Astrodienst Ephemeris Tables

from the year 150 BCE for 50 years

tropical geocentric zodiac

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

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris

Code D5EPX

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

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

JANUARY 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 4	7♉48'25	13♈ 1	26♉ 9	19°R52	5♍42	28♉41	28°R41	11°R 5	18♐33	10♓ 1	19°R15	19♉53	27♉ 2	n.a.	S 1
M 2	6 31 0	8°49'21	26° 3	27°11	19♐32	5°49	28°54	28♈41	11♊ 3	18°35	10° 2	19♉14	19°50	27° 9	n.a.	M 2
T 3	6 34 57	9°50'16	9♋31	28° 6	19°14	5°56	29° 9	28°D41	11° 0	18°37	10° 3	19°13	19°47	27°15	n.a.	T 3
W 4	6 38 54	10°51'09	23°26	28°52	18°59	6° 1	29°23	28°41	10°58	18°40	10° 4	19°12	19°44	27°22	n.a.	W 4
T 5	6 42 50	11°52'01	7♊49	29°30	18°46	6° 7	29°37	28°41	10°56	18°42	10° 5	19°11	19°41	27°28	n.a.	T 5
F 6	6 46 47	12°52'51	22°35	29°58	18°35	6°11	29°51	28°41	10°54	18°44	10° 5	19°11	19°37	27°35	n.a.	F 6
S 7	6 50 43	13°53'40	7♋39	0♒16	18°27	6°15	0♒ 5	28°42	10°52	18°46	10° 6	19°10	19°34	27°42	n.a.	S 7
S 8	6 54 40	14°54'27	22°51	0°R23	18°22	6°18	0°19	28°42	10°50	18°48	10° 7	19°D10	19°31	27°48	n.a.	S 8
M 9	6 58 36	15°55'13	8♌ 2	0°19	18°19	6°20	0°33	28°43	10°48	18°50	10° 8	19°10	19°28	27°55	n.a.	M 9
T 10	7 2 33	16°55'58	23° 2	0° 4	18°D18	6°22	0°47	28°44	10°46	18°52	10° 9	19°11	19°25	28° 2	n.a.	T 10
W11	7 6 30	17°56'41	7♍45	29♉39	18°20	6°23	1° 2	28°45	10°44	18°54	10°10	19°11	19°22	28° 8	n.a.	W11
T 12	7 10 26	18°57'23	22° 4	29° 4	18°24	6°R23	1°16	28°46	10°42	18°56	10°11	19°R11	19°18	28°15	n.a.	T 12
F 13	7 14 23	19°58'04	5♎58	28°19	18°31	6°23	1°30	28°47	10°40	18°58	10°12	19°11	19°15	28°22	n.a.	F 13
S 14	7 18 19	20°58'43	19°26	27°26	18°40	6°21	1°45	28°48	10°39	19° 0	10°13	19°D11	19°12	28°28	n.a.	S 14
S 15	7 22 16	21°59'21	2♏30	26°27	18°51	6°19	1°59	28°49	10°37	19° 2	10°14	19°11	19° 9	28°35	n.a.	S 15
M16	7 26 12	22°59'59	15°14	25°23	19° 4	6°16	2°13	28°51	10°35	19° 4	10°15	19°11	19° 6	28°42	n.a.	M16
T 17	7 30 9	24° 0'34	27°40	24°16	19°20	6°13	2°28	28°52	10°33	19° 6	10°16	19°11	19° 2	28°48	n.a.	T 17
W18	7 34 5	25° 1'09	9♐52	23° 7	19°37	6° 8	2°42	28°54	10°32	19° 8	10°17	19°12	18°59	28°55	n.a.	W18
T 19	7 38 2	26° 1'42	21°54	21°59	19°57	6° 3	2°56	28°56	10°30	19°10	10°18	19°13	18°56	29° 2	n.a.	T 19
F 20	7 41 59	27° 2'13	3♉48	20°53	20°18	5°57	3°11	28°58	10°29	19°12	10°19	19°13	18°53	29° 8	n.a.	F 20
S 21	7 45 55	28° 2'43	15°37	19°50	20°41	5°51	3°25	29° 0	10°27	19°14	10°21	19°R14	18°50	29°15	n.a.	S 21
S 22	7 49 52	29° 3'11	27°25	18°53	21° 6	5°43	3°40	29° 2	10°26	19°16	10°22	19°14	18°47	29°21	n.a.	S 22
M23	7 53 48	0♒ 3'37	9♒12	18° 1	21°33	5°35	3°54	29° 4	10°24	19°18	10°23	19°13	18°43	29°28	n.a.	M23
T 24	7 57 45	1° 4'01	21° 2	17°16	22° 1	5°26	4° 8	29° 7	10°23	19°19	10°24	19°12	18°40	29°35	n.a.	T 24
W25	8 1 41	2° 4'24	2♓56	16°37	22°31	5°16	4°23	29° 9	10°21	19°21	10°25	19°10	18°37	29°41	n.a.	W25
T 26	8 5 38	3° 4'44	14°56	16° 6	23° 2	5° 5	4°37	29°12	10°20	19°23	10°26	19° 8	18°34	29°48	n.a.	T 26
F 27	8 9 34	4° 5'03	27° 6	15°43	23°35	4°54	4°52	29°14	10°19	19°25	10°28	19° 6	18°31	29°55	n.a.	F 27
S 28	8 13 31	5° 5'19	9♈28	15°26	24° 9	4°42	5° 6	29°17	10°18	19°27	10°29	19° 4	18°28	0♒ 1	n.a.	S 28
S 29	8 17 28	6° 5'33	22° 6	15°17	24°45	4°29	5°21	29°20	10°16	19°28	10°30	19° 2	18°24	0° 8	n.a.	S 29
M30	8 21 24	7° 5'45	5♋ 2	15°D15	25°22	4°15	5°35	29°23	10°15	19°30	10°31	19°D 2	18°21	0°15	n.a.	M30
T 31	8 25 21	8♒ 5'55	18♋21	15♉19	26♐ 0	4♍ 1	5♒49	29♈26	10♊14	19♐32	10♓33	19♉ 2	18♉18	0♒21	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23s29	10n 2	5n16	21s20	0s11	17s10	6n11	12n41	3n24	21s29	0s50	8n57	2s20	22n29	0n 8	22s15	0n58	23s21	16s49	22s19	22s13	20s22			n.a.
M 2	23 25	15 3	5 15	20 54	0n 4	17 3	6 15	12 40	3 26	21 26	0 50	8 58	2 19	22 29	0 8	22 16	0 58	23 21	16 49	22 19	22 14	20 20			n.a.
T 3	23 21	19 31	4 58	20 28	0 19	16 58	6 20	12 39	3 27	21 23	0 50	8 58	2 19	22 29	0 8	22 16	0 58	23 20	16 49	22 19	22 14	20 17			n.a.
W 4	23 16	23 5	4 23	20 3	0 35	16 53	6 23	12 38	3 29	21 20	0 50	8 58	2 19	22 28	0 8	22 16	0 58	23 20	16 48	22 19	22 15	20 15			n.a.
T 5	23 11	25 19	3 30	19 39	0 52	16 49	6 26	12 38	3 31	21 17	0 50	8 59	2 19	22 28	0 8	22 16	0 58	23 19	16 48	22 19	22 15	20 13			n.a.
F 6	23 5	25 53	2 23	19 16	1 9	16 46	6 28	12 38	3 33	21 14	0 50	8 59	2 18	22 28	0 8	22 16	0 58	23 18	16 48	22 19	22 16	20 11			n.a.
S 7	22 59	24 33	1 4	18 55	1 27	16 44	6 30	12 38	3 35	21 11	0 50	8 59	2 18	22 28	0 8	22 16	0 58	23 18	16 47	22 20	22 16	20 9			n.a.
S 8	22 52	21 25	0s20	18 36	1 44	16 43	6 31	12 39	3 37	21 8	0 50	9 0	2 18	22 27	0 8	22 17	0 58	23 17	16 47	22 20	22 17	20 7			n.a.
M 9	22 45	16 49	1 43	18 20	2 2	16 42	6 31	12 40	3 38	21 5	0 51	9 0	2 17	22 27	0 8	22 17	0 58	23 16	16 47	22 20	22 17	20 4			n.a.
T 10	22 38	11 12	2 58	18 6	2 19	16 42	6 31	12 41	3 40	21 2	0 51	9 1	2 17	22 27	0 8	22 17	0 58	23 16	16 46	22 19	22 17	20 2			n.a.
W11	22 30	5 4	3 59	17 56	2 35	16 43	6 30	12 42	3 42	20 59	0 51	9 2	2 17	22 26	0 8	22 17	0 58	23 15	16 46	22 19	22 18	20 0			n.a.
T 12	22 21	1s 9	4 43	17 48	2 51	16 44	6 29	12 44	3 44	20 56	0 51	9 2	2 16	22 26	0 8	22 17	0 58	23 15	16 46	22 19	22 18	19 58			n.a.
F 13	22 13	7 7	5 10	17 43	3 5	16 46	6 28	12 46	3 46	20 53	0 51	9 3	2 16	22 26	0 8	22 17	0 58	23 14	16 46	22 19	22 19	19 56			n.a.
S 14	22 3	12 35	5 18	17 41	3 17	16 49	6 26	12 48	3 48	20 49	0 51	9 4	2 16	22 26	0 8	22 18	0 58	23 13	16 45	22 19	22 19	19 53			n.a.
S 15	21 54	17 19	5 10	17 42	3 28	16 52	6 23	12 50	3 49	20 46	0 51	9 4	2 15	22 25	0 8	22 18	0 58	23 13	16 45	22 19	22 20	19 51			n.a.
M16	21 44	21 8	4 46	17 45	3 37	16 56	6 21	12 53	3 51	20 43	0 51	9 5	2 15	22 25	0 8	22 18	0 58	23 12	16 45	22 19	22 20	19 49			n.a.
T 17	21 33	23 54	4 9	17 51	3 43	17 0	6 18	12 56	3 53	20 40	0 51	9 6	2 15	22 25	0 8	22 18	0 58	23 11	16 45	22 19	22 21	19 47			n.a.
W18	21 22	25 31	3 22	17 59	3 47	17 5	6 15	12 59	3 55	20 36	0 51	9 7	2 15	22 25	0 8	22 18	0 58	23 11	16 44	22 19	22 21	19 45			n.a.
T 19	21 11	25 54	2 26	18 8	3 49	17 10	6 11	13 3	3 56	20 33	0 51	9 8	2 14	22 24	0 8	22 18	0 58	23 10	16 44	22 19	22 22	19 42			n.a.
F 20	20 59	25 4	1 25	18 19	3 48	17 15	6 7	13 7	3 58	20 30	0 51	9 9	2 14	22 24	0 8	22 19	0 58	23 9	16 44	22 19	22 22	19 40			n.a.
S 21	20 47	23 7	0 20	18 31	3 45	17 21	6 3	13 11	4 0	20 27	0 51	9 10	2 14	22 24	0 8	22 19	0 58	23 9	16 44	22 19	22 22	19 38			n.a.
S 22	20 35	20 11	0n45	18 44	3 41	17 27	5 59	13 15	4 1	20 23	0 51	9 11	2 13	22 24	0 8	22 19	0 58	23 8	16 43	22 19	22 23	19 36			n.a.
M23	20 22	16 25	1 49	18 57	3 34	17 33	5 54	13 19	4 3	20 20	0 51	9 12	2 13	22 24	0 8	22 19	0 58	23 7	16 43	22 19	22 23	19 33			n.a.
T 24	20 9	12 0	2 48	19 11	3 26	17 39	5 50	13 24	4 4	20 16	0 51	9 13	2 13	22 23	0 8	22 19	0 58	23 7	16 43	22 19	22 24	19 31			n.a.
W25	19 55	7 8	3 39	19 24	3 17	17 46	5 45	13 29	4 6	20 13	0 51	9 14	2 12	22 23	0 8	22 19	0 58	23 6	16 43	22 20	22 24	19 29			n.a.
T 26	19 42	1 59	4 22	19 38	3 7	17 53	5 40	13 35	4 7	20 10	0 51	9 15	2 12	22 23	0 8	22 19	0 58	23 5	16 42	22 20	22 25	19 27			n.a.
F 27	19 27	3n19	4 53	19 52	2 56	17 59	5 34	13 40	4 9	20 6	0 52	9 17	2 12	22 23	0 8	22 19	0 58	23 5	16 42	22 20	22 25	19 24			n.a.
S 28	19 13	8 34	5 12	20 6	2 44	18 6	5 29	13 46	4 10	20 3	0 52	9 18	2 11	22 23	0 8	22 20	0 58	23 4	16 42	22 20	22 26	19 22			n.a.
S 29	18 58	13 34	5 16	20 19	2 32	18 13	5 23	13 52	4 11	19 59	0 52	9 19	2 11	22 23	0 8	22 20	0 58	23 3	16 42	22 21	22 26	19 20			n.a.
M30	18 43	18 7	5 4	20 32	2 19	18 20	5 18	13 58	4 13	19 56	0 52	9 20	2 11	22 22	0 8	22 20	0 58	23 3	16 42	22 21	22 26	19 18			n.a.
T 31	18s27	21n54	4n36	20s44	2n 7	18s27	5n12	14n 5	4n14	19s52	0s52	9n22	2s11	22n22	0n 8	22s20	0n58	23s 2	16s41	22s21	22s27	19s15			n.a.

Julian Day Number = 1666635.5, Delta T = 03h22m49s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'17, Lahiri = - 6°01'16 Julian Calendar 1 Jan. 150 BCE == Greg. Calendar 29 Dec. 151 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

FEBRUARY 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 29 17	9♒ 6'03	2♊ 3	15♑29	26♐39	3°R45	6♒ 4	29♈29	10°R13	19♐33	10♓34	19♑ 3	18♑15	0♒28	n.a.	W 1
T 2	8 33 14	10° 6'08	16°12	15°45	27°19	3♏30	6°18	29°32	10♊12	19°35	10°35	19° 4	18°12	0°35	n.a.	T 2
F 3	8 37 10	11° 6'12	0♋44	16° 6	28° 1	3°13	6°33	29°36	10°11	19°36	10°36	19° 6	18° 8	0°41	n.a.	F 3
S 4	8 41 7	12° 6'13	15°38	16°33	28°43	2°56	6°47	29°39	10°11	19°38	10°38	19°R 6	18° 5	0°48	n.a.	S 4
S 5	8 45 3	13° 6'12	0♌45	17° 4	29°27	2°38	7° 1	29°43	10°10	19°40	10°39	19° 6	18° 2	0°55	n.a.	S 5
M 6	8 49 0	14° 6'09	15°59	17°40	0♑11	2°20	7°16	29°46	10° 9	19°41	10°40	19° 4	17°59	1° 1	n.a.	M 6
T 7	8 52 57	15° 6'03	1♍ 9	18°20	0°57	2° 1	7°30	29°50	10° 8	19°43	10°42	19° 2	17°56	1° 8	n.a.	T 7
W 8	8 56 53	16° 5'56	16° 4	19° 4	1°43	1°42	7°45	29°54	10° 8	19°44	10°43	18°58	17°53	1°15	n.a.	W 8
T 9	9 0 50	17° 5'47	0♎38	19°51	2°30	1°22	7°59	29°58	10° 7	19°46	10°44	18°54	17°49	1°21	n.a.	T 9
F 10	9 4 46	18° 5'36	14°46	20°42	3°19	1° 1	8°13	0♉ 2	10° 7	19°47	10°46	18°50	17°46	1°28	n.a.	F 10
S 11	9 8 43	19° 5'23	28°24	21°36	4° 7	0°40	8°28	0° 6	10° 6	19°48	10°47	18°47	17°43	1°34	n.a.	S 11
S 12	9 12 39	20° 5'08	11♏35	22°33	4°57	0°19	8°42	0°10	10° 6	19°50	10°49	18°46	17°40	1°41	n.a.	S 12
M13	9 16 36	21° 4'52	24°20	23°33	5°48	29♌57	8°56	0°15	10° 5	19°51	10°50	18°D45	17°37	1°48	n.a.	M13
T 14	9 20 32	22° 4'34	6♐44	24°35	6°39	29°35	9°10	0°19	10° 5	19°52	10°51	18°46	17°34	1°54	n.a.	T 14
W15	9 24 29	23° 4'14	18°52	25°40	7°31	29°13	9°25	0°24	10° 5	19°54	10°53	18°48	17°30	2° 1	n.a.	W15
T 16	9 28 25	24° 3'52	0♑48	26°48	8°23	28°50	9°39	0°28	10° 4	19°55	10°54	18°49	17°27	2° 8	n.a.	T 16
F 17	9 32 22	25° 3'29	12°37	27°57	9°16	28°27	9°53	0°33	10° 4	19°56	10°56	18°51	17°24	2°14	n.a.	F 17
S 18	9 36 19	26° 3'03	24°23	29° 8	10°10	28° 4	10° 7	0°38	10° 4	19°57	10°57	18°R51	17°21	2°21	n.a.	S 18
S 19	9 40 15	27° 2'35	6♒10	0♒22	11° 4	27°41	10°21	0°42	10° 4	19°58	10°58	18°49	17°18	2°28	n.a.	S 19
M20	9 44 12	28° 2'05	18° 0	1°37	11°59	27°17	10°36	0°47	10°D 4	20° 0	11° 0	18°45	17°14	2°34	n.a.	M20
T 21	9 48 8	29° 1'34	29°56	2°55	12°54	26°54	10°50	0°52	10° 4	20° 1	11° 1	18°40	17°11	2°41	n.a.	T 21
W22	9 52 5	0♓ 0'59	11♓59	4°14	13°50	26°30	11° 4	0°57	10° 4	20° 2	11° 3	18°33	17° 8	2°48	n.a.	W22
T 23	9 56 1	1° 0'23	24°10	5°35	14°46	26° 7	11°18	1° 3	10° 4	20° 3	11° 4	18°25	17° 5	2°54	n.a.	T 23
F 24	9 59 58	1°59'45	6♈32	6°57	15°43	25°44	11°32	1° 8	10° 5	20° 4	11° 6	18°17	17° 2	3° 1	n.a.	F 24
S 25	10 3 54	2°59'04	19° 5	8°21	16°40	25°21	11°46	1°13	10° 5	20° 5	11° 7	18°10	16°59	3° 8	n.a.	S 25
S 26	10 7 51	3°58'21	1♉51	9°47	17°38	24°58	12° 0	1°19	10° 5	20° 6	11° 8	18° 4	16°55	3°14	n.a.	S 26
M27	10 11 48	4°57'35	14°51	11°14	18°36	24°35	12°13	1°24	10° 5	20° 7	11°10	18° 0	16°52	3°21	n.a.	M27
T 28	10 15 44	5♓56'47	28♉ 8	12♒43	19♑35	24♌13	12♒27	1♉30	10♊ 6	20♐ 7	11♓11	17♑58	16♑49	3♒28	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s11	24n35	3n52	20s55	1n54	18s34	5n 6	14n11	4n15	19s49	0s52	9n23	2s10	22n22	0n 8	22s20	0n58	23s 1	16s41	22s21	22s27	19s13		n.a.
T 2	17 55	25 50	2 52	21 6	1 41	18 41	5 0	14 18	4 16	19 45	0 52	9 25	2 10	22 22	0 8	22 20	0 58	23 1	16 41	22 20	22 28	19 11		n.a.
F 3	17 38	25 22	1 40	21 16	1 28	18 48	4 54	14 25	4 17	19 41	0 52	9 26	2 10	22 22	0 8	22 20	0 58	23 0	16 41	22 20	22 28	19 8		n.a.
S 4	17 22	23 6	0 19	21 26	1 16	18 54	4 48	14 32	4 18	19 38	0 52	9 28	2 9	22 22	0 8	22 20	0 58	22 59	16 41	22 20	22 29	19 6		n.a.
S 5	17 5	19 11	1s 4	21 34	1 3	19 1	4 42	14 40	4 19	19 34	0 52	9 29	2 9	22 22	0 8	22 21	0 58	22 59	16 41	22 20	22 29	19 4		n.a.
M 6	16 47	13 57	2 23	21 41	0 51	19 7	4 36	14 47	4 19	19 31	0 52	9 31	2 9	22 21	0 8	22 21	0 58	22 58	16 40	22 20	22 29	19 2		n.a.
T 7	16 30	7 54	3 31	21 48	0 39	19 13	4 29	14 55	4 20	19 27	0 52	9 32	2 9	22 21	0 8	22 21	0 58	22 57	16 40	22 21	22 30	18 59		n.a.
W 8	16 12	1 30	4 24	21 53	0 27	19 19	4 23	15 2	4 21	19 23	0 53	9 34	2 8	22 21	0 8	22 21	0 58	22 57	16 40	22 21	22 30	18 57		n.a.
T 9	15 53	4s48	4 58	21 58	0 16	19 25	4 17	15 10	4 21	19 20	0 53	9 36	2 8	22 21	0 8	22 21	0 58	22 56	16 40	22 22	22 31	18 55		n.a.
F 10	15 35	10 41	5 13	22 1	0 5	19 30	4 10	15 18	4 21	19 16	0 53	9 37	2 8	22 21	0 8	22 21	0 58	22 55	16 40	22 22	22 31	18 52		n.a.
S 11	15 16	15 50	5 9	22 3	0s 5	19 35	4 4	15 26	4 22	19 12	0 53	9 39	2 8	22 21	0 8	22 21	0 58	22 55	16 40	22 23	22 32	18 50		n.a.
S 12	14 57	20 3	4 49	22 4	0 16	19 40	3 58	15 34	4 22	19 9	0 53	9 41	2 7	22 21	0 8	22 21	0 58	22 54	16 40	22 23	22 32	18 48		n.a.
M13	14 38	23 12	4 16	22 3	0 25	19 44	3 51	15 42	4 22	19 5	0 53	9 42	2 7	22 21	0 8	22 21	0 58	22 53	16 39	22 23	22 32	18 45		n.a.
T 14	14 19	25 8	3 30	22 1	0 35	19 48	3 45	15 50	4 22	19 1	0 53	9 44	2 7	22 21	0 8	22 21	0 58	22 53	16 39	22 23	22 33	18 43		n.a.
W15	13 59	25 51	2 37	21 58	0 44	19 52	3 38	15 57	4 22	18 57	0 53	9 46	2 6	22 21	0 8	22 21	0 58	22 52	16 39	22 23	22 33	18 41		n.a.
T 16	13 39	25 20	1 37	21 54	0 53	19 55	3 32	16 5	4 22	18 54	0 53	9 48	2 6	22 21	0 8	22 22	0 58	22 51	16 39	22 22	22 34	18 38		n.a.
F 17	13 19	23 40	0 34	21 48	1 1	19 58	3 25	16 13	4 21	18 50	0 53	9 50	2 6	22 21	0 8	22 22	0 58	22 51	16 39	22 22	22 34	18 36		n.a.
S 18	12 59	20 59	0n30	21 41	1 9	20 1	3 19	16 21	4 21	18 46	0 54	9 52	2 6	22 21	0 8	22 22	0 58	22 50	16 39	22 22	22 34	18 34		n.a.
S 19	12 38	17 27	1 33	21 33	1 17	20 3	3 12	16 29	4 20	18 42	0 54	9 54	2 5	22 21	0 8	22 22	0 58	22 49	16 39	22 23	22 35	18 31		n.a.
M20	12 18	13 12	2 32	21 23	1 24	20 5	3 6	16 36	4 20	18 39	0 54	9 56	2 5	22 21	0 8	22 22	0 58	22 49	16 39	22 23	22 35	18 29		n.a.
T 21	11 57	8 26	3 25	21 12	1 30	20 6	2 59	16 44	4 19	18 35	0 54	9 58	2 5	22 21	0 8	22 22	0 58	22 48	16 39	22 24	22 36	18 27		n.a.
W22	11 36	3 19	4 9	20 59	1 37	20 7	2 53	16 51	4 18	18 31	0 54	10 0	2 5	22 21	0 8	22 22	0 58	22 48	16 39	22 25	22 36	18 24		n.a.
T 23	11 14	1n58	4 42	20 45	1 42	20 7	2 47	16 59	4 17	18 27	0 54	10 2	2 4	22 21	0 8	22 22	0 58	22 47	16 38	22 26	22 37	18 22		n.a.
F 24	10 53	7 14	5 2	20 29	1 48	20 7	2 40	17 6	4 16	18 23	0 54	10 4	2 4	22 21	0 8	22 22	0 58	22 46	16 38	22 27	22 37	18 20		n.a.
S 25	10 32	12 18	5 9	20 12	1 53	20 7	2 34	17 13	4 15	18 20	0 54	10 6	2 4	22 21	0 8	22 22	0 58	22 46	16 38	22 28	22 37	18 17		n.a.
S 26	10 10	16 56	5 0	19 53	1 57	20 6	2 28	17 19	4 14	18 16	0 54	10 8	2 4	22 21	0 8	22 22	0 58	22 45	16 38	22 29	22 38	18 15		n.a.
M27	9 48	20 52	4 36	19 33	2 2	20 4	2 21	17 26	4 12	18 12	0 55	10 10	2 4	22 21	0 8	22 22	0 58	22 44	16 38	22 29	22 38	18 12		n.a.
T 28	9s26	23n48	3n56	19s11	2s 5	20s 2	2n15	17n32	4n11	18s 8	0s55	10n12	2s 3	22n21	0n 8	22s22	0n58	22s44	16s38	22s30	22s39	18s10		n.a.

Julian Day Number = 1666666.5, Delta T = 03h22m48s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'12, Lahiri = - 6°01'12 Julian Calendar 1 Feb. 150 BCE == Greg. Calendar 29 Jan. 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

MARCH 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 19 41	6♓55'57	11♊43	14♒13	20♑34	23°R50	12♒41	1♉35	10♊ 6	20♐ 8	11♓13	17°D57	16♑46	3♒34	n.a.	W 1
T 2	10 23 37	7°55'04	25°38	15°45	21°33	23♌29	12°55	1°41	10° 7	20° 9	11°14	17♑58	16°43	3°41	n.a.	T 2
F 3	10 27 34	8°54'09	9♋53	17°18	22°33	23° 7	13° 9	1°47	10° 7	20°10	11°16	17°59	16°39	3°47	n.a.	F 3
S 4	10 31 30	9°53'12	24°27	18°53	23°33	22°47	13°22	1°52	10° 8	20°11	11°17	17°R59	16°36	3°54	n.a.	S 4
S 5	10 35 27	10°52'12	9♌16	20°29	24°33	22°26	13°36	1°58	10° 9	20°11	11°19	17°58	16°33	4° 1	n.a.	S 5
M 6	10 39 23	11°51'09	24°15	22° 7	25°34	22° 6	13°49	2° 4	10° 9	20°12	11°20	17°53	16°30	4° 7	n.a.	M 6
T 7	10 43 20	12°50'05	9♍15	23°46	26°35	21°47	14° 3	2°10	10°10	20°13	11°22	17°47	16°27	4°14	n.a.	T 7
W 8	10 47 17	13°48'58	24° 6	25°27	27°36	21°28	14°16	2°16	10°11	20°13	11°23	17°39	16°24	4°21	n.a.	W 8
T 9	10 51 13	14°47'49	8♎42	27° 9	28°38	21°10	14°30	2°22	10°12	20°14	11°25	17°30	16°20	4°27	n.a.	T 9
F 10	10 55 10	15°46'38	22°54	28°52	29°40	20°52	14°43	2°29	10°13	20°15	11°26	17°21	16°17	4°34	n.a.	F 10
S 11	10 59 6	16°45'25	6♏38	0♓37	0♒42	20°35	14°57	2°35	10°14	20°15	11°27	17°13	16°14	4°41	n.a.	S 11
S 12	11 3 3	17°44'11	19°55	2°24	1°44	20°19	15°10	2°41	10°15	20°16	11°29	17° 8	16°11	4°47	n.a.	S 12
M13	11 6 59	18°42'55	2♐45	4°12	2°47	20° 3	15°23	2°48	10°16	20°16	11°30	17° 4	16° 8	4°54	n.a.	M13
T 14	11 10 56	19°41'36	15°12	6° 2	3°50	19°48	15°36	2°54	10°17	20°17	11°32	17°D 3	16° 5	5° 1	n.a.	T 14
W15	11 14 52	20°40'17	27°21	7°53	4°54	19°34	15°49	3° 1	10°18	20°17	11°33	17° 3	16° 1	5° 7	n.a.	W15
T 16	11 18 49	21°38'55	9♑17	9°45	5°57	19°20	16° 2	3° 7	10°20	20°17	11°35	17° 4	15°58	5°14	n.a.	T 16
F 17	11 22 45	22°37'32	21° 6	11°40	7° 1	19° 7	16°15	3°14	10°21	20°18	11°36	17°R 4	15°55	5°21	n.a.	F 17
S 18	11 26 42	23°36'06	2♒52	13°35	8° 5	18°55	16°28	3°20	10°22	20°18	11°38	17° 2	15°52	5°27	n.a.	S 18
S 19	11 30 39	24°34'39	14°41	15°33	9° 9	18°44	16°41	3°27	10°24	20°18	11°39	16°59	15°49	5°34	n.a.	S 19
M20	11 34 35	25°33'10	26°35	17°31	10°13	18°33	16°54	3°34	10°25	20°18	11°40	16°53	15°45	5°41	n.a.	M20
T 21	11 38 32	26°31'39	8♓39	19°31	11°18	18°24	17° 7	3°41	10°27	20°19	11°42	16°44	15°42	5°47	n.a.	T 21
W22	11 42 28	27°30'06	20°53	21°33	12°23	18°15	17°19	3°48	10°28	20°19	11°43	16°33	15°39	5°54	n.a.	W22
T 23	11 46 25	28°28'32	3♈20	23°36	13°28	18° 7	17°32	3°54	10°30	20°19	11°45	16°21	15°36	6° 1	n.a.	T 23
F 24	11 50 21	29°26'55	15°58	25°40	14°33	17°59	17°45	4° 1	10°31	20°19	11°46	16° 8	15°33	6° 7	n.a.	F 24
S 25	11 54 18	0♈25'16	28°49	27°46	15°38	17°53	17°57	4° 8	10°33	20°19	11°47	15°56	15°30	6°14	n.a.	S 25
S 26	11 58 14	1°23'36	11♉52	29°52	16°44	17°47	18° 9	4°15	10°35	20°19	11°49	15°46	15°26	6°20	n.a.	S 26
M27	12 2 11	2°21'53	25° 7	1♈59	17°49	17°42	18°22	4°23	10°37	20°R19	11°50	15°39	15°23	6°27	n.a.	M27
T 28	12 6 8	3°20'08	8♊33	4° 7	18°55	17°38	18°34	4°30	10°38	20°19	11°52	15°35	15°20	6°34	n.a.	T 28
W29	12 10 4	4°18'21	22°11	6°16	20° 1	17°35	18°46	4°37	10°40	20°19	11°53	15°33	15°17	6°40	n.a.	W29
T 30	12 14 1	5°16'32	6♋ 2	8°25	21° 7	17°32	18°58	4°44	10°42	20°19	11°54	15°D32	15°14	6°47	n.a.	T 30
F 31	12 17 57	6♈14'41	20♋ 6	10♈34	22♒14	17♌31	19♒10	4♉51	10♊44	20♐19	11♓56	15°R32	15♑11	6♒54	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	9s 4	25n28	3n 3	18s48	2s 8	20s 0	2n 9	17n38	4n 9	18s 4	0s55	10n14	2s 3	22n21	0n 8	22s22	0n58	22s43	16s38	22s30	22s39	18s 8			n.a.
T 2	8 42	25 36	1 58	18 23	2 11	19 57	2 3	17 44	4 7	18 1	0 55	10 17	2 3	22 21	0 8	22 22	0 58	22 43	16 38	22 30	22 39	18 5			n.a.
F 3	8 19	24 4	0 44	17 56	2 13	19 53	1 57	17 49	4 6	17 57	0 55	10 19	2 3	22 21	0 8	22 22	0 58	22 42	16 38	22 29	22 40	18 3			n.a.
S 4	7 57	20 54	0s35	17 28	2 15	19 49	1 50	17 55	4 4	17 53	0 55	10 21	2 2	22 21	0 8	22 22	0 59	22 41	16 38	22 29	22 40	18 1			n.a.
S 5	7 34	16 20	1 52	16 59	2 17	19 45	1 44	18 0	4 2	17 49	0 55	10 23	2 2	22 21	0 8	22 22	0 59	22 41	16 38	22 30	22 41	17 58			n.a.
M 6	7 12	10 44	3 2	16 28	2 18	19 40	1 38	18 5	4 0	17 45	0 56	10 25	2 2	22 22	0 8	22 22	0 59	22 40	16 38	22 30	22 41	17 56			n.a.
T 7	6 49	4 30	4 0	15 55	2 18	19 34	1 33	18 9	3 58	17 41	0 56	10 28	2 2	22 22	0 8	22 22	0 59	22 40	16 38	22 31	22 41	17 53			n.a.
W 8	6 26	1s55	4 40	15 21	2 18	19 28	1 27	18 13	3 56	17 38	0 56	10 30	2 2	22 22	0 8	22 23	0 59	22 39	16 38	22 32	22 42	17 51			n.a.
T 9	6 3	8 6	5 2	14 45	2 17	19 21	1 21	18 17	3 54	17 34	0 56	10 32	2 1	22 22	0 8	22 23	0 59	22 39	16 38	22 33	22 42	17 49			n.a.
F 10	5 40	13 41	5 4	14 7	2 16	19 14	1 15	18 21	3 51	17 30	0 56	10 35	2 1	22 22	0 8	22 23	0 59	22 38	16 38	22 34	22 42	17 46			n.a.
S 11	5 17	18 25	4 48	13 28	2 15	19 6	1 9	18 24	3 49	17 26	0 56	10 37	2 1	22 22	0 8	22 23	0 59	22 37	16 38	22 35	22 43	17 44			n.a.
S 12	4 54	22 3	4 17	12 48	2 12	18 58	1 4	18 27	3 47	17 22	0 56	10 39	2 1	22 22	0 8	22 23	0 59	22 37	16 38	22 36	22 43	17 41			n.a.
M13	4 31	24 27	3 34	12 5	2 10	18 49	0 58	18 30	3 44	17 18	0 57	10 42	2 0	22 23	0 8	22 23	0 59	22 36	16 38	22 37	22 44	17 39			n.a.
T 14	4 8	25 34	2 42	11 22	2 7	18 40	0 53	18 33	3 42	17 15	0 57	10 44	2 0	22 23	0 8	22 23	0 59	22 36	16 38	22 37	22 44	17 37			n.a.
W15	3 44	25 25	1 43	10 36	2 3	18 30	0 47	18 35	3 39	17 11	0 57	10 47	2 0	22 23	0 8	22 23	0 59	22 35	16 38	22 37	22 44	17 34			n.a.
T 16	3 21	24 4	0 42	9 50	1 59	18 19	0 42	18 37	3 37	17 7	0 57	10 49	2 0	22 23	0 8	22 23	0 59	22 35	16 39	22 37	22 45	17 32			n.a.
F 17	2 58	21 41	0n22	9 1	1 54	18 8	0 37	18 39	3 34	17 3	0 57	10 51	2 0	22 23	0 8	22 23	0 59	22 34	16 39	22 37	22 45	17 29			n.a.
S 18	2 34	18 23	1 23	8 11	1 49	17 57	0 31	18 40	3 31	16 59	0 57	10 54	2 0	22 23	0 8	22 23	0 59	22 34	16 39	22 37	22 46	17 27			n.a.
S 19	2 11	14 22	2 22	7 20	1 43	17 45	0 26	18 41	3 29	16 56	0 58	10 56	1 59	22 24	0 8	22 23	0 59	22 33	16 39	22 37	22 46	17 24			n.a.
M20	1 47	9 45	3 14	6 28	1 36	17 32	0 21	18 42	3 26	16 52	0 58	10 59	1 59	22 24	0 8	22 23	0 59	22 33	16 39	22 38	22 46	17 22			n.a.
T 21	1 24	4 45	3 58	5 34	1 30	17 20	0 16	18 42	3 23	16 48	0 58	11 1	1 59	22 24	0 8	22 23	0 59	22 32	16 39	22 39	22 47	17 19			n.a.
W22	1 0	0n31	4 32	4 39	1 22	17 6	0 11	18 43	3 21	16 44	0 58	11 4	1 59	22 24	0 8	22 23	0 59	22 32	16 39	22 41	22 47	17 17			n.a.
T 23	0 37	5 49	4 54	3 42	1 14	16 52	0 7	18 43	3 18	16 41	0 58	11 6	1 59	22 25	0 8	22 23	0 59	22 31	16 39	22 42	22 47	17 15			n.a.
F 24	0 13	10 59	5 1	2 45	1 6	16 38	0 2	18 42	3 15	16 37	0 58	11 9	1 58	22 25	0 8	22 23	0 59	22 31	16 39	22 44	22 48	17 12			n.a.
S 25	0n10	15 45	4 54	1 46	0 57	16 23	0s 3	18 42	3 13	16 33	0 59	11 11	1 58	22 25	0 8	22 23	0 59	22 30	16 39	22 45	22 48	17 10			n.a.
S 26	0 34	19 52	4 31	0 47	0 48	16 7	0 7	18 41	3 10	16 30	0 59	11 14	1 58	22 25	0 8	22 23	0 59	22 30	16 39	22 46	22 49	17 7			n.a.
M27	0 57	23 2	3 54	0n13	0 38	15 51	0 12	18 40	3 7	16 26	0 59	11 17	1 58	22 26	0 8	22 23	0 59	22 30	16 40	22 47	22 49	17 5			n.a.
T 28	1 20	24 59	3 3	1 13	0 28	15 35	0 16	18 39	3 4	16 22	0 59	11 19	1 58	22 26	0 8	22 22	0 59	22 29	16 40	22 48	22 49	17 2			n.a.
W29	1 44	25 29	2 0	2 14	0 18	15 18	0 21	18 37	3 2	16 19	0 59	11 22	1 58	22 26	0 8	22 22	0 59	22 29	16 40	22 48	22 50	17 0			n.a.
T 30	2 7	24 25	0 50	3 15	0 8	15 1	0 25	18 35	2 59	16 15	1 0	11 24	1 58	22 26	0 8	22 22	0 59	22 28	16 40	22 48	22 50	16 57			n.a.
F 31	2n30	21n47	0s24	4n16	0n 3	14s43	0s29	18n33	2n56	16s11	1s 0	11n27	1s57	22n27	0n 8	22s22	0n59	22s28	16s40	22s48	22s50	16s55			n.a.

Julian Day Number = 1666694.5, Delta T = 03h22m47s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'09, Lahiri = - 6°01'08 Julian Calendar 1 March 150 BCE == Greg. Calendar 26 Feb. 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

APRIL 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 21 54	7♈12'48	4♌23	12♈42	23♒20	17°R30	19♒22	4♉59	10♊46	20°R19	11♓57	15°R31	15♑ 7	7♒ 0	n.a.	S 1
S 2	12 25 50	8°10'52	18°51	14°50	24°27	17°D29	19°34	5° 6	10°48	20♐18	11°58	15♑29	15° 4	7° 7	n.a.	S 2
M 3	12 29 47	9° 8'54	3♍26	16°58	25°33	17♌30	19°46	5°13	10°50	20°18	12° 0	15°23	15° 1	7°14	n.a.	M 3
T 4	12 33 43	10° 6'55	18° 3	19° 4	26°40	17°31	19°58	5°21	10°52	20°18	12° 1	15°15	14°58	7°20	n.a.	T 4
W 5	12 37 40	11° 4'53	2♎35	21° 9	27°47	17°33	20° 9	5°28	10°54	20°18	12° 2	15° 4	14°55	7°27	n.a.	W 5
T 6	12 41 36	12° 2'50	16°56	23°12	28°54	17°36	20°21	5°36	10°57	20°17	12° 4	14°53	14°51	7°34	n.a.	T 6
F 7	12 45 33	13° 0'46	0♏58	25°13	0♓ 1	17°40	20°32	5°43	10°59	20°17	12° 5	14°41	14°48	7°40	n.a.	F 7
S 8	12 49 30	13°58'39	14°38	27°12	1° 9	17°44	20°43	5°51	11° 1	20°17	12° 6	14°31	14°45	7°47	n.a.	S 8
S 9	12 53 26	14°56'31	27°53	29° 8	2°16	17°49	20°55	5°58	11° 4	20°16	12° 8	14°23	14°42	7°54	n.a.	S 9
M10	12 57 23	15°54'22	10♐44	1♉ 2	3°24	17°54	21° 6	6° 6	11° 6	20°16	12° 9	14°17	14°39	8° 0	n.a.	M10
T 11	13 1 19	16°52'12	23°12	2°53	4°31	18° 1	21°17	6°13	11° 8	20°15	12°10	14°14	14°36	8° 7	n.a.	T 11
W12	13 5 16	17°50'00	5♑23	4°40	5°39	18° 8	21°28	6°21	11°11	20°15	12°11	14°13	14°32	8°14	n.a.	W12
T 13	13 9 12	18°47'47	17°21	6°25	6°47	18°15	21°39	6°28	11°13	20°14	12°13	14°13	14°29	8°20	n.a.	T 13
F 14	13 13 9	19°45'33	29°12	8° 7	7°55	18°23	21°49	6°36	11°16	20°14	12°14	14°12	14°26	8°27	n.a.	F 14
S 15	13 17 5	20°43'17	11♒ 0	9°45	9° 3	18°32	22° 0	6°44	11°18	20°13	12°15	14°11	14°23	8°34	n.a.	S 15
S 16	13 21 2	21°41'00	22°51	11°20	10°12	18°42	22°10	6°52	11°21	20°13	12°16	14° 8	14°20	8°40	n.a.	S 16
M17	13 24 59	22°38'42	4♓51	12°51	11°20	18°52	22°21	6°59	11°24	20°12	12°17	14° 2	14°16	8°47	n.a.	M17
T 18	13 28 55	23°36'22	17° 1	14°19	12°28	19° 3	22°31	7° 7	11°26	20°11	12°18	13°53	14°13	8°54	n.a.	T 18
W19	13 32 52	24°34'01	29°26	15°44	13°37	19°14	22°41	7°15	11°29	20°10	12°20	13°43	14°10	9° 0	n.a.	W19
T 20	13 36 48	25°31'39	12♈ 7	17° 5	14°45	19°26	22°52	7°22	11°32	20°10	12°21	13°31	14° 7	9° 7	n.a.	T 20
F 21	13 40 45	26°29'16	25° 4	18°22	15°54	19°39	23° 2	7°30	11°34	20° 9	12°22	13°18	14° 4	9°14	n.a.	F 21
S 22	13 44 41	27°26'52	8♉15	19°35	17° 3	19°52	23°11	7°38	11°37	20° 8	12°23	13° 6	14° 1	9°20	n.a.	S 22
S 23	13 48 38	28°24'26	21°41	20°45	18°12	20° 5	23°21	7°46	11°40	20° 7	12°24	12°57	13°57	9°27	n.a.	S 23
M24	13 52 34	29°21'59	5♊17	21°51	19°21	20°19	23°31	7°54	11°43	20° 6	12°25	12°49	13°54	9°34	n.a.	M24
T 25	13 56 31	0♉19'30	19° 2	22°53	20°30	20°34	23°40	8° 2	11°46	20° 6	12°26	12°45	13°51	9°40	n.a.	T 25
W26	14 0 28	1°17'00	2♋55	23°51	21°39	20°49	23°50	8° 9	11°49	20° 5	12°27	12°43	13°48	9°47	n.a.	W26
T 27	14 4 24	2°14'29	16°55	24°45	22°48	21° 5	23°59	8°17	11°52	20° 4	12°28	12°D43	13°45	9°54	n.a.	T 27
F 28	14 8 21	3°11'56	0♌59	25°35	23°57	21°22	24° 8	8°25	11°55	20° 3	12°29	12°R43	13°42	10° 0	n.a.	F 28
S 29	14 12 17	4° 9'22	15° 8	26°20	25° 6	21°38	24°17	8°33	11°58	20° 2	12°30	12°43	13°38	10° 7	n.a.	S 29
S 30	14 16 14	5♉ 6'46	29♌21	27♉ 2	26♓16	21♌56	24♒26	8♉41	12♊ 1	20♐ 1	12♓31	12♑40	13♑35	10♒14	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n54	17n48	1s38	5n17	0n14	14s25	0s33	18n31	2n53	16s 8	1s 0	11n29	1s57	22n27	0n 8	22s22	0n59	22s27	16s40	22s48	22s51	16s52		n.a.
S 2	3 17	12 43	2 46	6 17	0 25	14 6	0 37	18 28	2 51	16 4	1 0	11 32	1 57	22 27	0 8	22 22	0 59	22 27	16 40	22 48	22 51	16 50		n.a.
M 3	3 40	6 53	3 44	7 17	0 35	13 47	0 41	18 26	2 48	16 1	1 0	11 35	1 57	22 28	0 8	22 22	0 59	22 27	16 41	22 49	22 51	16 47		n.a.
T 4	4 3	0 40	4 28	8 16	0 46	13 28	0 45	18 23	2 45	15 57	1 0	11 37	1 57	22 28	0 8	22 22	0 59	22 26	16 41	22 50	22 52	16 45		n.a.
W 5	4 26	5s31	4 54	9 13	0 57	13 8	0 48	18 19	2 42	15 53	1 1	11 40	1 57	22 28	0 8	22 22	0 59	22 26	16 41	22 51	22 52	16 43		n.a.
T 6	4 49	11 20	5 0	10 9	1 7	12 48	0 52	18 16	2 40	15 50	1 1	11 42	1 57	22 29	0 8	22 22	0 59	22 26	16 41	22 52	22 53	16 40		n.a.
F 7	5 12	16 26	4 49	11 3	1 17	12 27	0 55	18 12	2 37	15 46	1 1	11 45	1 56	22 29	0 8	22 22	0 59	22 25	16 41	22 54	22 53	16 38		n.a.
S 8	5 34	20 33	4 21	11 56	1 26	12 6	0 59	18 8	2 34	15 43	1 1	11 48	1 56	22 29	0 8	22 22	0 59	22 25	16 41	22 55	22 53	16 35		n.a.
S 9	5 57	23 28	3 39	12 46	1 35	11 45	1 2	18 4	2 32	15 40	1 2	11 50	1 56	22 29	0 8	22 22	0 59	22 25	16 42	22 56	22 54	16 33		n.a.
M10	6 20	25 4	2 47	13 35	1 44	11 23	1 5	18 0	2 29	15 36	1 2	11 53	1 56	22 30	0 8	22 22	0 59	22 24	16 42	22 56	22 54	16 30		n.a.
T 11	6 42	25 21	1 49	14 21	1 52	11 1	1 8	17 56	2 27	15 33	1 2	11 56	1 56	22 30	0 8	22 22	0 59	22 24	16 42	22 57	22 54	16 28		n.a.
W12	7 4	24 23	0 47	15 6	1 59	10 39	1 11	17 51	2 24	15 29	1 2	11 58	1 56	22 31	0 8	22 22	0 59	22 24	16 42	22 57	22 55	16 25		n.a.
T 13	7 27	22 18	0n17	15 47	2 6	10 16	1 14	17 46	2 22	15 26	1 2	12 1	1 56	22 31	0 8	22 22	0 59	22 23	16 42	22 57	22 55	16 23		n.a.
F 14	7 49	19 16	1 19	16 27	2 12	9 53	1 17	17 41	2 19	15 23	1 3	12 3	1 56	22 31	0 8	22 22	0 59	22 23	16 43	22 57	22 55	16 20		n.a.
S 15	8 11	15 29	2 17	17 4	2 17	9 30	1 20	17 36	2 16	15 19	1 3	12 6	1 55	22 32	0 8	22 22	0 59	22 23	16 43	22 57	22 56	16 17		n.a.
S 16	8 33	11 4	3 9	17 38	2 21	9 6	1 23	17 31	2 14	15 16	1 3	12 9	1 55	22 32	0 8	22 22	0 59	22 23	16 43	22 57	22 56	16 15		n.a.
M17	8 54	6 13	3 54	18 10	2 25	8 42	1 25	17 25	2 12	15 13	1 3	12 11	1 55	22 32	0 8	22 22	0 59	22 22	16 43	22 58	22 56	16 12		n.a.
T 18	9 16	1 4	4 29	18 40	2 28	8 18	1 27	17 19	2 9	15 10	1 3	12 14	1 55	22 33	0 8	22 21	0 59	22 22	16 44	22 59	22 57	16 10		n.a.
W19	9 38	4n13	4 52	19 7	2 30	7 54	1 30	17 14	2 7	15 7	1 4	12 17	1 55	22 33	0 8	22 21	0 59	22 22	16 44	23 0	22 57	16 7		n.a.
T 20	9 59	9 27	5 1	19 32	2 31	7 29	1 32	17 7	2 4	15 4	1 4	12 19	1 55	22 33	0 8	22 21	1 0	22 22	16 44	23 1	22 57	16 5		n.a.
F 21	10 20	14 22	4 55	19 55	2 31	7 4	1 34	17 1	2 2	15 0	1 4	12 22	1 55	22 34	0 8	22 21	1 0	22 21	16 44	23 2	22 58	16 2		n.a.
S 22	10 41	18 43	4 33	20 15	2 31	6 39	1 36	16 55	2 0	14 57	1 4	12 24	1 55	22 34	0 8	22 21	1 0	22 21	16 45	23 4	22 58	16 0		n.a.
S 23	11 2	22 11	3 56	20 33	2 29	6 13	1 38	16 48	1 57	14 54	1 5	12 27	1 55	22 35	0 8	22 21	1 0	22 21	16 45	23 5	22 58	15 57		n.a.
M24	11 22	24 27	3 5	20 48	2 27	5 48	1 40	16 41	1 55	14 51	1 5	12 30	1 55	22 35	0 8	22 21	1 0	22 21	16 45	23 5	22 59	15 55		n.a.
T 25	11 43	25 17	2 2	21 1	2 24	5 22	1 42	16 35	1 53	14 48	1 5	12 32	1 55	22 35	0 8	22 21	1 0	22 21	16 45	23 6	22 59	15 52		n.a.
W26	12 3	24 33	0 52	21 12	2 20	4 56	1 43	16 27	1 50	14 45	1 5	12 35	1 54	22 36	0 8	22 21	1 0	22 20	16 46	23 6	22 59	15 50		n.a.
T 27	12 23	22 16	0s22	21 21	2 15	4 30	1 45	16 20	1 48	14 43	1 6	12 38	1 54	22 36	0 8	22 21	1 0	22 20	16 46	23 6	23 0	15 47		n.a.
F 28	12 43	18 37	1 36	21 28	2 9	4 3	1 46	16 13	1 46	14 40	1 6	12 40	1 54	22 37	0 8	22 21	1 0	22 20	16 46	23 6	23 0	15 45		n.a.
S 29	13 3	13 53	2 43	21 32	2 2	3 37	1 48	16 5	1 44	14 37	1 6	12 43	1 54	22 37	0 8	22 21	1 0	22 20	16 46	23 6	23 0	15 42		n.a.
S 30	13n22	8n23	3s41	21n35	1n55	3s10	1s49	15n57	1n41	14s34	1s 6	12n45	1s54	22n37	0n 8	22s21	1n 0	22s20	16s47	23s 6	23s 1	15s39		n.a.

Julian Day Number = 1666725.5, Delta T = 03h22m46s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'04, Lahiri = - 6°01'04 Julian Calendar 1 Apr. 150 BCE == Greg. Calendar 29 March 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

MAY 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 20 10	6♉ 4'09	13♍34	27♉39	27♓25	22♌13	24♒35	8♉49	12♊ 4	20°R 0	12♓32	12°R36	13♑32	10♒20	n.a.	M 1
T 2	14 24 7	7° 1'30	27°46	28°12	28°35	22°31	24°44	8°57	12° 7	19♐59	12°33	12♑29	13°29	10°27	n.a.	T 2
W 3	14 28 3	7°58'51	11♎52	28°40	29°44	22°50	24°52	9° 5	12°10	19°58	12°34	12°20	13°26	10°33	n.a.	W 3
T 4	14 32 0	8°56'10	25°48	29° 4	0♈54	23° 9	25° 1	9°12	12°13	19°57	12°35	12°10	13°22	10°40	n.a.	T 4
F 5	14 35 57	9°53'28	9♏29	29°23	2° 4	23°29	25° 9	9°20	12°16	19°55	12°36	12° 0	13°19	10°47	n.a.	F 5
S 6	14 39 53	10°50'46	22°53	29°38	3°13	23°49	25°17	9°28	12°19	19°54	12°37	11°51	13°16	10°53	n.a.	S 6
S 7	14 43 50	11°48'02	5♐57	29°48	4°23	24° 9	25°25	9°36	12°23	19°53	12°37	11°44	13°13	11° 0	n.a.	S 7
M 8	14 47 46	12°45'18	18°41	29°54	5°33	24°30	25°33	9°44	12°26	19°52	12°38	11°39	13°10	11° 7	n.a.	M 8
T 9	14 51 43	13°42'34	1♑ 6	29°R54	6°43	24°51	25°41	9°52	12°29	19°51	12°39	11°37	13° 7	11°13	n.a.	T 9
W10	14 55 39	14°39'48	13°16	29°51	7°53	25°13	25°48	10° 0	12°32	19°50	12°40	11°D36	13° 3	11°20	n.a.	W10
T 11	14 59 36	15°37'02	25°14	29°43	9° 3	25°34	25°56	10° 8	12°36	19°48	12°41	11°37	13° 0	11°27	n.a.	T 11
F 12	15 3 32	16°34'16	7♒ 6	29°31	10°13	25°57	26° 3	10°15	12°39	19°47	12°42	11°38	12°57	11°33	n.a.	F 12
S 13	15 7 29	17°31'29	18°55	29°15	11°24	26°19	26°10	10°23	12°42	19°46	12°42	11°R38	12°54	11°40	n.a.	S 13
S 14	15 11 26	18°28'42	0♓49	28°55	12°34	26°43	26°17	10°31	12°46	19°44	12°43	11°38	12°51	11°47	n.a.	S 14
M15	15 15 22	19°25'54	12°50	28°31	13°44	27° 6	26°24	10°39	12°49	19°43	12°44	11°35	12°48	11°53	n.a.	M15
T 16	15 19 19	20°23'06	25° 5	28° 5	14°55	27°30	26°31	10°47	12°53	19°42	12°44	11°30	12°44	12° 0	n.a.	T 16
W17	15 23 15	21°20'18	7♈37	27°36	16° 5	27°54	26°37	10°55	12°56	19°40	12°45	11°23	12°41	12° 7	n.a.	W17
T 18	15 27 12	22°17'29	20°27	27° 5	17°16	28°18	26°44	11° 2	12°59	19°39	12°46	11°16	12°38	12°13	n.a.	T 18
F 19	15 31 8	23°14'40	3♉38	26°33	18°26	28°43	26°50	11°10	13° 3	19°38	12°46	11° 8	12°35	12°20	n.a.	F 19
S 20	15 35 5	24°11'51	17° 8	25°59	19°37	29° 8	26°56	11°18	13° 6	19°36	12°47	11° 0	12°32	12°27	n.a.	S 20
S 21	15 39 1	25° 9'01	0♊55	25°25	20°47	29°34	27° 2	11°26	13°10	19°35	12°47	10°54	12°28	12°33	n.a.	S 21
M22	15 42 58	26° 6'11	14°56	24°50	21°58	29°59	27° 8	11°34	13°13	19°33	12°48	10°49	12°25	12°40	n.a.	M22
T 23	15 46 55	27° 3'21	29° 6	24°17	23° 9	0♍25	27°13	11°41	13°17	19°32	12°49	10°47	12°22	12°47	n.a.	T 23
W24	15 50 51	28° 0'30	13♋22	23°44	24°20	0°52	27°19	11°49	13°20	19°30	12°49	10°D46	12°19	12°53	n.a.	W24
T 25	15 54 48	28°57'39	27°40	23°14	25°31	1°19	27°24	11°57	13°24	19°29	12°50	10°47	12°16	13° 0	n.a.	T 25
F 26	15 58 44	29°54'47	11♌57	22°46	26°41	1°46	27°29	12° 4	13°27	19°27	12°50	10°48	12°13	13° 7	n.a.	F 26
S 27	16 2 41	0♊51'54	26°10	22°20	27°52	2°13	27°34	12°12	13°31	19°26	12°51	10°R49	12° 9	13°13	n.a.	S 27
S 28	16 6 37	1°49'01	10♍17	21°58	29° 3	2°40	27°39	12°20	13°34	19°24	12°51	10°49	12° 6	13°20	n.a.	S 28
M29	16 10 34	2°46'07	24°18	21°39	0♉14	3° 8	27°43	12°27	13°38	19°23	12°51	10°47	12° 3	13°27	n.a.	M29
T 30	16 14 31	3°43'13	8♎ 9	21°25	1°26	3°36	27°48	12°35	13°42	19°21	12°52	10°44	12° 0	13°33	n.a.	T 30
W31	16 18 27	4♊40'19	21♎51	21♉14	2♉37	4♍ 5	27♒52	12♉42	13♊45	19♐20	12♓52	10♑39	11♑57	13♒40	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13n42	2n27	4s26	21n35	1n46	2s43	1s50	15n50	1n39	14s31	1s 7	12n48	1s54	22n38	0n 8	22s20	1n 0	22s20	16s47	23s 7	23s 1	15s37		n.a.
T 2	14 1	3s35	4 53	21 33	1 37	2 16	1 51	15 42	1 37	14 29	1 7	12 51	1 54	22 38	0 8	22 20	1 0	22 20	16 47	23 7	23 1	15 34		n.a.
W 3	14 20	9 23	5 3	21 30	1 26	1 49	1 52	15 33	1 35	14 26	1 7	12 53	1 54	22 39	0 8	22 20	1 0	22 20	16 48	23 8	23 2	15 32		n.a.
T 4	14 38	14 39	4 55	21 24	1 15	1 22	1 53	15 25	1 33	14 23	1 7	12 56	1 54	22 39	0 8	22 20	1 0	22 19	16 48	23 9	23 2	15 29		n.a.
F 5	14 57	19 4	4 30	21 16	1 3	0 55	1 54	15 17	1 31	14 21	1 8	12 58	1 54	22 40	0 8	22 20	1 0	22 19	16 48	23 10	23 2	15 27		n.a.
S 6	15 15	22 24	3 50	21 7	0 50	0 27	1 55	15 8	1 29	14 18	1 8	13 1	1 54	22 40	0 8	22 20	1 0	22 19	16 49	23 11	23 3	15 24		n.a.
S 7	15 33	24 29	2 59	20 56	0 36	0n 0	1 55	14 59	1 27	14 16	1 8	13 3	1 54	22 40	0 8	22 20	1 0	22 19	16 49	23 11	23 3	15 21		n.a.
M 8	15 51	25 13	2 0	20 43	0 22	0 28	1 56	14 50	1 25	14 13	1 9	13 6	1 54	22 41	0 8	22 20	1 0	22 19	16 49	23 12	23 3	15 19		n.a.
T 9	16 8	24 39	0 56	20 29	0 7	0 55	1 56	14 41	1 23	14 11	1 9	13 8	1 54	22 41	0 8	22 20	1 0	22 19	16 49	23 12	23 4	15 16		n.a.
W10	16 25	22 54	0n 9	20 13	0s 9	1 23	1 57	14 32	1 21	14 9	1 9	13 11	1 54	22 42	0 8	22 20	1 0	22 19	16 50	23 12	23 4	15 14		n.a.
T 11	16 42	20 9	1 13	19 55	0 25	1 51	1 57	14 23	1 19	14 6	1 9	13 14	1 54	22 42	0 8	22 19	1 0	22 19	16 50	23 12	23 4	15 11		n.a.
F 12	16 59	16 34	2 13	19 37	0 41	2 18	1 57	14 13	1 17	14 4	1 10	13 16	1 54	22 43	0 8	22 19	1 0	22 19	16 50	23 12	23 5	15 9		n.a.
S 13	17 15	12 22	3 7	19 17	0 58	2 46	1 57	14 4	1 15	14 2	1 10	13 19	1 54	22 43	0 8	22 19	1 0	22 19	16 51	23 12	23 5	15 6		n.a.
S 14	17 31	7 41	3 53	18 56	1 15	3 14	1 57	13 54	1 13	14 0	1 10	13 21	1 54	22 43	0 8	22 19	1 0	22 19	16 51	23 12	23 5	15 3		n.a.
M15	17 47	2 40	4 30	18 34	1 32	3 41	1 57	13 44	1 12	13 58	1 11	13 24	1 54	22 44	0 8	22 19	1 0	22 19	16 51	23 12	23 5	15 1		n.a.
T 16	18 3	2n32	4 55	18 12	1 48	4 9	1 57	13 34	1 10	13 56	1 11	13 26	1 54	22 44	0 8	22 19	1 0	22 19	16 52	23 13	23 6	14 58		n.a.
W17	18 18	7 44	5 7	17 49	2 5	4 37	1 56	13 24	1 8	13 54	1 11	13 28	1 53	22 45	0 8	22 19	1 0	22 19	16 52	23 13	23 6	14 56		n.a.
T 18	18 33	12 45	5 3	17 27	2 21	5 4	1 56	13 14	1 6	13 52	1 11	13 31	1 53	22 45	0 8	22 19	1 0	22 19	16 52	23 14	23 6	14 53		n.a.
F 19	18 48	17 19	4 44	17 4	2 37	5 32	1 56	13 3	1 4	13 50	1 12	13 33	1 53	22 46	0 8	22 19	1 0	22 19	16 53	23 15	23 7	14 50		n.a.
S 20	19 2	21 7	4 9	16 42	2 51	5 59	1 55	12 53	1 3	13 48	1 12	13 36	1 53	22 46	0 8	22 18	1 0	22 19	16 53	23 15	23 7	14 48		n.a.
S 21	19 16	23 49	3 18	16 20	3 5	6 26	1 54	12 42	1 1	13 46	1 12	13 38	1 53	22 47	0 8	22 18	1 0	22 20	16 53	23 16	23 7	14 45		n.a.
M22	19 30	25 5	2 15	15 59	3 18	6 54	1 54	12 32	0 59	13 45	1 13	13 41	1 53	22 47	0 8	22 18	1 0	22 20	16 54	23 16	23 8	14 43		n.a.
T 23	19 43	24 45	1 3	15 40	3 30	7 21	1 53	12 21	0 57	13 43	1 13	13 43	1 53	22 47	0 8	22 18	1 0	22 20	16 54	23 16	23 8	14 40		n.a.
W24	19 57	22 48	0s14	15 21	3 41	7 48	1 52	12 10	0 56	13 41	1 13	13 45	1 53	22 48	0 8	22 18	1 0	22 20	16 55	23 16	23 8	14 37		n.a.
T 25	20 9	19 23	1 30	15 5	3 50	8 15	1 51	11 58	0 54	13 40	1 13	13 48	1 53	22 48	0 8	22 18	1 0	22 20	16 55	23 16	23 8	14 35		n.a.
F 26	20 22	14 50	2 41	14 50	3 58	8 42	1 50	11 47	0 52	13 38	1 14	13 50	1 53	22 49	0 8	22 18	1 0	22 20	16 55	23 16	23 9	14 32		n.a.
S 27	20 34	9 28	3 42	14 37	4 5	9 8	1 49	11 36	0 51	13 37	1 14	13 52	1 53	22 49	0 8	22 18	1 0	22 20	16 56	23 16	23 9	14 29		n.a.
S 28	20 46	3 40	4 28	14 26	4 10	9 35	1 48	11 24	0 49	13 35	1 14	13 55	1 53	22 50	0 8	22 17	1 0	22 20	16 56	23 16	23 9	14 27		n.a.
M29	20 57	2s16	4 58	14 18	4 14	10 1	1 47	11 13	0 48	13 34	1 15	13 57	1 53	22 50	0 8	22 17	1 0	22 21	16 56	23 16	23 10	14 24		n.a.
T 30	21 8	8 1	5 11	14 12	4 17	10 27	1 46	11 1	0 46	13 33	1 15	13 59	1 53	22 51	0 8	22 17	1 0	22 21	16 57	23 16	23 10	14 22		n.a.
W31	21n19	13s19	5s 5	14n 8	4s18	10n53	1s44	10n49	0n44	13s32	1s15	14n 2	1s53	22n51	0n 8	22s17	1n 0	22s21	16s57	23s17	23s10	14s19		n.a.

Julian Day Number = 1666755.5, Delta T = 03h22m45s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°08'00, Lahiri = - 6°01'00 Julian Calendar 1 May 150 BCE == Greg. Calendar 28 Apr. 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

JUNE 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 22 24	5♊37'24	5♏21	21°R 8	3♉48	4♍33	27♒56	12♉50	13♊49	19°R18	12♓53	10°R34	11♑53	13♒47	n.a.	T 1
F 2	16 26 20	6°34'29	18°37	21°D 7	4°59	5° 2	28° 0	12°57	13°52	19♐17	12°53	10♑28	11°50	13°53	n.a.	F 2
S 3	16 30 17	7°31'34	1♐38	21♉11	6°10	5°31	28° 4	13° 5	13°56	19°15	12°53	10°23	11°47	14° 0	n.a.	S 3
S 4	16 34 13	8°28'40	14°24	21°19	7°22	6° 1	28° 7	13°12	14° 0	19°14	12°53	10°20	11°44	14° 7	n.a.	S 4
M 5	16 38 10	9°25'45	26°55	21°33	8°33	6°30	28°10	13°19	14° 3	19°12	12°54	10°17	11°41	14°13	n.a.	M 5
T 6	16 42 6	10°22'51	9♑12	21°51	9°44	7° 0	28°14	13°27	14° 7	19°10	12°54	10°D17	11°38	14°20	n.a.	T 6
W 7	16 46 3	11°19'57	21°17	22°15	10°56	7°30	28°17	13°34	14°10	19° 9	12°54	10°17	11°34	14°27	n.a.	W 7
T 8	16 50 0	12°17'03	3♒14	22°44	12° 8	8° 1	28°19	13°41	14°14	19° 7	12°54	10°18	11°31	14°33	n.a.	T 8
F 9	16 53 56	13°14'09	15° 4	23°17	13°19	8°31	28°22	13°49	14°18	19° 6	12°55	10°20	11°28	14°40	n.a.	F 9
S 10	16 57 53	14°11'16	26°54	23°56	14°31	9° 2	28°24	13°56	14°21	19° 4	12°55	10°22	11°25	14°47	n.a.	S 10
S 11	17 1 49	15° 8'24	8♓48	24°40	15°42	9°33	28°27	14° 3	14°25	19° 2	12°55	10°23	11°22	14°53	n.a.	S 11
M12	17 5 46	16° 5'32	20°50	25°28	16°54	10° 4	28°29	14°10	14°28	19° 1	12°55	10°R23	11°19	15° 0	n.a.	M12
T 13	17 9 42	17° 2'40	3♈ 5	26°21	18° 6	10°36	28°30	14°17	14°32	18°59	12°55	10°22	11°15	15° 7	n.a.	T 13
W14	17 13 39	17°59'50	15°38	27°20	19°18	11° 7	28°32	14°24	14°36	18°57	12°55	10°20	11°12	15°13	n.a.	W14
T 15	17 17 35	18°57'00	28°31	28°22	20°30	11°39	28°34	14°31	14°39	18°56	12°55	10°17	11° 9	15°20	n.a.	T 15
F 16	17 21 32	19°54'10	11♉48	29°30	21°41	12°11	28°35	14°38	14°43	18°54	12°55	10°15	11° 6	15°27	n.a.	F 16
S 17	17 25 29	20°51'22	25°28	0♊42	22°53	12°44	28°36	14°45	14°47	18°53	12°R55	10°12	11° 3	15°33	n.a.	S 17
S 18	17 29 25	21°48'34	9♊30	1°59	24° 5	13°16	28°37	14°52	14°50	18°51	12°55	10°10	10°59	15°40	n.a.	S 18
M19	17 33 22	22°45'47	23°51	3°20	25°17	13°49	28°37	14°59	14°54	18°49	12°55	10° 8	10°56	15°47	n.a.	M19
T 20	17 37 18	23°43'00	8♋26	4°45	26°30	14°22	28°38	15° 6	14°57	18°48	12°55	10°D 8	10°53	15°54	n.a.	T 20
W21	17 41 15	24°40'14	23° 7	6°15	27°42	14°55	28°38	15°12	15° 1	18°46	12°55	10° 8	10°50	16° 0	n.a.	W21
T 22	17 45 11	25°37'28	7♌49	7°48	28°54	15°28	28°R38	15°19	15° 5	18°45	12°55	10° 9	10°47	16° 7	n.a.	T 22
F 23	17 49 8	26°34'43	22°26	9°26	0♊ 6	16° 2	28°38	15°26	15° 8	18°43	12°55	10°10	10°44	16°14	n.a.	F 23
S 24	17 53 5	27°31'58	6♍53	11° 7	1°18	16°35	28°38	15°32	15°12	18°41	12°55	10°11	10°40	16°20	n.a.	S 24
S 25	17 57 1	28°29'14	21° 6	12°52	2°31	17° 9	28°37	15°39	15°15	18°40	12°55	10°11	10°37	16°27	n.a.	S 25
M26	18 0 58	29°26'30	5♎ 3	14°40	3°43	17°43	28°37	15°45	15°19	18°38	12°54	10°R11	10°34	16°34	n.a.	M26
T 27	18 4 54	0♋23'46	18°44	16°32	4°55	18°17	28°36	15°52	15°22	18°37	12°54	10°11	10°31	16°40	n.a.	T 27
W28	18 8 51	1°21'03	2♏ 9	18°26	6° 8	18°52	28°35	15°58	15°26	18°35	12°54	10°10	10°28	16°47	n.a.	W28
T 29	18 12 47	2°18'21	15°17	20°22	7°20	19°26	28°33	16° 4	15°29	18°33	12°54	10° 9	10°25	16°54	n.a.	T 29
F 30	18 16 44	3♋15'39	28♏11	22♊21	8♊33	20♍ 1	28♒32	16♉11	15♊33	18♐32	12♓53	10♑ 8	10♑21	17♒ 0	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n29	17s53	4s43	14n 6	4s18	11n19	1s43	10n37	0n43	13s31	1s16	14n 4	1s53	22n51	0n 8	22s17	1n 0	22s21	16s57	23s17	23s10	14s16		n.a.
F 2	21 39	21 29	4 5	14 8	4 16	11 44	1 42	10 25	0 41	13 30	1 16	14 6	1 53	22 52	0 8	22 17	1 0	22 21	16 58	23 18	23 11	14 14		n.a.
S 3	21 49	23 55	3 15	14 11	4 13	12 10	1 40	10 13	0 40	13 29	1 16	14 8	1 54	22 52	0 8	22 17	1 0	22 22	16 58	23 18	23 11	14 11		n.a.
S 4	21 58	25 3	2 17	14 17	4 10	12 35	1 38	10 0	0 38	13 28	1 17	14 11	1 54	22 53	0 8	22 17	1 0	22 22	16 58	23 18	23 11	14 8		n.a.
M 5	22 7	24 53	1 13	14 25	4 5	12 59	1 37	9 48	0 37	13 27	1 17	14 13	1 54	22 53	0 8	22 16	1 0	22 22	16 59	23 19	23 12	14 6		n.a.
T 6	22 16	23 29	0 6	14 36	3 59	13 24	1 35	9 35	0 35	13 26	1 17	14 15	1 54	22 54	0 8	22 16	1 0	22 22	16 59	23 19	23 12	14 3		n.a.
W 7	22 24	21 1	1n 0	14 49	3 52	13 48	1 33	9 22	0 34	13 25	1 18	14 17	1 54	22 54	0 8	22 16	1 0	22 22	17 0	23 19	23 12	14 1		n.a.
T 8	22 32	17 40	2 3	15 3	3 44	14 12	1 31	9 10	0 32	13 25	1 18	14 19	1 54	22 55	0 8	22 16	1 0	22 23	17 0	23 18	23 12	13 58		n.a.
F 9	22 39	13 38	3 0	15 20	3 35	14 36	1 30	8 57	0 31	13 24	1 18	14 21	1 54	22 55	0 8	22 16	1 0	22 23	17 0	23 18	23 13	13 55		n.a.
S 10	22 46	9 6	3 49	15 39	3 26	14 59	1 28	8 44	0 30	13 23	1 19	14 24	1 54	22 55	0 8	22 16	1 0	22 23	17 1	23 18	23 13	13 53		n.a.
S 11	22 52	4 13	4 28	15 59	3 16	15 22	1 26	8 31	0 28	13 23	1 19	14 26	1 54	22 56	0 8	22 16	1 0	22 24	17 1	23 18	23 13	13 50		n.a.
M12	22 59	0n52	4 57	16 21	3 5	15 44	1 24	8 17	0 27	13 22	1 19	14 28	1 54	22 56	0 8	22 16	1 0	22 24	17 1	23 18	23 14	13 47		n.a.
T 13	23 4	6 0	5 12	16 44	2 54	16 7	1 22	8 4	0 25	13 22	1 20	14 30	1 54	22 57	0 8	22 15	1 0	22 24	17 2	23 18	23 14	13 45		n.a.
W14	23 10	11 2	5 14	17 9	2 42	16 29	1 20	7 51	0 24	13 22	1 20	14 32	1 54	22 57	0 8	22 15	1 0	22 24	17 2	23 18	23 14	13 42		n.a.
T 15	23 15	15 43	4 59	17 35	2 30	16 50	1 17	7 37	0 23	13 22	1 20	14 34	1 54	22 58	0 8	22 15	1 0	22 25	17 3	23 19	23 14	13 39		n.a.
F 16	23 19	19 48	4 29	18 2	2 18	17 11	1 15	7 24	0 21	13 22	1 21	14 36	1 54	22 58	0 9	22 15	1 0	22 25	17 3	23 19	23 15	13 37		n.a.
S 17	23 24	22 56	3 42	18 29	2 5	17 32	1 13	7 10	0 20	13 21	1 21	14 38	1 54	22 58	0 9	22 15	1 0	22 25	17 3	23 19	23 15	13 34		n.a.
S 18	23 27	24 47	2 41	18 58	1 52	17 52	1 11	6 56	0 19	13 21	1 21	14 40	1 54	22 59	0 9	22 15	1 0	22 26	17 4	23 19	23 15	13 31		n.a.
M19	23 31	25 3	1 29	19 26	1 39	18 12	1 8	6 42	0 17	13 21	1 22	14 42	1 54	22 59	0 9	22 15	1 0	22 26	17 4	23 19	23 15	13 29		n.a.
T 20	23 34	23 36	0 9	19 55	1 26	18 31	1 6	6 28	0 16	13 22	1 22	14 44	1 54	23 0	0 9	22 15	1 0	22 26	17 4	23 19	23 16	13 26		n.a.
W21	23 36	20 32	1s11	20 24	1 13	18 50	1 4	6 14	0 15	13 22	1 22	14 46	1 54	23 0	0 9	22 14	1 0	22 27	17 5	23 19	23 16	13 23		n.a.
T 22	23 38	16 9	2 27	20 53	0 59	19 9	1 1	6 0	0 13	13 22	1 23	14 48	1 54	23 1	0 9	22 14	1 0	22 27	17 5	23 19	23 16	13 21		n.a.
F 23	23 40	10 50	3 33	21 21	0 46	19 27	0 59	5 46	0 12	13 22	1 23	14 49	1 54	23 1	0 9	22 14	1 0	22 28	17 6	23 19	23 16	13 18		n.a.
S 24	23 41	4 59	4 25	21 49	0 33	19 44	0 56	5 31	0 11	13 23	1 23	14 51	1 55	23 1	0 9	22 14	1 0	22 28	17 6	23 19	23 17	13 15		n.a.
S 25	23 42	1s 1	4 59	22 16	0 21	20 1	0 54	5 17	0 10	13 23	1 24	14 53	1 55	23 2	0 9	22 14	1 0	22 28	17 6	23 19	23 17	13 13		n.a.
M26	23 43	6 51	5 16	22 41	0 8	20 18	0 51	5 2	0 8	13 24	1 24	14 55	1 55	23 2	0 9	22 14	1 0	22 29	17 7	23 19	23 17	13 10		n.a.
T 27	23 43	12 14	5 13	23 5	0n 4	20 34	0 49	4 48	0 7	13 25	1 24	14 57	1 55	23 3	0 9	22 14	1 0	22 29	17 7	23 19	23 18	13 7		n.a.
W28	23 42	16 56	4 54	23 28	0 15	20 49	0 46	4 33	0 6	13 25	1 24	14 58	1 55	23 3	0 9	22 14	1 0	22 30	17 7	23 19	23 18	13 5		n.a.
T 29	23 42	20 44	4 19	23 48	0 26	21 4	0 44	4 18	0 5	13 26	1 25	15 0	1 55	23 3	0 9	22 14	1 0	22 30	17 8	23 19	23 18	13 2		n.a.
F 30	23n40	23s26	3s32	24n 6	0n37	21n18	0s41	4n 3	0n 4	13s27	1s25	15n 2	1s55	23n 4	0n 9	22s13	1n 0	22s30	17s 8	23s19	23s18	12s59		n.a.

Julian Day Number = 1666786.5, Delta T = 03h22m44s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'56, Lahiri = - 6°00'56 Julian Calendar 1 June 150 BCE == Greg. Calendar 29 May 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

JULY 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 20 40	4♋12'59	10♐51	24♊22	9♊45	20♍36	28°R30	16♉17	15♊36	18°R30	12°R53	10°R 7	10♑18	17♒ 7	n.a.	S 1
S 2	18 24 37	5°10'19	23°19	26°24	10°58	21°11	28♒29	16°23	15°40	18♐29	12♓53	10♑ 7	10°15	17°14	n.a.	S 2
M 3	18 28 34	6° 7'40	5♑35	28°28	12°11	21°46	28°26	16°29	15°43	18°27	12°52	10°D 7	10°12	17°20	n.a.	M 3
T 4	18 32 30	7° 5'02	17°41	0♋32	13°23	22°21	28°24	16°35	15°47	18°26	12°52	10° 7	10° 9	17°27	n.a.	T 4
W 5	18 36 27	8° 2'25	29°39	2°37	14°36	22°57	28°22	16°41	15°50	18°24	12°52	10° 7	10° 5	17°34	n.a.	W 5
T 6	18 40 23	8°59'49	11♒32	4°42	15°49	23°33	28°19	16°47	15°53	18°23	12°51	10° 7	10° 2	17°40	n.a.	T 6
F 7	18 44 20	9°57'15	23°22	6°47	17° 2	24° 9	28°16	16°53	15°57	18°21	12°51	10°R 7	9°59	17°47	n.a.	F 7
S 8	18 48 16	10°54'42	5♓11	8°51	18°15	24°45	28°13	16°58	16° 0	18°20	12°50	10° 7	9°56	17°54	n.a.	S 8
S 9	18 52 13	11°52'10	17° 5	10°55	19°28	25°21	28°10	17° 4	16° 4	18°18	12°50	10° 7	9°53	18° 0	n.a.	S 9
M10	18 56 9	12°49'39	29° 6	12°59	20°41	25°57	28° 7	17°10	16° 7	18°17	12°49	10° 7	9°50	18° 7	n.a.	M10
T 11	19 0 6	13°47'10	11♈20	15° 1	21°54	26°33	28° 3	17°15	16°10	18°15	12°49	10°D 7	9°46	18°14	n.a.	T 11
W12	19 4 3	14°44'43	23°50	17° 3	23° 7	27°10	28° 0	17°21	16°14	18°14	12°48	10° 7	9°43	18°20	n.a.	W12
T 13	19 7 59	15°42'17	6♉40	19° 3	24°20	27°47	27°56	17°26	16°17	18°13	12°48	10° 7	9°40	18°27	n.a.	T 13
F 14	19 11 56	16°39'53	19°55	21° 2	25°33	28°24	27°51	17°31	16°20	18°11	12°47	10° 8	9°37	18°34	n.a.	F 14
S 15	19 15 52	17°37'30	3♊35	23° 0	26°46	29° 1	27°47	17°36	16°23	18°10	12°47	10° 8	9°34	18°40	n.a.	S 15
S 16	19 19 49	18°35'09	17°41	24°57	27°59	29°38	27°43	17°42	16°27	18° 9	12°46	10° 9	9°31	18°47	n.a.	S 16
M17	19 23 45	19°32'50	2♋11	26°52	29°13	0♎15	27°38	17°47	16°30	18° 7	12°46	10° 9	9°27	18°54	n.a.	M17
T 18	19 27 42	20°30'32	17° 0	28°46	0♋26	0°53	27°33	17°52	16°33	18° 6	12°45	10°R 9	9°24	19° 0	n.a.	T 18
W19	19 31 38	21°28'16	2♌ 1	0♌39	1°40	1°30	27°28	17°57	16°36	18° 5	12°44	10° 9	9°21	19° 7	n.a.	W19
T 20	19 35 35	22°26'01	17° 5	2°30	2°53	2° 8	27°23	18° 2	16°39	18° 3	12°44	10° 8	9°18	19°14	n.a.	T 20
F 21	19 39 32	23°23'47	2♍ 4	4°19	4° 6	2°46	27°18	18° 6	16°42	18° 2	12°43	10° 6	9°15	19°20	n.a.	F 21
S 22	19 43 28	24°21'34	16°50	6° 8	5°20	3°24	27°13	18°11	16°45	18° 1	12°42	10° 5	9°11	19°27	n.a.	S 22
S 23	19 47 25	25°19'23	1♎16	7°55	6°33	4° 2	27° 7	18°16	16°48	18° 0	12°42	10° 3	9° 8	19°34	n.a.	S 23
M24	19 51 21	26°17'13	15°20	9°40	7°47	4°40	27° 1	18°20	16°51	17°58	12°41	10° 2	9° 5	19°40	n.a.	M24
T 25	19 55 18	27°15'04	29° 0	11°24	9° 1	5°19	26°55	18°25	16°54	17°57	12°40	10°D 2	9° 2	19°47	n.a.	T 25
W26	19 59 14	28°12'57	12♏17	13° 7	10°14	5°57	26°49	18°29	16°57	17°56	12°39	10° 2	8°59	19°54	n.a.	W26
T 27	20 3 11	29°10'51	25°14	14°49	11°28	6°36	26°43	18°33	17° 0	17°55	12°38	10° 3	8°56	20° 1	n.a.	T 27
F 28	20 7 7	0♌ 8'47	7♐52	16°29	12°42	7°15	26°37	18°37	17° 3	17°54	12°38	10° 5	8°52	20° 7	n.a.	F 28
S 29	20 11 4	1° 6'44	20°16	18° 7	13°56	7°54	26°31	18°41	17° 6	17°53	12°37	10° 6	8°49	20°14	n.a.	S 29
S 30	20 15 1	2° 4'42	2♑28	19°45	15° 9	8°33	26°24	18°45	17° 9	17°52	12°36	10° 7	8°46	20°21	n.a.	S 30
M31	20 18 57	3♌ 2'42	14♑32	21♌21	16♋23	9♎12	26♒17	18♉49	17♊11	17♐51	12♓35	10°R 7	8♑43	20♒27	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n39	24s53	2s35	24n22	0n47	21n32	0s38	3n48	0n 3	13s28	1s25	15n 4	1s55	23n 4	0n 9	22s13	0n59	22s31	17s 8	23s19	23s19	12s56		n.a.
S 2	23 37	25 4	1 32	24 36	0 56	21 45	0 36	3 33	0 1	13 29	1 26	15 5	1 55	23 5	0 9	22 13	0 59	22 31	17 9	23 19	23 19	12 54		n.a.
M 3	23 34	24 1	0 25	24 47	1 4	21 58	0 33	3 18	0 0	13 30	1 26	15 7	1 55	23 5	0 9	22 13	0 59	22 32	17 9	23 19	23 19	12 51		n.a.
T 4	23 31	21 50	0n42	24 55	1 12	22 10	0 31	3 3	0s 1	13 31	1 26	15 9	1 55	23 5	0 9	22 13	0 59	22 32	17 9	23 19	23 19	12 48		n.a.
W 5	23 28	18 43	1 46	25 0	1 19	22 21	0 28	2 48	0 2	13 32	1 27	15 10	1 55	23 6	0 9	22 13	0 59	22 33	17 10	23 19	23 19	12 46		n.a.
T 6	23 24	14 52	2 46	25 3	1 25	22 32	0 25	2 33	0 3	13 33	1 27	15 12	1 56	23 6	0 9	22 13	0 59	22 33	17 10	23 19	23 20	12 43		n.a.
F 7	23 20	10 28	3 38	25 3	1 31	22 42	0 23	2 17	0 4	13 34	1 27	15 13	1 56	23 6	0 9	22 13	0 59	22 34	17 10	23 19	23 20	12 40		n.a.
S 8	23 16	5 41	4 20	25 0	1 35	22 51	0 20	2 2	0 5	13 36	1 28	15 15	1 56	23 7	0 9	22 13	0 59	22 34	17 11	23 19	23 20	12 38		n.a.
S 9	23 11	0 41	4 52	24 54	1 39	23 0	0 17	1 46	0 7	13 37	1 28	15 16	1 56	23 7	0 9	22 12	0 59	22 35	17 11	23 19	23 20	12 35		n.a.
M10	23 5	4n24	5 12	24 46	1 42	23 8	0 15	1 31	0 8	13 39	1 28	15 18	1 56	23 8	0 9	22 12	0 59	22 35	17 11	23 19	23 21	12 32		n.a.
T 11	22 59	9 23	5 17	24 35	1 45	23 16	0 12	1 15	0 9	13 40	1 29	15 19	1 56	23 8	0 9	22 12	0 59	22 36	17 12	23 19	23 21	12 30		n.a.
W12	22 53	14 7	5 8	24 22	1 46	23 23	0 9	0 59	0 10	13 42	1 29	15 21	1 56	23 8	0 9	22 12	0 59	22 36	17 12	23 19	23 21	12 27		n.a.
T 13	22 47	18 21	4 44	24 7	1 47	23 29	0 7	0 44	0 11	13 43	1 29	15 22	1 56	23 9	0 9	22 12	0 59	22 37	17 12	23 19	23 21	12 24		n.a.
F 14	22 40	21 50	4 4	23 49	1 48	23 34	0 4	0 28	0 12	13 45	1 29	15 24	1 56	23 9	0 9	22 12	0 59	22 37	17 13	23 19	23 22	12 21		n.a.
S 15	22 32	24 12	3 9	23 30	1 47	23 39	0 1	0 12	0 13	13 47	1 30	15 25	1 57	23 9	0 9	22 12	0 59	22 38	17 13	23 19	23 22	12 19		n.a.
S 16	22 24	25 9	2 2	23 8	1 47	23 43	0n 1	0s 4	0 14	13 49	1 30	15 26	1 57	23 10	0 9	22 12	0 59	22 38	17 13	23 19	23 22	12 16		n.a.
M17	22 16	24 26	0 44	22 45	1 45	23 47	0 4	0 20	0 15	13 51	1 30	15 28	1 57	23 10	0 9	22 12	0 59	22 39	17 14	23 19	23 22	12 13		n.a.
T 18	22 8	22 0	0s38	22 19	1 43	23 49	0 6	0 36	0 16	13 53	1 31	15 29	1 57	23 10	0 9	22 12	0 59	22 39	17 14	23 19	23 23	12 11		n.a.
W19	21 59	18 1	1 58	21 53	1 41	23 51	0 9	0 52	0 17	13 54	1 31	15 30	1 57	23 11	0 9	22 12	0 59	22 40	17 14	23 19	23 23	12 8		n.a.
T 20	21 49	12 52	3 11	21 25	1 38	23 52	0 12	1 8	0 18	13 57	1 31	15 31	1 57	23 11	0 9	22 11	0 59	22 40	17 15	23 19	23 23	12 5		n.a.
F 21	21 40	6 59	4 9	20 55	1 34	23 53	0 14	1 24	0 19	13 59	1 31	15 33	1 57	23 11	0 9	22 11	0 59	22 41	17 15	23 19	23 23	12 2		n.a.
S 22	21 29	0 48	4 51	20 25	1 30	23 53	0 17	1 40	0 20	14 1	1 32	15 34	1 57	23 12	0 9	22 11	0 59	22 41	17 15	23 20	23 23	12 0		n.a.
S 23	21 19	5s17	5 13	19 53	1 26	23 52	0 19	1 56	0 21	14 3	1 32	15 35	1 58	23 12	0 9	22 11	0 59	22 42	17 15	23 20	23 24	11 57		n.a.
M24	21 8	10 56	5 15	19 20	1 22	23 50	0 22	2 13	0 22	14 5	1 32	15 36	1 58	23 12	0 9	22 11	0 59	22 42	17 16	23 20	23 24	11 54		n.a.
T 25	20 57	15 53	4 59	18 47	1 17	23 48	0 24	2 29	0 23	14 7	1 32	15 37	1 58	23 13	0 9	22 11	0 59	22 43	17 16	23 20	23 24	11 51		n.a.
W26	20 45	19 56	4 28	18 12	1 11	23 45	0 26	2 45	0 24	14 10	1 33	15 38	1 58	23 13	0 9	22 11	0 59	22 44	17 16	23 20	23 24	11 49		n.a.
T 27	20 33	22 54	3 43	17 37	1 6	23 41	0 29	3 2	0 25	14 12	1 33	15 39	1 58	23 13	0 9	22 11	0 59	22 44	17 17	23 20	23 25	11 46		n.a.
F 28	20 21	24 39	2 49	17 1	1 0	23 37	0 31	3 18	0 26	14 15	1 33	15 40	1 58	23 13	0 9	22 11	0 59	22 45	17 17	23 20	23 25	11 43		n.a.
S 29	20 8	25 8	1 47	16 25	0 53	23 32	0 33	3 34	0 26	14 17	1 33	15 41	1 58	23 14	0 9	22 11	0 59	22 45	17 17	23 19	23 25	11 41		n.a.
S 30	19 55	24 23	0 42	15 48	0 47	23 26	0 36	3 51	0 27	14 19	1 34	15 42	1 59	23 14	0 9	22 11	0 59	22 46	17 17	23 19	23 25	11 38		n.a.
M31	19n42	22s31	0n24	15n11	0n40	23n19	0n38	4s 7	0s28	14s22	1s34	15n43	1s59	23n14	0n 9	22s11	0n59	22s46	17s18	23s19	23s25	11s35		n.a.

Julian Day Number = 1666816.5, Delta T = 03h22m43s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'52, Lahiri = - 6°00'51 Julian Calendar 1 July 150 BCE == Greg. Calendar 28 June 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

AUGUST 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 22 54	4♌ 0'44	26♉29	22♌56	17♋37	9♎51	26°R11	18♉53	17♊14	17°R50	12°R34	10°R 6	8♉40	20♒34	n.a.	T 1
W 2	20 26 50	4°58'48	8♒21	24°29	18°51	10°31	26♒ 4	18°57	17°17	17♐49	12♓33	10♉ 4	8°37	20°41	n.a.	W 2
T 3	20 30 47	5°56'53	20°11	26° 2	20° 5	11°10	25°57	19° 1	17°20	17°48	12°33	10° 1	8°33	20°47	n.a.	T 3
F 4	20 34 43	6°55'00	2♓ 1	27°33	21°19	11°50	25°50	19° 4	17°22	17°47	12°32	9°57	8°30	20°54	n.a.	F 4
S 5	20 38 40	7°53'09	13°53	29° 2	22°33	12°29	25°42	19° 8	17°25	17°46	12°31	9°52	8°27	21° 1	n.a.	S 5
S 6	20 42 36	8°51'20	25°49	0♍31	23°47	13° 9	25°35	19°11	17°27	17°45	12°30	9°47	8°24	21° 7	n.a.	S 6
M 7	20 46 33	9°49'33	7♈52	1°58	25° 1	13°49	25°28	19°14	17°30	17°44	12°29	9°43	8°21	21°14	n.a.	M 7
T 8	20 50 30	10°47'48	20° 6	3°24	26°16	14°29	25°20	19°17	17°32	17°43	12°28	9°40	8°17	21°21	n.a.	T 8
W 9	20 54 26	11°46'05	2♉34	4°48	27°30	15°10	25°13	19°20	17°35	17°43	12°27	9°38	8°14	21°27	n.a.	W 9
T 10	20 58 23	12°44'24	15°19	6°11	28°44	15°50	25° 5	19°23	17°37	17°42	12°26	9°D37	8°11	21°34	n.a.	T 10
F 11	21 2 19	13°42'46	28°26	7°33	29°58	16°30	24°57	19°26	17°40	17°41	12°25	9°38	8° 8	21°41	n.a.	F 11
S 12	21 6 16	14°41'10	11♊59	8°53	1♌13	17°11	24°50	19°29	17°42	17°40	12°24	9°40	8° 5	21°47	n.a.	S 12
S 13	21 10 12	15°39'36	25°57	10°12	2°27	17°51	24°42	19°32	17°44	17°40	12°23	9°41	8° 2	21°54	n.a.	S 13
M14	21 14 9	16°38'05	10♋23	11°30	3°42	18°32	24°34	19°34	17°47	17°39	12°22	9°R42	7°58	22° 1	n.a.	M14
T 15	21 18 5	17°36'35	25°12	12°45	4°56	19°13	24°26	19°37	17°49	17°39	12°21	9°41	7°55	22° 7	n.a.	T 15
W16	21 22 2	18°35'08	10♌18	13°59	6°10	19°54	24°18	19°39	17°51	17°38	12°20	9°38	7°52	22°14	n.a.	W16
T 17	21 25 59	19°33'43	25°34	15°12	7°25	20°35	24°10	19°41	17°53	17°37	12°19	9°34	7°49	22°21	n.a.	T 17
F 18	21 29 55	20°32'20	10♍48	16°22	8°40	21°16	24° 2	19°43	17°55	17°37	12°18	9°28	7°46	22°28	n.a.	F 18
S 19	21 33 52	21°30'58	25°50	17°31	9°54	21°58	23°54	19°45	17°57	17°36	12°16	9°21	7°43	22°34	n.a.	S 19
S 20	21 37 48	22°29'38	10♎31	18°37	11° 9	22°39	23°46	19°47	17°59	17°36	12°15	9°16	7°39	22°41	n.a.	S 20
M21	21 41 45	23°28'21	24°46	19°42	12°23	23°21	23°38	19°49	18° 1	17°35	12°14	9°11	7°36	22°48	n.a.	M21
T 22	21 45 41	24°27'05	8♏33	20°44	13°38	24° 2	23°30	19°51	18° 3	17°35	12°13	9° 8	7°33	22°54	n.a.	T 22
W23	21 49 38	25°25'51	21°52	21°44	14°53	24°44	23°22	19°52	18° 5	17°35	12°12	9°D 6	7°30	23° 1	n.a.	W23
T 24	21 53 34	26°24'38	4♐45	22°41	16° 7	25°26	23°14	19°54	18° 7	17°34	12°11	9° 7	7°27	23° 8	n.a.	T 24
F 25	21 57 31	27°23'28	17°17	23°35	17°22	26° 8	23° 6	19°55	18° 9	17°34	12°10	9° 8	7°23	23°14	n.a.	F 25
S 26	22 1 28	28°22'19	29°32	24°26	18°37	26°50	22°58	19°57	18°11	17°34	12° 9	9° 9	7°20	23°21	n.a.	S 26
S 27	22 5 24	29°21'13	11♑36	25°14	19°52	27°32	22°50	19°58	18°12	17°33	12° 8	9°R 9	7°17	23°28	n.a.	S 27
M28	22 9 21	0♍20'08	23°31	25°58	21° 7	28°14	22°43	19°59	18°14	17°33	12° 6	9° 8	7°14	23°34	n.a.	M28
T 29	22 13 17	1°19'05	5♒22	26°39	22°21	28°56	22°35	20° 0	18°15	17°33	12° 5	9° 5	7°11	23°41	n.a.	T 29
W30	22 17 14	2°18'04	17°11	27°15	23°36	29°38	22°27	20° 1	18°17	17°33	12° 4	8°59	7° 8	23°48	n.a.	W30
T 31	22 21 10	3♍17'05	29♒ 2	27♍47	24♌51	0♏21	22♒19	20♉ 1	18♊19	17♐33	12♓ 3	8♉51	7♉ 4	23♒54	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	19n28	19s39	1n29	14n33	0n33	23n12	0n40	4s24	0s29	14s24	1s34	15n44	1s59	23n15	0n 9	22s11	0n59	22s47	17s18	23s19	23s26	11s32			n.a.
W 2	19 14	15 59	2 29	13 55	0 26	23 4	0 42	4 40	0 30	14 27	1 34	15 45	1 59	23 15	0 9	22 11	0 59	22 47	17 18	23 20	23 26	11 30			n.a.
T 3	19 0	11 43	3 23	13 17	0 19	22 55	0 44	4 56	0 31	14 30	1 34	15 46	1 59	23 15	0 9	22 10	0 59	22 48	17 18	23 20	23 26	11 27			n.a.
F 4	18 45	7 2	4 7	12 38	0 11	22 46	0 47	5 13	0 32	14 32	1 35	15 47	1 59	23 15	0 9	22 10	0 59	22 49	17 18	23 20	23 26	11 24			n.a.
S 5	18 30	2 5	4 41	12 0	0 3	22 36	0 49	5 29	0 33	14 35	1 35	15 47	1 59	23 16	0 9	22 10	0 58	22 49	17 19	23 21	23 26	11 21			n.a.
S 6	18 15	2n57	5 3	11 21	0s 4	22 25	0 51	5 46	0 33	14 38	1 35	15 48	2 0	23 16	0 9	22 10	0 58	22 50	17 19	23 21	23 27	11 19			n.a.
M 7	17 59	7 56	5 12	10 42	0 12	22 14	0 53	6 2	0 34	14 40	1 35	15 49	2 0	23 16	0 9	22 10	0 58	22 50	17 19	23 21	23 27	11 16			n.a.
T 8	17 44	12 40	5 7	10 3	0 21	22 2	0 54	6 19	0 35	14 43	1 35	15 50	2 0	23 16	0 9	22 10	0 58	22 51	17 19	23 21	23 27	11 13			n.a.
W 9	17 27	17 0	4 48	9 25	0 29	21 49	0 56	6 35	0 36	14 46	1 35	15 50	2 0	23 17	0 9	22 10	0 58	22 51	17 20	23 22	23 27	11 10			n.a.
T 10	17 11	20 40	4 14	8 46	0 37	21 36	0 58	6 52	0 37	14 48	1 36	15 51	2 0	23 17	0 9	22 10	0 58	22 52	17 20	23 22	23 27	11 8			n.a.
F 11	16 54	23 23	3 26	8 8	0 45	21 22	1 0	7 8	0 38	14 51	1 36	15 52	2 0	23 17	0 9	22 10	0 58	22 53	17 20	23 22	23 28	11 5			n.a.
S 12	16 37	24 53	2 25	7 30	0 54	21 7	1 2	7 25	0 38	14 54	1 36	15 52	2 0	23 17	0 9	22 10	0 58	22 53	17 20	23 21	23 28	11 2			n.a.
S 13	16 19	24 53	1 14	6 52	1 2	20 52	1 3	7 41	0 39	14 57	1 36	15 53	2 1	23 18	0 9	22 10	0 58	22 54	17 20	23 21	23 28	10 59			n.a.
M14	16 2	23 14	0s 4	6 15	1 11	20 36	1 5	7 58	0 40	14 59	1 36	15 53	2 1	23 18	0 9	22 10	0 58	22 54	17 20	23 21	23 28	10 57			n.a.
T 15	15 44	19 58	1 23	5 38	1 19	20 19	1 6	8 14	0 41	15 2	1 36	15 54	2 1	23 18	0 9	22 10	0 58	22 55	17 21	23 21	23 28	10 54			n.a.
W16	15 26	15 19	2 39	5 1	1 28	20 2	1 8	8 30	0 41	15 5	1 36	15 54	2 1	23 18	0 9	22 10	0 58	22 55	17 21	23 22	23 29	10 51			n.a.
T 17	15 7	9 39	3 43	4 25	1 37	19 45	1 9	8 47	0 42	15 8	1 36	15 55	2 1	23 19	0 9	22 10	0 58	22 56	17 21	23 22	23 29	10 48			n.a.
F 18	14 49	3 25	4 32	3 50	1 45	19 26	1 11	9 3	0 43	15 11	1 37	15 55	2 1	23 19	0 9	22 10	0 58	22 57	17 21	23 22	23 29	10 46			n.a.
S 19	14 30	2s55	5 1	3 15	1 54	19 8	1 12	9 19	0 44	15 13	1 37	15 56	2 2	23 19	0 9	22 10	0 58	22 57	17 21	23 23	23 29	10 43			n.a.
S 20	14 10	8 56	5 9	2 41	2 2	18 48	1 13	9 36	0 44	15 16	1 37	15 56	2 2	23 19	0 9	22 10	0 58	22 58	17 21	23 23	23 29	10 40			n.a.
M21	13 51	14 19	4 58	2 8	2 10	18 28	1 15	9 52	0 45	15 19	1 37	15 56	2 2	23 19	0 9	22 10	0 58	22 58	17 21	23 24	23 30	10 37			n.a.
T 22	13 31	18 46	4 30	1 36	2 18	18 8	1 16	10 8	0 46	15 22	1 37	15 57	2 2	23 20	0 9	22 10	0 58	22 59	17 22	23 24	23 30	10 35			n.a.
W23	13 11	22 6	3 48	1 5	2 26	17 47	1 17	10 24	0 47	15 24	1 37	15 57	2 2	23 20	0 9	22 10	0 58	22 59	17 22	23 24	23 30	10 32			n.a.
T 24	12 51	24 12	2 55	0 35	2 34	17 25	1 18	10 41	0 47	15 27	1 37	15 57	2 2	23 20	0 9	22 10	0 58	23 0	17 22	23 24	23 30	10 29			n.a.
F 25	12 31	25 1	1 55	0 6	2 42	17 3	1 19	10 57	0 48	15 30	1 37	15 57	2 3	23 20	0 9	22 10	0 58	23 0	17 22	23 24	23 30	10 26			n.a.
S 26	12 10	24 34	0 52	0s21	2 49	16 41	1 20	11 13	0 49	15 32	1 37	15 58	2 3	23 20	0 9	22 10	0 58	23 1	17 22	23 24	23 30	10 23			n.a.
S 27	11 50	22 59	0n13	0 47	2 56	16 18	1 20	11 29	0 49	15 35	1 37	15 58	2 3	23 20	0 10	22 10	0 58	23 1	17 22	23 24	23 31	10 21			n.a.
M28	11 29	20 23	1 17	1 11	3 3	15 54	1 21	11 45	0 50	15 38	1 37	15 58	2 3	23 21	0 10	22 10	0 58	23 2	17 22	23 24	23 31	10 18			n.a.
T 29	11 8	16 57	2 16	1 33	3 9	15 30	1 22	12 0	0 51	15 40	1 37	15 58	2 3	23 21	0 10	22 10	0 58	23 3	17 22	23 24	23 31	10 15			n.a.
W30	10 46	12 51	3 10	1 53	3 15	15 6	1 23	12 16	0 51	15 43	1 37	15 58	2 3	23 21	0 10	22 10	0 57	23 3	17 22	23 24	23 31	10 12			n.a.
T 31	10n25	8s17	3n55	2s10	3s21	14n41	1n23	12s32	0s52	15s46	1s37	15n58	2s 4	23n21	0n10	22s10	0n57	23s 4	17s22	23s25	23s31	10s10			n.a.

Julian Day Number = 1666847.5, Delta T = 03h22m42s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'48, Lahiri = - 6°00'47 Julian Calendar 1 Aug. 150 BCE == Greg. Calendar 29 July 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

SEPTEMBER 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 25 7	4♍16'08	10♓55	28♍13	26♌ 6	1♏ 3	22°R12	20♉ 2	18♊20	17°R33	12°R 2	8°R41	7♐ 1	24♒ 1	n.a.	F 1
S 2	22 29 3	5°15'13	22°52	28°35	27°21	1°46	22♒ 4	20° 2	18°21	17♗33	12♓ 1	8♐30	6°58	24° 8	n.a.	S 2
S 3	22 33 0	6°14'21	4♈55	28°50	28°36	2°29	21°56	20° 3	18°23	17°D33	11°59	8°19	6°55	24°15	n.a.	S 3
M 4	22 36 56	7°13'30	17° 5	28°59	29°51	3°11	21°49	20° 3	18°24	17°33	11°58	8° 9	6°52	24°21	n.a.	M 4
T 5	22 40 53	8°12'43	29°25	29°R 2	1♍ 6	3°54	21°42	20° 3	18°25	17°33	11°57	8° 1	6°48	24°28	n.a.	T 5
W 6	22 44 50	9°11'57	11♉56	28°58	2°21	4°37	21°34	20°R 3	18°27	17°33	11°56	7°55	6°45	24°35	n.a.	W 6
T 7	22 48 46	10°11'14	24°41	28°46	3°36	5°20	21°27	20° 3	18°28	17°33	11°55	7°51	6°42	24°41	n.a.	T 7
F 8	22 52 43	11°10'33	7♊44	28°26	4°51	6° 4	21°20	20° 3	18°29	17°33	11°54	7°D50	6°39	24°48	n.a.	F 8
S 9	22 56 39	12° 9'55	21° 7	27°58	6° 6	6°47	21°13	20° 3	18°30	17°33	11°52	7°50	6°36	24°55	n.a.	S 9
S 10	23 0 36	13° 9'20	4♋54	27°22	7°21	7°30	21° 6	20° 2	18°31	17°34	11°51	7°R51	6°33	25° 1	n.a.	S 10
M11	23 4 32	14° 8'47	19° 6	26°39	8°37	8°13	20°59	20° 2	18°32	17°34	11°50	7°50	6°29	25° 8	n.a.	M11
T 12	23 8 29	15° 8'16	3♌42	25°47	9°52	8°57	20°53	20° 1	18°33	17°34	11°49	7°48	6°26	25°15	n.a.	T 12
W13	23 12 25	16° 7'47	18°38	24°49	11° 7	9°41	20°46	20° 1	18°34	17°34	11°48	7°43	6°23	25°21	n.a.	W13
T 14	23 16 22	17° 7'21	3♍47	23°44	12°22	10°24	20°40	20° 0	18°34	17°35	11°47	7°35	6°20	25°28	n.a.	T 14
F 15	23 20 19	18° 6'57	19° 0	22°35	13°37	11° 8	20°33	19°59	18°35	17°35	11°45	7°26	6°17	25°35	n.a.	F 15
S 16	23 24 15	19° 6'34	4♎ 6	21°23	14°53	11°52	20°27	19°58	18°36	17°36	11°44	7°15	6°14	25°41	n.a.	S 16
S 17	23 28 12	20° 6'14	18°54	20° 9	16° 8	12°36	20°21	19°57	18°36	17°36	11°43	7° 4	6°10	25°48	n.a.	S 17
M18	23 32 8	21° 5'56	3♏18	18°57	17°23	13°20	20°15	19°55	18°37	17°36	11°42	6°55	6° 7	25°55	n.a.	M18
T 19	23 36 5	22° 5'40	17°13	17°47	18°38	14° 4	20°10	19°54	18°37	17°37	11°41	6°48	6° 4	26° 2	n.a.	T 19
W20	23 40 1	23° 5'26	0♐37	16°43	19°54	14°48	20° 4	19°52	18°38	17°38	11°40	6°44	6° 1	26° 8	n.a.	W20
T 21	23 43 58	24° 5'14	13°34	15°45	21° 9	15°32	19°59	19°51	18°38	17°38	11°38	6°42	5°58	26°15	n.a.	T 21
F 22	23 47 54	25° 5'03	26° 7	14°57	22°24	16°16	19°54	19°49	18°39	17°39	11°37	6°D42	5°54	26°22	n.a.	F 22
S 23	23 51 51	26° 4'54	8♑21	14°18	23°40	17° 1	19°49	19°47	18°39	17°39	11°36	6°R42	5°51	26°28	n.a.	S 23
S 24	23 55 48	27° 4'47	20°22	13°50	24°55	17°45	19°44	19°45	18°39	17°40	11°35	6°41	5°48	26°35	n.a.	S 24
M25	23 59 44	28° 4'42	2♒15	13°33	26°10	18°30	19°39	19°43	18°39	17°41	11°34	6°39	5°45	26°42	n.a.	M25
T 26	0 3 41	29° 4'38	14° 4	13°D27	27°26	19°14	19°35	19°41	18°40	17°42	11°33	6°34	5°42	26°48	n.a.	T 26
W27	0 7 37	0♎ 4'37	25°53	13°33	28°41	19°59	19°30	19°39	18°40	17°42	11°32	6°26	5°39	26°55	n.a.	W27
T 28	0 11 34	1° 4'37	7♓46	13°50	29°56	20°43	19°26	19°36	18°R40	17°43	11°31	6°15	5°35	27° 2	n.a.	T 28
F 29	0 15 30	2° 4'39	19°44	14°17	1♎12	21°28	19°22	19°34	18°40	17°44	11°29	6° 2	5°32	27° 8	n.a.	F 29
S 30	0 19 27	3♎ 4'42	1♈50	14♍53	2♎27	22♏13	19♒18	19♉31	18♊40	17♗45	11♓28	5♐48	5♐29	27♒15	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	10n 3	3s24	4n30	2s25	3s26	14n16	1n24	12s48	0s53	15s48	1s37	15n58	2s 4	23n21	0n10	22s10	0n57	23s 4	17s22	23s26	23s32	10s 7		n.a.
S 2	9 42	1n37	4 53	2 38	3 30	13 51	1 24	13 3	0 53	15 51	1 37	15 58	2 4	23 21	0 10	22 10	0 57	23 5	17 23	23 26	23 32	10 4		n.a.
S 3	9 20	6 37	5 4	2 47	3 33	13 25	1 25	13 19	0 54	15 53	1 37	15 58	2 4	23 22	0 10	22 10	0 57	23 5	17 23	23 27	23 32	10 1		n.a.
M 4	8 57	11 24	5 1	2 53	3 36	12 59	1 25	13 34	0 54	15 55	1 37	15 58	2 4	23 22	0 10	22 10	0 57	23 6	17 23	23 28	23 32	9 59		n.a.
T 5	8 35	15 48	4 43	2 55	3 37	12 32	1 25	13 49	0 55	15 58	1 37	15 58	2 4	23 22	0 10	22 10	0 57	23 6	17 23	23 28	23 32	9 56		n.a.
W 6	8 13	19 35	4 13	2 54	3 37	12 5	1 25	14 5	0 56	16 0	1 37	15 58	2 4	23 22	0 10	22 10	0 57	23 7	17 23	23 28	23 32	9 53		n.a.
T 7	7 50	22 32	3 29	2 48	3 36	11 37	1 25	14 20	0 56	16 2	1 37	15 57	2 5	23 22	0 10	22 11	0 57	23 7	17 23	23 29	23 33	9 50		n.a.
F 8	7 27	24 22	2 33	2 38	3 34	11 10	1 25	14 35	0 57	16 5	1 37	15 57	2 5	23 22	0 10	22 11	0 57	23 8	17 23	23 29	23 33	9 47		n.a.
S 9	7 5	24 52	1 28	2 24	3 30	10 42	1 25	14 50	0 57	16 7	1 37	15 57	2 5	23 22	0 10	22 11	0 57	23 8	17 23	23 29	23 33	9 45		n.a.
S 10	6 42	23 53	0 16	2 4	3 25	10 13	1 25	15 5	0 58	16 9	1 37	15 57	2 5	23 22	0 10	22 11	0 57	23 8	17 23	23 29	23 33	9 42		n.a.
M11	6 18	21 21	1s 0	1 40	3 17	9 45	1 25	15 20	0 58	16 11	1 37	15 57	2 5	23 22	0 10	22 11	0 57	23 9	17 23	23 29	23 33	9 39		n.a.
T 12	5 55	17 24	2 13	1 10	3 8	9 16	1 25	15 34	0 59	16 13	1 36	15 56	2 5	23 23	0 10	22 11	0 57	23 9	17 23	23 29	23 33	9 36		n.a.
W13	5 32	12 16	3 19	0 37	2 57	8 47	1 25	15 49	0 59	16 15	1 36	15 56	2 6	23 23	0 10	22 11	0 57	23 10	17 23	23 29	23 33	9 33		n.a.
T 14	5 9	6 20	4 11	0n 1	2 43	8 18	1 24	16 3	1 0	16 17	1 36	15 55	2 6	23 23	0 10	22 11	0 57	23 10	17 23	23 30	23 34	9 31		n.a.
F 15	4 45	0 1	4 47	0 43	2 28	7 48	1 24	16 18	1 1	16 19	1 36	15 55	2 6	23 23	0 10	22 11	0 57	23 11	17 23	23 30	23 34	9 28		n.a.
S 16	4 21	6s15	5 1	1 27	2 12	7 18	1 24	16 32	1 1	16 21	1 36	15 55	2 6	23 23	0 10	22 11	0 57	23 11	17 23	23 31	23 34	9 25		n.a.
S 17	3 58	12 2	4 55	2 13	1 53	6 48	1 23	16 46	1 2	16 23	1 36	15 54	2 6	23 23	0 10	22 11	0 57	23 12	17 23	23 31	23 34	9 22		n.a.
M18	3 34	16 59	4 31	2 59	1 34	6 18	1 22	17 0	1 2	16 25	1 36	15 54	2 6	23 23	0 10	22 11	0 57	23 12	17 22	23 32	23 34	9 20		n.a.
T 19	3 10	20 51	3 51	3 45	1 14	5 48	1 22	17 14	1 2	16 26	1 36	15 53	2 6	23 23	0 10	22 11	0 57	23 12	17 22	23 32	23 34	9 17		n.a.
W20	2 46	23 26	2 59	4 29	0 53	5 17	1 21	17 28	1 3	16 28	1 36	15 53	2 7	23 23	0 10	22 12	0 57	23 13	17 22	23 32	23 35	9 14		n.a.
T 21	2 22	24 40	1 59	5 11	0 33	4 46	1 20	17 41	1 3	16 30	1 35	15 52	2 7	23 23	0 10	22 12	0 57	23 13	17 22	23 32	23 35	9 11		n.a.
F 22	1 58	24 35	0 56	5 48	0 13	4 16	1 19	17 55	1 4	16 31	1 35	15 52	2 7	23 23	0 10	22 12	0 56	23 14	17 22	23 33	23 35	9 8		n.a.
S 23	1 34	23 18	0n 9	6 21	0n 7	3 45	1 19	18 8	1 4	16 33	1 35	15 51	2 7	23 23	0 10	22 12	0 56	23 14	17 22	23 33	23 35	9 6		n.a.
S 24	1 10	20 58	1 12	6 49	0 25	3 14	1 18	18 21	1 5	16 34	1 35	15 50	2 7	23 23	0 10	22 12	0 56	23 14	17 22	23 33	23 35	9 3		n.a.
M25	0 46	17 46	2 11	7 11	0 42	2 42	1 17	18 34	1 5	16 35	1 35	15 50	2 7	23 23	0 10	22 12	0 56	23 15	17 22	23 33	23 35	9 0		n.a.
T 26	0 22	13 52	3 4	7 27	0 57	2 11	1 16	18 47	1 6	16 37	1 35	15 49	2 7	23 23	0 10	22 12	0 56	23 15	17 22	23 33	23 35	8 57		n.a.
W27	0s 2	9 27	3 49	7 38	1 11	1 40	1 14	19 0	1 6	16 38	1 34	15 48	2 7	23 23	0 10	22 12	0 56	23 15	17 22	23 33	23 36	8 54		n.a.
T 28	0 26	4 41	4 24	7 43	1 23	1 8	1 13	19 12	1 6	16 39	1 34	15 47	2 8	23 23	0 10	22 12	0 56	23 16	17 22	23 34	23 36	8 52		n.a.
F 29	0 50	0n18	4 48	7 42	1 34	0 37	1 12	19 25	1 7	16 40	1 34	15 47	2 8	23 23	0 10	22 12	0 56	23 16	17 21	23 34	23 36	8 49		n.a.
S 30	1s14	5n18	4n59	7n36	1n43	0n 6	1n11	19s37	1s 7	16s41	1s34	15n46	2s 8	23n23	0n10	22s13	0n56	23s16	17s21	23s35	23s36	8s46		n.a.

Julian Day Number = 1666878.5, Delta T = 03h22m41s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'43, Lahiri = - 6°00'43 Julian Calendar 1 Sept. 150 BCE == Greg. Calendar 29 Aug. 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

OCTOBER 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 23 23	4♎ 4'48	14♈ 5	15♍37	3♎43	22♏58	19°R15	19°R29	18°R40	17♐46	11°R27	5°R34	5♑26	27♒22	n.a.	S 1
M 2	0 27 20	5° 4'56	26°28	16°30	4°58	23°43	19♒11	19♉26	18♊39	17°47	11♓26	5♑20	5°23	27°29	n.a.	M 2
T 3	0 31 16	6° 5'06	9♉ 1	17°29	6°13	24°28	19° 8	19°23	18°39	17°48	11°25	5° 9	5°20	27°35	n.a.	T 3
W 4	0 35 13	7° 5'18	21°44	18°34	7°29	25°13	19° 5	19°20	18°39	17°49	11°24	5° 1	5°16	27°42	n.a.	W 4
T 5	0 39 10	8° 5'32	4♊38	19°44	8°44	25°58	19° 2	19°17	18°38	17°50	11°23	4°55	5°13	27°49	n.a.	T 5
F 6	0 43 6	9° 5'48	17°46	20°59	10° 0	26°43	18°59	19°14	18°38	17°51	11°22	4°53	5°10	27°55	n.a.	F 6
S 7	0 47 3	10° 6'07	1♋ 8	22°18	11°15	27°28	18°57	19°11	18°38	17°52	11°21	4°52	5° 7	28° 2	n.a.	S 7
S 8	0 50 59	11° 6'27	14°48	23°40	12°30	28°14	18°55	19° 8	18°37	17°53	11°20	4°52	5° 4	28° 9	n.a.	S 8
M 9	0 54 56	12° 6'50	28°47	25° 5	13°46	28°59	18°53	19° 4	18°37	17°54	11°19	4°51	5° 0	28°15	n.a.	M 9
T 10	0 58 52	13° 7'14	13♌ 5	26°32	15° 1	29°44	18°51	19° 1	18°36	17°55	11°18	4°49	4°57	28°22	n.a.	T 10
W11	1 2 49	14° 7'41	27°41	28° 0	16°17	0♐30	18°49	18°57	18°35	17°57	11°17	4°43	4°54	28°29	n.a.	W11
T 12	1 6 45	15° 8'10	12♍30	29°31	17°32	1°15	18°48	18°54	18°35	17°58	11°16	4°35	4°51	28°35	n.a.	T 12
F 13	1 10 42	16° 8'40	27°24	1♎ 2	18°48	2° 1	18°47	18°50	18°34	17°59	11°15	4°25	4°48	28°42	n.a.	F 13
S 14	1 14 39	17° 9'12	12♎16	2°35	20° 3	2°47	18°46	18°46	18°33	18° 0	11°14	4°13	4°45	28°49	n.a.	S 14
S 15	1 18 35	18° 9'46	26°56	4° 9	21°19	3°32	18°45	18°42	18°32	18° 2	11°13	4° 2	4°41	28°56	n.a.	S 15
M16	1 22 32	19°10'22	11♏16	5°43	22°34	4°18	18°44	18°38	18°31	18° 3	11°12	3°52	4°38	29° 2	n.a.	M16
T 17	1 26 28	20°10'59	25°12	7°17	23°50	5° 4	18°44	18°34	18°30	18° 5	11°12	3°44	4°35	29° 9	n.a.	T 17
W18	1 30 25	21°11'38	8♐39	8°52	25° 5	5°50	18°D44	18°30	18°29	18° 6	11°11	3°39	4°32	29°16	n.a.	W18
T 19	1 34 21	22°12'18	21°40	10°27	26°21	6°36	18°44	18°26	18°28	18° 7	11°10	3°36	4°29	29°22	n.a.	T 19
F 20	1 38 18	23°12'59	4♑17	12° 3	27°36	7°22	18°44	18°22	18°27	18° 9	11° 9	3°D36	4°25	29°29	n.a.	F 20
S 21	1 42 14	24°13'42	16°35	13°38	28°51	8° 8	18°44	18°18	18°26	18°10	11° 8	3°36	4°22	29°36	n.a.	S 21
S 22	1 46 11	25°14'26	28°37	15°14	0♏ 7	8°54	18°45	18°13	18°25	18°12	11° 7	3°R36	4°19	29°42	n.a.	S 22
M23	1 50 8	26°15'11	10♒31	16°49	1°22	9°40	18°46	18° 9	18°23	18°13	11° 7	3°35	4°16	29°49	n.a.	M23
T 24	1 54 4	27°15'57	22°20	18°25	2°38	10°26	18°47	18° 4	18°22	18°15	11° 6	3°32	4°13	29°56	n.a.	T 24
W25	1 58 1	28°16'44	4♓11	20° 0	3°53	11°12	18°48	18° 0	18°21	18°17	11° 5	3°26	4°10	0♓ 3	n.a.	W25
T 26	2 1 57	29°17'32	16° 7	21°35	5° 9	11°59	18°49	17°55	18°19	18°18	11° 4	3°17	4° 6	0° 9	n.a.	T 26
F 27	2 5 54	0♏18'22	28°11	23°10	6°24	12°45	18°51	17°51	18°18	18°20	11° 4	3° 7	4° 3	0°16	n.a.	F 27
S 28	2 9 50	1°19'12	10♈26	24°46	7°40	13°31	18°53	17°46	18°16	18°22	11° 3	2°55	4° 0	0°23	n.a.	S 28
S 29	2 13 47	2°20'04	22°54	26°20	8°55	14°18	18°55	17°41	18°15	18°23	11° 2	2°43	3°57	0°29	n.a.	S 29
M30	2 17 43	3°20'57	5♉33	27°55	10°10	15° 4	18°57	17°37	18°13	18°25	11° 2	2°32	3°54	0°36	n.a.	M30
T 31	2 21 40	4♏21'52	18♉25	29♎30	11♏26	15♐50	19♒ 0	17♉32	18♊12	18♐27	11♓ 1	2♑23	3♑51	0♓43	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	1s38	10n 9	4n56	7n26	1n51	0s26	1n 9	19s49	1s 8	16s42	1s34	15n45	2s 8	23n24	0n10	22s13	0n56	23s17	17s21	23s36	23s36	8s43			n.a.
M 2	2 2	14 40	4 40	7 11	1 57	0 57	1 8	20 1	1 8	16 43	1 33	15 44	2 8	23 24	0 10	22 13	0 56	23 17	17 21	23 36	23 36	8 40			n.a.
T 3	2 27	18 36	4 10	6 52	2 2	1 29	1 6	20 12	1 8	16 44	1 33	15 43	2 8	23 24	0 10	22 13	0 56	23 17	17 21	23 37	23 36	8 38			n.a.
W 4	2 51	21 43	3 27	6 29	2 5	2 0	1 5	20 24	1 9	16 45	1 33	15 42	2 8	23 23	0 10	22 13	0 56	23 17	17 21	23 37	23 36	8 35			n.a.
T 5	3 15	23 48	2 32	6 4	2 8	2 32	1 3	20 35	1 9	16 45	1 33	15 41	2 8	23 23	0 10	22 13	0 56	23 18	17 20	23 37	23 37	8 32			n.a.
F 6	3 39	24 37	1 29	5 35	2 9	3 3	1 2	20 46	1 9	16 46	1 33	15 41	2 8	23 23	0 10	22 13	0 56	23 18	17 20	23 37	23 37	8 29			n.a.
S 7	4 3	24 2	0 20	5 4	2 9	3 35	1 0	20 57	1 10	16 47	1 32	15 40	2 9	23 23	0 10	22 14	0 56	23 18	17 20	23 37	23 37	8 26			n.a.
S 8	4 27	22 1	0s52	4 31	2 9	4 6	0 58	21 8	1 10	16 47	1 32	15 39	2 9	23 23	0 10	22 14	0 56	23 18	17 20	23 37	23 37	8 24			n.a.
M 9	4 50	18 38	2 3	3 56	2 8	4 37	0 57	21 18	1 10	16 47	1 32	15 38	2 9	23 23	0 10	22 14	0 56	23 19	17 20	23 37	23 37	8 21			n.a.
T 10	5 14	14 5	3 7	3 19	2 6	5 8	0 55	21 29	1 11	16 48	1 32	15 37	2 9	23 23	0 10	22 14	0 56	23 19	17 20	23 37	23 37	8 18			n.a.
W11	5 38	8 39	4 1	2 41	2 3	5 39	0 53	21 39	1 11	16 48	1 32	15 35	2 9	23 23	0 10	22 14	0 56	23 19	17 19	23 38	23 37	8 15			n.a.
T 12	6 2	2 39	4 39	2 2	2 0	6 10	0 51	21 48	1 11	16 48	1 31	15 34	2 9	23 23	0 10	22 14	0 56	23 19	17 19	23 38	23 37	8 12			n.a.
F 13	6 25	3s31	4 59	1 21	1 56	6 41	0 49	21 58	1 11	16 49	1 31	15 33	2 9	23 23	0 10	22 14	0 56	23 19	17 19	23 38	23 38	8 10			n.a.
S 14	6 49	9 28	4 58	0 40	1 52	7 12	0 47	22 8	1 12	16 49	1 31	15 32	2 9	23 23	0 10	22 15	0 56	23 19	17 19	23 39	23 38	8 7			n.a.
S 15	7 12	14 48	4 37	0s 1	1 48	7 42	0 45	22 17	1 12	16 49	1 31	15 31	2 9	23 23	0 10	22 15	0 56	23 20	17 19	23 39	23 38	8 4			n.a.
M16	7 35	19 10	4 0	0 43	1 43	8 13	0 43	22 26	1 12	16 49	1 30	15 30	2 9	23 23	0 10	22 15	0 56	23 20	17 18	23 39	23 38	8 1			n.a.
T 17	7 59	22 20	3 9	1 26	1 38	8 43	0 41	22 35	1 12	16 49	1 30	15 29	2 9	23 23	0 10	22 15	0 55	23 20	17 18	23 40	23 38	7 58			n.a.
W18	8 22	24 7	2 8	2 9	1 32	9 13	0 39	22 43	1 13	16 48	1 30	15 28	2 9	23 23	0 10	22 15	0 55	23 20	17 18	23 40	23 38	7 55			n.a.
T 19	8 45	24 30	1 3	2 52	1 27	9 42	0 37	22 51	1 13	16 48	1 30	15 26	2 9	23 23	0 10	22 15	0 55	23 20	17 18	23 40	23 38	7 53			n.a.
F 20	9 7	23 35	0n 4	3 35	1 21	10 12	0 35	22 59	1 13	16 48	1 29	15 25	2 9	23 23	0 11	22 16	0 55	23 20	17 17	23 40	23 38	7 50			n.a.
S 21	9 30	21 32	1 9	4 18	1 15	10 41	0 33	23 7	1 13	16 48	1 29	15 24	2 9	23 23	0 11	22 16	0 55	23 20	17 17	23 40	23 38	7 47			n.a.
S 22	9 52	18 34	2 9	5 1	1 8	11 10	0 31	23 15	1 14	16 47	1 29	15 23	2 9	23 23	0 11	22 16	0 55	23 20	17 17	23 40	23 39	7 44			n.a.
M23	10 15	14 52	3 3	5 44	1 2	11 39	0 28	23 22	1 14	16 47	1 29	15 22	2 10	23 22	0 11	22 16	0 55	23 21	17 17	23 40	23 39	7 41			n.a.
T 24	10 37	10 37	3 49	6 26	0 56	12 7	0 26	23 29	1 14	16 46	1 29	15 20	2 10	23 22	0 11	22 16	0 55	23 21	17 16	23 40	23 39	7 39			n.a.
W25	10 59	5 58	4 25	7 9	0 49	12 35	0 24	23 36	1 14	16 45	1 28	15 19	2 10	23 22	0 11	22 16	0 55	23 21	17 16	23 40	23 39	7 36			n.a.
T 26	11 21	1 6	4 50	7 51	0 43	13 3	0 22	23 43	1 14	16 45	1 28	15 18	2 10	23 22	0 11	22 17	0 55	23 21	17 16	23 40	23 39	7 33			n.a.
F 27	11 43	3n53	5 2	8 33	0 36	13 30	0 19	23 49	1 14	16 44	1 28	15 16	2 10	23 22	0 11	22 17	0 55	23 21	17 15	23 41	23 39	7 30			n.a.
S 28	12 4	8 46	5 1	9 14	0 29	13 57	0 17	23 55	1 15	16 43	1 28	15 15	2 10	23 22	0 11	22 17	0 55	23 21	17 15	23 41	23 39	7 27			n.a.
S 29	12 25	13 24	4 45	9 56	0 23	14 24	0 15	24 1	1 15	16 42	1 27	15 14	2 10	23 22	0 11	22 17	0 55	23 21	17 15	23 41	23 39	7 25			n.a.
M30	12 46	17 31	4 15	10 36	0 16	14 51	0 12	24 6	1 15	16 41	1 27	15 13	2 10	23 22	0 11	22 17	0 55	23 21	17 15	23 41	23 39	7 22			n.a.
T 31	13s 7	20n53	3n32	11s17	0n 9	15s17	0n10	24s12	1s15	16s40	1s27	15n11	2s10	23n22	0n11	22s17	0n55	23s21	17s14	23s41	23s39	7s19			n.a.

Julian Day Number = 1666908.5, Delta T = 03h22m40s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'39, Lahiri = - 6°00'39 Julian Calendar 1 Oct. 150 BCE == Greg. Calendar 28 Sept. 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

NOVEMBER 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 25 37	5♏22'47	1♊28	1♏ 5	12♏41	16♐37	19♒ 2	17°R27	18°R10	18♐28	11°R 0	2°R16	3♑47	0♓49	n.a.	W 1
T 2	2 29 33	6°23'44	14°42	2°39	13°57	17°23	19° 5	17♉22	18♊ 8	18°30	11♓ 0	2♑12	3°44	0°56	n.a.	T 2
F 3	2 33 30	7°24'43	28° 7	4°14	15°12	18°10	19° 8	17°17	18° 7	18°32	10°59	2°D11	3°41	1° 3	n.a.	F 3
S 4	2 37 26	8°25'42	11♋42	5°48	16°28	18°56	19°12	17°13	18° 5	18°34	10°59	2°11	3°38	1°10	n.a.	S 4
S 5	2 41 23	9°26'43	25°28	7°23	17°43	19°43	19°15	17° 8	18° 3	18°36	10°58	2°12	3°35	1°16	n.a.	S 5
M 6	2 45 19	10°27'45	9♌24	8°57	18°58	20°30	19°19	17° 3	18° 1	18°38	10°58	2°R13	3°31	1°23	n.a.	M 6
T 7	2 49 16	11°28'49	23°32	10°31	20°14	21°16	19°23	16°58	17°59	18°39	10°57	2°12	3°28	1°30	n.a.	T 7
W 8	2 53 12	12°29'54	7♍48	12° 6	21°29	22° 3	19°27	16°53	17°57	18°41	10°57	2° 9	3°25	1°36	n.a.	W 8
T 9	2 57 9	13°30'59	22°12	13°40	22°45	22°50	19°31	16°48	17°55	18°43	10°56	2° 5	3°22	1°43	n.a.	T 9
F 10	3 1 6	14°32'06	6♎39	15°14	24° 0	23°36	19°35	16°43	17°53	18°45	10°56	1°58	3°19	1°50	n.a.	F 10
S 11	3 5 2	15°33'14	21° 4	16°49	25°15	24°23	19°40	16°38	17°51	18°47	10°55	1°50	3°16	1°56	n.a.	S 11
S 12	3 8 59	16°34'23	5♏20	18°23	26°31	25°10	19°45	16°33	17°49	18°49	10°55	1°42	3°12	2° 3	n.a.	S 12
M13	3 12 55	17°35'33	19°21	19°58	27°46	25°57	19°50	16°28	17°47	18°51	10°55	1°35	3° 9	2°10	n.a.	M13
T 14	3 16 52	18°36'44	3♐ 4	21°33	29° 2	26°44	19°55	16°23	17°45	18°53	10°54	1°30	3° 6	2°17	n.a.	T 14
W15	3 20 48	19°37'55	16°25	23° 7	0♐17	27°31	20° 0	16°18	17°43	18°55	10°54	1°27	3° 3	2°23	n.a.	W15
T 16	3 24 45	20°39'07	29°24	24°42	1°32	28°17	20° 6	16°13	17°40	18°57	10°54	1°D26	3° 0	2°30	n.a.	T 16
F 17	3 28 41	21°40'19	12♑ 2	26°17	2°48	29° 4	20°11	16° 8	17°38	18°59	10°53	1°26	2°57	2°37	n.a.	F 17
S 18	3 32 38	22°41'31	24°22	27°52	4° 3	29°51	20°17	16° 3	17°36	19° 1	10°53	1°28	2°53	2°43	n.a.	S 18
S 19	3 36 35	23°42'44	6♒27	29°27	5°18	0♑38	20°23	15°58	17°34	19° 4	10°53	1°29	2°50	2°50	n.a.	S 19
M20	3 40 31	24°43'57	18°23	1♐ 3	6°34	1°25	20°30	15°53	17°31	19° 6	10°53	1°31	2°47	2°57	n.a.	M20
T 21	3 44 28	25°45'10	0♓14	2°38	7°49	2°12	20°36	15°48	17°29	19° 8	10°52	1°R31	2°44	3° 4	n.a.	T 21
W22	3 48 24	26°46'23	12° 6	4°14	9° 4	2°59	20°43	15°44	17°27	19°10	10°52	1°29	2°41	3°10	n.a.	W22
T 23	3 52 21	27°47'37	24° 3	5°50	10°20	3°46	20°49	15°39	17°24	19°12	10°52	1°26	2°37	3°17	n.a.	T 23
F 24	3 56 17	28°48'50	6♈10	7°26	11°35	4°33	20°56	15°34	17°22	19°14	10°52	1°22	2°34	3°24	n.a.	F 24
S 25	4 0 14	29°50'04	18°30	9° 2	12°50	5°20	21° 3	15°29	17°19	19°16	10°52	1°17	2°31	3°30	n.a.	S 25
S 26	4 4 10	0♐51'17	1♉ 6	10°38	14° 5	6° 8	21°10	15°24	17°17	19°19	10°52	1°11	2°28	3°37	n.a.	S 26
M27	4 8 7	1°52'31	13°59	12°14	15°21	6°55	21°18	15°20	17°14	19°21	10°52	1° 6	2°25	3°44	n.a.	M27
T 28	4 12 4	2°53'45	27° 9	13°50	16°36	7°42	21°25	15°15	17°12	19°23	10°52	1° 2	2°22	3°50	n.a.	T 28
W29	4 16 0	3°54'59	10♊35	15°26	17°51	8°29	21°33	15°11	17° 9	19°25	10°D52	0°59	2°18	3°57	n.a.	W29
T 30	4 19 57	4♐56'13	24♊15	17♐ 2	19♐ 6	9♑16	21♒41	15♉ 6	17♊ 7	19♐27	10♓52	0°D58	2♑15	4♓ 4	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s28	23n15	2n37	11s56	0n 3	15s42	0n 7	24s17	1s15	16s39	1s27	15n10	2s10	23n21	0n11	22s18	0n55	23s21	17s14	23s42	23s40	7s16		n.a.
T 2	13 48	24 21	1 32	12 36	0s 4	16 8	0 5	24 21	1 15	16 38	1 26	15 9	2 10	23 21	0 11	22 18	0 55	23 21	17 14	23 42	23 40	7 13		n.a.
F 3	14 9	24 4	0 22	13 14	0 11	16 32	0 3	24 26	1 15	16 37	1 26	15 7	2 9	23 21	0 11	22 18	0 55	23 21	17 13	23 42	23 40	7 10		n.a.
S 4	14 29	22 21	0s51	13 53	0 17	16 57	0 0	24 30	1 15	16 36	1 26	15 6	2 9	23 21	0 11	22 18	0 55	23 20	17 13	23 42	23 40	7 8		n.a.
S 5	14 48	19 18	2 2	14 30	0 24	17 21	0s 2	24 34	1 15	16 34	1 26	15 4	2 9	23 21	0 11	22 18	0 55	23 20	17 13	23 42	23 40	7 5		n.a.
M 6	15 8	15 7	3 6	15 7	0 30	17 44	0 5	24 37	1 15	16 33	1 25	15 3	2 9	23 21	0 11	22 19	0 55	23 20	17 12	23 42	23 40	7 2		n.a.
T 7	15 27	10 3	4 0	15 43	0 36	18 7	0 7	24 41	1 16	16 31	1 25	15 2	2 9	23 21	0 11	22 19	0 55	23 20	17 12	23 42	23 40	6 59		n.a.
W 8	15 46	4 24	4 40	16 19	0 42	18 30	0 9	24 44	1 16	16 30	1 25	15 0	2 9	23 20	0 11	22 19	0 55	23 20	17 12	23 42	23 40	6 56		n.a.
T 9	16 5	1s30	5 3	16 54	0 48	18 52	0 12	24 47	1 16	16 28	1 25	14 59	2 9	23 20	0 11	22 19	0 55	23 20	17 11	23 42	23 40	6 54		n.a.
F 10	16 23	7 21	5 6	17 28	0 54	19 13	0 14	24 49	1 16	16 27	1 24	14 58	2 9	23 20	0 11	22 19	0 55	23 20	17 11	23 42	23 40	6 51		n.a.
S 11	16 41	12 47	4 50	18 1	1 0	19 34	0 17	24 51	1 16	16 25	1 24	14 56	2 9	23 20	0 11	22 20	0 55	23 20	17 11	23 42	23 40	6 48		n.a.
S 12	16 59	17 28	4 17	18 33	1 6	19 54	0 19	24 53	1 16	16 23	1 24	14 55	2 9	23 20	0 11	22 20	0 55	23 20	17 10	23 42	23 40	6 45		n.a.
M13	17 16	21 5	3 28	19 5	1 11	20 14	0 21	24 55	1 16	16 22	1 24	14 54	2 9	23 20	0 11	22 20	0 55	23 19	17 10	23 42	23 41	6 42		n.a.
T 14	17 34	23 25	2 27	19 35	1 17	20 33	0 24	24 56	1 16	16 20	1 23	14 52	2 9	23 19	0 11	22 20	0 55	23 19	17 10	23 42	23 41	6 39		n.a.
W15	17 51	24 21	1 21	20 5	1 22	20 52	0 26	24 57	1 16	16 18	1 23	14 51	2 9	23 19	0 11	22 20	0 55	23 19	17 9	23 42	23 41	6 37		n.a.
T 16	18 7	23 54	0 11	20 34	1 27	21 10	0 28	24 58	1 16	16 16	1 23	14 50	2 9	23 19	0 11	22 21	0 55	23 19	17 9	23 42	23 41	6 34		n.a.
F 17	18 23	22 13	0n57	21 2	1 32	21 28	0 31	24 58	1 16	16 14	1 23	14 48	2 9	23 19	0 11	22 21	0 55	23 19	17 9	23 42	23 41	6 31		n.a.
S 18	18 39	19 30	2 2	21 29	1 36	21 44	0 33	24 58	1 16	16 12	1 23	14 47	2 8	23 19	0 11	22 21	0 54	23 18	17 8	23 42	23 41	6 28		n.a.
S 19	18 55	15 59	2 59	21 54	1 41	22 1	0 35	24 58	1 16	16 9	1 22	14 46	2 8	23 18	0 11	22 21	0 54	23 18	17 8	23 42	23 41	6 25		n.a.
M20	19 10	11 53	3 48	22 19	1 45	22 16	0 38	24 58	1 16	16 7	1 22	14 44	2 8	23 18	0 11	22 21	0 54	23 18	17 8	23 42	23 41	6 23		n.a.
T 21	19 25	7 22	4 27	22 42	1 49	22 31	0 40	24 57	1 15	16 5	1 22	14 43	2 8	23 18	0 11	22 22	0 54	23 18	17 7	23 42	23 41	6 20		n.a.
W22	19 39	2 34	4 54	23 4	1 52	22 45	0 42	24 56	1 15	16 3	1 22	14 42	2 8	23 18	0 11	22 22	0 54	23 17	17 7	23 42	23 41	6 17		n.a.
T 23	19 54	2n20	5 9	23 25	1 56	22 59	0 44	24 55	1 15	16 0	1 21	14 40	2 8	23 18	0 11	22 22	0 54	23 17	17 7	23 42	23 41	6 14		n.a.
F 24	20 7	7 13	5 11	23 45	1 59	23 12	0 47	24 53	1 15	15 58	1 21	14 39	2 8	23 17	0 11	22 22	0 54	23 17	17 6	23 42	23 41	6 11		n.a.
S 25	20 21	11 55	4 58	24 3	2 1	23 24	0 49	24 51	1 15	15 55	1 21	14 38	2 8	23 17	0 11	22 22	0 54	23 17	17 6	23 42	23 41	6 8		n.a.
S 26	20 34	16 12	4 31	24 20	2 4	23 36	0 51	24 49	1 15	15 53	1 21	14 37	2 7	23 17	0 11	22 22	0 54	23 16	17 5	23 42	23 41	6 6		n.a.
M27	20 46	19 51	3 49	24 36	2 6	23 46	0 53	24 47	1 15	15 50	1 21	14 35	2 7	23 17	0 11	22 23	0 54	23 16	17 5	23 43	23 41	6 3		n.a.
T 28	20 59	22 35	2 55	24 50	2 7	23 56	0 55	24 44	1 15	15 47	1 20	14 34	2 7	23 16	0 11	22 23	0 54	23 16	17 5	23 43	23 42	6 0		n.a.
W29	21 10	24 6	1 50	25 2	2 8	24 6	0 57	24 41	1 15	15 45	1 20	14 33	2 7	23 16	0 11	22 23	0 54	23 15	17 4	23 43	23 42	5 57		n.a.
T 30	21s22	24n12	0n37	25s13	2s 9	24s14	0s59	24s38	1s15	15s42	1s20	14n32	2s 7	23n16	0n11	22s23	0n54	23s15	17s 4	23s43	23s42	5s54		n.a.

Julian Day Number = 1666939.5, Delta T = 03h22m39s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'35, Lahiri = - 6°00'35 Julian Calendar 1 Nov. 150 BCE == Greg. Calendar 29 Oct. 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 150 BCE
geocentric

DECEMBER 150 BCE (-149) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 23 53	5♐57'27	8♋ 7	18♐38	20♐22	10♑ 3	21♒49	15°R 1	17°R 4	19♐30	10♓52	0♑58	2♑12	4♓11	n.a.	F 1
S 2	4 27 50	6°58'42	22° 7	20°14	21°37	10°50	21°57	14♉57	17♊ 2	19°32	10°52	0°59	2° 9	4°17	n.a.	S 2
S 3	4 31 46	7°59'57	6♌13	21°49	22°52	11°37	22° 5	14°53	16°59	19°34	10°52	1° 0	2° 6	4°24	n.a.	S 3
M 4	4 35 43	9° 1'11	20°22	23°24	24° 7	12°24	22°14	14°48	16°57	19°36	10°52	1° 1	2° 3	4°31	n.a.	M 4
T 5	4 39 40	10° 2'26	4♍33	24°58	25°22	13°12	22°22	14°44	16°54	19°38	10°52	1°R 2	1°59	4°37	n.a.	T 5
W 6	4 43 36	11° 3'41	18°43	26°32	26°37	13°59	22°31	14°40	16°52	19°41	10°52	1° 2	1°56	4°44	n.a.	W 6
T 7	4 47 33	12° 4'57	2♎50	28° 4	27°53	14°46	22°40	14°36	16°49	19°43	10°53	1° 1	1°53	4°51	n.a.	T 7
F 8	4 51 29	13° 6'12	16°53	29°35	29° 8	15°33	22°49	14°32	16°46	19°45	10°53	0°59	1°50	4°58	n.a.	F 8
S 9	4 55 26	14° 7'27	0♏48	1♑ 5	0♑23	16°20	22°58	14°28	16°44	19°48	10°53	0°57	1°47	5° 4	n.a.	S 9
S 10	4 59 22	15° 8'43	14°34	2°32	1°38	17° 7	23° 7	14°24	16°41	19°50	10°53	0°55	1°43	5°11	n.a.	S 10
M11	5 3 19	16° 9'58	28° 8	3°57	2°53	17°54	23°17	14°20	16°39	19°52	10°54	0°52	1°40	5°18	n.a.	M11
T 12	5 7 15	17°11'13	11♐27	5°20	4° 8	18°42	23°26	14°16	16°36	19°54	10°54	0°51	1°37	5°24	n.a.	T 12
W13	5 11 12	18°12'27	24°31	6°39	5°23	19°29	23°36	14°12	16°33	19°57	10°54	0°D50	1°34	5°31	n.a.	W13
T 14	5 15 9	19°13'41	7♑18	7°54	6°38	20°16	23°46	14° 9	16°31	19°59	10°54	0°50	1°31	5°38	n.a.	T 14
F 15	5 19 5	20°14'55	19°50	9° 4	7°53	21° 3	23°55	14° 5	16°28	20° 1	10°55	0°51	1°28	5°45	n.a.	F 15
S 16	5 23 2	21°16'07	2♒ 7	10°10	9° 8	21°50	24° 6	14° 2	16°26	20° 3	10°55	0°52	1°24	5°51	n.a.	S 16
S 17	5 26 58	22°17'19	14°12	11° 9	10°23	22°37	24°16	13°58	16°23	20° 6	10°56	0°53	1°21	5°58	n.a.	S 17
M18	5 30 55	23°18'30	26° 9	12° 1	11°38	23°24	24°26	13°55	16°21	20° 8	10°56	0°54	1°18	6° 5	n.a.	M18
T 19	5 34 51	24°19'40	8♓ 1	12°45	12°53	24°11	24°36	13°52	16°18	20°10	10°57	0°54	1°15	6°11	n.a.	T 19
W20	5 38 48	25°20'49	19°52	13°20	14° 8	24°59	24°47	13°49	16°15	20°13	10°57	0°55	1°12	6°18	n.a.	W20
T 21	5 42 44	26°21'58	1♈49	13°46	15°23	25°46	24°57	13°46	16°13	20°15	10°58	0°R55	1° 9	6°25	n.a.	T 21
F 22	5 46 41	27°23'05	13°54	14° 2	16°38	26°33	25° 8	13°43	16°10	20°17	10°58	0°54	1° 5	6°32	n.a.	F 22
S 23	5 50 38	28°24'11	26°14	14°R 6	17°53	27°20	25°19	13°40	16° 8	20°19	10°59	0°54	1° 2	6°38	n.a.	S 23
S 24	5 54 34	29°25'16	8♉51	14° 0	19° 8	28° 7	25°30	13°37	16° 5	20°22	10°59	0°54	0°59	6°45	n.a.	S 24
M25	5 58 31	0♑26'20	21°49	13°41	20°23	28°54	25°41	13°35	16° 3	20°24	11° 0	0°D54	0°56	6°52	n.a.	M25
T 26	6 2 27	1°27'23	5♊ 9	13°11	21°38	29°41	25°52	13°32	16° 0	20°26	11° 0	0°54	0°53	6°58	n.a.	T 26
W27	6 6 24	2°28'24	18°51	12°31	22°52	0♒28	26° 3	13°30	15°58	20°28	11° 1	0°54	0°49	7° 5	n.a.	W27
T 28	6 10 20	3°29'25	2♋54	11°40	24° 7	1°15	26°15	13°28	15°55	20°31	11° 2	0°R54	0°46	7°12	n.a.	T 28
F 29	6 14 17	4°30'25	17°13	10°41	25°22	2° 2	26°26	13°25	15°53	20°33	11° 2	0°54	0°43	7°18	n.a.	F 29
S 30	6 18 14	5°31'24	1♌43	9°34	26°37	2°49	26°38	13°23	15°51	20°35	11° 3	0°53	0°40	7°25	n.a.	S 30
S 31	6 22 10	6♑32'21	16♌18	8♑23	27♑51	3♒36	26♒49	13♉21	15♊48	20♐37	11♓ 4	0♑53	0♑37	7♓32	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s33	22n49	0s39	25s22	2s 9	24s22	1s 1	24s34	1s14	15s39	1s20	14n31	2s 7	23n16	0n11	22s23	0n54	23s15	17s 4	23s43	23s42	5s52		n.a.
S 2	21 43	20 0	1 54	25 30	2 9	24 29	1 3	24 30	1 14	15 36	1 20	14 30	2 6	23 15	0 11	22 24	0 54	23 14	17 3	23 43	23 42	5 49		n.a.
S 3	21 54	16 0	3 2	25 36	2 8	24 36	1 5	24 26	1 14	15 33	1 19	14 29	2 6	23 15	0 11	22 24	0 54	23 14	17 3	23 43	23 42	5 46		n.a.
M 4	22 3	11 5	3 59	25 40	2 7	24 41	1 6	24 21	1 14	15 30	1 19	14 27	2 6	23 15	0 11	22 24	0 54	23 14	17 3	23 43	23 42	5 43		n.a.
T 5	22 13	5 34	4 42	25 42	2 5	24 46	1 8	24 17	1 14	15 27	1 19	14 26	2 6	23 15	0 11	22 24	0 54	23 13	17 2	23 43	23 42	5 40		n.a.
W 6	22 21	0s12	5 8	25 42	2 2	24 50	1 10	24 12	1 14	15 24	1 19	14 25	2 6	23 15	0 11	22 24	0 54	23 13	17 2	23 43	23 42	5 37		n.a.
T 7	22 30	5 57	5 15	25 41	1 59	24 53	1 12	24 6	1 14	15 21	1 19	14 24	2 5	23 14	0 11	22 25	0 54	23 12	17 1	23 43	23 42	5 35		n.a.
F 8	22 38	11 22	5 3	25 38	1 55	24 56	1 13	24 1	1 13	15 18	1 18	14 23	2 5	23 14	0 11	22 25	0 54	23 12	17 1	23 43	23 42	5 32		n.a.
S 9	22 45	16 9	4 34	25 33	1 50	24 58	1 15	23 55	1 13	15 15	1 18	14 22	2 5	23 14	0 11	22 25	0 54	23 11	17 1	23 43	23 42	5 29		n.a.
S 10	22 52	20 1	3 49	25 26	1 44	24 58	1 16	23 49	1 13	15 12	1 18	14 21	2 5	23 14	0 11	22 25	0 54	23 11	17 0	23 43	23 42	5 26		n.a.
M11	22 59	22 45	2 51	25 17	1 38	24 59	1 18	23 42	1 13	15 8	1 18	14 20	2 5	23 13	0 11	22 25	0 54	23 11	17 0	23 43	23 42	5 23		n.a.
T 12	23 5	24 9	1 45	25 7	1 31	24 58	1 19	23 35	1 13	15 5	1 18	14 19	2 4	23 13	0 11	22 26	0 54	23 10	17 0	23 43	23 42	5 21		n.a.
W13	23 11	24 11	0 35	24 55	1 22	24 57	1 21	23 28	1 12	15 1	1 17	14 19	2 4	23 13	0 11	22 26	0 54	23 10	16 59	23 43	23 42	5 18		n.a.
T 14	23 16	22 55	0n36	24 41	1 13	24 54	1 22	23 21	1 12	14 58	1 17	14 18	2 4	23 13	0 11	22 26	0 54	23 9	16 59	23 43	23 42	5 15		n.a.
F 15	23 21	20 32	1 43	24 26	1 2	24 51	1 23	23 14	1 12	14 55	1 17	14 17	2 4	23 12	0 11	22 26	0 54	23 9	16 59	23 43	23 42	5 12		n.a.
S 16	23 25	17 14	2 45	24 10	0 51	24 48	1 24	23 6	1 12	14 51	1 17	14 16	2 4	23 12	0 11	22 26	0 54	23 8	16 58	23 43	23 42	5 9		n.a.
S 17	23 29	13 17	3 38	23 52	0 38	24 43	1 25	22 58	1 11	14 47	1 17	14 15	2 3	23 12	0 11	22 26	0 54	23 8	16 58	23 43	23 42	5 6		n.a.
M18	23 33	8 51	4 21	23 34	0 24	24 38	1 27	22 49	1 11	14 44	1 17	14 14	2 3	23 11	0 11	22 27	0 54	23 7	16 57	23 43	23 42	5 4		n.a.
T 19	23 35	4 9	4 52	23 15	0 10	24 32	1 28	22 41	1 11	14 40	1 16	14 14	2 3	23 11	0 11	22 27	0 54	23 7	16 57	23 43	23 42	5 1		n.a.
W20	23 38	0n43	5 11	22 56	0n 6	24 25	1 29	22 32	1 11	14 36	1 16	14 13	2 3	23 11	0 11	22 27	0 54	23 6	16 57	23 43	23 42	4 58		n.a.
T 21	23 40	5 34	5 17	22 37	0 23	24 18	1 29	22 23	1 10	14 33	1 16	14 12	2 2	23 11	0 11	22 27	0 54	23 6	16 56	23 43	23 42	4 55		n.a.
F 22	23 41	10 17	5 9	22 18	0 40	24 9	1 30	22 14	1 10	14 29	1 16	14 12	2 2	23 10	0 11	22 27	0 54	23 5	16 56	23 43	23 43	4 52		n.a.
S 23	23 42	14 41	4 47	21 59	0 59	24 0	1 31	22 4	1 10	14 25	1 16	14 11	2 2	23 10	0 11	22 28	0 54	23 5	16 56	23 43	23 43	4 50		n.a.
S 24	23 43	18 33	4 10	21 41	1 17	23 51	1 32	21 54	1 9	14 21	1 16	14 11	2 2	23 10	0 11	22 28	0 54	23 4	16 55	23 43	23 43	4 47		n.a.
M25	23 43	21 39	3 20	21 24	1 36	23 40	1 32	21 44	1 9	14 17	1 15	14 10	2 1	23 10	0 11	22 28	0 54	23 4	16 55	23 43	23 43	4 44		n.a.
T 26	23 42	23 40	2 18	21 9	1 55	23 29	1 33	21 34	1 9	14 13	1 15	14 10	2 1	23 9	0 11	22 28	0 54	23 3	16 55	23 43	23 43	4 41		n.a.
W27	23 41	24 20	1 6	20 55	2 13	23 17	1 34	21 24	1 8	14 9	1 15	14 9	2 1	23 9	0 11	22 28	0 54	23 2	16 54	23 43	23 43	4 38		n.a.
T 28	23 40	23 30	0s11	20 42	2 30	23 5	1 34	21 13	1 8	14 5	1 15	14 9	2 1	23 9	0 11	22 28	0 54	23 2	16 54	23 43	23 43	4 35		n.a.
F 29	23 38	21 7	1 29	20 31	2 46	22 51	1 34	21 2	1 8	14 1	1 15	14 8	2 0	23 9	0 11	22 29	0 54	23 1	16 54	23 43	23 43	4 33		n.a.
S 30	23 36	17 22	2 43	20 22	3 1	22 37	1 35	20 51	1 7	13 57	1 15	14 8	2 0	23 8	0 11	22 29	0 54	23 1	16 53	23 43	23 43	4 30		n.a.
S 31	23s33	12n32	3s46	20s14	3n13	22s23	1s35	20s40	1s 7	13s53	1s15	14n 7	2s 0	23n 8	0n11	22s29	0n54	23s 0	16s53	23s43	23s43	4s27		n.a.

Julian Day Number = 1666969.5, Delta T = 03h22m38s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'31, Lahiri = - 6°00'31 Julian Calendar 1 Dec. 150 BCE == Greg. Calendar 28 Nov. 150 BCE

The year -149 astronomical counting style corresponds to year 150 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

JANUARY 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 26 7	7♑33'18	0♍53	7°R 9	29♑ 6	4♒23	27♒ 1	13°R20	15°R46	20♐39	11♓ 5	0°R52	0♑34	7♓39	n.a.	M 1
T 2	6 30 3	8°34'14	15°22	5♑55	0♒21	5°10	27°13	13♉18	15♊43	20°42	11° 5	0♑51	0°30	7°45	n.a.	T 2
W 3	6 34 0	9°35'09	29°40	4°42	1°35	5°56	27°25	13°16	15°41	20°44	11° 6	0°51	0°27	7°52	n.a.	W 3
T 4	6 37 56	10°36'03	13♎45	3°32	2°50	6°43	27°37	13°15	15°39	20°46	11° 7	0°D51	0°24	7°59	n.a.	T 4
F 5	6 41 53	11°36'56	27°36	2°27	4° 5	7°30	27°49	13°13	15°37	20°48	11° 8	0°51	0°21	8° 5	n.a.	F 5
S 6	6 45 49	12°37'48	11♏11	1°29	5°19	8°17	28° 1	13°12	15°34	20°50	11° 9	0°52	0°18	8°12	n.a.	S 6
S 7	6 49 46	13°38'39	24°33	0°38	6°34	9° 4	28°13	13°11	15°32	20°52	11° 9	0°53	0°15	8°19	n.a.	S 7
M 8	6 53 43	14°39'29	7♐40	29♐55	7°48	9°50	28°26	13° 9	15°30	20°55	11°10	0°54	0°11	8°26	n.a.	M 8
T 9	6 57 39	15°40'18	20°34	29°20	9° 3	10°37	28°38	13° 8	15°28	20°57	11°11	0°55	0° 8	8°32	n.a.	T 9
W10	7 1 36	16°41'06	3♑16	28°54	10°17	11°24	28°51	13° 8	15°26	20°59	11°12	0°R55	0° 5	8°39	n.a.	W10
T 11	7 5 32	17°41'52	15°46	28°35	11°32	12°11	29° 3	13° 7	15°24	21° 1	11°13	0°55	0° 2	8°46	n.a.	T 11
F 12	7 9 29	18°42'37	28° 5	28°25	12°46	12°57	29°16	13° 6	15°21	21° 3	11°14	0°53	29♐59	8°52	n.a.	F 12
S 13	7 13 25	19°43'20	10♒15	28°D22	14° 0	13°44	29°28	13° 6	15°19	21° 5	11°15	0°51	29°55	8°59	n.a.	S 13
S 14	7 17 22	20°44'01	22°16	28°26	15°15	14°31	29°41	13° 5	15°17	21° 7	11°16	0°47	29°52	9° 6	n.a.	S 14
M15	7 21 18	21°44'41	4♓12	28°37	16°29	15°17	29°54	13° 5	15°16	21° 9	11°17	0°44	29°49	9°13	n.a.	M15
T 16	7 25 15	22°45'19	16° 3	28°55	17°43	16° 4	0♓ 7	13° 5	15°14	21°11	11°18	0°40	29°46	9°19	n.a.	T 16
W17	7 29 12	23°45'55	27°55	29°18	18°57	16°50	0°20	13°D 5	15°12	21°13	11°19	0°37	29°43	9°26	n.a.	W17
T 18	7 33 8	24°46'29	9♈49	29°46	20°12	17°37	0°33	13° 5	15°10	21°15	11°20	0°35	29°40	9°33	n.a.	T 18
F 19	7 37 5	25°47'01	21°52	0♑20	21°26	18°23	0°46	13° 5	15° 8	21°17	11°21	0°D34	29°36	9°39	n.a.	F 19
S 20	7 41 1	26°47'32	4♉ 8	0°58	22°40	19°10	0°59	13° 5	15° 6	21°19	11°22	0°34	29°33	9°46	n.a.	S 20
S 21	7 44 58	27°48'00	16°40	1°40	23°54	19°56	1°13	13° 5	15° 5	21°21	11°23	0°36	29°30	9°53	n.a.	S 21
M22	7 48 54	28°48'27	29°34	2°26	25° 8	20°42	1°26	13° 6	15° 3	21°23	11°24	0°37	29°27	10° 0	n.a.	M22
T 23	7 52 51	29°48'51	12♊53	3°16	26°22	21°29	1°39	13° 6	15° 1	21°25	11°26	0°39	29°24	10° 6	n.a.	T 23
W24	7 56 47	0♒49'14	26°39	4° 9	27°36	22°15	1°53	13° 7	15° 0	21°27	11°27	0°R40	29°20	10°13	n.a.	W24
T 25	8 0 44	1°49'34	10♋51	5° 5	28°50	23° 1	2° 6	13° 8	14°58	21°28	11°28	0°39	29°17	10°20	n.a.	T 25
F 26	8 4 41	2°49'53	25°26	6° 4	0♓ 4	23°47	2°20	13° 9	14°57	21°30	11°29	0°38	29°14	10°27	n.a.	F 26
S 27	8 8 37	3°50'10	10♌19	7° 6	1°17	24°33	2°33	13°10	14°55	21°32	11°30	0°34	29°11	10°33	n.a.	S 27
S 28	8 12 34	4°50'25	25°22	8°10	2°31	25°20	2°47	13°11	14°54	21°34	11°31	0°29	29° 8	10°40	n.a.	S 28
M29	8 16 30	5°50'38	10♍24	9°17	3°45	26° 6	3° 0	13°12	14°52	21°36	11°33	0°24	29° 5	10°47	n.a.	M29
T 30	8 20 27	6°50'49	25°18	10°25	4°58	26°52	3°14	13°14	14°51	21°37	11°34	0°19	29° 1	10°53	n.a.	T 30
W31	8 24 23	7♒50'58	9♎55	11♑36	6♓12	27♒38	3♓28	13♉15	14♊50	21♐39	11♓35	0♑15	28♐58	11♓ 0	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23s30	7n 0	4s35	20s 8	3n23	22s 7	1s35	20s28	1s 7	13s49	1s14	14n 7	2s 0	23n 8	0n11	22s29	0n54	23s 0	16s53	23s43	23s43	4s24		n.a.
T 2	23 26	1 9	5 5	20 4	3 31	21 51	1 35	20 16	1 6	13 44	1 14	14 7	1 59	23 8	0 11	22 29	0 54	22 59	16 52	23 43	23 43	4 21		n.a.
W 3	23 22	4s42	5 17	20 1	3 37	21 35	1 35	20 4	1 6	13 40	1 14	14 7	1 59	23 7	0 11	22 29	0 54	22 58	16 52	23 43	23 43	4 19		n.a.
T 4	23 17	10 13	5 9	20 0	3 40	21 18	1 35	19 52	1 6	13 36	1 14	14 6	1 59	23 7	0 11	22 29	0 54	22 58	16 52	23 43	23 43	4 16		n.a.
F 5	23 12	15 8	4 43	20 1	3 40	21 0	1 35	19 39	1 5	13 31	1 14	14 6	1 58	23 7	0 11	22 30	0 54	22 57	16 51	23 43	23 43	4 13		n.a.
S 6	23 6	19 11	4 2	20 4	3 39	20 41	1 35	19 27	1 5	13 27	1 14	14 6	1 58	23 7	0 11	22 30	0 54	22 57	16 51	23 43	23 43	4 10		n.a.
S 7	23 0	22 9	3 8	20 7	3 35	20 22	1 35	19 14	1 5	13 23	1 14	14 6	1 58	23 6	0 11	22 30	0 54	22 56	16 51	23 43	23 43	4 7		n.a.
M 8	22 54	23 54	2 5	20 13	3 30	20 3	1 34	19 1	1 4	13 18	1 14	14 6	1 58	23 6	0 11	22 30	0 54	22 55	16 50	23 43	23 43	4 4		n.a.
T 9	22 47	24 19	0 57	20 19	3 24	19 42	1 34	18 48	1 4	13 14	1 13	14 6	1 57	23 6	0 11	22 30	0 54	22 55	16 50	23 43	23 43	4 2		n.a.
W10	22 39	23 27	0n13	20 27	3 16	19 22	1 33	18 34	1 3	13 9	1 13	14 6	1 57	23 6	0 11	22 30	0 54	22 54	16 50	23 43	23 43	3 59		n.a.
T 11	22 32	21 26	1 21	20 35	3 7	19 0	1 33	18 21	1 3	13 5	1 13	14 6	1 57	23 6	0 11	22 30	0 54	22 53	16 50	23 43	23 43	3 56		n.a.
F 12	22 23	18 25	2 24	20 45	2 57	18 39	1 32	18 7	1 3	13 0	1 13	14 6	1 56	23 5	0 11	22 31	0 54	22 53	16 49	23 43	23 43	3 53		n.a.
S 13	22 15	14 40	3 20	20 55	2 47	18 16	1 32	17 53	1 2	12 55	1 13	14 6	1 56	23 5	0 12	22 31	0 54	22 52	16 49	23 43	23 43	3 50		n.a.
S 14	22 6	10 22	4 6	21 6	2 36	17 54	1 31	17 39	1 2	12 51	1 13	14 6	1 56	23 5	0 12	22 31	0 54	22 52	16 49	23 43	23 43	3 48		n.a.
M15	21 56	5 43	4 41	21 17	2 25	17 30	1 30	17 25	1 1	12 46	1 13	14 6	1 56	23 5	0 12	22 31	0 54	22 51	16 48	23 43	23 43	3 45		n.a.
T 16	21 46	0 54	5 4	21 28	2 14	17 7	1 29	17 10	1 1	12 41	1 13	14 7	1 55	23 4	0 12	22 31	0 54	22 50	16 48	23 43	23 43	3 42		n.a.
W17	21 36	3n57	5 14	21 40	2 3	16 42	1 28	16 56	1 0	12 37	1 13	14 7	1 55	23 4	0 12	22 31	0 54	22 50	16 48	23 43	23 43	3 39		n.a.
T 18	21 25	8 41	5 10	21 52	1 51	16 18	1 27	16 41	1 0	12 32	1 12	14 7	1 55	23 4	0 12	22 31	0 54	22 49	16 48	23 43	23 43	3 36		n.a.
F 19	21 14	13 8	4 53	22 3	1 40	15 52	1 26	16 26	1 0	12 27	1 12	14 8	1 54	23 4	0 12	22 32	0 54	22 48	16 47	23 43	23 43	3 34		n.a.
S 20	21 2	17 8	4 22	22 14	1 28	15 27	1 25	16 11	0 59	12 22	1 12	14 8	1 54	23 4	0 12	22 32	0 54	22 48	16 47	23 43	23 43	3 31		n.a.
S 21	20 50	20 29	3 38	22 25	1 17	15 1	1 23	15 56	0 59	12 17	1 12	14 8	1 54	23 3	0 12	22 32	0 54	22 47	16 47	23 43	23 43	3 28		n.a.
M22	20 38	22 56	2 42	22 36	1 6	14 35	1 22	15 40	0 58	12 13	1 12	14 9	1 54	23 3	0 12	22 32	0 54	22 46	16 47	23 43	23 43	3 25		n.a.
T 23	20 25	24 11	1 36	22 45	0 55	14 8	1 21	15 25	0 58	12 8	1 12	14 9	1 53	23 3	0 12	22 32	0 54	22 46	16 46	23 43	23 43	3 22		n.a.
W24	20 12	24 2	0 22	22 55	0 44	13 41	1 19	15 9	0 57	12 3	1 12	14 10	1 53	23 3	0 12	22 32	0 54	22 45	16 46	23 43	23 43	3 20		n.a.
T 25	19 59	22 21	0s55	23 3	0 34	13 14	1 18	14 54	0 57	11 58	1 12	14 10	1 53	23 3	0 12	22 32	0 54	22 44	16 46	23 43	23 43	3 17		n.a.
F 26	19 45	19 9	2 11	23 11	0 23	12 46	1 16	14 38	0 56	11 53	1 12	14 11	1 52	23 3	0 12	22 32	0 54	22 44	16 46	23 43	23 43	3 14		n.a.
S 27	19 31	14 39	3 20	23 18	0 13	12 18	1 14	14 22	0 56	11 48	1 12	14 11	1 52	23 2	0 12	22 32	0 54	22 43	16 45	23 43	23 43	3 11		n.a.
S 28	19 16	9 13	4 15	23 24	0 3	11 49	1 13	14 6	0 55	11 43	1 12	14 12	1 52	23 2	0 12	22 33	0 54	22 42	16 45	23 43	23 43	3 8		n.a.
M29	19 2	3 15	4 52	23 29	0s 6	11 21	1 11	13 49	0 55	11 38	1 12	14 13	1 52	23 2	0 12	22 33	0 54	22 42	16 45	23 43	23 43	3 5		n.a.
T 30	18 46	2s50	5 10	23 33	0 15	10 52	1 9	13 33	0 54	11 33	1 11	14 13	1 51	23 2	0 12	22 33	0 54	22 41	16 45	23 43	23 43	3 3		n.a.
W31	18s31	8s39	5s 7	23s36	0s24	10s23	1s 7	13s17	0s54	11s28	1s11	14n14	1s51	23n 2	0n12	22s33	0n54	22s40	16s45	23s43	23s43	3s 0		n.a.

Julian Day Number = 1667000.5, Delta T = 03h22m37s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'27, Lahiri = - 6°00'26 Julian Calendar 1 Jan. 149 BCE == Greg. Calendar 29 Dec. 150 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

FEBRUARY 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 28 20	8♒51'06	24♎11	12♑48	7♓26	28♒24	3♓41	13♉17	14°R49	21♐41	11♓36	0°R12	28♐55	11♓ 7	n.a.	T 1
F 2	8 32 16	9°51'13	8♏ 3	14° 3	8°39	29°10	3°55	13°19	14♊47	21°43	11°38	0°D11	28°52	11°14	n.a.	F 2
S 3	8 36 13	10°51'18	21°33	15°19	9°53	29°56	4° 9	13°21	14°46	21°44	11°39	0♑11	28°49	11°20	n.a.	S 3
S 4	8 40 10	11°51'21	4♐42	16°37	11° 6	0♓41	4°23	13°22	14°45	21°46	11°40	0°13	28°46	11°27	n.a.	S 4
M 5	8 44 6	12°51'22	17°33	17°56	12°19	1°27	4°37	13°25	14°44	21°47	11°41	0°14	28°42	11°34	n.a.	M 5
T 6	8 48 3	13°51'22	0♑ 9	19°17	13°33	2°13	4°51	13°27	14°43	21°49	11°43	0°R15	28°39	11°40	n.a.	T 6
W 7	8 51 59	14°51'20	12°32	20°39	14°46	2°59	5° 5	13°29	14°42	21°51	11°44	0°14	28°36	11°47	n.a.	W 7
T 8	8 55 56	15°51'16	24°46	22° 3	15°59	3°45	5°19	13°31	14°41	21°52	11°45	0°11	28°33	11°54	n.a.	T 8
F 9	8 59 52	16°51'09	6♒53	23°28	17°12	4°30	5°33	13°34	14°40	21°54	11°47	0° 6	28°30	12° 1	n.a.	F 9
S 10	9 3 49	17°51'01	18°53	24°55	18°25	5°16	5°47	13°36	14°40	21°55	11°48	29♐58	28°26	12° 7	n.a.	S 10
S 11	9 7 45	18°50'51	0♓49	26°23	19°38	6° 1	6° 1	13°39	14°39	21°57	11°49	29°49	28°23	12°14	n.a.	S 11
M12	9 11 42	19°50'39	12°42	27°52	20°51	6°47	6°15	13°42	14°38	21°58	11°51	29°39	28°20	12°21	n.a.	M12
T 13	9 15 39	20°50'24	24°33	29°22	22° 4	7°33	6°30	13°45	14°38	21°59	11°52	29°29	28°17	12°27	n.a.	T 13
W14	9 19 35	21°50'07	6♈25	0♒54	23°17	8°18	6°44	13°48	14°37	22° 1	11°54	29°20	28°14	12°34	n.a.	W14
T 15	9 23 32	22°49'48	18°21	2°27	24°30	9° 3	6°58	13°51	14°36	22° 2	11°55	29°13	28°11	12°41	n.a.	T 15
F 16	9 27 28	23°49'27	0♉23	4° 1	25°43	9°49	7°12	13°54	14°36	22° 3	11°56	29° 8	28° 7	12°48	n.a.	F 16
S 17	9 31 25	24°49'03	12°35	5°37	26°55	10°34	7°27	13°57	14°35	22° 5	11°58	29° 5	28° 4	12°54	n.a.	S 17
S 18	9 35 21	25°48'37	25° 3	7°13	28° 8	11°19	7°41	14° 1	14°35	22° 6	11°59	29°D 4	28° 1	13° 1	n.a.	S 18
M19	9 39 18	26°48'09	7♊51	8°52	29°20	12° 5	7°55	14° 4	14°35	22° 7	12° 0	29° 4	27°58	13° 8	n.a.	M19
T 20	9 43 14	27°47'38	21° 2	10°31	0♈33	12°50	8°10	14° 8	14°35	22° 8	12° 2	29° 5	27°55	13°14	n.a.	T 20
W21	9 47 11	28°47'05	4♋41	12°11	1°45	13°35	8°24	14°12	14°34	22°10	12° 3	29°R 5	27°52	13°21	n.a.	W21
T 22	9 51 7	29°46'29	18°49	13°53	2°57	14°20	8°38	14°15	14°34	22°11	12° 5	29° 3	27°48	13°28	n.a.	T 22
F 23	9 55 4	0♓45'51	3♌25	15°36	4°10	15° 5	8°53	14°19	14°34	22°12	12° 6	28°59	27°45	13°35	n.a.	F 23
S 24	9 59 1	1°45'11	18°24	17°21	5°22	15°50	9° 7	14°23	14°D34	22°13	12° 8	28°53	27°42	13°41	n.a.	S 24
S 25	10 2 57	2°44'28	3♍39	19° 7	6°34	16°35	9°21	14°27	14°34	22°14	12° 9	28°45	27°39	13°48	n.a.	S 25
M26	10 6 54	3°43'43	18°59	20°54	7°46	17°20	9°36	14°32	14°34	22°15	12°11	28°35	27°36	13°55	n.a.	M26
T 27	10 10 50	4°42'56	4♎12	22°42	8°58	18° 5	9°50	14°36	14°34	22°16	12°12	28°25	27°32	14° 2	n.a.	T 27
W28	10 14 47	5°42'07	19° 8	24°32	10° 9	18°49	10° 5	14°40	14°34	22°17	12°13	28°17	27°29	14° 8	n.a.	W28
T 29	10 18 43	6♓41'17	3♏39	26♒23	11♈21	19♓34	10♓19	14♉45	14♊35	22♐18	12♓15	28♐11	27♐26	14♓15	n.a.	T 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s15	13s52	4s44	23s38	0s33	9s53	1s 5	13s 0	0s53	11s22	1s11	14n15	1s51	23n 2	0n12	22s33	0n54	22s40	16s44	23s43	23s43	2s57		n.a.
F 2	17 59	18 13	4 6	23 38	0 41	9 23	1 3	12 43	0 53	11 17	1 11	14 16	1 50	23 2	0 12	22 33	0 54	22 39	16 44	23 43	23 42	2 54		n.a.
S 3	17 43	21 29	3 15	23 38	0 49	8 53	1 1	12 27	0 52	11 12	1 11	14 16	1 50	23 1	0 12	22 33	0 54	22 38	16 44	23 43	23 42	2 51		n.a.
S 4	17 26	23 31	2 14	23 36	0 56	8 23	0 59	12 10	0 52	11 7	1 11	14 17	1 50	23 1	0 12	22 33	0 54	22 38	16 44	23 43	23 42	2 49		n.a.
M 5	17 9	24 15	1 8	23 33	1 4	7 53	0 56	11 53	0 51	11 2	1 11	14 18	1 50	23 1	0 12	22 33	0 54	22 37	16 44	23 43	23 42	2 46		n.a.
T 6	16 51	23 43	0 1	23 29	1 11	7 22	0 54	11 36	0 51	10 56	1 11	14 19	1 49	23 1	0 12	22 33	0 54	22 36	16 44	23 43	23 42	2 43		n.a.
W 7	16 34	22 1	1n 6	23 23	1 17	6 52	0 52	11 19	0 50	10 51	1 11	14 20	1 49	23 1	0 12	22 33	0 54	22 36	16 43	23 43	23 42	2 40		n.a.
T 8	16 16	19 18	2 9	23 16	1 24	6 21	0 49	11 1	0 50	10 46	1 11	14 21	1 49	23 1	0 12	22 34	0 54	22 35	16 43	23 43	23 42	2 38		n.a.
F 9	15 58	15 47	3 5	23 7	1 30	5 50	0 47	10 44	0 49	10 41	1 11	14 22	1 49	23 1	0 12	22 34	0 54	22 34	16 43	23 43	23 42	2 35		n.a.
S 10	15 39	11 40	3 52	22 57	1 35	5 18	0 44	10 27	0 49	10 35	1 11	14 23	1 48	23 1	0 12	22 34	0 54	22 34	16 43	23 43	23 42	2 32		n.a.
S 11	15 21	7 8	4 28	22 45	1 40	4 47	0 42	10 9	0 48	10 30	1 11	14 24	1 48	23 1	0 12	22 34	0 54	22 33	16 43	23 43	23 42	2 29		n.a.
M12	15 2	2 22	4 53	22 32	1 45	4 16	0 39	9 52	0 48	10 25	1 11	14 25	1 48	23 0	0 12	22 34	0 54	22 32	16 43	23 43	23 42	2 26		n.a.
T 13	14 43	2n28	5 5	22 18	1 50	3 44	0 36	9 34	0 47	10 19	1 11	14 26	1 47	23 0	0 12	22 34	0 54	22 32	16 43	23 43	23 42	2 24		n.a.
W14	14 23	7 13	5 3	22 2	1 54	3 13	0 34	9 16	0 47	10 14	1 11	14 27	1 47	23 0	0 12	22 34	0 54	22 31	16 42	23 43	23 42	2 21		n.a.
T 15	14 4	11 43	4 49	21 44	1 57	2 41	0 31	8 59	0 46	10 9	1 11	14 29	1 47	23 0	0 12	22 34	0 54	22 30	16 42	23 43	23 42	2 18		n.a.
F 16	13 44	15 49	4 22	21 25	2 0	2 9	0 28	8 41	0 46	10 3	1 11	14 30	1 47	23 0	0 12	22 34	0 54	22 30	16 42	23 43	23 42	2 15		n.a.
S 17	13 24	19 19	3 42	21 4	2 3	1 37	0 25	8 23	0 45	9 58	1 11	14 31	1 46	23 0	0 12	22 34	0 54	22 29	16 42	23 43	23 42	2 12		n.a.
S 18	13 4	22 1	2 52	20 42	2 6	1 5	0 22	8 5	0 45	9 52	1 11	14 32	1 46	23 0	0 12	22 34	0 54	22 28	16 42	23 43	23 42	2 10		n.a.
M19	12 43	23 42	1 51	20 18	2 8	0 34	0 19	7 47	0 44	9 47	1 11	14 34	1 46	23 0	0 12	22 34	0 54	22 28	16 42	23 43	23 42	2 7		n.a.
T 20	12 23	24 7	0 43	19 52	2 9	0 2	0 16	7 29	0 43	9 42	1 11	14 35	1 46	23 0	0 12	22 34	0 54	22 27	16 42	23 43	23 42	2 4		n.a.
W21	12 2	23 8	0s30	19 25	2 10	0n30	0 13	7 11	0 43	9 36	1 11	14 36	1 45	23 0	0 12	22 34	0 54	22 26	16 42	23 43	23 42	2 1		n.a.
T 22	11 41	20 40	1 43	18 56	2 11	1 2	0 10	6 53	0 42	9 31	1 11	14 38	1 45	23 0	0 12	22 34	0 54	22 26	16 42	23 43	23 42	1 58		n.a.
F 23	11 20	16 49	2 52	18 25	2 11	1 34	0 7	6 35	0 42	9 25	1 10	14 39	1 45	23 0	0 12	22 35	0 54	22 25	16 42	23 43	23 42	1 56		n.a.
S 24	10 58	11 49	3 51	17 53	2 11	2 6	0 4	6 17	0 41	9 20	1 10	14 41	1 45	23 0	0 12	22 35	0 54	22 24	16 41	23 43	23 42	1 53		n.a.
S 25	10 37	6 1	4 35	17 19	2 10	2 37	0 1	5 59	0 41	9 14	1 10	14 42	1 44	23 0	0 12	22 35	0 54	22 24	16 41	23 42	23 42	1 50		n.a.
M26	10 15	0s10	4 59	16 43	2 9	3 9	0n 3	5 40	0 40	9 9	1 10	14 43	1 44	23 0	0 12	22 35	0 54	22 23	16 41	23 42	23 41	1 47		n.a.
T 27	9 53	6 17	5 1	16 6	2 7	3 41	0 6	5 22	0 39	9 3	1 10	14 45	1 44	23 0	0 12	22 35	0 54	22 23	16 41	23 42	23 41	1 45		n.a.
W28	9 32	11 56	4 43	15 27	2 5	4 12	0 9	5 4	0 39	8 58	1 10	14 46	1 44	23 0	0 12	22 35	0 54	22 22	16 41	23 42	23 41	1 42		n.a.
T 29	9s 9	16s45	4s 7	14s46	2s 2	4n44	0n12	4s46	0s38	8s52	1s10	14n48	1s43	23n 0	0n12	22s35	0n54	22s21	16s41	23s42	23s41	1s39		n.a.

Julian Day Number = 1667031.5, Delta T = 03h22m36s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'23, Lahiri = - 6°00'22 Julian Calendar 1 Feb. 149 BCE == Greg. Calendar 29 Jan. 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

MARCH 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 22 40	7♓40'24	17♏43	28♒16	12♈33	20♓19	10♓34	14♉49	14♊35	22♐19	12♓16	28°R 7	27♐23	14♓22	n.a.	F 1
S 2	10 26 36	8°39'30	1♐18	0♓10	13°44	21° 4	10°48	14°54	14°35	22°20	12°18	28♐ 5	27°20	14°28	n.a.	S 2
S 3	10 30 33	9°38'34	14°26	2° 5	14°56	21°48	11° 2	14°58	14°36	22°20	12°19	28°D 5	27°17	14°35	n.a.	S 3
M 4	10 34 30	10°37'36	27°12	4° 2	16° 7	22°33	11°17	15° 3	14°36	22°21	12°21	28°R 5	27°13	14°42	n.a.	M 4
T 5	10 38 26	11°36'36	9♑40	6° 0	17°19	23°17	11°31	15° 8	14°36	22°22	12°22	28° 5	27°10	14°49	n.a.	T 5
W 6	10 42 23	12°35'34	21°54	7°59	18°30	24° 2	11°46	15°13	14°37	22°23	12°24	28° 2	27° 7	14°55	n.a.	W 6
T 7	10 46 19	13°34'30	3♒58	9°59	19°41	24°46	12° 0	15°18	14°38	22°24	12°25	27°57	27° 4	15° 2	n.a.	T 7
F 8	10 50 16	14°33'24	15°55	12° 1	20°52	25°30	12°15	15°23	14°38	22°24	12°27	27°50	27° 1	15° 9	n.a.	F 8
S 9	10 54 12	15°32'17	27°49	14° 4	22° 3	26°15	12°29	15°28	14°39	22°25	12°28	27°39	26°58	15°15	n.a.	S 9
S 10	10 58 9	16°31'07	9♓41	16° 7	23°14	26°59	12°43	15°33	14°40	22°25	12°29	27°26	26°54	15°22	n.a.	S 10
M11	11 2 5	17°29'55	21°33	18°12	24°25	27°43	12°58	15°39	14°40	22°26	12°31	27°12	26°51	15°29	n.a.	M11
T 12	11 6 2	18°28'41	3♈25	20°17	25°35	28°27	13°12	15°44	14°41	22°27	12°32	26°58	26°48	15°36	n.a.	T 12
W13	11 9 58	19°27'25	15°21	22°23	26°46	29°12	13°27	15°50	14°42	22°27	12°34	26°45	26°45	15°42	n.a.	W13
T 14	11 13 55	20°26'07	27°21	24°29	27°57	29°56	13°41	15°55	14°43	22°28	12°35	26°34	26°42	15°49	n.a.	T 14
F 15	11 17 52	21°24'46	9♉27	26°35	29° 7	0♈40	13°55	16° 1	14°44	22°28	12°37	26°25	26°38	15°56	n.a.	F 15
S 16	11 21 48	22°23'24	21°43	28°41	0♉17	1°24	14°10	16° 6	14°45	22°28	12°38	26°20	26°35	16° 2	n.a.	S 16
S 17	11 25 45	23°21'59	4♊11	0♈47	1°27	2° 7	14°24	16°12	14°46	22°29	12°40	26°17	26°32	16° 9	n.a.	S 17
M18	11 29 41	24°20'32	16°56	2°52	2°37	2°51	14°38	16°18	14°47	22°29	12°41	26°16	26°29	16°16	n.a.	M18
T 19	11 33 38	25°19'02	0♋ 2	4°56	3°47	3°35	14°53	16°24	14°49	22°29	12°42	26°16	26°26	16°23	n.a.	T 19
W20	11 37 34	26°17'31	13°32	6°58	4°57	4°19	15° 7	16°30	14°50	22°30	12°44	26°15	26°23	16°29	n.a.	W20
T 21	11 41 31	27°15'57	27°30	8°58	6° 7	5° 3	15°21	16°36	14°51	22°30	12°45	26°13	26°19	16°36	n.a.	T 21
F 22	11 45 27	28°14'21	11♌55	10°57	7°17	5°46	15°35	16°42	14°53	22°30	12°47	26° 9	26°16	16°43	n.a.	F 22
S 23	11 49 24	29°12'42	26°46	12°53	8°26	6°30	15°50	16°48	14°54	22°30	12°48	26° 2	26°13	16°50	n.a.	S 23
S 24	11 53 21	0♈11'01	11♍55	14°47	9°35	7°13	16° 4	16°54	14°55	22°31	12°50	25°52	26°10	16°56	n.a.	S 24
M25	11 57 17	1° 9'19	27°13	16°37	10°45	7°57	16°18	17° 1	14°57	22°31	12°51	25°42	26° 7	17° 3	n.a.	M25
T 26	12 1 14	2° 7'34	12♎30	18°24	11°54	8°40	16°32	17° 7	14°59	22°31	12°52	25°31	26° 3	17°10	n.a.	T 26
W27	12 5 10	3° 5'48	27°33	20° 8	13° 3	9°24	16°46	17°13	15° 0	22°31	12°54	25°21	26° 0	17°16	n.a.	W27
T 28	12 9 7	4° 4'00	12♏15	21°49	14°11	10° 7	17° 0	17°20	15° 2	22°R31	12°55	25°14	25°57	17°23	n.a.	T 28
F 29	12 13 3	5° 2'10	26°28	23°25	15°20	10°50	17°15	17°26	15° 3	22°31	12°56	25° 9	25°54	17°30	n.a.	F 29
S 30	12 17 0	6° 0'19	10♐11	24°58	16°29	11°34	17°29	17°33	15° 5	22°31	12°58	25° 6	25°51	17°37	n.a.	S 30
S 31	12 20 56	6♈58'26	23♐26	26♈26	17♉37	12♈17	17♓43	17♉39	15♊ 7	22♐31	12♓59	25°D 6	25♐48	17♓43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8s47	20s27	3s17	14s 4	1s59	5n15	0n16	4s27	0s38	8s47	1s10	14n50	1s43	23n 0	0n12	22s35	0n55	22s21	16s41	23s42	23s41	1s36		n.a.
S 2	8 25	22 54	2 17	13 20	1 55	5 46	0 19	4 9	0 37	8 41	1 10	14 51	1 43	23 0	0 12	22 35	0 55	22 20	16 41	23 42	23 41	1 33		n.a.
S 3	8 3	23 59	1 12	12 34	1 50	6 17	0 22	3 51	0 37	8 36	1 10	14 53	1 43	23 0	0 12	22 35	0 55	22 20	16 41	23 42	23 41	1 31		n.a.
M 4	7 40	23 46	0 5	11 47	1 46	6 48	0 26	3 32	0 36	8 30	1 10	14 54	1 42	23 0	0 12	22 35	0 55	22 19	16 41	23 42	23 41	1 28		n.a.
T 5	7 17	22 20	1n 1	10 58	1 40	7 19	0 29	3 14	0 35	8 24	1 10	14 56	1 42	23 0	0 12	22 35	0 55	22 18	16 41	23 42	23 41	1 25		n.a.
W 6	6 55	19 54	2 3	10 7	1 34	7 50	0 32	2 56	0 35	8 19	1 10	14 58	1 42	23 0	0 12	22 35	0 55	22 18	16 41	23 42	23 41	1 22		n.a.
T 7	6 32	16 36	2 58	9 16	1 28	8 20	0 36	2 37	0 34	8 13	1 11	14 59	1 42	23 0	0 12	22 35	0 55	22 17	16 41	23 42	23 41	1 20		n.a.
F 8	6 9	12 41	3 44	8 22	1 20	8 51	0 39	2 19	0 34	8 8	1 11	15 1	1 41	23 0	0 12	22 35	0 55	22 17	16 41	23 42	23 41	1 17		n.a.
S 9	5 46	8 17	4 21	7 28	1 13	9 21	0 43	2 1	0 33	8 2	1 11	15 3	1 41	23 1	0 12	22 35	0 55	22 16	16 41	23 42	23 41	1 14		n.a.
S 10	5 23	3 37	4 46	6 32	1 5	9 50	0 46	1 42	0 32	7 57	1 11	15 5	1 41	23 1	0 12	22 35	0 55	22 16	16 41	23 41	23 41	1 11		n.a.
M11	5 0	1n10	4 58	5 35	0 56	10 20	0 50	1 24	0 32	7 51	1 11	15 6	1 41	23 1	0 12	22 35	0 55	22 15	16 41	23 41	23 41	1 8		n.a.
T 12	4 36	5 55	4 58	4 36	0 47	10 49	0 53	1 6	0 31	7 45	1 11	15 8	1 41	23 1	0 12	22 35	0 55	22 14	16 41	23 41	23 40	1 6		n.a.
W13	4 13	10 28	4 44	3 38	0 37	11 19	0 56	0 48	0 31	7 40	1 11	15 10	1 40	23 1	0 12	22 35	0 55	22 14	16 41	23 40	23 40	1 3		n.a.
T 14	3 50	14 39	4 18	2 38	0 27	11 47	1 0	0 29	0 30	7 34	1 11	15 12	1 40	23 1	0 12	22 35	0 55	22 13	16 41	23 40	23 40	1 0		n.a.
F 15	3 27	18 17	3 40	1 38	0 17	12 16	1 3	0 11	0 29	7 29	1 11	15 14	1 40	23 1	0 12	22 35	0 55	22 13	16 41	23 40	23 40	0 57		n.a.
S 16	3 3	21 9	2 52	0 37	0 6	12 44	1 7	0n 7	0 29	7 23	1 11	15 15	1 40	23 1	0 12	22 35	0 55	22 12	16 41	23 40	23 40	0 55		n.a.
S 17	2 40	23 5	1 54	0n23	0n 5	13 12	1 10	0 25	0 28	7 18	1 11	15 17	1 39	23 1	0 12	22 35	0 55	22 12	16 42	23 40	23 40	0 52		n.a.
M18	2 16	23 53	0 49	1 23	0 16	13 40	1 13	0 44	0 28	7 12	1 11	15 19	1 39	23 2	0 12	22 35	0 55	22 11	16 42	23 40	23 40	0 49		n.a.
T 19	1 53	23 23	0s20	2 23	0 27	14 8	1 17	1 2	0 27	7 7	1 11	15 21	1 39	23 2	0 12	22 35	0 55	22 11	16 42	23 40	23 40	0 46		n.a.
W20	1 29	21 31	1 30	3 23	0 38	14 35	1 20	1 20	0 26	7 1	1 11	15 23	1 39	23 2	0 12	22 35	0 55	22 10	16 42	23 40	23 40	0 44		n.a.
T 21	1 6	18 20	2 37	4 21	0 49	15 1	1 23	1 38	0 26	6 55	1 11	15 25	1 39	23 2	0 12	22 35	0 55	22 10	16 42	23 40	23 40	0 41		n.a.
F 22	0 42	13 57	3 36	5 18	1 0	15 28	1 27	1 56	0 25	6 50	1 11	15 27	1 38	23 2	0 12	22 35	0 55	22 9	16 42	23 39	23 40	0 38		n.a.
S 23	0 19	8 37	4 22	6 14	1 11	15 54	1 30	2 14	0 25	6 44	1 11	15 29	1 38	23 2	0 12	22 35	0 55	22 9	16 42	23 39	23 40	0 35		n.a.
S 24	0n 4	2 41	4 52	7 9	1 22	16 19	1 33	2 32	0 24	6 39	1 11	15 31	1 38	23 2	0 12	22 35	0 55	22 8	16 42	23 39	23 39	0 33		n.a.
M25	0 28	3s28	5 0	8 1	1 32	16 45	1 37	2 50	0 23	6 33	1 11	15 33	1 38	23 3	0 12	22 35	0 55	22 8	16 42	23 39	23 39	0 30		n.a.
T 26	0 51	9 24	4 47	8 52	1 42	17 9	1 40	3 8	0 23	6 28	1 11	15 35	1 38	23 3	0 12	22 35	0 55	22 7	16 42	23 38	23 39	0 27		n.a.
W27	1 15	14 40	4 15	9 40	1 51	17 34	1 43	3 26	0 22	6 22	1 11	15 37	1 38	23 3	0 12	22 35	0 55	22 7	16 42	23 38	23 39	0 24		n.a.
T 28	1 38	18 57	3 26	10 27	2 0	17 58	1 46	3 43	0 22	6 17	1 11	15 39	1 37	23 3	0 12	22 35	0 55	22 7	16 43	23 38	23 39	0 22		n.a.
F 29	2 1	21 56	2 25	11 11	2 8	18 21	1 49	4 1	0 21	6 11	1 11	15 41	1 37	23 3	0 12	22 35	0 55	22 6	16 43	23 37	23 39	0 19		n.a.
S 30	2 25	23 31	1 18	11 52	2 16	18 44	1 52	4 19	0 20	6 6	1 11	15 43	1 37	23 4	0 12	22 35	0 55	22 6	16 43	23 37	23 39	0 16		n.a.
S 31	2n48	23s42	0s 9	12n32	2n23	19n 7	1n55	4n36	0s20	6s 0	1s12	15n45	1s37	23n 4	0n12	22s35	0n55	22s 5	16s43	23s37	23s39	0s13		n.a.

Julian Day Number = 1667060.5, Delta T = 03h22m36s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'19, Lahiri = - 6°00'18 Julian Calendar 1 March 149 BCE == Greg. Calendar 27 Feb. 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

APRIL 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 24 53	7♈56'32	6♉15	27♈51	18♉45	13♈ 0	17♓57	17♉46	15♊ 9	22°R31	13♓ 1	25°R 6	25♐44	17♓50	n.a.	M 1
T 2	12 28 50	8°54'36	18°43	29°11	19°53	13°43	18°10	17°53	15°11	22♐30	13° 2	25♐ 5	25°41	17°57	n.a.	T 2
W 3	12 32 46	9°52'38	0♒55	0♉27	21° 1	14°26	18°24	18° 0	15°13	22°30	13° 3	25° 4	25°38	18° 3	n.a.	W 3
T 4	12 36 43	10°50'40	12°56	1°38	22° 9	15° 9	18°38	18° 6	15°15	22°30	13° 4	25° 0	25°35	18°10	n.a.	T 4
F 5	12 40 39	11°48'39	24°51	2°45	23°17	15°52	18°52	18°13	15°17	22°30	13° 6	24°53	25°32	18°17	n.a.	F 5
S 6	12 44 36	12°46'37	6♓42	3°47	24°25	16°35	19° 6	18°20	15°19	22°30	13° 7	24°43	25°29	18°24	n.a.	S 6
S 7	12 48 32	13°44'34	18°32	4°45	25°32	17°18	19°20	18°27	15°21	22°29	13° 8	24°32	25°25	18°30	n.a.	S 7
M 8	12 52 29	14°42'29	0♈26	5°38	26°39	18° 0	19°33	18°34	15°23	22°29	13°10	24°19	25°22	18°37	n.a.	M 8
T 9	12 56 25	15°40'22	12°23	6°26	27°46	18°43	19°47	18°41	15°25	22°29	13°11	24° 7	25°19	18°44	n.a.	T 9
W10	13 0 22	16°38'14	24°25	7° 9	28°53	19°26	20° 1	18°48	15°27	22°28	13°12	23°55	25°16	18°51	n.a.	W10
T 11	13 4 18	17°36'04	6♉33	7°48	29°59	20° 9	20°14	18°55	15°30	22°28	13°13	23°45	25°13	18°57	n.a.	T 11
F 12	13 8 15	18°33'53	18°50	8°21	1♊ 6	20°51	20°28	19° 2	15°32	22°27	13°15	23°37	25° 9	19° 4	n.a.	F 12
S 13	13 12 12	19°31'40	1♊15	8°50	2°13	21°34	20°41	19°10	15°34	22°27	13°16	23°32	25° 6	19°11	n.a.	S 13
S 14	13 16 8	20°29'26	13°53	9°13	3°19	22°16	20°55	19°17	15°37	22°26	13°17	23°30	25° 3	19°17	n.a.	S 14
M15	13 20 5	21°27'09	26°44	9°32	4°25	22°59	21° 8	19°24	15°39	22°26	13°18	23°D30	25° 0	19°24	n.a.	M15
T 16	13 24 1	22°24'51	9♋52	9°46	5°31	23°41	21°22	19°31	15°42	22°25	13°19	23°30	24°57	19°31	n.a.	T 16
W17	13 27 58	23°22'32	23°21	9°54	6°36	24°23	21°35	19°39	15°44	22°25	13°21	23°R31	24°54	19°38	n.a.	W17
T 18	13 31 54	24°20'10	7♌11	9°R58	7°42	25° 6	21°48	19°46	15°47	22°24	13°22	23°30	24°50	19°44	n.a.	T 18
F 19	13 35 51	25°17'47	21°24	9°57	8°47	25°48	22° 1	19°54	15°49	22°23	13°23	23°27	24°47	19°51	n.a.	F 19
S 20	13 39 47	26°15'22	5♍58	9°51	9°52	26°30	22°14	20° 1	15°52	22°22	13°24	23°23	24°44	19°58	n.a.	S 20
S 21	13 43 44	27°12'55	20°49	9°41	10°56	27°12	22°27	20° 9	15°54	22°22	13°25	23°16	24°41	20° 4	n.a.	S 21
M22	13 47 41	28°10'27	5♎51	9°27	12° 1	27°54	22°40	20°16	15°57	22°21	13°26	23° 8	24°38	20°11	n.a.	M22
T 23	13 51 37	29° 7'58	20°54	9° 9	13° 5	28°36	22°53	20°24	16° 0	22°20	13°27	23° 0	24°34	20°18	n.a.	T 23
W24	13 55 34	0♉ 5'27	5♏48	8°47	14° 9	29°18	23° 6	20°31	16° 2	22°19	13°28	22°53	24°31	20°25	n.a.	W24
T 25	13 59 30	1° 2'56	20°25	8°21	15°13	0♉ 0	23°19	20°39	16° 5	22°19	13°30	22°47	24°28	20°31	n.a.	T 25
F 26	14 3 27	2° 0'23	4♐39	7°54	16°16	0°42	23°32	20°46	16° 8	22°18	13°31	22°44	24°25	20°38	n.a.	F 26
S 27	14 7 23	2°57'49	18°25	7°23	17°19	1°24	23°45	20°54	16°11	22°17	13°32	22°D42	24°22	20°45	n.a.	S 27
S 28	14 11 20	3°55'14	1♑45	6°51	18°22	2° 6	23°57	21° 2	16°14	22°16	13°33	22°42	24°19	20°52	n.a.	S 28
M29	14 15 16	4°52'39	14°39	6°18	19°25	2°48	24°10	21° 9	16°17	22°15	13°34	22°43	24°15	20°58	n.a.	M29
T 30	14 19 13	5♉50'02	27♑11	5♉45	20♊27	3♉29	24♓22	21♉17	16♊20	22♐14	13♓35	22♐45	24♐12	21♓ 5	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	3n11	22s35	0n59	13n 8	2n29	19n29	1n58	4n54	0s19	5s55	1s12	15n47	1s37	23n 4	0n12	22s35	0n55	22s 5	16s43	23s37	23s39	0s11		n.a.
T 2	3 34	20 23	2 2	13 42	2 34	19 51	2 1	5 11	0 18	5 49	1 12	15 49	1 36	23 4	0 12	22 35	0 55	22 5	16 43	23 37	23 39	0 8		n.a.
W 3	3 57	17 18	2 58	14 13	2 38	20 12	2 4	5 29	0 18	5 44	1 12	15 51	1 36	23 4	0 12	22 35	0 55	22 4	16 43	23 37	23 38	0 5		n.a.
T 4	4 20	13 32	3 45	14 42	2 42	20 33	2 7	5 46	0 17	5 39	1 12	15 53	1 36	23 5	0 12	22 35	0 55	22 4	16 44	23 37	23 38	0 2		n.a.
F 5	4 43	9 17	4 21	15 8	2 45	20 53	2 9	6 3	0 17	5 33	1 12	15 55	1 36	23 5	0 12	22 35	0 55	22 3	16 44	23 37	23 38	0n 0		n.a.
S 6	5 6	4 43	4 47	15 31	2 46	21 13	2 12	6 21	0 16	5 28	1 12	15 57	1 36	23 5	0 12	22 35	0 55	22 3	16 44	23 36	23 38	0 3		n.a.
S 7	5 29	0n 0	5 0	15 52	2 47	21 32	2 15	6 38	0 15	5 22	1 12	15 59	1 36	23 5	0 12	22 35	0 55	22 3	16 44	23 36	23 38	0 6		n.a.
M 8	5 52	4 44	5 0	16 10	2 47	21 51	2 17	6 55	0 15	5 17	1 12	16 1	1 35	23 6	0 12	22 35	0 55	22 2	16 44	23 35	23 38	0 9		n.a.
T 9	6 14	9 20	4 46	16 25	2 46	22 9	2 20	7 12	0 14	5 12	1 12	16 3	1 35	23 6	0 12	22 35	0 55	22 2	16 44	23 35	23 38	0 11		n.a.
W10	6 37	13 36	4 20	16 37	2 43	22 27	2 22	7 29	0 14	5 6	1 12	16 5	1 35	23 6	0 12	22 35	0 55	22 2	16 45	23 34	23 38	0 14		n.a.
T 11	6 59	17 21	3 42	16 47	2 40	22 44	2 24	7 46	0 13	5 1	1 12	16 8	1 35	23 6	0 12	22 35	0 55	22 1	16 45	23 34	23 38	0 17		n.a.
F 12	7 21	20 24	2 53	16 54	2 36	23 0	2 27	8 2	0 12	4 56	1 12	16 10	1 35	23 7	0 12	22 34	0 55	22 1	16 45	23 33	23 37	0 20		n.a.
S 13	7 44	22 32	1 56	16 58	2 30	23 16	2 29	8 19	0 12	4 50	1 13	16 12	1 35	23 7	0 12	22 34	0 55	22 1	16 45	23 33	23 37	0 22		n.a.
S 14	8 6	23 34	0 51	17 0	2 24	23 31	2 31	8 36	0 11	4 45	1 13	16 14	1 35	23 7	0 12	22 34	0 55	22 1	16 46	23 33	23 37	0 25		n.a.
M15	8 27	23 23	0s17	16 59	2 16	23 46	2 33	8 52	0 10	4 40	1 13	16 16	1 34	23 7	0 12	22 34	0 55	22 0	16 46	23 33	23 37	0 28		n.a.
T 16	8 49	21 54	1 26	16 55	2 7	24 0	2 35	9 9	0 10	4 35	1 13	16 18	1 34	23 8	0 12	22 34	0 55	22 0	16 46	23 33	23 37	0 30		n.a.
W17	9 11	19 10	2 32	16 48	1 57	24 14	2 37	9 25	0 9	4 29	1 13	16 20	1 34	23 8	0 12	22 34	0 55	22 0	16 46	23 33	23 37	0 33		n.a.
T 18	9 32	15 17	3 31	16 39	1 46	24 27	2 38	9 41	0 9	4 24	1 13	16 22	1 34	23 8	0 12	22 34	0 55	21 59	16 46	23 33	23 37	0 36		n.a.
F 19	9 54	10 27	4 19	16 28	1 35	24 39	2 40	9 57	0 8	4 19	1 13	16 25	1 34	23 8	0 12	22 34	0 55	21 59	16 47	23 33	23 37	0 39		n.a.
S 20	10 15	4 55	4 51	16 14	1 22	24 51	2 42	10 13	0 7	4 14	1 13	16 27	1 34	23 9	0 12	22 34	0 55	21 59	16 47	23 33	23 36	0 41		n.a.
S 21	10 36	0s59	5 5	15 57	1 8	25 2	2 43	10 29	0 7	4 9	1 13	16 29	1 34	23 9	0 12	22 34	0 55	21 59	16 47	23 32	23 36	0 44		n.a.
M22	10 57	6 54	4 58	15 39	0 53	25 12	2 45	10 45	0 6	4 4	1 14	16 31	1 33	23 9	0 12	22 34	0 55	21 59	16 47	23 32	23 36	0 47		n.a.
T 23	11 17	12 25	4 30	15 18	0 38	25 22	2 46	11 1	0 6	3 59	1 14	16 33	1 33	23 10	0 12	22 34	0 56	21 58	16 48	23 32	23 36	0 49		n.a.
W24	11 38	17 7	3 44	14 56	0 22	25 31	2 47	11 17	0 5	3 54	1 14	16 35	1 33	23 10	0 12	22 34	0 56	21 58	16 48	23 31	23 36	0 52		n.a.
T 25	11 58	20 42	2 44	14 32	0 6	25 40	2 48	11 32	0 4	3 49	1 14	16 37	1 33	23 10	0 12	22 34	0 56	21 58	16 48	23 31	23 36	0 55		n.a.
F 26	12 18	22 53	1 36	14 7	0s11	25 48	2 49	11 47	0 4	3 44	1 14	16 39	1 33	23 10	0 12	22 34	0 56	21 58	16 48	23 31	23 36	0 58		n.a.
S 27	12 38	23 35	0 23	13 41	0 28	25 55	2 50	12 3	0 3	3 39	1 14	16 42	1 33	23 11	0 12	22 34	0 56	21 58	16 49	23 31	23 35	1 0		n.a.
S 28	12 58	22 54	0n49	13 14	0 46	26 2	2 51	12 18	0 2	3 34	1 14	16 44	1 33	23 11	0 12	22 34	0 56	21 58	16 49	23 31	23 35	1 3		n.a.
M29	13 18	20 59	1 56	12 47	1 3	26 8	2 51	12 33	0 2	3 29	1 14	16 46	1 33	23 11	0 12	22 34	0 56	21 57	16 49	23 31	23 35	1 6		n.a.
T 30	13n37	18s 6	2n55	12n20	1s20	26n13	2n52	12n48	0s 1	3s24	1s15	16n48	1s32	23n12	0n12	22s33	0n56	21s57	16s50	23s31	23s35	1n 8		n.a.

Julian Day Number = 1667091.5, Delta T = 03h22m35s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'14, Lahiri = - 6°00'14 Julian Calendar 1 Apr. 149 BCE == Greg. Calendar 29 March 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

MAY 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 23 10	6♉47'25	9♒26	5°R11	21♊29	4♉11	24♓35	21♉25	16♊23	22°R13	13♓36	22°R45	24♐ 9	21♓12	n.a.	W 1
T 2	14 27 6	7°44'47	21°29	4♉38	22°31	4°52	24°47	21°32	16°26	22♐12	13°36	22♐44	24° 6	21°18	n.a.	T 2
F 3	14 31 3	8°42'08	3♓23	4° 6	23°33	5°34	24°59	21°40	16°29	22°11	13°37	22°41	24° 3	21°25	n.a.	F 3
S 4	14 34 59	9°39'29	15°15	3°35	24°34	6°16	25°12	21°48	16°32	22°10	13°38	22°36	24° 0	21°32	n.a.	S 4
S 5	14 38 56	10°36'49	27° 7	3° 7	25°35	6°57	25°24	21°56	16°35	22° 9	13°39	22°30	23°56	21°39	n.a.	S 5
M 6	14 42 52	11°34'08	9♈ 4	2°41	26°35	7°38	25°36	22° 4	16°38	22° 8	13°40	22°23	23°53	21°45	n.a.	M 6
T 7	14 46 49	12°31'26	21° 6	2°19	27°35	8°20	25°48	22°11	16°41	22° 7	13°41	22°15	23°50	21°52	n.a.	T 7
W 8	14 50 45	13°28'44	3♉17	1°59	28°35	9° 1	26° 0	22°19	16°44	22° 5	13°42	22° 9	23°47	21°59	n.a.	W 8
T 9	14 54 42	14°26'01	15°38	1°44	29°35	9°42	26°12	22°27	16°47	22° 4	13°43	22° 3	23°44	22° 6	n.a.	T 9
F 10	14 58 39	15°23'17	28° 9	1°32	0♋34	10°24	26°23	22°35	16°51	22° 3	13°43	21°59	23°40	22°12	n.a.	F 10
S 11	15 2 35	16°20'33	10♊51	1°25	1°33	11° 5	26°35	22°43	16°54	22° 2	13°44	21°57	23°37	22°19	n.a.	S 11
S 12	15 6 32	17°17'47	23°46	1°D22	2°31	11°46	26°46	22°51	16°57	22° 1	13°45	21°D56	23°34	22°26	n.a.	S 12
M13	15 10 28	18°15'01	6♋53	1°24	3°29	12°27	26°58	22°58	17° 0	21°59	13°46	21°57	23°31	22°32	n.a.	M13
T 14	15 14 25	19°12'14	20°14	1°29	4°26	13° 8	27° 9	23° 6	17° 4	21°58	13°46	21°58	23°28	22°39	n.a.	T 14
W15	15 18 21	20° 9'26	3♌50	1°40	5°23	13°49	27°21	23°14	17° 7	21°57	13°47	22° 0	23°25	22°46	n.a.	W15
T 16	15 22 18	21° 6'38	17°41	1°55	6°20	14°30	27°32	23°22	17°10	21°55	13°48	22°R 1	23°21	22°53	n.a.	T 16
F 17	15 26 14	22° 3'48	1♍48	2°15	7°16	15°11	27°43	23°30	17°14	21°54	13°49	22° 0	23°18	22°59	n.a.	F 17
S 18	15 30 11	23° 0'57	16° 8	2°39	8°12	15°52	27°54	23°38	17°17	21°53	13°49	21°59	23°15	23° 6	n.a.	S 18
S 19	15 34 8	23°58'06	0♎40	3° 7	9° 7	16°33	28° 5	23°46	17°20	21°51	13°50	21°56	23°12	23°13	n.a.	S 19
M20	15 38 4	24°55'14	15°17	3°40	10° 1	17°14	28°16	23°54	17°24	21°50	13°50	21°53	23° 9	23°20	n.a.	M20
T 21	15 42 1	25°52'22	29°55	4°18	10°55	17°54	28°26	24° 2	17°27	21°49	13°51	21°49	23° 6	23°26	n.a.	T 21
W22	15 45 57	26°49'29	14♏27	4°59	11°49	18°35	28°37	24° 9	17°31	21°47	13°52	21°46	23° 2	23°33	n.a.	W22
T 23	15 49 54	27°46'35	28°46	5°45	12°41	19°16	28°48	24°17	17°34	21°46	13°52	21°43	22°59	23°40	n.a.	T 23
F 24	15 53 50	28°43'42	12♐47	6°35	13°34	19°56	28°58	24°25	17°38	21°44	13°53	21°42	22°56	23°46	n.a.	F 24
S 25	15 57 47	29°40'48	26°27	7°30	14°25	20°37	29° 8	24°33	17°41	21°43	13°53	21°D42	22°53	23°53	n.a.	S 25
S 26	16 1 44	0♊37'54	9♑44	8°28	15°16	21°17	29°19	24°41	17°45	21°41	13°54	21°43	22°50	24° 0	n.a.	S 26
M27	16 5 40	1°35'00	22°38	9°30	16° 6	21°58	29°29	24°49	17°48	21°40	13°54	21°44	22°46	24° 7	n.a.	M27
T 28	16 9 37	2°32'06	5♒13	10°36	16°56	22°38	29°39	24°57	17°52	21°38	13°55	21°45	22°43	24°13	n.a.	T 28
W29	16 13 33	3°29'12	17°31	11°46	17°45	23°19	29°49	25° 4	17°55	21°37	13°55	21°47	22°40	24°20	n.a.	W29
T 30	16 17 30	4°26'18	29°36	13° 0	18°33	23°59	29°58	25°12	17°59	21°35	13°55	21°R47	22°37	24°27	n.a.	T 30
F 31	16 21 26	5♊23'25	11♓33	14♉18	19♋20	24♉39	0♈ 8	25♉20	18♊ 2	21♐34	13♓56	21♐47	22♐34	24♓33	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13n56	14s29	3n45	11n53	1s36	26n18	2n52	13n 3	0s 1	3s19	1s15	16n50	1s32	23n12	0n12	22s33	0n56	21s57	16s50	23s31	23s35	1n11		n.a.
T 2	14 15	10 20	4 24	11 27	1 53	26 22	2 52	13 18	0n 0	3 14	1 15	16 52	1 32	23 12	0 12	22 33	0 56	21 57	16 50	23 31	23 35	1 14		n.a.
F 3	14 34	5 51	4 52	11 1	2 8	26 25	2 52	13 32	0 1	3 9	1 15	16 54	1 32	23 13	0 12	22 33	0 56	21 57	16 50	23 30	23 35	1 17		n.a.
S 4	14 52	1 11	5 6	10 37	2 23	26 28	2 52	13 47	0 1	3 5	1 15	16 57	1 32	23 13	0 12	22 33	0 56	21 57	16 51	23 30	23 34	1 19		n.a.
S 5	15 11	3n32	5 8	10 15	2 36	26 30	2 52	14 1	0 2	3 0	1 15	16 59	1 32	23 13	0 12	22 33	0 56	21 57	16 51	23 30	23 34	1 22		n.a.
M 6	15 29	8 9	4 56	9 54	2 49	26 32	2 52	14 15	0 2	2 55	1 15	17 1	1 32	23 13	0 12	22 33	0 56	21 57	16 51	23 29	23 34	1 25		n.a.
T 7	15 46	12 30	4 31	9 35	3 1	26 33	2 51	14 29	0 3	2 51	1 16	17 3	1 32	23 14	0 12	22 33	0 56	21 57	16 52	23 29	23 34	1 27		n.a.
W 8	16 4	16 24	3 53	9 19	3 11	26 33	2 51	14 43	0 4	2 46	1 16	17 5	1 32	23 14	0 12	22 33	0 56	21 57	16 52	23 29	23 34	1 30		n.a.
T 9	16 21	19 39	3 4	9 4	3 21	26 33	2 50	14 57	0 4	2 41	1 16	17 7	1 32	23 14	0 12	22 33	0 56	21 56	16 52	23 28	23 34	1 33		n.a.
F 10	16 38	22 1	2 6	8 53	3 29	26 32	2 49	15 11	0 5	2 37	1 16	17 9	1 31	23 15	0 12	22 33	0 56	21 56	16 53	23 28	23 34	1 35		n.a.
S 11	16 55	23 19	1 0	8 44	3 36	26 30	2 48	15 25	0 5	2 32	1 16	17 11	1 31	23 15	0 12	22 33	0 56	21 56	16 53	23 28	23 33	1 38		n.a.
S 12	17 11	23 24	0s10	8 37	3 42	26 28	2 47	15 38	0 6	2 28	1 16	17 13	1 31	23 15	0 12	22 33	0 56	21 56	16 53	23 28	23 33	1 41		n.a.
M13	17 28	22 11	1 21	8 33	3 46	26 25	2 45	15 51	0 7	2 23	1 17	17 15	1 31	23 16	0 12	22 32	0 56	21 56	16 54	23 28	23 33	1 43		n.a.
T 14	17 43	19 43	2 28	8 32	3 50	26 22	2 44	16 5	0 7	2 19	1 17	17 18	1 31	23 16	0 12	22 32	0 56	21 56	16 54	23 28	23 33	1 46		n.a.
W15	17 59	16 8	3 29	8 34	3 52	26 18	2 42	16 18	0 8	2 14	1 17	17 20	1 31	23 16	0 12	22 32	0 56	21 56	16 54	23 28	23 33	1 49		n.a.
T 16	18 14	11 36	4 19	8 38	3 53	26 14	2 40	16 30	0 9	2 10	1 17	17 22	1 31	23 17	0 12	22 32	0 56	21 56	16 55	23 28	23 33	1 52		n.a.
F 17	18 30	6 23	4 54	8 44	3 54	26 9	2 38	16 43	0 9	2 6	1 17	17 24	1 31	23 17	0 12	22 32	0 56	21 57	16 55	23 28	23 32	1 54		n.a.
S 18	18 44	0 45	5 11	8 53	3 53	26 3	2 36	16 56	0 10	2 2	1 17	17 26	1 31	23 17	0 12	22 32	0 56	21 57	16 55	23 28	23 32	1 57		n.a.
S 19	18 59	4s59	5 9	9 5	3 51	25 57	2 34	17 8	0 10	1 57	1 18	17 28	1 31	23 18	0 12	22 32	0 56	21 57	16 56	23 28	23 32	2 0		n.a.
M20	19 13	10 30	4 47	9 19	3 48	25 50	2 31	17 21	0 11	1 53	1 18	17 30	1 31	23 18	0 12	22 32	0 56	21 57	16 56	23 28	23 32	2 2		n.a.
T 21	19 27	15 25	4 7	9 35	3 44	25 43	2 28	17 33	0 12	1 49	1 18	17 32	1 31	23 18	0 12	22 32	0 56	21 57	16 56	23 27	23 32	2 5		n.a.
W22	19 40	19 23	3 10	9 53	3 40	25 36	2 25	17 45	0 12	1 45	1 18	17 34	1 31	23 19	0 12	22 32	0 56	21 57	16 57	23 27	23 32	2 8		n.a.
T 23	19 53	22 6	2 3	10 14	3 34	25 27	2 22	17 57	0 13	1 41	1 18	17 36	1 30	23 19	0 12	22 32	0 56	21 57	16 57	23 27	23 31	2 10		n.a.
F 24	20 6	23 24	0 49	10 36	3 28	25 19	2 19	18 8	0 13	1 37	1 18	17 38	1 30	23 19	0 12	22 31	0 56	21 57	16 57	23 27	23 31	2 13		n.a.
S 25	20 19	23 14	0n26	11 0	3 21	25 10	2 15	18 20	0 14	1 33	1 19	17 40	1 30	23 20	0 12	22 31	0 56	21 57	16 58	23 27	23 31	2 16		n.a.
S 26	20 31	21 44	1 38	11 26	3 14	25 0	2 11	18 31	0 14	1 29	1 19	17 42	1 30	23 20	0 12	22 31	0 56	21 57	16 58	23 27	23 31	2 18		n.a.
M27	20 43	19 7	2 42	11 53	3 6	24 50	2 8	18 43	0 15	1 25	1 19	17 44	1 30	23 20	0 12	22 31	0 56	21 57	16 58	23 27	23 31	2 21		n.a.
T 28	20 54	15 40	3 37	12 23	2 57	24 40	2 3	18 54	0 16	1 21	1 19	17 46	1 30	23 21	0 12	22 31	0 56	21 58	16 59	23 27	23 31	2 24		n.a.
W29	21 5	11 37	4 21	12 53	2 47	24 29	1 59	19 5	0 16	1 17	1 19	17 48	1 30	23 21	0 12	22 31	0 56	21 58	16 59	23 27	23 30	2 26		n.a.
T 30	21 16	7 11	4 52	13 25	2 38	24 18	1 54	19 15	0 17	1 14	1 20	17 50	1 30	23 21	0 12	22 31	0 56	21 58	16 59	23 27	23 30	2 29		n.a.
F 31	21n27	2s32	5n11	13n58	2s27	24n 6	1n50	19n26	0n17	1s10	1s20	17n52	1s30	23n22	0n12	22s31	0n56	21s58	17s 0	23s27	23s30	2n32		n.a.

Julian Day Number = 1667121.5, Delta T = 03h22m34s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'10, Lahiri = - 6°00'10 Julian Calendar 1 May 149 BCE == Greg. Calendar 28 Apr. 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

JUNE 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 25 23	6♊20'31	23♓26	15♉39	20♋ 7	25♉20	0♈18	25♉28	18♊ 6	21°R32	13♓56	21°R47	22♐31	24♓40	n.a.	S 1
S 2	16 29 19	7°17'38	5♈20	17° 4	20°53	26° 0	0°27	25°36	18° 9	21♐31	13°56	21♐45	22°27	24°47	n.a.	S 2
M 3	16 33 16	8°14'45	17°19	18°32	21°37	26°40	0°36	25°43	18°13	21°29	13°57	21°43	22°24	24°54	n.a.	M 3
T 4	16 37 13	9°11'53	29°27	20° 4	22°21	27°20	0°45	25°51	18°17	21°28	13°57	21°42	22°21	25° 0	n.a.	T 4
W 5	16 41 9	10° 9'01	11♉45	21°40	23° 4	28° 0	0°55	25°59	18°20	21°26	13°57	21°40	22°18	25° 7	n.a.	W 5
T 6	16 45 6	11° 6'09	24°18	23°19	23°46	28°40	1° 3	26° 7	18°24	21°24	13°58	21°39	22°15	25°14	n.a.	T 6
F 7	16 49 2	12° 3'17	7♊ 5	25° 2	24°28	29°20	1°12	26°14	18°27	21°23	13°58	21°38	22°12	25°21	n.a.	F 7
S 8	16 52 59	13° 0'26	20° 7	26°47	25° 8	0♊ 0	1°21	26°22	18°31	21°21	13°58	21°D38	22° 8	25°27	n.a.	S 8
S 9	16 56 55	13°57'34	3♋24	28°36	25°47	0°40	1°30	26°30	18°35	21°20	13°58	21°38	22° 5	25°34	n.a.	S 9
M10	17 0 52	14°54'43	16°55	0♊28	26°24	1°20	1°38	26°37	18°38	21°18	13°58	21°38	22° 2	25°41	n.a.	M10
T 11	17 4 48	15°51'52	0♌39	2°22	27° 1	2° 0	1°46	26°45	18°42	21°16	13°59	21°39	21°59	25°47	n.a.	T 11
W12	17 8 45	16°49'02	14°33	4°19	27°36	2°40	1°54	26°53	18°45	21°15	13°59	21°39	21°56	25°54	n.a.	W12
T 13	17 12 42	17°46'11	28°36	6°18	28°11	3°20	2° 2	27° 0	18°49	21°13	13°59	21°40	21°52	26° 1	n.a.	T 13
F 14	17 16 38	18°43'20	12♍46	8°20	28°44	3°59	2°10	27° 8	18°53	21°12	13°59	21°R40	21°49	26° 8	n.a.	F 14
S 15	17 20 35	19°40'29	27° 1	10°23	29°15	4°39	2°18	27°15	18°56	21°10	13°59	21°40	21°46	26°14	n.a.	S 15
S 16	17 24 31	20°37'39	11♎17	12°28	29°45	5°19	2°26	27°23	19° 0	21° 8	13°59	21°40	21°43	26°21	n.a.	S 16
M17	17 28 28	21°34'49	25°33	14°34	0♌14	5°58	2°33	27°30	19° 4	21° 7	13°R59	21°D40	21°40	26°28	n.a.	M17
T 18	17 32 24	22°31'59	9♏44	16°41	0°41	6°38	2°40	27°38	19° 7	21° 5	13°59	21°40	21°37	26°35	n.a.	T 18
W19	17 36 21	23°29'09	23°48	18°49	1° 6	7°17	2°47	27°45	19°11	21° 3	13°59	21°40	21°33	26°41	n.a.	W19
T 20	17 40 18	24°26'20	7♐40	20°56	1°30	7°57	2°54	27°52	19°15	21° 2	13°59	21°40	21°30	26°48	n.a.	T 20
F 21	17 44 14	25°23'32	21°20	23° 4	1°52	8°36	3° 1	28° 0	19°18	21° 0	13°59	21°R40	21°27	26°55	n.a.	F 21
S 22	17 48 11	26°20'44	4♑43	25°12	2°12	9°16	3° 8	28° 7	19°22	20°59	13°59	21°40	21°24	27° 1	n.a.	S 22
S 23	17 52 7	27°17'57	17°49	27°19	2°31	9°55	3°15	28°14	19°25	20°57	13°59	21°40	21°21	27° 8	n.a.	S 23
M24	17 56 4	28°15'11	0♒37	29°26	2°47	10°35	3°21	28°22	19°29	20°55	13°58	21°39	21°18	27°15	n.a.	M24
T 25	18 0 0	29°12'26	13° 9	1♋31	3° 2	11°14	3°27	28°29	19°33	20°54	13°58	21°38	21°14	27°22	n.a.	T 25
W26	18 3 57	0♋ 9'41	25°26	3°36	3°15	11°53	3°33	28°36	19°36	20°52	13°58	21°37	21°11	27°28	n.a.	W26
T 27	18 7 53	1° 6'58	7♓32	5°39	3°25	12°32	3°39	28°43	19°40	20°51	13°58	21°36	21° 8	27°35	n.a.	T 27
F 28	18 11 50	2° 4'15	19°29	7°41	3°34	13°12	3°45	28°50	19°43	20°49	13°58	21°35	21° 5	27°42	n.a.	F 28
S 29	18 15 47	3° 1'34	1♈23	9°42	3°40	13°51	3°50	28°57	19°47	20°47	13°57	21°D35	21° 2	27°49	n.a.	S 29
S 30	18 19 43	3♋58'54	13♈17	11♋41	3♌45	14♊30	3♈56	29♉ 4	19♊50	20♐46	13♓57	21♐35	20♐58	27♓55	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n37	2n11	5n15	14n32	2s17	23n54	1n44	19n36	0n18	1s 6	1s20	17n53	1s30	23n22	0n12	22s31	0n56	21s58	17s 0	23s27	23s30	2n34		n.a.
S 2	21 47	6 49	5 7	15 7	2 6	23 42	1 39	19 47	0 19	1 3	1 20	17 55	1 30	23 22	0 12	22 31	0 56	21 59	17 1	23 27	23 30	2 37		n.a.
M 3	21 56	11 15	4 45	15 43	1 54	23 30	1 34	19 57	0 19	0 59	1 21	17 57	1 30	23 23	0 12	22 30	0 56	21 59	17 1	23 27	23 30	2 40		n.a.
T 4	22 5	15 17	4 10	16 19	1 43	23 17	1 28	20 7	0 20	0 56	1 21	17 59	1 30	23 23	0 12	22 30	0 56	21 59	17 1	23 27	23 29	2 42		n.a.
W 5	22 14	18 45	3 23	16 56	1 31	23 3	1 22	20 16	0 20	0 52	1 21	18 1	1 30	23 23	0 12	22 30	0 56	21 59	17 2	23 27	23 29	2 45		n.a.
T 6	22 22	21 25	2 26	17 33	1 19	22 50	1 16	20 26	0 21	0 49	1 21	18 3	1 30	23 24	0 12	22 30	0 56	21 59	17 2	23 27	23 29	2 47		n.a.
F 7	22 30	23 3	1 20	18 10	1 7	22 36	1 9	20 35	0 22	0 45	1 21	18 5	1 30	23 24	0 12	22 30	0 56	22 0	17 2	23 27	23 29	2 50		n.a.
S 8	22 37	23 29	0 8	18 47	0 54	22 22	1 2	20 45	0 22	0 42	1 22	18 6	1 30	23 24	0 12	22 30	0 56	22 0	17 3	23 27	23 29	2 53		n.a.
S 9	22 44	22 35	1s 5	19 23	0 42	22 8	0 55	20 54	0 23	0 39	1 22	18 8	1 30	23 25	0 12	22 30	0 56	22 0	17 3	23 27	23 28	2 55		n.a.
M10	22 51	20 23	2 16	19 59	0 30	21 54	0 48	21 3	0 23	0 36	1 22	18 10	1 30	23 25	0 12	22 30	0 56	22 0	17 3	23 27	23 28	2 58		n.a.
T 11	22 57	17 0	3 20	20 35	0 18	21 39	0 40	21 11	0 24	0 33	1 22	18 12	1 30	23 25	0 12	22 30	0 56	22 1	17 4	23 27	23 28	3 1		n.a.
W12	23 3	12 37	4 13	21 9	0 6	21 24	0 32	21 20	0 24	0 30	1 23	18 14	1 30	23 26	0 12	22 30	0 56	22 1	17 4	23 27	23 28	3 3		n.a.
T 13	23 9	7 32	4 52	21 41	0n 5	21 9	0 24	21 28	0 25	0 27	1 23	18 15	1 30	23 26	0 12	22 30	0 56	22 1	17 5	23 27	23 28	3 6		n.a.
F 14	23 14	2 2	5 13	22 13	0 16	20 54	0 16	21 36	0 26	0 24	1 23	18 17	1 30	23 26	0 12	22 29	0 56	22 2	17 5	23 27	23 27	3 9		n.a.
S 15	23 18	3s37	5 15	22 42	0 27	20 39	0 7	21 44	0 26	0 21	1 23	18 19	1 30	23 27	0 12	22 29	0 56	22 2	17 5	23 27	23 27	3 11		n.a.
S 16	23 23	9 5	4 59	23 10	0 37	20 24	0s 2	21 52	0 27	0 18	1 23	18 21	1 30	23 27	0 12	22 29	0 56	22 2	17 6	23 27	23 27	3 14		n.a.
M17	23 26	14 4	4 23	23 35	0 47	20 9	0 11	22 0	0 27	0 15	1 24	18 22	1 30	23 27	0 12	22 29	0 56	22 3	17 6	23 27	23 27	3 16		n.a.
T 18	23 30	18 14	3 32	23 58	0 56	19 54	0 21	22 7	0 28	0 12	1 24	18 24	1 30	23 27	0 12	22 29	0 56	22 3	17 6	23 27	23 27	3 19		n.a.
W19	23 33	21 20	2 28	24 18	1 4	19 39	0 31	22 15	0 29	0 10	1 24	18 26	1 30	23 28	0 12	22 29	0 56	22 3	17 7	23 27	23 26	3 22		n.a.
T 20	23 36	23 6	1 17	24 36	1 12	19 23	0 41	22 22	0 29	0 7	1 24	18 27	1 30	23 28	0 12	22 29	0 56	22 4	17 7	23 27	23 26	3 24		n.a.
F 21	23 38	23 27	0 2	24 51	1 19	19 8	0 51	22 29	0 30	0 5	1 25	18 29	1 30	23 28	0 12	22 29	0 56	22 4	17 8	23 27	23 26	3 27		n.a.
S 22	23 40	22 26	1n12	25 3	1 25	18 53	1 2	22 35	0 30	0 2	1 25	18 31	1 30	23 29	0 12	22 29	0 56	22 4	17 8	23 27	23 26	3 30		n.a.
S 23	23 41	20 12	2 20	25 12	1 31	18 38	1 13	22 42	0 31	0n 0	1 25	18 32	1 30	23 29	0 12	22 29	0 56	22 5	17 8	23 27	23 26	3 32		n.a.
M24	23 42	17 0	3 19	25 18	1 36	18 23	1 24	22 48	0 31	0 2	1 25	18 34	1 30	23 29	0 12	22 28	0 56	22 5	17 9	23 27	23 25	3 35		n.a.
T 25	23 43	13 6	4 8	25 22	1 40	18 9	1 36	22 55	0 32	0 5	1 26	18 36	1 30	23 30	0 12	22 28	0 56	22 5	17 9	23 27	23 25	3 37		n.a.
W26	23 43	8 44	4 44	25 23	1 43	17 54	1 48	23 1	0 33	0 7	1 26	18 37	1 30	23 30	0 12	22 28	0 56	22 6	17 9	23 27	23 25	3 40		n.a.
T 27	23 42	4 6	5 7	25 21	1 46	17 40	2 0	23 6	0 33	0 9	1 26	18 39	1 30	23 30	0 12	22 28	0 56	22 6	17 10	23 27	23 25	3 43		n.a.
F 28	23 42	0n38	5 16	25 17	1 48	17 26	2 13	23 12	0 34	0 11	1 27	18 40	1 30	23 30	0 12	22 28	0 55	22 7	17 10	23 27	23 25	3 45		n.a.
S 29	23 41	5 19	5 12	25 10	1 49	17 12	2 25	23 17	0 34	0 13	1 27	18 42	1 30	23 31	0 12	22 28	0 55	22 7	17 10	23 27	23 24	3 48		n.a.
S 30	23n39	9n48	4n54	25n 1	1n50	16n58	2s38	23n23	0n35	0n15	1s27	18n43	1s30	23n31	0n12	22s28	0n55	22s 8	17s11	23s27	23s24	3n50		n.a.

Julian Day Number = 1667152.5, Delta T = 03h22m33s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'06, Lahiri = - 6°00'06 Julian Calendar 1 June 149 BCE == Greg. Calendar 29 May 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

JULY 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 23 40	4♋56'15	25♈17	13♋39	3°R46	15♊ 9	4♈ 1	29♉11	19♊54	20°R44	13°R57	21♐36	20♐55	28♓ 2	n.a.	M 1
T 2	18 27 36	5°53'38	7♉26	15°35	3♌46	15°48	4° 6	29°18	19°58	20♐43	13♓57	21°37	20°52	28° 9	n.a.	T 2
W 3	18 31 33	6°51'01	19°49	17°30	3°44	16°27	4°11	29°25	20° 1	20°41	13°56	21°38	20°49	28°15	n.a.	W 3
T 4	18 35 29	7°48'26	2♊30	19°23	3°39	17° 6	4°16	29°32	20° 5	20°40	13°56	21°39	20°46	28°22	n.a.	T 4
F 5	18 39 26	8°45'53	15°29	21°15	3°31	17°45	4°20	29°38	20° 8	20°38	13°55	21°R40	20°43	28°29	n.a.	F 5
S 6	18 43 22	9°43'20	28°49	23° 5	3°22	18°24	4°25	29°45	20°12	20°37	13°55	21°40	20°39	28°36	n.a.	S 6
S 7	18 47 19	10°40'49	12♋29	24°53	3°10	19° 3	4°29	29°52	20°15	20°35	13°55	21°39	20°36	28°42	n.a.	S 7
M 8	18 51 16	11°38'19	26°26	26°40	2°55	19°42	4°33	29°58	20°19	20°34	13°54	21°37	20°33	28°49	n.a.	M 8
T 9	18 55 12	12°35'50	10♌38	28°25	2°38	20°21	4°37	0♊ 5	20°22	20°32	13°54	21°35	20°30	28°56	n.a.	T 9
W10	18 59 9	13°33'22	24°58	0♌ 9	2°19	21° 0	4°41	0°11	20°25	20°31	13°53	21°32	20°27	29° 2	n.a.	W10
T 11	19 3 5	14°30'55	9♍22	1°51	1°58	21°38	4°44	0°18	20°29	20°29	13°53	21°29	20°24	29° 9	n.a.	T 11
F 12	19 7 2	15°28'29	23°46	3°32	1°35	22°17	4°47	0°24	20°32	20°28	13°52	21°27	20°20	29°16	n.a.	F 12
S 13	19 10 58	16°26'03	8♎ 5	5°11	1° 9	22°56	4°51	0°30	20°36	20°26	13°52	21°26	20°17	29°23	n.a.	S 13
S 14	19 14 55	17°23'39	22°16	6°49	0°42	23°34	4°53	0°37	20°39	20°25	13°51	21°D25	20°14	29°29	n.a.	S 14
M15	19 18 51	18°21'16	6♏18	8°25	0°13	24°13	4°56	0°43	20°42	20°24	13°51	21°26	20°11	29°36	n.a.	M15
T 16	19 22 48	19°18'55	20° 8	9°59	29♋42	24°52	4°59	0°49	20°46	20°22	13°50	21°28	20° 8	29°43	n.a.	T 16
W17	19 26 45	20°16'34	3♐47	11°32	29° 9	25°30	5° 1	0°55	20°49	20°21	13°49	21°29	20° 4	29°50	n.a.	W17
T 18	19 30 41	21°14'15	17°13	13° 4	28°36	26° 9	5° 3	1° 1	20°52	20°19	13°49	21°R30	20° 1	29°56	n.a.	T 18
F 19	19 34 38	22°11'57	0♑28	14°34	28° 1	26°47	5° 5	1° 7	20°55	20°18	13°48	21°30	19°58	0♈ 3	n.a.	F 19
S 20	19 38 34	23° 9'40	13°30	16° 2	27°25	27°26	5° 7	1°13	20°59	20°17	13°48	21°28	19°55	0°10	n.a.	S 20
S 21	19 42 31	24° 7'25	26°19	17°29	26°48	28° 4	5° 9	1°19	21° 2	20°16	13°47	21°25	19°52	0°16	n.a.	S 21
M22	19 46 27	25° 5'11	8♒55	18°55	26°11	28°42	5°10	1°24	21° 5	20°14	13°46	21°20	19°49	0°23	n.a.	M22
T 23	19 50 24	26° 2'59	21°19	20°18	25°34	29°21	5°11	1°30	21° 8	20°13	13°45	21°14	19°45	0°30	n.a.	T 23
W24	19 54 20	27° 0'48	3♓31	21°41	24°57	29°59	5°12	1°36	21°11	20°12	13°45	21° 8	19°42	0°37	n.a.	W24
T 25	19 58 17	27°58'39	15°34	23° 1	24°20	0♋37	5°13	1°41	21°14	20°11	13°44	21° 2	19°39	0°43	n.a.	T 25
F 26	20 2 14	28°56'32	27°30	24°20	23°44	1°15	5°14	1°47	21°17	20° 9	13°43	20°57	19°36	0°50	n.a.	F 26
S 27	20 6 10	29°54'27	9♈22	25°37	23° 9	1°54	5°14	1°52	21°20	20° 8	13°42	20°53	19°33	0°57	n.a.	S 27
S 28	20 10 7	0♌52'24	21°15	26°52	22°34	2°32	5°14	1°58	21°23	20° 7	13°42	20°51	19°29	1° 3	n.a.	S 28
M29	20 14 3	1°50'23	3♉13	28° 6	22° 1	3°10	5°R14	2° 3	21°26	20° 6	13°41	20°D50	19°26	1°10	n.a.	M29
T 30	20 18 0	2°48'24	15°20	29°17	21°29	3°48	5°14	2° 8	21°29	20° 5	13°40	20°51	19°23	1°17	n.a.	T 30
W31	20 21 56	3♌46'26	27♉43	0♍27	20♋58	4♋26	5♈14	2♊13	21♊32	20♐ 4	13♓39	20♐52	19♐20	1♈24	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23n37	13n58	4n23	24n49	1n50	16n45	2s51	23n28	0n35	0n17	1s27	18n45	1s30	23n31	0n12	22s28	0n55	22s 8	17s11	23s27	23s24	3n53		n.a.
T 2	23 35	17 37	3 41	24 35	1 49	16 32	3 5	23 32	0 36	0 19	1 28	18 46	1 30	23 32	0 12	22 28	0 55	22 8	17 11	23 27	23 24	3 56		n.a.
W 3	23 32	20 34	2 47	24 20	1 48	16 20	3 18	23 37	0 36	0 20	1 28	18 48	1 30	23 32	0 12	22 28	0 55	22 9	17 12	23 27	23 23	3 58		n.a.
T 4	23 29	22 36	1 44	24 2	1 46	16 8	3 32	23 42	0 37	0 22	1 28	18 49	1 30	23 32	0 12	22 28	0 55	22 9	17 12	23 27	23 23	4 1		n.a.
F 5	23 25	23 29	0 34	23 43	1 43	15 56	3 46	23 46	0 38	0 24	1 28	18 51	1 30	23 32	0 12	22 27	0 55	22 10	17 13	23 27	23 23	4 3		n.a.
S 6	23 21	23 3	0s39	23 22	1 41	15 45	4 0	23 50	0 38	0 25	1 29	18 52	1 30	23 33	0 12	22 27	0 55	22 10	17 13	23 27	23 23	4 6		n.a.
S 7	23 17	21 15	1 52	22 59	1 37	15 34	4 13	23 54	0 39	0 27	1 29	18 53	1 30	23 33	0 12	22 27	0 55	22 11	17 13	23 27	23 23	4 9		n.a.
M 8	23 12	18 10	3 0	22 35	1 33	15 24	4 27	23 58	0 39	0 28	1 29	18 55	1 30	23 33	0 12	22 27	0 55	22 11	17 14	23 27	23 22	4 11		n.a.
T 9	23 6	13 58	3 58	22 10	1 29	15 14	4 41	24 1	0 40	0 29	1 29	18 56	1 30	23 34	0 12	22 27	0 55	22 12	17 14	23 26	23 22	4 14		n.a.
W10	23 1	8 56	4 41	21 43	1 25	15 5	4 55	24 4	0 40	0 31	1 30	18 57	1 30	23 34	0 12	22 27	0 55	22 12	17 14	23 26	23 22	4 16		n.a.
T 11	22 55	3 24	5 7	21 16	1 19	14 56	5 9	24 8	0 41	0 32	1 30	18 59	1 30	23 34	0 12	22 27	0 55	22 13	17 15	23 26	23 22	4 19		n.a.
F 12	22 48	2s17	5 14	20 47	1 14	14 48	5 22	24 11	0 41	0 33	1 30	19 0	1 30	23 34	0 12	22 27	0 55	22 13	17 15	23 26	23 21	4 21		n.a.
S 13	22 41	7 50	5 1	20 17	1 8	14 40	5 36	24 13	0 42	0 34	1 31	19 1	1 30	23 35	0 12	22 27	0 55	22 14	17 15	23 26	23 21	4 24		n.a.
S 14	22 34	12 56	4 30	19 47	1 2	14 33	5 49	24 16	0 43	0 35	1 31	19 3	1 30	23 35	0 12	22 27	0 55	22 14	17 15	23 26	23 21	4 27		n.a.
M15	22 26	17 16	3 43	19 16	0 56	14 27	6 1	24 18	0 43	0 35	1 31	19 4	1 30	23 35	0 12	22 27	0 55	22 15	17 16	23 26	23 21	4 29		n.a.
T 16	22 18	20 36	2 43	18 44	0 49	14 22	6 13	24 20	0 44	0 36	1 31	19 5	1 30	23 35	0 12	22 27	0 55	22 15	17 16	23 26	23 20	4 32		n.a.
W17	22 10	22 43	1 36	18 11	0 42	14 17	6 25	24 22	0 44	0 37	1 32	19 6	1 30	23 36	0 12	22 26	0 55	22 16	17 16	23 26	23 20	4 34		n.a.
T 18	22 1	23 29	0 23	17 38	0 34	14 13	6 36	24 24	0 45	0 38	1 32	19 8	1 30	23 36	0 12	22 26	0 55	22 16	17 17	23 26	23 20	4 37		n.a.
F 19	21 52	22 54	0n49	17 5	0 27	14 9	6 47	24 26	0 45	0 38	1 32	19 9	1 30	23 36	0 12	22 26	0 55	22 17	17 17	23 26	23 20	4 39		n.a.
S 20	21 42	21 4	1 57	16 31	0 19	14 6	6 57	24 27	0 46	0 39	1 33	19 10	1 30	23 36	0 12	22 26	0 55	22 17	17 17	23 26	23 19	4 42		n.a.
S 21	21 32	18 12	2 59	15 56	0 11	14 4	7 6	24 28	0 46	0 39	1 33	19 11	1 30	23 37	0 12	22 26	0 55	22 18	17 18	23 26	23 19	4 45		n.a.
M22	21 22	14 32	3 50	15 22	0 3	14 2	7 15	24 29	0 47	0 39	1 33	19 12	1 30	23 37	0 12	22 26	0 55	22 18	17 18	23 26	23 19	4 47		n.a.
T 23	21 11	10 18	4 29	14 47	0s 6	14 1	7 22	24 30	0 48	0 39	1 33	19 13	1 30	23 37	0 12	22 26	0 55	22 19	17 18	23 25	23 19	4 50		n.a.
W24	21 0	5 44	4 56	14 13	0 15	14 1	7 29	24 31	0 48	0 40	1 34	19 14	1 30	23 37	0 12	22 26	0 55	22 19	17 18	23 25	23 18	4 52		n.a.
T 25	20 48	1 1	5 9	13 38	0 23	14 1	7 36	24 31	0 49	0 40	1 34	19 15	1 31	23 37	0 12	22 26	0 55	22 20	17 19	23 24	23 18	4 55		n.a.
F 26	20 36	3n42	5 8	13 3	0 32	14 2	7 41	24 32	0 49	0 40	1 34	19 17	1 31	23 38	0 12	22 26	0 55	22 21	17 19	23 24	23 18	4 57		n.a.
S 27	20 24	8 15	4 54	12 29	0 41	14 3	7 45	24 32	0 50	0 40	1 35	19 18	1 31	23 38	0 12	22 26	0 55	22 21	17 19	23 24	23 18	5 0		n.a.
S 28	20 12	12 30	4 28	11 54	0 51	14 5	7 49	24 32	0 50	0 39	1 35	19 19	1 31	23 38	0 12	22 26	0 55	22 22	17 20	23 24	23 17	5 2		n.a.
M29	19 59	16 19	3 50	11 20	1 0	14 8	7 52	24 31	0 51	0 39	1 35	19 20	1 31	23 38	0 12	22 26	0 55	22 22	17 20	23 24	23 17	5 5		n.a.
T 30	19 45	19 30	3 1	10 46	1 9	14 11	7 54	24 31	0 51	0 39	1 35	19 21	1 31	23 39	0 12	22 26	0 55	22 23	17 20	23 24	23 17	5 7		n.a.
W31	19n32	21n51	2n 2	10n13	1s19	14n14	7s55	24n30	0n52	0n38	1s36	19n21	1s31	23n39	0n12	22s26	0n55	22s23	17s20	23s24	23s17	5n10		n.a.

Julian Day Number = 1667182.5, Delta T = 03h22m32s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°07'02, Lahiri = - 6°00'02 Julian Calendar 1 July 149 BCE == Greg. Calendar 28 June 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

AUGUST 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 25 53	4♌44'31	10♊25	1♍34	20°R30	5♋ 4	5°R13	2♊18	21♊35	20°R 3	13°R38	20♐54	19♐17	1♈30	n.a.	T 1
F 2	20 29 49	5°42'38	23°29	2°39	20♋ 3	5°42	5♈12	2°23	21°38	20♐ 2	13♓37	20°R54	19°14	1°37	n.a.	F 2
S 3	20 33 46	6°40'47	6♋59	3°42	19°38	6°20	5°11	2°28	21°41	20° 1	13°36	20°53	19°10	1°44	n.a.	S 3
S 4	20 37 43	7°38'58	20°55	4°43	19°15	6°58	5°10	2°33	21°44	20° 0	13°36	20°50	19° 7	1°51	n.a.	S 4
M 5	20 41 39	8°37'11	5♌14	5°41	18°55	7°36	5° 9	2°37	21°46	19°59	13°35	20°44	19° 4	1°57	n.a.	M 5
T 6	20 45 36	9°35'26	19°50	6°36	18°36	8°14	5° 7	2°42	21°49	19°58	13°34	20°37	19° 1	2° 4	n.a.	T 6
W 7	20 49 32	10°33'42	4♍38	7°28	18°20	8°52	5° 6	2°47	21°52	19°57	13°33	20°30	18°58	2°11	n.a.	W 7
T 8	20 53 29	11°32'00	19°29	8°17	18° 7	9°30	5° 4	2°51	21°54	19°56	13°32	20°22	18°55	2°17	n.a.	T 8
F 9	20 57 25	12°30'20	4♎14	9° 2	17°56	10° 8	5° 1	2°55	21°57	19°55	13°31	20°16	18°51	2°24	n.a.	F 9
S 10	21 1 22	13°28'42	18°47	9°45	17°47	10°45	4°59	3° 0	22° 0	19°55	13°30	20°11	18°48	2°31	n.a.	S 10
S 11	21 5 18	14°27'05	3♏ 4	10°23	17°40	11°23	4°56	3° 4	22° 2	19°54	13°29	20° 9	18°45	2°38	n.a.	S 11
M12	21 9 15	15°25'30	17° 2	10°57	17°36	12° 1	4°54	3° 8	22° 5	19°53	13°28	20°D 8	18°42	2°44	n.a.	M12
T 13	21 13 12	16°23'56	0♐42	11°27	17°D35	12°38	4°51	3°12	22° 7	19°52	13°27	20° 9	18°39	2°51	n.a.	T 13
W14	21 17 8	17°22'25	14° 4	11°52	17°35	13°16	4°48	3°16	22°10	19°52	13°26	20°R10	18°35	2°58	n.a.	W14
T 15	21 21 5	18°20'55	27°11	12°11	17°38	13°54	4°44	3°20	22°12	19°51	13°25	20°10	18°32	3° 4	n.a.	T 15
F 16	21 25 1	19°19'27	10♑ 5	12°26	17°43	14°31	4°41	3°23	22°14	19°50	13°24	20° 8	18°29	3°11	n.a.	F 16
S 17	21 28 58	20°18'00	22°47	12°35	17°51	15° 9	4°37	3°27	22°17	19°50	13°23	20° 3	18°26	3°18	n.a.	S 17
S 18	21 32 54	21°16'36	5♒18	12°R37	18° 0	15°46	4°33	3°31	22°19	19°49	13°22	19°56	18°23	3°25	n.a.	S 18
M19	21 36 51	22°15'13	17°40	12°34	18°12	16°24	4°29	3°34	22°21	19°49	13°21	19°47	18°20	3°31	n.a.	M19
T 20	21 40 47	23°13'53	29°53	12°23	18°26	17° 1	4°25	3°37	22°23	19°48	13°19	19°36	18°16	3°38	n.a.	T 20
W21	21 44 44	24°12'35	11♓58	12° 6	18°42	17°38	4°20	3°41	22°26	19°48	13°18	19°24	18°13	3°45	n.a.	W21
T 22	21 48 41	25°11'18	23°56	11°41	19° 0	18°16	4°16	3°44	22°28	19°47	13°17	19°12	18°10	3°51	n.a.	T 22
F 23	21 52 37	26°10'04	5♈49	11° 9	19°20	18°53	4°11	3°47	22°30	19°47	13°16	19° 1	18° 7	3°58	n.a.	F 23
S 24	21 56 34	27° 8'52	17°40	10°31	19°41	19°30	4° 6	3°50	22°32	19°46	13°15	18°52	18° 4	4° 5	n.a.	S 24
S 25	22 0 30	28° 7'43	29°31	9°45	20° 5	20° 8	4° 1	3°53	22°34	19°46	13°14	18°46	18° 1	4°12	n.a.	S 25
M26	22 4 27	29° 6'36	11♉27	8°53	20°30	20°45	3°55	3°55	22°36	19°46	13°13	18°42	17°57	4°18	n.a.	M26
T 27	22 8 23	0♍ 5'31	23°31	7°56	20°57	21°22	3°50	3°58	22°37	19°45	13°12	18°40	17°54	4°25	n.a.	T 27
W28	22 12 20	1° 4'29	5♊50	6°54	21°25	21°59	3°44	4° 1	22°39	19°45	13°11	18°D40	17°51	4°32	n.a.	W28
T 29	22 16 16	2° 3'29	18°27	5°48	21°55	22°36	3°39	4° 3	22°41	19°45	13° 9	18°R41	17°48	4°39	n.a.	T 29
F 30	22 20 13	3° 2'31	1♋29	4°41	22°27	23°13	3°33	4° 5	22°43	19°45	13° 8	18°40	17°45	4°45	n.a.	F 30
S 31	22 24 9	4♍ 1'36	14♋59	3♍33	23♋ 0	23♋50	3°27	4♊ 8	22♊45	19♐45	13♓ 7	18♐38	17♐41	4♈52	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n18	23n12	0n56	9n40	1s28	14n18	7s55	24n29	0n52	0n38	1s36	19n22	1s31	23n39	0n12	22s26	0n55	22s24	17s21	23s24	23s16	5n13			n.a.
F 2	19 4	23 19	0s14	9 7	1 38	14 22	7 55	24 28	0 53	0 37	1 36	19 23	1 31	23 39	0 12	22 26	0 55	22 25	17 21	23 24	23 16	5 15			n.a.
S 3	18 49	22 6	1 26	8 36	1 48	14 27	7 53	24 27	0 54	0 37	1 36	19 24	1 31	23 39	0 12	22 26	0 55	22 25	17 21	23 24	23 16	5 18			n.a.
S 4	18 34	19 31	2 35	8 5	1 57	14 32	7 51	24 26	0 54	0 36	1 37	19 25	1 31	23 40	0 12	22 25	0 54	22 26	17 21	23 23	23 16	5 20			n.a.
M 5	18 19	15 42	3 36	7 34	2 7	14 37	7 49	24 24	0 55	0 35	1 37	19 26	1 31	23 40	0 13	22 25	0 54	22 26	17 21	23 23	23 15	5 23			n.a.
T 6	18 3	10 52	4 24	7 5	2 16	14 43	7 46	24 22	0 55	0 34	1 37	19 27	1 31	23 40	0 13	22 25	0 54	22 27	17 22	23 23	23 15	5 25			n.a.
W 7	17 47	5 21	4 55	6 37	2 26	14 49	7 42	24 20	0 56	0 33	1 38	19 28	1 31	23 40	0 13	22 25	0 54	22 27	17 22	23 22	23 15	5 28			n.a.
T 8	17 31	0s29	5 6	6 10	2 35	14 55	7 38	24 18	0 56	0 32	1 38	19 28	1 31	23 40	0 13	22 25	0 54	22 28	17 22	23 22	23 15	5 30			n.a.
F 9	17 15	6 14	4 57	5 44	2 44	15 1	7 33	24 16	0 57	0 31	1 38	19 29	1 32	23 40	0 13	22 25	0 54	22 28	17 22	23 21	23 14	5 33			n.a.
S 10	16 58	11 35	4 29	5 20	2 53	15 7	7 27	24 13	0 57	0 30	1 38	19 30	1 32	23 41	0 13	22 25	0 54	22 29	17 22	23 21	23 14	5 35			n.a.
S 11	16 41	16 11	3 45	4 58	3 2	15 14	7 21	24 11	0 58	0 29	1 39	19 31	1 32	23 41	0 13	22 25	0 54	22 30	17 23	23 21	23 14	5 38			n.a.
M12	16 24	19 48	2 48	4 37	3 10	15 21	7 15	24 8	0 58	0 27	1 39	19 31	1 32	23 41	0 13	22 25	0 54	22 30	17 23	23 20	23 14	5 40			n.a.
T 13	16 6	22 12	1 42	4 18	3 18	15 27	7 9	24 5	0 59	0 26	1 39	19 32	1 32	23 41	0 13	22 25	0 54	22 31	17 23	23 21	23 13	5 43			n.a.
W14	15 48	23 17	0 33	4 2	3 26	15 34	7 2	24 2	0 59	0 25	1 39	19 33	1 32	23 41	0 13	22 25	0 54	22 31	17 23	23 21	23 13	5 45			n.a.
T 15	15 30	23 3	0n38	3 48	3 33	15 41	6 55	23 58	1 0	0 23	1 40	19 33	1 32	23 41	0 13	22 25	0 54	22 32	17 23	23 21	23 13	5 48			n.a.
F 16	15 12	21 35	1 44	3 36	3 39	15 48	6 47	23 55	1 1	0 21	1 40	19 34	1 32	23 42	0 13	22 25	0 54	22 32	17 24	23 20	23 12	5 50			n.a.
S 17	14 53	19 3	2 45	3 27	3 45	15 54	6 39	23 51	1 1	0 20	1 40	19 35	1 32	23 42	0 13	22 25	0 54	22 33	17 24	23 20	23 12	5 53			n.a.
S 18	14 34	15 40	3 36	3 22	3 50	16 1	6 32	23 47	1 2	0 18	1 40	19 35	1 32	23 42	0 13	22 25	0 54	22 34	17 24	23 20	23 12	5 55			n.a.
M19	14 15	11 38	4 17	3 19	3 54	16 8	6 23	23 43	1 2	0 16	1 40	19 36	1 32	23 42	0 13	22 25	0 54	22 34	17 24	23 19	23 12	5 58			n.a.
T 20	13 56	7 12	4 45	3 21	3 57	16 14	6 15	23 39	1 3	0 14	1 41	19 36	1 32	23 42	0 13	22 25	0 54	22 35	17 24	23 18	23 11	6 0			n.a.
W21	13 36	2 32	5 0	3 26	3 59	16 20	6 7	23 35	1 3	0 12	1 41	19 37	1 32	23 42	0 13	22 25	0 54	22 35	17 24	23 17	23 11	6 3			n.a.
T 22	13 16	2n10	5 1	3 35	3 59	16 26	5 58	23 30	1 4	0 10	1 41	19 37	1 33	23 43	0 13	22 25	0 54	22 36	17 24	23 16	23 11	6 5			n.a.
F 23	12 56	6 45	4 50	3 48	3 58	16 32	5 50	23 26	1 4	0 8	1 41	19 38	1 33	23 43	0 13	22 25	0 54	22 36	17 25	23 15	23 10	6 8			n.a.
S 24	12 36	11 5	4 25	4 5	3 55	16 38	5 41	23 21	1 5	0 6	1 41	19 38	1 33	23 43	0 13	22 25	0 54	22 37	17 25	23 14	23 10	6 10			n.a.
S 25	12 16	15 0	3 50	4 26	3 51	16 43	5 32	23 16	1 5	0 4	1 42	19 39	1 33	23 43	0 13	22 25	0 54	22 37	17 25	23 14	23 10	6 13			n.a.
M26	11 55	18 21	3 4	4 52	3 45	16 48	5 23	23 11	1 6	0 1	1 42	19 39	1 33	23 43	0 13	22 25	0 54	22 38	17 25	23 14	23 10	6 15			n.a.
T 27	11 34	20 57	2 9	5 21	3 36	16 53	5 15	23 5	1 6	0s 1	1 42	19 40	1 33	23 43	0 13	22 25	0 54	22 39	17 25	23 13	23 9	6 18			n.a.
W28	11 13	22 38	1 8	5 54	3 26	16 57	5 6	23 0	1 7	0 3	1 42	19 40	1 33	23 43	0 13	22 25	0 54	22 39	17 25	23 13	23 9	6 20			n.a.
T 29	10 52	23 13	0 1	6 29	3 14	17 1	4 57	22 54	1 7	0 6	1 42	19 40	1 33	23 43	0 13	22 25	0 54	22 40	17 25	23 13	23 9	6 23			n.a.
F 30	10 30	22 35	1s 7	7 7	2 59	17 5	4 48	22 48	1 8	0 8	1 43	19 41	1 33	23 44	0 13	22 25	0 54	22 40	17 25	23 13	23 8	6 25			n.a.
S 31	10n 9	20n38	2s15	7n47	2s44	17n 8	4s39	22n42	1n 9	0s11	1s43	19n41	1s33	23n44	0n13	22s25	0n53	22s41	17s25	23s13	23s 8	6n27			n.a.

Julian Day Number = 1667213.5, Delta T = 03h22m31s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'58, Lahiri = - 5°59'57 Julian Calendar 1 Aug. 149 BCE == Greg. Calendar 29 July 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

SEPTEMBER 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 28 6	5♍ 0'44	28♋58	2°R26	23♋34	24♋27	3°R20	4♊10	22♊46	19°R44	13°R 6	18°R33	17♐38	4♈59	n.a.	S 1
M 2	22 32 3	5°59'53	13♌25	1♍23	24°10	25° 4	3♈14	4°12	22°48	19♐44	13♓ 5	18♐25	17°35	5° 5	n.a.	M 2
T 3	22 35 59	6°59'05	28°16	0°25	24°47	25°41	3° 8	4°14	22°49	19°44	13° 4	18°15	17°32	5°12	n.a.	T 3
W 4	22 39 56	7°58'19	13♍24	29♌34	25°25	26°18	3° 1	4°16	22°51	19°D44	13° 2	18° 4	17°29	5°19	n.a.	W 4
T 5	22 43 52	8°57'35	28°36	28°50	26° 4	26°55	2°54	4°17	22°52	19°44	13° 1	17°53	17°26	5°26	n.a.	T 5
F 6	22 47 49	9°56'54	13♎43	28°16	26°45	27°32	2°47	4°19	22°54	19°44	13° 0	17°43	17°22	5°32	n.a.	F 6
S 7	22 51 45	10°56'14	28°36	27°51	27°27	28° 9	2°40	4°20	22°55	19°44	12°59	17°36	17°19	5°39	n.a.	S 7
S 8	22 55 42	11°55'36	13♏ 6	27°37	28° 9	28°46	2°33	4°22	22°56	19°44	12°58	17°31	17°16	5°46	n.a.	S 8
M 9	22 59 38	12°55'00	27°12	27°D34	28°53	29°22	2°26	4°23	22°58	19°45	12°57	17°29	17°13	5°52	n.a.	M 9
T 10	23 3 35	13°54'26	10♐53	27°42	29°38	29°59	2°19	4°24	22°59	19°45	12°55	17°29	17°10	5°59	n.a.	T 10
W11	23 7 32	14°53'54	24°11	28° 0	0♌24	0♌36	2°11	4°25	23° 0	19°45	12°54	17°29	17° 7	6° 6	n.a.	W11
T 12	23 11 28	15°53'23	7♑ 9	28°28	1°10	1°12	2° 4	4°26	23° 1	19°45	12°53	17°28	17° 3	6°13	n.a.	T 12
F 13	23 15 25	16°52'55	19°49	29° 5	1°58	1°49	1°56	4°27	23° 2	19°45	12°52	17°25	17° 0	6°19	n.a.	F 13
S 14	23 19 21	17°52'28	2♒17	29°52	2°46	2°25	1°49	4°28	23° 3	19°46	12°51	17°19	16°57	6°26	n.a.	S 14
S 15	23 23 18	18°52'03	14°34	0♍46	3°36	3° 2	1°41	4°28	23° 4	19°46	12°50	17°11	16°54	6°33	n.a.	S 15
M16	23 27 14	19°51'40	26°44	1°48	4°26	3°38	1°33	4°29	23° 5	19°46	12°48	16°59	16°51	6°39	n.a.	M16
T 17	23 31 11	20°51'19	8♓47	2°55	5°16	4°15	1°25	4°29	23° 6	19°47	12°47	16°46	16°47	6°46	n.a.	T 17
W18	23 35 7	21°51'00	20°45	4° 9	6° 8	4°51	1°17	4°29	23° 7	19°47	12°46	16°31	16°44	6°53	n.a.	W18
T 19	23 39 4	22°50'44	2♈39	5°27	7° 0	5°27	1° 9	4°29	23° 7	19°48	12°45	16°17	16°41	7° 0	n.a.	T 19
F 20	23 43 0	23°50'29	14°30	6°50	7°53	6° 3	1° 1	4°R29	23° 8	19°48	12°44	16° 4	16°38	7° 6	n.a.	F 20
S 21	23 46 57	24°50'17	26°21	8°16	8°47	6°40	0°53	4°29	23° 9	19°49	12°43	15°53	16°35	7°13	n.a.	S 21
S 22	23 50 54	25°50'06	8♉13	9°45	9°41	7°16	0°45	4°29	23° 9	19°49	12°41	15°45	16°32	7°20	n.a.	S 22
M23	23 54 50	26°49'58	20°10	11°17	10°36	7°52	0°37	4°29	23°10	19°50	12°40	15°40	16°28	7°26	n.a.	M23
T 24	23 58 47	27°49'53	2♊14	12°51	11°32	8°28	0°29	4°28	23°10	19°51	12°39	15°37	16°25	7°33	n.a.	T 24
W25	0 2 43	28°49'49	14°31	14°26	12°28	9° 4	0°21	4°28	23°11	19°51	12°38	15°D36	16°22	7°40	n.a.	W25
T 26	0 6 40	29°49'48	27° 4	16° 3	13°25	9°40	0°13	4°27	23°11	19°52	12°37	15°R37	16°19	7°47	n.a.	T 26
F 27	0 10 36	0♎49'50	10♋ 0	17°40	14°22	10°16	0° 5	4°26	23°11	19°53	12°36	15°36	16°16	7°53	n.a.	F 27
S 28	0 14 33	1°49'53	23°22	19°19	15°20	10°52	29♓56	4°25	23°12	19°54	12°35	15°34	16°12	8° 0	n.a.	S 28
S 29	0 18 29	2°49'59	7♌14	20°58	16°18	11°28	29°48	4°24	23°12	19°54	12°34	15°30	16° 9	8° 7	n.a.	S 29
M30	0 22 26	3♎50'07	21♌35	22♍37	17♌17	12♌ 4	29♓40	4♊23	23♊12	19♐55	12♓33	15♐24	16♐ 6	8♈13	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n47	17n24	3s16	8n27	2s26	17n11	4s30	22n36	1n 9	0s14	1s43	19n41	1s33	23n44	0n13	22s25	0n53	22s41	17s25	23s13	23s 8	6n30		n.a.
M 2	9 25	13 2	4 7	9 7	2 8	17 14	4 21	22 30	1 10	0 16	1 43	19 42	1 34	23 44	0 13	22 25	0 53	22 42	17 25	23 12	23 8	6 32		n.a.
T 3	9 3	7 47	4 43	9 46	1 48	17 16	4 13	22 24	1 10	0 19	1 43	19 42	1 34	23 44	0 13	22 25	0 53	22 42	17 25	23 11	23 7	6 35		n.a.
W 4	8 41	2 0	5 0	10 23	1 28	17 18	4 4	22 17	1 11	0 22	1 43	19 42	1 34	23 44	0 13	22 25	0 53	22 43	17 25	23 10	23 7	6 37		n.a.
T 5	8 18	3s57	4 55	10 57	1 8	17 20	3 55	22 11	1 11	0 25	1 43	19 42	1 34	23 44	0 13	22 26	0 53	22 43	17 25	23 9	23 7	6 40		n.a.
F 6	7 56	9 37	4 31	11 28	0 48	17 20	3 47	22 4	1 12	0 28	1 44	19 43	1 34	23 44	0 13	22 26	0 53	22 44	17 25	23 8	23 6	6 42		n.a.
S 7	7 33	14 38	3 48	11 55	0 28	17 21	3 38	21 57	1 12	0 31	1 44	19 43	1 34	23 44	0 13	22 26	0 53	22 44	17 26	23 8	23 6	6 45		n.a.
S 8	7 10	18 40	2 51	12 17	0 9	17 21	3 29	21 50	1 13	0 33	1 44	19 43	1 34	23 44	0 13	22 26	0 53	22 45	17 26	23 7	23 6	6 47		n.a.
M 9	6 47	21 28	1 45	12 35	0n 8	17 20	3 21	21 43	1 13	0 36	1 44	19 43	1 34	23 45	0 13	22 26	0 53	22 45	17 26	23 7	23 5	6 49		n.a.
T 10	6 24	22 54	0 35	12 48	0 25	17 20	3 12	21 35	1 14	0 39	1 44	19 43	1 34	23 45	0 13	22 26	0 53	22 46	17 26	23 7	23 5	6 52		n.a.
W11	6 1	23 0	0n35	12 56	0 40	17 18	3 4	21 28	1 14	0 43	1 44	19 43	1 34	23 45	0 13	22 26	0 53	22 46	17 26	23 7	23 5	6 54		n.a.
T 12	5 38	21 49	1 42	12 59	0 54	17 16	2 56	21 20	1 15	0 46	1 44	19 43	1 34	23 45	0 13	22 26	0 53	22 46	17 25	23 7	23 4	6 57		n.a.
F 13	5 14	19 34	2 42	12 58	1 7	17 14	2 48	21 13	1 15	0 49	1 44	19 43	1 35	23 45	0 13	22 26	0 53	22 47	17 25	23 7	23 4	6 59		n.a.
S 14	4 51	16 25	3 33	12 52	1 18	17 11	2 39	21 5	1 16	0 52	1 44	19 43	1 35	23 45	0 13	22 26	0 53	22 47	17 25	23 6	23 4	7 2		n.a.
S 15	4 27	12 37	4 13	12 42	1 28	17 7	2 31	20 57	1 17	0 55	1 44	19 43	1 35	23 45	0 13	22 26	0 53	22 48	17 25	23 5	23 4	7 4		n.a.
M16	4 4	8 20	4 41	12 27	1 36	17 3	2 23	20 49	1 17	0 58	1 44	19 43	1 35	23 45	0 13	22 26	0 53	22 48	17 25	23 4	23 3	7 6		n.a.
T 17	3 40	3 48	4 57	12 9	1 43	16 59	2 15	20 40	1 18	1 1	1 44	19 43	1 35	23 45	0 13	22 26	0 53	22 49	17 25	23 3	23 3	7 9		n.a.
W18	3 16	0n52	4 59	11 47	1 49	16 54	2 8	20 32	1 18	1 5	1 45	19 43	1 35	23 45	0 13	22 26	0 53	22 49	17 25	23 1	23 3	7 11		n.a.
T 19	2 52	5 27	4 48	11 22	1 54	16 48	2 0	20 24	1 19	1 8	1 45	19 43	1 35	23 45	0 13	22 26	0 53	22 49	17 25	23 0	23 2	7 14		n.a.
F 20	2 28	9 50	4 24	10 55	1 57	16 42	1 52	20 15	1 19	1 11	1 45	19 43	1 35	23 45	0 13	22 26	0 53	22 50	17 25	22 58	23 2	7 16		n.a.
S 21	2 4	13 50	3 49	10 24	2 0	16 35	1 45	20 6	1 20	1 14	1 45	19 43	1 35	23 45	0 13	22 27	0 53	22 50	17 25	22 57	23 2	7 19		n.a.
S 22	1 40	17 18	3 4	9 52	2 1	16 28	1 38	19 58	1 20	1 18	1 45	19 43	1 35	23 45	0 13	22 27	0 53	22 51	17 25	22 56	23 1	7 21		n.a.
M23	1 16	20 5	2 10	9 17	2 2	16 20	1 30	19 49	1 21	1 21	1 45	19 43	1 35	23 46	0 13	22 27	0 53	22 51	17 25	22 56	23 1	7 23		n.a.
T 24	0 52	22 0	1 10	8 41	2 1	16 11	1 23	19 40	1 21	1 24	1 45	19 43	1 36	23 46	0 14	22 27	0 52	22 51	17 25	22 56	23 1	7 26		n.a.
W25	0 28	22 54	0 6	8 3	2 0	16 3	1 16	19 31	1 22	1 27	1 44	19 43	1 36	23 46	0 14	22 27	0 52	22 52	17 25	22 56	23 0	7 28		n.a.
T 26	0 4	22 40	1s 0	7 23	1 59	15 53	1 9	19 21	1 22	1 31	1 44	19 42	1 36	23 46	0 14	22 27	0 52	22 52	17 25	22 56	23 0	7 31		n.a.
F 27	0s20	21 15	2 6	6 43	1 57	15 43	1 2	19 12	1 23	1 34	1 44	19 42	1 36	23 46	0 14	22 27	0 52	22 52	17 24	22 55	23 0	7 33		n.a.
S 28	0 44	18 36	3 6	6 1	1 54	15 32	0 55	19 3	1 24	1 37	1 44	19 42	1 36	23 46	0 14	22 27	0 52	22 53	17 24	22 55	22 59	7 35		n.a.
S 29	1 8	14 50	3 58	5 19	1 51	15 21	0 49	18 53	1 24	1 40	1 44	19 42	1 36	23 46	0 14	22 27	0 52	22 53	17 24	22 55	22 59	7 38		n.a.
M30	1s32	10n 6	4s37	4n36	1n47	15n10	0s42	18n43	1n25	1s43	1s44	19n41	1s36	23n46	0n14	22s27	0n52	22s53	17s24	22s54	22s59	7n40		n.a.

Julian Day Number = 1667244.5, Delta T = 03h22m30s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'54, Lahiri = - 5°59'53 Julian Calendar 1 Sept. 149 BCE == Greg. Calendar 29 Aug. 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

OCTOBER 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 26 23	4♎50'17	6♍23	24♍17	18♌17	12♌40	29°R32	4°R22	23♊12	19♐56	12°R31	15°R15	16♐ 3	8♈20	n.a.	T 1
W 2	0 30 19	5°50'29	21°32	25°56	19°16	13°16	29♓24	4♊21	23°R12	19°57	12♓30	15♐ 4	16° 0	8°27	n.a.	W 2
T 3	0 34 16	6°50'43	6♎52	27°36	20°17	13°51	29°16	4°19	23°12	19°58	12°29	14°54	15°57	8°34	n.a.	T 3
F 4	0 38 12	7°51'00	22°11	29°16	21°17	14°27	29° 8	4°18	23°12	19°59	12°28	14°45	15°53	8°40	n.a.	F 4
S 5	0 42 9	8°51'17	7♏18	0♎55	22°19	15° 3	29° 0	4°16	23°12	20° 0	12°27	14°37	15°50	8°47	n.a.	S 5
S 6	0 46 5	9°51'37	22° 4	2°34	23°20	15°38	28°52	4°14	23°12	20° 1	12°26	14°33	15°47	8°54	n.a.	S 6
M 7	0 50 2	10°51'58	6♐23	4°13	24°22	16°14	28°44	4°13	23°11	20° 2	12°25	14°31	15°44	9° 0	n.a.	M 7
T 8	0 53 58	11°52'21	20°14	5°52	25°24	16°49	28°37	4°11	23°11	20° 3	12°24	14°D31	15°41	9° 7	n.a.	T 8
W 9	0 57 55	12°52'46	3♑38	7°30	26°27	17°24	28°29	4° 8	23°11	20° 4	12°23	14°31	15°38	9°14	n.a.	W 9
T 10	1 1 52	13°53'12	16°36	9° 8	27°30	18° 0	28°21	4° 6	23°10	20° 5	12°22	14°R32	15°34	9°21	n.a.	T 10
F 11	1 5 48	14°53'39	29°15	10°46	28°33	18°35	28°14	4° 4	23°10	20° 6	12°21	14°30	15°31	9°27	n.a.	F 11
S 12	1 9 45	15°54'08	11♒37	12°23	29°37	19°10	28° 7	4° 2	23° 9	20° 8	12°20	14°27	15°28	9°34	n.a.	S 12
S 13	1 13 41	16°54'38	23°47	14° 0	0♍41	19°46	27°59	3°59	23° 9	20° 9	12°19	14°21	15°25	9°41	n.a.	S 13
M14	1 17 38	17°55'09	5♓48	15°37	1°46	20°21	27°52	3°56	23° 8	20°10	12°18	14°13	15°22	9°47	n.a.	M14
T 15	1 21 34	18°55'43	17°44	17°14	2°50	20°56	27°45	3°54	23° 7	20°11	12°18	14° 3	15°18	9°54	n.a.	T 15
W16	1 25 31	19°56'17	29°38	18°50	3°55	21°31	27°38	3°51	23° 7	20°13	12°17	13°52	15°15	10° 1	n.a.	W16
T 17	1 29 27	20°56'53	11♈29	20°26	5° 0	22° 6	27°31	3°48	23° 6	20°14	12°16	13°41	15°12	10° 7	n.a.	T 17
F 18	1 33 24	21°57'31	23°22	22° 1	6° 6	22°41	27°24	3°45	23° 5	20°15	12°15	13°31	15° 9	10°14	n.a.	F 18
S 19	1 37 20	22°58'10	5♉16	23°37	7°12	23°15	27°18	3°42	23° 4	20°17	12°14	13°23	15° 6	10°21	n.a.	S 19
S 20	1 41 17	23°58'51	17°14	25°12	8°18	23°50	27°11	3°39	23° 3	20°18	12°13	13°17	15° 3	10°28	n.a.	S 20
M21	1 45 14	24°59'33	29°17	26°47	9°24	24°25	27° 5	3°36	23° 2	20°20	12°12	13°14	14°59	10°34	n.a.	M21
T 22	1 49 10	26° 0'17	11♊28	28°21	10°31	25° 0	26°59	3°32	23° 1	20°21	12°12	13°D13	14°56	10°41	n.a.	T 22
W23	1 53 7	27° 1'03	23°50	29°56	11°38	25°34	26°53	3°29	23° 0	20°23	12°11	13°13	14°53	10°48	n.a.	W23
T 24	1 57 3	28° 1'51	6♋27	1♏30	12°45	26° 9	26°47	3°25	22°59	20°24	12°10	13°15	14°50	10°54	n.a.	T 24
F 25	2 1 0	29° 2'40	19°21	3° 4	13°52	26°43	26°41	3°22	22°58	20°26	12° 9	13°16	14°47	11° 1	n.a.	F 25
S 26	2 4 56	0♏ 3'30	2♌38	4°38	15° 0	27°18	26°35	3°18	22°57	20°27	12° 9	13°R16	14°43	11° 8	n.a.	S 26
S 27	2 8 53	1° 4'23	16°19	6°12	16° 8	27°52	26°30	3°14	22°55	20°29	12° 8	13°15	14°40	11°15	n.a.	S 27
M28	2 12 49	2° 5'16	0♍26	7°45	17°16	28°26	26°25	3°11	22°54	20°31	12° 7	13°12	14°37	11°21	n.a.	M28
T 29	2 16 46	3° 6'12	14°58	9°19	18°24	29° 0	26°20	3° 7	22°53	20°32	12° 6	13° 7	14°34	11°28	n.a.	T 29
W30	2 20 43	4° 7'08	29°51	10°52	19°33	29°34	26°15	3° 3	22°51	20°34	12° 6	13° 2	14°31	11°35	n.a.	W30
T 31	2 24 39	5♏ 8'07	14♎59	12♏26	20♍41	0♍ 9	26♓10	2♊59	22♊50	20♐36	12♓ 5	12♐56	14♐28	11♈41	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	1s57	4n39	4s59	3n52	1n43	14n57	0s36	18n34	1n25	1s47	1s44	19n41	1s36	23n46	0n14	22s27	0n52	22s54	17s24	22s53	22s58	7n42		n.a.
W 2	2 21	1s12	5 0	3 8	1 38	14 45	0 29	18 24	1 26	1 50	1 44	19 41	1 36	23 46	0 14	22 28	0 52	22 54	17 24	22 52	22 58	7 45		n.a.
T 3	2 45	7 2	4 41	2 24	1 34	14 32	0 23	18 14	1 26	1 53	1 44	19 40	1 36	23 46	0 14	22 28	0 52	22 54	17 24	22 51	22 58	7 47		n.a.
F 4	3 9	12 27	4 1	1 39	1 29	14 18	0 17	18 4	1 27	1 56	1 44	19 40	1 36	23 46	0 14	22 28	0 52	22 54	17 23	22 50	22 57	7 50		n.a.
S 5	3 33	17 0	3 4	0 54	1 23	14 4	0 11	17 54	1 27	1 59	1 44	19 40	1 36	23 46	0 14	22 28	0 52	22 55	17 23	22 49	22 57	7 52		n.a.
S 6	3 57	20 22	1 57	0 9	1 18	13 49	0 5	17 44	1 28	2 2	1 44	19 39	1 36	23 46	0 14	22 28	0 52	22 55	17 23	22 48	22 57	7 54		n.a.
M 7	4 21	22 20	0 43	0s36	1 12	13 33	0n 1	17 34	1 28	2 5	1 44	19 39	1 37	23 46	0 14	22 28	0 52	22 55	17 23	22 48	22 56	7 57		n.a.
T 8	4 45	22 50	0n31	1 21	1 6	13 18	0 6	17 23	1 29	2 8	1 43	19 38	1 37	23 46	0 14	22 28	0 52	22 55	17 23	22 48	22 56	7 59		n.a.
W 9	5 9	22 0	1 40	2 6	1 0	13 1	0 12	17 13	1 30	2 11	1 43	19 38	1 37	23 46	0 14	22 28	0 52	22 56	17 23	22 48	22 56	8 1		n.a.
T 10	5 32	19 59	2 43	2 50	0 54	12 45	0 17	17 2	1 30	2 14	1 43	19 38	1 37	23 46	0 14	22 29	0 52	22 56	17 22	22 48	22 55	8 4		n.a.
F 11	5 56	17 2	3 35	3 35	0 47	12 27	0 22	16 52	1 31	2 17	1 43	19 37	1 37	23 46	0 14	22 29	0 52	22 56	17 22	22 48	22 55	8 6		n.a.
S 12	6 20	13 23	4 17	4 19	0 41	12 10	0 27	16 41	1 31	2 20	1 43	19 37	1 37	23 46	0 14	22 29	0 52	22 56	17 22	22 48	22 55	8 8		n.a.
S 13	6 43	9 15	4 46	5 3	0 35	11 52	0 32	16 30	1 32	2 23	1 43	19 36	1 37	23 46	0 14	22 29	0 52	22 56	17 22	22 47	22 54	8 11		n.a.
M14	7 6	4 49	5 2	5 47	0 28	11 33	0 37	16 20	1 32	2 25	1 42	19 35	1 37	23 46	0 14	22 29	0 52	22 57	17 22	22 46	22 54	8 13		n.a.
T 15	7 30	0 14	5 4	6 31	0 22	11 14	0 42	16 9	1 33	2 28	1 42	19 35	1 37	23 46	0 14	22 29	0 52	22 57	17 21	22 45	22 54	8 15		n.a.
W16	7 53	4n20	4 54	7 14	0 15	10 55	0 47	15 58	1 33	2 31	1 42	19 34	1 37	23 46	0 14	22 29	0 52	22 57	17 21	22 44	22 53	8 18		n.a.
T 17	8 16	8 44	4 30	7 56	0 8	10 35	0 51	15 47	1 34	2 33	1 42	19 34	1 37	23 46	0 14	22 29	0 52	22 57	17 21	22 42	22 53	8 20		n.a.
F 18	8 39	12 48	3 55	8 39	0 2	10 14	0 56	15 36	1 35	2 36	1 42	19 33	1 37	23 46	0 14	22 30	0 52	22 57	17 21	22 41	22 52	8 22		n.a.
S 19	9 2	16 24	3 10	9 21	0s 5	9 54	1 0	15 25	1 35	2 38	1 41	19 33	1 37	23 46	0 14	22 30	0 52	22 57	17 20	22 40	22 52	8 25		n.a.
S 20	9 24	19 20	2 15	10 2	0 11	9 33	1 4	15 14	1 36	2 41	1 41	19 32	1 37	23 46	0 14	22 30	0 52	22 57	17 20	22 39	22 52	8 27		n.a.
M21	9 47	21 26	1 15	10 43	0 18	9 11	1 8	15 3	1 36	2 43	1 41	19 31	1 37	23 46	0 14	22 30	0 51	22 58	17 20	22 39	22 51	8 29		n.a.
T 22	10 9	22 34	0 9	11 23	0 24	8 49	1 12	14 51	1 37	2 45	1 41	19 31	1 37	23 46	0 14	22 30	0 51	22 58	17 20	22 39	22 51	8 32		n.a.
W23	10 32	22 37	0s57	12 3	0 31	8 27	1 16	14 40	1 37	2 47	1 41	19 30	1 37	23 46	0 14	22 30	0 51	22 58	17 19	22 39	22 51	8 34		n.a.
T 24	10 54	21 31	2 2	12 42	0 37	8 4	1 20	14 29	1 38	2 50	1 40	19 29	1 37	23 46	0 14	22 30	0 51	22 58	17 19	22 39	22 50	8 36		n.a.
F 25	11 16	19 17	3 3	13 21	0 43	7 41	1 23	14 17	1 39	2 52	1 40	19 29	1 37	23 46	0 14	22 31	0 51	22 58	17 19	22 39	22 50	8 39		n.a.
S 26	11 37	15 58	3 56	13 59	0 49	7 18	1 27	14 6	1 39	2 54	1 40	19 28	1 37	23 46	0 14	22 31	0 51	22 58	17 19	22 39	22 50	8 41		n.a.
S 27	11 59	11 44	4 37	14 37	0 56	6 55	1 30	13 55	1 40	2 56	1 40	19 27	1 37	23 45	0 14	22 31	0 51	22 58	17 18	22 39	22 49	8 43		n.a.
M28	12 20	6 44	5 3	15 13	1 1	6 31	1 33	13 43	1 40	2 57	1 39	19 26	1 37	23 45	0 14	22 31	0 51	22 58	17 18	22 39	22 49	8 46		n.a.
T 29	12 41	1 14	5 10	15 49	1 7	6 6	1 36	13 31	1 41	2 59	1 39	19 26	1 37	23 45	0 14	22 31	0 51	22 58	17 18	22 38	22 48	8 48		n.a.
W30	13 2	4s28	4 57	16 25	1 13	5 42	1 39	13 20	1 41	3 1	1 39	19 25	1 37	23 45	0 14	22 31	0 51	22 58	17 17	22 37	22 48	8 50		n.a.
T 31	13s23	10s 0	4s23	16s59	1s19	5n17	1n42	13n 8	1n42	3s 3	1s38	19n24	1s37	23n45	0n14	22s31	0n51	22s58	17s17	22s36	22s48	8n53		n.a.

Julian Day Number = 1667274.5, Delta T = 03h22m29s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'49, Lahiri = - 5°59'49 Julian Calendar 1 Oct. 149 BCE == Greg. Calendar 28 Sept. 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

NOVEMBER 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 28 36	6♏ 9'06	0♏10	13♏59	21♍50	0♍42	26°R 5	2°R54	22°R48	20♐37	12°R 4	12°R50	14♐24	11♈48	n.a.	F 1
S 2	2 32 32	7°10'07	15°16	15°32	22°59	1°16	26♓ 1	2♊50	22♊47	20°39	12♓ 4	12♐46	14°21	11°55	n.a.	S 2
S 3	2 36 29	8°11'08	0♐ 7	17° 6	24° 8	1°50	25°57	2°46	22°45	20°41	12° 3	12°44	14°18	12° 2	n.a.	S 3
M 4	2 40 25	9°12'11	14°34	18°39	25°18	2°24	25°53	2°42	22°43	20°43	12° 3	12°D43	14°15	12° 8	n.a.	M 4
T 5	2 44 22	10°13'15	28°36	20°12	26°27	2°58	25°49	2°37	22°42	20°45	12° 2	12°44	14°12	12°15	n.a.	T 5
W 6	2 48 18	11°14'19	12♑ 9	21°45	27°37	3°31	25°45	2°33	22°40	20°46	12° 2	12°46	14° 9	12°22	n.a.	W 6
T 7	2 52 15	12°15'24	25°16	23°18	28°47	4° 5	25°42	2°28	22°38	20°48	12° 1	12°47	14° 5	12°28	n.a.	T 7
F 8	2 56 12	13°16'30	7♒59	24°50	29°57	4°38	25°39	2°24	22°37	20°50	12° 1	12°R48	14° 2	12°35	n.a.	F 8
S 9	3 0 8	14°17'36	20°24	26°23	1♎ 7	5°11	25°36	2°19	22°35	20°52	12° 0	12°48	13°59	12°42	n.a.	S 9
S 10	3 4 5	15°18'43	2♓33	27°56	2°17	5°45	25°33	2°15	22°33	20°54	12° 0	12°47	13°56	12°48	n.a.	S 10
M11	3 8 1	16°19'50	14°32	29°28	3°28	6°18	25°30	2°10	22°31	20°56	11°59	12°44	13°53	12°55	n.a.	M11
T 12	3 11 58	17°20'57	26°26	1♐ 0	4°38	6°51	25°28	2° 5	22°29	20°58	11°59	12°40	13°49	13° 2	n.a.	T 12
W13	3 15 54	18°22'06	8♈17	2°32	5°49	7°24	25°25	2° 1	22°27	21° 0	11°59	12°36	13°46	13° 9	n.a.	W13
T 14	3 19 51	19°23'14	20° 8	4° 3	7° 0	7°57	25°23	1°56	22°25	21° 2	11°58	12°32	13°43	13°15	n.a.	T 14
F 15	3 23 47	20°24'24	2♉ 3	5°34	8°11	8°29	25°22	1°51	22°23	21° 4	11°58	12°28	13°40	13°22	n.a.	F 15
S 16	3 27 44	21°25'34	14° 4	7° 5	9°22	9° 2	25°20	1°46	22°21	21° 6	11°58	12°25	13°37	13°29	n.a.	S 16
S 17	3 31 41	22°26'44	26°11	8°35	10°33	9°35	25°19	1°41	22°19	21° 8	11°57	12°23	13°34	13°35	n.a.	S 17
M18	3 35 37	23°27'55	8♊27	10° 4	11°44	10° 7	25°17	1°36	22°16	21°10	11°57	12°D22	13°30	13°42	n.a.	M18
T 19	3 39 34	24°29'07	20°53	11°32	12°55	10°39	25°16	1°31	22°14	21°12	11°57	12°22	13°27	13°49	n.a.	T 19
W20	3 43 30	25°30'19	3♋30	12°59	14° 7	11°12	25°16	1°26	22°12	21°14	11°57	12°23	13°24	13°56	n.a.	W20
T 21	3 47 27	26°31'32	16°21	14°25	15°19	11°44	25°15	1°22	22°10	21°16	11°56	12°24	13°21	14° 2	n.a.	T 21
F 22	3 51 23	27°32'45	29°25	15°49	16°30	12°16	25°15	1°17	22° 8	21°18	11°56	12°26	13°18	14° 9	n.a.	F 22
S 23	3 55 20	28°33'59	12♌46	17°11	17°42	12°48	25°D15	1°12	22° 5	21°21	11°56	12°27	13°15	14°16	n.a.	S 23
S 24	3 59 17	29°35'14	26°25	18°31	18°54	13°20	25°15	1° 7	22° 3	21°23	11°56	12°R27	13°11	14°22	n.a.	S 24
M25	4 3 13	0♐36'29	10♍21	19°48	20° 6	13°51	25°15	1° 2	22° 1	21°25	11°56	12°27	13° 8	14°29	n.a.	M25
T 26	4 7 10	1°37'44	24°36	21° 3	21°18	14°23	25°15	0°57	21°58	21°27	11°56	12°26	13° 5	14°36	n.a.	T 26
W27	4 11 6	2°39'00	9♎ 6	22°13	22°30	14°55	25°16	0°52	21°56	21°29	11°56	12°25	13° 2	14°42	n.a.	W27
T 28	4 15 3	3°40'17	23°48	23°19	23°42	15°26	25°17	0°47	21°53	21°31	11°56	12°24	12°59	14°49	n.a.	T 28
F 29	4 18 59	4°41'33	8♏35	24°20	24°55	15°57	25°18	0°42	21°51	21°34	11°D56	12°23	12°55	14°56	n.a.	F 29
S 30	4 22 56	5♐42'51	23♏21	25♐16	26♎ 7	16♍28	25♓19	0♊37	21♊48	21♐36	11♓56	12♐23	12♐52	15♈ 3	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s43	14s57	3s31	17s33	1s24	4n52	1n44	12n57	1n43	3s 4	1s38	19n23	1s37	23n45	0n14	22s32	0n51	22s58	17s17	22s36	22s47	8n55		n.a.
S 2	14 4	18 54	2 24	18 6	1 29	4 27	1 47	12 45	1 43	3 6	1 38	19 22	1 37	23 45	0 14	22 32	0 51	22 58	17 17	22 35	22 47	8 57		n.a.
S 3	14 24	21 31	1 8	18 38	1 34	4 1	1 49	12 33	1 44	3 7	1 38	19 22	1 37	23 45	0 14	22 32	0 51	22 58	17 16	22 35	22 47	8 59		n.a.
M 4	14 44	22 38	0n10	19 9	1 39	3 36	1 52	12 22	1 44	3 9	1 37	19 21	1 37	23 45	0 14	22 32	0 51	22 58	17 16	22 35	22 46	9 2		n.a.
T 5	15 3	22 17	1 26	19 39	1 44	3 10	1 54	12 10	1 45	3 10	1 37	19 20	1 37	23 45	0 14	22 32	0 51	22 58	17 16	22 35	22 46	9 4		n.a.
W 6	15 22	20 36	2 34	20 9	1 48	2 44	1 56	11 58	1 46	3 11	1 37	19 19	1 37	23 45	0 14	22 32	0 51	22 58	17 15	22 35	22 45	9 6		n.a.
T 7	15 41	17 51	3 32	20 37	1 52	2 17	1 58	11 46	1 46	3 12	1 36	19 18	1 37	23 45	0 14	22 33	0 51	22 57	17 15	22 35	22 45	9 9		n.a.
F 8	16 0	14 20	4 18	21 4	1 56	1 51	2 0	11 34	1 47	3 13	1 36	19 17	1 37	23 45	0 14	22 33	0 51	22 57	17 15	22 36	22 45	9 11		n.a.
S 9	16 19	10 16	4 50	21 30	2 0	1 24	2 1	11 23	1 47	3 14	1 36	19 16	1 37	23 45	0 14	22 33	0 51	22 57	17 14	22 36	22 44	9 13		n.a.
S 10	16 37	5 53	5 9	21 55	2 3	0 57	2 3	11 11	1 48	3 15	1 35	19 16	1 37	23 44	0 14	22 33	0 51	22 57	17 14	22 35	22 44	9 15		n.a.
M11	16 55	1 20	5 13	22 19	2 6	0 31	2 4	10 59	1 49	3 16	1 35	19 15	1 37	23 44	0 15	22 33	0 51	22 57	17 14	22 35	22 44	9 18		n.a.
T 12	17 12	3n13	5 5	22 41	2 8	0 3	2 6	10 47	1 49	3 16	1 35	19 14	1 37	23 44	0 15	22 33	0 51	22 57	17 13	22 35	22 43	9 20		n.a.
W13	17 30	7 38	4 43	23 2	2 11	0s24	2 7	10 35	1 50	3 17	1 35	19 13	1 37	23 44	0 15	22 34	0 51	22 57	17 13	22 34	22 43	9 22		n.a.
T 14	17 46	11 47	4 9	23 22	2 13	0 51	2 8	10 23	1 50	3 17	1 34	19 12	1 37	23 44	0 15	22 34	0 51	22 56	17 13	22 33	22 42	9 24		n.a.
F 15	18 3	15 31	3 24	23 40	2 14	1 18	2 9	10 11	1 51	3 18	1 34	19 11	1 37	23 44	0 15	22 34	0 51	22 56	17 12	22 33	22 42	9 27		n.a.
S 16	18 19	18 37	2 30	23 57	2 15	1 46	2 10	10 0	1 52	3 18	1 34	19 10	1 37	23 44	0 15	22 34	0 51	22 56	17 12	22 32	22 42	9 29		n.a.
S 17	18 35	20 57	1 28	24 13	2 15	2 13	2 11	9 48	1 52	3 18	1 33	19 9	1 37	23 44	0 15	22 34	0 51	22 56	17 12	22 32	22 41	9 31		n.a.
M18	18 51	22 19	0 22	24 27	2 15	2 41	2 11	9 36	1 53	3 19	1 33	19 8	1 37	23 44	0 15	22 34	0 51	22 56	17 11	22 32	22 41	9 33		n.a.
T 19	19 6	22 37	0s47	24 39	2 15	3 8	2 12	9 24	1 53	3 19	1 33	19 7	1 37	23 44	0 15	22 34	0 51	22 55	17 11	22 32	22 40	9 36		n.a.
W20	19 21	21 46	1 54	24 49	2 14	3 36	2 12	9 12	1 54	3 19	1 32	19 6	1 37	23 43	0 15	22 35	0 51	22 55	17 10	22 32	22 40	9 38		n.a.
T 21	19 36	19 46	2 57	24 58	2 12	4 3	2 13	9 0	1 55	3 19	1 32	19 5	1 37	23 43	0 15	22 35	0 51	22 55	17 10	22 32	22 40	9 40		n.a.
F 22	19 50	16 43	3 52	25 5	2 9	4 31	2 13	8 48	1 55	3 19	1 32	19 5	1 37	23 43	0 15	22 35	0 51	22 55	17 10	22 33	22 39	9 42		n.a.
S 23	20 4	12 46	4 35	25 11	2 6	4 59	2 13	8 37	1 56	3 18	1 31	19 4	1 36	23 43	0 15	22 35	0 51	22 54	17 9	22 33	22 39	9 45		n.a.
S 24	20 18	8 5	5 5	25 14	2 2	5 26	2 13	8 25	1 56	3 18	1 31	19 3	1 36	23 43	0 15	22 35	0 51	22 54	17 9	22 33	22 38	9 47		n.a.
M25	20 31	2 53	5 17	25 16	1 57	5 54	2 13	8 13	1 57	3 18	1 31	19 2	1 36	23 43	0 15	22 35	0 50	22 54	17 9	22 33	22 38	9 49		n.a.
T 26	20 43	2s34	5 10	25 15	1 51	6 21	2 13	8 1	1 58	3 17	1 30	19 1	1 36	23 43	0 15	22 36	0 50	22 54	17 8	22 33	22 38	9 51		n.a.
W27	20 56	7 59	4 43	25 13	1 44	6 48	2 13	7 50	1 58	3 16	1 30	19 0	1 36	23 43	0 15	22 36	0 50	22 53	17 8	22 33	22 37	9 53		n.a.
T 28	21 8	13 1	3 58	25 9	1 36	7 16	2 12	7 38	1 59	3 16	1 30	18 59	1 36	23 42	0 15	22 36	0 50	22 53	17 8	22 32	22 37	9 56		n.a.
F 29	21 19	17 19	2 57	25 3	1 27	7 43	2 12	7 26	2 0	3 15	1 29	18 58	1 36	23 42	0 15	22 36	0 50	22 53	17 7	22 32	22 36	9 58		n.a.
S 30	21s30	20s30	1s44	24s55	1s17	8s10	2n11	7n14	2n 0	3s14	1s29	18n57	1s36	23n42	0n15	22s36	0n50	22s52	17s 7	22s32	22s36	10n 0		n.a.

Julian Day Number = 1667305.5, Delta T = 03h22m28s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'45, Lahiri = - 5°59'45 Julian Calendar 1 Nov. 149 BCE == Greg. Calendar 29 Oct. 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 149 BCE
geocentric

DECEMBER 149 BCE (-148) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 26 52	6♐44'08	7♐58	26♐ 5	27♎20	16♍59	25♓21	0°R32	21°R46	21♐38	11♓56	12°D22	12♐49	15♈ 9	n.a.	S 1
M 2	4 30 49	7°45'25	22°20	26°47	28°32	17°30	25°22	0♊27	21♊43	21°40	11°56	12♐22	12°46	15°16	n.a.	M 2
T 3	4 34 46	8°46'42	6♑21	27°20	29°45	18° 1	25°24	0°22	21°41	21°42	11°56	12°23	12°43	15°23	n.a.	T 3
W 4	4 38 42	9°47'59	19°59	27°44	0♏57	18°31	25°27	0°17	21°38	21°45	11°56	12°23	12°40	15°29	n.a.	W 4
T 5	4 42 39	10°49'15	3♒12	27°58	2°10	19° 2	25°29	0°12	21°36	21°47	11°56	12°23	12°36	15°36	n.a.	T 5
F 6	4 46 35	11°50'31	16° 2	28°R 1	3°23	19°32	25°31	0° 7	21°33	21°49	11°56	12°23	12°33	15°43	n.a.	F 6
S 7	4 50 32	12°51'47	28°32	27°53	4°36	20° 2	25°34	0° 2	21°31	21°51	11°56	12°R23	12°30	15°49	n.a.	S 7
S 8	4 54 28	13°53'01	10♓45	27°33	5°49	20°32	25°37	29♉58	21°28	21°54	11°57	12°D23	12°27	15°56	n.a.	S 8
M 9	4 58 25	14°54'16	22°45	27° 1	7° 2	21° 2	25°40	29°53	21°26	21°56	11°57	12°23	12°24	16° 3	n.a.	M 9
T 10	5 2 21	15°55'29	4♈39	26°18	8°15	21°32	25°43	29°48	21°23	21°58	11°57	12°24	12°21	16°10	n.a.	T 10
W11	5 6 18	16°56'42	16°29	25°24	9°28	22° 1	25°47	29°44	21°20	22° 0	11°57	12°24	12°17	16°16	n.a.	W11
T 12	5 10 15	17°57'55	28°22	24°21	10°41	22°31	25°51	29°39	21°18	22° 3	11°58	12°25	12°14	16°23	n.a.	T 12
F 13	5 14 11	18°59'07	10♉19	23°10	11°54	23° 0	25°55	29°34	21°15	22° 5	11°58	12°25	12°11	16°30	n.a.	F 13
S 14	5 18 8	20° 0'18	22°26	21°54	13° 7	23°29	25°59	29°30	21°13	22° 7	11°58	12°26	12° 8	16°36	n.a.	S 14
S 15	5 22 4	21° 1'28	4♊44	20°36	14°20	23°58	26° 3	29°25	21°10	22° 9	11°59	12°26	12° 5	16°43	n.a.	S 15
M16	5 26 1	22° 2'38	17°15	19°17	15°33	24°26	26° 7	29°21	21° 8	22°12	11°59	12°R26	12° 1	16°50	n.a.	M16
T 17	5 29 57	23° 3'48	0♋ 0	18° 0	16°47	24°55	26°12	29°17	21° 5	22°14	11°59	12°26	11°58	16°56	n.a.	T 17
W18	5 33 54	24° 4'56	13° 0	16°48	18° 0	25°23	26°17	29°12	21° 2	22°16	12° 0	12°25	11°55	17° 3	n.a.	W18
T 19	5 37 51	25° 6'04	26°13	15°41	19°13	25°51	26°22	29° 8	21° 0	22°19	12° 0	12°23	11°52	17°10	n.a.	T 19
F 20	5 41 47	26° 7'12	9♌40	14°42	20°27	26°19	26°27	29° 4	20°57	22°21	12° 1	12°21	11°49	17°17	n.a.	F 20
S 21	5 45 44	27° 8'19	23°19	13°52	21°40	26°47	26°33	29° 0	20°55	22°23	12° 1	12°19	11°46	17°23	n.a.	S 21
S 22	5 49 40	28° 9'25	7♍ 9	13°11	22°54	27°15	26°38	28°56	20°52	22°25	12° 2	12°18	11°42	17°30	n.a.	S 22
M23	5 53 37	29°10'30	21° 8	12°38	24° 7	27°42	26°44	28°52	20°49	22°28	12° 2	12°17	11°39	17°37	n.a.	M23
T 24	5 57 33	0♑11'36	5♎14	12°16	25°21	28° 9	26°50	28°48	20°47	22°30	12° 3	12°D17	11°36	17°43	n.a.	T 24
W25	6 1 30	1°12'40	19°27	12° 2	26°34	28°36	26°56	28°44	20°44	22°32	12° 3	12°18	11°33	17°50	n.a.	W25
T 26	6 5 26	2°13'44	3♏44	11°D57	27°48	29° 3	27° 2	28°40	20°42	22°34	12° 4	12°19	11°30	17°57	n.a.	T 26
F 27	6 9 23	3°14'47	18° 3	11°59	29° 1	29°30	27° 8	28°37	20°39	22°37	12° 5	12°20	11°27	18° 3	n.a.	F 27
S 28	6 13 20	4°15'50	2♐19	12°10	0♐15	29°56	27°15	28°33	20°37	22°39	12° 5	12°21	11°23	18°10	n.a.	S 28
S 29	6 17 16	5°16'51	16°30	12°27	1°29	0♎22	27°22	28°30	20°34	22°41	12° 6	12°R22	11°20	18°17	n.a.	S 29
M30	6 21 13	6°17'52	0♑30	12°50	2°42	0°48	27°29	28°26	20°32	22°43	12° 7	12°21	11°17	18°24	n.a.	M30
T 31	6 25 9	7♑18'52	14♑16	13♐20	3♐56	1♎13	27♓36	28♉23	20♊29	22♐46	12♓ 7	12♐18	11♐14	18♈30	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	21s41	22s17	0s24	24s45	1s 6	8s37	2n10	7n 3	2n 1	3s13	1s29	18n56	1s36	23n42	0n15	22s36	0n50	22s52	17s 6	22s32	22s36	10n 2			n.a.
M 2	21 51	22 34	0n55	24 34	0 53	9 4	2 10	6 51	2 2	3 12	1 28	18 55	1 35	23 42	0 15	22 37	0 50	22 52	17 6	22 32	22 35	10 4			n.a.
T 3	22 1	21 24	2 9	24 21	0 40	9 30	2 9	6 40	2 2	3 11	1 28	18 54	1 35	23 42	0 15	22 37	0 50	22 51	17 6	22 32	22 35	10 7			n.a.
W 4	22 10	19 0	3 14	24 6	0 25	9 57	2 8	6 28	2 3	3 10	1 28	18 53	1 35	23 42	0 15	22 37	0 50	22 51	17 5	22 32	22 34	10 9			n.a.
T 5	22 19	15 40	4 6	23 50	0 8	10 23	2 7	6 17	2 3	3 9	1 27	18 53	1 35	23 41	0 15	22 37	0 50	22 50	17 5	22 32	22 34	10 11			n.a.
F 6	22 28	11 41	4 45	23 33	0n 9	10 49	2 6	6 5	2 4	3 8	1 27	18 52	1 35	23 41	0 15	22 37	0 50	22 50	17 5	22 32	22 34	10 13			n.a.
S 7	22 36	7 18	5 8	23 15	0 27	11 15	2 5	5 54	2 5	3 6	1 27	18 51	1 35	23 41	0 15	22 37	0 50	22 50	17 4	22 32	22 33	10 15			n.a.
S 8	22 44	2 44	5 17	22 55	0 46	11 40	2 3	5 43	2 5	3 5	1 26	18 50	1 35	23 41	0 15	22 37	0 50	22 49	17 4	22 32	22 33	10 18			n.a.
M 9	22 51	1n52	5 12	22 35	1 6	12 6	2 2	5 31	2 6	3 3	1 26	18 49	1 35	23 41	0 15	22 38	0 50	22 49	17 4	22 32	22 32	10 20			n.a.
T 10	22 58	6 21	4 54	22 14	1 25	12 31	2 0	5 20	2 7	3 1	1 26	18 48	1 34	23 41	0 15	22 38	0 50	22 48	17 3	22 32	22 32	10 22			n.a.
W11	23 4	10 36	4 23	21 53	1 45	12 56	1 59	5 9	2 7	3 0	1 25	18 47	1 34	23 40	0 15	22 38	0 50	22 48	17 3	22 32	22 31	10 24			n.a.
T 12	23 10	14 27	3 41	21 32	2 4	13 20	1 57	4 58	2 8	2 58	1 25	18 46	1 34	23 40	0 15	22 38	0 50	22 47	17 2	22 32	22 31	10 26			n.a.
F 13	23 15	17 45	2 49	21 11	2 21	13 45	1 56	4 47	2 9	2 56	1 25	18 46	1 34	23 40	0 15	22 38	0 50	22 47	17 2	22 33	22 31	10 28			n.a.
S 14	23 20	20 20	1 49	20 51	2 37	14 9	1 54	4 36	2 9	2 54	1 24	18 45	1 34	23 40	0 15	22 38	0 50	22 47	17 2	22 33	22 30	10 31			n.a.
S 15	23 24	22 1	0 43	20 32	2 51	14 32	1 52	4 25	2 10	2 52	1 24	18 44	1 34	23 40	0 15	22 39	0 50	22 46	17 1	22 33	22 30	10 33			n.a.
M16	23 28	22 39	0s27	20 14	3 3	14 56	1 50	4 14	2 11	2 50	1 24	18 43	1 33	23 40	0 15	22 39	0 50	22 46	17 1	22 33	22 29	10 35			n.a.
T 17	23 32	22 7	1 36	19 58	3 13	15 19	1 48	4 3	2 11	2 48	1 23	18 42	1 33	23 39	0 15	22 39	0 50	22 45	17 1	22 33	22 29	10 37			n.a.
W18	23 35	20 24	2 41	19 44	3 20	15 41	1 46	3 52	2 12	2 46	1 23	18 42	1 33	23 39	0 15	22 39	0 50	22 45	17 0	22 32	22 29	10 39			n.a.
T 19	23 37	17 33	3 39	19 33	3 25	16 4	1 44	3 41	2 13	2 43	1 23	18 41	1 33	23 39	0 15	22 39	0 50	22 44	17 0	22 32	22 28	10 41			n.a.
F 20	23 39	13 45	4 26	19 24	3 27	16 25	1 42	3 31	2 13	2 41	1 22	18 40	1 33	23 39	0 15	22 39	0 50	22 44	17 0	22 32	22 28	10 43			n.a.
S 21	23 41	9 12	4 59	19 18	3 27	16 47	1 40	3 20	2 14	2 39	1 22	18 40	1 33	23 39	0 15	22 39	0 50	22 43	16 59	22 32	22 27	10 46			n.a.
S 22	23 42	4 7	5 15	19 15	3 25	17 8	1 38	3 10	2 15	2 36	1 22	18 39	1 32	23 39	0 15	22 40	0 50	22 43	16 59	22 32	22 27	10 48			n.a.
M23	23 43	1s13	5 12	19 14	3 22	17 29	1 35	2 59	2 15	2 33	1 21	18 38	1 32	23 38	0 15	22 40	0 50	22 42	16 58	22 31	22 26	10 50			n.a.
T 24	23 43	6 33	4 51	19 16	3 17	17 49	1 33	2 49	2 16	2 31	1 21	18 37	1 32	23 38	0 15	22 40	0 50	22 41	16 58	22 31	22 26	10 52			n.a.
W25	23 42	11 35	4 12	19 20	3 11	18 8	1 31	2 39	2 17	2 28	1 21	18 37	1 32	23 38	0 15	22 40	0 50	22 41	16 58	22 32	22 25	10 54			n.a.
T 26	23 42	16 0	3 17	19 27	3 4	18 28	1 28	2 29	2 17	2 25	1 21	18 36	1 32	23 38	0 15	22 40	0 50	22 40	16 57	22 32	22 25	10 56			n.a.
F 27	23 40	19 29	2 10	19 35	2 56	18 46	1 26	2 19	2 18	2 22	1 20	18 36	1 31	23 38	0 15	22 40	0 50	22 40	16 57	22 32	22 25	10 58			n.a.
S 28	23 39	21 46	0 55	19 45	2 47	19 5	1 23	2 9	2 19	2 20	1 20	18 35	1 31	23 38	0 15	22 40	0 50	22 39	16 57	22 32	22 24	11 0			n.a.
S 29	23 36	22 38	0n23	19 56	2 38	19 22	1 21	1 59	2 20	2 17	1 20	18 34	1 31	23 37	0 15	22 40	0 50	22 39	16 56	22 32	22 24	11 3			n.a.
M30	23 34	22 4	1 38	20 8	2 29	19 40	1 18	1 49	2 20	2 13	1 19	18 34	1 31	23 37	0 15	22 41	0 50	22 38	16 56	22 32	22 23	11 5			n.a.
T 31	23s30	20s11	2n47	20s22	2n19	19s56	1n15	1n40	2n21	2s10	1s19	18n33	1s31	23n37	0n15	22s41	0n50	22s38	16s56	22s32	22s23	11n 7			n.a.

Julian Day Number = 1667335.5, Delta T = 03h22m27s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'41, Lahiri = - 5°59'41 Julian Calendar 1 Dec. 149 BCE == Greg. Calendar 28 Nov. 149 BCE

The year -148 astronomical counting style corresponds to year 149 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

JANUARY 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 29 6	8♉19'50	27♉46	13♐55	5♐10	1♎39	27♓43	28°R20	20°R27	22♐48	12♓ 8	12°R15	11♐11	18♈37	n.a.	W 1
T 2	6 33 2	9°20'47	10♒56	14°34	6°24	2° 4	27°50	28♉17	20♊24	22°50	12° 9	12♐10	11° 7	18°44	n.a.	T 2
F 3	6 36 59	10°21'42	23°46	15°18	7°37	2°28	27°58	28°14	20°22	22°52	12°10	12° 5	11° 4	18°50	n.a.	F 3
S 4	6 40 55	11°22'37	6♓18	16° 6	8°51	2°53	28° 6	28°11	20°20	22°54	12°10	12° 1	11° 1	18°57	n.a.	S 4
S 5	6 44 52	12°23'29	18°33	16°58	10° 5	3°17	28°13	28° 8	20°17	22°57	12°11	11°57	10°58	19° 4	n.a.	S 5
M 6	6 48 49	13°24'20	0♈36	17°53	11°19	3°41	28°21	28° 5	20°15	22°59	12°12	11°55	10°55	19°10	n.a.	M 6
T 7	6 52 45	14°25'09	12°30	18°51	12°33	4° 5	28°29	28° 2	20°13	23° 1	12°13	11°D54	10°52	19°17	n.a.	T 7
W 8	6 56 42	15°25'57	24°21	19°52	13°46	4°28	28°38	28° 0	20°10	23° 3	12°14	11°54	10°48	19°24	n.a.	W 8
T 9	7 0 38	16°26'43	6♉13	20°56	15° 0	4°51	28°46	27°57	20° 8	23° 5	12°15	11°56	10°45	19°31	n.a.	T 9
F 10	7 4 35	17°27'28	18°11	22° 2	16°14	5°14	28°55	27°55	20° 6	23° 7	12°16	11°58	10°42	19°37	n.a.	F 10
S 11	7 8 31	18°28'10	0♊20	23°10	17°28	5°37	29° 3	27°53	20° 4	23° 9	12°17	11°59	10°39	19°44	n.a.	S 11
S 12	7 12 28	19°28'52	12°45	24°20	18°42	5°59	29°12	27°51	20° 1	23°12	12°17	12°R 0	10°36	19°51	n.a.	S 12
M13	7 16 24	20°29'31	25°28	25°32	19°56	6°21	29°21	27°49	19°59	23°14	12°18	11°59	10°33	19°57	n.a.	M13
T 14	7 20 21	21°30'09	8♋30	26°45	21° 9	6°42	29°30	27°47	19°57	23°16	12°19	11°56	10°29	20° 4	n.a.	T 14
W15	7 24 18	22°30'45	21°52	28° 1	22°23	7° 4	29°39	27°45	19°55	23°18	12°20	11°51	10°26	20°11	n.a.	W15
T 16	7 28 14	23°31'19	5♌33	29°18	23°37	7°24	29°49	27°43	19°53	23°20	12°21	11°45	10°23	20°17	n.a.	T 16
F 17	7 32 11	24°31'52	19°28	0♉36	24°51	7°45	29°58	27°42	19°51	23°22	12°22	11°38	10°20	20°24	n.a.	F 17
S 18	7 36 7	25°32'23	3♍35	1°56	26° 5	8° 5	0♈ 8	27°40	19°49	23°24	12°23	11°31	10°17	20°31	n.a.	S 18
S 19	7 40 4	26°32'53	17°48	3°17	27°19	8°25	0°18	27°39	19°47	23°26	12°25	11°24	10°13	20°37	n.a.	S 19
M20	7 44 0	27°33'21	2♎ 3	4°39	28°33	8°44	0°27	27°37	19°45	23°28	12°26	11°20	10°10	20°44	n.a.	M20
T 21	7 47 57	28°33'48	16°17	6° 3	29°47	9° 4	0°37	27°36	19°43	23°30	12°27	11°17	10° 7	20°51	n.a.	T 21
W22	7 51 53	29°34'13	0♏26	7°28	1♉ 1	9°22	0°47	27°35	19°41	23°32	12°28	11°D16	10° 4	20°58	n.a.	W22
T 23	7 55 50	0♒34'37	14°30	8°54	2°15	9°40	0°58	27°34	19°40	23°34	12°29	11°17	10° 1	21° 4	n.a.	T 23
F 24	7 59 47	1°35'00	28°28	10°21	3°29	9°58	1° 8	27°33	19°38	23°35	12°30	11°18	9°58	21°11	n.a.	F 24
S 25	8 3 43	2°35'21	12♐18	11°49	4°42	10°16	1°18	27°33	19°36	23°37	12°31	11°R19	9°54	21°18	n.a.	S 25
S 26	8 7 40	3°35'41	26° 1	13°18	5°56	10°33	1°29	27°32	19°34	23°39	12°32	11°18	9°51	21°24	n.a.	S 26
M27	8 11 36	4°35'58	9♉34	14°49	7°10	10°49	1°39	27°31	19°33	23°41	12°34	11°14	9°48	21°31	n.a.	M27
T 28	8 15 33	5°36'14	22°57	16°20	8°24	11° 5	1°50	27°31	19°31	23°43	12°35	11° 8	9°45	21°38	n.a.	T 28
W29	8 19 29	6°36'29	6♒ 7	17°53	9°38	11°21	2° 1	27°31	19°30	23°45	12°36	11° 0	9°42	21°44	n.a.	W29
T 30	8 23 26	7°36'41	19° 3	19°27	10°52	11°36	2°12	27°31	19°28	23°46	12°37	10°50	9°39	21°51	n.a.	T 30
F 31	8 27 22	8♒36'51	1♓45	21♉ 1	12♉ 6	11♎51	2♈23	27°D31	19♊27	23♐48	12♓38	10♐39	9♐35	21♈58	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	23s27	17s11	3n44	20s36	2n 9	20s13	1n13	1n30	2n22	2s 7	1s19	18n33	1s30	23n37	0n15	22s41	0n50	22s37	16s55	22s31	22s22	11n 9			n.a.
T 2	23 23	13 23	4 28	20 51	1 59	20 28	1 10	1 21	2 22	2 4	1 18	18 32	1 30	23 37	0 15	22 41	0 50	22 36	16 55	22 31	22 22	11 11			n.a.
F 3	23 18	9 4	4 57	21 6	1 49	20 43	1 7	1 11	2 23	2 1	1 18	18 32	1 30	23 37	0 15	22 41	0 50	22 36	16 55	22 30	22 21	11 13			n.a.
S 4	23 13	4 29	5 11	21 21	1 38	20 58	1 5	1 2	2 24	1 57	1 18	18 31	1 30	23 36	0 15	22 41	0 50	22 35	16 54	22 29	22 21	11 15			n.a.
S 5	23 8	0n11	5 11	21 36	1 28	21 12	1 2	0 53	2 24	1 54	1 18	18 31	1 29	23 36	0 15	22 41	0 50	22 35	16 54	22 29	22 21	11 17			n.a.
M 6	23 2	4 46	4 57	21 52	1 18	21 25	0 59	0 44	2 25	1 50	1 17	18 31	1 29	23 36	0 15	22 41	0 50	22 34	16 54	22 28	22 20	11 19			n.a.
T 7	22 55	9 7	4 30	22 7	1 8	21 38	0 56	0 35	2 26	1 47	1 17	18 30	1 29	23 36	0 15	22 42	0 50	22 33	16 54	22 28	22 20	11 21			n.a.
W 8	22 48	13 7	3 51	22 21	0 58	21 50	0 53	0 26	2 27	1 43	1 17	18 30	1 29	23 36	0 15	22 42	0 50	22 33	16 53	22 28	22 19	11 23			n.a.
T 9	22 41	16 37	3 3	22 36	0 48	22 1	0 51	0 18	2 27	1 40	1 17	18 29	1 29	23 36	0 15	22 42	0 50	22 32	16 53	22 29	22 19	11 26			n.a.
F 10	22 33	19 28	2 6	22 50	0 39	22 12	0 48	0 9	2 28	1 36	1 16	18 29	1 28	23 35	0 15	22 42	0 50	22 31	16 53	22 29	22 18	11 28			n.a.
S 11	22 25	21 29	1 3	23 3	0 29	22 22	0 45	0 1	2 29	1 32	1 16	18 29	1 28	23 35	0 15	22 42	0 50	22 31	16 52	22 29	22 18	11 30			n.a.
S 12	22 17	22 31	0s 4	23 15	0 20	22 32	0 42	0s 7	2 29	1 29	1 16	18 29	1 28	23 35	0 15	22 42	0 50	22 30	16 52	22 29	22 17	11 32			n.a.
M13	22 8	22 25	1 13	23 27	0 11	22 41	0 39	0 15	2 30	1 25	1 15	18 28	1 28	23 35	0 15	22 42	0 50	22 30	16 52	22 29	22 17	11 34			n.a.
T 14	21 58	21 7	2 19	23 38	0 2	22 49	0 36	0 23	2 31	1 21	1 15	18 28	1 27	23 35	0 15	22 42	0 50	22 29	16 52	22 29	22 16	11 36			n.a.
W15	21 48	18 38	3 19	23 48	0s 6	22 56	0 33	0 31	2 31	1 17	1 15	18 28	1 27	23 35	0 15	22 42	0 50	22 28	16 51	22 28	22 16	11 38			n.a.
T 16	21 38	15 4	4 10	23 57	0 15	23 3	0 30	0 39	2 32	1 13	1 15	18 28	1 27	23 34	0 15	22 43	0 50	22 28	16 51	22 27	22 16	11 40			n.a.
F 17	21 28	10 37	4 46	24 6	0 23	23 9	0 27	0 46	2 33	1 9	1 14	18 28	1 27	23 34	0 15	22 43	0 50	22 27	16 51	22 26	22 15	11 42			n.a.
S 18	21 17	5 34	5 6	24 13	0 31	23 15	0 24	0 54	2 33	1 5	1 14	18 28	1 27	23 34	0 15	22 43	0 50	22 26	16 50	22 25	22 15	11 44			n.a.
S 19	21 5	0 11	5 7	24 19	0 39	23 20	0 22	1 1	2 34	1 1	1 14	18 28	1 26	23 34	0 15	22 43	0 50	22 26	16 50	22 24	22 14	11 46			n.a.
M20	20 53	5s14	4 49	24 24	0 46	23 24	0 19	1 8	2 35	0 56	1 14	18 27	1 26	23 34	0 15	22 43	0 50	22 25	16 50	22 24	22 14	11 48			n.a.
T 21	20 41	10 21	4 13	24 27	0 53	23 27	0 16	1 15	2 35	0 52	1 13	18 27	1 26	23 34	0 15	22 43	0 50	22 24	16 50	22 23	22 13	11 50			n.a.
W22	20 28	14 54	3 22	24 30	1 0	23 30	0 13	1 22	2 36	0 48	1 13	18 27	1 26	23 34	0 15	22 43	0 50	22 24	16 49	22 23	22 13	11 52			n.a.
T 23	20 15	18 35	2 19	24 31	1 6	23 32	0 10	1 29	2 37	0 44	1 13	18 27	1 25	23 33	0 15	22 43	0 50	22 23	16 49	22 23	22 12	11 54			n.a.
F 24	20 2	21 10	1 9	24 31	1 13	23 33	0 7	1 35	2 37	0 39	1 13	18 27	1 25	23 33	0 15	22 43	0 50	22 22	16 49	22 23	22 12	11 56			n.a.
S 25	19 48	22 26	0n 5	24 29	1 19	23 33	0 4	1 41	2 38	0 35	1 13	18 28	1 25	23 33	0 15	22 43	0 50	22 22	16 49	22 23	22 11	11 58			n.a.
S 26	19 34	22 21	1 18	24 26	1 24	23 33	0 1	1 47	2 39	0 30	1 12	18 28	1 25	23 33	0 15	22 43	0 50	22 21	16 48	22 23	22 11	12 0			n.a.
M27	19 20	20 56	2 26	24 22	1 30	23 32	0s 1	1 53	2 39	0 26	1 12	18 28	1 24	23 33	0 15	22 44	0 50	22 20	16 48	22 23	22 10	12 2			n.a.
T 28	19 5	18 23	3 24	24 16	1 35	23 31	0 4	1 59	2 40	0 22	1 12	18 28	1 24	23 33	0 15	22 44	0 50	22 20	16 48	22 22	22 10	12 4			n.a.
W29	18 50	14 55	4 10	24 8	1 39	23 28	0 7	2 5	2 41	0 17	1 12	18 28	1 24	23 33	0 15	22 44	0 50	22 19	16 48	22 21	22 9	12 6			n.a.
T 30	18 35	10 48	4 43	24 0	1 44	23 25	0 10	2 10	2 41	0 12	1 11	18 28	1 24	23 32	0 15	22 44	0 50	22 18	16 48	22 19	22 9	12 8			n.a.
F 31	18s19	6s18	5n 1	23s49	1s48	23s22	0s12	2s15	2n42	0s 8	1s11	18n29	1s23	23n32	0n15	22s44	0n50	22s18	16s47	22s18	22s 8	12n10			n.a.

Julian Day Number = 1667366.5, Delta T = 03h22m26s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'37, Lahiri = - 5°59'36 Julian Calendar 1 Jan. 148 BCE == Greg. Calendar 29 Dec. 149 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

FEBRUARY 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 31 19	9♒36'59	14♓11	22♑37	13♑20	12♎ 5	2♈34	27♉31	19°R25	23♐50	12♓40	10°R28	9♐32	22♈ 4	n.a.	S 1
S 2	8 35 16	10°37'05	26°24	24°14	14°34	12°18	2°45	27°31	19♊24	23°52	12°41	10♐19	9°29	22°11	n.a.	S 2
M 3	8 39 12	11°37'09	8♈26	25°52	15°48	12°32	2°57	27°31	19°23	23°53	12°42	10°11	9°26	22°18	n.a.	M 3
T 4	8 43 9	12°37'10	20°19	27°31	17° 2	12°44	3° 8	27°32	19°21	23°55	12°43	10° 6	9°23	22°24	n.a.	T 4
W 5	8 47 5	13°37'10	2♉ 9	29°11	18°16	12°56	3°20	27°32	19°20	23°57	12°45	10° 3	9°19	22°31	n.a.	W 5
T 6	8 51 2	14°37'07	14° 0	0♒52	19°30	13° 8	3°31	27°33	19°19	23°58	12°46	10°D 2	9°16	22°38	n.a.	T 6
F 7	8 54 58	15°37'02	25°57	2°34	20°44	13°19	3°43	27°33	19°18	24° 0	12°47	10° 3	9°13	22°45	n.a.	F 7
S 8	8 58 55	16°36'54	8♊ 5	4°17	21°58	13°29	3°55	27°34	19°17	24° 1	12°49	10°R 3	9°10	22°51	n.a.	S 8
S 9	9 2 51	17°36'45	20°31	6° 2	23°12	13°39	4° 6	27°35	19°16	24° 3	12°50	10° 3	9° 7	22°58	n.a.	S 9
M10	9 6 48	18°36'32	3♋18	7°48	24°26	13°48	4°18	27°36	19°15	24° 5	12°51	10° 0	9° 4	23° 5	n.a.	M10
T 11	9 10 45	19°36'18	16°29	9°35	25°40	13°57	4°30	27°38	19°14	24° 6	12°53	9°56	9° 0	23°11	n.a.	T 11
W12	9 14 41	20°36'02	0♌ 6	11°23	26°54	14° 5	4°43	27°39	19°13	24° 7	12°54	9°48	8°57	23°18	n.a.	W12
T 13	9 18 38	21°35'43	14° 7	13°12	28° 7	14°12	4°55	27°40	19°12	24° 9	12°55	9°38	8°54	23°25	n.a.	T 13
F 14	9 22 34	22°35'22	28°27	15° 2	29°21	14°19	5° 7	27°42	19°11	24°10	12°57	9°27	8°51	23°31	n.a.	F 14
S 15	9 26 31	23°34'59	13♍ 2	16°54	0♒35	14°25	5°19	27°43	19°11	24°12	12°58	9°16	8°48	23°38	n.a.	S 15
S 16	9 30 27	24°34'33	27°44	18°47	1°49	14°31	5°32	27°45	19°10	24°13	13° 0	9° 6	8°44	23°45	n.a.	S 16
M17	9 34 24	25°34'06	12♎24	20°41	3° 3	14°36	5°44	27°47	19° 9	24°14	13° 1	8°58	8°41	23°51	n.a.	M17
T 18	9 38 20	26°33'37	26°56	22°36	4°17	14°40	5°57	27°49	19° 9	24°16	13° 2	8°53	8°38	23°58	n.a.	T 18
W19	9 42 17	27°33'07	11♏16	24°32	5°31	14°43	6° 9	27°51	19° 8	24°17	13° 4	8°50	8°35	24° 5	n.a.	W19
T 20	9 46 14	28°32'34	25°22	26°30	6°45	14°46	6°22	27°53	19° 8	24°18	13° 5	8°D49	8°32	24°11	n.a.	T 20
F 21	9 50 10	29°32'00	9♐13	28°28	7°59	14°48	6°35	27°56	19° 7	24°19	13° 7	8°R49	8°29	24°18	n.a.	F 21
S 22	9 54 7	0♓31'24	22°49	0♓28	9°13	14°50	6°47	27°58	19° 7	24°21	13° 8	8°49	8°25	24°25	n.a.	S 22
S 23	9 58 3	1°30'46	6♑12	2°28	10°27	14°R50	7° 0	28° 0	19° 7	24°22	13° 9	8°47	8°22	24°32	n.a.	S 23
M24	10 2 0	2°30'06	19°23	4°29	11°41	14°50	7°13	28° 3	19° 6	24°23	13°11	8°42	8°19	24°38	n.a.	M24
T 25	10 5 56	3°29'24	2♒23	6°31	12°54	14°49	7°26	28° 6	19° 6	24°24	13°12	8°34	8°16	24°45	n.a.	T 25
W26	10 9 53	4°28'40	15°12	8°33	14° 8	14°48	7°39	28° 9	19° 6	24°25	13°14	8°23	8°13	24°52	n.a.	W26
T 27	10 13 49	5°27'54	27°50	10°36	15°22	14°45	7°52	28°11	19° 6	24°26	13°15	8°10	8°10	24°58	n.a.	T 27
F 28	10 17 46	6♓27'06	10♓17	12♓39	16♒36	14♎42	8♈ 5	28♉15	19°D 6	24♐27	13♓17	7♐56	8♐ 6	25♈ 5	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	18s 3	1s38	5n 4	23s37	1s51	23s17	0s15	2s20	2n43	0s 3	1s11	18n29	1s23	23n32	0n15	22s44	0n50	22s17	16s47	22s16	22s 8	12n12		n.a.	S 1
S 2	17 46	3n 1	4 53	23 23	1 54	23 12	0 18	2 25	2 43	0n 2	1 11	18 29	1 23	23 32	0 15	22 44	0 50	22 16	16 47	22 15	22 8	12 14		n.a.	S 2
M 3	17 30	7 29	4 29	23 8	1 57	23 6	0 20	2 30	2 44	0 6	1 11	18 29	1 23	23 32	0 15	22 44	0 50	22 16	16 47	22 14	22 7	12 16		n.a.	M 3
T 4	17 13	11 37	3 53	22 51	2 0	23 0	0 23	2 34	2 44	0 11	1 10	18 30	1 22	23 32	0 15	22 44	0 50	22 15	16 47	22 13	22 7	12 18		n.a.	T 4
W 5	16 56	15 17	3 8	22 33	2 2	22 52	0 26	2 38	2 45	0 16	1 10	18 30	1 22	23 32	0 15	22 44	0 50	22 14	16 46	22 13	22 6	12 20		n.a.	W 5
T 6	16 38	18 21	2 14	22 12	2 4	22 45	0 28	2 42	2 45	0 21	1 10	18 30	1 22	23 32	0 15	22 44	0 50	22 14	16 46	22 13	22 6	12 22		n.a.	T 6
F 7	16 20	20 40	1 15	21 50	2 5	22 36	0 31	2 46	2 46	0 26	1 10	18 31	1 22	23 32	0 15	22 44	0 50	22 13	16 46	22 13	22 5	12 24		n.a.	F 7
S 8	16 2	22 5	0 10	21 26	2 6	22 27	0 33	2 50	2 46	0 31	1 10	18 31	1 21	23 32	0 15	22 44	0 50	22 12	16 46	22 13	22 5	12 26		n.a.	S 8
S 9	15 44	22 27	0s55	21 1	2 6	22 17	0 36	2 53	2 47	0 35	1 9	18 32	1 21	23 31	0 15	22 44	0 50	22 12	16 46	22 13	22 4	12 28		n.a.	S 9
M10	15 25	21 40	2 0	20 34	2 6	22 6	0 38	2 56	2 47	0 40	1 9	18 32	1 21	23 31	0 15	22 44	0 50	22 11	16 46	22 12	22 4	12 30		n.a.	M10
T 11	15 6	19 41	3 1	20 5	2 6	21 55	0 40	2 59	2 48	0 45	1 9	18 33	1 21	23 31	0 15	22 45	0 50	22 10	16 46	22 12	22 3	12 32		n.a.	T 11
W12	14 47	16 34	3 53	19 34	2 5	21 43	0 43	3 2	2 48	0 50	1 9	18 33	1 20	23 31	0 15	22 45	0 50	22 10	16 45	22 10	22 3	12 34		n.a.	W12
T 13	14 28	12 26	4 32	19 1	2 3	21 30	0 45	3 4	2 49	0 55	1 9	18 34	1 20	23 31	0 15	22 45	0 50	22 9	16 45	22 9	22 2	12 36		n.a.	T 13
F 14	14 8	7 31	4 56	18 26	2 1	21 17	0 47	3 7	2 49	1 1	1 8	18 34	1 20	23 31	0 15	22 45	0 50	22 8	16 45	22 7	22 2	12 38		n.a.	F 14
S 15	13 49	2 7	5 1	17 50	1 59	21 3	0 49	3 9	2 50	1 6	1 8	18 35	1 20	23 31	0 15	22 45	0 50	22 8	16 45	22 6	22 1	12 40		n.a.	S 15
S 16	13 29	3s27	4 46	17 12	1 56	20 49	0 51	3 11	2 50	1 11	1 8	18 36	1 20	23 31	0 15	22 45	0 50	22 7	16 45	22 4	22 1	12 42		n.a.	S 16
M17	13 9	8 49	4 12	16 32	1 52	20 34	0 53	3 12	2 50	1 16	1 8	18 36	1 19	23 31	0 15	22 45	0 50	22 6	16 45	22 3	22 0	12 44		n.a.	M17
T 18	12 48	13 38	3 22	15 51	1 48	20 18	0 55	3 14	2 51	1 21	1 8	18 37	1 19	23 31	0 15	22 45	0 50	22 6	16 45	22 2	22 0	12 46		n.a.	T 18
W19	12 28	17 36	2 20	15 7	1 44	20 2	0 57	3 15	2 51	1 26	1 8	18 38	1 19	23 31	0 15	22 45	0 50	22 5	16 45	22 2	21 59	12 48		n.a.	W19
T 20	12 7	20 28	1 11	14 22	1 39	19 45	0 59	3 15	2 51	1 31	1 7	18 38	1 19	23 31	0 15	22 45	0 50	22 4	16 44	22 1	21 59	12 49		n.a.	T 20
F 21	11 46	22 3	0n 2	13 35	1 33	19 28	1 1	3 16	2 51	1 37	1 7	18 39	1 18	23 31	0 15	22 45	0 50	22 4	16 44	22 1	21 58	12 51		n.a.	F 21
S 22	11 25	22 18	1 13	12 47	1 26	19 10	1 3	3 16	2 52	1 42	1 7	18 40	1 18	23 31	0 15	22 45	0 50	22 3	16 44	22 1	21 58	12 53		n.a.	S 22
S 23	11 3	21 15	2 19	11 57	1 20	18 52	1 5	3 17	2 52	1 47	1 7	18 41	1 18	23 31	0 15	22 45	0 50	22 2	16 44	22 1	21 57	12 55		n.a.	S 23
M24	10 42	19 3	3 17	11 5	1 12	18 33	1 6	3 16	2 52	1 52	1 7	18 41	1 18	23 31	0 15	22 45	0 50	22 2	16 44	22 0	21 57	12 57		n.a.	M24
T 25	10 20	15 55	4 3	10 13	1 4	18 13	1 8	3 16	2 52	1 58	1 7	18 42	1 17	23 31	0 15	22 45	0 50	22 1	16 44	21 59	21 56	12 59		n.a.	T 25
W26	9 59	12 4	4 36	9 19	0 55	17 53	1 10	3 15	2 52	2 3	1 7	18 43	1 17	23 31	0 15	22 45	0 50	22 1	16 44	21 57	21 56	13 1		n.a.	W26
T 27	9 37	7 45	4 55	8 23	0 46	17 33	1 11	3 14	2 52	2 8	1 6	18 44	1 17	23 31	0 15	22 45	0 50	22 0	16 44	21 55	21 55	13 3		n.a.	T 27
F 28	9s15	3s11	4n59	7s27	0s37	17s12	1s13	3s13	2n52	2n14	1s 6	18n45	1s17	23n31	0n15	22s45	0n50	21s59	16s44	21s53	21s55	13n 5		n.a.	F 28

Julian Day Number = 1667397.5, Delta T = 03h22m25s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'33, Lahiri = - 5°59'32 Julian Calendar 1 Feb. 148 BCE == Greg. Calendar 29 Jan. 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

MARCH 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 21 42	7♓26'15	22♓33	14♓41	17♒50	14°R38	8♈18	28♉18	19♊ 6	24♐28	13♓18	7°R42	8♐ 3	25♈12	n.a.	S 1
S 2	10 25 39	8°25'23	4♈39	16°44	19° 4	14♎33	8°32	28°21	19° 6	24°29	13°19	7♐29	8° 0	25°18	n.a.	S 2
M 3	10 29 36	9°24'28	16°36	18°45	20°18	14°28	8°45	28°24	19° 6	24°30	13°21	7°19	7°57	25°25	n.a.	M 3
T 4	10 33 32	10°23'31	28°27	20°45	21°32	14°22	8°58	28°28	19° 6	24°31	13°22	7°11	7°54	25°32	n.a.	T 4
W 5	10 37 29	11°22'31	10♉15	22°44	22°46	14°15	9°12	28°31	19° 7	24°32	13°24	7° 7	7°50	25°38	n.a.	W 5
T 6	10 41 25	12°21'30	22° 4	24°42	23°59	14° 7	9°25	28°35	19° 7	24°32	13°25	7° 4	7°47	25°45	n.a.	T 6
F 7	10 45 22	13°20'25	3♊59	26°37	25°13	13°58	9°38	28°38	19° 7	24°33	13°27	7°D 4	7°44	25°52	n.a.	F 7
S 8	10 49 18	14°19'19	16° 6	28°29	26°27	13°49	9°52	28°42	19° 8	24°34	13°28	7°R 4	7°41	25°58	n.a.	S 8
S 9	10 53 15	15°18'10	28°29	0♈19	27°41	13°39	10° 6	28°46	19° 8	24°35	13°30	7° 3	7°38	26° 5	n.a.	S 9
M10	10 57 11	16°16'59	11♋14	2° 5	28°55	13°28	10°19	28°50	19° 8	24°35	13°31	7° 1	7°35	26°12	n.a.	M10
T 11	11 1 8	17°15'46	24°25	3°48	0♓ 9	13°17	10°33	28°54	19° 9	24°36	13°33	6°57	7°31	26°18	n.a.	T 11
W12	11 5 5	18°14'30	8♌ 5	5°27	1°22	13° 5	10°46	28°58	19°10	24°37	13°34	6°50	7°28	26°25	n.a.	W12
T 13	11 9 1	19°13'12	22°14	7° 1	2°36	12°52	11° 0	29° 2	19°10	24°37	13°35	6°41	7°25	26°32	n.a.	T 13
F 14	11 12 58	20°11'51	6♍48	8°31	3°50	12°38	11°14	29° 7	19°11	24°38	13°37	6°30	7°22	26°38	n.a.	F 14
S 15	11 16 54	21°10'29	21°41	9°57	5° 4	12°24	11°28	29°11	19°12	24°38	13°38	6°19	7°19	26°45	n.a.	S 15
S 16	11 20 51	22° 9'04	6♎44	11°17	6°18	12° 9	11°41	29°16	19°13	24°39	13°40	6° 9	7°16	26°52	n.a.	S 16
M17	11 24 47	23° 7'37	21°47	12°33	7°31	11°53	11°55	29°20	19°13	24°39	13°41	6° 1	7°12	26°58	n.a.	M17
T 18	11 28 44	24° 6'09	6♏42	13°43	8°45	11°37	12° 9	29°25	19°14	24°40	13°43	5°56	7° 9	27° 5	n.a.	T 18
W19	11 32 40	25° 4'39	21°20	14°48	9°59	11°20	12°23	29°30	19°15	24°40	13°44	5°53	7° 6	27°12	n.a.	W19
T 20	11 36 37	26° 3'07	5♐39	15°48	11°13	11° 2	12°37	29°34	19°16	24°41	13°45	5°D52	7° 3	27°19	n.a.	T 20
F 21	11 40 33	27° 1'33	19°35	16°42	12°26	10°44	12°51	29°39	19°17	24°41	13°47	5°53	7° 0	27°25	n.a.	F 21
S 22	11 44 30	27°59'58	3♑11	17°30	13°40	10°26	13° 5	29°44	19°19	24°41	13°48	5°R53	6°56	27°32	n.a.	S 22
S 23	11 48 27	28°58'22	16°27	18°13	14°54	10° 7	13°19	29°49	19°20	24°41	13°50	5°51	6°53	27°39	n.a.	S 23
M24	11 52 23	29°56'43	29°26	18°50	16° 8	9°47	13°33	29°55	19°21	24°42	13°51	5°48	6°50	27°45	n.a.	M24
T 25	11 56 20	0♈55'03	12♒10	19°21	17°22	9°27	13°47	29°59	19°22	24°42	13°53	5°42	6°47	27°52	n.a.	T 25
W26	12 0 16	1°53'21	24°43	19°46	18°35	9° 7	14° 1	0♊ 5	19°24	24°42	13°54	5°33	6°44	27°59	n.a.	W26
T 27	12 4 13	2°51'37	7♓ 4	20° 6	19°49	8°46	14°15	0°11	19°25	24°42	13°55	5°23	6°41	28° 5	n.a.	T 27
F 28	12 8 9	3°49'52	19°17	20°19	21° 3	8°25	14°29	0°16	19°26	24°42	13°57	5°11	6°37	28°12	n.a.	F 28
S 29	12 12 6	4°48'05	1♈21	20°28	22°17	8° 4	14°43	0°21	19°28	24°42	13°58	5° 0	6°34	28°19	n.a.	S 29
S 30	12 16 2	5°46'15	13°19	20°R30	23°30	7°42	14°57	0°27	19°29	24°42	13°59	4°49	6°31	28°25	n.a.	S 30
M31	12 19 59	6♈44'25	25♈11	20♈27	24♓44	7♎20	15♈11	0♊33	19♊31	24°R42	14♓ 1	4♐41	6♐28	28♈32	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s53	1n26	4n50	6s30	0s27	16s50	1s14	3s12	2n52	2n19	1s 6	18n46	1s16	23n31	0n15	22s45	0n50	21s59	16s44	21s51	21s54	13n 7		n.a.
S 2	8 30	5 57	4 27	5 33	0 16	16 28	1 15	3 10	2 52	2 25	1 6	18 47	1 16	23 31	0 15	22 45	0 51	21 58	16 44	21 49	21 54	13 9		n.a.
M 3	8 8	10 11	3 53	4 35	0 5	16 6	1 17	3 8	2 52	2 30	1 6	18 48	1 16	23 31	0 15	22 45	0 51	21 57	16 44	21 47	21 53	13 10		n.a.
T 4	7 45	13 59	3 9	3 37	0n 6	15 43	1 18	3 6	2 51	2 35	1 6	18 49	1 16	23 31	0 15	22 45	0 51	21 57	16 44	21 46	21 52	13 12		n.a.
W 5	7 23	17 13	2 17	2 39	0 18	15 20	1 19	3 3	2 51	2 41	1 6	18 50	1 16	23 31	0 15	22 45	0 51	21 56	16 44	21 45	21 52	13 14		n.a.
T 6	7 0	19 45	1 19	1 41	0 29	14 56	1 20	3 1	2 51	2 46	1 5	18 51	1 15	23 31	0 15	22 45	0 51	21 56	16 44	21 44	21 51	13 16		n.a.
F 7	6 37	21 27	0 16	0 44	0 41	14 32	1 21	2 58	2 50	2 52	1 5	18 52	1 15	23 31	0 15	22 45	0 51	21 55	16 44	21 44	21 51	13 18		n.a.
S 8	6 14	22 11	0s48	0n12	0 53	14 7	1 22	2 55	2 50	2 57	1 5	18 53	1 15	23 31	0 15	22 45	0 51	21 55	16 44	21 44	21 50	13 20		n.a.
S 9	5 51	21 51	1 51	1 7	1 5	13 43	1 23	2 51	2 49	3 3	1 5	18 54	1 15	23 31	0 15	22 45	0 51	21 54	16 44	21 44	21 50	13 22		n.a.
M10	5 28	20 24	2 50	2 0	1 17	13 17	1 24	2 47	2 49	3 8	1 5	18 55	1 15	23 31	0 15	22 45	0 51	21 53	16 44	21 44	21 49	13 24		n.a.
T 11	5 5	17 49	3 43	2 52	1 28	12 52	1 25	2 44	2 48	3 14	1 5	18 56	1 14	23 31	0 15	22 45	0 51	21 53	16 44	21 43	21 49	13 25		n.a.
W12	4 42	14 11	4 25	3 42	1 39	12 26	1 25	2 39	2 47	3 19	1 5	18 57	1 14	23 31	0 15	22 45	0 51	21 52	16 44	21 42	21 48	13 27		n.a.
T 13	4 19	9 39	4 52	4 30	1 50	12 0	1 26	2 35	2 46	3 25	1 5	18 58	1 14	23 31	0 15	22 45	0 51	21 52	16 44	21 40	21 48	13 29		n.a.
F 14	3 56	4 27	5 1	5 16	2 1	11 33	1 26	2 30	2 46	3 30	1 4	18 59	1 14	23 31	0 15	22 45	0 51	21 51	16 44	21 38	21 47	13 31		n.a.
S 15	3 32	1s 7	4 51	5 59	2 10	11 6	1 27	2 26	2 45	3 36	1 4	19 1	1 13	23 31	0 15	22 45	0 51	21 51	16 44	21 37	21 47	13 33		n.a.
S 16	3 9	6 40	4 20	6 39	2 20	10 39	1 27	2 21	2 44	3 41	1 4	19 2	1 13	23 31	0 15	22 45	0 51	21 50	16 44	21 35	21 46	13 35		n.a.
M17	2 46	11 50	3 31	7 17	2 28	10 12	1 28	2 16	2 43	3 47	1 4	19 3	1 13	23 31	0 15	22 45	0 51	21 50	16 44	21 33	21 46	13 36		n.a.
T 18	2 22	16 14	2 28	7 52	2 36	9 44	1 28	2 10	2 41	3 53	1 4	19 4	1 13	23 31	0 15	22 45	0 51	21 49	16 44	21 32	21 45	13 38		n.a.
W19	1 59	19 32	1 16	8 24	2 43	9 16	1 28	2 5	2 40	3 58	1 4	19 5	1 13	23 31	0 15	22 45	0 51	21 49	16 44	21 32	21 45	13 40		n.a.
T 20	1 35	21 31	0 1	8 53	2 49	8 48	1 28	1 59	2 39	4 4	1 4	19 7	1 12	23 31	0 15	22 45	0 51	21 48	16 44	21 32	21 44	13 42		n.a.
F 21	1 12	22 6	1n12	9 19	2 54	8 20	1 29	1 53	2 38	4 9	1 4	19 8	1 12	23 31	0 15	22 45	0 51	21 48	16 44	21 32	21 44	13 44		n.a.
S 22	0 48	21 21	2 20	9 42	2 59	7 51	1 29	1 47	2 36	4 15	1 4	19 9	1 12	23 32	0 15	22 45	0 51	21 47	16 44	21 32	21 43	13 46		n.a.
S 23	0 25	19 24	3 18	10 1	3 2	7 22	1 29	1 41	2 35	4 20	1 3	19 10	1 12	23 32	0 15	22 45	0 51	21 47	16 45	21 32	21 42	13 47		n.a.
M24	0 1	16 31	4 5	10 17	3 4	6 53	1 28	1 35	2 33	4 26	1 3	19 12	1 12	23 32	0 15	22 45	0 51	21 46	16 45	21 31	21 42	13 49		n.a.
T 25	0n22	12 53	4 38	10 30	3 5	6 24	1 28	1 28	2 31	4 31	1 3	19 13	1 11	23 32	0 15	22 45	0 51	21 46	16 45	21 30	21 41	13 51		n.a.
W26	0 46	8 45	4 58	10 40	3 5	5 55	1 28	1 22	2 29	4 37	1 3	19 14	1 11	23 32	0 15	22 45	0 51	21 45	16 45	21 28	21 41	13 53		n.a.
T 27	1 9	4 20	5 3	10 46	3 4	5 25	1 28	1 15	2 28	4 43	1 3	19 16	1 11	23 32	0 15	22 45	0 51	21 45	16 45	21 27	21 40	13 55		n.a.
F 28	1 32	0n13	4 54	10 49	3 1	4 55	1 27	1 9	2 26	4 48	1 3	19 17	1 11	23 32	0 15	22 45	0 51	21 44	16 45	21 25	21 40	13 56		n.a.
S 29	1 56	4 42	4 32	10 48	2 57	4 26	1 27	1 2	2 24	4 54	1 3	19 18	1 11	23 32	0 15	22 45	0 51	21 44	16 45	21 22	21 39	13 58		n.a.
S 30	2 19	8 58	3 58	10 45	2 52	3 56	1 26	0 56	2 22	4 59	1 3	19 20	1 11	23 32	0 15	22 45	0 51	21 43	16 45	21 21	21 39	14 0		n.a.
M31	2n42	12n52	3n14	10n37	2n45	3s26	1s26	0s49	2n19	5n 5	1s 3	19n21	1s10	23n33	0n15	22s45	0n51	21s43	16s45	21s19	21s38	14n 2		n.a.

Julian Day Number = 1667425.5, Delta T = 03h22m24s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'29, Lahiri = - 5°59'28 Julian Calendar 1 March 148 BCE == Greg. Calendar 26 Feb. 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

APRIL 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 23 56	7♈42'32	6♉59	20°R19	25♓58	6°R58	15♈25	0♊38	19♊32	24°R42	14♓ 2	4°R35	6♐25	28♈39	n.a.	T 1
W 2	12 27 52	8°40'37	18°47	20♈ 6	27°11	6♎37	15°39	0°44	19°34	24♐42	14° 4	4♐31	6°21	28°45	n.a.	W 2
T 3	12 31 49	9°38'41	0♊36	19°48	28°25	6°15	15°53	0°50	19°36	24°42	14° 5	4°D29	6°18	28°52	n.a.	T 3
F 4	12 35 45	10°36'42	12°32	19°26	29°39	5°53	16° 7	0°56	19°38	24°42	14° 6	4°30	6°15	28°59	n.a.	F 4
S 5	12 39 42	11°34'42	24°38	19° 1	0♈53	5°31	16°22	1° 2	19°39	24°42	14° 8	4°31	6°12	29° 5	n.a.	S 5
S 6	12 43 38	12°32'39	7♋ 0	18°32	2° 6	5° 9	16°36	1° 8	19°41	24°42	14° 9	4°R32	6° 9	29°12	n.a.	S 6
M 7	12 47 35	13°30'35	19°42	18° 0	3°20	4°47	16°50	1°14	19°43	24°41	14°10	4°31	6° 6	29°19	n.a.	M 7
T 8	12 51 31	14°28'29	2♌50	17°26	4°34	4°26	17° 4	1°20	19°45	24°41	14°11	4°30	6° 2	29°25	n.a.	T 8
W 9	12 55 28	15°26'21	16°25	16°50	5°47	4° 5	17°18	1°27	19°47	24°41	14°13	4°26	5°59	29°32	n.a.	W 9
T 10	12 59 25	16°24'11	0♍29	16°14	7° 1	3°44	17°32	1°33	19°49	24°41	14°14	4°21	5°56	29°39	n.a.	T 10
F 11	13 3 21	17°21'59	15° 2	15°37	8°15	3°23	17°47	1°39	19°51	24°40	14°15	4°14	5°53	29°45	n.a.	F 11
S 12	13 7 18	18°19'45	29°57	15° 1	9°28	3° 3	18° 1	1°46	19°53	24°40	14°16	4° 7	5°50	29°52	n.a.	S 12
S 13	13 11 14	19°17'29	15♎ 7	14°26	10°42	2°43	18°15	1°52	19°55	24°39	14°18	4° 1	5°47	29°59	n.a.	S 13
M14	13 15 11	20°15'13	0♏22	13°52	11°56	2°23	18°29	1°59	19°58	24°39	14°19	3°56	5°43	0♉ 5	n.a.	M14
T 15	13 19 7	21°12'54	15°32	13°20	13° 9	2° 4	18°43	2° 5	20° 0	24°39	14°20	3°53	5°40	0°12	n.a.	T 15
W16	13 23 4	22°10'35	0♐27	12°51	14°23	1°46	18°57	2°12	20° 2	24°38	14°21	3°D52	5°37	0°19	n.a.	W16
T 17	13 27 0	23° 8'14	15° 0	12°25	15°37	1°28	19°12	2°19	20° 4	24°38	14°23	3°52	5°34	0°25	n.a.	T 17
F 18	13 30 57	24° 5'52	29° 9	12° 3	16°50	1°11	19°26	2°25	20° 7	24°37	14°24	3°53	5°31	0°32	n.a.	F 18
S 19	13 34 53	25° 3'29	12♑53	11°45	18° 4	0°54	19°40	2°32	20° 9	24°36	14°25	3°54	5°27	0°39	n.a.	S 19
S 20	13 38 50	26° 1'05	26°12	11°30	19°18	0°38	19°54	2°39	20°12	24°36	14°26	3°R55	5°24	0°45	n.a.	S 20
M21	13 42 47	26°58'40	9♒ 9	11°20	20°31	0°22	20° 8	2°46	20°14	24°35	14°27	3°54	5°21	0°52	n.a.	M21
T 22	13 46 43	27°56'14	21°48	11°14	21°45	0° 7	20°22	2°53	20°17	24°34	14°28	3°52	5°18	0°59	n.a.	T 22
W23	13 50 40	28°53'47	4♓11	11°D12	22°59	29♍53	20°36	3° 0	20°19	24°34	14°29	3°48	5°15	1° 5	n.a.	W23
T 24	13 54 36	29°51'19	16°23	11°16	24°12	29°40	20°50	3° 7	20°22	24°33	14°30	3°43	5°12	1°12	n.a.	T 24
F 25	13 58 33	0♉48'49	28°25	11°23	25°26	29°27	21° 4	3°14	20°24	24°32	14°32	3°37	5° 8	1°19	n.a.	F 25
S 26	14 2 29	1°46'19	10♈21	11°35	26°40	29°15	21°18	3°21	20°27	24°31	14°33	3°32	5° 5	1°25	n.a.	S 26
S 27	14 6 26	2°43'47	22°12	11°52	27°53	29° 4	21°32	3°28	20°30	24°31	14°34	3°26	5° 2	1°32	n.a.	S 27
M28	14 10 22	3°41'15	4♉ 1	12°13	29° 7	28°53	21°46	3°35	20°32	24°30	14°35	3°22	4°59	1°39	n.a.	M28
T 29	14 14 19	4°38'41	15°49	12°38	0♉21	28°44	22° 0	3°42	20°35	24°29	14°36	3°20	4°56	1°45	n.a.	T 29
W30	14 18 16	5♉36'07	27♉39	13♈ 8	1♉34	28♍35	22♈14	3♊49	20♊38	24♐28	14♓37	3°D18	4♐52	1♉52	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 6	16n14	2n22	10n27	2n37	2s56	1s25	0s42	2n17	5n10	1s 3	19n22	1s10	23n33	0n15	22s45	0n51	21s43	16s46	21s18	21s38	14n 3		n.a.
W 2	3 29	18 56	1 23	10 14	2 28	2 25	1 25	0 36	2 15	5 16	1 3	19 24	1 10	23 33	0 15	22 45	0 51	21 42	16 46	21 17	21 37	14 5		n.a.
T 3	3 52	20 51	0 21	9 57	2 18	1 55	1 24	0 29	2 12	5 22	1 3	19 25	1 10	23 33	0 15	22 45	0 51	21 42	16 46	21 17	21 36	14 7		n.a.
F 4	4 15	21 51	0s43	9 38	2 6	1 25	1 23	0 22	2 10	5 27	1 2	19 27	1 10	23 33	0 15	22 45	0 51	21 41	16 46	21 17	21 36	14 9		n.a.
S 5	4 38	21 50	1 46	9 17	1 54	0 54	1 22	0 16	2 8	5 33	1 2	19 28	1 9	23 33	0 15	22 45	0 51	21 41	16 46	21 17	21 35	14 11		n.a.
S 6	5 1	20 46	2 46	8 53	1 40	0 24	1 21	0 10	2 5	5 38	1 2	19 29	1 9	23 33	0 15	22 45	0 51	21 41	16 46	21 17	21 35	14 12		n.a.
M 7	5 23	18 38	3 39	8 27	1 26	0n 7	1 20	0 3	2 2	5 44	1 2	19 31	1 9	23 33	0 15	22 45	0 51	21 40	16 47	21 17	21 34	14 14		n.a.
T 8	5 46	15 29	4 23	8 0	1 10	0 37	1 19	0n 3	2 0	5 49	1 2	19 32	1 9	23 34	0 15	22 45	0 51	21 40	16 47	21 17	21 34	14 16		n.a.
W 9	6 9	11 26	4 53	7 31	0 54	1 8	1 18	0 9	1 57	5 55	1 2	19 34	1 9	23 34	0 15	22 45	0 51	21 40	16 47	21 16	21 33	14 18		n.a.
T 10	6 31	6 38	5 8	7 2	0 38	1 38	1 17	0 15	1 54	6 0	1 2	19 35	1 9	23 34	0 15	22 45	0 51	21 39	16 47	21 15	21 33	14 19		n.a.
F 11	6 54	1 19	5 3	6 32	0 21	2 9	1 16	0 20	1 51	6 6	1 2	19 37	1 8	23 34	0 15	22 45	0 51	21 39	16 47	21 14	21 32	14 21		n.a.
S 12	7 16	4s13	4 38	6 2	0 4	2 39	1 15	0 26	1 49	6 11	1 2	19 38	1 8	23 34	0 15	22 45	0 51	21 39	16 47	21 13	21 31	14 23		n.a.
S 13	7 38	9 36	3 53	5 33	0s14	3 9	1 13	0 31	1 46	6 17	1 2	19 40	1 8	23 34	0 15	22 45	0 51	21 38	16 48	21 12	21 31	14 24		n.a.
M14	8 0	14 24	2 51	5 4	0 31	3 40	1 12	0 36	1 43	6 22	1 2	19 41	1 8	23 35	0 15	22 45	0 51	21 38	16 48	21 11	21 30	14 26		n.a.
T 15	8 22	18 14	1 38	4 36	0 47	4 10	1 11	0 41	1 40	6 28	1 2	19 43	1 8	23 35	0 15	22 45	0 51	21 38	16 48	21 10	21 30	14 28		n.a.
W16	8 44	20 47	0 19	4 10	1 3	4 40	1 9	0 46	1 37	6 33	1 2	19 44	1 8	23 35	0 15	22 45	0 51	21 37	16 48	21 10	21 29	14 30		n.a.
T 17	9 5	21 52	1n 0	3 45	1 19	5 10	1 8	0 51	1 34	6 39	1 2	19 45	1 7	23 35	0 15	22 45	0 51	21 37	16 49	21 10	21 29	14 31		n.a.
F 18	9 27	21 29	2 13	3 22	1 34	5 40	1 6	0 55	1 31	6 44	1 2	19 47	1 7	23 35	0 15	22 45	0 51	21 37	16 49	21 10	21 28	14 33		n.a.
S 19	9 48	19 49	3 16	3 2	1 48	6 10	1 5	0 59	1 28	6 50	1 2	19 48	1 7	23 35	0 15	22 45	0 51	21 37	16 49	21 10	21 27	14 35		n.a.
S 20	10 10	17 7	4 7	2 44	2 2	6 40	1 3	1 2	1 25	6 55	1 2	19 50	1 7	23 36	0 15	22 45	0 51	21 36	16 49	21 10	21 27	14 36		n.a.
M21	10 31	13 37	4 43	2 28	2 14	7 10	1 1	1 6	1 22	7 0	1 2	19 51	1 7	23 36	0 15	22 45	0 51	21 36	16 49	21 10	21 26	14 38		n.a.
T 22	10 52	9 36	5 5	2 15	2 26	7 39	1 0	1 9	1 19	7 6	1 2	19 53	1 7	23 36	0 15	22 45	0 51	21 36	16 50	21 10	21 26	14 40		n.a.
W23	11 12	5 15	5 11	2 5	2 37	8 8	0 58	1 12	1 16	7 11	1 1	19 54	1 7	23 36	0 15	22 45	0 51	21 36	16 50	21 9	21 25	14 42		n.a.
T 24	11 33	0 46	5 4	1 58	2 46	8 37	0 56	1 15	1 13	7 17	1 1	19 56	1 6	23 36	0 15	22 45	0 51	21 36	16 50	21 8	21 25	14 43		n.a.
F 25	11 53	3n41	4 43	1 53	2 55	9 6	0 54	1 17	1 9	7 22	1 1	19 57	1 6	23 37	0 15	22 45	0 51	21 35	16 50	21 7	21 24	14 45		n.a.
S 26	12 13	7 58	4 10	1 51	3 2	9 35	0 52	1 19	1 6	7 27	1 1	19 59	1 6	23 37	0 15	22 44	0 51	21 35	16 51	21 6	21 23	14 47		n.a.
S 27	12 33	11 55	3 26	1 51	3 9	10 4	0 50	1 21	1 3	7 33	1 1	20 0	1 6	23 37	0 15	22 44	0 51	21 35	16 51	21 5	21 23	14 48		n.a.
M28	12 53	15 24	2 34	1 54	3 14	10 32	0 48	1 22	1 0	7 38	1 1	20 2	1 6	23 37	0 15	22 44	0 51	21 35	16 51	21 4	21 22	14 50		n.a.
T 29	13 13	18 16	1 35	2 0	3 19	11 0	0 46	1 23	0 57	7 43	1 1	20 3	1 6	23 37	0 15	22 44	0 51	21 35	16 52	21 4	21 22	14 52		n.a.
W30	13n32	20n22	0n31	2n 8	3s23	11n28	0s44	1n24	0n54	7n48	1s 1	20n 5	1s 6	23n38	0n15	22s44	0n51	21s35	16s52	21s 3	21s21	14n53		n.a.

Julian Day Number = 1667456.5, Delta T = 03h22m23s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'25, Lahiri = - 5°59'24 Julian Calendar 1 Apr. 148 BCE == Greg. Calendar 29 March 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

MAY 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 22 12	6♉33'31	9♊33	13♈42	2♉48	28°R27	22♈28	3♊57	20♊41	24°R27	14♓38	3♐18	4♐49	1♉59	n.a.	T 1
F 2	14 26 9	7°30'54	21°34	14°19	4° 1	28♍20	22°42	4° 4	20°44	24♐26	14°39	3°19	4°46	2° 5	n.a.	F 2
S 3	14 30 5	8°28'16	3♋46	15° 1	5°15	28°14	22°56	4°11	20°46	24°25	14°40	3°21	4°43	2°12	n.a.	S 3
S 4	14 34 2	9°25'36	16°11	15°46	6°29	28° 8	23°10	4°19	20°49	24°24	14°40	3°22	4°40	2°19	n.a.	S 4
M 5	14 37 58	10°22'56	28°55	16°36	7°42	28° 4	23°24	4°26	20°52	24°23	14°41	3°24	4°37	2°25	n.a.	M 5
T 6	14 41 55	11°20'14	11♌59	17°29	8°56	28° 0	23°37	4°34	20°55	24°22	14°42	3°R24	4°33	2°32	n.a.	T 6
W 7	14 45 51	12°17'31	25°29	18°25	10°10	27°57	23°51	4°41	20°58	24°21	14°43	3°23	4°30	2°39	n.a.	W 7
T 8	14 49 48	13°14'47	9♍24	19°25	11°23	27°55	24° 5	4°49	21° 1	24°20	14°44	3°22	4°27	2°45	n.a.	T 8
F 9	14 53 45	14°12'02	23°45	20°28	12°37	27°54	24°19	4°56	21° 4	24°19	14°45	3°20	4°24	2°52	n.a.	F 9
S 10	14 57 41	15° 9'16	8♎29	21°35	13°51	27°D53	24°32	5° 4	21° 8	24°18	14°46	3°18	4°21	2°59	n.a.	S 10
S 11	15 1 38	16° 6'29	23°31	22°45	15° 4	27°53	24°46	5°11	21°11	24°16	14°46	3°16	4°18	3° 5	n.a.	S 11
M12	15 5 34	17° 3'41	8♏41	23°58	16°18	27°55	24°59	5°19	21°14	24°15	14°47	3°14	4°14	3°12	n.a.	M12
T 13	15 9 31	18° 0'53	23°51	25°14	17°31	27°57	25°13	5°26	21°17	24°14	14°48	3°13	4°11	3°19	n.a.	T 13
W14	15 13 27	18°58'04	8♐52	26°34	18°45	27°59	25°27	5°34	21°20	24°13	14°49	3°D13	4° 8	3°25	n.a.	W14
T 15	15 17 24	19°55'14	23°34	27°56	19°59	28° 3	25°40	5°42	21°23	24°12	14°50	3°14	4° 5	3°32	n.a.	T 15
F 16	15 21 20	20°52'24	7♑54	29°22	21°12	28° 7	25°53	5°49	21°27	24°10	14°50	3°15	4° 2	3°39	n.a.	F 16
S 17	15 25 17	21°49'34	21°47	0♉50	22°26	28°12	26° 7	5°57	21°30	24° 9	14°51	3°16	3°58	3°45	n.a.	S 17
S 18	15 29 14	22°46'43	5♒13	2°22	23°40	28°18	26°20	6° 5	21°33	24° 8	14°52	3°16	3°55	3°52	n.a.	S 18
M19	15 33 10	23°43'53	18°15	3°56	24°53	28°24	26°34	6°13	21°36	24° 6	14°52	3°R17	3°52	3°59	n.a.	M19
T 20	15 37 7	24°41'02	0♓55	5°34	26° 7	28°31	26°47	6°20	21°40	24° 5	14°53	3°17	3°49	4° 5	n.a.	T 20
W21	15 41 3	25°38'11	13°16	7°14	27°21	28°39	27° 0	6°28	21°43	24° 4	14°54	3°16	3°46	4°12	n.a.	W21
T 22	15 45 0	26°35'19	25°24	8°58	28°34	28°48	27°13	6°36	21°46	24° 2	14°54	3°16	3°43	4°19	n.a.	T 22
F 23	15 48 56	27°32'28	7♈21	10°44	29°48	28°57	27°26	6°44	21°50	24° 1	14°55	3°15	3°39	4°25	n.a.	F 23
S 24	15 52 53	28°29'36	19°12	12°33	1♊ 2	29° 7	27°39	6°51	21°53	23°59	14°55	3°14	3°36	4°32	n.a.	S 24
S 25	15 56 50	29°26'45	1♉ 1	14°25	2°15	29°18	27°52	6°59	21°57	23°58	14°56	3°14	3°33	4°39	n.a.	S 25
M26	16 0 46	0♊23'53	12°49	16°19	3°29	29°29	28° 5	7° 7	22° 0	23°57	14°56	3°13	3°30	4°45	n.a.	M26
T 27	16 4 43	1°21'01	24°40	18°16	4°43	29°41	28°18	7°15	22° 4	23°55	14°57	3°13	3°27	4°52	n.a.	T 27
W28	16 8 39	2°18'09	6♊37	20°15	5°57	29°54	28°31	7°23	22° 7	23°54	14°57	3°D13	3°24	4°59	n.a.	W28
T 29	16 12 36	3°15'17	18°40	22°16	7°10	0♎ 8	28°44	7°31	22°11	23°52	14°58	3°R13	3°20	5° 5	n.a.	T 29
F 30	16 16 32	4°12'25	0♋52	24°19	8°24	0°22	28°57	7°39	22°14	23°51	14°58	3°13	3°17	5°12	n.a.	F 30
S 31	16 20 29	5♊ 9'33	13♋16	26♉24	9♊38	0♎36	29♈ 9	7♊46	22♊18	23♐49	14♓59	3♐13	3♐14	5♉19	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	13n52	21n34	0s34	2n19	3s26	11n55	0s42	1n24	0n51	7n54	1s 1	20n 6	1s 5	23n38	0n15	22s44	0n51	21s34	16s52	21s 3	21s21	14n55			n.a.
F 2	14 11	21 48	1 39	2 32	3 27	12 22	0 40	1 25	0 48	7 59	1 1	20 8	1 5	23 38	0 15	22 44	0 51	21 34	16 52	21 4	21 20	14 57			n.a.
S 3	14 29	21 0	2 40	2 47	3 28	12 49	0 38	1 24	0 46	8 4	1 1	20 9	1 5	23 38	0 15	22 44	0 51	21 34	16 53	21 4	21 19	14 58			n.a.
S 4	14 48	19 10	3 35	3 5	3 28	13 16	0 36	1 24	0 43	8 9	1 1	20 11	1 5	23 38	0 15	22 44	0 51	21 34	16 53	21 4	21 19	15 0			n.a.
M 5	15 6	16 22	4 20	3 24	3 28	13 42	0 34	1 23	0 40	8 14	1 1	20 12	1 5	23 39	0 15	22 44	0 52	21 34	16 53	21 4	21 18	15 1			n.a.
T 6	15 24	12 41	4 54	3 46	3 26	14 8	0 32	1 22	0 37	8 20	1 1	20 14	1 5	23 39	0 15	22 44	0 52	21 34	16 54	21 4	21 18	15 3			n.a.
W 7	15 42	8 16	5 13	4 10	3 24	14 34	0 29	1 21	0 34	8 25	1 1	20 15	1 5	23 39	0 15	22 44	0 52	21 34	16 54	21 4	21 17	15 5			n.a.
T 8	16 0	3 17	5 14	4 35	3 21	14 59	0 27	1 19	0 31	8 30	1 1	20 17	1 5	23 39	0 15	22 44	0 52	21 34	16 54	21 4	21 16	15 6			n.a.
F 9	16 17	2s 1	4 56	5 3	3 17	15 24	0 25	1 17	0 28	8 35	1 1	20 18	1 4	23 39	0 15	22 44	0 52	21 34	16 54	21 4	21 16	15 8			n.a.
S 10	16 34	7 21	4 18	5 32	3 12	15 49	0 23	1 15	0 26	8 40	1 1	20 20	1 4	23 40	0 15	22 44	0 52	21 34	16 55	21 3	21 15	15 10			n.a.
S 11	16 51	12 21	3 22	6 3	3 7	16 13	0 20	1 12	0 23	8 45	1 1	20 21	1 4	23 40	0 15	22 44	0 52	21 34	16 55	21 3	21 15	15 11			n.a.
M12	17 7	16 38	2 12	6 35	3 2	16 37	0 18	1 9	0 20	8 50	1 1	20 23	1 4	23 40	0 15	22 44	0 52	21 34	16 55	21 3	21 14	15 13			n.a.
T 13	17 24	19 47	0 52	7 9	2 55	17 0	0 16	1 6	0 18	8 55	1 1	20 24	1 4	23 40	0 15	22 44	0 52	21 34	16 56	21 2	21 13	15 14			n.a.
W14	17 40	21 31	0n31	7 45	2 48	17 23	0 13	1 2	0 15	9 0	1 1	20 26	1 4	23 40	0 15	22 43	0 52	21 34	16 56	21 2	21 13	15 16			n.a.
T 15	17 55	21 43	1 50	8 22	2 41	17 46	0 11	0 59	0 13	9 5	1 1	20 27	1 4	23 41	0 15	22 43	0 52	21 34	16 56	21 2	21 12	15 18			n.a.
F 16	18 11	20 28	3 1	9 0	2 33	18 8	0 9	0 55	0 10	9 10	1 1	20 29	1 4	23 41	0 15	22 43	0 52	21 34	16 57	21 3	21 12	15 19			n.a.
S 17	18 26	18 1	3 58	9 39	2 24	18 29	0 6	0 50	0 8	9 15	1 1	20 30	1 4	23 41	0 15	22 43	0 52	21 34	16 57	21 3	21 11	15 21			n.a.
S 18	18 41	14 39	4 40	10 19	2 15	18 50	0 4	0 46	0 5	9 20	1 1	20 32	1 3	23 41	0 15	22 43	0 52	21 34	16 57	21 3	21 10	15 22			n.a.
M19	18 55	10 40	5 6	11 1	2 5	19 11	0 1	0 41	0 3	9 25	1 1	20 33	1 3	23 41	0 15	22 43	0 52	21 34	16 58	21 3	21 10	15 24			n.a.
T 20	19 9	6 20	5 17	11 43	1 56	19 31	0n 1	0 36	0 0	9 29	1 1	20 34	1 3	23 42	0 15	22 43	0 52	21 34	16 58	21 3	21 9	15 26			n.a.
W21	19 23	1 51	5 12	12 26	1 45	19 51	0 3	0 31	0s 2	9 34	1 1	20 36	1 3	23 42	0 15	22 43	0 52	21 34	16 58	21 3	21 9	15 27			n.a.
T 22	19 37	2n38	4 54	13 9	1 35	20 10	0 6	0 25	0 4	9 39	1 1	20 37	1 3	23 42	0 15	22 43	0 52	21 34	16 59	21 3	21 8	15 29			n.a.
F 23	19 50	6 58	4 23	13 53	1 24	20 28	0 8	0 19	0 7	9 44	1 1	20 39	1 3	23 42	0 15	22 43	0 52	21 34	16 59	21 3	21 7	15 30			n.a.
S 24	20 3	11 0	3 41	14 37	1 13	20 46	0 10	0 13	0 9	9 48	1 1	20 40	1 3	23 43	0 15	22 43	0 52	21 34	16 59	21 3	21 7	15 32			n.a.
S 25	20 16	14 36	2 50	15 22	1 2	21 3	0 13	0 7	0 11	9 53	1 1	20 42	1 3	23 43	0 15	22 43	0 52	21 34	17 0	21 2	21 6	15 33			n.a.
M26	20 28	17 37	1 51	16 6	0 50	21 20	0 15	0 0	0 13	9 58	1 1	20 43	1 3	23 43	0 15	22 43	0 52	21 34	17 0	21 2	21 6	15 35			n.a.
T 27	20 40	19 55	0 47	16 50	0 39	21 36	0 17	0s 7	0 15	10 2	1 1	20 44	1 3	23 43	0 15	22 43	0 52	21 34	17 0	21 2	21 5	15 37			n.a.
W28	20 51	21 21	0s19	17 34	0 27	21 52	0 20	0 14	0 18	10 7	1 1	20 46	1 2	23 43	0 15	22 43	0 52	21 35	17 1	21 2	21 4	15 38			n.a.
T 29	21 3	21 49	1 25	18 17	0 16	22 7	0 22	0 21	0 20	10 12	1 1	20 47	1 2	23 44	0 15	22 43	0 52	21 35	17 1	21 2	21 4	15 40			n.a.
F 30	21 14	21 15	2 28	18 59	0 5	22 21	0 24	0 29	0 22	10 16	1 1	20 49	1 2	23 44	0 15	22 42	0 52	21 35	17 2	21 2	21 3	15 41			n.a.
S 31	21n24	19n39	3s25	19n40	0n 6	22n35	0n27	0s36	0s24	10n21	1s 1	20n50	1s 2	23n44	0n15	22s42	0n52	21s35	17s 2	21s 2	21s 2	15n43			n.a.

Julian Day Number = 1667486.5, Delta T = 03h22m22s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'20, Lahiri = - 5°59'20 Julian Calendar 1 May 148 BCE == Greg. Calendar 28 Apr. 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

JUNE 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 25	6♊ 6'40	25♋53	28♉31	10♊51	0♎51	29♈22	7♊54	22♊21	23°R48	14♓59	3°R13	3♐11	5♉25	n.a.	S 1
M 2	16 28 22	7° 3'47	8♌45	0♊39	12° 5	1° 7	29°35	8° 2	22°25	23♐46	14°59	3♐12	3° 8	5°32	n.a.	M 2
T 3	16 32 19	8° 0'54	21°54	2°47	13°19	1°24	29°47	8°10	22°28	23°45	15° 0	3°12	3° 4	5°39	n.a.	T 3
W 4	16 36 15	8°58'01	5♍22	4°57	14°33	1°41	29°59	8°18	22°32	23°43	15° 0	3°D12	3° 1	5°45	n.a.	W 4
T 5	16 40 12	9°55'07	19°11	7° 7	15°46	1°58	0♉12	8°26	22°35	23°41	15° 0	3°12	2°58	5°52	n.a.	T 5
F 6	16 44 8	10°52'13	3♎19	9°17	17° 0	2°16	0°24	8°34	22°39	23°40	15° 1	3°12	2°55	5°59	n.a.	F 6
S 7	16 48 5	11°49'19	17°46	11°27	18°14	2°35	0°37	8°41	22°43	23°38	15° 1	3°13	2°52	6° 5	n.a.	S 7
S 8	16 52 1	12°46'25	2♏29	13°36	19°28	2°54	0°49	8°49	22°46	23°37	15° 1	3°14	2°49	6°12	n.a.	S 8
M 9	16 55 58	13°43'32	17°21	15°45	20°41	3°14	1° 1	8°57	22°50	23°35	15° 1	3°14	2°45	6°19	n.a.	M 9
T 10	16 59 54	14°40'38	2♐17	17°53	21°55	3°34	1°13	9° 5	22°53	23°34	15° 1	3°R15	2°42	6°25	n.a.	T 10
W11	17 3 51	15°37'45	17° 8	20° 0	23° 9	3°55	1°25	9°13	22°57	23°32	15° 2	3°14	2°39	6°32	n.a.	W11
T 12	17 7 48	16°34'51	1♑47	22° 6	24°23	4°16	1°37	9°21	23° 1	23°30	15° 2	3°13	2°36	6°39	n.a.	T 12
F 13	17 11 44	17°31'59	16° 7	24°10	25°36	4°37	1°48	9°28	23° 4	23°29	15° 2	3°12	2°33	6°45	n.a.	F 13
S 14	17 15 41	18°29'07	0♒ 4	26°13	26°50	4°59	2° 0	9°36	23° 8	23°27	15° 2	3°10	2°30	6°52	n.a.	S 14
S 15	17 19 37	19°26'15	13°36	28°15	28° 4	5°22	2°12	9°44	23°11	23°25	15° 2	3° 8	2°26	6°59	n.a.	S 15
M16	17 23 34	20°23'24	26°43	0♋15	29°18	5°45	2°23	9°52	23°15	23°24	15° 2	3° 6	2°23	7° 5	n.a.	M16
T 17	17 27 30	21°20'34	9♓26	2°13	0♋32	6° 8	2°35	10° 0	23°19	23°22	15° 2	3° 5	2°20	7°12	n.a.	T 17
W18	17 31 27	22°17'45	21°49	4° 9	1°45	6°32	2°46	10° 7	23°22	23°21	15°R 2	3°D 5	2°17	7°19	n.a.	W18
T 19	17 35 23	23°14'56	3♈57	6° 4	2°59	6°57	2°58	10°15	23°26	23°19	15° 2	3° 5	2°14	7°25	n.a.	T 19
F 20	17 39 20	24°12'08	15°53	7°57	4°13	7°21	3° 9	10°23	23°30	23°17	15° 2	3° 6	2°10	7°32	n.a.	F 20
S 21	17 43 17	25° 9'21	27°43	9°48	5°27	7°46	3°20	10°30	23°33	23°16	15° 2	3° 8	2° 7	7°39	n.a.	S 21
S 22	17 47 13	26° 6'36	9♉31	11°38	6°41	8°12	3°31	10°38	23°37	23°14	15° 2	3° 9	2° 4	7°45	n.a.	S 22
M23	17 51 10	27° 3'51	21°22	13°25	7°54	8°38	3°42	10°46	23°41	23°13	15° 2	3°11	2° 1	7°52	n.a.	M23
T 24	17 55 6	28° 1'06	3♊18	15°11	9° 8	9° 4	3°53	10°53	23°44	23°11	15° 2	3°R11	1°58	7°59	n.a.	T 24
W25	17 59 3	28°58'23	15°23	16°56	10°22	9°31	4° 4	11° 1	23°48	23° 9	15° 2	3°10	1°55	8° 5	n.a.	W25
T 26	18 2 59	29°55'41	27°39	18°38	11°36	9°58	4°14	11° 9	23°52	23° 8	15° 2	3° 9	1°51	8°12	n.a.	T 26
F 27	18 6 56	0♋52'59	10♋ 7	20°19	12°50	10°26	4°25	11°16	23°55	23° 6	15° 1	3° 5	1°48	8°19	n.a.	F 27
S 28	18 10 53	1°50'19	22°49	21°57	14° 4	10°53	4°35	11°24	23°59	23° 4	15° 1	3° 1	1°45	8°25	n.a.	S 28
S 29	18 14 49	2°47'39	5♌44	23°35	15°17	11°22	4°46	11°31	24° 2	23° 3	15° 1	2°57	1°42	8°32	n.a.	S 29
M30	18 18 46	3♋45'00	18♌54	25♋10	16♋31	11♎50	4♉56	11♊39	24♊ 6	23♐ 1	15♓ 1	2♐52	1♐39	8♉39	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n34	17n 4	4s13	20n20	0n17	22n48	0n29	0s44	0s26	10n25	1s 1	20n51	1s 2	23n44	0n15	22s42	0n52	21s35	17s 2	21s 2	21s 2	15n44		n.a.
M 2	21 44	13 38	4 49	20 58	0 27	23 1	0 31	0 52	0 28	10 29	1 2	20 53	1 2	23 44	0 15	22 42	0 52	21 35	17 3	21 2	21 1	15 46		n.a.
T 3	21 54	9 27	5 11	21 34	0 37	23 12	0 33	1 1	0 30	10 34	1 2	20 54	1 2	23 45	0 15	22 42	0 52	21 36	17 3	21 2	21 1	15 47		n.a.
W 4	22 3	4 44	5 17	22 8	0 47	23 24	0 36	1 9	0 31	10 38	1 2	20 55	1 2	23 45	0 15	22 42	0 52	21 36	17 3	21 2	21 0	15 49		n.a.
T 5	22 11	0s21	5 5	22 40	0 56	23 34	0 38	1 18	0 33	10 43	1 2	20 57	1 2	23 45	0 15	22 42	0 52	21 36	17 4	21 2	20 59	15 50		n.a.
F 6	22 20	5 32	4 35	23 9	1 4	23 44	0 40	1 27	0 35	10 47	1 2	20 58	1 2	23 45	0 15	22 42	0 52	21 36	17 4	21 2	20 59	15 52		n.a.
S 7	22 28	10 32	3 47	23 36	1 12	23 53	0 42	1 36	0 37	10 51	1 2	20 59	1 2	23 46	0 15	22 42	0 52	21 36	17 4	21 2	20 58	15 53		n.a.
S 8	22 35	15 1	2 43	24 0	1 19	24 1	0 44	1 45	0 39	10 55	1 2	21 1	1 2	23 46	0 15	22 42	0 52	21 37	17 5	21 2	20 58	15 55		n.a.
M 9	22 42	18 36	1 27	24 22	1 26	24 9	0 46	1 55	0 40	11 0	1 2	21 2	1 1	23 46	0 15	22 42	0 52	21 37	17 5	21 3	20 57	15 56		n.a.
T 10	22 49	20 56	0 5	24 41	1 32	24 16	0 48	2 5	0 42	11 4	1 2	21 3	1 1	23 46	0 15	22 42	0 52	21 37	17 6	21 3	20 56	15 58		n.a.
W11	22 56	21 49	1n16	24 56	1 37	24 22	0 50	2 14	0 44	11 8	1 2	21 4	1 1	23 46	0 15	22 42	0 52	21 37	17 6	21 3	20 56	15 59		n.a.
T 12	23 2	21 10	2 32	25 9	1 41	24 28	0 52	2 24	0 45	11 12	1 2	21 6	1 1	23 47	0 15	22 42	0 52	21 38	17 6	21 2	20 55	16 1		n.a.
F 13	23 7	19 9	3 36	25 20	1 45	24 32	0 54	2 35	0 47	11 16	1 2	21 7	1 1	23 47	0 15	22 41	0 52	21 38	17 7	21 2	20 54	16 2		n.a.
S 14	23 12	16 3	4 25	25 27	1 48	24 36	0 56	2 45	0 49	11 20	1 2	21 8	1 1	23 47	0 15	22 41	0 52	21 38	17 7	21 2	20 54	16 4		n.a.
S 15	23 17	12 10	4 58	25 32	1 50	24 40	0 58	2 55	0 50	11 24	1 2	21 9	1 1	23 47	0 15	22 41	0 52	21 39	17 7	21 1	20 53	16 5		n.a.
M16	23 22	7 50	5 14	25 34	1 52	24 42	1 0	3 6	0 52	11 28	1 2	21 11	1 1	23 47	0 15	22 41	0 52	21 39	17 8	21 1	20 52	16 7		n.a.
T 17	23 26	3 16	5 14	25 34	1 53	24 44	1 1	3 17	0 53	11 32	1 2	21 12	1 1	23 48	0 15	22 41	0 52	21 39	17 8	21 1	20 52	16 8		n.a.
W18	23 29	1n18	4 59	25 31	1 53	24 45	1 3	3 28	0 55	11 36	1 2	21 13	1 1	23 48	0 15	22 41	0 51	21 40	17 9	21 1	20 51	16 10		n.a.
T 19	23 32	5 44	4 32	25 26	1 52	24 46	1 5	3 39	0 56	11 40	1 2	21 14	1 1	23 48	0 15	22 41	0 51	21 40	17 9	21 1	20 51	16 11		n.a.
F 20	23 35	9 53	3 52	25 19	1 51	24 45	1 7	3 50	0 58	11 44	1 2	21 15	1 1	23 48	0 15	22 41	0 51	21 40	17 9	21 1	20 50	16 13		n.a.
S 21	23 37	13 38	3 3	25 10	1 50	24 44	1 8	4 1	0 59	11 47	1 2	21 17	1 1	23 48	0 15	22 41	0 51	21 41	17 10	21 1	20 49	16 14		n.a.
S 22	23 39	16 50	2 7	24 59	1 48	24 42	1 10	4 13	1 0	11 51	1 3	21 18	1 1	23 49	0 15	22 41	0 51	21 41	17 10	21 2	20 49	16 16		n.a.
M23	23 41	19 21	1 5	24 46	1 45	24 39	1 11	4 24	1 2	11 55	1 3	21 19	1 1	23 49	0 15	22 41	0 51	21 41	17 10	21 2	20 48	16 17		n.a.
T 24	23 42	21 3	0s 1	24 31	1 42	24 36	1 13	4 36	1 3	11 58	1 3	21 20	1 1	23 49	0 15	22 41	0 51	21 42	17 11	21 2	20 47	16 18		n.a.
W25	23 42	21 48	1 7	24 15	1 38	24 32	1 14	4 48	1 4	12 2	1 3	21 21	1 0	23 49	0 15	22 41	0 51	21 42	17 11	21 2	20 47	16 20		n.a.
T 26	23 43	21 31	2 10	23 57	1 33	24 27	1 15	5 0	1 6	12 6	1 3	21 22	1 0	23 49	0 15	22 41	0 51	21 42	17 11	21 1	20 46	16 21		n.a.
F 27	23 43	20 11	3 9	23 37	1 29	24 21	1 17	5 12	1 7	12 9	1 3	21 23	1 0	23 49	0 15	22 40	0 51	21 43	17 12	21 1	20 45	16 23		n.a.
S 28	23 42	17 49	3 59	23 16	1 24	24 15	1 18	5 24	1 8	12 13	1 3	21 24	1 0	23 50	0 15	22 40	0 51	21 43	17 12	21 0	20 45	16 24		n.a.
S 29	23 41	14 33	4 38	22 54	1 18	24 8	1 19	5 36	1 9	12 16	1 3	21 26	1 0	23 50	0 15	22 40	0 51	21 44	17 13	20 59	20 44	16 26		n.a.
M30	23n39	10n32	5s 3	22n31	1n12	24n 0	1n20	5s49	1s10	12n19	1s 3	21n27	1s 0	23n50	0n15	22s40	0n51	21s44	17s13	20s58	20s44	16n27		n.a.

Julian Day Number = 1667517.5, Delta T = 03h22m21s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'16, Lahiri = - 5°59'16 Julian Calendar 1 June 148 BCE == Greg. Calendar 29 May 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

JULY 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 22 42	4♋42'21	2♍17	26♋44	17♋45	12♎19	5♉ 6	11♊46	24♊10	23°R 0	15°R 0	2°R48	1♐36	8♉45	n.a.	T 1
W 2	18 26 39	5°39'43	15°53	28°16	18°59	12°48	5°16	11°54	24°13	22♐58	15♓ 0	2♐45	1°32	8°52	n.a.	W 2
T 3	18 30 35	6°37'06	29°42	29°46	20°13	13°18	5°26	12° 1	24°17	22°57	15° 0	2°44	1°29	8°58	n.a.	T 3
F 4	18 34 32	7°34'30	13♎44	1♏14	21°27	13°48	5°36	12° 9	24°20	22°55	15° 0	2°D44	1°26	9° 5	n.a.	F 4
S 5	18 38 28	8°31'54	27°56	2°41	22°41	14°18	5°46	12°16	24°24	22°53	14°59	2°45	1°23	9°12	n.a.	S 5
S 6	18 42 25	9°29'19	12♏19	4° 5	23°54	14°48	5°55	12°23	24°28	22°52	14°59	2°46	1°20	9°18	n.a.	S 6
M 7	18 46 22	10°26'45	26°48	5°28	25° 8	15°19	6° 5	12°31	24°31	22°50	14°58	2°R47	1°16	9°25	n.a.	M 7
T 8	18 50 18	11°24'12	11♐20	6°49	26°22	15°50	6°14	12°38	24°35	22°49	14°58	2°47	1°13	9°32	n.a.	T 8
W 9	18 54 15	12°21'41	25°50	8° 8	27°36	16°21	6°23	12°45	24°38	22°47	14°58	2°45	1°10	9°38	n.a.	W 9
T 10	18 58 11	13°19'10	10♑12	9°26	28°50	16°53	6°33	12°52	24°42	22°46	14°57	2°41	1° 7	9°45	n.a.	T 10
F 11	19 2 8	14°16'40	24°21	10°41	0♏ 4	17°25	6°42	12°59	24°45	22°44	14°57	2°36	1° 4	9°52	n.a.	F 11
S 12	19 6 4	15°14'12	8♒11	11°54	1°18	17°57	6°51	13° 6	24°49	22°43	14°56	2°29	1° 1	9°58	n.a.	S 12
S 13	19 10 1	16°11'45	21°40	13° 4	2°31	18°30	6°59	13°13	24°52	22°41	14°56	2°22	0°57	10° 5	n.a.	S 13
M14	19 13 57	17° 9'20	4♓47	14°13	3°45	19° 2	7° 8	13°20	24°56	22°40	14°55	2°16	0°54	10°12	n.a.	M14
T 15	19 17 54	18° 6'56	17°31	15°19	4°59	19°35	7°17	13°27	24°59	22°39	14°55	2°10	0°51	10°18	n.a.	T 15
W16	19 21 51	19° 4'33	29°55	16°23	6°13	20° 9	7°25	13°34	25° 2	22°37	14°54	2° 6	0°48	10°25	n.a.	W16
T 17	19 25 47	20° 2'13	12♈ 3	17°24	7°27	20°42	7°33	13°41	25° 6	22°36	14°54	2° 4	0°45	10°32	n.a.	T 17
F 18	19 29 44	20°59'54	24° 0	18°23	8°41	21°16	7°41	13°48	25° 9	22°34	14°53	2°D 4	0°42	10°38	n.a.	F 18
S 19	19 33 40	21°57'37	5♉50	19°19	9°55	21°50	7°49	13°55	25°13	22°33	14°52	2° 5	0°38	10°45	n.a.	S 19
S 20	19 37 37	22°55'21	17°39	20°12	11° 8	22°24	7°57	14° 2	25°16	22°32	14°52	2° 6	0°35	10°52	n.a.	S 20
M21	19 41 33	23°53'08	29°31	21° 2	12°22	22°59	8° 5	14° 8	25°19	22°30	14°51	2°R 7	0°32	10°58	n.a.	M21
T 22	19 45 30	24°50'56	11♊32	21°48	13°36	23°33	8°13	14°15	25°23	22°29	14°50	2° 6	0°29	11° 5	n.a.	T 22
W23	19 49 26	25°48'45	23°46	22°32	14°50	24° 8	8°20	14°21	25°26	22°28	14°50	2° 4	0°26	11°12	n.a.	W23
T 24	19 53 23	26°46'37	6♋14	23°11	16° 4	24°44	8°27	14°28	25°29	22°26	14°49	1°59	0°22	11°18	n.a.	T 24
F 25	19 57 20	27°44'30	18°59	23°47	17°18	25°19	8°34	14°35	25°32	22°25	14°48	1°52	0°19	11°25	n.a.	F 25
S 26	20 1 16	28°42'25	2♌ 2	24°18	18°32	25°55	8°41	14°41	25°36	22°24	14°47	1°44	0°16	11°32	n.a.	S 26
S 27	20 5 13	29°40'22	15°21	24°45	19°45	26°30	8°48	14°47	25°39	22°23	14°47	1°34	0°13	11°38	n.a.	S 27
M28	20 9 9	0♌38'20	28°55	25° 8	20°59	27° 7	8°55	14°54	25°42	22°21	14°46	1°24	0°10	11°45	n.a.	M28
T 29	20 13 6	1°36'19	12♍40	25°25	22°13	27°43	9° 2	15° 0	25°45	22°20	14°45	1°15	0° 7	11°52	n.a.	T 29
W30	20 17 2	2°34'20	26°34	25°37	23°27	28°19	9° 8	15° 6	25°48	22°19	14°44	1° 9	0° 3	11°58	n.a.	W30
T 31	20 20 59	3♌32'23	10♎35	25♌44	24♌41	28♎56	9♉14	15♊12	25♊51	22♐18	14♓44	1♐ 4	0♐ 0	12♉ 5	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n38	5n55	5s12	22n 7	1n 5	23n52	1n21	6s 1	1s12	12n23	1s 3	21n28	1s 0	23n50	0n15	22s40	0n51	21s44	17s13	20s57	20s43	16n28		n.a.
W 2	23 35	0 58	5 4	21 42	0 59	23 42	1 22	6 14	1 13	12 26	1 3	21 29	1 0	23 50	0 15	22 40	0 51	21 45	17 14	20 57	20 42	16 30		n.a.
T 3	23 33	4s 8	4 39	21 16	0 51	23 32	1 23	6 26	1 14	12 29	1 3	21 30	1 0	23 50	0 15	22 40	0 51	21 45	17 14	20 57	20 42	16 31		n.a.
F 4	23 30	9 6	3 56	20 49	0 44	23 22	1 24	6 39	1 15	12 32	1 3	21 31	1 0	23 51	0 15	22 40	0 51	21 46	17 14	20 57	20 41	16 33		n.a.
S 5	23 26	13 38	2 59	20 22	0 36	23 10	1 25	6 52	1 16	12 36	1 4	21 32	1 0	23 51	0 15	22 40	0 51	21 46	17 15	20 57	20 40	16 34		n.a.
S 6	23 22	17 26	1 49	19 54	0 28	22 58	1 26	7 5	1 17	12 39	1 4	21 33	1 0	23 51	0 15	22 40	0 51	21 47	17 15	20 57	20 40	16 35		n.a.
M 7	23 18	20 11	0 33	19 26	0 19	22 46	1 26	7 18	1 18	12 42	1 4	21 34	1 0	23 51	0 15	22 40	0 51	21 47	17 15	20 57	20 39	16 37		n.a.
T 8	23 13	21 38	0n46	18 57	0 11	22 32	1 27	7 31	1 19	12 45	1 4	21 35	1 0	23 51	0 15	22 40	0 51	21 48	17 16	20 57	20 38	16 38		n.a.
W 9	23 8	21 37	2 2	18 28	0 2	22 18	1 27	7 44	1 20	12 48	1 4	21 36	1 0	23 51	0 15	22 40	0 51	21 48	17 16	20 57	20 38	16 39		n.a.
T 10	23 2	20 10	3 9	17 59	0s 8	22 4	1 28	7 57	1 21	12 51	1 4	21 37	1 0	23 52	0 15	22 40	0 51	21 49	17 16	20 56	20 37	16 41		n.a.
F 11	22 56	17 30	4 3	17 29	0 17	21 48	1 28	8 10	1 22	12 54	1 4	21 38	1 0	23 52	0 15	22 40	0 51	21 49	17 17	20 55	20 36	16 42		n.a.
S 12	22 50	13 53	4 42	16 59	0 27	21 32	1 29	8 24	1 23	12 57	1 4	21 39	1 0	23 52	0 15	22 40	0 51	21 50	17 17	20 54	20 36	16 44		n.a.
S 13	22 43	9 39	5 4	16 30	0 37	21 16	1 29	8 37	1 24	12 59	1 4	21 39	1 0	23 52	0 15	22 39	0 51	21 50	17 17	20 52	20 35	16 45		n.a.
M14	22 36	5 5	5 9	16 0	0 47	20 59	1 29	8 51	1 25	13 2	1 4	21 40	1 0	23 52	0 15	22 39	0 51	21 51	17 18	20 51	20 34	16 46		n.a.
T 15	22 28	0 25	4 58	15 31	0 57	20 41	1 30	9 4	1 26	13 5	1 5	21 41	1 0	23 52	0 15	22 39	0 51	21 51	17 18	20 50	20 34	16 48		n.a.
W16	22 20	4n 9	4 34	15 2	1 8	20 23	1 30	9 18	1 26	13 8	1 5	21 42	1 0	23 53	0 15	22 39	0 51	21 52	17 18	20 49	20 33	16 49		n.a.
T 17	22 12	8 27	3 57	14 33	1 18	20 4	1 30	9 31	1 27	13 10	1 5	21 43	1 0	23 53	0 15	22 39	0 51	21 52	17 19	20 49	20 32	16 50		n.a.
F 18	22 3	12 22	3 11	14 5	1 29	19 44	1 30	9 45	1 28	13 13	1 5	21 44	1 0	23 53	0 15	22 39	0 51	21 53	17 19	20 49	20 32	16 52		n.a.
S 19	21 54	15 46	2 17	13 37	1 40	19 24	1 30	9 58	1 29	13 15	1 5	21 45	1 0	23 53	0 16	22 39	0 51	21 53	17 19	20 49	20 31	16 53		n.a.
S 20	21 44	18 31	1 17	13 10	1 51	19 4	1 29	10 12	1 30	13 18	1 5	21 45	1 0	23 53	0 16	22 39	0 51	21 54	17 19	20 49	20 30	16 54		n.a.
M21	21 34	20 30	0 14	12 44	2 1	18 42	1 29	10 26	1 31	13 20	1 5	21 46	1 0	23 53	0 16	22 39	0 51	21 54	17 20	20 49	20 30	16 56		n.a.
T 22	21 24	21 35	0s51	12 19	2 12	18 21	1 29	10 40	1 31	13 22	1 5	21 47	1 0	23 53	0 16	22 39	0 51	21 55	17 20	20 49	20 29	16 57		n.a.
W23	21 13	21 40	1 54	11 54	2 23	17 59	1 28	10 53	1 32	13 25	1 5	21 48	1 0	23 53	0 16	22 39	0 51	21 55	17 20	20 49	20 28	16 58		n.a.
T 24	21 2	20 41	2 53	11 31	2 34	17 36	1 28	11 7	1 33	13 27	1 5	21 49	1 0	23 54	0 16	22 39	0 51	21 56	17 21	20 48	20 28	17 0		n.a.
F 25	20 51	18 39	3 44	11 9	2 45	17 13	1 27	11 21	1 33	13 29	1 6	21 49	0 59	23 54	0 16	22 39	0 51	21 56	17 21	20 46	20 27	17 1		n.a.
S 26	20 39	15 37	4 25	10 49	2 55	16 49	1 27	11 35	1 34	13 31	1 6	21 50	0 59	23 54	0 16	22 39	0 51	21 57	17 21	20 45	20 26	17 2		n.a.
S 27	20 27	11 45	4 53	10 30	3 6	16 25	1 26	11 49	1 35	13 33	1 6	21 51	0 59	23 54	0 16	22 39	0 51	21 57	17 21	20 43	20 26	17 3		n.a.
M28	20 15	7 14	5 4	10 13	3 16	16 1	1 25	12 2	1 35	13 36	1 6	21 52	0 59	23 54	0 16	22 39	0 51	21 58	17 22	20 41	20 25	17 5		n.a.
T 29	20 2	2 17	4 59	9 58	3 25	15 36	1 25	12 16	1 36	13 38	1 6	21 52	0 59	23 54	0 16	22 39	0 51	21 59	17 22	20 39	20 24	17 6		n.a.
W30	19 49	2s49	4 35	9 46	3 35	15 10	1 24	12 30	1 37	13 39	1 6	21 53	0 59	23 54	0 16	22 39	0 51	21 59	17 22	20 37	20 24	17 7		n.a.
T 31	19n35	7s50	3s56	9n35	3s43	14n45	1n23	12s44	1s37	13n41	1s 6	21n54	0s59	23n54	0n16	22s39	0n51	22s 0	17s22	20s36	20s23	17n 9		n.a.

Julian Day Number = 1667547.5, Delta T = 03h22m20s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'12, Lahiri = - 5°59'12 Julian Calendar 1 July 148 BCE == Greg. Calendar 28 June 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

AUGUST 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 24 55	4♌30'27	24♎39	25°R46	25♌55	29♎33	9♉20	15♊18	25♊54	22°R17	14°R43	1°R 2	29♏57	12♉11	n.a.	F 1
S 2	20 28 52	5°28'33	8♏46	25♌41	27° 8	0♏10	9°26	15°24	25°57	22♐16	14♓42	1°D 2	29°54	12°18	n.a.	S 2
S 3	20 32 49	6°26'40	22°55	25°30	28°22	0°47	9°32	15°30	26° 0	22°15	14°41	1♐ 2	29°51	12°25	n.a.	S 3
M 4	20 36 45	7°24'48	7♐ 4	25°13	29°36	1°25	9°37	15°36	26° 3	22°14	14°40	1°R 2	29°47	12°31	n.a.	M 4
T 5	20 40 42	8°22'59	21°11	24°50	0♍50	2° 2	9°43	15°42	26° 6	22°13	14°39	1° 1	29°44	12°38	n.a.	T 5
W 6	20 44 38	9°21'10	5♑16	24°20	2° 4	2°40	9°48	15°48	26° 9	22°12	14°38	0°57	29°41	12°45	n.a.	W 6
T 7	20 48 35	10°19'24	19°13	23°45	3°17	3°18	9°53	15°53	26°12	22°11	14°37	0°50	29°38	12°51	n.a.	T 7
F 8	20 52 31	11°17'39	3♒ 0	23° 3	4°31	3°56	9°58	15°59	26°15	22°10	14°36	0°41	29°35	12°58	n.a.	F 8
S 9	20 56 28	12°15'56	16°34	22°16	5°45	4°35	10° 3	16° 4	26°18	22° 9	14°35	0°30	29°32	13° 5	n.a.	S 9
S 10	21 0 24	13°14'15	29°51	21°24	6°59	5°13	10° 7	16°10	26°20	22° 8	14°35	0°18	29°28	13°11	n.a.	S 10
M11	21 4 21	14°12'36	12♓49	20°28	8°12	5°52	10°12	16°15	26°23	22° 7	14°34	0° 6	29°25	13°18	n.a.	M11
T 12	21 8 18	15°10'59	25°29	19°29	9°26	6°31	10°16	16°21	26°26	22° 6	14°33	29♏56	29°22	13°25	n.a.	T 12
W13	21 12 14	16° 9'24	7♈50	18°28	10°40	7°10	10°20	16°26	26°28	22° 6	14°32	29°48	29°19	13°31	n.a.	W13
T 14	21 16 11	17° 7'52	19°57	17°26	11°53	7°49	10°24	16°31	26°31	22° 5	14°31	29°43	29°16	13°38	n.a.	T 14
F 15	21 20 7	18° 6'21	1♉53	16°26	13° 7	8°28	10°28	16°36	26°34	22° 4	14°30	29°40	29°13	13°45	n.a.	F 15
S 16	21 24 4	19° 4'53	13°42	15°27	14°21	9° 7	10°31	16°41	26°36	22° 3	14°28	29°39	29° 9	13°51	n.a.	S 16
S 17	21 28 0	20° 3'28	25°31	14°32	15°34	9°47	10°34	16°46	26°39	22° 3	14°27	29°39	29° 6	13°58	n.a.	S 17
M18	21 31 57	21° 2'04	7♊24	13°43	16°48	10°27	10°38	16°51	26°41	22° 2	14°26	29°39	29° 3	14° 5	n.a.	M18
T 19	21 35 53	22° 0'43	19°27	12°59	18° 2	11° 7	10°41	16°56	26°44	22° 1	14°25	29°38	29° 0	14°11	n.a.	T 19
W20	21 39 50	22°59'24	1♋45	12°24	19°15	11°47	10°43	17° 0	26°46	22° 1	14°24	29°34	28°57	14°18	n.a.	W20
T 21	21 43 46	23°58'08	14°21	11°56	20°29	12°27	10°46	17° 5	26°48	22° 0	14°23	29°28	28°53	14°25	n.a.	T 21
F 22	21 47 43	24°56'53	27°19	11°38	21°42	13° 7	10°48	17° 9	26°51	22° 0	14°22	29°20	28°50	14°31	n.a.	F 22
S 23	21 51 40	25°55'41	10♌40	11°D29	22°56	13°48	10°50	17°14	26°53	21°59	14°21	29° 9	28°47	14°38	n.a.	S 23
S 24	21 55 36	26°54'31	24°21	11°30	24°10	14°28	10°52	17°18	26°55	21°59	14°20	28°56	28°44	14°44	n.a.	S 24
M25	21 59 33	27°53'23	8♍20	11°41	25°23	15° 9	10°54	17°22	26°58	21°58	14°19	28°44	28°41	14°51	n.a.	M25
T 26	22 3 29	28°52'17	22°32	12° 2	26°37	15°50	10°56	17°27	27° 0	21°58	14°18	28°33	28°38	14°58	n.a.	T 26
W27	22 7 26	29°51'13	6♎51	12°32	27°50	16°31	10°57	17°31	27° 2	21°58	14°17	28°24	28°34	15° 4	n.a.	W27
T 28	22 11 22	0♍50'12	21°13	13°11	29° 4	17°12	10°58	17°35	27° 4	21°57	14°15	28°18	28°31	15°11	n.a.	T 28
F 29	22 15 19	1°49'11	5♏32	13°59	0♎17	17°54	10°59	17°38	27° 6	21°57	14°14	28°14	28°28	15°18	n.a.	F 29
S 30	22 19 15	2°48'13	19°46	14°55	1°31	18°35	11° 0	17°42	27° 8	21°57	14°13	28°13	28°25	15°24	n.a.	S 30
S 31	22 23 12	3♍47'17	3♐52	15♌58	2♎44	19♏17	11♉ 1	17♊46	27♊10	21♐56	14♓12	28♏13	28♏22	15♉31	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n21	12s28	3s 1	9n27	3s51	14n18	1n22	12s58	1s38	13n43	1s 6	21n54	0s59	23n55	0n16	22s39	0n51	22s 0	17s23	20s36	20s22	17n10		n.a.
S 2	19 7	16 25	1 56	9 22	3 59	13 52	1 21	13 11	1 38	13 45	1 7	21 55	0 59	23 55	0 16	22 39	0 51	22 1	17 23	20 36	20 22	17 11		n.a.
S 3	18 52	19 24	0 43	9 19	4 5	13 25	1 20	13 25	1 39	13 47	1 7	21 56	0 59	23 55	0 16	22 39	0 50	22 1	17 23	20 36	20 21	17 12		n.a.
M 4	18 38	21 13	0n32	9 20	4 11	12 58	1 18	13 39	1 39	13 48	1 7	21 56	0 59	23 55	0 16	22 38	0 50	22 2	17 23	20 36	20 20	17 14		n.a.
T 5	18 22	21 40	1 45	9 23	4 15	12 30	1 17	13 53	1 40	13 50	1 7	21 57	0 59	23 55	0 16	22 38	0 50	22 2	17 24	20 36	20 19	17 15		n.a.
W 6	18 7	20 45	2 51	9 30	4 18	12 2	1 16	14 6	1 40	13 51	1 7	21 58	0 59	23 55	0 16	22 38	0 50	22 3	17 24	20 35	20 19	17 16		n.a.
T 7	17 51	18 35	3 47	9 41	4 19	11 34	1 14	14 20	1 41	13 53	1 7	21 58	0 59	23 55	0 16	22 38	0 50	22 4	17 24	20 33	20 18	17 17		n.a.
F 8	17 35	15 22	4 28	9 54	4 19	11 6	1 13	14 34	1 41	13 54	1 7	21 59	0 59	23 55	0 16	22 38	0 50	22 4	17 24	20 32	20 17	17 19		n.a.
S 9	17 19	11 23	4 53	10 12	4 17	10 37	1 11	14 47	1 42	13 56	1 7	21 59	0 59	23 55	0 16	22 38	0 50	22 5	17 25	20 29	20 17	17 20		n.a.
S 10	17 2	6 57	5 2	10 32	4 14	10 8	1 10	15 1	1 42	13 57	1 8	22 0	0 59	23 56	0 16	22 38	0 50	22 5	17 25	20 27	20 16	17 21		n.a.
M11	16 45	2 18	4 55	10 55	4 8	9 38	1 8	15 14	1 43	13 58	1 8	22 1	0 59	23 56	0 16	22 38	0 50	22 6	17 25	20 24	20 15	17 22		n.a.
T 12	16 28	2n21	4 33	11 21	4 0	9 9	1 6	15 28	1 43	14 0	1 8	22 1	0 59	23 56	0 16	22 38	0 50	22 6	17 25	20 22	20 15	17 24		n.a.
W13	16 10	6 47	3 59	11 48	3 51	8 39	1 5	15 41	1 44	14 1	1 8	22 2	0 59	23 56	0 16	22 38	0 50	22 7	17 25	20 20	20 14	17 25		n.a.
T 14	15 53	10 53	3 14	12 18	3 39	8 9	1 3	15 55	1 44	14 2	1 8	22 2	0 59	23 56	0 16	22 38	0 50	22 8	17 26	20 19	20 13	17 26		n.a.
F 15	15 35	14 29	2 22	12 49	3 26	7 39	1 1	16 8	1 44	14 3	1 8	22 3	0 59	23 56	0 16	22 38	0 50	22 8	17 26	20 19	20 13	17 27		n.a.
S 16	15 16	17 28	1 24	13 21	3 11	7 8	0 59	16 21	1 45	14 4	1 8	22 3	0 59	23 56	0 16	22 38	0 50	22 9	17 26	20 18	20 12	17 28		n.a.
S 17	14 58	19 43	0 22	13 53	2 54	6 37	0 57	16 34	1 45	14 5	1 8	22 4	0 59	23 56	0 16	22 38	0 50	22 9	17 26	20 18	20 11	17 30		n.a.
M18	14 39	21 7	0s41	14 24	2 37	6 7	0 55	16 47	1 45	14 6	1 9	22 4	0 59	23 56	0 16	22 38	0 50	22 10	17 26	20 18	20 10	17 31		n.a.
T 19	14 20	21 35	1 43	14 54	2 18	5 36	0 53	17 0	1 46	14 6	1 9	22 5	0 59	23 56	0 16	22 38	0 50	22 10	17 26	20 18	20 10	17 32		n.a.
W20	14 1	21 1	2 41	15 22	1 59	5 4	0 51	17 13	1 46	14 7	1 9	22 5	0 59	23 56	0 16	22 38	0 50	22 11	17 26	20 17	20 9	17 33		n.a.
T 21	13 41	19 24	3 33	15 49	1 40	4 33	0 48	17 26	1 46	14 8	1 9	22 5	0 59	23 56	0 16	22 38	0 50	22 12	17 27	20 16	20 8	17 34		n.a.
F 22	13 21	16 45	4 16	16 13	1 20	4 2	0 46	17 39	1 47	14 9	1 9	22 6	0 59	23 57	0 16	22 38	0 50	22 12	17 27	20 14	20 8	17 36		n.a.
S 23	13 1	13 11	4 45	16 34	1 1	3 30	0 44	17 51	1 47	14 9	1 9	22 6	0 59	23 57	0 16	22 38	0 50	22 13	17 27	20 12	20 7	17 37		n.a.
S 24	12 41	8 51	5 0	16 51	0 42	2 58	0 41	18 4	1 47	14 10	1 9	22 7	0 59	23 57	0 16	22 38	0 50	22 13	17 27	20 9	20 6	17 38		n.a.
M25	12 21	3 58	4 56	17 6	0 24	2 27	0 39	18 16	1 47	14 10	1 9	22 7	0 59	23 57	0 16	22 38	0 50	22 14	17 27	20 6	20 6	17 39		n.a.
T 26	12 0	1s12	4 35	17 16	0 7	1 55	0 36	18 29	1 48	14 10	1 10	22 7	0 59	23 57	0 16	22 38	0 50	22 14	17 27	20 4	20 5	17 40		n.a.
W27	11 39	6 21	3 56	17 24	0n10	1 23	0 34	18 41	1 48	14 11	1 10	22 8	0 59	23 57	0 16	22 38	0 50	22 15	17 27	20 2	20 4	17 42		n.a.
T 28	11 18	11 11	3 2	17 27	0 25	0 51	0 31	18 53	1 48	14 11	1 10	22 8	0 59	23 57	0 16	22 38	0 50	22 15	17 27	20 0	20 3	17 43		n.a.
F 29	10 57	15 21	1 57	17 26	0 39	0 19	0 29	19 5	1 48	14 11	1 10	22 9	0 59	23 57	0 16	22 38	0 50	22 16	17 27	20 0	20 3	17 44		n.a.
S 30	10 35	18 36	0 45	17 22	0 52	0s13	0 26	19 17	1 48	14 11	1 10	22 9	0 59	23 57	0 16	22 38	0 50	22 16	17 28	19 59	20 2	17 45		n.a.
S 31	10n14	20s40	0n30	17n14	1n 3	0s45	0n23	19s29	1s48	14n11	1s10	22n 9	1s 0	23n57	0n16	22s38	0n49	22s17	17s28	19s59	20s 1	17n46		n.a.

Julian Day Number = 1667578.5, Delta T = 03h22m19s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'08, Lahiri = - 5°59'07 Julian Calendar 1 Aug. 148 BCE == Greg. Calendar 29 July 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

SEPTEMBER 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 27 9	4♍46'23	17♐51	17♌ 9	3♎58	19♏58	11♉ 1	17♊50	27♊12	21°R56	14°R11	28°R13	28♏19	15♉38	n.a.	M 1
T 2	22 31 5	5°45'30	1♑41	18°25	5°11	20°40	11°R 1	17°53	27°14	21♐56	14♓10	28♏11	28°15	15°44	n.a.	T 2
W 3	22 35 2	6°44'39	15°23	19°46	6°25	21°22	11° 1	17°56	27°15	21°56	14° 8	28° 7	28°12	15°51	n.a.	W 3
T 4	22 38 58	7°43'51	28°56	21°12	7°38	22° 4	11° 1	18° 0	27°17	21°56	14° 7	27°59	28° 9	15°58	n.a.	T 4
F 5	22 42 55	8°43'04	12♒19	22°41	8°51	22°46	11° 1	18° 3	27°19	21°56	14° 6	27°49	28° 6	16° 4	n.a.	F 5
S 6	22 46 51	9°42'19	25°30	24°15	10° 5	23°28	11° 0	18° 6	27°20	21°56	14° 5	27°37	28° 3	16°11	n.a.	S 6
S 7	22 50 48	10°41'36	8♓27	25°50	11°18	24°11	10°59	18° 9	27°22	21°D56	14° 4	27°24	27°59	16°18	n.a.	S 7
M 8	22 54 44	11°40'55	21°11	27°29	12°31	24°53	10°58	18°12	27°24	21°56	14° 3	27°12	27°56	16°24	n.a.	M 8
T 9	22 58 41	12°40'16	3♈39	29° 9	13°45	25°35	10°57	18°15	27°25	21°56	14° 1	27° 0	27°53	16°31	n.a.	T 9
W10	23 2 37	13°39'40	15°54	0♍50	14°58	26°18	10°56	18°18	27°27	21°56	14° 0	26°51	27°50	16°37	n.a.	W10
T 11	23 6 34	14°39'06	27°57	2°33	16°11	27° 1	10°54	18°20	27°28	21°56	13°59	26°45	27°47	16°44	n.a.	T 11
F 12	23 10 31	15°38'34	9♉50	4°16	17°25	27°44	10°52	18°23	27°29	21°56	13°58	26°42	27°44	16°51	n.a.	F 12
S 13	23 14 27	16°38'05	21°38	6° 0	18°38	28°27	10°50	18°25	27°31	21°56	13°57	26°D40	27°40	16°57	n.a.	S 13
S 14	23 18 24	17°37'38	3♊25	7°45	19°51	29°10	10°48	18°27	27°32	21°56	13°56	26°40	27°37	17° 4	n.a.	S 14
M15	23 22 20	18°37'14	15°17	9°29	21° 4	29°53	10°46	18°30	27°33	21°57	13°54	26°R41	27°34	17°11	n.a.	M15
T 16	23 26 17	19°36'52	27°18	11°13	22°17	0♐36	10°43	18°32	27°34	21°57	13°53	26°40	27°31	17°17	n.a.	T 16
W17	23 30 13	20°36'32	9♋36	12°58	23°30	1°19	10°40	18°34	27°35	21°57	13°52	26°39	27°28	17°24	n.a.	W17
T 18	23 34 10	21°36'15	22°13	14°42	24°43	2° 2	10°37	18°36	27°36	21°58	13°51	26°34	27°24	17°31	n.a.	T 18
F 19	23 38 6	22°36'00	5♌15	16°26	25°57	2°46	10°34	18°37	27°37	21°58	13°50	26°28	27°21	17°37	n.a.	F 19
S 20	23 42 3	23°35'47	18°43	18° 9	27°10	3°29	10°31	18°39	27°38	21°59	13°49	26°19	27°18	17°44	n.a.	S 20
S 21	23 46 0	24°35'37	2♍37	19°52	28°23	4°13	10°27	18°41	27°39	21°59	13°48	26°10	27°15	17°51	n.a.	S 21
M22	23 49 56	25°35'28	16°54	21°34	29°36	4°57	10°23	18°42	27°40	21°59	13°46	25°59	27°12	17°57	n.a.	M22
T 23	23 53 53	26°35'22	1♎29	23°16	0♏49	5°41	10°19	18°43	27°41	22° 0	13°45	25°50	27° 9	18° 4	n.a.	T 23
W24	23 57 49	27°35'18	16°14	24°58	2° 2	6°25	10°15	18°44	27°42	22° 1	13°44	25°43	27° 5	18°11	n.a.	W24
T 25	0 1 46	28°35'15	1♏ 1	26°39	3°15	7° 9	10°11	18°46	27°42	22° 1	13°43	25°38	27° 2	18°17	n.a.	T 25
F 26	0 5 42	29°35'15	15°43	28°19	4°28	7°53	10° 6	18°47	27°43	22° 2	13°42	25°35	26°59	18°24	n.a.	F 26
S 27	0 9 39	0♎35'17	0♐15	29°59	5°40	8°37	10° 2	18°47	27°43	22° 2	13°41	25°D35	26°56	18°30	n.a.	S 27
S 28	0 13 35	1°35'20	14°32	1♎38	6°53	9°21	9°57	18°48	27°44	22° 3	13°40	25°36	26°53	18°37	n.a.	S 28
M29	0 17 32	2°35'25	28°34	3°17	8° 6	10° 5	9°52	18°49	27°44	22° 4	13°38	25°R37	26°50	18°44	n.a.	M29
T 30	0 21 29	3♎35'31	12♑19	4♎56	9♏19	10♐49	9♉47	18♊49	27♊45	22♐ 5	13♓37	25♏36	26♏46	18♉50	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n52	21s27	1n42	17n 2	1n14	1s17	0n21	19s40	1s49	14n11	1s10	22n10	1s 0	23n57	0n16	22s38	0n49	22s17	17s28	19s59	20s 1	17n47		n.a.
T 2	9 30	20 55	2 47	16 47	1 23	1 49	0 18	19 52	1 49	14 11	1 10	22 10	1 0	23 57	0 16	22 38	0 49	22 18	17 28	19 59	20 0	17 48		n.a.
W 3	9 8	19 8	3 42	16 29	1 30	2 21	0 15	20 3	1 49	14 11	1 11	22 10	1 0	23 57	0 16	22 39	0 49	22 18	17 28	19 58	19 59	17 50		n.a.
T 4	8 46	16 18	4 24	16 8	1 37	2 53	0 12	20 15	1 49	14 11	1 11	22 10	1 0	23 57	0 16	22 39	0 49	22 19	17 28	19 56	19 58	17 51		n.a.
F 5	8 24	12 39	4 50	15 43	1 43	3 24	0 9	20 26	1 49	14 11	1 11	22 11	1 0	23 57	0 16	22 39	0 49	22 20	17 28	19 54	19 58	17 52		n.a.
S 6	8 1	8 27	5 1	15 16	1 47	3 56	0 6	20 37	1 49	14 10	1 11	22 11	1 0	23 58	0 16	22 39	0 49	22 20	17 28	19 51	19 57	17 53		n.a.
S 7	7 38	3 56	4 55	14 47	1 51	4 28	0 4	20 47	1 49	14 10	1 11	22 11	1 0	23 58	0 16	22 39	0 49	22 20	17 28	19 48	19 56	17 54		n.a.
M 8	7 16	0n41	4 35	14 15	1 53	5 0	0 1	20 58	1 49	14 10	1 11	22 11	1 0	23 58	0 17	22 39	0 49	22 21	17 28	19 45	19 56	17 55		n.a.
T 9	6 53	5 10	4 2	13 42	1 55	5 31	0s 2	21 8	1 49	14 9	1 11	22 12	1 0	23 58	0 17	22 39	0 49	22 21	17 28	19 43	19 55	17 56		n.a.
W10	6 30	9 22	3 19	13 6	1 56	6 3	0 5	21 19	1 49	14 9	1 11	22 12	1 0	23 58	0 17	22 39	0 49	22 22	17 28	19 41	19 54	17 57		n.a.
T 11	6 7	13 8	2 27	12 29	1 56	6 34	0 8	21 29	1 49	14 8	1 12	22 12	1 0	23 58	0 17	22 39	0 49	22 22	17 28	19 39	19 53	17 58		n.a.
F 12	5 43	16 19	1 28	11 50	1 55	7 5	0 11	21 39	1 49	14 7	1 12	22 12	1 0	23 58	0 17	22 39	0 49	22 23	17 28	19 38	19 53	18 0		n.a.
S 13	5 20	18 49	0 27	11 10	1 54	7 36	0 14	21 49	1 49	14 7	1 12	22 13	1 0	23 58	0 17	22 39	0 49	22 23	17 28	19 38	19 52	18 1		n.a.
S 14	4 57	20 29	0s36	10 29	1 52	8 7	0 18	21 58	1 49	14 6	1 12	22 13	1 0	23 58	0 17	22 39	0 49	22 24	17 28	19 38	19 51	18 2		n.a.
M15	4 33	21 16	1 38	9 47	1 49	8 38	0 21	22 8	1 49	14 5	1 12	22 13	1 0	23 58	0 17	22 39	0 49	22 24	17 28	19 38	19 50	18 3		n.a.
T 16	4 9	21 5	2 36	9 5	1 47	9 8	0 24	22 17	1 49	14 4	1 12	22 13	1 0	23 58	0 17	22 39	0 49	22 25	17 28	19 38	19 50	18 4		n.a.
W17	3 46	19 54	3 28	8 21	1 43	9 39	0 27	22 26	1 49	14 3	1 12	22 13	1 0	23 58	0 17	22 39	0 49	22 25	17 28	19 38	19 49	18 5		n.a.
T 18	3 22	17 43	4 12	7 37	1 39	10 9	0 30	22 35	1 49	14 2	1 12	22 13	1 0	23 58	0 17	22 39	0 49	22 25	17 28	19 37	19 48	18 6		n.a.
F 19	2 58	14 35	4 44	6 52	1 35	10 39	0 33	22 44	1 49	14 1	1 12	22 13	1 0	23 58	0 17	22 39	0 49	22 26	17 28	19 35	19 48	18 7		n.a.
S 20	2 34	10 36	5 2	6 8	1 31	11 8	0 36	22 52	1 49	14 0	1 12	22 14	1 0	23 58	0 17	22 39	0 49	22 26	17 28	19 33	19 47	18 8		n.a.
S 21	2 10	5 58	5 2	5 22	1 26	11 38	0 39	23 0	1 49	13 59	1 12	22 14	1 0	23 58	0 17	22 39	0 49	22 27	17 28	19 31	19 46	18 9		n.a.
M22	1 46	0 52	4 45	4 37	1 21	12 7	0 42	23 9	1 48	13 57	1 13	22 14	1 0	23 58	0 17	22 39	0 49	22 27	17 28	19 28	19 45	18 10		n.a.
T 23	1 22	4s23	4 8	3 51	1 16	12 36	0 45	23 16	1 48	13 56	1 13	22 14	1 0	23 58	0 17	22 40	0 49	22 27	17 27	19 26	19 45	18 11		n.a.
W24	0 58	9 26	3 15	3 6	1 10	13 4	0 49	23 24	1 48	13 55	1 13	22 14	1 0	23 58	0 17	22 40	0 49	22 28	17 27	19 24	19 44	18 12		n.a.
T 25	0 34	13 57	2 8	2 20	1 4	13 33	0 52	23 32	1 48	13 53	1 13	22 14	1 0	23 58	0 17	22 40	0 49	22 28	17 27	19 23	19 43	18 13		n.a.
F 26	0 10	17 34	0 53	1 34	0 58	14 1	0 55	23 39	1 48	13 52	1 13	22 14	1 0	23 58	0 17	22 40	0 48	22 29	17 27	19 23	19 42	18 14		n.a.
S 27	0s14	20 2	0n25	0 48	0 52	14 28	0 58	23 46	1 48	13 50	1 13	22 14	1 0	23 58	0 17	22 40	0 48	22 29	17 27	19 22	19 42	18 15		n.a.
S 28	0 38	21 9	1 40	0 3	0 46	14 55	1 1	23 53	1 48	13 49	1 13	22 14	1 0	23 59	0 17	22 40	0 48	22 29	17 27	19 23	19 41	18 16		n.a.
M29	1 2	20 54	2 48	0s43	0 40	15 22	1 4	23 59	1 47	13 47	1 13	22 14	1 0	23 59	0 17	22 40	0 48	22 30	17 27	19 23	19 40	18 17		n.a.
T 30	1s27	19s24	3n44	1s28	0n34	15s49	1s 7	24s 5	1s47	13n45	1s13	22n14	1s 0	23n59	0n17	22s40	0n48	22s30	17s27	19s23	19s39	18n18		n.a.

Julian Day Number = 1667609.5, Delta T = 03h22m18s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'04, Lahiri = - 5°59'03 Julian Calendar 1 Sept. 148 BCE == Greg. Calendar 29 Aug. 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

OCTOBER 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 25 25	4♎35'40	25♉49	6♎33	10♏32	11♐34	9°R41	18♊50	27♊45	22♐ 5	13°R36	25°R34	26♏43	18♉57	n.a.	W 1
T 2	0 29 22	5°35'49	9♒ 5	8°11	11°44	12°18	9♉36	18°50	27°45	22° 6	13♓35	25♏30	26°40	19° 4	n.a.	T 2
F 3	0 33 18	6°36'01	22° 7	9°48	12°57	13° 3	9°30	18°50	27°46	22° 7	13°34	25°23	26°37	19°10	n.a.	F 3
S 4	0 37 15	7°36'14	4♓56	11°24	14°10	13°47	9°24	18°R50	27°46	22° 8	13°33	25°15	26°34	19°17	n.a.	S 4
S 5	0 41 11	8°36'29	17°33	13° 0	15°22	14°32	9°18	18°50	27°46	22° 9	13°32	25° 6	26°30	19°24	n.a.	S 5
M 6	0 45 8	9°36'45	29°59	14°35	16°35	15°17	9°12	18°50	27°46	22°10	13°31	24°58	26°27	19°30	n.a.	M 6
T 7	0 49 4	10°37'04	12♈14	16°10	17°47	16° 1	9° 6	18°50	27°R46	22°11	13°30	24°50	26°24	19°37	n.a.	T 7
W 8	0 53 1	11°37'24	24°18	17°45	19° 0	16°46	8°59	18°50	27°46	22°12	13°29	24°44	26°21	19°44	n.a.	W 8
T 9	0 56 57	12°37'46	6♉15	19°19	20°12	17°31	8°53	18°49	27°46	22°13	13°28	24°40	26°18	19°50	n.a.	T 9
F 10	1 0 54	13°38'10	18° 5	20°53	21°25	18°16	8°46	18°48	27°46	22°14	13°27	24°38	26°15	19°57	n.a.	F 10
S 11	1 4 51	14°38'36	29°51	22°27	22°37	19° 1	8°39	18°48	27°46	22°15	13°26	24°D38	26°11	20° 4	n.a.	S 11
S 12	1 8 47	15°39'04	11♊38	24° 0	23°49	19°46	8°32	18°47	27°45	22°16	13°25	24°39	26° 8	20°10	n.a.	S 12
M13	1 12 44	16°39'34	23°29	25°33	25° 2	20°31	8°25	18°46	27°45	22°17	13°24	24°41	26° 5	20°17	n.a.	M13
T 14	1 16 40	17°40'06	5♋29	27° 6	26°14	21°16	8°18	18°45	27°45	22°18	13°23	24°42	26° 2	20°23	n.a.	T 14
W15	1 20 37	18°40'40	17°44	28°38	27°26	22° 1	8°11	18°44	27°44	22°20	13°22	24°R43	25°59	20°30	n.a.	W15
T 16	1 24 33	19°41'15	0♌17	0♏10	28°38	22°47	8° 4	18°42	27°44	22°21	13°21	24°42	25°56	20°37	n.a.	T 16
F 17	1 28 30	20°41'53	13°15	1°42	29°50	23°32	7°56	18°41	27°43	22°22	13°20	24°40	25°52	20°43	n.a.	F 17
S 18	1 32 26	21°42'32	26°39	3°13	1♐ 2	24°17	7°48	18°40	27°43	22°24	13°19	24°37	25°49	20°50	n.a.	S 18
S 19	1 36 23	22°43'14	10♍31	4°45	2°14	25° 2	7°41	18°38	27°42	22°25	13°19	24°32	25°46	20°57	n.a.	S 19
M20	1 40 20	23°43'56	24°51	6°16	3°26	25°48	7°33	18°36	27°41	22°26	13°18	24°27	25°43	21° 3	n.a.	M20
T 21	1 44 16	24°44'41	9♎35	7°46	4°38	26°33	7°25	18°34	27°41	22°28	13°17	24°23	25°40	21°10	n.a.	T 21
W22	1 48 13	25°45'27	24°34	9°17	5°50	27°19	7°17	18°33	27°40	22°29	13°16	24°19	25°36	21°17	n.a.	W22
T 23	1 52 9	26°46'15	9♏41	10°47	7° 2	28° 4	7°10	18°30	27°39	22°30	13°15	24°17	25°33	21°23	n.a.	T 23
F 24	1 56 6	27°47'04	24°46	12°16	8°14	28°50	7° 2	18°28	27°38	22°32	13°14	24°D16	25°30	21°30	n.a.	F 24
S 25	2 0 2	28°47'54	9♐41	13°46	9°25	29°35	6°54	18°26	27°37	22°33	13°14	24°17	25°27	21°37	n.a.	S 25
S 26	2 3 59	29°48'46	24°18	15°15	10°37	0♑21	6°45	18°24	27°36	22°35	13°13	24°18	25°24	21°43	n.a.	S 26
M27	2 7 55	0♏49'38	8♑34	16°43	11°49	1° 6	6°37	18°21	27°35	22°37	13°12	24°20	25°21	21°50	n.a.	M27
T 28	2 11 52	1°50'32	22°28	18°11	13° 0	1°52	6°29	18°19	27°34	22°38	13°11	24°21	25°17	21°56	n.a.	T 28
W29	2 15 49	2°51'26	5♒58	19°39	14°12	2°38	6°21	18°16	27°33	22°40	13°11	24°R21	25°14	22° 3	n.a.	W29
T 30	2 19 45	3°52'22	19° 7	21° 5	15°23	3°24	6°13	18°13	27°32	22°41	13°10	24°20	25°11	22°10	n.a.	T 30
F 31	2 23 42	4♏53'18	1♓58	22♏31	16♐34	4♑ 9	6♉ 5	18♊11	27♊30	22♐43	13♓ 9	24♏19	25♏ 8	22♉16	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	1 s51	16 s51	4n27	2 s13	0n27	16 s15	1 s10	24 s11	1 s47	13n44	1 s13	22n14	1 s 0	23n59	0n17	22 s40	0n48	22 s30	17 s27	19 s22	19 s39	18n19			n.a.
T 2	2 15	13 27	4 55	2 58	0 21	16 41	1 13	24 17	1 47	13 42	1 13	22 14	1 0	23 59	0 17	22 40	0 48	22 31	17 26	19 21	19 38	18 20			n.a.
F 3	2 39	9 27	5 7	3 42	0 14	17 6	1 16	24 23	1 46	13 40	1 13	22 14	1 0	23 59	0 17	22 40	0 48	22 31	17 26	19 20	19 37	18 21			n.a.
S 4	3 3	5 7	5 3	4 26	0 8	17 31	1 19	24 28	1 46	13 38	1 13	22 14	1 0	23 59	0 17	22 40	0 48	22 31	17 26	19 18	19 36	18 22			n.a.
S 5	3 27	0 37	4 45	5 10	0 1	17 56	1 22	24 33	1 46	13 36	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 31	17 26	19 16	19 36	18 23			n.a.
M 6	3 51	3n51	4 13	5 54	0 s 6	18 20	1 24	24 38	1 46	13 34	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 32	17 26	19 13	19 35	18 24			n.a.
T 7	4 15	8 5	3 29	6 37	0 12	18 43	1 27	24 43	1 45	13 32	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 32	17 26	19 11	19 34	18 25			n.a.
W 8	4 39	11 57	2 37	7 20	0 19	19 7	1 30	24 47	1 45	13 30	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 32	17 26	19 10	19 33	18 26			n.a.
T 9	5 3	15 18	1 38	8 2	0 25	19 29	1 33	24 51	1 45	13 28	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 32	17 25	19 9	19 33	18 27			n.a.
F 10	5 26	17 59	0 36	8 44	0 32	19 51	1 36	24 55	1 44	13 26	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 33	17 25	19 9	19 32	18 28			n.a.
S 11	5 50	19 53	0 s28	9 26	0 38	20 13	1 38	24 59	1 44	13 24	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 33	17 25	19 9	19 31	18 29			n.a.
S 12	6 14	20 56	1 31	10 6	0 45	20 34	1 41	25 2	1 44	13 21	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 33	17 25	19 9	19 30	18 30			n.a.
M13	6 37	21 2	2 31	10 47	0 51	20 55	1 43	25 5	1 44	13 19	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 33	17 25	19 9	19 30	18 31			n.a.
T 14	7 1	20 11	3 25	11 27	0 57	21 15	1 46	25 8	1 43	13 17	1 13	22 14	1 0	23 59	0 17	22 41	0 48	22 33	17 24	19 10	19 29	18 32			n.a.
W15	7 24	18 23	4 10	12 6	1 4	21 34	1 48	25 11	1 43	13 14	1 13	22 14	1 0	23 59	0 17	22 42	0 48	22 34	17 24	19 10	19 28	18 33			n.a.
T 16	7 47	15 41	4 45	12 45	1 10	21 53	1 51	25 13	1 42	13 12	1 13	22 14	1 0	23 59	0 17	22 42	0 48	22 34	17 24	19 10	19 27	18 34			n.a.
F 17	8 10	12 8	5 7	13 23	1 15	22 11	1 53	25 15	1 42	13 10	1 13	22 14	1 0	23 59	0 17	22 42	0 48	22 34	17 24	19 9	19 27	18 35			n.a.
S 18	8 33	7 52	5 13	14 0	1 21	22 29	1 56	25 17	1 42	13 7	1 13	22 13	1 0	23 59	0 17	22 42	0 48	22 34	17 23	19 8	19 26	18 36			n.a.
S 19	8 56	3 4	5 1	14 37	1 27	22 46	1 58	25 18	1 41	13 5	1 13	22 13	1 0	23 59	0 18	22 42	0 48	22 34	17 23	19 7	19 25	18 37			n.a.
M20	9 19	2 s 4	4 30	15 13	1 32	23 3	2 0	25 19	1 41	13 2	1 13	22 13	1 0	23 59	0 18	22 42	0 48	22 34	17 23	19 6	19 24	18 38			n.a.
T 21	9 41	7 13	3 41	15 48	1 38	23 18	2 2	25 20	1 40	13 0	1 13	22 13	1 0	23 59	0 18	22 42	0 48	22 34	17 23	19 5	19 24	18 39			n.a.
W22	10 4	12 2	2 36	16 22	1 43	23 34	2 4	25 21	1 40	12 57	1 13	22 13	1 0	23 59	0 18	22 42	0 48	22 35	17 22	19 4	19 23	18 40			n.a.
T 23	10 26	16 8	1 19	16 56	1 48	23 48	2 6	25 21	1 40	12 55	1 13	22 13	1 0	23 59	0 18	22 42	0 47	22 35	17 22	19 3	19 22	18 41			n.a.
F 24	10 48	19 8	0n 3	17 29	1 52	24 2	2 8	25 22	1 39	12 52	1 13	22 12	1 0	23 59	0 18	22 43	0 47	22 35	17 22	19 3	19 21	18 41			n.a.
S 25	11 10	20 46	1 24	18 0	1 57	24 15	2 10	25 21	1 39	12 50	1 13	22 12	1 0	23 59	0 18	22 43	0 47	22 35	17 22	19 3	19 21	18 42			n.a.
S 26	11 32	20 57	2 38	18 31	2 1	24 28	2 12	25 21	1 38	12 47	1 13	22 12	1 0	23 59	0 18	22 43	0 47	22 35	17 21	19 4	19 20	18 43			n.a.
M27	11 54	19 46	3 41	19 1	2 5	24 40	2 13	25 20	1 38	12 44	1 13	22 12	1 0	23 59	0 18	22 43	0 47	22 35	17 21	19 4	19 19	18 44			n.a.
T 28	12 15	17 24	4 28	19 30	2 9	24 51	2 15	25 19	1 37	12 42	1 12	22 12	1 0	23 59	0 18	22 43	0 47	22 35	17 21	19 4	19 18	18 45			n.a.
W29	12 36	14 9	5 0	19 58	2 12	25 1	2 16	25 18	1 37	12 39	1 12	22 11	1 0	23 59	0 18	22 43	0 47	22 35	17 21	19 4	19 17	18 46			n.a.
T 30	12 57	10 17	5 15	20 24	2 15	25 11	2 18	25 16	1 36	12 37	1 12	22 11	1 0	23 59	0 18	22 43	0 47	22 35	17 20	19 4	19 17	18 47			n.a.
F 31	13 s18	6 s 1	5n13	20 s50	2 s18	25 s20	2 s19	25 s15	1 s36	12n34	1 s12	22n11	1 s 0	23n59	0n18	22 s43	0n47	22 s35	17 s20	19 s 4	19 s16	18n48			n.a.

Julian Day Number = 1667639.5, Delta T = 03h22m18s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°06'00, Lahiri = - 5°58'59 Julian Calendar 1 Oct. 148 BCE == Greg. Calendar 28 Sept. 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

NOVEMBER 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 38	5♏54'15	14♓33	23♏57	17♐45	4♑55	5°R56	18°R 8	27°R29	22♐45	13°R 9	24°R16	25♏ 5	22♉23	n.a.	S 1
S 2	2 31 35	6°55'13	26°54	25°21	18°56	5°41	5♉48	18♊ 5	27♊28	22°46	13♓ 8	24♏13	25° 1	22°30	n.a.	S 2
M 3	2 35 31	7°56'12	9♈ 5	26°44	20° 7	6°27	5°40	18° 1	27°26	22°48	13° 8	24°11	24°58	22°36	n.a.	M 3
T 4	2 39 28	8°57'12	21° 7	28° 6	21°18	7°12	5°32	17°58	27°25	22°50	13° 7	24° 8	24°55	22°43	n.a.	T 4
W 5	2 43 24	9°58'13	3♉ 2	29°27	22°29	7°58	5°24	17°55	27°24	22°52	13° 6	24° 7	24°52	22°50	n.a.	W 5
T 6	2 47 21	10°59'15	14°52	0♐46	23°40	8°44	5°16	17°52	27°22	22°53	13° 6	24° 6	24°49	22°56	n.a.	T 6
F 7	2 51 18	12° 0'17	26°40	2° 3	24°50	9°30	5° 8	17°48	27°20	22°55	13° 5	24°D 5	24°46	23° 3	n.a.	F 7
S 8	2 55 14	13° 1'21	8♊28	3°17	26° 1	10°16	5° 0	17°45	27°19	22°57	13° 5	24° 6	24°42	23°10	n.a.	S 8
S 9	2 59 11	14° 2'26	20°17	4°29	27°11	11° 2	4°52	17°41	27°17	22°59	13° 4	24° 7	24°39	23°16	n.a.	S 9
M10	3 3 7	15° 3'32	2♋11	5°38	28°22	11°48	4°44	17°37	27°16	23° 1	13° 4	24° 8	24°36	23°23	n.a.	M10
T 11	3 7 4	16° 4'39	14°14	6°44	29°32	12°34	4°36	17°33	27°14	23° 3	13° 3	24° 9	24°33	23°30	n.a.	T 11
W12	3 11 0	17° 5'47	26°29	7°45	0♑42	13°20	4°28	17°30	27°12	23° 5	13° 3	24° 9	24°30	23°36	n.a.	W12
T 13	3 14 57	18° 6'56	9♌ 0	8°42	1°52	14° 6	4°20	17°26	27°10	23° 7	13° 3	24°10	24°27	23°43	n.a.	T 13
F 14	3 18 53	19° 8'06	21°52	9°33	3° 2	14°51	4°12	17°22	27° 8	23° 8	13° 2	24°R10	24°23	23°49	n.a.	F 14
S 15	3 22 50	20° 9'17	5♍ 7	10°18	4°12	15°37	4° 5	17°17	27° 6	23°10	13° 2	24°10	24°20	23°56	n.a.	S 15
S 16	3 26 47	21°10'28	18°48	10°56	5°22	16°23	3°57	17°13	27° 5	23°12	13° 1	24° 9	24°17	24° 3	n.a.	S 16
M17	3 30 43	22°11'41	2♎57	11°27	6°31	17° 9	3°50	17° 9	27° 3	23°14	13° 1	24° 9	24°14	24° 9	n.a.	M17
T 18	3 34 40	23°12'54	17°31	11°49	7°40	17°55	3°43	17° 5	27° 1	23°16	13° 1	24° 9	24°11	24°16	n.a.	T 18
W19	3 38 36	24°14'08	2♏26	12° 1	8°50	18°41	3°35	17° 0	26°59	23°18	13° 1	24°D 9	24° 7	24°23	n.a.	W19
T 20	3 42 33	25°15'23	17°35	12°R 3	9°59	19°27	3°28	16°56	26°56	23°21	13° 0	24°R 9	24° 4	24°29	n.a.	T 20
F 21	3 46 29	26°16'38	2♐50	11°54	11° 8	20°13	3°21	16°52	26°54	23°23	13° 0	24° 9	24° 1	24°36	n.a.	F 21
S 22	3 50 26	27°17'54	17°59	11°34	12°17	20°59	3°14	16°47	26°52	23°25	13° 0	24° 9	23°58	24°43	n.a.	S 22
S 23	3 54 22	28°19'10	2♑55	11° 1	13°25	21°45	3° 8	16°43	26°50	23°27	13° 0	24° 8	23°55	24°49	n.a.	S 23
M24	3 58 19	29°20'26	17°29	10°17	14°34	22°31	3° 1	16°38	26°48	23°29	13° 0	24° 8	23°52	24°56	n.a.	M24
T 25	4 2 16	0♐21'42	1♒37	9°23	15°42	23°17	2°55	16°33	26°46	23°31	12°59	24° 7	23°48	25° 3	n.a.	T 25
W26	4 6 12	1°22'57	15°18	8°18	16°51	24° 3	2°48	16°29	26°43	23°33	12°59	24° 7	23°45	25° 9	n.a.	W26
T 27	4 10 9	2°24'13	28°32	7° 6	17°59	24°49	2°42	16°24	26°41	23°35	12°59	24°D 6	23°42	25°16	n.a.	T 27
F 28	4 14 5	3°25'29	11♓22	5°47	19° 6	25°35	2°36	16°19	26°39	23°37	12°59	24° 6	23°39	25°22	n.a.	F 28
S 29	4 18 2	4°26'44	23°52	4°26	20°14	26°21	2°30	16°14	26°36	23°40	12°59	24° 7	23°36	25°29	n.a.	S 29
S 30	4 21 58	5♐27'59	6♈ 6	3♐ 4	21♑21	27♑ 7	2♉24	16♊10	26♊34	23♐42	12°D59	24♏ 8	23♏33	25♉36	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s38	1s36	4n56	21s14	2s20	25s28	2s20	25s13	1s35	12n31	1s12	22n11	1s 0	23n59	0n18	22s43	0n47	22s35	17s20	19s 3	19s15	18n49		n.a.
S 2	13 59	2n49	4 26	21 36	2 22	25 36	2 22	25 10	1 35	12 29	1 12	22 10	1 0	23 59	0 18	22 44	0 47	22 35	17 19	19 2	19 14	18 49		n.a.
M 3	14 19	7 4	3 44	21 58	2 23	25 43	2 23	25 7	1 34	12 26	1 12	22 10	1 0	23 59	0 18	22 44	0 47	22 35	17 19	19 2	19 14	18 50		n.a.
T 4	14 39	10 59	2 53	22 18	2 24	25 49	2 24	25 5	1 34	12 23	1 12	22 10	1 0	23 59	0 18	22 44	0 47	22 35	17 19	19 1	19 13	18 51		n.a.
W 5	14 58	14 27	1 54	22 36	2 24	25 54	2 25	25 1	1 33	12 21	1 11	22 10	1 0	23 59	0 18	22 44	0 47	22 35	17 18	19 1	19 12	18 52		n.a.
T 6	15 18	17 18	0 51	22 53	2 23	25 59	2 25	24 58	1 33	12 18	1 11	22 9	1 0	23 59	0 18	22 44	0 47	22 35	17 18	19 1	19 11	18 53		n.a.
F 7	15 37	19 24	0s14	23 8	2 22	26 3	2 26	24 54	1 32	12 16	1 11	22 9	1 0	23 59	0 18	22 44	0 47	22 35	17 18	19 0	19 10	18 54		n.a.
S 8	15 55	20 40	1 19	23 21	2 21	26 6	2 27	24 50	1 32	12 13	1 11	22 9	1 0	23 59	0 18	22 44	0 47	22 34	17 17	19 1	19 10	18 54		n.a.
S 9	16 14	21 1	2 21	23 33	2 18	26 8	2 27	24 46	1 31	12 11	1 11	22 9	1 0	23 59	0 18	22 44	0 47	22 34	17 17	19 1	19 9	18 55		n.a.
M10	16 32	20 25	3 16	23 42	2 15	26 10	2 28	24 41	1 31	12 8	1 11	22 8	1 0	23 59	0 18	22 45	0 47	22 34	17 17	19 1	19 8	18 56		n.a.
T 11	16 50	18 53	4 4	23 49	2 11	26 10	2 28	24 36	1 30	12 6	1 10	22 8	1 0	23 59	0 18	22 45	0 47	22 34	17 16	19 1	19 7	18 57		n.a.
W12	17 8	16 29	4 42	23 55	2 6	26 11	2 28	24 31	1 30	12 3	1 10	22 8	1 0	23 59	0 18	22 45	0 47	22 34	17 16	19 1	19 7	18 58		n.a.
T 13	17 25	13 16	5 7	23 58	1 59	26 10	2 28	24 26	1 29	12 1	1 10	22 7	1 0	23 59	0 18	22 45	0 47	22 34	17 16	19 2	19 6	18 59		n.a.
F 14	17 42	9 22	5 18	23 59	1 52	26 9	2 28	24 20	1 28	11 58	1 10	22 7	1 0	23 59	0 18	22 45	0 47	22 34	17 15	19 2	19 5	18 59		n.a.
S 15	17 59	4 54	5 12	23 57	1 44	26 6	2 28	24 14	1 28	11 56	1 10	22 7	0 59	23 59	0 18	22 45	0 47	22 34	17 15	19 2	19 4	19 0		n.a.
S 16	18 15	0 3	4 49	23 53	1 34	26 4	2 28	24 8	1 27	11 53	1 10	22 6	0 59	23 59	0 18	22 45	0 47	22 33	17 15	19 1	19 3	19 1		n.a.
M17	18 32	4s58	4 8	23 47	1 23	26 0	2 27	24 2	1 27	11 51	1 9	22 6	0 59	23 59	0 18	22 45	0 47	22 33	17 14	19 1	19 3	19 2		n.a.
T 18	18 47	9 52	3 10	23 37	1 10	25 56	2 27	23 55	1 26	11 49	1 9	22 6	0 59	23 59	0 18	22 46	0 47	22 33	17 14	19 1	19 2	19 3		n.a.
W19	19 3	14 18	1 58	23 25	0 56	25 51	2 26	23 48	1 25	11 47	1 9	22 5	0 59	23 59	0 18	22 46	0 47	22 33	17 14	19 1	19 1	19 3		n.a.
T 20	19 18	17 51	0 36	23 10	0 41	25 45	2 25	23 41	1 25	11 44	1 9	22 5	0 59	23 59	0 18	22 46	0 47	22 33	17 13	19 1	19 0	19 4		n.a.
F 21	19 32	20 11	0n48	22 53	0 25	25 38	2 24	23 33	1 24	11 42	1 8	22 4	0 59	23 59	0 18	22 46	0 47	22 32	17 13	19 1	18 59	19 5		n.a.
S 22	19 47	21 1	2 9	22 32	0 7	25 31	2 23	23 26	1 24	11 40	1 8	22 4	0 59	23 59	0 18	22 46	0 47	22 32	17 13	19 1	18 59	19 6		n.a.
S 23	20 1	20 21	3 20	22 9	0n12	25 23	2 22	23 18	1 23	11 38	1 8	22 4	0 59	23 59	0 18	22 46	0 47	22 32	17 12	19 1	18 58	19 7		n.a.
M24	20 14	18 20	4 15	21 43	0 32	25 14	2 21	23 9	1 22	11 36	1 8	22 3	0 59	23 59	0 18	22 46	0 47	22 32	17 12	19 1	18 57	19 7		n.a.
T 25	20 27	15 15	4 54	21 15	0 52	25 5	2 20	23 1	1 22	11 34	1 8	22 3	0 59	23 59	0 18	22 46	0 47	22 31	17 12	19 1	18 56	19 8		n.a.
W26	20 40	11 26	5 14	20 45	1 12	24 55	2 18	22 52	1 21	11 32	1 7	22 2	0 59	23 59	0 18	22 47	0 47	22 31	17 11	19 1	18 55	19 9		n.a.
T 27	20 53	7 10	5 17	20 14	1 32	24 45	2 17	22 43	1 20	11 30	1 7	22 2	0 59	23 59	0 18	22 47	0 47	22 31	17 11	19 1	18 55	19 10		n.a.
F 28	21 5	2 42	5 4	19 42	1 51	24 33	2 15	22 34	1 20	11 28	1 7	22 2	0 59	23 58	0 18	22 47	0 47	22 30	17 10	19 1	18 54	19 10		n.a.
S 29	21 16	1n46	4 36	19 10	2 8	24 21	2 13	22 25	1 19	11 26	1 7	22 1	0 59	23 58	0 18	22 47	0 47	22 30	17 10	19 1	18 53	19 11		n.a.
S 30	21s27	6n 4	3n57	18s39	2n24	24s 9	2s11	22s15	1s18	11n25	1s 6	22n 1	0s58	23n58	0n18	22s47	0n46	22s30	17s10	19s 1	18s52	19n12		n.a.

Julian Day Number = 1667670.5, Delta T = 03h22m17s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'55, Lahiri = - 5°58'55 Julian Calendar 1 Nov. 148 BCE == Greg. Calendar 29 Oct. 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 148 BCE
geocentric

DECEMBER 148 BCE (-147) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 25 55	6♐29'14	18♈ 7	1°R45	22♑29	27♑53	2°R19	16°R 5	26°R32	23♐44	12♓59	24♏ 9	23♏29	25♉42	n.a.	M 1
T 2	4 29 51	7°30'29	0♉ 1	0♐30	23°36	28°39	2♉13	16♊ 0	26♊29	23°46	12°59	24°10	23°26	25°49	n.a.	T 2
W 3	4 33 48	8°31'43	11°50	29♏22	24°42	29°25	2° 8	15°55	26°27	23°48	12°59	24°11	23°23	25°56	n.a.	W 3
T 4	4 37 45	9°32'58	23°37	28°22	25°49	0♒11	2° 3	15°50	26°24	23°51	12°59	24°R12	23°20	26° 2	n.a.	T 4
F 5	4 41 41	10°34'12	5♊25	27°32	26°55	0°57	1°58	15°45	26°22	23°53	12°59	24°11	23°17	26° 9	n.a.	F 5
S 6	4 45 38	11°35'26	17°16	26°52	28° 1	1°43	1°53	15°40	26°19	23°55	12°59	24°10	23°13	26°16	n.a.	S 6
S 7	4 49 34	12°36'40	29°13	26°22	29° 7	2°29	1°49	15°35	26°17	23°57	13° 0	24° 8	23°10	26°22	n.a.	S 7
M 8	4 53 31	13°37'54	11♋16	26° 1	0♒13	3°15	1°44	15°30	26°14	24° 0	13° 0	24° 5	23° 7	26°29	n.a.	M 8
T 9	4 57 27	14°39'07	23°29	25°51	1°18	4° 1	1°40	15°25	26°12	24° 2	13° 0	24° 1	23° 4	26°36	n.a.	T 9
W10	5 1 24	15°40'20	5♌52	25°D50	2°23	4°47	1°36	15°20	26° 9	24° 4	13° 0	23°58	23° 1	26°42	n.a.	W10
T 11	5 5 21	16°41'34	18°28	25°58	3°28	5°32	1°32	15°15	26° 7	24° 6	13° 0	23°55	22°58	26°49	n.a.	T 11
F 12	5 9 17	17°42'46	1♍21	26°13	4°32	6°18	1°29	15°10	26° 4	24° 9	13° 1	23°53	22°54	26°56	n.a.	F 12
S 13	5 13 14	18°43'59	14°31	26°36	5°36	7° 4	1°25	15° 5	26° 2	24°11	13° 1	23°D52	22°51	27° 2	n.a.	S 13
S 14	5 17 10	19°45'12	28° 2	27° 5	6°40	7°50	1°22	15° 0	25°59	24°13	13° 1	23°52	22°48	27° 9	n.a.	S 14
M15	5 21 7	20°46'24	11♎55	27°40	7°44	8°35	1°19	14°55	25°57	24°15	13° 2	23°53	22°45	27°15	n.a.	M15
T 16	5 25 3	21°47'36	26°10	28°20	8°47	9°21	1°16	14°51	25°54	24°18	13° 2	23°55	22°42	27°22	n.a.	T 16
W17	5 29 0	22°48'48	10♏47	29° 5	9°50	10° 7	1°14	14°46	25°51	24°20	13° 2	23°56	22°39	27°29	n.a.	W17
T 18	5 32 56	23°49'59	25°40	29°55	10°52	10°53	1°11	14°41	25°49	24°22	13° 3	23°R56	22°35	27°35	n.a.	T 18
F 19	5 36 53	24°51'10	10♐44	0♐48	11°54	11°38	1° 9	14°36	25°46	24°24	13° 3	23°56	22°32	27°42	n.a.	F 19
S 20	5 40 50	25°52'20	25°50	1°45	12°56	12°24	1° 7	14°31	25°44	24°27	13° 4	23°53	22°29	27°49	n.a.	S 20
S 21	5 44 46	26°53'30	10♑48	2°46	13°57	13°10	1° 5	14°26	25°41	24°29	13° 4	23°49	22°26	27°55	n.a.	S 21
M22	5 48 43	27°54'39	25°30	3°48	14°58	13°55	1° 3	14°21	25°38	24°31	13° 5	23°44	22°23	28° 2	n.a.	M22
T 23	5 52 39	28°55'46	9♒49	4°54	15°59	14°41	1° 2	14°17	25°36	24°34	13° 5	23°38	22°19	28° 9	n.a.	T 23
W24	5 56 36	29°56'53	23°41	6° 2	16°59	15°26	1° 1	14°12	25°33	24°36	13° 6	23°33	22°16	28°15	n.a.	W24
T 25	6 0 32	0♑57'58	7♓ 4	7°12	17°58	16°12	1° 0	14° 7	25°30	24°38	13° 6	23°29	22°13	28°22	n.a.	T 25
F 26	6 4 29	1°59'02	20° 1	8°23	18°57	16°57	0°59	14° 3	25°28	24°40	13° 7	23°26	22°10	28°29	n.a.	F 26
S 27	6 8 25	3° 0'05	2♈33	9°37	19°56	17°43	0°58	13°58	25°25	24°43	13° 7	23°D25	22° 7	28°35	n.a.	S 27
S 28	6 12 22	4° 1'06	14°47	10°52	20°54	18°28	0°58	13°54	25°23	24°45	13° 8	23°26	22° 4	28°42	n.a.	S 28
M29	6 16 19	5° 2'06	26°46	12° 9	21°52	19°14	0°D58	13°49	25°20	24°47	13° 9	23°27	22° 0	28°49	n.a.	M29
T 30	6 20 15	6° 3'05	8♉37	13°27	22°49	19°59	0°58	13°45	25°18	24°49	13° 9	23°29	21°57	28°55	n.a.	T 30
W31	6 24 12	7♑ 4'03	20♉23	14♐47	23♒45	20♒45	0♉58	13♊40	25♊15	24♐52	13♓10	23°R30	21♏54	29♉ 2	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21s38	10n 4	3n 7	18s10	2n38	23s56	2s 9	22s 5	1s18	11n23	1s 6	22n 0	0s58	23n58	0n18	22s47	0n46	22s29	17s 9	19s 1	18s51	19n13		n.a.
T 2	21 49	13 38	2 10	17 44	2 49	23 42	2 6	21 55	1 17	11 21	1 6	22 0	0 58	23 58	0 18	22 47	0 46	22 29	17 9	19 2	18 51	19 13		n.a.
W 3	21 59	16 38	1 8	17 21	2 58	23 27	2 4	21 45	1 16	11 20	1 5	22 0	0 58	23 58	0 18	22 47	0 46	22 29	17 9	19 2	18 50	19 14		n.a.
T 4	22 8	18 56	0 3	17 1	3 5	23 12	2 1	21 34	1 16	11 18	1 5	21 59	0 58	23 58	0 18	22 48	0 46	22 28	17 8	19 2	18 49	19 15		n.a.
F 5	22 17	20 26	1s 2	16 46	3 9	22 57	1 59	21 24	1 15	11 17	1 5	21 59	0 58	23 58	0 18	22 48	0 46	22 28	17 8	19 2	18 48	19 16		n.a.
S 6	22 26	21 2	2 4	16 35	3 11	22 41	1 56	21 13	1 14	11 15	1 5	21 58	0 58	23 58	0 19	22 48	0 46	22 28	17 8	19 2	18 47	19 16		n.a.
S 7	22 34	20 41	3 2	16 27	3 11	22 24	1 53	21 1	1 14	11 14	1 4	21 58	0 58	23 58	0 19	22 48	0 46	22 27	17 7	19 1	18 47	19 17		n.a.
M 8	22 42	19 23	3 52	16 24	3 10	22 7	1 50	20 50	1 13	11 13	1 4	21 57	0 58	23 58	0 19	22 48	0 46	22 27	17 7	19 0	18 46	19 18		n.a.
T 9	22 49	17 11	4 32	16 25	3 7	21 49	1 46	20 38	1 12	11 11	1 4	21 57	0 58	23 58	0 19	22 48	0 46	22 26	17 6	18 59	18 45	19 18		n.a.
W10	22 56	14 11	5 0	16 28	3 3	21 31	1 43	20 27	1 12	11 10	1 4	21 56	0 58	23 58	0 19	22 48	0 46	22 26	17 6	18 59	18 44	19 19		n.a.
T 11	23 2	10 29	5 14	16 35	2 58	21 12	1 39	20 15	1 11	11 9	1 3	21 56	0 57	23 58	0 19	22 48	0 46	22 25	17 6	18 58	18 43	19 20		n.a.
F 12	23 8	6 15	5 12	16 45	2 52	20 53	1 35	20 2	1 10	11 8	1 3	21 56	0 57	23 58	0 19	22 49	0 46	22 25	17 5	18 57	18 43	19 20		n.a.
S 13	23 14	1 38	4 55	16 56	2 45	20 34	1 32	19 50	1 9	11 7	1 3	21 55	0 57	23 58	0 19	22 49	0 46	22 25	17 5	18 57	18 42	19 21		n.a.
S 14	23 19	3s11	4 21	17 10	2 38	20 14	1 28	19 38	1 9	11 6	1 2	21 55	0 57	23 58	0 19	22 49	0 46	22 24	17 5	18 57	18 41	19 22		n.a.
M15	23 23	8 0	3 31	17 26	2 30	19 53	1 23	19 25	1 8	11 6	1 2	21 54	0 57	23 58	0 19	22 49	0 46	22 24	17 4	18 57	18 40	19 22		n.a.
T 16	23 27	12 30	2 27	17 43	2 21	19 32	1 19	19 12	1 7	11 5	1 2	21 54	0 57	23 57	0 19	22 49	0 46	22 23	17 4	18 58	18 39	19 23		n.a.
W17	23 31	16 22	1 12	18 1	2 13	19 11	1 14	18 59	1 7	11 4	1 2	21 53	0 57	23 57	0 19	22 49	0 46	22 23	17 4	18 58	18 38	19 24		n.a.
T 18	23 34	19 14	0n 9	18 21	2 4	18 49	1 10	18 45	1 6	11 4	1 1	21 53	0 57	23 57	0 19	22 49	0 46	22 22	17 3	18 58	18 38	19 24		n.a.
F 19	23 37	20 49	1 31	18 40	1 55	18 27	1 5	18 32	1 5	11 3	1 1	21 53	0 56	23 57	0 19	22 49	0 46	22 22	17 3	18 58	18 37	19 25		n.a.
S 20	23 39	20 53	2 46	19 1	1 46	18 5	1 0	18 18	1 4	11 3	1 1	21 52	0 56	23 57	0 19	22 49	0 46	22 21	17 2	18 57	18 36	19 26		n.a.
S 21	23 40	19 28	3 49	19 22	1 37	17 42	0 55	18 4	1 4	11 2	1 0	21 52	0 56	23 57	0 19	22 50	0 46	22 21	17 2	18 56	18 35	19 26		n.a.
M22	23 42	16 46	4 35	19 43	1 28	17 19	0 50	17 50	1 3	11 2	1 0	21 51	0 56	23 57	0 19	22 50	0 46	22 20	17 2	18 55	18 34	19 27		n.a.
T 23	23 42	13 7	5 3	20 4	1 19	16 56	0 44	17 36	1 2	11 2	1 0	21 51	0 56	23 57	0 19	22 50	0 46	22 20	17 1	18 54	18 34	19 28		n.a.
W24	23 43	8 52	5 12	20 25	1 10	16 32	0 39	17 22	1 2	11 2	1 0	21 50	0 56	23 57	0 19	22 50	0 46	22 19	17 1	18 52	18 33	19 28		n.a.
T 25	23 42	4 19	5 3	20 46	1 1	16 8	0 33	17 8	1 1	11 2	0 59	21 50	0 56	23 57	0 19	22 50	0 46	22 19	17 1	18 51	18 32	19 29		n.a.
F 26	23 42	0n16	4 39	21 6	0 52	15 44	0 27	16 53	1 0	11 2	0 59	21 50	0 56	23 57	0 19	22 50	0 46	22 18	17 0	18 51	18 31	19 30		n.a.
S 27	23 41	4 44	4 2	21 26	0 43	15 20	0 21	16 38	0 59	11 2	0 59	21 49	0 55	23 57	0 19	22 50	0 46	22 18	17 0	18 50	18 30	19 30		n.a.
S 28	23 39	8 53	3 15	21 46	0 34	14 56	0 15	16 23	0 59	11 2	0 58	21 49	0 55	23 57	0 19	22 50	0 46	22 17	17 0	18 51	18 29	19 31		n.a.
M29	23 37	12 37	2 20	22 5	0 26	14 31	0 9	16 8	0 58	11 2	0 58	21 48	0 55	23 56	0 19	22 50	0 46	22 16	16 59	18 51	18 29	19 31		n.a.
T 30	23 34	15 48	1 20	22 23	0 17	14 6	0 2	15 53	0 57	11 2	0 58	21 48	0 55	23 56	0 19	22 50	0 46	22 16	16 59	18 51	18 28	19 32		n.a.
W31	23s31	18n19	0n17	22s41	0n 9	13s41	0n 5	15s38	0s56	11n 3	0s57	21n48	0s55	23n56	0n19	22s51	0n46	22s15	16s59	18s52	18s27	19n33		n.a.

Julian Day Number = 1667700.5, Delta T = 03h22m16s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'51, Lahiri = - 5°58'51 Julian Calendar 1 Dec. 148 BCE == Greg. Calendar 28 Nov. 148 BCE

The year -147 astronomical counting style corresponds to year 148 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

JANUARY 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 28 8	8♉ 4'59	2♊10	16♐ 7	24♒41	21♒30	0♉58	13°R36	25°R13	24♐54	13♓11	23°R30	21♏51	29♉ 8	n.a.	T 1
F 2	6 32 5	9° 5'54	14° 0	17°29	25°36	22°15	0°59	13♊32	25♊10	24°56	13°11	23♏27	21°48	29°15	n.a.	F 2
S 3	6 36 1	10° 6'47	25°58	18°52	26°31	23° 0	1° 0	13°28	25° 8	24°58	13°12	23°23	21°45	29°22	n.a.	S 3
S 4	6 39 58	11° 7'40	8♋ 5	20°16	27°24	23°46	1° 1	13°24	25° 5	25° 1	13°13	23°16	21°41	29°28	n.a.	S 4
M 5	6 43 55	12° 8'30	20°22	21°41	28°18	24°31	1° 2	13°20	25° 3	25° 3	13°14	23° 7	21°38	29°35	n.a.	M 5
T 6	6 47 51	13° 9'20	2♌50	23° 7	29°10	25°16	1° 4	13°16	25° 0	25° 5	13°14	22°58	21°35	29°42	n.a.	T 6
W 7	6 51 48	14°10'08	15°30	24°34	0♓ 2	26° 1	1° 5	13°12	24°58	25° 7	13°15	22°48	21°32	29°48	n.a.	W 7
T 8	6 55 44	15°10'56	28°22	26° 1	0°53	26°46	1° 7	13° 8	24°55	25° 9	13°16	22°39	21°29	29°55	n.a.	T 8
F 9	6 59 41	16°11'41	11♍26	27°30	1°43	27°31	1° 9	13° 4	24°53	25°11	13°17	22°32	21°25	0♊ 2	n.a.	F 9
S 10	7 3 37	17°12'26	24°43	29° 0	2°32	28°16	1°11	13° 0	24°51	25°14	13°18	22°27	21°22	0° 8	n.a.	S 10
S 11	7 7 34	18°13'09	8♎14	0♉30	3°20	29° 1	1°14	12°57	24°48	25°16	13°19	22°25	21°19	0°15	n.a.	S 11
M12	7 11 30	19°13'52	22° 0	2° 1	4° 8	29°46	1°16	12°53	24°46	25°18	13°20	22°D24	21°16	0°22	n.a.	M12
T 13	7 15 27	20°14'33	6♏ 0	3°33	4°55	0♓31	1°19	12°50	24°44	25°20	13°21	22°25	21°13	0°28	n.a.	T 13
W14	7 19 24	21°15'13	20°16	5° 6	5°40	1°16	1°22	12°46	24°41	25°22	13°21	22°R26	21°10	0°35	n.a.	W14
T 15	7 23 20	22°15'51	4♐46	6°40	6°25	2° 1	1°25	12°43	24°39	25°24	13°22	22°25	21° 6	0°42	n.a.	T 15
F 16	7 27 17	23°16'29	19°26	8°15	7° 8	2°46	1°29	12°40	24°37	25°26	13°23	22°22	21° 3	0°48	n.a.	F 16
S 17	7 31 13	24°17'05	4♑11	9°51	7°51	3°30	1°32	12°37	24°35	25°28	13°24	22°17	21° 0	0°55	n.a.	S 17
S 18	7 35 10	25°17'39	18°53	11°27	8°32	4°15	1°36	12°34	24°33	25°30	13°25	22° 9	20°57	1° 1	n.a.	S 18
M19	7 39 6	26°18'12	3♒26	13° 5	9°13	5° 0	1°40	12°31	24°31	25°32	13°27	21°59	20°54	1° 8	n.a.	M19
T 20	7 43 3	27°18'43	17°41	14°43	9°52	5°45	1°44	12°28	24°28	25°34	13°28	21°48	20°50	1°15	n.a.	T 20
W21	7 46 59	28°19'12	1♓33	16°22	10°29	6°29	1°48	12°26	24°26	25°36	13°29	21°37	20°47	1°21	n.a.	W21
T 22	7 50 56	29°19'39	15° 0	18° 2	11° 6	7°14	1°53	12°23	24°24	25°38	13°30	21°28	20°44	1°28	n.a.	T 22
F 23	7 54 53	0♒20'04	28° 0	19°43	11°41	7°58	1°58	12°21	24°22	25°40	13°31	21°21	20°41	1°35	n.a.	F 23
S 24	7 58 49	1°20'27	10♈37	21°25	12°14	8°43	2° 2	12°18	24°20	25°42	13°32	21°17	20°38	1°41	n.a.	S 24
S 25	8 2 46	2°20'47	22°53	23° 8	12°46	9°27	2° 8	12°16	24°19	25°44	13°33	21°15	20°35	1°48	n.a.	S 25
M26	8 6 42	3°21'06	4♉54	24°52	13°17	10°12	2°13	12°14	24°17	25°46	13°34	21°D14	20°31	1°55	n.a.	M26
T 27	8 10 39	4°21'23	16°46	26°37	13°46	10°56	2°18	12°12	24°15	25°48	13°35	21°R15	20°28	2° 1	n.a.	T 27
W28	8 14 35	5°21'38	28°33	28°23	14°13	11°40	2°24	12°10	24°13	25°50	13°37	21°14	20°25	2° 8	n.a.	W28
T 29	8 18 32	6°21'50	10♊21	0♒10	14°39	12°25	2°29	12° 8	24°11	25°52	13°38	21°13	20°22	2°15	n.a.	T 29
F 30	8 22 28	7°22'01	22°15	1°58	15° 2	13° 9	2°35	12° 6	24°10	25°54	13°39	21° 9	20°19	2°21	n.a.	F 30
S 31	8 26 25	8♒22'09	4♋19	3♒47	15♓24	13♓53	2♉41	12♊ 4	24♊ 8	25♐55	13♓40	21♏ 2	20♏16	2♊28	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23s28	20n 4	0s47	22s58	0n 1	13s16	0n11	15s22	0s56	11n 3	0s57	21n47	0s55	23n56	0n19	22s51	0n46	22s15	16s58	18s51	18s26	19n33			n.a.
F 2	23 24	20 56	1 49	23 14	0s 7	12 51	0 18	15 7	0 55	11 4	0 57	21 47	0 54	23 56	0 19	22 51	0 46	22 14	16 58	18 51	18 25	19 34			n.a.
S 3	23 19	20 53	2 46	23 29	0 15	12 25	0 26	14 51	0 54	11 4	0 57	21 47	0 54	23 56	0 19	22 51	0 46	22 14	16 58	18 50	18 24	19 34			n.a.
S 4	23 14	19 51	3 37	23 43	0 22	12 0	0 33	14 35	0 53	11 5	0 56	21 46	0 54	23 56	0 19	22 51	0 46	22 13	16 57	18 48	18 24	19 35			n.a.
M 5	23 9	17 53	4 18	23 56	0 30	11 34	0 40	14 20	0 53	11 6	0 56	21 46	0 54	23 56	0 19	22 51	0 46	22 12	16 57	18 46	18 23	19 36			n.a.
T 6	23 3	15 4	4 48	24 9	0 37	11 9	0 48	14 4	0 52	11 6	0 56	21 45	0 54	23 56	0 19	22 51	0 46	22 12	16 57	18 43	18 22	19 36			n.a.
W 7	22 57	11 32	5 4	24 20	0 44	10 43	0 56	13 47	0 51	11 7	0 55	21 45	0 54	23 56	0 19	22 51	0 46	22 11	16 56	18 41	18 21	19 37			n.a.
T 8	22 50	7 25	5 5	24 29	0 50	10 18	1 4	13 31	0 50	11 8	0 55	21 45	0 54	23 56	0 19	22 51	0 46	22 11	16 56	18 39	18 20	19 37			n.a.
F 9	22 43	2 53	4 50	24 38	0 57	9 52	1 12	13 15	0 50	11 9	0 55	21 45	0 53	23 55	0 19	22 51	0 46	22 10	16 56	18 37	18 19	19 38			n.a.
S 10	22 35	1s51	4 20	24 46	1 3	9 27	1 20	12 58	0 49	11 10	0 55	21 44	0 53	23 55	0 19	22 51	0 46	22 9	16 55	18 36	18 19	19 39			n.a.
S 11	22 27	6 35	3 34	24 52	1 9	9 1	1 29	12 42	0 48	11 11	0 54	21 44	0 53	23 55	0 19	22 51	0 46	22 9	16 55	18 35	18 18	19 39			n.a.
M12	22 19	11 4	2 36	24 57	1 15	8 36	1 37	12 25	0 48	11 12	0 54	21 44	0 53	23 55	0 19	22 52	0 46	22 8	16 55	18 35	18 17	19 40			n.a.
T 13	22 10	15 2	1 27	25 0	1 20	8 11	1 46	12 9	0 47	11 14	0 54	21 43	0 53	23 55	0 19	22 52	0 46	22 7	16 55	18 35	18 16	19 40			n.a.
W14	22 1	18 12	0 12	25 2	1 25	7 46	1 55	11 52	0 46	11 15	0 53	21 43	0 53	23 55	0 19	22 52	0 46	22 7	16 54	18 35	18 15	19 41			n.a.
T 15	21 51	20 15	1n 6	25 3	1 30	7 21	2 4	11 35	0 45	11 16	0 53	21 43	0 52	23 55	0 19	22 52	0 46	22 6	16 54	18 35	18 14	19 41			n.a.
F 16	21 41	20 58	2 19	25 2	1 35	6 56	2 13	11 18	0 45	11 18	0 53	21 43	0 52	23 55	0 19	22 52	0 46	22 5	16 54	18 34	18 13	19 42			n.a.
S 17	21 30	20 15	3 24	24 59	1 39	6 31	2 22	11 1	0 44	11 19	0 53	21 42	0 52	23 55	0 19	22 52	0 46	22 5	16 53	18 33	18 13	19 42			n.a.
S 18	21 19	18 10	4 14	24 55	1 43	6 7	2 32	10 44	0 43	11 21	0 52	21 42	0 52	23 55	0 19	22 52	0 46	22 4	16 53	18 31	18 12	19 43			n.a.
M19	21 8	14 57	4 48	24 50	1 47	5 43	2 42	10 26	0 42	11 23	0 52	21 42	0 52	23 55	0 19	22 52	0 46	22 3	16 53	18 28	18 11	19 43			n.a.
T 20	20 56	10 54	5 3	24 43	1 50	5 19	2 51	10 9	0 42	11 24	0 52	21 42	0 51	23 54	0 19	22 52	0 46	22 3	16 53	18 25	18 10	19 44			n.a.
W21	20 44	6 24	4 59	24 34	1 53	4 55	3 1	9 52	0 41	11 26	0 51	21 42	0 51	23 54	0 19	22 52	0 46	22 2	16 52	18 22	18 9	19 44			n.a.
T 22	20 31	1 42	4 39	24 24	1 56	4 32	3 11	9 34	0 40	11 28	0 51	21 41	0 51	23 54	0 19	22 52	0 46	22 2	16 52	18 20	18 8	19 45			n.a.
F 23	20 18	2n55	4 4	24 11	1 58	4 10	3 22	9 17	0 39	11 30	0 51	21 41	0 51	23 54	0 19	22 52	0 46	22 1	16 52	18 18	18 8	19 45			n.a.
S 24	20 5	7 17	3 19	23 57	2 0	3 47	3 32	8 59	0 39	11 32	0 51	21 41	0 51	23 54	0 19	22 52	0 46	22 0	16 52	18 17	18 7	19 46			n.a.
S 25	19 52	11 14	2 25	23 42	2 1	3 25	3 42	8 42	0 38	11 34	0 50	21 41	0 51	23 54	0 19	22 52	0 46	22 0	16 51	18 17	18 6	19 46			n.a.
M26	19 38	14 39	1 26	23 24	2 2	3 4	3 53	8 24	0 37	11 36	0 50	21 41	0 50	23 54	0 19	22 52	0 46	21 59	16 51	18 16	18 5	19 47			n.a.
T 27	19 23	17 25	0 24	23 5	2 3	2 43	4 4	8 6	0 36	11 38	0 50	21 41	0 50	23 54	0 19	22 53	0 46	21 58	16 51	18 17	18 4	19 47			n.a.
W28	19 9	19 26	0s39	22 44	2 3	2 22	4 14	7 49	0 36	11 40	0 50	21 41	0 50	23 54	0 19	22 53	0 46	21 58	16 51	18 16	18 3	19 48			n.a.
T 29	18 54	20 37	1 40	22 21	2 3	2 2	4 25	7 31	0 35	11 42	0 49	21 41	0 50	23 54	0 19	22 53	0 46	21 57	16 50	18 16	18 2	19 48			n.a.
F 30	18 38	20 52	2 37	21 56	2 2	1 43	4 36	7 13	0 34	11 44	0 49	21 41	0 50	23 54	0 19	22 53	0 46	21 56	16 50	18 15	18 2	19 49			n.a.
S 31	18s23	20n11	3s27	21s29	2s 1	1s25	4n47	6s55	0s33	11n47	0s49	21n41	0s49	23n54	0n19	22s53	0n46	21s55	16s50	18s13	18s 1	19n49			n.a.

Julian Day Number = 1667731.5, Delta T = 03h22m15s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'47, Lahiri = - 5°58'47 Julian Calendar 1 Jan. 147 BCE == Greg. Calendar 29 Dec. 148 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

FEBRUARY 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 30 22	9♒22'15	16♋35	5♒37	15♓44	14♓37	2♉47	12°R 3	24°R 6	25♐57	13♓41	20°R53	20♏12	2♊35	n.a.	S 1
M 2	8 34 18	10°22'19	29° 6	7°28	16° 2	15°21	2°54	12♊ 1	24♊ 5	25°59	13°43	20♏41	20° 9	2°41	n.a.	M 2
T 3	8 38 15	11°22'21	11♌53	9°20	16°18	16° 5	3° 0	12° 0	24° 3	26° 1	13°44	20°28	20° 6	2°48	n.a.	T 3
W 4	8 42 11	12°22'21	24°54	11°13	16°32	16°49	3° 7	11°59	24° 2	26° 2	13°45	20°14	20° 3	2°54	n.a.	W 4
T 5	8 46 8	13°22'19	8♍ 8	13° 7	16°43	17°33	3°14	11°57	24° 0	26° 4	13°46	20° 2	20° 0	3° 1	n.a.	T 5
F 6	8 50 4	14°22'15	21°34	15° 2	16°53	18°17	3°21	11°56	23°59	26° 6	13°48	19°52	19°56	3° 8	n.a.	F 6
S 7	8 54 1	15°22'10	5♎ 9	16°58	17° 0	19° 1	3°28	11°56	23°58	26° 7	13°49	19°44	19°53	3°14	n.a.	S 7
S 8	8 57 57	16°22'02	18°54	18°55	17° 4	19°45	3°35	11°55	23°56	26° 9	13°50	19°40	19°50	3°21	n.a.	S 8
M 9	9 1 54	17°21'53	2♏45	20°52	17°R 7	20°29	3°43	11°54	23°55	26°11	13°52	19°38	19°47	3°28	n.a.	M 9
T 10	9 5 50	18°21'42	16°44	22°50	17° 7	21°13	3°50	11°53	23°54	26°12	13°53	19°38	19°44	3°34	n.a.	T 10
W11	9 9 47	19°21'29	0♐50	24°48	17° 4	21°56	3°58	11°53	23°53	26°14	13°54	19°38	19°41	3°41	n.a.	W11
T 12	9 13 44	20°21'15	15° 2	26°47	16°59	22°40	4° 6	11°53	23°51	26°15	13°56	19°36	19°37	3°48	n.a.	T 12
F 13	9 17 40	21°20'58	29°18	28°45	16°52	23°24	4°14	11°52	23°50	26°17	13°57	19°33	19°34	3°54	n.a.	F 13
S 14	9 21 37	22°20'40	13♑36	0♓44	16°42	24° 7	4°22	11°52	23°49	26°18	13°58	19°26	19°31	4° 1	n.a.	S 14
S 15	9 25 33	23°20'20	27°52	2°42	16°29	24°51	4°30	11°D52	23°48	26°20	14° 0	19°17	19°28	4° 8	n.a.	S 15
M16	9 29 30	24°19'58	12♒ 1	4°39	16°15	25°34	4°39	11°52	23°47	26°21	14° 1	19° 6	19°25	4°14	n.a.	M16
T 17	9 33 26	25°19'34	25°57	6°35	15°57	26°18	4°47	11°53	23°47	26°23	14° 2	18°53	19°22	4°21	n.a.	T 17
W18	9 37 23	26°19'08	9♓35	8°30	15°37	27° 1	4°56	11°53	23°46	26°24	14° 4	18°41	19°18	4°28	n.a.	W18
T 19	9 41 19	27°18'39	22°53	10°23	15°15	27°44	5° 5	11°53	23°45	26°25	14° 5	18°30	19°15	4°34	n.a.	T 19
F 20	9 45 16	28°18'08	5♈49	12°13	14°51	28°28	5°13	11°54	23°44	26°27	14° 7	18°21	19°12	4°41	n.a.	F 20
S 21	9 49 13	29°17'35	18°25	14° 1	14°25	29°11	5°22	11°55	23°44	26°28	14° 8	18°15	19° 9	4°48	n.a.	S 21
S 22	9 53 9	0♓17'00	0♉41	15°46	13°56	29°54	5°32	11°55	23°43	26°29	14° 9	18°12	19° 6	4°54	n.a.	S 22
M23	9 57 6	1°16'22	12°44	17°27	13°26	0♈37	5°41	11°56	23°42	26°30	14°11	18°11	19° 2	5° 1	n.a.	M23
T 24	10 1 2	2°15'42	24°36	19° 4	12°54	1°21	5°50	11°57	23°42	26°32	14°12	18°D11	18°59	5° 7	n.a.	T 24
W25	10 4 59	3°14'59	6♊25	20°37	12°20	2° 4	6° 0	11°58	23°41	26°33	14°14	18°R11	18°56	5°14	n.a.	W25
T 26	10 8 55	4°14'14	18°14	22° 5	11°45	2°47	6° 9	12° 0	23°41	26°34	14°15	18°10	18°53	5°21	n.a.	T 26
F 27	10 12 52	5°13'27	0♋11	23°27	11° 9	3°30	6°19	12° 1	23°41	26°35	14°16	18° 7	18°50	5°27	n.a.	F 27
S 28	10 16 48	6♓12'37	12♋18	24♓45	10♓32	4♈13	6♉29	12♊ 2	23♊40	26♐36	14♓18	18♏ 2	18♏47	5♊34	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	18s 7	18n33	4s 9	21s 1	1s59	1s 7	4n58	6s37	0s33	11n49	0s49	21n41	0s49	23n53	0n19	22s53	0n46	21s55	16s50	18s11	18s 0	19n50			n.a.
M 2	17 50	16 0	4 40	20 30	1 57	0 49	5 9	6 19	0 32	11 52	0 48	21 41	0 49	23 53	0 19	22 53	0 46	21 54	16 50	18 8	17 59	19 50			n.a.
T 3	17 34	12 40	4 57	19 58	1 55	0 33	5 20	6 2	0 31	11 54	0 48	21 41	0 49	23 53	0 19	22 53	0 46	21 53	16 49	18 4	17 58	19 51			n.a.
W 4	17 17	8 40	4 59	19 23	1 51	0 18	5 31	5 44	0 30	11 57	0 48	21 41	0 49	23 53	0 19	22 53	0 46	21 53	16 49	18 0	17 57	19 51			n.a.
T 5	17 0	4 12	4 46	18 47	1 48	0 3	5 43	5 26	0 30	11 59	0 48	21 41	0 49	23 53	0 19	22 53	0 46	21 52	16 49	17 57	17 56	19 52			n.a.
F 6	16 42	0s32	4 16	18 9	1 43	0n11	5 54	5 8	0 29	12 2	0 47	21 41	0 48	23 53	0 19	22 53	0 46	21 51	16 49	17 54	17 56	19 52			n.a.
S 7	16 25	5 18	3 32	17 29	1 38	0 24	6 5	4 50	0 28	12 5	0 47	21 41	0 48	23 53	0 19	22 53	0 46	21 51	16 49	17 52	17 55	19 52			n.a.
S 8	16 7	9 52	2 35	16 47	1 33	0 36	6 15	4 31	0 28	12 7	0 47	21 41	0 48	23 53	0 19	22 53	0 46	21 50	16 49	17 51	17 54	19 53			n.a.
M 9	15 48	13 56	1 28	16 4	1 26	0 46	6 26	4 13	0 27	12 10	0 47	21 41	0 48	23 53	0 19	22 53	0 46	21 49	16 48	17 51	17 53	19 53			n.a.
T 10	15 30	17 16	0 15	15 19	1 20	0 56	6 37	3 55	0 26	12 13	0 46	21 41	0 48	23 53	0 19	22 53	0 46	21 49	16 48	17 50	17 52	19 54			n.a.
W11	15 11	19 36	0n59	14 32	1 12	1 5	6 47	3 37	0 25	12 16	0 46	21 41	0 47	23 53	0 19	22 53	0 46	21 48	16 48	17 50	17 51	19 54			n.a.
T 12	14 52	20 42	2 10	13 44	1 4	1 12	6 57	3 19	0 25	12 19	0 46	21 41	0 47	23 53	0 19	22 53	0 46	21 47	16 48	17 50	17 50	19 55			n.a.
F 13	14 33	20 29	3 13	12 54	0 56	1 18	7 7	3 1	0 24	12 22	0 46	21 41	0 47	23 53	0 19	22 53	0 46	21 47	16 48	17 49	17 49	19 55			n.a.
S 14	14 13	18 57	4 4	12 4	0 46	1 23	7 16	2 43	0 23	12 25	0 45	21 42	0 47	23 53	0 19	22 53	0 46	21 46	16 48	17 47	17 49	19 55			n.a.
S 15	13 54	16 15	4 40	11 12	0 37	1 27	7 26	2 25	0 22	12 28	0 45	21 42	0 47	23 53	0 19	22 53	0 46	21 45	16 48	17 45	17 48	19 56			n.a.
M16	13 34	12 37	4 58	10 19	0 26	1 29	7 34	2 7	0 22	12 31	0 45	21 42	0 47	23 53	0 19	22 53	0 46	21 45	16 47	17 42	17 47	19 56			n.a.
T 17	13 13	8 20	4 58	9 26	0 15	1 30	7 43	1 49	0 21	12 34	0 45	21 42	0 46	23 53	0 19	22 53	0 46	21 44	16 47	17 38	17 46	19 57			n.a.
W18	12 53	3 44	4 41	8 32	0 4	1 29	7 50	1 31	0 20	12 37	0 44	21 42	0 46	23 52	0 19	22 53	0 46	21 43	16 47	17 35	17 45	19 57			n.a.
T 19	12 33	0n57	4 9	7 38	0n 8	1 27	7 57	1 12	0 20	12 40	0 44	21 43	0 46	23 52	0 19	22 53	0 46	21 43	16 47	17 32	17 44	19 57			n.a.
F 20	12 12	5 27	3 24	6 45	0 20	1 24	8 4	0 54	0 19	12 43	0 44	21 43	0 46	23 52	0 19	22 53	0 46	21 42	16 47	17 29	17 43	19 58			n.a.
S 21	11 51	9 37	2 31	5 52	0 32	1 19	8 10	0 36	0 18	12 46	0 44	21 43	0 46	23 52	0 19	22 54	0 46	21 42	16 47	17 28	17 42	19 58			n.a.
S 22	11 30	13 16	1 31	4 59	0 45	1 13	8 15	0 18	0 18	12 50	0 44	21 43	0 45	23 52	0 19	22 54	0 46	21 41	16 47	17 27	17 42	19 58			n.a.
M23	11 9	16 18	0 29	4 8	0 58	1 6	8 19	0 0	0 17	12 53	0 43	21 44	0 45	23 52	0 19	22 54	0 46	21 40	16 47	17 26	17 41	19 59			n.a.
T 24	10 47	18 35	0s34	3 18	1 11	0 57	8 23	0n18	0 16	12 56	0 43	21 44	0 45	23 52	0 19	22 54	0 46	21 40	16 47	17 26	17 40	19 59			n.a.
W25	10 26	20 4	1 35	2 29	1 23	0 46	8 26	0 36	0 15	13 0	0 43	21 44	0 45	23 52	0 19	22 54	0 46	21 39	16 47	17 26	17 39	20 0			n.a.
T 26	10 4	20 39	2 33	1 43	1 36	0 35	8 28	0 54	0 15	13 3	0 43	21 45	0 45	23 52	0 19	22 54	0 46	21 38	16 46	17 26	17 38	20 0			n.a.
F 27	9 42	20 19	3 24	0 58	1 48	0 22	8 29	1 11	0 14	13 7	0 42	21 45	0 45	23 52	0 19	22 54	0 46	21 38	16 46	17 25	17 37	20 0			n.a.
S 28	9s20	19n 3	4s 6	0s16	2n 0	0n 8	8n29	1n29	0s13	13n10	0s42	21n45	0s44	23n52	0n19	22s54	0n46	21s37	16s46	17s24	17s36	20n 1			n.a.

Julian Day Number = 1667762.5, Delta T = 03h22m14s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'43, Lahiri = - 5°58'42 Julian Calendar 1 Feb. 147 BCE == Greg. Calendar 29 Jan. 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

MARCH 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 20 45	7♓11'45	24♋41	25♓56	9°R54	4♈56	6♉39	12♊ 4	23°R40	26♐37	14♓19	17°R54	18♏43	5♊41	n.a.	S 1
M 2	10 24 42	8°10'51	7♌22	27° 1	9♓16	5°38	6°49	12° 5	23♊40	26°38	14°21	17♏44	18°40	5°47	n.a.	M 2
T 3	10 28 38	9° 9'54	20°23	28° 0	8°38	6°21	6°59	12° 7	23°40	26°39	14°22	17°33	18°37	5°54	n.a.	T 3
W 4	10 32 35	10° 8'55	3♍42	28°52	8° 0	7° 4	7° 9	12° 9	23°40	26°40	14°24	17°22	18°34	6° 1	n.a.	W 4
T 5	10 36 31	11° 7'54	17°19	29°38	7°22	7°47	7°20	12°11	23°D40	26°41	14°25	17°11	18°31	6° 7	n.a.	T 5
F 6	10 40 28	12° 6'50	1♎10	0♈17	6°45	8°29	7°30	12°13	23°40	26°42	14°27	17° 2	18°27	6°14	n.a.	F 6
S 7	10 44 24	13° 5'45	15°12	0°49	6° 9	9°12	7°41	12°15	23°40	26°43	14°28	16°56	18°24	6°21	n.a.	S 7
S 8	10 48 21	14° 4'38	29°19	1°14	5°34	9°55	7°51	12°18	23°40	26°44	14°29	16°52	18°21	6°27	n.a.	S 8
M 9	10 52 17	15° 3'29	13♏30	1°33	5° 0	10°37	8° 2	12°20	23°40	26°44	14°31	16°D51	18°18	6°34	n.a.	M 9
T 10	10 56 14	16° 2'18	27°40	1°44	4°28	11°20	8°13	12°22	23°40	26°45	14°32	16°51	18°15	6°41	n.a.	T 10
W11	11 0 10	17° 1'05	11♐50	1°R49	3°57	12° 2	8°24	12°25	23°41	26°46	14°34	16°R52	18°12	6°47	n.a.	W11
T 12	11 4 7	17°59'51	25°56	1°47	3°29	12°44	8°35	12°28	23°41	26°47	14°35	16°52	18° 8	6°54	n.a.	T 12
F 13	11 8 4	18°58'35	9♑59	1°39	3° 2	13°27	8°46	12°31	23°41	26°47	14°37	16°50	18° 5	7° 1	n.a.	F 13
S 14	11 12 0	19°57'17	23°57	1°24	2°38	14° 9	8°57	12°33	23°42	26°48	14°38	16°46	18° 2	7° 7	n.a.	S 14
S 15	11 15 57	20°55'57	7♒47	1° 5	2°15	14°51	9° 9	12°36	23°42	26°49	14°40	16°39	17°59	7°14	n.a.	S 15
M16	11 19 53	21°54'35	21°29	0°40	1°55	15°33	9°20	12°40	23°43	26°49	14°41	16°31	17°56	7°21	n.a.	M16
T 17	11 23 50	22°53'12	4♓59	0°10	1°38	16°16	9°31	12°43	23°44	26°50	14°42	16°22	17°53	7°27	n.a.	T 17
W18	11 27 46	23°51'46	18°14	29♓37	1°22	16°58	9°43	12°46	23°44	26°50	14°44	16°12	17°49	7°34	n.a.	W18
T 19	11 31 43	24°50'19	1♈14	29° 0	1°10	17°40	9°55	12°49	23°45	26°51	14°45	16° 4	17°46	7°40	n.a.	T 19
F 20	11 35 39	25°48'49	13°57	28°21	0°59	18°22	10° 6	12°53	23°46	26°51	14°47	15°58	17°43	7°47	n.a.	F 20
S 21	11 39 36	26°47'18	26°23	27°40	0°51	19° 4	10°18	12°56	23°47	26°51	14°48	15°54	17°40	7°54	n.a.	S 21
S 22	11 43 32	27°45'44	8♉36	26°58	0°46	19°46	10°30	13° 0	23°47	26°52	14°50	15°52	17°37	8° 0	n.a.	S 22
M23	11 47 29	28°44'08	20°36	26°16	0°43	20°28	10°42	13° 4	23°48	26°52	14°51	15°D52	17°33	8° 7	n.a.	M23
T 24	11 51 26	29°42'30	2♊28	25°34	0°D42	21°10	10°54	13° 8	23°49	26°53	14°52	15°53	17°30	8°14	n.a.	T 24
W25	11 55 22	0♈40'50	14°17	24°53	0°44	21°51	11° 6	13°12	23°50	26°53	14°54	15°54	17°27	8°20	n.a.	W25
T 26	11 59 19	1°39'08	26° 7	24°15	0°47	22°33	11°18	13°16	23°51	26°53	14°55	15°R55	17°24	8°27	n.a.	T 26
F 27	12 3 15	2°37'24	8♋ 3	23°39	0°54	23°15	11°30	13°20	23°53	26°53	14°57	15°55	17°21	8°34	n.a.	F 27
S 28	12 7 12	3°35'38	20°12	23° 6	1° 2	23°57	11°42	13°24	23°54	26°53	14°58	15°53	17°18	8°40	n.a.	S 28
S 29	12 11 8	4°33'49	2♌36	22°36	1°13	24°38	11°55	13°28	23°55	26°54	14°59	15°50	17°14	8°47	n.a.	S 29
M30	12 15 5	5°31'58	15°21	22°11	1°25	25°20	12° 7	13°33	23°56	26°54	15° 1	15°45	17°11	8°54	n.a.	M30
T 31	12 19 1	6♈30'06	28♌28	21♓50	1♓40	26♈ 1	12♉19	13♊37	23♊58	26♐54	15♓ 2	15♏40	17♏ 8	9♊ 0	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	8s58	16n52	4s38	0n23	2n12	0s 7	8n28	1n47	0s13	13n14	0s42	21n46	0s44	23n52	0n19	22s54	0n46	21s36	16s46	17s22	17s35	20n 1			n.a.
M 2	8 36	13 50	4 58	0 59	2 23	0 23	8 26	2 5	0 12	13 17	0 42	21 46	0 44	23 52	0 19	22 54	0 46	21 36	16 46	17 19	17 35	20 1			n.a.
T 3	8 13	10 5	5 2	1 32	2 33	0 39	8 23	2 23	0 11	13 21	0 42	21 47	0 44	23 52	0 19	22 54	0 46	21 35	16 46	17 16	17 34	20 2			n.a.
W 4	7 51	5 45	4 51	2 2	2 43	0 57	8 19	2 40	0 11	13 24	0 41	21 47	0 44	23 52	0 19	22 54	0 46	21 35	16 46	17 12	17 33	20 2			n.a.
T 5	7 28	1 3	4 22	2 29	2 52	1 15	8 15	2 58	0 10	13 28	0 41	21 48	0 43	23 52	0 19	22 54	0 46	21 34	16 46	17 9	17 32	20 2			n.a.
F 6	7 6	3s48	3 38	2 52	3 0	1 34	8 9	3 16	0 9	13 31	0 41	21 48	0 43	23 52	0 19	22 54	0 46	21 33	16 46	17 7	17 31	20 3			n.a.
S 7	6 43	8 31	2 40	3 11	3 7	1 53	8 3	3 33	0 9	13 35	0 41	21 48	0 43	23 52	0 19	22 54	0 46	21 33	16 46	17 5	17 30	20 3			n.a.
S 8	6 20	12 47	1 32	3 26	3 13	2 13	7 55	3 51	0 8	13 39	0 41	21 49	0 43	23 52	0 19	22 54	0 47	21 32	16 46	17 4	17 29	20 3			n.a.
M 9	5 57	16 21	0 18	3 38	3 17	2 32	7 47	4 8	0 7	13 42	0 41	21 49	0 43	23 52	0 19	22 54	0 47	21 32	16 46	17 4	17 28	20 4			n.a.
T 10	5 34	18 56	0n58	3 46	3 21	2 52	7 39	4 26	0 7	13 46	0 40	21 50	0 43	23 52	0 19	22 54	0 47	21 31	16 46	17 4	17 27	20 4			n.a.
W11	5 11	20 19	2 10	3 49	3 23	3 12	7 29	4 43	0 6	13 50	0 40	21 50	0 42	23 52	0 19	22 54	0 47	21 31	16 46	17 4	17 27	20 4			n.a.
T 12	4 48	20 26	3 13	3 49	3 24	3 31	7 20	5 0	0 5	13 54	0 40	21 51	0 42	23 52	0 19	22 54	0 47	21 30	16 46	17 4	17 26	20 4			n.a.
F 13	4 25	19 15	4 5	3 45	3 23	3 50	7 9	5 18	0 5	13 57	0 40	21 52	0 42	23 52	0 19	22 54	0 47	21 29	16 46	17 3	17 25	20 5			n.a.
S 14	4 1	16 56	4 42	3 37	3 20	4 9	6 58	5 35	0 4	14 1	0 40	21 52	0 42	23 52	0 19	22 54	0 47	21 29	16 46	17 2	17 24	20 5			n.a.
S 15	3 38	13 40	5 2	3 26	3 17	4 28	6 47	5 52	0 3	14 5	0 39	21 53	0 42	23 52	0 19	22 54	0 47	21 28	16 46	17 0	17 23	20 5			n.a.
M16	3 15	9 42	5 5	3 11	3 11	4 46	6 35	6 9	0 3	14 9	0 39	21 53	0 42	23 52	0 19	22 54	0 47	21 28	16 46	16 58	17 22	20 6			n.a.
T 17	2 51	5 18	4 50	2 53	3 4	5 3	6 23	6 26	0 2	14 13	0 39	21 54	0 41	23 52	0 19	22 54	0 47	21 27	16 46	16 55	17 21	20 6			n.a.
W18	2 28	0 43	4 20	2 32	2 56	5 20	6 11	6 43	0 1	14 17	0 39	21 54	0 41	23 52	0 19	22 54	0 47	21 27	16 46	16 52	17 20	20 6			n.a.
T 19	2 4	3n48	3 37	2 8	2 46	5 36	5 58	7 0	0 1	14 20	0 39	21 55	0 41	23 52	0 19	22 54	0 47	21 26	16 46	16 50	17 19	20 6			n.a.
F 20	1 41	8 4	2 43	1 42	2 35	5 52	5 45	7 17	0n 0	14 24	0 39	21 56	0 41	23 52	0 19	22 54	0 47	21 26	16 47	16 48	17 18	20 7			n.a.
S 21	1 17	11 54	1 43	1 14	2 23	6 7	5 33	7 33	0 1	14 28	0 38	21 56	0 41	23 52	0 19	22 54	0 47	21 25	16 47	16 47	17 18	20 7			n.a.
S 22	0 54	15 9	0 39	0 45	2 9	6 21	5 20	7 50	0 1	14 32	0 38	21 57	0 41	23 52	0 19	22 54	0 47	21 25	16 47	16 46	17 17	20 7			n.a.
M23	0 31	17 41	0s26	0 15	1 55	6 34	5 7	8 7	0 2	14 36	0 38	21 57	0 40	23 52	0 18	22 54	0 47	21 24	16 47	16 46	17 16	20 7			n.a.
T 24	0 7	19 26	1 29	0s16	1 40	6 46	4 54	8 23	0 3	14 40	0 38	21 58	0 40	23 52	0 18	22 54	0 47	21 24	16 47	16 47	17 15	20 8			n.a.
W25	0n16	20 20	2 28	0 46	1 24	6 58	4 41	8 40	0 3	14 44	0 38	21 59	0 40	23 52	0 18	22 54	0 47	21 23	16 47	16 47	17 14	20 8			n.a.
T 26	0 40	20 18	3 21	1 17	1 8	7 8	4 28	8 56	0 4	14 48	0 38	21 59	0 40	23 52	0 18	22 54	0 47	21 23	16 47	16 47	17 13	20 8			n.a.
F 27	1 3	19 23	4 5	1 46	0 51	7 18	4 16	9 12	0 4	14 52	0 37	22 0	0 40	23 53	0 18	22 54	0 47	21 22	16 47	16 47	17 12	20 8			n.a.
S 28	1 27	17 33	4 40	2 15	0 34	7 27	4 3	9 28	0 5	14 56	0 37	22 1	0 40	23 53	0 18	22 54	0 47	21 22	16 47	16 47	17 11	20 9			n.a.
S 29	1 50	14 54	5 2	2 42	0 18	7 35	3 50	9 44	0 6	15 0	0 37	22 1	0 39	23 53	0 18	22 54	0 47	21 21	16 47	16 46	17 10	20 9			n.a.
M30	2 13	11 28	5 10	3 7	0 1	7 42	3 38	10 0	0 6	15 4	0 37	22 2	0 39	23 53	0 18	22 54	0 47	21 21	16 47	16 45	17 9	20 9			n.a.
T 31	2n37	7n25	5s 3	3s30	0s15	7s48	3n26	10n16	0n 7	15n 8	0s37	22n 3	0s39	23n53	0n18	22s54	0n47	21s21	16s48	16s43	17s 9	20n 9			n.a.

Julian Day Number = 1667790.5, Delta T = 03h22m13s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'39, Lahiri = - 5°58'39 Julian Calendar 1 March 147 BCE == Greg. Calendar 26 Feb. 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

APRIL 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 22 58	7♈28'11	11♍58	21°R33	1♓57	26♈43	12♉32	13♊42	23♊59	26♐54	15♓ 3	15°R33	17♏ 5	9♊ 7	n.a.	W 1
T 2	12 26 55	8°26'14	25°51	21♓21	2°15	27°24	12°44	13°46	24° 0	26°R54	15° 5	15♏27	17° 2	9°14	n.a.	T 2
F 3	12 30 51	9°24'16	10♎ 3	21°14	2°36	28° 6	12°57	13°51	24° 2	26°54	15° 6	15°23	16°59	9°20	n.a.	F 3
S 4	12 34 48	10°22'15	24°28	21°D12	2°58	28°47	13°10	13°56	24° 3	26°54	15° 8	15°20	16°55	9°27	n.a.	S 4
S 5	12 38 44	11°20'13	9♏ 2	21°14	3°22	29°29	13°22	14° 1	24° 5	26°54	15° 9	15°D18	16°52	9°34	n.a.	S 5
M 6	12 42 41	12°18'10	23°38	21°22	3°47	0♉10	13°35	14° 6	24° 7	26°54	15°10	15°18	16°49	9°40	n.a.	M 6
T 7	12 46 37	13°16'05	8♐10	21°34	4°14	0°51	13°48	14°11	24° 8	26°53	15°11	15°19	16°46	9°47	n.a.	T 7
W 8	12 50 34	14°13'59	22°35	21°50	4°43	1°32	14° 1	14°16	24°10	26°53	15°13	15°21	16°43	9°54	n.a.	W 8
T 9	12 54 30	15°11'52	6♑49	22°11	5°14	2°14	14°14	14°21	24°12	26°53	15°14	15°22	16°39	10° 0	n.a.	T 9
F 10	12 58 27	16° 9'43	20°50	22°36	5°45	2°55	14°26	14°26	24°14	26°53	15°15	15°R22	16°36	10° 7	n.a.	F 10
S 11	13 2 24	17° 7'33	4♒38	23° 6	6°18	3°36	14°39	14°32	24°15	26°53	15°17	15°21	16°33	10°14	n.a.	S 11
S 12	13 6 20	18° 5'22	18°12	23°40	6°53	4°17	14°52	14°37	24°17	26°52	15°18	15°19	16°30	10°20	n.a.	S 12
M13	13 10 17	19° 3'09	1♓32	24°17	7°28	4°58	15° 6	14°43	24°19	26°52	15°19	15°15	16°27	10°27	n.a.	M13
T 14	13 14 13	20° 0'55	14°38	24°59	8° 5	5°39	15°19	14°48	24°21	26°52	15°20	15°11	16°24	10°34	n.a.	T 14
W15	13 18 10	20°58'40	27°30	25°44	8°43	6°20	15°32	14°54	24°23	26°51	15°22	15° 8	16°20	10°40	n.a.	W15
T 16	13 22 6	21°56'23	10♈ 9	26°33	9°23	7° 1	15°45	14°59	24°25	26°51	15°23	15° 4	16°17	10°47	n.a.	T 16
F 17	13 26 3	22°54'05	22°34	27°25	10° 3	7°41	15°58	15° 5	24°27	26°50	15°24	15° 2	16°14	10°54	n.a.	F 17
S 18	13 29 59	23°51'46	4♉48	28°20	10°44	8°22	16°11	15°11	24°30	26°50	15°25	15° 0	16°11	11° 0	n.a.	S 18
S 19	13 33 56	24°49'25	16°52	29°19	11°26	9° 3	16°25	15°17	24°32	26°49	15°26	15°D 0	16° 8	11° 7	n.a.	S 19
M20	13 37 52	25°47'02	28°47	0♈21	12°10	9°44	16°38	15°23	24°34	26°49	15°27	15° 0	16° 4	11°13	n.a.	M20
T 21	13 41 49	26°44'39	10♊38	1°25	12°54	10°25	16°51	15°29	24°36	26°48	15°29	15° 2	16° 1	11°20	n.a.	T 21
W22	13 45 46	27°42'13	22°26	2°33	13°39	11° 5	17° 5	15°35	24°39	26°48	15°30	15° 3	15°58	11°27	n.a.	W22
T 23	13 49 42	28°39'47	4♋16	3°44	14°25	11°46	17°18	15°41	24°41	26°47	15°31	15° 5	15°55	11°33	n.a.	T 23
F 24	13 53 39	29°37'19	16°12	4°57	15°11	12°26	17°32	15°47	24°43	26°46	15°32	15° 6	15°52	11°40	n.a.	F 24
S 25	13 57 35	0♉34'49	28°20	6°13	15°59	13° 7	17°45	15°53	24°46	26°46	15°33	15°R 6	15°49	11°47	n.a.	S 25
S 26	14 1 32	1°32'18	10♌43	7°32	16°47	13°47	17°59	16° 0	24°48	26°45	15°34	15° 6	15°45	11°53	n.a.	S 26
M27	14 5 28	2°29'45	23°25	8°53	17°36	14°28	18°12	16° 6	24°51	26°44	15°35	15° 5	15°42	12° 0	n.a.	M27
T 28	14 9 25	3°27'11	6♍31	10°17	18°26	15° 8	18°26	16°12	24°53	26°43	15°36	15° 4	15°39	12° 7	n.a.	T 28
W29	14 13 21	4°24'36	20° 3	11°43	19°16	15°49	18°39	16°19	24°56	26°42	15°37	15° 3	15°36	12°13	n.a.	W29
T 30	14 17 18	5♉21'59	4♎ 0	13♈12	20♓ 7	16♉29	18♉53	16♊25	24♊59	26♐42	15♓38	15♏ 1	15♏33	12♊20	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n 0	2n52	4s38	3s51	0s30	7s53	3n14	10n32	0n 8	15n12	0s37	22n 4	0s39	23n53	0n18	22s54	0n47	21s20	16s48	16s41	17s 8	20n 9		n.a.
T 2	3 23	1s57	3 57	4 9	0 45	7 58	3 2	10 48	0 8	15 16	0 36	22 4	0 39	23 53	0 18	22 54	0 47	21 20	16 48	16 39	17 7	20 10		n.a.
F 3	3 46	6 47	3 0	4 26	1 0	8 1	2 51	11 3	0 9	15 20	0 36	22 5	0 39	23 53	0 18	22 54	0 47	21 19	16 48	16 38	17 6	20 10		n.a.
S 4	4 9	11 19	1 51	4 39	1 14	8 4	2 39	11 19	0 9	15 24	0 36	22 6	0 38	23 53	0 18	22 54	0 47	21 19	16 48	16 37	17 5	20 10		n.a.
S 5	4 32	15 13	0 34	4 50	1 27	8 5	2 28	11 34	0 10	15 28	0 36	22 6	0 38	23 53	0 18	22 54	0 47	21 19	16 48	16 37	17 4	20 10		n.a.
M 6	4 55	18 10	0n45	4 59	1 39	8 6	2 17	11 49	0 11	15 32	0 36	22 7	0 38	23 53	0 18	22 54	0 47	21 18	16 48	16 37	17 3	20 10		n.a.
T 7	5 18	19 55	2 2	5 4	1 50	8 6	2 6	12 5	0 11	15 36	0 36	22 8	0 38	23 53	0 18	22 54	0 47	21 18	16 49	16 37	17 2	20 11		n.a.
W 8	5 40	20 20	3 10	5 8	2 1	8 6	1 56	12 20	0 12	15 40	0 36	22 9	0 38	23 53	0 18	22 53	0 47	21 17	16 49	16 37	17 1	20 11		n.a.
T 9	6 3	19 27	4 6	5 8	2 11	8 4	1 45	12 35	0 12	15 44	0 35	22 9	0 38	23 53	0 18	22 53	0 47	21 17	16 49	16 38	17 0	20 11		n.a.
F 10	6 26	17 22	4 46	5 6	2 20	8 2	1 35	12 49	0 13	15 48	0 35	22 10	0 38	23 53	0 18	22 53	0 47	21 17	16 49	16 38	16 59	20 11		n.a.
S 11	6 48	14 20	5 8	5 2	2 28	7 59	1 25	13 4	0 14	15 52	0 35	22 11	0 37	23 53	0 18	22 53	0 47	21 16	16 49	16 37	16 58	20 11		n.a.
S 12	7 10	10 35	5 13	4 55	2 36	7 55	1 16	13 19	0 14	15 56	0 35	22 12	0 37	23 54	0 18	22 53	0 47	21 16	16 50	16 37	16 58	20 11		n.a.
M13	7 33	6 22	5 1	4 46	2 42	7 50	1 6	13 33	0 15	16 0	0 35	22 13	0 37	23 54	0 18	22 53	0 47	21 16	16 50	16 36	16 57	20 12		n.a.
T 14	7 55	1 55	4 34	4 35	2 48	7 45	0 57	13 48	0 15	16 4	0 35	22 13	0 37	23 54	0 18	22 53	0 47	21 15	16 50	16 35	16 56	20 12		n.a.
W15	8 17	2n32	3 52	4 21	2 53	7 39	0 48	14 2	0 16	16 8	0 35	22 14	0 37	23 54	0 18	22 53	0 47	21 15	16 50	16 33	16 55	20 12		n.a.
T 16	8 38	6 49	3 0	4 5	2 57	7 32	0 39	14 16	0 17	16 11	0 34	22 15	0 37	23 54	0 18	22 53	0 47	21 15	16 50	16 32	16 54	20 12		n.a.
F 17	9 0	10 44	2 1	3 47	3 0	7 25	0 31	14 30	0 17	16 15	0 34	22 16	0 37	23 54	0 18	22 53	0 47	21 14	16 51	16 32	16 53	20 12		n.a.
S 18	9 22	14 9	0 56	3 27	3 3	7 17	0 23	14 44	0 18	16 19	0 34	22 16	0 36	23 54	0 18	22 53	0 47	21 14	16 51	16 31	16 52	20 12		n.a.
S 19	9 43	16 54	0s10	3 6	3 5	7 8	0 15	14 58	0 18	16 23	0 34	22 17	0 36	23 54	0 18	22 53	0 47	21 14	16 51	16 31	16 51	20 12		n.a.
M20	10 4	18 53	1 16	2 42	3 6	6 58	0 7	15 11	0 19	16 27	0 34	22 18	0 36	23 54	0 18	22 53	0 47	21 14	16 51	16 31	16 50	20 13		n.a.
T 21	10 26	20 2	2 17	2 16	3 6	6 48	0s 1	15 25	0 19	16 31	0 34	22 19	0 36	23 54	0 18	22 53	0 47	21 13	16 51	16 32	16 49	20 13		n.a.
W22	10 46	20 17	3 13	1 49	3 6	6 38	0 8	15 38	0 20	16 35	0 34	22 20	0 36	23 54	0 18	22 53	0 47	21 13	16 52	16 32	16 48	20 13		n.a.
T 23	11 7	19 39	4 0	1 19	3 5	6 26	0 16	15 52	0 20	16 39	0 34	22 20	0 36	23 54	0 18	22 53	0 47	21 13	16 52	16 33	16 47	20 13		n.a.
F 24	11 28	18 7	4 38	0 49	3 3	6 15	0 22	16 5	0 21	16 43	0 33	22 21	0 36	23 55	0 18	22 53	0 47	21 13	16 52	16 33	16 46	20 13		n.a.
S 25	11 48	15 47	5 4	0 16	3 1	6 2	0 29	16 18	0 22	16 47	0 33	22 22	0 35	23 55	0 18	22 53	0 47	21 13	16 52	16 33	16 46	20 13		n.a.
S 26	12 9	12 41	5 16	0n18	2 58	5 49	0 36	16 31	0 22	16 51	0 33	22 23	0 35	23 55	0 18	22 53	0 47	21 12	16 53	16 33	16 45	20 13		n.a.
M27	12 29	8 56	5 14	0 54	2 54	5 36	0 42	16 43	0 23	16 55	0 33	22 24	0 35	23 55	0 18	22 53	0 47	21 12	16 53	16 33	16 44	20 13		n.a.
T 28	12 48	4 39	4 55	1 31	2 50	5 22	0 48	16 56	0 23	16 59	0 33	22 24	0 35	23 55	0 18	22 53	0 47	21 12	16 53	16 32	16 43	20 13		n.a.
W29	13 8	0 1	4 20	2 9	2 45	5 8	0 54	17 8	0 24	17 3	0 33	22 25	0 35	23 55	0 18	22 53	0 47	21 12	16 53	16 32	16 42	20 13		n.a.
T 30	13n28	4s47	3s28	2n49	2s40	4s53	1s 0	17n21	0n24	17n 7	0s33	22n26	0s35	23n55	0n18	22s53	0n47	21s12	16s54	16s32	16s41	20n14		n.a.

Julian Day Number = 1667821.5, Delta T = 03h22m12s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'35, Lahiri = - 5°58'34 Julian Calendar 1 Apr. 147 BCE == Greg. Calendar 29 March 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

MAY 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 21 15	6♉19'21	18♎21	14♈44	20♓59	17♉ 9	19♉ 6	16♊32	25♊ 1	26°R41	15♓39	15°R 0	15♏30	12♊27	n.a.	F 1
S 2	14 25 11	7°16'42	3♏ 2	16°18	21°51	17°50	19°20	16°39	25° 4	26♐40	15°40	15♏ 0	15°26	12°33	n.a.	S 2
S 3	14 29 8	8°14'02	17°55	17°55	22°44	18°30	19°34	16°45	25° 7	26°39	15°41	15°D 0	15°23	12°40	n.a.	S 3
M 4	14 33 4	9°11'21	2♐54	19°34	23°37	19°10	19°47	16°52	25°10	26°38	15°42	15° 0	15°20	12°47	n.a.	M 4
T 5	14 37 1	10° 8'40	17°50	21°15	24°31	19°50	20° 1	16°59	25°12	26°37	15°43	15° 0	15°17	12°53	n.a.	T 5
W 6	14 40 57	11° 5'57	2♑35	22°59	25°26	20°30	20°15	17° 6	25°15	26°36	15°44	15° 1	15°14	13° 0	n.a.	W 6
T 7	14 44 54	12° 3'14	17° 5	24°46	26°21	21°11	20°28	17°12	25°18	26°35	15°45	15° 1	15°10	13° 7	n.a.	T 7
F 8	14 48 50	13° 0'31	1♒15	26°35	27°16	21°51	20°42	17°19	25°21	26°34	15°46	15° 1	15° 7	13°13	n.a.	F 8
S 9	14 52 47	13°57'47	15° 4	28°26	28°12	22°31	20°56	17°26	25°24	26°33	15°47	15°R 1	15° 4	13°20	n.a.	S 9
S 10	14 56 44	14°55'02	28°32	0♉20	29° 8	23°11	21° 9	17°33	25°27	26°32	15°48	15°D 1	15° 1	13°27	n.a.	S 10
M11	15 0 40	15°52'17	11♓40	2°15	0♈ 5	23°51	21°23	17°40	25°30	26°31	15°48	15° 1	14°58	13°33	n.a.	M11
T 12	15 4 37	16°49'32	24°30	4°14	1° 3	24°31	21°37	17°47	25°33	26°30	15°49	15° 1	14°55	13°40	n.a.	T 12
W13	15 8 33	17°46'46	7♈ 4	6°14	2° 0	25°11	21°51	17°54	25°36	26°28	15°50	15° 2	14°51	13°47	n.a.	W13
T 14	15 12 30	18°44'00	19°25	8°16	2°58	25°50	22° 4	18° 2	25°39	26°27	15°51	15° 2	14°48	13°53	n.a.	T 14
F 15	15 16 26	19°41'13	1♉35	10°20	3°57	26°30	22°18	18° 9	25°42	26°26	15°51	15° 2	14°45	14° 0	n.a.	F 15
S 16	15 20 23	20°38'25	13°37	12°26	4°56	27°10	22°32	18°16	25°45	26°25	15°52	15°R 2	14°42	14° 7	n.a.	S 16
S 17	15 24 19	21°35'38	25°32	14°34	5°55	27°50	22°46	18°23	25°48	26°24	15°53	15° 2	14°39	14°13	n.a.	S 17
M18	15 28 16	22°32'49	7♊22	16°42	6°55	28°30	22°59	18°31	25°52	26°22	15°54	15° 2	14°36	14°20	n.a.	M18
T 19	15 32 13	23°30'01	19°11	18°52	7°54	29° 9	23°13	18°38	25°55	26°21	15°54	15° 1	14°32	14°27	n.a.	T 19
W20	15 36 9	24°27'11	1♋ 0	21° 3	8°55	29°49	23°27	18°45	25°58	26°20	15°55	15° 0	14°29	14°33	n.a.	W20
T 21	15 40 6	25°24'21	12°51	23°14	9°55	0♊29	23°41	18°53	26° 1	26°18	15°56	14°58	14°26	14°40	n.a.	T 21
F 22	15 44 2	26°21'31	24°49	25°25	10°56	1° 8	23°54	19° 0	26° 4	26°17	15°56	14°57	14°23	14°47	n.a.	F 22
S 23	15 47 59	27°18'40	6♌57	27°37	11°57	1°48	24° 8	19° 7	26° 8	26°16	15°57	14°56	14°20	14°53	n.a.	S 23
S 24	15 51 55	28°15'48	19°19	29°48	12°58	2°28	24°22	19°15	26°11	26°14	15°57	14°55	14°16	15° 0	n.a.	S 24
M25	15 55 52	29°12'56	1♍58	1♊58	14° 0	3° 7	24°36	19°22	26°14	26°13	15°58	14°D55	14°13	15° 7	n.a.	M25
T 26	15 59 49	0♊10'03	14°59	4° 8	15° 2	3°47	24°49	19°30	26°18	26°12	15°58	14°55	14°10	15°13	n.a.	T 26
W27	16 3 45	1° 7'09	28°25	6°17	16° 4	4°26	25° 3	19°37	26°21	26°10	15°59	14°56	14° 7	15°20	n.a.	W27
T 28	16 7 42	2° 4'16	12♎17	8°24	17° 7	5° 5	25°17	19°45	26°25	26° 9	15°59	14°58	14° 4	15°27	n.a.	T 28
F 29	16 11 38	3° 1'21	26°35	10°30	18° 9	5°45	25°30	19°53	26°28	26° 7	16° 0	14°59	14° 1	15°33	n.a.	F 29
S 30	16 15 35	3°58'27	11♏17	12°35	19°12	6°24	25°44	20° 0	26°31	26° 6	16° 0	14°R59	13°57	15°40	n.a.	S 30
S 31	16 19 31	4♊55'32	26♏17	14♊38	20♈15	7♊ 4	25♉58	20♊ 8	26♊35	26♐ 4	16♓ 1	14♏59	13♏54	15♊47	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n47	9s28	2s23	3n30	2s34	4s37	1s 6	17n33	0n25	17n10	0s33	22n27	0s35	23n55	0n18	22s53	0n47	21s12	16s54	16s31	16s40	20n14		n.a.
S 2	14 6	13 42	1 6	4 13	2 27	4 21	1 11	17 45	0 25	17 14	0 32	22 28	0 35	23 55	0 18	22 53	0 47	21 11	16 54	16 31	16 39	20 14		n.a.
S 3	14 25	17 6	0n16	4 57	2 20	4 5	1 16	17 57	0 26	17 18	0 32	22 28	0 34	23 55	0 18	22 53	0 47	21 11	16 55	16 31	16 38	20 14		n.a.
M 4	14 43	19 23	1 38	5 41	2 13	3 48	1 21	18 8	0 26	17 22	0 32	22 29	0 34	23 56	0 18	22 53	0 47	21 11	16 55	16 31	16 37	20 14		n.a.
T 5	15 2	20 17	2 53	6 27	2 5	3 31	1 26	18 20	0 27	17 26	0 32	22 30	0 34	23 56	0 18	22 53	0 47	21 11	16 55	16 31	16 36	20 14		n.a.
W 6	15 20	19 46	3 55	7 14	1 56	3 13	1 31	18 31	0 28	17 30	0 32	22 31	0 34	23 56	0 18	22 53	0 47	21 11	16 55	16 31	16 35	20 14		n.a.
T 7	15 38	17 58	4 41	8 2	1 47	2 55	1 35	18 42	0 28	17 33	0 32	22 32	0 34	23 56	0 18	22 53	0 47	21 11	16 56	16 32	16 34	20 14		n.a.
F 8	15 55	15 5	5 9	8 50	1 38	2 37	1 39	18 54	0 29	17 37	0 32	22 32	0 34	23 56	0 18	22 53	0 47	21 11	16 56	16 32	16 33	20 14		n.a.
S 9	16 13	11 26	5 18	9 40	1 29	2 18	1 43	19 5	0 29	17 41	0 32	22 33	0 34	23 56	0 18	22 53	0 47	21 11	16 56	16 32	16 32	20 14		n.a.
S 10	16 30	7 17	5 9	10 29	1 19	1 59	1 47	19 15	0 30	17 45	0 32	22 34	0 34	23 56	0 18	22 53	0 47	21 11	16 57	16 32	16 31	20 14		n.a.
M11	16 47	2 54	4 44	11 20	1 8	1 40	1 51	19 26	0 30	17 48	0 32	22 35	0 33	23 56	0 18	22 53	0 47	21 11	16 57	16 32	16 31	20 14		n.a.
T 12	17 3	1n32	4 6	12 10	0 58	1 20	1 55	19 36	0 31	17 52	0 31	22 35	0 33	23 56	0 18	22 53	0 47	21 11	16 57	16 32	16 30	20 14		n.a.
W13	17 20	5 50	3 16	13 1	0 47	1 0	1 58	19 47	0 31	17 56	0 31	22 36	0 33	23 56	0 18	22 52	0 47	21 10	16 58	16 32	16 29	20 14		n.a.
T 14	17 36	9 48	2 18	13 51	0 36	0 39	2 1	19 57	0 32	17 59	0 31	22 37	0 33	23 57	0 18	22 52	0 47	21 10	16 58	16 32	16 28	20 14		n.a.
F 15	17 51	13 19	1 14	14 41	0 25	0 19	2 4	20 7	0 32	18 3	0 31	22 38	0 33	23 57	0 18	22 52	0 47	21 10	16 58	16 32	16 27	20 14		n.a.
S 16	18 7	16 14	0 8	15 31	0 14	0n 2	2 7	20 17	0 33	18 7	0 31	22 38	0 33	23 57	0 18	22 52	0 47	21 10	16 59	16 32	16 26	20 14		n.a.
S 17	18 22	18 25	0s58	16 20	0 3	0 23	2 10	20 26	0 33	18 10	0 31	22 39	0 33	23 57	0 18	22 52	0 47	21 10	16 59	16 32	16 25	20 14		n.a.
M18	18 37	19 48	2 1	17 8	0n 7	0 45	2 13	20 36	0 34	18 14	0 31	22 40	0 33	23 57	0 18	22 52	0 47	21 11	16 59	16 32	16 24	20 14		n.a.
T 19	18 52	20 18	2 58	17 55	0 18	1 6	2 15	20 45	0 34	18 18	0 31	22 41	0 32	23 57	0 18	22 52	0 47	21 11	17 0	16 31	16 23	20 14		n.a.
W20	19 6	19 54	3 48	18 41	0 28	1 28	2 18	20 54	0 35	18 21	0 31	22 41	0 32	23 57	0 18	22 52	0 47	21 11	17 0	16 31	16 22	20 14		n.a.
T 21	19 20	18 38	4 29	19 24	0 38	1 50	2 20	21 3	0 35	18 25	0 31	22 42	0 32	23 57	0 18	22 52	0 47	21 11	17 0	16 31	16 21	20 14		n.a.
F 22	19 34	16 32	4 58	20 6	0 48	2 12	2 22	21 12	0 36	18 28	0 30	22 43	0 32	23 57	0 18	22 52	0 47	21 11	17 1	16 30	16 20	20 14		n.a.
S 23	19 47	13 41	5 14	20 46	0 57	2 35	2 24	21 21	0 36	18 32	0 30	22 44	0 32	23 57	0 18	22 52	0 47	21 11	17 1	16 30	16 19	20 14		n.a.
S 24	20 0	10 12	5 16	21 24	1 5	2 57	2 25	21 29	0 37	18 35	0 30	22 44	0 32	23 58	0 18	22 52	0 47	21 11	17 1	16 30	16 18	20 14		n.a.
M25	20 13	6 11	5 3	21 59	1 13	3 20	2 27	21 37	0 37	18 39	0 30	22 45	0 32	23 58	0 18	22 52	0 47	21 11	17 2	16 30	16 17	20 14		n.a.
T 26	20 25	1 46	4 34	22 32	1 21	3 43	2 28	21 46	0 37	18 42	0 30	22 46	0 32	23 58	0 18	22 52	0 47	21 11	17 2	16 30	16 16	20 14		n.a.
W27	20 37	2s52	3 50	23 2	1 28	4 5	2 30	21 53	0 38	18 46	0 30	22 46	0 32	23 58	0 18	22 52	0 47	21 11	17 2	16 30	16 15	20 14		n.a.
T 28	20 49	7 32	2 51	23 30	1 34	4 29	2 31	22 1	0 38	18 49	0 30	22 47	0 32	23 58	0 18	22 52	0 47	21 11	17 3	16 30	16 14	20 14		n.a.
F 29	21 0	11 55	1 40	23 55	1 39	4 52	2 32	22 9	0 39	18 52	0 30	22 48	0 31	23 58	0 18	22 52	0 47	21 11	17 3	16 31	16 13	20 14		n.a.
S 30	21 11	15 43	0 20	24 17	1 44	5 15	2 33	22 16	0 39	18 56	0 30	22 49	0 31	23 58	0 18	22 52	0 47	21 12	17 3	16 31	16 12	20 14		n.a.
S 31	21n22	18s32	1n 2	24n36	1n48	5n38	2s34	22n23	0n40	18n59	0s30	22n49	0s31	23n58	0n18	22s52	0n47	21s12	17s 4	16s31	16s11	20n14		n.a.

Julian Day Number = 1667851.5, Delta T = 03h22m11s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'31, Lahiri = - 5°58'30 Julian Calendar 1 May 147 BCE == Greg. Calendar 28 Apr. 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

JUNE 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 23 28	5♊52'38	11♐28	16♊39	21♈19	7♊43	26♉11	20♊15	26♊38	26°R 3	16♓ 1	14°R58	13♏51	15♊53	n.a.	M 1
T 2	16 27 24	6°49'43	26°40	18°39	22°23	8°22	26°25	20°23	26°42	26♐ 1	16° 2	14♏56	13°48	16° 0	n.a.	T 2
W 3	16 31 21	7°46'49	11♑44	20°36	23°26	9° 2	26°38	20°31	26°45	26° 0	16° 2	14°53	13°45	16° 7	n.a.	W 3
T 4	16 35 18	8°43'55	26°30	22°32	24°31	9°41	26°52	20°39	26°49	25°58	16° 2	14°50	13°41	16°13	n.a.	T 4
F 5	16 39 14	9°41'01	10♒53	24°26	25°35	10°20	27° 6	20°46	26°52	25°57	16° 3	14°47	13°38	16°20	n.a.	F 5
S 6	16 43 11	10°38'07	24°50	26°18	26°39	10°59	27°19	20°54	26°56	25°55	16° 3	14°45	13°35	16°27	n.a.	S 6
S 7	16 47 7	11°35'14	8♓20	28° 7	27°44	11°38	27°33	21° 2	26°59	25°54	16° 3	14°D44	13°32	16°33	n.a.	S 7
M 8	16 51 4	12°32'21	21°25	29°55	28°49	12°18	27°46	21° 9	27° 3	25°52	16° 4	14°45	13°29	16°40	n.a.	M 8
T 9	16 55 0	13°29'29	4♈ 7	1♋41	29°54	12°57	28° 0	21°17	27° 7	25°51	16° 4	14°46	13°26	16°47	n.a.	T 9
W10	16 58 57	14°26'37	16°32	3°25	0♉59	13°36	28°13	21°25	27°10	25°49	16° 4	14°47	13°22	16°53	n.a.	W10
T 11	17 2 53	15°23'46	28°42	5° 7	2° 5	14°15	28°27	21°33	27°14	25°47	16° 4	14°49	13°19	17° 0	n.a.	T 11
F 12	17 6 50	16°20'55	10♉42	6°46	3°10	14°54	28°40	21°41	27°17	25°46	16° 4	14°R50	13°16	17° 7	n.a.	F 12
S 13	17 10 47	17°18'05	22°35	8°24	4°16	15°33	28°53	21°48	27°21	25°44	16° 5	14°50	13°13	17°13	n.a.	S 13
S 14	17 14 43	18°15'16	4♊24	10° 0	5°22	16°12	29° 7	21°56	27°25	25°43	16° 5	14°48	13°10	17°20	n.a.	S 14
M15	17 18 40	19°12'26	16°13	11°34	6°28	16°51	29°20	22° 4	27°28	25°41	16° 5	14°44	13° 7	17°27	n.a.	M15
T 16	17 22 36	20° 9'38	28° 2	13° 6	7°35	17°30	29°33	22°12	27°32	25°39	16° 5	14°40	13° 3	17°33	n.a.	T 16
W17	17 26 33	21° 6'50	9♋54	14°36	8°41	18° 9	29°46	22°20	27°36	25°38	16° 5	14°33	13° 0	17°40	n.a.	W17
T 18	17 30 29	22° 4'02	21°50	16° 3	9°48	18°48	29°59	22°27	27°39	25°36	16° 5	14°27	12°57	17°47	n.a.	T 18
F 19	17 34 26	23° 1'15	3♌54	17°29	10°55	19°27	0♊13	22°35	27°43	25°34	16° 5	14°20	12°54	17°53	n.a.	F 19
S 20	17 38 23	23°58'28	16° 7	18°53	12° 1	20° 6	0°26	22°43	27°46	25°33	16°R 5	14°14	12°51	18° 0	n.a.	S 20
S 21	17 42 19	24°55'41	28°32	20°14	13° 8	20°44	0°39	22°51	27°50	25°31	16° 5	14°10	12°47	18° 7	n.a.	S 21
M22	17 46 16	25°52'55	11♍11	21°33	14°16	21°23	0°52	22°59	27°54	25°30	16° 5	14° 7	12°44	18°13	n.a.	M22
T 23	17 50 12	26°50'09	24° 9	22°50	15°23	22° 2	1° 5	23° 6	27°57	25°28	16° 5	14°D 6	12°41	18°20	n.a.	T 23
W24	17 54 9	27°47'24	7♎27	24° 5	16°30	22°41	1°18	23°14	28° 1	25°26	16° 5	14° 6	12°38	18°27	n.a.	W24
T 25	17 58 5	28°44'39	21°10	25°17	17°38	23°19	1°31	23°22	28° 5	25°25	16° 5	14° 7	12°35	18°33	n.a.	T 25
F 26	18 2 2	29°41'55	5♏17	26°27	18°46	23°58	1°44	23°30	28° 8	25°23	16° 5	14° 8	12°32	18°40	n.a.	F 26
S 27	18 5 58	0♋39'11	19°49	27°35	19°54	24°37	1°57	23°38	28°12	25°21	16° 4	14°R 8	12°28	18°47	n.a.	S 27
S 28	18 9 55	1°36'28	4♐42	28°40	21° 2	25°16	2° 9	23°45	28°16	25°20	16° 4	14° 7	12°25	18°53	n.a.	S 28
M29	18 13 52	2°33'46	19°50	29°42	22°10	25°54	2°22	23°53	28°19	25°18	16° 4	14° 3	12°22	19° 0	n.a.	M29
T 30	18 17 48	3♋31'04	5♑ 4	0♌42	23♉18	26♊33	2♊35	24♊ 1	28♊23	25♐17	16♓ 4	13♏58	12♏19	19♊ 7	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n32	20s 5	2n21	24n53	1n51	6n 2	2s34	22n30	0n40	19n 2	0s30	22n50	0s31	23n58	0n18	22s52	0n47	21s12	17s 4	16s31	16s11	20n14		n.a.
T 2	21 42	20 10	3 30	25 7	1 54	6 25	2 35	22 37	0 41	19 6	0 29	22 51	0 31	23 58	0 18	22 52	0 47	21 12	17 4	16 30	16 10	20 14		n.a.
W 3	21 51	18 48	4 24	25 18	1 56	6 48	2 35	22 44	0 41	19 9	0 29	22 51	0 31	23 59	0 18	22 52	0 47	21 12	17 5	16 29	16 9	20 14		n.a.
T 4	22 0	16 12	4 59	25 27	1 57	7 12	2 35	22 50	0 42	19 12	0 29	22 52	0 31	23 59	0 18	22 52	0 47	21 12	17 5	16 28	16 8	20 14		n.a.
F 5	22 9	12 40	5 14	25 33	1 57	7 35	2 36	22 57	0 42	19 15	0 29	22 52	0 31	23 59	0 18	22 52	0 47	21 13	17 6	16 27	16 7	20 14		n.a.
S 6	22 18	8 31	5 10	25 37	1 57	7 59	2 36	23 3	0 43	19 19	0 29	22 53	0 31	23 59	0 18	22 51	0 47	21 13	17 6	16 27	16 6	20 14		n.a.
S 7	22 26	4 5	4 49	25 38	1 57	8 22	2 35	23 9	0 43	19 22	0 29	22 54	0 31	23 59	0 18	22 51	0 47	21 13	17 6	16 27	16 5	20 14		n.a.
M 8	22 33	0n25	4 13	25 38	1 55	8 46	2 35	23 15	0 43	19 25	0 29	22 54	0 30	23 59	0 18	22 51	0 47	21 13	17 7	16 27	16 4	20 14		n.a.
T 9	22 41	4 47	3 25	25 35	1 53	9 9	2 35	23 20	0 44	19 28	0 29	22 55	0 30	23 59	0 18	22 51	0 47	21 13	17 7	16 27	16 3	20 14		n.a.
W10	22 48	8 52	2 29	25 30	1 50	9 32	2 35	23 25	0 44	19 31	0 29	22 56	0 30	23 59	0 18	22 51	0 47	21 14	17 7	16 27	16 2	20 13		n.a.
T 11	22 54	12 30	1 27	25 24	1 47	9 55	2 34	23 31	0 45	19 34	0 29	22 56	0 30	23 59	0 18	22 51	0 47	21 14	17 8	16 28	16 1	20 13		n.a.
F 12	23 0	15 34	0 23	25 15	1 44	10 19	2 33	23 36	0 45	19 37	0 29	22 57	0 30	23 59	0 18	22 51	0 47	21 14	17 8	16 28	16 0	20 13		n.a.
S 13	23 6	17 57	0s42	25 5	1 39	10 42	2 33	23 40	0 46	19 40	0 29	22 57	0 30	23 59	0 18	22 51	0 47	21 15	17 8	16 28	15 59	20 13		n.a.
S 14	23 11	19 33	1 45	24 54	1 34	11 5	2 32	23 45	0 46	19 43	0 29	22 58	0 30	23 59	0 18	22 51	0 47	21 15	17 9	16 28	15 58	20 13		n.a.
M15	23 16	20 17	2 43	24 41	1 29	11 27	2 31	23 49	0 46	19 46	0 28	22 58	0 30	24 0	0 18	22 51	0 47	21 15	17 9	16 27	15 57	20 13		n.a.
T 16	23 20	20 8	3 34	24 26	1 23	11 50	2 30	23 54	0 47	19 49	0 28	22 59	0 30	24 0	0 18	22 51	0 47	21 15	17 10	16 25	15 56	20 13		n.a.
W17	23 25	19 5	4 16	24 10	1 17	12 13	2 29	23 58	0 47	19 52	0 28	23 0	0 30	24 0	0 18	22 51	0 47	21 16	17 10	16 23	15 55	20 13		n.a.
T 18	23 28	17 12	4 47	23 53	1 10	12 35	2 28	24 2	0 48	19 55	0 28	23 0	0 30	24 0	0 18	22 51	0 47	21 16	17 10	16 21	15 54	20 13		n.a.
F 19	23 31	14 33	5 5	23 35	1 3	12 57	2 26	24 5	0 48	19 58	0 28	23 1	0 29	24 0	0 18	22 51	0 47	21 16	17 11	16 19	15 53	20 12		n.a.
S 20	23 34	11 15	5 10	23 16	0 55	13 19	2 25	24 9	0 49	20 1	0 28	23 1	0 29	24 0	0 18	22 51	0 47	21 17	17 11	16 18	15 52	20 12		n.a.
S 21	23 37	7 25	5 0	22 56	0 47	13 41	2 23	24 12	0 49	20 4	0 28	23 2	0 29	24 0	0 18	22 51	0 47	21 17	17 11	16 16	15 51	20 12		n.a.
M22	23 39	3 12	4 36	22 36	0 38	14 3	2 22	24 15	0 49	20 6	0 28	23 2	0 29	24 0	0 18	22 51	0 47	21 17	17 12	16 15	15 50	20 12		n.a.
T 23	23 40	1s17	3 58	22 14	0 29	14 24	2 20	24 18	0 50	20 9	0 28	23 3	0 29	24 0	0 18	22 51	0 47	21 18	17 12	16 15	15 49	20 12		n.a.
W24	23 42	5 49	3 6	21 52	0 20	14 45	2 18	24 20	0 50	20 12	0 28	23 3	0 29	24 0	0 18	22 51	0 47	21 18	17 12	16 15	15 48	20 12		n.a.
T 25	23 42	10 13	2 1	21 30	0 11	15 6	2 17	24 23	0 51	20 15	0 28	23 4	0 29	24 0	0 18	22 51	0 47	21 18	17 13	16 15	15 47	20 12		n.a.
F 26	23 43	14 11	0 48	21 7	0 1	15 27	2 15	24 25	0 51	20 17	0 28	23 4	0 29	24 0	0 18	22 51	0 47	21 19	17 13	16 16	15 46	20 12		n.a.
S 27	23 43	17 24	0n31	20 43	0s10	15 47	2 13	24 27	0 51	20 20	0 28	23 5	0 29	24 0	0 18	22 51	0 47	21 19	17 14	16 16	15 45	20 11		n.a.
S 28	23 42	19 32	1 49	20 20	0 20	16 7	2 11	24 29	0 52	20 23	0 28	23 5	0 29	24 0	0 18	22 51	0 47	21 20	17 14	16 15	15 44	20 11		n.a.
M29	23 41	20 19	3 0	19 56	0 31	16 27	2 9	24 31	0 52	20 25	0 27	23 6	0 29	24 0	0 18	22 50	0 47	21 20	17 14	16 14	15 43	20 11		n.a.
T 30	23n40	19s37	4n 0	19n32	0s42	16n46	2s 7	24n33	0n53	20n28	0s27	23n 6	0s28	24n 1	0n18	22s50	0n47	21s20	17s15	16s13	15s42	20n11		n.a.

Julian Day Number = 1667882.5, Delta T = 03h22m10s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'26, Lahiri = - 5°58'26 Julian Calendar 1 June 147 BCE == Greg. Calendar 29 May 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

JULY 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 21 45	4♋28'24	20♑14	1♌38	24♉26	27♊12	2♊47	24♊ 9	28♊27	25°R15	16°R 4	13°R51	12♏16	19♊13	n.a.	W 1
T 2	18 25 41	5°25'44	5♒ 9	2°32	25°35	27°50	3° 0	24°16	28°30	25♐13	16♓ 3	13♏43	12°13	19°20	n.a.	T 2
F 3	18 29 38	6°23'06	19°42	3°22	26°43	28°29	3°13	24°24	28°34	25°12	16° 3	13°36	12° 9	19°27	n.a.	F 3
S 4	18 33 34	7°20'29	3♓47	4° 9	27°52	29° 7	3°25	24°32	28°38	25°10	16° 3	13°30	12° 6	19°33	n.a.	S 4
S 5	18 37 31	8°17'53	17°23	4°53	29° 1	29°46	3°37	24°39	28°41	25° 9	16° 3	13°26	12° 3	19°40	n.a.	S 5
M 6	18 41 27	9°15'18	0♈31	5°33	0♊10	0♋24	3°50	24°47	28°45	25° 7	16° 2	13°24	12° 0	19°47	n.a.	M 6
T 7	18 45 24	10°12'45	13°13	6° 9	1°19	1° 3	4° 2	24°55	28°49	25° 6	16° 2	13°D23	11°57	19°54	n.a.	T 7
W 8	18 49 21	11°10'13	25°35	6°41	2°28	1°41	4°14	25° 2	28°52	25° 4	16° 1	13°24	11°53	20° 0	n.a.	W 8
T 9	18 53 17	12° 7'43	7♉41	7° 9	3°37	2°20	4°26	25°10	28°56	25° 3	16° 1	13°R25	11°50	20° 7	n.a.	T 9
F 10	18 57 14	13° 5'14	19°36	7°33	4°47	2°58	4°39	25°17	28°59	25° 1	16° 1	13°25	11°47	20°14	n.a.	F 10
S 11	19 1 10	14° 2'46	1♊26	7°51	5°56	3°37	4°51	25°25	29° 3	24°59	16° 0	13°23	11°44	20°20	n.a.	S 11
S 12	19 5 7	15° 0'21	13°13	8° 6	7° 6	4°15	5° 3	25°33	29° 6	24°58	16° 0	13°19	11°41	20°27	n.a.	S 12
M13	19 9 3	15°57'56	25° 2	8°15	8°16	4°54	5°14	25°40	29°10	24°56	15°59	13°12	11°38	20°34	n.a.	M13
T 14	19 13 0	16°55'33	6♋55	8°R19	9°25	5°32	5°26	25°48	29°14	24°55	15°59	13° 3	11°34	20°40	n.a.	T 14
W15	19 16 56	17°53'11	18°54	8°17	10°35	6°10	5°38	25°55	29°17	24°54	15°58	12°52	11°31	20°47	n.a.	W15
T 16	19 20 53	18°50'51	1♌ 0	8°10	11°45	6°49	5°50	26° 2	29°21	24°52	15°58	12°40	11°28	20°54	n.a.	T 16
F 17	19 24 50	19°48'32	13°14	7°58	12°55	7°27	6° 1	26°10	29°24	24°51	15°57	12°28	11°25	21° 0	n.a.	F 17
S 18	19 28 46	20°46'14	25°38	7°40	14° 6	8° 5	6°13	26°17	29°28	24°49	15°57	12°17	11°22	21° 7	n.a.	S 18
S 19	19 32 43	21°43'58	8♍13	7°16	15°16	8°44	6°24	26°25	29°31	24°48	15°56	12° 8	11°19	21°14	n.a.	S 19
M20	19 36 39	22°41'42	20°59	6°47	16°26	9°22	6°36	26°32	29°34	24°46	15°55	12° 2	11°15	21°20	n.a.	M20
T 21	19 40 36	23°39'28	4♎ 0	6°12	17°37	10° 0	6°47	26°39	29°38	24°45	15°55	11°58	11°12	21°27	n.a.	T 21
W22	19 44 32	24°37'16	17°17	5°33	18°47	10°39	6°58	26°46	29°41	24°44	15°54	11°57	11° 9	21°34	n.a.	W22
T 23	19 48 29	25°35'04	0♏53	4°49	19°58	11°17	7°10	26°54	29°45	24°42	15°53	11°D57	11° 6	21°40	n.a.	T 23
F 24	19 52 25	26°32'54	14°49	4° 2	21° 9	11°55	7°21	27° 1	29°48	24°41	15°53	11°R57	11° 3	21°47	n.a.	F 24
S 25	19 56 22	27°30'45	29° 6	3°11	22°20	12°33	7°32	27° 8	29°51	24°40	15°52	11°56	10°59	21°54	n.a.	S 25
S 26	20 0 19	28°28'38	13♐43	2°18	23°31	13°12	7°42	27°15	29°55	24°38	15°51	11°53	10°56	22° 0	n.a.	S 26
M27	20 4 15	29°26'32	28°35	1°23	24°42	13°50	7°53	27°22	29°58	24°37	15°51	11°47	10°53	22° 7	n.a.	M27
T 28	20 8 12	0♑24'27	13♑35	0°29	25°53	14°28	8° 4	27°29	0♋ 1	24°36	15°50	11°39	10°50	22°14	n.a.	T 28
W29	20 12 8	1°22'24	28°36	29♋35	27° 4	15° 6	8°15	27°36	0° 5	24°35	15°49	11°29	10°47	22°20	n.a.	W29
T 30	20 16 5	2°20'23	13♒26	28°43	28°15	15°44	8°25	27°43	0° 8	24°33	15°48	11°18	10°44	22°27	n.a.	T 30
F 31	20 20 1	3♑18'23	27♒58	27♋55	29♊27	16♋22	8♊36	27♊50	0♋11	24♐32	15♓47	11♏ 7	10♏40	22♊34	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	23n38	17s32	4n42	19n 9	0s54	17n 5	2s 4	24n34	0n53	20n30	0s27	23n 6	0s28	24n 1	0n18	22s50	0n47	21s21	17s15	16s10	15s41	20n11			n.a.
T 2	23 36	14 17	5 4	18 45	1 6	17 24	2 2	24 35	0 53	20 33	0 27	23 7	0 28	24 1	0 18	22 50	0 47	21 21	17 15	16 8	15 40	20 11			n.a.
F 3	23 33	10 15	5 5	18 22	1 17	17 42	2 0	24 36	0 54	20 35	0 27	23 7	0 28	24 1	0 18	22 50	0 47	21 22	17 16	16 6	15 39	20 10			n.a.
S 4	23 30	5 46	4 48	17 59	1 29	18 0	1 57	24 37	0 54	20 38	0 27	23 8	0 28	24 1	0 19	22 50	0 47	21 22	17 16	16 4	15 38	20 10			n.a.
S 5	23 27	1 8	4 15	17 37	1 42	18 18	1 55	24 37	0 55	20 40	0 27	23 8	0 28	24 1	0 19	22 50	0 47	21 23	17 16	16 3	15 37	20 10			n.a.
M 6	23 23	3n24	3 29	17 15	1 54	18 35	1 52	24 38	0 55	20 43	0 27	23 8	0 28	24 1	0 19	22 50	0 47	21 23	17 17	16 2	15 36	20 10			n.a.
T 7	23 19	7 39	2 35	16 55	2 6	18 52	1 50	24 38	0 55	20 45	0 27	23 9	0 28	24 1	0 19	22 50	0 47	21 23	17 17	16 2	15 36	20 10			n.a.
W 8	23 14	11 28	1 34	16 34	2 19	19 9	1 47	24 38	0 56	20 47	0 27	23 9	0 28	24 1	0 19	22 50	0 47	21 24	17 17	16 2	15 35	20 9			n.a.
T 9	23 9	14 43	0 31	16 15	2 31	19 25	1 44	24 37	0 56	20 50	0 27	23 10	0 28	24 1	0 19	22 50	0 47	21 24	17 18	16 3	15 34	20 9			n.a.
F 10	23 4	17 18	0s33	15 58	2 44	19 40	1 42	24 37	0 56	20 52	0 27	23 10	0 28	24 1	0 19	22 50	0 47	21 25	17 18	16 3	15 33	20 9			n.a.
S 11	22 58	19 8	1 35	15 41	2 56	19 55	1 39	24 36	0 57	20 54	0 27	23 10	0 28	24 1	0 19	22 50	0 47	21 25	17 18	16 2	15 32	20 9			n.a.
S 12	22 51	20 8	2 32	15 26	3 8	20 10	1 36	24 36	0 57	20 57	0 27	23 11	0 28	24 1	0 19	22 50	0 47	21 26	17 19	16 1	15 31	20 9			n.a.
M13	22 45	20 14	3 23	15 12	3 19	20 24	1 33	24 35	0 58	20 59	0 27	23 11	0 28	24 1	0 19	22 50	0 47	21 26	17 19	15 59	15 30	20 8			n.a.
T 14	22 37	19 27	4 5	15 0	3 31	20 38	1 30	24 33	0 58	21 1	0 27	23 11	0 27	24 1	0 19	22 50	0 47	21 27	17 19	15 56	15 29	20 8			n.a.
W15	22 30	17 48	4 37	14 50	3 41	20 51	1 27	24 32	0 58	21 3	0 27	23 11	0 27	24 1	0 19	22 50	0 47	21 27	17 20	15 53	15 28	20 8			n.a.
T 16	22 22	15 21	4 56	14 42	3 52	21 3	1 24	24 31	0 59	21 5	0 26	23 12	0 27	24 1	0 19	22 50	0 47	21 28	17 20	15 49	15 27	20 8			n.a.
F 17	22 14	12 12	5 2	14 36	4 1	21 16	1 21	24 29	0 59	21 7	0 26	23 12	0 27	24 1	0 19	22 50	0 47	21 28	17 20	15 45	15 26	20 7			n.a.
S 18	22 5	8 30	4 54	14 32	4 10	21 27	1 18	24 27	0 59	21 9	0 26	23 12	0 27	24 1	0 19	22 50	0 47	21 29	17 21	15 42	15 25	20 7			n.a.
S 19	21 56	4 23	4 32	14 31	4 17	21 38	1 15	24 25	1 0	21 12	0 26	23 13	0 27	24 1	0 19	22 50	0 47	21 29	17 21	15 39	15 24	20 7			n.a.
M20	21 47	0 0	3 56	14 32	4 24	21 49	1 12	24 22	1 0	21 14	0 26	23 13	0 27	24 1	0 19	22 50	0 47	21 30	17 21	15 37	15 23	20 7			n.a.
T 21	21 37	4s28	3 7	14 35	4 29	21 59	1 9	24 20	1 0	21 16	0 26	23 13	0 27	24 1	0 19	22 50	0 47	21 30	17 22	15 36	15 22	20 7			n.a.
W22	21 27	8 49	2 7	14 41	4 33	22 8	1 6	24 17	1 1	21 17	0 26	23 13	0 27	24 1	0 19	22 50	0 47	21 31	17 22	15 36	15 21	20 6			n.a.
T 23	21 16	12 49	0 58	14 50	4 35	22 17	1 3	24 14	1 1	21 19	0 26	23 14	0 27	24 1	0 19	22 50	0 47	21 31	17 22	15 36	15 20	20 6			n.a.
F 24	21 5	16 13	0n15	15 0	4 35	22 25	1 0	24 11	1 1	21 21	0 26	23 14	0 27	24 1	0 19	22 50	0 47	21 32	17 22	15 36	15 19	20 6			n.a.
S 25	20 54	18 44	1 30	15 13	4 34	22 33	0 57	24 8	1 2	21 23	0 26	23 14	0 27	24 1	0 19	22 50	0 47	21 33	17 23	15 35	15 18	20 6			n.a.
S 26	20 42	20 4	2 40	15 29	4 31	22 40	0 54	24 5	1 2	21 25	0 26	23 14	0 27	24 1	0 19	22 50	0 47	21 33	17 23	15 34	15 17	20 5			n.a.
M27	20 30	20 2	3 40	15 46	4 25	22 46	0 50	24 1	1 2	21 27	0 26	23 15	0 27	24 1	0 19	22 50	0 47	21 34	17 23	15 33	15 16	20 5			n.a.
T 28	20 18	18 36	4 26	16 4	4 18	22 52	0 47	23 57	1 3	21 29	0 26	23 15	0 26	24 1	0 19	22 49	0 47	21 34	17 24	15 30	15 15	20 5			n.a.
W29	20 5	15 53	4 53	16 24	4 9	22 57	0 44	23 53	1 3	21 30	0 26	23 15	0 26	24 2	0 19	22 49	0 46	21 35	17 24	15 27	15 14	20 4			n.a.
T 30	19 52	12 10	5 1	16 46	3 58	23 1	0 41	23 49	1 3	21 32	0 26	23 15	0 26	24 2	0 19	22 49	0 46	21 35	17 24	15 23	15 13	20 4			n.a.
F 31	19n38	7s48	4n48	17n 8	3s46	23n 5	0s38	23n45	1n 4	21n34	0s26	23n15	0s26	24n 2	0n19	22s49	0n46	21s36	17s24	15s20	15s12	20n 4			n.a.

Julian Day Number = 1667912.5, Delta T = 03h22m09s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'22, Lahiri = - 5°58'22 Julian Calendar 1 July 147 BCE == Greg. Calendar 28 June 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

AUGUST 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 58	4♌16'25	12♓ 5	27°R11	0♋38	17♋ 0	8♊46	27♊57	0♋14	24°R31	15°R47	10°R58	10♏37	22♊40	n.a.	S 1
S 2	20 27 54	5°14'29	25°44	26♋32	1°50	17°39	8°56	28° 3	0°17	24♐30	15♓46	10♏51	10°34	22°47	n.a.	S 2
M 3	20 31 51	6°12'35	8♈55	25°59	3° 1	18°17	9° 6	28°10	0°21	24°29	15°45	10°47	10°31	22°54	n.a.	M 3
T 4	20 35 48	7°10'44	21°41	25°33	4°13	18°55	9°16	28°17	0°24	24°28	15°44	10°45	10°28	23° 1	n.a.	T 4
W 5	20 39 44	8° 8'54	4♉ 4	25°15	5°25	19°33	9°26	28°23	0°27	24°27	15°43	10°44	10°25	23° 7	n.a.	W 5
T 6	20 43 41	9° 7'06	16°10	25° 6	6°37	20°11	9°36	28°30	0°30	24°26	15°42	10°44	10°21	23°14	n.a.	T 6
F 7	20 47 37	10° 5'21	28° 6	25°D 4	7°49	20°49	9°46	28°37	0°33	24°25	15°41	10°43	10°18	23°21	n.a.	F 7
S 8	20 51 34	11° 3'38	9♊55	25°12	9° 1	21°27	9°55	28°43	0°36	24°24	15°41	10°41	10°15	23°27	n.a.	S 8
S 9	20 55 30	12° 1'57	21°44	25°28	10°13	22° 5	10° 5	28°49	0°39	24°23	15°40	10°36	10°12	23°34	n.a.	S 9
M10	20 59 27	13° 0'18	3♋35	25°53	11°25	22°43	10°14	28°56	0°42	24°22	15°39	10°29	10° 9	23°41	n.a.	M10
T 11	21 3 23	13°58'41	15°33	26°27	12°37	23°21	10°24	29° 2	0°45	24°21	15°38	10°19	10° 5	23°47	n.a.	T 11
W12	21 7 20	14°57'06	27°41	27° 9	13°50	23°59	10°33	29° 8	0°48	24°20	15°37	10° 6	10° 2	23°54	n.a.	W12
T 13	21 11 17	15°55'33	9♌58	28° 0	15° 2	24°37	10°42	29°15	0°51	24°19	15°36	9°53	9°59	24° 1	n.a.	T 13
F 14	21 15 13	16°54'02	22°28	28°57	16°15	25°15	10°51	29°21	0°53	24°18	15°35	9°39	9°56	24° 7	n.a.	F 14
S 15	21 19 10	17°52'34	5♍ 8	0♌ 3	17°27	25°53	10°59	29°27	0°56	24°17	15°34	9°27	9°53	24°14	n.a.	S 15
S 16	21 23 6	18°51'06	18° 0	1°14	18°40	26°31	11° 8	29°33	0°59	24°17	15°33	9°16	9°50	24°21	n.a.	S 16
M17	21 27 3	19°49'41	1♎ 3	2°32	19°53	27° 9	11°17	29°39	1° 2	24°16	15°32	9° 9	9°46	24°27	n.a.	M17
T 18	21 30 59	20°48'18	14°17	3°56	21° 5	27°47	11°25	29°45	1° 4	24°15	15°31	9° 4	9°43	24°34	n.a.	T 18
W19	21 34 56	21°46'56	27°43	5°24	22°18	28°25	11°33	29°50	1° 7	24°14	15°30	9° 2	9°40	24°41	n.a.	W19
T 20	21 38 52	22°45'37	11♏21	6°56	23°31	29° 3	11°42	29°56	1° 9	24°14	15°29	9°D 2	9°37	24°47	n.a.	T 20
F 21	21 42 49	23°44'19	25°13	8°33	24°44	29°41	11°50	0♋ 2	1°12	24°13	15°27	9°R 2	9°34	24°54	n.a.	F 21
S 22	21 46 45	24°43'03	9♐19	10°12	25°57	0♌18	11°57	0° 8	1°15	24°13	15°26	9° 1	9°30	25° 1	n.a.	S 22
S 23	21 50 42	25°41'48	23°38	11°54	27°10	0°56	12° 5	0°13	1°17	24°12	15°25	8°59	9°27	25° 8	n.a.	S 23
M24	21 54 39	26°40'36	8♑ 9	13°39	28°24	1°34	12°13	0°19	1°20	24°11	15°24	8°54	9°24	25°14	n.a.	M24
T 25	21 58 35	27°39'25	22°46	15°25	29°37	2°12	12°20	0°24	1°22	24°11	15°23	8°46	9°21	25°21	n.a.	T 25
W26	22 2 32	28°38'16	7♒23	17°12	0♌50	2°50	12°28	0°29	1°24	24°10	15°22	8°36	9°18	25°28	n.a.	W26
T 27	22 6 28	29°37'09	21°54	19° 0	2° 3	3°28	12°35	0°35	1°27	24°10	15°21	8°26	9°15	25°34	n.a.	T 27
F 28	22 10 25	0♍36'04	6♓12	20°49	3°17	4° 5	12°42	0°40	1°29	24°10	15°20	8°15	9°11	25°41	n.a.	F 28
S 29	22 14 21	1°35'02	20° 9	22°38	4°30	4°43	12°49	0°45	1°31	24° 9	15°19	8° 6	9° 8	25°48	n.a.	S 29
S 30	22 18 18	2°34'01	3♈43	24°28	5°44	5°21	12°56	0°50	1°33	24° 9	15°18	7°59	9° 5	25°54	n.a.	S 30
M31	22 22 14	3♍33'03	16♈52	26♌17	6♌58	5♌59	13♊ 2	0♋55	1♋36	24♐ 8	15♓16	7♏55	9♏ 2	26♊ 1	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n24	3s 8	4n18	17n30	3s32	23n 8	0s34	23n40	1n 4	21n35	0s26	23n15	0s26	24n 2	0n19	22s49	0n46	21s36	17s25	15s17	15s11	20n 4		n.a.
S 2	19 10	1n34	3 34	17 52	3 16	23 11	0 31	23 36	1 4	21 37	0 26	23 16	0 26	24 2	0 19	22 49	0 46	21 37	17 25	15 15	15 10	20 3		n.a.
M 3	18 56	6 1	2 40	18 15	3 0	23 12	0 28	23 31	1 5	21 39	0 26	23 16	0 26	24 2	0 19	22 49	0 46	21 37	17 25	15 14	15 9	20 3		n.a.
T 4	18 41	10 4	1 39	18 36	2 43	23 14	0 25	23 26	1 5	21 40	0 25	23 16	0 26	24 2	0 19	22 49	0 46	21 38	17 25	15 13	15 8	20 3		n.a.
W 5	18 26	13 34	0 35	18 57	2 25	23 14	0 22	23 21	1 5	21 42	0 25	23 16	0 26	24 2	0 19	22 49	0 46	21 39	17 26	15 13	15 7	20 2		n.a.
T 6	18 11	16 24	0s29	19 17	2 7	23 14	0 19	23 15	1 6	21 43	0 25	23 16	0 26	24 2	0 19	22 49	0 46	21 39	17 26	15 13	15 6	20 2		n.a.
F 7	17 55	18 29	1 31	19 35	1 48	23 13	0 15	23 10	1 6	21 45	0 25	23 16	0 26	24 2	0 19	22 49	0 46	21 40	17 26	15 13	15 5	20 2		n.a.
S 8	17 39	19 45	2 28	19 52	1 30	23 12	0 12	23 4	1 6	21 46	0 25	23 17	0 26	24 2	0 19	22 49	0 46	21 40	17 26	15 12	15 4	20 1		n.a.
S 9	17 23	20 9	3 19	20 7	1 12	23 10	0 9	22 58	1 7	21 48	0 25	23 17	0 26	24 2	0 19	22 49	0 46	21 41	17 26	15 10	15 3	20 1		n.a.
M10	17 6	19 39	4 1	20 20	0 54	23 7	0 6	22 52	1 7	21 49	0 25	23 17	0 26	24 2	0 19	22 49	0 46	21 41	17 27	15 8	15 2	20 1		n.a.
T 11	16 49	18 16	4 33	20 30	0 37	23 3	0 3	22 46	1 7	21 51	0 25	23 17	0 26	24 2	0 19	22 49	0 46	21 42	17 27	15 5	15 1	20 0		n.a.
W12	16 32	16 4	4 53	20 38	0 20	22 59	0 0	22 40	1 8	21 52	0 25	23 17	0 26	24 2	0 19	22 49	0 46	21 43	17 27	15 1	15 0	20 0		n.a.
T 13	16 15	13 8	5 0	20 44	0 4	22 54	0n 3	22 33	1 8	21 53	0 25	23 17	0 25	24 2	0 19	22 49	0 46	21 43	17 27	14 56	14 59	20 0		n.a.
F 14	15 57	9 34	4 53	20 46	0n11	22 49	0 6	22 27	1 8	21 55	0 25	23 17	0 25	24 2	0 19	22 49	0 46	21 44	17 27	14 52	14 57	19 59		n.a.
S 15	15 39	5 32	4 31	20 46	0 25	22 42	0 9	22 20	1 8	21 56	0 25	23 17	0 25	24 2	0 19	22 49	0 46	21 44	17 28	14 48	14 56	19 59		n.a.
S 16	15 21	1 12	3 55	20 43	0 37	22 35	0 12	22 13	1 9	21 57	0 25	23 17	0 25	24 2	0 19	22 49	0 46	21 45	17 28	14 45	14 55	19 59		n.a.
M17	15 2	3s16	3 7	20 37	0 49	22 28	0 15	22 6	1 9	21 59	0 25	23 17	0 25	24 2	0 19	22 49	0 46	21 45	17 28	14 42	14 54	19 58		n.a.
T 18	14 43	7 38	2 7	20 28	1 0	22 20	0 18	21 58	1 9	22 0	0 25	23 17	0 25	24 2	0 19	22 49	0 46	21 46	17 28	14 41	14 53	19 58		n.a.
W19	14 24	11 42	1 0	20 16	1 10	22 11	0 20	21 51	1 10	22 1	0 25	23 18	0 25	24 2	0 19	22 49	0 46	21 47	17 28	14 40	14 52	19 58		n.a.
T 20	14 5	15 13	0n12	20 1	1 18	22 1	0 23	21 43	1 10	22 2	0 25	23 18	0 25	24 2	0 19	22 49	0 46	21 47	17 28	14 40	14 51	19 57		n.a.
F 21	13 46	17 55	1 25	19 43	1 26	21 51	0 26	21 36	1 10	22 3	0 25	23 18	0 25	24 2	0 19	22 49	0 46	21 48	17 29	14 40	14 50	19 57		n.a.
S 22	13 26	19 34	2 33	19 22	1 32	21 40	0 29	21 28	1 11	22 4	0 25	23 18	0 25	24 2	0 19	22 49	0 46	21 48	17 29	14 40	14 49	19 57		n.a.
S 23	13 6	20 0	3 33	18 59	1 38	21 28	0 31	21 20	1 11	22 5	0 25	23 18	0 25	24 2	0 19	22 49	0 46	21 49	17 29	14 39	14 48	19 56		n.a.
M24	12 46	19 8	4 20	18 33	1 42	21 16	0 34	21 11	1 11	22 6	0 25	23 18	0 25	24 2	0 19	22 49	0 46	21 49	17 29	14 37	14 47	19 56		n.a.
T 25	12 25	16 59	4 51	18 5	1 46	21 4	0 37	21 3	1 11	22 8	0 24	23 18	0 25	24 2	0 19	22 49	0 46	21 50	17 29	14 35	14 46	19 55		n.a.
W26	12 5	13 46	5 2	17 35	1 48	20 50	0 39	20 55	1 12	22 9	0 24	23 18	0 25	24 2	0 19	22 49	0 46	21 50	17 29	14 32	14 45	19 55		n.a.
T 27	11 44	9 44	4 54	17 2	1 50	20 36	0 42	20 46	1 12	22 10	0 24	23 18	0 25	24 2	0 19	22 49	0 46	21 51	17 29	14 28	14 44	19 55		n.a.
F 28	11 23	5 12	4 28	16 28	1 51	20 21	0 44	20 37	1 12	22 10	0 24	23 18	0 25	24 2	0 19	22 49	0 46	21 52	17 29	14 25	14 43	19 54		n.a.
S 29	11 2	0 30	3 45	15 53	1 52	20 6	0 47	20 28	1 13	22 11	0 24	23 18	0 25	24 2	0 20	22 49	0 45	21 52	17 30	14 22	14 42	19 54		n.a.
S 30	10 41	4n 7	2 51	15 16	1 51	19 50	0 49	20 19	1 13	22 12	0 24	23 18	0 24	24 2	0 20	22 49	0 45	21 53	17 30	14 20	14 41	19 54		n.a.
M31	10n19	8n23	1n50	14n37	1n50	19n34	0n51	20n10	1n13	22n13	0s24	23n18	0s24	24n 2	0n20	22s49	0n45	21s53	17s30	14s18	14s40	19n53		n.a.

Julian Day Number = 1667943.5, Delta T = 03h22m08s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'18, Lahiri = - 5°58'18 Julian Calendar 1 Aug. 147 BCE == Greg. Calendar 29 July 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

SEPTEMBER 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 26 11	4♍32'07	29♈38	28♌ 6	8♌11	6♌37	13♊ 9	1♋ 0	1♋38	24°R 8	15°R15	7°R53	8♏59	26♊ 8	n.a.	T 1
W 2	22 30 8	5°31'13	12♉ 3	29°55	9°25	7°14	13°15	1° 4	1°40	24♐ 8	15♓14	7°D52	8°56	26°14	n.a.	W 2
T 3	22 34 4	6°30'22	24°12	1♍44	10°39	7°52	13°21	1° 9	1°42	24° 8	15°13	7♏53	8°52	26°21	n.a.	T 3
F 4	22 38 1	7°29'34	6♊ 9	3°32	11°53	8°30	13°27	1°14	1°44	24° 7	15°12	7°R54	8°49	26°28	n.a.	F 4
S 5	22 41 57	8°28'48	18° 0	5°19	13° 7	9° 8	13°33	1°18	1°46	24° 7	15°11	7°53	8°46	26°34	n.a.	S 5
S 6	22 45 54	9°28'04	29°50	7° 6	14°21	9°45	13°39	1°23	1°48	24° 7	15° 9	7°51	8°43	26°41	n.a.	S 6
M 7	22 49 50	10°27'22	11♋44	8°52	15°35	10°23	13°44	1°27	1°49	24° 7	15° 8	7°46	8°40	26°48	n.a.	M 7
T 8	22 53 47	11°26'43	23°46	10°37	16°49	11° 1	13°50	1°31	1°51	24° 7	15° 7	7°39	8°36	26°55	n.a.	T 8
W 9	22 57 43	12°26'06	6♌ 1	12°22	18° 3	11°38	13°55	1°36	1°53	24°D 7	15° 6	7°30	8°33	27° 1	n.a.	W 9
T 10	23 1 40	13°25'32	18°29	14° 6	19°17	12°16	14° 0	1°40	1°55	24° 7	15° 5	7°21	8°30	27° 8	n.a.	T 10
F 11	23 5 36	14°25'00	1♍12	15°49	20°31	12°54	14° 5	1°44	1°56	24° 7	15° 4	7°11	8°27	27°15	n.a.	F 11
S 12	23 9 33	15°24'30	14°11	17°32	21°46	13°31	14° 9	1°48	1°58	24° 7	15° 2	7° 1	8°24	27°21	n.a.	S 12
S 13	23 13 30	16°24'02	27°24	19°13	23° 0	14° 9	14°14	1°51	2° 0	24° 7	15° 1	6°54	8°21	27°28	n.a.	S 13
M14	23 17 26	17°23'36	10♎50	20°54	24°14	14°47	14°18	1°55	2° 1	24° 7	15° 0	6°49	8°17	27°35	n.a.	M14
T 15	23 21 23	18°23'12	24°27	22°34	25°29	15°24	14°22	1°59	2° 2	24° 8	14°59	6°46	8°14	27°41	n.a.	T 15
W16	23 25 19	19°22'50	8♏13	24°14	26°43	16° 2	14°26	2° 2	2° 4	24° 8	14°58	6°D45	8°11	27°48	n.a.	W16
T 17	23 29 16	20°22'30	22° 7	25°53	27°58	16°40	14°30	2° 6	2° 5	24° 8	14°57	6°46	8° 8	27°55	n.a.	T 17
F 18	23 33 12	21°22'12	6♐ 7	27°31	29°12	17°17	14°34	2° 9	2° 7	24° 8	14°55	6°47	8° 5	28° 1	n.a.	F 18
S 19	23 37 9	22°21'56	20°13	29° 9	0♍27	17°55	14°37	2°12	2° 8	24° 9	14°54	6°R48	8° 2	28° 8	n.a.	S 19
S 20	23 41 5	23°21'41	4♑23	0♎45	1°42	18°32	14°40	2°15	2° 9	24° 9	14°53	6°47	7°58	28°15	n.a.	S 20
M21	23 45 2	24°21'29	18°36	2°22	2°56	19°10	14°43	2°18	2°10	24° 9	14°52	6°45	7°55	28°21	n.a.	M21
T 22	23 48 59	25°21'18	2♒49	3°57	4°11	19°48	14°46	2°21	2°11	24°10	14°51	6°41	7°52	28°28	n.a.	T 22
W23	23 52 55	26°21'08	16°59	5°32	5°26	20°25	14°49	2°24	2°12	24°10	14°50	6°35	7°49	28°35	n.a.	W23
T 24	23 56 52	27°21'01	1♓ 1	7° 7	6°40	21° 3	14°51	2°27	2°13	24°11	14°49	6°29	7°46	28°42	n.a.	T 24
F 25	0 0 48	28°20'55	14°53	8°41	7°55	21°40	14°54	2°30	2°14	24°11	14°47	6°22	7°42	28°48	n.a.	F 25
S 26	0 4 45	29°20'52	28°29	10°14	9°10	22°18	14°56	2°32	2°15	24°12	14°46	6°17	7°39	28°55	n.a.	S 26
S 27	0 8 41	0♎20'50	11♈48	11°47	10°25	22°55	14°58	2°35	2°16	24°12	14°45	6°13	7°36	29° 2	n.a.	S 27
M28	0 12 38	1°20'51	24°47	13°19	11°40	23°33	14°59	2°37	2°17	24°13	14°44	6°11	7°33	29° 8	n.a.	M28
T 29	0 16 34	2°20'53	7♉27	14°51	12°55	24°10	15° 1	2°39	2°17	24°13	14°43	6°D10	7°30	29°15	n.a.	T 29
W30	0 20 31	3♎20'58	19♉50	16♎23	14♍10	24♌48	15♊ 2	2♋41	2♋18	24♐14	14♓42	6♏11	7♏27	29♊22	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n57	12n 9	0n44	13n58	1n49	19n17	0n53	20n 1	1n13	22n14	0s24	23n18	0s24	24n 2	0n20	22s49	0n45	21s54	17s30	14s18	14s39	19n53		n.a.
W 2	9 36	15 16	0s22	13 17	1 46	18 59	0 56	19 51	1 14	22 15	0 24	23 18	0 24	24 2	0 20	22 49	0 45	21 54	17 30	14 18	14 38	19 52		n.a.
T 3	9 13	17 39	1 26	12 35	1 44	18 41	0 58	19 42	1 14	22 16	0 24	23 18	0 24	24 2	0 20	22 49	0 45	21 55	17 30	14 18	14 37	19 52		n.a.
F 4	8 51	19 12	2 25	11 53	1 41	18 23	1 0	19 32	1 14	22 17	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 55	17 30	14 18	14 36	19 51		n.a.
S 5	8 29	19 53	3 18	11 10	1 37	18 3	1 2	19 22	1 14	22 17	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 56	17 30	14 18	14 35	19 51		n.a.
S 6	8 6	19 41	4 1	10 27	1 33	17 44	1 4	19 12	1 15	22 18	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 56	17 30	14 17	14 34	19 51		n.a.
M 7	7 44	18 37	4 35	9 42	1 29	17 23	1 6	19 2	1 15	22 19	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 57	17 30	14 15	14 33	19 50		n.a.
T 8	7 21	16 43	4 57	8 58	1 24	17 3	1 7	18 52	1 15	22 19	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 57	17 30	14 13	14 32	19 50		n.a.
W 9	6 58	14 3	5 5	8 13	1 20	16 41	1 9	18 42	1 15	22 20	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 58	17 30	14 10	14 31	19 49		n.a.
T 10	6 35	10 42	5 0	7 28	1 14	16 20	1 11	18 31	1 16	22 21	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 58	17 30	14 7	14 30	19 49		n.a.
F 11	6 12	6 49	4 39	6 43	1 9	15 57	1 13	18 21	1 16	22 21	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 59	17 30	14 4	14 29	19 48		n.a.
S 12	5 49	2 32	4 4	5 57	1 3	15 35	1 14	18 10	1 16	22 22	0 24	23 18	0 24	24 2	0 20	22 50	0 45	21 59	17 30	14 1	14 28	19 48		n.a.
S 13	5 26	1s56	3 16	5 12	0 58	15 12	1 16	17 59	1 16	22 23	0 24	23 18	0 24	24 2	0 20	22 50	0 45	22 0	17 30	13 58	14 27	19 48		n.a.
M14	5 2	6 24	2 15	4 26	0 52	14 48	1 17	17 48	1 17	22 23	0 24	23 18	0 24	24 2	0 20	22 50	0 45	22 0	17 30	13 57	14 26	19 47		n.a.
T 15	4 39	10 36	1 6	3 41	0 46	14 24	1 18	17 37	1 17	22 24	0 23	23 18	0 24	24 2	0 20	22 50	0 45	22 0	17 30	13 56	14 25	19 47		n.a.
W16	4 15	14 17	0n 8	2 55	0 39	14 0	1 20	17 26	1 17	22 24	0 23	23 18	0 24	24 2	0 20	22 50	0 45	22 1	17 30	13 55	14 24	19 46		n.a.
T 17	3 51	17 11	1 22	2 10	0 33	13 35	1 21	17 15	1 17	22 25	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 1	17 30	13 56	14 23	19 46		n.a.
F 18	3 28	19 5	2 32	1 24	0 27	13 10	1 22	17 4	1 18	22 25	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 2	17 30	13 56	14 22	19 45		n.a.
S 19	3 4	19 48	3 33	0 39	0 20	12 44	1 23	16 52	1 18	22 26	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 2	17 30	13 56	14 21	19 45		n.a.
S 20	2 40	19 17	4 22	0s 6	0 14	12 18	1 24	16 41	1 18	22 26	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 3	17 30	13 56	14 19	19 44		n.a.
M21	2 16	17 33	4 54	0 51	0 7	11 52	1 25	16 29	1 18	22 26	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 3	17 30	13 55	14 18	19 44		n.a.
T 22	1 52	14 44	5 9	1 35	0 0	11 25	1 26	16 17	1 19	22 27	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 3	17 30	13 54	14 17	19 43		n.a.
W23	1 28	11 5	5 5	2 19	0s 7	10 58	1 27	16 5	1 19	22 27	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 4	17 30	13 52	14 16	19 43		n.a.
T 24	1 4	6 50	4 42	3 3	0 13	10 31	1 28	15 53	1 19	22 28	0 23	23 18	0 23	24 2	0 20	22 50	0 45	22 4	17 30	13 50	14 15	19 42		n.a.
F 25	0 40	2 17	4 3	3 47	0 20	10 3	1 28	15 41	1 19	22 28	0 23	23 18	0 23	24 2	0 20	22 50	0 44	22 5	17 30	13 48	14 14	19 42		n.a.
S 26	0 16	2n18	3 11	4 30	0 27	9 36	1 29	15 29	1 19	22 28	0 23	23 18	0 23	24 2	0 20	22 51	0 44	22 5	17 29	13 46	14 13	19 41		n.a.
S 27	0s 8	6 41	2 9	5 13	0 33	9 7	1 30	15 17	1 20	22 28	0 23	23 18	0 23	24 2	0 20	22 51	0 44	22 5	17 29	13 45	14 12	19 41		n.a.
M28	0 33	10 40	1 2	5 56	0 40	8 39	1 30	15 5	1 20	22 29	0 23	23 18	0 23	24 2	0 20	22 51	0 44	22 6	17 29	13 44	14 11	19 40		n.a.
T 29	0 57	14 3	0s 7	6 38	0 47	8 10	1 30	14 52	1 20	22 29	0 23	23 18	0 23	24 2	0 20	22 51	0 44	22 6	17 29	13 44	14 10	19 40		n.a.
W30	1s21	16n43	1s14	7s20	0s53	7n42	1n31	14n40	1n20	22n29	0s23	23n18	0s23	24n 2	0n20	22s51	0n44	22s 6	17s29	13s44	14s 9	19n39		n.a.

Julian Day Number = 1667974.5, Delta T = 03h22m07s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'14, Lahiri = - 5°58'13 Julian Calendar 1 Sept. 147 BCE == Greg. Calendar 29 Aug. 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

OCTOBER 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 24 27	4♎21'05	1♊59	17♎53	15♍25	25♌25	15♊ 3	2♋43	2♋19	24♐15	14°R41	6♏12	7♏23	29♊28	n.a.	T 1
F 2	0 28 24	5°21'14	13°57	19°24	16°40	26° 3	15° 4	2°45	2°19	24°16	14♓40	6°14	7°20	29°35	n.a.	F 2
S 3	0 32 21	6°21'25	25°49	20°53	17°55	26°40	15° 5	2°47	2°20	24°16	14°39	6°16	7°17	29°42	n.a.	S 3
S 4	0 36 17	7°21'39	7♋40	22°23	19°10	27°17	15° 5	2°49	2°20	24°17	14°37	6°R16	7°14	29°48	n.a.	S 4
M 5	0 40 14	8°21'54	19°35	23°52	20°25	27°55	15° 6	2°50	2°21	24°18	14°36	6°16	7°11	29°55	n.a.	M 5
T 6	0 44 10	9°22'12	1♌38	25°20	21°40	28°32	15°R 6	2°52	2°21	24°19	14°35	6°14	7° 7	0♋ 2	n.a.	T 6
W 7	0 48 7	10°22'32	13°54	26°48	22°56	29°10	15° 6	2°53	2°21	24°20	14°34	6°11	7° 4	0° 9	n.a.	W 7
T 8	0 52 3	11°22'54	26°27	28°15	24°11	29°47	15° 6	2°54	2°22	24°21	14°33	6° 7	7° 1	0°15	n.a.	T 8
F 9	0 56 0	12°23'17	9♍19	29°42	25°26	0♍24	15° 5	2°55	2°22	24°22	14°32	6° 3	6°58	0°22	n.a.	F 9
S 10	0 59 56	13°23'43	22°31	1♏ 8	26°41	1° 2	15° 4	2°56	2°22	24°23	14°31	5°59	6°55	0°29	n.a.	S 10
S 11	1 3 53	14°24'11	6♎ 3	2°33	27°57	1°39	15° 4	2°57	2°22	24°24	14°30	5°56	6°52	0°35	n.a.	S 11
M12	1 7 50	15°24'40	19°52	3°58	29°12	2°16	15° 3	2°58	2°R22	24°25	14°29	5°54	6°48	0°42	n.a.	M12
T 13	1 11 46	16°25'11	3♏56	5°21	0♎27	2°54	15° 1	2°59	2°22	24°26	14°28	5°D54	6°45	0°49	n.a.	T 13
W14	1 15 43	17°25'44	18°10	6°44	1°43	3°31	15° 0	2°59	2°22	24°27	14°27	5°54	6°42	0°55	n.a.	W14
T 15	1 19 39	18°26'18	2♐30	8° 7	2°58	4° 8	14°58	3° 0	2°22	24°28	14°26	5°55	6°39	1° 2	n.a.	T 15
F 16	1 23 36	19°26'54	16°51	9°28	4°13	4°46	14°56	3° 0	2°21	24°29	14°25	5°56	6°36	1° 9	n.a.	F 16
S 17	1 27 32	20°27'31	1♑11	10°48	5°29	5°23	14°54	3° 0	2°21	24°31	14°25	5°58	6°33	1°16	n.a.	S 17
S 18	1 31 29	21°28'10	15°25	12° 6	6°44	6° 0	14°52	3°R 0	2°21	24°32	14°24	5°R58	6°29	1°22	n.a.	S 18
M19	1 35 25	22°28'49	29°32	13°23	8° 0	6°37	14°49	3° 0	2°21	24°33	14°23	5°58	6°26	1°29	n.a.	M19
T 20	1 39 22	23°29'30	13♒29	14°39	9°15	7°14	14°47	3° 0	2°20	24°34	14°22	5°57	6°23	1°36	n.a.	T 20
W21	1 43 19	24°30'12	27°17	15°53	10°31	7°52	14°44	3° 0	2°20	24°36	14°21	5°56	6°20	1°42	n.a.	W21
T 22	1 47 15	25°30'55	10♓53	17° 4	11°46	8°29	14°41	3° 0	2°19	24°37	14°20	5°55	6°17	1°49	n.a.	T 22
F 23	1 51 12	26°31'40	24°16	18°14	13° 1	9° 6	14°38	2°59	2°19	24°38	14°19	5°54	6°13	1°56	n.a.	F 23
S 24	1 55 8	27°32'26	7♈26	19°20	14°17	9°43	14°34	2°58	2°18	24°40	14°19	5°52	6°10	2° 2	n.a.	S 24
S 25	1 59 5	28°33'13	20°22	20°24	15°32	10°20	14°31	2°58	2°17	24°41	14°18	5°52	6° 7	2° 9	n.a.	S 25
M26	2 3 1	29°34'01	3♉ 4	21°24	16°48	10°57	14°27	2°57	2°16	24°43	14°17	5°D51	6° 4	2°16	n.a.	M26
T 27	2 6 58	0♏34'51	15°33	22°20	18° 3	11°34	14°23	2°56	2°16	24°44	14°16	5°52	6° 1	2°23	n.a.	T 27
W28	2 10 54	1°35'42	27°49	23°12	19°19	12°11	14°19	2°55	2°15	24°46	14°15	5°52	5°58	2°29	n.a.	W28
T 29	2 14 51	2°36'34	9♊54	23°58	20°35	12°49	14°14	2°54	2°14	24°47	14°15	5°52	5°54	2°36	n.a.	T 29
F 30	2 18 47	3°37'28	21°51	24°39	21°50	13°26	14°10	2°53	2°13	24°49	14°14	5°53	5°51	2°43	n.a.	F 30
S 31	2 22 44	4♏38'24	3♋43	25♏13	23♎ 6	14♍ 3	14♊ 5	2♋51	2♋12	24♐50	14♓13	5♏53	5♏48	2♋49	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	1s45	18n34	2s17	8s 1	1s 0	7n12	1n31	14n27	1n21	22n29	0s23	23n18	0s23	24n 2	0n20	22s51	0n44	22s 7	17s29	13s44	14s 8	19n39			n.a.
F 2	2 9	19 33	3 12	8 42	1 6	6 43	1 31	14 15	1 21	22 29	0 23	23 18	0 23	24 2	0 20	22 51	0 44	22 7	17 29	13 45	14 7	19 38			n.a.
S 3	2 33	19 40	3 59	9 22	1 13	6 14	1 31	14 2	1 21	22 30	0 22	23 18	0 23	24 2	0 20	22 51	0 44	22 7	17 29	13 46	14 6	19 38			n.a.
S 4	2 57	18 54	4 36	10 2	1 19	5 44	1 31	13 49	1 21	22 30	0 22	23 18	0 23	24 2	0 20	22 51	0 44	22 8	17 29	13 46	14 5	19 37			n.a.
M 5	3 21	17 18	5 1	10 41	1 25	5 14	1 31	13 36	1 21	22 30	0 22	23 18	0 22	24 2	0 20	22 51	0 44	22 8	17 28	13 46	14 4	19 37			n.a.
T 6	3 45	14 56	5 13	11 19	1 31	4 44	1 31	13 23	1 22	22 30	0 22	23 18	0 22	24 2	0 21	22 51	0 44	22 8	17 28	13 45	14 3	19 36			n.a.
W 7	4 9	11 53	5 11	11 57	1 37	4 14	1 31	13 10	1 22	22 30	0 22	23 18	0 22	24 2	0 21	22 51	0 44	22 8	17 28	13 44	14 2	19 36			n.a.
T 8	4 33	8 13	4 55	12 34	1 43	3 43	1 31	12 57	1 22	22 30	0 22	23 18	0 22	24 2	0 21	22 51	0 44	22 9	17 28	13 43	14 1	19 35			n.a.
F 9	4 57	4 6	4 23	13 10	1 48	3 13	1 30	12 44	1 22	22 30	0 22	23 18	0 22	24 2	0 21	22 51	0 44	22 9	17 28	13 41	14 0	19 35			n.a.
S 10	5 21	0s19	3 37	13 46	1 54	2 42	1 30	12 31	1 22	22 30	0 22	23 19	0 22	24 2	0 21	22 51	0 44	22 9	17 28	13 40	13 59	19 34			n.a.
S 11	5 44	4 50	2 37	14 21	1 59	2 12	1 30	12 18	1 23	22 30	0 22	23 19	0 22	24 2	0 21	22 52	0 44	22 9	17 27	13 39	13 58	19 33			n.a.
M12	6 8	9 12	1 27	14 55	2 4	1 41	1 29	12 4	1 23	22 30	0 22	23 19	0 22	24 2	0 21	22 52	0 44	22 10	17 27	13 38	13 56	19 33			n.a.
T 13	6 32	13 8	0 11	15 28	2 8	1 10	1 29	11 51	1 23	22 30	0 22	23 19	0 22	24 2	0 21	22 52	0 44	22 10	17 27	13 38	13 55	19 32			n.a.
W14	6 55	16 21	1n 7	16 0	2 13	0 39	1 28	11 37	1 23	22 30	0 22	23 19	0 22	24 2	0 21	22 52	0 44	22 10	17 27	13 38	13 54	19 32			n.a.
T 15	7 18	18 35	2 22	16 31	2 17	0 8	1 27	11 24	1 23	22 30	0 22	23 19	0 22	24 2	0 21	22 52	0 44	22 10	17 27	13 39	13 53	19 31			n.a.
F 16	7 42	19 37	3 28	17 1	2 20	0s23	1 26	11 10	1 24	22 30	0 22	23 19	0 22	24 2	0 21	22 52	0 44	22 10	17 26	13 39	13 52	19 31			n.a.
S 17	8 5	19 22	4 20	17 30	2 24	0 54	1 26	10 56	1 24	22 29	0 21	23 19	0 22	24 2	0 21	22 52	0 44	22 11	17 26	13 39	13 51	19 30			n.a.
S 18	8 28	17 54	4 57	17 58	2 27	1 25	1 25	10 43	1 24	22 29	0 21	23 19	0 22	24 2	0 21	22 52	0 44	22 11	17 26	13 40	13 50	19 29			n.a.
M19	8 51	15 21	5 15	18 24	2 29	1 56	1 24	10 29	1 24	22 29	0 21	23 19	0 22	24 2	0 21	22 52	0 44	22 11	17 26	13 40	13 49	19 29			n.a.
T 20	9 13	11 57	5 14	18 49	2 31	2 26	1 23	10 15	1 24	22 29	0 21	23 19	0 22	24 2	0 21	22 52	0 44	22 11	17 25	13 39	13 48	19 28			n.a.
W21	9 36	7 56	4 55	19 13	2 33	2 57	1 22	10 1	1 24	22 29	0 21	23 19	0 21	24 2	0 21	22 52	0 44	22 11	17 25	13 39	13 47	19 28			n.a.
T 22	9 58	3 34	4 20	19 35	2 34	3 28	1 21	9 47	1 25	22 28	0 21	23 19	0 21	24 2	0 21	22 52	0 44	22 11	17 25	13 39	13 46	19 27			n.a.
F 23	10 21	0n55	3 31	19 55	2 35	3 59	1 19	9 33	1 25	22 28	0 21	23 19	0 21	24 2	0 21	22 53	0 44	22 11	17 25	13 38	13 45	19 27			n.a.
S 24	10 43	5 18	2 31	20 14	2 35	4 30	1 18	9 19	1 25	22 28	0 21	23 19	0 21	24 2	0 21	22 53	0 43	22 11	17 24	13 38	13 44	19 26			n.a.
S 25	11 5	9 21	1 25	20 31	2 34	5 0	1 17	9 5	1 25	22 27	0 21	23 19	0 21	24 2	0 21	22 53	0 43	22 11	17 24	13 38	13 43	19 25			n.a.
M26	11 27	12 55	0 15	20 46	2 32	5 31	1 15	8 51	1 25	22 27	0 21	23 20	0 21	24 3	0 21	22 53	0 43	22 12	17 24	13 37	13 42	19 25			n.a.
T 27	11 48	15 50	0s54	20 58	2 30	6 1	1 14	8 37	1 25	22 27	0 21	23 20	0 21	24 3	0 21	22 53	0 43	22 12	17 24	13 37	13 41	19 24			n.a.
W28	12 10	17 58	1 59	21 8	2 26	6 32	1 13	8 23	1 26	22 26	0 21	23 20	0 21	24 3	0 21	22 53	0 43	22 12	17 23	13 38	13 39	19 24			n.a.
T 29	12 31	19 15	2 58	21 16	2 22	7 2	1 11	8 9	1 26	22 26	0 20	23 20	0 21	24 3	0 21	22 53	0 43	22 12	17 23	13 38	13 38	19 23			n.a.
F 30	12 52	19 39	3 49	21 21	2 16	7 32	1 9	7 54	1 26	22 25	0 20	23 20	0 21	24 3	0 21	22 53	0 43	22 12	17 23	13 38	13 37	19 22			n.a.
S 31	13s13	19n11	4s29	21s23	2s 9	8s 2	1n 8	7n40	1n26	22n25	0s20	23n20	0s21	24n 3	0n21	22s53	0n43	22s12	17s22	13s38	13s36	19n22			n.a.

Julian Day Number = 1668004.5, Delta T = 03h22m06s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'10, Lahiri = - 5°58'09 Julian Calendar 1 Oct. 147 BCE == Greg. Calendar 28 Sept. 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

NOVEMBER 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 26 41	5♏39'21	15♋34	25♏40	24♎21	14♍40	14°R 0	2°R50	2°R11	24♐52	14°R13	5°R53	5♏45	2♋56	n.a.	S 1
M 2	2 30 37	6°40'19	27°27	25°59	25°37	15°17	13♊55	2♋48	2♋10	24°54	14♓12	5♏53	5°42	3° 3	n.a.	M 2
T 3	2 34 34	7°41'18	9♌28	26° 9	26°52	15°54	13°50	2°47	2° 9	24°55	14°11	5°D53	5°38	3° 9	n.a.	T 3
W 4	2 38 30	8°42'19	21°42	26°R10	28° 8	16°30	13°45	2°45	2° 7	24°57	14°11	5°53	5°35	3°16	n.a.	W 4
T 5	2 42 27	9°43'21	4♍12	26° 0	29°23	17° 7	13°39	2°43	2° 6	24°59	14°10	5°53	5°32	3°23	n.a.	T 5
F 6	2 46 23	10°44'25	17° 4	25°39	0♏39	17°44	13°33	2°41	2° 5	25° 0	14°10	5°54	5°29	3°30	n.a.	F 6
S 7	2 50 20	11°45'29	0♎18	25° 6	1°55	18°21	13°27	2°39	2° 4	25° 2	14° 9	5°54	5°26	3°36	n.a.	S 7
S 8	2 54 16	12°46'35	13°58	24°23	3°10	18°58	13°21	2°37	2° 2	25° 4	14° 8	5°55	5°23	3°43	n.a.	S 8
M 9	2 58 13	13°47'42	28° 1	23°28	4°26	19°35	13°15	2°34	2° 1	25° 6	14° 8	5°55	5°19	3°50	n.a.	M 9
T 10	3 2 10	14°48'49	12♏25	22°24	5°41	20°12	13° 9	2°32	1°59	25° 8	14° 7	5°R55	5°16	3°56	n.a.	T 10
W11	3 6 6	15°49'58	27° 6	21°12	6°57	20°49	13° 3	2°29	1°58	25° 9	14° 7	5°55	5°13	4° 3	n.a.	W11
T 12	3 10 3	16°51'08	11♐55	19°53	8°13	21°25	12°56	2°27	1°56	25°11	14° 7	5°54	5°10	4°10	n.a.	T 12
F 13	3 13 59	17°52'18	26°45	18°31	9°28	22° 2	12°49	2°24	1°54	25°13	14° 6	5°52	5° 7	4°16	n.a.	F 13
S 14	3 17 56	18°53'28	11♑29	17° 9	10°44	22°39	12°43	2°21	1°53	25°15	14° 6	5°51	5° 4	4°23	n.a.	S 14
S 15	3 21 52	19°54'39	26° 0	15°48	11°59	23°15	12°36	2°18	1°51	25°17	14° 5	5°49	5° 0	4°30	n.a.	S 15
M16	3 25 49	20°55'51	10♒15	14°31	13°15	23°52	12°29	2°15	1°49	25°19	14° 5	5°48	4°57	4°37	n.a.	M16
T 17	3 29 46	21°57'02	24°11	13°22	14°31	24°29	12°21	2°12	1°48	25°21	14° 5	5°D48	4°54	4°43	n.a.	T 17
W18	3 33 42	22°58'14	7♓48	12°21	15°46	25° 5	12°14	2° 9	1°46	25°23	14° 4	5°49	4°51	4°50	n.a.	W18
T 19	3 37 39	23°59'26	21° 7	11°30	17° 2	25°42	12° 7	2° 6	1°44	25°25	14° 4	5°50	4°48	4°57	n.a.	T 19
F 20	3 41 35	25° 0'38	4♈ 9	10°50	18°17	26°18	11°59	2° 2	1°42	25°27	14° 4	5°51	4°44	5° 3	n.a.	F 20
S 21	3 45 32	26° 1'50	16°56	10°21	19°33	26°55	11°52	1°59	1°40	25°29	14° 3	5°53	4°41	5°10	n.a.	S 21
S 22	3 49 28	27° 3'03	29°31	10° 3	20°48	27°31	11°44	1°55	1°38	25°31	14° 3	5°54	4°38	5°17	n.a.	S 22
M23	3 53 25	28° 4'15	11♉54	9°D55	22° 4	28° 8	11°37	1°52	1°36	25°33	14° 3	5°R54	4°35	5°23	n.a.	M23
T 24	3 57 21	29° 5'29	24° 8	9°57	23°20	28°44	11°29	1°48	1°34	25°35	14° 3	5°53	4°32	5°30	n.a.	T 24
W25	4 1 18	0♐ 6'42	6♊14	10° 9	24°35	29°21	11°21	1°44	1°32	25°37	14° 3	5°50	4°29	5°37	n.a.	W25
T 26	4 5 15	1° 7'56	18°13	10°28	25°51	29°57	11°13	1°41	1°30	25°39	14° 2	5°46	4°25	5°44	n.a.	T 26
F 27	4 9 11	2° 9'10	0♋ 8	10°55	27° 6	0♎33	11° 5	1°37	1°28	25°41	14° 2	5°42	4°22	5°50	n.a.	F 27
S 28	4 13 8	3°10'24	11°59	11°29	28°22	1°10	10°57	1°33	1°25	25°44	14° 2	5°37	4°19	5°57	n.a.	S 28
S 29	4 17 4	4°11'39	23°50	12°10	29°37	1°46	10°49	1°29	1°23	25°46	14° 2	5°32	4°16	6° 4	n.a.	S 29
M30	4 21 1	5♐12'53	5♌43	12♏55	0♐53	2♎22	10♊41	1♋24	1♋21	25♐48	14♓ 2	5♏27	4♏13	6♋10	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s33	17n52	4s58	21s21	2s 1	8s31	1n 6	7n26	1n26	22n24	0s20	23n20	0s21	24n 3	0n21	22s53	0n43	22s12	17s22	13s38	13s35	19n21		n.a.
M 2	13 54	15 46	5 14	21 17	1 52	9 1	1 4	7 11	1 26	22 24	0 20	23 20	0 21	24 3	0 21	22 53	0 43	22 12	17 22	13 38	13 34	19 20		n.a.
T 3	14 14	12 59	5 17	21 9	1 41	9 30	1 3	6 57	1 26	22 23	0 20	23 20	0 21	24 3	0 21	22 54	0 43	22 12	17 22	13 38	13 33	19 20		n.a.
W 4	14 34	9 37	5 6	20 57	1 29	9 59	1 1	6 43	1 27	22 23	0 20	23 20	0 21	24 3	0 21	22 54	0 43	22 12	17 21	13 38	13 32	19 19		n.a.
T 5	14 53	5 44	4 40	20 41	1 15	10 28	0 59	6 28	1 27	22 22	0 20	23 21	0 20	24 3	0 21	22 54	0 43	22 12	17 21	13 38	13 31	19 19		n.a.
F 6	15 13	1 30	3 59	20 21	0 59	10 56	0 57	6 14	1 27	22 22	0 20	23 21	0 20	24 3	0 21	22 54	0 43	22 12	17 21	13 38	13 30	19 18		n.a.
S 7	15 32	2s57	3 5	19 57	0 42	11 25	0 55	5 59	1 27	22 21	0 20	23 21	0 20	24 3	0 21	22 54	0 43	22 11	17 20	13 38	13 29	19 17		n.a.
S 8	15 51	7 23	1 59	19 28	0 24	11 53	0 53	5 45	1 27	22 20	0 19	23 21	0 20	24 3	0 21	22 54	0 43	22 11	17 20	13 39	13 28	19 17		n.a.
M 9	16 10	11 34	0 44	18 56	0 5	12 20	0 51	5 30	1 27	22 20	0 19	23 21	0 20	24 3	0 21	22 54	0 43	22 11	17 20	13 39	13 27	19 16		n.a.
T 10	16 28	15 10	0n36	18 20	0n15	12 48	0 49	5 16	1 27	22 19	0 19	23 21	0 20	24 3	0 21	22 54	0 43	22 11	17 19	13 39	13 26	19 15		n.a.
W11	16 46	17 52	1 55	17 41	0 36	13 15	0 47	5 1	1 28	22 18	0 19	23 21	0 20	24 3	0 21	22 54	0 43	22 11	17 19	13 39	13 25	19 15		n.a.
T 12	17 4	19 23	3 7	17 1	0 56	13 42	0 45	4 47	1 28	22 18	0 19	23 21	0 20	24 3	0 22	22 54	0 43	22 11	17 19	13 38	13 23	19 14		n.a.
F 13	17 21	19 34	4 6	16 19	1 16	14 8	0 43	4 32	1 28	22 17	0 19	23 22	0 20	24 3	0 22	22 55	0 43	22 11	17 18	13 38	13 22	19 13		n.a.
S 14	17 38	18 25	4 48	15 38	1 35	14 34	0 41	4 18	1 28	22 16	0 19	23 22	0 20	24 3	0 22	22 55	0 43	22 11	17 18	13 37	13 21	19 13		n.a.
S 15	17 55	16 5	5 12	14 58	1 52	15 0	0 39	4 3	1 28	22 15	0 19	23 22	0 20	24 3	0 22	22 55	0 43	22 11	17 18	13 37	13 20	19 12		n.a.
M16	18 11	12 49	5 16	14 21	2 7	15 25	0 36	3 48	1 28	22 15	0 18	23 22	0 20	24 3	0 22	22 55	0 43	22 10	17 17	13 36	13 19	19 11		n.a.
T 17	18 28	8 53	5 0	13 48	2 21	15 50	0 34	3 34	1 28	22 14	0 18	23 22	0 19	24 4	0 22	22 55	0 43	22 10	17 17	13 36	13 18	19 11		n.a.
W18	18 43	4 35	4 29	13 19	2 32	16 14	0 32	3 19	1 28	22 13	0 18	23 22	0 19	24 4	0 22	22 55	0 43	22 10	17 17	13 37	13 17	19 10		n.a.
T 19	18 59	0 9	3 43	12 55	2 41	16 38	0 30	3 5	1 28	22 12	0 18	23 22	0 19	24 4	0 22	22 55	0 43	22 10	17 16	13 37	13 16	19 9		n.a.
F 20	19 14	4n12	2 47	12 36	2 47	17 2	0 27	2 50	1 28	22 11	0 18	23 22	0 19	24 4	0 22	22 55	0 43	22 10	17 16	13 37	13 15	19 9		n.a.
S 21	19 29	8 18	1 43	12 23	2 52	17 25	0 25	2 35	1 29	22 10	0 18	23 23	0 19	24 4	0 22	22 55	0 43	22 9	17 16	13 38	13 14	19 8		n.a.
S 22	19 43	11 58	0 35	12 15	2 54	17 48	0 23	2 21	1 29	22 9	0 18	23 23	0 19	24 4	0 22	22 55	0 43	22 9	17 15	13 38	13 13	19 7		n.a.
M23	19 57	15 3	0s33	12 11	2 55	18 10	0 20	2 6	1 29	22 8	0 18	23 23	0 19	24 4	0 22	22 55	0 43	22 9	17 15	13 38	13 12	19 6		n.a.
T 24	20 11	17 25	1 39	12 13	2 54	18 31	0 18	1 52	1 29	22 8	0 17	23 23	0 19	24 4	0 22	22 56	0 43	22 9	17 15	13 38	13 11	19 6		n.a.
W25	20 24	18 59	2 39	12 18	2 53	18 53	0 16	1 37	1 29	22 7	0 17	23 23	0 19	24 4	0 22	22 56	0 43	22 8	17 14	13 37	13 9	19 5		n.a.
T 26	20 37	19 40	3 32	12 27	2 49	19 13	0 13	1 23	1 29	22 6	0 17	23 23	0 19	24 4	0 22	22 56	0 43	22 8	17 14	13 36	13 8	19 4		n.a.
F 27	20 50	19 28	4 15	12 39	2 45	19 33	0 11	1 8	1 29	22 5	0 17	23 23	0 19	24 4	0 22	22 56	0 43	22 8	17 13	13 34	13 7	19 4		n.a.
S 28	21 2	18 24	4 47	12 55	2 40	19 53	0 9	0 54	1 29	22 4	0 17	23 24	0 19	24 4	0 22	22 56	0 43	22 8	17 13	13 32	13 6	19 3		n.a.
S 29	21 13	16 33	5 6	13 12	2 35	20 12	0 6	0 39	1 29	22 3	0 17	23 24	0 18	24 4	0 22	22 56	0 43	22 7	17 13	13 31	13 5	19 2		n.a.
M30	21s25	14n 0	5s13	13s32	2n29	20s30	0n 4	0n24	1n29	22n 2	0s17	23n24	0s18	24n 4	0n22	22s56	0n43	22s 7	17s12	13s29	13s 4	19n 2		n.a.

Julian Day Number = 1668035.5, Delta T = 03h22m05s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'06, Lahiri = - 5°58'05 Julian Calendar 1 Nov. 147 BCE == Greg. Calendar 29 Oct. 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 147 BCE
geocentric

DECEMBER 147 BCE (-146) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 24 57	6♐14'08	17♌43	13♏46	2♐ 8	2♎58	10°R33	1°R20	1°R19	25♐50	14°R 2	5°R24	4♏10	6♋17	n.a.	T 1
W 2	4 28 54	7°15'24	29°53	14°40	3°24	3°35	10♊25	1♋16	1♋16	25°52	14°D 2	5♏23	4° 6	6°24	n.a.	W 2
T 3	4 32 50	8°16'39	12♍18	15°39	4°39	4°11	10°17	1°12	1°14	25°54	14♓ 2	5°D22	4° 3	6°31	n.a.	T 3
F 4	4 36 47	9°17'55	25° 2	16°41	5°55	4°47	10° 9	1° 7	1°12	25°57	14° 2	5°23	4° 0	6°37	n.a.	F 4
S 5	4 40 44	10°19'11	8♎ 9	17°46	7°10	5°23	10° 1	1° 3	1° 9	25°59	14° 2	5°25	3°57	6°44	n.a.	S 5
S 6	4 44 40	11°20'27	21°44	18°54	8°26	5°59	9°53	0°59	1° 7	26° 1	14° 2	5°26	3°54	6°51	n.a.	S 6
M 7	4 48 37	12°21'43	5♏46	20° 4	9°41	6°35	9°44	0°54	1° 5	26° 3	14° 2	5°R27	3°50	6°57	n.a.	M 7
T 8	4 52 33	13°22'59	20°15	21°16	10°57	7°11	9°36	0°49	1° 2	26° 5	14° 3	5°26	3°47	7° 4	n.a.	T 8
W 9	4 56 30	14°24'15	5♐ 8	22°30	12°12	7°47	9°28	0°45	1° 0	26° 8	14° 3	5°23	3°44	7°11	n.a.	W 9
T 10	5 0 26	15°25'30	20°16	23°45	13°28	8°23	9°20	0°40	0°57	26°10	14° 3	5°19	3°41	7°18	n.a.	T 10
F 11	5 4 23	16°26'46	5♑29	25° 3	14°43	8°59	9°12	0°35	0°55	26°12	14° 3	5°13	3°38	7°24	n.a.	F 11
S 12	5 8 20	17°28'01	20°38	26°21	15°59	9°34	9° 4	0°31	0°52	26°14	14° 3	5° 6	3°35	7°31	n.a.	S 12
S 13	5 12 16	18°29'15	5♒33	27°41	17°14	10°10	8°56	0°26	0°50	26°17	14° 4	4°59	3°31	7°38	n.a.	S 13
M14	5 16 13	19°30'28	20° 6	29° 2	18°30	10°46	8°48	0°21	0°47	26°19	14° 4	4°54	3°28	7°44	n.a.	M14
T 15	5 20 9	20°31'41	4♓12	0♐25	19°45	11°21	8°41	0°16	0°45	26°21	14° 4	4°51	3°25	7°51	n.a.	T 15
W16	5 24 6	21°32'52	17°52	1°48	21° 1	11°57	8°33	0°12	0°42	26°24	14° 5	4°D50	3°22	7°58	n.a.	W16
T 17	5 28 2	22°34'03	1♈ 7	3°12	22°16	12°32	8°25	0° 7	0°40	26°26	14° 5	4°50	3°19	8° 5	n.a.	T 17
F 18	5 31 59	23°35'13	14° 0	4°37	23°31	13° 8	8°18	0° 2	0°37	26°28	14° 5	4°51	3°16	8°11	n.a.	F 18
S 19	5 35 55	24°36'22	26°34	6° 2	24°47	13°43	8°10	29♊57	0°34	26°30	14° 6	4°52	3°12	8°18	n.a.	S 19
S 20	5 39 52	25°37'30	8♉54	7°29	26° 2	14°19	8° 3	29°52	0°32	26°33	14° 6	4°R53	3° 9	8°25	n.a.	S 20
M21	5 43 49	26°38'37	21° 4	8°56	27°18	14°54	7°55	29°47	0°29	26°35	14° 6	4°51	3° 6	8°31	n.a.	M21
T 22	5 47 45	27°39'43	3♊ 6	10°24	28°33	15°29	7°48	29°42	0°27	26°37	14° 7	4°47	3° 3	8°38	n.a.	T 22
W23	5 51 42	28°40'48	15° 2	11°53	29°48	16° 5	7°41	29°37	0°24	26°39	14° 7	4°40	3° 0	8°45	n.a.	W23
T 24	5 55 38	29°41'52	26°56	13°22	1♑ 4	16°40	7°34	29°32	0°21	26°42	14° 8	4°32	2°56	8°51	n.a.	T 24
F 25	5 59 35	0♑42'56	8♋48	14°52	2°19	17°15	7°27	29°27	0°19	26°44	14° 8	4°21	2°53	8°58	n.a.	F 25
S 26	6 3 31	1°43'58	20°40	16°23	3°34	17°50	7°20	29°22	0°16	26°46	14° 9	4° 9	2°50	9° 5	n.a.	S 26
S 27	6 7 28	2°45'00	2♌34	17°54	4°49	18°25	7°13	29°17	0°14	26°49	14°10	3°57	2°47	9°12	n.a.	S 27
M28	6 11 24	3°46'00	14°30	19°26	6° 5	19° 0	7° 7	29°12	0°11	26°51	14°10	3°47	2°44	9°18	n.a.	M28
T 29	6 15 21	4°47'00	26°32	20°59	7°20	19°35	7° 0	29° 8	0° 8	26°53	14°11	3°38	2°41	9°25	n.a.	T 29
W30	6 19 18	5°47'59	8♍43	22°32	8°35	20°10	6°54	29° 3	0° 6	26°55	14°11	3°32	2°37	9°32	n.a.	W30
T 31	6 23 14	6♑48'57	21♍ 6	24♐ 6	9♑51	20♎44	6♊48	28♊58	0♋ 3	26♐58	14♓12	3♏28	2♏34	9♋38	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21s36	10n51	5s 6	13s53	2n22	20s48	0n 1	0n10	1n29	22n 1	0s16	23n24	0s18	24n 4	0n22	22s56	0n43	22s 7	17s12	13s28	13s 3	19n 1		n.a.
W 2	21 46	7 12	4 45	14 16	2 15	21 5	0s 1	0s 4	1 29	22 0	0 16	23 24	0 18	24 4	0 22	22 56	0 42	22 6	17 12	13 28	13 2	19 0		n.a.
T 3	21 56	3 10	4 10	14 41	2 8	21 22	0 3	0 19	1 29	21 59	0 16	23 24	0 18	24 4	0 22	22 56	0 42	22 6	17 11	13 28	13 1	18 59		n.a.
F 4	22 6	1s 6	3 23	15 6	2 0	21 38	0 6	0 33	1 29	21 58	0 16	23 24	0 18	24 4	0 22	22 56	0 42	22 6	17 11	13 28	13 0	18 59		n.a.
S 5	22 15	5 28	2 23	15 32	1 52	21 53	0 8	0 48	1 29	21 57	0 16	23 25	0 18	24 4	0 22	22 57	0 42	22 5	17 10	13 28	12 59	18 58		n.a.
S 6	22 24	9 42	1 14	15 58	1 44	22 8	0 10	1 2	1 29	21 55	0 16	23 25	0 18	24 4	0 22	22 57	0 42	22 5	17 10	13 29	12 58	18 57		n.a.
M 7	22 32	13 34	0n 2	16 25	1 36	22 22	0 13	1 17	1 29	21 54	0 16	23 25	0 18	24 4	0 22	22 57	0 42	22 4	17 10	13 29	12 56	18 56		n.a.
T 8	22 40	16 44	1 20	16 52	1 28	22 35	0 15	1 31	1 29	21 53	0 15	23 25	0 18	24 4	0 22	22 57	0 42	22 4	17 9	13 29	12 55	18 56		n.a.
W 9	22 47	18 52	2 34	17 19	1 20	22 48	0 18	1 45	1 29	21 52	0 15	23 25	0 17	24 4	0 22	22 57	0 42	22 4	17 9	13 28	12 54	18 55		n.a.
T 10	22 54	19 42	3 39	17 46	1 12	23 0	0 20	1 59	1 30	21 51	0 15	23 25	0 17	24 4	0 22	22 57	0 42	22 3	17 9	13 26	12 53	18 54		n.a.
F 11	23 1	19 7	4 29	18 13	1 3	23 11	0 22	2 14	1 30	21 50	0 15	23 25	0 17	24 5	0 22	22 57	0 42	22 3	17 8	13 24	12 52	18 53		n.a.
S 12	23 7	17 10	4 59	18 40	0 55	23 22	0 24	2 28	1 30	21 49	0 15	23 25	0 17	24 5	0 22	22 57	0 42	22 2	17 8	13 22	12 51	18 53		n.a.
S 13	23 12	14 6	5 9	19 6	0 47	23 32	0 27	2 42	1 30	21 48	0 15	23 26	0 17	24 5	0 22	22 57	0 42	22 2	17 8	13 20	12 50	18 52		n.a.
M14	23 17	10 14	4 58	19 32	0 39	23 41	0 29	2 56	1 30	21 47	0 14	23 26	0 17	24 5	0 22	22 57	0 42	22 2	17 7	13 18	12 49	18 51		n.a.
T 15	23 22	5 54	4 30	19 58	0 31	23 50	0 31	3 10	1 29	21 46	0 14	23 26	0 17	24 5	0 22	22 57	0 42	22 1	17 7	13 17	12 48	18 50		n.a.
W16	23 26	1 23	3 46	20 23	0 23	23 57	0 33	3 24	1 29	21 45	0 14	23 26	0 17	24 5	0 22	22 57	0 42	22 1	17 6	13 17	12 47	18 50		n.a.
T 17	23 30	3n 5	2 52	20 47	0 15	24 4	0 36	3 38	1 29	21 44	0 14	23 26	0 17	24 5	0 22	22 57	0 42	22 0	17 6	13 17	12 46	18 49		n.a.
F 18	23 33	7 16	1 50	21 11	0 8	24 11	0 38	3 52	1 29	21 43	0 14	23 26	0 17	24 5	0 22	22 58	0 42	22 0	17 6	13 17	12 44	18 48		n.a.
S 19	23 36	11 3	0 45	21 34	0s 0	24 16	0 40	4 6	1 29	21 42	0 14	23 26	0 16	24 5	0 22	22 58	0 42	21 59	17 5	13 17	12 43	18 47		n.a.
S 20	23 38	14 17	0s22	21 56	0 7	24 21	0 42	4 20	1 29	21 41	0 13	23 26	0 16	24 5	0 22	22 58	0 42	21 59	17 5	13 18	12 42	18 46		n.a.
M21	23 40	16 51	1 26	22 17	0 15	24 25	0 44	4 34	1 29	21 40	0 13	23 26	0 16	24 5	0 22	22 58	0 42	21 58	17 5	13 17	12 41	18 46		n.a.
T 22	23 41	18 38	2 26	22 37	0 22	24 28	0 46	4 48	1 29	21 39	0 13	23 27	0 16	24 5	0 22	22 58	0 42	21 58	17 4	13 16	12 40	18 45		n.a.
W23	23 42	19 35	3 18	22 57	0 29	24 31	0 48	5 1	1 29	21 38	0 13	23 27	0 16	24 5	0 22	22 58	0 42	21 57	17 4	13 13	12 39	18 44		n.a.
T 24	23 43	19 39	4 2	23 15	0 36	24 32	0 50	5 15	1 29	21 37	0 13	23 27	0 16	24 5	0 22	22 58	0 42	21 57	17 4	13 10	12 38	18 43		n.a.
F 25	23 43	18 51	4 35	23 32	0 42	24 33	0 52	5 29	1 29	21 36	0 13	23 27	0 16	24 5	0 22	22 58	0 42	21 56	17 3	13 7	12 37	18 42		n.a.
S 26	23 42	17 14	4 56	23 49	0 49	24 33	0 54	5 42	1 29	21 35	0 12	23 27	0 16	24 5	0 22	22 58	0 42	21 56	17 3	13 3	12 36	18 42		n.a.
S 27	23 41	14 53	5 4	24 4	0 55	24 33	0 56	5 56	1 29	21 34	0 12	23 27	0 16	24 5	0 22	22 58	0 42	21 55	17 3	12 59	12 35	18 41		n.a.
M28	23 39	11 54	4 59	24 18	1 1	24 31	0 57	6 9	1 29	21 33	0 12	23 27	0 15	24 5	0 22	22 58	0 42	21 55	17 2	12 55	12 33	18 40		n.a.
T 29	23 37	8 25	4 40	24 31	1 7	24 29	0 59	6 23	1 29	21 32	0 12	23 27	0 15	24 5	0 22	22 58	0 42	21 54	17 2	12 52	12 32	18 39		n.a.
W30	23 35	4 33	4 9	24 42	1 12	24 26	1 1	6 36	1 29	21 31	0 12	23 27	0 15	24 5	0 22	22 58	0 42	21 53	17 1	12 50	12 31	18 38		n.a.
T 31	23s32	0n25	3s26	24s52	1s18	24s23	1s 2	6s49	1n28	21n30	0s12	23n27	0s15	24n 5	0n22	22s58	0n42	21s53	17s 1	12s49	12s30	18n38		n.a.

Julian Day Number = 1668065.5, Delta T = 03h22m04s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°05'02, Lahiri = - 5°58'01 Julian Calendar 1 Dec. 147 BCE == Greg. Calendar 28 Nov. 147 BCE

The year -146 astronomical counting style corresponds to year 147 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

JANUARY 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 27 11	7♉49'54	3♎45	25♐40	11♉ 6	21♎19	6°R42	28°R53	0°R 1	27♐ 0	14♓13	3°D27	2♏31	9♋45	n.a.	F 1
S 2	6 31 7	8°50'51	16°44	27°16	12°21	21°54	6♊36	28♊48	29♊58	27° 2	14°13	3♏27	2°28	9°52	n.a.	S 2
S 3	6 35 4	9°51'46	0♏ 8	28°52	13°36	22°28	6°30	28°43	29°55	27° 4	14°14	3°R27	2°25	9°59	n.a.	S 3
M 4	6 39 0	10°52'40	13°59	0♉28	14°51	23° 3	6°25	28°38	29°53	27° 7	14°15	3°27	2°22	10° 5	n.a.	M 4
T 5	6 42 57	11°53'34	28°18	2° 6	16° 7	23°37	6°19	28°34	29°50	27° 9	14°16	3°24	2°18	10°12	n.a.	T 5
W 6	6 46 53	12°54'26	13♐ 4	3°44	17°22	24°12	6°14	28°29	29°48	27°11	14°16	3°20	2°15	10°19	n.a.	W 6
T 7	6 50 50	13°55'18	28°12	5°23	18°37	24°46	6° 9	28°24	29°45	27°13	14°17	3°12	2°12	10°25	n.a.	T 7
F 8	6 54 47	14°56'08	13♉31	7° 3	19°52	25°20	6° 4	28°20	29°43	27°15	14°18	3° 2	2° 9	10°32	n.a.	F 8
S 9	6 58 43	15°56'56	28°51	8°43	21° 7	25°54	5°59	28°15	29°40	27°18	14°19	2°51	2° 6	10°39	n.a.	S 9
S 10	7 2 40	16°57'44	14♒ 1	10°24	22°23	26°28	5°55	28°11	29°38	27°20	14°20	2°40	2° 2	10°46	n.a.	S 10
M11	7 6 36	17°58'29	28°49	12° 6	23°38	27° 2	5°50	28° 6	29°35	27°22	14°21	2°31	1°59	10°52	n.a.	M11
T 12	7 10 33	18°59'13	13♓10	13°49	24°53	27°36	5°46	28° 2	29°33	27°24	14°21	2°24	1°56	10°59	n.a.	T 12
W13	7 14 29	19°59'55	27° 1	15°33	26° 8	28°10	5°42	27°57	29°31	27°26	14°22	2°20	1°53	11° 6	n.a.	W13
T 14	7 18 26	21° 0'35	10♈22	17°17	27°23	28°44	5°38	27°53	29°28	27°28	14°23	2°18	1°50	11°12	n.a.	T 14
F 15	7 22 22	22° 1'13	23°17	19° 3	28°38	29°17	5°35	27°49	29°26	27°30	14°24	2°D17	1°47	11°19	n.a.	F 15
S 16	7 26 19	23° 1'49	5♉50	20°49	29°53	29°51	5°31	27°44	29°23	27°33	14°25	2°R18	1°43	11°26	n.a.	S 16
S 17	7 30 16	24° 2'24	18° 5	22°36	1♒ 8	0♏24	5°28	27°40	29°21	27°35	14°26	2°17	1°40	11°33	n.a.	S 17
M18	7 34 12	25° 2'56	0♊ 9	24°24	2°23	0°58	5°25	27°36	29°19	27°37	14°27	2°14	1°37	11°39	n.a.	M18
T 19	7 38 9	26° 3'27	12° 4	26°13	3°38	1°31	5°22	27°32	29°17	27°39	14°28	2° 8	1°34	11°46	n.a.	T 19
W20	7 42 5	27° 3'56	23°56	28° 2	4°53	2° 4	5°19	27°28	29°14	27°41	14°29	2° 0	1°31	11°53	n.a.	W20
T 21	7 46 2	28° 4'23	5♋46	29°53	6° 8	2°37	5°17	27°24	29°12	27°43	14°30	1°49	1°28	11°59	n.a.	T 21
F 22	7 49 58	29° 4'48	17°38	1♒44	7°23	3°10	5°14	27°20	29°10	27°45	14°31	1°35	1°24	12° 6	n.a.	F 22
S 23	7 53 55	0♒ 5'12	29°33	3°36	8°38	3°43	5°12	27°17	29° 8	27°47	14°32	1°20	1°21	12°13	n.a.	S 23
S 24	7 57 51	1° 5'33	11♌32	5°28	9°53	4°16	5°10	27°13	29° 6	27°49	14°33	1° 5	1°18	12°20	n.a.	S 24
M25	8 1 48	2° 5'53	23°36	7°21	11° 7	4°48	5° 8	27° 9	29° 4	27°51	14°35	0°52	1°15	12°26	n.a.	M25
T 26	8 5 45	3° 6'11	5♍47	9°14	12°22	5°21	5° 7	27° 6	29° 2	27°53	14°36	0°40	1°12	12°33	n.a.	T 26
W27	8 9 41	4° 6'27	18° 5	11° 8	13°37	5°53	5° 6	27° 2	29° 0	27°55	14°37	0°32	1° 8	12°40	n.a.	W27
T 28	8 13 38	5° 6'42	0♎35	13° 2	14°52	6°26	5° 4	26°59	28°58	27°57	14°38	0°26	1° 5	12°46	n.a.	T 28
F 29	8 17 34	6° 6'55	13°17	14°56	16° 7	6°58	5° 3	26°56	28°56	27°59	14°39	0°24	1° 2	12°53	n.a.	F 29
S 30	8 21 31	7° 7'06	26°15	16°49	17°21	7°30	5° 3	26°53	28°54	28° 0	14°40	0°23	0°59	13° 0	n.a.	S 30
S 31	8 25 27	8♒ 7'16	9♏33	18♒43	18♒36	8♏ 2	5♊ 2	26♊49	28♊52	28♐ 2	14♓41	0♏23	0♏56	13♋ 7	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s29	3s49	2s31	25s 1	1s23	24s18	1s 4	7s 3	1n28	21n29	0s11	23n27	0s15	24n 5	0n22	22s58	0n42	21s52	17s 1	12s48	12s29	18n37		n.a.
S 2	23 25	8 0	1 28	25 8	1 28	24 13	1 6	7 16	1 28	21 28	0 11	23 27	0 15	24 5	0 22	22 59	0 42	21 52	17 0	12 48	12 28	18 36		n.a.
S 3	23 20	11 55	0 18	25 14	1 32	24 7	1 7	7 29	1 28	21 27	0 11	23 28	0 15	24 5	0 22	22 59	0 42	21 51	17 0	12 48	12 27	18 35		n.a.
M 4	23 16	15 20	0n56	25 19	1 36	24 1	1 9	7 42	1 28	21 27	0 11	23 28	0 15	24 5	0 22	22 59	0 42	21 51	17 0	12 48	12 26	18 34		n.a.
T 5	23 10	17 56	2 8	25 22	1 40	23 53	1 10	7 55	1 28	21 26	0 11	23 28	0 15	24 5	0 22	22 59	0 42	21 50	17 0	12 47	12 25	18 33		n.a.
W 6	23 5	19 25	3 14	25 23	1 44	23 45	1 12	8 8	1 28	21 25	0 11	23 28	0 14	24 5	0 22	22 59	0 42	21 49	16 59	12 46	12 23	18 33		n.a.
T 7	22 58	19 34	4 8	25 23	1 47	23 36	1 13	8 21	1 27	21 24	0 10	23 28	0 14	24 5	0 22	22 59	0 42	21 49	16 59	12 43	12 22	18 32		n.a.
F 8	22 52	18 18	4 44	25 22	1 50	23 27	1 14	8 33	1 27	21 24	0 10	23 28	0 14	24 5	0 22	22 59	0 42	21 48	16 59	12 40	12 21	18 31		n.a.
S 9	22 45	15 43	5 1	25 18	1 53	23 16	1 15	8 46	1 27	21 23	0 10	23 28	0 14	24 5	0 22	22 59	0 42	21 48	16 58	12 36	12 20	18 30		n.a.
S 10	22 37	12 5	4 56	25 13	1 56	23 5	1 17	8 59	1 27	21 22	0 10	23 28	0 14	24 5	0 22	22 59	0 42	21 47	16 58	12 32	12 19	18 29		n.a.
M11	22 29	7 47	4 31	25 6	1 58	22 53	1 18	9 11	1 27	21 22	0 10	23 28	0 14	24 5	0 22	22 59	0 42	21 46	16 58	12 29	12 18	18 28		n.a.
T 12	22 21	3 10	3 49	24 58	1 59	22 41	1 19	9 24	1 27	21 21	0 10	23 28	0 14	24 5	0 22	22 59	0 42	21 46	16 57	12 27	12 17	18 28		n.a.
W13	22 12	1n29	2 55	24 47	2 1	22 28	1 20	9 36	1 26	21 21	0 9	23 28	0 14	24 5	0 22	22 59	0 42	21 45	16 57	12 25	12 16	18 27		n.a.
T 14	22 3	5 53	1 53	24 35	2 1	22 14	1 21	9 48	1 26	21 20	0 9	23 28	0 13	24 5	0 22	22 59	0 42	21 44	16 57	12 24	12 15	18 26		n.a.
F 15	21 53	9 53	0 48	24 21	2 2	22 0	1 22	10 0	1 26	21 20	0 9	23 28	0 13	24 5	0 22	22 59	0 42	21 44	16 56	12 24	12 14	18 25		n.a.
S 16	21 43	13 19	0s19	24 5	2 2	21 45	1 22	10 13	1 26	21 19	0 9	23 28	0 13	24 5	0 22	22 59	0 42	21 43	16 56	12 24	12 12	18 24		n.a.
S 17	21 33	16 5	1 23	23 47	2 1	21 29	1 23	10 25	1 25	21 19	0 9	23 28	0 13	24 5	0 22	22 59	0 42	21 42	16 56	12 24	12 11	18 23		n.a.
M18	21 22	18 6	2 22	23 27	2 0	21 13	1 24	10 37	1 25	21 18	0 9	23 28	0 13	24 5	0 22	22 59	0 42	21 42	16 56	12 23	12 10	18 22		n.a.
T 19	21 11	19 18	3 14	23 6	1 59	20 56	1 24	10 49	1 25	21 18	0 8	23 28	0 13	24 5	0 22	22 59	0 42	21 41	16 55	12 21	12 9	18 22		n.a.
W20	20 59	19 38	3 57	22 42	1 57	20 38	1 25	11 0	1 24	21 18	0 8	23 28	0 13	24 5	0 22	22 59	0 42	21 40	16 55	12 18	12 8	18 21		n.a.
T 21	20 47	19 6	4 30	22 16	1 54	20 20	1 26	11 12	1 24	21 17	0 8	23 29	0 13	24 5	0 22	22 59	0 42	21 40	16 55	12 14	12 7	18 20		n.a.
F 22	20 34	17 44	4 51	21 49	1 51	20 1	1 26	11 24	1 24	21 17	0 8	23 29	0 12	24 5	0 22	22 59	0 42	21 39	16 55	12 9	12 6	18 19		n.a.
S 23	20 22	15 36	4 59	21 19	1 48	19 42	1 26	11 35	1 24	21 17	0 8	23 29	0 12	24 5	0 22	22 59	0 42	21 39	16 54	12 4	12 5	18 18		n.a.
S 24	20 9	12 48	4 54	20 47	1 44	19 22	1 27	11 47	1 23	21 17	0 8	23 29	0 12	24 5	0 22	22 59	0 42	21 38	16 54	11 59	12 3	18 17		n.a.
M25	19 55	9 27	4 37	20 14	1 39	19 1	1 27	11 58	1 23	21 17	0 7	23 29	0 12	24 5	0 22	23 0	0 42	21 37	16 54	11 54	12 2	18 16		n.a.
T 26	19 41	5 41	4 6	19 39	1 33	18 41	1 27	12 9	1 22	21 16	0 7	23 29	0 12	24 5	0 22	23 0	0 42	21 37	16 54	11 50	12 1	18 15		n.a.
W27	19 27	1 39	3 23	19 2	1 27	18 19	1 27	12 21	1 22	21 16	0 7	23 29	0 12	24 5	0 22	23 0	0 42	21 36	16 53	11 47	12 0	18 14		n.a.
T 28	19 12	2s32	2 30	18 23	1 20	17 57	1 27	12 32	1 22	21 16	0 7	23 29	0 12	24 5	0 22	23 0	0 42	21 35	16 53	11 45	11 59	18 14		n.a.
F 29	18 57	6 40	1 29	17 42	1 13	17 35	1 27	12 43	1 21	21 16	0 7	23 29	0 12	24 5	0 22	23 0	0 42	21 35	16 53	11 44	11 58	18 13		n.a.
S 30	18 42	10 35	0 22	17 0	1 5	17 12	1 27	12 54	1 21	21 16	0 7	23 29	0 11	24 5	0 22	23 0	0 42	21 34	16 53	11 44	11 57	18 12		n.a.
S 31	18s27	14s 4	0n48	16s17	0s56	16s48	1s27	13s 5	1n21	21n16	0s 6	23n29	0s11	24n 5	0n22	23s 0	0n42	21s33	16s52	11s44	11s56	18n11		n.a.

Julian Day Number = 1668096.5, Delta T = 03h22m03s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'57, Lahiri = - 5°57'57 Julian Calendar 1 Jan. 146 BCE == Greg. Calendar 29 Dec. 147 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

FEBRUARY 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 29 24	9♒ 7'24	23♏14	20♒35	19♒51	8♏34	5°R 2	26°R46	28°R50	28♐ 4	14♓43	0°R22	0♏53	13♋13	n.a.	M 1
T 2	8 33 20	10° 7'30	7♐19	22°26	21° 6	9° 5	5°D 2	26♊44	28♊48	28° 6	14°44	0♏20	0°49	13°20	n.a.	T 2
W 3	8 37 17	11° 7'35	21°49	24°16	22°20	9°37	5♊ 2	26°41	28°47	28° 8	14°45	0°15	0°46	13°27	n.a.	W 3
T 4	8 41 14	12° 7'38	6♑40	26° 3	23°35	10° 9	5° 2	26°38	28°45	28°10	14°46	0° 8	0°43	13°34	n.a.	T 4
F 5	8 45 10	13° 7'39	21°45	27°48	24°50	10°40	5° 2	26°35	28°43	28°11	14°48	29♎58	0°40	13°40	n.a.	F 5
S 6	8 49 7	14° 7'39	6♒56	29°31	26° 4	11°11	5° 3	26°33	28°42	28°13	14°49	29°47	0°37	13°47	n.a.	S 6
S 7	8 53 3	15° 7'36	22° 2	1♓10	27°19	11°42	5° 4	26°30	28°40	28°15	14°50	29°36	0°33	13°54	n.a.	S 7
M 8	8 57 0	16° 7'31	6♓52	2°45	28°33	12°13	5° 5	26°28	28°39	28°16	14°51	29°26	0°30	14° 0	n.a.	M 8
T 9	9 0 56	17° 7'24	21°19	4°16	29°48	12°44	5° 6	26°26	28°37	28°18	14°53	29°19	0°27	14° 7	n.a.	T 9
W10	9 4 53	18° 7'15	5♈17	5°41	1♓ 3	13°14	5° 7	26°24	28°36	28°20	14°54	29°14	0°24	14°14	n.a.	W10
T 11	9 8 49	19° 7'04	18°46	7° 2	2°17	13°45	5° 9	26°22	28°34	28°21	14°55	29°12	0°21	14°21	n.a.	T 11
F 12	9 12 46	20° 6'50	1♉47	8°16	3°32	14°15	5°11	26°20	28°33	28°23	14°57	29°D12	0°18	14°27	n.a.	F 12
S 13	9 16 43	21° 6'34	14°25	9°24	4°46	14°45	5°13	26°18	28°32	28°24	14°58	29°12	0°14	14°34	n.a.	S 13
S 14	9 20 39	22° 6'15	26°43	10°25	6° 0	15°15	5°15	26°16	28°30	28°26	14°59	29°R12	0°11	14°41	n.a.	S 14
M15	9 24 36	23° 5'54	8♊47	11°18	7°15	15°45	5°17	26°15	28°29	28°28	15° 1	29°11	0° 8	14°47	n.a.	M15
T 16	9 28 32	24° 5'31	20°42	12° 4	8°29	16°14	5°20	26°13	28°28	28°29	15° 2	29° 7	0° 5	14°54	n.a.	T 16
W17	9 32 29	25° 5'05	2♋33	12°43	9°44	16°44	5°23	26°12	28°27	28°30	15° 3	29° 1	0° 2	15° 1	n.a.	W17
T 18	9 36 25	26° 4'37	14°24	13°13	10°58	17°13	5°26	26°10	28°26	28°32	15° 5	28°53	29♎59	15° 8	n.a.	T 18
F 19	9 40 22	27° 4'07	26°17	13°35	12°12	17°42	5°29	26° 9	28°25	28°33	15° 6	28°42	29°55	15°14	n.a.	F 19
S 20	9 44 18	28° 3'35	8♌17	13°49	13°26	18°11	5°32	26° 8	28°24	28°35	15° 8	28°31	29°52	15°21	n.a.	S 20
S 21	9 48 15	29° 3'00	20°23	13°R55	14°41	18°39	5°35	26° 7	28°23	28°36	15° 9	28°19	29°49	15°28	n.a.	S 21
M22	9 52 11	0♓ 2'23	2♍38	13°54	15°55	19° 8	5°39	26° 6	28°22	28°37	15°10	28° 8	29°46	15°34	n.a.	M22
T 23	9 56 8	1° 1'44	15° 2	13°44	17° 9	19°36	5°43	26° 6	28°21	28°39	15°12	27°59	29°43	15°41	n.a.	T 23
W24	10 0 5	2° 1'03	27°36	13°27	18°23	20° 4	5°47	26° 5	28°20	28°40	15°13	27°53	29°39	15°48	n.a.	W24
T 25	10 4 1	3° 0'19	10♎20	13° 4	19°37	20°32	5°51	26° 4	28°20	28°41	15°15	27°49	29°36	15°55	n.a.	T 25
F 26	10 7 58	3°59'34	23°16	12°34	20°51	21° 0	5°55	26° 4	28°19	28°42	15°16	27°D47	29°33	16° 1	n.a.	F 26
S 27	10 11 54	4°58'47	6♏25	11°58	22° 5	21°27	6° 0	26° 4	28°18	28°44	15°17	27°48	29°30	16° 8	n.a.	S 27
S 28	10 15 51	5♓57'58	19♏49	11♓18	23♓19	21♏54	6♊ 5	26♊ 3	28♊18	28♐45	15♓19	27♎49	29♎27	16♋15	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s11	16s54	1n58	15s32	0s47	16s24	1s27	13s15	1n20	21n16	0s 6	23n29	0s11	24n 5	0n22	23s 0	0n42	21s33	16s52	11s44	11s55	18n10		n.a.
T 2	17 54	18 47	3 2	14 46	0 37	16 0	1 27	13 26	1 20	21 17	0 6	23 29	0 11	24 5	0 22	23 0	0 42	21 32	16 52	11 43	11 53	18 9		n.a.
W 3	17 38	19 31	3 56	14 0	0 26	15 35	1 26	13 36	1 19	21 17	0 6	23 29	0 11	24 5	0 22	23 0	0 42	21 31	16 52	11 41	11 52	18 8		n.a.
T 4	17 21	18 56	4 36	13 12	0 15	15 10	1 26	13 47	1 19	21 17	0 6	23 29	0 11	24 5	0 22	23 0	0 42	21 30	16 52	11 39	11 51	18 7		n.a.
F 5	17 4	17 2	4 58	12 25	0 3	14 44	1 26	13 57	1 18	21 17	0 6	23 29	0 11	24 5	0 22	23 0	0 42	21 30	16 51	11 35	11 50	18 6		n.a.
S 6	16 47	13 56	4 59	11 37	0n10	14 18	1 25	14 7	1 18	21 17	0 6	23 29	0 11	24 5	0 22	23 0	0 42	21 29	16 51	11 31	11 49	18 5		n.a.
S 7	16 29	9 56	4 39	10 50	0 23	13 52	1 24	14 18	1 17	21 18	0 5	23 29	0 10	24 5	0 22	23 0	0 42	21 28	16 51	11 27	11 48	18 4		n.a.
M 8	16 11	5 23	4 0	10 3	0 36	13 25	1 24	14 28	1 17	21 18	0 5	23 29	0 10	24 5	0 22	23 0	0 42	21 28	16 51	11 24	11 47	18 3		n.a.
T 9	15 53	0 38	3 6	9 17	0 50	12 58	1 23	14 38	1 16	21 18	0 5	23 29	0 10	24 4	0 22	23 0	0 42	21 27	16 51	11 21	11 46	18 2		n.a.
W10	15 34	4n 0	2 3	8 33	1 3	12 30	1 22	14 47	1 15	21 19	0 5	23 30	0 10	24 4	0 22	23 0	0 42	21 26	16 51	11 20	11 44	18 2		n.a.
T 11	15 16	8 17	0 55	7 50	1 17	12 3	1 22	14 57	1 15	21 19	0 5	23 30	0 10	24 4	0 22	23 0	0 42	21 26	16 50	11 19	11 43	18 1		n.a.
F 12	14 57	12 1	0s14	7 9	1 31	11 35	1 21	15 7	1 14	21 20	0 5	23 30	0 10	24 4	0 22	23 0	0 42	21 25	16 50	11 19	11 42	18 0		n.a.
S 13	14 37	15 4	1 20	6 31	1 45	11 6	1 20	15 16	1 14	21 20	0 5	23 30	0 10	24 4	0 22	23 0	0 42	21 24	16 50	11 19	11 41	17 59		n.a.
S 14	14 18	17 22	2 21	5 55	1 59	10 38	1 19	15 26	1 13	21 21	0 4	23 30	0 10	24 4	0 22	23 0	0 42	21 24	16 50	11 19	11 40	17 58		n.a.
M15	13 58	18 49	3 14	5 22	2 12	10 9	1 18	15 35	1 12	21 21	0 4	23 30	0 10	24 4	0 22	23 0	0 42	21 23	16 50	11 18	11 39	17 57		n.a.
T 16	13 38	19 25	3 58	4 52	2 25	9 40	1 16	15 44	1 12	21 22	0 4	23 30	0 9	24 4	0 22	23 0	0 42	21 22	16 50	11 17	11 38	17 56		n.a.
W17	13 18	19 9	4 32	4 26	2 38	9 10	1 15	15 54	1 11	21 23	0 4	23 30	0 9	24 4	0 22	23 0	0 42	21 22	16 50	11 15	11 37	17 55		n.a.
T 18	12 58	18 3	4 54	4 4	2 49	8 40	1 14	16 3	1 10	21 23	0 4	23 30	0 9	24 4	0 22	23 0	0 42	21 21	16 49	11 12	11 35	17 54		n.a.
F 19	12 38	16 10	5 3	3 46	3 0	8 11	1 13	16 12	1 9	21 24	0 4	23 30	0 9	24 4	0 22	23 0	0 42	21 20	16 49	11 8	11 34	17 53		n.a.
S 20	12 17	13 35	4 59	3 31	3 10	7 40	1 11	16 20	1 9	21 25	0 4	23 30	0 9	24 4	0 22	23 0	0 42	21 20	16 49	11 4	11 33	17 52		n.a.
S 21	11 56	10 25	4 41	3 21	3 18	7 10	1 10	16 29	1 8	21 25	0 3	23 30	0 9	24 4	0 22	23 0	0 42	21 19	16 49	11 0	11 32	17 51		n.a.
M22	11 35	6 45	4 11	3 15	3 25	6 40	1 8	16 38	1 7	21 26	0 3	23 30	0 9	24 4	0 22	23 0	0 42	21 19	16 49	10 56	11 31	17 50		n.a.
T 23	11 14	2 46	3 28	3 13	3 31	6 9	1 7	16 46	1 6	21 27	0 3	23 31	0 9	24 4	0 22	23 0	0 42	21 18	16 49	10 53	11 30	17 49		n.a.
W24	10 53	1s23	2 34	3 16	3 35	5 38	1 5	16 55	1 5	21 28	0 3	23 31	0 8	24 4	0 22	23 0	0 42	21 17	16 49	10 50	11 29	17 48		n.a.
T 25	10 31	5 33	1 32	3 23	3 38	5 7	1 3	17 3	1 5	21 29	0 3	23 31	0 8	24 4	0 22	23 0	0 42	21 17	16 49	10 49	11 27	17 47		n.a.
F 26	10 9	9 31	0 24	3 33	3 39	4 36	1 2	17 11	1 4	21 30	0 3	23 31	0 8	24 4	0 22	23 0	0 42	21 16	16 49	10 48	11 26	17 46		n.a.
S 27	9 48	13 5	0n46	3 47	3 38	4 5	1 0	17 19	1 3	21 31	0 3	23 31	0 8	24 4	0 22	23 0	0 42	21 15	16 49	10 48	11 25	17 45		n.a.
S 28	9s26	16s 2	1n56	4s 5	3n36	3s34	0s58	17s27	1n 2	21n32	0s 2	23n31	0s 8	24n 4	0n22	23s 0	0n42	21s15	16s49	10s49	11s24	17n44		n.a.

Julian Day Number = 1668127.5, Delta T = 03h22m02s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'53, Lahiri = - 5°57'53 Julian Calendar 1 Feb. 146 BCE == Greg. Calendar 29 Jan. 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

MARCH 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 19 47	6♓57'07	3♐29	10°R34	24♓33	22♏21	6♊ 9	26°D 3	28°R17	28♐46	15♓20	27°R49	29♎24	16♋21	n.a.	M 1
T 2	10 23 44	7°56'15	17°27	9♓47	25°47	22°48	6°14	26♊ 3	28♊17	28°47	15°22	27♎49	29°20	16°28	n.a.	T 2
W 3	10 27 40	8°55'20	1♑43	8°59	27° 1	23°15	6°20	26° 4	28°17	28°48	15°23	27°47	29°17	16°35	n.a.	W 3
T 4	10 31 37	9°54'24	16°13	8° 9	28°15	23°41	6°25	26° 4	28°16	28°49	15°25	27°43	29°14	16°42	n.a.	T 4
F 5	10 35 34	10°53'26	0♒56	7°20	29°29	24° 7	6°30	26° 4	28°16	28°50	15°26	27°37	29°11	16°48	n.a.	F 5
S 6	10 39 30	11°52'26	15°43	6°32	0♈43	24°32	6°36	26° 5	28°16	28°51	15°27	27°30	29° 8	16°55	n.a.	S 6
S 7	10 43 27	12°51'24	0♓27	5°45	1°57	24°58	6°42	26° 5	28°16	28°52	15°29	27°23	29° 5	17° 2	n.a.	S 7
M 8	10 47 23	13°50'19	15° 1	5° 1	3°11	25°23	6°48	26° 6	28°15	28°53	15°30	27°16	29° 1	17° 9	n.a.	M 8
T 9	10 51 20	14°49'13	29°17	4°21	4°24	25°48	6°54	26° 7	28°15	28°54	15°32	27°12	28°58	17°15	n.a.	T 9
W10	10 55 16	15°48'05	13♈11	3°45	5°38	26°12	7° 0	26° 8	28°D15	28°55	15°33	27° 9	28°55	17°22	n.a.	W10
T 11	10 59 13	16°46'54	26°40	3°13	6°52	26°36	7° 7	26° 9	28°15	28°55	15°35	27°D 8	28°52	17°29	n.a.	T 11
F 12	11 3 9	17°45'41	9♉44	2°46	8° 5	27° 0	7°13	26°10	28°15	28°56	15°36	27° 9	28°49	17°35	n.a.	F 12
S 13	11 7 6	18°44'26	22°26	2°23	9°19	27°24	7°20	26°11	28°16	28°57	15°38	27°10	28°45	17°42	n.a.	S 13
S 14	11 11 2	19°43'08	4♊48	2° 6	10°33	27°47	7°27	26°12	28°16	28°58	15°39	27°12	28°42	17°49	n.a.	S 14
M15	11 14 59	20°41'48	16°56	1°55	11°46	28°10	7°34	26°14	28°16	28°58	15°40	27°R13	28°39	17°56	n.a.	M15
T 16	11 18 56	21°40'26	28°54	1°48	13° 0	28°33	7°41	26°15	28°16	28°59	15°42	27°12	28°36	18° 2	n.a.	T 16
W17	11 22 52	22°39'02	10♋46	1°D47	14°13	28°55	7°48	26°17	28°17	29° 0	15°43	27°11	28°33	18° 9	n.a.	W17
T 18	11 26 49	23°37'35	22°39	1°51	15°27	29°17	7°56	26°19	28°17	29° 0	15°45	27° 8	28°30	18°16	n.a.	T 18
F 19	11 30 45	24°36'06	4♌35	2° 1	16°40	29°39	8° 3	26°21	28°18	29° 1	15°46	27° 3	28°26	18°22	n.a.	F 19
S 20	11 34 42	25°34'35	16°38	2°15	17°53	29°59	8°11	26°23	28°18	29° 1	15°48	26°58	28°23	18°29	n.a.	S 20
S 21	11 38 38	26°33'02	28°52	2°33	19° 7	0♐21	8°19	26°25	28°19	29° 2	15°49	26°53	28°20	18°36	n.a.	S 21
M22	11 42 35	27°31'26	11♍17	2°57	20°20	0°41	8°27	26°27	28°19	29° 2	15°50	26°48	28°17	18°43	n.a.	M22
T 23	11 46 31	28°29'48	23°56	3°25	21°33	1° 1	8°35	26°29	28°20	29° 3	15°52	26°44	28°14	18°49	n.a.	T 23
W24	11 50 28	29°28'09	6♎48	3°57	22°46	1°21	8°43	26°31	28°21	29° 3	15°53	26°41	28°10	18°56	n.a.	W24
T 25	11 54 25	0♈26'28	19°53	4°33	23°59	1°40	8°51	26°34	28°21	29° 3	15°55	26°40	28° 7	19° 3	n.a.	T 25
F 26	11 58 21	1°24'44	3♏11	5°13	25°13	1°59	9° 0	26°37	28°22	29° 4	15°56	26°D39	28° 4	19°10	n.a.	F 26
S 27	12 2 18	2°22'59	16°41	5°56	26°26	2°17	9° 8	26°39	28°23	29° 4	15°57	26°40	28° 1	19°16	n.a.	S 27
S 28	12 6 14	3°21'13	0♐23	6°44	27°39	2°35	9°17	26°42	28°24	29° 4	15°59	26°42	27°58	19°23	n.a.	S 28
M29	12 10 11	4°19'25	14°16	7°34	28°52	2°53	9°26	26°45	28°25	29° 5	16° 0	26°43	27°55	19°30	n.a.	M29
T 30	12 14 7	5°17'35	28°18	8°28	0♑ 5	3°10	9°35	26°48	28°26	29° 5	16° 2	26°44	27°51	19°36	n.a.	T 30
W31	12 18 4	6♈15'44	12♑29	9♓25	1♑17	3♐26	9♊44	26♊51	28♊27	29♐ 5	16♓ 3	26°R44	27♎48	19♋43	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	9s 3	18s 9	3n 0	4s26	3n31	3s 3	0s56	17s35	1n 1	21n33	0s 2	23n31	0s 8	24n 4	0n22	23s 0	0n42	21s14	16s48	10s49	11s23	17n43			n.a.
T 2	8 41	19 13	3 55	4 49	3 25	2 31	0 54	17 43	1 0	21 34	0 2	23 31	0 8	24 4	0 22	23 0	0 42	21 13	16 48	10 49	11 22	17 42			n.a.
W 3	8 19	19 5	4 37	5 15	3 17	2 0	0 52	17 51	0 59	21 35	0 2	23 31	0 8	24 4	0 22	23 0	0 42	21 13	16 48	10 48	11 21	17 41			n.a.
T 4	7 56	17 43	5 2	5 42	3 8	1 28	0 50	17 58	0 58	21 36	0 2	23 32	0 7	24 4	0 22	23 0	0 42	21 12	16 48	10 47	11 20	17 40			n.a.
F 5	7 34	15 11	5 7	6 11	2 57	0 57	0 48	18 6	0 57	21 37	0 2	23 32	0 7	24 4	0 22	23 0	0 42	21 12	16 48	10 45	11 18	17 39			n.a.
S 6	7 11	11 39	4 52	6 40	2 45	0 25	0 46	18 13	0 55	21 38	0 2	23 32	0 7	24 4	0 22	23 0	0 42	21 11	16 48	10 42	11 17	17 38			n.a.
S 7	6 48	7 25	4 18	7 9	2 32	0n 7	0 44	18 21	0 54	21 39	0 2	23 32	0 7	24 4	0 22	23 0	0 42	21 10	16 48	10 39	11 16	17 37			n.a.
M 8	6 26	2 47	3 28	7 38	2 18	0 38	0 42	18 28	0 53	21 40	0 1	23 32	0 7	24 4	0 22	23 0	0 42	21 10	16 48	10 37	11 15	17 36			n.a.
T 9	6 3	1n56	2 25	8 7	2 3	1 10	0 40	18 35	0 52	21 41	0 1	23 32	0 7	24 4	0 22	23 0	0 42	21 9	16 48	10 35	11 14	17 35			n.a.
W10	5 40	6 25	1 15	8 34	1 48	1 42	0 37	18 42	0 51	21 42	0 1	23 32	0 7	24 4	0 22	23 0	0 42	21 9	16 48	10 34	11 13	17 34			n.a.
T 11	5 17	10 26	0 3	9 0	1 32	2 13	0 35	18 49	0 49	21 44	0 1	23 33	0 7	24 4	0 22	23 0	0 42	21 8	16 48	10 34	11 12	17 33			n.a.
F 12	4 53	13 49	1s 8	9 25	1 17	2 45	0 33	18 56	0 48	21 45	0 1	23 33	0 7	24 4	0 22	23 0	0 42	21 8	16 48	10 34	11 10	17 32			n.a.
S 13	4 30	16 26	2 13	9 48	1 1	3 16	0 30	19 3	0 47	21 46	0 1	23 33	0 6	24 4	0 22	23 0	0 42	21 7	16 48	10 35	11 9	17 31			n.a.
S 14	4 7	18 13	3 10	10 9	0 45	3 48	0 28	19 9	0 45	21 47	0 1	23 33	0 6	24 4	0 22	23 0	0 42	21 6	16 48	10 35	11 8	17 30			n.a.
M15	3 44	19 7	3 58	10 27	0 29	4 19	0 25	19 16	0 44	21 49	0 1	23 33	0 6	24 4	0 22	23 0	0 42	21 6	16 48	10 36	11 7	17 29			n.a.
T 16	3 20	19 8	4 35	10 44	0 14	4 50	0 23	19 22	0 43	21 50	0 0	23 33	0 6	24 4	0 22	23 0	0 42	21 5	16 48	10 36	11 6	17 28			n.a.
W17	2 57	18 18	4 59	10 58	0s 1	5 21	0 20	19 29	0 41	21 51	0 0	23 33	0 6	24 4	0 22	23 0	0 42	21 5	16 48	10 35	11 5	17 27			n.a.
T 18	2 34	16 41	5 11	11 10	0 15	5 52	0 18	19 35	0 40	21 53	0 0	23 34	0 6	24 4	0 22	23 0	0 42	21 4	16 48	10 34	11 4	17 26			n.a.
F 19	2 10	14 20	5 9	11 19	0 29	6 23	0 15	19 41	0 38	21 54	0 0	23 34	0 6	24 4	0 22	23 0	0 42	21 4	16 48	10 32	11 2	17 25			n.a.
S 20	1 47	11 22	4 54	11 27	0 42	6 54	0 13	19 47	0 36	21 55	0n 0	23 34	0 6	24 4	0 22	23 0	0 43	21 3	16 48	10 30	11 1	17 24			n.a.
S 21	1 23	7 52	4 25	11 32	0 55	7 25	0 10	19 53	0 35	21 57	0 0	23 34	0 6	24 4	0 22	23 0	0 43	21 3	16 49	10 28	11 0	17 23			n.a.
M22	1 0	3 59	3 43	11 34	1 7	7 55	0 7	19 59	0 33	21 58	0 0	23 34	0 5	24 4	0 22	23 0	0 43	21 2	16 49	10 27	10 59	17 22			n.a.
T 23	0 36	0s 9	2 50	11 35	1 18	8 25	0 5	20 5	0 31	21 59	0 0	23 34	0 5	24 4	0 22	23 0	0 43	21 2	16 49	10 25	10 58	17 21			n.a.
W24	0 13	4 21	1 47	11 33	1 29	8 55	0 2	20 11	0 30	22 1	0 1	23 35	0 5	24 4	0 22	23 0	0 43	21 1	16 49	10 24	10 57	17 20			n.a.
T 25	0n11	8 26	0 37	11 29	1 38	9 25	0n 1	20 16	0 28	22 2	0 1	23 35	0 5	24 4	0 22	23 0	0 43	21 1	16 49	10 24	10 56	17 19			n.a.
F 26	0 34	12 9	0n36	11 22	1 48	9 55	0 3	20 22	0 26	22 4	0 1	23 35	0 5	24 4	0 22	23 0	0 43	21 0	16 49	10 24	10 54	17 17			n.a.
S 27	0 57	15 17	1 48	11 14	1 56	10 24	0 6	20 28	0 24	22 5	0 1	23 35	0 5	24 4	0 22	23 0	0 43	21 0	16 49	10 24	10 53	17 16			n.a.
S 28	1 21	17 37	2 55	11 4	2 4	10 54	0 9	20 33	0 22	22 7	0 1	23 35	0 5	24 4	0 22	23 0	0 43	20 59	16 49	10 25	10 52	17 15			n.a.
M29	1 44	18 55	3 53	10 51	2 12	11 22	0 12	20 38	0 20	22 8	0 1	23 36	0 5	24 4	0 22	23 0	0 43	20 59	16 49	10 25	10 51	17 14			n.a.
T 30	2 8	19 5	4 37	10 37	2 18	11 51	0 14	20 44	0 18	22 10	0 1	23 36	0 5	24 4	0 22	23 0	0 43	20 58	16 49	10 25	10 50	17 13			n.a.
W31	2n31	18s 3	5n 5	10s21	2s24	12n19	0n17	20s49	0n16	22n11	0n 1	23n36	0s 4	24n 4	0n22	23s 0	0n43	20s58	16s49	10s25	10s49	17n12			n.a.

Julian Day Number = 1668155.5, Delta T = 03h22m02s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'49, Lahiri = - 5°57'49 Julian Calendar 1 March 146 BCE == Greg. Calendar 26 Feb. 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

APRIL 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 22 0	7♈13'52	26♑46	10♓25	2♉30	3♐42	9♊53	26♊54	28♊28	29♐ 5	16♓ 4	26°R43	27♎45	19♋50	n.a.	T 1
F 2	12 25 57	8°11'57	11♒ 7	11°28	3°43	3°58	10° 2	26°57	28°30	29° 5	16° 6	26♎42	27°42	19°57	n.a.	F 2
S 3	12 29 53	9°10'02	25°28	12°33	4°56	4°13	10°12	27° 1	28°31	29° 5	16° 7	26°39	27°39	20° 3	n.a.	S 3
S 4	12 33 50	10° 8'04	9♓44	13°42	6° 9	4°28	10°21	27° 4	28°32	29° 5	16° 8	26°37	27°36	20°10	n.a.	S 4
M 5	12 37 47	11° 6'06	23°51	14°52	7°21	4°41	10°31	27° 8	28°33	29°R 5	16°10	26°35	27°32	20°17	n.a.	M 5
T 6	12 41 43	12° 4'05	7♈44	16° 6	8°34	4°55	10°40	27°11	28°35	29° 5	16°11	26°34	27°29	20°23	n.a.	T 6
W 7	12 45 40	13° 2'03	21°21	17°22	9°47	5° 8	10°50	27°15	28°36	29° 5	16°12	26°D33	27°26	20°30	n.a.	W 7
T 8	12 49 36	13°59'59	4♉39	18°40	10°59	5°20	11° 0	27°19	28°38	29° 5	16°14	26°33	27°23	20°37	n.a.	T 8
F 9	12 53 33	14°57'54	17°37	20° 0	12°12	5°32	11°10	27°23	28°39	29° 5	16°15	26°34	27°20	20°44	n.a.	F 9
S 10	12 57 29	15°55'46	0♊17	21°23	13°24	5°43	11°20	27°27	28°41	29° 5	16°16	26°35	27°16	20°50	n.a.	S 10
S 11	13 1 26	16°53'37	12°40	22°48	14°37	5°53	11°30	27°31	28°42	29° 5	16°18	26°36	27°13	20°57	n.a.	S 11
M12	13 5 22	17°51'27	24°49	24°15	15°49	6° 3	11°41	27°35	28°44	29° 4	16°19	26°37	27°10	21° 4	n.a.	M12
T 13	13 9 19	18°49'14	6♋49	25°44	17° 2	6°13	11°51	27°39	28°46	29° 4	16°20	26°37	27° 7	21°11	n.a.	T 13
W14	13 13 16	19°47'00	18°43	27°16	18°14	6°21	12° 1	27°44	28°48	29° 4	16°21	26°R37	27° 4	21°17	n.a.	W14
T 15	13 17 12	20°44'44	0♌37	28°50	19°26	6°29	12°12	27°48	28°49	29° 4	16°23	26°37	27° 1	21°24	n.a.	T 15
F 16	13 21 9	21°42'26	12°34	0♈25	20°38	6°37	12°23	27°53	28°51	29° 3	16°24	26°37	26°57	21°31	n.a.	F 16
S 17	13 25 5	22°40'06	24°39	2° 3	21°51	6°43	12°33	27°57	28°53	29° 3	16°25	26°37	26°54	21°37	n.a.	S 17
S 18	13 29 2	23°37'45	6♍57	3°43	23° 3	6°49	12°44	28° 2	28°55	29° 2	16°26	26°36	26°51	21°44	n.a.	S 18
M19	13 32 58	24°35'22	19°30	5°25	24°15	6°55	12°55	28° 7	28°57	29° 2	16°27	26°36	26°48	21°51	n.a.	M19
T 20	13 36 55	25°32'58	2♎19	7°10	25°27	7° 0	13° 6	28°12	28°59	29° 1	16°29	26°36	26°45	21°58	n.a.	T 20
W21	13 40 51	26°30'32	15°28	8°56	26°39	7° 4	13°17	28°16	29° 1	29° 1	16°30	26°D36	26°41	22° 4	n.a.	W21
T 22	13 44 48	27°28'05	28°54	10°44	27°51	7° 7	13°28	28°21	29° 3	29° 0	16°31	26°R36	26°38	22°11	n.a.	T 22
F 23	13 48 45	28°25'36	12♏37	12°35	29° 3	7° 9	13°39	28°26	29° 6	29° 0	16°32	26°36	26°35	22°18	n.a.	F 23
S 24	13 52 41	29°23'07	26°34	14°28	0♊14	7°11	13°51	28°32	29° 8	28°59	16°33	26°35	26°32	22°24	n.a.	S 24
S 25	13 56 38	0♉20'36	10♐42	16°22	1°26	7°12	14° 2	28°37	29°10	28°59	16°34	26°35	26°29	22°31	n.a.	S 25
M26	14 0 34	1°18'04	24°57	18°19	2°38	7°R13	14°13	28°42	29°12	28°58	16°35	26°35	26°26	22°38	n.a.	M26
T 27	14 4 31	2°15'32	9♑16	20°18	3°49	7°12	14°25	28°47	29°15	28°57	16°36	26°34	26°22	22°45	n.a.	T 27
W28	14 8 27	3°12'59	23°34	22°19	5° 1	7°11	14°36	28°53	29°17	28°57	16°37	26°34	26°19	22°51	n.a.	W28
T 29	14 12 24	4°10'24	7♒48	24°21	6°12	7° 9	14°48	28°58	29°19	28°56	16°38	26°D34	26°16	22°58	n.a.	T 29
F 30	14 16 20	5♉ 7'49	21♒57	26♈25	7♊24	7♐ 7	15♊ 0	29♊ 4	29♊22	28♐55	16♓39	26♎34	26♎13	23♋ 5	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	2n54	15s53	5n15	10s 3	2s29	12n48	0n20	20s54	0n14	22n12	0n 1	23n36	0s 4	24n 4	0n22	23s 0	0n43	20s57	16s50	10s25	10s47	17n11			n.a.
F 2	3 17	12 45	5 5	9 43	2 34	13 15	0 23	20 59	0 12	22 14	0 2	23 36	0 4	24 4	0 22	23 0	0 43	20 57	16 50	10 24	10 46	17 10			n.a.
S 3	3 40	8 51	4 36	9 21	2 38	13 43	0 26	21 4	0 10	22 15	0 2	23 36	0 4	24 4	0 22	23 0	0 43	20 57	16 50	10 24	10 45	17 9			n.a.
S 4	4 3	4 27	3 50	8 57	2 41	14 10	0 28	21 9	0 7	22 17	0 2	23 37	0 4	24 4	0 22	23 0	0 43	20 56	16 50	10 23	10 44	17 8			n.a.
M 5	4 26	0n 9	2 51	8 32	2 44	14 37	0 31	21 14	0 5	22 18	0 2	23 37	0 4	24 4	0 22	23 0	0 43	20 56	16 50	10 22	10 43	17 7			n.a.
T 6	4 49	4 40	1 42	8 5	2 46	15 3	0 34	21 19	0 3	22 20	0 2	23 37	0 4	24 4	0 22	23 0	0 43	20 55	16 50	10 22	10 42	17 6			n.a.
W 7	5 12	8 52	0 29	7 36	2 47	15 29	0 37	21 24	0 0	22 21	0 2	23 37	0 4	24 4	0 22	23 0	0 43	20 55	16 50	10 21	10 41	17 5			n.a.
T 8	5 35	12 31	0s45	7 6	2 48	15 55	0 39	21 28	0s 2	22 23	0 2	23 37	0 4	24 4	0 22	23 0	0 43	20 55	16 51	10 21	10 39	17 3			n.a.
F 9	5 58	15 28	1 54	6 34	2 48	16 20	0 42	21 33	0 5	22 24	0 2	23 38	0 4	24 4	0 22	23 0	0 43	20 54	16 51	10 22	10 38	17 2			n.a.
S 10	6 20	17 34	2 56	6 1	2 47	16 45	0 45	21 37	0 7	22 26	0 2	23 38	0 3	24 4	0 22	23 0	0 43	20 54	16 51	10 22	10 37	17 1			n.a.
S 11	6 43	18 48	3 48	5 26	2 46	17 10	0 48	21 42	0 10	22 28	0 2	23 38	0 3	24 4	0 22	23 0	0 43	20 54	16 51	10 22	10 36	17 0			n.a.
M12	7 5	19 7	4 29	4 49	2 45	17 34	0 50	21 46	0 13	22 29	0 3	23 38	0 3	24 4	0 22	23 0	0 43	20 53	16 51	10 23	10 35	16 59			n.a.
T 13	7 27	18 34	4 58	4 11	2 42	17 57	0 53	21 51	0 15	22 31	0 3	23 38	0 3	24 4	0 22	23 0	0 43	20 53	16 51	10 23	10 34	16 58			n.a.
W14	7 49	17 12	5 14	3 32	2 40	18 21	0 56	21 55	0 18	22 32	0 3	23 38	0 3	24 4	0 22	23 0	0 43	20 53	16 52	10 23	10 32	16 57			n.a.
T 15	8 11	15 6	5 16	2 51	2 36	18 43	0 58	21 59	0 21	22 34	0 3	23 39	0 3	24 4	0 22	23 0	0 43	20 52	16 52	10 23	10 31	16 56			n.a.
F 16	8 33	12 21	5 5	2 9	2 32	19 5	1 1	22 3	0 24	22 35	0 3	23 39	0 3	24 4	0 22	23 0	0 43	20 52	16 52	10 23	10 30	16 55			n.a.
S 17	8 55	9 3	4 40	1 26	2 28	19 27	1 3	22 7	0 27	22 37	0 3	23 39	0 3	24 4	0 22	23 0	0 43	20 52	16 52	10 23	10 29	16 53			n.a.
S 18	9 16	5 19	4 2	0 41	2 23	19 48	1 6	22 11	0 30	22 38	0 3	23 39	0 3	24 4	0 22	23 0	0 43	20 51	16 52	10 22	10 28	16 52			n.a.
M19	9 38	1 16	3 12	0n 5	2 17	20 9	1 8	22 15	0 33	22 40	0 3	23 39	0 3	24 4	0 22	23 0	0 43	20 51	16 53	10 22	10 27	16 51			n.a.
T 20	9 59	2s56	2 11	0 53	2 11	20 29	1 11	22 19	0 36	22 41	0 3	23 39	0 2	24 4	0 22	23 0	0 43	20 51	16 53	10 22	10 26	16 50			n.a.
W21	10 20	7 6	1 1	1 41	2 4	20 49	1 13	22 23	0 40	22 43	0 4	23 40	0 2	24 4	0 22	23 0	0 43	20 51	16 53	10 22	10 24	16 49			n.a.
T 22	10 41	11 0	0n13	2 31	1 57	21 8	1 16	22 27	0 43	22 44	0 4	23 40	0 2	24 4	0 22	23 0	0 43	20 50	16 53	10 22	10 23	16 48			n.a.
F 23	11 2	14 24	1 28	3 21	1 49	21 27	1 18	22 31	0 46	22 46	0 4	23 40	0 2	24 4	0 22	23 0	0 43	20 50	16 54	10 22	10 22	16 47			n.a.
S 24	11 23	17 2	2 39	4 13	1 41	21 45	1 21	22 34	0 50	22 47	0 4	23 40	0 2	24 4	0 22	22 59	0 43	20 50	16 54	10 22	10 21	16 46			n.a.
S 25	11 43	18 40	3 41	5 5	1 32	22 2	1 23	22 38	0 53	22 48	0 4	23 40	0 2	24 4	0 22	22 59	0 43	20 50	16 54	10 22	10 20	16 44			n.a.
M26	12 4	19 7	4 30	5 59	1 24	22 19	1 25	22 42	0 57	22 50	0 4	23 40	0 2	24 4	0 22	22 59	0 43	20 49	16 54	10 22	10 19	16 43			n.a.
T 27	12 24	18 21	5 3	6 53	1 14	22 35	1 27	22 45	1 0	22 51	0 4	23 41	0 2	24 4	0 22	22 59	0 43	20 49	16 55	10 22	10 17	16 42			n.a.
W28	12 44	16 26	5 16	7 47	1 5	22 51	1 30	22 48	1 4	22 53	0 4	23 41	0 2	24 4	0 22	22 59	0 43	20 49	16 55	10 22	10 16	16 41			n.a.
T 29	13 3	13 31	5 11	8 42	0 55	23 6	1 32	22 52	1 8	22 54	0 4	23 41	0 2	24 4	0 22	22 59	0 43	20 49	16 55	10 22	10 15	16 40			n.a.
F 30	13n23	9s50	4n46	9n37	0s44	23n20	1n34	22s55	1s11	22n56	0n 4	23n41	0s 1	24n 4	0n22	22s59	0n43	20s49	16s55	10s22	10s14	16n39			n.a.

Julian Day Number = 1668186.5, Delta T = 03h22m01s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'45, Lahiri = - 5°57'45 Julian Calendar 1 Apr. 146 BCE == Greg. Calendar 29 March 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

MAY 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 20 17	6♉ 5'13	5♓57	28♈31	8♊35	7°R 3	15♊11	29♊ 9	29♊24	28°R54	16♓41	26♎35	26♎10	23♋12	n.a.	S 1
S 2	14 24 14	7° 2'37	19°48	0♉39	9°47	6♐59	15°23	29°15	29°27	28♐53	16°42	26°36	26° 7	23°18	n.a.	S 2
M 3	14 28 10	7°59'59	3♈27	2°47	10°58	6°54	15°35	29°21	29°29	28°53	16°42	26°36	26° 3	23°25	n.a.	M 3
T 4	14 32 7	8°57'21	16°54	4°57	12° 9	6°49	15°47	29°27	29°32	28°52	16°43	26°37	26° 0	23°32	n.a.	T 4
W 5	14 36 3	9°54'42	0♉ 7	7° 8	13°21	6°42	15°59	29°33	29°35	28°51	16°44	26°R37	25°57	23°38	n.a.	W 5
T 6	14 40 0	10°52'03	13° 7	9°19	14°32	6°35	16°11	29°39	29°37	28°50	16°45	26°37	25°54	23°45	n.a.	T 6
F 7	14 43 56	11°49'22	25°52	11°31	15°43	6°27	16°23	29°45	29°40	28°49	16°46	26°35	25°51	23°52	n.a.	F 7
S 8	14 47 53	12°46'40	8♊22	13°43	16°54	6°19	16°35	29°51	29°43	28°48	16°47	26°33	25°47	23°59	n.a.	S 8
S 9	14 51 49	13°43'58	20°40	15°54	18° 5	6° 9	16°47	29°57	29°46	28°47	16°48	26°31	25°44	24° 5	n.a.	S 9
M10	14 55 46	14°41'15	2♋48	18° 6	19°16	5°59	17° 0	0♋ 3	29°48	28°46	16°49	26°28	25°41	24°12	n.a.	M10
T 11	14 59 43	15°38'30	14°46	20°16	20°26	5°48	17°12	0° 9	29°51	28°45	16°50	26°26	25°38	24°19	n.a.	T 11
W12	15 3 39	16°35'45	26°40	22°26	21°37	5°37	17°24	0°15	29°54	28°44	16°51	26°24	25°35	24°26	n.a.	W12
T 13	15 7 36	17°32'59	8♌33	24°34	22°48	5°25	17°37	0°22	29°57	28°43	16°51	26°23	25°32	24°32	n.a.	T 13
F 14	15 11 32	18°30'12	20°30	26°41	23°59	5°12	17°49	0°28	0♋ 0	28°42	16°52	26°D22	25°28	24°39	n.a.	F 14
S 15	15 15 29	19°27'23	2♍34	28°47	25° 9	4°59	18° 2	0°35	0° 3	28°40	16°53	26°23	25°25	24°46	n.a.	S 15
S 16	15 19 25	20°24'35	14°52	0♊51	26°20	4°46	18°14	0°41	0° 6	28°39	16°54	26°24	25°22	24°52	n.a.	S 16
M17	15 23 22	21°21'45	27°26	2°53	27°30	4°31	18°27	0°48	0° 9	28°38	16°54	26°26	25°19	24°59	n.a.	M17
T 18	15 27 18	22°18'54	10♎21	4°53	28°40	4°17	18°40	0°54	0°12	28°37	16°55	26°27	25°16	25° 6	n.a.	T 18
W19	15 31 15	23°16'03	23°39	6°51	29°51	4° 1	18°52	1° 1	0°15	28°36	16°56	26°R28	25°13	25°13	n.a.	W19
T 20	15 35 12	24°13'11	7♏21	8°46	1♋ 1	3°46	19° 5	1° 8	0°18	28°34	16°57	26°27	25° 9	25°19	n.a.	T 20
F 21	15 39 8	25°10'19	21°25	10°40	2°11	3°30	19°18	1°14	0°21	28°33	16°57	26°26	25° 6	25°26	n.a.	F 21
S 22	15 43 5	26° 7'27	5♐47	12°32	3°21	3°13	19°31	1°21	0°25	28°32	16°58	26°23	25° 3	25°33	n.a.	S 22
S 23	15 47 1	27° 4'34	20°23	14°21	4°31	2°56	19°43	1°28	0°28	28°31	16°58	26°19	25° 0	25°39	n.a.	S 23
M24	15 50 58	28° 1'41	5♑ 5	16° 8	5°41	2°39	19°56	1°35	0°31	28°29	16°59	26°14	24°57	25°46	n.a.	M24
T 25	15 54 54	28°58'48	19°46	17°53	6°50	2°22	20° 9	1°42	0°34	28°28	17° 0	26°10	24°53	25°53	n.a.	T 25
W26	15 58 51	29°55'55	4♒21	19°35	8° 0	2° 4	20°22	1°49	0°37	28°26	17° 0	26° 7	24°50	26° 0	n.a.	W26
T 27	16 2 47	0♊53'01	18°43	21°15	9°10	1°46	20°35	1°56	0°41	28°25	17° 1	26° 5	24°47	26° 6	n.a.	T 27
F 28	16 6 44	1°50'08	2♓50	22°53	10°19	1°29	20°48	2° 3	0°44	28°24	17° 1	26°D 4	24°44	26°13	n.a.	F 28
S 29	16 10 41	2°47'15	16°40	24°29	11°28	1°11	21° 1	2°10	0°47	28°22	17° 2	26° 5	24°41	26°20	n.a.	S 29
S 30	16 14 37	3°44'23	0♈14	26° 2	12°38	0°52	21°14	2°17	0°51	28°21	17° 2	26° 6	24°38	26°27	n.a.	S 30
M31	16 18 34	4♊41'30	13♈33	27♊33	13♋47	0♐34	21♊27	2♋24	0♋54	28♐19	17♓ 3	26♎ 8	24♎34	26♋33	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n42	5s38	4n 5	10n33	0s34	23n34	1n36	22s58	1s15	22n57	0n 5	23n41	0s 1	24n 4	0n22	22s59	0n43	20s48	16s56	10s22	10s13	16n38		n.a.
S 2	14 1	1 11	3 10	11 28	0 23	23 47	1 38	23 1	1 19	22 59	0 5	23 41	0 1	24 4	0 22	22 59	0 43	20 48	16 56	10 22	10 12	16 36		n.a.
M 3	14 20	3n17	2 5	12 23	0 13	23 59	1 40	23 4	1 23	23 0	0 5	23 41	0 1	24 4	0 22	22 59	0 43	20 48	16 56	10 23	10 10	16 35		n.a.
T 4	14 39	7 32	0 54	13 17	0 2	24 11	1 41	23 7	1 27	23 1	0 5	23 41	0 1	24 4	0 22	22 59	0 43	20 48	16 56	10 23	10 9	16 34		n.a.
W 5	14 57	11 20	0s19	14 11	0n 9	24 22	1 43	23 10	1 31	23 3	0 5	23 42	0 1	24 4	0 22	22 59	0 43	20 48	16 57	10 23	10 8	16 33		n.a.
T 6	15 15	14 31	1 30	15 4	0 19	24 32	1 45	23 13	1 35	23 4	0 5	23 42	0 1	24 4	0 22	22 59	0 43	20 48	16 57	10 23	10 7	16 32		n.a.
F 7	15 33	16 56	2 35	15 55	0 29	24 42	1 47	23 15	1 39	23 5	0 5	23 42	0 1	24 4	0 22	22 59	0 43	20 48	16 57	10 22	10 6	16 31		n.a.
S 8	15 51	18 29	3 31	16 46	0 39	24 51	1 48	23 18	1 43	23 7	0 5	23 42	0 1	24 4	0 21	22 59	0 43	20 48	16 58	10 21	10 5	16 29		n.a.
S 9	16 8	19 8	4 16	17 34	0 49	24 59	1 50	23 20	1 47	23 8	0 5	23 42	0 1	24 4	0 21	22 59	0 43	20 48	16 58	10 20	10 3	16 28		n.a.
M10	16 26	18 52	4 49	18 21	0 58	25 7	1 51	23 22	1 51	23 9	0 5	23 42	0 1	24 4	0 21	22 59	0 43	20 47	16 58	10 20	10 2	16 27		n.a.
T 11	16 43	17 46	5 8	19 6	1 7	25 14	1 53	23 25	1 55	23 11	0 6	23 42	0 0	24 4	0 21	22 59	0 43	20 47	16 59	10 19	10 1	16 26		n.a.
W12	16 59	15 55	5 15	19 48	1 15	25 20	1 54	23 27	2 0	23 12	0 6	23 42	0 0	24 4	0 21	22 59	0 43	20 47	16 59	10 18	10 0	16 25		n.a.
T 13	17 16	13 23	5 8	20 28	1 23	25 26	1 55	23 29	2 4	23 13	0 6	23 42	0 0	24 4	0 21	22 59	0 43	20 47	16 59	10 17	9 59	16 24		n.a.
F 14	17 32	10 17	4 47	21 6	1 30	25 30	1 56	23 30	2 8	23 15	0 6	23 42	0 0	24 4	0 21	22 59	0 43	20 47	16 59	10 17	9 58	16 22		n.a.
S 15	17 48	6 43	4 14	21 41	1 37	25 35	1 57	23 32	2 12	23 16	0 6	23 42	0 0	24 4	0 21	22 59	0 43	20 47	17 0	10 18	9 56	16 21		n.a.
S 16	18 3	2 49	3 29	22 14	1 43	25 38	1 58	23 34	2 16	23 17	0 6	23 43	0n 0	24 4	0 21	22 59	0 43	20 47	17 0	10 18	9 55	16 20		n.a.
M17	18 18	1s18	2 33	22 44	1 48	25 41	1 59	23 35	2 21	23 18	0 6	23 43	0 0	24 4	0 21	22 59	0 43	20 47	17 0	10 19	9 54	16 19		n.a.
T 18	18 33	5 29	1 27	23 11	1 52	25 42	2 0	23 37	2 25	23 19	0 6	23 43	0 0	24 4	0 21	22 59	0 43	20 47	17 1	10 19	9 53	16 18		n.a.
W19	18 48	9 31	0 15	23 36	1 56	25 44	2 1	23 38	2 29	23 21	0 6	23 43	0 0	24 4	0 21	22 59	0 43	20 47	17 1	10 19	9 52	16 16		n.a.
T 20	19 2	13 11	0n59	23 58	1 59	25 44	2 2	23 39	2 33	23 22	0 6	23 43	0 0	24 4	0 21	22 59	0 43	20 47	17 1	10 19	9 51	16 15		n.a.
F 21	19 16	16 11	2 12	24 18	2 1	25 44	2 2	23 40	2 37	23 23	0 6	23 43	0 0	24 4	0 21	22 59	0 43	20 47	17 2	10 19	9 49	16 14		n.a.
S 22	19 30	18 15	3 19	24 35	2 3	25 43	2 3	23 41	2 41	23 24	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 47	17 2	10 18	9 48	16 13		n.a.
S 23	19 44	19 9	4 13	24 50	2 4	25 41	2 3	23 41	2 45	23 25	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 47	17 2	10 16	9 47	16 12		n.a.
M24	19 57	18 46	4 51	25 2	2 4	25 39	2 4	23 42	2 49	23 26	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 48	17 3	10 14	9 46	16 10		n.a.
T 25	20 9	17 8	5 10	25 12	2 3	25 36	2 4	23 42	2 53	23 27	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 48	17 3	10 13	9 45	16 9		n.a.
W26	20 22	14 24	5 9	25 20	2 2	25 32	2 4	23 42	2 57	23 28	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 48	17 3	10 12	9 43	16 8		n.a.
T 27	20 34	10 49	4 48	25 25	2 0	25 27	2 4	23 42	3 1	23 29	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 48	17 4	10 11	9 42	16 7		n.a.
F 28	20 46	6 42	4 10	25 29	1 58	25 22	2 4	23 42	3 5	23 30	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 48	17 4	10 11	9 41	16 6		n.a.
S 29	20 57	2 17	3 18	25 30	1 55	25 16	2 4	23 42	3 9	23 31	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 48	17 4	10 11	9 40	16 4		n.a.
S 30	21 8	2n10	2 16	25 30	1 51	25 9	2 4	23 42	3 13	23 32	0 7	23 43	0 1	24 4	0 21	22 59	0 43	20 48	17 5	10 11	9 39	16 3		n.a.
M31	21n19	6n27	1n 8	25n28	1n47	25n 2	2n 3	23s42	3s16	23n33	0n 7	23n43	0n 1	24n 4	0n21	22s59	0n43	20s48	17s 5	10s12	9s38	16n 2		n.a.

Julian Day Number = 1668216.5, Delta T = 03h22m00s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'41, Lahiri = - 5°57'40 Julian Calendar 1 May 146 BCE == Greg. Calendar 28 Apr. 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

JUNE 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 22 30	5♊38'38	26♈37	29♊ 2	14♋56	0°R16	21♊40	2♋31	0♋57	28°R18	17♓ 3	26°R 8	24♎31	26♋40	n.a.	T 1
W 2	16 26 27	6°35'45	9♉28	0♋28	16° 5	29♏59	21°53	2°38	1° 1	28♐16	17° 4	26♎ 7	24°28	26°47	n.a.	W 2
T 3	16 30 23	7°32'53	22° 8	1°52	17°14	29°41	22° 6	2°46	1° 4	28°15	17° 4	26° 5	24°25	26°53	n.a.	T 3
F 4	16 34 20	8°30'01	4♊36	3°13	18°23	29°23	22°20	2°53	1° 8	28°14	17° 4	26° 0	24°22	27° 0	n.a.	F 4
S 5	16 38 16	9°27'10	16°55	4°32	19°32	29° 6	22°33	3° 0	1°11	28°12	17° 5	25°53	24°18	27° 7	n.a.	S 5
S 6	16 42 13	10°24'18	29° 4	5°49	20°40	28°49	22°46	3° 8	1°15	28°10	17° 5	25°46	24°15	27°14	n.a.	S 6
M 7	16 46 10	11°21'26	11♋ 6	7° 2	21°49	28°32	22°59	3°15	1°18	28° 9	17° 5	25°37	24°12	27°20	n.a.	M 7
T 8	16 50 6	12°18'35	23° 2	8°14	22°57	28°16	23°13	3°22	1°22	28° 7	17° 6	25°29	24° 9	27°27	n.a.	T 8
W 9	16 54 3	13°15'43	4♌54	9°22	24° 6	28° 0	23°26	3°30	1°25	28° 6	17° 6	25°22	24° 6	27°34	n.a.	W 9
T 10	16 57 59	14°12'52	16°46	10°28	25°14	27°45	23°39	3°37	1°29	28° 4	17° 6	25°17	24° 3	27°41	n.a.	T 10
F 11	17 1 56	15°10'00	28°41	11°31	26°22	27°30	23°52	3°45	1°32	28° 3	17° 6	25°13	23°59	27°47	n.a.	F 11
S 12	17 5 52	16° 7'09	10♍43	12°31	27°30	27°15	24° 6	3°52	1°36	28° 1	17° 7	25°D12	23°56	27°54	n.a.	S 12
S 13	17 9 49	17° 4'17	22°57	13°28	28°38	27° 1	24°19	4° 0	1°39	28° 0	17° 7	25°12	23°53	28° 1	n.a.	S 13
M14	17 13 45	18° 1'26	5♎29	14°21	29°46	26°48	24°32	4° 7	1°43	27°58	17° 7	25°12	23°50	28° 7	n.a.	M14
T 15	17 17 42	18°58'35	18°23	15°12	0♏53	26°36	24°46	4°15	1°47	27°56	17° 7	25°R13	23°47	28°14	n.a.	T 15
W16	17 21 39	19°55'44	1♏42	15°58	2° 1	26°24	24°59	4°22	1°50	27°55	17° 7	25°13	23°44	28°21	n.a.	W16
T 17	17 25 35	20°52'53	15°29	16°42	3° 8	26°12	25°12	4°30	1°54	27°53	17° 7	25°12	23°40	28°28	n.a.	T 17
F 18	17 29 32	21°50'03	29°43	17°21	4°15	26° 2	25°26	4°38	1°58	27°52	17° 7	25° 8	23°37	28°34	n.a.	F 18
S 19	17 33 28	22°47'13	14♐22	17°57	5°22	25°52	25°39	4°45	2° 1	27°50	17° 7	25° 2	23°34	28°41	n.a.	S 19
S 20	17 37 25	23°44'24	29°18	18°29	6°29	25°43	25°52	4°53	2° 5	27°48	17° 7	24°54	23°31	28°48	n.a.	S 20
M21	17 41 21	24°41'35	14♑24	18°57	7°36	25°35	26° 6	5° 1	2° 8	27°47	17°R 7	24°45	23°28	28°55	n.a.	M21
T 22	17 45 18	25°38'48	29°29	19°20	8°42	25°27	26°19	5° 8	2°12	27°45	17° 7	24°37	23°24	29° 1	n.a.	T 22
W23	17 49 15	26°36'01	14♒23	19°39	9°49	25°20	26°32	5°16	2°16	27°43	17° 7	24°29	23°21	29° 8	n.a.	W23
T 24	17 53 11	27°33'14	29° 0	19°53	10°55	25°14	26°46	5°24	2°19	27°42	17° 7	24°24	23°18	29°15	n.a.	T 24
F 25	17 57 8	28°30'29	13♓14	20° 2	12° 1	25° 9	26°59	5°31	2°23	27°40	17° 7	24°21	23°15	29°21	n.a.	F 25
S 26	18 1 4	29°27'45	27° 5	20°R 7	13° 7	25° 5	27°12	5°39	2°27	27°39	17° 7	24°D20	23°12	29°28	n.a.	S 26
S 27	18 5 1	0♋25'02	10♈33	20° 6	14°13	25° 1	27°26	5°47	2°30	27°37	17° 7	24°21	23° 9	29°35	n.a.	S 27
M28	18 8 57	1°22'20	23°40	20° 1	15°18	24°58	27°39	5°54	2°34	27°35	17° 7	24°R21	23° 5	29°42	n.a.	M28
T 29	18 12 54	2°19'39	6♉30	19°50	16°24	24°56	27°52	6° 2	2°38	27°34	17° 7	24°20	23° 2	29°48	n.a.	T 29
W30	18 16 50	3♋17'00	19♉ 5	19♋34	17♏29	24♏55	28♊ 6	6♋10	2♋41	27♐32	17♓ 7	24♎18	22♎59	29♋55	n.a.	W30

Day	☉	☽			☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat		decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n29	10n20	0s 3		25n24	1n42	24n54	2n 3	23s41	3s20	23n34	0n 8	23n43	0n 1	24n 4	0n21	22s59	0n43	20s48	17s 6	10s12	9s36	16n 1		n.a.
W 2	21 39	13 41	1 12		25 19	1 36	24 45	2 2	23 41	3 23	23 35	0 8	23 43	0 2	24 4	0 21	22 59	0 43	20 49	17 6	10 12	9 35	15 59		n.a.
T 3	21 49	16 19	2 16		25 12	1 30	24 36	2 2	23 40	3 26	23 36	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 49	17 6	10 11	9 34	15 58		n.a.
F 4	21 58	18 8	3 13		25 3	1 23	24 26	2 1	23 39	3 30	23 37	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 49	17 7	10 9	9 33	15 57		n.a.
S 5	22 7	19 5	4 0		24 54	1 16	24 15	2 0	23 39	3 33	23 38	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 49	17 7	10 7	9 32	15 56		n.a.
S 6	22 16	19 7	4 35		24 43	1 8	24 4	1 59	23 38	3 36	23 39	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 49	17 7	10 4	9 30	15 55		n.a.
M 7	22 24	18 18	4 58		24 31	1 0	23 52	1 58	23 37	3 39	23 39	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 49	17 8	10 1	9 29	15 53		n.a.
T 8	22 32	16 40	5 7		24 18	0 51	23 39	1 57	23 36	3 42	23 40	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 50	17 8	9 58	9 28	15 52		n.a.
W 9	22 39	14 21	5 3		24 4	0 41	23 26	1 56	23 35	3 44	23 41	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 50	17 8	9 55	9 27	15 51		n.a.
T 10	22 46	11 26	4 46		23 49	0 32	23 12	1 54	23 34	3 47	23 42	0 8	23 42	0 2	24 4	0 21	22 59	0 43	20 50	17 9	9 53	9 26	15 50		n.a.
F 11	22 52	8 3	4 17		23 33	0 21	22 58	1 53	23 33	3 50	23 43	0 9	23 42	0 2	24 4	0 21	22 59	0 43	20 50	17 9	9 52	9 25	15 48		n.a.
S 12	22 59	4 18	3 36		23 17	0 10	22 43	1 51	23 32	3 52	23 43	0 9	23 42	0 2	24 3	0 21	22 59	0 43	20 51	17 10	9 51	9 23	15 47		n.a.
S 13	23 4	0 19	2 44		23 0	0s 1	22 27	1 50	23 30	3 54	23 44	0 9	23 41	0 3	24 3	0 21	22 59	0 43	20 51	17 10	9 51	9 22	15 46		n.a.
M14	23 10	3s48	1 44		22 43	0 12	22 11	1 48	23 29	3 56	23 45	0 9	23 41	0 3	24 3	0 21	22 59	0 43	20 51	17 10	9 52	9 21	15 45		n.a.
T 15	23 15	7 51	0 37		22 26	0 24	21 55	1 46	23 28	3 58	23 45	0 9	23 41	0 3	24 3	0 21	22 59	0 43	20 51	17 11	9 52	9 20	15 43		n.a.
W16	23 19	11 39	0n35		22 8	0 37	21 37	1 44	23 27	4 0	23 46	0 9	23 41	0 3	24 3	0 21	22 59	0 43	20 52	17 11	9 52	9 19	15 42		n.a.
T 17	23 24	14 58	1 46		21 50	0 50	21 20	1 42	23 26	4 2	23 46	0 9	23 41	0 3	24 3	0 21	22 59	0 43	20 52	17 11	9 51	9 17	15 41		n.a.
F 18	23 27	17 29	2 54		21 32	1 3	21 1	1 40	23 26	4 4	23 47	0 9	23 41	0 3	24 3	0 21	22 59	0 43	20 52	17 12	9 50	9 16	15 40		n.a.
S 19	23 31	18 57	3 52		21 14	1 16	20 43	1 37	23 25	4 6	23 48	0 9	23 40	0 3	24 3	0 21	22 59	0 43	20 53	17 12	9 48	9 15	15 38		n.a.
S 20	23 34	19 8	4 35		20 57	1 29	20 23	1 35	23 24	4 7	23 48	0 9	23 40	0 3	24 3	0 21	22 59	0 43	20 53	17 12	9 45	9 14	15 37		n.a.
M21	23 36	17 58	4 59		20 39	1 43	20 4	1 32	23 23	4 8	23 49	0 10	23 40	0 3	24 3	0 22	22 59	0 43	20 53	17 13	9 42	9 13	15 36		n.a.
T 22	23 38	15 33	5 3		20 22	1 57	19 44	1 30	23 23	4 10	23 49	0 10	23 40	0 3	24 3	0 22	22 59	0 43	20 54	17 13	9 38	9 12	15 34		n.a.
W23	23 40	12 8	4 46		20 6	2 11	19 23	1 27	23 22	4 11	23 50	0 10	23 40	0 3	24 3	0 22	22 59	0 43	20 54	17 14	9 36	9 10	15 33		n.a.
T 24	23 41	8 2	4 11		19 50	2 25	19 2	1 24	23 22	4 12	23 50	0 10	23 39	0 3	24 3	0 22	22 58	0 43	20 54	17 14	9 34	9 9	15 32		n.a.
F 25	23 42	3 35	3 21		19 35	2 39	18 40	1 21	23 21	4 13	23 50	0 10	23 39	0 4	24 3	0 22	22 58	0 43	20 55	17 14	9 33	9 8	15 31		n.a.
S 26	23 43	0n58	2 20		19 20	2 53	18 18	1 18	23 21	4 14	23 51	0 10	23 39	0 4	24 3	0 22	22 58	0 43	20 55	17 15	9 32	9 7	15 29		n.a.
S 27	23 43	5 20	1 13		19 7	3 6	17 56	1 14	23 21	4 15	23 51	0 10	23 39	0 4	24 3	0 22	22 58	0 43	20 55	17 15	9 32	9 6	15 28		n.a.
M28	23 42	9 21	0 4		18 55	3 19	17 33	1 11	23 21	4 16	23 52	0 10	23 38	0 4	24 3	0 22	22 58	0 43	20 56	17 15	9 33	9 4	15 27		n.a.
T 29	23 41	12 50	1s 4		18 44	3 32	17 10	1 7	23 21	4 16	23 52	0 10	23 38	0 4	24 3	0 22	22 58	0 43	20 56	17 16	9 32	9 3	15 26		n.a.
W30	23n40	15n39	2s 7		18n34	3s44	16n47	1n 4	23s21	4s17	23n52	0n10	23n38	0n 4	24n 3	0n22	22s58	0n43	20s57	17s16	9s31	9s 2	15n24		n.a.

Julian Day Number = 1668247.5, Delta T = 03h21m59s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'37, Lahiri = - 5°57'36 Julian Calendar 1 June 146 BCE == Greg. Calendar 29 May 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

JULY 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 20 47	4♋14'21	1♊29	19°R14	18♌34	24°D55	28♊19	6♋18	2♋45	27°R30	17°R 6	24°R13	22♎56	0♌ 2	n.a.	T 1
F 2	18 24 44	5°11'44	13°44	18♋48	19°39	24♏56	28°32	6°25	2°49	27♐29	17♓ 6	24♎ 5	22°53	0° 8	n.a.	F 2
S 3	18 28 40	6° 9'08	25°51	18°18	20°43	24°57	28°46	6°33	2°52	27°27	17° 6	23°54	22°50	0°15	n.a.	S 3
S 4	18 32 37	7° 6'33	7♋52	17°44	21°48	24°59	28°59	6°41	2°56	27°26	17° 6	23°42	22°46	0°22	n.a.	S 4
M 5	18 36 33	8° 3'59	19°48	17° 6	22°52	25° 2	29°12	6°49	3° 0	27°24	17° 5	23°29	22°43	0°29	n.a.	M 5
T 6	18 40 30	9° 1'26	1♌41	16°25	23°56	25° 6	29°26	6°56	3° 3	27°22	17° 5	23°16	22°40	0°35	n.a.	T 6
W 7	18 44 26	9°58'54	13°32	15°41	25° 0	25°11	29°39	7° 4	3° 7	27°21	17° 5	23° 4	22°37	0°42	n.a.	W 7
T 8	18 48 23	10°56'23	25°23	14°55	26° 4	25°17	29°52	7°12	3°11	27°19	17° 4	22°54	22°34	0°49	n.a.	T 8
F 9	18 52 19	11°53'52	7♍18	14° 8	27° 7	25°23	0♋ 5	7°20	3°14	27°18	17° 4	22°47	22°30	0°56	n.a.	F 9
S 10	18 56 16	12°51'23	19°19	13°20	28°10	25°30	0°18	7°27	3°18	27°16	17° 4	22°43	22°27	1° 2	n.a.	S 10
S 11	19 0 13	13°48'55	1♎32	12°33	29°13	25°38	0°32	7°35	3°22	27°15	17° 3	22°41	22°24	1° 9	n.a.	S 11
M12	19 4 9	14°46'28	14° 0	11°47	0♍16	25°47	0°45	7°43	3°25	27°13	17° 3	22°41	22°21	1°16	n.a.	M12
T 13	19 8 6	15°44'01	26°49	11° 4	1°18	25°56	0°58	7°50	3°29	27°12	17° 2	22°41	22°18	1°22	n.a.	T 13
W14	19 12 2	16°41'36	10♏ 3	10°24	2°20	26° 7	1°11	7°58	3°33	27°10	17° 2	22°40	22°15	1°29	n.a.	W14
T 15	19 15 59	17°39'12	23°46	9°48	3°22	26°18	1°24	8° 6	3°36	27° 9	17° 1	22°38	22°11	1°36	n.a.	T 15
F 16	19 19 55	18°36'49	7♐59	9°16	4°23	26°30	1°37	8°13	3°40	27° 7	17° 1	22°33	22° 8	1°43	n.a.	F 16
S 17	19 23 52	19°34'27	22°40	8°50	5°24	26°42	1°50	8°21	3°43	27° 6	17° 0	22°25	22° 5	1°49	n.a.	S 17
S 18	19 27 48	20°32'07	7♑43	8°31	6°25	26°55	2° 3	8°29	3°47	27° 4	17° 0	22°15	22° 2	1°56	n.a.	S 18
M19	19 31 45	21°29'48	23° 0	8°17	7°26	27° 9	2°16	8°36	3°50	27° 3	16°59	22° 5	21°59	2° 3	n.a.	M19
T 20	19 35 42	22°27'30	8♒19	8°D11	8°26	27°24	2°29	8°44	3°54	27° 1	16°59	21°54	21°56	2° 9	n.a.	T 20
W21	19 39 38	23°25'14	23°29	8°12	9°26	27°39	2°42	8°52	3°58	27° 0	16°58	21°45	21°52	2°16	n.a.	W21
T 22	19 43 35	24°22'59	8♓21	8°20	10°25	27°55	2°55	8°59	4° 1	26°58	16°57	21°38	21°49	2°23	n.a.	T 22
F 23	19 47 31	25°20'47	22°47	8°37	11°24	28°12	3° 8	9° 7	4° 5	26°57	16°57	21°33	21°46	2°30	n.a.	F 23
S 24	19 51 28	26°18'36	6♈46	9° 0	12°23	28°29	3°20	9°14	4° 8	26°56	16°56	21°31	21°43	2°36	n.a.	S 24
S 25	19 55 24	27°16'27	20°17	9°32	13°22	28°47	3°33	9°22	4°11	26°54	16°55	21°31	21°40	2°43	n.a.	S 25
M26	19 59 21	28°14'19	3♉24	10°11	14°20	29° 5	3°46	9°29	4°15	26°53	16°55	21°31	21°36	2°50	n.a.	M26
T 27	20 3 17	29°12'14	16° 8	10°58	15°17	29°24	3°59	9°37	4°18	26°52	16°54	21°30	21°33	2°57	n.a.	T 27
W28	20 7 14	0♌10'11	28°36	11°51	16°14	29°44	4°11	9°44	4°22	26°50	16°53	21°27	21°30	3° 3	n.a.	W28
T 29	20 11 11	1° 8'10	10♊51	12°52	17°11	0♐ 4	4°24	9°51	4°25	26°49	16°53	21°22	21°27	3°10	n.a.	T 29
F 30	20 15 7	2° 6'10	22°57	13°59	18° 7	0°24	4°36	9°59	4°29	26°48	16°52	21°14	21°24	3°17	n.a.	F 30
S 31	20 19 4	3♌ 4'13	4♋55	15♋13	19♍ 3	0♐46	4♋49	10♋ 6	4♋32	26♐47	16♓51	21♎ 3	21♎21	3♌23	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23n38	17n42	3s 4	18n25	3s56	16n23	1n 0	23s22	4s17	23n52	0n11	23n38	0n 4	24n 2	0n22	22s58	0n43	20s57	17s16	9s29	9s 1	15n23			n.a.
F 2	23 36	18 54	3 50	18 18	4 6	15 59	0 56	23 22	4 18	23 53	0 11	23 37	0 4	24 2	0 22	22 58	0 43	20 57	17 17	9 27	9 0	15 22			n.a.
S 3	23 34	19 13	4 26	18 13	4 16	15 34	0 52	23 23	4 18	23 53	0 11	23 37	0 4	24 2	0 22	22 58	0 43	20 58	17 17	9 23	8 58	15 20			n.a.
S 4	23 31	18 39	4 49	18 9	4 24	15 10	0 48	23 24	4 18	23 53	0 11	23 37	0 4	24 2	0 22	22 58	0 43	20 58	17 18	9 18	8 57	15 19			n.a.
M 5	23 28	17 17	5 0	18 7	4 31	14 44	0 44	23 25	4 18	23 53	0 11	23 36	0 4	24 2	0 22	22 58	0 43	20 59	17 18	9 13	8 56	15 18			n.a.
T 6	23 24	15 11	4 57	18 6	4 37	14 19	0 40	23 26	4 18	23 54	0 11	23 36	0 5	24 2	0 22	22 58	0 43	20 59	17 18	9 8	8 55	15 16			n.a.
W 7	23 20	12 27	4 42	18 8	4 41	13 53	0 35	23 27	4 18	23 54	0 11	23 36	0 5	24 2	0 22	22 58	0 43	21 0	17 19	9 4	8 54	15 15			n.a.
T 8	23 15	9 13	4 14	18 10	4 43	13 27	0 31	23 28	4 18	23 54	0 11	23 35	0 5	24 2	0 22	22 58	0 43	21 0	17 19	9 0	8 52	15 14			n.a.
F 9	23 10	5 36	3 36	18 15	4 44	13 1	0 26	23 30	4 18	23 54	0 11	23 35	0 5	24 2	0 22	22 58	0 43	21 0	17 19	8 58	8 51	15 13			n.a.
S 10	23 5	1 43	2 47	18 21	4 43	12 35	0 22	23 31	4 18	23 54	0 11	23 35	0 5	24 2	0 22	22 58	0 43	21 1	17 20	8 56	8 50	15 11			n.a.
S 11	22 59	2s17	1 49	18 28	4 39	12 8	0 17	23 33	4 18	23 54	0 12	23 34	0 5	24 2	0 22	22 58	0 43	21 1	17 20	8 55	8 49	15 10			n.a.
M12	22 53	6 17	0 46	18 37	4 35	11 41	0 12	23 35	4 17	23 54	0 12	23 34	0 5	24 2	0 22	22 58	0 43	21 2	17 20	8 55	8 48	15 9			n.a.
T 13	22 46	10 7	0n22	18 48	4 28	11 14	0 7	23 37	4 17	23 54	0 12	23 34	0 5	24 2	0 22	22 58	0 43	21 2	17 21	8 55	8 47	15 7			n.a.
W14	22 39	13 34	1 31	18 59	4 20	10 47	0 1	23 39	4 16	23 54	0 12	23 33	0 5	24 1	0 22	22 58	0 43	21 3	17 21	8 55	8 45	15 6			n.a.
T 15	22 32	16 24	2 36	19 12	4 10	10 20	0s 4	23 41	4 16	23 54	0 12	23 33	0 5	24 1	0 22	22 58	0 43	21 3	17 21	8 54	8 44	15 5			n.a.
F 16	22 24	18 21	3 35	19 25	3 58	9 52	0 9	23 43	4 15	23 54	0 12	23 33	0 5	24 1	0 22	22 58	0 43	21 4	17 22	8 52	8 43	15 3			n.a.
S 17	22 16	19 9	4 21	19 40	3 45	9 24	0 15	23 46	4 15	23 54	0 12	23 32	0 6	24 1	0 22	22 58	0 43	21 4	17 22	8 49	8 42	15 2			n.a.
S 18	22 7	18 39	4 51	19 55	3 32	8 57	0 20	23 48	4 14	23 54	0 12	23 32	0 6	24 1	0 22	22 58	0 43	21 5	17 22	8 46	8 41	15 1			n.a.
M19	21 58	16 47	5 0	20 10	3 17	8 29	0 26	23 51	4 14	23 54	0 12	23 31	0 6	24 1	0 22	22 58	0 42	21 5	17 22	8 42	8 39	14 59			n.a.
T 20	21 49	13 45	4 48	20 26	3 1	8 1	0 32	23 54	4 13	23 54	0 13	23 31	0 6	24 1	0 22	22 58	0 42	21 6	17 23	8 38	8 38	14 58			n.a.
W21	21 39	9 49	4 16	20 42	2 45	7 32	0 38	23 57	4 12	23 54	0 13	23 31	0 6	24 1	0 22	22 58	0 42	21 6	17 23	8 34	8 37	14 57			n.a.
T 22	21 29	5 20	3 27	20 59	2 28	7 4	0 44	24 0	4 11	23 53	0 13	23 30	0 6	24 1	0 22	22 58	0 42	21 7	17 23	8 31	8 36	14 55			n.a.
F 23	21 19	0 40	2 26	21 14	2 11	6 36	0 50	24 3	4 10	23 53	0 13	23 30	0 6	24 1	0 22	22 58	0 42	21 7	17 24	8 30	8 35	14 54			n.a.
S 24	21 8	3n54	1 17	21 30	1 54	6 7	0 56	24 6	4 10	23 53	0 13	23 29	0 6	24 1	0 22	22 58	0 42	21 8	17 24	8 29	8 33	14 53			n.a.
S 25	20 56	8 7	0 6	21 45	1 37	5 39	1 3	24 9	4 9	23 53	0 13	23 29	0 6	24 0	0 22	22 58	0 42	21 9	17 24	8 29	8 32	14 51			n.a.
M26	20 45	11 49	1s 2	21 59	1 20	5 11	1 9	24 12	4 8	23 53	0 13	23 28	0 6	24 0	0 22	22 58	0 42	21 9	17 25	8 29	8 31	14 50			n.a.
T 27	20 33	14 50	2 6	22 12	1 4	4 42	1 15	24 16	4 7	23 52	0 13	23 28	0 6	24 0	0 22	22 58	0 42	21 10	17 25	8 29	8 30	14 49			n.a.
W28	20 21	17 6	3 3	22 23	0 48	4 14	1 22	24 19	4 6	23 52	0 13	23 27	0 7	24 0	0 22	22 58	0 42	21 10	17 25	8 28	8 29	14 47			n.a.
T 29	20 8	18 32	3 49	22 33	0 32	3 45	1 29	24 23	4 5	23 52	0 14	23 27	0 7	24 0	0 22	22 58	0 42	21 11	17 25	8 26	8 27	14 46			n.a.
F 30	19 55	19 6	4 25	22 41	0 17	3 17	1 36	24 26	4 4	23 51	0 14	23 27	0 7	24 0	0 22	22 58	0 42	21 11	17 26	8 22	8 26	14 45			n.a.
S 31	19n42	18n48	4s49	22n48	0s 2	2n49	1s43	24s30	4s 3	23n51	0n14	23n26	0n 7	24n 0	0n22	22s58	0n42	21s12	17s26	8s18	8s25	14n43			n.a.

Julian Day Number = 1668277.5, Delta T = 03h21m58s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'33, Lahiri = - 5°57'32 Julian Calendar 1 July 146 BCE == Greg. Calendar 28 June 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

AUGUST 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 0	4♌ 2'17	16♋50	16♋33	19♍58	1♐ 8	5♋ 1	10♋14	4♋35	26°R45	16°R50	20°R51	21♎17	3♌30	n.a.	S 1
M 2	20 26 57	5° 0'23	28°43	17°58	20°53	1°30	5°14	10°21	4°39	26♐44	16♓49	20♎37	21°14	3°37	n.a.	M 2
T 3	20 30 53	5°58'31	10♌34	19°28	21°48	1°53	5°26	10°28	4°42	26°43	16°49	20°24	21°11	3°44	n.a.	T 3
W 4	20 34 50	6°56'41	22°27	21° 2	22°41	2°16	5°38	10°35	4°45	26°42	16°48	20°11	21° 8	3°50	n.a.	W 4
T 5	20 38 46	7°54'52	4♍21	22°41	23°35	2°40	5°51	10°43	4°48	26°41	16°47	20° 1	21° 5	3°57	n.a.	T 5
F 6	20 42 43	8°53'05	16°20	24°23	24°27	3° 5	6° 3	10°50	4°52	26°40	16°46	19°54	21° 2	4° 4	n.a.	F 6
S 7	20 46 40	9°51'20	28°25	26° 8	25°19	3°30	6°15	10°57	4°55	26°39	16°45	19°49	20°58	4°10	n.a.	S 7
S 8	20 50 36	10°49'36	10♎40	27°56	26°11	3°55	6°27	11° 4	4°58	26°38	16°44	19°47	20°55	4°17	n.a.	S 8
M 9	20 54 33	11°47'54	23°10	29°45	27° 1	4°21	6°39	11°11	5° 1	26°36	16°43	19°D47	20°52	4°24	n.a.	M 9
T 10	20 58 29	12°46'14	5♏57	1♌37	27°52	4°47	6°51	11°18	5° 4	26°35	16°42	19°47	20°49	4°31	n.a.	T 10
W11	21 2 26	13°44'35	19° 6	3°29	28°41	5°14	7° 3	11°25	5° 7	26°34	16°41	19°R48	20°46	4°37	n.a.	W11
T 12	21 6 22	14°42'58	2♐41	5°23	29°30	5°41	7°15	11°32	5°10	26°34	16°40	19°46	20°42	4°44	n.a.	T 12
F 13	21 10 19	15°41'23	16°44	7°17	0♎17	6° 9	7°27	11°39	5°13	26°33	16°39	19°43	20°39	4°51	n.a.	F 13
S 14	21 14 15	16°39'50	1♑15	9°11	1° 4	6°37	7°38	11°46	5°16	26°32	16°38	19°37	20°36	4°58	n.a.	S 14
S 15	21 18 12	17°38'18	16° 9	11° 6	1°51	7° 5	7°50	11°52	5°19	26°31	16°38	19°29	20°33	5° 4	n.a.	S 15
M16	21 22 9	18°36'48	1♒20	13° 0	2°36	7°34	8° 2	11°59	5°22	26°30	16°37	19°20	20°30	5°11	n.a.	M16
T 17	21 26 5	19°35'20	16°38	14°54	3°21	8° 3	8°13	12° 6	5°25	26°29	16°35	19°11	20°27	5°18	n.a.	T 17
W18	21 30 2	20°33'54	1♓51	16°47	4° 4	8°33	8°25	12°12	5°28	26°28	16°34	19° 3	20°23	5°24	n.a.	W18
T 19	21 33 58	21°32'30	16°50	18°40	4°47	9° 3	8°36	12°19	5°31	26°28	16°33	18°57	20°20	5°31	n.a.	T 19
F 20	21 37 55	22°31'08	1♈25	20°32	5°28	9°33	8°47	12°26	5°33	26°27	16°32	18°54	20°17	5°38	n.a.	F 20
S 21	21 41 51	23°29'48	15°33	22°23	6° 9	10° 3	8°58	12°32	5°36	26°26	16°31	18°D53	20°14	5°45	n.a.	S 21
S 22	21 45 48	24°28'31	29°12	24°14	6°48	10°34	9°10	12°39	5°39	26°25	16°30	18°53	20°11	5°51	n.a.	S 22
M23	21 49 44	25°27'16	12♉24	26° 4	7°27	11° 6	9°21	12°45	5°42	26°25	16°29	18°54	20° 7	5°58	n.a.	M23
T 24	21 53 41	26°26'03	25°12	27°52	8° 4	11°37	9°32	12°51	5°44	26°24	16°28	18°R55	20° 4	6° 5	n.a.	T 24
W25	21 57 37	27°24'53	7♊40	29°40	8°40	12° 9	9°43	12°58	5°47	26°24	16°27	18°54	20° 1	6°11	n.a.	W25
T 26	22 1 34	28°23'45	19°52	1♍27	9°14	12°41	9°53	13° 4	5°49	26°23	16°26	18°51	19°58	6°18	n.a.	T 26
F 27	22 5 31	29°22'40	1♋54	3°13	9°48	13°14	10° 4	13°10	5°52	26°23	16°25	18°47	19°55	6°25	n.a.	F 27
S 28	22 9 27	0♍21'36	13°49	4°58	10°20	13°46	10°15	13°16	5°55	26°22	16°24	18°40	19°52	6°32	n.a.	S 28
S 29	22 13 24	1°20'35	25°41	6°42	10°50	14°19	10°25	13°22	5°57	26°22	16°23	18°32	19°48	6°38	n.a.	S 29
M30	22 17 20	2°19'37	7♌33	8°25	11°20	14°53	10°36	13°28	5°59	26°21	16°21	18°23	19°45	6°45	n.a.	M30
T 31	22 21 17	3♍18'40	19♌26	10♍ 8	11♎47	15♐26	10♋46	13♋34	6♋ 2	26♐21	16♓20	18♎14	19♎42	6♌52	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n28	17n41	5s 0	22n52	0n12	2n20	1s50	24s33	4s 2	23n51	0n14	23n26	0n 7	24n 0	0n22	22s58	0n42	21s12	17s26	8s14	8s24	14n42		n.a.
M 2	19 14	15 48	4 57	22 54	0 24	1 52	1 57	24 37	4 1	23 50	0 14	23 25	0 7	24 0	0 22	22 58	0 42	21 13	17 26	8 8	8 23	14 41		n.a.
T 3	18 59	13 15	4 42	22 53	0 36	1 24	2 4	24 41	3 59	23 50	0 14	23 25	0 7	24 0	0 22	22 58	0 42	21 13	17 27	8 3	8 21	14 39		n.a.
W 4	18 45	10 10	4 15	22 50	0 48	0 56	2 11	24 44	3 58	23 50	0 14	23 24	0 7	23 59	0 22	22 58	0 42	21 14	17 27	7 59	8 20	14 38		n.a.
T 5	18 30	6 40	3 36	22 44	0 58	0 28	2 18	24 48	3 57	23 49	0 14	23 24	0 7	23 59	0 22	22 58	0 42	21 15	17 27	7 55	8 19	14 37		n.a.
F 6	18 14	2 53	2 48	22 35	1 7	0s 0	2 26	24 52	3 56	23 49	0 15	23 23	0 7	23 59	0 22	22 58	0 42	21 15	17 27	7 52	8 18	14 35		n.a.
S 7	17 59	1s 3	1 51	22 23	1 15	0 28	2 33	24 56	3 55	23 48	0 15	23 23	0 7	23 59	0 22	22 58	0 42	21 16	17 28	7 50	8 16	14 34		n.a.
S 8	17 43	5 1	0 48	22 9	1 22	0 55	2 41	24 59	3 53	23 48	0 15	23 22	0 8	23 59	0 22	22 58	0 42	21 16	17 28	7 49	8 15	14 32		n.a.
M 9	17 27	8 49	0n18	21 53	1 29	1 23	2 49	25 3	3 52	23 47	0 15	23 22	0 8	23 59	0 22	22 58	0 42	21 17	17 28	7 49	8 14	14 31		n.a.
T 10	17 10	12 19	1 25	21 33	1 34	1 50	2 56	25 7	3 51	23 47	0 15	23 21	0 8	23 59	0 22	22 58	0 42	21 17	17 28	7 50	8 13	14 30		n.a.
W11	16 53	15 18	2 30	21 12	1 39	2 17	3 4	25 11	3 50	23 46	0 15	23 21	0 8	23 59	0 22	22 58	0 42	21 18	17 29	7 50	8 12	14 28		n.a.
T 12	16 36	17 32	3 28	20 47	1 42	2 43	3 12	25 14	3 48	23 46	0 15	23 20	0 8	23 59	0 22	22 58	0 42	21 19	17 29	7 49	8 10	14 27		n.a.
F 13	16 19	18 48	4 16	20 21	1 45	3 10	3 20	25 18	3 47	23 45	0 15	23 20	0 8	23 59	0 22	22 58	0 42	21 19	17 29	7 48	8 9	14 26		n.a.
S 14	16 1	18 54	4 49	19 53	1 47	3 36	3 28	25 22	3 46	23 45	0 16	23 19	0 8	23 58	0 22	22 58	0 42	21 20	17 29	7 45	8 8	14 24		n.a.
S 15	15 43	17 42	5 4	19 22	1 48	4 2	3 36	25 25	3 44	23 44	0 16	23 19	0 8	23 58	0 22	22 58	0 42	21 20	17 29	7 42	8 7	14 23		n.a.
M16	15 25	15 15	4 57	18 50	1 49	4 28	3 44	25 29	3 43	23 44	0 16	23 18	0 8	23 58	0 22	22 58	0 42	21 21	17 29	7 39	8 6	14 21		n.a.
T 17	15 7	11 44	4 30	18 17	1 49	4 53	3 52	25 33	3 42	23 43	0 16	23 18	0 8	23 58	0 22	22 58	0 42	21 21	17 30	7 36	8 4	14 20		n.a.
W18	14 48	7 27	3 44	17 42	1 48	5 18	4 0	25 36	3 40	23 42	0 16	23 17	0 9	23 58	0 22	22 58	0 42	21 22	17 30	7 33	8 3	14 19		n.a.
T 19	14 29	2 46	2 43	17 5	1 47	5 43	4 9	25 40	3 39	23 42	0 16	23 17	0 9	23 58	0 22	22 58	0 42	21 23	17 30	7 30	8 2	14 17		n.a.
F 20	14 10	1n59	1 32	16 28	1 45	6 7	4 17	25 43	3 37	23 41	0 16	23 16	0 9	23 58	0 22	22 58	0 42	21 23	17 30	7 29	8 1	14 16		n.a.
S 21	13 50	6 28	0 18	15 49	1 42	6 31	4 25	25 46	3 36	23 41	0 16	23 16	0 9	23 58	0 22	22 58	0 42	21 24	17 30	7 29	8 0	14 14		n.a.
S 22	13 31	10 27	0s55	15 9	1 39	6 54	4 33	25 49	3 35	23 40	0 17	23 15	0 9	23 58	0 22	22 58	0 42	21 24	17 30	7 29	7 58	14 13		n.a.
M23	13 11	13 47	2 3	14 29	1 36	7 17	4 42	25 53	3 33	23 39	0 17	23 15	0 9	23 58	0 22	22 58	0 42	21 25	17 31	7 29	7 57	14 12		n.a.
T 24	12 51	16 20	3 2	13 47	1 32	7 40	4 50	25 56	3 32	23 39	0 17	23 14	0 9	23 58	0 22	22 58	0 41	21 25	17 31	7 29	7 56	14 10		n.a.
W25	12 30	18 2	3 52	13 5	1 28	8 2	4 58	25 59	3 30	23 38	0 17	23 13	0 9	23 57	0 23	22 58	0 41	21 26	17 31	7 29	7 55	14 9		n.a.
T 26	12 10	18 51	4 29	12 23	1 24	8 23	5 7	26 2	3 29	23 37	0 17	23 13	0 9	23 57	0 23	22 58	0 41	21 26	17 31	7 28	7 54	14 8		n.a.
F 27	11 49	18 48	4 54	11 40	1 19	8 44	5 15	26 4	3 27	23 37	0 17	23 12	0 9	23 57	0 23	22 58	0 41	21 27	17 31	7 26	7 52	14 6		n.a.
S 28	11 28	17 55	5 6	10 57	1 14	9 5	5 23	26 7	3 26	23 36	0 17	23 12	0 10	23 57	0 23	22 58	0 41	21 27	17 31	7 24	7 51	14 5		n.a.
S 29	11 7	16 15	5 5	10 13	1 9	9 25	5 32	26 10	3 24	23 35	0 18	23 11	0 10	23 57	0 23	22 58	0 41	21 28	17 31	7 21	7 50	14 3		n.a.
M30	10 46	13 55	4 50	9 29	1 3	9 44	5 40	26 12	3 23	23 35	0 18	23 11	0 10	23 57	0 23	22 58	0 41	21 29	17 31	7 17	7 49	14 2		n.a.
T 31	10n24	10n59	4s23	8n45	0n58	10s 2	5s48	26s15	3s22	23n34	0n18	23n10	0n10	23n57	0n23	22s58	0n41	21s29	17s31	7s14	7s47	14n 0		n.a.

Julian Day Number = 1668308.5, Delta T = 03h21m57s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'28, Lahiri = - 5°57'28 Julian Calendar 1 Aug. 146 BCE == Greg. Calendar 29 July 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

SEPTEMBER 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 25 13	4♍17'46	1♍23	11♍49	12♎13	16♐ 0	10♋56	13♋40	6♋ 4	26°R20	16°R19	18°R 6	19♎39	6♌58	n.a.	W 1
T 2	22 29 10	5°16'54	13°24	13°30	12°38	16°34	11° 7	13°46	6° 6	26♐20	16♓18	18♎ 0	19°36	7° 5	n.a.	T 2
F 3	22 33 6	6°16'04	25°32	15° 9	13° 0	17° 9	11°17	13°51	6° 9	26°20	16°17	17°55	19°33	7°12	n.a.	F 3
S 4	22 37 3	7°15'16	7♎48	16°48	13°21	17°43	11°27	13°57	6°11	26°19	16°16	17°53	19°29	7°19	n.a.	S 4
S 5	22 40 59	8°14'30	20°14	18°26	13°41	18°18	11°37	14° 3	6°13	26°19	16°15	17°D52	19°26	7°25	n.a.	S 5
M 6	22 44 56	9°13'46	2♏53	20° 3	13°58	18°53	11°46	14° 8	6°15	26°19	16°13	17°53	19°23	7°32	n.a.	M 6
T 7	22 48 53	10°13'04	15°46	21°39	14°13	19°29	11°56	14°14	6°17	26°19	16°12	17°54	19°20	7°39	n.a.	T 7
W 8	22 52 49	11°12'24	28°57	23°15	14°26	20° 4	12° 6	14°19	6°19	26°19	16°11	17°56	19°17	7°45	n.a.	W 8
T 9	22 56 46	12°11'46	12♐29	24°50	14°37	20°40	12°15	14°24	6°21	26°19	16°10	17°R56	19°13	7°52	n.a.	T 9
F 10	23 0 42	13°11'09	26°22	26°24	14°46	21°16	12°25	14°30	6°23	26°18	16° 9	17°56	19°10	7°59	n.a.	F 10
S 11	23 4 39	14°10'35	10♑38	27°57	14°53	21°53	12°34	14°35	6°25	26°18	16° 8	17°53	19° 7	8° 6	n.a.	S 11
S 12	23 8 35	15°10'02	25°14	29°30	14°58	22°29	12°43	14°40	6°27	26°D18	16° 6	17°50	19° 4	8°12	n.a.	S 12
M13	23 12 32	16° 9'31	10♒ 5	1♎ 1	15°R 0	23° 6	12°52	14°45	6°29	26°18	16° 5	17°45	19° 1	8°19	n.a.	M13
T 14	23 16 28	17° 9'02	25° 4	2°32	15° 0	23°42	13° 1	14°50	6°31	26°18	16° 4	17°41	18°58	8°26	n.a.	T 14
W15	23 20 25	18° 8'35	10♓ 3	4° 3	14°57	24°19	13°10	14°55	6°32	26°19	16° 3	17°37	18°54	8°32	n.a.	W15
T 16	23 24 22	19° 8'10	24°53	5°32	14°52	24°57	13°18	14°59	6°34	26°19	16° 2	17°34	18°51	8°39	n.a.	T 16
F 17	23 28 18	20° 7'47	9♈26	7° 1	14°45	25°34	13°27	15° 4	6°35	26°19	16° 1	17°33	18°48	8°46	n.a.	F 17
S 18	23 32 15	21° 7'26	23°36	8°29	14°35	26°12	13°35	15° 9	6°37	26°19	15°59	17°D32	18°45	8°53	n.a.	S 18
S 19	23 36 11	22° 7'08	7♉20	9°57	14°23	26°49	13°44	15°13	6°39	26°19	15°58	17°33	18°42	8°59	n.a.	S 19
M20	23 40 8	23° 6'52	20°38	11°24	14° 9	27°27	13°52	15°17	6°40	26°19	15°57	17°35	18°39	9° 6	n.a.	M20
T 21	23 44 4	24° 6'38	3♊32	12°50	13°52	28° 5	14° 0	15°22	6°41	26°20	15°56	17°37	18°35	9°13	n.a.	T 21
W22	23 48 1	25° 6'27	16° 5	14°15	13°33	28°43	14° 8	15°26	6°43	26°20	15°55	17°38	18°32	9°19	n.a.	W22
T 23	23 51 57	26° 6'18	28°20	15°39	13°11	29°22	14°16	15°30	6°44	26°20	15°54	17°R38	18°29	9°26	n.a.	T 23
F 24	23 55 54	27° 6'11	10♋23	17° 3	12°48	0♑ 0	14°23	15°34	6°45	26°21	15°53	17°37	18°26	9°33	n.a.	F 24
S 25	23 59 51	28° 6'07	22°18	18°25	12°22	0°39	14°31	15°38	6°47	26°21	15°51	17°36	18°23	9°40	n.a.	S 25
S 26	0 3 47	29° 6'05	4♌ 9	19°47	11°55	1°17	14°38	15°42	6°48	26°22	15°50	17°33	18°19	9°46	n.a.	S 26
M27	0 7 44	0♎ 6'05	16° 1	21° 8	11°25	1°56	14°45	15°46	6°49	26°22	15°49	17°31	18°16	9°53	n.a.	M27
T 28	0 11 40	1° 6'07	27°57	22°27	10°54	2°35	14°52	15°50	6°50	26°23	15°48	17°28	18°13	10° 0	n.a.	T 28
W29	0 15 37	2° 6'12	9♍59	23°46	10°22	3°14	14°59	15°53	6°51	26°23	15°47	17°25	18°10	10° 6	n.a.	W29
T 30	0 19 33	3♎ 6'18	22♍10	25♎ 3	9♎49	3♑54	15♋ 6	15♋57	6♋52	26♐24	15♓46	17♎23	18♎ 7	10♌13	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	10n 3	7n37	3s45	8n 0	0n52	10s20	5s56	26s17	3s20	23n33	0n18	23n10	0n10	23n57	0n23	22s58	0n41	21s30	17s32	7s11	7s46	13n59		n.a.
T 2	9 41	3 54	2 56	7 16	0 46	10 37	6 4	26 19	3 19	23 33	0 18	23 9	0 10	23 57	0 23	22 58	0 41	21 30	17 32	7 8	7 45	13 58		n.a.
F 3	9 19	0s 1	1 58	6 31	0 39	10 53	6 12	26 21	3 17	23 32	0 18	23 9	0 10	23 57	0 23	22 58	0 41	21 31	17 32	7 6	7 44	13 56		n.a.
S 4	8 57	3 58	0 54	5 46	0 33	11 9	6 20	26 23	3 15	23 31	0 18	23 8	0 10	23 57	0 23	22 58	0 41	21 31	17 32	7 5	7 43	13 55		n.a.
S 5	8 34	7 48	0n13	5 2	0 26	11 23	6 27	26 25	3 14	23 30	0 19	23 8	0 10	23 57	0 23	22 58	0 41	21 32	17 32	7 5	7 41	13 53		n.a.
M 6	8 12	11 21	1 21	4 17	0 20	11 37	6 35	26 26	3 12	23 30	0 19	23 8	0 11	23 56	0 23	22 58	0 41	21 32	17 32	7 6	7 40	13 52		n.a.
T 7	7 49	14 25	2 26	3 33	0 13	11 50	6 42	26 28	3 11	23 29	0 19	23 7	0 11	23 56	0 23	22 59	0 41	21 33	17 32	7 6	7 39	13 51		n.a.
W 8	7 27	16 49	3 25	2 48	0 6	12 1	6 49	26 29	3 9	23 28	0 19	23 7	0 11	23 56	0 23	22 59	0 41	21 33	17 32	7 7	7 38	13 49		n.a.
T 9	7 4	18 20	4 15	2 4	0s 1	12 12	6 56	26 30	3 8	23 27	0 19	23 6	0 11	23 56	0 23	22 59	0 41	21 34	17 32	7 7	7 37	13 48		n.a.
F 10	6 41	18 49	4 50	1 20	0 8	12 22	7 3	26 31	3 6	23 27	0 19	23 6	0 11	23 56	0 23	22 59	0 41	21 34	17 32	7 7	7 35	13 46		n.a.
S 11	6 18	18 8	5 10	0 36	0 15	12 30	7 9	26 32	3 5	23 26	0 20	23 5	0 11	23 56	0 23	22 59	0 41	21 35	17 32	7 6	7 34	13 45		n.a.
S 12	5 55	16 15	5 10	0s 7	0 22	12 38	7 15	26 33	3 3	23 25	0 20	23 5	0 11	23 56	0 23	22 59	0 41	21 35	17 32	7 4	7 33	13 43		n.a.
M13	5 31	13 17	4 49	0 51	0 29	12 44	7 21	26 33	3 2	23 25	0 20	23 4	0 11	23 56	0 23	22 59	0 41	21 36	17 32	7 3	7 32	13 42		n.a.
T 14	5 8	9 25	4 9	1 34	0 36	12 49	7 26	26 33	3 0	23 24	0 20	23 4	0 11	23 56	0 23	22 59	0 41	21 36	17 32	7 1	7 30	13 41		n.a.
W15	4 44	4 56	3 11	2 17	0 43	12 52	7 31	26 34	2 59	23 23	0 20	23 3	0 12	23 56	0 23	22 59	0 41	21 37	17 32	6 59	7 29	13 39		n.a.
T 16	4 21	0 12	2 1	2 59	0 50	12 54	7 36	26 34	2 57	23 22	0 20	23 3	0 12	23 56	0 23	22 59	0 41	21 37	17 32	6 58	7 28	13 38		n.a.
F 17	3 57	4n27	0 44	3 41	0 57	12 55	7 40	26 34	2 56	23 22	0 21	23 3	0 12	23 56	0 23	22 59	0 41	21 37	17 32	6 58	7 27	13 36		n.a.
S 18	3 33	8 45	0s33	4 22	1 3	12 54	7 43	26 33	2 54	23 21	0 21	23 2	0 12	23 56	0 23	22 59	0 41	21 38	17 32	6 58	7 26	13 35		n.a.
S 19	3 10	12 26	1 47	5 4	1 10	12 52	7 46	26 33	2 52	23 20	0 21	23 2	0 12	23 56	0 23	22 59	0 41	21 38	17 32	6 58	7 24	13 33		n.a.
M20	2 46	15 21	2 52	5 44	1 17	12 49	7 48	26 32	2 51	23 20	0 21	23 1	0 12	23 56	0 23	22 59	0 41	21 39	17 32	6 59	7 23	13 32		n.a.
T 21	2 22	17 23	3 47	6 24	1 24	12 44	7 50	26 31	2 49	23 19	0 21	23 1	0 12	23 56	0 23	22 59	0 41	21 39	17 32	6 59	7 22	13 30		n.a.
W22	1 58	18 31	4 29	7 4	1 30	12 37	7 51	26 30	2 48	23 18	0 21	23 1	0 12	23 56	0 23	22 59	0 40	21 40	17 32	7 0	7 21	13 29		n.a.
T 23	1 34	18 44	4 58	7 43	1 37	12 29	7 51	26 29	2 46	23 18	0 22	23 0	0 12	23 55	0 23	22 59	0 40	21 40	17 32	7 0	7 19	13 28		n.a.
F 24	1 10	18 6	5 13	8 21	1 43	12 19	7 51	26 27	2 45	23 17	0 22	23 0	0 13	23 55	0 23	22 59	0 40	21 40	17 32	7 0	7 18	13 26		n.a.
S 25	0 46	16 41	5 14	8 59	1 49	12 7	7 50	26 26	2 43	23 16	0 22	23 0	0 13	23 55	0 23	22 59	0 40	21 41	17 32	6 59	7 17	13 25		n.a.
S 26	0 22	14 33	5 2	9 36	1 55	11 55	7 48	26 24	2 42	23 16	0 22	22 59	0 13	23 55	0 23	22 59	0 40	21 41	17 31	6 58	7 16	13 23		n.a.
M27	0s 2	11 48	4 37	10 12	2 1	11 40	7 45	26 22	2 40	23 15	0 22	22 59	0 13	23 55	0 23	22 59	0 40	21 41	17 31	6 57	7 15	13 22		n.a.
T 28	0 27	8 34	4 0	10 48	2 7	11 24	7 41	26 20	2 38	23 14	0 22	22 59	0 13	23 55	0 23	22 59	0 40	21 42	17 31	6 56	7 13	13 20		n.a.
W29	0 51	4 57	3 12	11 22	2 12	11 7	7 36	26 17	2 37	23 14	0 23	22 58	0 13	23 55	0 23	22 59	0 40	21 42	17 31	6 55	7 12	13 19		n.a.
T 30	1s15	1n 5	2s15	11s56	2s17	10s49	7s31	26s14	2s35	23n13	0n23	22n58	0n13	23n55	0n24	22s59	0n40	21s43	17s31	6s54	7s11	13n17		n.a.

Julian Day Number = 1668339.5, Delta T = 03h21m56s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'24, Lahiri = - 5°57'24 Julian Calendar 1 Sept. 146 BCE == Greg. Calendar 29 Aug. 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

OCTOBER 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 23 30	4♎ 6'26	4♎32	26♎19	9°R14	4♑33	15♋13	16♋ 0	6♋53	26♐25	15°R45	17°R22	18♎ 4	10♌20	n.a.	F 1
S 2	0 27 26	5° 6'37	17° 4	27°33	8♎39	5°13	15°19	16° 4	6°54	26°25	15♓44	17°D22	18° 0	10°27	n.a.	S 2
S 3	0 31 23	6° 6'49	29°49	28°46	8° 3	5°52	15°26	16° 7	6°54	26°26	15°42	17♎22	17°57	10°33	n.a.	S 3
M 4	0 35 19	7° 7'03	12♏47	29°57	7°26	6°32	15°32	16°10	6°55	26°27	15°41	17°23	17°54	10°40	n.a.	M 4
T 5	0 39 16	8° 7'19	25°58	1♏ 6	6°50	7°12	15°38	16°13	6°56	26°27	15°40	17°24	17°51	10°47	n.a.	T 5
W 6	0 43 13	9° 7'36	9♐22	2°12	6°14	7°52	15°44	16°16	6°56	26°28	15°39	17°25	17°48	10°53	n.a.	W 6
T 7	0 47 9	10° 7'56	23° 1	3°16	5°38	8°32	15°50	16°19	6°57	26°29	15°38	17°25	17°44	11° 0	n.a.	T 7
F 8	0 51 6	11° 8'16	6♑53	4°18	5° 3	9°13	15°55	16°21	6°57	26°30	15°37	17°R26	17°41	11° 7	n.a.	F 8
S 9	0 55 2	12° 8'39	20°59	5°16	4°28	9°53	16° 1	16°24	6°58	26°31	15°36	17°25	17°38	11°14	n.a.	S 9
S 10	0 58 59	13° 9'02	5♒17	6°10	3°55	10°33	16° 6	16°26	6°58	26°32	15°35	17°25	17°35	11°20	n.a.	S 10
M11	1 2 55	14° 9'27	19°44	7° 1	3°23	11°14	16°11	16°29	6°59	26°33	15°34	17°25	17°32	11°27	n.a.	M11
T 12	1 6 52	15° 9'54	4♓16	7°48	2°53	11°54	16°16	16°31	6°59	26°34	15°33	17°25	17°29	11°34	n.a.	T 12
W13	1 10 48	16°10'22	18°48	8°29	2°24	12°35	16°21	16°33	6°59	26°35	15°32	17°24	17°25	11°40	n.a.	W13
T 14	1 14 45	17°10'51	3♈14	9° 5	1°57	13°16	16°25	16°35	6°59	26°36	15°31	17°D24	17°22	11°47	n.a.	T 14
F 15	1 18 42	18°11'22	17°29	9°34	1°32	13°57	16°29	16°37	6°59	26°37	15°30	17°R24	17°19	11°54	n.a.	F 15
S 16	1 22 38	19°11'55	1♉28	9°57	1° 9	14°38	16°34	16°39	6°59	26°38	15°29	17°24	17°16	12° 1	n.a.	S 16
S 17	1 26 35	20°12'30	15° 8	10°12	0°49	15°18	16°38	16°41	6°R59	26°39	15°28	17°24	17°13	12° 7	n.a.	S 17
M18	1 30 31	21°13'06	28°26	10°R19	0°31	16° 0	16°42	16°43	6°59	26°40	15°27	17°24	17°10	12°14	n.a.	M18
T 19	1 34 28	22°13'44	11♊22	10°17	0°15	16°41	16°45	16°44	6°59	26°41	15°26	17°23	17° 6	12°21	n.a.	T 19
W20	1 38 24	23°14'24	23°58	10° 5	0° 1	17°22	16°49	16°46	6°59	26°43	15°26	17°23	17° 3	12°27	n.a.	W20
T 21	1 42 21	24°15'06	6♋17	9°43	29♍51	18° 3	16°52	16°47	6°59	26°44	15°25	17°22	17° 0	12°34	n.a.	T 21
F 22	1 46 17	25°15'49	18°22	9°10	29°42	18°44	16°55	16°48	6°59	26°45	15°24	17°21	16°57	12°41	n.a.	F 22
S 23	1 50 14	26°16'34	0♌18	8°27	29°36	19°26	16°58	16°49	6°58	26°46	15°23	17°D21	16°54	12°48	n.a.	S 23
S 24	1 54 11	27°17'21	12°10	7°34	29°33	20° 7	17° 1	16°50	6°58	26°48	15°22	17°22	16°50	12°54	n.a.	S 24
M25	1 58 7	28°18'09	24° 2	6°31	29°D32	20°49	17° 4	16°51	6°58	26°49	15°21	17°23	16°47	13° 1	n.a.	M25
T 26	2 2 4	29°18'59	6♍ 0	5°20	29°34	21°30	17° 6	16°52	6°57	26°51	15°21	17°24	16°44	13° 8	n.a.	T 26
W27	2 6 0	0♏19'51	18° 6	4° 3	29°38	22°12	17° 8	16°53	6°57	26°52	15°20	17°25	16°41	13°14	n.a.	W27
T 28	2 9 57	1°20'44	0♎24	2°42	29°44	22°54	17°10	16°53	6°56	26°53	15°19	17°26	16°38	13°21	n.a.	T 28
F 29	2 13 53	2°21'38	12°58	1°20	29°53	23°35	17°12	16°54	6°55	26°55	15°18	17°R27	16°35	13°28	n.a.	F 29
S 30	2 17 50	3°22'34	25°48	29♎59	0♎ 3	24°17	17°14	16°54	6°55	26°56	15°17	17°27	16°31	13°34	n.a.	S 30
S 31	2 21 46	4♏23'31	8♏55	28♎42	0♎16	24♑59	17♋15	16♋54	6♋54	26♐58	15♓17	17♎26	16♎28	13♌41	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s39	2s54	1s10	12s28	2s22	10s29	7s24	26s12	2s34	23n13	0n23	22n58	0n13	23n55	0n24	22s59	0n40	21s43	17s31	6s54	7s10	13n16		n.a.
S 2	2 3	6 48	0 2	13 0	2 27	10 8	7 17	26 9	2 32	23 12	0 23	22 57	0 13	23 55	0 24	23 0	0 40	21 43	17 31	6 54	7 8	13 14		n.a.
S 3	2 27	10 28	1n 8	13 30	2 31	9 47	7 9	26 5	2 31	23 12	0 23	22 57	0 14	23 55	0 24	23 0	0 40	21 44	17 31	6 54	7 7	13 13		n.a.
M 4	2 51	13 41	2 16	14 0	2 35	9 24	7 0	26 2	2 29	23 11	0 23	22 57	0 14	23 55	0 24	23 0	0 40	21 44	17 31	6 54	7 6	13 11		n.a.
T 5	3 15	16 15	3 18	14 27	2 39	9 0	6 50	25 58	2 28	23 10	0 24	22 57	0 14	23 55	0 24	23 0	0 40	21 44	17 30	6 54	7 5	13 10		n.a.
W 6	3 39	17 59	4 10	14 54	2 42	8 36	6 40	25 54	2 26	23 10	0 24	22 56	0 14	23 55	0 24	23 0	0 40	21 44	17 30	6 55	7 4	13 9		n.a.
T 7	4 3	18 43	4 49	15 19	2 44	8 12	6 29	25 50	2 25	23 9	0 24	22 56	0 14	23 55	0 24	23 0	0 40	21 45	17 30	6 55	7 2	13 7		n.a.
F 8	4 27	18 20	5 12	15 42	2 46	7 46	6 17	25 46	2 23	23 9	0 24	22 56	0 14	23 55	0 24	23 0	0 40	21 45	17 30	6 55	7 1	13 6		n.a.
S 9	4 51	16 50	5 17	16 3	2 48	7 21	6 4	25 41	2 22	23 9	0 24	22 56	0 14	23 55	0 24	23 0	0 40	21 45	17 30	6 55	7 0	13 4		n.a.
S 10	5 15	14 17	5 2	16 22	2 48	6 56	5 51	25 37	2 20	23 8	0 25	22 55	0 14	23 55	0 24	23 0	0 40	21 45	17 30	6 55	6 59	13 3		n.a.
M11	5 39	10 49	4 28	16 39	2 48	6 31	5 38	25 32	2 18	23 8	0 25	22 55	0 15	23 55	0 24	23 0	0 40	21 46	17 29	6 55	6 57	13 1		n.a.
T 12	6 2	6 41	3 37	16 54	2 48	6 6	5 24	25 27	2 17	23 7	0 25	22 55	0 15	23 55	0 24	23 0	0 40	21 46	17 29	6 55	6 56	13 0		n.a.
W13	6 26	2 9	2 32	17 6	2 46	5 41	5 9	25 21	2 15	23 7	0 25	22 55	0 15	23 55	0 24	23 0	0 40	21 46	17 29	6 55	6 55	12 58		n.a.
T 14	6 49	2n29	1 18	17 15	2 43	5 17	4 55	25 16	2 14	23 6	0 25	22 55	0 15	23 55	0 24	23 0	0 40	21 46	17 29	6 55	6 54	12 57		n.a.
F 15	7 13	6 56	0s 0	17 22	2 40	4 53	4 40	25 10	2 12	23 6	0 26	22 55	0 15	23 55	0 24	23 0	0 40	21 47	17 29	6 55	6 52	12 55		n.a.
S 16	7 36	10 55	1 17	17 24	2 35	4 30	4 25	25 4	2 11	23 6	0 26	22 55	0 15	23 55	0 24	23 0	0 40	21 47	17 28	6 54	6 51	12 54		n.a.
S 17	7 59	14 12	2 28	17 23	2 28	4 8	4 10	24 58	2 9	23 5	0 26	22 55	0 15	23 55	0 24	23 0	0 40	21 47	17 28	6 54	6 50	12 52		n.a.
M18	8 22	16 39	3 29	17 18	2 21	3 47	3 55	24 51	2 8	23 5	0 26	22 54	0 15	23 55	0 24	23 0	0 40	21 47	17 28	6 54	6 49	12 51		n.a.
T 19	8 45	18 9	4 17	17 9	2 12	3 27	3 40	24 45	2 6	23 5	0 26	22 54	0 16	23 55	0 24	23 1	0 40	21 47	17 28	6 54	6 48	12 49		n.a.
W20	9 8	18 43	4 51	16 55	2 1	3 8	3 24	24 38	2 5	23 5	0 27	22 54	0 16	23 56	0 24	23 1	0 40	21 47	17 28	6 54	6 46	12 48		n.a.
T 21	9 30	18 23	5 11	16 36	1 48	2 50	3 9	24 31	2 3	23 4	0 27	22 54	0 16	23 56	0 24	23 1	0 40	21 48	17 27	6 54	6 45	12 46		n.a.
F 22	9 53	17 12	5 17	16 12	1 34	2 33	2 54	24 24	2 2	23 4	0 27	22 54	0 16	23 56	0 24	23 1	0 39	21 48	17 27	6 53	6 44	12 45		n.a.
S 23	10 15	15 17	5 9	15 43	1 19	2 17	2 40	24 16	2 0	23 4	0 27	22 54	0 16	23 56	0 24	23 1	0 39	21 48	17 27	6 53	6 43	12 43		n.a.
S 24	10 37	12 44	4 48	15 9	1 1	2 2	2 25	24 9	1 59	23 4	0 27	22 54	0 16	23 56	0 24	23 1	0 39	21 48	17 27	6 54	6 41	12 42		n.a.
M25	10 59	9 39	4 15	14 31	0 43	1 49	2 11	24 1	1 57	23 4	0 28	22 54	0 16	23 56	0 24	23 1	0 39	21 48	17 26	6 54	6 40	12 40		n.a.
T 26	11 21	6 10	3 30	13 48	0 23	1 36	1 57	23 53	1 56	23 4	0 28	22 54	0 17	23 56	0 24	23 1	0 39	21 48	17 26	6 54	6 39	12 39		n.a.
W27	11 43	2 23	2 35	13 3	0 3	1 25	1 43	23 44	1 55	23 4	0 28	22 54	0 17	23 56	0 24	23 1	0 39	21 48	17 26	6 55	6 38	12 37		n.a.
T 28	12 4	1s35	1 33	12 16	0n18	1 15	1 29	23 36	1 53	23 4	0 28	22 54	0 17	23 56	0 24	23 1	0 39	21 48	17 25	6 55	6 36	12 36		n.a.
F 29	12 26	5 33	0 25	11 28	0 39	1 7	1 16	23 27	1 52	23 4	0 28	22 55	0 17	23 56	0 24	23 1	0 39	21 48	17 25	6 55	6 35	12 34		n.a.
S 30	12 47	9 22	0n46	10 41	0 58	0 59	1 3	23 19	1 50	23 4	0 29	22 55	0 17	23 56	0 24	23 1	0 39	21 48	17 25	6 55	6 34	12 33		n.a.
S 31	13s 8	12s48	1n56	9s56	1n17	0s53	0s51	23s 9	1s49	23n 4	0n29	22n55	0n17	23n56	0n24	23s 1	0n39	21s48	17s25	6s55	6s33	12n31		n.a.

Julian Day Number = 1668369.5, Delta T = 03h21m55s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'20, Lahiri = - 5°57'20 Julian Calendar 1 Oct. 146 BCE == Greg. Calendar 28 Sept. 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

NOVEMBER 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 25 43	5♏24'30	22♏18	27°R32	0♎32	25♑41	17♋17	16°R54	6°R53	26♐59	15°R16	17°R24	16♎25	13♌48	n.a.	M 1
T 2	2 29 39	6°25'29	5♐56	26♎31	0°49	26°23	17°18	16♋54	6♋52	27° 1	15♓15	17♎21	16°22	13°55	n.a.	T 2
W 3	2 33 36	7°26'30	19°45	25°40	1° 8	27° 5	17°18	16°54	6°51	27° 3	15°15	17°18	16°19	14° 1	n.a.	W 3
T 4	2 37 33	8°27'31	3♑44	25° 0	1°29	27°47	17°19	16°54	6°50	27° 4	15°14	17°15	16°15	14° 8	n.a.	T 4
F 5	2 41 29	9°28'33	17°49	24°31	1°52	28°29	17°20	16°53	6°49	27° 6	15°13	17°13	16°12	14°15	n.a.	F 5
S 6	2 45 26	10°29'36	1♒58	24°14	2°17	29°11	17°20	16°53	6°48	27° 8	15°13	17°12	16° 9	14°21	n.a.	S 6
S 7	2 49 22	11°30'39	16° 8	24°D 7	2°44	29°53	17°R20	16°52	6°47	27° 9	15°12	17°D12	16° 6	14°28	n.a.	S 7
M 8	2 53 19	12°31'43	0♓18	24°12	3°12	0♒35	17°20	16°52	6°46	27°11	15°12	17°12	16° 3	14°35	n.a.	M 8
T 9	2 57 15	13°32'48	14°25	24°26	3°42	1°17	17°20	16°51	6°45	27°13	15°11	17°14	16° 0	14°42	n.a.	T 9
W10	3 1 12	14°33'53	28°28	24°49	4°14	1°59	17°19	16°50	6°44	27°15	15°11	17°15	15°56	14°48	n.a.	W10
T 11	3 5 8	15°34'59	12♈25	25°20	4°47	2°42	17°18	16°49	6°42	27°16	15°10	17°R16	15°53	14°55	n.a.	T 11
F 12	3 9 5	16°36'06	26°13	25°58	5°21	3°24	17°17	16°48	6°41	27°18	15°10	17°16	15°50	15° 2	n.a.	F 12
S 13	3 13 2	17°37'13	9♉49	26°43	5°57	4° 6	17°16	16°46	6°39	27°20	15° 9	17°14	15°47	15° 8	n.a.	S 13
S 14	3 16 58	18°38'21	23°12	27°33	6°35	4°48	17°15	16°45	6°38	27°22	15° 9	17°11	15°44	15°15	n.a.	S 14
M15	3 20 55	19°39'29	6♊19	28°28	7°13	5°31	17°13	16°44	6°37	27°24	15° 8	17° 6	15°41	15°22	n.a.	M15
T 16	3 24 51	20°40'39	19°10	29°28	7°53	6°13	17°12	16°42	6°35	27°26	15° 8	17° 0	15°37	15°28	n.a.	T 16
W17	3 28 48	21°41'49	1♋44	0♏32	8°34	6°55	17°10	16°40	6°33	27°28	15° 8	16°54	15°34	15°35	n.a.	W17
T 18	3 32 44	22°43'00	14° 3	1°38	9°16	7°38	17° 8	16°39	6°32	27°30	15° 7	16°48	15°31	15°42	n.a.	T 18
F 19	3 36 41	23°44'11	26° 9	2°48	10° 0	8°20	17° 6	16°37	6°30	27°32	15° 7	16°43	15°28	15°49	n.a.	F 19
S 20	3 40 38	24°45'24	8♌ 5	4° 1	10°44	9° 3	17° 3	16°35	6°28	27°33	15° 7	16°40	15°25	15°55	n.a.	S 20
S 21	3 44 34	25°46'37	19°57	5°15	11°30	9°45	17° 0	16°33	6°27	27°35	15° 6	16°38	15°21	16° 2	n.a.	S 21
M22	3 48 31	26°47'50	1♍48	6°32	12°16	10°27	16°58	16°30	6°25	27°37	15° 6	16°D38	15°18	16° 9	n.a.	M22
T 23	3 52 27	27°49'05	13°44	7°50	13° 4	11°10	16°55	16°28	6°23	27°40	15° 6	16°39	15°15	16°15	n.a.	T 23
W24	3 56 24	28°50'20	25°50	9°10	13°52	11°52	16°51	16°26	6°21	27°42	15° 6	16°41	15°12	16°22	n.a.	W24
T 25	4 0 20	29°51'35	8♎11	10°31	14°41	12°35	16°48	16°23	6°19	27°44	15° 5	16°42	15° 9	16°29	n.a.	T 25
F 26	4 4 17	0♐52'51	20°50	11°54	15°31	13°17	16°44	16°21	6°17	27°46	15° 5	16°R42	15° 6	16°36	n.a.	F 26
S 27	4 8 13	1°54'07	3♏51	13°17	16°22	14° 0	16°40	16°18	6°15	27°48	15° 5	16°41	15° 2	16°42	n.a.	S 27
S 28	4 12 10	2°55'24	17°16	14°41	17°14	14°42	16°36	16°15	6°13	27°50	15° 5	16°37	14°59	16°49	n.a.	S 28
M29	4 16 7	3°56'41	1♐ 2	16° 7	18° 6	15°25	16°32	16°12	6°11	27°52	15° 5	16°31	14°56	16°56	n.a.	M29
T 30	4 20 3	4♐57'58	15♐ 8	17♏33	19♎ 0	16♒ 7	16♋28	16♋ 9	6♋ 9	27♐54	15♓ 5	16♎24	14♎53	17♌ 2	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s28	15s38	3n 1	9s15	1n34	0s48	0s39	23s 0	1s47	23n 4	0n29	22n55	0n17	23n56	0n24	23s 1	0n39	21s48	17s24	6s54	6s32	12n30		n.a.
T 2	13 49	17 39	3 57	8 39	1 49	0 44	0 27	22 51	1 46	23 4	0 29	22 55	0 17	23 56	0 25	23 1	0 39	21 48	17 24	6 53	6 30	12 28		n.a.
W 3	14 9	18 40	4 39	8 8	2 2	0 42	0 15	22 41	1 44	23 4	0 29	22 55	0 18	23 56	0 25	23 1	0 39	21 48	17 24	6 52	6 29	12 27		n.a.
T 4	14 29	18 33	5 6	7 43	2 13	0 40	0 4	22 31	1 43	23 4	0 30	22 55	0 18	23 56	0 25	23 2	0 39	21 48	17 23	6 51	6 28	12 25		n.a.
F 5	14 49	17 19	5 15	7 24	2 22	0 39	0n 6	22 21	1 42	23 4	0 30	22 55	0 18	23 56	0 25	23 2	0 39	21 48	17 23	6 50	6 27	12 24		n.a.
S 6	15 8	15 0	5 4	7 11	2 29	0 40	0 17	22 11	1 40	23 4	0 30	22 56	0 18	23 57	0 25	23 2	0 39	21 48	17 23	6 50	6 25	12 22		n.a.
S 7	15 27	11 48	4 36	7 4	2 34	0 41	0 27	22 1	1 39	23 4	0 30	22 56	0 18	23 57	0 25	23 2	0 39	21 48	17 23	6 50	6 24	12 21		n.a.
M 8	15 46	7 54	3 50	7 3	2 37	0 44	0 37	21 50	1 37	23 5	0 31	22 56	0 18	23 57	0 25	23 2	0 39	21 48	17 22	6 50	6 23	12 19		n.a.
T 9	16 5	3 35	2 51	7 6	2 39	0 47	0 46	21 39	1 36	23 5	0 31	22 56	0 18	23 57	0 25	23 2	0 39	21 48	17 22	6 50	6 22	12 17		n.a.
W10	16 23	0n56	1 41	7 15	2 40	0 52	0 55	21 29	1 35	23 5	0 31	22 57	0 19	23 57	0 25	23 2	0 39	21 48	17 22	6 51	6 20	12 16		n.a.
T 11	16 41	5 22	0 27	7 27	2 39	0 57	1 4	21 17	1 33	23 5	0 31	22 57	0 19	23 57	0 25	23 2	0 39	21 48	17 21	6 51	6 19	12 14		n.a.
F 12	16 59	9 28	0s49	7 42	2 37	1 3	1 12	21 6	1 32	23 6	0 31	22 57	0 19	23 57	0 25	23 2	0 39	21 48	17 21	6 51	6 18	12 13		n.a.
S 13	17 17	13 1	2 0	8 1	2 34	1 10	1 20	20 55	1 30	23 6	0 32	22 57	0 19	23 57	0 25	23 2	0 39	21 48	17 21	6 51	6 17	12 11		n.a.
S 14	17 34	15 49	3 4	8 23	2 30	1 18	1 28	20 43	1 29	23 7	0 32	22 58	0 19	23 57	0 25	23 2	0 39	21 48	17 20	6 49	6 15	12 10		n.a.
M15	17 51	17 44	3 56	8 47	2 26	1 26	1 35	20 31	1 28	23 7	0 32	22 58	0 19	23 57	0 25	23 2	0 39	21 47	17 20	6 47	6 14	12 8		n.a.
T 16	18 7	18 41	4 35	9 13	2 21	1 36	1 42	20 19	1 26	23 7	0 32	22 58	0 19	23 58	0 25	23 2	0 39	21 47	17 20	6 45	6 13	12 7		n.a.
W17	18 24	18 42	5 0	9 40	2 15	1 46	1 49	20 7	1 25	23 8	0 32	22 59	0 19	23 58	0 25	23 2	0 39	21 47	17 19	6 43	6 12	12 5		n.a.
T 18	18 40	17 49	5 11	10 9	2 10	1 57	1 56	19 55	1 24	23 8	0 33	22 59	0 20	23 58	0 25	23 2	0 39	21 47	17 19	6 40	6 11	12 4		n.a.
F 19	18 55	16 8	5 7	10 39	2 3	2 8	2 2	19 43	1 22	23 9	0 33	22 59	0 20	23 58	0 25	23 2	0 39	21 47	17 19	6 39	6 9	12 2		n.a.
S 20	19 10	13 47	4 50	11 10	1 57	2 21	2 8	19 30	1 21	23 9	0 33	23 0	0 20	23 58	0 25	23 3	0 39	21 47	17 18	6 37	6 8	12 1		n.a.
S 21	19 25	10 53	4 20	11 42	1 50	2 33	2 13	19 17	1 20	23 10	0 33	23 0	0 20	23 58	0 25	23 3	0 39	21 46	17 18	6 37	6 7	11 59		n.a.
M22	19 40	7 32	3 40	12 14	1 43	2 47	2 19	19 4	1 18	23 11	0 34	23 1	0 20	23 58	0 25	23 3	0 39	21 46	17 17	6 37	6 6	11 57		n.a.
T 23	19 54	3 52	2 49	12 46	1 36	3 1	2 24	18 51	1 17	23 11	0 34	23 1	0 20	23 58	0 25	23 3	0 39	21 46	17 17	6 37	6 4	11 56		n.a.
W24	20 8	0s 1	1 51	13 19	1 28	3 15	2 29	18 38	1 16	23 12	0 34	23 1	0 20	23 58	0 25	23 3	0 39	21 46	17 17	6 38	6 3	11 54		n.a.
T 25	20 21	3 59	0 46	13 52	1 21	3 30	2 33	18 25	1 15	23 12	0 34	23 2	0 21	23 59	0 25	23 3	0 39	21 45	17 16	6 38	6 2	11 53		n.a.
F 26	20 34	7 53	0n22	14 25	1 14	3 46	2 37	18 11	1 13	23 13	0 34	23 2	0 21	23 59	0 25	23 3	0 39	21 45	17 16	6 38	6 1	11 51		n.a.
S 27	20 47	11 31	1 31	14 57	1 6	4 2	2 41	17 58	1 12	23 14	0 35	23 3	0 21	23 59	0 25	23 3	0 39	21 45	17 16	6 38	5 59	11 50		n.a.
S 28	20 59	14 40	2 37	15 30	0 58	4 18	2 45	17 44	1 11	23 14	0 35	23 3	0 21	23 59	0 25	23 3	0 39	21 45	17 15	6 36	5 58	11 48		n.a.
M29	21 11	17 5	3 36	16 2	0 51	4 35	2 49	17 30	1 9	23 15	0 35	23 4	0 21	23 59	0 25	23 3	0 39	21 44	17 15	6 34	5 57	11 47		n.a.
T 30	21s22	18s31	4n23	16s34	0n43	4s52	2n52	17s16	1s 8	23n16	0n35	23n 4	0n21	23n59	0n25	23s 3	0n38	21s44	17s15	6s31	5s56	11n45		n.a.

Julian Day Number = 1668400.5, Delta T = 03h21m54s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'16, Lahiri = - 5°57'15 Julian Calendar 1 Nov. 146 BCE == Greg. Calendar 29 Oct. 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 146 BCE
geocentric

DECEMBER 146 BCE (-145) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 24 0	5♐59'15	29♐27	18♏59	19♎53	16♒50	16°R24	16°R 6	6°R 7	27♐56	15°R 5	16°R15	14♎50	17♌ 9	n.a.	W 1
T 2	4 27 56	7° 0'32	13♑55	20°27	20°48	17°32	16♋19	16♋ 3	6♋ 5	27°58	15♓ 5	16♎ 7	14°47	17°16	n.a.	T 2
F 3	4 31 53	8° 1'49	28°25	21°54	21°43	18°15	16°14	16° 0	6° 3	28° 1	15°D 5	16° 0	14°43	17°22	n.a.	F 3
S 4	4 35 49	9° 3'06	12♒51	23°23	22°39	18°57	16° 9	15°56	6° 0	28° 3	15° 5	15°54	14°40	17°29	n.a.	S 4
S 5	4 39 46	10° 4'22	27° 8	24°52	23°35	19°40	16° 4	15°53	5°58	28° 5	15° 5	15°51	14°37	17°36	n.a.	S 5
M 6	4 43 42	11° 5'37	11♓15	26°21	24°32	20°22	15°58	15°49	5°56	28° 7	15° 5	15°D51	14°34	17°43	n.a.	M 6
T 7	4 47 39	12° 6'52	25°11	27°51	25°29	21° 5	15°53	15°46	5°54	28° 9	15° 5	15°51	14°31	17°49	n.a.	T 7
W 8	4 51 36	13° 8'07	8♈54	29°21	26°27	21°47	15°47	15°42	5°51	28°11	15° 5	15°R52	14°27	17°56	n.a.	W 8
T 9	4 55 32	14° 9'20	22°26	0♐52	27°26	22°30	15°42	15°38	5°49	28°14	15° 5	15°52	14°24	18° 3	n.a.	T 9
F 10	4 59 29	15°10'34	5♉48	2°23	28°24	23°12	15°36	15°35	5°47	28°16	15° 5	15°50	14°21	18° 9	n.a.	F 10
S 11	5 3 25	16°11'47	18°59	3°55	29°24	23°55	15°30	15°31	5°44	28°18	15° 5	15°46	14°18	18°16	n.a.	S 11
S 12	5 7 22	17°12'59	1♊59	5°27	0♏24	24°37	15°23	15°27	5°42	28°20	15° 6	15°38	14°15	18°23	n.a.	S 12
M13	5 11 18	18°14'11	14°48	7° 0	1°24	25°20	15°17	15°23	5°39	28°23	15° 6	15°28	14°12	18°29	n.a.	M13
T 14	5 15 15	19°15'23	27°25	8°33	2°25	26° 2	15°11	15°19	5°37	28°25	15° 6	15°17	14° 8	18°36	n.a.	T 14
W15	5 19 11	20°16'34	9♋50	10° 6	3°26	26°44	15° 4	15°14	5°34	28°27	15° 6	15° 4	14° 5	18°43	n.a.	W15
T 16	5 23 8	21°17'44	22° 3	11°40	4°27	27°27	14°57	15°10	5°32	28°29	15° 7	14°52	14° 2	18°50	n.a.	T 16
F 17	5 27 5	22°18'54	4♌ 7	13°15	5°29	28° 9	14°51	15° 6	5°29	28°32	15° 7	14°41	13°59	18°56	n.a.	F 17
S 18	5 31 1	23°20'04	16° 1	14°50	6°32	28°52	14°44	15° 2	5°27	28°34	15° 7	14°32	13°56	19° 3	n.a.	S 18
S 19	5 34 58	24°21'13	27°52	16°25	7°34	29°34	14°37	14°57	5°24	28°36	15° 8	14°26	13°53	19°10	n.a.	S 19
M20	5 38 54	25°22'22	9♍41	18° 1	8°37	0♓16	14°29	14°53	5°22	28°38	15° 8	14°22	13°49	19°16	n.a.	M20
T 21	5 42 51	26°23'30	21°34	19°38	9°40	0°59	14°22	14°48	5°19	28°41	15° 8	14°21	13°46	19°23	n.a.	T 21
W22	5 46 47	27°24'38	3♎37	21°15	10°44	1°41	14°15	14°44	5°17	28°43	15° 9	14°D21	13°43	19°30	n.a.	W22
T 23	5 50 44	28°25'45	15°55	22°52	11°48	2°23	14° 8	14°39	5°14	28°45	15° 9	14°R21	13°40	19°36	n.a.	T 23
F 24	5 54 41	29°26'51	28°33	24°31	12°52	3° 6	14° 0	14°35	5°11	28°48	15°10	14°20	13°37	19°43	n.a.	F 24
S 25	5 58 37	0♑27'57	11♏35	26° 9	13°57	3°48	13°52	14°30	5° 9	28°50	15°10	14°18	13°33	19°50	n.a.	S 25
S 26	6 2 34	1°29'03	25° 5	27°49	15° 2	4°30	13°45	14°25	5° 6	28°52	15°11	14°12	13°30	19°57	n.a.	S 26
M27	6 6 30	2°30'07	9♐ 3	29°29	16° 7	5°13	13°37	14°21	5° 4	28°54	15°11	14° 4	13°27	20° 3	n.a.	M27
T 28	6 10 27	3°31'11	23°26	1♑10	17°12	5°55	13°29	14°16	5° 1	28°57	15°12	13°53	13°24	20°10	n.a.	T 28
W29	6 14 23	4°32'14	8♑10	2°51	18°17	6°37	13°22	14°11	4°58	28°59	15°12	13°41	13°21	20°17	n.a.	W29
T 30	6 18 20	5°33'16	23° 5	4°33	19°23	7°19	13°14	14° 6	4°56	29° 1	15°13	13°30	13°18	20°23	n.a.	T 30
F 31	6 22 16	6♑34'16	8♒ 2	6♑16	20♏29	8♓ 2	13♋ 6	14♋ 1	4♋53	29♐ 3	15♓14	13♎19	13♎14	20♌30	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	21s33	18s49	4n54	17s 5	0n36	5s10	2n55	17s 2	1s 7	23n17	0n36	23n 5	0n21	23n59	0n25	23s 3	0n38	21s44	17s14	6s28	5s54	11n43			n.a.
T 2	21 44	17 54	5 6	17 36	0 28	5 28	2 58	16 48	1 6	23 18	0 36	23 5	0 21	23 59	0 25	23 3	0 38	21 43	17 14	6 24	5 53	11 42			n.a.
F 3	21 54	15 49	4 59	18 7	0 21	5 46	3 1	16 33	1 4	23 18	0 36	23 6	0 22	23 59	0 25	23 3	0 38	21 43	17 14	6 22	5 52	11 40			n.a.
S 4	22 3	12 46	4 34	18 37	0 14	6 5	3 3	16 19	1 3	23 19	0 36	23 6	0 22	24 0	0 25	23 3	0 38	21 43	17 13	6 20	5 51	11 39			n.a.
S 5	22 13	8 59	3 51	19 6	0 6	6 23	3 5	16 4	1 2	23 20	0 36	23 7	0 22	24 0	0 25	23 3	0 38	21 42	17 13	6 18	5 49	11 37			n.a.
M 6	22 22	4 44	2 55	19 34	0s 1	6 43	3 7	15 49	1 1	23 21	0 37	23 7	0 22	24 0	0 25	23 3	0 38	21 42	17 12	6 18	5 48	11 36			n.a.
T 7	22 30	0 17	1 49	20 2	0 8	7 2	3 9	15 34	1 0	23 22	0 37	23 8	0 22	24 0	0 25	23 3	0 38	21 42	17 12	6 18	5 47	11 34			n.a.
W 8	22 38	4n 8	0 37	20 29	0 15	7 21	3 11	15 19	0 58	23 23	0 37	23 9	0 22	24 0	0 25	23 4	0 38	21 41	17 12	6 19	5 46	11 33			n.a.
T 9	22 45	8 17	0s35	20 55	0 22	7 41	3 12	15 4	0 57	23 23	0 37	23 9	0 22	24 0	0 25	23 4	0 38	21 41	17 11	6 19	5 44	11 31			n.a.
F 10	22 53	11 58	1 44	21 20	0 28	8 1	3 13	14 49	0 56	23 24	0 37	23 10	0 23	24 0	0 25	23 4	0 38	21 40	17 11	6 18	5 43	11 29			n.a.
S 11	22 59	14 59	2 47	21 45	0 35	8 21	3 14	14 34	0 55	23 25	0 38	23 10	0 23	24 0	0 25	23 4	0 38	21 40	17 11	6 16	5 42	11 28			n.a.
S 12	23 5	17 12	3 40	22 8	0 41	8 42	3 15	14 18	0 54	23 26	0 38	23 11	0 23	24 1	0 25	23 4	0 38	21 40	17 10	6 13	5 41	11 26			n.a.
M13	23 11	18 31	4 21	22 30	0 48	9 2	3 16	14 3	0 52	23 27	0 38	23 11	0 23	24 1	0 25	23 4	0 38	21 39	17 10	6 9	5 39	11 25			n.a.
T 14	23 16	18 53	4 48	22 52	0 54	9 22	3 17	13 47	0 51	23 28	0 38	23 12	0 23	24 1	0 26	23 4	0 38	21 39	17 9	6 5	5 38	11 23			n.a.
W15	23 21	18 20	5 1	23 12	1 0	9 43	3 17	13 31	0 50	23 29	0 38	23 13	0 23	24 1	0 26	23 4	0 38	21 38	17 9	6 0	5 37	11 21			n.a.
T 16	23 25	16 57	5 0	23 31	1 5	10 4	3 17	13 16	0 49	23 30	0 39	23 13	0 23	24 1	0 26	23 4	0 38	21 38	17 9	5 55	5 36	11 20			n.a.
F 17	23 29	14 49	4 45	23 49	1 11	10 24	3 17	13 0	0 48	23 31	0 39	23 14	0 23	24 1	0 26	23 4	0 38	21 37	17 8	5 51	5 35	11 18			n.a.
S 18	23 32	12 6	4 19	24 6	1 16	10 45	3 17	12 44	0 47	23 32	0 39	23 15	0 24	24 1	0 26	23 4	0 38	21 37	17 8	5 47	5 33	11 17			n.a.
S 19	23 35	8 54	3 41	24 21	1 21	11 6	3 17	12 28	0 46	23 33	0 39	23 15	0 24	24 1	0 26	23 4	0 38	21 36	17 8	5 45	5 32	11 15			n.a.
M20	23 38	5 21	2 53	24 35	1 26	11 26	3 16	12 12	0 44	23 34	0 39	23 16	0 24	24 2	0 26	23 4	0 38	21 36	17 7	5 44	5 31	11 14			n.a.
T 21	23 40	1 35	1 58	24 48	1 30	11 47	3 16	11 55	0 43	23 35	0 39	23 16	0 24	24 2	0 26	23 4	0 38	21 36	17 7	5 43	5 30	11 12			n.a.
W22	23 41	2s19	0 57	25 0	1 35	12 8	3 15	11 39	0 42	23 36	0 40	23 17	0 24	24 2	0 26	23 4	0 38	21 35	17 7	5 43	5 28	11 10			n.a.
T 23	23 42	6 12	0n 8	25 10	1 39	12 28	3 14	11 23	0 41	23 37	0 40	23 18	0 24	24 2	0 26	23 4	0 38	21 35	17 6	5 43	5 27	11 9			n.a.
F 24	23 43	9 55	1 15	25 18	1 43	12 49	3 13	11 6	0 40	23 38	0 40	23 18	0 24	24 2	0 26	23 4	0 38	21 34	17 6	5 43	5 26	11 7			n.a.
S 25	23 43	13 17	2 19	25 25	1 46	13 9	3 12	10 50	0 39	23 39	0 40	23 19	0 24	24 2	0 26	23 4	0 38	21 33	17 5	5 42	5 25	11 6			n.a.
S 26	23 42	16 3	3 18	25 31	1 49	13 29	3 11	10 33	0 38	23 40	0 40	23 20	0 25	24 2	0 26	23 4	0 38	21 33	17 5	5 40	5 23	11 4			n.a.
M27	23 41	17 59	4 7	25 35	1 52	13 49	3 9	10 17	0 37	23 41	0 41	23 20	0 25	24 2	0 26	23 4	0 38	21 32	17 5	5 36	5 22	11 2			n.a.
T 28	23 40	18 51	4 42	25 37	1 55	14 9	3 8	10 0	0 36	23 42	0 41	23 21	0 25	24 2	0 26	23 4	0 38	21 32	17 4	5 32	5 21	11 1			n.a.
W29	23 38	18 29	4 59	25 37	1 57	14 29	3 6	9 43	0 35	23 42	0 41	23 21	0 25	24 3	0 26	23 4	0 38	21 31	17 4	5 28	5 20	10 59			n.a.
T 30	23 36	16 50	4 56	25 36	1 59	14 49	3 4	9 26	0 34	23 43	0 41	23 22	0 25	24 3	0 26	23 4	0 38	21 31	17 4	5 23	5 18	10 58			n.a.
F 31	23s33	14s 4	4n33	25s34	2s 0	15s 8	3n 3	9s 9	0s33	23n44	0n41	23n23	0n25	24n 3	0n26	23s 4	0n38	21s30	17s 3	5s19	5s17	10n56			n.a.

Julian Day Number = 1668430.5, Delta T = 03h21m53s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'12, Lahiri = - 5°57'11 Julian Calendar 1 Dec. 146 BCE == Greg. Calendar 28 Nov. 146 BCE

The year -145 astronomical counting style corresponds to year 146 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

JANUARY 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 26 13	7♉35'16	22♒53	7♉59	21♏35	8♓44	12°R58	13°R57	4°R50	29♐ 6	15♓14	13°R11	13♎11	20♌37	n.a.	S 1
S 2	6 30 10	8°36'13	7♓30	9°43	22°42	9°26	12♋50	13♋52	4♋48	29° 8	15°15	13♎ 6	13° 8	20°43	n.a.	S 2
M 3	6 34 6	9°37'09	21°48	11°28	23°48	10° 8	12°42	13°47	4°45	29°10	15°16	13° 3	13° 5	20°50	n.a.	M 3
T 4	6 38 3	10°38'04	5♈47	13°13	24°55	10°50	12°34	13°42	4°43	29°13	15°16	13° 2	13° 2	20°57	n.a.	T 4
W 5	6 41 59	11°38'57	19°25	14°59	26° 2	11°32	12°26	13°37	4°40	29°15	15°17	13° 2	12°59	21° 4	n.a.	W 5
T 6	6 45 56	12°39'49	2♉46	16°45	27° 9	12°15	12°18	13°32	4°37	29°17	15°18	13° 2	12°55	21°10	n.a.	T 6
F 7	6 49 52	13°40'39	15°51	18°32	28°16	12°57	12°10	13°27	4°35	29°19	15°19	12°59	12°52	21°17	n.a.	F 7
S 8	6 53 49	14°41'27	28°43	20°20	29°24	13°39	12° 2	13°22	4°32	29°21	15°19	12°53	12°49	21°24	n.a.	S 8
S 9	6 57 45	15°42'14	11♊24	22° 8	0♐32	14°21	11°54	13°17	4°30	29°24	15°20	12°45	12°46	21°30	n.a.	S 9
M10	7 1 42	16°42'59	23°54	23°56	1°39	15° 3	11°46	13°13	4°27	29°26	15°21	12°33	12°43	21°37	n.a.	M10
T 11	7 5 39	17°43'43	6♋15	25°45	2°47	15°45	11°38	13° 8	4°25	29°28	15°22	12°19	12°39	21°44	n.a.	T 11
W12	7 9 35	18°44'25	18°27	27°34	3°56	16°27	11°30	13° 3	4°22	29°30	15°23	12° 5	12°36	21°50	n.a.	W12
T 13	7 13 32	19°45'06	0♌32	29°23	5° 4	17° 8	11°23	12°58	4°20	29°32	15°24	11°50	12°33	21°57	n.a.	T 13
F 14	7 17 28	20°45'45	12°30	1♒11	6°12	17°50	11°15	12°53	4°17	29°35	15°25	11°38	12°30	22° 4	n.a.	F 14
S 15	7 21 25	21°46'22	24°22	2°59	7°21	18°32	11° 7	12°48	4°15	29°37	15°25	11°27	12°27	22°10	n.a.	S 15
S 16	7 25 21	22°46'58	6♍11	4°47	8°29	19°14	10°59	12°44	4°12	29°39	15°26	11°19	12°24	22°17	n.a.	S 16
M17	7 29 18	23°47'33	17°59	6°34	9°38	19°56	10°52	12°39	4°10	29°41	15°27	11°14	12°20	22°24	n.a.	M17
T 18	7 33 14	24°48'06	29°52	8°19	10°47	20°38	10°44	12°34	4° 7	29°43	15°28	11°12	12°17	22°31	n.a.	T 18
W19	7 37 11	25°48'38	11♎53	10° 3	11°56	21°19	10°37	12°29	4° 5	29°45	15°29	11°D11	12°14	22°37	n.a.	W19
T 20	7 41 8	26°49'09	24° 7	11°45	13° 6	22° 1	10°29	12°25	4° 3	29°47	15°30	11°R12	12°11	22°44	n.a.	T 20
F 21	7 45 4	27°49'38	6♏41	13°24	14°15	22°43	10°22	12°20	4° 0	29°49	15°31	11°11	12° 8	22°51	n.a.	F 21
S 22	7 49 1	28°50'05	19°38	15° 0	15°24	23°24	10°15	12°15	3°58	29°51	15°32	11°10	12° 4	22°57	n.a.	S 22
S 23	7 52 57	29°50'32	3♐ 3	16°32	16°34	24° 6	10° 7	12°11	3°56	29°53	15°33	11° 5	12° 1	23° 4	n.a.	S 23
M24	7 56 54	0♒50'56	16°59	18° 0	17°43	24°48	10° 0	12° 6	3°54	29°55	15°34	10°59	11°58	23°11	n.a.	M24
T 25	8 0 50	1°51'19	1♉24	19°24	18°53	25°29	9°53	12° 2	3°51	29°57	15°36	10°50	11°55	23°17	n.a.	T 25
W26	8 4 47	2°51'41	16°14	20°42	20° 3	26°11	9°46	11°57	3°49	29°59	15°37	10°40	11°52	23°24	n.a.	W26
T 27	8 8 43	3°52'01	1♒21	21°53	21°13	26°52	9°40	11°53	3°47	0♉ 1	15°38	10°29	11°49	23°31	n.a.	T 27
F 28	8 12 40	4°52'18	16°36	22°58	22°23	27°34	9°33	11°49	3°45	0° 3	15°39	10°20	11°45	23°37	n.a.	F 28
S 29	8 16 37	5°52'34	1♓47	23°56	23°33	28°16	9°27	11°45	3°43	0° 5	15°40	10°12	11°42	23°44	n.a.	S 29
S 30	8 20 33	6°52'48	16°45	24°46	24°43	28°57	9°20	11°40	3°41	0° 7	15°41	10° 8	11°39	23°51	n.a.	S 30
M31	8 24 30	7♒53'00	1♈21	25♒27	25♐53	29♓38	9♋14	11♋36	3♋39	0♉ 9	15♓42	10♎ 6	11♎36	23♌58	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s29	10s23	3n52	25s29	2s 1	15s27	3n 1	8s53	0s32	23n45	0n41	23n23	0n25	24n 3	0n26	23s 4	0n38	21s30	17s 3	5s16	5s16	10n54		n.a.
S 2	23 26	6 8	2 56	25 22	2 2	15 46	2 59	8 36	0 31	23 46	0 41	23 24	0 25	24 3	0 26	23 4	0 38	21 29	17 3	5 14	5 15	10 53		n.a.
M 3	23 21	1 37	1 50	25 14	2 2	16 5	2 57	8 19	0 30	23 47	0 42	23 25	0 25	24 3	0 26	23 4	0 38	21 29	17 2	5 13	5 13	10 51		n.a.
T 4	23 17	2n54	0 38	25 4	2 2	16 24	2 54	8 1	0 29	23 48	0 42	23 25	0 26	24 3	0 26	23 4	0 38	21 28	17 2	5 12	5 12	10 50		n.a.
W 5	23 12	7 10	0s34	24 52	2 1	16 42	2 52	7 44	0 28	23 49	0 42	23 26	0 26	24 3	0 26	23 4	0 38	21 27	17 2	5 12	5 11	10 48		n.a.
T 6	23 6	10 58	1 42	24 38	2 0	17 0	2 49	7 27	0 27	23 50	0 42	23 26	0 26	24 3	0 26	23 4	0 38	21 27	17 1	5 12	5 10	10 46		n.a.
F 7	23 0	14 9	2 44	24 21	1 58	17 17	2 47	7 10	0 26	23 51	0 42	23 27	0 26	24 4	0 26	23 4	0 38	21 26	17 1	5 11	5 8	10 45		n.a.
S 8	22 53	16 35	3 36	24 3	1 56	17 34	2 44	6 53	0 25	23 52	0 42	23 28	0 26	24 4	0 26	23 5	0 38	21 26	17 1	5 9	5 7	10 43		n.a.
S 9	22 46	18 10	4 17	23 43	1 53	17 51	2 42	6 36	0 24	23 52	0 42	23 28	0 26	24 4	0 26	23 5	0 38	21 25	17 0	5 5	5 6	10 42		n.a.
M10	22 39	18 50	4 44	23 21	1 49	18 8	2 39	6 18	0 23	23 53	0 42	23 29	0 26	24 4	0 26	23 5	0 38	21 24	17 0	5 1	5 5	10 40		n.a.
T 11	22 31	18 36	4 58	22 57	1 45	18 24	2 36	6 1	0 22	23 54	0 43	23 29	0 26	24 4	0 26	23 5	0 38	21 24	17 0	4 55	5 3	10 38		n.a.
W12	22 23	17 30	4 58	22 32	1 41	18 40	2 33	5 44	0 21	23 55	0 43	23 30	0 26	24 4	0 26	23 5	0 38	21 23	16 59	4 50	5 2	10 37		n.a.
T 13	22 14	15 38	4 44	22 4	1 35	18 55	2 30	5 26	0 20	23 56	0 43	23 31	0 27	24 4	0 26	23 5	0 38	21 22	16 59	4 44	5 1	10 35		n.a.
F 14	22 5	13 7	4 18	21 34	1 29	19 10	2 27	5 9	0 19	23 56	0 43	23 31	0 27	24 4	0 26	23 5	0 38	21 22	16 59	4 39	5 0	10 33		n.a.
S 15	21 56	10 5	3 41	21 3	1 22	19 25	2 24	4 52	0 18	23 57	0 43	23 32	0 27	24 4	0 26	23 5	0 38	21 21	16 59	4 35	4 58	10 32		n.a.
S 16	21 46	6 39	2 54	20 30	1 15	19 39	2 21	4 34	0 17	23 58	0 43	23 32	0 27	24 4	0 26	23 5	0 38	21 21	16 58	4 32	4 57	10 30		n.a.
M17	21 35	2 58	2 0	19 55	1 6	19 53	2 18	4 17	0 16	23 59	0 43	23 33	0 27	24 4	0 26	23 5	0 38	21 20	16 58	4 30	4 56	10 29		n.a.
T 18	21 25	0s51	1 0	19 19	0 57	20 6	2 14	3 59	0 15	23 59	0 43	23 33	0 27	24 4	0 26	23 5	0 38	21 19	16 58	4 29	4 55	10 27		n.a.
W19	21 13	4 42	0n 4	18 42	0 48	20 19	2 11	3 42	0 14	24 0	0 43	23 34	0 27	24 5	0 26	23 5	0 38	21 19	16 57	4 29	4 53	10 25		n.a.
T 20	21 2	8 24	1 8	18 3	0 37	20 31	2 8	3 24	0 13	24 1	0 44	23 35	0 27	24 5	0 26	23 5	0 38	21 18	16 57	4 29	4 52	10 24		n.a.
F 21	20 50	11 50	2 11	17 24	0 26	20 43	2 4	3 7	0 12	24 2	0 44	23 35	0 27	24 5	0 26	23 5	0 38	21 17	16 57	4 29	4 51	10 22		n.a.
S 22	20 37	14 48	3 9	16 44	0 14	20 54	2 1	2 49	0 12	24 2	0 44	23 36	0 27	24 5	0 26	23 5	0 38	21 17	16 57	4 28	4 50	10 20		n.a.
S 23	20 25	17 6	3 59	16 5	0 1	21 5	1 57	2 32	0 11	24 3	0 44	23 36	0 28	24 5	0 26	23 5	0 38	21 16	16 56	4 26	4 48	10 19		n.a.
M24	20 12	18 28	4 37	15 25	0n12	21 15	1 54	2 14	0 10	24 3	0 44	23 37	0 28	24 5	0 26	23 5	0 38	21 15	16 56	4 24	4 47	10 17		n.a.
T 25	19 58	18 44	4 59	14 46	0 26	21 25	1 50	1 57	0 9	24 4	0 44	23 37	0 28	24 5	0 26	23 5	0 38	21 15	16 56	4 20	4 46	10 16		n.a.
W26	19 44	17 44	5 1	14 7	0 40	21 34	1 47	1 39	0 8	24 5	0 44	23 38	0 28	24 5	0 26	23 5	0 38	21 14	16 56	4 16	4 45	10 14		n.a.
T 27	19 30	15 29	4 43	13 30	0 55	21 42	1 43	1 22	0 7	24 5	0 44	23 38	0 28	24 5	0 26	23 5	0 38	21 13	16 55	4 12	4 43	10 12		n.a.
F 28	19 16	12 9	4 5	12 54	1 10	21 50	1 39	1 5	0 6	24 6	0 44	23 39	0 28	24 5	0 26	23 5	0 38	21 13	16 55	4 8	4 42	10 11		n.a.
S 29	19 1	8 1	3 9	12 21	1 26	21 58	1 36	0 47	0 6	24 6	0 44	23 39	0 28	24 5	0 26	23 5	0 38	21 12	16 55	4 5	4 41	10 9		n.a.
S 30	18 46	3 26	2 1	11 50	1 41	22 4	1 32	0 30	0 5	24 7	0 44	23 39	0 28	24 5	0 26	23 5	0 38	21 11	16 55	4 3	4 39	10 7		n.a.
M31	18s30	1n15	0n46	11s21	1n56	22s11	1n28	0s12	0s 4	24n 7	0n44	23n40	0n28	24n 5	0n26	23s 5	0n38	21s11	16s54	4s 2	4s38	10n 6		n.a.

Julian Day Number = 1668461.5, Delta T = 03h21m52s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'07, Lahiri = - 5°57'07 Julian Calendar 1 Jan. 145 BCE == Greg. Calendar 29 Dec. 146 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

FEBRUARY 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 28 26	8♒53'09	15♈34	26♒ 0	27♐ 3	0♈20	9°R 8	11°R32	3°R37	0♑11	15♓44	10°D 5	11♎33	24♌ 4	n.a.	T 1
W 2	8 32 23	9°53'16	29°21	26°23	28°14	1° 1	9♋ 2	11♋28	3♋35	0°13	15°45	10♎ 6	11°30	24°11	n.a.	W 2
T 3	8 36 19	10°53'21	12♉44	26°37	29°24	1°43	8°56	11°24	3°33	0°15	15°46	10°R 6	11°26	24°18	n.a.	T 3
F 4	8 40 16	11°53'24	25°45	26°R42	0♑35	2°24	8°50	11°20	3°31	0°17	15°47	10° 5	11°23	24°24	n.a.	F 4
S 5	8 44 12	12°53'24	8♊29	26°38	1°45	3° 5	8°45	11°16	3°29	0°18	15°48	10° 2	11°20	24°31	n.a.	S 5
S 6	8 48 9	13°53'22	20°58	26°24	2°56	3°46	8°39	11°13	3°27	0°20	15°50	9°56	11°17	24°38	n.a.	S 6
M 7	8 52 6	14°53'18	3♋16	26° 2	4° 6	4°28	8°34	11° 9	3°25	0°22	15°51	9°49	11°14	24°44	n.a.	M 7
T 8	8 56 2	15°53'12	15°24	25°32	5°17	5° 9	8°29	11° 6	3°24	0°24	15°52	9°39	11°10	24°51	n.a.	T 8
W 9	8 59 59	16°53'03	27°25	24°55	6°28	5°50	8°24	11° 2	3°22	0°25	15°53	9°29	11° 7	24°58	n.a.	W 9
T 10	9 3 55	17°52'52	9♌22	24°11	7°39	6°31	8°19	10°59	3°20	0°27	15°55	9°18	11° 4	25° 4	n.a.	T 10
F 11	9 7 52	18°52'40	21°14	23°23	8°50	7°12	8°15	10°55	3°19	0°29	15°56	9° 9	11° 1	25°11	n.a.	F 11
S 12	9 11 48	19°52'25	3♍ 4	22°30	10° 1	7°53	8°10	10°52	3°17	0°30	15°57	9° 1	10°58	25°18	n.a.	S 12
S 13	9 15 45	20°52'08	14°54	21°34	11°12	8°34	8° 6	10°49	3°16	0°32	15°59	8°56	10°55	25°24	n.a.	S 13
M14	9 19 41	21°51'49	26°45	20°37	12°23	9°15	8° 2	10°46	3°14	0°34	16° 0	8°53	10°51	25°31	n.a.	M14
T 15	9 23 38	22°51'28	8♎41	19°40	13°34	9°56	7°58	10°43	3°13	0°35	16° 1	8°D52	10°48	25°38	n.a.	T 15
W16	9 27 34	23°51'05	20°45	18°43	14°45	10°37	7°54	10°40	3°11	0°37	16° 3	8°53	10°45	25°44	n.a.	W16
T 17	9 31 31	24°50'40	3♏ 1	17°49	15°56	11°18	7°50	10°37	3°10	0°38	16° 4	8°54	10°42	25°51	n.a.	T 17
F 18	9 35 28	25°50'14	15°34	16°58	17° 7	11°59	7°47	10°34	3° 9	0°40	16° 5	8°56	10°39	25°58	n.a.	F 18
S 19	9 39 24	26°49'45	28°28	16°11	18°19	12°40	7°44	10°32	3° 7	0°41	16° 7	8°R56	10°36	26° 5	n.a.	S 19
S 20	9 43 21	27°49'15	11♐46	15°28	19°30	13°21	7°41	10°29	3° 6	0°43	16° 8	8°55	10°32	26°11	n.a.	S 20
M21	9 47 17	28°48'43	25°32	14°51	20°42	14° 1	7°38	10°27	3° 5	0°44	16° 9	8°52	10°29	26°18	n.a.	M21
T 22	9 51 14	29°48'09	9♑47	14°19	21°53	14°42	7°35	10°24	3° 4	0°46	16°11	8°48	10°26	26°25	n.a.	T 22
W23	9 55 10	0♓47'33	24°28	13°53	23° 4	15°23	7°33	10°22	3° 3	0°47	16°12	8°43	10°23	26°31	n.a.	W23
T 24	9 59 7	1°46'55	9♒29	13°33	24°16	16° 4	7°31	10°20	3° 2	0°48	16°14	8°37	10°20	26°38	n.a.	T 24
F 25	10 3 3	2°46'16	24°42	13°19	25°28	16°44	7°28	10°18	3° 1	0°50	16°15	8°32	10°16	26°45	n.a.	F 25
S 26	10 7 0	3°45'34	9♓58	13°11	26°39	17°25	7°26	10°16	3° 0	0°51	16°16	8°28	10°13	26°51	n.a.	S 26
S 27	10 10 57	4°44'49	25° 5	13°D 9	27°51	18° 6	7°25	10°14	2°59	0°52	16°18	8°26	10°10	26°58	n.a.	S 27
M28	10 14 53	5°44'03	9♈55	13°13	29° 2	18°46	7°23	10°12	2°58	0°53	16°19	8°D25	10° 7	27° 5	n.a.	M28
T 29	10 18 50	6♓43'14	24♈21	13♒21	0♒14	19♈27	7♋22	10♋11	2♋58	0♑54	16♓21	8♎26	10♎ 4	27♌11	n.a.	T 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s14	5n45	0s29	10s56	2n12	22s16	1n24	0n 5	0s 3	24n 8	0n44	23n40	0n28	24n 5	0n26	23s 5	0n38	21s10	16s54	4s 2	4s37	10n 4		n.a.
W 2	17 58	9 47	1 41	10 34	2 26	22 21	1 21	0 23	0 2	24 8	0 44	23 41	0 28	24 5	0 26	23 5	0 38	21 9	16 54	4 3	4 36	10 2		n.a.
T 3	17 42	13 13	2 45	10 16	2 40	22 26	1 17	0 40	0 1	24 9	0 44	23 41	0 28	24 5	0 26	23 5	0 38	21 9	16 54	4 3	4 34	10 1		n.a.
F 4	17 25	15 52	3 39	10 2	2 54	22 29	1 13	0 57	0 1	24 9	0 44	23 42	0 29	24 6	0 26	23 5	0 38	21 8	16 54	4 2	4 33	9 59		n.a.
S 5	17 8	17 41	4 21	9 52	3 6	22 32	1 9	1 15	0n 0	24 10	0 45	23 42	0 29	24 6	0 26	23 5	0 38	21 7	16 53	4 1	4 32	9 57		n.a.
S 6	16 51	18 36	4 49	9 46	3 17	22 35	1 6	1 32	0 1	24 10	0 45	23 42	0 29	24 6	0 26	23 5	0 38	21 7	16 53	3 59	4 31	9 56		n.a.
M 7	16 33	18 37	5 3	9 45	3 27	22 37	1 2	1 49	0 2	24 10	0 45	23 43	0 29	24 6	0 26	23 5	0 38	21 6	16 53	3 56	4 29	9 54		n.a.
T 8	16 15	17 47	5 4	9 47	3 35	22 38	0 58	2 6	0 2	24 11	0 45	23 43	0 29	24 6	0 26	23 5	0 38	21 5	16 53	3 52	4 28	9 53		n.a.
W 9	15 57	16 9	4 51	9 54	3 41	22 39	0 54	2 23	0 3	24 11	0 45	23 44	0 29	24 6	0 26	23 5	0 38	21 5	16 53	3 48	4 27	9 51		n.a.
T 10	15 39	13 51	4 25	10 4	3 45	22 39	0 51	2 41	0 4	24 11	0 45	23 44	0 29	24 6	0 26	23 5	0 38	21 4	16 52	3 44	4 26	9 49		n.a.
F 11	15 20	10 59	3 48	10 18	3 48	22 38	0 47	2 58	0 5	24 12	0 45	23 44	0 29	24 6	0 26	23 5	0 38	21 3	16 52	3 40	4 24	9 48		n.a.
S 12	15 1	7 41	3 1	10 34	3 48	22 37	0 43	3 15	0 5	24 12	0 45	23 45	0 29	24 6	0 26	23 5	0 38	21 3	16 52	3 37	4 23	9 46		n.a.
S 13	14 42	4 5	2 6	10 54	3 47	22 35	0 39	3 32	0 6	24 12	0 45	23 45	0 29	24 6	0 26	23 5	0 38	21 2	16 52	3 35	4 22	9 44		n.a.
M14	14 23	0 19	1 5	11 15	3 43	22 32	0 36	3 49	0 7	24 13	0 45	23 45	0 29	24 6	0 26	23 5	0 38	21 1	16 52	3 34	4 21	9 43		n.a.
T 15	14 3	3s30	0 1	11 38	3 38	22 29	0 32	4 6	0 8	24 13	0 45	23 46	0 29	24 6	0 26	23 5	0 38	21 1	16 52	3 33	4 19	9 41		n.a.
W16	13 43	7 12	1n 4	12 3	3 31	22 25	0 28	4 23	0 8	24 13	0 45	23 46	0 29	24 6	0 26	23 5	0 38	21 0	16 52	3 34	4 18	9 39		n.a.
T 17	13 23	10 40	2 7	12 28	3 22	22 20	0 25	4 40	0 9	24 13	0 45	23 46	0 29	24 6	0 26	23 5	0 38	20 59	16 51	3 34	4 17	9 38		n.a.
F 18	13 3	13 43	3 6	12 53	3 12	22 15	0 21	4 56	0 10	24 13	0 45	23 46	0 30	24 6	0 26	23 4	0 38	20 59	16 51	3 35	4 16	9 36		n.a.
S 19	12 43	16 12	3 57	13 18	3 0	22 9	0 17	5 13	0 11	24 14	0 45	23 47	0 30	24 6	0 26	23 4	0 38	20 58	16 51	3 35	4 14	9 34		n.a.
S 20	12 22	17 53	4 37	13 43	2 48	22 3	0 14	5 30	0 11	24 14	0 45	23 47	0 30	24 6	0 26	23 4	0 38	20 57	16 51	3 34	4 13	9 33		n.a.
M21	12 1	18 36	5 2	14 6	2 34	21 56	0 10	5 47	0 12	24 14	0 45	23 47	0 30	24 6	0 26	23 4	0 38	20 57	16 51	3 33	4 12	9 31		n.a.
T 22	11 40	18 11	5 11	14 29	2 20	21 48	0 7	6 3	0 13	24 14	0 45	23 47	0 30	24 6	0 26	23 4	0 38	20 56	16 51	3 32	4 11	9 29		n.a.
W23	11 19	16 34	4 59	14 50	2 6	21 39	0 3	6 20	0 13	24 14	0 45	23 48	0 30	24 6	0 26	23 4	0 38	20 55	16 51	3 30	4 9	9 28		n.a.
T 24	10 58	13 47	4 27	15 10	1 51	21 30	0s 0	6 36	0 14	24 14	0 45	23 48	0 30	24 6	0 26	23 4	0 38	20 55	16 51	3 27	4 8	9 26		n.a.
F 25	10 36	10 3	3 36	15 28	1 36	21 21	0 3	6 53	0 15	24 15	0 45	23 48	0 30	24 6	0 26	23 4	0 38	20 54	16 51	3 25	4 7	9 24		n.a.
S 26	10 14	5 37	2 29	15 45	1 22	21 10	0 7	7 9	0 15	24 15	0 45	23 48	0 30	24 6	0 26	23 4	0 38	20 53	16 50	3 24	4 6	9 23		n.a.
S 27	9 53	0 52	1 12	15 59	1 7	21 0	0 10	7 25	0 16	24 15	0 45	23 49	0 30	24 6	0 26	23 4	0 38	20 53	16 50	3 23	4 4	9 21		n.a.
M28	9 31	3n51	0s 8	16 12	0 53	20 48	0 13	7 42	0 17	24 15	0 45	23 49	0 30	24 6	0 26	23 4	0 38	20 52	16 50	3 23	4 3	9 19		n.a.
T 29	9s 9	8n13	1s26	16s23	0n38	20s36	0s17	7n58	0n17	24n15	0n45	23n49	0n30	24n 6	0n26	23s 4	0n38	20s52	16s50	3s23	4s 2	9n18		n.a.

Julian Day Number = 1668492.5, Delta T = 03h21m51s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°04'03, Lahiri = - 5°57'03 Julian Calendar 1 Feb. 145 BCE == Greg. Calendar 29 Jan. 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

MARCH 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 22 46	7♓42'23	8♉20	13♒36	1♒26	20♈ 7	7°R21	10°R 9	2°R57	0♑56	16♓22	8♎27	10♎ 1	27♌18	n.a.	W 1
T 2	10 26 43	8°41'29	21°53	13°55	2°37	20°48	7♋20	10♋ 8	2♋56	0°57	16°24	8°29	9°57	27°25	n.a.	T 2
F 3	10 30 39	9°40'33	5♊ 0	14°19	3°49	21°28	7°19	10° 6	2°56	0°58	16°25	8°R30	9°54	27°31	n.a.	F 3
S 4	10 34 36	10°39'35	17°45	14°47	5° 1	22° 9	7°18	10° 5	2°55	0°59	16°26	8°30	9°51	27°38	n.a.	S 4
S 5	10 38 32	11°38'34	0♋12	15°20	6°13	22°49	7°18	10° 4	2°55	1° 0	16°28	8°28	9°48	27°45	n.a.	S 5
M 6	10 42 29	12°37'31	12°25	15°57	7°25	23°29	7°18	10° 3	2°54	1° 1	16°29	8°26	9°45	27°51	n.a.	M 6
T 7	10 46 26	13°36'26	24°27	16°38	8°37	24°10	7°D18	10° 2	2°54	1° 2	16°31	8°22	9°42	27°58	n.a.	T 7
W 8	10 50 22	14°35'18	6♌22	17°22	9°48	24°50	7°18	10° 1	2°53	1° 3	16°32	8°18	9°38	28° 5	n.a.	W 8
T 9	10 54 19	15°34'08	18°13	18°10	11° 0	25°30	7°18	10° 1	2°53	1° 4	16°34	8°14	9°35	28°11	n.a.	T 9
F 10	10 58 15	16°32'55	0♍ 3	19° 2	12°12	26°11	7°19	10° 0	2°53	1° 5	16°35	8°11	9°32	28°18	n.a.	F 10
S 11	11 2 12	17°31'41	11°53	19°56	13°24	26°51	7°20	10° 0	2°53	1° 6	16°36	8° 8	9°29	28°25	n.a.	S 11
S 12	11 6 8	18°30'24	23°46	20°54	14°36	27°31	7°21	9°59	2°53	1° 6	16°38	8° 6	9°26	28°32	n.a.	S 12
M13	11 10 5	19°29'05	5♎44	21°54	15°48	28°11	7°22	9°59	2°53	1° 7	16°39	8°D 6	9°22	28°38	n.a.	M13
T 14	11 14 1	20°27'44	17°49	22°57	17° 0	28°51	7°23	9°59	2°D53	1° 8	16°41	8° 6	9°19	28°45	n.a.	T 14
W15	11 17 58	21°26'22	0♏ 3	24° 3	18°12	29°31	7°24	9°D59	2°53	1° 9	16°42	8° 7	9°16	28°52	n.a.	W15
T 16	11 21 54	22°24'57	12°29	25°11	19°24	0♉11	7°26	9°59	2°53	1°10	16°44	8° 8	9°13	28°58	n.a.	T 16
F 17	11 25 51	23°23'31	25°10	26°21	20°36	0°51	7°28	9°59	2°53	1°10	16°45	8° 9	9°10	29° 5	n.a.	F 17
S 18	11 29 48	24°22'03	8♐ 7	27°34	21°49	1°31	7°30	10° 0	2°53	1°11	16°47	8°10	9° 7	29°12	n.a.	S 18
S 19	11 33 44	25°20'33	21°25	28°49	23° 1	2°11	7°32	10° 0	2°53	1°11	16°48	8°R11	9° 3	29°18	n.a.	S 19
M20	11 37 41	26°19'02	5♑ 4	0♓ 6	24°13	2°51	7°35	10° 0	2°54	1°12	16°49	8°11	9° 0	29°25	n.a.	M20
T 21	11 41 37	27°17'28	19° 7	1°26	25°25	3°31	7°37	10° 1	2°54	1°13	16°51	8°10	8°57	29°32	n.a.	T 21
W22	11 45 34	28°15'54	3♒31	2°47	26°37	4°11	7°40	10° 2	2°54	1°13	16°52	8° 9	8°54	29°38	n.a.	W22
T 23	11 49 30	29°14'17	18°14	4°11	27°50	4°51	7°43	10° 3	2°55	1°14	16°54	8° 8	8°51	29°45	n.a.	T 23
F 24	11 53 27	0♈12'39	3♓11	5°36	29° 2	5°31	7°46	10° 4	2°55	1°14	16°55	8° 7	8°47	29°52	n.a.	F 24
S 25	11 57 23	1°10'59	18°13	7° 3	0♓14	6°11	7°49	10° 5	2°56	1°14	16°56	8° 7	8°44	29°58	n.a.	S 25
S 26	12 1 20	2° 9'17	3♈12	8°32	1°26	6°51	7°53	10° 6	2°57	1°15	16°58	8°D 6	8°41	0♍ 5	n.a.	S 26
M27	12 5 16	3° 7'33	18° 0	10° 4	2°39	7°30	7°56	10° 7	2°57	1°15	16°59	8° 6	8°38	0°12	n.a.	M27
T 28	12 9 13	4° 5'47	2♉30	11°36	3°51	8°10	8° 0	10° 8	2°58	1°15	17° 1	8° 7	8°35	0°18	n.a.	T 28
W29	12 13 10	5° 3'59	16°36	13°11	5° 3	8°50	8° 4	10°10	2°59	1°16	17° 2	8° 7	8°32	0°25	n.a.	W29
T 30	12 17 6	6° 2'10	0♊16	14°48	6°16	9°29	8° 8	10°11	3° 0	1°16	17° 3	8° 7	8°28	0°32	n.a.	T 30
F 31	12 21 3	7♈ 0'18	13♊31	16♓26	7♓28	10♉ 9	8♋12	10♋13	3♋ 0	1♑16	17♓ 5	8♎ 7	8♎25	0♍38	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	8s46	11n58	2s37	16s33	0n24	20s23	0s20	8n14	0n18	24n15	0n45	23n49	0n30	24n 6	0n26	23s 4	0n38	20s51	16s50	3s23	4s 0	9n16			n.a.
T 2	8 24	14 58	3 36	16 40	0 11	20 10	0 23	8 30	0 19	24 15	0 45	23 49	0 30	24 6	0 25	23 4	0 38	20 50	16 50	3 24	3 59	9 14			n.a.
F 3	8 2	17 5	4 22	16 45	0s 2	19 56	0 26	8 46	0 19	24 15	0 45	23 49	0 30	24 6	0 25	23 4	0 38	20 50	16 50	3 24	3 58	9 13			n.a.
S 4	7 39	18 16	4 54	16 49	0 15	19 42	0 29	9 2	0 20	24 15	0 45	23 50	0 30	24 6	0 25	23 4	0 38	20 49	16 50	3 24	3 57	9 11			n.a.
S 5	7 17	18 32	5 11	16 51	0 27	19 27	0 32	9 17	0 21	24 15	0 45	23 50	0 30	24 6	0 25	23 4	0 38	20 48	16 50	3 24	3 55	9 9			n.a.
M 6	6 54	17 56	5 13	16 51	0 38	19 11	0 35	9 33	0 21	24 15	0 45	23 50	0 30	24 6	0 25	23 4	0 38	20 48	16 50	3 23	3 54	9 8			n.a.
T 7	6 31	16 31	5 2	16 49	0 49	18 55	0 38	9 49	0 22	24 15	0 45	23 50	0 31	24 6	0 25	23 4	0 38	20 47	16 50	3 21	3 53	9 6			n.a.
W 8	6 8	14 25	4 37	16 45	1 0	18 39	0 41	10 4	0 22	24 15	0 45	23 50	0 31	24 6	0 25	23 4	0 38	20 47	16 50	3 20	3 52	9 4			n.a.
T 9	5 45	11 43	4 1	16 40	1 10	18 22	0 43	10 20	0 23	24 15	0 45	23 50	0 31	24 6	0 25	23 4	0 38	20 46	16 50	3 18	3 50	9 2			n.a.
F 10	5 22	8 33	3 15	16 32	1 19	18 4	0 46	10 35	0 24	24 15	0 45	23 50	0 31	24 6	0 25	23 4	0 38	20 45	16 50	3 17	3 49	9 1			n.a.
S 11	4 59	5 2	2 20	16 23	1 28	17 46	0 49	10 50	0 24	24 15	0 45	23 50	0 31	24 6	0 25	23 4	0 38	20 45	16 50	3 16	3 48	8 59			n.a.
S 12	4 36	1 18	1 18	16 13	1 36	17 27	0 51	11 6	0 25	24 15	0 45	23 50	0 31	24 6	0 25	23 4	0 38	20 44	16 50	3 15	3 47	8 57			n.a.
M13	4 13	2s30	0 13	16 0	1 44	17 8	0 54	11 21	0 25	24 15	0 45	23 50	0 31	24 6	0 25	23 4	0 38	20 44	16 50	3 15	3 45	8 56			n.a.
T 14	3 49	6 15	0n54	15 46	1 51	16 49	0 56	11 36	0 26	24 15	0 45	23 51	0 31	24 6	0 25	23 4	0 38	20 43	16 50	3 15	3 44	8 54			n.a.
W15	3 26	9 46	1 59	15 30	1 58	16 28	0 59	11 51	0 27	24 14	0 45	23 51	0 31	24 6	0 25	23 4	0 38	20 43	16 50	3 15	3 43	8 52			n.a.
T 16	3 3	12 55	2 59	15 13	2 4	16 8	1 1	12 5	0 27	24 14	0 45	23 51	0 31	24 6	0 25	23 4	0 38	20 42	16 50	3 16	3 42	8 51			n.a.
F 17	2 39	15 31	3 52	14 54	2 9	15 47	1 3	12 20	0 28	24 14	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 42	16 50	3 16	3 40	8 49			n.a.
S 18	2 16	17 23	4 35	14 33	2 14	15 26	1 5	12 35	0 28	24 14	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 41	16 50	3 17	3 39	8 47			n.a.
S 19	1 52	18 23	5 4	14 11	2 19	15 4	1 8	12 49	0 29	24 14	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 41	16 50	3 17	3 38	8 46			n.a.
M20	1 29	18 20	5 17	13 47	2 22	14 42	1 10	13 4	0 29	24 14	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 40	16 50	3 17	3 36	8 44			n.a.
T 21	1 5	17 12	5 11	13 21	2 26	14 19	1 12	13 18	0 30	24 14	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 39	16 50	3 17	3 35	8 42			n.a.
W22	0 42	14 56	4 47	12 54	2 28	13 56	1 14	13 32	0 31	24 13	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 39	16 50	3 16	3 34	8 41			n.a.
T 23	0 18	11 41	4 3	12 25	2 31	13 32	1 15	13 46	0 31	24 13	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 38	16 50	3 16	3 33	8 39			n.a.
F 24	0n 5	7 38	3 2	11 55	2 32	13 9	1 17	14 0	0 32	24 13	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 38	16 50	3 15	3 31	8 37			n.a.
S 25	0 29	3 3	1 48	11 23	2 33	12 45	1 19	14 14	0 32	24 13	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 37	16 51	3 15	3 30	8 35			n.a.
S 26	0 52	1n42	0 27	10 50	2 34	12 20	1 21	14 28	0 33	24 13	0 44	23 51	0 31	24 6	0 25	23 4	0 38	20 37	16 51	3 15	3 29	8 34			n.a.
M27	1 15	6 18	0s55	10 15	2 34	11 55	1 22	14 42	0 33	24 12	0 44	23 50	0 31	24 6	0 25	23 4	0 38	20 37	16 51	3 15	3 28	8 32			n.a.
T 28	1 39	10 25	2 11	9 39	2 33	11 30	1 24	14 55	0 34	24 12	0 44	23 50	0 31	24 6	0 25	23 4	0 38	20 36	16 51	3 15	3 26	8 30			n.a.
W29	2 2	13 49	3 18	9 1	2 32	11 5	1 25	15 9	0 34	24 12	0 44	23 50	0 31	24 6	0 25	23 4	0 38	20 36	16 51	3 15	3 25	8 29			n.a.
T 30	2 25	16 21	4 11	8 22	2 30	10 39	1 26	15 22	0 35	24 11	0 44	23 50	0 32	24 6	0 25	23 4	0 38	20 35	16 51	3 15	3 24	8 27			n.a.
F 31	2n49	17n54	4s49	7s41	2s28	10s13	1s28	15n35	0n35	24n11	0n44	23n50	0n32	24n 6	0n25	23s 4	0n38	20s35	16s51	3s15	3s23	8n25			n.a.

Julian Day Number = 1668521.5, Delta T = 03h21m50s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'59, Lahiri = - 5°56'59 Julian Calendar 1 March 145 BCE == Greg. Calendar 27 Feb. 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

APRIL 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 24 59	7♈58'24	26♊22	18♓ 6	8♓40	10♉49	8♋17	10♋15	3♋ 1	1♏16	17♓ 6	8♎ 7	8♎22	0♍45	n.a.	S 1
S 2	12 28 56	8°56'28	8♋52	19°49	9°53	11°28	8°21	10°17	3° 2	1°17	17° 8	8° 7	8°19	0°52	n.a.	S 2
M 3	12 32 52	9°54'30	21° 5	21°32	11° 5	12° 8	8°26	10°19	3° 3	1°17	17° 9	8° 7	8°16	0°58	n.a.	M 3
T 4	12 36 49	10°52'30	3♌ 6	23°18	12°17	12°47	8°31	10°21	3° 5	1°17	17°10	8° 8	8°13	1° 5	n.a.	T 4
W 5	12 40 45	11°50'28	14°59	25° 6	13°30	13°27	8°36	10°23	3° 6	1°17	17°12	8° 8	8° 9	1°12	n.a.	W 5
T 6	12 44 42	12°48'24	26°49	26°55	14°42	14° 6	8°41	10°25	3° 7	1°R17	17°13	8° 8	8° 6	1°18	n.a.	T 6
F 7	12 48 39	13°46'19	8♍38	28°46	15°55	14°46	8°47	10°28	3° 8	1°17	17°14	8° 9	8° 3	1°25	n.a.	F 7
S 8	12 52 35	14°44'11	20°31	0♈39	17° 7	15°25	8°52	10°30	3° 9	1°17	17°15	8° 9	8° 0	1°32	n.a.	S 8
S 9	12 56 32	15°42'02	2♎31	2°34	18°20	16° 5	8°58	10°33	3°11	1°17	17°17	8°R10	7°57	1°38	n.a.	S 9
M10	13 0 28	16°39'51	14°39	4°31	19°32	16°44	9° 4	10°35	3°12	1°17	17°18	8°10	7°53	1°45	n.a.	M10
T 11	13 4 25	17°37'38	26°57	6°30	20°45	17°23	9°10	10°38	3°14	1°16	17°19	8° 9	7°50	1°52	n.a.	T 11
W12	13 8 21	18°35'24	9♏27	8°30	21°57	18° 3	9°16	10°41	3°15	1°16	17°21	8° 8	7°47	1°58	n.a.	W12
T 13	13 12 18	19°33'09	22°10	10°32	23°10	18°42	9°22	10°44	3°17	1°16	17°22	8° 7	7°44	2° 5	n.a.	T 13
F 14	13 16 14	20°30'52	5♐ 7	12°35	24°22	19°21	9°29	10°47	3°18	1°16	17°23	8° 5	7°41	2°12	n.a.	F 14
S 15	13 20 11	21°28'34	18°19	14°41	25°35	20° 1	9°35	10°50	3°20	1°15	17°24	8° 4	7°38	2°18	n.a.	S 15
S 16	13 24 8	22°26'15	1♑45	16°47	26°47	20°40	9°42	10°54	3°22	1°15	17°26	8° 2	7°34	2°25	n.a.	S 16
M17	13 28 4	23°23'54	15°27	18°55	28° 0	21°19	9°49	10°57	3°23	1°15	17°27	8° 2	7°31	2°32	n.a.	M17
T 18	13 32 1	24°21'33	29°24	21° 4	29°12	21°58	9°56	11° 0	3°25	1°14	17°28	8°D 2	7°28	2°38	n.a.	T 18
W19	13 35 57	25°19'10	13♒35	23°14	0♈25	22°37	10° 3	11° 4	3°27	1°14	17°29	8° 2	7°25	2°45	n.a.	W19
T 20	13 39 54	26°16'47	27°59	25°25	1°38	23°17	10°10	11° 8	3°29	1°14	17°30	8° 3	7°22	2°52	n.a.	T 20
F 21	13 43 50	27°14'22	12♓33	27°36	2°50	23°56	10°18	11°11	3°31	1°13	17°31	8° 4	7°18	2°58	n.a.	F 21
S 22	13 47 47	28°11'56	27°11	29°47	4° 3	24°35	10°25	11°15	3°33	1°13	17°33	8° 5	7°15	3° 5	n.a.	S 22
S 23	13 51 43	29° 9'29	11♈49	1♉58	5°16	25°14	10°33	11°19	3°35	1°12	17°34	8°R 6	7°12	3°12	n.a.	S 23
M24	13 55 40	0♉ 7'01	26°20	4° 9	6°28	25°53	10°40	11°23	3°37	1°12	17°35	8° 5	7° 9	3°18	n.a.	M24
T 25	13 59 36	1° 4'32	10♉39	6°20	7°41	26°32	10°48	11°27	3°39	1°11	17°36	8° 3	7° 6	3°25	n.a.	T 25
W26	14 3 33	2° 2'01	24°40	8°29	8°54	27°11	10°56	11°31	3°41	1°10	17°37	8° 0	7° 3	3°32	n.a.	W26
T 27	14 7 30	2°59'30	8♊19	10°38	10° 7	27°50	11° 4	11°35	3°43	1°10	17°38	7°56	6°59	3°38	n.a.	T 27
F 28	14 11 26	3°56'57	21°36	12°45	11°19	28°29	11°13	11°40	3°45	1° 9	17°39	7°53	6°56	3°45	n.a.	F 28
S 29	14 15 23	4°54'23	4♋29	14°51	12°32	29° 8	11°21	11°44	3°48	1° 8	17°40	7°49	6°53	3°52	n.a.	S 29
S 30	14 19 19	5♉51'47	17♋ 2	16♉54	13♈45	29♉47	11♋30	11♋48	3♋50	1♑ 8	17♓41	7♎47	6♎50	3♍58	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n12	18n29	5s11	6s59	2s25	9s47	1s29	15n48	0n36	24n11	0n44	23n50	0n32	24n 6	0n25	23s 4	0n38	20s34	16s51	3s15	3s21	8n23		n.a.
S 2	3 35	18 8	5 18	6 15	2 22	9 20	1 30	16 1	0 36	24 11	0 44	23 50	0 32	24 6	0 25	23 4	0 38	20 34	16 51	3 15	3 20	8 22		n.a.
M 3	3 58	16 56	5 10	5 30	2 18	8 53	1 31	16 14	0 37	24 10	0 44	23 50	0 32	24 6	0 25	23 4	0 38	20 33	16 52	3 15	3 19	8 20		n.a.
T 4	4 21	15 1	4 48	4 44	2 14	8 26	1 32	16 26	0 37	24 10	0 44	23 50	0 32	24 5	0 25	23 4	0 38	20 33	16 52	3 15	3 17	8 18		n.a.
W 5	4 44	12 28	4 14	3 56	2 9	7 59	1 33	16 39	0 38	24 9	0 44	23 50	0 32	24 5	0 25	23 4	0 38	20 33	16 52	3 16	3 16	8 17		n.a.
T 6	5 7	9 26	3 30	3 7	2 3	7 32	1 34	16 51	0 38	24 9	0 44	23 49	0 32	24 5	0 25	23 4	0 38	20 32	16 52	3 16	3 15	8 15		n.a.
F 7	5 30	6 0	2 37	2 17	1 57	7 4	1 34	17 4	0 39	24 9	0 44	23 49	0 32	24 5	0 25	23 4	0 38	20 32	16 52	3 16	3 14	8 13		n.a.
S 8	5 52	2 19	1 36	1 25	1 51	6 36	1 35	17 16	0 39	24 8	0 44	23 49	0 32	24 5	0 25	23 4	0 38	20 31	16 52	3 16	3 12	8 11		n.a.
S 9	6 15	1s29	0 31	0 33	1 44	6 8	1 36	17 28	0 39	24 8	0 44	23 49	0 32	24 5	0 25	23 4	0 38	20 31	16 52	3 16	3 11	8 10		n.a.
M10	6 37	5 17	0n36	0n21	1 36	5 40	1 36	17 40	0 40	24 7	0 44	23 49	0 32	24 5	0 25	23 4	0 38	20 31	16 53	3 16	3 10	8 8		n.a.
T 11	7 0	8 55	1 42	1 16	1 28	5 11	1 37	17 52	0 40	24 7	0 44	23 49	0 32	24 5	0 25	23 4	0 38	20 30	16 53	3 16	3 9	8 6		n.a.
W12	7 22	12 12	2 45	2 11	1 20	4 43	1 37	18 3	0 41	24 7	0 44	23 48	0 32	24 5	0 25	23 4	0 38	20 30	16 53	3 16	3 7	8 5		n.a.
T 13	7 44	14 58	3 40	3 8	1 11	4 14	1 37	18 15	0 41	24 6	0 44	23 48	0 32	24 5	0 25	23 4	0 39	20 30	16 53	3 15	3 6	8 3		n.a.
F 14	8 6	17 2	4 26	4 5	1 2	3 45	1 37	18 26	0 42	24 6	0 44	23 48	0 32	24 5	0 25	23 4	0 39	20 29	16 53	3 15	3 5	8 1		n.a.
S 15	8 28	18 15	4 58	5 3	0 52	3 16	1 38	18 37	0 42	24 5	0 44	23 48	0 32	24 5	0 25	23 4	0 39	20 29	16 53	3 14	3 4	7 59		n.a.
S 16	8 50	18 27	5 14	6 1	0 42	2 47	1 38	18 48	0 43	24 5	0 44	23 48	0 32	24 5	0 25	23 4	0 39	20 29	16 54	3 13	3 2	7 58		n.a.
M17	9 11	17 37	5 14	7 0	0 32	2 18	1 38	18 59	0 43	24 4	0 44	23 47	0 32	24 5	0 25	23 4	0 39	20 28	16 54	3 13	3 1	7 56		n.a.
T 18	9 33	15 42	4 55	7 59	0 22	1 48	1 38	19 10	0 43	24 4	0 44	23 47	0 32	24 5	0 25	23 4	0 39	20 28	16 54	3 13	3 0	7 54		n.a.
W19	9 54	12 49	4 18	8 57	0 11	1 19	1 37	19 21	0 44	24 3	0 44	23 47	0 32	24 5	0 25	23 4	0 39	20 28	16 54	3 13	2 58	7 53		n.a.
T 20	10 15	9 7	3 24	9 55	0 1	0 50	1 37	19 31	0 44	24 2	0 44	23 46	0 32	24 5	0 25	23 4	0 39	20 28	16 55	3 14	2 57	7 51		n.a.
F 21	10 36	4 50	2 17	10 53	0n10	0 20	1 37	19 41	0 45	24 2	0 44	23 46	0 32	24 5	0 25	23 4	0 39	20 27	16 55	3 14	2 56	7 49		n.a.
S 22	10 57	0 13	1 0	11 50	0 20	0n 9	1 37	19 51	0 45	24 1	0 44	23 46	0 32	24 5	0 25	23 4	0 39	20 27	16 55	3 15	2 55	7 47		n.a.
S 23	11 18	4n25	0s21	12 46	0 31	0 39	1 36	20 1	0 46	24 1	0 44	23 46	0 32	24 4	0 25	23 4	0 39	20 27	16 55	3 15	2 53	7 46		n.a.
M24	11 38	8 44	1 39	13 41	0 41	1 8	1 36	20 11	0 46	24 0	0 43	23 45	0 32	24 4	0 25	23 4	0 39	20 27	16 55	3 14	2 52	7 44		n.a.
T 25	11 59	12 30	2 50	14 35	0 51	1 38	1 35	20 21	0 46	23 59	0 43	23 45	0 33	24 4	0 25	23 4	0 39	20 26	16 56	3 14	2 51	7 42		n.a.
W26	12 19	15 27	3 49	15 27	1 0	2 7	1 35	20 31	0 47	23 59	0 43	23 45	0 33	24 4	0 25	23 4	0 39	20 26	16 56	3 12	2 50	7 40		n.a.
T 27	12 39	17 27	4 33	16 17	1 10	2 37	1 34	20 40	0 47	23 58	0 43	23 44	0 33	24 4	0 25	23 4	0 39	20 26	16 56	3 11	2 48	7 39		n.a.
F 28	12 59	18 25	5 2	17 5	1 18	3 6	1 33	20 49	0 47	23 57	0 43	23 44	0 33	24 4	0 25	23 4	0 39	20 26	16 56	3 10	2 47	7 37		n.a.
S 29	13 18	18 25	5 13	17 51	1 26	3 36	1 32	20 58	0 48	23 56	0 43	23 44	0 33	24 4	0 25	23 4	0 39	20 26	16 57	3 8	2 46	7 35		n.a.
S 30	13n38	17n29	5s10	18n35	1n34	4n 5	1s31	21n 7	0n48	23n56	0n43	23n43	0n33	24n 4	0n25	23s 4	0n39	20s25	16s57	3s 7	2s44	7n34		n.a.

Julian Day Number = 1668552.5, Delta T = 03h21m49s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'55, Lahiri = - 5°56'55 Julian Calendar 1 Apr. 145 BCE == Greg. Calendar 29 March 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

MAY 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 23 16	6♉49'10	29♋17	18♉56	14♈58	0♊26	11♋38	11♋53	3♋52	1°R 7	17♓42	7°R45	6♎47	4♍ 5	n.a.	M 1
T 2	14 27 12	7°46'32	11♌19	20°56	16°10	1° 5	11°47	11°58	3°55	1♁ 6	17°43	7°D45	6°44	4°12	n.a.	T 2
W 3	14 31 9	8°43'52	23°12	22°53	17°23	1°44	11°56	12° 2	3°57	1° 5	17°44	7♎46	6°40	4°19	n.a.	W 3
T 4	14 35 5	9°41'12	5♍ 2	24°48	18°36	2°23	12° 5	12° 7	3°59	1° 5	17°45	7°48	6°37	4°25	n.a.	T 4
F 5	14 39 2	10°38'30	16°53	26°41	19°49	3° 1	12°14	12°12	4° 2	1° 4	17°46	7°49	6°34	4°32	n.a.	F 5
S 6	14 42 59	11°35'47	28°49	28°31	21° 2	3°40	12°23	12°17	4° 4	1° 3	17°47	7°51	6°31	4°39	n.a.	S 6
S 7	14 46 55	12°33'03	10♎55	0♊19	22°14	4°19	12°32	12°22	4° 7	1° 2	17°48	7°R51	6°28	4°45	n.a.	S 7
M 8	14 50 52	13°30'18	23°14	2° 4	23°27	4°58	12°41	12°27	4°10	1° 1	17°49	7°50	6°24	4°52	n.a.	M 8
T 9	14 54 48	14°27'32	5♏47	3°46	24°40	5°37	12°51	12°32	4°12	1° 0	17°50	7°47	6°21	4°58	n.a.	T 9
W10	14 58 45	15°24'46	18°36	5°26	25°53	6°15	13° 0	12°37	4°15	0°59	17°51	7°43	6°18	5° 5	n.a.	W10
T 11	15 2 41	16°21'58	1♐41	7° 3	27° 6	6°54	13°10	12°43	4°18	0°58	17°52	7°37	6°15	5°12	n.a.	T 11
F 12	15 6 38	17°19'11	15° 1	8°38	28°19	7°33	13°20	12°48	4°20	0°57	17°52	7°31	6°12	5°18	n.a.	F 12
S 13	15 10 34	18°16'22	28°35	10°10	29°32	8°11	13°29	12°54	4°23	0°56	17°53	7°24	6° 9	5°25	n.a.	S 13
S 14	15 14 31	19°13'34	12♑20	11°39	0♉45	8°50	13°39	12°59	4°26	0°55	17°54	7°19	6° 5	5°32	n.a.	S 14
M15	15 18 28	20°10'44	26°14	13° 5	1°58	9°29	13°49	13° 5	4°29	0°54	17°55	7°15	6° 2	5°38	n.a.	M15
T 16	15 22 24	21° 7'55	10♒16	14°29	3°11	10° 7	13°59	13°10	4°32	0°53	17°56	7°13	5°59	5°45	n.a.	T 16
W17	15 26 21	22° 5'05	24°23	15°49	4°24	10°46	14°10	13°16	4°35	0°51	17°56	7°D12	5°56	5°52	n.a.	W17
T 18	15 30 17	23° 2'15	8♓35	17° 7	5°37	11°25	14°20	13°22	4°38	0°50	17°57	7°13	5°53	5°58	n.a.	T 18
F 19	15 34 14	23°59'25	22°49	18°22	6°50	12° 3	14°30	13°28	4°41	0°49	17°58	7°14	5°50	6° 5	n.a.	F 19
S 20	15 38 10	24°56'35	7♈ 3	19°34	8° 3	12°42	14°41	13°33	4°44	0°48	17°58	7°R15	5°46	6°12	n.a.	S 20
S 21	15 42 7	25°53'44	21°15	20°43	9°16	13°20	14°51	13°39	4°47	0°47	17°59	7°14	5°43	6°18	n.a.	S 21
M22	15 46 3	26°50'54	5♉22	21°49	10°29	13°59	15° 2	13°45	4°50	0°45	18° 0	7°11	5°40	6°25	n.a.	M22
T 23	15 50 0	27°48'03	19°19	22°52	11°42	14°37	15°13	13°51	4°53	0°44	18° 0	7° 6	5°37	6°32	n.a.	T 23
W24	15 53 57	28°45'12	3♊ 3	23°52	12°55	15°16	15°23	13°58	4°56	0°43	18° 1	6°59	5°34	6°38	n.a.	W24
T 25	15 57 53	29°42'21	16°31	24°48	14° 8	15°55	15°34	14° 4	4°59	0°41	18° 2	6°50	5°30	6°45	n.a.	T 25
F 26	16 1 50	0♊39'29	29°40	25°41	15°21	16°33	15°45	14°10	5° 2	0°40	18° 2	6°41	5°27	6°52	n.a.	F 26
S 27	16 5 46	1°36'37	12♋29	26°31	16°35	17°12	15°56	14°16	5° 5	0°39	18° 3	6°32	5°24	6°58	n.a.	S 27
S 28	16 9 43	2°33'45	25° 0	27°16	17°48	17°50	16° 7	14°23	5° 9	0°37	18° 3	6°25	5°21	7° 5	n.a.	S 28
M29	16 13 39	3°30'52	7♌15	27°58	19° 1	18°29	16°18	14°29	5°12	0°36	18° 4	6°20	5°18	7°12	n.a.	M29
T 30	16 17 36	4°27'59	19°16	28°37	20°14	19° 7	16°29	14°35	5°15	0°34	18° 4	6°16	5°15	7°18	n.a.	T 30
W31	16 21 33	5♊25'06	1♍ 9	29♊11	21♉28	19♊45	16♋41	14♋42	5♋18	0♁33	18♓ 5	6°D15	5♎11	7♍25	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat
M 1	13n57	15n46	4s52	19n16	1n41	4n34	1s30	21n16	0n49	23n55	0n43	23n43	0n33	24n 4	0n25	23s 4	0n39	20s25	16s57	3s 7		2s43		7n32			n.a.
T 2	14 16	13 23	4 22	19 55	1 47	5 3	1 29	21 24	0 49	23 54	0 43	23 43	0 33	24 4	0 25	23 4	0 39	20 25	16 57	3 7		2 42		7 30			n.a.
W 3	14 34	10 28	3 41	20 31	1 53	5 33	1 28	21 33	0 49	23 53	0 43	23 42	0 33	24 4	0 25	23 4	0 39	20 25	16 58	3 7		2 41		7 28			n.a.
T 4	14 53	7 8	2 50	21 5	1 58	6 2	1 27	21 41	0 50	23 52	0 43	23 42	0 33	24 4	0 25	23 4	0 39	20 25	16 58	3 8		2 39		7 27			n.a.
F 5	15 11	3 31	1 52	21 37	2 2	6 30	1 26	21 49	0 50	23 52	0 43	23 41	0 33	24 4	0 25	23 4	0 39	20 25	16 58	3 8		2 38		7 25			n.a.
S 6	15 29	0s17	0 49	22 6	2 6	6 59	1 25	21 57	0 50	23 51	0 43	23 41	0 33	24 3	0 25	23 4	0 39	20 24	16 59	3 9		2 37		7 23			n.a.
S 7	15 47	4 7	0n17	22 32	2 9	7 28	1 23	22 5	0 51	23 50	0 43	23 40	0 33	24 3	0 25	23 4	0 39	20 24	16 59	3 9		2 36		7 21			n.a.
M 8	16 4	7 50	1 23	22 56	2 11	7 56	1 22	22 12	0 51	23 49	0 43	23 40	0 33	24 3	0 25	23 4	0 39	20 24	16 59	3 8		2 34		7 20			n.a.
T 9	16 21	11 18	2 26	23 18	2 12	8 25	1 21	22 20	0 52	23 48	0 43	23 40	0 33	24 3	0 25	23 4	0 39	20 24	16 59	3 7		2 33		7 18			n.a.
W10	16 38	14 18	3 24	23 37	2 13	8 53	1 19	22 27	0 52	23 47	0 43	23 39	0 33	24 3	0 25	23 4	0 39	20 24	17 0	3 6		2 32		7 16			n.a.
T 11	16 55	16 38	4 11	23 54	2 12	9 21	1 18	22 34	0 52	23 46	0 43	23 39	0 33	24 3	0 25	23 4	0 39	20 24	17 0	3 3		2 31		7 14			n.a.
F 12	17 12	18 7	4 46	24 9	2 11	9 49	1 16	22 41	0 53	23 45	0 43	23 38	0 33	24 3	0 25	23 4	0 39	20 24	17 0	3 1		2 29		7 13			n.a.
S 13	17 28	18 36	5 6	24 22	2 10	10 16	1 15	22 47	0 53	23 44	0 43	23 38	0 33	24 3	0 25	23 4	0 39	20 24	17 1	2 58		2 28		7 11			n.a.
S 14	17 44	18 1	5 9	24 32	2 7	10 44	1 13	22 54	0 53	23 43	0 43	23 37	0 33	24 3	0 25	23 4	0 39	20 24	17 1	2 56		2 27		7 9			n.a.
M15	17 59	16 21	4 53	24 41	2 4	11 11	1 11	23 0	0 54	23 42	0 43	23 37	0 33	24 3	0 25	23 4	0 39	20 24	17 1	2 54		2 25		7 7			n.a.
T 16	18 15	13 42	4 20	24 47	2 1	11 38	1 9	23 6	0 54	23 41	0 43	23 36	0 33	24 2	0 25	23 4	0 39	20 24	17 2	2 54		2 24		7 6			n.a.
W17	18 30	10 14	3 31	24 52	1 56	12 4	1 8	23 12	0 54	23 40	0 43	23 36	0 33	24 2	0 25	23 4	0 39	20 24	17 2	2 53		2 23		7 4			n.a.
T 18	18 44	6 9	2 29	24 55	1 51	12 31	1 6	23 18	0 54	23 39	0 43	23 35	0 33	24 2	0 25	23 4	0 39	20 24	17 2	2 54		2 22		7 2			n.a.
F 19	18 59	1 42	1 17	24 56	1 45	12 57	1 4	23 24	0 55	23 38	0 43	23 35	0 34	24 2	0 25	23 4	0 39	20 24	17 3	2 54		2 20		7 0			n.a.
S 20	19 13	2n51	0 1	24 56	1 38	13 22	1 2	23 29	0 55	23 36	0 43	23 34	0 34	24 2	0 25	23 4	0 39	20 24	17 3	2 54		2 19		6 59			n.a.
S 21	19 27	7 14	1s15	24 54	1 31	13 48	1 0	23 34	0 55	23 35	0 43	23 33	0 34	24 2	0 25	23 4	0 39	20 24	17 3	2 54		2 18		6 57			n.a.
M22	19 40	11 10	2 26	24 50	1 23	14 13	0 58	23 39	0 56	23 34	0 43	23 33	0 34	24 2	0 25	23 4	0 39	20 24	17 4	2 53		2 17		6 55			n.a.
T 23	19 54	14 26	3 27	24 45	1 15	14 38	0 56	23 44	0 56	23 33	0 43	23 32	0 34	24 2	0 25	23 4	0 39	20 24	17 4	2 51		2 15		6 53			n.a.
W24	20 6	16 50	4 15	24 39	1 5	15 2	0 54	23 49	0 56	23 32	0 43	23 32	0 34	24 2	0 25	23 4	0 39	20 24	17 4	2 48		2 14		6 52			n.a.
T 25	20 19	18 15	4 47	24 32	0 56	15 26	0 52	23 54	0 57	23 30	0 43	23 31	0 34	24 1	0 25	23 4	0 39	20 24	17 5	2 45		2 13		6 50			n.a.
F 26	20 31	18 39	5 4	24 23	0 45	15 50	0 50	23 58	0 57	23 29	0 43	23 30	0 34	24 1	0 25	23 4	0 39	20 24	17 5	2 41		2 11		6 48			n.a.
S 27	20 43	18 4	5 4	24 14	0 34	16 13	0 47	24 2	0 57	23 28	0 43	23 30	0 34	24 1	0 25	23 4	0 39	20 24	17 5	2 38		2 10		6 46			n.a.
S 28	20 54	16 37	4 50	24 3	0 22	16 36	0 45	24 6	0 57	23 26	0 43	23 29	0 34	24 1	0 25	23 4	0 39	20 24	17 6	2 35		2 9		6 45			n.a.
M29	21 6	14 26	4 23	23 52	0 10	16 59	0 43	24 10	0 58	23 25	0 43	23 29	0 34	24 1	0 25	23 4	0 39	20 25	17 6	2 32		2 8		6 43			n.a.
T 30	21 16	11 39	3 45	23 40	0s 2	17 21	0 41	24 13	0 58	23 24	0 43	23 28	0 34	24 1	0 25	23 4	0 39	20 25	17 6	2 31		2 6		6 41			n.a.
W31	21n27	8n26	2s57	23n27	0s16	17n43	0s38	24n17	0n58	23n22	0n43	23n27	0n34	24n 1	0n25	23s 4	0n39	20s25	17s 7	2s31		2s 5		6n39			n.a.

Julian Day Number = 1668582.5, Delta T = 03h21m48s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'51, Lahiri = - 5°56'51 Julian Calendar 1 May 145 BCE == Greg. Calendar 28 Apr. 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

JUNE 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 25 29	6♊22'12	12♍59	29♊41	22♉41	20♊24	16♋52	14♋48	5♋22	0°R32	18♓ 5	6♎15	5♎ 8	7♍32	n.a.	T 1
F 2	16 29 26	7°19'18	24°50	0♋ 7	23°54	21° 2	17° 3	14°55	5°25	0♏30	18° 6	6°16	5° 5	7°38	n.a.	F 2
S 3	16 33 22	8°16'24	6♎49	0°28	25° 7	21°41	17°15	15° 2	5°29	0°29	18° 6	6°R16	5° 2	7°45	n.a.	S 3
S 4	16 37 19	9°13'30	18°59	0°45	26°21	22°19	17°26	15° 8	5°32	0°27	18° 6	6°16	4°59	7°52	n.a.	S 4
M 5	16 41 15	10°10'36	1♏25	0°57	27°34	22°57	17°38	15°15	5°35	0°26	18° 7	6°13	4°55	7°58	n.a.	M 5
T 6	16 45 12	11° 7'41	14°11	1° 5	28°47	23°36	17°50	15°22	5°39	0°24	18° 7	6° 8	4°52	8° 5	n.a.	T 6
W 7	16 49 8	12° 4'47	27°17	1°R 8	0♊ 1	24°14	18° 1	15°29	5°42	0°23	18° 7	6° 0	4°49	8°12	n.a.	W 7
T 8	16 53 5	13° 1'53	10♐43	1° 7	1°14	24°53	18°13	15°35	5°46	0°21	18° 8	5°51	4°46	8°18	n.a.	T 8
F 9	16 57 2	13°58'59	24°28	1° 0	2°28	25°31	18°25	15°42	5°49	0°20	18° 8	5°40	4°43	8°25	n.a.	F 9
S 10	17 0 58	14°56'05	8♑28	0°49	3°41	26° 9	18°37	15°49	5°53	0°18	18° 8	5°30	4°40	8°32	n.a.	S 10
S 11	17 4 55	15°53'12	22°38	0°34	4°54	26°48	18°49	15°56	5°56	0°17	18° 8	5°20	4°36	8°38	n.a.	S 11
M12	17 8 51	16°50'20	6♒53	0°14	6° 8	27°26	19° 1	16° 3	6° 0	0°15	18° 9	5°13	4°33	8°45	n.a.	M12
T 13	17 12 48	17°47'28	21°10	29♊50	7°21	28° 4	19°13	16°10	6° 3	0°13	18° 9	5° 8	4°30	8°52	n.a.	T 13
W14	17 16 44	18°44'36	5♓24	29°22	8°35	28°42	19°25	16°17	6° 7	0°12	18° 9	5° 6	4°27	8°58	n.a.	W14
T 15	17 20 41	19°41'45	19°34	28°50	9°48	29°21	19°37	16°24	6°10	0°10	18° 9	5°D 6	4°24	9° 5	n.a.	T 15
F 16	17 24 37	20°38'55	3♈38	28°16	11° 2	29°59	19°49	16°32	6°14	0° 9	18° 9	5°R 6	4°21	9°12	n.a.	F 16
S 17	17 28 34	21°36'06	17°36	27°39	12°16	0♋37	20° 1	16°39	6°17	0° 7	18° 9	5° 5	4°17	9°18	n.a.	S 17
S 18	17 32 31	22°33'18	1♉26	27° 0	13°29	1°16	20°14	16°46	6°21	0° 5	18° 9	5° 3	4°14	9°25	n.a.	S 18
M19	17 36 27	23°30'31	15° 8	26°19	14°43	1°54	20°26	16°53	6°25	0° 4	18° 9	4°59	4°11	9°32	n.a.	M19
T 20	17 40 24	24°27'44	28°41	25°38	15°57	2°32	20°38	17° 0	6°28	0° 2	18°10	4°51	4° 8	9°38	n.a.	T 20
W21	17 44 20	25°24'58	12♊ 3	24°57	17°10	3°10	20°51	17° 8	6°32	0° 1	18°R10	4°41	4° 5	9°45	n.a.	W21
T 22	17 48 17	26°22'13	25°11	24°17	18°24	3°49	21° 3	17°15	6°36	29♐59	18°10	4°29	4° 1	9°52	n.a.	T 22
F 23	17 52 13	27°19'29	8♋ 5	23°38	19°38	4°27	21°16	17°22	6°39	29°57	18° 9	4°16	3°58	9°58	n.a.	F 23
S 24	17 56 10	28°16'45	20°44	23° 2	20°51	5° 5	21°28	17°30	6°43	29°56	18° 9	4° 4	3°55	10° 5	n.a.	S 24
S 25	18 0 7	29°14'02	3♌ 7	22°28	22° 5	5°43	21°41	17°37	6°46	29°54	18° 9	3°53	3°52	10°12	n.a.	S 25
M26	18 4 3	0♋11'20	15°17	21°58	23°19	6°22	21°53	17°45	6°50	29°52	18° 9	3°44	3°49	10°18	n.a.	M26
T 27	18 8 0	1° 8'38	27°15	21°32	24°33	7° 0	22° 6	17°52	6°54	29°51	18° 9	3°38	3°46	10°25	n.a.	T 27
W28	18 11 56	2° 5'57	9♍ 6	21°10	25°47	7°38	22°19	18° 0	6°57	29°49	18° 9	3°35	3°42	10°32	n.a.	W28
T 29	18 15 53	3° 3'16	20°54	20°54	27° 1	8°16	22°31	18° 7	7° 1	29°48	18° 9	3°34	3°39	10°38	n.a.	T 29
F 30	18 19 49	4♋ 0'36	2♎45	20♊43	28♊14	8♋55	22♋44	18♋14	7♋ 5	29♐46	18♓ 9	3♎33	3♎36	10♍45	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n37	4n54	2s 1	23n13	0s29	18n 4	0s36	24n20	0n59	23n21	0n43	23n27	0n34	24n 0	0n25	23s 4	0n39	20s25	17s 7	2s31	2s 4	6n38		n.a.
F 2	21 47	1 9	1 1	22 59	0 44	18 25	0 34	24 23	0 59	23 19	0 43	23 26	0 34	24 0	0 25	23 4	0 39	20 25	17 7	2 31	2 3	6 36		n.a.
S 3	21 56	2s41	0n 3	22 44	0 58	18 45	0 32	24 26	0 59	23 18	0 43	23 25	0 34	24 0	0 25	23 4	0 39	20 25	17 8	2 31	2 1	6 34		n.a.
S 4	22 5	6 29	1 7	22 30	1 13	19 5	0 29	24 28	0 59	23 16	0 43	23 24	0 34	24 0	0 25	23 4	0 39	20 25	17 8	2 31	2 0	6 32		n.a.
M 5	22 14	10 4	2 10	22 14	1 28	19 24	0 27	24 31	1 0	23 15	0 43	23 24	0 34	24 0	0 24	23 4	0 39	20 26	17 9	2 30	1 59	6 30		n.a.
T 6	22 22	13 17	3 8	21 59	1 43	19 43	0 24	24 33	1 0	23 13	0 43	23 23	0 34	24 0	0 24	23 4	0 39	20 26	17 9	2 28	1 57	6 29		n.a.
W 7	22 30	15 56	3 57	21 44	1 59	20 1	0 22	24 35	1 0	23 12	0 43	23 22	0 34	24 0	0 24	23 4	0 39	20 26	17 9	2 25	1 56	6 27		n.a.
T 8	22 37	17 47	4 34	21 28	2 14	20 19	0 20	24 37	1 0	23 10	0 43	23 22	0 35	23 59	0 24	23 4	0 39	20 26	17 10	2 21	1 55	6 25		n.a.
F 9	22 44	18 39	4 57	21 13	2 29	20 36	0 17	24 38	1 1	23 9	0 43	23 21	0 35	23 59	0 24	23 4	0 39	20 26	17 10	2 17	1 54	6 23		n.a.
S 10	22 51	18 25	5 2	20 58	2 45	20 53	0 15	24 40	1 1	23 7	0 43	23 20	0 35	23 59	0 24	23 4	0 39	20 27	17 10	2 12	1 52	6 22		n.a.
S 11	22 57	17 2	4 49	20 43	2 59	21 9	0 12	24 41	1 1	23 5	0 43	23 19	0 35	23 59	0 25	23 4	0 39	20 27	17 11	2 9	1 51	6 20		n.a.
M12	23 3	14 36	4 18	20 29	3 14	21 25	0 10	24 42	1 1	23 4	0 43	23 18	0 35	23 59	0 25	23 4	0 39	20 27	17 11	2 6	1 50	6 18		n.a.
T 13	23 9	11 17	3 31	20 15	3 27	21 40	0 8	24 43	1 2	23 2	0 44	23 18	0 35	23 59	0 25	23 4	0 39	20 27	17 11	2 4	1 49	6 16		n.a.
W14	23 14	7 18	2 31	20 2	3 41	21 54	0 5	24 44	1 2	23 0	0 44	23 17	0 35	23 59	0 25	23 4	0 39	20 28	17 12	2 3	1 47	6 15		n.a.
T 15	23 18	2 56	1 21	19 50	3 53	22 8	0 3	24 44	1 2	22 59	0 44	23 16	0 35	23 58	0 25	23 4	0 39	20 28	17 12	2 3	1 46	6 13		n.a.
F 16	23 23	1n35	0 8	19 38	4 4	22 21	0 0	24 45	1 2	22 57	0 44	23 15	0 35	23 58	0 25	23 4	0 39	20 28	17 13	2 3	1 45	6 11		n.a.
S 17	23 26	5 58	1s 6	19 28	4 14	22 33	0n 2	24 45	1 2	22 55	0 44	23 14	0 35	23 58	0 25	23 4	0 39	20 29	17 13	2 3	1 43	6 9		n.a.
S 18	23 30	10 0	2 15	19 18	4 22	22 45	0 5	24 45	1 3	22 53	0 44	23 14	0 35	23 58	0 25	23 4	0 39	20 29	17 13	2 2	1 42	6 7		n.a.
M19	23 33	13 27	3 15	19 10	4 29	22 56	0 7	24 45	1 3	22 51	0 44	23 13	0 35	23 58	0 25	23 4	0 39	20 29	17 14	2 0	1 41	6 6		n.a.
T 20	23 36	16 8	4 4	19 3	4 35	23 7	0 9	24 44	1 3	22 49	0 44	23 12	0 35	23 57	0 25	23 4	0 39	20 29	17 14	1 57	1 40	6 4		n.a.
W21	23 38	17 54	4 38	18 58	4 39	23 17	0 12	24 44	1 3	22 48	0 44	23 11	0 35	23 57	0 25	23 4	0 39	20 30	17 14	1 53	1 38	6 2		n.a.
T 22	23 40	18 41	4 57	18 54	4 41	23 26	0 14	24 43	1 3	22 46	0 44	23 10	0 35	23 57	0 25	23 4	0 39	20 30	17 15	1 48	1 37	6 0		n.a.
F 23	23 41	18 28	5 0	18 52	4 42	23 34	0 16	24 42	1 4	22 44	0 44	23 9	0 35	23 57	0 25	23 4	0 39	20 30	17 15	1 43	1 36	5 59		n.a.
S 24	23 42	17 21	4 48	18 51	4 41	23 42	0 19	24 40	1 4	22 42	0 44	23 8	0 35	23 57	0 25	23 4	0 39	20 31	17 15	1 38	1 34	5 57		n.a.
S 25	23 42	15 25	4 23	18 52	4 38	23 49	0 21	24 39	1 4	22 40	0 44	23 7	0 36	23 57	0 25	23 4	0 39	20 31	17 16	1 34	1 33	5 55		n.a.
M26	23 43	12 50	3 46	18 54	4 34	23 56	0 23	24 37	1 4	22 38	0 44	23 6	0 36	23 56	0 25	23 4	0 39	20 32	17 16	1 30	1 32	5 53		n.a.
T 27	23 42	9 45	3 0	18 58	4 28	24 1	0 26	24 36	1 4	22 36	0 44	23 5	0 36	23 56	0 25	23 4	0 39	20 32	17 17	1 28	1 31	5 51		n.a.
W28	23 42	6 18	2 6	19 4	4 21	24 6	0 28	24 34	1 5	22 34	0 44	23 5	0 36	23 56	0 25	23 4	0 38	20 32	17 17	1 26	1 29	5 50		n.a.
T 29	23 40	2 38	1 7	19 12	4 12	24 11	0 30	24 32	1 5	22 32	0 44	23 4	0 36	23 56	0 25	23 4	0 38	20 33	17 17	1 26	1 28	5 48		n.a.
F 30	23n39	1s10	0s 4	19n21	4s 2	24n14	0n32	24n29	1n 5	22n30	0n44	23n 3	0n36	23n56	0n25	23s 4	0n38	20s33	17s18	1s26	1s27	5n46		n.a.

Julian Day Number = 1668613.5, Delta T = 03h21m47s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'47, Lahiri = - 5°56'46 Julian Calendar 1 June 145 BCE == Greg. Calendar 29 May 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

JULY 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 23 46	4♋57'57	14♎43	20°D37	29♊28	9♋33	22♋57	18♋22	7♋ 9	29°R44	18°R 8	3°R33	3♎33	10♍52	n.a.	S 1
S 2	18 27 42	5°55'19	26°54	20♊38	0♋42	10°11	23°10	18°30	7°12	29♐43	18♓ 8	3♎32	3°30	10°58	n.a.	S 2
M 3	18 31 39	6°52'41	9♏23	20°45	1°56	10°49	23°22	18°37	7°16	29°41	18° 8	3°29	3°27	11° 5	n.a.	M 3
T 4	18 35 36	7°50'04	22°14	20°59	3°10	11°27	23°35	18°45	7°20	29°40	18° 8	3°24	3°23	11°12	n.a.	T 4
W 5	18 39 32	8°47'28	5♐30	21°19	4°24	12° 6	23°48	18°52	7°23	29°38	18° 7	3°16	3°20	11°18	n.a.	W 5
T 6	18 43 29	9°44'53	19°11	21°45	5°38	12°44	24° 1	19° 0	7°27	29°36	18° 7	3° 6	3°17	11°25	n.a.	T 6
F 7	18 47 25	10°42'19	3♑16	22°18	6°52	13°22	24°14	19° 7	7°31	29°35	18° 7	2°55	3°14	11°32	n.a.	F 7
S 8	18 51 22	11°39'46	17°39	22°58	8° 6	14° 0	24°27	19°15	7°34	29°33	18° 7	2°43	3°11	11°38	n.a.	S 8
S 9	18 55 18	12°37'15	2♒15	23°44	9°20	14°38	24°40	19°23	7°38	29°32	18° 6	2°33	3° 7	11°45	n.a.	S 9
M10	18 59 15	13°34'44	16°55	24°36	10°34	15°17	24°53	19°30	7°42	29°30	18° 6	2°25	3° 4	11°51	n.a.	M10
T 11	19 3 11	14°32'15	1♓34	25°35	11°48	15°55	25° 6	19°38	7°45	29°28	18° 5	2°20	3° 1	11°58	n.a.	T 11
W12	19 7 8	15°29'48	16° 5	26°39	13° 2	16°33	25°19	19°46	7°49	29°27	18° 5	2°17	2°58	12° 5	n.a.	W12
T 13	19 11 5	16°27'22	0♈24	27°50	14°17	17°11	25°32	19°53	7°53	29°25	18° 4	2°D16	2°55	12°11	n.a.	T 13
F 14	19 15 1	17°24'58	14°29	29° 6	15°31	17°49	25°45	20° 1	7°56	29°24	18° 4	2°R17	2°52	12°18	n.a.	F 14
S 15	19 18 58	18°22'35	28°20	0♋28	16°45	18°28	25°58	20° 8	8° 0	29°22	18° 4	2°16	2°48	12°25	n.a.	S 15
S 16	19 22 54	19°20'14	11♉57	1°54	17°59	19° 6	26°11	20°16	8° 4	29°21	18° 3	2°14	2°45	12°31	n.a.	S 16
M17	19 26 51	20°17'55	25°22	3°26	19°13	19°44	26°24	20°24	8° 7	29°19	18° 3	2°10	2°42	12°38	n.a.	M17
T 18	19 30 47	21°15'38	8♊34	5° 2	20°28	20°22	26°37	20°31	8°11	29°18	18° 2	2° 3	2°39	12°45	n.a.	T 18
W19	19 34 44	22°13'22	21°34	6°42	21°42	21° 1	26°50	20°39	8°15	29°16	18° 1	1°54	2°36	12°51	n.a.	W19
T 20	19 38 40	23°11'08	4♋22	8°26	22°56	21°39	27° 3	20°47	8°18	29°15	18° 1	1°43	2°33	12°58	n.a.	T 20
F 21	19 42 37	24° 8'55	16°58	10°13	24°11	22°17	27°16	20°54	8°22	29°13	18° 0	1°31	2°29	13° 5	n.a.	F 21
S 22	19 46 34	25° 6'44	29°22	12° 3	25°25	22°55	27°29	21° 2	8°25	29°12	18° 0	1°19	2°26	13°11	n.a.	S 22
S 23	19 50 30	26° 4'35	11♌34	13°55	26°39	23°33	27°42	21°10	8°29	29°11	17°59	1° 9	2°23	13°18	n.a.	S 23
M24	19 54 27	27° 2'27	23°36	15°50	27°54	24°12	27°55	21°17	8°32	29° 9	17°58	1° 1	2°20	13°25	n.a.	M24
T 25	19 58 23	28° 0'20	5♍30	17°46	29° 8	24°50	28° 9	21°25	8°36	29° 8	17°58	0°55	2°17	13°31	n.a.	T 25
W26	20 2 20	28°58'15	17°18	19°43	0♌23	25°28	28°22	21°33	8°40	29° 6	17°57	0°52	2°13	13°38	n.a.	W26
T 27	20 6 16	29°56'11	29° 4	21°41	1°37	26° 6	28°35	21°40	8°43	29° 5	17°56	0°D51	2°10	13°45	n.a.	T 27
F 28	20 10 13	0♌54'09	10♎53	23°40	2°51	26°45	28°48	21°48	8°47	29° 4	17°56	0°51	2° 7	13°51	n.a.	F 28
S 29	20 14 9	1°52'08	22°50	25°39	4° 6	27°23	29° 1	21°55	8°50	29° 2	17°55	0°52	2° 4	13°58	n.a.	S 29
S 30	20 18 6	2°50'09	4♏59	27°38	5°20	28° 1	29°14	22° 3	8°53	29° 1	17°54	0°R52	2° 1	14° 5	n.a.	S 30
M31	20 22 3	3♌48'11	17♏27	29♋36	6♌35	28♋39	29♋27	22♋11	8♋57	29♐ 0	17♓53	0♎51	1♎58	14♍11	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n37	4s58	0n59	19n32	3s51	24n17	0n35	24n27	1n 5	22n28	0n44	23n 2	0n36	23n55	0n25	23s 4	0n38	20s33	17s18	1s26	1s26	5n44		n.a.
S 2	23 35	8 37	2 0	19 44	3 40	24 19	0 37	24 24	1 5	22 25	0 44	23 1	0 36	23 55	0 25	23 4	0 38	20 34	17 18	1 25	1 24	5 43		n.a.
M 3	23 32	11 59	2 58	19 57	3 27	24 21	0 39	24 21	1 6	22 23	0 44	23 0	0 36	23 55	0 25	23 4	0 38	20 34	17 19	1 24	1 23	5 41		n.a.
T 4	23 29	14 52	3 48	20 11	3 13	24 21	0 41	24 18	1 6	22 21	0 44	22 59	0 36	23 55	0 25	23 4	0 38	20 35	17 19	1 22	1 22	5 39		n.a.
W 5	23 25	17 5	4 27	20 27	2 59	24 21	0 43	24 15	1 6	22 19	0 44	22 58	0 36	23 55	0 25	23 4	0 38	20 35	17 19	1 19	1 20	5 37		n.a.
T 6	23 21	18 24	4 52	20 43	2 44	24 20	0 45	24 11	1 6	22 17	0 44	22 57	0 36	23 54	0 25	23 4	0 38	20 36	17 20	1 15	1 19	5 35		n.a.
F 7	23 16	18 39	5 1	21 0	2 29	24 19	0 47	24 8	1 6	22 14	0 44	22 56	0 36	23 54	0 25	23 4	0 38	20 36	17 20	1 10	1 18	5 34		n.a.
S 8	23 11	17 43	4 51	21 18	2 14	24 16	0 49	24 4	1 6	22 12	0 45	22 55	0 36	23 54	0 25	23 4	0 38	20 36	17 20	1 6	1 17	5 32		n.a.
S 9	23 6	15 38	4 22	21 35	1 58	24 13	0 51	24 0	1 7	22 10	0 45	22 54	0 37	23 54	0 25	23 4	0 38	20 37	17 21	1 2	1 15	5 30		n.a.
M10	23 1	12 31	3 36	21 53	1 43	24 10	0 53	23 56	1 7	22 8	0 45	22 53	0 37	23 54	0 25	23 4	0 38	20 37	17 21	0 58	1 14	5 28		n.a.
T 11	22 54	8 38	2 35	22 11	1 27	24 5	0 54	23 51	1 7	22 5	0 45	22 52	0 37	23 53	0 25	23 4	0 38	20 38	17 21	0 56	1 13	5 26		n.a.
W12	22 48	4 15	1 25	22 28	1 12	24 0	0 56	23 47	1 7	22 3	0 45	22 51	0 37	23 53	0 25	23 4	0 38	20 38	17 22	0 55	1 12	5 25		n.a.
T 13	22 41	0n19	0 10	22 45	0 57	23 54	0 58	23 42	1 7	22 1	0 45	22 50	0 37	23 53	0 25	23 4	0 38	20 39	17 22	0 55	1 10	5 23		n.a.
F 14	22 34	4 47	1s 4	23 0	0 42	23 47	1 0	23 37	1 7	21 58	0 45	22 48	0 37	23 53	0 25	23 4	0 38	20 39	17 22	0 55	1 9	5 21		n.a.
S 15	22 26	8 55	2 14	23 15	0 28	23 40	1 1	23 32	1 7	21 56	0 45	22 47	0 37	23 53	0 25	23 4	0 38	20 40	17 23	0 55	1 8	5 19		n.a.
S 16	22 18	12 31	3 14	23 28	0 14	23 32	1 3	23 27	1 8	21 53	0 45	22 46	0 37	23 52	0 25	23 4	0 38	20 40	17 23	0 54	1 6	5 17		n.a.
M17	22 9	15 23	4 3	23 39	0 0	23 23	1 4	23 21	1 8	21 51	0 45	22 45	0 37	23 52	0 25	23 4	0 38	20 41	17 23	0 52	1 5	5 16		n.a.
T 18	22 0	17 24	4 38	23 49	0n12	23 13	1 6	23 16	1 8	21 48	0 45	22 44	0 37	23 52	0 25	23 4	0 38	20 41	17 24	0 50	1 4	5 14		n.a.
W19	21 51	18 29	4 58	23 57	0 24	23 3	1 7	23 10	1 8	21 46	0 45	22 43	0 37	23 52	0 25	23 4	0 38	20 42	17 24	0 46	1 3	5 12		n.a.
T 20	21 42	18 36	5 2	24 2	0 36	22 52	1 9	23 4	1 8	21 43	0 45	22 42	0 37	23 52	0 25	23 4	0 38	20 42	17 24	0 41	1 1	5 10		n.a.
F 21	21 32	17 48	4 52	24 5	0 46	22 40	1 10	22 58	1 8	21 41	0 45	22 41	0 38	23 51	0 25	23 4	0 38	20 43	17 25	0 37	1 0	5 8		n.a.
S 22	21 21	16 9	4 28	24 5	0 56	22 28	1 11	22 52	1 8	21 38	0 45	22 40	0 38	23 51	0 25	23 4	0 38	20 43	17 25	0 32	0 59	5 7		n.a.
S 23	21 10	13 48	3 51	24 3	1 5	22 15	1 13	22 45	1 8	21 36	0 45	22 39	0 38	23 51	0 25	23 4	0 38	20 44	17 25	0 28	0 57	5 5		n.a.
M24	20 59	10 54	3 5	23 58	1 13	22 1	1 14	22 39	1 9	21 33	0 46	22 38	0 38	23 51	0 25	23 4	0 38	20 44	17 25	0 24	0 56	5 3		n.a.
T 25	20 48	7 34	2 11	23 50	1 20	21 47	1 15	22 32	1 9	21 31	0 46	22 36	0 38	23 50	0 25	23 4	0 38	20 45	17 26	0 22	0 55	5 1		n.a.
W26	20 36	3 58	1 12	23 40	1 26	21 32	1 16	22 25	1 9	21 28	0 46	22 35	0 38	23 50	0 25	23 4	0 38	20 45	17 26	0 21	0 54	4 59		n.a.
T 27	20 24	0 14	0 10	23 27	1 32	21 17	1 17	22 18	1 9	21 25	0 46	22 34	0 38	23 50	0 25	23 4	0 38	20 46	17 26	0 21	0 52	4 58		n.a.
F 28	20 11	3s32	0n54	23 11	1 36	21 0	1 18	22 10	1 9	21 23	0 46	22 33	0 38	23 50	0 25	23 4	0 38	20 47	17 27	0 21	0 51	4 56		n.a.
S 29	19 58	7 12	1 55	22 53	1 40	20 44	1 19	22 3	1 9	21 20	0 46	22 32	0 38	23 50	0 25	23 4	0 38	20 47	17 27	0 21	0 50	4 54		n.a.
S 30	19 45	10 37	2 53	22 33	1 43	20 26	1 20	21 55	1 9	21 17	0 46	22 31	0 38	23 49	0 25	23 4	0 38	20 48	17 27	0 21	0 49	4 52		n.a.
M31	19n31	13s39	3n44	22n11	1n45	20n 8	1n21	21n48	1n 9	21n15	0n46	22n30	0n38	23n49	0n25	23s 5	0n38	20s48	17s27	0s21	0s47	4n50		n.a.

Julian Day Number = 1668643.5, Delta T = 03h21m47s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'43, Lahiri = - 5°56'42 Julian Calendar 1 July 145 BCE == Greg. Calendar 28 June 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

AUGUST 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 25 59	4♌46'15	0♐17	1♌34	7♌49	29♋17	29♋40	22♋18	9♋ 0	28°R59	17°R52	0°R48	1♎54	14♍18	n.a.	T 1
W 2	20 29 56	5°44'20	13°34	3°32	9° 4	29°56	29°53	22°26	9° 4	28♐57	17♓52	0♎43	1°51	14°25	n.a.	W 2
T 3	20 33 52	6°42'27	27°19	5°29	10°18	0♌34	0♌ 6	22°33	9° 7	28°56	17°51	0°37	1°48	14°31	n.a.	T 3
F 4	20 37 49	7°40'35	11♑31	7°25	11°33	1°12	0°19	22°41	9°10	28°55	17°50	0°29	1°45	14°38	n.a.	F 4
S 5	20 41 45	8°38'45	26° 7	9°20	12°48	1°50	0°32	22°48	9°14	28°54	17°49	0°20	1°42	14°44	n.a.	S 5
S 6	20 45 42	9°36'57	11♒ 0	11°15	14° 2	2°29	0°46	22°56	9°17	28°53	17°48	0°13	1°39	14°51	n.a.	S 6
M 7	20 49 38	10°35'11	26° 2	13° 8	15°17	3° 7	0°59	23° 3	9°20	28°52	17°47	0° 7	1°35	14°58	n.a.	M 7
T 8	20 53 35	11°33'27	11♓ 3	15° 0	16°31	3°45	1°12	23°10	9°24	28°51	17°46	0° 4	1°32	15° 4	n.a.	T 8
W 9	20 57 31	12°31'44	25°54	16°51	17°46	4°24	1°25	23°18	9°27	28°49	17°46	0°D 2	1°29	15°11	n.a.	W 9
T 10	21 1 28	13°30'04	10♈30	18°41	19° 1	5° 2	1°37	23°25	9°30	28°48	17°45	0° 3	1°26	15°18	n.a.	T 10
F 11	21 5 25	14°28'26	24°47	20°30	20°15	5°40	1°50	23°32	9°33	28°47	17°44	0° 4	1°23	15°24	n.a.	F 11
S 12	21 9 21	15°26'51	8♉43	22°17	21°30	6°18	2° 3	23°40	9°37	28°46	17°43	0° 5	1°19	15°31	n.a.	S 12
S 13	21 13 18	16°25'17	22°19	24° 4	22°45	6°57	2°16	23°47	9°40	28°45	17°42	0°R 5	1°16	15°38	n.a.	S 13
M14	21 17 14	17°23'46	5♊36	25°49	23°59	7°35	2°29	23°54	9°43	28°44	17°41	0° 3	1°13	15°44	n.a.	M14
T 15	21 21 11	18°22'17	18°35	27°34	25°14	8°13	2°42	24° 2	9°46	28°44	17°40	29♍59	1°10	15°51	n.a.	T 15
W16	21 25 7	19°20'51	1♋19	29°17	26°29	8°52	2°55	24° 9	9°49	28°43	17°39	29°55	1° 7	15°58	n.a.	W16
T 17	21 29 4	20°19'27	13°50	0♍59	27°43	9°30	3° 8	24°16	9°52	28°42	17°38	29°48	1° 4	16° 4	n.a.	T 17
F 18	21 33 0	21°18'05	26°10	2°40	28°58	10° 9	3°20	24°23	9°55	28°41	17°37	29°41	1° 0	16°11	n.a.	F 18
S 19	21 36 57	22°16'45	8♌19	4°20	0♍13	10°47	3°33	24°30	9°58	28°40	17°36	29°34	0°57	16°18	n.a.	S 19
S 20	21 40 54	23°15'27	20°21	5°59	1°28	11°25	3°46	24°37	10° 1	28°39	17°35	29°28	0°54	16°24	n.a.	S 20
M21	21 44 50	24°14'11	2♍15	7°37	2°42	12° 4	3°59	24°44	10° 4	28°39	17°34	29°23	0°51	16°31	n.a.	M21
T 22	21 48 47	25°12'57	14° 4	9°14	3°57	12°42	4°11	24°51	10° 7	28°38	17°33	29°20	0°48	16°38	n.a.	T 22
W23	21 52 43	26°11'45	25°51	10°50	5°12	13°20	4°24	24°58	10° 9	28°37	17°32	29°D19	0°44	16°44	n.a.	W23
T 24	21 56 40	27°10'35	7♎37	12°25	6°27	13°59	4°36	25° 5	10°12	28°37	17°31	29°19	0°41	16°51	n.a.	T 24
F 25	22 0 36	28° 9'27	19°27	13°59	7°41	14°37	4°49	25°12	10°15	28°36	17°29	29°21	0°38	16°57	n.a.	F 25
S 26	22 4 33	29° 8'21	1♏24	15°33	8°56	15°16	5° 2	25°19	10°18	28°35	17°28	29°23	0°35	17° 4	n.a.	S 26
S 27	22 8 29	0♍ 7'17	13°33	17° 5	10°11	15°54	5°14	25°26	10°20	28°35	17°27	29°24	0°32	17°11	n.a.	S 27
M28	22 12 26	1° 6'15	25°58	18°36	11°26	16°33	5°26	25°32	10°23	28°34	17°26	29°R25	0°29	17°17	n.a.	M28
T 29	22 16 22	2° 5'15	8♐44	20° 6	12°41	17°11	5°39	25°39	10°26	28°34	17°25	29°25	0°25	17°24	n.a.	T 29
W30	22 20 19	3° 4'16	21°55	21°36	13°55	17°50	5°51	25°46	10°28	28°33	17°24	29°24	0°22	17°31	n.a.	W30
T 31	22 24 16	4♍ 3'20	5♑34	23♍ 4	15♍10	18♌28	6♌ 3	25♋52	10♋31	28♐33	17♓23	29♍21	0♎19	17♍37	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	19n17	16s 8	4n25	21n46	1n47	19n50	1n21	21n40	1n 9	21n12	0n46	22n29	0n39	23n49	0n25	23s 5	0n38	20s49	17s28	0s19	0s46	4n49			n.a.
W 2	19 3	17 50	4 53	21 19	1 47	19 30	1 22	21 32	1 10	21 9	0 46	22 27	0 39	23 49	0 25	23 5	0 38	20 49	17 28	0 17	0 45	4 47			n.a.
T 3	18 48	18 35	5 6	20 51	1 47	19 11	1 23	21 23	1 10	21 7	0 46	22 26	0 39	23 48	0 25	23 5	0 38	20 50	17 28	0 15	0 43	4 45			n.a.
F 4	18 33	18 12	5 1	20 21	1 47	18 51	1 23	21 15	1 10	21 4	0 46	22 25	0 39	23 48	0 25	23 5	0 38	20 50	17 28	0 11	0 42	4 43			n.a.
S 5	18 18	16 38	4 37	19 49	1 46	18 30	1 24	21 6	1 10	21 1	0 47	22 24	0 39	23 48	0 25	23 5	0 38	20 51	17 29	0 8	0 41	4 41			n.a.
S 6	18 3	13 56	3 53	19 16	1 44	18 8	1 24	20 58	1 10	20 58	0 47	22 23	0 39	23 48	0 25	23 5	0 38	20 52	17 29	0 5	0 40	4 40			n.a.
M 7	17 47	10 16	2 53	18 41	1 42	17 47	1 24	20 49	1 10	20 56	0 47	22 22	0 39	23 48	0 25	23 5	0 38	20 52	17 29	0 3	0 38	4 38			n.a.
T 8	17 31	5 57	1 41	18 6	1 39	17 24	1 25	20 40	1 10	20 53	0 47	22 20	0 39	23 47	0 25	23 5	0 38	20 53	17 29	0 2	0 37	4 36			n.a.
W 9	17 14	1 18	0 22	17 29	1 36	17 1	1 25	20 31	1 10	20 50	0 47	22 19	0 39	23 47	0 25	23 5	0 38	20 53	17 30	0 1	0 36	4 34			n.a.
T 10	16 57	3n21	0s56	16 52	1 33	16 38	1 25	20 21	1 10	20 47	0 47	22 18	0 40	23 47	0 25	23 5	0 38	20 54	17 30	0 1	0 34	4 32			n.a.
F 11	16 40	7 42	2 10	16 13	1 29	16 14	1 25	20 12	1 10	20 44	0 47	22 17	0 40	23 47	0 25	23 5	0 38	20 54	17 30	0 2	0 33	4 31			n.a.
S 12	16 23	11 30	3 14	15 34	1 24	15 50	1 25	20 2	1 10	20 42	0 47	22 16	0 40	23 47	0 25	23 5	0 38	20 55	17 30	0 2	0 32	4 29			n.a.
S 13	16 6	14 36	4 6	14 54	1 20	15 26	1 25	19 53	1 10	20 39	0 47	22 15	0 40	23 46	0 25	23 5	0 38	20 55	17 30	0 2	0 31	4 27			n.a.
M14	15 48	16 51	4 42	14 14	1 15	15 0	1 25	19 43	1 10	20 36	0 47	22 13	0 40	23 46	0 25	23 5	0 37	20 56	17 31	0 1	0 29	4 25			n.a.
T 15	15 30	18 10	5 4	13 33	1 9	14 35	1 25	19 33	1 11	20 33	0 48	22 12	0 40	23 46	0 25	23 5	0 37	20 57	17 31	0n 0	0 28	4 23			n.a.
W16	15 11	18 32	5 10	12 51	1 4	14 9	1 24	19 23	1 11	20 30	0 48	22 11	0 40	23 46	0 25	23 5	0 37	20 57	17 31	0 2	0 27	4 21			n.a.
T 17	14 53	18 0	5 1	12 9	0 58	13 43	1 24	19 13	1 11	20 27	0 48	22 10	0 40	23 46	0 25	23 5	0 37	20 58	17 31	0 5	0 26	4 20			n.a.
F 18	14 34	16 36	4 38	11 27	0 52	13 16	1 24	19 2	1 11	20 24	0 48	22 9	0 40	23 45	0 25	23 5	0 37	20 58	17 31	0 8	0 24	4 18			n.a.
S 19	14 15	14 29	4 3	10 45	0 46	12 49	1 23	18 52	1 11	20 21	0 48	22 8	0 41	23 45	0 25	23 5	0 37	20 59	17 31	0 10	0 23	4 16			n.a.
S 20	13 55	11 46	3 17	10 2	0 40	12 22	1 23	18 41	1 11	20 18	0 48	22 6	0 41	23 45	0 25	23 5	0 37	20 59	17 32	0 13	0 22	4 14			n.a.
M21	13 36	8 34	2 23	9 19	0 33	11 54	1 22	18 30	1 11	20 16	0 48	22 5	0 41	23 45	0 25	23 5	0 37	21 0	17 32	0 15	0 20	4 12			n.a.
T 22	13 16	5 4	1 23	8 36	0 26	11 26	1 22	18 19	1 11	20 13	0 48	22 4	0 41	23 45	0 25	23 5	0 37	21 1	17 32	0 16	0 19	4 11			n.a.
W23	12 56	1 23	0 19	7 53	0 20	10 58	1 21	18 8	1 11	20 10	0 48	22 3	0 41	23 44	0 25	23 5	0 37	21 1	17 32	0 16	0 18	4 9			n.a.
T 24	12 35	2s22	0n45	7 10	0 13	10 29	1 20	17 57	1 11	20 7	0 49	22 2	0 41	23 44	0 25	23 5	0 37	21 2	17 32	0 16	0 17	4 7			n.a.
F 25	12 15	6 2	1 48	6 27	0 6	10 0	1 19	17 46	1 11	20 4	0 49	22 1	0 41	23 44	0 25	23 5	0 37	21 2	17 32	0 16	0 15	4 5			n.a.
S 26	11 54	9 29	2 47	5 44	0s 2	9 31	1 18	17 34	1 11	20 1	0 49	22 0	0 41	23 44	0 26	23 5	0 37	21 3	17 32	0 15	0 14	4 3			n.a.
S 27	11 33	12 36	3 40	5 1	0 9	9 2	1 17	17 23	1 11	19 58	0 49	21 58	0 41	23 44	0 26	23 5	0 37	21 3	17 33	0 14	0 13	4 1			n.a.
M28	11 12	15 12	4 23	4 19	0 16	8 32	1 16	17 11	1 11	19 55	0 49	21 57	0 42	23 43	0 26	23 5	0 37	21 4	17 33	0 14	0 11	4 0			n.a.
T 29	10 51	17 9	4 55	3 36	0 23	8 2	1 15	16 59	1 11	19 52	0 49	21 56	0 42	23 43	0 26	23 5	0 37	21 4	17 33	0 14	0 10	3 58			n.a.
W30	10 30	18 16	5 12	2 54	0 31	7 32	1 14	16 47	1 11	19 49	0 49	21 55	0 42	23 43	0 26	23 5	0 37	21 5	17 33	0 15	0 9	3 56			n.a.
T 31	10n 8	18s23	5n13	2n12	0s38	7n 2	1n13	16n35	1n11	19n46	0n50	21n54	0n42	23n43	0n26	23s 5	0n37	21s 5	17s33	0n15	0s 8	3n54			n.a.

Julian Day Number = 1668674.5, Delta T = 03h21m46s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'38, Lahiri = - 5°56'38 Julian Calendar 1 Aug. 145 BCE == Greg. Calendar 29 July 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

SEPTEMBER 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 28 12	5♍ 2'25	19♉41	24♍32	16♍25	19♌ 6	6♌16	25♋59	10♋33	28°R32	17°R22	29°R18	0♎16	17♍44	n.a.	F 1
S 2	22 32 9	6° 1'32	4♒15	25°58	17°40	19°45	6°28	26° 5	10°36	28♐32	17♓20	29♍15	0°13	17°51	n.a.	S 2
S 3	22 36 5	7° 0'41	19°10	27°24	18°55	20°23	6°40	26°12	10°38	28°32	17°19	29°12	0°10	17°57	n.a.	S 3
M 4	22 40 2	7°59'52	4♓19	28°48	20° 9	21° 2	6°52	26°18	10°41	28°31	17°18	29°10	0° 6	18° 4	n.a.	M 4
T 5	22 43 58	8°59'05	19°33	0♎12	21°24	21°40	7° 4	26°24	10°43	28°31	17°17	29° 9	0° 3	18°11	n.a.	T 5
W 6	22 47 55	9°58'20	4♈41	1°34	22°39	22°19	7°16	26°31	10°45	28°31	17°16	29°D 9	29♍59	18°17	n.a.	W 6
T 7	22 51 51	10°57'38	19°35	2°56	23°54	22°58	7°28	26°37	10°48	28°30	17°15	29° 9	29°57	18°24	n.a.	T 7
F 8	22 55 48	11°56'58	4♉ 9	4°16	25° 9	23°36	7°40	26°43	10°50	28°30	17°14	29°10	29°54	18°31	n.a.	F 8
S 9	22 59 45	12°56'20	18°18	5°35	26°23	24°15	7°52	26°49	10°52	28°30	17°12	29°12	29°50	18°37	n.a.	S 9
S 10	23 3 41	13°55'45	2♊ 2	6°53	27°38	24°53	8° 4	26°55	10°54	28°30	17°11	29°13	29°47	18°44	n.a.	S 10
M11	23 7 38	14°55'13	15°20	8°10	28°53	25°32	8°15	27° 1	10°56	28°30	17°10	29°R13	29°44	18°51	n.a.	M11
T 12	23 11 34	15°54'43	28°16	9°25	0♎ 8	26°10	8°27	27° 7	10°58	28°30	17° 9	29°13	29°41	18°57	n.a.	T 12
W13	23 15 31	16°54'15	10♋53	10°38	1°23	26°49	8°39	27°13	11° 0	28°D30	17° 8	29°12	29°38	19° 4	n.a.	W13
T 14	23 19 27	17°53'49	23°14	11°50	2°38	27°28	8°50	27°19	11° 2	28°30	17° 7	29°10	29°35	19°10	n.a.	T 14
F 15	23 23 24	18°53'26	5♌23	13° 1	3°52	28° 6	9° 2	27°24	11° 4	28°30	17° 5	29° 9	29°31	19°17	n.a.	F 15
S 16	23 27 20	19°53'05	17°22	14° 9	5° 7	28°45	9°13	27°30	11° 6	28°30	17° 4	29° 7	29°28	19°24	n.a.	S 16
S 17	23 31 17	20°52'47	29°15	15°16	6°22	29°24	9°24	27°36	11° 8	28°30	17° 3	29° 6	29°25	19°30	n.a.	S 17
M18	23 35 14	21°52'30	11♍ 4	16°20	7°37	0♍ 2	9°35	27°41	11°10	28°30	17° 2	29° 5	29°22	19°37	n.a.	M18
T 19	23 39 10	22°52'16	22°51	17°21	8°52	0°41	9°47	27°47	11°11	28°30	17° 1	29° 5	29°19	19°44	n.a.	T 19
W20	23 43 7	23°52'04	4♎39	18°20	10° 7	1°20	9°58	27°52	11°13	28°31	17° 0	29°D 5	29°15	19°50	n.a.	W20
T 21	23 47 3	24°51'53	16°29	19°16	11°21	1°59	10° 9	27°57	11°15	28°31	16°58	29° 5	29°12	19°57	n.a.	T 21
F 22	23 51 0	25°51'45	28°25	20° 9	12°36	2°37	10°20	28° 3	11°16	28°31	16°57	29° 5	29° 9	20° 4	n.a.	F 22
S 23	23 54 56	26°51'39	10♏28	20°58	13°51	3°16	10°31	28° 8	11°18	28°31	16°56	29° 6	29° 6	20°10	n.a.	S 23
S 24	23 58 53	27°51'35	22°42	21°43	15° 6	3°55	10°41	28°13	11°19	28°32	16°55	29° 6	29° 3	20°17	n.a.	S 24
M25	0 2 49	28°51'32	5♐10	22°24	16°21	4°34	10°52	28°18	11°20	28°32	16°54	29°R 6	29° 0	20°24	n.a.	M25
T 26	0 6 46	29°51'31	17°55	23° 0	17°36	5°12	11° 3	28°23	11°22	28°33	16°53	29° 6	28°56	20°30	n.a.	T 26
W27	0 10 42	0♎51'32	1♑ 1	23°30	18°50	5°51	11°13	28°28	11°23	28°33	16°52	29°D 6	28°53	20°37	n.a.	W27
T 28	0 14 39	1°51'35	14°30	23°55	20° 5	6°30	11°24	28°32	11°24	28°33	16°50	29° 6	28°50	20°44	n.a.	T 28
F 29	0 18 36	2°51'39	28°24	24°12	21°20	7° 9	11°34	28°37	11°26	28°34	16°49	29° 6	28°47	20°50	n.a.	F 29
S 30	0 22 32	3♎51'45	12♒43	24♎23	22♎35	7♍48	11♌44	28♋42	11♋27	28♐35	16♓48	29♍ 7	28♍44	20♍57	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n46	17s23	4n55	1n30	0s46	6n31	1n12	16n23	1n11	19n43	0n50	21n53	0n42	23n43	0n26	23s 5	0n37	21s 6	17s33	0n17	0s 6	3n52		n.a.
S 2	9 24	15 14	4 18	0 48	0 53	6 0	1 10	16 11	1 11	19 40	0 50	21 52	0 42	23 43	0 26	23 5	0 37	21 7	17 33	0 18	0 5	3 50		n.a.
S 3	9 2	12 2	3 23	0 7	1 1	5 30	1 9	15 59	1 11	19 37	0 50	21 51	0 42	23 42	0 26	23 5	0 37	21 7	17 33	0 19	0 4	3 49		n.a.
M 4	8 40	7 58	2 13	0s34	1 8	4 59	1 8	15 46	1 11	19 34	0 50	21 50	0 43	23 42	0 26	23 5	0 37	21 8	17 33	0 20	0 3	3 47		n.a.
T 5	8 17	3 22	0 53	1 14	1 15	4 27	1 6	15 34	1 11	19 31	0 50	21 48	0 43	23 42	0 26	23 5	0 37	21 8	17 33	0 21	0 1	3 45		n.a.
W 6	7 55	1n25	0s31	1 54	1 23	3 56	1 5	15 21	1 11	19 28	0 50	21 47	0 43	23 42	0 26	23 5	0 37	21 9	17 33	0 21	0n 0	3 43		n.a.
T 7	7 32	6 2	1 51	2 33	1 30	3 25	1 3	15 8	1 11	19 25	0 50	21 46	0 43	23 42	0 26	23 5	0 37	21 9	17 33	0 20	0 1	3 41		n.a.
F 8	7 9	10 12	3 2	3 12	1 37	2 53	1 1	14 55	1 11	19 23	0 51	21 45	0 43	23 42	0 26	23 5	0 37	21 10	17 33	0 20	0 3	3 40		n.a.
S 9	6 47	13 38	4 0	3 50	1 44	2 22	1 0	14 42	1 11	19 20	0 51	21 44	0 43	23 41	0 26	23 5	0 37	21 10	17 33	0 19	0 4	3 38		n.a.
S 10	6 23	16 11	4 42	4 28	1 51	1 50	0 58	14 29	1 11	19 17	0 51	21 43	0 43	23 41	0 26	23 5	0 37	21 11	17 34	0 19	0 5	3 36		n.a.
M11	6 0	17 47	5 8	5 5	1 58	1 18	0 56	14 16	1 11	19 14	0 51	21 42	0 43	23 41	0 26	23 5	0 37	21 11	17 34	0 19	0 6	3 34		n.a.
T 12	5 37	18 25	5 17	5 41	2 5	0 47	0 54	14 3	1 11	19 11	0 51	21 41	0 44	23 41	0 26	23 5	0 37	21 12	17 34	0 19	0 8	3 32		n.a.
W13	5 14	18 6	5 11	6 16	2 11	0 15	0 52	13 49	1 11	19 8	0 51	21 40	0 44	23 41	0 26	23 6	0 37	21 12	17 34	0 19	0 9	3 30		n.a.
T 14	4 50	16 55	4 50	6 50	2 18	0s17	0 51	13 36	1 11	19 5	0 52	21 39	0 44	23 41	0 26	23 6	0 37	21 12	17 34	0 20	0 10	3 29		n.a.
F 15	4 27	15 0	4 16	7 24	2 24	0 49	0 49	13 22	1 11	19 2	0 52	21 38	0 44	23 41	0 26	23 6	0 37	21 13	17 34	0 21	0 12	3 27		n.a.
S 16	4 3	12 27	3 32	7 56	2 29	1 21	0 47	13 9	1 11	18 59	0 52	21 37	0 44	23 40	0 26	23 6	0 36	21 13	17 34	0 21	0 13	3 25		n.a.
S 17	3 39	9 24	2 38	8 27	2 35	1 53	0 44	12 55	1 11	18 56	0 52	21 36	0 44	23 40	0 26	23 6	0 36	21 14	17 34	0 22	0 14	3 23		n.a.
M18	3 15	5 59	1 39	8 57	2 40	2 24	0 42	12 41	1 11	18 53	0 52	21 35	0 44	23 40	0 26	23 6	0 36	21 14	17 33	0 22	0 15	3 21		n.a.
T 19	2 52	2 20	0 35	9 26	2 45	2 56	0 40	12 27	1 11	18 50	0 52	21 34	0 45	23 40	0 26	23 6	0 36	21 15	17 33	0 22	0 17	3 19		n.a.
W20	2 28	1s24	0n31	9 53	2 50	3 28	0 38	12 13	1 11	18 48	0 53	21 33	0 45	23 40	0 26	23 6	0 36	21 15	17 33	0 22	0 18	3 18		n.a.
T 21	2 4	5 5	1 35	10 18	2 54	4 0	0 36	11 59	1 11	18 45	0 53	21 32	0 45	23 40	0 26	23 6	0 36	21 16	17 33	0 22	0 19	3 16		n.a.
F 22	1 40	8 36	2 36	10 42	2 57	4 31	0 34	11 45	1 11	18 42	0 53	21 31	0 45	23 40	0 26	23 6	0 36	21 16	17 33	0 22	0 20	3 14		n.a.
S 23	1 16	11 48	3 31	11 3	3 0	5 3	0 31	11 31	1 11	18 39	0 53	21 30	0 45	23 40	0 26	23 6	0 36	21 16	17 33	0 22	0 22	3 12		n.a.
S 24	0 52	14 31	4 16	11 23	3 3	5 34	0 29	11 17	1 11	18 36	0 53	21 30	0 45	23 40	0 26	23 6	0 36	21 17	17 33	0 22	0 23	3 10		n.a.
M25	0 28	16 38	4 51	11 40	3 4	6 5	0 27	11 2	1 11	18 34	0 53	21 29	0 46	23 39	0 26	23 6	0 36	21 17	17 33	0 22	0 24	3 8		n.a.
T 26	0 3	17 58	5 12	11 54	3 5	6 36	0 24	10 48	1 10	18 31	0 54	21 28	0 46	23 39	0 26	23 6	0 36	21 18	17 33	0 22	0 26	3 7		n.a.
W27	0s21	18 24	5 18	12 5	3 5	7 7	0 22	10 33	1 10	18 28	0 54	21 27	0 46	23 39	0 26	23 6	0 36	21 18	17 33	0 22	0 27	3 5		n.a.
T 28	0 45	17 50	5 7	12 14	3 4	7 38	0 19	10 19	1 10	18 25	0 54	21 26	0 46	23 39	0 26	23 6	0 36	21 18	17 33	0 22	0 28	3 3		n.a.
F 29	1 9	16 11	4 38	12 19	3 2	8 9	0 17	10 4	1 10	18 23	0 54	21 25	0 46	23 39	0 27	23 6	0 36	21 19	17 33	0 22	0 29	3 1		n.a.
S 30	1s33	13s30	3n51	12s20	2s59	8s39	0n14	9n50	1n10	18n20	0n54	21n25	0n46	23n39	0n27	23s 6	0n36	21s19	17s33	0n21	0n31	2n59		n.a.

Julian Day Number = 1668705.5, Delta T = 03h21m45s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'34, Lahiri = - 5°56'34 Julian Calendar 1 Sept. 145 BCE == Greg. Calendar 29 Aug. 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

OCTOBER 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 26 29	4♎51'53	27♒24	24°R26	23♎49	8♍26	11♌54	28♋46	11♋28	28♐35	16°R47	29♍ 7	28♍41	21♍ 3	n.a.	S 1
M 2	0 30 25	5°52'02	12♓23	24♎20	25° 4	9° 5	12° 4	28°51	11°29	28°36	16♓46	29° 8	28°37	21°10	n.a.	M 2
T 3	0 34 22	6°52'13	27°33	24° 5	26°19	9°44	12°14	28°55	11°30	28°36	16°45	29°R 8	28°34	21°17	n.a.	T 3
W 4	0 38 18	7°52'26	12♈43	23°41	27°34	10°23	12°24	28°59	11°31	28°37	16°44	29° 8	28°31	21°23	n.a.	W 4
T 5	0 42 15	8°52'41	27°45	23° 8	28°48	11° 2	12°34	29° 3	11°32	28°38	16°43	29° 7	28°28	21°30	n.a.	T 5
F 6	0 46 11	9°52'58	12♉31	22°25	0♏ 3	11°41	12°44	29° 8	11°33	28°38	16°42	29° 6	28°25	21°37	n.a.	F 6
S 7	0 50 8	10°53'17	26°53	21°32	1°18	12°20	12°53	29°12	11°33	28°39	16°41	29° 4	28°21	21°43	n.a.	S 7
S 8	0 54 4	11°53'38	10♊48	20°31	2°33	12°59	13° 3	29°15	11°34	28°40	16°40	29° 3	28°18	21°50	n.a.	S 8
M 9	0 58 1	12°54'01	24°16	19°22	3°47	13°38	13°12	29°19	11°35	28°41	16°39	29° 2	28°15	21°57	n.a.	M 9
T 10	1 1 58	13°54'26	7♋17	18° 7	5° 2	14°16	13°21	29°23	11°35	28°42	16°38	29° 1	28°12	22° 3	n.a.	T 10
W11	1 5 54	14°54'53	19°54	16°49	6°17	14°55	13°30	29°27	11°36	28°43	16°37	29°D 1	28° 9	22°10	n.a.	W11
T 12	1 9 51	15°55'22	2♌13	15°29	7°31	15°34	13°39	29°30	11°36	28°44	16°36	29° 2	28° 6	22°17	n.a.	T 12
F 13	1 13 47	16°55'53	14°17	14°10	8°46	16°13	13°48	29°34	11°37	28°45	16°35	29° 3	28° 2	22°23	n.a.	F 13
S 14	1 17 44	17°56'26	26°11	12°55	10° 1	16°52	13°57	29°37	11°37	28°46	16°34	29° 4	27°59	22°30	n.a.	S 14
S 15	1 21 40	18°57'01	7♍59	11°46	11°16	17°32	14° 6	29°40	11°38	28°47	16°33	29° 6	27°56	22°36	n.a.	S 15
M16	1 25 37	19°57'38	19°46	10°45	12°30	18°11	14°14	29°43	11°38	28°48	16°32	29° 7	27°53	22°43	n.a.	M16
T 17	1 29 33	20°58'16	1♎34	9°54	13°45	18°50	14°23	29°47	11°38	28°49	16°31	29°R 7	27°50	22°50	n.a.	T 17
W18	1 33 30	21°58'56	13°26	9°14	15° 0	19°29	14°31	29°49	11°38	28°50	16°30	29° 7	27°47	22°56	n.a.	W18
T 19	1 37 27	22°59'38	25°24	8°45	16°14	20° 8	14°39	29°52	11°38	28°51	16°29	29° 5	27°43	23° 3	n.a.	T 19
F 20	1 41 23	24° 0'21	7♏31	8°28	17°29	20°47	14°47	29°55	11°38	28°52	16°28	29° 1	27°40	23°10	n.a.	F 20
S 21	1 45 20	25° 1'05	19°47	8°D23	18°43	21°26	14°55	29°58	11°R38	28°53	16°27	28°57	27°37	23°16	n.a.	S 21
S 22	1 49 16	26° 1'51	2♐15	8°28	19°58	22° 5	15° 3	0♌ 0	11°38	28°55	16°26	28°52	27°34	23°23	n.a.	S 22
M23	1 53 13	27° 2'39	14°54	8°44	21°13	22°44	15°11	0° 3	11°38	28°56	16°25	28°48	27°31	23°30	n.a.	M23
T 24	1 57 9	28° 3'27	27°48	9°10	22°27	23°23	15°18	0° 5	11°38	28°57	16°25	28°44	27°27	23°36	n.a.	T 24
W25	2 1 6	29° 4'17	10♑56	9°44	23°42	24° 3	15°25	0° 7	11°38	28°59	16°24	28°41	27°24	23°43	n.a.	W25
T 26	2 5 2	0♏ 5'08	24°22	10°26	24°57	24°42	15°33	0° 9	11°38	29° 0	16°23	28°D39	27°21	23°50	n.a.	T 26
F 27	2 8 59	1° 6'00	8♒ 5	11°14	26°11	25°21	15°40	0°11	11°37	29° 1	16°22	28°40	27°18	23°56	n.a.	F 27
S 28	2 12 56	2° 6'52	22° 7	12° 9	27°26	26° 0	15°47	0°13	11°37	29° 3	16°21	28°41	27°15	24° 3	n.a.	S 28
S 29	2 16 52	3° 7'46	6♓28	13° 9	28°40	26°39	15°54	0°15	11°37	29° 4	16°21	28°42	27°12	24°10	n.a.	S 29
M30	2 20 49	4° 8'40	21° 4	14°13	29°55	27°19	16° 0	0°17	11°36	29° 6	16°20	28°43	27° 8	24°16	n.a.	M30
T 31	2 24 45	5♏ 9'36	5♈53	15♎21	1♐ 9	27♍58	16♌ 7	0♌18	11♋36	29♐ 7	16♓19	28°R43	27♍ 5	24♍23	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	1s57	9s53	2n48	12s17	2s55	9s10	0n12	9n35	1n10	18n17	0n55	21n24	0n47	23n39	0n27	23s 6	0n36	21s19	17s32	0n21	0n32	2n57			n.a.
M 2	2 21	5 35	1 32	12 9	2 49	9 40	0 9	9 20	1 10	18 15	0 55	21 23	0 47	23 39	0 27	23 6	0 36	21 20	17 32	0 21	0 33	2 56			n.a.
T 3	2 45	0 51	0 9	11 57	2 42	10 10	0 7	9 5	1 10	18 12	0 55	21 22	0 47	23 39	0 27	23 6	0 36	21 20	17 32	0 21	0 35	2 54			n.a.
W 4	3 9	3n56	1s15	11 39	2 32	10 39	0 4	8 50	1 10	18 9	0 55	21 22	0 47	23 39	0 27	23 6	0 36	21 20	17 32	0 21	0 36	2 52			n.a.
T 5	3 33	8 25	2 33	11 16	2 22	11 9	0 2	8 35	1 10	18 7	0 55	21 21	0 47	23 39	0 27	23 6	0 36	21 21	17 32	0 21	0 37	2 50			n.a.
F 6	3 57	12 18	3 39	10 48	2 9	11 38	0s 1	8 20	1 10	18 4	0 56	21 20	0 47	23 39	0 27	23 6	0 36	21 21	17 32	0 22	0 38	2 48			n.a.
S 7	4 21	15 19	4 29	10 15	1 54	12 7	0 3	8 5	1 10	18 2	0 56	21 19	0 47	23 39	0 27	23 6	0 36	21 21	17 32	0 22	0 40	2 46			n.a.
S 8	4 45	17 21	5 1	9 37	1 38	12 35	0 6	7 50	1 10	17 59	0 56	21 19	0 48	23 39	0 27	23 6	0 36	21 21	17 31	0 23	0 41	2 44			n.a.
M 9	5 9	18 19	5 16	8 54	1 20	13 3	0 9	7 34	1 9	17 57	0 56	21 18	0 48	23 39	0 27	23 6	0 36	21 22	17 31	0 23	0 42	2 43			n.a.
T 10	5 33	18 17	5 14	8 8	1 1	13 31	0 11	7 19	1 9	17 54	0 56	21 18	0 48	23 39	0 27	23 7	0 36	21 22	17 31	0 24	0 43	2 41			n.a.
W11	5 56	17 20	4 57	7 19	0 41	13 59	0 14	7 4	1 9	17 52	0 57	21 17	0 48	23 39	0 27	23 7	0 36	21 22	17 31	0 24	0 45	2 39			n.a.
T 12	6 20	15 34	4 26	6 29	0 21	14 26	0 16	6 49	1 9	17 49	0 57	21 16	0 48	23 39	0 27	23 7	0 36	21 22	17 31	0 24	0 46	2 37			n.a.
F 13	6 44	13 10	3 44	5 39	0 0	14 53	0 19	6 33	1 9	17 47	0 57	21 16	0 49	23 39	0 27	23 7	0 36	21 23	17 31	0 23	0 47	2 35			n.a.
S 14	7 7	10 14	2 52	4 51	0n20	15 20	0 22	6 18	1 9	17 44	0 57	21 15	0 49	23 39	0 27	23 7	0 36	21 23	17 30	0 22	0 49	2 33			n.a.
S 15	7 30	6 54	1 54	4 5	0 40	15 46	0 24	6 2	1 9	17 42	0 57	21 15	0 49	23 39	0 27	23 7	0 36	21 23	17 30	0 22	0 50	2 32			n.a.
M16	7 53	3 19	0 52	3 25	0 58	16 12	0 27	5 47	1 9	17 40	0 58	21 14	0 49	23 39	0 27	23 7	0 36	21 23	17 30	0 21	0 51	2 30			n.a.
T 17	8 16	0s25	0n13	2 49	1 15	16 37	0 30	5 31	1 8	17 38	0 58	21 14	0 49	23 39	0 27	23 7	0 35	21 23	17 30	0 21	0 52	2 28			n.a.
W18	8 39	4 10	1 18	2 19	1 30	17 2	0 32	5 15	1 8	17 35	0 58	21 13	0 49	23 39	0 27	23 7	0 35	21 24	17 30	0 21	0 54	2 26			n.a.
T 19	9 2	7 46	2 20	1 56	1 43	17 26	0 35	5 0	1 8	17 33	0 58	21 13	0 50	23 39	0 27	23 7	0 35	21 24	17 29	0 22	0 55	2 24			n.a.
F 20	9 25	11 5	3 16	1 39	1 54	17 50	0 37	4 44	1 8	17 31	0 59	21 12	0 50	23 39	0 27	23 7	0 35	21 24	17 29	0 24	0 56	2 22			n.a.
S 21	9 47	13 58	4 4	1 28	2 4	18 14	0 40	4 28	1 8	17 29	0 59	21 12	0 50	23 39	0 27	23 7	0 35	21 24	17 29	0 25	0 58	2 21			n.a.
S 22	10 10	16 16	4 41	1 23	2 11	18 37	0 42	4 13	1 8	17 27	0 59	21 12	0 50	23 39	0 27	23 7	0 35	21 24	17 29	0 27	0 59	2 19			n.a.
M23	10 32	17 48	5 4	1 24	2 17	18 59	0 45	3 57	1 8	17 25	0 59	21 11	0 50	23 39	0 27	23 7	0 35	21 24	17 28	0 29	1 0	2 17			n.a.
T 24	10 54	18 28	5 13	1 30	2 21	19 21	0 47	3 41	1 7	17 23	1 0	21 11	0 50	23 39	0 27	23 7	0 35	21 24	17 28	0 31	1 1	2 15			n.a.
W25	11 16	18 10	5 6	1 41	2 24	19 43	0 50	3 25	1 7	17 21	1 0	21 11	0 51	23 39	0 27	23 7	0 35	21 24	17 28	0 32	1 3	2 13			n.a.
T 26	11 38	16 51	4 43	1 57	2 26	20 4	0 52	3 9	1 7	17 19	1 0	21 10	0 51	23 39	0 27	23 7	0 35	21 25	17 28	0 32	1 4	2 11			n.a.
F 27	11 59	14 33	4 2	2 15	2 26	20 24	0 55	2 53	1 7	17 17	1 0	21 10	0 51	23 39	0 27	23 7	0 35	21 25	17 27	0 32	1 5	2 9			n.a.
S 28	12 21	11 21	3 7	2 38	2 25	20 44	0 57	2 37	1 7	17 15	1 1	21 10	0 51	23 39	0 27	23 7	0 35	21 25	17 27	0 32	1 6	2 8			n.a.
S 29	12 42	7 24	1 59	3 3	2 24	21 3	1 0	2 22	1 7	17 13	1 1	21 10	0 51	23 39	0 27	23 7	0 35	21 25	17 27	0 31	1 8	2 6			n.a.
M30	13 3	2 56	0 42	3 30	2 21	21 22	1 2	2 6	1 6	17 11	1 1	21 10	0 52	23 39	0 28	23 7	0 35	21 25	17 27	0 31	1 9	2 4			n.a.
T 31	13s23	1n46	0s39	4s 0	2n18	21s40	1s 4	1n50	1n 6	17n10	1n 1	21n 9	0n52	23n39	0n28	23s 7	0n35	21s25	17s26	0n31	1n10	2n 2			n.a.

Julian Day Number = 1668735.5, Delta T = 03h21m44s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'30, Lahiri = - 5°56'30 Julian Calendar 1 Oct. 145 BCE == Greg. Calendar 28 Sept. 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

NOVEMBER 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 28 42	6♏10'32	20♈48	16♎33	2♐24	28♍37	16♌13	0♌20	11°R35	29♐ 9	16°R18	28°R42	27♍ 2	24♍29	n.a.	W 1
T 2	2 32 38	7°11'30	5♉40	17°48	3°38	29°16	16°19	0°21	11♋34	29°10	16♓18	28♍38	26°59	24°36	n.a.	T 2
F 3	2 36 35	8°12'29	20°23	19° 5	4°53	29°56	16°25	0°23	11°34	29°12	16°17	28°33	26°56	24°43	n.a.	F 3
S 4	2 40 31	9°13'28	4♊47	20°25	6° 7	0♎35	16°31	0°24	11°33	29°13	16°16	28°26	26°52	24°49	n.a.	S 4
S 5	2 44 28	10°14'29	18°48	21°46	7°21	1°14	16°37	0°25	11°32	29°15	16°16	28°19	26°49	24°56	n.a.	S 5
M 6	2 48 25	11°15'32	2♋23	23° 9	8°36	1°54	16°43	0°26	11°31	29°17	16°15	28°13	26°46	25° 3	n.a.	M 6
T 7	2 52 21	12°16'35	15°30	24°33	9°50	2°33	16°48	0°27	11°30	29°18	16°15	28° 7	26°43	25° 9	n.a.	T 7
W 8	2 56 18	13°17'40	28°13	25°58	11° 5	3°12	16°53	0°27	11°29	29°20	16°14	28° 4	26°40	25°16	n.a.	W 8
T 9	3 0 14	14°18'45	10♌34	27°25	12°19	3°52	16°58	0°28	11°28	29°22	16°14	28°D 3	26°37	25°23	n.a.	T 9
F 10	3 4 11	15°19'52	22°39	28°52	13°33	4°31	17° 3	0°28	11°27	29°24	16°13	28° 3	26°33	25°29	n.a.	F 10
S 11	3 8 7	16°21'00	4♍32	0♏20	14°48	5°10	17° 8	0°29	11°26	29°25	16°13	28° 4	26°30	25°36	n.a.	S 11
S 12	3 12 4	17°22'09	16°20	1°49	16° 2	5°50	17°13	0°29	11°25	29°27	16°12	28° 6	26°27	25°43	n.a.	S 12
M13	3 16 0	18°23'19	28° 6	3°18	17°16	6°29	17°17	0°29	11°24	29°29	16°12	28°R 6	26°24	25°49	n.a.	M13
T 14	3 19 57	19°24'29	9♎56	4°47	18°31	7° 9	17°22	0°R29	11°22	29°31	16°11	28° 5	26°21	25°56	n.a.	T 14
W15	3 23 54	20°25'41	21°54	6°18	19°45	7°48	17°26	0°29	11°21	29°33	16°11	28° 2	26°18	26° 2	n.a.	W15
T 16	3 27 50	21°26'53	4♏ 2	7°48	20°59	8°28	17°30	0°29	11°20	29°34	16°10	27°57	26°14	26° 9	n.a.	T 16
F 17	3 31 47	22°28'06	16°22	9°19	22°13	9° 7	17°33	0°29	11°18	29°36	16°10	27°49	26°11	26°16	n.a.	F 17
S 18	3 35 43	23°29'20	28°56	10°50	23°27	9°47	17°37	0°28	11°17	29°38	16°10	27°39	26° 8	26°22	n.a.	S 18
S 19	3 39 40	24°30'34	11♐43	12°21	24°42	10°26	17°40	0°28	11°15	29°40	16° 9	27°28	26° 5	26°29	n.a.	S 19
M20	3 43 36	25°31'49	24°44	13°53	25°56	11° 6	17°43	0°27	11°14	29°42	16° 9	27°17	26° 2	26°36	n.a.	M20
T 21	3 47 33	26°33'03	7♑56	15°25	27°10	11°45	17°46	0°26	11°12	29°44	16° 9	27° 7	25°58	26°42	n.a.	T 21
W22	3 51 29	27°34'18	21°20	16°57	28°24	12°25	17°49	0°25	11°11	29°46	16° 8	27° 0	25°55	26°49	n.a.	W22
T 23	3 55 26	28°35'33	4♒54	18°29	29°38	13° 4	17°52	0°24	11° 9	29°48	16° 8	26°55	25°52	26°56	n.a.	T 23
F 24	3 59 23	29°36'49	18°38	20° 2	0♑52	13°44	17°54	0°23	11° 7	29°50	16° 8	26°52	25°49	27° 2	n.a.	F 24
S 25	4 3 19	0♐38'04	2♓33	21°34	2° 6	14°23	17°57	0°22	11° 5	29°52	16° 8	26°D52	25°46	27° 9	n.a.	S 25
S 26	4 7 16	1°39'18	16°38	23° 7	3°20	15° 3	17°59	0°21	11° 4	29°54	16° 8	26°52	25°43	27°16	n.a.	S 26
M27	4 11 12	2°40'33	0♈53	24°41	4°34	15°42	18° 1	0°19	11° 2	29°56	16° 7	26°R52	25°39	27°22	n.a.	M27
T 28	4 15 9	3°41'48	15°16	26°14	5°48	16°22	18° 2	0°18	11° 0	29°58	16° 7	26°51	25°36	27°29	n.a.	T 28
W29	4 19 5	4°43'02	29°44	27°48	7° 2	17° 2	18° 4	0°16	10°58	0♑ 0	16° 7	26°47	25°33	27°35	n.a.	W29
T 30	4 23 2	5♐44'17	14♉12	29♏22	8♑16	17♎41	18♌ 5	0♌15	10♋56	0♑ 3	16♓ 7	26♍40	25♍30	27♍42	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13 s44	6n24	1 s58	4 s31	2n14	21 s58	1 s 7	1n34	1n 6	17n 8	1n 2	21n 9	0n52	23n39	0n28	23 s 7	0n35	21 s25	17 s26	0n32	1n12	2n 0		n.a.
T 2	14 4	10 37	3 8	5 4	2 10	22 15	1 9	1 18	1 6	17 6	1 2	21 9	0 52	23 40	0 28	23 7	0 35	21 25	17 26	0 33	1 13	1 58		n.a.
F 3	14 24	14 7	4 4	5 38	2 5	22 31	1 11	1 2	1 6	17 5	1 2	21 9	0 52	23 40	0 28	23 7	0 35	21 25	17 25	0 35	1 14	1 56		n.a.
S 4	14 44	16 40	4 44	6 13	2 0	22 46	1 13	0 46	1 5	17 3	1 2	21 9	0 53	23 40	0 28	23 7	0 35	21 25	17 25	0 38	1 15	1 55		n.a.
S 5	15 3	18 9	5 6	6 49	1 54	23 1	1 15	0 30	1 5	17 2	1 3	21 9	0 53	23 40	0 28	23 8	0 35	21 25	17 25	0 41	1 17	1 53		n.a.
M 6	15 23	18 32	5 9	7 25	1 48	23 16	1 18	0 14	1 5	17 0	1 3	21 9	0 53	23 40	0 28	23 8	0 35	21 25	17 24	0 43	1 18	1 51		n.a.
T 7	15 42	17 54	4 56	8 2	1 42	23 29	1 20	0 s 2	1 5	16 59	1 3	21 9	0 53	23 40	0 28	23 8	0 35	21 25	17 24	0 45	1 19	1 49		n.a.
W 8	16 0	16 22	4 28	8 40	1 36	23 42	1 22	0 18	1 4	16 57	1 3	21 9	0 53	23 40	0 28	23 8	0 35	21 25	17 24	0 47	1 20	1 47		n.a.
T 9	16 19	14 7	3 49	9 17	1 29	23 54	1 24	0 34	1 4	16 56	1 4	21 9	0 53	23 40	0 28	23 8	0 35	21 25	17 23	0 47	1 22	1 45		n.a.
F 10	16 37	11 17	3 0	9 55	1 22	24 6	1 25	0 50	1 4	16 55	1 4	21 9	0 54	23 40	0 28	23 8	0 35	21 24	17 23	0 47	1 23	1 43		n.a.
S 11	16 55	8 2	2 4	10 32	1 16	24 17	1 27	1 6	1 4	16 54	1 4	21 9	0 54	23 41	0 28	23 8	0 35	21 24	17 23	0 47	1 24	1 42		n.a.
S 12	17 12	4 29	1 3	11 10	1 9	24 27	1 29	1 22	1 4	16 52	1 4	21 9	0 54	23 41	0 28	23 8	0 35	21 24	17 23	0 46	1 26	1 40		n.a.
M13	17 30	0 46	0 0	11 47	1 2	24 36	1 31	1 38	1 3	16 51	1 5	21 9	0 54	23 41	0 28	23 8	0 35	21 24	17 22	0 46	1 27	1 38		n.a.
T 14	17 47	3 s 0	1n 3	12 25	0 55	24 45	1 32	1 54	1 3	16 50	1 5	21 10	0 54	23 41	0 28	23 8	0 35	21 24	17 22	0 46	1 28	1 36		n.a.
W15	18 3	6 42	2 5	13 1	0 47	24 52	1 34	2 10	1 3	16 49	1 5	21 10	0 55	23 41	0 28	23 8	0 35	21 24	17 22	0 47	1 29	1 34		n.a.
T 16	18 20	10 10	3 1	13 38	0 40	24 59	1 36	2 26	1 3	16 48	1 6	21 10	0 55	23 41	0 28	23 8	0 35	21 24	17 21	0 50	1 31	1 32		n.a.
F 17	18 36	13 15	3 50	14 14	0 33	25 6	1 37	2 42	1 2	16 47	1 6	21 10	0 55	23 41	0 28	23 8	0 35	21 24	17 21	0 53	1 32	1 30		n.a.
S 18	18 51	15 47	4 28	14 50	0 26	25 11	1 39	2 58	1 2	16 47	1 6	21 11	0 55	23 42	0 28	23 8	0 35	21 23	17 20	0 57	1 33	1 29		n.a.
S 19	19 7	17 36	4 53	15 25	0 19	25 16	1 40	3 14	1 2	16 46	1 6	21 11	0 55	23 42	0 28	23 8	0 35	21 23	17 20	1 1	1 35	1 27		n.a.
M20	19 22	18 32	5 4	15 59	0 12	25 20	1 41	3 30	1 1	16 45	1 7	21 11	0 56	23 42	0 28	23 8	0 35	21 23	17 20	1 6	1 36	1 25		n.a.
T 21	19 36	18 29	4 59	16 33	0 5	25 23	1 43	3 46	1 1	16 44	1 7	21 12	0 56	23 42	0 28	23 8	0 35	21 23	17 19	1 9	1 37	1 23		n.a.
W22	19 50	17 25	4 38	17 7	0 s 2	25 26	1 44	4 2	1 1	16 44	1 7	21 12	0 56	23 42	0 28	23 8	0 35	21 23	17 19	1 12	1 38	1 21		n.a.
T 23	20 4	15 22	4 1	17 40	0 9	25 27	1 45	4 17	1 1	16 43	1 8	21 12	0 56	23 42	0 28	23 8	0 35	21 22	17 19	1 15	1 40	1 19		n.a.
F 24	20 18	12 25	3 9	18 12	0 15	25 28	1 46	4 33	1 0	16 43	1 8	21 13	0 56	23 42	0 28	23 8	0 35	21 22	17 18	1 16	1 41	1 17		n.a.
S 25	20 31	8 43	2 6	18 43	0 22	25 29	1 47	4 49	1 0	16 42	1 8	21 13	0 57	23 43	0 28	23 8	0 34	21 22	17 18	1 16	1 42	1 16		n.a.
S 26	20 44	4 30	0 54	19 13	0 28	25 28	1 48	5 5	1 0	16 42	1 8	21 14	0 57	23 43	0 28	23 8	0 34	21 22	17 18	1 16	1 43	1 14		n.a.
M27	20 56	0n 2	0 s21	19 43	0 35	25 26	1 49	5 20	0 59	16 42	1 9	21 14	0 57	23 43	0 28	23 8	0 34	21 21	17 17	1 16	1 45	1 12		n.a.
T 28	21 8	4 36	1 36	20 12	0 41	25 24	1 49	5 36	0 59	16 41	1 9	21 15	0 57	23 43	0 28	23 8	0 34	21 21	17 17	1 16	1 46	1 10		n.a.
W29	21 19	8 55	2 45	20 39	0 47	25 21	1 50	5 52	0 59	16 41	1 9	21 15	0 57	23 43	0 28	23 8	0 34	21 21	17 17	1 18	1 47	1 8		n.a.
T 30	21 s30	12n43	3 s44	21 s 6	0 s53	25 s17	1 s51	6 s 7	0n58	16n41	1n10	21n16	0n57	23n44	0n28	23 s 8	0n34	21 s21	17 s16	1n20	1n49	1n 6		n.a.

Julian Day Number = 1668766.5, Delta T = 03h21m43s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'26, Lahiri = - 5°56'25 Julian Calendar 1 Nov. 145 BCE == Greg. Calendar 29 Oct. 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 145 BCE
geocentric

DECEMBER 145 BCE (-144) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 26 59	6♐45'31	28♉34	0♐56	9♑29	18♎21	18♌ 7	0°R13	10°R54	0♑ 5	16°R 7	26°R31	25♍27	27♍49	n.a.	F 1
S 2	4 30 55	7°46'45	12♊45	2°31	10°43	19° 1	18° 7	0♌11	10♋52	0° 7	16♓ 7	26♍20	25°24	27°55	n.a.	S 2
S 3	4 34 52	8°47'59	26°37	4° 6	11°57	19°40	18° 8	0° 9	10°50	0° 9	16°D 7	26° 7	25°20	28° 2	n.a.	S 3
M 4	4 38 48	9°49'14	10♋ 9	5°41	13°10	20°20	18° 9	0° 7	10°48	0°11	16° 7	25°56	25°17	28° 9	n.a.	M 4
T 5	4 42 45	10°50'28	23°17	7°17	14°24	21° 0	18° 9	0° 4	10°46	0°13	16° 7	25°46	25°14	28°15	n.a.	T 5
W 6	4 46 41	11°51'42	6♌ 1	8°53	15°38	21°39	18°R 9	0° 2	10°43	0°15	16° 7	25°38	25°11	28°22	n.a.	W 6
T 7	4 50 38	12°52'57	18°25	10°29	16°51	22°19	18° 9	29♋59	10°41	0°18	16° 7	25°33	25° 8	28°29	n.a.	T 7
F 8	4 54 34	13°54'11	0♍32	12° 6	18° 5	22°59	18° 9	29°57	10°39	0°20	16° 7	25°30	25° 4	28°35	n.a.	F 8
S 9	4 58 31	14°55'25	12°27	13°43	19°18	23°38	18° 9	29°55	10°37	0°22	16° 7	25°D30	25° 1	28°42	n.a.	S 9
S 10	5 2 28	15°56'39	24°15	15°21	20°32	24°18	18° 8	29°52	10°35	0°24	16° 7	25°R30	24°58	28°49	n.a.	S 10
M11	5 6 24	16°57'53	6♎ 2	16°59	21°45	24°58	18° 7	29°49	10°32	0°26	16° 8	25°29	24°55	28°55	n.a.	M11
T 12	5 10 21	17°59'07	17°54	18°37	22°58	25°38	18° 6	29°46	10°30	0°29	16° 8	25°27	24°52	29° 2	n.a.	T 12
W13	5 14 17	19° 0'21	29°56	20°16	24°11	26°17	18° 5	29°43	10°28	0°31	16° 8	25°23	24°49	29° 9	n.a.	W13
T 14	5 18 14	20° 1'34	12♏11	21°55	25°25	26°57	18° 4	29°40	10°25	0°33	16° 8	25°16	24°45	29°15	n.a.	T 14
F 15	5 22 10	21° 2'47	24°42	23°35	26°38	27°37	18° 2	29°37	10°23	0°35	16° 8	25° 6	24°42	29°22	n.a.	F 15
S 16	5 26 7	22° 4'00	7♐32	25°16	27°51	28°17	18° 1	29°34	10°20	0°38	16° 9	24°54	24°39	29°28	n.a.	S 16
S 17	5 30 3	23° 5'12	20°40	26°56	29° 4	28°57	17°59	29°30	10°18	0°40	16° 9	24°40	24°36	29°35	n.a.	S 17
M18	5 34 0	24° 6'23	4♑ 4	28°38	0♒17	29°36	17°57	29°27	10°15	0°42	16° 9	24°27	24°33	29°42	n.a.	M18
T 19	5 37 57	25° 7'34	17°42	0♑19	1°30	0♏16	17°54	29°23	10°13	0°44	16°10	24°14	24°30	29°48	n.a.	T 19
W20	5 41 53	26° 8'44	1♒30	2° 2	2°43	0°56	17°52	29°20	10°10	0°47	16°10	24° 4	24°26	29°55	n.a.	W20
T 21	5 45 50	27° 9'53	15°26	3°44	3°56	1°36	17°49	29°16	10° 8	0°49	16°11	23°57	24°23	0♎ 2	n.a.	T 21
F 22	5 49 46	28°11'01	29°26	5°27	5° 8	2°16	17°46	29°12	10° 5	0°51	16°11	23°53	24°20	0° 8	n.a.	F 22
S 23	5 53 43	29°12'07	13♓29	7°10	6°21	2°55	17°43	29° 9	10° 3	0°54	16°11	23°52	24°17	0°15	n.a.	S 23
S 24	5 57 39	0♑13'13	27°33	8°54	7°34	3°35	17°40	29° 5	10° 0	0°56	16°12	23°51	24°14	0°22	n.a.	S 24
M25	6 1 36	1°14'17	11♈37	10°37	8°46	4°15	17°36	29° 1	9°58	0°58	16°12	23°51	24°10	0°28	n.a.	M25
T 26	6 5 32	2°15'20	25°42	12°21	9°59	4°55	17°33	28°57	9°55	1° 0	16°13	23°50	24° 7	0°35	n.a.	T 26
W27	6 9 29	3°16'22	9♉45	14° 5	11°11	5°35	17°29	28°53	9°52	1° 3	16°13	23°46	24° 4	0°42	n.a.	W27
T 28	6 13 26	4°17'23	23°46	15°48	12°23	6°15	17°25	28°49	9°50	1° 5	16°14	23°39	24° 1	0°48	n.a.	T 28
F 29	6 17 22	5°18'22	7♊40	17°31	13°36	6°55	17°21	28°44	9°47	1° 7	16°14	23°29	23°58	0°55	n.a.	F 29
S 30	6 21 19	6°19'20	21°25	19°14	14°48	7°34	17°17	28°40	9°45	1° 9	16°15	23°17	23°55	1° 2	n.a.	S 30
S 31	6 25 15	7♑20'17	4♋57	20♑55	16♒ 0	8♏14	17♌12	28♋36	9♋42	1♑12	16♓16	23♍ 4	23♍51	1♎ 8	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s41	15n43	4s27	21s32	0s59	25s13	1s51	6s23	0n58	16n41	1n10	21n16	0n58	23n44	0n28	23s 8	0n34	21s20	17s16	1n24	1n50	1n 4		n.a.
S 2	21 51	17 44	4 54	21 57	1 5	25 8	1 52	6 38	0 58	16 41	1 10	21 17	0 58	23 44	0 28	23 8	0 34	21 20	17 15	1 29	1 51	1 3		n.a.
S 3	22 1	18 38	5 2	22 21	1 10	25 2	1 52	6 54	0 57	16 41	1 11	21 18	0 58	23 44	0 29	23 8	0 34	21 20	17 15	1 34	1 52	1 1		n.a.
M 4	22 10	18 27	4 53	22 44	1 15	24 55	1 52	7 9	0 57	16 41	1 11	21 18	0 58	23 44	0 29	23 8	0 34	21 19	17 15	1 38	1 54	0 59		n.a.
T 5	22 19	17 16	4 28	23 5	1 20	24 47	1 53	7 25	0 56	16 41	1 11	21 19	0 58	23 45	0 29	23 8	0 34	21 19	17 14	1 42	1 55	0 57		n.a.
W 6	22 28	15 15	3 51	23 26	1 25	24 39	1 53	7 40	0 56	16 41	1 11	21 20	0 59	23 45	0 29	23 8	0 34	21 19	17 14	1 45	1 56	0 55		n.a.
T 7	22 36	12 34	3 3	23 45	1 30	24 30	1 53	7 55	0 56	16 42	1 12	21 20	0 59	23 45	0 29	23 8	0 34	21 18	17 14	1 47	1 57	0 53		n.a.
F 8	22 44	9 24	2 8	24 3	1 34	24 20	1 53	8 11	0 55	16 42	1 12	21 21	0 59	23 45	0 29	23 8	0 34	21 18	17 13	1 48	1 59	0 51		n.a.
S 9	22 51	5 54	1 9	24 20	1 38	24 10	1 53	8 26	0 55	16 42	1 12	21 22	0 59	23 45	0 29	23 8	0 34	21 17	17 13	1 49	2 0	0 50		n.a.
S 10	22 58	2 12	0 7	24 35	1 42	23 58	1 52	8 41	0 55	16 43	1 13	21 22	0 59	23 46	0 29	23 8	0 34	21 17	17 12	1 49	2 1	0 48		n.a.
M11	23 4	1s34	0n56	24 49	1 46	23 46	1 52	8 56	0 54	16 43	1 13	21 23	1 0	23 46	0 29	23 8	0 34	21 17	17 12	1 49	2 3	0 46		n.a.
T 12	23 10	5 19	1 56	25 2	1 49	23 34	1 52	9 11	0 54	16 44	1 13	21 24	1 0	23 46	0 29	23 8	0 34	21 16	17 12	1 49	2 4	0 44		n.a.
W13	23 15	8 54	2 52	25 13	1 52	23 20	1 51	9 26	0 53	16 45	1 13	21 25	1 0	23 46	0 29	23 8	0 34	21 16	17 11	1 51	2 5	0 42		n.a.
T 14	23 20	12 10	3 40	25 22	1 55	23 6	1 51	9 41	0 53	16 45	1 14	21 26	1 0	23 46	0 29	23 8	0 34	21 15	17 11	1 54	2 6	0 40		n.a.
F 15	23 24	14 58	4 20	25 30	1 57	22 52	1 50	9 56	0 52	16 46	1 14	21 27	1 0	23 47	0 29	23 8	0 34	21 15	17 11	1 58	2 8	0 38		n.a.
S 16	23 28	17 6	4 47	25 37	1 59	22 36	1 49	10 10	0 52	16 47	1 14	21 27	1 0	23 47	0 29	23 8	0 34	21 14	17 10	2 3	2 9	0 37		n.a.
S 17	23 32	18 24	4 59	25 41	2 1	22 21	1 48	10 25	0 52	16 48	1 15	21 28	1 1	23 47	0 29	23 8	0 34	21 14	17 10	2 8	2 10	0 35		n.a.
M18	23 35	18 43	4 56	25 44	2 2	22 4	1 47	10 40	0 51	16 49	1 15	21 29	1 1	23 47	0 29	23 8	0 34	21 14	17 10	2 14	2 11	0 33		n.a.
T 19	23 37	17 58	4 36	25 46	2 3	21 47	1 46	10 54	0 51	16 50	1 15	21 30	1 1	23 47	0 29	23 8	0 34	21 13	17 9	2 19	2 13	0 31		n.a.
W20	23 39	16 10	3 59	25 45	2 4	21 29	1 45	11 9	0 50	16 51	1 16	21 31	1 1	23 48	0 29	23 8	0 34	21 13	17 9	2 23	2 14	0 29		n.a.
T 21	23 41	13 24	3 8	25 43	2 3	21 10	1 44	11 23	0 50	16 52	1 16	21 32	1 1	23 48	0 29	23 8	0 34	21 12	17 8	2 26	2 15	0 27		n.a.
F 22	23 42	9 51	2 5	25 39	2 3	20 52	1 43	11 38	0 49	16 53	1 16	21 33	1 1	23 48	0 29	23 8	0 34	21 12	17 8	2 27	2 17	0 25		n.a.
S 23	23 42	5 44	0 55	25 33	2 2	20 32	1 41	11 52	0 49	16 54	1 16	21 34	1 2	23 48	0 29	23 8	0 34	21 11	17 8	2 28	2 18	0 23		n.a.
S 24	23 43	1 17	0s20	25 25	2 0	20 12	1 40	12 6	0 48	16 56	1 17	21 35	1 2	23 48	0 29	23 8	0 34	21 11	17 7	2 28	2 19	0 22		n.a.
M25	23 42	3n14	1 33	25 15	1 58	19 51	1 38	12 20	0 48	16 57	1 17	21 36	1 2	23 49	0 29	23 8	0 34	21 10	17 7	2 28	2 20	0 20		n.a.
T 26	23 41	7 34	2 40	25 3	1 56	19 30	1 37	12 34	0 47	16 58	1 17	21 37	1 2	23 49	0 29	23 8	0 34	21 10	17 7	2 29	2 22	0 18		n.a.
W27	23 40	11 28	3 37	24 49	1 52	19 8	1 35	12 48	0 47	17 0	1 17	21 38	1 2	23 49	0 29	23 8	0 34	21 9	17 6	2 30	2 23	0 16		n.a.
T 28	23 38	14 42	4 22	24 33	1 48	18 46	1 33	13 2	0 46	17 1	1 18	21 39	1 2	23 49	0 29	23 8	0 34	21 8	17 6	2 33	2 24	0 14		n.a.
F 29	23 36	17 4	4 50	24 15	1 44	18 23	1 31	13 15	0 46	17 3	1 18	21 40	1 2	23 50	0 29	23 8	0 34	21 8	17 6	2 37	2 25	0 12		n.a.
S 30	23 33	18 25	5 1	23 56	1 38	18 0	1 29	13 29	0 45	17 4	1 18	21 41	1 3	23 50	0 29	23 8	0 34	21 7	17 5	2 42	2 27	0 10		n.a.
S 31	23s30	18n42	4s55	23s35	1s32	17s36	1s27	13s43	0n44	17n 6	1n19	21n42	1n 3	23n50	0n29	23s 8	0n34	21s 7	17s 5	2n47	2n28	0n 9		n.a.

Julian Day Number = 1668796.5, Delta T = 03h21m42s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'22, Lahiri = - 5°56'21 Julian Calendar 1 Dec. 145 BCE == Greg. Calendar 28 Nov. 145 BCE

The year -144 astronomical counting style corresponds to year 145 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

JANUARY 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 29 12	8♑21'13	18♋12	22♑36	17♒12	8♏54	17°R 7	28°R31	9°R39	1♑14	16♓16	22°R52	23♍48	1♎15	n.a.	M 1
T 2	6 33 8	9°22'07	1♌10	24°15	18°23	9°34	17♌ 3	28♋27	9♋37	1°16	16°17	22♍41	23°45	1°21	n.a.	T 2
W 3	6 37 5	10°23'01	13°48	25°52	19°35	10°14	16°58	28°23	9°34	1°19	16°18	22°32	23°42	1°28	n.a.	W 3
T 4	6 41 2	11°23'53	26°10	27°27	20°47	10°54	16°53	28°18	9°32	1°21	16°18	22°26	23°39	1°35	n.a.	T 4
F 5	6 44 58	12°24'44	8♍16	28°59	21°58	11°34	16°47	28°14	9°29	1°23	16°19	22°23	23°36	1°41	n.a.	F 5
S 6	6 48 55	13°25'34	20°11	0♒28	23°10	12°14	16°42	28° 9	9°26	1°25	16°20	22°D22	23°32	1°48	n.a.	S 6
S 7	6 52 51	14°26'23	2♎ 0	1°53	24°21	12°54	16°36	28° 4	9°24	1°28	16°21	22°22	23°29	1°55	n.a.	S 7
M 8	6 56 48	15°27'11	13°48	3°14	25°32	13°34	16°31	28° 0	9°21	1°30	16°21	22°R23	23°26	2° 1	n.a.	M 8
T 9	7 0 44	16°27'58	25°40	4°29	26°44	14°14	16°25	27°55	9°19	1°32	16°22	22°22	23°23	2° 8	n.a.	T 9
W10	7 4 41	17°28'44	7♏43	5°38	27°55	14°54	16°19	27°50	9°16	1°34	16°23	22°20	23°20	2°15	n.a.	W10
T 11	7 8 37	18°29'28	20° 0	6°41	29° 6	15°34	16°13	27°46	9°13	1°36	16°24	22°15	23°16	2°21	n.a.	T 11
F 12	7 12 34	19°30'11	2♐36	7°36	0♓16	16°14	16° 6	27°41	9°11	1°39	16°25	22° 8	23°13	2°28	n.a.	F 12
S 13	7 16 31	20°30'53	15°34	8°23	1°27	16°54	16° 0	27°36	9° 8	1°41	16°26	21°59	23°10	2°35	n.a.	S 13
S 14	7 20 27	21°31'34	28°55	9° 1	2°38	17°33	15°54	27°31	9° 6	1°43	16°26	21°49	23° 7	2°41	n.a.	S 14
M15	7 24 24	22°32'13	12♑37	9°29	3°48	18°13	15°47	27°26	9° 3	1°45	16°27	21°38	23° 4	2°48	n.a.	M15
T 16	7 28 20	23°32'50	26°38	9°48	4°58	18°53	15°40	27°22	9° 1	1°47	16°28	21°29	23° 1	2°55	n.a.	T 16
W17	7 32 17	24°33'26	10♒53	9°R56	6° 9	19°33	15°33	27°17	8°58	1°49	16°29	21°21	22°57	3° 1	n.a.	W17
T 18	7 36 13	25°34'00	25°16	9°54	7°19	20°13	15°27	27°12	8°56	1°52	16°30	21°16	22°54	3° 8	n.a.	T 18
F 19	7 40 10	26°34'32	9♓42	9°42	8°29	20°53	15°19	27° 7	8°53	1°54	16°31	21°13	22°51	3°14	n.a.	F 19
S 20	7 44 6	27°35'02	24° 6	9°19	9°38	21°33	15°12	27° 2	8°51	1°56	16°32	21°D12	22°48	3°21	n.a.	S 20
S 21	7 48 3	28°35'31	8♈24	8°47	10°48	22°13	15° 5	26°57	8°48	1°58	16°33	21°13	22°45	3°28	n.a.	S 21
M22	7 52 0	29°35'57	22°34	8° 6	11°57	22°53	14°58	26°53	8°46	2° 0	16°34	21°14	22°41	3°34	n.a.	M22
T 23	7 55 56	0♒36'21	6♉35	7°18	13° 7	23°33	14°51	26°48	8°44	2° 2	16°35	21°R14	22°38	3°41	n.a.	T 23
W24	7 59 53	1°36'43	20°26	6°23	14°16	24°13	14°43	26°43	8°41	2° 4	16°36	21°12	22°35	3°48	n.a.	W24
T 25	8 3 49	2°37'03	4♊ 7	5°24	15°25	24°53	14°36	26°38	8°39	2° 6	16°37	21° 8	22°32	3°54	n.a.	T 25
F 26	8 7 46	3°37'21	17°37	4°21	16°34	25°33	14°28	26°33	8°37	2° 8	16°38	21° 2	22°29	4° 1	n.a.	F 26
S 27	8 11 42	4°37'36	0♋56	3°16	17°42	26°13	14°20	26°29	8°34	2°10	16°40	20°55	22°26	4° 8	n.a.	S 27
S 28	8 15 39	5°37'50	14° 2	2°12	18°51	26°53	14°13	26°24	8°32	2°12	16°41	20°47	22°22	4°14	n.a.	S 28
M29	8 19 35	6°38'02	26°55	1° 8	19°59	27°33	14° 5	26°19	8°30	2°14	16°42	20°39	22°19	4°21	n.a.	M29
T 30	8 23 32	7°38'12	9♌35	0° 8	21° 7	28°13	13°57	26°14	8°28	2°16	16°43	20°32	22°16	4°28	n.a.	T 30
W31	8 27 29	8♒38'20	22♌ 0	29♑11	22♓15	28♏53	13♌50	26♋10	8♋25	2♑18	16♓44	20♍26	22♍13	4♎34	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23s27	17n57	4s33	23s11	1s25	17s12	1s25	13s56	0n44	17n 8	1n19	21n43	1n 3	23n50	0n29	23s 8	0n34	21s 6	17s 5	2n52	2n29	0n 7			n.a.
T 2	23 22	16 17	3 57	22 47	1 17	16 48	1 23	14 9	0 43	17 9	1 19	21 44	1 3	23 50	0 29	23 8	0 34	21 6	17 4	2 56	2 31	0 5			n.a.
W 3	23 18	13 50	3 10	22 20	1 9	16 23	1 20	14 23	0 43	17 11	1 19	21 45	1 3	23 51	0 29	23 8	0 34	21 5	17 4	3 0	2 32	0 3			n.a.
T 4	23 13	10 50	2 15	21 53	0 59	15 58	1 18	14 36	0 42	17 13	1 20	21 46	1 3	23 51	0 29	23 8	0 34	21 5	17 4	3 2	2 33	0 1			n.a.
F 5	23 7	7 25	1 14	21 24	0 49	15 32	1 15	14 49	0 42	17 15	1 20	21 47	1 3	23 51	0 29	23 8	0 34	21 4	17 3	3 3	2 34	0s 1			n.a.
S 6	23 1	3 45	0 12	20 54	0 38	15 6	1 13	15 2	0 41	17 17	1 20	21 48	1 4	23 51	0 29	23 8	0 34	21 3	17 3	3 4	2 36	0 3			n.a.
S 7	22 55	0s 1	0n51	20 23	0 26	14 39	1 10	15 15	0 40	17 19	1 20	21 49	1 4	23 51	0 29	23 8	0 34	21 3	17 3	3 4	2 37	0 5			n.a.
M 8	22 48	3 47	1 52	19 52	0 13	14 12	1 7	15 27	0 40	17 21	1 21	21 50	1 4	23 52	0 29	23 8	0 34	21 2	17 2	3 3	2 38	0 6			n.a.
T 9	22 41	7 26	2 48	19 21	0n 0	13 45	1 4	15 40	0 39	17 23	1 21	21 51	1 4	23 52	0 29	23 8	0 34	21 2	17 2	3 4	2 39	0 8			n.a.
W10	22 33	10 49	3 37	18 50	0 15	13 18	1 1	15 53	0 38	17 25	1 21	21 52	1 4	23 52	0 29	23 8	0 34	21 1	17 2	3 4	2 41	0 10			n.a.
T 11	22 25	13 48	4 18	18 20	0 30	12 50	0 58	16 5	0 38	17 27	1 21	21 54	1 4	23 52	0 29	23 8	0 34	21 0	17 1	3 6	2 42	0 12			n.a.
F 12	22 16	16 13	4 47	17 50	0 46	12 22	0 55	16 17	0 37	17 29	1 21	21 55	1 4	23 52	0 29	23 8	0 34	21 0	17 1	3 9	2 43	0 14			n.a.
S 13	22 7	17 54	5 2	17 23	1 2	11 53	0 52	16 29	0 36	17 31	1 22	21 56	1 4	23 52	0 29	23 8	0 34	20 59	17 1	3 13	2 45	0 16			n.a.
S 14	21 58	18 40	5 2	16 57	1 19	11 25	0 49	16 41	0 36	17 33	1 22	21 57	1 5	23 53	0 29	23 8	0 34	20 58	17 0	3 17	2 46	0 18			n.a.
M15	21 48	18 23	4 45	16 33	1 35	10 56	0 45	16 53	0 35	17 35	1 22	21 58	1 5	23 53	0 29	23 8	0 34	20 58	17 0	3 21	2 47	0 20			n.a.
T 16	21 38	16 59	4 10	16 12	1 52	10 27	0 42	17 5	0 34	17 38	1 22	21 59	1 5	23 53	0 29	23 8	0 34	20 57	17 0	3 25	2 48	0 21			n.a.
W17	21 27	14 31	3 19	15 53	2 9	9 57	0 38	17 17	0 34	17 40	1 22	22 0	1 5	23 53	0 29	23 8	0 34	20 57	17 0	3 28	2 50	0 23			n.a.
T 18	21 16	11 8	2 15	15 38	2 25	9 28	0 35	17 28	0 33	17 42	1 23	22 1	1 5	23 53	0 29	23 8	0 34	20 56	16 59	3 30	2 51	0 25			n.a.
F 19	21 5	7 4	1 1	15 27	2 41	8 58	0 31	17 40	0 32	17 44	1 23	22 2	1 5	23 54	0 29	23 8	0 34	20 55	16 59	3 31	2 52	0 27			n.a.
S 20	20 53	2 36	0s16	15 19	2 55	8 28	0 27	17 51	0 31	17 47	1 23	22 3	1 5	23 54	0 29	23 8	0 34	20 55	16 59	3 31	2 53	0 29			n.a.
S 21	20 41	1n58	1 31	15 14	3 9	7 58	0 24	18 2	0 31	17 49	1 23	22 4	1 5	23 54	0 29	23 8	0 34	20 54	16 58	3 31	2 55	0 31			n.a.
M22	20 28	6 24	2 41	15 13	3 21	7 27	0 20	18 13	0 30	17 51	1 23	22 5	1 5	23 54	0 29	23 8	0 34	20 53	16 58	3 31	2 56	0 33			n.a.
T 23	20 15	10 25	3 40	15 16	3 31	6 57	0 16	18 24	0 29	17 54	1 23	22 6	1 6	23 54	0 29	23 8	0 34	20 53	16 58	3 31	2 57	0 35			n.a.
W24	20 2	13 48	4 25	15 21	3 39	6 26	0 12	18 35	0 28	17 56	1 24	22 7	1 6	23 54	0 29	23 8	0 34	20 52	16 58	3 32	2 58	0 36			n.a.
T 25	19 48	16 23	4 55	15 30	3 45	5 56	0 8	18 46	0 27	17 58	1 24	22 8	1 6	23 54	0 29	23 8	0 34	20 51	16 57	3 33	3 0	0 38			n.a.
F 26	19 34	18 1	5 7	15 41	3 49	5 25	0 3	18 56	0 27	18 1	1 24	22 9	1 6	23 55	0 29	23 8	0 34	20 51	16 57	3 35	3 1	0 40			n.a.
S 27	19 19	18 39	5 3	15 54	3 51	4 54	0n 1	19 6	0 26	18 3	1 24	22 10	1 6	23 55	0 29	23 8	0 34	20 50	16 57	3 38	3 2	0 42			n.a.
S 28	19 5	18 16	4 43	16 9	3 50	4 23	0 5	19 17	0 25	18 6	1 24	22 11	1 6	23 55	0 29	23 8	0 34	20 49	16 57	3 42	3 4	0 44			n.a.
M29	18 49	16 56	4 9	16 26	3 47	3 52	0 9	19 27	0 24	18 8	1 24	22 12	1 6	23 55	0 29	23 8	0 34	20 49	16 56	3 45	3 5	0 46			n.a.
T 30	18 34	14 48	3 23	16 43	3 43	3 21	0 14	19 36	0 23	18 10	1 24	22 13	1 6	23 55	0 29	23 8	0 34	20 48	16 56	3 48	3 6	0 48			n.a.
W31	18s18	12n 0	2s28	17s 1	3n36	2s50	0n18	19s46	0n22	18n13	1n25	22n14	1n 6	23n55	0n29	23s 8	0n34	20s47	16s56	3n50	3n 7	0s50			n.a.

Julian Day Number = 1668827.5, Delta T = 03h21m41s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'18, Lahiri = - 5°56'17 Julian Calendar 1 Jan. 144 BCE == Greg. Calendar 29 Dec. 145 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

FEBRUARY 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 31 25	9♒38'25	4♍13	28°R20	23♓23	29♏33	13°R42	26°R 5	8°R23	2♑20	16♓45	20°R23	22♍10	4♎41	n.a.	T 1
F 2	8 35 22	10°38'29	16°15	27♑34	24°30	0♐13	13♌34	26♋ 0	8♋21	2°22	16°46	20°D21	22° 7	4°48	n.a.	F 2
S 3	8 39 18	11°38'32	28° 8	26°55	25°38	0°52	13°26	25°56	8°19	2°24	16°48	20♍21	22° 3	4°54	n.a.	S 3
S 4	8 43 15	12°38'32	9♎56	26°22	26°45	1°32	13°18	25°51	8°17	2°25	16°49	20°23	22° 0	5° 1	n.a.	S 4
M 5	8 47 11	13°38'31	21°44	25°56	27°52	2°12	13°11	25°47	8°15	2°27	16°50	20°24	21°57	5° 8	n.a.	M 5
T 6	8 51 8	14°38'27	3♏37	25°36	28°58	2°52	13° 3	25°42	8°13	2°29	16°51	20°26	21°54	5°14	n.a.	T 6
W 7	8 55 4	15°38'22	15°38	25°24	0♈ 5	3°32	12°55	25°38	8°11	2°31	16°53	20°R27	21°51	5°21	n.a.	W 7
T 8	8 59 1	16°38'16	27°54	25°D18	1°11	4°12	12°47	25°34	8° 9	2°33	16°54	20°26	21°47	5°27	n.a.	T 8
F 9	9 2 57	17°38'07	10♐28	25°18	2°17	4°52	12°39	25°29	8° 7	2°34	16°55	20°24	21°44	5°34	n.a.	F 9
S 10	9 6 54	18°37'57	23°26	25°24	3°23	5°32	12°32	25°25	8° 6	2°36	16°56	20°20	21°41	5°41	n.a.	S 10
S 11	9 10 51	19°37'45	6♑49	25°37	4°28	6°12	12°24	25°21	8° 4	2°38	16°58	20°16	21°38	5°47	n.a.	S 11
M12	9 14 47	20°37'31	20°38	25°54	5°33	6°52	12°16	25°17	8° 2	2°40	16°59	20°11	21°35	5°54	n.a.	M12
T 13	9 18 44	21°37'15	4♒50	26°17	6°38	7°32	12° 8	25°13	8° 0	2°41	17° 0	20° 7	21°32	6° 1	n.a.	T 13
W14	9 22 40	22°36'57	19°23	26°45	7°43	8°11	12° 1	25° 9	7°59	2°43	17° 2	20° 3	21°28	6° 7	n.a.	W14
T 15	9 26 37	23°36'37	4♓ 8	27°17	8°47	8°51	11°53	25° 5	7°57	2°44	17° 3	20° 1	21°25	6°14	n.a.	T 15
F 16	9 30 33	24°36'15	19° 0	27°53	9°51	9°31	11°46	25° 1	7°56	2°46	17° 4	20°D 0	21°22	6°21	n.a.	F 16
S 17	9 34 30	25°35'51	3♈49	28°34	10°55	10°11	11°38	24°57	7°54	2°48	17° 6	20° 1	21°19	6°27	n.a.	S 17
S 18	9 38 26	26°35'24	18°30	29°18	11°59	10°51	11°31	24°53	7°53	2°49	17° 7	20° 2	21°16	6°34	n.a.	S 18
M19	9 42 23	27°34'54	2♉58	0♒ 6	13° 2	11°30	11°24	24°49	7°51	2°51	17° 8	20° 3	21°13	6°41	n.a.	M19
T 20	9 46 20	28°34'23	17° 9	0°57	14° 5	12°10	11°16	24°46	7°50	2°52	17°10	20° 5	21° 9	6°47	n.a.	T 20
W21	9 50 16	29°33'49	1♊ 1	1°52	15° 8	12°50	11° 9	24°42	7°48	2°54	17°11	20°R 5	21° 6	6°54	n.a.	W21
T 22	9 54 13	0♓33'12	14°36	2°49	16°10	13°30	11° 2	24°39	7°47	2°55	17°12	20° 4	21° 3	7° 1	n.a.	T 22
F 23	9 58 9	1°32'33	27°52	3°49	17°12	14° 9	10°55	24°35	7°46	2°56	17°14	20° 3	21° 0	7° 7	n.a.	F 23
S 24	10 2 6	2°31'52	10♋53	4°51	18°13	14°49	10°48	24°32	7°45	2°58	17°15	20° 1	20°57	7°14	n.a.	S 24
S 25	10 6 2	3°31'08	23°39	5°57	19°14	15°29	10°41	24°29	7°44	2°59	17°17	19°58	20°53	7°21	n.a.	S 25
M26	10 9 59	4°30'22	6♌11	7° 4	20°15	16° 8	10°35	24°26	7°43	3° 0	17°18	19°56	20°50	7°27	n.a.	M26
T 27	10 13 55	5°29'34	18°32	8°14	21°15	16°48	10°28	24°23	7°41	3° 2	17°19	19°54	20°47	7°34	n.a.	T 27
W28	10 17 52	6♓28'43	0♍42	9♒26	22♈15	17♐27	10♌22	24♋20	7♋40	3♑ 3	17♓21	19♍52	20♍44	7♎40	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 2	8n44	1s27	17s20	3n28	2s18	0n23	19s56	0n22	18n15	1n25	22n15	1n 6	23n55	0n29	23s 8	0n34	20s47	16s56	3n51	3n 9	0s51		n.a.
F 2	17 46	5 9	0 22	17 38	3 19	1 47	0 27	20 5	0 21	18 17	1 25	22 16	1 6	23 56	0 29	23 8	0 34	20 46	16 56	3 52	3 10	0 53		n.a.
S 3	17 29	1 24	0n42	17 56	3 8	1 16	0 32	20 15	0 20	18 20	1 25	22 17	1 6	23 56	0 29	23 8	0 34	20 45	16 55	3 52	3 11	0 55		n.a.
S 4	17 12	2s23	1 45	18 14	2 57	0 45	0 37	20 24	0 19	18 22	1 25	22 18	1 6	23 56	0 29	23 7	0 34	20 45	16 55	3 51	3 12	0 57		n.a.
M 5	16 55	6 3	2 43	18 31	2 44	0 14	0 41	20 33	0 18	18 25	1 25	22 19	1 6	23 56	0 29	23 7	0 34	20 44	16 55	3 51	3 14	0 59		n.a.
T 6	16 38	9 30	3 35	18 47	2 31	0n18	0 46	20 42	0 17	18 27	1 25	22 20	1 7	23 56	0 29	23 7	0 34	20 43	16 55	3 50	3 15	1 1		n.a.
W 7	16 20	12 36	4 17	19 2	2 18	0 49	0 51	20 50	0 16	18 29	1 25	22 21	1 7	23 56	0 29	23 7	0 34	20 43	16 55	3 50	3 16	1 3		n.a.
T 8	16 2	15 13	4 49	19 17	2 5	1 20	0 56	20 59	0 15	18 32	1 25	22 22	1 7	23 56	0 29	23 7	0 34	20 42	16 54	3 50	3 17	1 4		n.a.
F 9	15 43	17 11	5 8	19 30	1 51	1 51	1 1	21 7	0 14	18 34	1 25	22 23	1 7	23 56	0 29	23 7	0 34	20 41	16 54	3 51	3 19	1 6		n.a.
S 10	15 25	18 21	5 13	19 42	1 38	2 22	1 6	21 15	0 13	18 36	1 25	22 23	1 7	23 57	0 29	23 7	0 34	20 41	16 54	3 52	3 20	1 8		n.a.
S 11	15 6	18 32	5 0	19 53	1 24	2 52	1 11	21 23	0 12	18 38	1 25	22 24	1 7	23 57	0 29	23 7	0 34	20 40	16 54	3 54	3 21	1 10		n.a.
M12	14 47	17 39	4 30	20 3	1 11	3 23	1 16	21 31	0 11	18 41	1 26	22 25	1 7	23 57	0 29	23 7	0 34	20 39	16 54	3 56	3 23	1 12		n.a.
T 13	14 27	15 40	3 43	20 11	0 58	3 54	1 21	21 39	0 10	18 43	1 26	22 26	1 7	23 57	0 29	23 7	0 34	20 39	16 53	3 58	3 24	1 14		n.a.
W14	14 8	12 38	2 41	20 19	0 45	4 24	1 26	21 46	0 9	18 45	1 26	22 27	1 7	23 57	0 29	23 7	0 34	20 38	16 53	3 59	3 25	1 16		n.a.
T 15	13 48	8 46	1 26	20 25	0 32	4 55	1 31	21 54	0 8	18 47	1 26	22 27	1 7	23 57	0 29	23 7	0 34	20 37	16 53	4 0	3 26	1 18		n.a.
F 16	13 28	4 19	0 6	20 29	0 20	5 25	1 36	22 1	0 7	18 49	1 26	22 28	1 7	23 57	0 29	23 7	0 34	20 37	16 53	4 0	3 28	1 19		n.a.
S 17	13 8	0n23	1s15	20 33	0 8	5 55	1 41	22 8	0 6	18 52	1 26	22 29	1 7	23 57	0 29	23 7	0 34	20 36	16 53	4 0	3 29	1 21		n.a.
S 18	12 48	5 1	2 31	20 35	0s 3	6 25	1 46	22 15	0 5	18 54	1 26	22 30	1 7	23 57	0 29	23 7	0 34	20 35	16 53	3 59	3 30	1 23		n.a.
M19	12 27	9 16	3 35	20 35	0 14	6 54	1 51	22 22	0 4	18 56	1 26	22 30	1 7	23 57	0 29	23 7	0 34	20 35	16 53	3 59	3 31	1 25		n.a.
T 20	12 6	12 54	4 25	20 35	0 25	7 24	1 56	22 28	0 2	18 58	1 26	22 31	1 7	23 57	0 29	23 7	0 34	20 34	16 53	3 58	3 33	1 27		n.a.
W21	11 45	15 43	4 59	20 32	0 35	7 53	2 2	22 34	0 1	19 0	1 26	22 32	1 7	23 57	0 29	23 7	0 34	20 33	16 52	3 58	3 34	1 29		n.a.
T 22	11 24	17 36	5 14	20 29	0 45	8 22	2 7	22 41	0 0	19 2	1 26	22 32	1 7	23 58	0 29	23 7	0 34	20 33	16 52	3 59	3 35	1 31		n.a.
F 23	11 3	18 29	5 13	20 24	0 54	8 51	2 12	22 46	0s 1	19 4	1 26	22 33	1 7	23 58	0 29	23 7	0 34	20 32	16 52	3 59	3 36	1 33		n.a.
S 24	10 41	18 21	4 55	20 17	1 3	9 20	2 17	22 52	0 2	19 5	1 26	22 33	1 7	23 58	0 29	23 7	0 34	20 31	16 52	4 0	3 38	1 34		n.a.
S 25	10 20	17 18	4 23	20 9	1 11	9 48	2 22	22 58	0 3	19 7	1 26	22 34	1 7	23 58	0 29	23 7	0 34	20 31	16 52	4 1	3 39	1 36		n.a.
M26	9 58	15 24	3 39	20 0	1 19	10 16	2 28	23 3	0 5	19 9	1 26	22 35	1 7	23 58	0 29	23 7	0 34	20 30	16 52	4 2	3 40	1 38		n.a.
T 27	9 36	12 50	2 45	19 49	1 27	10 44	2 33	23 9	0 6	19 11	1 25	22 35	1 7	23 58	0 29	23 7	0 34	20 29	16 52	4 3	3 42	1 40		n.a.
W28	9s14	9n43	1s44	19s36	1s34	11n12	2n38	23s14	0s 7	19n13	1n25	22n36	1n 7	23n58	0n29	23s 7	0n34	20s29	16s52	4n 3	3n43	1s42		n.a.

Julian Day Number = 1668858.5, Delta T = 03h21m40s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'13, Lahiri = - 5°56'13 Julian Calendar 1 Feb. 144 BCE == Greg. Calendar 29 Jan. 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

MARCH 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 21 48	7♓27'50	12♍44	10♒40	23♈14	18♐ 7	10°R16	24°R17	7°R40	3♑ 4	17♓22	19°R52	20♍41	7♎47	n.a.	T 1
F 2	10 25 45	8°26'55	24°39	11°56	24°13	18°47	10♌ 9	24♋14	7♋39	3° 5	17°24	19°D52	20°38	7°54	n.a.	F 2
S 3	10 29 42	9°25'58	6♎29	13°14	25°12	19°26	10° 3	24°11	7°38	3° 7	17°25	19♍52	20°34	8° 0	n.a.	S 3
S 4	10 33 38	10°24'59	18°17	14°34	26°10	20° 6	9°57	24° 9	7°37	3° 8	17°27	19°53	20°31	8° 7	n.a.	S 4
M 5	10 37 35	11°23'58	0♏ 6	15°56	27° 8	20°45	9°51	24° 6	7°36	3° 9	17°28	19°54	20°28	8°14	n.a.	M 5
T 6	10 41 31	12°22'55	12° 0	17°19	28° 5	21°25	9°46	24° 4	7°35	3°10	17°29	19°55	20°25	8°20	n.a.	T 6
W 7	10 45 28	13°21'50	24° 2	18°44	29° 1	22° 4	9°40	24° 2	7°35	3°11	17°31	19°55	20°22	8°27	n.a.	W 7
T 8	10 49 24	14°20'44	6♐16	20°11	29°57	22°43	9°35	23°59	7°34	3°12	17°32	19°56	20°18	8°34	n.a.	T 8
F 9	10 53 21	15°19'35	18°48	21°40	0♉53	23°23	9°30	23°57	7°34	3°13	17°34	19°R56	20°15	8°40	n.a.	F 9
S 10	10 57 17	16°18'25	1♑41	23°10	1°48	24° 2	9°25	23°55	7°33	3°14	17°35	19°56	20°12	8°47	n.a.	S 10
S 11	11 1 14	17°17'13	14°58	24°42	2°42	24°41	9°20	23°53	7°33	3°15	17°37	19°55	20° 9	8°54	n.a.	S 11
M12	11 5 11	18°15'59	28°42	26°15	3°36	25°21	9°15	23°51	7°32	3°16	17°38	19°55	20° 6	9° 0	n.a.	M12
T 13	11 9 7	19°14'43	12♒53	27°50	4°29	26° 0	9°10	23°50	7°32	3°17	17°39	19°55	20° 3	9° 7	n.a.	T 13
W14	11 13 4	20°13'25	27°27	29°27	5°22	26°39	9° 6	23°48	7°32	3°18	17°41	19°D55	19°59	9°14	n.a.	W14
T 15	11 17 0	21°12'06	12♓21	1♓ 5	6°13	27°18	9° 1	23°46	7°32	3°19	17°42	19°R55	19°56	9°20	n.a.	T 15
F 16	11 20 57	22°10'44	27°27	2°45	7° 5	27°58	8°57	23°45	7°31	3°19	17°44	19°55	19°53	9°27	n.a.	F 16
S 17	11 24 53	23° 9'20	12♈36	4°26	7°55	28°37	8°53	23°44	7°31	3°20	17°45	19°55	19°50	9°34	n.a.	S 17
S 18	11 28 50	24° 7'54	27°38	6° 9	8°45	29°16	8°49	23°42	7°31	3°21	17°47	19°54	19°47	9°40	n.a.	S 18
M19	11 32 46	25° 6'26	12♉25	7°54	9°34	29°55	8°46	23°41	7°D31	3°21	17°48	19°54	19°44	9°47	n.a.	M19
T 20	11 36 43	26° 4'56	26°53	9°40	10°22	0♑34	8°42	23°40	7°31	3°22	17°49	19°53	19°40	9°54	n.a.	T 20
W21	11 40 39	27° 3'23	10♊56	11°28	11° 9	1°12	8°39	23°39	7°31	3°23	17°51	19°53	19°37	10° 0	n.a.	W21
T 22	11 44 36	28° 1'49	24°34	13°17	11°55	1°51	8°36	23°39	7°31	3°23	17°52	19°D53	19°34	10° 7	n.a.	T 22
F 23	11 48 33	29° 0'12	7♋49	15° 8	12°41	2°30	8°33	23°38	7°32	3°24	17°54	19°53	19°31	10°13	n.a.	F 23
S 24	11 52 29	29°58'32	20°41	17° 1	13°25	3° 9	8°30	23°37	7°32	3°24	17°55	19°53	19°28	10°20	n.a.	S 24
S 25	11 56 26	0♈56'51	3♌16	18°56	14° 9	3°47	8°28	23°37	7°32	3°25	17°57	19°54	19°24	10°27	n.a.	S 25
M26	12 0 22	1°55'07	15°35	20°51	14°51	4°26	8°25	23°37	7°33	3°25	17°58	19°55	19°21	10°33	n.a.	M26
T 27	12 4 19	2°53'21	27°42	22°49	15°33	5° 5	8°23	23°36	7°33	3°26	17°59	19°56	19°18	10°40	n.a.	T 27
W28	12 8 15	3°51'34	9♍41	24°48	16°13	5°43	8°21	23°36	7°33	3°26	18° 1	19°57	19°15	10°47	n.a.	W28
T 29	12 12 12	4°49'44	21°34	26°49	16°52	6°22	8°19	23°D36	7°34	3°27	18° 2	19°R57	19°12	10°53	n.a.	T 29
F 30	12 16 8	5°47'52	3♎23	28°51	17°30	7° 0	8°17	23°36	7°35	3°27	18° 3	19°57	19° 9	11° 0	n.a.	F 30
S 31	12 20 5	6♈45'59	15♎12	0♈55	18♉ 7	7♑38	8♌16	23♋36	7♋35	3♑27	18♓ 5	19♍55	19♍ 5	11♎ 7	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	8s52	6n15	0s39	19s22	1s41	11n39	2n43	23s19	0s 8	19n14	1n25	22n36	1n 7	23n58	0n29	23s 7	0n34	20s28	16s52	4n 4	3n44	1s44		n.a.
F 2	8 30	2 33	0n27	19 7	1 47	12 6	2 48	23 23	0 10	19 16	1 25	22 37	1 7	23 58	0 29	23 7	0 34	20 28	16 52	4 4	3 45	1 46		n.a.
S 3	8 7	1s13	1 31	18 50	1 52	12 32	2 53	23 28	0 11	19 18	1 25	22 37	1 7	23 58	0 29	23 7	0 34	20 27	16 52	4 3	3 47	1 48		n.a.
S 4	7 45	4 55	2 31	18 31	1 58	12 59	2 58	23 32	0 12	19 19	1 25	22 38	1 7	23 58	0 29	23 6	0 34	20 26	16 52	4 3	3 48	1 49		n.a.
M 5	7 22	8 26	3 26	18 11	2 2	13 25	3 3	23 37	0 14	19 21	1 25	22 38	1 7	23 58	0 29	23 6	0 34	20 26	16 51	4 3	3 49	1 51		n.a.
T 6	6 59	11 38	4 11	17 50	2 7	13 50	3 8	23 41	0 15	19 22	1 25	22 39	1 7	23 58	0 29	23 6	0 34	20 25	16 51	4 2	3 50	1 53		n.a.
W 7	6 37	14 22	4 46	17 26	2 10	14 15	3 13	23 44	0 16	19 24	1 25	22 39	1 7	23 58	0 29	23 6	0 34	20 24	16 51	4 2	3 52	1 55		n.a.
T 8	6 14	16 32	5 9	17 2	2 14	14 40	3 18	23 48	0 18	19 25	1 25	22 39	1 7	23 58	0 29	23 6	0 34	20 24	16 51	4 2	3 53	1 57		n.a.
F 9	5 51	17 57	5 18	16 36	2 16	15 5	3 23	23 52	0 19	19 26	1 25	22 40	1 7	23 58	0 29	23 6	0 34	20 23	16 51	4 2	3 54	1 59		n.a.
S 10	5 28	18 31	5 11	16 8	2 19	15 29	3 28	23 55	0 20	19 28	1 25	22 40	1 7	23 58	0 29	23 6	0 34	20 23	16 51	4 2	3 55	2 1		n.a.
S 11	5 5	18 5	4 48	15 38	2 21	15 52	3 33	23 58	0 22	19 29	1 25	22 40	1 7	23 58	0 29	23 6	0 34	20 22	16 51	4 2	3 57	2 3		n.a.
M12	4 41	16 36	4 8	15 8	2 22	16 16	3 38	24 1	0 23	19 30	1 24	22 41	1 7	23 58	0 29	23 6	0 34	20 22	16 51	4 2	3 58	2 4		n.a.
T 13	4 18	14 4	3 12	14 35	2 23	16 39	3 42	24 4	0 25	19 31	1 24	22 41	1 7	23 58	0 29	23 6	0 34	20 21	16 51	4 2	3 59	2 6		n.a.
W14	3 55	10 35	2 2	14 1	2 23	17 1	3 47	24 6	0 26	19 32	1 24	22 41	1 7	23 58	0 29	23 6	0 34	20 20	16 51	4 2	4 0	2 8		n.a.
T 15	3 32	6 21	0 42	13 26	2 23	17 23	3 52	24 9	0 28	19 33	1 24	22 42	1 7	23 58	0 29	23 6	0 34	20 20	16 51	4 2	4 2	2 10		n.a.
F 16	3 8	1 40	0s42	12 49	2 22	17 44	3 56	24 11	0 29	19 34	1 24	22 42	1 7	23 58	0 29	23 6	0 34	20 19	16 51	4 2	4 3	2 12		n.a.
S 17	2 45	3n 9	2 3	12 10	2 21	18 5	4 1	24 13	0 31	19 35	1 24	22 42	1 7	23 58	0 28	23 6	0 34	20 19	16 51	4 2	4 4	2 14		n.a.
S 18	2 21	7 43	3 15	11 30	2 19	18 26	4 5	24 15	0 32	19 36	1 24	22 42	1 7	23 58	0 28	23 6	0 34	20 18	16 51	4 2	4 6	2 16		n.a.
M19	1 58	11 44	4 12	10 49	2 17	18 46	4 9	24 17	0 34	19 37	1 24	22 42	1 7	23 58	0 28	23 6	0 34	20 18	16 51	4 3	4 7	2 18		n.a.
T 20	1 34	14 56	4 53	10 6	2 14	19 6	4 13	24 18	0 35	19 38	1 23	22 43	1 7	23 58	0 28	23 6	0 34	20 17	16 52	4 3	4 8	2 19		n.a.
W21	1 11	17 9	5 14	9 21	2 11	19 25	4 17	24 19	0 37	19 39	1 23	22 43	1 7	23 58	0 28	23 6	0 34	20 17	16 52	4 3	4 9	2 21		n.a.
T 22	0 48	18 19	5 17	8 35	2 7	19 43	4 21	24 21	0 39	19 39	1 23	22 43	1 7	23 58	0 28	23 6	0 34	20 16	16 52	4 3	4 11	2 23		n.a.
F 23	0 24	18 27	5 2	7 48	2 2	20 1	4 25	24 22	0 40	19 40	1 23	22 43	1 7	23 58	0 28	23 6	0 34	20 16	16 52	4 3	4 12	2 25		n.a.
S 24	0 1	17 36	4 33	6 59	1 57	20 19	4 29	24 22	0 42	19 40	1 23	22 43	1 7	23 58	0 28	23 6	0 34	20 15	16 52	4 3	4 13	2 27		n.a.
S 25	0n23	15 54	3 51	6 8	1 52	20 36	4 33	24 23	0 44	19 41	1 23	22 43	1 7	23 58	0 28	23 6	0 34	20 15	16 52	4 3	4 14	2 29		n.a.
M26	0 46	13 29	2 59	5 17	1 46	20 52	4 36	24 23	0 45	19 41	1 23	22 43	1 7	23 58	0 28	23 6	0 34	20 14	16 52	4 2	4 16	2 31		n.a.
T 27	1 10	10 32	2 0	4 24	1 39	21 8	4 40	24 24	0 47	19 42	1 22	22 43	1 7	23 58	0 28	23 6	0 34	20 14	16 52	4 2	4 17	2 33		n.a.
W28	1 33	7 9	0 57	3 30	1 32	21 23	4 43	24 24	0 49	19 42	1 22	22 43	1 7	23 58	0 28	23 6	0 34	20 13	16 52	4 1	4 18	2 34		n.a.
T 29	1 56	3 31	0n 9	2 34	1 25	21 37	4 46	24 24	0 51	19 43	1 22	22 43	1 7	23 58	0 28	23 6	0 34	20 13	16 52	4 1	4 19	2 36		n.a.
F 30	2 20	0s14	1 14	1 38	1 17	21 51	4 49	24 24	0 52	19 43	1 22	22 43	1 7	23 58	0 28	23 6	0 34	20 12	16 52	4 1	4 21	2 38		n.a.
S 31	2n43	3s58	2n15	0s41	1s 8	22n 5	4n51	24s23	0s54	19n43	1n22	22n43	1n 7	23n58	0n28	23s 6	0n34	20s12	16s52	4n 2	4n22	2s40		n.a.

Julian Day Number = 1668886.5, Delta T = 03h21m39s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'10, Lahiri = - 5°56'09 Julian Calendar 1 March 144 BCE == Greg. Calendar 26 Feb. 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

APRIL 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 24 2	7♈44'03	27♎ 1	3♈ 0	18♉43	8♑17	8°R15	23♋36	7♋36	3♑27	18♓ 6	19°R53	19♍ 2	11♎13	n.a.	S 1
M 2	12 27 58	8°42'06	8♏54	5° 6	19°17	8°55	8♌14	23°37	7°37	3°28	18° 8	19♍51	18°59	11°20	n.a.	M 2
T 3	12 31 55	9°40'08	20°52	7°13	19°50	9°33	8°13	23°37	7°37	3°28	18° 9	19°47	18°56	11°27	n.a.	T 3
W 4	12 35 51	10°38'08	2♐59	9°22	20°21	10°11	8°12	23°38	7°38	3°28	18°10	19°44	18°53	11°33	n.a.	W 4
T 5	12 39 48	11°36'06	15°16	11°31	20°51	10°49	8°11	23°39	7°39	3°28	18°12	19°42	18°49	11°40	n.a.	T 5
F 6	12 43 44	12°34'03	27°49	13°40	21°20	11°27	8°11	23°39	7°40	3°28	18°13	19°40	18°46	11°47	n.a.	F 6
S 7	12 47 41	13°31'59	10♑39	15°50	21°47	12° 5	8°11	23°40	7°41	3°28	18°14	19°D39	18°43	11°53	n.a.	S 7
S 8	12 51 37	14°29'53	23°50	18° 0	22°12	12°43	8°D11	23°41	7°42	3°28	18°16	19°39	18°40	12° 0	n.a.	S 8
M 9	12 55 34	15°27'46	7♒25	20°10	22°36	13°20	8°11	23°42	7°43	3°R28	18°17	19°41	18°37	12° 7	n.a.	M 9
T 10	12 59 30	16°25'37	21°25	22°20	22°57	13°58	8°11	23°43	7°44	3°28	18°18	19°42	18°34	12°13	n.a.	T 10
W11	13 3 27	17°23'27	5♓50	24°28	23°17	14°35	8°12	23°45	7°46	3°28	18°19	19°43	18°30	12°20	n.a.	W11
T 12	13 7 24	18°21'16	20°37	26°36	23°36	15°13	8°12	23°46	7°47	3°28	18°21	19°R44	18°27	12°27	n.a.	T 12
F 13	13 11 20	19°19'03	5♈41	28°42	23°52	15°50	8°13	23°48	7°48	3°28	18°22	19°43	18°24	12°33	n.a.	F 13
S 14	13 15 17	20°16'49	20°53	0♉46	24° 6	16°27	8°14	23°49	7°49	3°28	18°23	19°41	18°21	12°40	n.a.	S 14
S 15	13 19 13	21°14'33	6♉ 4	2°49	24°18	17° 4	8°16	23°51	7°51	3°28	18°25	19°37	18°18	12°47	n.a.	S 15
M16	13 23 10	22°12'16	21° 4	4°50	24°28	17°41	8°17	23°53	7°52	3°27	18°26	19°33	18°15	12°53	n.a.	M16
T 17	13 27 6	23° 9'58	5♊45	6°48	24°36	18°18	8°19	23°55	7°54	3°27	18°27	19°28	18°11	13° 0	n.a.	T 17
W18	13 31 3	24° 7'38	20° 0	8°44	24°42	18°55	8°20	23°57	7°55	3°27	18°28	19°24	18° 8	13° 7	n.a.	W18
T 19	13 34 59	25° 5'16	3♋46	10°38	24°45	19°31	8°22	23°59	7°57	3°27	18°29	19°20	18° 5	13°13	n.a.	T 19
F 20	13 38 56	26° 2'52	17° 5	12°28	24°R47	20° 8	8°24	24° 1	7°59	3°26	18°31	19°19	18° 2	13°20	n.a.	F 20
S 21	13 42 53	27° 0'27	29°58	14°16	24°45	20°44	8°27	24° 3	8° 0	3°26	18°32	19°D18	17°59	13°27	n.a.	S 21
S 22	13 46 49	27°58'00	12♌29	16° 1	24°42	21°21	8°29	24° 6	8° 2	3°25	18°33	19°19	17°55	13°33	n.a.	S 22
M23	13 50 46	28°55'32	24°43	17°43	24°36	21°57	8°32	24° 8	8° 4	3°25	18°34	19°21	17°52	13°40	n.a.	M23
T 24	13 54 42	29°53'02	6♍44	19°21	24°27	22°33	8°35	24°11	8° 6	3°25	18°35	19°22	17°49	13°46	n.a.	T 24
W25	13 58 39	0♉50'31	18°36	20°57	24°16	23° 9	8°38	24°14	8° 8	3°24	18°36	19°R23	17°46	13°53	n.a.	W25
T 26	14 2 35	1°47'58	0♎25	22°30	24° 3	23°44	8°41	24°16	8° 9	3°24	18°37	19°22	17°43	14° 0	n.a.	T 26
F 27	14 6 32	2°45'24	12°12	23°59	23°47	24°20	8°44	24°19	8°11	3°23	18°38	19°20	17°40	14° 6	n.a.	F 27
S 28	14 10 28	3°42'49	24° 2	25°25	23°29	24°55	8°48	24°22	8°13	3°22	18°40	19°15	17°36	14°13	n.a.	S 28
S 29	14 14 25	4°40'12	5♏56	26°48	23° 9	25°31	8°51	24°25	8°15	3°22	18°41	19° 9	17°33	14°20	n.a.	S 29
M30	14 18 22	5♉37'35	17♏56	28♉ 7	22♉46	26♑ 6	8♌55	24♋29	8♋18	3♑21	18♓42	19♍ 1	17♍30	14♎26	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 6	7s34	3n11	0n18	0s59	22n17	4n54	24s23	0s56	19n43	1n22	22n43	1n 7	23n58	0n28	23s 6	0n34	20s11	16s52	4n 3	4n23	2s42		n.a.
M 2	3 29	10 52	3 59	1 17	0 50	22 29	4 56	24 22	0 58	19 44	1 22	22 43	1 7	23 57	0 28	23 6	0 34	20 11	16 53	4 4	4 24	2 44		n.a.
T 3	3 52	13 44	4 36	2 17	0 41	22 41	4 59	24 21	1 0	19 44	1 21	22 43	1 7	23 57	0 28	23 6	0 34	20 10	16 53	4 5	4 26	2 46		n.a.
W 4	4 15	16 3	5 2	3 17	0 31	22 51	5 0	24 20	1 1	19 44	1 21	22 43	1 7	23 57	0 28	23 6	0 34	20 10	16 53	4 6	4 27	2 48		n.a.
T 5	4 38	17 41	5 14	4 17	0 20	23 1	5 2	24 19	1 3	19 44	1 21	22 43	1 7	23 57	0 28	23 6	0 34	20 10	16 53	4 7	4 28	2 49		n.a.
F 6	5 1	18 30	5 12	5 18	0 10	23 10	5 4	24 18	1 5	19 44	1 21	22 42	1 7	23 57	0 28	23 6	0 34	20 9	16 53	4 8	4 29	2 51		n.a.
S 7	5 24	18 23	4 54	6 19	0n 1	23 19	5 5	24 16	1 7	19 44	1 21	22 42	1 7	23 57	0 28	23 6	0 34	20 9	16 53	4 8	4 31	2 53		n.a.
S 8	5 47	17 18	4 21	7 19	0 11	23 27	5 6	24 14	1 9	19 43	1 21	22 42	1 7	23 57	0 28	23 6	0 34	20 8	16 53	4 8	4 32	2 55		n.a.
M 9	6 9	15 12	3 32	8 19	0 22	23 34	5 7	24 13	1 11	19 43	1 20	22 42	1 7	23 57	0 28	23 6	0 34	20 8	16 54	4 8	4 33	2 57		n.a.
T 10	6 32	12 10	2 30	9 17	0 33	23 40	5 7	24 11	1 13	19 43	1 20	22 42	1 7	23 57	0 28	23 6	0 34	20 8	16 54	4 7	4 34	2 59		n.a.
W11	6 54	8 18	1 16	10 15	0 43	23 45	5 7	24 9	1 15	19 43	1 20	22 41	1 7	23 57	0 28	23 6	0 34	20 7	16 54	4 7	4 36	3 1		n.a.
T 12	7 16	3 50	0s 5	11 12	0 53	23 50	5 7	24 7	1 17	19 42	1 20	22 41	1 6	23 57	0 28	23 6	0 34	20 7	16 54	4 7	4 37	3 3		n.a.
F 13	7 39	0n58	1 27	12 7	1 3	23 53	5 6	24 4	1 19	19 42	1 20	22 41	1 6	23 57	0 28	23 6	0 34	20 7	16 54	4 7	4 38	3 4		n.a.
S 14	8 1	5 44	2 43	13 1	1 13	23 56	5 6	24 2	1 21	19 41	1 20	22 40	1 6	23 57	0 28	23 6	0 34	20 6	16 54	4 8	4 39	3 6		n.a.
S 15	8 23	10 8	3 47	13 52	1 22	23 58	5 4	23 59	1 23	19 41	1 19	22 40	1 6	23 56	0 28	23 6	0 34	20 6	16 55	4 9	4 41	3 8		n.a.
M16	8 44	13 48	4 35	14 42	1 31	23 59	5 3	23 56	1 25	19 40	1 19	22 40	1 6	23 56	0 28	23 6	0 34	20 6	16 55	4 11	4 42	3 10		n.a.
T 17	9 6	16 32	5 4	15 30	1 39	23 59	5 1	23 53	1 28	19 40	1 19	22 39	1 6	23 56	0 28	23 6	0 34	20 5	16 55	4 13	4 43	3 12		n.a.
W18	9 28	18 8	5 12	16 15	1 47	23 58	4 58	23 50	1 30	19 39	1 19	22 39	1 6	23 56	0 28	23 6	0 34	20 5	16 55	4 15	4 45	3 14		n.a.
T 19	9 49	18 37	5 3	16 58	1 54	23 56	4 55	23 47	1 32	19 38	1 19	22 39	1 6	23 56	0 28	23 6	0 34	20 5	16 55	4 16	4 46	3 16		n.a.
F 20	10 10	18 2	4 37	17 39	2 0	23 53	4 52	23 44	1 34	19 38	1 18	22 38	1 6	23 56	0 28	23 6	0 34	20 4	16 56	4 17	4 47	3 18		n.a.
S 21	10 31	16 31	3 57	18 18	2 6	23 49	4 48	23 41	1 36	19 37	1 18	22 38	1 6	23 56	0 28	23 6	0 34	20 4	16 56	4 17	4 48	3 19		n.a.
S 22	10 52	14 15	3 8	18 54	2 10	23 44	4 44	23 37	1 39	19 36	1 18	22 37	1 6	23 56	0 28	23 6	0 34	20 4	16 56	4 16	4 50	3 21		n.a.
M23	11 13	11 23	2 10	19 27	2 15	23 38	4 39	23 34	1 41	19 35	1 18	22 37	1 6	23 56	0 28	23 6	0 34	20 4	16 56	4 16	4 51	3 23		n.a.
T 24	11 33	8 5	1 8	19 58	2 18	23 31	4 34	23 30	1 43	19 34	1 18	22 36	1 6	23 55	0 28	23 6	0 34	20 3	16 57	4 15	4 52	3 25		n.a.
W25	11 54	4 30	0 4	20 27	2 21	23 23	4 28	23 26	1 46	19 33	1 18	22 36	1 6	23 55	0 28	23 6	0 34	20 3	16 57	4 15	4 53	3 27		n.a.
T 26	12 14	0 45	1n 0	20 54	2 22	23 13	4 22	23 22	1 48	19 32	1 17	22 35	1 6	23 55	0 28	23 6	0 34	20 3	16 57	4 15	4 55	3 29		n.a.
F 27	12 34	3s 2	2 1	21 18	2 23	23 2	4 15	23 18	1 50	19 31	1 17	22 35	1 6	23 55	0 28	23 6	0 34	20 3	16 57	4 16	4 56	3 31		n.a.
S 28	12 54	6 41	2 57	21 39	2 24	22 50	4 7	23 14	1 53	19 30	1 17	22 34	1 6	23 55	0 28	23 6	0 34	20 2	16 57	4 18	4 57	3 33		n.a.
S 29	13 13	10 7	3 45	21 59	2 23	22 37	3 59	23 10	1 55	19 29	1 17	22 34	1 6	23 55	0 28	23 6	0 34	20 2	16 58	4 21	4 58	3 34		n.a.
M30	13n33	13s 9	4n24	22n16	2n22	22n23	3n51	23s 5	1s58	19n28	1n17	22n33	1n 6	23n55	0n28	23s 6	0n34	20s 2	16s58	4n24	5n 0	3s36		n.a.

Julian Day Number = 1668917.5, Delta T = 03h21m38s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'05, Lahiri = - 5°56'05 Julian Calendar 1 Apr. 144 BCE == Greg. Calendar 29 March 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

MAY 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 22 18	6♉34'57	0♐ 3	29♉24	22°R21	26♑41	8♌59	24♋32	8♋20	3°R20	18♓43	18°R52	17♍27	14♎33	n.a.	T 1
W 2	14 26 15	7°32'17	12°20	0♊36	21♉54	27°16	9° 3	24°35	8°22	3♑20	18°44	18♍44	17°24	14°40	n.a.	W 2
T 3	14 30 11	8°29'37	24°47	1°46	21°25	27°50	9° 8	24°39	8°24	3°19	18°45	18°36	17°21	14°46	n.a.	T 3
F 4	14 34 8	9°26'57	7♑26	2°52	20°55	28°25	9°12	24°42	8°26	3°18	18°46	18°30	17°17	14°53	n.a.	F 4
S 5	14 38 4	10°24'15	20°20	3°54	20°23	28°59	9°17	24°46	8°29	3°17	18°47	18°26	17°14	15° 0	n.a.	S 5
S 6	14 42 1	11°21'33	3♒30	4°53	19°49	29°33	9°22	24°50	8°31	3°17	18°48	18°24	17°11	15° 6	n.a.	S 6
M 7	14 45 57	12°18'50	17° 0	5°48	19°14	0♒ 7	9°27	24°53	8°33	3°16	18°49	18°D24	17° 8	15°13	n.a.	M 7
T 8	14 49 54	13°16'07	0♓50	6°39	18°39	0°41	9°32	24°57	8°36	3°15	18°50	18°24	17° 5	15°20	n.a.	T 8
W 9	14 53 51	14°13'23	15° 1	7°26	18° 2	1°15	9°37	25° 1	8°38	3°14	18°50	18°R25	17° 1	15°26	n.a.	W 9
T 10	14 57 47	15°10'39	29°33	8°10	17°25	1°48	9°42	25° 5	8°41	3°13	18°51	18°25	16°58	15°33	n.a.	T 10
F 11	15 1 44	16° 7'54	14♈22	8°49	16°47	2°21	9°48	25° 9	8°43	3°12	18°52	18°22	16°55	15°40	n.a.	F 11
S 12	15 5 40	17° 5'09	29°23	9°24	16°10	2°54	9°54	25°14	8°46	3°11	18°53	18°18	16°52	15°46	n.a.	S 12
S 13	15 9 37	18° 2'23	14♉27	9°55	15°32	3°27	9°59	25°18	8°49	3°10	18°54	18°11	16°49	15°53	n.a.	S 13
M14	15 13 33	18°59'37	29°24	10°22	14°55	3°59	10° 5	25°22	8°51	3° 9	18°55	18° 2	16°46	16° 0	n.a.	M14
T 15	15 17 30	19°56'49	14♊ 6	10°44	14°18	4°31	10°11	25°27	8°54	3° 8	18°55	17°53	16°42	16° 6	n.a.	T 15
W16	15 21 26	20°54'02	28°25	11° 2	13°43	5° 3	10°18	25°31	8°57	3° 7	18°56	17°44	16°39	16°13	n.a.	W16
T 17	15 25 23	21°51'13	12♋17	11°15	13° 8	5°35	10°24	25°36	8°59	3° 6	18°57	17°36	16°36	16°20	n.a.	T 17
F 18	15 29 20	22°48'24	25°40	11°24	12°35	6° 6	10°31	25°41	9° 2	3° 5	18°58	17°31	16°33	16°26	n.a.	F 18
S 19	15 33 16	23°45'34	8♌36	11°R28	12° 3	6°37	10°37	25°45	9° 5	3° 4	18°59	17°28	16°30	16°33	n.a.	S 19
S 20	15 37 13	24°42'43	21° 8	11°28	11°32	7° 8	10°44	25°50	9° 8	3° 2	18°59	17°D27	16°26	16°40	n.a.	S 20
M21	15 41 9	25°39'52	3♍22	11°23	11° 4	7°39	10°51	25°55	9°11	3° 1	19° 0	17°27	16°23	16°46	n.a.	M21
T 22	15 45 6	26°37'00	15°22	11°13	10°37	8° 9	10°58	26° 0	9°14	3° 0	19° 1	17°R28	16°20	16°53	n.a.	T 22
W23	15 49 2	27°34'07	27°13	11° 0	10°12	8°39	11° 5	26° 5	9°17	2°59	19° 1	17°27	16°17	17° 0	n.a.	W23
T 24	15 52 59	28°31'14	9♎ 1	10°42	9°50	9° 9	11°13	26°10	9°20	2°57	19° 2	17°25	16°14	17° 6	n.a.	T 24
F 25	15 56 55	29°28'20	20°49	10°21	9°30	9°38	11°20	26°15	9°23	2°56	19° 2	17°21	16°11	17°13	n.a.	F 25
S 26	16 0 52	0♊25'26	2♏43	9°56	9°12	10° 8	11°28	26°21	9°26	2°55	19° 3	17°14	16° 7	17°20	n.a.	S 26
S 27	16 4 49	1°22'32	14°43	9°28	8°56	10°36	11°35	26°26	9°29	2°54	19° 4	17° 4	16° 4	17°26	n.a.	S 27
M28	16 8 45	2°19'37	26°53	8°57	8°43	11° 5	11°43	26°31	9°32	2°52	19° 4	16°53	16° 1	17°33	n.a.	M28
T 29	16 12 42	3°16'42	9♐14	8°25	8°32	11°33	11°51	26°37	9°35	2°51	19° 5	16°40	15°58	17°40	n.a.	T 29
W30	16 16 38	4°13'48	21°45	7°50	8°23	12° 1	11°59	26°42	9°38	2°50	19° 5	16°27	15°55	17°46	n.a.	W30
T 31	16 20 35	5♊10'53	4♑28	7♊14	8♉17	12♒28	12♌ 7	26♋48	9♋41	2♑48	19♓ 6	16♍16	15♍52	17♎53	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	13n52	15s39	4n51	22n31	2n20	22n 8	3n41	23s 1	2s 0	19n27	1n17	22n32	1n 6	23n54	0n28	23s 6	0n34	20s 2	16s58	4n27	5n 1	3s38			n.a.
W 2	14 11	17 29	5 5	22 44	2 16	21 51	3 32	22 57	2 2	19 25	1 16	22 32	1 6	23 54	0 28	23 6	0 34	20 2	16 58	4 31	5 2	3 40			n.a.
T 3	14 30	18 31	5 6	22 55	2 13	21 33	3 21	22 52	2 5	19 24	1 16	22 31	1 6	23 54	0 28	23 6	0 34	20 2	16 59	4 34	5 3	3 42			n.a.
F 4	14 48	18 40	4 51	23 3	2 8	21 15	3 11	22 47	2 7	19 23	1 16	22 30	1 6	23 54	0 28	23 6	0 34	20 1	16 59	4 36	5 5	3 44			n.a.
S 5	15 6	17 51	4 21	23 10	2 2	20 55	2 59	22 43	2 10	19 21	1 16	22 30	1 6	23 54	0 28	23 6	0 34	20 1	16 59	4 38	5 6	3 46			n.a.
S 6	15 25	16 4	3 37	23 15	1 56	20 34	2 47	22 38	2 13	19 20	1 16	22 29	1 6	23 54	0 28	23 6	0 34	20 1	17 0	4 38	5 7	3 48			n.a.
M 7	15 42	13 22	2 41	23 18	1 49	20 13	2 35	22 33	2 15	19 18	1 16	22 28	1 6	23 53	0 28	23 6	0 34	20 1	17 0	4 38	5 8	3 49			n.a.
T 8	16 0	9 51	1 33	23 19	1 41	19 51	2 23	22 28	2 18	19 17	1 15	22 27	1 6	23 53	0 28	23 6	0 34	20 1	17 0	4 38	5 10	3 51			n.a.
W 9	16 17	5 41	0 18	23 19	1 32	19 28	2 10	22 23	2 21	19 15	1 15	22 27	1 6	23 53	0 28	23 6	0 34	20 1	17 0	4 38	5 11	3 53			n.a.
T 10	16 34	1 5	0s59	23 17	1 23	19 5	1 56	22 19	2 23	19 14	1 15	22 26	1 6	23 53	0 28	23 6	0 34	20 1	17 1	4 38	5 12	3 55			n.a.
F 11	16 51	3n40	2 14	23 13	1 12	18 41	1 43	22 14	2 26	19 12	1 15	22 25	1 6	23 53	0 28	23 6	0 34	20 1	17 1	4 39	5 13	3 57			n.a.
S 12	17 8	8 15	3 21	23 7	1 1	18 17	1 29	22 8	2 29	19 10	1 15	22 24	1 6	23 53	0 28	23 6	0 34	20 1	17 1	4 41	5 15	3 59			n.a.
S 13	17 24	12 19	4 14	23 0	0 49	17 52	1 15	22 3	2 31	19 8	1 15	22 24	1 6	23 52	0 28	23 6	0 34	20 0	17 2	4 44	5 16	4 1			n.a.
M14	17 40	15 33	4 49	22 52	0 37	17 28	1 1	21 58	2 34	19 7	1 14	22 23	1 6	23 52	0 28	23 6	0 34	20 0	17 2	4 47	5 17	4 2			n.a.
T 15	17 56	17 43	5 4	22 42	0 24	17 4	0 47	21 53	2 37	19 5	1 14	22 22	1 6	23 52	0 28	23 6	0 34	20 0	17 2	4 51	5 18	4 4			n.a.
W16	18 11	18 43	4 59	22 31	0 10	16 39	0 33	21 48	2 40	19 3	1 14	22 21	1 6	23 52	0 28	23 6	0 34	20 0	17 3	4 54	5 20	4 6			n.a.
T 17	18 26	18 32	4 37	22 18	0s 5	16 16	0 19	21 43	2 43	19 1	1 14	22 20	1 6	23 52	0 28	23 6	0 34	20 0	17 3	4 57	5 21	4 8			n.a.
F 18	18 41	17 19	4 0	22 5	0 20	15 52	0 5	21 38	2 46	18 59	1 14	22 19	1 6	23 51	0 28	23 6	0 34	20 0	17 3	4 59	5 22	4 10			n.a.
S 19	18 55	15 14	3 12	21 50	0 35	15 29	0s 9	21 33	2 48	18 57	1 14	22 18	1 5	23 51	0 28	23 6	0 34	20 0	17 4	5 0	5 23	4 12			n.a.
S 20	19 10	12 28	2 16	21 34	0 51	15 7	0 22	21 27	2 51	18 55	1 14	22 17	1 5	23 51	0 28	23 6	0 34	20 0	17 4	5 1	5 25	4 14			n.a.
M21	19 24	9 14	1 15	21 17	1 7	14 46	0 35	21 22	2 54	18 53	1 13	22 16	1 5	23 51	0 28	23 6	0 34	20 0	17 4	5 1	5 26	4 16			n.a.
T 22	19 37	5 40	0 11	21 0	1 24	14 25	0 48	21 17	2 57	18 51	1 13	22 15	1 5	23 51	0 28	23 6	0 34	20 0	17 5	5 1	5 27	4 17			n.a.
W23	19 50	1 55	0n52	20 42	1 40	14 5	1 1	21 12	3 0	18 49	1 13	22 15	1 5	23 50	0 28	23 6	0 34	20 0	17 5	5 1	5 28	4 19			n.a.
T 24	20 3	1s54	1 52	20 23	1 57	13 47	1 13	21 7	3 3	18 47	1 13	22 14	1 5	23 50	0 28	23 6	0 34	20 0	17 5	5 2	5 30	4 21			n.a.
F 25	20 16	5 38	2 48	20 4	2 13	13 29	1 25	21 2	3 6	18 44	1 13	22 13	1 5	23 50	0 27	23 6	0 34	20 1	17 6	5 3	5 31	4 23			n.a.
S 26	20 28	9 10	3 36	19 44	2 29	13 12	1 36	20 57	3 10	18 42	1 13	22 11	1 5	23 50	0 27	23 6	0 34	20 1	17 6	5 6	5 32	4 25			n.a.
S 27	20 40	12 22	4 15	19 25	2 45	12 57	1 47	20 52	3 13	18 40	1 13	22 10	1 5	23 49	0 27	23 6	0 34	20 1	17 6	5 10	5 33	4 27			n.a.
M28	20 52	15 5	4 43	19 5	3 0	12 43	1 58	20 47	3 16	18 37	1 12	22 9	1 5	23 49	0 27	23 6	0 34	20 1	17 7	5 14	5 35	4 29			n.a.
T 29	21 3	17 10	4 58	18 46	3 14	12 29	2 8	20 42	3 19	18 35	1 12	22 8	1 5	23 49	0 27	23 6	0 34	20 1	17 7	5 19	5 36	4 30			n.a.
W30	21 14	18 28	5 0	18 27	3 27	12 18	2 17	20 37	3 22	18 33	1 12	22 7	1 5	23 49	0 27	23 6	0 34	20 1	17 7	5 24	5 37	4 32			n.a.
T 31	21n24	18s52	4n46	18n 9	3s39	12n 7	2s27	20s32	3s25	18n30	1n12	22n 6	1n 5	23n48	0n27	23s 7	0n34	20s 1	17s 8	5n29	5n38	4s34			n.a.

Julian Day Number = 1668947.5, Delta T = 03h21m37s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°03'01, Lahiri = - 5°56'01 Julian Calendar 1 May 144 BCE == Greg. Calendar 28 Apr. 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

JUNE 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 24 31	6♊ 7'58	17♑22	6°R38	8°R13	12♒55	12♌16	26♋54	9♋44	2°R47	19♓ 6	16°R 7	15♍48	18♎ 0	n.a.	F 1
S 2	16 28 28	7° 5'04	0♒28	6♊ 2	8°D12	13°22	12°24	26°59	9°48	2♑45	19° 7	16♍ 0	15°45	18° 6	n.a.	S 2
S 3	16 32 25	8° 2'10	13°47	5°27	8♉13	13°48	12°33	27° 5	9°51	2°44	19° 7	15°56	15°42	18°13	n.a.	S 3
M 4	16 36 21	8°59'16	27°19	4°53	8°16	14°14	12°41	27°11	9°54	2°43	19° 7	15°54	15°39	18°20	n.a.	M 4
T 5	16 40 18	9°56'22	11♓ 6	4°21	8°22	14°40	12°50	27°17	9°58	2°41	19° 8	15°54	15°36	18°26	n.a.	T 5
W 6	16 44 14	10°53'29	25° 8	3°51	8°29	15° 5	12°59	27°23	10° 1	2°40	19° 8	15°54	15°32	18°33	n.a.	W 6
T 7	16 48 11	11°50'36	9♈25	3°25	8°39	15°30	13° 8	27°29	10° 4	2°38	19° 9	15°53	15°29	18°40	n.a.	T 7
F 8	16 52 7	12°47'44	23°55	3° 2	8°51	15°54	13°17	27°35	10° 8	2°37	19° 9	15°50	15°26	18°46	n.a.	F 8
S 9	16 56 4	13°44'52	8♉36	2°43	9° 5	16°17	13°26	27°41	10°11	2°35	19° 9	15°44	15°23	18°53	n.a.	S 9
S 10	17 0 0	14°42'01	23°20	2°28	9°21	16°41	13°35	27°47	10°14	2°34	19° 9	15°35	15°20	19° 0	n.a.	S 10
M11	17 3 57	15°39'10	8♊ 0	2°18	9°39	17° 3	13°45	27°53	10°18	2°32	19°10	15°24	15°17	19° 6	n.a.	M11
T 12	17 7 54	16°36'20	22°29	2°13	9°59	17°26	13°54	28° 0	10°21	2°31	19°10	15°13	15°13	19°13	n.a.	T 12
W13	17 11 50	17°33'30	6♋39	2°D12	10°20	17°48	14° 4	28° 6	10°25	2°29	19°10	15° 2	15°10	19°20	n.a.	W13
T 14	17 15 47	18°30'41	20°26	2°17	10°43	18° 9	14°13	28°12	10°28	2°27	19°10	14°52	15° 7	19°26	n.a.	T 14
F 15	17 19 43	19°27'51	3♌48	2°28	11° 8	18°29	14°23	28°19	10°32	2°26	19°11	14°45	15° 4	19°33	n.a.	F 15
S 16	17 23 40	20°25'02	16°44	2°43	11°34	18°50	14°33	28°25	10°35	2°24	19°11	14°40	15° 1	19°40	n.a.	S 16
S 17	17 27 36	21°22'13	29°18	3° 5	12° 2	19° 9	14°43	28°32	10°39	2°23	19°11	14°38	14°58	19°46	n.a.	S 17
M18	17 31 33	22°19'24	11♍33	3°31	12°32	19°28	14°53	28°38	10°42	2°21	19°11	14°D38	14°54	19°53	n.a.	M18
T 19	17 35 29	23°16'36	23°33	4° 4	13° 3	19°47	15° 3	28°45	10°46	2°19	19°11	14°R38	14°51	20° 0	n.a.	T 19
W20	17 39 26	24°13'48	5♎26	4°41	13°35	20° 5	15°13	28°52	10°49	2°18	19°11	14°37	14°48	20° 6	n.a.	W20
T 21	17 43 23	25°11'00	17°15	5°25	14° 8	20°22	15°23	28°58	10°53	2°16	19°11	14°35	14°45	20°13	n.a.	T 21
F 22	17 47 19	26° 8'13	29° 6	6°13	14°43	20°39	15°34	29° 5	10°57	2°15	19°R11	14°31	14°42	20°20	n.a.	F 22
S 23	17 51 16	27° 5'26	11♏ 3	7° 7	15°19	20°55	15°44	29°12	11° 0	2°13	19°11	14°25	14°38	20°26	n.a.	S 23
S 24	17 55 12	28° 2'40	23°11	8° 6	15°57	21°10	15°55	29°19	11° 4	2°11	19°11	14°16	14°35	20°33	n.a.	S 24
M25	17 59 9	28°59'54	5♐31	9°11	16°35	21°25	16° 5	29°26	11° 8	2°10	19°11	14° 5	14°32	20°40	n.a.	M25
T 26	18 3 5	29°57'09	18° 5	10°20	17°14	21°39	16°16	29°33	11°11	2° 8	19°11	13°53	14°29	20°46	n.a.	T 26
W27	18 7 2	0♋54'25	0♑53	11°35	17°55	21°53	16°27	29°39	11°15	2° 7	19°11	13°41	14°26	20°53	n.a.	W27
T 28	18 10 58	1°51'42	13°56	12°54	18°37	22° 6	16°38	29°46	11°18	2° 5	19°11	13°30	14°23	21° 0	n.a.	T 28
F 29	18 14 55	2°49'00	27°11	14°18	19°19	22°18	16°49	29°53	11°22	2° 3	19°11	13°21	14°19	21° 6	n.a.	F 29
S 30	18 18 52	3♋46'19	10♒38	15♊47	20♉ 3	22♒29	16♌59	0♌ 0	11♋26	2♑ 2	19♓11	13♍14	14♍16	21♎13	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n35	18s18	4n18	17n53	3s51	11n57	2s35	20s27	3s28	18n28	1n12	22n 5	1n 5	23n48	0n27	23s 7	0n34	20s 1	17s 8	5n32	5n40	4s36		n.a.
S 2	21 44	16 46	3 36	17 37	4 0	11 49	2 44	20 22	3 32	18 25	1 12	22 4	1 5	23 48	0 27	23 7	0 34	20 1	17 8	5 35	5 41	4 38		n.a.
S 3	21 54	14 18	2 41	17 22	4 9	11 42	2 51	20 18	3 35	18 23	1 12	22 3	1 5	23 48	0 27	23 7	0 34	20 2	17 9	5 36	5 42	4 40		n.a.
M 4	22 3	11 2	1 37	17 9	4 16	11 36	2 59	20 13	3 38	18 20	1 12	22 2	1 5	23 47	0 27	23 7	0 34	20 2	17 9	5 37	5 43	4 42		n.a.
T 5	22 12	7 6	0 25	16 58	4 22	11 31	3 6	20 9	3 42	18 17	1 11	22 0	1 5	23 47	0 27	23 7	0 34	20 2	17 9	5 37	5 44	4 44		n.a.
W 6	22 20	2 42	0s49	16 49	4 26	11 27	3 12	20 4	3 45	18 15	1 11	21 59	1 5	23 47	0 27	23 7	0 34	20 2	17 10	5 37	5 46	4 45		n.a.
T 7	22 28	1n55	2 1	16 41	4 28	11 25	3 19	20 0	3 48	18 12	1 11	21 58	1 5	23 47	0 27	23 7	0 34	20 2	17 10	5 38	5 47	4 47		n.a.
F 8	22 35	6 30	3 7	16 36	4 29	11 23	3 24	19 56	3 52	18 9	1 11	21 57	1 5	23 46	0 27	23 7	0 34	20 2	17 10	5 39	5 48	4 49		n.a.
S 9	22 42	10 44	4 0	16 32	4 29	11 22	3 30	19 52	3 55	18 7	1 11	21 56	1 5	23 46	0 27	23 7	0 34	20 3	17 11	5 41	5 49	4 51		n.a.
S 10	22 49	14 19	4 39	16 31	4 27	11 23	3 35	19 48	3 59	18 4	1 11	21 54	1 5	23 46	0 27	23 7	0 34	20 3	17 11	5 45	5 51	4 53		n.a.
M11	22 56	16 59	4 58	16 33	4 24	11 24	3 39	19 44	4 2	18 1	1 11	21 53	1 5	23 46	0 27	23 7	0 34	20 3	17 11	5 49	5 52	4 55		n.a.
T 12	23 2	18 32	4 58	16 36	4 19	11 26	3 44	19 40	4 5	17 58	1 11	21 52	1 5	23 45	0 27	23 7	0 34	20 3	17 12	5 53	5 53	4 57		n.a.
W13	23 7	18 53	4 40	16 42	4 14	11 29	3 47	19 37	4 9	17 55	1 10	21 51	1 5	23 45	0 27	23 7	0 34	20 4	17 12	5 58	5 54	4 58		n.a.
T 14	23 12	18 6	4 5	16 49	4 7	11 33	3 51	19 33	4 12	17 52	1 10	21 49	1 5	23 45	0 27	23 7	0 34	20 4	17 13	6 1	5 56	5 0		n.a.
F 15	23 17	16 19	3 18	16 59	3 59	11 38	3 54	19 30	4 16	17 49	1 10	21 48	1 5	23 45	0 27	23 7	0 34	20 4	17 13	6 4	5 57	5 2		n.a.
S 16	23 22	13 44	2 22	17 11	3 50	11 43	3 57	19 27	4 20	17 46	1 10	21 47	1 5	23 44	0 27	23 7	0 34	20 4	17 13	6 6	5 58	5 4		n.a.
S 17	23 26	10 36	1 20	17 24	3 40	11 49	4 0	19 24	4 23	17 43	1 10	21 45	1 5	23 44	0 27	23 7	0 34	20 5	17 14	6 7	5 59	5 6		n.a.
M18	23 29	7 4	0 16	17 40	3 30	11 56	4 2	19 21	4 27	17 40	1 10	21 44	1 5	23 44	0 27	23 7	0 34	20 5	17 14	6 7	6 1	5 8		n.a.
T 19	23 32	3 18	0n47	17 57	3 19	12 3	4 4	19 19	4 30	17 37	1 10	21 43	1 5	23 43	0 27	23 7	0 34	20 5	17 14	6 7	6 2	5 10		n.a.
W20	23 35	0s32	1 48	18 15	3 7	12 11	4 6	19 16	4 34	17 34	1 10	21 41	1 5	23 43	0 27	23 7	0 34	20 5	17 15	6 7	6 3	5 11		n.a.
T 21	23 37	4 20	2 44	18 35	2 54	12 20	4 7	19 14	4 37	17 31	1 10	21 40	1 6	23 43	0 27	23 7	0 34	20 6	17 15	6 8	6 4	5 13		n.a.
F 22	23 39	7 58	3 33	18 56	2 42	12 29	4 8	19 12	4 41	17 27	1 10	21 38	1 6	23 42	0 27	23 7	0 34	20 6	17 16	6 10	6 6	5 15		n.a.
S 23	23 41	11 19	4 13	19 18	2 28	12 38	4 9	19 10	4 44	17 24	1 9	21 37	1 6	23 42	0 27	23 7	0 34	20 6	17 16	6 12	6 7	5 17		n.a.
S 24	23 42	14 14	4 42	19 41	2 15	12 48	4 10	19 8	4 48	17 21	1 9	21 36	1 6	23 42	0 27	23 7	0 34	20 7	17 16	6 16	6 8	5 19		n.a.
M25	23 42	16 34	4 58	20 5	2 1	12 59	4 11	19 7	4 52	17 18	1 9	21 34	1 6	23 42	0 27	23 7	0 34	20 7	17 17	6 20	6 9	5 21		n.a.
T 26	23 43	18 11	5 1	20 29	1 47	13 10	4 11	19 6	4 55	17 14	1 9	21 33	1 6	23 41	0 27	23 7	0 34	20 7	17 17	6 25	6 11	5 23		n.a.
W27	23 42	18 54	4 48	20 53	1 33	13 21	4 11	19 4	4 59	17 11	1 9	21 31	1 6	23 41	0 27	23 7	0 34	20 8	17 17	6 29	6 12	5 24		n.a.
T 28	23 42	18 39	4 21	21 18	1 19	13 32	4 11	19 4	5 2	17 8	1 9	21 30	1 6	23 41	0 27	23 8	0 34	20 8	17 18	6 34	6 13	5 26		n.a.
F 29	23 41	17 23	3 39	21 42	1 5	13 44	4 11	19 3	5 6	17 4	1 9	21 28	1 6	23 40	0 27	23 8	0 34	20 9	17 18	6 37	6 14	5 28		n.a.
S 30	23n39	15s 9	2n44	22n 6	0s51	13n56	4s10	19s 2	5s10	17n 1	1n 9	21n27	1n 6	23n40	0n27	23s 8	0n34	20s 9	17s18	6n39	6n15	5s30		n.a.

Julian Day Number = 1668978.5, Delta T = 03h21m36s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'57, Lahiri = - 5°55'57 Julian Calendar 1 June 144 BCE == Greg. Calendar 29 May 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

JULY 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 22 48	4♋43'38	24♒14	17♊20	20♉47	22♒40	17♌11	0♌ 8	11♋29	2°R 0	19°R10	13°R11	14♍13	21♎20	n.a.	S 1
M 2	18 26 45	5°40'59	8♓ 0	18°57	21°33	22°50	17°22	0°15	11°33	1♑58	19♓10	13°D 9	14°10	21°27	n.a.	M 2
T 3	18 30 41	6°38'22	21°53	20°38	22°19	22°59	17°33	0°22	11°37	1°57	19°10	13♍10	14° 7	21°33	n.a.	T 3
W 4	18 34 38	7°35'45	5♈55	22°23	23° 6	23° 7	17°44	0°29	11°41	1°55	19°10	13°R10	14° 4	21°40	n.a.	W 4
T 5	18 38 34	8°33'10	20° 5	24°12	23°54	23°15	17°55	0°36	11°44	1°54	19° 9	13° 9	14° 0	21°47	n.a.	T 5
F 6	18 42 31	9°30'37	4♉20	26° 3	24°43	23°22	18° 7	0°43	11°48	1°52	19° 9	13° 7	13°57	21°53	n.a.	F 6
S 7	18 46 27	10°28'04	18°39	27°57	25°32	23°28	18°18	0°51	11°52	1°50	19° 9	13° 3	13°54	22° 0	n.a.	S 7
S 8	18 50 24	11°25'34	2♊58	29°53	26°22	23°33	18°30	0°58	11°55	1°49	19° 9	12°56	13°51	22° 7	n.a.	S 8
M 9	18 54 21	12°23'04	17°13	1♋52	27°13	23°38	18°41	1° 5	11°59	1°47	19° 8	12°47	13°48	22°13	n.a.	M 9
T 10	18 58 17	13°20'37	1♋19	3°51	28° 4	23°41	18°53	1°13	12° 3	1°46	19° 8	12°37	13°44	22°20	n.a.	T 10
W11	19 2 14	14°18'10	15° 9	5°53	28°56	23°44	19° 5	1°20	12° 6	1°44	19° 8	12°28	13°41	22°27	n.a.	W11
T 12	19 6 10	15°15'45	28°41	7°55	29°49	23°46	19°16	1°27	12°10	1°42	19° 7	12°20	13°38	22°33	n.a.	T 12
F 13	19 10 7	16°13'20	11♌53	9°57	0♊42	23°47	19°28	1°35	12°14	1°41	19° 7	12°14	13°35	22°40	n.a.	F 13
S 14	19 14 3	17°10'57	24°43	12° 0	1°36	23°R47	19°40	1°42	12°18	1°39	19° 6	12°10	13°32	22°47	n.a.	S 14
S 15	19 18 0	18° 8'36	7♍14	14° 3	2°30	23°46	19°52	1°49	12°21	1°38	19° 6	12°D 9	13°29	22°53	n.a.	S 15
M16	19 21 57	19° 6'15	19°28	16° 6	3°25	23°45	20° 4	1°57	12°25	1°36	19° 5	12° 9	13°25	23° 0	n.a.	M16
T 17	19 25 53	20° 3'55	1♎29	18° 8	4°21	23°43	20°16	2° 4	12°29	1°35	19° 5	12°10	13°22	23° 7	n.a.	T 17
W18	19 29 50	21° 1'37	13°22	20°10	5°17	23°40	20°28	2°12	12°32	1°33	19° 4	12°11	13°19	23°13	n.a.	W18
T 19	19 33 46	21°59'20	25°12	22°11	6°13	23°36	20°40	2°19	12°36	1°32	19° 4	12°R11	13°16	23°20	n.a.	T 19
F 20	19 37 43	22°57'04	7♏ 5	24°11	7°10	23°31	20°52	2°27	12°40	1°30	19° 3	12°10	13°13	23°27	n.a.	F 20
S 21	19 41 39	23°54'49	19° 4	26° 9	8° 7	23°26	21° 4	2°34	12°43	1°29	19° 3	12° 7	13°10	23°33	n.a.	S 21
S 22	19 45 36	24°52'36	1♐16	28° 7	9° 5	23°19	21°17	2°42	12°47	1°27	19° 2	12° 2	13° 6	23°40	n.a.	S 22
M23	19 49 32	25°50'24	13°42	0♌ 4	10° 3	23°12	21°29	2°49	12°51	1°26	19° 1	11°55	13° 3	23°47	n.a.	M23
T 24	19 53 29	26°48'13	26°26	1°59	11° 2	23° 4	21°41	2°57	12°54	1°24	19° 1	11°48	13° 0	23°53	n.a.	T 24
W25	19 57 25	27°46'04	9♑29	3°53	12° 1	22°56	21°54	3° 4	12°58	1°23	19° 0	11°40	12°57	24° 0	n.a.	W25
T 26	20 1 22	28°43'57	22°50	5°46	13° 0	22°47	22° 6	3°12	13° 1	1°22	18°59	11°33	12°54	24° 7	n.a.	T 26
F 27	20 5 19	29°41'51	6♒27	7°37	14° 0	22°37	22°19	3°20	13° 5	1°20	18°59	11°28	12°50	24°13	n.a.	F 27
S 28	20 9 15	0♌39'47	20°19	9°27	15° 0	22°26	22°31	3°27	13° 9	1°19	18°58	11°24	12°47	24°20	n.a.	S 28
S 29	20 13 12	1°37'44	4♓20	11°16	16° 1	22°14	22°44	3°35	13°12	1°17	18°57	11°22	12°44	24°27	n.a.	S 29
M30	20 17 8	2°35'44	18°28	13° 4	17° 2	22° 2	22°56	3°42	13°16	1°16	18°57	11°D22	12°41	24°33	n.a.	M30
T 31	20 21 5	3♌33'45	2♈41	14♌50	18♊ 3	21♒50	23♌ 9	3♌50	13♋19	1♑15	18♓56	11♍23	12♍38	24♎40	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23n37	12s 2	1n39	22n28	0s38	14n 9	4s 9	19s 2	5s13	16n57	1n 9	21n25	1n 6	23n40	0n27	23s 8	0n34	20s 9	17s19	6n41	6n17	5s32			n.a.
M 2	23 35	8 15	0 27	22 50	0 24	14 22	4 8	19 2	5 17	16 54	1 9	21 24	1 6	23 39	0 27	23 8	0 34	20 10	17 19	6 41	6 18	5 34			n.a.
T 3	23 32	3 58	0s46	23 11	0 11	14 34	4 7	19 2	5 20	16 50	1 9	21 22	1 6	23 39	0 27	23 8	0 34	20 10	17 19	6 41	6 19	5 36			n.a.
W 4	23 29	0n34	1 58	23 30	0n 1	14 47	4 6	19 3	5 24	16 47	1 9	21 21	1 6	23 39	0 27	23 8	0 34	20 11	17 20	6 41	6 20	5 37			n.a.
T 5	23 26	5 6	3 3	23 48	0 13	15 1	4 5	19 4	5 27	16 43	1 9	21 19	1 6	23 38	0 27	23 8	0 34	20 11	17 20	6 41	6 22	5 39			n.a.
F 6	23 22	9 23	3 58	24 4	0 25	15 14	4 3	19 5	5 31	16 39	1 8	21 18	1 6	23 38	0 27	23 8	0 34	20 11	17 20	6 42	6 23	5 41			n.a.
S 7	23 17	13 7	4 37	24 17	0 35	15 27	4 1	19 6	5 34	16 36	1 8	21 16	1 6	23 38	0 27	23 8	0 34	20 12	17 21	6 44	6 24	5 43			n.a.
S 8	23 13	16 5	5 0	24 28	0 45	15 41	4 0	19 7	5 38	16 32	1 8	21 15	1 6	23 37	0 27	23 8	0 34	20 12	17 21	6 47	6 25	5 45			n.a.
M 9	23 8	18 3	5 3	24 37	0 55	15 54	3 58	19 9	5 41	16 28	1 8	21 13	1 6	23 37	0 27	23 8	0 34	20 13	17 22	6 50	6 27	5 47			n.a.
T 10	23 2	18 54	4 48	24 43	1 4	16 8	3 55	19 11	5 44	16 25	1 8	21 11	1 6	23 37	0 27	23 8	0 34	20 13	17 22	6 54	6 28	5 49			n.a.
W11	22 56	18 35	4 17	24 46	1 11	16 21	3 53	19 13	5 48	16 21	1 8	21 10	1 6	23 36	0 28	23 8	0 34	20 14	17 22	6 57	6 29	5 50			n.a.
T 12	22 50	17 13	3 31	24 47	1 19	16 35	3 51	19 15	5 51	16 17	1 8	21 8	1 6	23 36	0 28	23 8	0 34	20 14	17 23	7 1	6 30	5 52			n.a.
F 13	22 43	14 56	2 35	24 44	1 25	16 48	3 48	19 18	5 54	16 13	1 8	21 7	1 6	23 36	0 28	23 8	0 34	20 15	17 23	7 3	6 32	5 54			n.a.
S 14	22 35	11 59	1 32	24 40	1 30	17 2	3 46	19 21	5 57	16 10	1 8	21 5	1 6	23 35	0 28	23 8	0 34	20 15	17 23	7 4	6 33	5 56			n.a.
S 15	22 28	8 33	0 26	24 32	1 35	17 15	3 43	19 24	6 0	16 6	1 8	21 3	1 6	23 35	0 28	23 8	0 34	20 16	17 24	7 5	6 34	5 58			n.a.
M16	22 20	4 49	0n39	24 22	1 39	17 29	3 40	19 27	6 3	16 2	1 8	21 2	1 6	23 35	0 28	23 8	0 34	20 16	17 24	7 5	6 35	6 0			n.a.
T 17	22 11	0 58	1 42	24 9	1 42	17 42	3 37	19 30	6 6	15 58	1 8	21 0	1 6	23 34	0 28	23 8	0 34	20 17	17 24	7 4	6 36	6 1			n.a.
W18	22 3	2s53	2 40	23 54	1 44	17 55	3 34	19 34	6 9	15 54	1 8	20 58	1 6	23 34	0 28	23 8	0 34	20 17	17 24	7 4	6 38	6 3			n.a.
T 19	21 54	6 35	3 31	23 36	1 46	18 8	3 31	19 38	6 11	15 50	1 8	20 57	1 7	23 34	0 28	23 8	0 34	20 18	17 25	7 4	6 39	6 5			n.a.
F 20	21 44	10 3	4 13	23 17	1 47	18 20	3 28	19 42	6 14	15 46	1 8	20 55	1 7	23 33	0 28	23 8	0 34	20 18	17 25	7 4	6 40	6 7			n.a.
S 21	21 34	13 8	4 44	22 55	1 47	18 33	3 24	19 46	6 16	15 42	1 8	20 53	1 7	23 33	0 28	23 8	0 34	20 19	17 25	7 6	6 41	6 9			n.a.
S 22	21 24	15 42	5 3	22 31	1 47	18 45	3 21	19 50	6 19	15 38	1 8	20 52	1 7	23 33	0 28	23 8	0 34	20 19	17 26	7 8	6 43	6 11			n.a.
M23	21 13	17 36	5 8	22 6	1 46	18 57	3 18	19 55	6 21	15 34	1 8	20 50	1 7	23 32	0 28	23 8	0 34	20 20	17 26	7 10	6 44	6 13			n.a.
T 24	21 2	18 41	4 58	21 38	1 45	19 9	3 14	19 59	6 23	15 30	1 8	20 48	1 7	23 32	0 28	23 8	0 34	20 20	17 26	7 13	6 45	6 14			n.a.
W25	20 51	18 49	4 33	21 10	1 43	19 20	3 10	20 4	6 25	15 26	1 8	20 47	1 7	23 32	0 28	23 9	0 34	20 21	17 27	7 16	6 46	6 16			n.a.
T 26	20 39	17 56	3 53	20 40	1 40	19 32	3 7	20 9	6 27	15 22	1 8	20 45	1 7	23 31	0 28	23 9	0 34	20 21	17 27	7 19	6 48	6 18			n.a.
F 27	20 27	16 0	2 58	20 8	1 37	19 43	3 3	20 14	6 28	15 18	1 8	20 43	1 7	23 31	0 28	23 9	0 34	20 22	17 27	7 21	6 49	6 20			n.a.
S 28	20 14	13 7	1 52	19 35	1 34	19 53	2 59	20 19	6 30	15 14	1 7	20 41	1 7	23 31	0 28	23 9	0 34	20 22	17 27	7 22	6 50	6 22			n.a.
S 29	20 1	9 26	0 38	19 2	1 30	20 4	2 55	20 24	6 31	15 9	1 7	20 40	1 7	23 30	0 28	23 9	0 34	20 23	17 28	7 23	6 51	6 24			n.a.
M30	19 48	5 12	0s39	18 27	1 26	20 14	2 51	20 30	6 33	15 5	1 7	20 38	1 7	23 30	0 28	23 9	0 34	20 23	17 28	7 23	6 52	6 25			n.a.
T 31	19n35	0s39	1s54	17n51	1n21	20n23	2s47	20s35	6s34	15n 1	1n 7	20n36	1n 7	23n30	0n28	23s 9	0n34	20s24	17s28	7n22	6n54	6s27			n.a.

Julian Day Number = 1669008.5, Delta T = 03h21m35s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'53, Lahiri = - 5°55'52 Julian Calendar 1 July 144 BCE == Greg. Calendar 28 June 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

AUGUST 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 25 1	4♌31'48	16♈54	16♌35	19♊ 5	21°R37	23♌21	3♌57	13♋23	1°R13	18°R55	11♍25	12♍35	24♎47	n.a.	W 1
T 2	20 28 58	5°29'53	1♉ 7	18°19	20° 7	21♒23	23°34	4° 5	13°26	1♑12	18♓54	11°R25	12°31	24°54	n.a.	T 2
F 3	20 32 54	6°28'01	15°16	20° 1	21° 9	21° 8	23°47	4°12	13°30	1°11	18°54	11°25	12°28	25° 0	n.a.	F 3
S 4	20 36 51	7°26'11	29°21	21°43	22°12	20°54	23°59	4°20	13°33	1°10	18°53	11°24	12°25	25° 7	n.a.	S 4
S 5	20 40 48	8°24'23	13♊19	23°23	23°14	20°38	24°12	4°28	13°37	1° 8	18°52	11°20	12°22	25°14	n.a.	S 5
M 6	20 44 44	9°22'37	27° 8	25° 1	24°18	20°23	24°25	4°35	13°40	1° 7	18°51	11°16	12°19	25°20	n.a.	M 6
T 7	20 48 41	10°20'53	10♋46	26°39	25°21	20° 7	24°38	4°43	13°44	1° 6	18°50	11°11	12°15	25°27	n.a.	T 7
W 8	20 52 37	11°19'11	24°11	28°16	26°25	19°50	24°50	4°50	13°47	1° 5	18°49	11° 6	12°12	25°34	n.a.	W 8
T 9	20 56 34	12°17'31	7♌21	29°51	27°29	19°34	25° 3	4°58	13°50	1° 4	18°48	11° 2	12° 9	25°40	n.a.	T 9
F 10	21 0 30	13°15'53	20°15	1♍25	28°33	19°17	25°16	5° 5	13°54	1° 3	18°48	11° 0	12° 6	25°47	n.a.	F 10
S 11	21 4 27	14°14'17	2♍53	2°58	29°38	19° 0	25°29	5°13	13°57	1° 2	18°47	10°58	12° 3	25°54	n.a.	S 11
S 12	21 8 23	15°12'42	15°16	4°30	0♋43	18°43	25°42	5°20	14° 0	1° 1	18°46	10°D58	12° 0	26° 0	n.a.	S 12
M13	21 12 20	16°11'10	27°25	6° 0	1°48	18°25	25°55	5°28	14° 4	0°59	18°45	10°59	11°56	26° 7	n.a.	M13
T 14	21 16 17	17° 9'39	9♎24	7°30	2°53	18° 8	26° 8	5°35	14° 7	0°58	18°44	11° 0	11°53	26°14	n.a.	T 14
W15	21 20 13	18° 8'10	21°17	8°58	3°58	17°51	26°21	5°43	14°10	0°58	18°43	11° 2	11°50	26°20	n.a.	W15
T 16	21 24 10	19° 6'43	3♏ 7	10°25	5° 4	17°34	26°34	5°50	14°13	0°57	18°42	11° 3	11°47	26°27	n.a.	T 16
F 17	21 28 6	20° 5'17	14°59	11°51	6°10	17°17	26°47	5°58	14°16	0°56	18°41	11°R 4	11°44	26°34	n.a.	F 17
S 18	21 32 3	21° 3'54	26°58	13°16	7°16	17° 0	27° 0	6° 5	14°20	0°55	18°40	11° 4	11°41	26°40	n.a.	S 18
S 19	21 35 59	22° 2'32	9♐ 9	14°39	8°23	16°44	27°13	6°12	14°23	0°54	18°39	11° 3	11°37	26°47	n.a.	S 19
M20	21 39 56	23° 1'12	21°37	16° 2	9°29	16°28	27°26	6°20	14°26	0°53	18°38	11° 2	11°34	26°54	n.a.	M20
T 21	21 43 52	23°59'54	4♑23	17°23	10°36	16°12	27°39	6°27	14°29	0°52	18°37	10°59	11°31	27° 1	n.a.	T 21
W22	21 47 49	24°58'38	17°32	18°42	11°43	15°56	27°52	6°34	14°32	0°51	18°36	10°57	11°28	27° 7	n.a.	W22
T 23	21 51 46	25°57'23	1♒ 4	20° 1	12°50	15°41	28° 5	6°42	14°35	0°51	18°35	10°55	11°25	27°14	n.a.	T 23
F 24	21 55 42	26°56'11	14°58	21°17	13°58	15°26	28°18	6°49	14°38	0°50	18°34	10°53	11°21	27°21	n.a.	F 24
S 25	21 59 39	27°55'01	29°11	22°33	15° 5	15°12	28°31	6°56	14°41	0°49	18°33	10°53	11°18	27°27	n.a.	S 25
S 26	22 3 35	28°53'52	13♓38	23°46	16°13	14°58	28°44	7° 4	14°44	0°48	18°31	10°D52	11°15	27°34	n.a.	S 26
M27	22 7 32	29°52'46	28°14	24°58	17°21	14°45	28°57	7°11	14°47	0°48	18°30	10°53	11°12	27°41	n.a.	M27
T 28	22 11 28	0♍51'42	12♈53	26° 9	18°29	14°33	29°10	7°18	14°50	0°47	18°29	10°53	11° 9	27°47	n.a.	T 28
W29	22 15 25	1°50'40	27°28	27°17	19°37	14°21	29°23	7°25	14°52	0°47	18°28	10°54	11° 6	27°54	n.a.	W29
T 30	22 19 21	2°49'41	11♉55	28°23	20°46	14° 9	29°36	7°32	14°55	0°46	18°27	10°55	11° 2	28° 1	n.a.	T 30
F 31	22 23 18	3♍48'45	26♉10	29♍28	21♋55	13♒58	29♌49	7♌39	14♋58	0♑46	18♓26	10♍55	10♍59	28♎ 7	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	19n21	3n55	3s 2	17n15	1n16	20n32	2s43	20s40	6s35	14n57	1n 7	20n34	1n 7	23n29	0n28	23s 9	0n33	20s24	17s29	7n22	6n55	6s29			n.a.
T 2	19 7	8 16	3 58	16 38	1 11	20 41	2 39	20 46	6 36	14 52	1 7	20 33	1 8	23 29	0 28	23 9	0 33	20 25	17 29	7 22	6 56	6 31			n.a.
F 3	18 52	12 8	4 40	16 0	1 5	20 50	2 35	20 51	6 36	14 48	1 7	20 31	1 8	23 29	0 28	23 9	0 33	20 25	17 29	7 22	6 57	6 33			n.a.
S 4	18 37	15 16	5 5	15 22	0 59	20 58	2 31	20 56	6 37	14 44	1 7	20 29	1 8	23 28	0 28	23 9	0 33	20 26	17 29	7 22	6 59	6 35			n.a.
S 5	18 22	17 30	5 12	14 43	0 53	21 5	2 27	21 1	6 37	14 40	1 7	20 27	1 8	23 28	0 28	23 9	0 33	20 27	17 30	7 24	7 0	6 36			n.a.
M 6	18 7	18 40	5 0	14 4	0 47	21 13	2 23	21 7	6 37	14 35	1 7	20 26	1 8	23 28	0 28	23 9	0 33	20 27	17 30	7 25	7 1	6 38			n.a.
T 7	17 51	18 45	4 32	13 24	0 40	21 19	2 18	21 12	6 37	14 31	1 7	20 24	1 8	23 27	0 28	23 9	0 33	20 28	17 30	7 27	7 2	6 40			n.a.
W 8	17 35	17 46	3 49	12 44	0 34	21 26	2 14	21 17	6 36	14 27	1 7	20 22	1 8	23 27	0 28	23 9	0 33	20 28	17 30	7 29	7 4	6 42			n.a.
T 9	17 18	15 50	2 54	12 4	0 27	21 31	2 10	21 22	6 36	14 22	1 7	20 20	1 8	23 27	0 28	23 9	0 33	20 29	17 31	7 30	7 5	6 44			n.a.
F 10	17 2	13 8	1 51	11 24	0 20	21 37	2 6	21 26	6 35	14 18	1 7	20 19	1 8	23 26	0 28	23 9	0 33	20 29	17 31	7 32	7 6	6 46			n.a.
S 11	16 45	9 52	0 44	10 43	0 12	21 41	2 1	21 31	6 34	14 14	1 7	20 17	1 8	23 26	0 28	23 9	0 33	20 30	17 31	7 32	7 7	6 48			n.a.
S 12	16 27	6 14	0n24	10 3	0 5	21 46	1 57	21 36	6 33	14 9	1 7	20 15	1 8	23 26	0 28	23 9	0 33	20 31	17 31	7 32	7 8	6 49			n.a.
M13	16 10	2 24	1 29	9 22	0s 3	21 49	1 52	21 40	6 32	14 5	1 7	20 13	1 8	23 25	0 28	23 9	0 33	20 31	17 31	7 32	7 10	6 51			n.a.
T 14	15 52	1s28	2 30	8 42	0 10	21 53	1 48	21 44	6 30	14 0	1 7	20 12	1 9	23 25	0 28	23 9	0 33	20 32	17 32	7 31	7 11	6 53			n.a.
W15	15 34	5 14	3 24	8 1	0 18	21 55	1 44	21 48	6 28	13 56	1 7	20 10	1 9	23 25	0 28	23 9	0 33	20 32	17 32	7 31	7 12	6 55			n.a.
T 16	15 16	8 47	4 9	7 21	0 26	21 58	1 39	21 51	6 26	13 51	1 7	20 8	1 9	23 24	0 28	23 9	0 33	20 33	17 32	7 30	7 13	6 57			n.a.
F 17	14 57	12 0	4 44	6 40	0 34	21 59	1 35	21 55	6 24	13 47	1 7	20 6	1 9	23 24	0 28	23 9	0 33	20 33	17 32	7 30	7 15	6 59			n.a.
S 18	14 38	14 44	5 6	6 0	0 42	22 0	1 30	21 58	6 22	13 42	1 7	20 5	1 9	23 24	0 28	23 9	0 33	20 34	17 32	7 30	7 16	7 0			n.a.
S 19	14 19	16 52	5 16	5 21	0 50	22 1	1 26	22 1	6 20	13 38	1 7	20 3	1 9	23 23	0 28	23 9	0 33	20 34	17 32	7 30	7 17	7 2			n.a.
M20	14 0	18 17	5 10	4 41	0 58	22 1	1 22	22 4	6 17	13 33	1 7	20 1	1 9	23 23	0 28	23 9	0 33	20 35	17 33	7 31	7 18	7 4			n.a.
T 21	13 40	18 48	4 50	4 2	1 6	22 0	1 17	22 6	6 14	13 29	1 8	19 59	1 9	23 23	0 28	23 9	0 33	20 36	17 33	7 32	7 19	7 6			n.a.
W22	13 21	18 21	4 14	3 23	1 14	21 59	1 13	22 8	6 12	13 24	1 8	19 58	1 9	23 22	0 28	23 9	0 33	20 36	17 33	7 32	7 21	7 8			n.a.
T 23	13 1	16 51	3 23	2 45	1 22	21 57	1 8	22 10	6 8	13 20	1 8	19 56	1 10	23 22	0 28	23 10	0 33	20 37	17 33	7 33	7 22	7 10			n.a.
F 24	12 40	14 19	2 19	2 7	1 30	21 54	1 4	22 11	6 5	13 15	1 8	19 54	1 10	23 22	0 28	23 10	0 33	20 37	17 33	7 34	7 23	7 11			n.a.
S 25	12 20	10 53	1 4	1 30	1 38	21 51	1 0	22 13	6 2	13 11	1 8	19 52	1 10	23 22	0 28	23 10	0 33	20 38	17 33	7 34	7 24	7 13			n.a.
S 26	11 59	6 44	0s15	0 53	1 46	21 48	0 55	22 13	5 59	13 6	1 8	19 51	1 10	23 21	0 28	23 10	0 33	20 38	17 34	7 34	7 26	7 15			n.a.
M27	11 38	2 9	1 35	0 17	1 54	21 43	0 51	22 14	5 55	13 2	1 8	19 49	1 10	23 21	0 28	23 10	0 33	20 39	17 34	7 34	7 27	7 17			n.a.
T 28	11 17	2n34	2 48	0s18	2 2	21 39	0 47	22 14	5 51	12 57	1 8	19 47	1 10	23 21	0 28	23 10	0 33	20 39	17 34	7 34	7 28	7 19			n.a.
W29	10 56	7 6	3 51	0 53	2 9	21 33	0 43	22 14	5 47	12 52	1 8	19 45	1 10	23 20	0 28	23 10	0 33	20 40	17 34	7 34	7 29	7 20			n.a.
T 30	10 35	11 11	4 38	1 26	2 17	21 27	0 38	22 14	5 44	12 48	1 8	19 44	1 10	23 20	0 28	23 10	0 33	20 41	17 34	7 33	7 30	7 22			n.a.
F 31	10n13	14n32	5s 7	1s59	2s24	21n21	0s34	22s14	5s40	12n43	1n 8	19n42	1n10	23n20	0n28	23s10	0n33	20s41	17s34	7n33	7n32	7s24			n.a.

Julian Day Number = 1669039.5, Delta T = 03h21m34s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'49, Lahiri = - 5°55'48 Julian Calendar 1 Aug. 144 BCE == Greg. Calendar 29 July 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

SEPTEMBER 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 27 14	4♍47'50	10♊11	0♎30	23♋ 3	13°R48	0♍ 2	7♌46	15♋ 1	0°R45	18°R25	10°R55	10♍56	28♎14	n.a.	S 1
S 2	22 31 11	5°46'59	23°57	1°29	24°12	13♒39	0°15	7°53	15° 3	0♑45	18♓24	10♍55	10°53	28°21	n.a.	S 2
M 3	22 35 8	6°46'09	7♋27	2°26	25°22	13°30	0°28	8° 0	15° 6	0°44	18°23	10°55	10°50	28°27	n.a.	M 3
T 4	22 39 4	7°45'22	20°43	3°20	26°31	13°22	0°41	8° 7	15° 9	0°44	18°21	10°54	10°47	28°34	n.a.	T 4
W 5	22 43 1	8°44'38	3♌43	4°10	27°41	13°15	0°54	8°14	15°11	0°43	18°20	10°54	10°43	28°41	n.a.	W 5
T 6	22 46 57	9°43'56	16°30	4°58	28°50	13° 9	1° 7	8°21	15°14	0°43	18°19	10°54	10°40	28°48	n.a.	T 6
F 7	22 50 54	10°43'15	29° 4	5°41	29°59	13° 3	1°20	8°28	15°16	0°43	18°18	10°D54	10°37	28°54	n.a.	F 7
S 8	22 54 50	11°42'38	11♍27	6°20	1♌10	12°58	1°33	8°35	15°19	0°42	18°17	10°R54	10°34	29° 1	n.a.	S 8
S 9	22 58 47	12°42'02	23°38	6°55	2°20	12°54	1°46	8°41	15°21	0°42	18°16	10°54	10°31	29° 8	n.a.	S 9
M10	23 2 43	13°41'28	5♎41	7°25	3°30	12°51	1°59	8°48	15°23	0°42	18°14	10°53	10°27	29°14	n.a.	M10
T 11	23 6 40	14°40'56	17°36	7°49	4°41	12°48	2°12	8°55	15°26	0°42	18°13	10°53	10°24	29°21	n.a.	T 11
W12	23 10 36	15°40'27	29°27	8° 8	5°51	12°46	2°24	9° 1	15°28	0°42	18°12	10°52	10°21	29°28	n.a.	W12
T 13	23 14 33	16°39'59	11♏16	8°20	7° 2	12°45	2°37	9° 8	15°30	0°42	18°11	10°52	10°18	29°34	n.a.	T 13
F 14	23 18 30	17°39'33	23° 8	8°R25	8°12	12°D45	2°50	9°14	15°32	0°41	18°10	10°51	10°15	29°41	n.a.	F 14
S 15	23 22 26	18°39'10	5♐ 5	8°23	9°23	12°46	3° 3	9°21	15°34	0°41	18° 9	10°50	10°12	29°48	n.a.	S 15
S 16	23 26 23	19°38'48	17°13	8°13	10°34	12°48	3°16	9°27	15°36	0°D41	18° 7	10°D50	10° 8	29°54	n.a.	S 16
M17	23 30 19	20°38'27	29°37	7°55	11°45	12°50	3°28	9°33	15°39	0°41	18° 6	10°50	10° 5	0♏ 1	n.a.	M17
T 18	23 34 16	21°38'09	12♑19	7°28	12°57	12°53	3°41	9°40	15°41	0°42	18° 5	10°51	10° 2	0° 8	n.a.	T 18
W19	23 38 12	22°37'53	25°25	6°53	14° 8	12°57	3°54	9°46	15°42	0°42	18° 4	10°52	9°59	0°14	n.a.	W19
T 20	23 42 9	23°37'38	8♒56	6° 9	15°19	13° 2	4° 6	9°52	15°44	0°42	18° 3	10°53	9°56	0°21	n.a.	T 20
F 21	23 46 5	24°37'25	22°54	5°17	16°31	13° 7	4°19	9°58	15°46	0°42	18° 2	10°54	9°52	0°28	n.a.	F 21
S 22	23 50 2	25°37'14	7♓17	4°17	17°43	13°13	4°32	10° 4	15°48	0°42	18° 1	10°R54	9°49	0°35	n.a.	S 22
S 23	23 53 59	26°37'05	22° 1	3°10	18°54	13°20	4°44	10°10	15°50	0°42	17°59	10°54	9°46	0°41	n.a.	S 23
M24	23 57 55	27°36'58	6♈59	1°59	20° 6	13°28	4°57	10°16	15°52	0°43	17°58	10°53	9°43	0°48	n.a.	M24
T 25	0 1 52	28°36'53	22° 3	0°44	21°18	13°36	5° 9	10°22	15°53	0°43	17°57	10°51	9°40	0°55	n.a.	T 25
W26	0 5 48	29°36'51	7♉ 4	29♍27	22°30	13°45	5°22	10°28	15°55	0°43	17°56	10°49	9°37	1° 1	n.a.	W26
T 27	0 9 45	0♎36'50	21°54	28°12	23°43	13°55	5°34	10°34	15°56	0°44	17°55	10°46	9°33	1° 8	n.a.	T 27
F 28	0 13 41	1°36'52	6♊25	27° 0	24°55	14° 5	5°47	10°39	15°58	0°44	17°54	10°44	9°30	1°15	n.a.	F 28
S 29	0 17 38	2°36'56	20°34	25°54	26° 7	14°16	5°59	10°45	15°59	0°44	17°53	10°43	9°27	1°21	n.a.	S 29
S 30	0 21 34	3♎37'03	4♋20	24♍55	27♌20	14♒28	6♍11	10♌51	16♋ 1	0♑45	17♓51	10°D42	9♍24	1♏28	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n52	17n 0	5s17	2s30	2s31	21n13	0s30	22s13	5s35	12n39	1n 8	19n40	1n11	23n20	0n28	23s10	0n33	20s42	17s34	7n33	7n33	7s26		n.a.
S 2	9 30	18 25	5 9	3 1	2 38	21 5	0 26	22 12	5 31	12 34	1 8	19 38	1 11	23 19	0 28	23 10	0 33	20 42	17 34	7 33	7 34	7 28		n.a.
M 3	9 8	18 46	4 44	3 29	2 45	20 57	0 22	22 10	5 27	12 30	1 8	19 37	1 11	23 19	0 29	23 10	0 33	20 43	17 34	7 33	7 35	7 30		n.a.
T 4	8 45	18 4	4 4	3 57	2 51	20 48	0 18	22 8	5 23	12 25	1 8	19 35	1 11	23 19	0 29	23 10	0 33	20 43	17 34	7 34	7 37	7 31		n.a.
W 5	8 23	16 26	3 12	4 23	2 57	20 38	0 14	22 6	5 18	12 20	1 8	19 33	1 11	23 18	0 29	23 10	0 33	20 44	17 34	7 34	7 38	7 33		n.a.
T 6	8 0	13 59	2 11	4 47	3 3	20 28	0 10	22 4	5 14	12 16	1 8	19 32	1 11	23 18	0 29	23 10	0 33	20 44	17 35	7 34	7 39	7 35		n.a.
F 7	7 38	10 55	1 5	5 9	3 8	20 17	0 6	22 1	5 10	12 11	1 8	19 30	1 11	23 18	0 29	23 10	0 32	20 45	17 35	7 34	7 40	7 37		n.a.
S 8	7 15	7 24	0n 3	5 29	3 12	20 6	0 2	21 59	5 5	12 6	1 8	19 28	1 12	23 18	0 29	23 10	0 32	20 45	17 35	7 34	7 41	7 39		n.a.
S 9	6 52	3 38	1 10	5 47	3 16	19 54	0n 2	21 55	5 1	12 2	1 8	19 27	1 12	23 17	0 29	23 10	0 32	20 46	17 35	7 34	7 43	7 41		n.a.
M10	6 29	0s15	2 13	6 2	3 20	19 41	0 6	21 52	4 56	11 57	1 8	19 25	1 12	23 17	0 29	23 10	0 32	20 46	17 35	7 34	7 44	7 42		n.a.
T 11	6 6	4 4	3 10	6 14	3 22	19 28	0 9	21 48	4 51	11 53	1 9	19 23	1 12	23 17	0 29	23 10	0 32	20 47	17 35	7 34	7 45	7 44		n.a.
W12	5 43	7 41	3 58	6 23	3 24	19 14	0 13	21 45	4 47	11 48	1 9	19 22	1 12	23 17	0 29	23 10	0 32	20 47	17 35	7 34	7 46	7 46		n.a.
T 13	5 19	11 0	4 36	6 28	3 25	19 0	0 17	21 40	4 42	11 43	1 9	19 20	1 12	23 16	0 29	23 10	0 32	20 48	17 35	7 35	7 47	7 48		n.a.
F 14	4 56	13 53	5 2	6 30	3 25	18 45	0 20	21 36	4 38	11 39	1 9	19 19	1 12	23 16	0 29	23 10	0 32	20 48	17 35	7 35	7 49	7 50		n.a.
S 15	4 32	16 13	5 16	6 28	3 23	18 29	0 24	21 31	4 33	11 34	1 9	19 17	1 13	23 16	0 29	23 10	0 32	20 49	17 35	7 35	7 50	7 51		n.a.
S 16	4 9	17 52	5 15	6 22	3 21	18 13	0 27	21 27	4 28	11 30	1 9	19 15	1 13	23 16	0 29	23 10	0 32	20 49	17 35	7 35	7 51	7 53		n.a.
M17	3 45	18 42	5 0	6 11	3 16	17 57	0 31	21 21	4 24	11 25	1 9	19 14	1 13	23 16	0 29	23 10	0 32	20 50	17 35	7 35	7 52	7 55		n.a.
T 18	3 21	18 38	4 31	5 54	3 11	17 40	0 34	21 16	4 19	11 20	1 9	19 12	1 13	23 15	0 29	23 10	0 32	20 50	17 35	7 35	7 54	7 57		n.a.
W19	2 57	17 35	3 46	5 33	3 3	17 22	0 37	21 11	4 15	11 16	1 9	19 11	1 13	23 15	0 29	23 10	0 32	20 50	17 35	7 34	7 55	7 59		n.a.
T 20	2 33	15 32	2 48	5 7	2 53	17 4	0 40	21 5	4 10	11 11	1 9	19 9	1 13	23 15	0 29	23 10	0 32	20 51	17 35	7 34	7 56	8 0		n.a.
F 21	2 10	12 30	1 38	4 36	2 42	16 45	0 44	20 59	4 6	11 7	1 9	19 8	1 14	23 15	0 29	23 10	0 32	20 51	17 35	7 34	7 57	8 2		n.a.
S 22	1 46	8 37	0 20	3 59	2 29	16 26	0 47	20 53	4 1	11 2	1 9	19 6	1 14	23 15	0 29	23 10	0 32	20 52	17 35	7 34	7 58	8 4		n.a.
S 23	1 22	4 8	1s 1	3 19	2 14	16 7	0 50	20 47	3 57	10 57	1 10	19 5	1 14	23 14	0 29	23 10	0 32	20 52	17 34	7 34	8 0	8 6		n.a.
M24	0 57	0n40	2 19	2 35	1 57	15 47	0 53	20 40	3 52	10 53	1 10	19 3	1 14	23 14	0 29	23 11	0 32	20 53	17 34	7 34	8 1	8 8		n.a.
T 25	0 33	5 28	3 28	1 48	1 39	15 26	0 55	20 34	3 48	10 48	1 10	19 2	1 14	23 14	0 29	23 11	0 32	20 53	17 34	7 35	8 2	8 10		n.a.
W26	0 9	9 54	4 23	0 59	1 19	15 5	0 58	20 27	3 43	10 44	1 10	19 0	1 14	23 14	0 29	23 11	0 32	20 53	17 34	7 36	8 3	8 11		n.a.
T 27	0s15	13 38	4 59	0 11	0 59	14 43	1 1	20 20	3 39	10 39	1 10	18 59	1 15	23 14	0 29	23 11	0 32	20 54	17 34	7 37	8 4	8 13		n.a.
F 28	0 39	16 28	5 14	0n37	0 38	14 22	1 4	20 13	3 35	10 35	1 10	18 57	1 15	23 14	0 29	23 11	0 32	20 54	17 34	7 37	8 6	8 15		n.a.
S 29	1 3	18 12	5 11	1 23	0 18	13 59	1 6	20 5	3 31	10 30	1 10	18 56	1 15	23 14	0 29	23 11	0 32	20 54	17 34	7 38	8 7	8 17		n.a.
S 30	1s27	18n49	4s49	2n 5	0n 2	13n36	1n 9	19s58	3s26	10n26	1n10	18n55	1n15	23n13	0n29	23s11	0n32	20s55	17s34	7n38	8n 8	8s19		n.a.

Julian Day Number = 1669070.5, Delta T = 03h21m33s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'44, Lahiri = - 5°55'44 Julian Calendar 1 Sept. 144 BCE == Greg. Calendar 29 Aug. 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

OCTOBER 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 25 31	4♎37'11	17♋43	24°R 6	28♌33	14♒41	6♍23	10♌56	16♋ 2	0♉45	17°R50	10♍43	9♍21	1♏35	n.a.	M 1
T 2	0 29 28	5°37'22	0♌45	23♍26	29°45	14°54	6°36	11° 2	16° 4	0°46	17♓49	10°44	9°18	1°41	n.a.	T 2
W 3	0 33 24	6°37'35	13°29	22°59	0♍58	15° 7	6°48	11° 7	16° 5	0°46	17°48	10°46	9°14	1°48	n.a.	W 3
T 4	0 37 21	7°37'50	25°58	22°42	2°11	15°21	7° 0	11°12	16° 6	0°47	17°47	10°47	9°11	1°55	n.a.	T 4
F 5	0 41 17	8°38'07	8♍15	22°D38	3°24	15°36	7°12	11°17	16° 7	0°48	17°46	10°R48	9° 8	2° 2	n.a.	F 5
S 6	0 45 14	9°38'26	20°23	22°44	4°37	15°52	7°24	11°23	16° 8	0°48	17°45	10°48	9° 5	2° 8	n.a.	S 6
S 7	0 49 10	10°38'47	2♎23	23° 2	5°50	16° 8	7°36	11°28	16° 9	0°49	17°44	10°46	9° 2	2°15	n.a.	S 7
M 8	0 53 7	11°39'10	14°19	23°29	7° 3	16°24	7°48	11°33	16°10	0°50	17°43	10°42	8°58	2°22	n.a.	M 8
T 9	0 57 3	12°39'35	26°10	24° 5	8°17	16°41	8° 0	11°37	16°11	0°51	17°42	10°37	8°55	2°28	n.a.	T 9
W10	1 1 0	13°40'01	8♏ 0	24°49	9°30	16°59	8°11	11°42	16°12	0°51	17°41	10°31	8°52	2°35	n.a.	W10
T 11	1 4 56	14°40'29	19°51	25°41	10°43	17°17	8°23	11°47	16°13	0°52	17°40	10°25	8°49	2°42	n.a.	T 11
F 12	1 8 53	15°40'59	1♐44	26°39	11°57	17°36	8°35	11°52	16°14	0°53	17°39	10°18	8°46	2°48	n.a.	F 12
S 13	1 12 50	16°41'30	13°42	27°43	13°10	17°55	8°46	11°56	16°14	0°54	17°38	10°13	8°43	2°55	n.a.	S 13
S 14	1 16 46	17°42'03	25°49	28°52	14°24	18°15	8°58	12° 1	16°15	0°55	17°37	10° 9	8°39	3° 2	n.a.	S 14
M15	1 20 43	18°42'37	8♑ 8	0♎ 5	15°38	18°35	9° 9	12° 5	16°16	0°56	17°36	10° 6	8°36	3° 9	n.a.	M15
T 16	1 24 39	19°43'12	20°44	1°21	16°51	18°56	9°21	12°10	16°16	0°57	17°35	10°D 6	8°33	3°15	n.a.	T 16
W17	1 28 36	20°43'49	3♒42	2°41	18° 5	19°17	9°32	12°14	16°17	0°58	17°34	10° 6	8°30	3°22	n.a.	W17
T 18	1 32 32	21°44'27	17° 3	4° 3	19°19	19°39	9°43	12°18	16°17	0°59	17°33	10° 8	8°27	3°29	n.a.	T 18
F 19	1 36 29	22°45'06	0♓53	5°27	20°33	20° 1	9°54	12°22	16°18	1° 0	17°32	10° 9	8°23	3°35	n.a.	F 19
S 20	1 40 25	23°45'47	15°10	6°53	21°47	20°23	10° 5	12°26	16°18	1° 1	17°31	10°R 9	8°20	3°42	n.a.	S 20
S 21	1 44 22	24°46'29	29°54	8°21	23° 1	20°46	10°16	12°30	16°18	1° 2	17°30	10° 8	8°17	3°49	n.a.	S 21
M22	1 48 19	25°47'12	14♈59	9°50	24°15	21° 9	10°27	12°34	16°18	1° 3	17°29	10° 4	8°14	3°55	n.a.	M22
T 23	1 52 15	26°47'56	0♉16	11°20	25°29	21°33	10°38	12°37	16°19	1° 5	17°28	9°58	8°11	4° 2	n.a.	T 23
W24	1 56 12	27°48'42	15°35	12°51	26°43	21°57	10°49	12°41	16°19	1° 6	17°27	9°51	8° 8	4° 9	n.a.	W24
T 25	2 0 8	28°49'30	0♊45	14°22	27°57	22°21	11° 0	12°45	16°19	1° 7	17°27	9°43	8° 4	4°16	n.a.	T 25
F 26	2 4 5	29°50'19	15°35	15°54	29°12	22°46	11°10	12°48	16°R19	1° 8	17°26	9°36	8° 1	4°22	n.a.	F 26
S 27	2 8 1	0♏51'10	29°59	17°27	0♎26	23°11	11°21	12°51	16°19	1°10	17°25	9°30	7°58	4°29	n.a.	S 27
S 28	2 11 58	1°52'02	13♋55	19° 0	1°40	23°37	11°31	12°55	16°19	1°11	17°24	9°26	7°55	4°36	n.a.	S 28
M29	2 15 54	2°52'56	27°22	20°33	2°55	24° 2	11°42	12°58	16°19	1°12	17°23	9°D25	7°52	4°42	n.a.	M29
T 30	2 19 51	3°53'51	10♌22	22° 6	4° 9	24°29	11°52	13° 1	16°18	1°14	17°23	9°25	7°49	4°49	n.a.	T 30
W31	2 23 48	4♏54'48	23♌ 1	23♎40	5♎24	24♒55	12♍ 2	13♌ 4	16♋18	1♉15	17♓22	9♍26	7♍45	4♏56	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	1s51	18n21	4s12	2n42	0n22	13n13	1n11	19s50	3s22	10n21	1n10	18n53	1n15	23n13	0n29	23s11	0n32	20s55	17s34	7n38	8n 9	8s20			n.a.
T 2	2 15	16 55	3 23	3 14	0 40	12 50	1 13	19 42	3 18	10 17	1 11	18 52	1 15	23 13	0 29	23 11	0 32	20 55	17 34	7 37	8 10	8 22			n.a.
W 3	2 40	14 39	2 25	3 41	0 56	12 26	1 16	19 34	3 14	10 12	1 11	18 51	1 16	23 13	0 29	23 11	0 32	20 56	17 34	7 37	8 12	8 24			n.a.
T 4	3 4	11 44	1 21	4 1	1 11	12 1	1 18	19 26	3 10	10 8	1 11	18 49	1 16	23 13	0 29	23 11	0 32	20 56	17 33	7 36	8 13	8 26			n.a.
F 5	3 28	8 21	0 14	4 15	1 25	11 37	1 20	19 18	3 6	10 4	1 11	18 48	1 16	23 13	0 30	23 11	0 32	20 56	17 33	7 36	8 14	8 28			n.a.
S 6	3 52	4 39	0n52	4 23	1 36	11 12	1 22	19 9	3 2	9 59	1 11	18 47	1 16	23 13	0 30	23 11	0 32	20 57	17 33	7 36	8 15	8 29			n.a.
S 7	4 16	0 48	1 56	4 25	1 46	10 46	1 24	19 1	2 58	9 55	1 11	18 46	1 16	23 13	0 30	23 11	0 32	20 57	17 33	7 37	8 17	8 31			n.a.
M 8	4 40	3s 3	2 53	4 22	1 55	10 20	1 26	18 52	2 54	9 50	1 11	18 44	1 17	23 13	0 30	23 11	0 32	20 57	17 33	7 38	8 18	8 33			n.a.
T 9	5 3	6 45	3 43	4 14	2 1	9 54	1 27	18 43	2 51	9 46	1 11	18 43	1 17	23 12	0 30	23 11	0 32	20 58	17 33	7 40	8 19	8 35			n.a.
W10	5 27	10 12	4 23	4 1	2 6	9 28	1 29	18 34	2 47	9 42	1 12	18 42	1 17	23 12	0 30	23 11	0 31	20 58	17 33	7 42	8 20	8 37			n.a.
T 11	5 51	13 13	4 51	3 43	2 10	9 1	1 31	18 25	2 43	9 37	1 12	18 41	1 17	23 12	0 30	23 11	0 31	20 58	17 32	7 45	8 21	8 38			n.a.
F 12	6 14	15 43	5 7	3 22	2 13	8 34	1 32	18 16	2 40	9 33	1 12	18 40	1 17	23 12	0 30	23 11	0 31	20 58	17 32	7 47	8 23	8 40			n.a.
S 13	6 38	17 34	5 10	2 58	2 14	8 7	1 33	18 6	2 36	9 29	1 12	18 39	1 17	23 12	0 30	23 11	0 31	20 59	17 32	7 49	8 24	8 42			n.a.
S 14	7 1	18 39	4 59	2 31	2 15	7 40	1 35	17 57	2 32	9 25	1 12	18 38	1 18	23 12	0 30	23 11	0 31	20 59	17 32	7 51	8 25	8 44			n.a.
M15	7 25	18 53	4 35	2 1	2 14	7 12	1 36	17 47	2 29	9 20	1 12	18 36	1 18	23 12	0 30	23 11	0 31	20 59	17 32	7 52	8 26	8 46			n.a.
T 16	7 48	18 12	3 56	1 29	2 13	6 44	1 37	17 37	2 25	9 16	1 12	18 35	1 18	23 12	0 30	23 11	0 31	20 59	17 31	7 52	8 27	8 47			n.a.
W17	8 11	16 33	3 5	0 55	2 11	6 16	1 38	17 27	2 22	9 12	1 13	18 34	1 18	23 12	0 30	23 11	0 31	20 59	17 31	7 52	8 29	8 49			n.a.
T 18	8 34	13 58	2 2	0 20	2 8	5 48	1 39	17 17	2 19	9 8	1 13	18 33	1 18	23 12	0 30	23 11	0 31	21 0	17 31	7 51	8 30	8 51			n.a.
F 19	8 57	10 30	0 50	0s17	2 5	5 19	1 40	17 7	2 15	9 4	1 13	18 32	1 19	23 12	0 30	23 11	0 31	21 0	17 31	7 51	8 31	8 53			n.a.
S 20	9 19	6 19	0s27	0 55	2 1	4 50	1 41	16 56	2 12	9 0	1 13	18 32	1 19	23 12	0 30	23 11	0 31	21 0	17 31	7 51	8 32	8 54			n.a.
S 21	9 42	1 38	1 45	1 34	1 57	4 21	1 42	16 46	2 9	8 56	1 13	18 31	1 19	23 12	0 30	23 11	0 31	21 0	17 30	7 51	8 33	8 56			n.a.
M22	10 4	3n15	2 57	2 13	1 52	3 52	1 42	16 35	2 6	8 52	1 13	18 30	1 19	23 12	0 30	23 11	0 31	21 0	17 30	7 53	8 35	8 58			n.a.
T 23	10 27	8 0	3 57	2 54	1 47	3 23	1 43	16 25	2 3	8 48	1 14	18 29	1 20	23 12	0 30	23 11	0 31	21 0	17 30	7 55	8 36	9 0			n.a.
W24	10 49	12 13	4 41	3 34	1 42	2 54	1 43	16 14	2 0	8 44	1 14	18 28	1 20	23 12	0 30	23 11	0 31	21 0	17 30	7 58	8 37	9 2			n.a.
T 25	11 11	15 35	5 4	4 15	1 36	2 24	1 44	16 3	1 57	8 40	1 14	18 27	1 20	23 12	0 30	23 11	0 31	21 1	17 29	8 1	8 38	9 3			n.a.
F 26	11 32	17 51	5 6	4 57	1 30	1 55	1 44	15 52	1 54	8 36	1 14	18 26	1 20	23 12	0 30	23 11	0 31	21 1	17 29	8 3	8 39	9 5			n.a.
S 27	11 54	18 55	4 48	5 38	1 24	1 25	1 44	15 41	1 51	8 32	1 14	18 26	1 20	23 12	0 30	23 11	0 31	21 1	17 29	8 6	8 41	9 7			n.a.
S 28	12 15	18 46	4 14	6 19	1 18	0 55	1 45	15 30	1 48	8 28	1 14	18 25	1 21	23 12	0 30	23 11	0 31	21 1	17 29	8 7	8 42	9 9			n.a.
M29	12 37	17 33	3 26	7 1	1 11	0 26	1 45	15 18	1 45	8 24	1 15	18 24	1 21	23 12	0 30	23 11	0 31	21 1	17 28	8 8	8 43	9 11			n.a.
T 30	12 58	15 26	2 30	7 42	1 5	0s 4	1 45	15 7	1 42	8 20	1 15	18 24	1 21	23 12	0 30	23 11	0 31	21 1	17 28	8 8	8 44	9 12			n.a.
W31	13s18	12n38	1s27	8s23	0n58	0s34	1n45	14s55	1s39	8n17	1n15	18n23	1n21	23n12	0n30	23s11	0n31	21s 1	17s28	8n 7	8n45	9s14			n.a.

Julian Day Number = 1669100.5, Delta T = 03h21m32s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'40, Lahiri = - 5°55'40 Julian Calendar 1 Oct. 144 BCE == Greg. Calendar 28 Sept. 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

NOVEMBER 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 27 44	5♏55'46	5♍21	25♎13	6♎38	25♒22	12♍12	13♌ 7	16°R18	1♉17	17°R21	9°R27	7♍42	5♏ 2	n.a.	T 1
F 2	2 31 41	6°56'46	17°28	26°47	7°53	25°49	12°22	13° 9	16♋17	1°18	17♓20	9♍26	7°39	5° 9	n.a.	F 2
S 3	2 35 37	7°57'46	29°26	28°21	9° 8	26°16	12°32	13°12	16°17	1°20	17°20	9°24	7°36	5°16	n.a.	S 3
S 4	2 39 34	8°58'48	11♎19	29°55	10°22	26°44	12°42	13°15	16°16	1°21	17°19	9°19	7°33	5°23	n.a.	S 4
M 5	2 43 30	9°59'52	23° 9	1♏28	11°37	27°11	12°51	13°17	16°16	1°23	17°18	9°11	7°29	5°29	n.a.	M 5
T 6	2 47 27	11° 0'56	4♏59	3° 2	12°52	27°40	13° 1	13°19	16°15	1°24	17°18	9° 1	7°26	5°36	n.a.	T 6
W 7	2 51 23	12° 2'01	16°51	4°36	14° 6	28° 8	13°10	13°22	16°15	1°26	17°17	8°49	7°23	5°43	n.a.	W 7
T 8	2 55 20	13° 3'07	28°45	6°10	15°21	28°37	13°20	13°24	16°14	1°28	17°17	8°36	7°20	5°49	n.a.	T 8
F 9	2 59 17	14° 4'14	10♐44	7°44	16°36	29° 6	13°29	13°26	16°13	1°29	17°16	8°23	7°17	5°56	n.a.	F 9
S 10	3 3 13	15° 5'22	22°48	9°18	17°51	29°35	13°38	13°28	16°12	1°31	17°16	8°11	7°14	6° 3	n.a.	S 10
S 11	3 7 10	16° 6'31	5♑ 0	10°52	19° 6	0♓ 4	13°47	13°29	16°11	1°33	17°15	8° 2	7°10	6° 9	n.a.	S 11
M12	3 11 6	17° 7'40	17°22	12°26	20°21	0°34	13°56	13°31	16°10	1°34	17°14	7°55	7° 7	6°16	n.a.	M12
T 13	3 15 3	18° 8'49	29°57	14° 0	21°35	1° 4	14° 5	13°33	16° 9	1°36	17°14	7°51	7° 4	6°23	n.a.	T 13
W14	3 18 59	19° 9'59	12♒49	15°34	22°50	1°34	14°13	13°34	16° 8	1°38	17°14	7°50	7° 1	6°30	n.a.	W14
T 15	3 22 56	20°11'09	26° 2	17° 8	24° 5	2° 5	14°22	13°36	16° 7	1°40	17°13	7°D50	6°58	6°36	n.a.	T 15
F 16	3 26 52	21°12'20	9♓38	18°42	25°20	2°35	14°30	13°37	16° 6	1°42	17°13	7°R50	6°55	6°43	n.a.	F 16
S 17	3 30 49	22°13'31	23°41	20°17	26°35	3° 6	14°38	13°38	16° 5	1°43	17°12	7°49	6°51	6°50	n.a.	S 17
S 18	3 34 46	23°14'42	8♈10	21°51	27°50	3°37	14°47	13°39	16° 4	1°45	17°12	7°46	6°48	6°56	n.a.	S 18
M19	3 38 42	24°15'53	23° 3	23°26	29° 5	4° 8	14°55	13°40	16° 3	1°47	17°12	7°40	6°45	7° 3	n.a.	M19
T 20	3 42 39	25°17'05	8♉13	25° 1	0♏20	4°39	15° 3	13°41	16° 1	1°49	17°11	7°32	6°42	7°10	n.a.	T 20
W21	3 46 35	26°18'17	23°31	26°36	1°35	5°11	15°10	13°42	16° 0	1°51	17°11	7°21	6°39	7°16	n.a.	W21
T 22	3 50 32	27°19'29	8♊46	28°11	2°50	5°43	15°18	13°42	15°58	1°53	17°11	7° 9	6°35	7°23	n.a.	T 22
F 23	3 54 28	28°20'42	23°46	29°46	4° 5	6°15	15°25	13°43	15°57	1°55	17°10	6°58	6°32	7°30	n.a.	F 23
S 24	3 58 25	29°21'55	8♋22	1♐22	5°20	6°47	15°33	13°43	15°55	1°57	17°10	6°48	6°29	7°37	n.a.	S 24
S 25	4 2 21	0♐23'09	22°29	2°58	6°35	7°19	15°40	13°43	15°54	1°59	17°10	6°41	6°26	7°43	n.a.	S 25
M26	4 6 18	1°24'23	6♌ 5	4°34	7°50	7°51	15°47	13°43	15°52	2° 1	17°10	6°37	6°23	7°50	n.a.	M26
T 27	4 10 15	2°25'38	19°12	6°10	9° 6	8°24	15°54	13°R44	15°51	2° 3	17° 9	6°35	6°20	7°57	n.a.	T 27
W28	4 14 11	3°26'53	1♍53	7°47	10°21	8°56	16° 1	13°43	15°49	2° 5	17° 9	6°35	6°16	8° 3	n.a.	W28
T 29	4 18 8	4°28'09	14°14	9°24	11°36	9°29	16° 8	13°43	15°47	2° 7	17° 9	6°35	6°13	8°10	n.a.	T 29
F 30	4 22 4	5♐29'24	26♍19	11♐ 1	12♏51	10♓ 2	16♍14	13♌43	15♋45	2♑ 9	17♓ 9	6♍34	6♍10	8♏17	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s39	9n19	0s22	9s 4	0n52	1s 4	1n44	14s44	1s37	8n13	1n15	18n22	1n22	23n12	0n30	23s11	0n31	21s 1	17s27	8n 7	8n47	9s16		n.a.
F 2	13 59	5 40	0n43	9 45	0 45	1 34	1 44	14 32	1 34	8 9	1 15	18 22	1 22	23 13	0 31	23 11	0 31	21 1	17 27	8 7	8 48	9 18		n.a.
S 3	14 19	1 50	1 45	10 25	0 38	2 4	1 44	14 20	1 31	8 6	1 16	18 21	1 22	23 13	0 31	23 11	0 31	21 1	17 27	8 8	8 49	9 19		n.a.
S 4	14 39	2s 3	2 42	11 5	0 31	2 34	1 43	14 8	1 29	8 2	1 16	18 21	1 22	23 13	0 31	23 11	0 31	21 1	17 27	8 10	8 50	9 21		n.a.
M 5	14 59	5 50	3 31	11 44	0 25	3 4	1 43	13 56	1 26	7 59	1 16	18 20	1 22	23 13	0 31	23 11	0 31	21 1	17 26	8 13	8 51	9 23		n.a.
T 6	15 18	9 23	4 11	12 23	0 18	3 34	1 42	13 44	1 24	7 55	1 16	18 20	1 23	23 13	0 31	23 11	0 31	21 1	17 26	8 17	8 53	9 25		n.a.
W 7	15 37	12 34	4 41	13 2	0 11	4 4	1 42	13 31	1 21	7 52	1 16	18 19	1 23	23 13	0 31	23 11	0 31	21 1	17 26	8 21	8 54	9 27		n.a.
T 8	15 56	15 16	4 58	13 40	0 4	4 34	1 41	13 19	1 19	7 48	1 17	18 19	1 23	23 13	0 31	23 11	0 31	21 1	17 25	8 26	8 55	9 28		n.a.
F 9	16 14	17 20	5 2	14 17	0s 2	5 3	1 40	13 6	1 16	7 45	1 17	18 19	1 23	23 13	0 31	23 11	0 31	21 1	17 25	8 31	8 56	9 30		n.a.
S 10	16 33	18 39	4 53	14 54	0 9	5 33	1 39	12 54	1 14	7 41	1 17	18 18	1 24	23 13	0 31	23 11	0 31	21 1	17 25	8 36	8 57	9 32		n.a.
S 11	16 51	19 7	4 30	15 30	0 16	6 2	1 39	12 41	1 12	7 38	1 17	18 18	1 24	23 14	0 31	23 11	0 31	21 1	17 24	8 39	8 58	9 34		n.a.
M12	17 8	18 42	3 54	16 6	0 22	6 32	1 38	12 28	1 9	7 35	1 17	18 18	1 24	23 14	0 31	23 11	0 31	21 1	17 24	8 42	9 0	9 35		n.a.
T 13	17 26	17 21	3 7	16 40	0 29	7 1	1 36	12 16	1 7	7 32	1 18	18 17	1 24	23 14	0 31	23 11	0 31	21 1	17 24	8 43	9 1	9 37		n.a.
W14	17 43	15 6	2 9	17 15	0 35	7 30	1 35	12 3	1 5	7 28	1 18	18 17	1 24	23 14	0 31	23 11	0 31	21 0	17 23	8 44	9 2	9 39		n.a.
T 15	17 59	12 1	1 2	17 48	0 41	7 59	1 34	11 50	1 3	7 25	1 18	18 17	1 25	23 14	0 31	23 11	0 31	21 0	17 23	8 44	9 3	9 41		n.a.
F 16	18 16	8 12	0s10	18 20	0 47	8 28	1 33	11 36	1 0	7 22	1 18	18 17	1 25	23 14	0 31	23 11	0 31	21 0	17 23	8 44	9 4	9 42		n.a.
S 17	18 32	3 48	1 23	18 52	0 53	8 57	1 32	11 23	0 58	7 19	1 19	18 17	1 25	23 15	0 31	23 11	0 31	21 0	17 22	8 44	9 6	9 44		n.a.
S 18	18 48	0n56	2 33	19 23	0 59	9 25	1 30	11 10	0 56	7 16	1 19	18 17	1 25	23 15	0 31	23 11	0 30	21 0	17 22	8 45	9 7	9 46		n.a.
M19	19 3	5 44	3 35	19 53	1 5	9 53	1 29	10 56	0 54	7 13	1 19	18 17	1 26	23 15	0 31	23 11	0 30	21 0	17 22	8 47	9 8	9 48		n.a.
T 20	19 18	10 16	4 23	20 22	1 10	10 21	1 27	10 43	0 52	7 10	1 19	18 17	1 26	23 15	0 31	23 11	0 30	21 0	17 21	8 51	9 9	9 50		n.a.
W21	19 33	14 9	4 52	20 50	1 15	10 49	1 26	10 29	0 50	7 8	1 20	18 17	1 26	23 15	0 31	23 11	0 30	20 59	17 21	8 55	9 10	9 51		n.a.
T 22	19 47	17 4	5 0	21 17	1 21	11 17	1 24	10 16	0 48	7 5	1 20	18 17	1 26	23 15	0 31	23 11	0 30	20 59	17 21	8 59	9 12	9 53		n.a.
F 23	20 1	18 46	4 48	21 43	1 26	11 44	1 23	10 2	0 46	7 2	1 20	18 17	1 27	23 16	0 31	23 11	0 30	20 59	17 20	9 3	9 13	9 55		n.a.
S 24	20 15	19 10	4 17	22 8	1 30	12 11	1 21	9 48	0 44	6 59	1 20	18 17	1 27	23 16	0 31	23 11	0 30	20 59	17 20	9 7	9 14	9 57		n.a.
S 25	20 28	18 21	3 31	22 32	1 35	12 38	1 19	9 35	0 42	6 57	1 20	18 17	1 27	23 16	0 31	23 11	0 30	20 58	17 20	9 9	9 15	9 58		n.a.
M26	20 40	16 29	2 34	22 55	1 39	13 4	1 17	9 21	0 41	6 54	1 21	18 17	1 27	23 16	0 31	23 11	0 30	20 58	17 19	9 11	9 16	10 0		n.a.
T 27	20 53	13 48	1 31	23 17	1 43	13 30	1 15	9 7	0 39	6 52	1 21	18 17	1 28	23 17	0 31	23 11	0 30	20 58	17 19	9 12	9 17	10 2		n.a.
W28	21 5	10 32	0 25	23 37	1 47	13 56	1 13	8 53	0 37	6 49	1 21	18 18	1 28	23 17	0 31	23 11	0 30	20 58	17 18	9 12	9 19	10 4		n.a.
T 29	21 16	6 54	0n40	23 56	1 51	14 21	1 11	8 39	0 35	6 47	1 21	18 18	1 28	23 17	0 31	23 11	0 30	20 57	17 18	9 12	9 20	10 5		n.a.
F 30	21s28	3n 3	1n42	24s13	1s54	14s46	1n 9	8s24	0s33	6n45	1n22	18n18	1n28	23n17	0n31	23s11	0n30	20s57	17s18	9n12	9n21	10s 7		n.a.

Julian Day Number = 1669131.5, Delta T = 03h21m31s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'36, Lahiri = - 5°55'36 Julian Calendar 1 Nov. 144 BCE == Greg. Calendar 29 Oct. 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 144 BCE
geocentric

DECEMBER 144 BCE (-143) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 26 1	6♐30'40	8♎14	12♐38	14♏ 6	10♓35	16♍21	13°R43	15°R44	2♑11	17°R 9	6°R31	6♍ 7	8♏24	n.a.	S 1
S 2	4 29 57	7°31'57	20° 4	14°16	15°21	11° 8	16°27	13♌42	15♋42	2°13	17♓ 9	6♍25	6° 4	8°30	n.a.	S 2
M 3	4 33 54	8°33'13	1♏53	15°54	16°36	11°42	16°33	13°42	15°40	2°15	17° 9	6°16	6° 1	8°37	n.a.	M 3
T 4	4 37 50	9°34'30	13°44	17°32	17°52	12°15	16°39	13°41	15°38	2°18	17° 9	6° 4	5°57	8°44	n.a.	T 4
W 5	4 41 47	10°35'46	25°39	19°10	19° 7	12°49	16°44	13°40	15°36	2°20	17°D 9	5°50	5°54	8°50	n.a.	W 5
T 6	4 45 44	11°37'03	7♐40	20°49	20°22	13°23	16°50	13°39	15°34	2°22	17° 9	5°35	5°51	8°57	n.a.	T 6
F 7	4 49 40	12°38'19	19°48	22°28	21°37	13°56	16°55	13°38	15°32	2°24	17° 9	5°20	5°48	9° 4	n.a.	F 7
S 8	4 53 37	13°39'35	2♑ 4	24° 6	22°52	14°30	17° 1	13°37	15°30	2°26	17° 9	5° 7	5°45	9°11	n.a.	S 8
S 9	4 57 33	14°40'51	14°28	25°45	24° 7	15° 4	17° 6	13°36	15°28	2°28	17° 9	4°56	5°41	9°17	n.a.	S 9
M10	5 1 30	15°42'06	27° 2	27°24	25°23	15°39	17°11	13°34	15°26	2°31	17° 9	4°47	5°38	9°24	n.a.	M10
T 11	5 5 26	16°43'20	9♒47	29° 2	26°38	16°13	17°16	13°33	15°23	2°33	17° 9	4°42	5°35	9°31	n.a.	T 11
W12	5 9 23	17°44'34	22°44	0♑41	27°53	16°47	17°20	13°31	15°21	2°35	17° 9	4°40	5°32	9°37	n.a.	W12
T 13	5 13 20	18°45'47	5♓57	2°18	29° 8	17°22	17°25	13°30	15°19	2°37	17°10	4°D40	5°29	9°44	n.a.	T 13
F 14	5 17 16	19°47'00	19°28	3°56	0♐23	17°57	17°29	13°28	15°17	2°39	17°10	4°R40	5°26	9°51	n.a.	F 14
S 15	5 21 13	20°48'11	3♈19	5°32	1°38	18°31	17°33	13°26	15°15	2°42	17°10	4°39	5°22	9°57	n.a.	S 15
S 16	5 25 9	21°49'22	17°31	7° 7	2°54	19° 6	17°37	13°24	15°12	2°44	17°10	4°37	5°19	10° 4	n.a.	S 16
M17	5 29 6	22°50'32	2♉ 3	8°41	4° 9	19°41	17°41	13°22	15°10	2°46	17°11	4°32	5°16	10°11	n.a.	M17
T 18	5 33 2	23°51'40	16°52	10°13	5°24	20°16	17°44	13°20	15° 7	2°48	17°11	4°24	5°13	10°18	n.a.	T 18
W19	5 36 59	24°52'49	1♊50	11°44	6°39	20°51	17°48	13°17	15° 5	2°51	17°11	4°14	5°10	10°24	n.a.	W19
T 20	5 40 55	25°53'56	16°48	13°11	7°54	21°26	17°51	13°15	15° 3	2°53	17°11	4° 4	5° 6	10°31	n.a.	T 20
F 21	5 44 52	26°55'02	1♋38	14°36	9° 9	22° 1	17°54	13°12	15° 0	2°55	17°12	3°53	5° 3	10°38	n.a.	F 21
S 22	5 48 49	27°56'08	16°11	15°57	10°25	22°37	17°57	13°10	14°58	2°57	17°12	3°44	5° 0	10°44	n.a.	S 22
S 23	5 52 45	28°57'13	0♌19	17°14	11°40	23°12	18° 0	13° 7	14°55	3° 0	17°13	3°37	4°57	10°51	n.a.	S 23
M24	5 56 42	29°58'17	14° 0	18°26	12°55	23°47	18° 2	13° 4	14°53	3° 2	17°13	3°33	4°54	10°58	n.a.	M24
T 25	6 0 38	0♑59'20	27°13	19°33	14°10	24°23	18° 4	13° 2	14°50	3° 4	17°14	3°31	4°51	11° 5	n.a.	T 25
W26	6 4 35	2° 0'23	10♍ 1	20°33	15°25	24°59	18° 6	12°59	14°48	3° 7	17°14	3°D31	4°47	11°11	n.a.	W26
T 27	6 8 31	3° 1'25	22°27	21°25	16°40	25°34	18° 8	12°56	14°45	3° 9	17°15	3°32	4°44	11°18	n.a.	T 27
F 28	6 12 28	4° 2'26	4♎36	22°10	17°55	26°10	18°10	12°53	14°43	3°11	17°15	3°R32	4°41	11°25	n.a.	F 28
S 29	6 16 24	5° 3'27	16°33	22°45	19°10	26°46	18°12	12°49	14°40	3°13	17°16	3°31	4°38	11°31	n.a.	S 29
S 30	6 20 21	6° 4'27	28°24	23°11	20°25	27°21	18°13	12°46	14°38	3°16	17°16	3°28	4°35	11°38	n.a.	S 30
M31	6 24 18	7♑ 5'25	10♏14	23♑27	21♐41	27♓57	18♍14	12♌43	14♋35	3♑18	17♓17	3♍23	4♍32	11♏45	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s38	0s52	2n39	24s30	1s57	15s11	1n 7	8s10	0s32	6n42	1n22	18n19	1n29	23n18	0n31	23s11	0n30	20s57	17s17	9n13	9n22	10s 9		n.a.
S 2	21 49	4 43	3 28	24 45	1 59	15 35	1 5	7 56	0 30	6 40	1 22	18 19	1 29	23 18	0 31	23 11	0 30	20 57	17 17	9 16	9 23	10 11		n.a.
M 3	21 59	8 23	4 8	24 58	2 1	15 59	1 3	7 41	0 28	6 38	1 23	18 19	1 29	23 18	0 32	23 11	0 30	20 56	17 17	9 19	9 25	10 12		n.a.
T 4	22 8	11 44	4 37	25 10	2 3	16 22	1 1	7 27	0 27	6 36	1 23	18 20	1 29	23 18	0 32	23 11	0 30	20 56	17 16	9 23	9 26	10 14		n.a.
W 5	22 17	14 37	4 55	25 20	2 5	16 45	0 59	7 13	0 25	6 34	1 23	18 20	1 29	23 19	0 32	23 11	0 30	20 56	17 16	9 28	9 27	10 16		n.a.
T 6	22 26	16 55	4 59	25 29	2 6	17 8	0 57	6 58	0 23	6 32	1 23	18 21	1 30	23 19	0 32	23 11	0 30	20 55	17 16	9 34	9 28	10 18		n.a.
F 7	22 34	18 29	4 50	25 36	2 7	17 30	0 54	6 43	0 22	6 30	1 24	18 21	1 30	23 19	0 32	23 11	0 30	20 55	17 15	9 39	9 29	10 19		n.a.
S 8	22 42	19 14	4 28	25 41	2 7	17 52	0 52	6 29	0 20	6 28	1 24	18 22	1 30	23 19	0 32	23 11	0 30	20 55	17 15	9 45	9 31	10 21		n.a.
S 9	22 49	19 4	3 52	25 45	2 6	18 13	0 50	6 14	0 19	6 26	1 24	18 22	1 30	23 20	0 32	23 11	0 30	20 54	17 14	9 49	9 32	10 23		n.a.
M10	22 56	17 58	3 5	25 47	2 6	18 33	0 47	5 59	0 17	6 25	1 24	18 23	1 31	23 20	0 32	23 11	0 30	20 54	17 14	9 52	9 33	10 25		n.a.
T 11	23 2	15 57	2 8	25 47	2 4	18 54	0 45	5 44	0 16	6 23	1 25	18 24	1 31	23 20	0 32	23 11	0 30	20 53	17 14	9 54	9 34	10 26		n.a.
W12	23 8	13 6	1 3	25 45	2 2	19 13	0 43	5 30	0 14	6 22	1 25	18 24	1 31	23 20	0 32	23 11	0 30	20 53	17 13	9 54	9 35	10 28		n.a.
T 13	23 14	9 32	0s 7	25 41	2 0	19 32	0 40	5 15	0 13	6 20	1 25	18 25	1 31	23 21	0 32	23 11	0 30	20 53	17 13	9 55	9 36	10 30		n.a.
F 14	23 19	5 24	1 18	25 35	1 56	19 51	0 38	5 0	0 12	6 19	1 26	18 26	1 32	23 21	0 32	23 11	0 30	20 52	17 13	9 55	9 38	10 32		n.a.
S 15	23 23	0 53	2 26	25 28	1 52	20 9	0 35	4 45	0 10	6 17	1 26	18 27	1 32	23 21	0 32	23 11	0 30	20 52	17 12	9 55	9 39	10 33		n.a.
S 16	23 27	3n47	3 26	25 19	1 48	20 26	0 33	4 30	0 9	6 16	1 26	18 27	1 32	23 22	0 32	23 11	0 30	20 51	17 12	9 56	9 40	10 35		n.a.
M17	23 31	8 20	4 15	25 7	1 42	20 43	0 30	4 15	0 7	6 15	1 26	18 28	1 32	23 22	0 32	23 11	0 30	20 51	17 11	9 57	9 41	10 37		n.a.
T 18	23 34	12 28	4 48	24 54	1 36	20 59	0 28	4 0	0 6	6 14	1 27	18 29	1 32	23 22	0 32	23 11	0 30	20 50	17 11	10 0	9 42	10 38		n.a.
W19	23 37	15 50	5 2	24 40	1 29	21 15	0 25	3 44	0 5	6 13	1 27	18 30	1 33	23 22	0 32	23 11	0 30	20 50	17 11	10 4	9 43	10 40		n.a.
T 20	23 39	18 10	4 55	24 23	1 21	21 30	0 23	3 29	0 4	6 12	1 27	18 31	1 33	23 23	0 32	23 11	0 30	20 49	17 10	10 8	9 45	10 42		n.a.
F 21	23 40	19 14	4 28	24 6	1 12	21 44	0 20	3 14	0 2	6 11	1 28	18 32	1 33	23 23	0 32	23 11	0 30	20 49	17 10	10 12	9 46	10 44		n.a.
S 22	23 42	19 1	3 44	23 46	1 2	21 58	0 18	2 59	0 1	6 10	1 28	18 33	1 33	23 23	0 32	23 11	0 30	20 49	17 10	10 15	9 47	10 45		n.a.
S 23	23 42	17 36	2 47	23 26	0 51	22 11	0 15	2 44	0n 0	6 9	1 28	18 34	1 33	23 24	0 32	23 11	0 30	20 48	17 9	10 18	9 48	10 47		n.a.
M24	23 43	15 11	1 42	23 4	0 39	22 24	0 13	2 28	0 1	6 8	1 28	18 35	1 34	23 24	0 32	23 11	0 30	20 48	17 9	10 19	9 49	10 49		n.a.
T 25	23 42	12 3	0 34	22 42	0 26	22 35	0 10	2 13	0 3	6 8	1 29	18 36	1 34	23 24	0 32	23 11	0 30	20 47	17 9	10 20	9 51	10 51		n.a.
W26	23 42	8 26	0n35	22 19	0 12	22 46	0 8	1 58	0 4	6 7	1 29	18 37	1 34	23 24	0 32	23 11	0 30	20 46	17 8	10 20	9 52	10 52		n.a.
T 27	23 40	4 33	1 39	21 57	0n 2	22 57	0 5	1 42	0 5	6 7	1 29	18 38	1 34	23 25	0 32	23 11	0 30	20 46	17 8	10 20	9 53	10 54		n.a.
F 28	23 39	0 34	2 38	21 34	0 18	23 7	0 3	1 27	0 6	6 6	1 30	18 39	1 35	23 25	0 32	23 10	0 30	20 45	17 8	10 19	9 54	10 56		n.a.
S 29	23 37	3s22	3 29	21 12	0 35	23 16	0 0	1 12	0 7	6 6	1 30	18 40	1 35	23 25	0 32	23 10	0 30	20 45	17 7	10 20	9 55	10 57		n.a.
S 30	23 34	7 8	4 10	20 50	0 52	23 24	0s 2	0 56	0 8	6 5	1 30	18 41	1 35	23 26	0 32	23 10	0 30	20 44	17 7	10 21	9 56	10 59		n.a.
M31	23s31	10s37	4n41	20s30	1n10	23s31	0s 5	0s41	0n 9	6n 5	1n31	18n42	1n35	23n26	0n32	23s10	0n30	20s44	17s 6	10n23	9n58	11s 1		n.a.

Julian Day Number = 1669161.5, Delta T = 03h21m31s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'32, Lahiri = - 5°55'32 Julian Calendar 1 Dec. 144 BCE == Greg. Calendar 28 Nov. 144 BCE

The year -143 astronomical counting style corresponds to year 144 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

JANUARY 143 BCE (-142) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 28 14	8♑ 6'23	22♏ 7	23°R32	22♐56	28♓33	18♍15	12°R39	14°R32	3♑20	17♓17	3°R16	4♍28	11♏52	n.a.	T 1
W 2	6 32 11	9° 7'20	4♐ 6	23♑25	24°11	29° 9	18°16	12♎36	14♋30	3°22	17°18	3♍ 6	4°25	11°58	n.a.	W 2
T 3	6 36 7	10° 8'16	16°14	23° 7	25°26	29°45	18°17	12°32	14°27	3°25	17°19	2°56	4°22	12° 5	n.a.	T 3
F 4	6 40 4	11° 9'11	28°33	22°38	26°41	0♈21	18°17	12°29	14°25	3°27	17°19	2°45	4°19	12°12	n.a.	F 4
S 5	6 44 0	12°10'04	11♑ 2	21°59	27°56	0°58	18°17	12°25	14°22	3°29	17°20	2°36	4°16	12°18	n.a.	S 5
S 6	6 47 57	13°10'57	23°44	21°11	29°11	1°34	18°R18	12°21	14°19	3°31	17°21	2°28	4°12	12°25	n.a.	S 6
M 7	6 51 54	14°11'48	6♒37	20°14	0♑26	2°10	18°17	12°17	14°17	3°34	17°21	2°22	4° 9	12°32	n.a.	M 7
T 8	6 55 50	15°12'37	19°42	19°11	1°41	2°46	18°17	12°13	14°14	3°36	17°22	2°19	4° 6	12°39	n.a.	T 8
W 9	6 59 47	16°13'25	2♓57	18° 3	2°56	3°23	18°17	12° 9	14°12	3°38	17°23	2°D19	4° 3	12°45	n.a.	W 9
T 10	7 3 43	17°14'11	16°25	16°53	4°11	3°59	18°16	12° 5	14° 9	3°40	17°24	2°19	4° 0	12°52	n.a.	T 10
F 11	7 7 40	18°14'55	0♈ 4	15°41	5°26	4°36	18°15	12° 1	14° 6	3°43	17°25	2°21	3°57	12°59	n.a.	F 11
S 12	7 11 36	19°15'38	13°56	14°31	6°41	5°12	18°14	11°57	14° 4	3°45	17°25	2°R22	3°53	13° 5	n.a.	S 12
S 13	7 15 33	20°16'18	28° 0	13°24	7°56	5°49	18°13	11°53	14° 1	3°47	17°26	2°21	3°50	13°12	n.a.	S 13
M14	7 19 29	21°16'57	12♉16	12°21	9°11	6°25	18°11	11°48	13°58	3°49	17°27	2°20	3°47	13°19	n.a.	M14
T 15	7 23 26	22°17'34	26°41	11°24	10°26	7° 2	18° 9	11°44	13°56	3°51	17°28	2°16	3°44	13°26	n.a.	T 15
W16	7 27 23	23°18'09	11♊11	10°33	11°41	7°39	18° 8	11°40	13°53	3°54	17°29	2°11	3°41	13°32	n.a.	W16
T 17	7 31 19	24°18'43	25°41	9°49	12°56	8°15	18° 6	11°35	13°51	3°56	17°30	2° 5	3°38	13°39	n.a.	T 17
F 18	7 35 16	25°19'14	10♋ 5	9°13	14°11	8°52	18° 3	11°31	13°48	3°58	17°31	1°59	3°34	13°46	n.a.	F 18
S 19	7 39 12	26°19'44	24°17	8°45	15°26	9°29	18° 1	11°26	13°46	4° 0	17°32	1°54	3°31	13°52	n.a.	S 19
S 20	7 43 9	27°20'12	8♌11	8°25	16°41	10° 5	17°58	11°22	13°43	4° 2	17°33	1°50	3°28	13°59	n.a.	S 20
M21	7 47 5	28°20'39	21°44	8°12	17°56	10°42	17°56	11°17	13°41	4° 4	17°34	1°48	3°25	14° 6	n.a.	M21
T 22	7 51 2	29°21'03	4♍55	8°D 6	19°11	11°19	17°53	11°12	13°38	4° 7	17°35	1°D47	3°22	14°13	n.a.	T 22
W23	7 54 58	0♒21'27	17°44	8° 7	20°26	11°56	17°50	11° 8	13°36	4° 9	17°36	1°48	3°18	14°19	n.a.	W23
T 24	7 58 55	1°21'48	0♎13	8°15	21°40	12°33	17°46	11° 3	13°33	4°11	17°37	1°50	3°15	14°26	n.a.	T 24
F 25	8 2 52	2°22'08	12°26	8°29	22°55	13°10	17°43	10°58	13°31	4°13	17°38	1°52	3°12	14°33	n.a.	F 25
S 26	8 6 48	3°22'26	24°27	8°49	24°10	13°46	17°39	10°54	13°28	4°15	17°39	1°53	3° 9	14°39	n.a.	S 26
S 27	8 10 45	4°22'43	6♏21	9°14	25°25	14°23	17°35	10°49	13°26	4°17	17°40	1°R53	3° 6	14°46	n.a.	S 27
M28	8 14 41	5°22'58	18°12	9°44	26°40	15° 0	17°31	10°44	13°23	4°19	17°41	1°53	3° 3	14°53	n.a.	M28
T 29	8 18 38	6°23'12	0♐ 7	10°19	27°55	15°37	17°27	10°40	13°21	4°21	17°42	1°51	2°59	15° 0	n.a.	T 29
W30	8 22 34	7°23'24	12° 8	10°58	29° 9	16°14	17°23	10°35	13°19	4°23	17°43	1°48	2°56	15° 6	n.a.	W30
T 31	8 26 31	8♒23'34	24♐21	11♑41	0♒24	16♈51	17♍18	10♎30	13♋16	4♑25	17♓44	1♍44	2♍53	15♏13	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23s28	13s41	5n 0	20s12	1n28	23s38	0s 7	0s25	0n11	6n 5	1n31	18n43	1n35	23n26	0n32	23s10	0n30	20s43	17s 6	10n25	9n59	11s 3			n.a.
W 2	23 24	16 12	5 5	19 55	1 46	23 45	0 10	0 10	0 12	6 5	1 31	18 45	1 35	23 27	0 32	23 10	0 30	20 43	17 6	10 29	10 0	11 4			n.a.
T 3	23 19	18 4	4 57	19 40	2 4	23 50	0 12	0n 6	0 13	6 5	1 31	18 46	1 36	23 27	0 32	23 10	0 30	20 42	17 5	10 33	10 1	11 6			n.a.
F 4	23 14	19 7	4 35	19 28	2 21	23 55	0 15	0 21	0 14	6 5	1 32	18 47	1 36	23 27	0 32	23 10	0 30	20 42	17 5	10 36	10 2	11 8			n.a.
S 5	23 9	19 15	4 0	19 18	2 38	23 59	0 17	0 37	0 15	6 5	1 32	18 48	1 36	23 27	0 32	23 10	0 30	20 41	17 5	10 40	10 3	11 9			n.a.
S 6	23 3	18 26	3 12	19 10	2 53	24 2	0 19	0 52	0 16	6 6	1 32	18 50	1 36	23 28	0 32	23 10	0 30	20 40	17 4	10 43	10 5	11 11			n.a.
M 7	22 57	16 40	2 14	19 5	3 7	24 4	0 22	1 8	0 17	6 6	1 33	18 51	1 36	23 28	0 32	23 10	0 30	20 40	17 4	10 45	10 6	11 13			n.a.
T 8	22 50	14 0	1 8	19 2	3 19	24 6	0 24	1 23	0 18	6 6	1 33	18 52	1 37	23 28	0 32	23 10	0 30	20 39	17 4	10 46	10 7	11 15			n.a.
W 9	22 43	10 35	0s 4	19 1	3 29	24 7	0 26	1 38	0 19	6 7	1 33	18 53	1 37	23 29	0 32	23 10	0 30	20 39	17 3	10 46	10 8	11 16			n.a.
T 10	22 35	6 35	1 16	19 3	3 37	24 7	0 29	1 54	0 19	6 7	1 34	18 55	1 37	23 29	0 32	23 10	0 30	20 38	17 3	10 46	10 9	11 18			n.a.
F 11	22 27	2 11	2 24	19 6	3 42	24 7	0 31	2 9	0 20	6 8	1 34	18 56	1 37	23 29	0 32	23 10	0 30	20 37	17 3	10 45	10 10	11 20			n.a.
S 12	22 19	2n24	3 26	19 11	3 45	24 6	0 33	2 25	0 21	6 9	1 34	18 57	1 37	23 29	0 32	23 10	0 30	20 37	17 3	10 45	10 12	11 21			n.a.
S 13	22 10	6 54	4 16	19 17	3 46	24 4	0 35	2 40	0 22	6 9	1 34	18 59	1 37	23 30	0 32	23 10	0 30	20 36	17 2	10 45	10 13	11 23			n.a.
M14	22 0	11 4	4 51	19 25	3 44	24 1	0 38	2 56	0 23	6 10	1 35	19 0	1 38	23 30	0 32	23 10	0 30	20 36	17 2	10 46	10 14	11 25			n.a.
T 15	21 51	14 38	5 8	19 33	3 41	23 57	0 40	3 11	0 24	6 11	1 35	19 2	1 38	23 30	0 32	23 10	0 30	20 35	17 2	10 47	10 15	11 27			n.a.
W16	21 40	17 19	5 6	19 43	3 35	23 53	0 42	3 27	0 25	6 12	1 35	19 3	1 38	23 31	0 32	23 9	0 30	20 34	17 1	10 49	10 16	11 28			n.a.
T 17	21 30	18 54	4 44	19 53	3 28	23 48	0 44	3 42	0 26	6 13	1 36	19 4	1 38	23 31	0 32	23 9	0 30	20 34	17 1	10 51	10 17	11 30			n.a.
F 18	21 19	19 16	4 4	20 4	3 20	23 42	0 46	3 58	0 27	6 14	1 36	19 6	1 38	23 31	0 32	23 9	0 30	20 33	17 1	10 53	10 19	11 32			n.a.
S 19	21 7	18 23	3 10	20 15	3 10	23 36	0 48	4 13	0 27	6 16	1 36	19 7	1 38	23 31	0 32	23 9	0 30	20 32	17 0	10 55	10 20	11 33			n.a.
S 20	20 56	16 25	2 5	20 27	3 0	23 29	0 50	4 28	0 28	6 17	1 36	19 8	1 38	23 32	0 32	23 9	0 30	20 32	17 0	10 57	10 21	11 35			n.a.
M21	20 44	13 33	0 55	20 38	2 49	23 21	0 52	4 44	0 29	6 18	1 37	19 10	1 39	23 32	0 32	23 9	0 30	20 31	17 0	10 57	10 22	11 37			n.a.
T 22	20 31	10 5	0n17	20 50	2 38	23 12	0 54	4 59	0 30	6 20	1 37	19 11	1 39	23 32	0 32	23 9	0 30	20 30	17 0	10 57	10 23	11 38			n.a.
W23	20 18	6 13	1 26	21 2	2 26	23 3	0 56	5 14	0 31	6 21	1 37	19 13	1 39	23 32	0 32	23 9	0 30	20 30	16 59	10 57	10 24	11 40			n.a.
T 24	20 5	2 12	2 29	21 13	2 14	22 53	0 57	5 29	0 31	6 23	1 37	19 14	1 39	23 33	0 32	23 9	0 30	20 29	16 59	10 57	10 26	11 42			n.a.
F 25	19 51	1s50	3 24	21 25	2 2	22 42	0 59	5 45	0 32	6 24	1 38	19 16	1 39	23 33	0 32	23 9	0 30	20 28	16 59	10 56	10 27	11 44			n.a.
S 26	19 37	5 43	4 9	21 36	1 49	22 31	1 1	6 0	0 33	6 26	1 38	19 17	1 39	23 33	0 32	23 9	0 30	20 28	16 59	10 55	10 28	11 45			n.a.
S 27	19 23	9 20	4 43	21 46	1 37	22 19	1 2	6 15	0 34	6 28	1 38	19 18	1 39	23 33	0 32	23 9	0 30	20 27	16 58	10 55	10 29	11 47			n.a.
M28	19 8	12 34	5 5	21 56	1 25	22 6	1 4	6 30	0 34	6 30	1 38	19 20	1 39	23 34	0 32	23 9	0 30	20 26	16 58	10 56	10 30	11 49			n.a.
T 29	18 53	15 18	5 14	22 5	1 13	21 53	1 6	6 45	0 35	6 31	1 39	19 21	1 40	23 34	0 32	23 9	0 30	20 26	16 58	10 56	10 31	11 50			n.a.
W30	18 38	17 24	5 9	22 14	1 1	21 39	1 7	7 0	0 36	6 33	1 39	19 23	1 40	23 34	0 32	23 9	0 30	20 25	16 58	10 57	10 32	11 52			n.a.
T 31	18s22	18s46	4n50	22s22	0n50	21s24	1s 8	7n15	0n36	6n35	1n39	19n24	1n40	23n34	0n32	23s 9	0n30	20s24	16s57	10n59	10n34	11s54			n.a.

Julian Day Number = 1669192.5, Delta T = 03h21m30s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'28, Lahiri = - 5°55'27 Julian Calendar 1 Jan. 143 BCE == Greg. Calendar 29 Dec. 144 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

FEBRUARY 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 30 27	9♒23'43	6♉46	12♉28	1♒39	17♈29	17°R14	10°R25	13°R14	4♉27	17♓46	1°R40	2♍50	15♏20	n.a.	F 1
S 2	8 34 24	10°23'49	19°28	13°19	2°54	18° 6	17♍ 9	10♌20	13♋12	4°29	17°47	1♍37	2°47	15°26	n.a.	S 2
S 3	8 38 20	11°23'54	2♒25	14°12	4° 9	18°43	17° 4	10°16	13°10	4°31	17°48	1°34	2°44	15°33	n.a.	S 3
M 4	8 42 17	12°23'57	15°39	15° 9	5°23	19°20	16°59	10°11	13° 8	4°33	17°49	1°32	2°40	15°40	n.a.	M 4
T 5	8 46 14	13°23'58	29° 8	16° 8	6°38	19°57	16°53	10° 6	13° 5	4°34	17°50	1°D31	2°37	15°47	n.a.	T 5
W 6	8 50 10	14°23'57	12♓50	17°10	7°53	20°34	16°48	10° 1	13° 3	4°36	17°51	1°32	2°34	15°53	n.a.	W 6
T 7	8 54 7	15°23'53	26°42	18°15	9° 8	21°11	16°42	9°57	13° 1	4°38	17°53	1°33	2°31	16° 0	n.a.	T 7
F 8	8 58 3	16°23'47	10♈43	19°22	10°22	21°49	16°37	9°52	12°59	4°40	17°54	1°34	2°28	16° 7	n.a.	F 8
S 9	9 2 0	17°23'39	24°50	20°30	11°37	22°26	16°31	9°47	12°57	4°42	17°55	1°35	2°24	16°14	n.a.	S 9
S 10	9 5 56	18°23'29	9♉ 1	21°41	12°52	23° 3	16°25	9°42	12°55	4°44	17°56	1°36	2°21	16°20	n.a.	S 10
M11	9 9 53	19°23'16	23°13	22°54	14° 6	23°40	16°19	9°38	12°53	4°45	17°58	1°R36	2°18	16°27	n.a.	M11
T 12	9 13 49	20°23'01	7♊25	24° 9	15°21	24°17	16°13	9°33	12°51	4°47	17°59	1°35	2°15	16°34	n.a.	T 12
W13	9 17 46	21°22'44	21°33	25°26	16°36	24°55	16° 6	9°28	12°49	4°49	18° 0	1°34	2°12	16°40	n.a.	W13
T 14	9 21 43	22°22'24	5♋35	26°44	17°50	25°32	16° 0	9°24	12°47	4°51	18° 2	1°33	2° 9	16°47	n.a.	T 14
F 15	9 25 39	23°22'02	19°29	28° 4	19° 5	26° 9	15°53	9°19	12°46	4°52	18° 3	1°32	2° 5	16°54	n.a.	F 15
S 16	9 29 36	24°21'37	3♌12	29°26	20°19	26°47	15°47	9°15	12°44	4°54	18° 4	1°31	2° 2	17° 1	n.a.	S 16
S 17	9 33 32	25°21'11	16°41	0♒49	21°34	27°24	15°40	9°10	12°42	4°55	18° 6	1°31	1°59	17° 7	n.a.	S 17
M18	9 37 29	26°20'42	29°55	2°14	22°49	28° 1	15°33	9° 6	12°40	4°57	18° 7	1°D31	1°56	17°14	n.a.	M18
T 19	9 41 25	27°20'11	12♍53	3°40	24° 3	28°38	15°26	9° 1	12°39	4°59	18° 8	1°31	1°53	17°21	n.a.	T 19
W20	9 45 22	28°19'37	25°34	5° 8	25°18	29°16	15°19	8°57	12°37	5° 0	18°10	1°31	1°50	17°27	n.a.	W20
T 21	9 49 18	29°19'02	8♎ 0	6°37	26°32	29°53	15°12	8°53	12°36	5° 2	18°11	1°31	1°46	17°34	n.a.	T 21
F 22	9 53 15	0♓18'25	20°12	8° 8	27°47	0♉30	15° 5	8°48	12°34	5° 3	18°12	1°31	1°43	17°41	n.a.	F 22
S 23	9 57 11	1°17'46	2♏15	9°40	29° 1	1° 8	14°58	8°44	12°33	5° 5	18°14	1°R31	1°40	17°48	n.a.	S 23
S 24	10 1 8	2°17'05	14°10	11°13	0♓16	1°45	14°50	8°40	12°31	5° 6	18°15	1°31	1°37	17°54	n.a.	S 24
M25	10 5 5	3°16'22	26° 3	12°48	1°30	2°22	14°43	8°36	12°30	5° 8	18°16	1°31	1°34	18° 1	n.a.	M25
T 26	10 9 1	4°15'37	7♐58	14°24	2°44	3° 0	14°36	8°32	12°28	5° 9	18°18	1°D31	1°30	18° 8	n.a.	T 26
W27	10 12 58	5°14'51	19°59	16° 1	3°59	3°37	14°28	8°28	12°27	5°10	18°19	1°32	1°27	18°14	n.a.	W27
T 28	10 16 54	6♓14'02	2♉12	17♒40	5♓13	4♉14	14♍21	8♌24	12♋26	5♉12	18♓21	1♍32	1♍24	18♏21	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	18s 6	19s15	4n17	22s29	0n38	21s 9	1s10	7n30	0n37	6n37	1n39	19n26	1n40	23n35	0n32	23s 9	0n30	20s24	16s57	11n 0	10n35	11s55		n.a.	
S 2	17 50	18 48	3 31	22 35	0 27	20 53	1 11	7 45	0 38	6 40	1 40	19 27	1 40	23 35	0 32	23 8	0 30	20 23	16 57	11 1	10 36	11 57		n.a.	
S 3	17 33	17 21	2 34	22 40	0 17	20 37	1 12	8 0	0 38	6 42	1 40	19 28	1 40	23 35	0 32	23 8	0 30	20 22	16 57	11 2	10 37	11 59		n.a.	
M 4	17 16	14 57	1 26	22 44	0 6	20 20	1 14	8 15	0 39	6 44	1 40	19 30	1 40	23 35	0 32	23 8	0 30	20 22	16 56	11 3	10 38	12 0		n.a.	
T 5	16 59	11 42	0 13	22 47	0s 4	20 2	1 15	8 30	0 40	6 46	1 40	19 31	1 40	23 35	0 32	23 8	0 30	20 21	16 56	11 3	10 39	12 2		n.a.	
W 6	16 42	7 46	1s 2	22 49	0 14	19 44	1 16	8 45	0 40	6 49	1 41	19 32	1 40	23 36	0 32	23 8	0 30	20 20	16 56	11 3	10 41	12 4		n.a.	
T 7	16 24	3 23	2 15	22 50	0 23	19 25	1 17	8 59	0 41	6 51	1 41	19 34	1 40	23 36	0 32	23 8	0 30	20 20	16 56	11 3	10 42	12 5		n.a.	
F 8	16 6	1n14	3 20	22 50	0 33	19 5	1 18	9 14	0 42	6 53	1 41	19 35	1 40	23 36	0 32	23 8	0 30	20 19	16 56	11 2	10 43	12 7		n.a.	
S 9	15 48	5 48	4 14	22 48	0 41	18 45	1 19	9 29	0 42	6 56	1 41	19 37	1 40	23 36	0 32	23 8	0 30	20 18	16 55	11 2	10 44	12 9		n.a.	
S 10	15 29	10 3	4 52	22 45	0 50	18 25	1 20	9 43	0 43	6 58	1 41	19 38	1 40	23 36	0 32	23 8	0 30	20 18	16 55	11 2	10 45	12 10		n.a.	
M11	15 10	13 44	5 13	22 41	0 58	18 4	1 21	9 58	0 43	7 1	1 42	19 39	1 41	23 37	0 32	23 8	0 30	20 17	16 55	11 2	10 46	12 12		n.a.	
T 12	14 51	16 37	5 15	22 36	1 5	17 42	1 21	10 12	0 44	7 4	1 42	19 41	1 41	23 37	0 32	23 8	0 30	20 16	16 55	11 2	10 47	12 14		n.a.	
W13	14 32	18 29	4 58	22 29	1 13	17 20	1 22	10 26	0 44	7 6	1 42	19 42	1 41	23 37	0 32	23 8	0 30	20 16	16 55	11 2	10 49	12 15		n.a.	
T 14	14 13	19 13	4 23	22 21	1 20	16 58	1 23	10 41	0 45	7 9	1 42	19 43	1 41	23 37	0 32	23 8	0 30	20 15	16 55	11 3	10 50	12 17		n.a.	
F 15	13 53	18 46	3 32	22 11	1 26	16 35	1 23	10 55	0 46	7 12	1 42	19 44	1 41	23 37	0 32	23 8	0 30	20 14	16 54	11 3	10 51	12 19		n.a.	
S 16	13 33	17 13	2 31	22 0	1 32	16 12	1 24	11 9	0 46	7 14	1 42	19 46	1 41	23 37	0 32	23 8	0 30	20 14	16 54	11 3	10 52	12 20		n.a.	
S 17	13 13	14 43	1 21	21 48	1 38	15 48	1 24	11 23	0 47	7 17	1 43	19 47	1 41	23 38	0 32	23 8	0 30	20 13	16 54	11 3	10 53	12 22		n.a.	
M18	12 53	11 29	0 9	21 34	1 44	15 24	1 24	11 37	0 47	7 20	1 43	19 48	1 41	23 38	0 32	23 7	0 30	20 12	16 54	11 4	10 54	12 24		n.a.	
T 19	12 32	7 46	1n 3	21 19	1 49	14 59	1 25	11 51	0 48	7 23	1 43	19 49	1 41	23 38	0 32	23 7	0 30	20 12	16 54	11 3	10 56	12 25		n.a.	
W20	12 11	3 45	2 10	21 2	1 53	14 34	1 25	12 5	0 48	7 26	1 43	19 51	1 41	23 38	0 32	23 7	0 30	20 11	16 54	11 3	10 57	12 27		n.a.	
T 21	11 50	0s19	3 9	20 43	1 57	14 9	1 25	12 19	0 49	7 29	1 43	19 52	1 41	23 38	0 32	23 7	0 30	20 10	16 54	11 3	10 58	12 29		n.a.	
F 22	11 29	4 18	3 59	20 23	2 1	13 43	1 25	12 33	0 49	7 31	1 43	19 53	1 41	23 38	0 32	23 7	0 30	20 10	16 54	11 3	10 59	12 30		n.a.	
S 23	11 8	8 4	4 37	20 2	2 4	13 17	1 25	12 46	0 50	7 34	1 43	19 54	1 41	23 38	0 32	23 7	0 30	20 9	16 53	11 3	11 0	12 32		n.a.	
S 24	10 47	11 27	5 3	19 38	2 7	12 50	1 25	13 0	0 50	7 37	1 43	19 55	1 41	23 39	0 32	23 7	0 30	20 8	16 53	11 3	11 1	12 34		n.a.	
M25	10 25	14 22	5 16	19 14	2 10	12 23	1 25	13 13	0 51	7 40	1 44	19 56	1 41	23 39	0 32	23 7	0 30	20 8	16 53	11 3	11 2	12 35		n.a.	
T 26	10 3	16 42	5 15	18 48	2 12	11 56	1 25	13 27	0 51	7 43	1 44	19 57	1 41	23 39	0 32	23 7	0 30	20 7	16 53	11 3	11 4	12 37		n.a.	
W27	9 42	18 20	5 1	18 20	2 13	11 29	1 25	13 40	0 52	7 46	1 44	19 58	1 41	23 39	0 32	23 7	0 30	20 7	16 53	11 3	11 5	12 39		n.a.	
T 28	9s20	19s 9	4n33	17s50	2s14	11s 1	1s25	13n54	0n52	7n49	1n44	20n 0	1n41	23n39	0n32	23s 7	0n30	20s 6	16s53	11n 3	11n 6	12s40		n.a.	

Julian Day Number = 1669223.5, Delta T = 03h21m29s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'24, Lahiri = - 5°55'23 Julian Calendar 1 Feb. 143 BCE == Greg. Calendar 29 Jan. 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

MARCH 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 20 51	7♓13'12	14♉39	19♒20	6♓28	4♉52	14°R13	8°R20	12°R25	5♉13	18♓22	1♍32	1♍21	18♏28	n.a.	F 1
S 2	10 24 47	8°12'20	27°26	21° 2	7°42	5°29	14♍ 5	8♌16	12♋24	5°14	18°23	1°33	1°18	18°35	n.a.	S 2
S 3	10 28 44	9°11'26	10♒33	22°45	8°57	6° 7	13°58	8°12	12°22	5°15	18°25	1°34	1°15	18°41	n.a.	S 3
M 4	10 32 40	10°10'29	24° 2	24°30	10°11	6°44	13°50	8° 9	12°21	5°17	18°26	1°34	1°11	18°48	n.a.	M 4
T 5	10 36 37	11° 9'31	7♓51	26°15	11°25	7°21	13°42	8° 5	12°20	5°18	18°28	1°R34	1° 8	18°55	n.a.	T 5
W 6	10 40 34	12° 8'31	21°58	28° 3	12°40	7°59	13°35	8° 1	12°19	5°19	18°29	1°34	1° 5	19° 2	n.a.	W 6
T 7	10 44 30	13° 7'28	6♈19	29°52	13°54	8°36	13°27	7°58	12°19	5°20	18°31	1°33	1° 2	19° 8	n.a.	T 7
F 8	10 48 27	14° 6'23	20°49	1♓42	15° 8	9°14	13°19	7°54	12°18	5°21	18°32	1°31	0°59	19°15	n.a.	F 8
S 9	10 52 23	15° 5'16	5♉21	3°33	16°23	9°51	13°11	7°51	12°17	5°22	18°33	1°30	0°55	19°22	n.a.	S 9
S 10	10 56 20	16° 4'07	19°50	5°26	17°37	10°29	13° 4	7°48	12°16	5°23	18°35	1°28	0°52	19°28	n.a.	S 10
M11	11 0 16	17° 2'55	4♊12	7°21	18°51	11° 6	12°56	7°45	12°15	5°24	18°36	1°27	0°49	19°35	n.a.	M11
T 12	11 4 13	18° 1'41	18°23	9°17	20° 5	11°43	12°48	7°42	12°15	5°25	18°38	1°D27	0°46	19°42	n.a.	T 12
W13	11 8 9	19° 0'24	2♋21	11°14	21°19	12°21	12°41	7°39	12°14	5°26	18°39	1°27	0°43	19°49	n.a.	W13
T 14	11 12 6	19°59'05	16° 6	13°13	22°34	12°58	12°33	7°36	12°14	5°27	18°41	1°28	0°40	19°55	n.a.	T 14
F 15	11 16 3	20°57'44	29°36	15°13	23°48	13°36	12°25	7°33	12°13	5°28	18°42	1°29	0°36	20° 2	n.a.	F 15
S 16	11 19 59	21°56'20	12♌53	17°15	25° 2	14°13	12°18	7°30	12°13	5°29	18°43	1°31	0°33	20° 9	n.a.	S 16
S 17	11 23 56	22°54'54	25°57	19°18	26°16	14°51	12°10	7°28	12°12	5°30	18°45	1°R32	0°30	20°15	n.a.	S 17
M18	11 27 52	23°53'26	8♍48	21°22	27°30	15°28	12° 3	7°25	12°12	5°31	18°46	1°31	0°27	20°22	n.a.	M18
T 19	11 31 49	24°51'56	21°27	23°27	28°44	16° 5	11°56	7°23	12°12	5°31	18°48	1°30	0°24	20°29	n.a.	T 19
W20	11 35 45	25°50'24	3♎55	25°33	29°58	16°43	11°48	7°20	12°12	5°32	18°49	1°28	0°21	20°36	n.a.	W20
T 21	11 39 42	26°48'50	16°12	27°39	1♈13	17°20	11°41	7°18	12°11	5°33	18°51	1°24	0°17	20°42	n.a.	T 21
F 22	11 43 38	27°47'14	28°19	29°47	2°27	17°58	11°34	7°16	12°11	5°34	18°52	1°20	0°14	20°49	n.a.	F 22
S 23	11 47 35	28°45'36	10♏19	1♈54	3°41	18°35	11°27	7°14	12°11	5°34	18°53	1°15	0°11	20°56	n.a.	S 23
S 24	11 51 31	29°43'57	22°13	4° 2	4°55	19°13	11°20	7°12	12°D11	5°35	18°55	1°11	0° 8	21° 2	n.a.	S 24
M25	11 55 28	0♈42'16	4♐ 6	6°10	6° 9	19°50	11°13	7°10	12°11	5°35	18°56	1° 7	0° 5	21° 9	n.a.	M25
T 26	11 59 25	1°40'33	16° 0	8°17	7°23	20°27	11° 6	7° 8	12°11	5°36	18°58	1° 5	0° 1	21°16	n.a.	T 26
W27	12 3 21	2°38'48	28° 0	10°24	8°37	21° 5	10°59	7° 6	12°11	5°36	18°59	1°D 3	29♌58	21°23	n.a.	W27
T 28	12 7 18	3°37'02	10♉10	12°29	9°51	21°42	10°52	7° 5	12°12	5°37	19° 0	1° 3	29°55	21°29	n.a.	T 28
F 29	12 11 14	4°35'15	22°36	14°34	11° 5	22°20	10°46	7° 3	12°12	5°37	19° 2	1° 5	29°52	21°36	n.a.	F 29
S 30	12 15 11	5°33'25	5♒21	16°36	12°19	22°57	10°39	7° 2	12°12	5°38	19° 3	1° 6	29°49	21°43	n.a.	S 30
S 31	12 19 7	6♈31'34	18♒29	18♈37	13♈32	23♉35	10♍33	7♌ 0	12♋13	5♉38	19♓ 5	1♍ 8	29♌46	21♏50	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8s57	19s 3	3n52	17s19	2s15	10s33	1s24	14n 7	0n52	7n52	1n44	20n 1	1n41	23n39	0n32	23s 7	0n30	20s 5	16s53	11n 3	11n 7	12s42		n.a.
S 2	8 35	18 0	2 58	16 46	2 15	10 4	1 24	14 20	0 53	7 55	1 44	20 2	1 41	23 39	0 32	23 7	0 30	20 5	16 53	11 3	11 8	12 43		n.a.
S 3	8 13	15 58	1 54	16 12	2 14	9 36	1 24	14 33	0 53	7 58	1 44	20 3	1 41	23 39	0 32	23 7	0 30	20 4	16 53	11 2	11 9	12 45		n.a.
M 4	7 50	13 0	0 42	15 36	2 14	9 7	1 23	14 46	0 54	8 2	1 44	20 3	1 41	23 39	0 32	23 7	0 30	20 3	16 53	11 2	11 10	12 47		n.a.
T 5	7 28	9 15	0s35	14 58	2 12	8 38	1 22	14 58	0 54	8 5	1 44	20 4	1 41	23 39	0 32	23 7	0 30	20 3	16 53	11 2	11 12	12 48		n.a.
W 6	7 5	4 55	1 51	14 19	2 10	8 8	1 22	15 11	0 55	8 8	1 44	20 5	1 41	23 40	0 32	23 7	0 30	20 2	16 53	11 2	11 13	12 50		n.a.
T 7	6 42	0 13	3 1	13 38	2 8	7 39	1 21	15 24	0 55	8 11	1 44	20 6	1 41	23 40	0 32	23 7	0 30	20 2	16 53	11 3	11 14	12 52		n.a.
F 8	6 19	4n31	4 0	12 56	2 5	7 9	1 20	15 36	0 55	8 14	1 44	20 7	1 41	23 40	0 32	23 6	0 30	20 1	16 52	11 3	11 15	12 53		n.a.
S 9	5 56	9 0	4 44	12 12	2 2	6 39	1 20	15 49	0 56	8 17	1 44	20 8	1 41	23 40	0 32	23 6	0 30	20 0	16 52	11 4	11 16	12 55		n.a.
S 10	5 33	12 56	5 9	11 26	1 58	6 9	1 19	16 1	0 56	8 20	1 44	20 9	1 41	23 40	0 32	23 6	0 30	20 0	16 52	11 4	11 17	12 56		n.a.
M11	5 10	16 3	5 16	10 39	1 53	5 39	1 18	16 13	0 57	8 23	1 44	20 10	1 41	23 40	0 32	23 6	0 30	19 59	16 52	11 5	11 18	12 58		n.a.
T 12	4 47	18 11	5 2	9 51	1 48	5 9	1 17	16 25	0 57	8 26	1 44	20 10	1 41	23 40	0 32	23 6	0 30	19 59	16 52	11 5	11 20	13 0		n.a.
W13	4 24	19 10	4 31	9 0	1 42	4 38	1 16	16 37	0 57	8 29	1 44	20 11	1 41	23 40	0 32	23 6	0 30	19 58	16 52	11 5	11 21	13 1		n.a.
T 14	4 1	19 0	3 45	8 9	1 36	4 7	1 15	16 49	0 58	8 31	1 44	20 12	1 41	23 40	0 32	23 6	0 30	19 57	16 52	11 4	11 22	13 3		n.a.
F 15	3 37	17 44	2 47	7 16	1 30	3 37	1 13	17 1	0 58	8 34	1 44	20 12	1 40	23 40	0 32	23 6	0 30	19 57	16 52	11 4	11 23	13 5		n.a.
S 16	3 14	15 31	1 41	6 21	1 22	3 6	1 12	17 13	0 58	8 37	1 44	20 13	1 40	23 40	0 32	23 6	0 30	19 56	16 52	11 3	11 24	13 6		n.a.
S 17	2 51	12 32	0 31	5 26	1 15	2 35	1 11	17 24	0 59	8 40	1 44	20 14	1 40	23 40	0 32	23 6	0 30	19 56	16 52	11 3	11 25	13 8		n.a.
M18	2 27	8 59	0n40	4 29	1 7	2 4	1 10	17 36	0 59	8 43	1 44	20 14	1 40	23 40	0 32	23 6	0 30	19 55	16 52	11 3	11 26	13 9		n.a.
T 19	2 4	5 4	1 47	3 31	0 58	1 33	1 8	17 47	0 59	8 46	1 44	20 15	1 40	23 40	0 32	23 6	0 30	19 55	16 52	11 4	11 27	13 11		n.a.
W20	1 40	1 0	2 49	2 32	0 49	1 2	1 7	17 58	1 0	8 49	1 44	20 16	1 40	23 40	0 32	23 6	0 30	19 54	16 53	11 5	11 29	13 13		n.a.
T 21	1 17	3s 3	3 41	1 33	0 39	0 31	1 5	18 9	1 0	8 51	1 44	20 16	1 40	23 40	0 31	23 6	0 30	19 54	16 53	11 6	11 30	13 14		n.a.
F 22	0 53	6 55	4 23	0 32	0 29	0n 0	1 4	18 20	1 0	8 54	1 44	20 17	1 40	23 40	0 31	23 6	0 30	19 53	16 53	11 7	11 31	13 16		n.a.
S 23	0 30	10 27	4 52	0n28	0 19	0 32	1 2	18 31	1 1	8 57	1 44	20 17	1 40	23 40	0 31	23 6	0 30	19 52	16 53	11 9	11 32	13 18		n.a.
S 24	0 6	13 33	5 9	1 29	0 9	1 3	1 1	18 42	1 1	8 59	1 43	20 17	1 40	23 40	0 31	23 6	0 30	19 52	16 53	11 11	11 33	13 19		n.a.
M25	0n17	16 5	5 12	2 30	0n 2	1 34	0 59	18 53	1 1	9 2	1 43	20 18	1 40	23 40	0 31	23 6	0 30	19 51	16 53	11 12	11 34	13 21		n.a.
T 26	0 40	17 57	5 2	3 31	0 13	2 5	0 57	19 3	1 2	9 4	1 43	20 18	1 40	23 40	0 31	23 6	0 30	19 51	16 53	11 13	11 35	13 22		n.a.
W27	1 4	19 3	4 39	4 32	0 24	2 36	0 55	19 13	1 2	9 7	1 43	20 19	1 40	23 40	0 31	23 6	0 30	19 50	16 53	11 13	11 37	13 24		n.a.
T 28	1 27	19 17	4 3	5 31	0 35	3 7	0 54	19 24	1 2	9 9	1 43	20 19	1 40	23 40	0 31	23 6	0 30	19 50	16 53	11 13	11 38	13 26		n.a.
F 29	1 51	18 35	3 15	6 30	0 46	3 38	0 52	19 34	1 2	9 12	1 43	20 19	1 40	23 40	0 31	23 6	0 30	19 50	16 53	11 13	11 39	13 27		n.a.
S 30	2 14	16 57	2 16	7 28	0 56	4 9	0 50	19 44	1 3	9 14	1 43	20 20	1 39	23 40	0 31	23 6	0 30	19 49	16 53	11 12	11 40	13 29		n.a.
S 31	2n37	14s22	1n 8	8n24	1n 7	4n40	0s48	19n54	1n 3	9n16	1n43	20n20	1n39	23n40	0n31	23s 6	0n30	19s49	16s53	11n12	11n41	13s30		n.a.

Julian Day Number = 1669251.5, Delta T = 03h21m28s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'20, Lahiri = - 5°55'19 Julian Calendar 1 March 143 BCE == Greg. Calendar 26 Feb. 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

APRIL 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 23 4	7♈29'42	2♓ 3	20♈36	14♈46	24♉12	10°R27	6°R59	12♋13	5♎38	19♓ 6	1°R 8	29♌42	21♏56	n.a.	M 1
T 2	12 27 0	8°27'48	16° 3	22°32	16° 0	24°49	10♍21	6♌58	12°13	5°39	19° 7	1♍ 7	29°39	22° 3	n.a.	T 2
W 3	12 30 57	9°25'52	0♈27	24°25	17°14	25°27	10°15	6°57	12°14	5°39	19° 9	1° 5	29°36	22°10	n.a.	W 3
T 4	12 34 53	10°23'54	15°10	26°16	18°28	26° 4	10° 9	6°56	12°15	5°39	19°10	1° 0	29°33	22°16	n.a.	T 4
F 5	12 38 50	11°21'55	0♉ 5	28° 3	19°42	26°42	10° 3	6°55	12°15	5°40	19°11	0°55	29°30	22°23	n.a.	F 5
S 6	12 42 47	12°19'54	15° 3	29°47	20°56	27°19	9°57	6°55	12°16	5°40	19°13	0°49	29°26	22°30	n.a.	S 6
S 7	12 46 43	13°17'51	29°56	1♉28	22°10	27°57	9°52	6°54	12°17	5°40	19°14	0°43	29°23	22°37	n.a.	S 7
M 8	12 50 40	14°15'47	14♊35	3° 5	23°23	28°34	9°47	6°54	12°17	5°40	19°15	0°38	29°20	22°43	n.a.	M 8
T 9	12 54 36	15°13'40	28°56	4°39	24°37	29°12	9°41	6°53	12°18	5°40	19°17	0°35	29°17	22°50	n.a.	T 9
W10	12 58 33	16°11'32	12♋56	6° 9	25°51	29°49	9°36	6°53	12°19	5°40	19°18	0°D34	29°14	22°57	n.a.	W10
T 11	13 2 29	17° 9'22	26°34	7°35	27° 5	0♊26	9°32	6°53	12°20	5°R40	19°19	0°34	29°11	23° 3	n.a.	T 11
F 12	13 6 26	18° 7'09	9♌53	8°57	28°18	1° 4	9°27	6°D53	12°21	5°40	19°21	0°35	29° 7	23°10	n.a.	F 12
S 13	13 10 22	19° 4'55	22°53	10°15	29°32	1°41	9°22	6°53	12°22	5°40	19°22	0°36	29° 4	23°17	n.a.	S 13
S 14	13 14 19	20° 2'39	5♍38	11°29	0♉46	2°19	9°18	6°53	12°23	5°40	19°23	0°R37	29° 1	23°24	n.a.	S 14
M15	13 18 16	21° 0'22	18°11	12°40	1°59	2°56	9°14	6°53	12°24	5°40	19°24	0°35	28°58	23°30	n.a.	M15
T 16	13 22 12	21°58'02	0♎33	13°46	3°13	3°34	9° 9	6°54	12°26	5°40	19°26	0°31	28°55	23°37	n.a.	T 16
W17	13 26 9	22°55'42	12°46	14°48	4°27	4°11	9° 5	6°54	12°27	5°40	19°27	0°25	28°52	23°44	n.a.	W17
T 18	13 30 5	23°53'19	24°53	15°46	5°40	4°49	9° 2	6°55	12°28	5°39	19°28	0°17	28°48	23°51	n.a.	T 18
F 19	13 34 2	24°50'56	6♏53	16°39	6°54	5°26	8°58	6°55	12°30	5°39	19°29	0° 7	28°45	23°57	n.a.	F 19
S 20	13 37 58	25°48'31	18°49	17°28	8° 7	6° 3	8°55	6°56	12°31	5°39	19°30	29♌57	28°42	24° 4	n.a.	S 20
S 21	13 41 55	26°46'05	0♐42	18°13	9°21	6°41	8°51	6°57	12°32	5°39	19°32	29°46	28°39	24°11	n.a.	S 21
M22	13 45 51	27°43'37	12°34	18°53	10°35	7°18	8°48	6°58	12°34	5°38	19°33	29°37	28°36	24°17	n.a.	M22
T 23	13 49 48	28°41'09	24°28	19°29	11°48	7°56	8°45	6°59	12°35	5°38	19°34	29°30	28°32	24°24	n.a.	T 23
W24	13 53 45	29°38'40	6♑27	20° 0	13° 2	8°33	8°42	7° 0	12°37	5°37	19°35	29°25	28°29	24°31	n.a.	W24
T 25	13 57 41	0♉36'10	18°36	20°27	14°15	9°11	8°40	7° 1	12°39	5°37	19°36	29°22	28°26	24°38	n.a.	T 25
F 26	14 1 38	1°33'38	0♒58	20°48	15°29	9°48	8°37	7° 3	12°40	5°37	19°37	29°D22	28°23	24°44	n.a.	F 26
S 27	14 5 34	2°31'06	13°39	21° 6	16°42	10°25	8°35	7° 4	12°42	5°36	19°39	29°22	28°20	24°51	n.a.	S 27
S 28	14 9 31	3°28'33	26°43	21°18	17°56	11° 3	8°33	7° 6	12°44	5°36	19°40	29°R22	28°17	24°58	n.a.	S 28
M29	14 13 27	4°25'59	10♓14	21°26	19° 9	11°40	8°31	7° 7	12°46	5°35	19°41	29°22	28°13	25° 5	n.a.	M29
T 30	14 17 24	5♉23'24	24♓14	21°R29	20♉22	12♊18	8♍30	7♌ 9	12♋48	5♎34	19♓42	29♌20	28♌10	25♏11	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	3n 0	10s57	0s 5	9n19	1n17	5n11	0s46	20n 3	1n 3	9n19	1n42	20n20	1n39	23n40	0n31	23s 6	0n30	19s48	16s53	11n12	11n42	13s32		n.a.
T 2	3 24	6 48	1 20	10 12	1 27	5 41	0 44	20 13	1 3	9 21	1 42	20 20	1 39	23 40	0 31	23 6	0 30	19 48	16 53	11 12	11 43	13 33		n.a.
W 3	3 47	2 9	2 33	11 4	1 36	6 12	0 42	20 22	1 4	9 23	1 42	20 21	1 39	23 39	0 31	23 6	0 30	19 47	16 54	11 13	11 44	13 35		n.a.
T 4	4 10	2n43	3 36	11 53	1 45	6 42	0 40	20 32	1 4	9 25	1 42	20 21	1 39	23 39	0 31	23 6	0 30	19 47	16 54	11 14	11 46	13 37		n.a.
F 5	4 33	7 29	4 26	12 40	1 54	7 12	0 38	20 41	1 4	9 27	1 42	20 21	1 39	23 39	0 31	23 6	0 30	19 46	16 54	11 16	11 47	13 38		n.a.
S 6	4 56	11 47	4 58	13 25	2 2	7 43	0 36	20 50	1 4	9 29	1 42	20 21	1 39	23 39	0 31	23 6	0 30	19 46	16 54	11 19	11 48	13 40		n.a.
S 7	5 18	15 20	5 9	14 7	2 9	8 12	0 33	20 59	1 5	9 31	1 41	20 21	1 39	23 39	0 31	23 6	0 30	19 46	16 54	11 21	11 49	13 41		n.a.
M 8	5 41	17 50	5 0	14 48	2 15	8 42	0 31	21 7	1 5	9 33	1 41	20 21	1 39	23 39	0 31	23 6	0 30	19 45	16 54	11 22	11 50	13 43		n.a.
T 9	6 4	19 10	4 32	15 25	2 21	9 12	0 29	21 16	1 5	9 35	1 41	20 21	1 39	23 39	0 31	23 6	0 30	19 45	16 54	11 23	11 51	13 45		n.a.
W10	6 26	19 17	3 49	16 0	2 26	9 41	0 27	21 24	1 5	9 37	1 41	20 21	1 39	23 39	0 31	23 6	0 30	19 44	16 55	11 24	11 52	13 46		n.a.
T 11	6 49	18 15	2 53	16 33	2 30	10 10	0 24	21 33	1 6	9 38	1 41	20 21	1 38	23 39	0 31	23 6	0 30	19 44	16 55	11 24	11 53	13 48		n.a.
F 12	7 11	16 13	1 50	17 3	2 33	10 39	0 22	21 41	1 6	9 40	1 41	20 21	1 38	23 39	0 31	23 6	0 30	19 44	16 55	11 23	11 55	13 49		n.a.
S 13	7 33	13 23	0 42	17 31	2 35	11 7	0 20	21 49	1 6	9 41	1 40	20 21	1 38	23 39	0 31	23 6	0 30	19 43	16 55	11 23	11 56	13 51		n.a.
S 14	7 55	9 58	0n27	17 56	2 37	11 36	0 17	21 56	1 6	9 43	1 40	20 21	1 38	23 38	0 31	23 6	0 30	19 43	16 55	11 23	11 57	13 52		n.a.
M15	8 17	6 9	1 33	18 19	2 38	12 4	0 15	22 4	1 6	9 44	1 40	20 20	1 38	23 38	0 31	23 6	0 30	19 43	16 55	11 23	11 58	13 54		n.a.
T 16	8 39	2 8	2 34	18 39	2 37	12 32	0 13	22 12	1 7	9 46	1 40	20 20	1 38	23 38	0 31	23 6	0 30	19 42	16 56	11 25	11 59	13 56		n.a.
W17	9 1	1s56	3 26	18 57	2 36	12 59	0 10	22 19	1 7	9 47	1 39	20 20	1 38	23 38	0 31	23 6	0 30	19 42	16 56	11 27	12 0	13 57		n.a.
T 18	9 22	5 53	4 9	19 12	2 34	13 26	0 8	22 26	1 7	9 48	1 39	20 20	1 38	23 38	0 31	23 6	0 30	19 42	16 56	11 30	12 1	13 59		n.a.
F 19	9 44	9 33	4 40	19 25	2 31	13 53	0 5	22 33	1 7	9 49	1 39	20 20	1 38	23 38	0 31	23 6	0 30	19 41	16 56	11 33	12 2	14 0		n.a.
S 20	10 5	12 50	4 59	19 35	2 27	14 20	0 3	22 40	1 7	9 51	1 39	20 19	1 38	23 38	0 31	23 6	0 30	19 41	16 56	11 37	12 3	14 2		n.a.
S 21	10 26	15 34	5 4	19 43	2 22	14 46	0 1	22 47	1 8	9 52	1 39	20 19	1 38	23 37	0 31	23 6	0 30	19 41	16 57	11 41	12 5	14 3		n.a.
M22	10 47	17 39	4 57	19 49	2 16	15 12	0n 2	22 53	1 8	9 53	1 38	20 19	1 37	23 37	0 31	23 6	0 30	19 40	16 57	11 44	12 6	14 5		n.a.
T 23	11 8	18 59	4 36	19 52	2 9	15 37	0 4	23 0	1 8	9 53	1 38	20 18	1 37	23 37	0 31	23 6	0 30	19 40	16 57	11 47	12 7	14 7		n.a.
W24	11 28	19 30	4 4	19 53	2 1	16 2	0 7	23 6	1 8	9 54	1 38	20 18	1 37	23 37	0 31	23 6	0 30	19 40	16 57	11 48	12 8	14 8		n.a.
T 25	11 49	19 6	3 20	19 52	1 52	16 27	0 9	23 12	1 8	9 55	1 38	20 17	1 37	23 37	0 31	23 6	0 30	19 40	16 57	11 49	12 9	14 10		n.a.
F 26	12 9	17 48	2 25	19 48	1 42	16 51	0 12	23 18	1 8	9 56	1 37	20 17	1 37	23 37	0 31	23 6	0 30	19 39	16 58	11 50	12 10	14 11		n.a.
S 27	12 29	15 35	1 23	19 42	1 32	17 15	0 14	23 24	1 9	9 56	1 37	20 17	1 37	23 36	0 31	23 6	0 30	19 39	16 58	11 49	12 11	14 13		n.a.
S 28	12 49	12 32	0 14	19 34	1 20	17 38	0 17	23 29	1 9	9 57	1 37	20 16	1 37	23 36	0 31	23 6	0 30	19 39	16 58	11 49	12 12	14 14		n.a.
M29	13 9	8 42	0s58	19 24	1 7	18 1	0 19	23 35	1 9	9 57	1 37	20 16	1 37	23 36	0 31	23 6	0 30	19 39	16 58	11 49	12 14	14 16		n.a.
T 30	13n28	4s17	2s 8	19n12	0n54	18n23	0n22	23n40	1n 9	9n58	1n36	20n15	1n37	23n36	0n31	23s 6	0n30	19s39	16s59	11n50	12n15	14s17		n.a.

Julian Day Number = 1669282.5, Delta T = 03h21m27s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'16, Lahiri = - 5°55'15 Julian Calendar 1 Apr. 143 BCE == Greg. Calendar 29 March 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

MAY 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 21 20	6♉20'49	8♈41	21°R27	21♉36	12♊55	8°R28	7♌11	12♋50	5°R34	19♓43	29°R15	28♌ 7	25♏18	n.a.	W 1
T 2	14 25 17	7°18'12	23°33	21♉21	22°49	13°33	8♍27	7°13	12°51	5♑33	19°44	29♌ 8	28° 4	25°25	n.a.	T 2
F 3	14 29 14	8°15'35	8♉42	21°11	24° 3	14°10	8°25	7°15	12°53	5°33	19°45	28°59	28° 1	25°31	n.a.	F 3
S 4	14 33 10	9°12'56	23°57	20°57	25°16	14°48	8°24	7°17	12°56	5°32	19°46	28°49	27°58	25°38	n.a.	S 4
S 5	14 37 7	10°10'17	9♊ 9	20°38	26°29	15°25	8°24	7°20	12°58	5°31	19°47	28°39	27°54	25°45	n.a.	S 5
M 6	14 41 3	11° 7'37	24° 5	20°17	27°43	16° 3	8°23	7°22	13° 0	5°30	19°48	28°31	27°51	25°52	n.a.	M 6
T 7	14 45 0	12° 4'55	8♋40	19°52	28°56	16°40	8°23	7°24	13° 2	5°30	19°49	28°25	27°48	25°58	n.a.	T 7
W 8	14 48 56	13° 2'13	22°49	19°24	0♊ 9	17°18	8°22	7°27	13° 4	5°29	19°50	28°22	27°45	26° 5	n.a.	W 8
T 9	14 52 53	13°59'29	6♌31	18°54	1°23	17°55	8°D22	7°30	13° 6	5°28	19°51	28°21	27°42	26°12	n.a.	T 9
F 10	14 56 49	14°56'45	19°47	18°23	2°36	18°33	8°22	7°32	13° 9	5°27	19°52	28°D20	27°38	26°18	n.a.	F 10
S 11	15 0 46	15°53'59	2♍41	17°50	3°49	19°10	8°23	7°35	13°11	5°26	19°52	28°R20	27°35	26°25	n.a.	S 11
S 12	15 4 43	16°51'12	15°17	17°16	5° 2	19°48	8°23	7°38	13°14	5°25	19°53	28°19	27°32	26°32	n.a.	S 12
M13	15 8 39	17°48'24	27°39	16°42	6°16	20°25	8°24	7°41	13°16	5°24	19°54	28°17	27°29	26°39	n.a.	M13
T 14	15 12 36	18°45'36	9♎50	16° 9	7°29	21° 3	8°25	7°44	13°18	5°23	19°55	28°11	27°26	26°45	n.a.	T 14
W15	15 16 32	19°42'46	21°53	15°37	8°42	21°40	8°26	7°47	13°21	5°22	19°56	28° 3	27°23	26°52	n.a.	W15
T 16	15 20 29	20°39'56	3♏51	15° 6	9°55	22°17	8°27	7°51	13°23	5°21	19°57	27°52	27°19	26°59	n.a.	T 16
F 17	15 24 25	21°37'05	15°46	14°38	11° 8	22°55	8°28	7°54	13°26	5°20	19°57	27°39	27°16	27° 6	n.a.	F 17
S 18	15 28 22	22°34'14	27°39	14°12	12°22	23°32	8°30	7°58	13°29	5°19	19°58	27°25	27°13	27°12	n.a.	S 18
S 19	15 32 18	23°31'23	9♐32	13°49	13°35	24°10	8°31	8° 1	13°31	5°18	19°59	27°12	27°10	27°19	n.a.	S 19
M20	15 36 15	24°28'31	21°26	13°30	14°48	24°48	8°33	8° 5	13°34	5°17	20° 0	26°59	27° 7	27°26	n.a.	M20
T 21	15 40 12	25°25'38	3♑23	13°14	16° 1	25°25	8°35	8° 9	13°37	5°16	20° 0	26°49	27° 3	27°32	n.a.	T 21
W22	15 44 8	26°22'46	15°25	13° 3	17°14	26° 3	8°37	8°12	13°40	5°15	20° 1	26°42	27° 0	27°39	n.a.	W22
T 23	15 48 5	27°19'53	27°36	12°55	18°27	26°40	8°40	8°16	13°42	5°14	20° 2	26°37	26°57	27°46	n.a.	T 23
F 24	15 52 1	28°17'01	9♒59	12°D52	19°40	27°18	8°42	8°20	13°45	5°12	20° 2	26°35	26°54	27°53	n.a.	F 24
S 25	15 55 58	29°14'08	22°38	12°54	20°53	27°55	8°45	8°24	13°48	5°11	20° 3	26°35	26°51	27°59	n.a.	S 25
S 26	15 59 54	0♊11'15	5♓38	13° 1	22° 6	28°33	8°48	8°28	13°51	5°10	20° 4	26°35	26°48	28° 6	n.a.	S 26
M27	16 3 51	1° 8'22	19° 3	13°12	23°19	29°10	8°51	8°33	13°54	5° 9	20° 4	26°34	26°44	28°13	n.a.	M27
T 28	16 7 47	2° 5'30	2♈55	13°28	24°32	29°48	8°54	8°37	13°57	5° 7	20° 5	26°32	26°41	28°20	n.a.	T 28
W29	16 11 44	3° 2'37	17°16	13°48	25°45	0♋25	8°58	8°41	14° 0	5° 6	20° 5	26°27	26°38	28°26	n.a.	W29
T 30	16 15 41	3°59'45	2♉ 3	14°14	26°58	1° 3	9° 1	8°46	14° 3	5° 5	20° 6	26°19	26°35	28°33	n.a.	T 30
F 31	16 19 37	4♊56'53	17♉ 9	14♉44	28♊11	1♋41	9♍ 5	8♌50	14♋ 6	5♑ 3	20♓ 6	26♌10	26♌32	28♏40	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	13n47	0n32	3s13	18n58	0n40	18n45	0n24	23n45	1n 9	9n58	1n36	20n14	1n37	23n36	0n31	23s 6	0n30	19s38	16s59	11n52	12n16	14s19			n.a.
T 2	14 6	5 26	4 6	18 42	0 25	19 7	0 27	23 50	1 9	9 58	1 36	20 14	1 36	23 35	0 31	23 6	0 30	19 38	16 59	11 54	12 17	14 20			n.a.
F 3	14 25	10 5	4 44	18 24	0 9	19 28	0 29	23 54	1 9	9 59	1 36	20 13	1 36	23 35	0 31	23 6	0 30	19 38	16 59	11 58	12 18	14 22			n.a.
S 4	14 44	14 7	5 1	18 5	0s 7	19 48	0 31	23 59	1 10	9 59	1 35	20 12	1 36	23 35	0 31	23 6	0 30	19 38	17 0	12 1	12 19	14 23			n.a.
S 5	15 2	17 11	4 57	17 44	0 24	20 8	0 34	24 3	1 10	9 59	1 35	20 12	1 36	23 35	0 31	23 6	0 30	19 38	17 0	12 4	12 20	14 25			n.a.
M 6	15 20	19 2	4 33	17 22	0 41	20 28	0 36	24 8	1 10	9 59	1 35	20 11	1 36	23 34	0 31	23 6	0 30	19 38	17 0	12 7	12 21	14 27			n.a.
T 7	15 38	19 35	3 51	16 59	0 58	20 47	0 39	24 12	1 10	9 59	1 34	20 10	1 36	23 34	0 31	23 6	0 30	19 37	17 1	12 9	12 22	14 28			n.a.
W 8	15 56	18 51	2 56	16 35	1 15	21 5	0 41	24 15	1 10	9 59	1 34	20 10	1 36	23 34	0 31	23 6	0 30	19 37	17 1	12 11	12 23	14 30			n.a.
T 9	16 13	17 2	1 53	16 10	1 32	21 23	0 43	24 19	1 10	9 58	1 34	20 9	1 36	23 34	0 31	23 6	0 30	19 37	17 1	12 11	12 25	14 31			n.a.
F 10	16 30	14 20	0 45	15 45	1 49	21 40	0 46	24 23	1 10	9 58	1 34	20 8	1 36	23 34	0 31	23 6	0 30	19 37	17 1	12 11	12 26	14 33			n.a.
S 11	16 47	10 59	0n23	15 20	2 5	21 56	0 48	24 26	1 10	9 58	1 33	20 7	1 36	23 33	0 31	23 6	0 30	19 37	17 2	12 11	12 27	14 34			n.a.
S 12	17 4	7 13	1 29	14 56	2 21	22 12	0 50	24 29	1 10	9 57	1 33	20 6	1 36	23 33	0 30	23 6	0 30	19 37	17 2	12 11	12 28	14 36			n.a.
M13	17 20	3 13	2 28	14 32	2 36	22 27	0 52	24 32	1 11	9 57	1 33	20 5	1 35	23 33	0 30	23 6	0 30	19 37	17 2	12 12	12 29	14 37			n.a.
T 14	17 36	0s52	3 21	14 9	2 50	22 42	0 55	24 35	1 11	9 56	1 33	20 5	1 35	23 32	0 30	23 6	0 30	19 37	17 3	12 14	12 30	14 39			n.a.
W15	17 52	4 52	4 3	13 47	3 3	22 56	0 57	24 37	1 11	9 56	1 32	20 4	1 35	23 32	0 30	23 6	0 30	19 37	17 3	12 17	12 31	14 40			n.a.
T 16	18 7	8 39	4 34	13 26	3 15	23 10	0 59	24 40	1 11	9 55	1 32	20 3	1 35	23 32	0 30	23 6	0 30	19 37	17 3	12 21	12 32	14 42			n.a.
F 17	18 22	12 4	4 53	13 8	3 26	23 22	1 1	24 42	1 11	9 54	1 32	20 2	1 35	23 32	0 30	23 6	0 30	19 37	17 3	12 26	12 33	14 43			n.a.
S 18	18 37	15 0	5 0	12 51	3 36	23 34	1 3	24 44	1 11	9 53	1 32	20 1	1 35	23 31	0 30	23 6	0 30	19 37	17 4	12 30	12 35	14 45			n.a.
S 19	18 52	17 18	4 53	12 36	3 45	23 46	1 5	24 46	1 11	9 52	1 31	20 0	1 35	23 31	0 30	23 6	0 30	19 37	17 4	12 35	12 36	14 46			n.a.
M20	19 6	18 53	4 33	12 23	3 52	23 57	1 7	24 47	1 11	9 51	1 31	19 59	1 35	23 31	0 30	23 6	0 30	19 37	17 4	12 39	12 37	14 48			n.a.
T 21	19 20	19 38	4 2	12 13	3 58	24 7	1 9	24 49	1 11	9 50	1 31	19 58	1 35	23 31	0 30	23 6	0 30	19 37	17 5	12 43	12 38	14 49			n.a.
W22	19 34	19 31	3 19	12 5	4 2	24 16	1 11	24 50	1 11	9 49	1 30	19 56	1 35	23 30	0 30	23 6	0 30	19 37	17 5	12 45	12 39	14 51			n.a.
T 23	19 47	18 29	2 27	12 0	4 5	24 25	1 13	24 51	1 11	9 48	1 30	19 55	1 35	23 30	0 30	23 7	0 30	19 37	17 5	12 47	12 40	14 52			n.a.
F 24	20 0	16 33	1 27	11 57	4 7	24 32	1 15	24 52	1 11	9 47	1 30	19 54	1 34	23 30	0 30	23 7	0 30	19 37	17 6	12 48	12 41	14 54			n.a.
S 25	20 13	13 48	0 21	11 57	4 8	24 40	1 16	24 53	1 11	9 46	1 30	19 53	1 34	23 29	0 30	23 7	0 30	19 37	17 6	12 48	12 42	14 55			n.a.
S 26	20 25	10 17	0s48	11 59	4 8	24 46	1 18	24 54	1 11	9 44	1 29	19 52	1 34	23 29	0 30	23 7	0 30	19 37	17 6	12 48	12 43	14 57			n.a.
M27	20 37	6 9	1 56	12 4	4 6	24 52	1 20	24 54	1 12	9 43	1 29	19 51	1 34	23 29	0 30	23 7	0 30	19 37	17 7	12 48	12 44	14 58			n.a.
T 28	20 49	1 34	2 59	12 12	4 3	24 57	1 21	24 54	1 12	9 41	1 29	19 50	1 34	23 28	0 30	23 7	0 30	19 37	17 7	12 49	12 46	15 0			n.a.
W29	21 0	3n15	3 54	12 21	3 59	25 1	1 23	24 54	1 12	9 40	1 29	19 48	1 34	23 28	0 30	23 7	0 30	19 37	17 7	12 51	12 47	15 1			n.a.
T 30	21 11	8 2	4 35	12 33	3 55	25 5	1 24	24 54	1 12	9 38	1 28	19 47	1 34	23 28	0 30	23 7	0 30	19 37	17 8	12 53	12 48	15 3			n.a.
F 31	21n22	12n24	4s57	12n48	3s49	25n 8	1n26	24n54	1n12	9n37	1n28	19n46	1n34	23n27	0n30	23s 7	0n30	19s37	17s 8	12n56	12n49	15s 4			n.a.

Julian Day Number = 1669312.5, Delta T = 03h21m26s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'11, Lahiri = - 5°55'11 Julian Calendar 1 May 143 BCE == Greg. Calendar 28 Apr. 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

JUNE 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 23 34	5♊54'01	2♊27	15♉19	29♊24	2♋18	9♍ 9	8♌55	14♋ 9	5°R 2	20♓ 7	25°R59	26♌29	28♏46	n.a.	S 1
S 2	16 27 30	6°51'09	17°44	15°59	0♋36	2°56	9°13	9° 0	14°12	5♑ 1	20° 7	25♌49	26°25	28°53	n.a.	S 2
M 3	16 31 27	7°48'16	2♋49	16°43	1°49	3°33	9°17	9° 4	14°15	4°59	20° 8	25°40	26°22	29° 0	n.a.	M 3
T 4	16 35 23	8°45'24	17°34	17°32	3° 2	4°11	9°22	9° 9	14°18	4°58	20° 8	25°34	26°19	29° 7	n.a.	T 4
W 5	16 39 20	9°42'32	1♌51	18°25	4°15	4°49	9°26	9°14	14°22	4°57	20° 9	25°29	26°16	29°13	n.a.	W 5
T 6	16 43 17	10°39'40	15°41	19°23	5°28	5°26	9°31	9°19	14°25	4°55	20° 9	25°28	26°13	29°20	n.a.	T 6
F 7	16 47 13	11°36'47	29° 1	20°25	6°41	6° 4	9°36	9°24	14°28	4°54	20° 9	25°D27	26° 9	29°27	n.a.	F 7
S 8	16 51 10	12°33'54	11♍57	21°31	7°53	6°42	9°41	9°29	14°31	4°52	20°10	25°R28	26° 6	29°34	n.a.	S 8
S 9	16 55 6	13°31'01	24°32	22°42	9° 6	7°19	9°46	9°34	14°35	4°51	20°10	25°27	26° 3	29°40	n.a.	S 9
M10	16 59 3	14°28'08	6♎50	23°57	10°19	7°57	9°51	9°40	14°38	4°49	20°10	25°25	26° 0	29°47	n.a.	M10
T 11	17 2 59	15°25'16	18°56	25°16	11°31	8°35	9°57	9°45	14°41	4°48	20°11	25°21	25°57	29°54	n.a.	T 11
W12	17 6 56	16°22'23	0♏55	26°39	12°44	9°12	10° 2	9°50	14°45	4°46	20°11	25°13	25°54	0♐ 0	n.a.	W12
T 13	17 10 52	17°19'31	12°49	28° 6	13°57	9°50	10° 8	9°56	14°48	4°45	20°11	25° 4	25°50	0° 7	n.a.	T 13
F 14	17 14 49	18°16'38	24°41	29°37	15° 9	10°28	10°14	10° 1	14°51	4°43	20°11	24°53	25°47	0°14	n.a.	F 14
S 15	17 18 46	19°13'46	6♐34	1♑12	16°22	11° 5	10°20	10° 7	14°55	4°42	20°12	24°41	25°44	0°21	n.a.	S 15
S 16	17 22 42	20°10'55	18°29	2°51	17°34	11°43	10°26	10°13	14°58	4°40	20°12	24°29	25°41	0°27	n.a.	S 16
M17	17 26 39	21° 8'04	0♑28	4°33	18°47	12°21	10°32	10°18	15° 2	4°38	20°12	24°19	25°38	0°34	n.a.	M17
T 18	17 30 35	22° 5'14	12°31	6°19	19°59	12°58	10°39	10°24	15° 5	4°37	20°12	24°10	25°35	0°41	n.a.	T 18
W19	17 34 32	23° 2'24	24°42	8° 7	21°12	13°36	10°45	10°30	15° 9	4°35	20°12	24° 4	25°31	0°47	n.a.	W19
T 20	17 38 28	23°59'35	7♒ 1	9°59	22°24	14°14	10°52	10°36	15°12	4°34	20°12	24° 0	25°28	0°54	n.a.	T 20
F 21	17 42 25	24°56'47	19°32	11°54	23°37	14°52	10°59	10°42	15°16	4°32	20°12	23°D59	25°25	1° 1	n.a.	F 21
S 22	17 46 21	25°53'59	2♓16	13°51	24°49	15°30	11° 6	10°48	15°19	4°31	20°12	23°59	25°22	1° 8	n.a.	S 22
S 23	17 50 18	26°51'13	15°18	15°51	26° 2	16° 7	11°13	10°54	15°23	4°29	20°12	23°59	25°19	1°14	n.a.	S 23
M24	17 54 15	27°48'27	28°41	17°52	27°14	16°45	11°20	11° 0	15°26	4°27	20°R13	24°R 0	25°15	1°21	n.a.	M24
T 25	17 58 11	28°45'43	12♈27	19°55	28°26	17°23	11°28	11° 6	15°30	4°26	20°12	23°59	25°12	1°28	n.a.	T 25
W26	18 2 8	29°43'00	26°37	21°59	29°38	18° 1	11°35	11°12	15°33	4°24	20°12	23°56	25° 9	1°35	n.a.	W26
T 27	18 6 4	0♋40'17	11♉10	24° 5	0♌51	18°39	11°43	11°18	15°37	4°22	20°12	23°52	25° 6	1°41	n.a.	T 27
F 28	18 10 1	1°37'36	26° 1	26°11	2° 3	19°17	11°51	11°25	15°41	4°21	20°12	23°45	25° 3	1°48	n.a.	F 28
S 29	18 13 57	2°34'56	11♊ 5	28°17	3°15	19°54	11°58	11°31	15°44	4°19	20°12	23°38	25° 0	1°55	n.a.	S 29
S 30	18 17 54	3♋32'18	26♊12	0♋23	4♌27	20♋32	12♍ 6	11♌37	15♋48	4♑18	20♓12	23♌30	24♌56	2♐ 1	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n32	16n 0	4s59	13n 4	3s43	25n10	1n27	24n53	1n12	9n35	1n28	19n44	1n34	23n27	0n30	23s 7	0n30	19s37	17s 8	13n 0	12n50	15s 6		n.a.
S 2	21 42	18 30	4 39	13 22	3 35	25 11	1 29	24 52	1 12	9 33	1 28	19 43	1 34	23 27	0 30	23 7	0 30	19 37	17 9	13 3	12 51	15 7		n.a.
M 3	21 51	19 40	4 1	13 43	3 27	25 12	1 30	24 51	1 12	9 31	1 27	19 42	1 34	23 26	0 30	23 7	0 30	19 38	17 9	13 6	12 52	15 9		n.a.
T 4	22 1	19 28	3 6	14 5	3 18	25 12	1 31	24 50	1 12	9 29	1 27	19 40	1 34	23 26	0 30	23 7	0 30	19 38	17 9	13 9	12 53	15 10		n.a.
W 5	22 9	18 0	2 2	14 29	3 9	25 11	1 32	24 49	1 12	9 27	1 27	19 39	1 34	23 26	0 30	23 7	0 30	19 38	17 10	13 10	12 54	15 12		n.a.
T 6	22 18	15 30	0 52	14 54	2 59	25 9	1 33	24 48	1 12	9 25	1 26	19 38	1 34	23 25	0 30	23 7	0 30	19 38	17 10	13 11	12 55	15 13		n.a.
F 7	22 26	12 14	0n19	15 21	2 49	25 7	1 34	24 46	1 12	9 23	1 26	19 36	1 33	23 25	0 30	23 7	0 30	19 38	17 11	13 11	12 56	15 15		n.a.
S 8	22 34	8 29	1 26	15 49	2 38	25 3	1 35	24 44	1 12	9 21	1 26	19 35	1 33	23 25	0 30	23 7	0 30	19 38	17 11	13 11	12 58	15 16		n.a.
S 9	22 41	4 27	2 28	16 18	2 26	25 0	1 36	24 42	1 12	9 19	1 26	19 33	1 33	23 24	0 30	23 7	0 30	19 39	17 11	13 11	12 59	15 17		n.a.
M10	22 48	0 20	3 21	16 48	2 14	24 55	1 37	24 40	1 12	9 17	1 25	19 32	1 33	23 24	0 30	23 8	0 30	19 39	17 12	13 12	13 0	15 19		n.a.
T 11	22 54	3s44	4 4	17 19	2 2	24 50	1 38	24 37	1 12	9 14	1 25	19 30	1 33	23 23	0 30	23 8	0 30	19 39	17 12	13 13	13 1	15 20		n.a.
W12	23 0	7 37	4 36	17 51	1 50	24 44	1 38	24 35	1 12	9 12	1 25	19 29	1 33	23 23	0 30	23 8	0 30	19 39	17 12	13 16	13 2	15 22		n.a.
T 13	23 6	11 10	4 55	18 23	1 37	24 37	1 39	24 32	1 12	9 10	1 25	19 27	1 33	23 23	0 30	23 8	0 30	19 39	17 13	13 19	13 3	15 23		n.a.
F 14	23 11	14 16	5 2	18 55	1 25	24 29	1 40	24 29	1 12	9 7	1 25	19 26	1 33	23 22	0 30	23 8	0 30	19 40	17 13	13 22	13 4	15 25		n.a.
S 15	23 16	16 47	4 56	19 28	1 12	24 21	1 40	24 26	1 12	9 5	1 24	19 24	1 33	23 22	0 30	23 8	0 30	19 40	17 13	13 27	13 5	15 26		n.a.
S 16	23 21	18 37	4 37	20 0	0 59	24 12	1 40	24 23	1 12	9 2	1 24	19 22	1 33	23 21	0 30	23 8	0 30	19 40	17 14	13 30	13 6	15 28		n.a.
M17	23 25	19 38	4 5	20 32	0 46	24 2	1 41	24 19	1 12	8 59	1 24	19 21	1 33	23 21	0 30	23 8	0 30	19 40	17 14	13 34	13 7	15 29		n.a.
T 18	23 28	19 45	3 22	21 3	0 34	23 52	1 41	24 16	1 12	8 57	1 24	19 19	1 33	23 21	0 30	23 8	0 30	19 41	17 15	13 37	13 8	15 31		n.a.
W19	23 31	18 58	2 30	21 33	0 21	23 41	1 41	24 12	1 12	8 54	1 23	19 18	1 33	23 20	0 30	23 8	0 30	19 41	17 15	13 39	13 9	15 32		n.a.
T 20	23 34	17 17	1 29	22 3	0 9	23 29	1 41	24 8	1 12	8 51	1 23	19 16	1 33	23 20	0 30	23 8	0 30	19 41	17 15	13 40	13 11	15 33		n.a.
F 21	23 37	14 45	0 24	22 31	0n 2	23 17	1 41	24 4	1 12	8 48	1 23	19 14	1 33	23 19	0 30	23 8	0 30	19 42	17 16	13 41	13 12	15 35		n.a.
S 22	23 39	11 28	0s44	22 57	0 14	23 4	1 41	23 59	1 12	8 45	1 23	19 13	1 33	23 19	0 30	23 8	0 30	19 42	17 16	13 41	13 13	15 36		n.a.
S 23	23 40	7 34	1 52	23 22	0 25	22 50	1 41	23 55	1 12	8 42	1 22	19 11	1 33	23 19	0 30	23 8	0 30	19 42	17 16	13 40	13 14	15 38		n.a.
M24	23 41	3 12	2 55	23 44	0 35	22 36	1 41	23 50	1 12	8 39	1 22	19 9	1 33	23 18	0 30	23 8	0 30	19 43	17 17	13 40	13 15	15 39		n.a.
T 25	23 42	1n27	3 50	24 4	0 45	22 21	1 41	23 45	1 12	8 36	1 22	19 7	1 33	23 18	0 30	23 8	0 30	19 43	17 17	13 41	13 16	15 41		n.a.
W26	23 43	6 9	4 33	24 22	0 54	22 5	1 40	23 40	1 12	8 33	1 22	19 6	1 33	23 17	0 30	23 9	0 30	19 43	17 17	13 42	13 17	15 42		n.a.
T 27	23 42	10 37	4 59	24 37	1 3	21 49	1 40	23 35	1 12	8 30	1 22	19 4	1 33	23 17	0 30	23 9	0 30	19 44	17 18	13 43	13 18	15 44		n.a.
F 28	23 42	14 31	5 6	24 50	1 11	21 32	1 39	23 29	1 12	8 27	1 21	19 2	1 33	23 17	0 30	23 9	0 30	19 44	17 18	13 45	13 19	15 45		n.a.
S 29	23 41	17 32	4 52	25 0	1 18	21 15	1 39	23 24	1 11	8 24	1 21	19 0	1 32	23 16	0 30	23 9	0 30	19 44	17 19	13 48	13 20	15 46		n.a.
S 30	23n40	19n21	4s18	25n 7	1n24	20n57	1n38	23n18	1n11	8n20	1n21	18n58	1n32	23n16	0n30	23s 9	0n30	19s45	17s19	13n50	13n21	15s48		n.a.

Julian Day Number = 1669343.5, Delta T = 03h21m25s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'07, Lahiri = - 5°55'07 Julian Calendar 1 June 143 BCE == Greg. Calendar 29 May 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

JULY 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 21 50	4♋29'40	11♋11	2♋29	5♌40	21♋10	12♍15	11♌44	15♋52	4°R16	20°R12	23°R24	24♌53	2♐ 8	n.a.	M 1
T 2	18 25 47	5°27'03	25°54	4°35	6°52	21°48	12°23	11°50	15°55	4♑14	20♓12	23♌19	24°50	2°15	n.a.	T 2
W 3	18 29 44	6°24'27	10♌13	6°40	8° 4	22°26	12°31	11°57	15°59	4°13	20°12	23°16	24°47	2°22	n.a.	W 3
T 4	18 33 40	7°21'51	24° 7	8°44	9°16	23° 4	12°40	12° 3	16° 3	4°11	20°11	23°D16	24°44	2°28	n.a.	T 4
F 5	18 37 37	8°19'17	7♍33	10°48	10°28	23°42	12°48	12°10	16° 6	4° 9	20°11	23°16	24°41	2°35	n.a.	F 5
S 6	18 41 33	9°16'43	20°33	12°50	11°40	24°20	12°57	12°17	16°10	4° 8	20°11	23°18	24°37	2°42	n.a.	S 6
S 7	18 45 30	10°14'10	3♎11	14°51	12°52	24°58	13° 6	12°23	16°14	4° 6	20°11	23°19	24°34	2°49	n.a.	S 7
M 8	18 49 26	11°11'38	15°30	16°50	14° 4	25°36	13°15	12°30	16°17	4° 5	20°10	23°R19	24°31	2°55	n.a.	M 8
T 9	18 53 23	12° 9'07	27°37	18°48	15°15	26°14	13°24	12°37	16°21	4° 3	20°10	23°17	24°28	3° 2	n.a.	T 9
W10	18 57 19	13° 6'37	9♏35	20°45	16°27	26°52	13°33	12°44	16°25	4° 1	20°10	23°14	24°25	3° 9	n.a.	W10
T 11	19 1 16	14° 4'08	21°28	22°41	17°39	27°30	13°42	12°51	16°29	4° 0	20° 9	23°10	24°21	3°15	n.a.	T 11
F 12	19 5 13	15° 1'40	3♐20	24°35	18°51	28° 8	13°51	12°57	16°32	3°58	20° 9	23° 4	24°18	3°22	n.a.	F 12
S 13	19 9 9	15°59'13	15°15	26°27	20° 3	28°46	14° 1	13° 4	16°36	3°57	20° 9	22°57	24°15	3°29	n.a.	S 13
S 14	19 13 6	16°56'48	27°14	28°18	21°14	29°25	14°10	13°11	16°40	3°55	20° 8	22°51	24°12	3°36	n.a.	S 14
M15	19 17 2	17°54'23	9♑21	0♌ 8	22°26	0♌ 3	14°20	13°18	16°43	3°53	20° 8	22°45	24° 9	3°42	n.a.	M15
T 16	19 20 59	18°52'00	21°35	1°56	23°37	0°41	14°30	13°25	16°47	3°52	20° 7	22°40	24° 6	3°49	n.a.	T 16
W17	19 24 55	19°49'39	3♒59	3°42	24°49	1°19	14°39	13°32	16°51	3°50	20° 7	22°37	24° 2	3°56	n.a.	W17
T 18	19 28 52	20°47'18	16°34	5°27	26° 0	1°57	14°49	13°39	16°55	3°49	20° 6	22°D35	23°59	4° 2	n.a.	T 18
F 19	19 32 49	21°45'00	29°20	7°11	27°12	2°35	14°59	13°47	16°58	3°47	20° 6	22°35	23°56	4° 9	n.a.	F 19
S 20	19 36 45	22°42'43	12♓18	8°53	28°23	3°14	15° 9	13°54	17° 2	3°46	20° 5	22°37	23°53	4°16	n.a.	S 20
S 21	19 40 42	23°40'27	25°32	10°34	29°34	3°52	15°20	14° 1	17° 6	3°44	20° 5	22°38	23°50	4°23	n.a.	S 21
M22	19 44 38	24°38'14	9♈ 1	12°13	0♍46	4°30	15°30	14° 8	17° 9	3°43	20° 4	22°39	23°47	4°29	n.a.	M22
T 23	19 48 35	25°36'02	22°47	13°51	1°57	5° 8	15°40	14°15	17°13	3°41	20° 4	22°R40	23°43	4°36	n.a.	T 23
W24	19 52 31	26°33'52	6♉50	15°28	3° 8	5°47	15°51	14°22	17°17	3°40	20° 3	22°40	23°40	4°43	n.a.	W24
T 25	19 56 28	27°31'44	21° 9	17° 3	4°19	6°25	16° 1	14°30	17°20	3°38	20° 2	22°38	23°37	4°50	n.a.	T 25
F 26	20 0 24	28°29'39	5♊41	18°37	5°30	7° 3	16°12	14°37	17°24	3°37	20° 2	22°36	23°34	4°56	n.a.	F 26
S 27	20 4 21	29°27'35	20°22	20°10	6°42	7°42	16°23	14°44	17°28	3°35	20° 1	22°33	23°31	5° 3	n.a.	S 27
S 28	20 8 17	0♌25'33	5♋ 5	21°41	7°53	8°20	16°33	14°52	17°31	3°34	20° 0	22°30	23°27	5°10	n.a.	S 28
M29	20 12 14	1°23'32	19°44	23°10	9° 3	8°58	16°44	14°59	17°35	3°33	20° 0	22°27	23°24	5°16	n.a.	M29
T 30	20 16 11	2°21'34	4♌11	24°39	10°14	9°37	16°55	15° 6	17°39	3°31	19°59	22°26	23°21	5°23	n.a.	T 30
W31	20 20 7	3♌19'37	18♌21	26♌ 6	11♍25	10♌15	17♍ 6	15♌14	17♋42	3♑30	19♓58	22°D25	23♌18	5♐30	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	23n38	19n48	3s27	25n11	1n30	20n38	1n37	23n12	1n11	8n17	1n21	18n56	1n32	23n15	0n30	23s 9	0n30	19s45	17s19	13n52	13n22	15s49			n.a.
T 2	23 36	18 53	2 22	25 12	1 35	20 19	1 36	23 6	1 11	8 14	1 20	18 55	1 32	23 15	0 30	23 9	0 30	19 45	17 20	13 54	13 23	15 51			n.a.
W 3	23 33	16 46	1 10	25 11	1 39	19 59	1 35	22 59	1 11	8 10	1 20	18 53	1 32	23 14	0 30	23 9	0 30	19 46	17 20	13 55	13 25	15 52			n.a.
T 4	23 30	13 42	0n 5	25 7	1 42	19 39	1 34	22 53	1 11	8 7	1 20	18 51	1 32	23 14	0 30	23 9	0 30	19 46	17 20	13 55	13 26	15 53			n.a.
F 5	23 27	10 1	1 17	25 0	1 45	19 19	1 33	22 46	1 11	8 3	1 20	18 49	1 32	23 14	0 30	23 9	0 30	19 47	17 21	13 55	13 27	15 55			n.a.
S 6	23 23	5 58	2 22	24 51	1 47	18 57	1 32	22 40	1 11	8 0	1 20	18 47	1 32	23 13	0 30	23 9	0 30	19 47	17 21	13 54	13 28	15 56			n.a.
S 7	23 19	1 46	3 19	24 39	1 48	18 36	1 31	22 33	1 11	7 56	1 19	18 45	1 32	23 13	0 30	23 9	0 29	19 47	17 21	13 54	13 29	15 58			n.a.
M 8	23 14	2s24	4 5	24 26	1 48	18 13	1 29	22 25	1 11	7 52	1 19	18 43	1 32	23 12	0 30	23 9	0 29	19 48	17 22	13 54	13 30	15 59			n.a.
T 9	23 9	6 24	4 40	24 10	1 48	17 51	1 28	22 18	1 11	7 49	1 19	18 41	1 32	23 12	0 30	23 9	0 29	19 48	17 22	13 55	13 31	16 0			n.a.
W10	23 3	10 5	5 1	23 52	1 48	17 27	1 27	22 11	1 11	7 45	1 19	18 39	1 32	23 11	0 30	23 9	0 29	19 49	17 22	13 56	13 32	16 2			n.a.
T 11	22 57	13 21	5 10	23 32	1 46	17 4	1 25	22 3	1 11	7 41	1 19	18 37	1 32	23 11	0 30	23 10	0 29	19 49	17 23	13 57	13 33	16 3			n.a.
F 12	22 51	16 4	5 5	23 10	1 45	16 40	1 23	21 55	1 11	7 37	1 19	18 35	1 32	23 10	0 30	23 10	0 29	19 50	17 23	13 59	13 34	16 5			n.a.
S 13	22 44	18 8	4 47	22 46	1 42	16 15	1 22	21 47	1 11	7 34	1 18	18 33	1 32	23 10	0 30	23 10	0 29	19 50	17 23	14 1	13 35	16 6			n.a.
S 14	22 37	19 25	4 16	22 21	1 39	15 50	1 20	21 39	1 10	7 30	1 18	18 31	1 32	23 9	0 30	23 10	0 29	19 51	17 24	14 3	13 36	16 7			n.a.
M15	22 30	19 49	3 34	21 55	1 36	15 25	1 18	21 31	1 10	7 26	1 18	18 29	1 32	23 9	0 30	23 10	0 29	19 51	17 24	14 5	13 37	16 9			n.a.
T 16	22 22	19 18	2 41	21 27	1 32	14 59	1 16	21 23	1 10	7 22	1 18	18 27	1 32	23 9	0 30	23 10	0 29	19 52	17 24	14 7	13 38	16 10			n.a.
W17	22 14	17 52	1 40	20 58	1 28	14 33	1 14	21 14	1 10	7 18	1 18	18 25	1 32	23 8	0 30	23 10	0 29	19 52	17 25	14 8	13 39	16 12			n.a.
T 18	22 5	15 32	0 33	20 28	1 23	14 7	1 12	21 5	1 10	7 14	1 17	18 23	1 32	23 8	0 30	23 10	0 29	19 53	17 25	14 8	13 41	16 13			n.a.
F 19	21 56	12 25	0s37	19 57	1 18	13 40	1 9	20 56	1 10	7 10	1 17	18 21	1 32	23 7	0 30	23 10	0 29	19 53	17 25	14 8	13 42	16 14			n.a.
S 20	21 46	8 39	1 46	19 25	1 13	13 13	1 7	20 47	1 10	7 6	1 17	18 19	1 32	23 7	0 30	23 10	0 29	19 54	17 26	14 8	13 43	16 16			n.a.
S 21	21 37	4 24	2 51	18 52	1 7	12 45	1 5	20 38	1 10	7 2	1 17	18 17	1 32	23 6	0 30	23 10	0 29	19 54	17 26	14 7	13 44	16 17			n.a.
M22	21 26	0n 8	3 47	18 18	1 1	12 18	1 2	20 29	1 10	6 57	1 17	18 15	1 32	23 6	0 30	23 10	0 29	19 55	17 26	14 7	13 45	16 18			n.a.
T 23	21 16	4 45	4 32	17 44	0 55	11 50	1 0	20 19	1 10	6 53	1 17	18 13	1 32	23 5	0 30	23 10	0 29	19 55	17 27	14 7	13 46	16 20			n.a.
W24	21 5	9 11	5 2	17 9	0 49	11 21	0 57	20 10	1 9	6 49	1 16	18 11	1 32	23 5	0 30	23 10	0 29	19 56	17 27	14 7	13 47	16 21			n.a.
T 25	20 53	13 12	5 14	16 34	0 42	10 53	0 54	20 0	1 9	6 45	1 16	18 8	1 32	23 4	0 30	23 10	0 29	19 56	17 27	14 7	13 48	16 23			n.a.
F 26	20 42	16 29	5 6	15 58	0 35	10 24	0 52	19 50	1 9	6 40	1 16	18 6	1 32	23 4	0 30	23 10	0 29	19 57	17 27	14 8	13 49	16 24			n.a.
S 27	20 30	18 44	4 38	15 22	0 27	9 55	0 49	19 40	1 9	6 36	1 16	18 4	1 32	23 3	0 30	23 11	0 29	19 57	17 28	14 9	13 50	16 25			n.a.
S 28	20 17	19 45	3 52	14 45	0 20	9 25	0 46	19 30	1 9	6 32	1 16	18 2	1 32	23 3	0 30	23 11	0 29	19 58	17 28	14 10	13 51	16 27			n.a.
M29	20 4	19 26	2 50	14 8	0 12	8 56	0 43	19 19	1 9	6 27	1 16	18 0	1 33	23 2	0 30	23 11	0 29	19 58	17 28	14 11	13 52	16 28			n.a.
T 30	19 51	17 50	1 39	13 31	0 4	8 26	0 40	19 9	1 9	6 23	1 16	17 58	1 33	23 2	0 30	23 11	0 29	19 59	17 29	14 12	13 53	16 29			n.a.
W31	19n38	15n 9	0s22	12n54	0s 4	7n56	0n37	18n58	1n 9	6n18	1n15	17n55	1n33	23n 2	0n30	23s11	0n29	19s59	17s29	14n12	13n54	16s31			n.a.

Julian Day Number = 1669373.5, Delta T = 03h21m24s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°02'03, Lahiri = - 5°55'03 Julian Calendar 1 July 143 BCE == Greg. Calendar 28 June 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

AUGUST 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 24 4	4♌17'42	2♍10	27♌31	12♍36	10♌54	17♍17	15♌21	17♋46	3°R29	19°R57	22♌25	23♌15	5♐37	n.a.	T 1
F 2	20 28 0	5°15'48	15°35	28°55	13°47	11°32	17°28	15°28	17°49	3♑27	19♓57	22°26	23°12	5°43	n.a.	F 2
S 3	20 31 57	6°13'56	28°37	0♍18	14°57	12°11	17°40	15°36	17°53	3°26	19°56	22°27	23° 8	5°50	n.a.	S 3
S 4	20 35 53	7°12'06	11♎18	1°39	16° 8	12°49	17°51	15°43	17°57	3°25	19°55	22°29	23° 5	5°57	n.a.	S 4
M 5	20 39 50	8°10'17	23°41	2°58	17°19	13°28	18° 2	15°51	18° 0	3°23	19°54	22°29	23° 2	6° 3	n.a.	M 5
T 6	20 43 46	9° 8'30	5♏49	4°16	18°29	14° 6	18°14	15°58	18° 4	3°22	19°54	22°R30	22°59	6°10	n.a.	T 6
W 7	20 47 43	10° 6'44	17°48	5°33	19°40	14°45	18°25	16° 6	18° 7	3°21	19°53	22°30	22°56	6°17	n.a.	W 7
T 8	20 51 40	11° 5'00	29°42	6°47	20°50	15°24	18°37	16°13	18°11	3°20	19°52	22°29	22°52	6°24	n.a.	T 8
F 9	20 55 36	12° 3'18	11♐35	8° 0	22° 0	16° 2	18°48	16°21	18°14	3°18	19°51	22°28	22°49	6°30	n.a.	F 9
S 10	20 59 33	13° 1'37	23°32	9°11	23°10	16°41	19° 0	16°28	18°18	3°17	19°50	22°27	22°46	6°37	n.a.	S 10
S 11	21 3 29	13°59'58	5♑35	10°20	24°20	17°20	19°12	16°35	18°21	3°16	19°49	22°26	22°43	6°44	n.a.	S 11
M12	21 7 26	14°58'21	17°49	11°27	25°31	17°58	19°23	16°43	18°25	3°15	19°48	22°25	22°40	6°50	n.a.	M12
T 13	21 11 22	15°56'46	0♒15	12°32	26°40	18°37	19°35	16°50	18°28	3°14	19°47	22°24	22°37	6°57	n.a.	T 13
W14	21 15 19	16°55'12	12°54	13°34	27°50	19°16	19°47	16°58	18°31	3°13	19°46	22°23	22°33	7° 4	n.a.	W14
T 15	21 19 15	17°53'41	25°48	14°34	29° 0	19°55	19°59	17° 5	18°35	3°12	19°45	22°D23	22°30	7°11	n.a.	T 15
F 16	21 23 12	18°52'12	8♓56	15°32	0♎10	20°33	20°11	17°13	18°38	3°11	19°44	22°24	22°27	7°17	n.a.	F 16
S 17	21 27 9	19°50'44	22°18	16°26	1°20	21°12	20°23	17°20	18°41	3°10	19°43	22°24	22°24	7°24	n.a.	S 17
S 18	21 31 5	20°49'19	5♈53	17°18	2°29	21°51	20°35	17°28	18°45	3° 9	19°43	22°24	22°21	7°31	n.a.	S 18
M19	21 35 2	21°47'56	19°40	18° 6	3°39	22°30	20°48	17°35	18°48	3° 8	19°42	22°24	22°18	7°38	n.a.	M19
T 20	21 38 58	22°46'35	3♉36	18°51	4°48	23° 9	21° 0	17°43	18°51	3° 7	19°40	22°R24	22°14	7°44	n.a.	T 20
W21	21 42 55	23°45'17	17°42	19°33	5°57	23°48	21°12	17°50	18°54	3° 6	19°39	22°D24	22°11	7°51	n.a.	W21
T 22	21 46 51	24°44'01	1♊54	20°10	7° 7	24°27	21°24	17°58	18°58	3° 5	19°38	22°24	22° 8	7°58	n.a.	T 22
F 23	21 50 48	25°42'48	16°10	20°43	8°16	25° 6	21°37	18° 5	19° 1	3° 4	19°37	22°24	22° 5	8° 4	n.a.	F 23
S 24	21 54 44	26°41'37	0♋27	21°11	9°25	25°45	21°49	18°12	19° 4	3° 4	19°36	22°25	22° 2	8°11	n.a.	S 24
S 25	21 58 41	27°40'29	14°44	21°35	10°34	26°24	22° 2	18°20	19° 7	3° 3	19°35	22°25	21°58	8°18	n.a.	S 25
M26	22 2 38	28°39'22	28°54	21°53	11°43	27° 3	22°14	18°27	19°10	3° 2	19°34	22°26	21°55	8°25	n.a.	M26
T 27	22 6 34	29°38'18	12♌56	22° 5	12°51	27°42	22°27	18°35	19°13	3° 1	19°33	22°26	21°52	8°31	n.a.	T 27
W28	22 10 31	0♍37'17	26°45	22°R11	14° 0	28°21	22°39	18°42	19°16	3° 1	19°32	22°R26	21°49	8°38	n.a.	W28
T 29	22 14 27	1°36'17	10♍19	22°10	15° 9	29° 0	22°52	18°49	19°19	3° 0	19°31	22°26	21°46	8°45	n.a.	T 29
F 30	22 18 24	2°35'19	23°35	22° 2	16°17	29°39	23° 4	18°57	19°22	2°59	19°30	22°25	21°43	8°51	n.a.	F 30
S 31	22 22 20	3♍34'23	6♎32	21♍47	17♎25	0♍19	23♍17	19♌ 4	19♋25	2♑59	19♓29	22♌23	21♌39	8♐58	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	19n24	11n39	0n54	12n17	0s12	7n26	0n34	18n47	1n 8	6n14	1n15	17n53	1n33	23n 1	0n30	23s11	0n29	20s 0	17s29	14n12	13n55	16s32			n.a.
F 2	19 10	7 39	2 4	11 40	0 20	6 55	0 31	18 37	1 8	6 9	1 15	17 51	1 33	23 1	0 30	23 11	0 29	20 0	17 29	14 11	13 56	16 33			n.a.
S 3	18 56	3 24	3 7	11 3	0 29	6 25	0 27	18 26	1 8	6 5	1 15	17 49	1 33	23 0	0 30	23 11	0 29	20 1	17 30	14 11	13 57	16 35			n.a.
S 4	18 41	0s52	3 58	10 26	0 37	5 54	0 24	18 14	1 8	6 0	1 15	17 47	1 33	23 0	0 30	23 11	0 29	20 1	17 30	14 11	13 59	16 36			n.a.
M 5	18 26	5 0	4 37	9 49	0 46	5 23	0 21	18 3	1 8	5 56	1 15	17 44	1 33	22 59	0 30	23 11	0 29	20 2	17 30	14 10	14 0	16 37			n.a.
T 6	18 10	8 51	5 3	9 12	0 55	4 52	0 17	17 52	1 8	5 51	1 15	17 42	1 33	22 59	0 30	23 11	0 29	20 3	17 30	14 10	14 1	16 39			n.a.
W 7	17 55	12 17	5 15	8 36	1 4	4 21	0 14	17 40	1 8	5 46	1 14	17 40	1 33	22 58	0 31	23 11	0 29	20 3	17 31	14 10	14 2	16 40			n.a.
T 8	17 39	15 12	5 14	8 0	1 13	3 50	0 10	17 28	1 7	5 42	1 14	17 38	1 33	22 58	0 31	23 11	0 29	20 4	17 31	14 10	14 3	16 41			n.a.
F 9	17 22	17 29	4 59	7 24	1 22	3 18	0 7	17 17	1 7	5 37	1 14	17 36	1 33	22 57	0 31	23 11	0 29	20 4	17 31	14 11	14 4	16 43			n.a.
S 10	17 6	19 2	4 31	6 49	1 31	2 47	0 3	17 5	1 7	5 32	1 14	17 33	1 33	22 57	0 31	23 11	0 29	20 5	17 31	14 11	14 5	16 44			n.a.
S 11	16 49	19 45	3 51	6 15	1 40	2 16	0s 1	16 53	1 7	5 27	1 14	17 31	1 33	22 56	0 31	23 11	0 29	20 5	17 32	14 12	14 6	16 45			n.a.
M12	16 32	19 32	3 0	5 41	1 48	1 44	0 5	16 40	1 7	5 23	1 14	17 29	1 33	22 56	0 31	23 11	0 29	20 6	17 32	14 12	14 7	16 47			n.a.
T 13	16 14	18 23	2 0	5 8	1 57	1 13	0 8	16 28	1 7	5 18	1 14	17 27	1 33	22 56	0 31	23 11	0 29	20 7	17 32	14 12	14 8	16 48			n.a.
W14	15 56	16 18	0 52	4 36	2 6	0 41	0 12	16 16	1 6	5 13	1 14	17 24	1 33	22 55	0 31	23 12	0 29	20 7	17 32	14 12	14 9	16 49			n.a.
T 15	15 38	13 22	0s19	4 4	2 15	0 9	0 16	16 3	1 6	5 8	1 14	17 22	1 33	22 55	0 31	23 12	0 29	20 8	17 32	14 12	14 10	16 51			n.a.
F 16	15 20	9 42	1 31	3 34	2 24	0s22	0 20	15 51	1 6	5 3	1 13	17 20	1 33	22 54	0 31	23 12	0 29	20 8	17 33	14 12	14 11	16 52			n.a.
S 17	15 2	5 30	2 38	3 5	2 32	0 54	0 24	15 38	1 6	4 58	1 13	17 18	1 33	22 54	0 31	23 12	0 29	20 9	17 33	14 12	14 12	16 53			n.a.
S 18	14 43	0 58	3 39	2 37	2 40	1 26	0 28	15 25	1 6	4 53	1 13	17 15	1 34	22 53	0 31	23 12	0 29	20 9	17 33	14 12	14 13	16 55			n.a.
M19	14 24	3n40	4 27	2 10	2 48	1 57	0 32	15 12	1 5	4 48	1 13	17 13	1 34	22 53	0 31	23 12	0 29	20 10	17 33	14 12	14 14	16 56			n.a.
T 20	14 5	8 9	5 0	1 45	2 56	2 29	0 36	14 59	1 5	4 43	1 13	17 11	1 34	22 52	0 31	23 12	0 29	20 10	17 33	14 12	14 15	16 57			n.a.
W21	13 45	12 15	5 16	1 22	3 4	3 0	0 40	14 46	1 5	4 38	1 13	17 9	1 34	22 52	0 31	23 12	0 29	20 11	17 33	14 12	14 16	16 59			n.a.
T 22	13 25	15 40	5 13	1 1	3 11	3 32	0 44	14 32	1 5	4 33	1 13	17 6	1 34	22 52	0 31	23 12	0 29	20 12	17 34	14 12	14 17	17 0			n.a.
F 23	13 6	18 10	4 50	0 42	3 18	4 3	0 49	14 19	1 5	4 28	1 13	17 4	1 34	22 51	0 31	23 12	0 29	20 12	17 34	14 12	14 18	17 1			n.a.
S 24	12 45	19 33	4 10	0 25	3 24	4 35	0 53	14 5	1 4	4 23	1 13	17 2	1 34	22 51	0 31	23 12	0 29	20 13	17 34	14 12	14 19	17 2			n.a.
S 25	12 25	19 40	3 14	0 10	3 30	5 6	0 57	13 52	1 4	4 18	1 13	17 0	1 34	22 50	0 31	23 12	0 28	20 13	17 34	14 12	14 21	17 4			n.a.
M26	12 4	18 33	2 7	0s 2	3 35	5 37	1 1	13 38	1 4	4 13	1 12	16 57	1 34	22 50	0 31	23 12	0 28	20 14	17 34	14 12	14 22	17 5			n.a.
T 27	11 44	16 17	0 52	0 10	3 39	6 8	1 5	13 24	1 4	4 8	1 12	16 55	1 34	22 50	0 31	23 12	0 28	20 14	17 34	14 12	14 23	17 6			n.a.
W28	11 23	13 7	0n24	0 16	3 43	6 39	1 10	13 10	1 4	4 3	1 12	16 53	1 34	22 49	0 31	23 12	0 28	20 15	17 34	14 12	14 24	17 8			n.a.
T 29	11 1	9 17	1 37	0 18	3 45	7 10	1 14	12 56	1 3	3 58	1 12	16 51	1 34	22 49	0 31	23 12	0 28	20 15	17 35	14 12	14 25	17 9			n.a.
F 30	10 40	5 5	2 44	0 16	3 46	7 40	1 18	12 42	1 3	3 53	1 12	16 49	1 35	22 48	0 31	23 12	0 28	20 16	17 35	14 12	14 26	17 10			n.a.
S 31	10n19	0n45	3n41	0s10	3s47	8s11	1s22	12n28	1n 3	3n48	1n12	16n46	1n35	22n48	0n31	23s12	0n28	20s17	17s35	14n12	14n27	17s11			n.a.

Julian Day Number = 1669404.5, Delta T = 03h21m23s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'59, Lahiri = - 5°54'58 Julian Calendar 1 Aug. 143 BCE == Greg. Calendar 29 July 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

SEPTEMBER 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 26 17	4♍33'30	19♎11	21°R25	18♎34	0♍58	23♍30	19♌11	19♋28	2°R58	19°R28	22°R22	21♌36	9♐ 5	n.a.	S 1
M 2	22 30 13	5°32'38	1♏34	20♍55	19°42	1°37	23°43	19°19	19°31	2♑58	19♓27	22♌20	21°33	9°12	n.a.	M 2
T 3	22 34 10	6°31'48	13°43	20°17	20°50	2°16	23°55	19°26	19°34	2°57	19°25	22°18	21°30	9°18	n.a.	T 3
W 4	22 38 6	7°31'00	25°43	19°31	21°57	2°56	24° 8	19°33	19°36	2°57	19°24	22°17	21°27	9°25	n.a.	W 4
T 5	22 42 3	8°30'14	7♐36	18°39	23° 5	3°35	24°21	19°40	19°39	2°56	19°23	22°D17	21°24	9°32	n.a.	T 5
F 6	22 46 0	9°29'30	19°29	17°40	24°13	4°14	24°34	19°48	19°42	2°56	19°22	22°17	21°20	9°38	n.a.	F 6
S 7	22 49 56	10°28'48	1♑26	16°36	25°20	4°54	24°47	19°55	19°45	2°55	19°21	22°18	21°17	9°45	n.a.	S 7
S 8	22 53 53	11°28'08	13°30	15°28	26°28	5°33	25° 0	20° 2	19°47	2°55	19°20	22°20	21°14	9°52	n.a.	S 8
M 9	22 57 49	12°27'29	25°48	14°17	27°35	6°13	25°13	20° 9	19°50	2°55	19°19	22°21	21°11	9°59	n.a.	M 9
T 10	23 1 46	13°26'53	8♒21	13° 6	28°42	6°52	25°26	20°16	19°52	2°54	19°17	22°22	21° 8	10° 5	n.a.	T 10
W11	23 5 42	14°26'18	21°13	11°56	29°49	7°32	25°39	20°23	19°55	2°54	19°16	22°R23	21° 4	10°12	n.a.	W11
T 12	23 9 39	15°25'46	4♓25	10°50	0♏55	8°11	25°52	20°30	19°57	2°54	19°15	22°23	21° 1	10°19	n.a.	T 12
F 13	23 13 35	16°25'15	17°57	9°48	2° 2	8°51	26° 5	20°37	20° 0	2°54	19°14	22°21	20°58	10°25	n.a.	F 13
S 14	23 17 32	17°24'47	1♈46	8°54	3° 8	9°30	26°18	20°44	20° 2	2°54	19°13	22°18	20°55	10°32	n.a.	S 14
S 15	23 21 28	18°24'21	15°49	8° 8	4°14	10°10	26°31	20°51	20° 5	2°53	19°12	22°14	20°52	10°39	n.a.	S 15
M16	23 25 25	19°23'57	0♉ 3	7°32	5°20	10°50	26°44	20°58	20° 7	2°53	19°10	22°10	20°49	10°46	n.a.	M16
T 17	23 29 22	20°23'36	14°21	7° 6	6°26	11°29	26°57	21° 5	20° 9	2°53	19° 9	22° 7	20°45	10°52	n.a.	T 17
W18	23 33 18	21°23'16	28°41	6°52	7°32	12° 9	27°10	21°12	20°11	2°D53	19° 8	22° 4	20°42	10°59	n.a.	W18
T 19	23 37 15	22°23'00	12♊58	6°D48	8°37	12°49	27°23	21°19	20°14	2°53	19° 7	22° 2	20°39	11° 6	n.a.	T 19
F 20	23 41 11	23°22'46	27° 8	6°56	9°42	13°29	27°36	21°25	20°16	2°53	19° 6	22°D 2	20°36	11°12	n.a.	F 20
S 21	23 45 8	24°22'34	11♋11	7°14	10°47	14° 8	27°49	21°32	20°18	2°53	19° 5	22° 3	20°33	11°19	n.a.	S 21
S 22	23 49 4	25°22'24	25° 5	7°43	11°52	14°48	28° 2	21°39	20°20	2°53	19° 3	22° 4	20°29	11°26	n.a.	S 22
M23	23 53 1	26°22'17	8♌50	8°21	12°57	15°28	28°16	21°45	20°22	2°54	19° 2	22° 6	20°26	11°33	n.a.	M23
T 24	23 56 57	27°22'12	22°24	9° 7	14° 1	16° 8	28°29	21°52	20°24	2°54	19° 1	22°R 6	20°23	11°39	n.a.	T 24
W25	0 0 54	28°22'09	5♍47	10° 1	15° 5	16°48	28°42	21°58	20°26	2°54	19° 0	22° 5	20°20	11°46	n.a.	W25
T 26	0 4 51	29°22'09	18°59	11° 2	16° 9	17°28	28°55	22° 5	20°28	2°54	18°59	22° 3	20°17	11°53	n.a.	T 26
F 27	0 8 47	0♎22'10	1♎57	12° 9	17°13	18° 8	29° 8	22°11	20°30	2°55	18°58	21°58	20°14	11°59	n.a.	F 27
S 28	0 12 44	1°22'13	14°42	13°22	18°17	18°48	29°21	22°18	20°31	2°55	18°57	21°52	20°10	12° 6	n.a.	S 28
S 29	0 16 40	2°22'19	27°14	14°39	19°20	19°28	29°35	22°24	20°33	2°55	18°55	21°44	20° 7	12°13	n.a.	S 29
M30	0 20 37	3♎22'26	9♏32	15♍59	20♏23	20♍ 8	29♍48	22♌30	20♋35	2♑56	18♓54	21♌36	20♌ 4	12♐20	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n57	3s31	4n25	0s 0	3s45	8s41	1s27	12n14	1n 3	3n43	1n12	16n44	1n35	22n48	0n31	23s12	0n28	20s17	17s35	14n13	14n28	17s13		n.a.
M 2	9 35	7 32	4 56	0n14	3 42	9 11	1 31	11 59	1 3	3 37	1 12	16 42	1 35	22 47	0 31	23 12	0 28	20 18	17 35	14 13	14 29	17 14		n.a.
T 3	9 13	11 10	5 12	0 34	3 38	9 41	1 35	11 45	1 2	3 32	1 12	16 40	1 35	22 47	0 31	23 12	0 28	20 18	17 35	14 14	14 30	17 15		n.a.
W 4	8 51	14 18	5 15	0 57	3 32	10 11	1 40	11 30	1 2	3 27	1 12	16 37	1 35	22 46	0 31	23 12	0 28	20 19	17 35	14 14	14 31	17 16		n.a.
T 5	8 28	16 49	5 5	1 26	3 23	10 41	1 44	11 16	1 2	3 22	1 12	16 35	1 35	22 46	0 31	23 12	0 28	20 19	17 35	14 15	14 32	17 18		n.a.
F 6	8 6	18 37	4 41	1 58	3 13	11 10	1 48	11 1	1 2	3 17	1 12	16 33	1 35	22 46	0 31	23 13	0 28	20 20	17 35	14 14	14 33	17 19		n.a.
S 7	7 43	19 37	4 5	2 34	3 1	11 39	1 52	10 46	1 1	3 11	1 12	16 31	1 35	22 45	0 31	23 13	0 28	20 20	17 35	14 14	14 34	17 20		n.a.
S 8	7 21	19 44	3 18	3 14	2 47	12 8	1 57	10 31	1 1	3 6	1 12	16 29	1 36	22 45	0 31	23 13	0 28	20 21	17 35	14 14	14 35	17 21		n.a.
M 9	6 58	18 55	2 21	3 56	2 31	12 36	2 1	10 17	1 1	3 1	1 12	16 26	1 36	22 45	0 31	23 13	0 28	20 21	17 35	14 13	14 36	17 23		n.a.
T 10	6 35	17 9	1 17	4 40	2 13	13 5	2 5	10 1	1 1	2 56	1 12	16 24	1 36	22 44	0 31	23 13	0 28	20 22	17 35	14 13	14 37	17 24		n.a.
W11	6 12	14 29	0 6	5 24	1 55	13 33	2 9	9 46	1 0	2 50	1 11	16 22	1 36	22 44	0 31	23 13	0 28	20 22	17 36	14 12	14 38	17 25		n.a.
T 12	5 48	11 1	1s 6	6 8	1 35	14 0	2 13	9 31	1 0	2 45	1 11	16 20	1 36	22 44	0 31	23 13	0 28	20 23	17 36	14 13	14 39	17 26		n.a.
F 13	5 25	6 54	2 16	6 50	1 15	14 28	2 18	9 16	1 0	2 40	1 11	16 18	1 36	22 43	0 31	23 13	0 28	20 23	17 36	14 13	14 40	17 28		n.a.
S 14	5 2	2 20	3 20	7 29	0 54	14 55	2 22	9 1	1 0	2 35	1 11	16 16	1 36	22 43	0 31	23 13	0 28	20 24	17 36	14 14	14 41	17 29		n.a.
S 15	4 38	2n25	4 12	8 5	0 34	15 22	2 26	8 45	0 59	2 29	1 11	16 14	1 36	22 43	0 31	23 13	0 28	20 24	17 36	14 15	14 42	17 30		n.a.
M16	4 15	7 5	4 50	8 37	0 14	15 48	2 30	8 30	0 59	2 24	1 11	16 12	1 37	22 42	0 31	23 13	0 28	20 25	17 36	14 17	14 43	17 31		n.a.
T 17	3 51	11 24	5 10	9 4	0n 5	16 14	2 34	8 14	0 59	2 19	1 11	16 9	1 37	22 42	0 32	23 13	0 28	20 25	17 36	14 18	14 44	17 33		n.a.
W18	3 27	15 2	5 11	9 26	0 22	16 40	2 38	7 59	0 58	2 14	1 11	16 7	1 37	22 42	0 32	23 13	0 28	20 26	17 36	14 19	14 45	17 34		n.a.
T 19	3 3	17 47	4 52	9 43	0 39	17 5	2 42	7 43	0 58	2 8	1 11	16 5	1 37	22 41	0 32	23 13	0 28	20 26	17 36	14 19	14 46	17 35		n.a.
F 20	2 39	19 25	4 16	9 54	0 54	17 30	2 46	7 27	0 58	2 3	1 11	16 3	1 37	22 41	0 32	23 13	0 28	20 26	17 35	14 19	14 47	17 36		n.a.
S 21	2 16	19 50	3 25	9 59	1 7	17 54	2 49	7 12	0 58	1 58	1 11	16 1	1 37	22 41	0 32	23 13	0 28	20 27	17 35	14 19	14 48	17 37		n.a.
S 22	1 52	19 2	2 22	10 0	1 19	18 18	2 53	6 56	0 57	1 52	1 11	15 59	1 37	22 40	0 32	23 13	0 28	20 27	17 35	14 19	14 49	17 39		n.a.
M23	1 27	17 6	1 12	9 55	1 30	18 42	2 57	6 40	0 57	1 47	1 11	15 57	1 38	22 40	0 32	23 13	0 28	20 28	17 35	14 18	14 50	17 40		n.a.
T 24	1 3	14 14	0n 2	9 46	1 39	19 5	3 0	6 24	0 57	1 42	1 11	15 55	1 38	22 40	0 32	23 13	0 28	20 28	17 35	14 18	14 51	17 41		n.a.
W25	0 39	10 38	1 14	9 32	1 46	19 28	3 4	6 8	0 56	1 36	1 11	15 53	1 38	22 40	0 32	23 13	0 28	20 28	17 35	14 18	14 52	17 42		n.a.
T 26	0 15	6 34	2 21	9 14	1 53	19 51	3 7	5 52	0 56	1 31	1 11	15 51	1 38	22 39	0 32	23 13	0 28	20 29	17 35	14 19	14 53	17 44		n.a.
F 27	0s 9	2 16	3 19	8 53	1 57	20 13	3 11	5 36	0 56	1 26	1 11	15 49	1 38	22 39	0 32	23 13	0 28	20 29	17 35	14 21	14 54	17 45		n.a.
S 28	0 33	2s 4	4 7	8 28	2 1	20 34	3 14	5 20	0 55	1 21	1 11	15 47	1 38	22 39	0 32	23 13	0 28	20 30	17 35	14 23	14 55	17 46		n.a.
S 29	0 57	6 14	4 41	8 1	2 4	20 55	3 17	5 4	0 55	1 15	1 11	15 45	1 39	22 39	0 32	23 13	0 28	20 30	17 35	14 25	14 56	17 47		n.a.
M30	1s21	10s 4	5n 2	7n30	2n 5	21s15	3s20	4n47	0n55	1n10	1n11	15n43	1n39	22n38	0n32	23s13	0n28	20s30	17s35	14n28	14n57	17s48		n.a.

Julian Day Number = 1669435.5, Delta T = 03h21m22s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'55, Lahiri = - 5°54'54 Julian Calendar 1 Sept. 143 BCE == Greg. Calendar 29 Aug. 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

OCTOBER 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 24 33	4♎22'35	21♏39	17♍24	21♏25	20♍48	0♎ 1	22♌37	20♋36	2♑56	18°R53	21°R29	20♌ 1	12♐26	n.a.	T 1
W 2	0 28 30	5°22'46	3♐37	18°51	22°27	21°28	0°14	22°43	20°38	2°56	18♓52	21♌23	19°58	12°33	n.a.	W 2
T 3	0 32 26	6°22'58	15°29	20°20	23°29	22° 9	0°27	22°49	20°39	2°57	18°51	21°18	19°55	12°40	n.a.	T 3
F 4	0 36 23	7°23'12	27°20	21°51	24°31	22°49	0°40	22°55	20°41	2°57	18°50	21°16	19°51	12°46	n.a.	F 4
S 5	0 40 19	8°23'28	9♑14	23°24	25°32	23°29	0°53	23° 1	20°42	2°58	18°49	21°D15	19°48	12°53	n.a.	S 5
S 6	0 44 16	9°23'45	21°16	24°57	26°33	24° 9	1° 6	23° 7	20°44	2°59	18°48	21°16	19°45	13° 0	n.a.	S 6
M 7	0 48 13	10°24'04	3♒32	26°32	27°34	24°50	1°19	23°13	20°45	2°59	18°47	21°17	19°42	13° 7	n.a.	M 7
T 8	0 52 9	11°24'25	16° 6	28° 8	28°34	25°30	1°33	23°19	20°46	3° 0	18°46	21°R18	19°39	13°13	n.a.	T 8
W 9	0 56 6	12°24'47	29° 2	29°44	29°34	26°10	1°46	23°24	20°48	3° 1	18°45	21°18	19°35	13°20	n.a.	W 9
T 10	1 0 2	13°25'11	12♓24	1♎21	0♐34	26°51	1°59	23°30	20°49	3° 1	18°43	21°16	19°32	13°27	n.a.	T 10
F 11	1 3 59	14°25'36	26°11	2°58	1°33	27°31	2°12	23°36	20°50	3° 2	18°42	21°11	19°29	13°33	n.a.	F 11
S 12	1 7 55	15°26'02	10♈22	4°35	2°31	28°12	2°25	23°41	20°51	3° 3	18°41	21° 5	19°26	13°40	n.a.	S 12
S 13	1 11 52	16°26'31	24°52	6°12	3°29	28°52	2°38	23°47	20°52	3° 4	18°40	20°56	19°23	13°47	n.a.	S 13
M14	1 15 48	17°27'01	9♉35	7°49	4°27	29°33	2°51	23°52	20°53	3° 4	18°39	20°47	19°20	13°54	n.a.	M14
T 15	1 19 45	18°27'33	24°22	9°26	5°24	0♎13	3° 4	23°57	20°54	3° 5	18°38	20°38	19°16	14° 0	n.a.	T 15
W16	1 23 42	19°28'07	9♊ 6	11° 3	6°21	0°54	3°16	24° 3	20°54	3° 6	18°37	20°31	19°13	14° 7	n.a.	W16
T 17	1 27 38	20°28'43	23°40	12°40	7°17	1°35	3°29	24° 8	20°55	3° 7	18°36	20°25	19°10	14°14	n.a.	T 17
F 18	1 31 35	21°29'21	7♋58	14°16	8°13	2°15	3°42	24°13	20°56	3° 8	18°36	20°22	19° 7	14°20	n.a.	F 18
S 19	1 35 31	22°30'01	22° 0	15°53	9° 8	2°56	3°55	24°18	20°57	3° 9	18°35	20°D22	19° 4	14°27	n.a.	S 19
S 20	1 39 28	23°30'42	5♌44	17°29	10° 2	3°37	4° 8	24°23	20°57	3°10	18°34	20°22	19° 1	14°34	n.a.	S 20
M21	1 43 24	24°31'25	19°12	19° 5	10°56	4°18	4°21	24°28	20°58	3°11	18°33	20°R22	18°57	14°41	n.a.	M21
T 22	1 47 21	25°32'10	2♍26	20°41	11°49	4°58	4°33	24°33	20°58	3°12	18°32	20°22	18°54	14°47	n.a.	T 22
W23	1 51 17	26°32'57	15°27	22°17	12°42	5°39	4°46	24°38	20°59	3°13	18°31	20°19	18°51	14°54	n.a.	W23
T 24	1 55 14	27°33'45	28°16	23°53	13°34	6°20	4°59	24°42	20°59	3°15	18°30	20°13	18°48	15° 1	n.a.	T 24
F 25	1 59 11	28°34'35	10♎55	25°28	14°25	7° 1	5°11	24°47	21° 0	3°16	18°29	20° 5	18°45	15° 7	n.a.	F 25
S 26	2 3 7	29°35'26	23°24	27° 3	15°15	7°42	5°24	24°52	21° 0	3°17	18°28	19°54	18°41	15°14	n.a.	S 26
S 27	2 7 4	0♏36'18	5♏43	28°38	16° 5	8°23	5°37	24°56	21° 0	3°18	18°28	19°40	18°38	15°21	n.a.	S 27
M28	2 11 0	1°37'12	17°53	0♏13	16°54	9° 4	5°49	25° 0	21° 0	3°20	18°27	19°27	18°35	15°27	n.a.	M28
T 29	2 14 57	2°38'07	29°55	1°48	17°42	9°45	6° 2	25° 5	21° 0	3°21	18°26	19°13	18°32	15°34	n.a.	T 29
W30	2 18 53	3°39'04	11♐49	3°22	18°29	10°26	6°14	25° 9	21°R 0	3°22	18°25	19° 1	18°29	15°41	n.a.	W30
T 31	2 22 50	4♏40'01	23♐40	4♏57	19♐16	11♎ 7	6♎26	25♌13	21♋ 0	3♑24	18♓24	18♌52	18♌26	15♐48	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	1s45	13s25	5n 9	6n58	2n 6	21s35	3s24	4n31	0n55	1n 5	1n11	15n41	1n39	22n38	0n32	23s13	0n27	20s31	17s35	14n30	14n58	17s49			n.a.
W 2	2 10	16 11	5 2	6 23	2 6	21 55	3 27	4 15	0 54	0 59	1 11	15 39	1 39	22 38	0 32	23 13	0 27	20 31	17 35	14 32	15 0	17 51			n.a.
T 3	2 34	18 14	4 42	5 47	2 5	22 14	3 29	3 58	0 54	0 54	1 11	15 38	1 39	22 38	0 32	23 13	0 27	20 31	17 35	14 34	15 1	17 52			n.a.
F 4	2 58	19 31	4 10	5 9	2 3	22 32	3 32	3 42	0 54	0 49	1 11	15 36	1 39	22 38	0 32	23 13	0 27	20 32	17 34	14 34	15 2	17 53			n.a.
S 5	3 22	19 56	3 27	4 30	2 1	22 50	3 35	3 26	0 53	0 44	1 11	15 34	1 40	22 37	0 32	23 13	0 27	20 32	17 34	14 35	15 3	17 54			n.a.
S 6	3 46	19 28	2 35	3 49	1 58	23 8	3 37	3 9	0 53	0 38	1 11	15 32	1 40	22 37	0 32	23 13	0 27	20 32	17 34	14 34	15 4	17 55			n.a.
M 7	4 10	18 3	1 34	3 8	1 54	23 24	3 40	2 53	0 53	0 33	1 11	15 30	1 40	22 37	0 32	23 13	0 27	20 33	17 34	14 34	15 5	17 57			n.a.
T 8	4 34	15 45	0 28	2 26	1 50	23 41	3 42	2 36	0 52	0 28	1 11	15 29	1 40	22 37	0 32	23 13	0 27	20 33	17 34	14 34	15 6	17 58			n.a.
W 9	4 58	12 35	0s42	1 44	1 46	23 56	3 44	2 20	0 52	0 23	1 11	15 27	1 40	22 37	0 32	23 13	0 27	20 33	17 34	14 34	15 7	17 59			n.a.
T 10	5 21	8 41	1 51	1 1	1 42	24 11	3 47	2 3	0 51	0 17	1 11	15 25	1 41	22 37	0 32	23 13	0 27	20 34	17 34	14 34	15 8	18 0			n.a.
F 11	5 45	4 13	2 56	0 17	1 37	24 26	3 49	1 47	0 51	0 12	1 11	15 23	1 41	22 37	0 32	23 13	0 27	20 34	17 33	14 36	15 9	18 1			n.a.
S 12	6 9	0n36	3 52	0s27	1 31	24 40	3 50	1 30	0 51	0 7	1 11	15 22	1 41	22 36	0 32	23 13	0 27	20 34	17 33	14 38	15 10	18 2			n.a.
S 13	6 32	5 29	4 34	1 10	1 26	24 53	3 52	1 13	0 50	0 2	1 11	15 20	1 41	22 36	0 32	23 13	0 27	20 34	17 33	14 41	15 11	18 4			n.a.
M14	6 56	10 7	4 59	1 54	1 20	25 6	3 54	0 57	0 50	0s 3	1 11	15 18	1 41	22 36	0 32	23 13	0 27	20 35	17 33	14 44	15 12	18 5			n.a.
T 15	7 19	14 10	5 4	2 38	1 14	25 18	3 55	0 40	0 50	0 9	1 11	15 17	1 42	22 36	0 33	23 13	0 27	20 35	17 33	14 47	15 13	18 6			n.a.
W16	7 42	17 18	4 49	3 22	1 8	25 29	3 56	0 23	0 49	0 14	1 11	15 15	1 42	22 36	0 33	23 13	0 27	20 35	17 32	14 49	15 14	18 7			n.a.
T 17	8 5	19 18	4 15	4 6	1 2	25 40	3 57	0 7	0 49	0 19	1 11	15 14	1 42	22 36	0 33	23 13	0 27	20 35	17 32	14 51	15 15	18 8			n.a.
F 18	8 28	20 2	3 26	4 50	0 56	25 51	3 58	0s10	0 48	0 24	1 11	15 12	1 42	22 36	0 33	23 13	0 27	20 35	17 32	14 52	15 16	18 9			n.a.
S 19	8 51	19 30	2 25	5 34	0 49	26 0	3 59	0 27	0 48	0 29	1 11	15 11	1 42	22 36	0 33	23 13	0 27	20 36	17 32	14 52	15 17	18 10			n.a.
S 20	9 14	17 48	1 17	6 17	0 43	26 9	4 0	0 43	0 48	0 34	1 11	15 9	1 43	22 36	0 33	23 13	0 27	20 36	17 32	14 52	15 18	18 12			n.a.
M21	9 36	15 8	0 6	7 0	0 36	26 18	4 0	1 0	0 47	0 39	1 11	15 8	1 43	22 36	0 33	23 13	0 27	20 36	17 31	14 52	15 19	18 13			n.a.
T 22	9 59	11 43	1n 4	7 42	0 30	26 26	4 0	1 17	0 47	0 44	1 11	15 6	1 43	22 36	0 33	23 13	0 27	20 36	17 31	14 52	15 20	18 14			n.a.
W23	10 21	7 47	2 9	8 25	0 23	26 33	4 0	1 34	0 46	0 49	1 11	15 5	1 43	22 36	0 33	23 13	0 27	20 36	17 31	14 53	15 21	18 15			n.a.
T 24	10 43	3 33	3 7	9 7	0 17	26 39	4 0	1 50	0 46	0 54	1 12	15 3	1 43	22 36	0 33	23 13	0 27	20 36	17 31	14 55	15 22	18 16			n.a.
F 25	11 5	0s47	3 54	9 48	0 10	26 45	4 0	2 7	0 46	0 59	1 12	15 2	1 44	22 36	0 33	23 13	0 27	20 37	17 30	14 57	15 23	18 17			n.a.
S 26	11 27	5 1	4 30	10 29	0 3	26 51	3 59	2 24	0 45	1 4	1 12	15 1	1 44	22 36	0 33	23 13	0 27	20 37	17 30	15 1	15 24	18 18			n.a.
S 27	11 49	8 59	4 52	11 10	0s 3	26 55	3 58	2 41	0 45	1 9	1 12	14 59	1 44	22 36	0 33	23 13	0 27	20 37	17 30	15 5	15 25	18 19			n.a.
M28	12 10	12 33	5 1	11 50	0 10	27 0	3 57	2 57	0 44	1 14	1 12	14 58	1 44	22 36	0 33	23 13	0 27	20 37	17 30	15 9	15 26	18 20			n.a.
T 29	12 31	15 33	4 56	12 29	0 16	27 3	3 56	3 14	0 44	1 19	1 12	14 57	1 45	22 36	0 33	23 13	0 27	20 37	17 29	15 14	15 27	18 22			n.a.
W30	12 52	17 52	4 38	13 8	0 23	27 6	3 55	3 31	0 44	1 24	1 12	14 56	1 45	22 36	0 33	23 13	0 27	20 37	17 29	15 17	15 28	18 23			n.a.
T 31	13s13	19s26	4n 8	13s47	0s29	27s 8	3s53	3s47	0n43	1s29	1n12	14n54	1n45	22n36	0n33	23s13	0n27	20s37	17s29	15n20	15n29	18s24			n.a.

Julian Day Number = 1669465.5, Delta T = 03h21m21s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'51, Lahiri = - 5°54'50 Julian Calendar 1 Oct. 143 BCE == Greg. Calendar 28 Sept. 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

NOVEMBER 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 26 46	5♏40'59	5♑28	6♏31	20♐ 1	11♎48	6♎39	25♌17	21°R 0	3♑25	18°R24	18°R45	18♌22	15♐54	n.a.	F 1
S 2	2 30 43	6°41'58	17°20	8° 6	20°45	12°30	6°51	25°21	21♋ 0	3°26	18♓23	18♌41	18°19	16° 1	n.a.	S 2
S 3	2 34 40	7°42'58	29°18	9°40	21°29	13°11	7° 3	25°25	21° 0	3°28	18°22	18°40	18°16	16° 8	n.a.	S 3
M 4	2 38 36	8°43'59	11♒29	11°14	22°11	13°52	7°15	25°28	21° 0	3°29	18°22	18°39	18°13	16°14	n.a.	M 4
T 5	2 42 33	9°45'01	23°58	12°48	22°52	14°33	7°28	25°32	20°59	3°31	18°21	18°39	18°10	16°21	n.a.	T 5
W 6	2 46 29	10°46'03	6♓50	14°22	23°32	15°15	7°40	25°36	20°59	3°32	18°20	18°38	18° 6	16°28	n.a.	W 6
T 7	2 50 26	11°47'06	20°10	15°56	24°11	15°56	7°52	25°39	20°59	3°34	18°20	18°35	18° 3	16°35	n.a.	T 7
F 8	2 54 22	12°48'09	3♈59	17°31	24°48	16°37	8° 4	25°43	20°58	3°36	18°19	18°30	18° 0	16°41	n.a.	F 8
S 9	2 58 19	13°49'14	18°17	19° 5	25°24	17°19	8°15	25°46	20°58	3°37	18°18	18°21	17°57	16°48	n.a.	S 9
S 10	3 2 15	14°50'19	3♉ 2	20°39	25°59	18° 0	8°27	25°49	20°57	3°39	18°18	18°10	17°54	16°55	n.a.	S 10
M11	3 6 12	15°51'24	18° 4	22°13	26°32	18°42	8°39	25°52	20°57	3°40	18°17	17°58	17°51	17° 1	n.a.	M11
T 12	3 10 9	16°52'31	3♊16	23°48	27° 4	19°23	8°51	25°55	20°56	3°42	18°17	17°47	17°47	17° 8	n.a.	T 12
W13	3 14 5	17°53'39	18°24	25°22	27°34	20° 5	9° 2	25°58	20°55	3°44	18°16	17°36	17°44	17°15	n.a.	W13
T 14	3 18 2	18°54'47	3♋21	26°56	28° 3	20°46	9°14	26° 1	20°55	3°46	18°16	17°29	17°41	17°21	n.a.	T 14
F 15	3 21 58	19°55'56	17°58	28°31	28°30	21°28	9°26	26° 3	20°54	3°47	18°15	17°24	17°38	17°28	n.a.	F 15
S 16	3 25 55	20°57'07	2♌11	0♐ 5	28°55	22°10	9°37	26° 6	20°53	3°49	18°15	17°22	17°35	17°35	n.a.	S 16
S 17	3 29 51	21°58'18	16° 0	1°40	29°18	22°51	9°48	26° 9	20°52	3°51	18°14	17°22	17°32	17°42	n.a.	S 17
M18	3 33 48	22°59'29	29°26	3°14	29°40	23°33	10° 0	26°11	20°51	3°53	18°14	17°21	17°28	17°48	n.a.	M18
T 19	3 37 44	24° 0'42	12♍31	4°49	29°59	24°15	10°11	26°13	20°50	3°54	18°14	17°20	17°25	17°55	n.a.	T 19
W20	3 41 41	25° 1'55	25°19	6°24	0♑17	24°57	10°22	26°15	20°49	3°56	18°13	17°17	17°22	18° 2	n.a.	W20
T 21	3 45 38	26° 3'10	7♎53	7°58	0°33	25°39	10°33	26°18	20°48	3°58	18°13	17°11	17°19	18° 8	n.a.	T 21
F 22	3 49 34	27° 4'24	20°16	9°32	0°46	26°20	10°44	26°20	20°46	4° 0	18°12	17° 2	17°16	18°15	n.a.	F 22
S 23	3 53 31	28° 5'39	2♏31	11° 7	0°58	27° 2	10°55	26°21	20°45	4° 2	18°12	16°50	17°12	18°22	n.a.	S 23
S 24	3 57 27	29° 6'55	14°37	12°41	1° 7	27°44	11° 6	26°23	20°44	4° 4	18°12	16°37	17° 9	18°29	n.a.	S 24
M25	4 1 24	0♐ 8'11	26°38	14°14	1°13	28°26	11°16	26°25	20°43	4° 6	18°12	16°22	17° 6	18°35	n.a.	M25
T 26	4 5 20	1° 9'27	8♐34	15°48	1°18	29° 8	11°27	26°26	20°41	4° 8	18°11	16° 7	17° 3	18°42	n.a.	T 26
W27	4 9 17	2°10'44	20°26	17°20	1°R20	29°50	11°38	26°28	20°40	4°10	18°11	15°55	17° 0	18°49	n.a.	W27
T 28	4 13 13	3°12'01	2♑15	18°52	1°19	0♏32	11°48	26°29	20°38	4°12	18°11	15°44	16°57	18°55	n.a.	T 28
F 29	4 17 10	4°13'17	14° 4	20°23	1°17	1°15	11°58	26°30	20°37	4°14	18°11	15°37	16°53	19° 2	n.a.	F 29
S 30	4 21 7	5♐14'34	25♑56	21♐53	1♑11	1♏57	12♎ 9	26♌32	20♋35	4♑16	18♓11	15♌32	16♌50	19♐ 9	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s34	20s 9	3n27	14s24	0s36	27s10	3s51	4s 4	0n43	1s34	1n12	14n53	1n45	22n36	0n33	23s13	0n27	20s37	17s29	15n22	15n30	18s25		n.a.
S 2	13 54	19 58	2 38	15 1	0 42	27 11	3 49	4 21	0 42	1 39	1 12	14 52	1 45	22 36	0 33	23 13	0 27	20 37	17 28	15 24	15 31	18 26		n.a.
S 3	14 14	18 53	1 41	15 38	0 48	27 12	3 46	4 37	0 42	1 44	1 12	14 51	1 46	22 36	0 33	23 13	0 27	20 37	17 28	15 24	15 32	18 27		n.a.
M 4	14 34	16 56	0 38	16 13	0 54	27 12	3 43	4 54	0 41	1 48	1 12	14 50	1 46	22 36	0 33	23 13	0 27	20 37	17 28	15 24	15 33	18 28		n.a.
T 5	14 54	14 7	0s28	16 48	1 0	27 11	3 40	5 10	0 41	1 53	1 12	14 49	1 46	22 36	0 33	23 13	0 27	20 37	17 27	15 24	15 34	18 29		n.a.
W 6	15 13	10 34	1 35	17 22	1 6	27 10	3 37	5 27	0 40	1 58	1 12	14 48	1 46	22 36	0 33	23 13	0 27	20 37	17 27	15 25	15 35	18 30		n.a.
T 7	15 33	6 22	2 38	17 56	1 11	27 8	3 33	5 44	0 40	2 3	1 12	14 47	1 47	22 36	0 33	23 13	0 27	20 37	17 27	15 26	15 36	18 31		n.a.
F 8	15 51	1 41	3 35	18 28	1 17	27 6	3 29	6 0	0 39	2 7	1 13	14 46	1 47	22 36	0 33	23 13	0 26	20 37	17 27	15 27	15 36	18 32		n.a.
S 9	16 10	3n15	4 20	19 0	1 22	27 3	3 25	6 16	0 39	2 12	1 13	14 45	1 47	22 36	0 33	23 13	0 26	20 37	17 26	15 30	15 37	18 34		n.a.
S 10	16 28	8 7	4 50	19 31	1 27	26 59	3 20	6 33	0 38	2 17	1 13	14 44	1 47	22 36	0 33	23 13	0 26	20 37	17 26	15 33	15 38	18 35		n.a.
M11	16 46	12 36	5 0	20 1	1 32	26 55	3 16	6 49	0 38	2 21	1 13	14 44	1 48	22 37	0 34	23 13	0 26	20 37	17 26	15 37	15 39	18 36		n.a.
T 12	17 4	16 19	4 49	20 30	1 37	26 51	3 10	7 6	0 38	2 26	1 13	14 43	1 48	22 37	0 34	23 13	0 26	20 37	17 25	15 41	15 40	18 37		n.a.
W13	17 21	18 55	4 18	20 57	1 41	26 46	3 5	7 22	0 37	2 30	1 13	14 42	1 48	22 37	0 34	23 13	0 26	20 37	17 25	15 44	15 41	18 38		n.a.
T 14	17 39	20 10	3 30	21 24	1 45	26 40	2 59	7 38	0 37	2 35	1 13	14 41	1 48	22 37	0 34	23 13	0 26	20 37	17 25	15 46	15 42	18 39		n.a.
F 15	17 55	20 2	2 29	21 50	1 49	26 34	2 52	7 54	0 36	2 39	1 13	14 41	1 49	22 37	0 34	23 13	0 26	20 37	17 24	15 48	15 43	18 40		n.a.
S 16	18 12	18 37	1 19	22 14	1 53	26 28	2 45	8 11	0 36	2 44	1 13	14 40	1 49	22 37	0 34	23 13	0 26	20 36	17 24	15 48	15 44	18 41		n.a.
S 17	18 28	16 6	0 7	22 38	1 57	26 21	2 38	8 27	0 35	2 48	1 13	14 39	1 49	22 38	0 34	23 13	0 26	20 36	17 24	15 48	15 45	18 42		n.a.
M18	18 44	12 47	1n 3	23 0	2 0	26 13	2 30	8 43	0 34	2 53	1 14	14 39	1 49	22 38	0 34	23 13	0 26	20 36	17 23	15 48	15 46	18 43		n.a.
T 19	18 59	8 55	2 9	23 21	2 3	26 5	2 22	8 59	0 34	2 57	1 14	14 38	1 50	22 38	0 34	23 13	0 26	20 36	17 23	15 49	15 47	18 44		n.a.
W20	19 14	4 43	3 6	23 41	2 5	25 57	2 14	9 15	0 33	3 1	1 14	14 38	1 50	22 38	0 34	23 13	0 26	20 36	17 23	15 50	15 48	18 45		n.a.
T 21	19 29	0 24	3 53	23 59	2 7	25 48	2 5	9 31	0 33	3 6	1 14	14 37	1 50	22 38	0 34	23 13	0 26	20 36	17 22	15 52	15 49	18 46		n.a.
F 22	19 44	3s52	4 29	24 16	2 9	25 38	1 56	9 47	0 32	3 10	1 14	14 37	1 51	22 39	0 34	23 13	0 26	20 35	17 22	15 54	15 50	18 47		n.a.
S 23	19 58	7 56	4 51	24 31	2 10	25 28	1 46	10 2	0 32	3 14	1 14	14 36	1 51	22 39	0 34	23 13	0 26	20 35	17 22	15 58	15 51	18 48		n.a.
S 24	20 11	11 38	5 0	24 45	2 11	25 18	1 36	10 18	0 31	3 18	1 14	14 36	1 51	22 39	0 34	23 13	0 26	20 35	17 21	16 2	15 52	18 49		n.a.
M25	20 25	14 50	4 55	24 57	2 12	25 8	1 25	10 34	0 31	3 22	1 14	14 36	1 51	22 39	0 34	23 13	0 26	20 35	17 21	16 7	15 53	18 50		n.a.
T 26	20 37	17 24	4 38	25 7	2 12	24 56	1 14	10 49	0 30	3 26	1 14	14 35	1 52	22 40	0 34	23 13	0 26	20 35	17 20	16 11	15 54	18 51		n.a.
W27	20 50	19 14	4 8	25 16	2 11	24 45	1 3	11 5	0 30	3 30	1 15	14 35	1 52	22 40	0 34	23 13	0 26	20 34	17 20	16 15	15 55	18 52		n.a.
T 28	21 2	20 13	3 28	25 24	2 10	24 33	0 51	11 20	0 29	3 34	1 15	14 35	1 52	22 40	0 34	23 13	0 26	20 34	17 20	16 18	15 56	18 53		n.a.
F 29	21 14	20 20	2 39	25 29	2 8	24 20	0 38	11 36	0 29	3 38	1 15	14 35	1 52	22 40	0 34	23 12	0 26	20 34	17 19	16 20	15 57	18 54		n.a.
S 30	21s25	19s32	1n42	25s33	2s 6	24s 8	0s25	11s51	0n28	3s42	1n15	14n35	1n53	22n41	0n34	23s12	0n26	20s34	17s19	16n22	15n58	18s55		n.a.

Julian Day Number = 1669496.5, Delta T = 03h21m20s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'46, Lahiri = - 5°54'46 Julian Calendar 1 Nov. 143 BCE == Greg. Calendar 29 Oct. 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 143 BCE
geocentric

DECEMBER 143 BCE (-142) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 25 3	6♐15'50	7♒54	23♐22	1°R 3	2♏39	12♎19	26♌33	20°R34	4♑18	18°R11	15°R30	16♌47	19♐15	n.a.	S 1
M 2	4 29 0	7°17'06	20° 3	24°49	0♑53	3°21	12°29	26°33	20♋32	4°20	18♓10	15°D30	16°44	19°22	n.a.	M 2
T 3	4 32 56	8°18'22	2♓28	26°14	0°40	4° 3	12°39	26°34	20°30	4°22	18°10	15°R31	16°41	19°29	n.a.	T 3
W 4	4 36 53	9°19'37	15°14	27°37	0°24	4°46	12°49	26°35	20°29	4°24	18°10	15♌30	16°38	19°36	n.a.	W 4
T 5	4 40 49	10°20'52	28°25	28°57	0° 6	5°28	12°59	26°36	20°27	4°26	18°10	15°29	16°34	19°42	n.a.	T 5
F 6	4 44 46	11°22'06	12♈ 5	0♑13	29♐46	6°10	13° 8	26°36	20°25	4°28	18°D10	15°25	16°31	19°49	n.a.	F 6
S 7	4 48 43	12°23'20	26°16	1°26	29°23	6°52	13°18	26°36	20°23	4°31	18°10	15°19	16°28	19°56	n.a.	S 7
S 8	4 52 39	13°24'34	10♉56	2°34	28°58	7°35	13°27	26°37	20°21	4°33	18°10	15°10	16°25	20° 2	n.a.	S 8
M 9	4 56 36	14°25'47	25°59	3°37	28°32	8°17	13°37	26°37	20°19	4°35	18°10	15° 1	16°22	20° 9	n.a.	M 9
T 10	5 0 32	15°27'00	11♊17	4°34	28° 3	9° 0	13°46	26°R37	20°17	4°37	18°10	14°51	16°18	20°16	n.a.	T 10
W11	5 4 29	16°28'12	26°38	5°24	27°32	9°42	13°55	26°37	20°15	4°39	18°11	14°43	16°15	20°22	n.a.	W11
T 12	5 8 25	17°29'24	11♋51	6° 6	27° 0	10°25	14° 4	26°37	20°13	4°41	18°11	14°37	16°12	20°29	n.a.	T 12
F 13	5 12 22	18°30'36	26°45	6°40	26°26	11° 7	14°13	26°36	20°11	4°44	18°11	14°33	16° 9	20°36	n.a.	F 13
S 14	5 16 18	19°31'47	11♌16	7° 4	25°51	11°50	14°22	26°36	20° 9	4°46	18°11	14°D31	16° 6	20°43	n.a.	S 14
S 15	5 20 15	20°32'58	25°18	7°17	25°16	12°33	14°30	26°35	20° 7	4°48	18°11	14°32	16° 3	20°49	n.a.	S 15
M16	5 24 12	21°34'09	8♍53	7°R20	24°39	13°15	14°39	26°35	20° 5	4°50	18°11	14°33	15°59	20°56	n.a.	M16
T 17	5 28 8	22°35'20	22° 3	7°11	24° 2	13°58	14°47	26°34	20° 3	4°53	18°12	14°R33	15°56	21° 3	n.a.	T 17
W18	5 32 5	23°36'30	4♎51	6°51	23°25	14°41	14°56	26°33	20° 0	4°55	18°12	14°33	15°53	21° 9	n.a.	W18
T 19	5 36 1	24°37'39	17°20	6°18	22°49	15°23	15° 4	26°32	19°58	4°57	18°12	14°30	15°50	21°16	n.a.	T 19
F 20	5 39 58	25°38'49	29°36	5°35	22°12	16° 6	15°12	26°31	19°56	4°59	18°13	14°25	15°47	21°23	n.a.	F 20
S 21	5 43 54	26°39'57	11♏41	4°42	21°36	16°49	15°20	26°30	19°53	5° 2	18°13	14°18	15°44	21°29	n.a.	S 21
S 22	5 47 51	27°41'06	23°39	3°40	21° 1	17°32	15°27	26°29	19°51	5° 4	18°13	14° 9	15°40	21°36	n.a.	S 22
M23	5 51 47	28°42'13	5♐33	2°30	20°27	18°15	15°35	26°28	19°49	5° 6	18°14	14° 0	15°37	21°43	n.a.	M23
T 24	5 55 44	29°43'20	17°24	1°17	19°54	18°58	15°43	26°26	19°46	5° 8	18°14	13°51	15°34	21°50	n.a.	T 24
W25	5 59 41	0♑44'26	29°14	0° 0	19°23	19°41	15°50	26°24	19°44	5°11	18°14	13°42	15°31	21°56	n.a.	W25
T 26	6 3 37	1°45'31	11♑ 5	28♐44	18°54	20°24	15°57	26°23	19°41	5°13	18°15	13°36	15°28	22° 3	n.a.	T 26
F 27	6 7 34	2°46'35	22°59	27°30	18°26	21° 7	16° 4	26°21	19°39	5°15	18°15	13°31	15°24	22°10	n.a.	F 27
S 28	6 11 30	3°47'38	4♒57	26°19	18° 0	21°50	16°11	26°19	19°37	5°17	18°16	13°29	15°21	22°16	n.a.	S 28
S 29	6 15 27	4°48'40	17° 2	25°15	17°37	22°33	16°18	26°17	19°34	5°20	18°16	13°D29	15°18	22°23	n.a.	S 29
M30	6 19 23	5°49'40	29°17	24°17	17°15	23°16	16°25	26°15	19°32	5°22	18°17	13°30	15°15	22°30	n.a.	M30
T 31	6 23 20	6♑50'40	11♓45	23♐27	16♐56	23♏59	16♎31	26♌13	19♋29	5♑24	18♓18	13♌32	15♌12	22♐36	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	21s36	17s51	0n40	25s35	2s 2	23s55	0s12	12s 6	0n27	3s46	1n15	14n34	1n53	22n41	0n34	23s12	0n26	20s33	17s19	16n22	15n59	18s56			n.a.
M 2	21 46	15 21	0s24	25 35	1 58	23 41	0n 1	12 21	0 27	3 50	1 15	14 34	1 53	22 41	0 34	23 12	0 26	20 33	17 18	16 22	16 0	18 57			n.a.
T 3	21 56	12 6	1 29	25 33	1 54	23 27	0 15	12 36	0 26	3 54	1 15	14 34	1 53	22 41	0 34	23 12	0 26	20 33	17 18	16 22	16 1	18 58			n.a.
W 4	22 6	8 12	2 31	25 29	1 48	23 13	0 30	12 51	0 26	3 58	1 16	14 34	1 54	22 42	0 34	23 12	0 26	20 32	17 18	16 22	16 2	18 59			n.a.
T 5	22 15	3 48	3 28	25 24	1 42	22 58	0 44	13 6	0 25	4 1	1 16	14 34	1 54	22 42	0 34	23 12	0 26	20 32	17 17	16 23	16 3	19 0			n.a.
F 6	22 24	0n56	4 15	25 17	1 34	22 43	0 59	13 21	0 24	4 5	1 16	14 35	1 54	22 42	0 34	23 12	0 26	20 32	17 17	16 24	16 4	19 1			n.a.
S 7	22 32	5 47	4 48	25 8	1 26	22 28	1 14	13 35	0 24	4 9	1 16	14 35	1 55	22 43	0 34	23 12	0 26	20 31	17 16	16 26	16 5	19 2			n.a.
S 8	22 40	10 28	5 3	24 57	1 16	22 13	1 30	13 50	0 23	4 12	1 16	14 35	1 55	22 43	0 34	23 12	0 26	20 31	17 16	16 28	16 6	19 3			n.a.
M 9	22 47	14 38	4 59	24 45	1 6	21 57	1 45	14 4	0 23	4 16	1 16	14 35	1 55	22 43	0 34	23 12	0 26	20 31	17 16	16 31	16 7	19 4			n.a.
T 10	22 54	17 53	4 33	24 32	0 54	21 41	2 1	14 19	0 22	4 19	1 16	14 35	1 55	22 44	0 34	23 12	0 26	20 30	17 15	16 34	16 8	19 5			n.a.
W11	23 1	19 53	3 47	24 17	0 41	21 25	2 16	14 33	0 21	4 22	1 17	14 36	1 56	22 44	0 35	23 12	0 26	20 30	17 15	16 36	16 9	19 6			n.a.
T 12	23 7	20 26	2 46	24 1	0 27	21 9	2 32	14 47	0 21	4 26	1 17	14 36	1 56	22 44	0 35	23 12	0 26	20 30	17 15	16 38	16 10	19 7			n.a.
F 13	23 12	19 31	1 34	23 44	0 12	20 52	2 47	15 1	0 20	4 29	1 17	14 36	1 56	22 45	0 35	23 12	0 26	20 29	17 14	16 39	16 11	19 8			n.a.
S 14	23 18	17 19	0 18	23 27	0n 5	20 36	3 3	15 15	0 19	4 32	1 17	14 37	1 56	22 45	0 35	23 12	0 26	20 29	17 14	16 40	16 11	19 9			n.a.
S 15	23 22	14 8	0n58	23 9	0 22	20 20	3 18	15 29	0 19	4 36	1 17	14 37	1 57	22 45	0 35	23 12	0 26	20 28	17 13	16 39	16 12	19 10			n.a.
M16	23 26	10 17	2 7	22 50	0 40	20 4	3 32	15 42	0 18	4 39	1 17	14 37	1 57	22 46	0 35	23 12	0 26	20 28	17 13	16 39	16 13	19 11			n.a.
T 17	23 30	6 3	3 8	22 32	0 59	19 48	3 47	15 56	0 17	4 42	1 18	14 38	1 57	22 46	0 35	23 11	0 26	20 27	17 13	16 39	16 14	19 12			n.a.
W18	23 33	1 40	3 57	22 14	1 18	19 32	4 1	16 9	0 17	4 45	1 18	14 38	1 57	22 46	0 35	23 11	0 26	20 27	17 12	16 39	16 15	19 13			n.a.
T 19	23 36	2s40	4 34	21 57	1 37	19 17	4 14	16 23	0 16	4 48	1 18	14 39	1 58	22 47	0 35	23 11	0 26	20 27	17 12	16 40	16 16	19 14			n.a.
F 20	23 38	6 49	4 57	21 40	1 56	19 2	4 27	16 36	0 15	4 51	1 18	14 40	1 58	22 47	0 35	23 11	0 26	20 26	17 12	16 42	16 17	19 15			n.a.
S 21	23 40	10 39	5 7	21 24	2 14	18 48	4 39	16 49	0 15	4 54	1 18	14 40	1 58	22 47	0 35	23 11	0 26	20 26	17 11	16 44	16 18	19 16			n.a.
S 22	23 41	14 0	5 3	21 8	2 31	18 34	4 51	17 2	0 14	4 57	1 19	14 41	1 58	22 48	0 35	23 11	0 26	20 25	17 11	16 46	16 19	19 17			n.a.
M23	23 42	16 47	4 46	20 54	2 47	18 21	5 2	17 15	0 13	5 0	1 19	14 42	1 59	22 48	0 35	23 11	0 26	20 25	17 11	16 49	16 20	19 18			n.a.
T 24	23 43	18 51	4 17	20 42	3 1	18 8	5 12	17 27	0 13	5 2	1 19	14 42	1 59	22 49	0 35	23 11	0 26	20 24	17 10	16 52	16 21	19 19			n.a.
W25	23 42	20 6	3 36	20 30	3 12	17 56	5 22	17 40	0 12	5 5	1 19	14 43	1 59	22 49	0 35	23 11	0 26	20 24	17 10	16 54	16 22	19 20			n.a.
T 26	23 42	20 29	2 47	20 21	3 22	17 45	5 31	17 52	0 11	5 8	1 19	14 44	1 59	22 49	0 35	23 11	0 26	20 23	17 9	16 56	16 23	19 20			n.a.
F 27	23 41	19 56	1 49	20 13	3 29	17 35	5 39	18 4	0 11	5 10	1 19	14 45	2 0	22 50	0 35	23 11	0 26	20 23	17 9	16 57	16 24	19 21			n.a.
S 28	23 39	18 30	0 46	20 7	3 33	17 25	5 46	18 16	0 10	5 13	1 20	14 46	2 0	22 50	0 35	23 11	0 26	20 22	17 9	16 58	16 25	19 22			n.a.
S 29	23 37	16 13	0s19	20 3	3 35	17 16	5 53	18 28	0 9	5 15	1 20	14 47	2 0	22 50	0 35	23 11	0 26	20 22	17 8	16 58	16 26	19 23			n.a.
M30	23 35	13 11	1 25	20 0	3 35	17 9	5 59	18 40	0 8	5 18	1 20	14 48	2 0	22 51	0 35	23 10	0 26	20 21	17 8	16 58	16 27	19 24			n.a.
T 31	23s32	9s31	2s28	20s 0	3n33	17s 2	6n 4	18s51	0n 8	5s20	1n20	14n49	2n 1	22n51	0n35	23s10	0n26	20s21	17s 8	16n57	16n28	19s25			n.a.

Julian Day Number = 1669526.5, Delta T = 03h21m19s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'42, Lahiri = - 5°54'42 Julian Calendar 1 Dec. 143 BCE == Greg. Calendar 28 Nov. 143 BCE

The year -142 astronomical counting style corresponds to year 143 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

JANUARY 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 27 17	7♑51'37	24♓31	22°R46	16°R40	24♏42	16♎37	26°R11	19°R26	5♑27	18♓18	13♌33	15♌ 9	22♐43	n.a.	W 1
T 2	6 31 13	8°52'34	7♈38	22♐13	16♐26	25°25	16°44	26♌ 8	19♋24	5°29	18°19	13°R34	15° 5	22°50	n.a.	T 2
F 3	6 35 10	9°53'28	21° 9	21°49	16°14	26° 9	16°50	26° 6	19°21	5°31	18°19	13°33	15° 2	22°57	n.a.	F 3
S 4	6 39 6	10°54'22	5♉ 6	21°34	16° 4	26°52	16°55	26° 3	19°19	5°33	18°20	13°31	14°59	23° 3	n.a.	S 4
S 5	6 43 3	11°55'13	19°29	21°D26	15°58	27°35	17° 1	26° 1	19°16	5°36	18°21	13°28	14°56	23°10	n.a.	S 5
M 6	6 46 59	12°56'03	4♊16	21°27	15°53	28°18	17° 7	25°58	19°14	5°38	18°21	13°23	14°53	23°17	n.a.	M 6
T 7	6 50 56	13°56'52	19°19	21°35	15°D51	29° 2	17°12	25°55	19°11	5°40	18°22	13°19	14°49	23°23	n.a.	T 7
W 8	6 54 52	14°57'39	4♋32	21°49	15°52	29°45	17°17	25°52	19° 8	5°42	18°23	13°15	14°46	23°30	n.a.	W 8
T 9	6 58 49	15°58'25	19°42	22°10	15°55	0♐28	17°23	25°49	19° 6	5°45	18°23	13°12	14°43	23°37	n.a.	T 9
F 10	7 2 46	16°59'10	4♌42	22°36	16° 0	1°12	17°27	25°46	19° 3	5°47	18°24	13°11	14°40	23°43	n.a.	F 10
S 11	7 6 42	17°59'52	19°21	23° 8	16° 8	1°55	17°32	25°43	19° 1	5°49	18°25	13°D11	14°37	23°50	n.a.	S 11
S 12	7 10 39	19° 0'34	3♍36	23°45	16°18	2°39	17°37	25°40	18°58	5°51	18°26	13°12	14°34	23°57	n.a.	S 12
M13	7 14 35	20° 1'14	17°23	24°26	16°30	3°22	17°41	25°36	18°55	5°54	18°27	13°13	14°30	24° 3	n.a.	M13
T 14	7 18 32	21° 1'53	0♎43	25°11	16°44	4° 6	17°45	25°33	18°53	5°56	18°27	13°15	14°27	24°10	n.a.	T 14
W15	7 22 28	22° 2'31	13°37	26° 0	17° 1	4°49	17°50	25°30	18°50	5°58	18°28	13°16	14°24	24°17	n.a.	W15
T 16	7 26 25	23° 3'07	26°11	26°53	17°19	5°33	17°53	25°26	18°47	6° 0	18°29	13°R16	14°21	24°24	n.a.	T 16
F 17	7 30 21	24° 3'42	8♏27	27°48	17°40	6°17	17°57	25°22	18°45	6° 2	18°30	13°15	14°18	24°30	n.a.	F 17
S 18	7 34 18	25° 4'16	20°31	28°47	18° 2	7° 0	18° 1	25°19	18°42	6° 5	18°31	13°13	14°15	24°37	n.a.	S 18
S 19	7 38 15	26° 4'48	2♐26	29°48	18°26	7°44	18° 4	25°15	18°40	6° 7	18°32	13°11	14°11	24°44	n.a.	S 19
M20	7 42 11	27° 5'19	14°16	0♑52	18°52	8°28	18° 7	25°11	18°37	6° 9	18°33	13° 9	14° 8	24°50	n.a.	M20
T 21	7 46 8	28° 5'49	26° 6	1°58	19°19	9°11	18°10	25° 7	18°34	6°11	18°34	13° 6	14° 5	24°57	n.a.	T 21
W22	7 50 4	29° 6'16	7♑57	3° 6	19°48	9°55	18°13	25° 3	18°32	6°13	18°35	13° 4	14° 2	25° 4	n.a.	W22
T 23	7 54 1	0♒ 6'42	19°52	4°17	20°19	10°39	18°16	24°59	18°29	6°15	18°36	13° 2	13°59	25°10	n.a.	T 23
F 24	7 57 57	1° 7'07	1♒53	5°29	20°51	11°23	18°18	24°55	18°27	6°18	18°37	13° 1	13°55	25°17	n.a.	F 24
S 25	8 1 54	2° 7'29	14° 2	6°43	21°25	12° 6	18°21	24°51	18°24	6°20	18°38	13°D 1	13°52	25°24	n.a.	S 25
S 26	8 5 50	3° 7'50	26°20	7°58	21°59	12°50	18°23	24°47	18°22	6°22	18°39	13° 1	13°49	25°30	n.a.	S 26
M27	8 9 47	4° 8'08	8♓50	9°16	22°36	13°34	18°25	24°43	18°19	6°24	18°40	13° 2	13°46	25°37	n.a.	M27
T 28	8 13 44	5° 8'25	21°32	10°34	23°13	14°18	18°27	24°38	18°17	6°26	18°41	13° 3	13°43	25°44	n.a.	T 28
W29	8 17 40	6° 8'39	4♈29	11°55	23°52	15° 2	18°28	24°34	18°14	6°28	18°42	13° 3	13°40	25°51	n.a.	W29
T 30	8 21 37	7° 8'52	17°42	13°16	24°32	15°46	18°29	24°30	18°12	6°30	18°43	13° 4	13°36	25°57	n.a.	T 30
F 31	8 25 33	8♒ 9'02	1♉13	14♑39	25♐13	16♐30	18♎31	24♌25	18♋ 9	6♑32	18♓44	13♌ 4	13♌33	26♐ 4	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	23s28	5s20	3s25	20s 2	3n29	16s56	6n 8	19s 3	0n 7	5s22	1n20	14n50	2n 1	22n52	0n35	23s10	0n26	20s20	17s 7	16n57	16n29	19s26			n.a.
T 2	23 25	0 49	4 13	20 6	3 23	16 50	6 12	19 14	0 6	5 24	1 21	14 51	2 1	22 52	0 35	23 10	0 26	20 19	17 7	16 56	16 30	19 27			n.a.
F 3	23 20	3n52	4 49	20 11	3 16	16 46	6 15	19 25	0 5	5 27	1 21	14 52	2 1	22 52	0 35	23 10	0 26	20 19	17 7	16 57	16 31	19 28			n.a.
S 4	23 15	8 31	5 9	20 18	3 9	16 43	6 18	19 36	0 5	5 29	1 21	14 53	2 2	22 53	0 35	23 10	0 26	20 18	17 6	16 57	16 31	19 29			n.a.
S 5	23 10	12 49	5 11	20 26	3 0	16 40	6 20	19 47	0 4	5 31	1 21	14 54	2 2	22 53	0 35	23 10	0 26	20 18	17 6	16 58	16 32	19 29			n.a.
M 6	23 4	16 27	4 52	20 36	2 51	16 38	6 21	19 57	0 3	5 33	1 21	14 55	2 2	22 54	0 35	23 10	0 25	20 17	17 6	16 59	16 33	19 30			n.a.
T 7	22 58	19 4	4 13	20 46	2 41	16 37	6 22	20 8	0 2	5 34	1 22	14 56	2 2	22 54	0 35	23 10	0 25	20 17	17 5	17 1	16 34	19 31			n.a.
W 8	22 52	20 22	3 16	20 57	2 30	16 37	6 22	20 18	0 2	5 36	1 22	14 58	2 3	22 54	0 35	23 10	0 25	20 16	17 5	17 2	16 35	19 32			n.a.
T 9	22 45	20 11	2 5	21 9	2 20	16 37	6 22	20 28	0 1	5 38	1 22	14 59	2 3	22 55	0 35	23 10	0 25	20 15	17 5	17 3	16 36	19 33			n.a.
F 10	22 37	18 33	0 46	21 21	2 9	16 39	6 21	20 38	0 0	5 40	1 22	15 0	2 3	22 55	0 35	23 10	0 25	20 15	17 4	17 3	16 37	19 34			n.a.
S 11	22 29	15 43	0n34	21 34	1 58	16 41	6 20	20 48	0s 1	5 41	1 23	15 1	2 3	22 55	0 35	23 9	0 25	20 14	17 4	17 3	16 38	19 35			n.a.
S 12	22 21	12 1	1 50	21 47	1 47	16 43	6 19	20 57	0 2	5 43	1 23	15 3	2 3	22 56	0 35	23 9	0 25	20 14	17 4	17 3	16 39	19 36			n.a.
M13	22 12	7 45	2 57	21 59	1 36	16 46	6 17	21 6	0 2	5 45	1 23	15 4	2 4	22 56	0 35	23 9	0 25	20 13	17 3	17 2	16 40	19 36			n.a.
T 14	22 3	3 16	3 53	22 12	1 25	16 50	6 15	21 15	0 3	5 46	1 23	15 5	2 4	22 57	0 35	23 9	0 25	20 12	17 3	17 2	16 41	19 37			n.a.
W15	21 53	1s14	4 34	22 24	1 15	16 54	6 12	21 24	0 4	5 47	1 23	15 7	2 4	22 57	0 35	23 9	0 25	20 12	17 3	17 2	16 42	19 38			n.a.
T 16	21 43	5 32	5 2	22 36	1 4	16 58	6 9	21 33	0 5	5 49	1 24	15 8	2 4	22 57	0 35	23 9	0 25	20 11	17 2	17 2	16 43	19 39			n.a.
F 17	21 32	9 31	5 14	22 48	0 54	17 3	6 6	21 42	0 6	5 50	1 24	15 10	2 5	22 58	0 35	23 9	0 25	20 10	17 2	17 2	16 44	19 40			n.a.
S 18	21 22	13 3	5 13	22 59	0 43	17 9	6 2	21 50	0 6	5 51	1 24	15 11	2 5	22 58	0 35	23 9	0 25	20 10	17 2	17 2	16 45	19 41			n.a.
S 19	21 10	16 1	4 58	23 9	0 33	17 15	5 59	21 58	0 7	5 52	1 24	15 12	2 5	22 58	0 35	23 9	0 25	20 9	17 2	17 3	16 45	19 42			n.a.
M20	20 59	18 18	4 30	23 19	0 23	17 21	5 55	22 6	0 8	5 53	1 24	15 14	2 5	22 59	0 35	23 9	0 25	20 9	17 1	17 4	16 46	19 42			n.a.
T 21	20 47	19 48	3 51	23 28	0 14	17 27	5 51	22 14	0 9	5 54	1 25	15 15	2 5	22 59	0 35	23 9	0 25	20 8	17 1	17 4	16 47	19 43			n.a.
W22	20 34	20 26	3 2	23 36	0 4	17 34	5 46	22 21	0 10	5 55	1 25	15 17	2 5	23 0	0 35	23 8	0 25	20 7	17 1	17 5	16 48	19 44			n.a.
T 23	20 21	20 10	2 5	23 43	0s 5	17 40	5 42	22 28	0 11	5 56	1 25	15 18	2 6	23 0	0 35	23 8	0 25	20 7	17 0	17 6	16 49	19 45			n.a.
F 24	20 8	18 58	1 1	23 49	0 14	17 47	5 37	22 35	0 12	5 57	1 25	15 20	2 6	23 0	0 35	23 8	0 25	20 6	17 0	17 6	16 50	19 46			n.a.
S 25	19 55	16 54	0s 6	23 55	0 22	17 54	5 32	22 42	0 12	5 57	1 26	15 22	2 6	23 1	0 35	23 8	0 25	20 5	17 0	17 6	16 51	19 46			n.a.
S 26	19 41	14 1	1 13	23 59	0 31	18 1	5 27	22 49	0 13	5 58	1 26	15 23	2 6	23 1	0 35	23 8	0 25	20 5	17 0	17 6	16 52	19 47			n.a.
M27	19 26	10 29	2 18	24 1	0 39	18 9	5 22	22 55	0 14	5 58	1 26	15 25	2 6	23 1	0 35	23 8	0 25	20 4	16 59	17 6	16 53	19 48			n.a.
T 28	19 12	6 25	3 18	24 3	0 46	18 16	5 16	23 1	0 15	5 59	1 26	15 26	2 6	23 2	0 35	23 8	0 25	20 3	16 59	17 5	16 54	19 49			n.a.
W29	18 57	2 0	4 9	24 4	0 54	18 23	5 11	23 7	0 16	5 59	1 26	15 28	2 7	23 2	0 35	23 8	0 25	20 3	16 59	17 5	16 55	19 50			n.a.
T 30	18 42	2n36	4 47	24 3	1 1	18 30	5 6	23 13	0 17	6 0	1 27	15 30	2 7	23 2	0 35	23 8	0 25	20 2	16 59	17 5	16 56	19 51			n.a.
F 31	18s26	7n10	5s11	24s 1	1s 8	18s38	5n 0	23s19	0s18	6s 0	1n27	15n31	2n 7	23n 3	0n35	23s 8	0n25	20s 1	16s58	17n 5	16n57	19s51			n.a.

Julian Day Number = 1669557.5, Delta T = 03h21m18s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'38, Lahiri = - 5°54'38 Julian Calendar 1 Jan. 142 BCE == Greg. Calendar 29 Dec. 143 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

FEBRUARY 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 30	9♒ 9'10	15♉ 2	16♑ 4	25♐55	17♐14	18♎32	24°R21	18°R 7	6♑34	18♓45	13°R 4	13♌30	26♐11	n.a.	S 1
S 2	8 33 26	10° 9'15	29°11	17°29	26°38	17°58	18°32	24♌16	18♋ 5	6°36	18°47	13♌ 4	13°27	26°17	n.a.	S 2
M 3	8 37 23	11° 9'19	13♊36	18°56	27°22	18°42	18°33	24°12	18° 2	6°38	18°48	13° 4	13°24	26°24	n.a.	M 3
T 4	8 41 19	12° 9'20	28°16	20°25	28° 7	19°26	18°34	24° 7	18° 0	6°40	18°49	13° 4	13°21	26°31	n.a.	T 4
W 5	8 45 16	13° 9'19	13♋ 4	21°54	28°53	20°10	18°34	24° 3	17°58	6°42	18°50	13°D 4	13°17	26°37	n.a.	W 5
T 6	8 49 13	14° 9'16	27°54	23°24	29°40	20°54	18°R34	23°58	17°55	6°44	18°51	13° 4	13°14	26°44	n.a.	T 6
F 7	8 53 9	15° 9'11	12♌39	24°56	0♑27	21°38	18°34	23°54	17°53	6°46	18°53	13°R 4	13°11	26°51	n.a.	F 7
S 8	8 57 6	16° 9'04	27°11	26°29	1°16	22°22	18°33	23°49	17°51	6°47	18°54	13° 4	13° 8	26°57	n.a.	S 8
S 9	9 1 2	17° 8'54	11♍24	28° 3	2° 5	23° 6	18°33	23°44	17°49	6°49	18°55	13° 4	13° 5	27° 4	n.a.	S 9
M10	9 4 59	18° 8'43	25°15	29°38	2°55	23°50	18°32	23°40	17°47	6°51	18°56	13° 3	13° 1	27°11	n.a.	M10
T 11	9 8 55	19° 8'29	8♎41	1♒15	3°46	24°35	18°31	23°35	17°44	6°53	18°58	13° 2	12°58	27°17	n.a.	T 11
W12	9 12 52	20° 8'14	21°43	2°53	4°38	25°19	18°30	23°30	17°42	6°55	18°59	13° 2	12°55	27°24	n.a.	W12
T 13	9 16 48	21° 7'57	4♏22	4°31	5°30	26° 3	18°29	23°26	17°40	6°56	19° 0	13° 1	12°52	27°31	n.a.	T 13
F 14	9 20 45	22° 7'39	16°43	6°11	6°23	26°47	18°28	23°21	17°38	6°58	19° 1	13°D 0	12°49	27°38	n.a.	F 14
S 15	9 24 41	23° 7'18	28°49	7°53	7°16	27°32	18°26	23°16	17°36	7° 0	19° 3	13° 0	12°46	27°44	n.a.	S 15
S 16	9 28 38	24° 6'56	10♐45	9°35	8°10	28°16	18°24	23°11	17°34	7° 2	19° 4	13° 1	12°42	27°51	n.a.	S 16
M17	9 32 35	25° 6'32	22°35	11°19	9° 5	29° 0	18°22	23° 7	17°32	7° 3	19° 5	13° 2	12°39	27°58	n.a.	M17
T 18	9 36 31	26° 6'05	4♑25	13° 4	10° 0	29°44	18°20	23° 2	17°30	7° 5	19° 7	13° 3	12°36	28° 4	n.a.	T 18
W19	9 40 28	27° 5'37	16°18	14°50	10°55	0♑29	18°18	22°57	17°29	7° 7	19° 8	13° 4	12°33	28°11	n.a.	W19
T 20	9 44 24	28° 5'07	28°18	16°37	11°52	1°13	18°15	22°53	17°27	7° 8	19° 9	13° 5	12°30	28°18	n.a.	T 20
F 21	9 48 21	29° 4'36	10♒27	18°26	12°48	1°57	18°12	22°48	17°25	7°10	19°11	13°R 6	12°27	28°24	n.a.	F 21
S 22	9 52 17	0♓ 4'01	22°49	20°16	13°45	2°42	18° 9	22°43	17°23	7°11	19°12	13° 6	12°23	28°31	n.a.	S 22
S 23	9 56 14	1° 3'25	5♓25	22° 8	14°43	3°26	18° 6	22°39	17°22	7°13	19°13	13° 5	12°20	28°38	n.a.	S 23
M24	10 0 10	2° 2'47	18°15	24° 0	15°41	4°11	18° 3	22°34	17°20	7°14	19°15	13° 3	12°17	28°44	n.a.	M24
T 25	10 4 7	3° 2'06	1♈19	25°54	16°39	4°55	18° 0	22°29	17°18	7°16	19°16	13° 0	12°14	28°51	n.a.	T 25
W26	10 8 4	4° 1'23	14°37	27°49	17°38	5°39	17°56	22°25	17°17	7°17	19°17	12°57	12°11	28°58	n.a.	W26
T 27	10 12 0	5° 0'38	28° 8	29°46	18°37	6°24	17°52	22°20	17°15	7°19	19°19	12°54	12° 7	29° 4	n.a.	T 27
F 28	10 15 57	5♓59'50	11♉52	1♓43	19♑37	7♑ 8	17♎48	22♌16	17♋14	7♑20	19♓20	12♌51	12♌ 4	29♐11	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s10	11n28	5s17	23s58	1s14	18s45	4n54	23s24	0s19	6s 0	1n27	15n33	2n 7	23n 3	0n35	23s 7	0n25	20s 1	16s58	17n 5	16n58	19s52		n.a.
S 2	17 54	15 14	5 5	23 53	1 20	18 52	4 48	23 29	0 20	6 0	1 27	15 34	2 7	23 3	0 35	23 7	0 25	20 0	16 58	17 5	16 58	19 53		n.a.
M 3	17 37	18 10	4 34	23 47	1 26	18 59	4 42	23 34	0 20	6 0	1 28	15 36	2 7	23 4	0 35	23 7	0 25	19 59	16 58	17 5	16 59	19 54		n.a.
T 4	17 21	19 58	3 44	23 39	1 32	19 5	4 37	23 38	0 21	6 0	1 28	15 38	2 7	23 4	0 35	23 7	0 25	19 59	16 57	17 5	17 0	19 54		n.a.
W 5	17 4	20 25	2 39	23 30	1 37	19 12	4 30	23 43	0 22	6 0	1 28	15 39	2 8	23 4	0 35	23 7	0 25	19 58	16 57	17 5	17 1	19 55		n.a.
T 6	16 46	19 27	1 23	23 19	1 42	19 18	4 24	23 47	0 23	6 0	1 28	15 41	2 8	23 4	0 35	23 7	0 25	19 57	16 57	17 5	17 2	19 56		n.a.
F 7	16 28	17 10	0 2	23 7	1 46	19 24	4 18	23 51	0 24	6 0	1 28	15 43	2 8	23 5	0 35	23 7	0 25	19 57	16 57	17 5	17 3	19 57		n.a.
S 8	16 10	13 48	1n18	22 54	1 50	19 30	4 12	23 54	0 25	5 59	1 29	15 44	2 8	23 5	0 35	23 7	0 25	19 56	16 57	17 5	17 4	19 58		n.a.
S 9	15 52	9 41	2 31	22 39	1 54	19 36	4 6	23 58	0 26	5 59	1 29	15 46	2 8	23 5	0 35	23 7	0 25	19 55	16 56	17 5	17 5	19 58		n.a.
M10	15 34	5 10	3 34	22 22	1 57	19 41	4 0	24 1	0 27	5 58	1 29	15 48	2 8	23 6	0 35	23 7	0 25	19 55	16 56	17 5	17 6	19 59		n.a.
T 11	15 15	0 32	4 22	22 4	2 0	19 46	3 53	24 4	0 28	5 58	1 29	15 49	2 8	23 6	0 35	23 7	0 25	19 54	16 56	17 6	17 7	20 0		n.a.
W12	14 56	3s59	4 56	21 44	2 3	19 51	3 47	24 6	0 29	5 57	1 30	15 51	2 8	23 6	0 35	23 6	0 25	19 53	16 56	17 6	17 8	20 1		n.a.
T 13	14 37	8 12	5 14	21 22	2 5	19 55	3 41	24 9	0 30	5 57	1 30	15 53	2 8	23 6	0 35	23 6	0 25	19 53	16 56	17 6	17 8	20 1		n.a.
F 14	14 18	11 58	5 17	20 59	2 6	19 59	3 35	24 11	0 31	5 56	1 30	15 54	2 8	23 7	0 35	23 6	0 25	19 52	16 56	17 6	17 9	20 2		n.a.
S 15	13 58	15 9	5 5	20 34	2 8	20 3	3 28	24 13	0 32	5 55	1 30	15 56	2 8	23 7	0 35	23 6	0 25	19 51	16 55	17 6	17 10	20 3		n.a.
S 16	13 38	17 40	4 41	20 7	2 8	20 6	3 22	24 15	0 33	5 54	1 30	15 58	2 9	23 7	0 35	23 6	0 25	19 51	16 55	17 6	17 11	20 4		n.a.
M17	13 18	19 26	4 5	19 38	2 9	20 9	3 16	24 16	0 34	5 53	1 31	15 59	2 9	23 7	0 35	23 6	0 25	19 50	16 55	17 6	17 12	20 4		n.a.
T 18	12 58	20 20	3 18	19 8	2 9	20 11	3 9	24 17	0 35	5 52	1 31	16 1	2 9	23 8	0 35	23 6	0 25	19 49	16 55	17 5	17 13	20 5		n.a.
W19	12 37	20 20	2 23	18 37	2 8	20 13	3 3	24 18	0 36	5 51	1 31	16 3	2 9	23 8	0 35	23 6	0 25	19 49	16 55	17 5	17 14	20 6		n.a.
T 20	12 16	19 25	1 21	18 3	2 7	20 14	2 57	24 19	0 37	5 50	1 31	16 4	2 9	23 8	0 35	23 6	0 25	19 48	16 55	17 5	17 15	20 6		n.a.
F 21	11 56	17 35	0 15	17 28	2 6	20 15	2 51	24 19	0 38	5 49	1 31	16 6	2 9	23 8	0 35	23 6	0 25	19 47	16 55	17 4	17 16	20 7		n.a.
S 22	11 35	14 54	0s54	16 51	2 4	20 16	2 44	24 20	0 39	5 47	1 32	16 7	2 9	23 9	0 35	23 6	0 25	19 47	16 54	17 5	17 17	20 8		n.a.
S 23	11 13	11 29	2 0	16 12	2 1	20 16	2 38	24 20	0 40	5 46	1 32	16 9	2 9	23 9	0 35	23 5	0 25	19 46	16 54	17 5	17 18	20 9		n.a.
M24	10 52	7 29	3 2	15 31	1 58	20 16	2 32	24 19	0 41	5 45	1 32	16 11	2 9	23 9	0 35	23 5	0 25	19 45	16 54	17 5	17 18	20 9		n.a.
T 25	10 30	3 4	3 56	14 49	1 54	20 15	2 26	24 19	0 42	5 43	1 32	16 12	2 9	23 9	0 35	23 5	0 25	19 45	16 54	17 6	17 19	20 10		n.a.
W26	10 9	1n34	4 37	14 5	1 50	20 14	2 19	24 18	0 43	5 42	1 32	16 14	2 9	23 9	0 35	23 5	0 25	19 44	16 54	17 7	17 20	20 11		n.a.
T 27	9 47	6 12	5 4	13 20	1 45	20 12	2 13	24 17	0 44	5 40	1 32	16 15	2 9	23 10	0 35	23 5	0 25	19 43	16 54	17 8	17 21	20 11		n.a.
F 28	9s25	10n35	5s15	12s32	1s40	20s10	2n 7	24s16	0s45	5s38	1n33	16n17	2n 9	23n10	0n35	23s 5	0n25	19s43	16s54	17n 9	17n22	20s12		n.a.

Julian Day Number = 1669588.5, Delta T = 03h21m17s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'34, Lahiri = - 5°54'33 Julian Calendar 1 Feb. 142 BCE == Greg. Calendar 29 Jan. 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

MARCH 142 BCE (-141) JC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 19 53	6♓59'00	25♉46	3♓42	20♑37	7♑53	17°R44	22°R11	17°R12	7♑22	19♓22	12°R50	12♌ 1	29♐18	n.a.	S 1
S 2	10 23 50	7°58'08	9♊49	5°42	21°37	8°37	17♎40	22♌ 7	17♋11	7°23	19°23	12°D49	11°58	29°24	n.a.	S 2
M 3	10 27 46	8°57'13	24° 1	7°43	22°38	9°21	17°36	22° 2	17°10	7°24	19°24	12♌50	11°55	29°31	n.a.	M 3
T 4	10 31 43	9°56'16	8♋19	9°45	23°39	10° 6	17°31	21°58	17° 8	7°26	19°26	12°51	11°52	29°38	n.a.	T 4
W 5	10 35 39	10°55'16	22°41	11°48	24°40	10°50	17°26	21°54	17° 7	7°27	19°27	12°53	11°48	29°44	n.a.	W 5
T 6	10 39 36	11°54'14	7♌ 4	13°52	25°41	11°35	17°21	21°49	17° 6	7°28	19°29	12°R54	11°45	29°51	n.a.	T 6
F 7	10 43 32	12°53'10	21°22	15°56	26°43	12°19	17°16	21°45	17° 5	7°29	19°30	12°54	11°42	29°58	n.a.	F 7
S 8	10 47 29	13°52'03	5♍32	18° 1	27°45	13° 4	17°11	21°41	17° 4	7°30	19°32	12°52	11°39	0♑ 5	n.a.	S 8
S 9	10 51 26	14°50'55	19°30	20° 6	28°48	13°48	17° 6	21°37	17° 3	7°32	19°33	12°49	11°36	0°11	n.a.	S 9
M10	10 55 22	15°49'44	3♎11	22°10	29°50	14°33	17° 0	21°33	17° 2	7°33	19°34	12°44	11°32	0°18	n.a.	M10
T 11	10 59 19	16°48'31	16°32	24°15	0♒53	15°17	16°55	21°29	17° 1	7°34	19°36	12°39	11°29	0°25	n.a.	T 11
W12	11 3 15	17°47'16	29°33	26°18	1°56	16° 2	16°49	21°25	17° 0	7°35	19°37	12°33	11°26	0°31	n.a.	W12
T 13	11 7 12	18°45'59	12♏14	28°21	3° 0	16°46	16°43	21°21	16°59	7°36	19°39	12°28	11°23	0°38	n.a.	T 13
F 14	11 11 8	19°44'41	24°37	0♈23	4° 4	17°30	16°37	21°17	16°58	7°37	19°40	12°23	11°20	0°45	n.a.	F 14
S 15	11 15 5	20°43'20	6♐45	2°22	5° 7	18°15	16°31	21°13	16°57	7°38	19°41	12°21	11°17	0°51	n.a.	S 15
S 16	11 19 1	21°41'58	18°42	4°20	6°12	18°59	16°25	21° 9	16°57	7°39	19°43	12°D19	11°13	0°58	n.a.	S 16
M17	11 22 58	22°40'34	0♑33	6°16	7°16	19°44	16°18	21° 6	16°56	7°40	19°44	12°20	11°10	1° 5	n.a.	M17
T 18	11 26 55	23°39'09	12°23	8° 9	8°20	20°28	16°12	21° 2	16°55	7°41	19°46	12°21	11° 7	1°11	n.a.	T 18
W19	11 30 51	24°37'41	24°18	9°59	9°25	21°13	16° 5	20°58	16°55	7°41	19°47	12°22	11° 4	1°18	n.a.	W19
T 20	11 34 48	25°36'12	6♒21	11°45	10°30	21°57	15°59	20°55	16°54	7°42	19°49	12°R24	11° 1	1°25	n.a.	T 20
F 21	11 38 44	26°34'41	18°38	13°28	11°35	22°42	15°52	20°52	16°54	7°43	19°50	12°24	10°58	1°31	n.a.	F 21
S 22	11 42 41	27°33'08	1♓10	15° 7	12°41	23°26	15°45	20°48	16°54	7°44	19°51	12°22	10°54	1°38	n.a.	S 22
S 23	11 46 37	28°31'34	14° 2	16°43	13°46	24°11	15°38	20°45	16°53	7°45	19°53	12°18	10°51	1°45	n.a.	S 23
M24	11 50 34	29°29'57	27°12	18°14	14°52	24°55	15°31	20°42	16°53	7°45	19°54	12°12	10°48	1°51	n.a.	M24
T 25	11 54 30	0♈28'19	10♈41	19°41	15°58	25°40	15°24	20°39	16°53	7°46	19°56	12° 5	10°45	1°58	n.a.	T 25
W26	11 58 27	1°26'38	24°25	21° 3	17° 4	26°24	15°17	20°36	16°53	7°46	19°57	11°57	10°42	2° 5	n.a.	W26
T 27	12 2 23	2°24'56	8♉23	22°21	18°10	27° 8	15°10	20°33	16°52	7°47	19°59	11°49	10°38	2°11	n.a.	T 27
F 28	12 6 20	3°23'11	22°28	23°34	19°16	27°53	15° 2	20°30	16°52	7°48	20° 0	11°42	10°35	2°18	n.a.	F 28
S 29	12 10 17	4°21'25	6♊38	24°42	20°22	28°37	14°55	20°27	16°D52	7°48	20° 1	11°37	10°32	2°25	n.a.	S 29
S 30	12 14 13	5°19'36	20°50	25°45	21°29	29°22	14°48	20°25	16°52	7°49	20° 3	11°34	10°29	2°31	n.a.	S 30
M31	12 18 10	6♈17'46	5♋ 0	26♈43	22♒36	0♒ 6	14♎40	20♌22	16♋53	7♑49	20♓ 4	11°D33	10♌26	2♑38	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	9s 3	14n27	5s 7	11s44	1s34	20s 7	2n 1	24s14	0s46	5s37	1n33	16n18	2n 9	23n10	0n35	23s 5	0n25	19s42	16s54	17n 9	17n23	20s13		n.a.	S 1
S 2	8 41	17 33	4 41	10 53	1 28	20 3	1 55	24 12	0 47	5 35	1 33	16 20	2 9	23 10	0 35	23 5	0 25	19 41	16 54	17 9	17 24	20 13		n.a.	S 2
M 3	8 18	19 38	3 57	10 1	1 21	20 0	1 49	24 10	0 48	5 33	1 33	16 21	2 9	23 10	0 35	23 5	0 25	19 41	16 54	17 9	17 25	20 14		n.a.	M 3
T 4	7 56	20 29	2 59	9 8	1 14	19 55	1 43	24 8	0 49	5 31	1 33	16 23	2 9	23 10	0 35	23 5	0 25	19 40	16 53	17 9	17 26	20 15		n.a.	T 4
W 5	7 33	19 59	1 49	8 13	1 6	19 50	1 37	24 5	0 50	5 29	1 33	16 24	2 9	23 10	0 35	23 5	0 25	19 40	16 53	17 8	17 27	20 15		n.a.	W 5
T 6	7 11	18 12	0 32	7 18	0 57	19 45	1 32	24 3	0 51	5 27	1 34	16 25	2 9	23 11	0 35	23 5	0 25	19 39	16 53	17 8	17 27	20 16		n.a.	T 6
F 7	6 48	15 16	0n46	6 21	0 48	19 39	1 26	24 0	0 52	5 25	1 34	16 27	2 9	23 11	0 35	23 5	0 25	19 38	16 53	17 8	17 28	20 17		n.a.	F 7
S 8	6 25	11 27	2 1	5 23	0 39	19 32	1 20	23 56	0 53	5 23	1 34	16 28	2 9	23 11	0 35	23 4	0 25	19 38	16 53	17 9	17 29	20 17		n.a.	S 8
S 9	6 2	7 4	3 7	4 24	0 29	19 25	1 15	23 53	0 54	5 21	1 34	16 29	2 9	23 11	0 35	23 4	0 25	19 37	16 53	17 9	17 30	20 18		n.a.	S 9
M10	5 39	2 24	4 1	3 25	0 18	19 18	1 9	23 49	0 55	5 19	1 34	16 31	2 9	23 11	0 35	23 4	0 25	19 37	16 53	17 11	17 31	20 19		n.a.	M10
T 11	5 16	2s16	4 40	2 26	0 8	19 9	1 3	23 45	0 56	5 16	1 34	16 32	2 9	23 11	0 35	23 4	0 25	19 36	16 53	17 12	17 32	20 19		n.a.	T 11
W12	4 53	6 43	5 3	1 26	0n 3	19 1	0 58	23 41	0 57	5 14	1 34	16 33	2 9	23 11	0 35	23 4	0 25	19 35	16 53	17 14	17 33	20 20		n.a.	W12
T 13	4 30	10 45	5 11	0 26	0 15	18 52	0 53	23 36	0 58	5 12	1 34	16 35	2 9	23 11	0 35	23 4	0 25	19 35	16 53	17 15	17 34	20 21		n.a.	T 13
F 14	4 6	14 13	5 4	0n33	0 26	18 42	0 47	23 32	0 59	5 9	1 35	16 36	2 9	23 11	0 35	23 4	0 25	19 34	16 53	17 17	17 35	20 21		n.a.	F 14
S 15	3 43	17 1	4 44	1 32	0 37	18 32	0 42	23 27	1 0	5 7	1 35	16 37	2 9	23 12	0 35	23 4	0 25	19 34	16 53	17 17	17 35	20 22		n.a.	S 15
S 16	3 20	19 3	4 11	2 29	0 49	18 21	0 37	23 22	1 1	5 4	1 35	16 38	2 9	23 12	0 34	23 4	0 25	19 33	16 53	17 18	17 36	20 23		n.a.	S 16
M17	2 56	20 15	3 28	3 26	1 0	18 9	0 32	23 16	1 2	5 2	1 35	16 39	2 9	23 12	0 34	23 4	0 25	19 32	16 53	17 18	17 37	20 23		n.a.	M17
T 18	2 33	20 32	2 36	4 22	1 12	17 58	0 26	23 11	1 3	4 59	1 35	16 40	2 8	23 12	0 34	23 4	0 25	19 32	16 53	17 17	17 38	20 24		n.a.	T 18
W19	2 9	19 55	1 37	5 15	1 23	17 45	0 21	23 5	1 5	4 56	1 35	16 42	2 8	23 12	0 34	23 4	0 25	19 31	16 53	17 17	17 39	20 24		n.a.	W19
T 20	1 46	18 22	0 33	6 8	1 33	17 32	0 17	22 59	1 6	4 54	1 35	16 43	2 8	23 12	0 34	23 4	0 25	19 31	16 53	17 17	17 40	20 25		n.a.	T 20
F 21	1 23	15 57	0s34	6 58	1 44	17 19	0 12	22 52	1 7	4 51	1 35	16 44	2 8	23 12	0 34	23 4	0 25	19 30	16 53	17 17	17 41	20 26		n.a.	F 21
S 22	0 59	12 44	1 40	7 46	1 53	17 5	0 7	22 46	1 8	4 48	1 35	16 45	2 8	23 12	0 34	23 4	0 25	19 30	16 53	17 17	17 42	20 26		n.a.	S 22
S 23	0 36	8 51	2 43	8 32	2 3	16 51	0 2	22 39	1 9	4 46	1 35	16 46	2 8	23 12	0 34	23 4	0 25	19 29	16 53	17 18	17 42	20 27		n.a.	S 23
M24	0 12	4 27	3 38	9 15	2 11	16 36	0s 2	22 32	1 10	4 43	1 35	16 47	2 8	23 12	0 34	23 4	0 25	19 29	16 53	17 20	17 43	20 28		n.a.	M24
T 25	0n11	0n15	4 22	9 56	2 20	16 21	0 7	22 25	1 11	4 40	1 35	16 47	2 8	23 12	0 34	23 4	0 25	19 28	16 53	17 22	17 44	20 28		n.a.	T 25
W26	0 35	5 2	4 53	10 34	2 27	16 5	0 11	22 17	1 12	4 37	1 35	16 48	2 8	23 12	0 34	23 4	0 25	19 28	16 53	17 24	17 45	20 29		n.a.	W26
T 27	0 58	9 37	5 6	11 10	2 33	15 48	0 16	22 10	1 13	4 34	1 35	16 49	2 8	23 12	0 34	23 4	0 25	19 27	16 54	17 26	17 46	20 29		n.a.	T 27
F 28	1 22	13 44	5 1	11 43	2 39	15 32	0 20	22 2	1 14	4 32	1 35	16 50	2 8	23 12	0 34	23 3	0 25	19 27	16 54	17 28	17 47	20 30		n.a.	F 28
S 29	1 45	17 6	4 38	12 13	2 44	15 15	0 24	21 54	1 15	4 29	1 35	16 51	2 8	23 12	0 34	23 3	0 25	19 26	16 54	17 30	17 48	20 30		n.a.	S 29
S 30	2 8	19 26	3 58	12 40	2 48	14 57	0 28	21 46	1 16	4 26	1 35	16 52	2 7	23 12	0 34	23 3	0 25	19 26	16 54	17 31	17 49	20 31		n.a.	S 30
M31	2n32	20n34	3s 3	13n 4	2n51	14s39	0s32	21s37	1s17	4s23	1n35	16n52	2n 7	23n12	0n34	23s 3	0n25	19s25	16s54	17n31	17n49	20s32		n.a.	M31

Julian Day Number = 1669616.5, Delta T = 03h21m16s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'30, Lahiri = - 5°54'29 Julian Calendar 1 March 142 BCE == Greg. Calendar 26 Feb. 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

APRIL 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 22 6	7♈15'53	19♋ 8	27♈36	23♒42	0♒50	14°R33	20°R20	16♋53	7♑50	20♓ 5	11♌33	10♌23	2♑45	n.a.	T 1
W 2	12 26 3	8°13'58	3♌11	28°25	24°49	1°35	14♎25	20♌17	16°53	7°50	20° 7	11°34	10°19	2°51	n.a.	W 2
T 3	12 29 59	9°12'01	17°10	29° 7	25°56	2°19	14°18	20°15	16°53	7°50	20° 8	11°R34	10°16	2°58	n.a.	T 3
F 4	12 33 56	10°10'02	1♍ 2	29°45	27° 4	3° 3	14°10	20°13	16°53	7°51	20°10	11°32	10°13	3° 5	n.a.	F 4
S 5	12 37 52	11° 8'01	14°46	0♉18	28°11	3°47	14° 2	20°11	16°54	7°51	20°11	11°28	10°10	3°11	n.a.	S 5
S 6	12 41 49	12° 5'58	28°20	0°45	29°18	4°32	13°55	20° 9	16°54	7°51	20°12	11°22	10° 7	3°18	n.a.	S 6
M 7	12 45 46	13° 3'53	11♎41	1° 6	0♓26	5°16	13°47	20° 7	16°55	7°51	20°14	11°13	10° 4	3°25	n.a.	M 7
T 8	12 49 42	14° 1'47	24°48	1°23	1°34	6° 0	13°39	20° 5	16°55	7°52	20°15	11° 3	10° 0	3°31	n.a.	T 8
W 9	12 53 39	14°59'39	7♏39	1°34	2°41	6°44	13°32	20° 3	16°56	7°52	20°16	10°52	9°57	3°38	n.a.	W 9
T 10	12 57 35	15°57'30	20°13	1°40	3°49	7°28	13°24	20° 1	16°56	7°52	20°18	10°41	9°54	3°45	n.a.	T 10
F 11	13 1 32	16°55'19	2♐33	1°R41	4°57	8°12	13°17	20° 0	16°57	7°52	20°19	10°32	9°51	3°51	n.a.	F 11
S 12	13 5 28	17°53'07	14°39	1°37	6° 5	8°56	13° 9	19°58	16°58	7°52	20°20	10°25	9°48	3°58	n.a.	S 12
S 13	13 9 25	18°50'53	26°35	1°29	7°14	9°40	13° 1	19°57	16°59	7°52	20°21	10°20	9°44	4° 5	n.a.	S 13
M14	13 13 21	19°48'39	8♑26	1°16	8°22	10°24	12°54	19°56	16°59	7°R52	20°23	10°18	9°41	4°11	n.a.	M14
T 15	13 17 18	20°46'23	20°16	0°58	9°30	11° 8	12°46	19°55	17° 0	7°52	20°24	10°D17	9°38	4°18	n.a.	T 15
W16	13 21 15	21°44'05	2♒10	0°37	10°39	11°52	12°39	19°54	17° 1	7°52	20°25	10°17	9°35	4°25	n.a.	W16
T 17	13 25 11	22°41'47	14°14	0°12	11°47	12°36	12°31	19°53	17° 2	7°52	20°26	10°R17	9°32	4°32	n.a.	T 17
F 18	13 29 8	23°39'27	26°33	29♈45	12°56	13°20	12°24	19°52	17° 3	7°52	20°28	10°16	9°29	4°38	n.a.	F 18
S 19	13 33 4	24°37'07	9♓12	29°15	14° 5	14° 4	12°17	19°51	17° 4	7°52	20°29	10°13	9°25	4°45	n.a.	S 19
S 20	13 37 1	25°34'45	22°13	28°42	15°14	14°48	12° 9	19°50	17° 6	7°51	20°30	10° 8	9°22	4°52	n.a.	S 20
M21	13 40 57	26°32'21	5♈39	28° 9	16°23	15°32	12° 2	19°50	17° 7	7°51	20°31	9°59	9°19	4°58	n.a.	M21
T 22	13 44 54	27°29'57	19°27	27°34	17°32	16°15	11°55	19°49	17° 8	7°51	20°33	9°49	9°16	5° 5	n.a.	T 22
W23	13 48 50	28°27'31	3♉36	27° 0	18°41	16°59	11°48	19°49	17° 9	7°51	20°34	9°38	9°13	5°12	n.a.	W23
T 24	13 52 47	29°25'05	17°59	26°26	19°50	17°43	11°41	19°49	17°11	7°50	20°35	9°27	9° 9	5°18	n.a.	T 24
F 25	13 56 43	0♉22'36	2♊31	25°52	20°59	18°26	11°34	19°49	17°12	7°50	20°36	9°17	9° 6	5°25	n.a.	F 25
S 26	14 0 40	1°20'07	17° 5	25°21	22° 8	19°10	11°27	19°D49	17°14	7°50	20°37	9° 9	9° 3	5°32	n.a.	S 26
S 27	14 4 37	2°17'36	1♋34	24°51	23°18	19°53	11°20	19°49	17°15	7°49	20°38	9° 4	9° 0	5°38	n.a.	S 27
M28	14 8 33	3°15'04	15°54	24°24	24°27	20°37	11°14	19°49	17°17	7°49	20°39	9° 2	8°57	5°45	n.a.	M28
T 29	14 12 30	4°12'30	0♌ 4	24° 0	25°37	21°20	11° 7	19°49	17°18	7°48	20°40	9° 1	8°54	5°52	n.a.	T 29
W30	14 16 26	5♉ 9'55	14♌ 1	23♈39	26♓46	22♒ 4	11♎ 1	19♌49	17♋20	7♑48	20♓42	9♌ 1	8♌50	5♑58	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n55	20n23	1s57	13n26	2n53	14s20	0s36	21s28	1s19	4s20	1n35	16n53	2n 7	23n12	0n34	23s 3	0n25	19s25	16s54	17n31	17n50	20s32		n.a.
W 2	3 18	18 56	0 45	13 44	2 54	14 1	0 40	21 20	1 20	4 17	1 35	16 54	2 7	23 12	0 34	23 3	0 25	19 24	16 54	17 31	17 51	20 33		n.a.
T 3	3 41	16 21	0n30	14 0	2 54	13 42	0 44	21 11	1 21	4 14	1 35	16 54	2 7	23 12	0 34	23 3	0 25	19 24	16 54	17 31	17 52	20 33		n.a.
F 4	4 4	12 49	1 42	14 13	2 53	13 22	0 47	21 1	1 22	4 11	1 35	16 55	2 7	23 12	0 34	23 3	0 25	19 23	16 54	17 31	17 53	20 34		n.a.
S 5	4 27	8 38	2 48	14 22	2 51	13 2	0 51	20 52	1 23	4 8	1 35	16 56	2 7	23 11	0 34	23 3	0 25	19 23	16 54	17 32	17 54	20 34		n.a.
S 6	4 50	4 4	3 43	14 29	2 48	12 42	0 54	20 42	1 24	4 5	1 35	16 56	2 7	23 11	0 34	23 3	0 25	19 23	16 55	17 34	17 55	20 35		n.a.
M 7	5 13	0s37	4 25	14 32	2 43	12 21	0 58	20 32	1 25	4 2	1 35	16 57	2 7	23 11	0 34	23 3	0 25	19 22	16 55	17 36	17 56	20 35		n.a.
T 8	5 36	5 12	4 51	14 33	2 38	11 59	1 1	20 22	1 26	3 59	1 35	16 57	2 6	23 11	0 34	23 3	0 25	19 22	16 55	17 39	17 56	20 36		n.a.
W 9	5 58	9 27	5 3	14 30	2 31	11 38	1 4	20 12	1 27	3 56	1 35	16 57	2 6	23 11	0 34	23 3	0 25	19 21	16 55	17 42	17 57	20 37		n.a.
T 10	6 21	13 12	4 59	14 25	2 23	11 16	1 7	20 2	1 28	3 54	1 35	16 58	2 6	23 11	0 34	23 3	0 25	19 21	16 55	17 45	17 58	20 37		n.a.
F 11	6 43	16 18	4 42	14 17	2 14	10 54	1 10	19 51	1 29	3 51	1 35	16 58	2 6	23 11	0 34	23 3	0 25	19 21	16 55	17 48	17 59	20 38		n.a.
S 12	7 6	18 39	4 11	14 6	2 3	10 31	1 13	19 41	1 30	3 48	1 35	16 59	2 6	23 11	0 34	23 3	0 25	19 20	16 55	17 50	18 0	20 38		n.a.
S 13	7 28	20 9	3 31	13 52	1 52	10 8	1 16	19 30	1 31	3 45	1 35	16 59	2 6	23 11	0 34	23 3	0 25	19 20	16 56	17 51	18 1	20 39		n.a.
M14	7 50	20 46	2 41	13 36	1 40	9 45	1 19	19 19	1 32	3 42	1 35	16 59	2 6	23 11	0 34	23 3	0 25	19 19	16 56	17 52	18 2	20 39		n.a.
T 15	8 12	20 26	1 45	13 17	1 26	9 21	1 21	19 8	1 34	3 39	1 35	16 59	2 6	23 10	0 34	23 3	0 25	19 19	16 56	17 52	18 2	20 40		n.a.
W16	8 34	19 12	0 43	12 56	1 12	8 57	1 24	18 56	1 35	3 36	1 34	17 0	2 5	23 10	0 34	23 3	0 25	19 19	16 56	17 52	18 3	20 40		n.a.
T 17	8 56	17 5	0s21	12 33	0 57	8 33	1 26	18 45	1 36	3 33	1 34	17 0	2 5	23 10	0 34	23 3	0 25	19 18	16 56	17 52	18 4	20 41		n.a.
F 18	9 17	14 8	1 25	12 9	0 41	8 8	1 29	18 33	1 37	3 31	1 34	17 0	2 5	23 10	0 34	23 3	0 25	19 18	16 56	17 52	18 5	20 41		n.a.
S 19	9 39	10 29	2 27	11 42	0 24	7 44	1 31	18 21	1 38	3 28	1 34	17 0	2 5	23 10	0 34	23 3	0 25	19 18	16 57	17 53	18 6	20 42		n.a.
S 20	10 0	6 13	3 23	11 15	0 7	7 19	1 33	18 9	1 39	3 25	1 34	17 0	2 5	23 10	0 34	23 3	0 25	19 17	16 57	17 54	18 7	20 42		n.a.
M21	10 21	1 32	4 9	10 47	0s10	6 54	1 35	17 57	1 40	3 22	1 34	17 0	2 5	23 9	0 34	23 3	0 25	19 17	16 57	17 57	18 8	20 43		n.a.
T 22	10 42	3n21	4 43	10 19	0 27	6 28	1 37	17 45	1 41	3 20	1 34	17 0	2 5	23 9	0 34	23 3	0 25	19 17	16 57	17 59	18 8	20 43		n.a.
W23	11 3	8 10	4 59	9 50	0 44	6 3	1 39	17 32	1 42	3 17	1 34	17 0	2 4	23 9	0 34	23 3	0 25	19 17	16 57	18 2	18 9	20 44		n.a.
T 24	11 23	12 37	4 58	9 22	1 1	5 37	1 41	17 20	1 43	3 14	1 33	17 0	2 4	23 9	0 34	23 3	0 25	19 16	16 58	18 5	18 10	20 44		n.a.
F 25	11 44	16 22	4 37	8 54	1 18	5 11	1 42	17 7	1 44	3 12	1 33	17 0	2 4	23 9	0 34	23 3	0 25	19 16	16 58	18 8	18 11	20 44		n.a.
S 26	12 4	19 7	3 58	8 27	1 34	4 44	1 44	16 54	1 45	3 9	1 33	17 0	2 4	23 8	0 34	23 3	0 25	19 16	16 58	18 10	18 12	20 45		n.a.
S 27	12 24	20 38	3 4	8 2	1 49	4 18	1 45	16 42	1 46	3 7	1 33	17 0	2 4	23 8	0 34	23 3	0 25	19 16	16 58	18 11	18 13	20 45		n.a.
M28	12 44	20 47	1 59	7 38	2 4	3 51	1 47	16 28	1 47	3 4	1 33	17 0	2 4	23 8	0 33	23 3	0 25	19 15	16 59	18 12	18 13	20 46		n.a.
T 29	13 4	19 36	0 47	7 17	2 18	3 25	1 48	16 15	1 48	3 2	1 33	16 59	2 3	23 8	0 33	23 3	0 25	19 15	16 59	18 12	18 14	20 46		n.a.
W30	13n23	17n14	0n26	6n57	2s31	2s58	1s49	16s 2	1s49	2s59	1n32	16n59	2n 3	23n 8	0n33	23s 3	0n25	19s15	16s59	18n12	18n15	20s47		n.a.

Julian Day Number = 1669647.5, Delta T = 03h21m16s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'26, Lahiri = - 5°54'25 Julian Calendar 1 Apr. 142 BCE == Greg. Calendar 29 March 142 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

MAY 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 20 23	6♉ 7'18	27♌45	23°R22	27♓56	22♒47	10°R54	19♌50	17♋22	7°R47	20♓43	9°R 0	8♌47	6♑ 5	n.a.	T 1
F 2	14 24 19	7° 4'40	11♍19	23♈ 9	29° 6	23°30	10♎48	19°50	17°23	7♑47	20°44	8♌58	8°44	6°12	n.a.	F 2
S 3	14 28 16	8° 2'01	24°41	23° 0	0♈15	24°13	10°42	19°51	17°25	7°46	20°45	8°53	8°41	6°18	n.a.	S 3
S 4	14 32 12	8°59'21	7♎51	22°55	1°25	24°56	10°36	19°52	17°27	7°46	20°46	8°45	8°38	6°25	n.a.	S 4
M 5	14 36 9	9°56'39	20°51	22°D54	2°35	25°39	10°30	19°53	17°29	7°45	20°47	8°34	8°35	6°32	n.a.	M 5
T 6	14 40 6	10°53'57	3♏38	22°58	3°45	26°22	10°24	19°54	17°31	7°44	20°48	8°22	8°31	6°38	n.a.	T 6
W 7	14 44 2	11°51'13	16°14	23° 7	4°55	27° 5	10°19	19°55	17°33	7°43	20°49	8° 9	8°28	6°45	n.a.	W 7
T 8	14 47 59	12°48'29	28°37	23°20	6° 5	27°48	10°13	19°56	17°35	7°43	20°50	7°56	8°25	6°52	n.a.	T 8
F 9	14 51 55	13°45'44	10♐48	23°37	7°15	28°31	10° 8	19°57	17°37	7°42	20°51	7°45	8°22	6°58	n.a.	F 9
S 10	14 55 52	14°42'59	22°49	23°59	8°25	29°14	10° 3	19°59	17°39	7°41	20°52	7°36	8°19	7° 5	n.a.	S 10
S 11	14 59 48	15°40'13	4♑42	24°26	9°36	29°56	9°57	20° 0	17°41	7°40	20°52	7°30	8°15	7°12	n.a.	S 11
M12	15 3 45	16°37'26	16°31	24°56	10°46	0♓39	9°53	20° 2	17°43	7°40	20°53	7°26	8°12	7°18	n.a.	M12
T 13	15 7 42	17°34'39	28°19	25°31	11°56	1°21	9°48	20° 3	17°45	7°39	20°54	7°25	8° 9	7°25	n.a.	T 13
W14	15 11 38	18°31'52	10♒13	26°11	13° 7	2° 4	9°43	20° 5	17°48	7°38	20°55	7°D24	8° 6	7°32	n.a.	W14
T 15	15 15 35	19°29'04	22°16	26°54	14°17	2°46	9°39	20° 7	17°50	7°37	20°56	7°R24	8° 3	7°38	n.a.	T 15
F 16	15 19 31	20°26'16	4♓35	27°41	15°28	3°28	9°34	20° 9	17°52	7°36	20°57	7°24	8° 0	7°45	n.a.	F 16
S 17	15 23 28	21°23'27	17°14	28°32	16°38	4°11	9°30	20°11	17°55	7°35	20°58	7°21	7°56	7°52	n.a.	S 17
S 18	15 27 24	22°20'38	0♈18	29°27	17°49	4°53	9°26	20°13	17°57	7°34	20°58	7°16	7°53	7°58	n.a.	S 18
M19	15 31 21	23°17'49	13°49	0♉26	19° 0	5°35	9°22	20°15	18° 0	7°33	20°59	7° 9	7°50	8° 5	n.a.	M19
T 20	15 35 17	24°14'59	27°47	1°28	20°10	6°17	9°19	20°18	18° 2	7°32	21° 0	7° 0	7°47	8°12	n.a.	T 20
W21	15 39 14	25°12'10	12♉11	2°34	21°21	6°58	9°15	20°20	18° 5	7°31	21° 1	6°50	7°44	8°18	n.a.	W21
T 22	15 43 11	26° 9'20	26°53	3°44	22°32	7°40	9°12	20°23	18° 7	7°30	21° 1	6°40	7°40	8°25	n.a.	T 22
F 23	15 47 7	27° 6'30	11♊47	4°57	23°43	8°22	9° 9	20°25	18°10	7°29	21° 2	6°30	7°37	8°32	n.a.	F 23
S 24	15 51 4	28° 3'39	26°43	6°14	24°54	9° 3	9° 6	20°28	18°13	7°27	21° 3	6°23	7°34	8°38	n.a.	S 24
S 25	15 55 0	29° 0'48	11♋33	7°34	26° 5	9°45	9° 3	20°31	18°15	7°26	21° 3	6°19	7°31	8°45	n.a.	S 25
M26	15 58 57	29°57'57	26°11	8°58	27°16	10°26	9° 0	20°34	18°18	7°25	21° 4	6°17	7°28	8°52	n.a.	M26
T 27	16 2 53	0♊55'05	10♌31	10°25	28°27	11° 7	8°58	20°37	18°21	7°24	21° 5	6°D16	7°25	8°58	n.a.	T 27
W28	16 6 50	1°52'12	24°33	11°55	29°38	11°48	8°55	20°40	18°24	7°23	21° 5	6°17	7°21	9° 5	n.a.	W28
T 29	16 10 46	2°49'19	8♍16	13°29	0♉49	12°29	8°53	20°43	18°26	7°21	21° 6	6°R17	7°18	9°12	n.a.	T 29
F 30	16 14 43	3°46'25	21°40	15° 5	2° 1	13°10	8°51	20°46	18°29	7°20	21° 6	6°15	7°15	9°18	n.a.	F 30
S 31	16 18 40	4♊43'31	4♎49	16♉45	3♉12	13♓51	8♎49	20♌50	18♋32	7♑19	21♓ 7	6♌12	7♌12	9♑25	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	13n43	13n55	1n37	6n39	2s43	2s31	1s50	15s49	1s50	2s57	1n32	16n59	2n 3	23n 7	0n33	23s 3	0n25	19s15	16s59	18n13	18n16	20s47			n.a.
F 2	14 2	9 54	2 42	6 24	2 54	2 4	1 51	15 35	1 51	2 55	1 32	16 58	2 3	23 7	0 33	23 3	0 25	19 14	17 0	18 13	18 17	20 48			n.a.
S 3	14 21	5 26	3 36	6 12	3 4	1 37	1 52	15 22	1 52	2 53	1 32	16 58	2 3	23 7	0 33	23 3	0 25	19 14	17 0	18 15	18 18	20 48			n.a.
S 4	14 39	0 48	4 18	6 2	3 12	1 9	1 53	15 8	1 53	2 50	1 32	16 58	2 3	23 7	0 33	23 4	0 25	19 14	17 0	18 17	18 19	20 49			n.a.
M 5	14 58	3s49	4 46	5 55	3 20	0 42	1 54	14 54	1 54	2 48	1 31	16 57	2 3	23 6	0 33	23 4	0 25	19 14	17 0	18 19	18 19	20 49			n.a.
T 6	15 16	8 11	4 59	5 50	3 26	0 14	1 54	14 40	1 55	2 46	1 31	16 57	2 2	23 6	0 33	23 4	0 25	19 14	17 1	18 23	18 20	20 49			n.a.
W 7	15 34	12 8	4 57	5 48	3 32	0n13	1 55	14 26	1 56	2 44	1 31	16 56	2 2	23 6	0 33	23 4	0 25	19 14	17 1	18 26	18 21	20 50			n.a.
T 8	15 51	15 30	4 41	5 49	3 36	0 41	1 55	14 12	1 57	2 42	1 31	16 56	2 2	23 5	0 33	23 4	0 25	19 13	17 1	18 29	18 22	20 50			n.a.
F 9	16 9	18 9	4 12	5 53	3 39	1 9	1 56	13 58	1 58	2 40	1 30	16 55	2 2	23 5	0 33	23 4	0 25	19 13	17 1	18 32	18 23	20 51			n.a.
S 10	16 26	19 58	3 33	5 59	3 41	1 36	1 56	13 44	1 59	2 38	1 30	16 55	2 2	23 5	0 33	23 4	0 25	19 13	17 2	18 35	18 24	20 51			n.a.
S 11	16 43	20 54	2 44	6 8	3 43	2 4	1 56	13 30	2 0	2 37	1 30	16 54	2 2	23 5	0 33	23 4	0 25	19 13	17 2	18 36	18 24	20 51			n.a.
M12	17 0	20 53	1 48	6 19	3 43	2 32	1 56	13 15	2 1	2 35	1 30	16 53	2 1	23 4	0 33	23 4	0 25	19 13	17 2	18 37	18 25	20 52			n.a.
T 13	17 16	19 57	0 48	6 32	3 42	3 0	1 56	13 1	2 2	2 33	1 30	16 53	2 1	23 4	0 33	23 4	0 25	19 13	17 3	18 38	18 26	20 52			n.a.
W14	17 32	18 7	0s15	6 48	3 40	3 27	1 56	12 46	2 3	2 32	1 29	16 52	2 1	23 4	0 33	23 4	0 25	19 13	17 3	18 38	18 27	20 53			n.a.
T 15	17 48	15 29	1 18	7 6	3 38	3 55	1 56	12 32	2 4	2 30	1 29	16 51	2 1	23 3	0 33	23 4	0 25	19 13	17 3	18 38	18 28	20 53			n.a.
F 16	18 4	12 6	2 19	7 26	3 34	4 23	1 56	12 17	2 5	2 29	1 29	16 50	2 1	23 3	0 33	23 4	0 25	19 13	17 3	18 38	18 29	20 53			n.a.
S 17	18 19	8 5	3 15	7 48	3 30	4 50	1 55	12 3	2 6	2 27	1 28	16 50	2 1	23 3	0 33	23 4	0 25	19 13	17 4	18 38	18 29	20 54			n.a.
S 18	18 34	3 35	4 2	8 12	3 25	5 18	1 55	11 48	2 7	2 26	1 28	16 49	2 1	23 2	0 33	23 4	0 25	19 13	17 4	18 40	18 30	20 54			n.a.
M19	18 48	1n15	4 38	8 38	3 20	5 46	1 54	11 33	2 8	2 25	1 28	16 48	2 0	23 2	0 33	23 4	0 25	19 13	17 4	18 42	18 31	20 54			n.a.
T 20	19 3	6 10	4 58	9 6	3 14	6 13	1 54	11 18	2 9	2 23	1 28	16 47	2 0	23 2	0 33	23 4	0 25	19 13	17 5	18 44	18 32	20 55			n.a.
W21	19 17	10 53	5 1	9 35	3 7	6 40	1 53	11 3	2 10	2 22	1 27	16 46	2 0	23 1	0 33	23 4	0 25	19 13	17 5	18 47	18 33	20 55			n.a.
T 22	19 31	15 5	4 44	10 6	2 59	7 8	1 52	10 48	2 11	2 21	1 27	16 45	2 0	23 1	0 33	23 4	0 25	19 13	17 5	18 49	18 34	20 56			n.a.
F 23	19 44	18 22	4 8	10 38	2 51	7 35	1 52	10 33	2 12	2 20	1 27	16 44	2 0	23 0	0 33	23 5	0 25	19 13	17 6	18 51	18 34	20 56			n.a.
S 24	19 57	20 26	3 14	11 12	2 42	8 2	1 51	10 18	2 13	2 19	1 27	16 43	2 0	23 0	0 33	23 5	0 25	19 13	17 6	18 53	18 35	20 56			n.a.
S 25	20 10	21 5	2 8	11 47	2 33	8 29	1 50	10 3	2 13	2 18	1 26	16 42	2 0	23 0	0 33	23 5	0 25	19 13	17 6	18 54	18 36	20 57			n.a.
M26	20 22	20 17	0 54	12 23	2 23	8 56	1 49	9 48	2 14	2 17	1 26	16 41	1 59	22 59	0 33	23 5	0 25	19 13	17 7	18 55	18 37	20 57			n.a.
T 27	20 34	18 10	0n23	13 0	2 13	9 22	1 48	9 33	2 15	2 17	1 26	16 40	1 59	22 59	0 33	23 5	0 25	19 13	17 7	18 55	18 38	20 57			n.a.
W28	20 46	14 59	1 36	13 38	2 3	9 49	1 46	9 18	2 16	2 16	1 25	16 39	1 59	22 58	0 33	23 5	0 25	19 13	17 7	18 55	18 38	20 58			n.a.
T 29	20 58	11 4	2 42	14 17	1 52	10 15	1 45	9 3	2 17	2 16	1 25	16 38	1 59	22 58	0 33	23 5	0 25	19 13	17 8	18 55	18 39	20 58			n.a.
F 30	21 9	6 40	3 38	14 56	1 41	10 41	1 44	8 48	2 18	2 15	1 25	16 36	1 59	22 58	0 33	23 5	0 25	19 13	17 8	18 55	18 40	20 58			n.a.
S 31	21n19	2n 3	4n21	15n36	1s30	11n 7	1s42	8s33	2s19	2s15	1n25	16n35	1n59	22n57	0n33	23s 5	0n25	19s13	17s 8	18n56	18n41	20s58			n.a.

Julian Day Number = 1669677.5, Delta T = 03h21m15s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'22, Lahiri = - 5°54'21 Julian Calendar 1 May 142 BCE == Greg. Calendar 28 Apr. 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

JUNE 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 22 36	5♊40'37	17♎43	18♉28	4♉23	14♓32	8°R48	20♌53	18♋35	7°R17	21♓ 7	6°R 6	7♌ 9	9♑31	n.a.	S 1
M 2	16 26 33	6°37'42	0♏25	20°15	5°34	15°12	8♎46	20°57	18°38	7♑16	21° 8	5♌58	7° 6	9°38	n.a.	M 2
T 3	16 30 29	7°34'48	12°55	22° 4	6°46	15°53	8°45	21° 0	18°41	7°15	21° 8	5°48	7° 2	9°45	n.a.	T 3
W 4	16 34 26	8°31'53	25°14	23°56	7°57	16°33	8°44	21° 4	18°44	7°13	21° 9	5°38	6°59	9°51	n.a.	W 4
T 5	16 38 22	9°28'58	7♐24	25°50	9° 9	17°13	8°43	21° 8	18°47	7°12	21° 9	5°28	6°56	9°58	n.a.	T 5
F 6	16 42 19	10°26'04	19°26	27°48	10°20	17°53	8°43	21°12	18°50	7°11	21°10	5°19	6°53	10° 5	n.a.	F 6
S 7	16 46 15	11°23'10	1♑21	29°47	11°32	18°33	8°42	21°16	18°53	7° 9	21°10	5°12	6°50	10°11	n.a.	S 7
S 8	16 50 12	12°20'16	13°10	1♊49	12°43	19°13	8°42	21°20	18°57	7° 8	21°10	5° 7	6°46	10°18	n.a.	S 8
M 9	16 54 9	13°17'22	24°58	3°53	13°55	19°53	8°D42	21°24	19° 0	7° 6	21°11	5° 5	6°43	10°25	n.a.	M 9
T 10	16 58 5	14°14'29	6♒46	5°58	15° 7	20°32	8°42	21°28	19° 3	7° 5	21°11	5°D 4	6°40	10°31	n.a.	T 10
W11	17 2 2	15°11'36	18°40	8° 4	16°19	21°11	8°42	21°32	19° 6	7° 3	21°11	5° 5	6°37	10°38	n.a.	W11
T 12	17 5 58	16° 8'43	0♓43	10°12	17°30	21°51	8°42	21°37	19° 9	7° 2	21°12	5° 6	6°34	10°45	n.a.	T 12
F 13	17 9 55	17° 5'52	13° 1	12°20	18°42	22°30	8°43	21°41	19°13	7° 0	21°12	5°R 7	6°31	10°51	n.a.	F 13
S 14	17 13 51	18° 3'01	25°38	14°29	19°54	23° 9	8°44	21°45	19°16	6°59	21°12	5° 7	6°27	10°58	n.a.	S 14
S 15	17 17 48	19° 0'10	8♈40	16°38	21° 6	23°47	8°44	21°50	19°19	6°57	21°12	5° 5	6°24	11° 5	n.a.	S 15
M16	17 21 44	19°57'20	22° 8	18°47	22°18	24°26	8°46	21°55	19°23	6°56	21°13	5° 1	6°21	11°11	n.a.	M16
T 17	17 25 41	20°54'31	6♉ 6	20°55	23°30	25° 5	8°47	21°59	19°26	6°54	21°13	4°56	6°18	11°18	n.a.	T 17
W18	17 29 38	21°51'43	20°30	23° 3	24°42	25°43	8°48	22° 4	19°29	6°53	21°13	4°50	6°15	11°25	n.a.	W18
T 19	17 33 34	22°48'56	5♊18	25°10	25°54	26°21	8°50	22° 9	19°33	6°51	21°13	4°44	6°12	11°31	n.a.	T 19
F 20	17 37 31	23°46'09	20°22	27°16	27° 7	26°59	8°52	22°14	19°36	6°50	21°13	4°38	6° 8	11°38	n.a.	F 20
S 21	17 41 27	24°43'23	5♋32	29°21	28°19	27°37	8°54	22°19	19°40	6°48	21°13	4°34	6° 5	11°45	n.a.	S 21
S 22	17 45 24	25°40'38	20°39	1♋25	29°31	28°14	8°56	22°24	19°43	6°47	21°13	4°31	6° 2	11°51	n.a.	S 22
M23	17 49 20	26°37'53	5♌34	3°27	0♊43	28°52	8°58	22°29	19°47	6°45	21°14	4°D31	5°59	11°58	n.a.	M23
T 24	17 53 17	27°35'08	20°10	5°28	1°56	29°29	9° 1	22°34	19°50	6°43	21°14	4°31	5°56	12° 5	n.a.	T 24
W25	17 57 14	28°32'24	4♍23	7°27	3° 8	0♈ 6	9° 4	22°40	19°54	6°42	21°R14	4°33	5°52	12°11	n.a.	W25
T 26	18 1 10	29°29'41	18°12	9°25	4°21	0°43	9° 6	22°45	19°57	6°40	21°14	4°34	5°49	12°18	n.a.	T 26
F 27	18 5 7	0♋26'57	1♎38	11°21	5°33	1°19	9° 9	22°50	20° 1	6°39	21°14	4°R34	5°46	12°25	n.a.	F 27
S 28	18 9 3	1°24'15	14°43	13°15	6°46	1°55	9°13	22°56	20° 4	6°37	21°13	4°33	5°43	12°31	n.a.	S 28
S 29	18 13 0	2°21'33	27°29	15° 8	7°58	2°32	9°16	23° 1	20° 8	6°35	21°13	4°31	5°40	12°38	n.a.	S 29
M30	18 16 56	3♋18'51	10♏ 0	16♋59	9♊11	3♈ 8	9♎20	23♌ 7	20♋11	6♑34	21♓13	4♌28	5♌37	12♑45	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n30	2s35	4n49	16n16	1s18	11n33	1s41	8s18	2s20	2s14	1n24	16n34	1n59	22n57	0n33	23s 5	0n25	19s13	17s 9	18n58	18n42	20s59		n.a.
M 2	21 40	7 1	5 3	16 57	1 6	11 58	1 40	8 3	2 20	2 14	1 24	16 33	1 58	22 56	0 33	23 5	0 25	19 13	17 9	19 0	18 43	20 59		n.a.
T 3	21 49	11 5	5 2	17 37	0 54	12 23	1 38	7 48	2 21	2 14	1 24	16 31	1 58	22 56	0 33	23 5	0 25	19 13	17 9	19 2	18 43	20 59		n.a.
W 4	21 59	14 39	4 47	18 17	0 43	12 48	1 36	7 33	2 22	2 14	1 23	16 30	1 58	22 56	0 33	23 5	0 25	19 14	17 10	19 5	18 44	21 0		n.a.
T 5	22 7	17 32	4 19	18 56	0 31	13 13	1 35	7 17	2 23	2 13	1 23	16 29	1 58	22 55	0 33	23 5	0 25	19 14	17 10	19 7	18 45	21 0		n.a.
F 6	22 16	19 38	3 40	19 35	0 19	13 37	1 33	7 2	2 24	2 13	1 23	16 27	1 58	22 55	0 33	23 6	0 25	19 14	17 10	19 9	18 46	21 0		n.a.
S 7	22 24	20 51	2 51	20 13	0 8	14 1	1 31	6 47	2 24	2 14	1 23	16 26	1 58	22 54	0 33	23 6	0 25	19 14	17 11	19 11	18 47	21 1		n.a.
S 8	22 32	21 8	1 55	20 49	0n 4	14 25	1 29	6 32	2 25	2 14	1 22	16 24	1 58	22 54	0 33	23 6	0 25	19 14	17 11	19 12	18 47	21 1		n.a.
M 9	22 39	20 29	0 54	21 24	0 15	14 48	1 27	6 17	2 26	2 14	1 22	16 23	1 57	22 53	0 33	23 6	0 25	19 14	17 11	19 13	18 48	21 1		n.a.
T 10	22 46	18 56	0s 9	21 58	0 25	15 12	1 25	6 2	2 27	2 14	1 22	16 21	1 57	22 53	0 33	23 6	0 25	19 15	17 12	19 13	18 49	21 1		n.a.
W11	22 53	16 33	1 13	22 29	0 36	15 34	1 23	5 47	2 28	2 15	1 21	16 20	1 57	22 52	0 33	23 6	0 25	19 15	17 12	19 13	18 50	21 2		n.a.
T 12	22 59	13 26	2 14	22 59	0 45	15 57	1 21	5 32	2 28	2 15	1 21	16 18	1 57	22 52	0 33	23 6	0 25	19 15	17 13	19 12	18 51	21 2		n.a.
F 13	23 5	9 40	3 11	23 26	0 54	16 19	1 19	5 17	2 29	2 15	1 21	16 17	1 57	22 51	0 33	23 6	0 25	19 15	17 13	19 12	18 51	21 2		n.a.
S 14	23 10	5 24	3 59	23 50	1 3	16 41	1 17	5 2	2 30	2 16	1 20	16 15	1 57	22 51	0 33	23 6	0 25	19 15	17 13	19 12	18 52	21 2		n.a.
S 15	23 15	0 46	4 37	24 12	1 11	17 2	1 15	4 47	2 31	2 17	1 20	16 14	1 57	22 50	0 33	23 6	0 25	19 16	17 14	19 13	18 53	21 3		n.a.
M16	23 20	4n 3	5 2	24 31	1 18	17 23	1 13	4 33	2 31	2 17	1 20	16 12	1 57	22 50	0 33	23 6	0 25	19 16	17 14	19 14	18 54	21 3		n.a.
T 17	23 24	8 50	5 9	24 48	1 24	17 43	1 11	4 18	2 32	2 18	1 20	16 10	1 57	22 49	0 33	23 7	0 25	19 16	17 14	19 15	18 55	21 3		n.a.
W18	23 27	13 17	4 58	25 2	1 30	18 3	1 8	4 3	2 33	2 19	1 19	16 9	1 56	22 49	0 33	23 7	0 25	19 16	17 15	19 16	18 55	21 3		n.a.
T 19	23 31	17 3	4 27	25 12	1 35	18 23	1 6	3 48	2 33	2 20	1 19	16 7	1 56	22 48	0 33	23 7	0 25	19 17	17 15	19 18	18 56	21 4		n.a.
F 20	23 34	19 45	3 37	25 20	1 40	18 42	1 4	3 34	2 34	2 21	1 19	16 5	1 56	22 48	0 33	23 7	0 25	19 17	17 15	19 19	18 57	21 4		n.a.
S 21	23 36	21 5	2 31	25 26	1 43	19 1	1 1	3 19	2 35	2 22	1 18	16 3	1 56	22 47	0 33	23 7	0 25	19 17	17 16	19 20	18 58	21 4		n.a.
S 22	23 38	20 52	1 15	25 28	1 46	19 19	0 59	3 5	2 35	2 23	1 18	16 2	1 56	22 47	0 33	23 7	0 25	19 17	17 16	19 21	18 59	21 4		n.a.
M23	23 40	19 11	0n 6	25 28	1 48	19 37	0 56	2 50	2 36	2 24	1 18	16 0	1 56	22 46	0 33	23 7	0 25	19 18	17 16	19 21	18 59	21 4		n.a.
T 24	23 41	16 16	1 24	25 25	1 50	19 54	0 54	2 36	2 37	2 26	1 17	15 58	1 56	22 46	0 33	23 7	0 25	19 18	17 17	19 21	19 0	21 5		n.a.
W25	23 42	12 26	2 36	25 20	1 51	20 11	0 51	2 22	2 37	2 27	1 17	15 56	1 56	22 45	0 33	23 7	0 25	19 18	17 17	19 21	19 1	21 5		n.a.
T 26	23 43	8 1	3 36	25 13	1 51	20 27	0 49	2 7	2 38	2 28	1 17	15 54	1 56	22 45	0 33	23 7	0 25	19 19	17 18	19 20	19 2	21 5		n.a.
F 27	23 43	3 21	4 23	25 3	1 50	20 43	0 46	1 53	2 39	2 30	1 17	15 52	1 55	22 44	0 33	23 7	0 25	19 19	17 18	19 20	19 3	21 5		n.a.
S 28	23 42	1s21	4 54	24 51	1 49	20 58	0 44	1 39	2 39	2 31	1 16	15 51	1 55	22 44	0 33	23 8	0 25	19 19	17 18	19 20	19 3	21 5		n.a.
S 29	23 41	5 52	5 10	24 37	1 48	21 13	0 41	1 25	2 40	2 33	1 16	15 49	1 55	22 43	0 33	23 8	0 25	19 20	17 19	19 21	19 4	21 6		n.a.
M30	23n40	10s 3	5n11	24n22	1n45	21n27	0s39	1s11	2s40	2s35	1n16	15n47	1n55	22n43	0n33	23s 8	0n25	19s20	17s19	19n22	19n 5	21s 6		n.a.

Julian Day Number = 1669708.5, Delta T = 03h21m14s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'17, Lahiri = - 5°54'17 Julian Calendar 1 June 142 BCE == Greg. Calendar 29 May 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

JULY 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 20 53	4♋16'11	22♏17	18♋48	10♊23	3♈43	9♎23	23♌12	20♋15	6°R32	21°R13	4°R23	5♌33	12♑51	n.a.	T 1
W 2	18 24 49	5°13'31	4♐25	20°36	11°36	4°19	9°27	23°18	20°19	6♑30	21♓13	4♌18	5°30	12°58	n.a.	W 2
T 3	18 28 46	6°10'52	16°24	22°22	12°49	4°54	9°31	23°24	20°22	6°29	21°13	4°13	5°27	13° 5	n.a.	T 3
F 4	18 32 43	7° 8'14	28°18	24° 7	14° 2	5°29	9°36	23°30	20°26	6°27	21°13	4° 9	5°24	13°11	n.a.	F 4
S 5	18 36 39	8° 5'37	10♑ 8	25°50	15°14	6° 4	9°40	23°36	20°30	6°26	21°13	4° 6	5°21	13°18	n.a.	S 5
S 6	18 40 36	9° 3'01	21°56	27°31	16°27	6°39	9°44	23°41	20°33	6°24	21°12	4° 4	5°18	13°25	n.a.	S 6
M 7	18 44 32	10° 0'26	3♒45	29°10	17°40	7°13	9°49	23°47	20°37	6°22	21°12	4°D 4	5°14	13°31	n.a.	M 7
T 8	18 48 29	10°57'53	15°36	0♌48	18°53	7°47	9°54	23°53	20°41	6°21	21°12	4° 4	5°11	13°38	n.a.	T 8
W 9	18 52 25	11°55'21	27°34	2°25	20° 6	8°21	9°59	24° 0	20°44	6°19	21°12	4° 5	5° 8	13°45	n.a.	W 9
T 10	18 56 22	12°52'50	9♓41	3°59	21°19	8°55	10° 4	24° 6	20°48	6°17	21°11	4° 7	5° 5	13°51	n.a.	T 10
F 11	19 0 18	13°50'20	22° 2	5°33	22°32	9°28	10° 9	24°12	20°52	6°16	21°11	4° 8	5° 2	13°58	n.a.	F 11
S 12	19 4 15	14°47'52	4♈39	7° 4	23°45	10° 1	10°15	24°18	20°55	6°14	21°11	4° 9	4°58	14° 5	n.a.	S 12
S 13	19 8 12	15°45'26	17°38	8°34	24°58	10°34	10°21	24°24	20°59	6°13	21°10	4°R10	4°55	14°11	n.a.	S 13
M14	19 12 8	16°43'01	1♉ 1	10° 2	26°12	11° 7	10°26	24°31	21° 3	6°11	21°10	4° 9	4°52	14°18	n.a.	M14
T 15	19 16 5	17°40'38	14°50	11°29	27°25	11°39	10°32	24°37	21° 6	6° 9	21° 9	4° 8	4°49	14°24	n.a.	T 15
W16	19 20 1	18°38'16	29° 6	12°54	28°38	12°11	10°38	24°43	21°10	6° 8	21° 9	4° 6	4°46	14°31	n.a.	W16
T 17	19 23 58	19°35'57	13♊45	14°17	29°52	12°42	10°44	24°50	21°14	6° 6	21° 9	4° 4	4°43	14°38	n.a.	T 17
F 18	19 27 54	20°33'38	28°44	15°39	1♋ 5	13°14	10°51	24°56	21°18	6° 5	21° 8	4° 3	4°39	14°44	n.a.	F 18
S 19	19 31 51	21°31'22	13♋53	16°59	2°18	13°45	10°57	25° 3	21°21	6° 3	21° 8	4° 2	4°36	14°51	n.a.	S 19
S 20	19 35 47	22°29'07	29° 4	18°17	3°32	14°15	11° 4	25°10	21°25	6° 2	21° 7	4°D 1	4°33	14°58	n.a.	S 20
M21	19 39 44	23°26'53	14♌ 8	19°33	4°45	14°46	11°11	25°16	21°29	6° 0	21° 7	4° 1	4°30	15° 4	n.a.	M21
T 22	19 43 41	24°24'41	28°55	20°47	5°59	15°16	11°18	25°23	21°33	5°59	21° 6	4° 2	4°27	15°11	n.a.	T 22
W23	19 47 37	25°22'30	13♍20	21°59	7°13	15°45	11°25	25°30	21°36	5°57	21° 5	4° 2	4°24	15°18	n.a.	W23
T 24	19 51 34	26°20'20	27°20	23° 9	8°26	16°15	11°32	25°36	21°40	5°55	21° 5	4° 3	4°20	15°24	n.a.	T 24
F 25	19 55 30	27°18'12	10♎53	24°17	9°40	16°44	11°39	25°43	21°44	5°54	21° 4	4° 4	4°17	15°31	n.a.	F 25
S 26	19 59 27	28°16'04	24° 1	25°23	10°54	17°12	11°47	25°50	21°47	5°53	21° 4	4°R 4	4°14	15°38	n.a.	S 26
S 27	20 3 23	29°13'59	6♏46	26°26	12° 7	17°40	11°54	25°57	21°51	5°51	21° 3	4° 4	4°11	15°44	n.a.	S 27
M28	20 7 20	0♌11'54	19°13	27°27	13°21	18° 8	12° 2	26° 4	21°55	5°50	21° 2	4° 4	4° 8	15°51	n.a.	M28
T 29	20 11 16	1° 9'52	1♐25	28°25	14°35	18°36	12°10	26°11	21°59	5°48	21° 2	4° 3	4° 4	15°58	n.a.	T 29
W30	20 15 13	2° 7'50	13°25	29°21	15°49	19° 3	12°18	26°18	22° 2	5°47	21° 1	4° 3	4° 1	16° 4	n.a.	W30
T 31	20 19 10	3♌ 5'50	25♐19	0♍14	17♋ 3	19♈29	12♎26	26♌25	22♋ 6	5♑45	21♓ 0	4♌ 3	3♌58	16♑11	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n38	13s45	4n58	24n 4	1n43	21n40	0s36	0s58	2s41	2s36	1n15	15n45	1n55	22n42	0n33	23s 8	0n25	19s21	17s19	19n23	19n 6	21s 6			n.a.
W 2	23 36	16 50	4 31	23 45	1 39	21 53	0 33	0 44	2 41	2 38	1 15	15 43	1 55	22 42	0 33	23 8	0 25	19 21	17 20	19 24	19 6	21 6			n.a.
T 3	23 34	19 9	3 52	23 24	1 36	22 5	0 31	0 30	2 42	2 40	1 15	15 41	1 55	22 41	0 33	23 8	0 25	19 21	17 20	19 25	19 7	21 6			n.a.
F 4	23 31	20 38	3 4	23 2	1 32	22 17	0 28	0 17	2 43	2 42	1 15	15 39	1 55	22 41	0 33	23 8	0 25	19 22	17 20	19 26	19 8	21 7			n.a.
S 5	23 28	21 12	2 8	22 39	1 27	22 28	0 25	0 3	2 43	2 44	1 14	15 37	1 55	22 40	0 33	23 8	0 25	19 22	17 21	19 27	19 9	21 7			n.a.
S 6	23 24	20 49	1 6	22 14	1 22	22 38	0 23	0n10	2 44	2 46	1 14	15 35	1 55	22 39	0 33	23 8	0 25	19 22	17 21	19 27	19 10	21 7			n.a.
M 7	23 20	19 30	0 2	21 48	1 16	22 48	0 20	0 23	2 44	2 48	1 14	15 32	1 55	22 39	0 33	23 8	0 25	19 23	17 21	19 28	19 10	21 7			n.a.
T 8	23 15	17 21	1s 3	21 21	1 11	22 57	0 17	0 37	2 45	2 50	1 13	15 30	1 55	22 38	0 33	23 8	0 25	19 23	17 22	19 27	19 11	21 7			n.a.
W 9	23 10	14 26	2 6	20 53	1 4	23 5	0 15	0 50	2 45	2 53	1 13	15 28	1 54	22 38	0 33	23 9	0 25	19 24	17 22	19 27	19 12	21 7			n.a.
T 10	23 5	10 52	3 4	20 25	0 58	23 13	0 12	1 2	2 46	2 55	1 13	15 26	1 54	22 37	0 33	23 9	0 25	19 24	17 22	19 27	19 13	21 7			n.a.
F 11	22 59	6 47	3 55	19 55	0 51	23 20	0 9	1 15	2 46	2 57	1 13	15 24	1 54	22 37	0 33	23 9	0 25	19 25	17 23	19 26	19 14	21 8			n.a.
S 12	22 53	2 20	4 36	19 25	0 44	23 27	0 7	1 28	2 46	3 0	1 12	15 22	1 54	22 36	0 33	23 9	0 25	19 25	17 23	19 26	19 14	21 8			n.a.
S 13	22 46	2n20	5 3	18 54	0 36	23 33	0 4	1 41	2 47	3 2	1 12	15 20	1 54	22 35	0 33	23 9	0 25	19 26	17 24	19 26	19 15	21 8			n.a.
M14	22 39	7 1	5 16	18 23	0 28	23 38	0 2	1 53	2 47	3 5	1 12	15 17	1 54	22 35	0 33	23 9	0 25	19 26	17 24	19 26	19 16	21 8			n.a.
T 15	22 32	11 31	5 11	17 52	0 20	23 42	0n 1	2 5	2 48	3 7	1 12	15 15	1 54	22 34	0 33	23 9	0 25	19 26	17 24	19 27	19 17	21 8			n.a.
W16	22 24	15 31	4 47	17 19	0 12	23 46	0 4	2 18	2 48	3 10	1 11	15 13	1 54	22 34	0 33	23 9	0 25	19 27	17 25	19 27	19 17	21 8			n.a.
T 17	22 16	18 40	4 4	16 47	0 4	23 49	0 6	2 30	2 48	3 13	1 11	15 11	1 54	22 33	0 33	23 9	0 25	19 27	17 25	19 27	19 18	21 8			n.a.
F 18	22 7	20 39	3 3	16 15	0s 5	23 51	0 9	2 42	2 49	3 15	1 11	15 8	1 54	22 33	0 33	23 9	0 25	19 28	17 25	19 28	19 19	21 8			n.a.
S 19	21 58	21 10	1 49	15 42	0 14	23 53	0 11	2 53	2 49	3 18	1 10	15 6	1 54	22 32	0 33	23 9	0 25	19 28	17 25	19 28	19 20	21 8			n.a.
S 20	21 49	20 8	0 27	15 9	0 23	23 54	0 14	3 5	2 49	3 21	1 10	15 4	1 54	22 31	0 33	23 10	0 25	19 29	17 26	19 28	19 20	21 9			n.a.
M21	21 39	17 40	0n56	14 37	0 33	23 54	0 16	3 17	2 50	3 24	1 10	15 2	1 54	22 31	0 33	23 10	0 25	19 29	17 26	19 28	19 21	21 9			n.a.
T 22	21 29	14 4	2 14	14 4	0 42	23 53	0 19	3 28	2 50	3 27	1 10	14 59	1 54	22 30	0 33	23 10	0 25	19 30	17 26	19 28	19 22	21 9			n.a.
W23	21 18	9 43	3 21	13 31	0 52	23 52	0 21	3 39	2 50	3 30	1 9	14 57	1 54	22 30	0 33	23 10	0 25	19 30	17 27	19 28	19 23	21 9			n.a.
T 24	21 7	4 58	4 15	12 59	1 1	23 50	0 24	3 50	2 51	3 33	1 9	14 55	1 54	22 29	0 33	23 10	0 25	19 31	17 27	19 28	19 24	21 9			n.a.
F 25	20 56	0 7	4 52	12 27	1 11	23 47	0 26	4 1	2 51	3 36	1 9	14 52	1 54	22 28	0 33	23 10	0 25	19 31	17 27	19 28	19 24	21 9			n.a.
S 26	20 45	4s35	5 13	11 56	1 21	23 44	0 29	4 12	2 51	3 39	1 9	14 50	1 54	22 28	0 33	23 10	0 25	19 32	17 28	19 27	19 25	21 9			n.a.
S 27	20 33	8 56	5 17	11 25	1 31	23 40	0 31	4 23	2 51	3 43	1 8	14 47	1 54	22 27	0 33	23 10	0 25	19 32	17 28	19 27	19 26	21 9			n.a.
M28	20 20	12 49	5 7	10 55	1 41	23 35	0 33	4 33	2 52	3 46	1 8	14 45	1 54	22 27	0 33	23 10	0 25	19 33	17 28	19 28	19 27	21 9			n.a.
T 29	20 8	16 4	4 42	10 25	1 52	23 29	0 35	4 43	2 52	3 49	1 8	14 43	1 54	22 26	0 33	23 10	0 25	19 33	17 28	19 28	19 27	21 9			n.a.
W30	19 55	18 36	4 6	9 56	2 2	23 23	0 38	4 53	2 52	3 53	1 8	14 40	1 54	22 25	0 33	23 10	0 25	19 34	17 29	19 28	19 28	21 9			n.a.
T 31	19n41	20s19	3n19	9n28	2s12	23n16	0n40	5n 3	2s52	3s56	1n 7	14n38	1n53	22n25	0n33	23s10	0n25	19s35	17s29	19n28	19n29	21s 9			n.a.

Julian Day Number = 1669738.5, Delta T = 03h21m13s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'13, Lahiri = - 5°54'13 Julian Calendar 1 July 142 BCE == Greg. Calendar 28 June 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

AUGUST 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 23 6	4♌ 3'52	7♉ 8	1♍ 3	18♋17	19♈55	12♎34	26♌32	22♋10	5°R44	21°R 0	4°D 3	3♌55	16♉18	n.a.	F 1
S 2	20 27 3	5° 1'56	18°56	1°49	19°31	20°21	12°42	26°39	22°13	5♉43	20♓59	4♌ 3	3°52	16°24	n.a.	S 2
S 3	20 30 59	6° 0'01	0♒46	2°32	20°45	20°46	12°51	26°46	22°17	5°41	20°58	4°R 3	3°49	16°31	n.a.	S 3
M 4	20 34 56	6°58'08	12°39	3°11	21°59	21°11	12°59	26°53	22°21	5°40	20°57	4° 3	3°45	16°38	n.a.	M 4
T 5	20 38 52	7°56'16	24°39	3°46	23°13	21°36	13° 8	27° 0	22°24	5°39	20°56	4° 3	3°42	16°44	n.a.	T 5
W 6	20 42 49	8°54'27	6♓46	4°17	24°27	22° 0	13°17	27° 7	22°28	5°37	20°56	4° 2	3°39	16°51	n.a.	W 6
T 7	20 46 45	9°52'39	19° 4	4°43	25°41	22°23	13°26	27°14	22°31	5°36	20°55	4° 2	3°36	16°58	n.a.	T 7
F 8	20 50 42	10°50'54	1♈34	5° 4	26°55	22°46	13°35	27°21	22°35	5°35	20°54	4° 1	3°33	17° 4	n.a.	F 8
S 9	20 54 39	11°49'10	14°19	5°20	28°10	23° 9	13°44	27°28	22°39	5°33	20°53	4° 0	3°30	17°11	n.a.	S 9
S 10	20 58 35	12°47'29	27°20	5°31	29°24	23°31	13°53	27°36	22°42	5°32	20°52	3°59	3°26	17°17	n.a.	S 10
M11	21 2 32	13°45'50	10♉41	5°R36	0♌38	23°52	14° 3	27°43	22°46	5°31	20°51	3°D59	3°23	17°24	n.a.	M11
T 12	21 6 28	14°44'14	24°22	5°35	1°53	24°13	14°12	27°50	22°49	5°30	20°51	3°59	3°20	17°31	n.a.	T 12
W13	21 10 25	15°42'39	8♊25	5°28	3° 7	24°34	14°22	27°57	22°53	5°29	20°50	4° 0	3°17	17°37	n.a.	W13
T 14	21 14 21	16°41'07	22°48	5°14	4°21	24°53	14°31	28° 5	22°56	5°28	20°49	4° 1	3°14	17°44	n.a.	T 14
F 15	21 18 18	17°39'37	7♋29	4°53	5°36	25°13	14°41	28°12	23° 0	5°26	20°48	4° 2	3°10	17°51	n.a.	F 15
S 16	21 22 14	18°38'10	22°22	4°26	6°50	25°31	14°51	28°19	23° 3	5°25	20°47	4° 2	3° 7	17°57	n.a.	S 16
S 17	21 26 11	19°36'44	7♌22	3°51	8° 5	25°50	15° 1	28°27	23° 7	5°24	20°46	4°R 3	3° 4	18° 4	n.a.	S 17
M18	21 30 8	20°35'21	22°19	3°11	9°20	26° 7	15°11	28°34	23°10	5°23	20°45	4° 2	3° 1	18°11	n.a.	M18
T 19	21 34 4	21°34'00	7♍ 7	2°24	10°34	26°24	15°21	28°41	23°13	5°22	20°44	4° 0	2°58	18°17	n.a.	T 19
W20	21 38 1	22°32'40	21°36	1°31	11°49	26°40	15°31	28°49	23°17	5°21	20°43	3°58	2°55	18°24	n.a.	W20
T 21	21 41 57	23°31'22	5♎42	0°34	13° 3	26°56	15°42	28°56	23°20	5°20	20°42	3°56	2°51	18°31	n.a.	T 21
F 22	21 45 54	24°30'07	19°22	29♌33	14°18	27°11	15°52	29° 3	23°24	5°19	20°41	3°53	2°48	18°37	n.a.	F 22
S 23	21 49 50	25°28'53	2♏36	28°29	15°33	27°25	16° 3	29°11	23°27	5°19	20°40	3°51	2°45	18°44	n.a.	S 23
S 24	21 53 47	26°27'41	15°25	27°24	16°48	27°38	16°13	29°18	23°30	5°18	20°39	3°49	2°42	18°51	n.a.	S 24
M25	21 57 43	27°26'30	27°52	26°19	18° 2	27°51	16°24	29°26	23°33	5°17	20°38	3°D49	2°39	18°57	n.a.	M25
T 26	22 1 40	28°25'22	10♐ 3	25°16	19°17	28° 3	16°35	29°33	23°37	5°16	20°37	3°49	2°35	19° 4	n.a.	T 26
W27	22 5 36	29°24'15	22° 1	24°16	20°32	28°15	16°46	29°40	23°40	5°15	20°36	3°51	2°32	19°11	n.a.	W27
T 28	22 9 33	0♍23'11	3♉52	23°22	21°47	28°26	16°57	29°48	23°43	5°14	20°35	3°52	2°29	19°17	n.a.	T 28
F 29	22 13 30	1°22'08	15°40	22°35	23° 2	28°36	17° 8	29°55	23°46	5°14	20°34	3°54	2°26	19°24	n.a.	F 29
S 30	22 17 26	2°21'07	27°29	21°55	24°17	28°45	17°19	0♍ 2	23°49	5°13	20°32	3°55	2°23	19°30	n.a.	S 30
S 31	22 21 23	3♍20'08	9♒23	21♌24	25♌31	28♈53	17♎30	0♍10	23♋52	5♉12	20♓31	3°R55	2♌20	19♉37	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n27	21s 7	2n24	9n 1	2s22	23n 8	0n42	5n13	2s52	3s59	1n 7	14n35	1n53	22n24	0n33	23s11	0n25	19s35	17s29	19n28	19n30	21s 9		n.a.
S 2	19 13	20 59	1 23	8 35	2 32	23 0	0 44	5 23	2 52	4 3	1 7	14 33	1 53	22 24	0 33	23 11	0 25	19 36	17 30	19 28	19 30	21 9		n.a.
S 3	18 59	19 55	0 18	8 11	2 42	22 51	0 46	5 32	2 53	4 6	1 7	14 30	1 53	22 23	0 33	23 11	0 25	19 36	17 30	19 28	19 31	21 9		n.a.
M 4	18 44	17 58	0s48	7 48	2 51	22 41	0 48	5 42	2 53	4 10	1 7	14 28	1 53	22 23	0 33	23 11	0 25	19 37	17 30	19 28	19 32	21 9		n.a.
T 5	18 29	15 13	1 52	7 26	3 1	22 31	0 50	5 51	2 53	4 14	1 6	14 25	1 53	22 22	0 33	23 11	0 24	19 37	17 30	19 28	19 33	21 9		n.a.
W 6	18 14	11 47	2 52	7 6	3 10	22 20	0 52	6 0	2 53	4 17	1 6	14 23	1 53	22 21	0 33	23 11	0 24	19 38	17 31	19 28	19 33	21 9		n.a.
T 7	17 58	7 49	3 45	6 49	3 19	22 8	0 54	6 8	2 53	4 21	1 6	14 21	1 53	22 21	0 33	23 11	0 24	19 38	17 31	19 28	19 34	21 9		n.a.
F 8	17 43	3 28	4 28	6 33	3 27	21 56	0 56	6 17	2 53	4 25	1 6	14 18	1 53	22 20	0 33	23 11	0 24	19 39	17 31	19 28	19 35	21 9		n.a.
S 9	17 26	1n 7	4 59	6 20	3 35	21 42	0 58	6 25	2 53	4 28	1 5	14 15	1 53	22 20	0 33	23 11	0 24	19 39	17 31	19 28	19 36	21 9		n.a.
S 10	17 10	5 44	5 15	6 9	3 42	21 29	1 0	6 34	2 53	4 32	1 5	14 13	1 53	22 19	0 33	23 11	0 24	19 40	17 32	19 29	19 36	21 9		n.a.
M11	16 53	10 12	5 15	6 1	3 49	21 14	1 1	6 42	2 53	4 36	1 5	14 10	1 53	22 18	0 33	23 11	0 24	19 41	17 32	19 29	19 37	21 9		n.a.
T 12	16 36	14 16	4 58	5 56	3 55	20 59	1 3	6 49	2 53	4 40	1 5	14 8	1 53	22 18	0 33	23 11	0 24	19 41	17 32	19 29	19 38	21 9		n.a.
W13	16 18	17 39	4 22	5 54	4 0	20 44	1 5	6 57	2 53	4 44	1 5	14 5	1 53	22 17	0 33	23 11	0 24	19 42	17 32	19 29	19 39	21 9		n.a.
T 14	16 1	20 2	3 29	5 55	4 4	20 27	1 6	7 4	2 52	4 48	1 4	14 3	1 53	22 17	0 33	23 12	0 24	19 42	17 32	19 28	19 39	21 9		n.a.
F 15	15 43	21 8	2 22	6 0	4 7	20 11	1 8	7 12	2 52	4 52	1 4	14 0	1 53	22 16	0 33	23 12	0 24	19 43	17 33	19 28	19 40	21 9		n.a.
S 16	15 25	20 46	1 4	6 9	4 8	19 53	1 9	7 19	2 52	4 56	1 4	13 58	1 53	22 16	0 33	23 12	0 24	19 43	17 33	19 28	19 41	21 9		n.a.
S 17	15 6	18 56	0n18	6 21	4 8	19 35	1 10	7 25	2 52	5 0	1 4	13 55	1 54	22 15	0 33	23 12	0 24	19 44	17 33	19 28	19 42	21 9		n.a.
M18	14 47	15 48	1 40	6 38	4 6	19 17	1 12	7 32	2 52	5 4	1 4	13 53	1 54	22 14	0 33	23 12	0 24	19 45	17 33	19 28	19 42	21 9		n.a.
T 19	14 29	11 40	2 53	6 58	4 3	18 57	1 13	7 38	2 51	5 8	1 3	13 50	1 54	22 14	0 33	23 12	0 24	19 45	17 33	19 28	19 43	21 9		n.a.
W20	14 9	6 56	3 54	7 22	3 57	18 38	1 14	7 44	2 51	5 13	1 3	13 47	1 54	22 13	0 33	23 12	0 24	19 46	17 34	19 29	19 44	21 9		n.a.
T 21	13 50	1 58	4 38	7 49	3 50	18 17	1 15	7 50	2 51	5 17	1 3	13 45	1 54	22 13	0 33	23 12	0 24	19 46	17 34	19 29	19 45	21 9		n.a.
F 22	13 30	2s57	5 6	8 19	3 40	17 57	1 17	7 56	2 51	5 21	1 3	13 42	1 54	22 12	0 33	23 12	0 24	19 47	17 34	19 30	19 45	21 9		n.a.
S 23	13 10	7 34	5 15	8 52	3 29	17 35	1 18	8 2	2 50	5 25	1 3	13 40	1 54	22 12	0 33	23 12	0 24	19 47	17 34	19 31	19 46	21 9		n.a.
S 24	12 50	11 43	5 9	9 27	3 16	17 14	1 19	8 7	2 50	5 30	1 2	13 37	1 54	22 11	0 33	23 12	0 24	19 48	17 34	19 31	19 47	21 9		n.a.
M25	12 30	15 14	4 48	10 3	3 1	16 51	1 19	8 12	2 49	5 34	1 2	13 35	1 54	22 11	0 33	23 12	0 24	19 48	17 34	19 31	19 48	21 9		n.a.
T 26	12 9	18 1	4 15	10 40	2 44	16 29	1 20	8 17	2 49	5 38	1 2	13 32	1 54	22 10	0 33	23 12	0 24	19 49	17 35	19 31	19 48	21 9		n.a.
W27	11 49	19 58	3 31	11 17	2 26	16 5	1 21	8 21	2 48	5 43	1 2	13 29	1 54	22 10	0 33	23 12	0 24	19 50	17 35	19 31	19 49	21 9		n.a.
T 28	11 28	21 1	2 38	11 53	2 7	15 42	1 22	8 26	2 48	5 47	1 2	13 27	1 54	22 9	0 33	23 12	0 24	19 50	17 35	19 30	19 50	21 8		n.a.
F 29	11 7	21 9	1 39	12 27	1 48	15 17	1 22	8 30	2 47	5 51	1 2	13 24	1 54	22 8	0 33	23 12	0 24	19 51	17 35	19 30	19 50	21 8		n.a.
S 30	10 45	20 19	0 35	12 59	1 28	14 53	1 23	8 34	2 47	5 56	1 1	13 22	1 54	22 8	0 33	23 13	0 24	19 51	17 35	19 30	19 51	21 8		n.a.
S 31	10n24	18s35	0s30	13n27	1s 8	14n28	1n24	8n37	2s46	6s 0	1n 1	13n19	1n54	22n 7	0n33	23s13	0n24	19s52	17s35	19n30	19n52	21s 8		n.a.

Julian Day Number = 1669769.5, Delta T = 03h21m12s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'09, Lahiri = - 5°54'09 Julian Calendar 1 Aug. 142 BCE == Greg. Calendar 29 July 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

SEPTEMBER 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 25 19	4♍19'12	21♒24	21°R 3	26♌46	29♈ 1	17♎41	0♍17	23♋55	5°R12	20°R30	3°R54	2♌16	19♑44	n.a.	M 1
T 2	22 29 16	5°18'17	3♓35	20♌52	28° 1	29° 8	17°53	0°25	23°58	5♑11	20♓29	3♌51	2°13	19°50	n.a.	T 2
W 3	22 33 12	6°17'24	15°58	20°D51	29°16	29°14	18° 4	0°32	24° 1	5°10	20°28	3°47	2°10	19°57	n.a.	W 3
T 4	22 37 9	7°16'34	28°32	21° 1	0♍31	29°19	18°16	0°39	24° 4	5°10	20°27	3°41	2° 7	20° 4	n.a.	T 4
F 5	22 41 5	8°15'45	11♈20	21°21	1°46	29°24	18°27	0°47	24° 7	5° 9	20°26	3°35	2° 4	20°10	n.a.	F 5
S 6	22 45 2	9°14'59	24°20	21°51	3° 1	29°27	18°39	0°54	24°10	5° 9	20°25	3°29	2° 1	20°17	n.a.	S 6
S 7	22 48 58	10°14'16	7♉34	22°31	4°16	29°30	18°51	1° 1	24°13	5° 8	20°23	3°25	1°57	20°24	n.a.	S 7
M 8	22 52 55	11°13'34	21° 1	23°19	5°32	29°32	19° 2	1° 9	24°16	5° 8	20°22	3°21	1°54	20°30	n.a.	M 8
T 9	22 56 52	12°12'56	4♊42	24°14	6°47	29°33	19°14	1°16	24°19	5° 8	20°21	3°19	1°51	20°37	n.a.	T 9
W10	23 0 48	13°12'20	18°37	25°18	8° 2	29°R33	19°26	1°23	24°22	5° 7	20°20	3°D19	1°48	20°44	n.a.	W10
T 11	23 4 45	14°11'46	2♋44	26°27	9°17	29°32	19°38	1°31	24°24	5° 7	20°19	3°20	1°45	20°50	n.a.	T 11
F 12	23 8 41	15°11'15	17° 5	27°42	10°32	29°31	19°50	1°38	24°27	5° 7	20°18	3°22	1°41	20°57	n.a.	F 12
S 13	23 12 38	16°10'46	1♌35	29° 3	11°47	29°28	20° 2	1°45	24°30	5° 6	20°17	3°R22	1°38	21° 4	n.a.	S 13
S 14	23 16 34	17°10'19	16°11	0♍27	13° 3	29°25	20°14	1°52	24°32	5° 6	20°15	3°22	1°35	21°10	n.a.	S 14
M15	23 20 31	18° 9'55	0♍49	1°56	14°18	29°21	20°27	1°59	24°35	5° 6	20°14	3°19	1°32	21°17	n.a.	M15
T 16	23 24 27	19° 9'33	15°21	3°27	15°33	29°15	20°39	2° 7	24°37	5° 6	20°13	3°14	1°29	21°23	n.a.	T 16
W17	23 28 24	20° 9'13	29°40	5° 1	16°48	29° 9	20°51	2°14	24°40	5° 5	20°12	3° 7	1°26	21°30	n.a.	W17
T 18	23 32 21	21° 8'55	13♎42	6°37	18° 4	29° 2	21° 4	2°21	24°42	5° 5	20°11	2°59	1°22	21°37	n.a.	T 18
F 19	23 36 17	22° 8'39	27°22	8°14	19°19	28°54	21°16	2°28	24°45	5° 5	20°10	2°51	1°19	21°43	n.a.	F 19
S 20	23 40 14	23° 8'25	10♏37	9°53	20°34	28°45	21°29	2°35	24°47	5° 5	20° 8	2°43	1°16	21°50	n.a.	S 20
S 21	23 44 10	24° 8'13	23°29	11°33	21°49	28°36	21°41	2°42	24°49	5°D 5	20° 7	2°37	1°13	21°57	n.a.	S 21
M22	23 48 7	25° 8'03	5♐59	13°14	23° 5	28°25	21°54	2°49	24°52	5° 5	20° 6	2°33	1°10	22° 3	n.a.	M22
T 23	23 52 3	26° 7'54	18°10	14°55	24°20	28°14	22° 6	2°56	24°54	5° 5	20° 5	2°31	1° 7	22°10	n.a.	T 23
W24	23 56 0	27° 7'48	0♑ 9	16°36	25°35	28° 2	22°19	3° 3	24°56	5° 5	20° 4	2°D30	1° 3	22°17	n.a.	W24
T 25	23 59 56	28° 7'43	11°59	18°18	26°51	27°49	22°32	3°10	24°58	5° 6	20° 3	2°31	1° 0	22°23	n.a.	T 25
F 26	0 3 53	29° 7'40	23°47	19°59	28° 6	27°35	22°44	3°17	25° 0	5° 6	20° 2	2°32	0°57	22°30	n.a.	F 26
S 27	0 7 50	0♎ 7'38	5♒37	21°41	29°21	27°20	22°57	3°24	25° 2	5° 6	20° 0	2°R33	0°54	22°37	n.a.	S 27
S 28	0 11 46	1° 7'39	17°35	23°22	0♎37	27° 5	23°10	3°31	25° 4	5° 6	19°59	2°31	0°51	22°43	n.a.	S 28
M29	0 15 43	2° 7'41	29°44	25° 3	1°52	26°49	23°23	3°38	25° 6	5° 6	19°58	2°28	0°47	22°50	n.a.	M29
T 30	0 19 39	3♎ 7'45	12♓ 6	26♍44	3♎ 8	26♈32	23♎36	3♍44	25♋ 8	5♑ 7	19♓57	2♌21	0♌44	22♑57	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	10n 2	16s 1	1s34	13n53	0s48	14n 3	1n24	8n41	2s45	6s 5	1n 1	13n16	1n54	22n 7	0n33	23s13	0n24	19s52	17s35	19n30	19n53	21s 8		n.a.
T 2	9 40	12 43	2 35	14 14	0 29	13 37	1 24	8 44	2 44	6 9	1 1	13 14	1 54	22 6	0 33	23 13	0 24	19 53	17 35	19 31	19 53	21 8		n.a.
W 3	9 18	8 49	3 30	14 32	0 11	13 11	1 25	8 47	2 44	6 14	1 1	13 11	1 54	22 6	0 34	23 13	0 24	19 53	17 35	19 32	19 54	21 8		n.a.
T 4	8 56	4 29	4 15	14 45	0n 6	12 44	1 25	8 49	2 43	6 18	1 1	13 9	1 54	22 5	0 34	23 13	0 24	19 54	17 36	19 33	19 55	21 8		n.a.
F 5	8 34	0n 7	4 48	14 54	0 22	12 17	1 25	8 52	2 42	6 23	1 0	13 6	1 54	22 5	0 34	23 13	0 24	19 54	17 36	19 34	19 56	21 8		n.a.
S 6	8 11	4 47	5 7	14 58	0 37	11 50	1 25	8 54	2 41	6 28	1 0	13 3	1 54	22 4	0 34	23 13	0 24	19 55	17 36	19 36	19 56	21 7		n.a.
S 7	7 49	9 18	5 10	14 58	0 51	11 22	1 25	8 56	2 40	6 32	1 0	13 1	1 55	22 4	0 34	23 13	0 24	19 55	17 36	19 37	19 57	21 7		n.a.
M 8	7 26	13 27	4 57	14 54	1 3	10 55	1 25	8 57	2 39	6 37	1 0	12 58	1 55	22 3	0 34	23 13	0 24	19 56	17 36	19 38	19 58	21 7		n.a.
T 9	7 3	16 58	4 26	14 46	1 14	10 26	1 25	8 59	2 38	6 42	1 0	12 56	1 55	22 3	0 34	23 13	0 24	19 56	17 36	19 38	19 58	21 7		n.a.
W10	6 40	19 34	3 39	14 33	1 24	9 58	1 25	9 0	2 37	6 46	1 0	12 53	1 55	22 3	0 34	23 13	0 24	19 57	17 36	19 38	19 59	21 7		n.a.
T 11	6 17	21 2	2 39	14 17	1 32	9 29	1 25	9 1	2 36	6 51	0 59	12 51	1 55	22 2	0 34	23 13	0 24	19 57	17 36	19 38	20 0	21 7		n.a.
F 12	5 54	21 10	1 27	13 58	1 39	9 0	1 25	9 1	2 34	6 56	0 59	12 48	1 55	22 2	0 34	23 13	0 24	19 58	17 36	19 38	20 1	21 6		n.a.
S 13	5 31	19 53	0 10	13 35	1 45	8 31	1 24	9 2	2 33	7 1	0 59	12 46	1 55	22 1	0 34	23 13	0 24	19 58	17 36	19 37	20 1	21 6		n.a.
S 14	5 7	17 16	1n 9	13 9	1 50	8 2	1 24	9 2	2 32	7 5	0 59	12 43	1 55	22 1	0 34	23 13	0 24	19 59	17 36	19 37	20 2	21 6		n.a.
M15	4 44	13 32	2 23	12 40	1 54	7 32	1 24	9 2	2 30	7 10	0 59	12 41	1 55	22 0	0 34	23 13	0 24	19 59	17 36	19 38	20 3	21 6		n.a.
T 16	4 20	9 1	3 27	12 10	1 56	7 2	1 23	9 1	2 29	7 15	0 59	12 38	1 55	22 0	0 34	23 13	0 24	20 0	17 36	19 39	20 3	21 6		n.a.
W17	3 57	4 3	4 17	11 36	1 58	6 32	1 22	9 0	2 27	7 20	0 59	12 35	1 55	21 59	0 34	23 13	0 23	20 0	17 36	19 41	20 4	21 6		n.a.
T 18	3 33	1s 1	4 51	11 1	1 59	6 1	1 22	8 59	2 26	7 24	0 58	12 33	1 56	21 59	0 34	23 13	0 23	20 1	17 36	19 43	20 5	21 5		n.a.
F 19	3 9	5 54	5 6	10 24	1 59	5 31	1 21	8 58	2 24	7 29	0 58	12 31	1 56	21 59	0 34	23 13	0 23	20 1	17 36	19 45	20 6	21 5		n.a.
S 20	2 45	10 21	5 5	9 46	1 58	5 0	1 20	8 57	2 22	7 34	0 58	12 28	1 56	21 58	0 34	23 13	0 23	20 2	17 36	19 46	20 6	21 5		n.a.
S 21	2 21	14 13	4 48	9 6	1 57	4 30	1 19	8 55	2 20	7 39	0 58	12 26	1 56	21 58	0 34	23 13	0 23	20 2	17 36	19 48	20 7	21 5		n.a.
M22	1 57	17 20	4 17	8 26	1 55	3 59	1 19	8 53	2 18	7 44	0 58	12 23	1 56	21 57	0 34	23 13	0 23	20 3	17 36	19 49	20 8	21 5		n.a.
T 23	1 33	19 36	3 36	7 44	1 52	3 28	1 18	8 51	2 17	7 49	0 58	12 21	1 56	21 57	0 34	23 13	0 23	20 3	17 36	19 49	20 8	21 4		n.a.
W24	1 9	20 57	2 45	7 1	1 49	2 57	1 17	8 48	2 15	7 54	0 58	12 18	1 56	21 57	0 34	23 13	0 23	20 3	17 36	19 49	20 9	21 4		n.a.
T 25	0 45	21 22	1 48	6 18	1 46	2 25	1 16	8 45	2 12	7 58	0 58	12 16	1 56	21 56	0 34	23 13	0 23	20 4	17 36	19 49	20 10	21 4		n.a.
F 26	0 21	20 49	0 47	5 34	1 42	1 54	1 14	8 42	2 10	8 3	0 57	12 13	1 57	21 56	0 34	23 13	0 23	20 4	17 36	19 49	20 10	21 4		n.a.
S 27	0s 3	19 21	0s17	4 50	1 38	1 23	1 13	8 39	2 8	8 8	0 57	12 11	1 57	21 56	0 34	23 13	0 23	20 5	17 36	19 49	20 11	21 3		n.a.
S 28	0 27	17 0	1 20	4 5	1 33	0 51	1 12	8 36	2 6	8 13	0 57	12 9	1 57	21 55	0 34	23 14	0 23	20 5	17 36	19 49	20 12	21 3		n.a.
M29	0 51	13 53	2 20	3 20	1 28	0 20	1 11	8 32	2 4	8 18	0 57	12 6	1 57	21 55	0 34	23 14	0 23	20 5	17 36	19 50	20 13	21 3		n.a.
T 30	1s15	10s 6	3s15	2n35	1n23	0s12	1n 9	8n28	2s 1	8s23	0n57	12n 4	1n57	21n55	0n34	23s14	0n23	20s 6	17s35	19n51	20n13	21s 3		n.a.

Julian Day Number = 1669800.5, Delta T = 03h21m11s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'05, Lahiri = - 5°54'04 Julian Calendar 1 Sept. 142 BCE == Greg. Calendar 29 Aug. 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

OCTOBER 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 23 36	4♎ 7'51	24♓45	28♍25	4♎23	26°R15	23♎49	3♍51	25♋10	5♑ 7	19°R56	2°R13	0♌41	23♑ 3	n.a.	W 1
T 2	0 27 32	5° 7'59	7♈40	0♎ 5	5°38	25♈57	24° 2	3°58	25°12	5° 7	19♓55	2♌ 2	0°38	23°10	n.a.	T 2
F 3	0 31 29	6° 8'08	20°50	1°45	6°54	25°38	24°15	4° 5	25°14	5° 8	19°54	1°51	0°35	23°16	n.a.	F 3
S 4	0 35 25	7° 8'20	4♉15	3°24	8° 9	25°19	24°28	4°11	25°16	5° 8	19°53	1°40	0°32	23°23	n.a.	S 4
S 5	0 39 22	8° 8'34	17°51	5° 3	9°25	24°59	24°41	4°18	25°17	5° 9	19°51	1°30	0°28	23°30	n.a.	S 5
M 6	0 43 18	9° 8'50	1♊36	6°42	10°40	24°39	24°54	4°24	25°19	5° 9	19°50	1°22	0°25	23°36	n.a.	M 6
T 7	0 47 15	10° 9'08	15°29	8°20	11°55	24°19	25° 7	4°31	25°20	5°10	19°49	1°17	0°22	23°43	n.a.	T 7
W 8	0 51 12	11° 9'28	29°27	9°58	13°11	23°58	25°20	4°37	25°22	5°10	19°48	1°15	0°19	23°50	n.a.	W 8
T 9	0 55 8	12° 9'50	13♋29	11°35	14°26	23°36	25°34	4°44	25°23	5°11	19°47	1°D14	0°16	23°56	n.a.	T 9
F 10	0 59 5	13°10'15	27°36	13°12	15°42	23°15	25°47	4°50	25°25	5°12	19°46	1°R15	0°12	24° 3	n.a.	F 10
S 11	1 3 1	14°10'41	11♌45	14°48	16°57	22°53	26° 0	4°56	25°26	5°12	19°45	1°14	0° 9	24°10	n.a.	S 11
S 12	1 6 58	15°11'09	25°56	16°25	18°13	22°30	26°13	5° 2	25°28	5°13	19°44	1°12	0° 6	24°16	n.a.	S 12
M13	1 10 54	16°11'40	10♍ 7	18° 1	19°28	22° 8	26°27	5° 9	25°29	5°14	19°43	1° 7	0° 3	24°23	n.a.	M13
T 14	1 14 51	17°12'12	24°13	19°36	20°43	21°46	26°40	5°15	25°30	5°14	19°42	1° 0	29♋59	24°30	n.a.	T 14
W15	1 18 47	18°12'46	8♎11	21°11	21°59	21°23	26°53	5°21	25°31	5°15	19°41	0°49	29°57	24°36	n.a.	W15
T 16	1 22 44	19°13'22	21°56	22°46	23°14	21° 1	27° 7	5°27	25°32	5°16	19°40	0°37	29°53	24°43	n.a.	T 16
F 17	1 26 41	20°13'59	5♏23	24°21	24°30	20°39	27°20	5°33	25°33	5°17	19°39	0°24	29°50	24°49	n.a.	F 17
S 18	1 30 37	21°14'38	18°32	25°55	25°45	20°16	27°33	5°39	25°34	5°18	19°38	0°11	29°47	24°56	n.a.	S 18
S 19	1 34 34	22°15'18	1♐19	27°29	27° 1	19°54	27°47	5°45	25°35	5°19	19°37	0° 1	29°44	25° 3	n.a.	S 19
M20	1 38 30	23°16'00	13°48	29° 3	28°16	19°32	28° 0	5°50	25°36	5°20	19°36	29♋52	29°41	25° 9	n.a.	M20
T 21	1 42 27	24°16'43	25°59	0♏37	29°32	19°11	28°14	5°56	25°37	5°21	19°35	29°47	29°38	25°16	n.a.	T 21
W22	1 46 23	25°17'28	7♑58	2°10	0♏47	18°50	28°27	6° 2	25°38	5°22	19°34	29°44	29°34	25°23	n.a.	W22
T 23	1 50 20	26°18'13	19°48	3°44	2° 3	18°29	28°40	6° 7	25°39	5°23	19°33	29°43	29°31	25°29	n.a.	T 23
F 24	1 54 16	27°19'00	1♒35	5°17	3°18	18° 8	28°54	6°13	25°39	5°24	19°32	29°43	29°28	25°36	n.a.	F 24
S 25	1 58 13	28°19'48	13°26	6°49	4°33	17°48	29° 7	6°18	25°40	5°25	19°32	29°43	29°25	25°43	n.a.	S 25
S 26	2 2 10	29°20'37	25°24	8°22	5°49	17°29	29°21	6°24	25°40	5°26	19°31	29°41	29°22	25°49	n.a.	S 26
M27	2 6 6	0♏21'27	7♓36	9°55	7° 4	17°10	29°34	6°29	25°41	5°27	19°30	29°37	29°18	25°56	n.a.	M27
T 28	2 10 3	1°22'18	20° 6	11°27	8°20	16°51	29°48	6°34	25°41	5°29	19°29	29°30	29°15	26° 3	n.a.	T 28
W29	2 13 59	2°23'10	2♈56	12°59	9°35	16°33	0♏ 1	6°40	25°42	5°30	19°28	29°20	29°12	26° 9	n.a.	W29
T 30	2 17 56	3°24'04	16° 7	14°31	10°51	16°16	0°14	6°45	25°42	5°31	19°27	29° 9	29° 9	26°16	n.a.	T 30
F 31	2 21 52	4♏24'58	29♈39	16♏ 3	12♏ 6	16♈ 0	0♏28	6♍50	25♋42	5♑32	19♓27	28♋55	29♋ 6	26♑23	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	1s40	5s48	4s 1	1n49	1n18	0s43	1n 8	8n24	1s59	8s28	0n57	12n 1	1n57	21n54	0n34	23s14	0n23	20s 6	17s35	19n53	20n14	21s 2		n.a.
T 2	2 4	1 9	4 36	1 4	1 12	1 15	1 7	8 20	1 56	8 33	0 57	11 59	1 57	21 54	0 34	23 14	0 23	20 7	17 35	19 56	20 15	21 2		n.a.
F 3	2 28	3n38	4 57	0 18	1 6	1 46	1 5	8 16	1 54	8 38	0 57	11 57	1 58	21 54	0 34	23 14	0 23	20 7	17 35	19 58	20 15	21 2		n.a.
S 4	2 52	8 20	5 3	0s27	1 0	2 18	1 4	8 11	1 51	8 43	0 57	11 54	1 58	21 53	0 35	23 14	0 23	20 7	17 35	20 1	20 16	21 2		n.a.
S 5	3 16	12 41	4 51	1 12	0 54	2 49	1 2	8 6	1 48	8 48	0 56	11 52	1 58	21 53	0 35	23 14	0 23	20 8	17 35	20 3	20 17	21 1		n.a.
M 6	3 40	16 26	4 22	1 57	0 48	3 21	1 0	8 1	1 45	8 53	0 56	11 50	1 58	21 53	0 35	23 14	0 23	20 8	17 35	20 5	20 17	21 1		n.a.
T 7	4 4	19 18	3 38	2 42	0 42	3 52	0 59	7 56	1 43	8 57	0 56	11 48	1 58	21 53	0 35	23 14	0 23	20 8	17 35	20 6	20 18	21 1		n.a.
W 8	4 28	21 2	2 41	3 27	0 35	4 23	0 57	7 51	1 40	9 2	0 56	11 45	1 58	21 52	0 35	23 14	0 23	20 8	17 35	20 6	20 19	21 1		n.a.
T 9	4 52	21 29	1 33	4 11	0 29	4 55	0 55	7 46	1 37	9 7	0 56	11 43	1 58	21 52	0 35	23 14	0 23	20 9	17 34	20 7	20 19	21 0		n.a.
F 10	5 15	20 34	0 19	4 56	0 22	5 26	0 53	7 41	1 34	9 12	0 56	11 41	1 59	21 52	0 35	23 14	0 23	20 9	17 34	20 7	20 20	21 0		n.a.
S 11	5 39	18 21	0n56	5 40	0 16	5 57	0 51	7 35	1 31	9 17	0 56	11 39	1 59	21 52	0 35	23 14	0 23	20 9	17 34	20 7	20 21	21 0		n.a.
S 12	6 3	15 0	2 7	6 23	0 9	6 27	0 50	7 30	1 28	9 22	0 56	11 37	1 59	21 52	0 35	23 14	0 23	20 10	17 34	20 7	20 22	20 59		n.a.
M13	6 26	10 48	3 10	7 6	0 3	6 58	0 48	7 24	1 25	9 27	0 56	11 35	1 59	21 51	0 35	23 14	0 23	20 10	17 34	20 8	20 22	20 59		n.a.
T 14	6 50	6 1	4 2	7 49	0s 4	7 29	0 46	7 19	1 22	9 32	0 56	11 32	1 59	21 51	0 35	23 14	0 23	20 10	17 34	20 10	20 23	20 59		n.a.
W15	7 13	0 58	4 38	8 31	0 11	7 59	0 44	7 13	1 19	9 37	0 56	11 30	1 59	21 51	0 35	23 14	0 23	20 10	17 33	20 12	20 24	20 58		n.a.
T 16	7 36	4s 3	4 57	9 13	0 17	8 29	0 42	7 8	1 15	9 42	0 55	11 28	2 0	21 51	0 35	23 14	0 23	20 11	17 33	20 15	20 24	20 58		n.a.
F 17	8 0	8 46	5 0	9 55	0 24	8 59	0 39	7 2	1 12	9 47	0 55	11 26	2 0	21 51	0 35	23 14	0 23	20 11	17 33	20 18	20 25	20 58		n.a.
S 18	8 23	12 57	4 46	10 35	0 30	9 29	0 37	6 57	1 9	9 52	0 55	11 24	2 0	21 51	0 35	23 14	0 23	20 11	17 33	20 20	20 26	20 57		n.a.
S 19	8 46	16 27	4 18	11 16	0 37	9 59	0 35	6 51	1 6	9 57	0 55	11 22	2 0	21 50	0 35	23 14	0 23	20 11	17 33	20 23	20 26	20 57		n.a.
M20	9 8	19 7	3 38	11 56	0 43	10 28	0 33	6 46	1 3	10 2	0 55	11 20	2 0	21 50	0 35	23 14	0 23	20 11	17 32	20 24	20 27	20 57		n.a.
T 21	9 31	20 50	2 49	12 35	0 49	10 57	0 31	6 41	0 59	10 6	0 55	11 18	2 1	21 50	0 35	23 13	0 23	20 12	17 32	20 26	20 28	20 56		n.a.
W22	9 54	21 36	1 53	13 14	0 55	11 26	0 29	6 35	0 56	10 11	0 55	11 16	2 1	21 50	0 35	23 13	0 23	20 12	17 32	20 26	20 28	20 56		n.a.
T 23	10 16	21 22	0 52	13 52	1 1	11 54	0 26	6 30	0 53	10 16	0 55	11 14	2 1	21 50	0 35	23 13	0 23	20 12	17 32	20 26	20 29	20 56		n.a.
F 24	10 38	20 12	0s10	14 29	1 7	12 23	0 24	6 25	0 50	10 21	0 55	11 12	2 1	21 50	0 35	23 13	0 23	20 12	17 31	20 26	20 30	20 55		n.a.
S 25	11 0	18 8	1 12	15 6	1 13	12 51	0 22	6 21	0 47	10 26	0 55	11 11	2 1	21 50	0 35	23 13	0 23	20 12	17 31	20 26	20 30	20 55		n.a.
S 26	11 22	15 16	2 12	15 42	1 19	13 18	0 19	6 16	0 43	10 31	0 55	11 9	2 2	21 50	0 35	23 13	0 23	20 12	17 31	20 27	20 31	20 55		n.a.
M27	11 44	11 41	3 6	16 17	1 24	13 46	0 17	6 12	0 40	10 36	0 55	11 7	2 2	21 50	0 35	23 13	0 22	20 12	17 31	20 28	20 32	20 54		n.a.
T 28	12 5	7 32	3 53	16 51	1 30	14 13	0 15	6 7	0 37	10 40	0 55	11 5	2 2	21 50	0 35	23 13	0 22	20 13	17 30	20 29	20 32	20 54		n.a.
W29	12 26	2 56	4 30	17 25	1 35	14 39	0 12	6 3	0 34	10 45	0 55	11 3	2 2	21 50	0 35	23 13	0 22	20 13	17 30	20 31	20 33	20 53		n.a.
T 30	12 47	1n55	4 53	17 58	1 40	15 5	0 10	6 0	0 31	10 50	0 54	11 2	2 2	21 50	0 36	23 13	0 22	20 13	17 30	20 34	20 34	20 53		n.a.
F 31	13s 8	6n48	5s 0	18s30	1s44	15s31	0n 8	5n56	0s28	10s55	0n54	11n 0	2n 3	21n50	0n36	23s13	0n22	20s13	17s30	20n36	20n34	20s53		n.a.

Julian Day Number = 1669830.5, Delta T = 03h21m10s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°01'01, Lahiri = - 5°54'00 Julian Calendar 1 Oct. 142 BCE == Greg. Calendar 28 Sept. 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

NOVEMBER 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 25 49	5♏25'54	13♉29	17♏35	13♏21	15°R44	0♏41	6♍55	25♋43	5♑34	19°R26	28°R43	29♋ 3	26♑29	n.a.	S 1
S 2	2 29 45	6°26'51	27°32	19° 6	14°37	15♈28	0°55	7° 0	25°43	5°35	19♓25	28♋31	28°59	26°36	n.a.	S 2
M 3	2 33 42	7°27'49	11♊44	20°38	15°52	15°14	1° 8	7° 5	25°43	5°36	19°24	28°22	28°56	26°42	n.a.	M 3
T 4	2 37 39	8°28'48	26° 0	22° 9	17° 8	15° 0	1°22	7° 9	25°R43	5°38	19°24	28°16	28°53	26°49	n.a.	T 4
W 5	2 41 35	9°29'49	10♋15	23°39	18°23	14°47	1°35	7°14	25°43	5°39	19°23	28°13	28°50	26°56	n.a.	W 5
T 6	2 45 32	10°30'51	24°27	25°10	19°38	14°35	1°48	7°19	25°43	5°41	19°22	28°D12	28°47	27° 2	n.a.	T 6
F 7	2 49 28	11°31'54	8♌34	26°40	20°54	14°24	2° 2	7°23	25°43	5°42	19°22	28°R12	28°44	27° 9	n.a.	F 7
S 8	2 53 25	12°32'59	22°35	28°10	22° 9	14°13	2°15	7°28	25°43	5°44	19°21	28°12	28°40	27°16	n.a.	S 8
S 9	2 57 21	13°34'05	6♍30	29°39	23°25	14° 3	2°28	7°32	25°42	5°45	19°20	28°10	28°37	27°22	n.a.	S 9
M10	3 1 18	14°35'11	20°17	1♐ 7	24°40	13°54	2°42	7°36	25°42	5°47	19°20	28° 5	28°34	27°29	n.a.	M10
T 11	3 5 14	15°36'19	3♎58	2°35	25°55	13°46	2°55	7°40	25°42	5°48	19°19	27°58	28°31	27°36	n.a.	T 11
W12	3 9 11	16°37'28	17°29	4° 2	27°11	13°39	3° 8	7°44	25°41	5°50	19°19	27°48	28°28	27°42	n.a.	W12
T 13	3 13 8	17°38'38	0♏48	5°28	28°26	13°32	3°22	7°48	25°41	5°52	19°18	27°36	28°24	27°49	n.a.	T 13
F 14	3 17 4	18°39'49	13°55	6°53	29°41	13°26	3°35	7°52	25°40	5°53	19°18	27°23	28°21	27°56	n.a.	F 14
S 15	3 21 1	19°41'00	26°47	8°16	0♐57	13°21	3°48	7°56	25°40	5°55	19°17	27°11	28°18	28° 2	n.a.	S 15
S 16	3 24 57	20°42'12	9♐23	9°38	2°12	13°17	4° 1	8° 0	25°39	5°57	19°17	27° 0	28°15	28° 9	n.a.	S 16
M17	3 28 54	21°43'25	21°44	10°58	3°27	13°14	4°14	8° 4	25°38	5°59	19°16	26°52	28°12	28°15	n.a.	M17
T 18	3 32 50	22°44'38	3♑52	12°15	4°43	13°12	4°27	8° 7	25°38	6° 0	19°16	26°47	28° 9	28°22	n.a.	T 18
W19	3 36 47	23°45'51	15°48	13°30	5°58	13°10	4°41	8°11	25°37	6° 2	19°15	26°44	28° 5	28°29	n.a.	W19
T 20	3 40 43	24°47'05	27°37	14°41	7°13	13°D 9	4°54	8°14	25°36	6° 4	19°15	26°D43	28° 2	28°35	n.a.	T 20
F 21	3 44 40	25°48'19	9♒24	15°49	8°29	13° 9	5° 7	8°17	25°35	6° 6	19°15	26°44	27°59	28°42	n.a.	F 21
S 22	3 48 37	26°49'33	21°13	16°53	9°44	13°10	5°20	8°21	25°34	6° 8	19°14	26°R45	27°56	28°49	n.a.	S 22
S 23	3 52 33	27°50'47	3♓10	17°52	10°59	13°12	5°33	8°24	25°33	6° 9	19°14	26°45	27°53	28°55	n.a.	S 23
M24	3 56 30	28°52'01	15°21	18°45	12°15	13°14	5°46	8°27	25°32	6°11	19°14	26°43	27°49	29° 2	n.a.	M24
T 25	4 0 26	29°53'15	27°50	19°32	13°30	13°17	5°59	8°30	25°31	6°13	19°13	26°39	27°46	29° 9	n.a.	T 25
W26	4 4 23	0♐54'29	10♈42	20°11	14°45	13°21	6°11	8°32	25°30	6°15	19°13	26°33	27°43	29°15	n.a.	W26
T 27	4 8 19	1°55'43	23°59	20°42	16° 0	13°26	6°24	8°35	25°29	6°17	19°13	26°25	27°40	29°22	n.a.	T 27
F 28	4 12 16	2°56'57	7♉42	21° 5	17°16	13°31	6°37	8°38	25°28	6°19	19°13	26°16	27°37	29°29	n.a.	F 28
S 29	4 16 12	3°58'11	21°48	21°17	18°31	13°37	6°50	8°40	25°26	6°21	19°12	26° 7	27°34	29°35	n.a.	S 29
S 30	4 20 9	4♐59'25	6♊14	21°R18	19♐46	13♈44	7♏ 2	8♍43	25♋25	6♑23	19♓12	25♋58	27♋30	29♑42	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s29	11n27	4s51	19s 1	1s49	15s57	0n 5	5n53	0s25	11s 0	0n54	10n58	2n 3	21n50	0n36	23s13	0n22	20s13	17s29	20n39	20n35	20s52		n.a.
S 2	13 49	15 34	4 23	19 31	1 53	16 22	0 3	5 49	0 22	11 4	0 54	10 57	2 3	21 50	0 36	23 13	0 22	20 13	17 29	20 41	20 36	20 52		n.a.
M 3	14 9	18 50	3 39	20 0	1 57	16 46	0 0	5 46	0 19	11 9	0 54	10 55	2 3	21 50	0 36	23 13	0 22	20 13	17 29	20 43	20 36	20 51		n.a.
T 4	14 29	20 57	2 42	20 28	2 1	17 10	0s 2	5 44	0 16	11 14	0 54	10 53	2 4	21 50	0 36	23 13	0 22	20 13	17 29	20 45	20 37	20 51		n.a.
W 5	14 49	21 45	1 34	20 55	2 5	17 34	0 4	5 41	0 13	11 19	0 54	10 52	2 4	21 50	0 36	23 13	0 22	20 13	17 28	20 45	20 38	20 50		n.a.
T 6	15 9	21 9	0 20	21 20	2 8	17 57	0 7	5 39	0 10	11 23	0 54	10 50	2 4	21 50	0 36	23 13	0 22	20 13	17 28	20 45	20 38	20 50		n.a.
F 7	15 28	19 12	0n55	21 45	2 11	18 20	0 9	5 37	0 8	11 28	0 54	10 49	2 4	21 50	0 36	23 13	0 22	20 13	17 28	20 45	20 39	20 50		n.a.
S 8	15 47	16 7	2 5	22 8	2 13	18 42	0 12	5 36	0 5	11 33	0 54	10 47	2 5	21 50	0 36	23 13	0 22	20 13	17 27	20 45	20 40	20 49		n.a.
S 9	16 5	12 8	3 8	22 30	2 15	19 4	0 14	5 34	0 2	11 37	0 54	10 46	2 5	21 50	0 36	23 13	0 22	20 13	17 27	20 46	20 40	20 49		n.a.
M10	16 24	7 33	3 59	22 51	2 17	19 25	0 16	5 33	0n 0	11 42	0 54	10 45	2 5	21 50	0 36	23 13	0 22	20 13	17 27	20 47	20 41	20 48		n.a.
T 11	16 42	2 37	4 36	23 10	2 18	19 46	0 19	5 32	0 3	11 47	0 54	10 43	2 5	21 50	0 36	23 13	0 22	20 13	17 26	20 48	20 42	20 48		n.a.
W12	17 0	2s22	4 57	23 28	2 19	20 6	0 21	5 32	0 6	11 51	0 54	10 42	2 6	21 50	0 36	23 13	0 22	20 13	17 26	20 50	20 42	20 47		n.a.
T 13	17 17	7 11	5 1	23 44	2 19	20 25	0 24	5 31	0 8	11 56	0 54	10 41	2 6	21 50	0 36	23 13	0 22	20 13	17 26	20 53	20 43	20 47		n.a.
F 14	17 34	11 35	4 50	23 59	2 18	20 44	0 26	5 31	0 10	12 0	0 54	10 39	2 6	21 50	0 36	23 13	0 22	20 13	17 26	20 55	20 43	20 46		n.a.
S 15	17 51	15 23	4 23	24 12	2 17	21 3	0 28	5 32	0 13	12 5	0 54	10 38	2 6	21 51	0 36	23 13	0 22	20 12	17 25	20 58	20 44	20 46		n.a.
S 16	18 8	18 25	3 44	24 23	2 16	21 20	0 31	5 32	0 15	12 10	0 54	10 37	2 7	21 51	0 36	23 13	0 22	20 12	17 25	21 0	20 45	20 45		n.a.
M17	18 24	20 32	2 55	24 32	2 13	21 37	0 33	5 33	0 17	12 14	0 54	10 36	2 7	21 51	0 36	23 12	0 22	20 12	17 25	21 1	20 45	20 45		n.a.
T 18	18 40	21 40	1 59	24 40	2 10	21 54	0 35	5 34	0 20	12 19	0 54	10 35	2 7	21 51	0 36	23 12	0 22	20 12	17 24	21 2	20 46	20 45		n.a.
W19	18 56	21 48	0 58	24 46	2 6	22 10	0 38	5 35	0 22	12 23	0 54	10 34	2 7	21 51	0 36	23 12	0 22	20 12	17 24	21 3	20 47	20 44		n.a.
T 20	19 11	20 57	0s 5	24 50	2 1	22 25	0 40	5 37	0 24	12 27	0 54	10 33	2 8	21 51	0 36	23 12	0 22	20 12	17 23	21 3	20 47	20 44		n.a.
F 21	19 26	19 11	1 7	24 52	1 55	22 40	0 42	5 39	0 26	12 32	0 54	10 32	2 8	21 52	0 36	23 12	0 22	20 12	17 23	21 3	20 48	20 43		n.a.
S 22	19 40	16 36	2 7	24 51	1 49	22 53	0 44	5 41	0 28	12 36	0 54	10 31	2 8	21 52	0 36	23 12	0 22	20 11	17 23	21 3	20 49	20 42		n.a.
S 23	19 54	13 17	3 3	24 49	1 41	23 7	0 46	5 44	0 30	12 41	0 54	10 30	2 8	21 52	0 36	23 12	0 22	20 11	17 22	21 3	20 49	20 42		n.a.
M24	20 8	9 22	3 51	24 45	1 32	23 19	0 49	5 46	0 32	12 45	0 54	10 29	2 9	21 52	0 36	23 12	0 22	20 11	17 22	21 3	20 50	20 41		n.a.
T 25	20 21	4 58	4 29	24 39	1 21	23 31	0 51	5 49	0 34	12 49	0 54	10 28	2 9	21 53	0 37	23 12	0 22	20 11	17 22	21 4	20 51	20 41		n.a.
W26	20 34	0 14	4 55	24 30	1 10	23 42	0 53	5 52	0 36	12 54	0 54	10 27	2 9	21 53	0 37	23 12	0 22	20 11	17 21	21 5	20 51	20 40		n.a.
T 27	20 47	4n40	5 6	24 20	0 57	23 53	0 55	5 56	0 37	12 58	0 54	10 26	2 9	21 53	0 37	23 12	0 22	20 10	17 21	21 7	20 52	20 40		n.a.
F 28	20 59	9 30	5 0	24 7	0 43	24 2	0 57	6 0	0 39	13 2	0 54	10 26	2 10	21 53	0 37	23 12	0 22	20 10	17 21	21 8	20 52	20 39		n.a.
S 29	21 11	13 58	4 36	23 52	0 27	24 11	0 59	6 3	0 41	13 6	0 54	10 25	2 10	21 54	0 37	23 12	0 22	20 10	17 20	21 10	20 53	20 39		n.a.
S 30	21s22	17n44	3s55	23s36	0s11	24s19	1s 1	6n 8	0n42	13s11	0n54	10n24	2n10	21n54	0n37	23s12	0n22	20s10	17s20	21n12	20n54	20s38		n.a.

Julian Day Number = 1669861.5, Delta T = 03h21m09s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'57, Lahiri = - 5°53'56 Julian Calendar 1 Nov. 142 BCE == Greg. Calendar 29 Oct. 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 142 BCE
geocentric

DECEMBER 142 BCE (-141) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 24 6	6♐ 0'40	20♊52	21°R 8	21♐ 1	13♈51	7♏15	8♍45	25°R24	6♉25	19°R12	25°R52	27♋27	29♉49	n.a.	M 1
T 2	4 28 2	7° 1'54	5♋36	20♐47	22°16	13°59	7°28	8°47	25♋22	6°27	19♓12	25♋48	27°24	29°55	n.a.	T 2
W 3	4 31 59	8° 3'09	20°17	20°13	23°31	14° 8	7°40	8°49	25°21	6°29	19°12	25°D46	27°21	0♒ 2	n.a.	W 3
T 4	4 35 55	9° 4'24	4♌51	19°28	24°47	14°17	7°53	8°51	25°19	6°31	19°12	25°46	27°18	0° 8	n.a.	T 4
F 5	4 39 52	10° 5'38	19°13	18°32	26° 2	14°27	8° 5	8°53	25°18	6°33	19°12	25°47	27°15	0°15	n.a.	F 5
S 6	4 43 48	11° 6'53	3♍21	17°27	27°17	14°38	8°17	8°55	25°16	6°35	19°12	25°49	27°11	0°22	n.a.	S 6
S 7	4 47 45	12° 8'08	17°14	16°15	28°32	14°49	8°30	8°57	25°14	6°38	19°D12	25°R49	27° 8	0°28	n.a.	S 7
M 8	4 51 42	13° 9'23	0♎51	14°57	29°47	15° 1	8°42	8°58	25°13	6°40	19°12	25°47	27° 5	0°35	n.a.	M 8
T 9	4 55 38	14°10'38	14°15	13°37	1♉ 2	15°13	8°54	9° 0	25°11	6°42	19°12	25°44	27° 2	0°42	n.a.	T 9
W10	4 59 35	15°11'53	27°24	12°17	2°17	15°26	9° 6	9° 1	25° 9	6°44	19°12	25°38	26°59	0°48	n.a.	W10
T 11	5 3 31	16°13'08	10♏21	10°59	3°32	15°39	9°18	9° 2	25° 7	6°46	19°12	25°31	26°55	0°55	n.a.	T 11
F 12	5 7 28	17°14'23	23° 5	9°47	4°47	15°53	9°30	9° 4	25° 5	6°48	19°12	25°24	26°52	1° 2	n.a.	F 12
S 13	5 11 24	18°15'38	5♐36	8°40	6° 3	16° 8	9°42	9° 5	25° 4	6°50	19°12	25°17	26°49	1° 8	n.a.	S 13
S 14	5 15 21	19°16'52	17°57	7°42	7°18	16°23	9°54	9° 6	25° 2	6°53	19°12	25°11	26°46	1°15	n.a.	S 14
M15	5 19 17	20°18'05	0♑ 6	6°53	8°33	16°39	10° 6	9° 6	25° 0	6°55	19°12	25° 7	26°43	1°22	n.a.	M15
T 16	5 23 14	21°19'18	12° 6	6°13	9°48	16°55	10°18	9° 7	24°58	6°57	19°13	25° 4	26°40	1°28	n.a.	T 16
W17	5 27 11	22°20'31	23°58	5°43	11° 3	17°11	10°30	9° 8	24°56	6°59	19°13	25°D 3	26°36	1°35	n.a.	W17
T 18	5 31 7	23°21'42	5♒46	5°23	12°18	17°28	10°41	9° 8	24°54	7° 1	19°13	25° 3	26°33	1°42	n.a.	T 18
F 19	5 35 4	24°22'53	17°32	5°12	13°33	17°46	10°53	9° 9	24°51	7° 4	19°13	25° 5	26°30	1°48	n.a.	F 19
S 20	5 39 0	25°24'03	29°21	5°D 9	14°47	18° 4	11° 4	9° 9	24°49	7° 6	19°14	25° 7	26°27	1°55	n.a.	S 20
S 21	5 42 57	26°25'12	11♓17	5°15	16° 2	18°22	11°16	9° 9	24°47	7° 8	19°14	25° 9	26°24	2° 1	n.a.	S 21
M22	5 46 53	27°26'19	23°25	5°28	17°17	18°41	11°27	9°R 9	24°45	7°10	19°14	25°R 9	26°21	2° 8	n.a.	M22
T 23	5 50 50	28°27'26	5♈50	5°49	18°32	19° 0	11°38	9° 9	24°43	7°13	19°15	25° 9	26°17	2°15	n.a.	T 23
W24	5 54 46	29°28'31	18°37	6°15	19°47	19°20	11°49	9° 9	24°40	7°15	19°15	25° 8	26°14	2°21	n.a.	W24
T 25	5 58 43	0♉29'36	1♉50	6°48	21° 2	19°40	12° 0	9° 9	24°38	7°17	19°15	25° 5	26°11	2°28	n.a.	T 25
F 26	6 2 40	1°30'39	15°29	7°26	22°17	20° 0	12°11	9° 9	24°36	7°19	19°16	25° 2	26° 8	2°35	n.a.	F 26
S 27	6 6 36	2°31'41	29°37	8° 8	23°31	20°21	12°22	9° 8	24°33	7°22	19°16	24°59	26° 5	2°41	n.a.	S 27
S 28	6 10 33	3°32'42	14♊ 9	8°55	24°46	20°42	12°33	9° 8	24°31	7°24	19°17	24°56	26° 1	2°48	n.a.	S 28
M29	6 14 29	4°33'42	29° 1	9°46	26° 1	21° 4	12°43	9° 7	24°29	7°26	19°17	24°53	25°58	2°55	n.a.	M29
T 30	6 18 26	5°34'40	14♋ 4	10°40	27°16	21°25	12°54	9° 6	24°26	7°29	19°18	24°52	25°55	3° 1	n.a.	T 30
W31	6 22 22	6♉35'38	29♋ 9	11♐38	28♉30	21♈48	13♏ 5	9♍ 5	24♋24	7♉31	19♓18	24°D52	25♋52	3♒ 8	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	21s33	20n27	2s57	23s17	0n 7	24s27	1s 3	6n12	0n44	13s15	0n54	10n24	2n11	21n54	0n37	23s11	0n22	20s 9	17s20	21n13	20n54	20s38			n.a.
T 2	21 44	21 49	1 47	22 57	0 26	24 33	1 5	6 17	0 46	13 19	0 54	10 23	2 11	21 54	0 37	23 11	0 22	20 9	17 19	21 14	20 55	20 37			n.a.
W 3	21 54	21 40	0 30	22 35	0 45	24 39	1 6	6 21	0 47	13 23	0 54	10 22	2 11	21 55	0 37	23 11	0 22	20 9	17 19	21 14	20 56	20 37			n.a.
T 4	22 4	20 4	0n49	22 12	1 5	24 45	1 8	6 26	0 49	13 27	0 54	10 22	2 11	21 55	0 37	23 11	0 22	20 9	17 18	21 14	20 56	20 36			n.a.
F 5	22 13	17 11	2 4	21 48	1 25	24 49	1 10	6 32	0 50	13 31	0 54	10 21	2 12	21 55	0 37	23 11	0 22	20 8	17 18	21 14	20 57	20 35			n.a.
S 6	22 22	13 19	3 9	21 23	1 45	24 53	1 12	6 37	0 51	13 35	0 54	10 21	2 12	21 56	0 37	23 11	0 22	20 8	17 18	21 13	20 57	20 35			n.a.
S 7	22 30	8 49	4 3	20 57	2 3	24 55	1 13	6 43	0 53	13 39	0 54	10 21	2 12	21 56	0 37	23 11	0 22	20 8	17 17	21 13	20 58	20 34			n.a.
M 8	22 38	3 57	4 41	20 32	2 20	24 57	1 15	6 48	0 54	13 43	0 54	10 20	2 12	21 56	0 37	23 11	0 22	20 7	17 17	21 14	20 59	20 34			n.a.
T 9	22 46	1s 1	5 4	20 7	2 36	24 59	1 16	6 54	0 55	13 47	0 54	10 20	2 13	21 57	0 37	23 11	0 22	20 7	17 17	21 14	20 59	20 33			n.a.
W10	22 53	5 51	5 10	19 44	2 49	24 59	1 18	7 1	0 57	13 51	0 54	10 20	2 13	21 57	0 37	23 11	0 22	20 7	17 16	21 15	21 0	20 32			n.a.
T 11	22 59	10 21	5 0	19 22	3 0	24 59	1 19	7 7	0 58	13 55	0 54	10 20	2 13	21 57	0 37	23 11	0 22	20 6	17 16	21 17	21 1	20 32			n.a.
F 12	23 5	14 19	4 35	19 3	3 9	24 58	1 21	7 14	0 59	13 59	0 54	10 19	2 14	21 58	0 37	23 10	0 22	20 6	17 16	21 18	21 1	20 31			n.a.
S 13	23 11	17 36	3 57	18 47	3 15	24 56	1 22	7 20	1 0	14 2	0 54	10 19	2 14	21 58	0 37	23 10	0 22	20 5	17 15	21 19	21 2	20 31			n.a.
S 14	23 16	20 1	3 9	18 34	3 19	24 54	1 23	7 27	1 1	14 6	0 54	10 19	2 14	21 59	0 37	23 10	0 22	20 5	17 15	21 20	21 2	20 30			n.a.
M15	23 21	21 30	2 12	18 25	3 21	24 50	1 25	7 34	1 2	14 10	0 54	10 19	2 14	21 59	0 37	23 10	0 22	20 5	17 14	21 21	21 3	20 29			n.a.
T 16	23 25	21 59	1 10	18 18	3 20	24 46	1 26	7 41	1 3	14 14	0 54	10 19	2 15	21 59	0 37	23 10	0 22	20 4	17 14	21 22	21 4	20 29			n.a.
W17	23 29	21 28	0 6	18 15	3 18	24 41	1 27	7 49	1 4	14 17	0 54	10 19	2 15	22 0	0 37	23 10	0 21	20 4	17 14	21 22	21 4	20 28			n.a.
T 18	23 33	19 59	0s58	18 15	3 15	24 36	1 28	7 56	1 5	14 21	0 54	10 19	2 15	22 0	0 37	23 10	0 21	20 3	17 13	21 22	21 5	20 28			n.a.
F 19	23 35	17 40	2 0	18 18	3 10	24 29	1 29	8 4	1 6	14 24	0 54	10 19	2 16	22 1	0 37	23 10	0 21	20 3	17 13	21 22	21 6	20 27			n.a.
S 20	23 38	14 36	2 57	18 23	3 4	24 22	1 30	8 12	1 7	14 28	0 54	10 19	2 16	22 1	0 37	23 10	0 21	20 2	17 13	21 21	21 6	20 26			n.a.
S 21	23 40	10 55	3 47	18 31	2 57	24 14	1 31	8 20	1 8	14 32	0 54	10 20	2 16	22 1	0 37	23 10	0 21	20 2	17 12	21 21	21 7	20 26			n.a.
M22	23 41	6 44	4 28	18 41	2 49	24 5	1 31	8 28	1 9	14 35	0 54	10 20	2 16	22 2	0 37	23 9	0 21	20 2	17 12	21 21	21 7	20 25			n.a.
T 23	23 42	2 12	4 57	18 53	2 41	23 56	1 32	8 36	1 10	14 39	0 54	10 20	2 17	22 2	0 37	23 9	0 21	20 1	17 11	21 21	21 8	20 24			n.a.
W24	23 43	2n33	5 13	19 6	2 32	23 46	1 33	8 44	1 11	14 42	0 54	10 20	2 17	22 3	0 37	23 9	0 21	20 1	17 11	21 21	21 9	20 24			n.a.
T 25	23 43	7 21	5 13	19 20	2 23	23 35	1 33	8 53	1 11	14 45	0 54	10 21	2 17	22 3	0 37	23 9	0 21	20 0	17 11	21 21	21 9	20 23			n.a.
F 26	23 42	11 57	4 55	19 36	2 14	23 23	1 34	9 1	1 12	14 49	0 54	10 21	2 18	22 4	0 37	23 9	0 21	20 0	17 10	21 22	21 10	20 22			n.a.
S 27	23 41	16 4	4 20	19 52	2 4	23 11	1 34	9 10	1 13	14 52	0 54	10 22	2 18	22 4	0 37	23 9	0 21	19 59	17 10	21 23	21 10	20 22			n.a.
S 28	23 40	19 21	3 26	20 9	1 55	22 58	1 35	9 18	1 14	14 55	0 54	10 22	2 18	22 5	0 37	23 9	0 21	19 59	17 10	21 23	21 11	20 21			n.a.
M29	23 38	21 24	2 18	20 26	1 45	22 44	1 35	9 27	1 14	14 58	0 54	10 22	2 18	22 5	0 38	23 9	0 21	19 58	17 9	21 24	21 12	20 20			n.a.
T 30	23 36	21 58	0 59	20 44	1 35	22 30	1 35	9 36	1 15	15 2	0 54	10 23	2 19	22 5	0 38	23 9	0 21	19 58	17 9	21 24	21 12	20 19			n.a.
W31	23s33	20n57	0n24	21s 1	1n25	22s15	1s35	9n45	1n16	15s 5	0n54	10n24	2n19	22n 6	0n38	23s 8	0n21	19s57	17s 9	21n24	21n13	20s19			n.a.

Julian Day Number = 1669891.5, Delta T = 03h21m08s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'52, Lahiri = - 5°53'52 Julian Calendar 1 Dec. 142 BCE == Greg. Calendar 28 Nov. 142 BCE

The year -141 astronomical counting style corresponds to year 142 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

JANUARY 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 26 19	7♉36'35	14♌ 8	12♐38	29♉45	22♈10	13♏15	9°R 4	24°R21	7♉33	19♓19	24♋52	25♋49	3♒15	n.a.	T 1
F 2	6 30 16	8°37'30	28°54	13°41	1♒ 0	22°33	13°25	9♏ 3	24♋19	7°35	19°19	24°54	25°46	3°21	n.a.	F 2
S 3	6 34 12	9°38'25	13♍20	14°47	2°14	22°56	13°35	9° 2	24°16	7°38	19°20	24°55	25°42	3°28	n.a.	S 3
S 4	6 38 9	10°39'19	27°24	15°55	3°29	23°19	13°46	9° 1	24°14	7°40	19°20	24°56	25°39	3°35	n.a.	S 4
M 5	6 42 5	11°40'11	11♎ 5	17° 5	4°43	23°43	13°56	9° 0	24°11	7°42	19°21	24°R56	25°36	3°41	n.a.	M 5
T 6	6 46 2	12°41'03	24°25	18°16	5°58	24° 7	14° 5	8°58	24° 9	7°44	19°22	24°56	25°33	3°48	n.a.	T 6
W 7	6 49 58	13°41'54	7♏24	19°30	7°12	24°32	14°15	8°56	24° 6	7°47	19°22	24°55	25°30	3°54	n.a.	W 7
T 8	6 53 55	14°42'43	20° 6	20°45	8°27	24°56	14°25	8°55	24° 4	7°49	19°23	24°54	25°27	4° 1	n.a.	T 8
F 9	6 57 51	15°43'32	2♐33	22° 2	9°41	25°21	14°35	8°53	24° 1	7°51	19°24	24°52	25°23	4° 8	n.a.	F 9
S 10	7 1 48	16°44'19	14°49	23°20	10°56	25°46	14°44	8°51	23°58	7°54	19°25	24°51	25°20	4°14	n.a.	S 10
S 11	7 5 45	17°45'05	26°54	24°39	12°10	26°12	14°53	8°49	23°56	7°56	19°25	24°50	25°17	4°21	n.a.	S 11
M12	7 9 41	18°45'50	8♉52	26° 0	13°24	26°37	15° 3	8°47	23°53	7°58	19°26	24°49	25°14	4°28	n.a.	M12
T 13	7 13 38	19°46'33	20°44	27°22	14°39	27° 3	15°12	8°45	23°51	8° 0	19°27	24°D49	25°11	4°34	n.a.	T 13
W14	7 17 34	20°47'14	2♒32	28°45	15°53	27°29	15°21	8°43	23°48	8° 3	19°28	24°49	25° 7	4°41	n.a.	W14
T 15	7 21 31	21°47'54	14°19	0♉10	17° 7	27°56	15°30	8°40	23°45	8° 5	19°29	24°49	25° 4	4°48	n.a.	T 15
F 16	7 25 27	22°48'33	26° 7	1°35	18°21	28°22	15°38	8°38	23°43	8° 7	19°29	24°50	25° 1	4°54	n.a.	F 16
S 17	7 29 24	23°49'09	7♓59	3° 2	19°35	28°49	15°47	8°35	23°40	8° 9	19°30	24°50	24°58	5° 1	n.a.	S 17
S 18	7 33 20	24°49'44	19°58	4°29	20°50	29°16	15°56	8°33	23°38	8°11	19°31	24°R50	24°55	5° 8	n.a.	S 18
M19	7 37 17	25°50'16	2♈ 7	5°58	22° 4	29°44	16° 4	8°30	23°35	8°14	19°32	24°50	24°52	5°14	n.a.	M19
T 20	7 41 14	26°50'47	14°31	7°27	23°18	0♉11	16°12	8°27	23°32	8°16	19°33	24°50	24°48	5°21	n.a.	T 20
W21	7 45 10	27°51'16	27°13	8°58	24°32	0°39	16°20	8°24	23°30	8°18	19°34	24°D50	24°45	5°28	n.a.	W21
T 22	7 49 7	28°51'43	10♉17	10°29	25°46	1° 7	16°28	8°21	23°27	8°20	19°35	24°50	24°42	5°34	n.a.	T 22
F 23	7 53 3	29°52'08	23°47	12° 2	27° 0	1°35	16°36	8°18	23°24	8°22	19°36	24°50	24°39	5°41	n.a.	F 23
S 24	7 57 0	0♒52'30	7♊43	13°35	28°13	2° 3	16°44	8°15	23°22	8°24	19°37	24°51	24°36	5°47	n.a.	S 24
S 25	8 0 56	1°52'51	22° 6	15° 9	29°27	2°31	16°51	8°12	23°19	8°27	19°38	24°51	24°33	5°54	n.a.	S 25
M26	8 4 53	2°53'10	6♋53	16°45	0♓41	3° 0	16°59	8° 8	23°17	8°29	19°39	24°52	24°29	6° 1	n.a.	M26
T 27	8 8 49	3°53'27	21°57	18°21	1°55	3°29	17° 6	8° 5	23°14	8°31	19°40	24°R52	24°26	6° 7	n.a.	T 27
W28	8 12 46	4°53'42	7♌11	19°59	3° 8	3°58	17°13	8° 2	23°12	8°33	19°41	24°52	24°23	6°14	n.a.	W28
T 29	8 16 43	5°53'55	22°25	21°37	4°22	4°27	17°20	7°58	23° 9	8°35	19°42	24°51	24°20	6°21	n.a.	T 29
F 30	8 20 39	6°54'06	7♍28	23°16	5°36	4°56	17°27	7°54	23° 6	8°37	19°43	24°50	24°17	6°27	n.a.	F 30
S 31	8 24 36	7♒54'15	22♍13	24♉57	6♓49	5♉26	17♏34	7♍51	23♋ 4	8♉39	19♓44	24♋48	24♋13	6♒34	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23 s29	18n27	1n45	21 s19	1n16	21 s59	1 s36	9n54	1n16	15 s 8	0n54	10n24	2n19	22n 6	0n38	23 s 8	0n21	19 s56	17 s 8	21n24	21n13	20 s18			n.a.
F 2	23 26	14 46	2 58	21 36	1 6	21 43	1 36	10 4	1 17	15 11	0 54	10 25	2 20	22 7	0 38	23 8	0 21	19 56	17 8	21 24	21 14	20 17			n.a.
S 3	23 21	10 16	3 58	21 54	0 57	21 26	1 36	10 13	1 18	15 14	0 54	10 26	2 20	22 7	0 38	23 8	0 21	19 55	17 8	21 23	21 15	20 17			n.a.
S 4	23 17	5 20	4 41	22 10	0 47	21 9	1 35	10 22	1 18	15 17	0 54	10 26	2 20	22 8	0 38	23 8	0 21	19 55	17 7	21 23	21 15	20 16			n.a.
M 5	23 12	0 17	5 8	22 27	0 38	20 50	1 35	10 32	1 19	15 20	0 54	10 27	2 20	22 8	0 38	23 8	0 21	19 54	17 7	21 23	21 16	20 15			n.a.
T 6	23 6	4 s39	5 17	22 42	0 29	20 32	1 35	10 41	1 19	15 23	0 54	10 28	2 21	22 9	0 38	23 8	0 21	19 54	17 7	21 23	21 16	20 14			n.a.
W 7	23 0	9 15	5 10	22 57	0 20	20 12	1 35	10 51	1 20	15 26	0 54	10 29	2 21	22 9	0 38	23 8	0 21	19 53	17 6	21 23	21 17	20 14			n.a.
T 8	22 53	13 21	4 47	23 12	0 11	19 52	1 34	11 0	1 20	15 29	0 55	10 30	2 21	22 10	0 38	23 7	0 21	19 53	17 6	21 24	21 18	20 13			n.a.
F 9	22 46	16 48	4 11	23 25	0 3	19 32	1 34	11 10	1 21	15 31	0 55	10 31	2 21	22 10	0 38	23 7	0 21	19 52	17 6	21 24	21 18	20 12			n.a.
S 10	22 39	19 27	3 25	23 38	0 s 5	19 11	1 33	11 20	1 21	15 34	0 55	10 32	2 22	22 11	0 38	23 7	0 21	19 51	17 5	21 24	21 19	20 11			n.a.
S 11	22 31	21 11	2 29	23 50	0 14	18 49	1 33	11 30	1 22	15 37	0 55	10 33	2 22	22 11	0 38	23 7	0 21	19 51	17 5	21 24	21 19	20 11			n.a.
M12	22 23	21 57	1 28	24 0	0 21	18 27	1 32	11 39	1 22	15 40	0 55	10 34	2 22	22 11	0 38	23 7	0 21	19 50	17 5	21 24	21 20	20 10			n.a.
T 13	22 14	21 43	0 23	24 10	0 29	18 5	1 31	11 49	1 23	15 42	0 55	10 35	2 22	22 12	0 38	23 7	0 21	19 50	17 4	21 24	21 20	20 9			n.a.
W14	22 5	20 31	0 s43	24 19	0 37	17 42	1 30	11 59	1 23	15 45	0 55	10 36	2 23	22 12	0 38	23 7	0 21	19 49	17 4	21 24	21 21	20 8			n.a.
T 15	21 55	18 25	1 46	24 26	0 44	17 18	1 30	12 9	1 24	15 47	0 55	10 37	2 23	22 13	0 38	23 7	0 21	19 48	17 4	21 24	21 22	20 8			n.a.
F 16	21 45	15 33	2 46	24 33	0 51	16 54	1 29	12 19	1 24	15 50	0 55	10 38	2 23	22 13	0 38	23 6	0 21	19 48	17 3	21 24	21 22	20 7			n.a.
S 17	21 35	12 2	3 38	24 38	0 57	16 30	1 28	12 29	1 24	15 52	0 55	10 39	2 23	22 14	0 38	23 6	0 21	19 47	17 3	21 24	21 23	20 6			n.a.
S 18	21 24	8 1	4 21	24 42	1 4	16 5	1 26	12 39	1 25	15 55	0 55	10 40	2 24	22 14	0 38	23 6	0 21	19 46	17 3	21 24	21 23	20 5			n.a.
M19	21 13	3 38	4 54	24 44	1 10	15 39	1 25	12 50	1 25	15 57	0 55	10 42	2 24	22 15	0 38	23 6	0 21	19 46	17 2	21 24	21 24	20 5			n.a.
T 20	21 2	0n59	5 13	24 46	1 16	15 14	1 24	13 0	1 25	16 0	0 55	10 43	2 24	22 15	0 38	23 6	0 21	19 45	17 2	21 24	21 25	20 4			n.a.
W21	20 50	5 40	5 18	24 46	1 22	14 48	1 23	13 10	1 26	16 2	0 55	10 44	2 24	22 16	0 38	23 6	0 21	19 45	17 2	21 24	21 25	20 3			n.a.
T 22	20 37	10 13	5 7	24 44	1 27	14 21	1 21	13 20	1 26	16 4	0 55	10 46	2 25	22 16	0 38	23 6	0 21	19 44	17 2	21 24	21 26	20 2			n.a.
F 23	20 25	14 26	4 39	24 41	1 32	13 54	1 20	13 30	1 26	16 6	0 55	10 47	2 25	22 17	0 38	23 6	0 21	19 43	17 1	21 24	21 26	20 1			n.a.
S 24	20 11	18 0	3 53	24 37	1 37	13 27	1 18	13 40	1 27	16 8	0 56	10 48	2 25	22 17	0 38	23 5	0 21	19 43	17 1	21 24	21 27	20 0			n.a.
S 25	19 58	20 36	2 52	24 31	1 41	12 59	1 17	13 51	1 27	16 10	0 56	10 50	2 25	22 17	0 38	23 5	0 21	19 42	17 1	21 24	21 27	20 0			n.a.
M26	19 44	21 54	1 38	24 23	1 45	12 31	1 15	14 1	1 27	16 13	0 56	10 51	2 25	22 18	0 38	23 5	0 21	19 41	17 0	21 24	21 28	19 59			n.a.
T 27	19 30	21 38	0 16	24 14	1 49	12 3	1 13	14 11	1 28	16 15	0 56	10 53	2 26	22 18	0 38	23 5	0 21	19 41	17 0	21 24	21 29	19 58			n.a.
W28	19 15	19 47	1n 8	24 3	1 52	11 35	1 11	14 21	1 28	16 17	0 56	10 54	2 26	22 19	0 38	23 5	0 21	19 40	17 0	21 24	21 29	19 57			n.a.
T 29	19 1	16 31	2 27	23 51	1 55	11 6	1 10	14 32	1 28	16 18	0 56	10 56	2 26	22 19	0 38	23 5	0 21	19 39	17 0	21 24	21 30	19 56			n.a.
F 30	18 45	12 11	3 35	23 37	1 58	10 37	1 8	14 42	1 28	16 20	0 56	10 57	2 26	22 20	0 38	23 5	0 21	19 39	16 59	21 24	21 30	19 55			n.a.
S 31	18 s30	7n12	4n27	23 s21	2 s 0	10 s 7	1 s 6	14n52	1n29	16 s22	0n56	10n59	2n27	22n20	0n38	23 s 5	0n21	19 s38	16 s59	21n25	21n31	19 s55			n.a.

Julian Day Number = 1669922.5, Delta T = 03h21m07s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'48, Lahiri = - 5°53'48 Julian Calendar 1 Jan. 141 BCE == Greg. Calendar 29 Dec. 142 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

FEBRUARY 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 28 32	8♒54'22	6♎34	26♑38	8♓ 3	5♉55	17♏41	7°R47	23°R 1	8♑41	19♓45	24°R47	24♋10	6♒41	n.a.	S 1
M 2	8 32 29	9°54'28	20°28	28°21	9°16	6°25	17°47	7♍43	22♋59	8°43	19°46	24♋45	24° 7	6°47	n.a.	M 2
T 3	8 36 25	10°54'32	3♏54	0♒ 4	10°29	6°55	17°53	7°39	22°56	8°45	19°48	24°45	24° 4	6°54	n.a.	T 3
W 4	8 40 22	11°54'35	16°54	1°49	11°43	7°25	18° 0	7°36	22°54	8°47	19°49	24°D44	24° 1	7° 1	n.a.	W 4
T 5	8 44 18	12°54'36	29°33	3°35	12°56	7°55	18° 6	7°32	22°52	8°49	19°50	24°45	23°58	7° 7	n.a.	T 5
F 6	8 48 15	13°54'35	11♐53	5°21	14° 9	8°25	18°11	7°28	22°49	8°51	19°51	24°47	23°54	7°14	n.a.	F 6
S 7	8 52 12	14°54'32	23°59	7° 9	15°22	8°56	18°17	7°23	22°47	8°53	19°52	24°48	23°51	7°21	n.a.	S 7
S 8	8 56 8	15°54'28	5♑55	8°59	16°36	9°26	18°23	7°19	22°44	8°55	19°53	24°50	23°48	7°27	n.a.	S 8
M 9	9 0 5	16°54'22	17°45	10°49	17°49	9°57	18°28	7°15	22°42	8°57	19°55	24°51	23°45	7°34	n.a.	M 9
T 10	9 4 1	17°54'13	29°32	12°40	19° 2	10°28	18°33	7°11	22°40	8°59	19°56	24°R51	23°42	7°41	n.a.	T 10
W11	9 7 58	18°54'03	11♒19	14°33	20°14	10°59	18°38	7° 7	22°38	9° 1	19°57	24°50	23°39	7°47	n.a.	W11
T 12	9 11 54	19°53'51	23° 8	16°26	21°27	11°30	18°43	7° 2	22°35	9° 2	19°58	24°47	23°35	7°54	n.a.	T 12
F 13	9 15 51	20°53'36	5♓ 1	18°21	22°40	12° 1	18°48	6°58	22°33	9° 4	20° 0	24°44	23°32	8° 0	n.a.	F 13
S 14	9 19 47	21°53'20	17° 0	20°17	23°53	12°32	18°52	6°54	22°31	9° 6	20° 1	24°39	23°29	8° 7	n.a.	S 14
S 15	9 23 44	22°53'01	29° 8	22°13	25° 6	13° 4	18°56	6°49	22°29	9° 8	20° 2	24°34	23°26	8°14	n.a.	S 15
M16	9 27 40	23°52'39	11♈25	24°11	26°18	13°35	19° 1	6°45	22°27	9°10	20° 3	24°29	23°23	8°20	n.a.	M16
T 17	9 31 37	24°52'16	23°54	26°10	27°31	14° 7	19° 5	6°40	22°24	9°11	20° 5	24°25	23°19	8°27	n.a.	T 17
W18	9 35 34	25°51'50	6♉38	28° 9	28°43	14°39	19° 9	6°36	22°22	9°13	20° 6	24°22	23°16	8°34	n.a.	W18
T 19	9 39 30	26°51'22	19°40	0♓ 9	29°56	15°10	19°12	6°31	22°20	9°15	20° 7	24°21	23°13	8°40	n.a.	T 19
F 20	9 43 27	27°50'51	3♊ 2	2° 9	1♈ 8	15°42	19°16	6°27	22°18	9°16	20° 9	24°D20	23°10	8°47	n.a.	F 20
S 21	9 47 23	28°50'18	16°46	4°10	2°20	16°14	19°19	6°22	22°16	9°18	20°10	24°21	23° 7	8°54	n.a.	S 21
S 22	9 51 20	29°49'43	0♋53	6°11	3°32	16°47	19°22	6°17	22°15	9°20	20°11	24°23	23° 4	9° 0	n.a.	S 22
M23	9 55 16	0♓49'05	15°23	8°12	4°44	17°19	19°25	6°13	22°13	9°21	20°13	24°24	23° 0	9° 7	n.a.	M23
T 24	9 59 13	1°48'25	0♌13	10°13	5°56	17°51	19°28	6° 8	22°11	9°23	20°14	24°R24	22°57	9°14	n.a.	T 24
W25	10 3 9	2°47'43	15°16	12°13	7° 8	18°23	19°30	6° 4	22° 9	9°24	20°16	24°23	22°54	9°20	n.a.	W25
T 26	10 7 6	3°46'58	0♍25	14°12	8°20	18°56	19°33	5°59	22° 7	9°26	20°17	24°19	22°51	9°27	n.a.	T 26
F 27	10 11 3	4°46'11	15°31	16°10	9°32	19°28	19°35	5°54	22° 5	9°27	20°18	24°14	22°48	9°34	n.a.	F 27
S 28	10 14 59	5°45'22	0♎23	18° 6	10°44	20° 1	19°37	5°50	22° 4	9°29	20°20	24° 8	22°44	9°40	n.a.	S 28
S 29	10 18 56	6♓44'30	14♎53	20♓ 0	11♈55	20♉34	19♏39	5♍45	22♋ 2	9♑30	20♓21	24♋ 1	22♋41	9♒47	n.a.	S 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s14	1n58	5n 1	23s 3	2s 2	9s38	1s 4	15n 2	1n29	16s24	0n56	11n 1	2n27	22n21	0n38	23s 4	0n21	19s37	16s59	21n25	21n31	19s54		n.a.
M 2	17 58	3s12	5 16	22 44	2 3	9 8	1 1	15 12	1 29	16 26	0 56	11 2	2 27	22 21	0 38	23 4	0 21	19 37	16 59	21 25	21 32	19 53		n.a.
T 3	17 42	8 3	5 13	22 23	2 4	8 38	0 59	15 23	1 29	16 27	0 56	11 4	2 27	22 21	0 38	23 4	0 21	19 36	16 58	21 25	21 32	19 52		n.a.
W 4	17 25	12 23	4 54	22 0	2 5	8 7	0 57	15 33	1 29	16 29	0 56	11 5	2 27	22 22	0 38	23 4	0 21	19 35	16 58	21 25	21 33	19 51		n.a.
T 5	17 8	16 2	4 21	21 36	2 5	7 37	0 55	15 43	1 30	16 31	0 56	11 7	2 27	22 22	0 38	23 4	0 21	19 35	16 58	21 25	21 34	19 50		n.a.
F 6	16 50	18 54	3 36	21 9	2 5	7 6	0 52	15 53	1 30	16 32	0 57	11 9	2 28	22 23	0 38	23 4	0 21	19 34	16 58	21 25	21 34	19 49		n.a.
S 7	16 33	20 52	2 43	20 41	2 4	6 36	0 50	16 3	1 30	16 34	0 57	11 10	2 28	22 23	0 38	23 4	0 21	19 33	16 58	21 25	21 35	19 48		n.a.
S 8	16 15	21 52	1 43	20 11	2 3	6 5	0 47	16 13	1 30	16 35	0 57	11 12	2 28	22 23	0 38	23 4	0 21	19 33	16 57	21 24	21 35	19 48		n.a.
M 9	15 57	21 52	0 39	19 39	2 1	5 33	0 45	16 23	1 30	16 37	0 57	11 14	2 28	22 24	0 38	23 3	0 21	19 32	16 57	21 24	21 36	19 47		n.a.
T 10	15 38	20 54	0s26	19 5	1 59	5 2	0 42	16 33	1 30	16 38	0 57	11 16	2 28	22 24	0 38	23 3	0 21	19 31	16 57	21 24	21 36	19 46		n.a.
W11	15 20	19 1	1 30	18 30	1 56	4 31	0 40	16 43	1 30	16 39	0 57	11 17	2 28	22 25	0 38	23 3	0 21	19 31	16 57	21 24	21 37	19 45		n.a.
T 12	15 1	16 19	2 30	17 52	1 52	3 59	0 37	16 53	1 31	16 41	0 57	11 19	2 28	22 25	0 38	23 3	0 21	19 30	16 57	21 25	21 37	19 44		n.a.
F 13	14 42	12 55	3 23	17 13	1 49	3 28	0 34	17 3	1 31	16 42	0 57	11 21	2 29	22 25	0 38	23 3	0 21	19 29	16 56	21 25	21 38	19 43		n.a.
S 14	14 22	9 0	4 8	16 32	1 44	2 56	0 31	17 13	1 31	16 43	0 57	11 23	2 29	22 26	0 38	23 3	0 21	19 29	16 56	21 26	21 39	19 42		n.a.
S 15	14 3	4 40	4 43	15 49	1 39	2 24	0 28	17 23	1 31	16 44	0 57	11 24	2 29	22 26	0 38	23 3	0 21	19 28	16 56	21 27	21 39	19 41		n.a.
M16	13 43	0 6	5 5	15 5	1 34	1 53	0 26	17 32	1 31	16 45	0 57	11 26	2 29	22 26	0 38	23 3	0 21	19 27	16 56	21 28	21 40	19 40		n.a.
T 17	13 23	4n32	5 13	14 18	1 27	1 21	0 23	17 42	1 31	16 46	0 57	11 28	2 29	22 27	0 38	23 2	0 21	19 27	16 56	21 29	21 40	19 39		n.a.
W18	13 3	9 4	5 6	13 31	1 21	0 49	0 20	17 52	1 31	16 47	0 57	11 30	2 29	22 27	0 38	23 2	0 21	19 26	16 56	21 29	21 41	19 38		n.a.
T 19	12 42	13 18	4 43	12 41	1 13	0 17	0 17	18 1	1 31	16 48	0 58	11 32	2 29	22 27	0 38	23 2	0 21	19 25	16 55	21 30	21 41	19 37		n.a.
F 20	12 21	17 0	4 5	11 50	1 5	0n15	0 14	18 11	1 31	16 49	0 58	11 33	2 29	22 28	0 38	23 2	0 21	19 25	16 55	21 30	21 42	19 36		n.a.
S 21	12 1	19 52	3 11	10 58	0 57	0 47	0 10	18 20	1 31	16 50	0 58	11 35	2 30	22 28	0 38	23 2	0 21	19 24	16 55	21 29	21 42	19 35		n.a.
S 22	11 40	21 38	2 5	10 5	0 48	1 19	0 7	18 30	1 31	16 51	0 58	11 37	2 30	22 28	0 38	23 2	0 21	19 23	16 55	21 29	21 43	19 34		n.a.
M23	11 18	22 0	0 49	9 11	0 38	1 50	0 4	18 39	1 32	16 51	0 58	11 39	2 30	22 29	0 38	23 2	0 21	19 23	16 55	21 29	21 43	19 34		n.a.
T 24	10 57	20 51	0n32	8 15	0 28	2 22	0 1	18 49	1 32	16 52	0 58	11 41	2 30	22 29	0 38	23 2	0 21	19 22	16 55	21 29	21 44	19 33		n.a.
W25	10 36	18 13	1 51	7 19	0 17	2 54	0n 2	18 58	1 32	16 53	0 58	11 42	2 30	22 29	0 38	23 2	0 21	19 21	16 55	21 29	21 45	19 32		n.a.
T 26	10 14	14 18	3 3	6 23	0 6	3 26	0 6	19 7	1 32	16 53	0 58	11 44	2 30	22 29	0 38	23 1	0 21	19 21	16 55	21 30	21 45	19 31		n.a.
F 27	9 52	9 29	4 2	5 27	0n 5	3 57	0 9	19 16	1 32	16 54	0 58	11 46	2 30	22 30	0 38	23 1	0 21	19 20	16 54	21 31	21 46	19 30		n.a.
S 28	9 30	4 11	4 44	4 30	0 17	4 29	0 12	19 25	1 32	16 54	0 58	11 48	2 30	22 30	0 38	23 1	0 21	19 19	16 54	21 32	21 46	19 29		n.a.
S 29	9s 8	1s14	5n 6	3s34	0n29	5n 0	0n15	19n34	1n32	16s55	0n58	11n50	2n30	22n30	0n37	23s 1	0n21	19s19	16s54	21n33	21n47	19s28		n.a.

Julian Day Number = 1669953.5, Delta T = 03h21m06s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'44, Lahiri = - 5°53'44 Julian Calendar 1 Feb. 141 BCE == Greg. Calendar 29 Jan. 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

MARCH 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 22 52	7♓43'37	28♎57	21♓51	13♈ 7	21♉ 7	19♏41	5°R40	22°R 1	9♑32	20♓22	23°R55	22♋38	9♒54	n.a.	M 1
T 2	10 26 49	8°42'42	12♏32	23°40	14°18	21°39	19°42	5♍36	21♋59	9°33	20°24	23♋51	22°35	10° 0	n.a.	T 2
W 3	10 30 45	9°41'45	25°39	25°25	15°29	22°12	19°43	5°31	21°57	9°34	20°25	23°48	22°32	10° 7	n.a.	W 3
T 4	10 34 42	10°40'47	8♐20	27° 7	16°41	22°45	19°45	5°26	21°56	9°36	20°27	23°D47	22°29	10°13	n.a.	T 4
F 5	10 38 38	11°39'46	20°41	28°45	17°52	23°19	19°46	5°22	21°55	9°37	20°28	23°47	22°25	10°20	n.a.	F 5
S 6	10 42 35	12°38'44	2♑45	0♈18	19° 3	23°52	19°46	5°17	21°53	9°38	20°29	23°48	22°22	10°27	n.a.	S 6
S 7	10 46 32	13°37'40	14°38	1°47	20°14	24°25	19°47	5°13	21°52	9°40	20°31	23°49	22°19	10°33	n.a.	S 7
M 8	10 50 28	14°36'34	26°26	3°10	21°25	24°58	19°47	5° 8	21°51	9°41	20°32	23°R50	22°16	10°40	n.a.	M 8
T 9	10 54 25	15°35'26	8♒12	4°29	22°36	25°32	19°R47	5° 3	21°49	9°42	20°34	23°49	22°13	10°47	n.a.	T 9
W10	10 58 21	16°34'16	20° 0	5°42	23°46	26° 5	19°47	4°59	21°48	9°43	20°35	23°45	22°10	10°53	n.a.	W10
T 11	11 2 18	17°33'04	1♓54	6°49	24°57	26°39	19°47	4°54	21°47	9°44	20°37	23°39	22° 6	11° 0	n.a.	T 11
F 12	11 6 14	18°31'50	13°55	7°51	26° 7	27°12	19°47	4°50	21°46	9°46	20°38	23°31	22° 3	11° 7	n.a.	F 12
S 13	11 10 11	19°30'34	26° 5	8°47	27°18	27°46	19°46	4°46	21°45	9°47	20°39	23°21	22° 0	11°13	n.a.	S 13
S 14	11 14 7	20°29'16	8♈26	9°37	28°28	28°20	19°45	4°41	21°44	9°48	20°41	23°11	21°57	11°20	n.a.	S 14
M15	11 18 4	21°27'55	20°58	10°20	29°38	28°53	19°45	4°37	21°43	9°49	20°42	23° 0	21°54	11°27	n.a.	M15
T 16	11 22 0	22°26'33	3♉41	10°58	0♉48	29°27	19°43	4°32	21°42	9°50	20°44	22°51	21°50	11°33	n.a.	T 16
W17	11 25 57	23°25'08	16°37	11°29	1°58	0♊ 1	19°42	4°28	21°41	9°51	20°45	22°43	21°47	11°40	n.a.	W17
T 18	11 29 54	24°23'41	29°46	11°54	3° 8	0°35	19°41	4°24	21°40	9°52	20°46	22°38	21°44	11°47	n.a.	T 18
F 19	11 33 50	25°22'12	13♊ 9	12°13	4°18	1° 9	19°39	4°20	21°40	9°52	20°48	22°35	21°41	11°53	n.a.	F 19
S 20	11 37 47	26°20'41	26°48	12°25	5°27	1°43	19°37	4°16	21°39	9°53	20°49	22°D35	21°38	12° 0	n.a.	S 20
S 21	11 41 43	27°19'07	10♋45	12°32	6°37	2°17	19°35	4°11	21°38	9°54	20°51	22°35	21°35	12° 7	n.a.	S 21
M22	11 45 40	28°17'31	24°58	12°R32	7°46	2°51	19°33	4° 7	21°38	9°55	20°52	22°R35	21°31	12°13	n.a.	M22
T 23	11 49 36	29°15'53	9♌28	12°27	8°56	3°26	19°30	4° 3	21°37	9°56	20°54	22°34	21°28	12°20	n.a.	T 23
W24	11 53 33	0♈14'13	24°10	12°16	10° 5	4° 0	19°28	3°59	21°37	9°56	20°55	22°31	21°25	12°27	n.a.	W24
T 25	11 57 29	1°12'30	9♍ 0	12° 0	11°14	4°34	19°25	3°56	21°36	9°57	20°56	22°25	21°22	12°33	n.a.	T 25
F 26	12 1 26	2°10'46	23°50	11°40	12°22	5° 9	19°22	3°52	21°36	9°58	20°58	22°17	21°19	12°40	n.a.	F 26
S 27	12 5 23	3° 8'59	8♎32	11°14	13°31	5°43	19°19	3°48	21°35	9°58	20°59	22° 7	21°15	12°46	n.a.	S 27
S 28	12 9 19	4° 7'11	22°58	10°46	14°40	6°18	19°16	3°44	21°35	9°59	21° 1	21°56	21°12	12°53	n.a.	S 28
M29	12 13 16	5° 5'21	7♏ 1	10°13	15°48	6°52	19°12	3°41	21°35	10° 0	21° 2	21°46	21° 9	13° 0	n.a.	M29
T 30	12 17 12	6° 3'29	20°38	9°38	16°56	7°27	19° 8	3°37	21°35	10° 0	21° 3	21°37	21° 6	13° 6	n.a.	T 30
W31	12 21 9	7♈ 1'36	3♐48	9♈ 2	18♉ 4	8♊ 1	19♏ 5	3♍34	21♋35	10♑ 1	21♓ 5	21♋31	21♋ 3	13♒13	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	8s46	6s25	5n 9	2s39	0n41	5n31	0n19	19n43	1n32	16s55	0n58	11n51	2n30	22n30	0n37	23s 1	0n21	19s18	16s54	21n34	21n47	19s27			n.a.
T 2	8 24	11 7	4 54	1 44	0 53	6 3	0 22	19 52	1 32	16 55	0 59	11 53	2 30	22 31	0 37	23 1	0 21	19 17	16 54	21 35	21 48	19 26			n.a.
W 3	8 1	15 7	4 23	0 51	1 5	6 34	0 26	20 0	1 32	16 56	0 59	11 55	2 30	22 31	0 37	23 1	0 21	19 17	16 54	21 35	21 48	19 25			n.a.
T 4	7 39	18 18	3 41	0n 1	1 17	7 4	0 29	20 9	1 32	16 56	0 59	11 57	2 30	22 31	0 37	23 1	0 21	19 16	16 54	21 36	21 49	19 24			n.a.
F 5	7 16	20 34	2 50	0 51	1 29	7 35	0 32	20 18	1 32	16 56	0 59	11 58	2 30	22 31	0 37	23 1	0 21	19 16	16 54	21 35	21 49	19 23			n.a.
S 6	6 53	21 49	1 52	1 40	1 41	8 6	0 36	20 26	1 32	16 56	0 59	12 0	2 30	22 31	0 37	23 1	0 21	19 15	16 54	21 35	21 50	19 22			n.a.
S 7	6 31	22 5	0 50	2 26	1 52	8 36	0 39	20 34	1 32	16 56	0 59	12 2	2 30	22 32	0 37	23 0	0 21	19 14	16 54	21 35	21 50	19 20			n.a.
M 8	6 8	21 20	0s14	3 9	2 3	9 6	0 43	20 43	1 32	16 56	0 59	12 4	2 30	22 32	0 37	23 0	0 21	19 14	16 54	21 35	21 51	19 19			n.a.
T 9	5 45	19 39	1 17	3 51	2 14	9 36	0 46	20 51	1 32	16 56	0 59	12 5	2 30	22 32	0 37	23 0	0 21	19 13	16 54	21 35	21 51	19 18			n.a.
W10	5 22	17 8	2 16	4 29	2 24	10 6	0 50	20 59	1 32	16 56	0 59	12 7	2 30	22 32	0 37	23 0	0 21	19 13	16 54	21 36	21 52	19 17			n.a.
T 11	4 58	13 52	3 10	5 4	2 33	10 35	0 53	21 7	1 32	16 56	0 59	12 9	2 30	22 32	0 37	23 0	0 21	19 12	16 54	21 37	21 52	19 16			n.a.
F 12	4 35	10 1	3 56	5 37	2 41	11 5	0 57	21 15	1 32	16 56	0 59	12 10	2 30	22 33	0 37	23 0	0 21	19 11	16 54	21 38	21 53	19 15			n.a.
S 13	4 12	5 43	4 31	6 6	2 49	11 34	1 0	21 22	1 32	16 56	0 59	12 12	2 30	22 33	0 37	23 0	0 21	19 11	16 54	21 40	21 53	19 14			n.a.
S 14	3 49	1 7	4 55	6 32	2 55	12 2	1 3	21 30	1 32	16 55	0 59	12 14	2 30	22 33	0 37	23 0	0 21	19 10	16 54	21 42	21 54	19 13			n.a.
M15	3 25	3n35	5 4	6 55	3 1	12 31	1 7	21 38	1 32	16 55	1 0	12 15	2 30	22 33	0 37	23 0	0 21	19 10	16 54	21 44	21 55	19 12			n.a.
T 16	3 2	8 12	4 59	7 14	3 6	12 59	1 10	21 45	1 32	16 55	1 0	12 17	2 30	22 33	0 37	23 0	0 21	19 9	16 54	21 45	21 55	19 11			n.a.
W17	2 39	12 32	4 39	7 29	3 9	13 27	1 14	21 52	1 32	16 54	1 0	12 18	2 30	22 33	0 37	23 0	0 21	19 8	16 54	21 46	21 56	19 10			n.a.
T 18	2 15	16 22	4 3	7 42	3 12	13 54	1 17	22 0	1 32	16 54	1 0	12 20	2 30	22 33	0 37	23 0	0 21	19 8	16 54	21 47	21 56	19 9			n.a.
F 19	1 52	19 25	3 14	7 50	3 13	14 22	1 21	22 7	1 31	16 53	1 0	12 21	2 30	22 33	0 37	23 0	0 21	19 7	16 54	21 48	21 57	19 8			n.a.
S 20	1 28	21 27	2 13	7 55	3 13	14 48	1 24	22 14	1 31	16 53	1 0	12 23	2 30	22 33	0 37	22 59	0 21	19 7	16 54	21 48	21 57	19 7			n.a.
S 21	1 5	22 14	1 3	7 56	3 11	15 15	1 27	22 21	1 31	16 52	1 0	12 24	2 30	22 34	0 37	22 59	0 21	19 6	16 54	21 48	21 58	19 6			n.a.
M22	0 41	21 35	0n13	7 54	3 9	15 41	1 31	22 28	1 31	16 51	1 0	12 26	2 30	22 34	0 37	22 59	0 21	19 6	16 54	21 48	21 58	19 4			n.a.
T 23	0 18	19 31	1 29	7 48	3 4	16 7	1 34	22 34	1 31	16 51	1 0	12 27	2 30	22 34	0 37	22 59	0 21	19 5	16 54	21 48	21 59	19 3			n.a.
W24	0n 6	16 7	2 40	7 38	2 59	16 32	1 37	22 41	1 31	16 50	1 0	12 29	2 30	22 34	0 37	22 59	0 21	19 5	16 54	21 48	21 59	19 2			n.a.
T 25	0 29	11 41	3 40	7 26	2 52	16 57	1 40	22 47	1 31	16 49	1 0	12 30	2 30	22 34	0 37	22 59	0 21	19 4	16 54	21 49	22 0	19 1			n.a.
F 26	0 53	6 32	4 26	7 10	2 44	17 22	1 44	22 53	1 31	16 48	1 0	12 31	2 30	22 34	0 37	22 59	0 21	19 4	16 54	21 51	22 0	19 0			n.a.
S 27	1 16	1 4	4 54	6 51	2 34	17 46	1 47	23 0	1 31	16 47	1 0	12 33	2 29	22 34	0 37	22 59	0 21	19 3	16 54	21 52	22 1	18 59			n.a.
S 28	1 39	4s21	5 2	6 29	2 23	18 10	1 50	23 6	1 31	16 46	1 0	12 34	2 29	22 34	0 37	22 59	0 21	19 3	16 54	21 54	22 1	18 58			n.a.
M29	2 3	9 25	4 52	6 5	2 11	18 33	1 53	23 12	1 31	16 45	1 0	12 35	2 29	22 34	0 37	22 59	0 21	19 2	16 54	21 56	22 2	18 57			n.a.
T 30	2 26	13 51	4 25	5 39	1 57	18 56	1 56	23 17	1 31	16 44	1 0	12 36	2 29	22 34	0 37	22 59	0 21	19 2	16 54	21 57	22 2	18 55			n.a.
W31	2n49	17s29	3n44	5n12	1n43	19n19	1n59	23n23	1n31	16s43	1n 0	12n38	2n29	22n34	0n37	22s59	0n21	19s 1	16s54	21n58	22n 3	18s54			n.a.

Julian Day Number = 1669982.5, Delta T = 03h21m05s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'40, Lahiri = - 5°53'40 Julian Calendar 1 March 141 BCE == Greg. Calendar 27 Feb. 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

APRIL 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 25 5	7♈59'41	16♐32	8°R23	19♉12	8♊36	19°R 1	3°R30	21°R35	10♑ 1	21♓ 6	21°R27	21♋ 0	13♒20	n.a.	T 1
F 2	12 29 2	8°57'45	28°56	7♈45	20°20	9°10	18♏57	3♍27	21°D35	10° 2	21° 7	21♋25	20°56	13°26	n.a.	F 2
S 3	12 32 58	9°55'47	11♑ 2	7° 6	21°28	9°45	18°52	3°24	21♋35	10° 2	21° 9	21°D25	20°53	13°33	n.a.	S 3
S 4	12 36 55	10°53'47	22°56	6°28	22°35	10°20	18°48	3°20	21°35	10° 2	21°10	21°R25	20°50	13°40	n.a.	S 4
M 5	12 40 51	11°51'47	4♒45	5°51	23°43	10°55	18°43	3°17	21°35	10° 3	21°12	21°24	20°47	13°46	n.a.	M 5
T 6	12 44 48	12°49'44	16°32	5°17	24°50	11°30	18°38	3°14	21°35	10° 3	21°13	21°22	20°44	13°53	n.a.	T 6
W 7	12 48 45	13°47'41	28°23	4°45	25°57	12° 5	18°33	3°11	21°35	10° 3	21°14	21°17	20°41	14° 0	n.a.	W 7
T 8	12 52 41	14°45'36	10♓23	4°16	27° 4	12°40	18°28	3° 8	21°36	10° 4	21°16	21°10	20°37	14° 6	n.a.	T 8
F 9	12 56 38	15°43'29	22°33	3°51	28°10	13°14	18°23	3° 5	21°36	10° 4	21°17	21° 0	20°34	14°13	n.a.	F 9
S 10	13 0 34	16°41'21	4♈56	3°29	29°17	13°50	18°18	3° 3	21°36	10° 4	21°18	20°48	20°31	14°20	n.a.	S 10
S 11	13 4 31	17°39'11	17°32	3°11	0♊23	14°25	18°12	3° 0	21°37	10° 4	21°19	20°35	20°28	14°26	n.a.	S 11
M12	13 8 27	18°37'00	0♉23	2°58	1°29	15° 0	18° 7	2°57	21°37	10° 4	21°21	20°22	20°25	14°33	n.a.	M12
T 13	13 12 24	19°34'47	13°26	2°49	2°35	15°35	18° 1	2°55	21°38	10° 4	21°22	20°10	20°21	14°40	n.a.	T 13
W14	13 16 20	20°32'32	26°41	2°D45	3°41	16°10	17°55	2°53	21°39	10° 4	21°23	20° 0	20°18	14°46	n.a.	W14
T 15	13 20 17	21°30'16	10♊ 7	2°45	4°47	16°45	17°49	2°50	21°39	10°R 4	21°25	19°53	20°15	14°53	n.a.	T 15
F 16	13 24 14	22°27'59	23°43	2°50	5°52	17°21	17°43	2°48	21°40	10° 4	21°26	19°50	20°12	15° 0	n.a.	F 16
S 17	13 28 10	23°25'39	7♋29	3° 0	6°57	17°56	17°37	2°46	21°41	10° 4	21°27	19°48	20° 9	15° 6	n.a.	S 17
S 18	13 32 7	24°23'18	21°25	3°14	8° 2	18°31	17°30	2°44	21°42	10° 4	21°28	19°48	20° 6	15°13	n.a.	S 18
M19	13 36 3	25°20'56	5♌30	3°33	9° 7	19° 7	17°24	2°42	21°43	10° 4	21°30	19°48	20° 2	15°20	n.a.	M19
T 20	13 40 0	26°18'31	19°45	3°55	10°11	19°42	17°17	2°40	21°44	10° 4	21°31	19°46	19°59	15°26	n.a.	T 20
W21	13 43 56	27°16'05	4♍ 7	4°23	11°15	20°17	17°10	2°38	21°45	10° 4	21°32	19°43	19°56	15°33	n.a.	W21
T 22	13 47 53	28°13'37	18°33	4°54	12°19	20°53	17° 4	2°37	21°46	10° 4	21°33	19°36	19°53	15°40	n.a.	T 22
F 23	13 51 49	29°11'08	2♎58	5°29	13°23	21°28	16°57	2°35	21°47	10° 3	21°34	19°28	19°50	15°46	n.a.	F 23
S 24	13 55 46	0♉ 8'38	17°17	6° 9	14°26	22° 4	16°50	2°34	21°48	10° 3	21°35	19°17	19°47	15°53	n.a.	S 24
S 25	13 59 43	1° 6'06	1♏23	6°52	15°29	22°40	16°43	2°32	21°49	10° 3	21°37	19° 6	19°43	16° 0	n.a.	S 25
M26	14 3 39	2° 3'33	15°12	7°38	16°32	23°15	16°36	2°31	21°50	10° 2	21°38	18°55	19°40	16° 6	n.a.	M26
T 27	14 7 36	3° 0'59	28°40	8°29	17°35	23°51	16°29	2°30	21°52	10° 2	21°39	18°45	19°37	16°13	n.a.	T 27
W28	14 11 32	3°58'24	11♐45	9°23	18°37	24°26	16°21	2°29	21°53	10° 2	21°40	18°38	19°34	16°20	n.a.	W28
T 29	14 15 29	4°55'48	24°28	10°20	19°39	25° 2	16°14	2°28	21°54	10° 1	21°41	18°33	19°31	16°26	n.a.	T 29
F 30	14 19 25	5♉53'11	6♑51	11♈21	20♊41	25♊38	16♏ 7	2♍27	21♋56	10♑ 1	21♓42	18♋31	19♋27	16♒33	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n12	20s 8	2n54	4n43	1n28	19n41	2n 2	23n29	1n30	16s42	1n 0	12n39	2n29	22n34	0n37	22s59	0n21	19s 1	16s54	21n59	22n 3	18s53		n.a.
F 2	3 36	21 46	1 56	4 13	1 12	20 2	2 5	23 34	1 30	16 41	1 0	12 40	2 29	22 34	0 37	22 59	0 21	19 0	16 54	21 59	22 4	18 52		n.a.
S 3	3 59	22 20	0 55	3 42	0 56	20 23	2 8	23 39	1 30	16 40	1 0	12 41	2 29	22 34	0 37	22 59	0 21	19 0	16 55	21 59	22 4	18 51		n.a.
S 4	4 22	21 52	0s 8	3 12	0 39	20 44	2 10	23 44	1 30	16 39	1 0	12 42	2 29	22 34	0 37	22 59	0 21	18 59	16 55	21 59	22 5	18 50		n.a.
M 5	4 45	20 26	1 10	2 41	0 22	21 4	2 13	23 49	1 30	16 37	1 0	12 43	2 28	22 34	0 37	22 59	0 21	18 59	16 55	21 59	22 5	18 48		n.a.
T 6	5 7	18 6	2 9	2 12	0 5	21 23	2 16	23 54	1 30	16 36	1 0	12 44	2 28	22 34	0 37	22 59	0 21	18 58	16 55	22 0	22 6	18 47		n.a.
W 7	5 30	15 1	3 3	1 44	0s12	21 42	2 18	23 59	1 30	16 35	1 1	12 45	2 28	22 34	0 37	22 59	0 21	18 58	16 55	22 0	22 6	18 46		n.a.
T 8	5 53	11 17	3 48	1 17	0 28	22 0	2 21	24 3	1 30	16 33	1 1	12 46	2 28	22 34	0 37	22 59	0 21	18 58	16 55	22 1	22 7	18 45		n.a.
F 9	6 15	7 2	4 25	0 52	0 44	22 18	2 23	24 8	1 30	16 32	1 1	12 47	2 28	22 33	0 37	22 59	0 21	18 57	16 55	22 3	22 7	18 44		n.a.
S 10	6 38	2 26	4 49	0 29	1 0	22 36	2 26	24 12	1 29	16 30	1 1	12 48	2 28	22 33	0 37	22 59	0 21	18 57	16 55	22 5	22 7	18 42		n.a.
S 11	7 0	2n21	5 0	0 8	1 15	22 52	2 28	24 16	1 29	16 29	1 1	12 49	2 28	22 33	0 36	22 59	0 21	18 56	16 56	22 7	22 8	18 41		n.a.
M12	7 23	7 7	4 56	0s10	1 29	23 9	2 30	24 20	1 29	16 27	1 1	12 49	2 28	22 33	0 36	22 59	0 21	18 56	16 56	22 9	22 8	18 40		n.a.
T 13	7 45	11 39	4 36	0 26	1 43	23 24	2 32	24 24	1 29	16 25	1 1	12 50	2 27	22 33	0 36	22 59	0 21	18 56	16 56	22 11	22 9	18 39		n.a.
W14	8 7	15 43	4 2	0 39	1 55	23 39	2 35	24 27	1 29	16 24	1 0	12 51	2 27	22 33	0 36	22 59	0 21	18 55	16 56	22 12	22 9	18 38		n.a.
T 15	8 29	19 2	3 13	0 50	2 7	23 54	2 36	24 31	1 29	16 22	1 0	12 52	2 27	22 33	0 36	22 59	0 21	18 55	16 56	22 13	22 10	18 36		n.a.
F 16	8 50	21 21	2 13	0 58	2 18	24 8	2 38	24 34	1 29	16 20	1 0	12 52	2 27	22 33	0 36	22 59	0 21	18 55	16 56	22 14	22 10	18 35		n.a.
S 17	9 12	22 25	1 5	1 3	2 28	24 21	2 40	24 37	1 28	16 19	1 0	12 53	2 27	22 32	0 36	22 59	0 21	18 54	16 57	22 14	22 11	18 34		n.a.
S 18	9 33	22 8	0n 9	1 6	2 37	24 34	2 42	24 41	1 28	16 17	1 0	12 53	2 27	22 32	0 36	22 59	0 21	18 54	16 57	22 14	22 11	18 33		n.a.
M19	9 55	20 26	1 22	1 6	2 45	24 46	2 44	24 43	1 28	16 15	1 0	12 54	2 26	22 32	0 36	22 59	0 21	18 54	16 57	22 14	22 12	18 31		n.a.
T 20	10 16	17 27	2 31	1 4	2 53	24 57	2 45	24 46	1 28	16 13	1 0	12 55	2 26	22 32	0 36	22 59	0 21	18 53	16 57	22 14	22 12	18 30		n.a.
W21	10 37	13 23	3 32	0 58	2 59	25 8	2 47	24 49	1 28	16 11	1 0	12 55	2 26	22 32	0 36	22 59	0 21	18 53	16 57	22 15	22 13	18 29		n.a.
T 22	10 58	8 32	4 18	0 51	3 4	25 18	2 48	24 51	1 28	16 10	1 0	12 55	2 26	22 32	0 36	22 59	0 21	18 53	16 58	22 16	22 13	18 28		n.a.
F 23	11 19	3 13	4 49	0 41	3 9	25 28	2 49	24 53	1 28	16 8	1 0	12 56	2 26	22 31	0 36	22 59	0 21	18 52	16 58	22 17	22 14	18 26		n.a.
S 24	11 39	2s14	5 1	0 28	3 12	25 36	2 50	24 56	1 27	16 6	1 0	12 56	2 26	22 31	0 36	22 59	0 21	18 52	16 58	22 18	22 14	18 25		n.a.
S 25	11 59	7 30	4 54	0 14	3 15	25 45	2 51	24 57	1 27	16 4	1 0	12 57	2 25	22 31	0 36	22 59	0 21	18 52	16 58	22 20	22 15	18 24		n.a.
M26	12 19	12 16	4 30	0n 3	3 17	25 52	2 52	24 59	1 27	16 2	1 0	12 57	2 25	22 31	0 36	22 59	0 21	18 52	16 58	22 22	22 15	18 23		n.a.
T 27	12 39	16 19	3 52	0 22	3 18	25 59	2 53	25 1	1 27	16 0	1 0	12 57	2 25	22 30	0 36	22 59	0 21	18 51	16 59	22 23	22 16	18 21		n.a.
W28	12 59	19 27	3 2	0 43	3 19	26 6	2 53	25 2	1 27	15 58	1 0	12 57	2 25	22 30	0 36	22 59	0 21	18 51	16 59	22 24	22 16	18 20		n.a.
T 29	13 19	21 32	2 4	1 6	3 18	26 12	2 54	25 4	1 27	15 56	1 0	12 58	2 25	22 30	0 36	22 59	0 21	18 51	16 59	22 25	22 16	18 19		n.a.
F 30	13n38	22s30	1n 2	1n31	3s17	26n17	2n54	25n 5	1n26	15s54	1n 0	12n58	2n24	22n30	0n36	22s59	0n21	18s51	16s59	22n25	22n17	18s17		n.a.

Julian Day Number = 1670013.5, Delta T = 03h21m04s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'36, Lahiri = - 5°53'35 Julian Calendar 1 Apr. 141 BCE == Greg. Calendar 29 March 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

MAY 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 23 22	6♉50'33	18♑58	12♈25	21♊42	26♊14	15°R59	2°R26	21♋57	10°R 0	21♓43	18°D31	19♋24	16♒40	n.a.	S 1
S 2	14 27 18	7°47'55	0♒54	13°32	22°43	26°49	15♏52	2♍25	21°59	10♑ 0	21°44	18♋31	19°21	16°46	n.a.	S 2
M 3	14 31 15	8°45'16	12°44	14°42	23°44	27°25	15°44	2°25	22° 0	9°59	21°45	18°R31	19°18	16°53	n.a.	M 3
T 4	14 35 12	9°42'36	24°34	15°55	24°44	28° 1	15°37	2°24	22° 2	9°59	21°46	18°30	19°15	17° 0	n.a.	T 4
W 5	14 39 8	10°39'56	6♓28	17°11	25°45	28°37	15°29	2°24	22° 4	9°58	21°47	18°27	19°12	17° 6	n.a.	W 5
T 6	14 43 5	11°37'15	18°32	18°30	26°44	29°13	15°22	2°24	22° 6	9°57	21°48	18°21	19° 8	17°13	n.a.	T 6
F 7	14 47 1	12°34'33	0♈49	19°52	27°44	29°49	15°14	2°24	22° 7	9°57	21°49	18°14	19° 5	17°20	n.a.	F 7
S 8	14 50 58	13°31'50	13°21	21°16	28°43	0♋25	15° 6	2°D23	22° 9	9°56	21°50	18° 4	19° 2	17°26	n.a.	S 8
S 9	14 54 54	14°29'07	26°12	22°44	29°41	1° 1	14°59	2°23	22°11	9°55	21°51	17°54	18°59	17°33	n.a.	S 9
M10	14 58 51	15°26'23	9♉20	24°14	0♋39	1°37	14°51	2°24	22°13	9°55	21°52	17°43	18°56	17°39	n.a.	M10
T 11	15 2 47	16°23'39	22°44	25°47	1°37	2°13	14°43	2°24	22°15	9°54	21°53	17°33	18°52	17°46	n.a.	T 11
W12	15 6 44	17°20'54	6♊23	27°23	2°34	2°49	14°36	2°24	22°17	9°53	21°54	17°26	18°49	17°53	n.a.	W12
T 13	15 10 41	18°18'08	20°12	29° 2	3°31	3°26	14°28	2°25	22°19	9°52	21°55	17°20	18°46	17°59	n.a.	T 13
F 14	15 14 37	19°15'21	4♋10	0♉43	4°28	4° 2	14°20	2°25	22°21	9°51	21°56	17°17	18°43	18° 6	n.a.	F 14
S 15	15 18 34	20°12'34	18°14	2°27	5°24	4°38	14°13	2°26	22°23	9°51	21°57	17°D17	18°40	18°13	n.a.	S 15
S 16	15 22 30	21° 9'46	2♌21	4°13	6°19	5°14	14° 5	2°26	22°25	9°50	21°57	17°17	18°37	18°19	n.a.	S 16
M17	15 26 27	22° 6'57	16°30	6° 3	7°14	5°50	13°58	2°27	22°28	9°49	21°58	17°R18	18°33	18°26	n.a.	M17
T 18	15 30 23	23° 4'07	0♍40	7°54	8° 8	6°27	13°50	2°28	22°30	9°48	21°59	17°18	18°30	18°33	n.a.	T 18
W19	15 34 20	24° 1'16	14°48	9°49	9° 2	7° 3	13°43	2°29	22°32	9°47	22° 0	17°16	18°27	18°39	n.a.	W19
T 20	15 38 16	24°58'24	28°54	11°45	9°55	7°40	13°35	2°30	22°35	9°46	22° 1	17°12	18°24	18°46	n.a.	T 20
F 21	15 42 13	25°55'32	12♎55	13°44	10°48	8°16	13°28	2°32	22°37	9°45	22° 1	17° 6	18°21	18°53	n.a.	F 21
S 22	15 46 10	26°52'39	26°47	15°46	11°40	8°52	13°21	2°33	22°39	9°44	22° 2	16°59	18°18	18°59	n.a.	S 22
S 23	15 50 6	27°49'46	10♏28	17°49	12°31	9°29	13°14	2°34	22°42	9°42	22° 3	16°51	18°14	19° 6	n.a.	S 23
M24	15 54 3	28°46'52	23°54	19°54	13°22	10° 5	13° 6	2°36	22°44	9°41	22° 3	16°43	18°11	19°13	n.a.	M24
T 25	15 57 59	29°43'58	7♐ 4	22° 0	14°12	10°42	12°59	2°37	22°47	9°40	22° 4	16°37	18° 8	19°19	n.a.	T 25
W26	16 1 56	0♊41'04	19°55	24° 8	15° 2	11°18	12°52	2°39	22°50	9°39	22° 5	16°32	18° 5	19°26	n.a.	W26
T 27	16 5 52	1°38'10	2♑29	26°17	15°50	11°55	12°46	2°41	22°52	9°38	22° 5	16°29	18° 2	19°33	n.a.	T 27
F 28	16 9 49	2°35'16	14°47	28°27	16°38	12°32	12°39	2°43	22°55	9°37	22° 6	16°D28	17°58	19°39	n.a.	F 28
S 29	16 13 45	3°32'22	26°52	0♊37	17°25	13° 8	12°32	2°45	22°58	9°36	22° 7	16°28	17°55	19°46	n.a.	S 29
S 30	16 17 42	4°29'28	8♒48	2°48	18°11	13°45	12°25	2°47	23° 0	9°34	22° 7	16°29	17°52	19°53	n.a.	S 30
M31	16 21 39	5♊26'34	20♒39	4♊59	18♋57	14♋22	12♏19	2♍49	23♋ 3	9♑33	22♓ 8	16♋31	17♋49	19♒59	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n57	22s24	0s 2	1n58	3s15	26n21	2n55	25n 6	1n26	15s52	1n 0	12n58	2n24	22n29	0n36	22s59	0n21	18s51	17s 0	22n25	22n17	18s16		n.a.
S 2	14 16	21 15	1 6	2 27	3 12	26 25	2 55	25 6	1 26	15 49	1 0	12 58	2 24	22 29	0 36	22 59	0 21	18 50	17 0	22 25	22 18	18 15		n.a.
M 3	14 35	19 11	2 5	2 57	3 9	26 28	2 55	25 7	1 26	15 47	1 0	12 58	2 24	22 29	0 36	22 59	0 21	18 50	17 0	22 25	22 18	18 14		n.a.
T 4	14 53	16 18	3 0	3 29	3 5	26 31	2 55	25 7	1 26	15 45	0 59	12 58	2 24	22 29	0 36	22 59	0 21	18 50	17 0	22 25	22 19	18 12		n.a.
W 5	15 11	12 44	3 46	4 3	3 0	26 33	2 54	25 8	1 26	15 43	0 59	12 58	2 24	22 28	0 36	22 59	0 21	18 50	17 1	22 25	22 19	18 11		n.a.
T 6	15 29	8 37	4 24	4 38	2 55	26 34	2 54	25 8	1 25	15 41	0 59	12 58	2 23	22 28	0 36	22 59	0 21	18 50	17 1	22 26	22 20	18 10		n.a.
F 7	15 47	4 6	4 50	5 15	2 49	26 35	2 53	25 8	1 25	15 39	0 59	12 58	2 23	22 28	0 36	22 59	0 21	18 49	17 1	22 27	22 20	18 8		n.a.
S 8	16 5	0n42	5 2	5 53	2 43	26 35	2 53	25 8	1 25	15 37	0 59	12 58	2 23	22 27	0 36	22 59	0 21	18 49	17 1	22 29	22 21	18 7		n.a.
S 9	16 22	5 34	5 0	6 32	2 36	26 34	2 52	25 7	1 25	15 35	0 59	12 57	2 23	22 27	0 36	22 59	0 21	18 49	17 2	22 30	22 21	18 6		n.a.
M10	16 39	10 18	4 42	7 12	2 28	26 33	2 51	25 7	1 25	15 32	0 59	12 57	2 23	22 27	0 36	22 59	0 21	18 49	17 2	22 31	22 21	18 4		n.a.
T 11	16 56	14 39	4 9	7 54	2 20	26 32	2 49	25 6	1 24	15 30	0 59	12 57	2 22	22 26	0 36	22 59	0 21	18 49	17 2	22 33	22 22	18 3		n.a.
W12	17 12	18 20	3 20	8 37	2 12	26 29	2 48	25 5	1 24	15 28	0 58	12 57	2 22	22 26	0 36	23 0	0 21	18 49	17 3	22 34	22 22	18 2		n.a.
T 13	17 28	21 2	2 20	9 20	2 3	26 26	2 47	25 4	1 24	15 26	0 58	12 56	2 22	22 26	0 36	23 0	0 21	18 49	17 3	22 34	22 23	18 0		n.a.
F 14	17 44	22 29	1 10	10 5	1 53	26 23	2 45	25 3	1 24	15 24	0 58	12 56	2 22	22 25	0 36	23 0	0 21	18 49	17 3	22 35	22 23	17 59		n.a.
S 15	18 0	22 32	0n 5	10 50	1 44	26 19	2 43	25 1	1 24	15 22	0 58	12 55	2 22	22 25	0 36	23 0	0 21	18 49	17 3	22 35	22 24	17 57		n.a.
S 16	18 15	21 9	1 20	11 36	1 34	26 14	2 41	25 0	1 23	15 20	0 58	12 55	2 21	22 24	0 36	23 0	0 21	18 49	17 4	22 35	22 24	17 56		n.a.
M17	18 30	18 27	2 30	12 23	1 23	26 9	2 39	24 58	1 23	15 17	0 58	12 54	2 21	22 24	0 36	23 0	0 21	18 48	17 4	22 35	22 25	17 55		n.a.
T 18	18 45	14 39	3 31	13 10	1 13	26 4	2 36	24 56	1 23	15 15	0 58	12 54	2 21	22 24	0 36	23 0	0 21	18 48	17 4	22 35	22 25	17 53		n.a.
W19	18 59	10 2	4 19	13 57	1 2	25 57	2 34	24 54	1 23	15 13	0 57	12 53	2 21	22 23	0 36	23 0	0 21	18 48	17 5	22 35	22 25	17 52		n.a.
T 20	19 14	4 53	4 51	14 44	0 51	25 51	2 31	24 52	1 22	15 11	0 57	12 53	2 21	22 23	0 36	23 0	0 21	18 48	17 5	22 35	22 26	17 51		n.a.
F 21	19 27	0s28	5 6	15 31	0 39	25 44	2 28	24 49	1 22	15 9	0 57	12 52	2 20	22 22	0 36	23 0	0 21	18 48	17 5	22 36	22 26	17 49		n.a.
S 22	19 41	5 45	5 2	16 18	0 28	25 36	2 25	24 46	1 22	15 7	0 57	12 52	2 20	22 22	0 35	23 0	0 21	18 48	17 6	22 37	22 27	17 48		n.a.
S 23	19 54	10 40	4 41	17 4	0 17	25 28	2 22	24 44	1 22	15 5	0 57	12 51	2 20	22 22	0 35	23 0	0 21	18 48	17 6	22 38	22 27	17 46		n.a.
M24	20 7	15 0	4 5	17 49	0 6	25 19	2 18	24 41	1 22	15 3	0 57	12 50	2 20	22 21	0 35	23 0	0 21	18 48	17 6	22 39	22 28	17 45		n.a.
T 25	20 19	18 30	3 16	18 33	0n 5	25 10	2 14	24 38	1 21	15 1	0 56	12 49	2 20	22 21	0 35	23 1	0 21	18 48	17 7	22 40	22 28	17 44		n.a.
W26	20 32	21 1	2 19	19 16	0 16	25 1	2 10	24 34	1 21	14 59	0 56	12 48	2 19	22 20	0 35	23 1	0 21	18 48	17 7	22 41	22 28	17 42		n.a.
T 27	20 43	22 26	1 15	19 58	0 26	24 51	2 6	24 31	1 21	14 57	0 56	12 48	2 19	22 20	0 35	23 1	0 21	18 49	17 7	22 41	22 29	17 41		n.a.
F 28	20 55	22 44	0 9	20 38	0 36	24 40	2 2	24 27	1 21	14 55	0 56	12 47	2 19	22 19	0 35	23 1	0 21	18 49	17 8	22 41	22 29	17 39		n.a.
S 29	21 6	21 56	0s56	21 16	0 46	24 30	1 57	24 23	1 20	14 53	0 56	12 46	2 19	22 19	0 35	23 1	0 21	18 49	17 8	22 41	22 30	17 38		n.a.
S 30	21 17	20 10	1 58	21 51	0 55	24 19	1 52	24 19	1 20	14 52	0 56	12 45	2 19	22 18	0 35	23 1	0 21	18 49	17 8	22 41	22 30	17 36		n.a.
M31	21n27	17s32	2s55	22n25	1n 3	24n 7	1n47	24n15	1n20	14s50	0n55	12n44	2n18	22n18	0n35	23s 1	0n21	18s49	17s 9	22n41	22n31	17s35		n.a.

Julian Day Number = 1670043.5, Delta T = 03h21m03s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'32, Lahiri = - 5°53'31 Julian Calendar 1 May 141 BCE == Greg. Calendar 28 Apr. 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

JUNE 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 25 35	6♊23'40	2♓29	7♊ 9	19♋41	14♋58	12°R12	2♍51	23♋ 6	9°R32	22♓ 8	16°R32	17♋46	20♒ 6	n.a.	T 1
W 2	16 29 32	7°20'47	14°24	9°19	20°25	15°35	12♏ 6	2°54	23° 9	9♑30	22° 9	16♋32	17°43	20°13	n.a.	W 2
T 3	16 33 28	8°17'53	26°30	11°28	21° 7	16°12	12° 0	2°56	23°12	9°29	22° 9	16°30	17°39	20°19	n.a.	T 3
F 4	16 37 25	9°15'00	8♈49	13°36	21°49	16°49	11°54	2°59	23°14	9°28	22°10	16°27	17°36	20°26	n.a.	F 4
S 5	16 41 21	10°12'08	21°27	15°43	22°30	17°26	11°48	3° 1	23°17	9°26	22°10	16°22	17°33	20°33	n.a.	S 5
S 6	16 45 18	11° 9'16	4♉25	17°49	23° 9	18° 2	11°42	3° 4	23°20	9°25	22°10	16°17	17°30	20°39	n.a.	S 6
M 7	16 49 14	12° 6'24	17°45	19°53	23°48	18°39	11°36	3° 7	23°23	9°24	22°11	16°11	17°27	20°46	n.a.	M 7
T 8	16 53 11	13° 3'32	1♊26	21°56	24°25	19°16	11°31	3°10	23°26	9°22	22°11	16° 6	17°24	20°53	n.a.	T 8
W 9	16 57 8	14° 0'41	15°26	23°57	25° 2	19°53	11°25	3°13	23°29	9°21	22°12	16° 3	17°20	20°59	n.a.	W 9
T 10	17 1 4	14°57'50	29°39	25°57	25°37	20°30	11°20	3°16	23°33	9°19	22°12	16° 0	17°17	21° 6	n.a.	T 10
F 11	17 5 1	15°55'00	14♋ 3	27°54	26°10	21° 7	11°15	3°19	23°36	9°18	22°12	15°D59	17°14	21°13	n.a.	F 11
S 12	17 8 57	16°52'09	28°31	29°50	26°43	21°44	11°10	3°22	23°39	9°17	22°13	16° 0	17°11	21°20	n.a.	S 12
S 13	17 12 54	17°49'19	12♌59	1♋44	27°14	22°22	11° 5	3°26	23°42	9°15	22°13	16° 1	17° 8	21°26	n.a.	S 13
M14	17 16 50	18°46'29	27°22	3°36	27°43	22°59	11° 0	3°29	23°45	9°14	22°13	16° 2	17° 4	21°33	n.a.	M14
T 15	17 20 47	19°43'39	11♍38	5°27	28°11	23°36	10°56	3°33	23°48	9°12	22°13	16° 3	17° 1	21°40	n.a.	T 15
W16	17 24 44	20°40'49	25°44	7°15	28°38	24°13	10°51	3°36	23°52	9°11	22°14	16°R 3	16°58	21°46	n.a.	W16
T 17	17 28 40	21°37'59	9♎39	9° 2	29° 3	24°50	10°47	3°40	23°55	9° 9	22°14	16° 2	16°55	21°53	n.a.	T 17
F 18	17 32 37	22°35'09	23°21	10°46	29°26	25°28	10°43	3°44	23°58	9° 7	22°14	16° 0	16°52	22° 0	n.a.	F 18
S 19	17 36 33	23°32'20	6♏51	12°29	29°47	26° 5	10°39	3°48	24° 2	9° 6	22°14	15°58	16°49	22° 6	n.a.	S 19
S 20	17 40 30	24°29'31	20° 7	14°10	0♌ 7	26°42	10°35	3°52	24° 5	9° 4	22°14	15°54	16°45	22°13	n.a.	S 20
M21	17 44 26	25°26'43	3♐ 9	15°49	0°25	27°20	10°32	3°56	24° 8	9° 3	22°14	15°51	16°42	22°20	n.a.	M21
T 22	17 48 23	26°23'55	15°57	17°26	0°41	27°57	10°28	4° 0	24°12	9° 1	22°14	15°49	16°39	22°26	n.a.	T 22
W23	17 52 19	27°21'08	28°31	19° 2	0°55	28°34	10°25	4° 4	24°15	9° 0	22°14	15°47	16°36	22°33	n.a.	W23
T 24	17 56 16	28°18'22	10♑52	20°35	1° 7	29°12	10°22	4° 8	24°18	8°58	22°14	15°D47	16°33	22°40	n.a.	T 24
F 25	18 0 13	29°15'36	23° 1	22° 7	1°17	29°49	10°19	4°12	24°22	8°56	22°R14	15°47	16°30	22°46	n.a.	F 25
S 26	18 4 9	0♋12'51	5♒ 1	23°37	1°24	0♌27	10°16	4°17	24°25	8°55	22°14	15°47	16°26	22°53	n.a.	S 26
S 27	18 8 6	1°10'08	16°54	25° 5	1°30	1° 4	10°14	4°21	24°29	8°53	22°14	15°49	16°23	23° 0	n.a.	S 27
M28	18 12 2	2° 7'25	28°44	26°31	1°33	1°42	10°11	4°26	24°32	8°52	22°14	15°50	16°20	23° 6	n.a.	M28
T 29	18 15 59	3° 4'43	10♓34	27°55	1°R34	2°20	10° 9	4°30	24°36	8°50	22°14	15°51	16°17	23°13	n.a.	T 29
W30	18 19 55	4♋ 2'03	22♓30	29♋17	1♌33	2♌57	10♏ 7	4♍35	24♋39	8♑48	22♓14	15♋52	16♋14	23♒20	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n37	14s11	3s44	22n56	1n11	23n55	1n42	24n11	1n20	14s48	0n55	12n43	2n18	22n17	0n35	23s 1	0n21	18s49	17s 9	22n41	22n31	17s34		n.a.
W 2	21 47	10 15	4 24	23 24	1 19	23 43	1 36	24 6	1 19	14 46	0 55	12 42	2 18	22 17	0 35	23 1	0 21	18 49	17 9	22 41	22 31	17 32		n.a.
T 3	21 56	5 52	4 53	23 50	1 26	23 31	1 30	24 2	1 19	14 44	0 55	12 41	2 18	22 16	0 35	23 1	0 21	18 49	17 10	22 41	22 32	17 31		n.a.
F 4	22 5	1 11	5 9	24 12	1 32	23 18	1 24	23 57	1 19	14 43	0 54	12 40	2 18	22 16	0 35	23 1	0 21	18 49	17 10	22 41	22 32	17 29		n.a.
S 5	22 14	3n40	5 10	24 33	1 37	23 5	1 18	23 52	1 19	14 41	0 54	12 39	2 17	22 15	0 35	23 2	0 21	18 49	17 10	22 42	22 33	17 28		n.a.
S 6	22 22	8 30	4 56	24 50	1 42	22 52	1 11	23 46	1 18	14 40	0 54	12 37	2 17	22 15	0 35	23 2	0 21	18 50	17 11	22 42	22 33	17 26		n.a.
M 7	22 30	13 4	4 26	25 4	1 45	22 38	1 4	23 41	1 18	14 38	0 54	12 36	2 17	22 14	0 35	23 2	0 21	18 50	17 11	22 43	22 34	17 25		n.a.
T 8	22 37	17 6	3 40	25 16	1 49	22 25	0 57	23 36	1 18	14 36	0 54	12 35	2 17	22 14	0 35	23 2	0 21	18 50	17 11	22 44	22 34	17 23		n.a.
W 9	22 44	20 16	2 39	25 25	1 51	22 11	0 49	23 30	1 18	14 35	0 53	12 34	2 17	22 13	0 35	23 2	0 21	18 50	17 12	22 44	22 34	17 22		n.a.
T 10	22 51	22 14	1 28	25 32	1 53	21 57	0 42	23 24	1 17	14 34	0 53	12 32	2 16	22 13	0 35	23 2	0 21	18 50	17 12	22 44	22 35	17 20		n.a.
F 11	22 57	22 47	0 11	25 36	1 54	21 42	0 34	23 18	1 17	14 32	0 53	12 31	2 16	22 12	0 35	23 2	0 21	18 50	17 12	22 44	22 35	17 19		n.a.
S 12	23 3	21 48	1n 8	25 37	1 55	21 28	0 25	23 12	1 17	14 31	0 53	12 30	2 16	22 12	0 35	23 2	0 21	18 51	17 13	22 44	22 36	17 17		n.a.
S 13	23 9	19 23	2 23	25 36	1 54	21 14	0 17	23 5	1 17	14 29	0 52	12 28	2 16	22 11	0 35	23 2	0 21	18 51	17 13	22 44	22 36	17 16		n.a.
M14	23 14	15 46	3 28	25 33	1 54	20 59	0 8	22 59	1 16	14 28	0 52	12 27	2 16	22 10	0 35	23 3	0 21	18 51	17 13	22 44	22 36	17 14		n.a.
T 15	23 19	11 16	4 20	25 28	1 52	20 44	0s 1	22 52	1 16	14 27	0 52	12 25	2 16	22 10	0 35	23 3	0 21	18 51	17 14	22 44	22 37	17 13		n.a.
W16	23 23	6 13	4 55	25 21	1 50	20 30	0 11	22 45	1 16	14 26	0 52	12 24	2 15	22 9	0 35	23 3	0 21	18 52	17 14	22 44	22 37	17 11		n.a.
T 17	23 27	0 55	5 12	25 11	1 47	20 15	0 20	22 38	1 15	14 25	0 52	12 22	2 15	22 9	0 35	23 3	0 21	18 52	17 15	22 44	22 38	17 10		n.a.
F 18	23 30	4s21	5 12	25 0	1 44	20 0	0 30	22 31	1 15	14 24	0 51	12 21	2 15	22 8	0 35	23 3	0 21	18 52	17 15	22 44	22 38	17 8		n.a.
S 19	23 33	9 20	4 54	24 47	1 41	19 46	0 41	22 24	1 15	14 23	0 51	12 19	2 15	22 7	0 35	23 3	0 21	18 52	17 15	22 45	22 38	17 7		n.a.
S 20	23 36	13 47	4 20	24 33	1 36	19 31	0 52	22 16	1 15	14 22	0 51	12 18	2 15	22 7	0 35	23 3	0 21	18 53	17 16	22 45	22 39	17 5		n.a.
M21	23 38	17 32	3 34	24 17	1 32	19 16	1 3	22 9	1 14	14 21	0 51	12 16	2 15	22 6	0 35	23 3	0 21	18 53	17 16	22 45	22 39	17 4		n.a.
T 22	23 40	20 21	2 37	23 59	1 27	19 2	1 14	22 1	1 14	14 20	0 50	12 14	2 14	22 6	0 35	23 4	0 21	18 53	17 16	22 46	22 40	17 2		n.a.
W23	23 41	22 8	1 34	23 41	1 21	18 48	1 25	21 53	1 14	14 19	0 50	12 13	2 14	22 5	0 35	23 4	0 21	18 53	17 17	22 46	22 40	17 1		n.a.
T 24	23 42	22 49	0 27	23 21	1 15	18 33	1 37	21 45	1 13	14 18	0 50	12 11	2 14	22 4	0 35	23 4	0 21	18 54	17 17	22 46	22 40	16 59		n.a.
F 25	23 43	22 23	0s40	23 0	1 8	18 19	1 49	21 37	1 13	14 18	0 50	12 9	2 14	22 4	0 35	23 4	0 21	18 54	17 17	22 46	22 41	16 57		n.a.
S 26	23 43	20 55	1 44	22 38	1 1	18 6	2 2	21 28	1 13	14 17	0 49	12 7	2 14	22 3	0 35	23 4	0 21	18 54	17 18	22 46	22 41	16 56		n.a.
S 27	23 42	18 33	2 44	22 15	0 54	17 52	2 14	21 20	1 13	14 17	0 49	12 5	2 14	22 3	0 35	23 4	0 21	18 55	17 18	22 46	22 42	16 54		n.a.
M28	23 42	15 25	3 36	21 51	0 46	17 39	2 27	21 11	1 12	14 16	0 49	12 4	2 13	22 2	0 35	23 4	0 21	18 55	17 18	22 46	22 42	16 53		n.a.
T 29	23 40	11 40	4 19	21 26	0 38	17 26	2 41	21 2	1 12	14 16	0 49	12 2	2 13	22 1	0 35	23 4	0 20	18 55	17 19	22 45	22 42	16 51		n.a.
W30	23n39	7s27	4s51	21n 1	0n30	17n13	2s54	20n53	1n12	14s15	0n48	12n 0	2n13	22n 1	0n35	23s 4	0n20	18s56	17s19	22n45	22n43	16s50		n.a.

Julian Day Number = 1670074.5, Delta T = 03h21m02s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'27, Lahiri = - 5°53'27 Julian Calendar 1 June 141 BCE == Greg. Calendar 29 May 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

JULY 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 23 52	4♋59'23	4♈34	0♌37	1°R29	3♌35	10°R 5	4♍40	24♋43	8°R47	22°R14	15°R52	16♋10	23♒26	n.a.	T 1
F 2	18 27 48	5°56'45	16°53	1°55	1♌24	4°13	10♏ 4	4°45	24°47	8♑45	22♓14	15♋52	16° 7	23°33	n.a.	F 2
S 3	18 31 45	6°54'09	29°30	3°11	1°15	4°50	10° 2	4°50	24°50	8°44	22°14	15°51	16° 4	23°40	n.a.	S 3
S 4	18 35 42	7°51'33	12♉28	4°25	1° 5	5°28	10° 1	4°55	24°54	8°42	22°14	15°50	16° 1	23°46	n.a.	S 4
M 5	18 39 38	8°48'59	25°51	5°37	0°52	6° 6	10° 0	5° 0	24°57	8°40	22°13	15°49	15°58	23°53	n.a.	M 5
T 6	18 43 35	9°46'26	9♊39	6°46	0°36	6°44	9°59	5° 5	25° 1	8°39	22°13	15°49	15°55	24° 0	n.a.	T 6
W 7	18 47 31	10°43'55	23°50	7°53	0°19	7°22	9°58	5°10	25° 5	8°37	22°13	15°48	15°51	24° 6	n.a.	W 7
T 8	18 51 28	11°41'25	8♋21	8°57	29♋59	8° 0	9°58	5°15	25° 8	8°35	22°13	15°48	15°48	24°13	n.a.	T 8
F 9	18 55 24	12°38'56	23° 7	9°59	29°37	8°38	9°57	5°20	25°12	8°34	22°13	15°D48	15°45	24°20	n.a.	F 9
S 10	18 59 21	13°36'28	7♌59	10°58	29°13	9°16	9°D57	5°26	25°16	8°32	22°12	15°48	15°42	24°26	n.a.	S 10
S 11	19 3 18	14°34'01	22°51	11°55	28°47	9°54	9°57	5°31	25°19	8°31	22°12	15°48	15°39	24°33	n.a.	S 11
M12	19 7 14	15°31'35	7♍36	12°48	28°19	10°32	9°57	5°37	25°23	8°29	22°12	15°R48	15°36	24°40	n.a.	M12
T 13	19 11 11	16°29'11	22° 7	13°38	27°49	11°10	9°58	5°42	25°27	8°27	22°11	15°48	15°32	24°46	n.a.	T 13
W14	19 15 7	17°26'47	6♎20	14°25	27°17	11°48	9°58	5°48	25°30	8°26	22°11	15°48	15°29	24°53	n.a.	W14
T 15	19 19 4	18°24'24	20°14	15° 9	26°44	12°26	9°59	5°54	25°34	8°24	22°10	15°D48	15°26	25° 0	n.a.	T 15
F 16	19 23 0	19°22'03	3♏48	15°49	26°10	13° 4	10° 0	5°59	25°38	8°22	22°10	15°48	15°23	25° 6	n.a.	F 16
S 17	19 26 57	20°19'42	17° 3	16°25	25°35	13°43	10° 1	6° 5	25°42	8°21	22°10	15°49	15°20	25°13	n.a.	S 17
S 18	19 30 53	21°17'23	0♐ 1	16°57	24°59	14°21	10° 2	6°11	25°45	8°19	22° 9	15°49	15°16	25°20	n.a.	S 18
M19	19 34 50	22°15'05	12°43	17°25	24°22	14°59	10° 4	6°17	25°49	8°18	22° 9	15°50	15°13	25°26	n.a.	M19
T 20	19 38 47	23°12'48	25°12	17°48	23°45	15°37	10° 6	6°23	25°53	8°16	22° 8	15°50	15°10	25°33	n.a.	T 20
W21	19 42 43	24°10'33	7♑29	18° 6	23° 8	16°16	10° 7	6°29	25°57	8°15	22° 8	15°51	15° 7	25°40	n.a.	W21
T 22	19 46 40	25° 8'19	19°37	18°20	22°31	16°54	10°10	6°35	26° 0	8°13	22° 7	15°R51	15° 4	25°47	n.a.	T 22
F 23	19 50 36	26° 6'07	1♒37	18°28	21°54	17°33	10°12	6°41	26° 4	8°12	22° 6	15°50	15° 1	25°53	n.a.	F 23
S 24	19 54 33	27° 3'56	13°31	18°R31	21°18	18°11	10°14	6°47	26° 8	8°10	22° 6	15°49	14°57	26° 0	n.a.	S 24
S 25	19 58 29	28° 1'47	25°22	18°28	20°43	18°50	10°17	6°53	26°11	8° 9	22° 5	15°48	14°54	26° 7	n.a.	S 25
M26	20 2 26	28°59'40	7♓11	18°19	20° 9	19°28	10°19	6°59	26°15	8° 7	22° 5	15°46	14°51	26°13	n.a.	M26
T 27	20 6 22	29°57'34	19° 2	18° 5	19°36	20° 7	10°22	7° 6	26°19	8° 6	22° 4	15°44	14°48	26°20	n.a.	T 27
W28	20 10 19	0♌55'30	0♈58	17°44	19° 4	20°46	10°26	7°12	26°23	8° 4	22° 3	15°42	14°45	26°27	n.a.	W28
T 29	20 14 16	1°53'29	13° 2	17°18	18°34	21°24	10°29	7°18	26°26	8° 3	22° 3	15°40	14°42	26°33	n.a.	T 29
F 30	20 18 12	2°51'29	25°19	16°45	18° 6	22° 3	10°32	7°25	26°30	8° 1	22° 2	15°40	14°38	26°40	n.a.	F 30
S 31	20 22 9	3♌49'31	7♉52	16♌ 7	17♋40	22♌42	10♏36	7♍31	26♋34	8♑ 0	22♓ 1	15°D39	14♋35	26♒47	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23n37	2s55	5s11	20n35	0n21	17n 0	3s 7	20n44	1n11	14s15	0n48	11n58	2n13	22n 0	0n35	23s 5	0n20	18s56	17s20	22n45	22n43	16s48			n.a.
F 2	23 35	1n50	5 17	20 9	0 12	16 48	3 21	20 34	1 11	14 15	0 48	11 56	2 13	21 59	0 35	23 5	0 20	18 57	17 20	22 45	22 44	16 46			n.a.
S 3	23 32	6 37	5 8	19 43	0 3	16 37	3 35	20 25	1 11	14 14	0 48	11 54	2 13	21 59	0 35	23 5	0 20	18 57	17 20	22 45	22 44	16 45			n.a.
S 4	23 29	11 15	4 44	19 16	0s 7	16 25	3 49	20 15	1 10	14 14	0 47	11 52	2 12	21 58	0 35	23 5	0 20	18 57	17 21	22 46	22 44	16 43			n.a.
M 5	23 25	15 30	4 3	18 49	0 17	16 15	4 3	20 6	1 10	14 14	0 47	11 50	2 12	21 57	0 35	23 5	0 20	18 58	17 21	22 46	22 45	16 42			n.a.
T 6	23 21	19 4	3 8	18 21	0 27	16 4	4 17	19 56	1 10	14 14	0 47	11 48	2 12	21 57	0 35	23 5	0 20	18 58	17 21	22 46	22 45	16 40			n.a.
W 7	23 16	21 35	1 59	17 54	0 37	15 54	4 31	19 46	1 9	14 14	0 47	11 46	2 12	21 56	0 35	23 5	0 20	18 59	17 22	22 46	22 45	16 38			n.a.
T 8	23 11	22 46	0 41	17 27	0 48	15 45	4 45	19 35	1 9	14 14	0 46	11 44	2 12	21 55	0 35	23 5	0 20	18 59	17 22	22 46	22 46	16 37			n.a.
F 9	23 6	22 22	0n41	17 0	0 59	15 36	4 58	19 25	1 9	14 14	0 46	11 42	2 12	21 55	0 35	23 6	0 20	18 59	17 22	22 46	22 46	16 35			n.a.
S 10	23 0	20 25	2 0	16 33	1 10	15 28	5 12	19 14	1 9	14 14	0 46	11 40	2 12	21 54	0 35	23 6	0 20	19 0	17 23	22 46	22 47	16 34			n.a.
S 11	22 54	17 4	3 12	16 7	1 21	15 20	5 25	19 4	1 8	14 15	0 46	11 38	2 12	21 53	0 35	23 6	0 20	19 0	17 23	22 46	22 47	16 32			n.a.
M12	22 48	12 40	4 10	15 41	1 32	15 13	5 38	18 53	1 8	14 15	0 45	11 35	2 11	21 53	0 35	23 6	0 20	19 1	17 23	22 46	22 47	16 30			n.a.
T 13	22 41	7 36	4 51	15 16	1 44	15 6	5 51	18 42	1 8	14 15	0 45	11 33	2 11	21 52	0 35	23 6	0 20	19 1	17 24	22 46	22 48	16 29			n.a.
W14	22 34	2 14	5 13	14 51	1 55	15 0	6 3	18 31	1 7	14 16	0 45	11 31	2 11	21 51	0 35	23 6	0 20	19 2	17 24	22 46	22 48	16 27			n.a.
T 15	22 26	3s 7	5 17	14 28	2 7	14 54	6 15	18 20	1 7	14 16	0 45	11 29	2 11	21 51	0 35	23 6	0 20	19 2	17 24	22 46	22 48	16 25			n.a.
F 16	22 18	8 12	5 2	14 5	2 18	14 50	6 27	18 9	1 7	14 17	0 44	11 27	2 11	21 50	0 35	23 6	0 20	19 3	17 25	22 46	22 49	16 24			n.a.
S 17	22 9	12 47	4 32	13 43	2 30	14 45	6 37	17 57	1 6	14 17	0 44	11 24	2 11	21 49	0 35	23 6	0 20	19 3	17 25	22 46	22 49	16 22			n.a.
S 18	22 0	16 40	3 48	13 23	2 41	14 42	6 47	17 46	1 6	14 18	0 44	11 22	2 11	21 48	0 35	23 7	0 20	19 3	17 25	22 46	22 50	16 20			n.a.
M19	21 51	19 43	2 54	13 3	2 52	14 39	6 57	17 34	1 6	14 19	0 44	11 20	2 11	21 48	0 35	23 7	0 20	19 4	17 26	22 46	22 50	16 19			n.a.
T 20	21 41	21 45	1 52	12 46	3 3	14 36	7 6	17 22	1 5	14 19	0 43	11 17	2 11	21 47	0 35	23 7	0 20	19 4	17 26	22 46	22 50	16 17			n.a.
W21	21 31	22 44	0 46	12 30	3 14	14 35	7 14	17 10	1 5	14 20	0 43	11 15	2 10	21 46	0 35	23 7	0 20	19 5	17 26	22 46	22 51	16 15			n.a.
T 22	21 21	22 36	0s21	12 16	3 25	14 33	7 21	16 58	1 4	14 21	0 43	11 13	2 10	21 46	0 35	23 7	0 20	19 5	17 27	22 46	22 51	16 14			n.a.
F 23	21 10	21 26	1 26	12 4	3 35	14 33	7 27	16 46	1 4	14 22	0 43	11 10	2 10	21 45	0 35	23 7	0 20	19 6	17 27	22 46	22 51	16 12			n.a.
S 24	20 59	19 18	2 27	11 54	3 44	14 33	7 33	16 34	1 4	14 23	0 42	11 8	2 10	21 44	0 35	23 7	0 20	19 6	17 27	22 46	22 52	16 10			n.a.
S 25	20 47	16 22	3 22	11 46	3 53	14 33	7 37	16 21	1 3	14 24	0 42	11 5	2 10	21 44	0 35	23 7	0 20	19 7	17 27	22 46	22 52	16 9			n.a.
M26	20 36	12 47	4 7	11 41	4 2	14 34	7 41	16 9	1 3	14 25	0 42	11 3	2 10	21 43	0 35	23 8	0 20	19 7	17 28	22 46	22 52	16 7			n.a.
T 27	20 23	8 42	4 42	11 38	4 9	14 36	7 44	15 56	1 3	14 26	0 42	11 1	2 10	21 42	0 35	23 8	0 20	19 8	17 28	22 46	22 53	16 5			n.a.
W28	20 11	4 16	5 6	11 39	4 15	14 38	7 46	15 43	1 2	14 28	0 41	10 58	2 10	21 41	0 35	23 8	0 20	19 9	17 28	22 47	22 53	16 4			n.a.
T 29	19 58	0n22	5 16	11 42	4 20	14 41	7 48	15 30	1 2	14 29	0 41	10 56	2 10	21 41	0 35	23 8	0 20	19 9	17 29	22 47	22 53	16 2			n.a.
F 30	19 45	5 4	5 11	11 48	4 24	14 44	7 48	15 17	1 2	14 30	0 41	10 53	2 10	21 40	0 35	23 8	0 20	19 10	17 29	22 47	22 54	16 0			n.a.
S 31	19n31	9n41	4s53	11n57	4s26	14n47	7s48	15n 4	1n 1	14s32	0n41	10n51	2n 9	21n39	0n35	23s 8	0n20	19s10	17s29	22n47	22n54	15s58			n.a.

Julian Day Number = 1670104.5, Delta T = 03h21m01s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'23, Lahiri = - 5°53'23 Julian Calendar 1 July 141 BCE == Greg. Calendar 28 June 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

AUGUST 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 26 5	4♌47'35	20♉46	15°R24	17°R16	23♌20	10♏40	7♍38	26♋38	7°R58	22°R 1	15♋40	14♋32	26♒53	n.a.	S 1
M 2	20 30 2	5°45'42	4♊ 3	14♌36	16♋54	23°59	10°44	7°44	26°41	7♑57	22♓ 0	15°41	14°29	27° 0	n.a.	M 2
T 3	20 33 58	6°43'50	17°47	13°44	16°34	24°38	10°48	7°51	26°45	7°56	21°59	15°43	14°26	27° 7	n.a.	T 3
W 4	20 37 55	7°42'01	1♋58	12°49	16°17	25°17	10°52	7°57	26°49	7°54	21°58	15°44	14°22	27°13	n.a.	W 4
T 5	20 41 51	8°40'13	16°34	11°51	16° 2	25°56	10°57	8° 4	26°52	7°53	21°58	15°R44	14°19	27°20	n.a.	T 5
F 6	20 45 48	9°38'28	1♌29	10°53	15°49	26°35	11° 1	8°11	26°56	7°51	21°57	15°44	14°16	27°27	n.a.	F 6
S 7	20 49 45	10°36'44	16°37	9°54	15°38	27°14	11° 6	8°18	27° 0	7°50	21°56	15°42	14°13	27°33	n.a.	S 7
S 8	20 53 41	11°35'03	1♍49	8°58	15°31	27°53	11°11	8°24	27° 3	7°49	21°55	15°39	14°10	27°40	n.a.	S 8
M 9	20 57 38	12°33'23	16°54	8° 4	15°25	28°32	11°16	8°31	27° 7	7°48	21°54	15°35	14° 7	27°47	n.a.	M 9
T 10	21 1 34	13°31'44	1♎43	7°14	15°22	29°11	11°22	8°38	27°11	7°46	21°53	15°32	14° 3	27°53	n.a.	T 10
W11	21 5 31	14°30'08	16°10	6°29	15°D21	29°51	11°27	8°45	27°14	7°45	21°53	15°28	14° 0	28° 0	n.a.	W11
T 12	21 9 27	15°28'33	0♏12	5°51	15°22	0♍30	11°33	8°52	27°18	7°44	21°52	15°26	13°57	28° 7	n.a.	T 12
F 13	21 13 24	16°26'59	13°47	5°20	15°26	1° 9	11°38	8°59	27°21	7°43	21°51	15°D25	13°54	28°14	n.a.	F 13
S 14	21 17 20	17°25'28	26°58	4°57	15°32	1°48	11°44	9° 6	27°25	7°42	21°50	15°26	13°51	28°20	n.a.	S 14
S 15	21 21 17	18°23'58	9♐46	4°43	15°40	2°28	11°50	9°13	27°29	7°40	21°49	15°27	13°47	28°27	n.a.	S 15
M16	21 25 13	19°22'30	22°16	4°D38	15°51	3° 7	11°57	9°20	27°32	7°39	21°48	15°28	13°44	28°34	n.a.	M16
T 17	21 29 10	20°21'04	4♑32	4°42	16° 3	3°47	12° 3	9°27	27°36	7°38	21°47	15°30	13°41	28°40	n.a.	T 17
W18	21 33 7	21°19'40	16°37	4°56	16°18	4°26	12°10	9°34	27°39	7°37	21°46	15°R30	13°38	28°47	n.a.	W18
T 19	21 37 3	22°18'17	28°34	5°20	16°34	5° 6	12°16	9°41	27°43	7°36	21°45	15°29	13°35	28°54	n.a.	T 19
F 20	21 41 0	23°16'57	10♒27	5°52	16°53	5°45	12°23	9°48	27°46	7°35	21°44	15°27	13°32	29° 0	n.a.	F 20
S 21	21 44 56	24°15'38	22°18	6°33	17°13	6°25	12°30	9°55	27°50	7°34	21°43	15°22	13°28	29° 7	n.a.	S 21
S 22	21 48 53	25°14'22	4♓ 8	7°23	17°35	7° 4	12°37	10° 2	27°53	7°33	21°42	15°16	13°25	29°14	n.a.	S 22
M23	21 52 49	26°13'07	15°59	8°21	17°59	7°44	12°45	10° 9	27°56	7°32	21°41	15° 8	13°22	29°20	n.a.	M23
T 24	21 56 46	27°11'55	27°54	9°26	18°25	8°24	12°52	10°16	28° 0	7°31	21°40	15° 0	13°19	29°27	n.a.	T 24
W25	22 0 42	28°10'45	9♈54	10°37	18°52	9° 4	13° 0	10°24	28° 3	7°30	21°39	14°53	13°16	29°34	n.a.	W25
T 26	22 4 39	29° 9'37	22° 2	11°55	19°21	9°43	13° 7	10°31	28° 6	7°29	21°38	14°46	13°13	29°40	n.a.	T 26
F 27	22 8 36	0♍ 8'32	4♉20	13°17	19°52	10°23	13°15	10°38	28°10	7°29	21°37	14°41	13° 9	29°47	n.a.	F 27
S 28	22 12 32	1° 7'29	16°52	14°45	20°24	11° 3	13°23	10°45	28°13	7°28	21°36	14°38	13° 6	29°54	n.a.	S 28
S 29	22 16 29	2° 6'28	29°41	16°16	20°57	11°43	13°31	10°52	28°16	7°27	21°35	14°D37	13° 3	0♓ 0	n.a.	S 29
M30	22 20 25	3° 5'30	12♊51	17°51	21°32	12°23	13°39	11° 0	28°20	7°26	21°34	14°37	13° 0	0° 7	n.a.	M30
T 31	22 24 22	4♍ 4'34	26♊25	19♌29	22♋ 8	13♍ 3	13♏48	11♍ 7	28♋23	7♑26	21♓33	14♋38	12♋57	0♓14	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	19n17	13n59	4s19	12n 9	4s27	14n51	7s47	14n51	1n 1	14s33	0n40	10n48	2n 9	21n39	0n35	23s 8	0n20	19s11	17s29	22n47	22n55	15s57			n.a.
M 2	19 3	17 46	3 30	12 24	4 26	14 56	7 46	14 38	1 0	14 35	0 40	10 46	2 9	21 38	0 35	23 8	0 20	19 11	17 30	22 47	22 55	15 55			n.a.
T 3	18 48	20 41	2 28	12 42	4 23	15 0	7 43	14 24	1 0	14 36	0 40	10 43	2 9	21 37	0 35	23 8	0 20	19 12	17 30	22 46	22 55	15 53			n.a.
W 4	18 33	22 27	1 15	13 2	4 18	15 5	7 41	14 10	1 0	14 38	0 40	10 40	2 9	21 36	0 35	23 8	0 20	19 12	17 30	22 46	22 56	15 51			n.a.
T 5	18 18	22 45	0n 5	13 24	4 11	15 10	7 37	13 57	0 59	14 39	0 40	10 38	2 9	21 36	0 35	23 9	0 20	19 13	17 31	22 46	22 56	15 50			n.a.
F 6	18 2	21 27	1 26	13 49	4 3	15 16	7 33	13 43	0 59	14 41	0 39	10 35	2 9	21 35	0 35	23 9	0 20	19 13	17 31	22 46	22 56	15 48			n.a.
S 7	17 46	18 36	2 42	14 15	3 52	15 21	7 29	13 29	0 59	14 43	0 39	10 33	2 9	21 34	0 35	23 9	0 20	19 14	17 31	22 47	22 57	15 46			n.a.
S 8	17 30	14 28	3 47	14 42	3 39	15 27	7 24	13 15	0 58	14 44	0 39	10 30	2 9	21 34	0 35	23 9	0 20	19 14	17 31	22 47	22 57	15 45			n.a.
M 9	17 14	9 27	4 35	15 9	3 25	15 33	7 18	13 1	0 58	14 46	0 39	10 27	2 9	21 33	0 35	23 9	0 20	19 15	17 31	22 47	22 57	15 43			n.a.
T 10	16 57	3 57	5 4	15 37	3 10	15 39	7 12	12 47	0 57	14 48	0 38	10 25	2 9	21 32	0 35	23 9	0 20	19 16	17 32	22 48	22 58	15 41			n.a.
W11	16 40	1s37	5 13	16 5	2 53	15 46	7 6	12 33	0 57	14 50	0 38	10 22	2 9	21 32	0 35	23 9	0 20	19 16	17 32	22 48	22 58	15 39			n.a.
T 12	16 23	6 57	5 3	16 31	2 35	15 52	6 59	12 18	0 57	14 52	0 38	10 19	2 9	21 31	0 35	23 9	0 20	19 17	17 32	22 48	22 58	15 37			n.a.
F 13	16 5	11 46	4 36	16 57	2 17	15 58	6 53	12 4	0 56	14 54	0 38	10 17	2 9	21 30	0 35	23 9	0 20	19 17	17 32	22 49	22 59	15 36			n.a.
S 14	15 47	15 53	3 55	17 21	1 58	16 5	6 46	11 49	0 56	14 56	0 37	10 14	2 9	21 29	0 35	23 9	0 20	19 18	17 33	22 48	22 59	15 34			n.a.
S 15	15 29	19 9	3 3	17 43	1 38	16 11	6 38	11 34	0 55	14 58	0 37	10 11	2 9	21 29	0 35	23 9	0 20	19 18	17 33	22 48	22 59	15 32			n.a.
M16	15 11	21 26	2 4	18 2	1 19	16 18	6 31	11 20	0 55	15 0	0 37	10 9	2 9	21 28	0 35	23 10	0 20	19 19	17 33	22 48	23 0	15 30			n.a.
T 17	14 52	22 38	1 0	18 19	1 1	16 24	6 23	11 5	0 55	15 3	0 37	10 6	2 9	21 27	0 35	23 10	0 20	19 19	17 33	22 48	23 0	15 29			n.a.
W18	14 33	22 46	0s 6	18 34	0 43	16 30	6 15	10 50	0 54	15 5	0 37	10 3	2 9	21 27	0 35	23 10	0 20	19 20	17 33	22 48	23 0	15 27			n.a.
T 19	14 14	21 50	1 11	18 45	0 25	16 36	6 7	10 35	0 54	15 7	0 36	10 0	2 9	21 26	0 35	23 10	0 20	19 21	17 34	22 48	23 1	15 25			n.a.
F 20	13 55	19 56	2 12	18 53	0 8	16 42	5 59	10 20	0 53	15 9	0 36	9 58	2 9	21 25	0 35	23 10	0 20	19 21	17 34	22 48	23 1	15 23			n.a.
S 21	13 35	17 10	3 7	18 58	0n 8	16 48	5 50	10 5	0 53	15 12	0 36	9 55	2 8	21 25	0 35	23 10	0 20	19 22	17 34	22 49	23 1	15 21			n.a.
S 22	13 15	13 43	3 53	19 0	0 22	16 53	5 42	9 49	0 53	15 14	0 36	9 52	2 8	21 24	0 35	23 10	0 20	19 22	17 34	22 50	23 2	15 20			n.a.
M23	12 55	9 43	4 30	18 58	0 36	16 59	5 34	9 34	0 52	15 16	0 36	9 49	2 8	21 23	0 35	23 10	0 20	19 23	17 34	22 50	23 2	15 18			n.a.
T 24	12 35	5 21	4 55	18 53	0 49	17 4	5 25	9 19	0 52	15 19	0 35	9 47	2 8	21 23	0 35	23 10	0 20	19 23	17 34	22 51	23 2	15 16			n.a.
W25	12 14	0 44	5 7	18 44	1 0	17 8	5 17	9 3	0 51	15 21	0 35	9 44	2 8	21 22	0 35	23 10	0 20	19 24	17 35	22 52	23 3	15 14			n.a.
T 26	11 54	3n57	5 6	18 32	1 10	17 13	5 8	8 48	0 51	15 24	0 35	9 41	2 8	21 21	0 36	23 10	0 20	19 24	17 35	22 53	23 3	15 12			n.a.
F 27	11 33	8 33	4 51	18 17	1 19	17 17	4 59	8 32	0 50	15 27	0 35	9 38	2 8	21 21	0 36	23 10	0 19	19 25	17 35	22 54	23 3	15 10			n.a.
S 28	11 12	12 53	4 21	17 59	1 27	17 21	4 51	8 16	0 50	15 29	0 35	9 36	2 8	21 20	0 36	23 10	0 19	19 26	17 35	22 54	23 3	15 9			n.a.
S 29	10 51	16 45	3 38	17 38	1 34	17 25	4 42	8 1	0 50	15 32	0 34	9 33	2 8	21 19	0 36	23 11	0 19	19 26	17 35	22 54	23 4	15 7			n.a.
M30	10 29	19 54	2 43	17 14	1 40	17 28	4 33	7 45	0 49	15 34	0 34	9 30	2 8	21 19	0 36	23 11	0 19	19 27	17 35	22 54	23 4	15 5			n.a.
T 31	10n 8	22n 3	1s37	16n47	1n44	17n31	4s25	7n29	0n49	15s37	0n34	9n27	2n 8	21n18	0n36	23s11	0n19	19s27	17s35	22n54	23n 4	15s 3			n.a.

Julian Day Number = 1670135.5, Delta T = 03h21m00s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'19, Lahiri = - 5°53'19 Julian Calendar 1 Aug. 141 BCE == Greg. Calendar 29 July 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

SEPTEMBER 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 28 18	5♍ 3'41	10♋25	21♌ 9	22♋45	13♍43	13♏56	11♍14	28♋26	7°R25	21°R32	14°R39	12♋53	0♓21	n.a.	W 1
T 2	22 32 15	6° 2'50	24°51	22°52	23°24	14°23	14° 5	11°21	28°29	7♑24	21♓30	14♋39	12°50	0°27	n.a.	T 2
F 3	22 36 11	7° 2'02	9♌41	24°35	24° 4	15° 3	14°13	11°29	28°32	7°24	21°29	14°36	12°47	0°34	n.a.	F 3
S 4	22 40 8	8° 1'16	24°49	26°20	24°44	15°44	14°22	11°36	28°35	7°23	21°28	14°32	12°44	0°41	n.a.	S 4
S 5	22 44 4	9° 0'32	10♍ 6	28° 6	25°27	16°24	14°31	11°43	28°39	7°22	21°27	14°25	12°41	0°47	n.a.	S 5
M 6	22 48 1	9°59'50	25°21	29°52	26°10	17° 4	14°40	11°51	28°42	7°22	21°26	14°16	12°38	0°54	n.a.	M 6
T 7	22 51 58	10°59'10	10♎22	1♍38	26°54	17°44	14°50	11°58	28°45	7°21	21°25	14° 8	12°34	1° 1	n.a.	T 7
W 8	22 55 54	11°58'32	25° 2	3°25	27°39	18°25	14°59	12° 5	28°48	7°21	21°24	14° 0	12°31	1° 7	n.a.	W 8
T 9	22 59 51	12°57'56	9♏15	5°12	28°25	19° 5	15° 8	12°13	28°51	7°20	21°23	13°53	12°28	1°14	n.a.	T 9
F 10	23 3 47	13°57'22	22°58	6°58	29°12	19°46	15°18	12°20	28°53	7°20	21°21	13°49	12°25	1°21	n.a.	F 10
S 11	23 7 44	14°56'50	6♐12	8°44	29°59	20°26	15°28	12°27	28°56	7°20	21°20	13°47	12°22	1°27	n.a.	S 11
S 12	23 11 40	15°56'20	19° 0	10°30	0♌48	21° 7	15°37	12°34	28°59	7°19	21°19	13°D46	12°19	1°34	n.a.	S 12
M13	23 15 37	16°55'52	1♑26	12°15	1°38	21°47	15°47	12°42	29° 2	7°19	21°18	13°47	12°15	1°41	n.a.	M13
T 14	23 19 33	17°55'25	13°37	14° 0	2°28	22°28	15°57	12°49	29° 5	7°19	21°17	13°R47	12°12	1°48	n.a.	T 14
W15	23 23 30	18°55'01	25°35	15°44	3°19	23° 9	16° 7	12°56	29° 7	7°18	21°16	13°47	12° 9	1°54	n.a.	W15
T 16	23 27 27	19°54'38	7♒28	17°27	4°10	23°49	16°17	13° 4	29°10	7°18	21°14	13°44	12° 6	2° 1	n.a.	T 16
F 17	23 31 23	20°54'17	19°17	19°10	5° 3	24°30	16°28	13°11	29°13	7°18	21°13	13°38	12° 3	2° 8	n.a.	F 17
S 18	23 35 20	21°53'59	1♓ 6	20°53	5°56	25°11	16°38	13°18	29°15	7°18	21°12	13°30	11°59	2°14	n.a.	S 18
S 19	23 39 16	22°53'42	12°58	22°34	6°50	25°52	16°49	13°25	29°18	7°18	21°11	13°19	11°56	2°21	n.a.	S 19
M20	23 43 13	23°53'27	24°55	24°16	7°44	26°33	16°59	13°33	29°21	7°18	21°10	13° 7	11°53	2°28	n.a.	M20
T 21	23 47 9	24°53'14	6♈58	25°56	8°39	27°14	17°10	13°40	29°23	7°18	21° 9	12°53	11°50	2°34	n.a.	T 21
W22	23 51 6	25°53'03	19° 7	27°36	9°35	27°55	17°21	13°47	29°26	7°D18	21° 7	12°40	11°47	2°41	n.a.	W22
T 23	23 55 2	26°52'55	1♉24	29°15	10°31	28°36	17°32	13°54	29°28	7°18	21° 6	12°28	11°44	2°48	n.a.	T 23
F 24	23 58 59	27°52'49	13°51	0♎54	11°28	29°17	17°43	14° 1	29°30	7°18	21° 5	12°19	11°40	2°54	n.a.	F 24
S 25	0 2 55	28°52'45	26°29	2°32	12°26	29°58	17°54	14° 8	29°33	7°18	21° 4	12°12	11°37	3° 1	n.a.	S 25
S 26	0 6 52	29°52'43	9♊20	4°10	13°24	0♎39	18° 5	14°16	29°35	7°18	21° 3	12° 8	11°34	3° 8	n.a.	S 26
M27	0 10 49	0♎52'44	22°28	5°47	14°22	1°20	18°16	14°23	29°37	7°18	21° 2	12° 7	11°31	3°14	n.a.	M27
T 28	0 14 45	1°52'47	5♋54	7°23	15°21	2° 2	18°27	14°30	29°39	7°18	21° 1	12° 7	11°28	3°21	n.a.	T 28
W29	0 18 42	2°52'52	19°42	8°59	16°21	2°43	18°39	14°37	29°42	7°18	20°59	12° 7	11°24	3°28	n.a.	W29
T 30	0 22 38	3♎53'00	3♌54	10♎34	17♌20	3♎24	18♏50	14♍44	29♋44	7♑19	20♓58	12♋ 5	11♋21	3♓35	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n46	22n55	0s23	16n19	1n48	17n33	4s16	7n13	0n48	15s40	0n34	9n24	2n 8	21n17	0n36	23s11	0n19	19s28	17s35	22n54	23n 5	15s 1		n.a.
T 2	9 24	22 18	0n55	15 47	1 51	17 35	4 8	6 57	0 48	15 43	0 34	9 22	2 8	21 17	0 36	23 11	0 19	19 28	17 36	22 54	23 5	14 59		n.a.
F 3	9 2	20 7	2 10	15 14	1 52	17 37	3 59	6 41	0 47	15 45	0 33	9 19	2 8	21 16	0 36	23 11	0 19	19 29	17 36	22 54	23 5	14 57		n.a.
S 4	8 39	16 30	3 18	14 39	1 54	17 38	3 51	6 24	0 47	15 48	0 33	9 16	2 9	21 16	0 36	23 11	0 19	19 29	17 36	22 55	23 6	14 56		n.a.
S 5	8 17	11 45	4 13	14 3	1 54	17 39	3 42	6 8	0 46	15 51	0 33	9 13	2 9	21 15	0 36	23 11	0 19	19 30	17 36	22 55	23 6	14 54		n.a.
M 6	7 54	6 17	4 49	13 25	1 53	17 39	3 34	5 52	0 46	15 54	0 33	9 11	2 9	21 14	0 36	23 11	0 19	19 30	17 36	22 56	23 6	14 52		n.a.
T 7	7 32	0 31	5 5	12 45	1 52	17 39	3 25	5 36	0 45	15 57	0 33	9 8	2 9	21 14	0 36	23 11	0 19	19 31	17 36	22 57	23 7	14 50		n.a.
W 8	7 9	5s 9	5 0	12 5	1 51	17 39	3 17	5 19	0 45	16 0	0 32	9 5	2 9	21 13	0 36	23 11	0 19	19 31	17 36	22 58	23 7	14 48		n.a.
T 9	6 46	10 23	4 36	11 23	1 48	17 38	3 9	5 3	0 45	16 3	0 32	9 2	2 9	21 13	0 36	23 11	0 19	19 32	17 36	22 59	23 7	14 46		n.a.
F 10	6 23	14 54	3 57	10 41	1 46	17 36	3 1	4 46	0 44	16 6	0 32	8 59	2 9	21 12	0 36	23 11	0 19	19 32	17 36	22 59	23 7	14 44		n.a.
S 11	6 0	18 31	3 7	9 58	1 42	17 34	2 53	4 30	0 44	16 9	0 32	8 57	2 9	21 11	0 36	23 11	0 19	19 33	17 36	22 59	23 8	14 42		n.a.
S 12	5 36	21 7	2 8	9 14	1 39	17 32	2 45	4 13	0 43	16 12	0 32	8 54	2 9	21 11	0 36	23 11	0 19	19 33	17 36	22 59	23 8	14 41		n.a.
M13	5 13	22 37	1 6	8 30	1 35	17 29	2 37	3 57	0 43	16 15	0 32	8 51	2 9	21 10	0 36	23 11	0 19	19 34	17 36	22 59	23 8	14 39		n.a.
T 14	4 50	22 59	0 1	7 45	1 31	17 25	2 29	3 40	0 42	16 18	0 31	8 48	2 9	21 10	0 36	23 11	0 19	19 34	17 36	22 59	23 9	14 37		n.a.
W15	4 26	22 17	1s 3	7 0	1 26	17 21	2 21	3 23	0 42	16 21	0 31	8 45	2 9	21 9	0 36	23 11	0 19	19 35	17 36	22 59	23 9	14 35		n.a.
T 16	4 2	20 35	2 3	6 15	1 21	17 16	2 13	3 7	0 41	16 24	0 31	8 43	2 9	21 9	0 36	23 11	0 19	19 35	17 36	23 0	23 9	14 33		n.a.
F 17	3 39	18 0	2 57	5 30	1 16	17 11	2 6	2 50	0 41	16 27	0 31	8 40	2 9	21 8	0 36	23 11	0 19	19 36	17 36	23 0	23 10	14 31		n.a.
S 18	3 15	14 41	3 44	4 44	1 10	17 5	1 58	2 33	0 40	16 31	0 31	8 37	2 9	21 8	0 36	23 12	0 19	19 36	17 36	23 1	23 10	14 29		n.a.
S 19	2 51	10 46	4 20	3 58	1 5	16 59	1 51	2 16	0 40	16 34	0 31	8 34	2 9	21 7	0 36	23 12	0 19	19 37	17 36	23 2	23 10	14 27		n.a.
M20	2 27	6 25	4 46	3 12	0 59	16 52	1 44	1 59	0 39	16 37	0 30	8 32	2 9	21 7	0 36	23 12	0 19	19 37	17 36	23 3	23 10	14 25		n.a.
T 21	2 3	1 47	4 59	2 27	0 53	16 45	1 36	1 42	0 39	16 40	0 30	8 29	2 9	21 6	0 36	23 12	0 19	19 38	17 36	23 5	23 11	14 23		n.a.
W22	1 39	2n58	4 59	1 41	0 47	16 37	1 29	1 25	0 38	16 43	0 30	8 26	2 9	21 6	0 36	23 12	0 19	19 38	17 36	23 6	23 11	14 21		n.a.
T 23	1 15	7 39	4 45	0 55	0 41	16 29	1 22	1 8	0 38	16 47	0 30	8 23	2 9	21 5	0 36	23 12	0 19	19 38	17 36	23 7	23 11	14 19		n.a.
F 24	0 51	12 5	4 17	0 10	0 34	16 20	1 15	0 51	0 37	16 50	0 30	8 21	2 10	21 5	0 36	23 12	0 19	19 39	17 36	23 8	23 12	14 17		n.a.
S 25	0 27	16 5	3 36	0s35	0 28	16 10	1 8	0 34	0 37	16 53	0 30	8 18	2 10	21 4	0 36	23 12	0 19	19 39	17 36	23 9	23 12	14 15		n.a.
S 26	0 3	19 24	2 44	1 21	0 21	16 0	1 2	0 17	0 36	16 56	0 29	8 15	2 10	21 4	0 36	23 12	0 19	19 40	17 36	23 9	23 12	14 13		n.a.
M27	0s21	21 48	1 42	2 5	0 15	15 50	0 55	0 0	0 36	17 0	0 29	8 13	2 10	21 3	0 36	23 12	0 19	19 40	17 36	23 9	23 12	14 12		n.a.
T 28	0 45	23 2	0 33	2 50	0 8	15 39	0 48	0s17	0 35	17 3	0 29	8 10	2 10	21 3	0 36	23 12	0 19	19 41	17 36	23 9	23 13	14 10		n.a.
W29	1 9	22 54	0n40	3 34	0 2	15 27	0 42	0 34	0 35	17 6	0 29	8 7	2 10	21 2	0 37	23 12	0 19	19 41	17 36	23 9	23 13	14 8		n.a.
T 30	1s34	21n19	1n52	4s18	0s 5	15n15	0s36	0s51	0n34	17s10	0n29	8n 4	2n10	21n 2	0n37	23s12	0n19	19s41	17s36	23n 9	23n13	14s 6		n.a.

Julian Day Number = 1670166.5, Delta T = 03h20m59s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'15, Lahiri = - 5°53'14 Julian Calendar 1 Sept. 141 BCE == Greg. Calendar 29 Aug. 141 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

OCTOBER 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 26 35	4♎53'09	18♌27	12♎ 9	18♌21	4♎ 6	19♏ 2	14♍51	29♋46	7♑19	20°R57	12°R 2	11♋18	3♓41	n.a.	F 1
S 2	0 30 31	5°53'21	3♍19	13°44	19°22	4°47	19°13	14°58	29°48	7°19	20♓56	11♋55	11°15	3°48	n.a.	S 2
S 3	0 34 28	6°53'35	18°22	15°18	20°23	5°29	19°25	15° 5	29°50	7°20	20°55	11°46	11°12	3°55	n.a.	S 3
M 4	0 38 24	7°53'51	3♎29	16°52	21°24	6°10	19°37	15°12	29°52	7°20	20°54	11°35	11° 9	4° 1	n.a.	M 4
T 5	0 42 21	8°54'09	18°28	18°25	22°26	6°52	19°49	15°19	29°54	7°20	20°53	11°23	11° 5	4° 8	n.a.	T 5
W 6	0 46 18	9°54'29	3♏10	19°58	23°29	7°34	20° 1	15°26	29°55	7°21	20°52	11°12	11° 2	4°15	n.a.	W 6
T 7	0 50 14	10°54'50	17°28	21°30	24°32	8°15	20°13	15°33	29°57	7°21	20°51	11° 2	10°59	4°21	n.a.	T 7
F 8	0 54 11	11°55'13	1♐17	23° 2	25°35	8°57	20°25	15°39	29°59	7°22	20°50	10°55	10°56	4°28	n.a.	F 8
S 9	0 58 7	12°55'38	14°36	24°34	26°38	9°39	20°37	15°46	0♌ 1	7°22	20°48	10°51	10°53	4°35	n.a.	S 9
S 10	1 2 4	13°56'04	27°29	26° 5	27°42	10°21	20°49	15°53	0° 2	7°23	20°47	10°49	10°50	4°42	n.a.	S 10
M11	1 6 0	14°56'32	9♑58	27°36	28°46	11° 3	21° 2	16° 0	0° 4	7°24	20°46	10°49	10°46	4°48	n.a.	M11
T 12	1 9 57	15°57'01	22° 9	29° 7	29°50	11°45	21°14	16° 6	0° 5	7°24	20°45	10°49	10°43	4°55	n.a.	T 12
W13	1 13 53	16°57'32	4♒ 8	0♏37	0♍55	12°27	21°27	16°13	0° 7	7°25	20°44	10°48	10°40	5° 2	n.a.	W13
T 14	1 17 50	17°58'04	15°59	2° 7	2° 0	13° 9	21°39	16°19	0° 8	7°26	20°43	10°45	10°37	5° 8	n.a.	T 14
F 15	1 21 47	18°58'37	27°48	3°36	3° 5	13°51	21°52	16°26	0°10	7°26	20°42	10°39	10°34	5°15	n.a.	F 15
S 16	1 25 43	19°59'12	9♓39	5° 5	4°11	14°33	22° 4	16°33	0°11	7°27	20°41	10°31	10°30	5°22	n.a.	S 16
S 17	1 29 40	20°59'48	21°35	6°33	5°17	15°15	22°17	16°39	0°12	7°28	20°40	10°20	10°27	5°28	n.a.	S 17
M18	1 33 36	22° 0'26	3♈38	8° 1	6°23	15°57	22°30	16°45	0°13	7°29	20°39	10° 7	10°24	5°35	n.a.	M18
T 19	1 37 33	23° 1'05	15°51	9°29	7°29	16°39	22°42	16°52	0°15	7°30	20°38	9°53	10°21	5°42	n.a.	T 19
W20	1 41 29	24° 1'46	28°14	10°56	8°36	17°22	22°55	16°58	0°16	7°31	20°37	9°39	10°18	5°49	n.a.	W20
T 21	1 45 26	25° 2'28	10♉46	12°22	9°43	18° 4	23° 8	17° 4	0°17	7°32	20°36	9°26	10°15	5°55	n.a.	T 21
F 22	1 49 22	26° 3'12	23°30	13°48	10°50	18°46	23°21	17°11	0°18	7°33	20°36	9°16	10°11	6° 2	n.a.	F 22
S 23	1 53 19	27° 3'57	6♊23	15°13	11°58	19°29	23°34	17°17	0°19	7°34	20°35	9° 9	10° 8	6° 9	n.a.	S 23
S 24	1 57 16	28° 4'44	19°28	16°37	13° 5	20°11	23°47	17°23	0°20	7°35	20°34	9° 5	10° 5	6°15	n.a.	S 24
M25	2 1 12	29° 5'33	2♋45	18° 1	14°13	20°54	24° 0	17°29	0°20	7°36	20°33	9° 4	10° 2	6°22	n.a.	M25
T 26	2 5 9	0♏ 6'23	16°14	19°23	15°21	21°37	24°13	17°35	0°21	7°37	20°32	9°D 4	9°59	6°29	n.a.	T 26
W27	2 9 5	1° 7'15	29°59	20°44	16°29	22°19	24°26	17°41	0°22	7°38	20°31	9°R 4	9°56	6°35	n.a.	W27
T 28	2 13 2	2° 8'09	13♌59	22° 4	17°38	23° 2	24°40	17°47	0°23	7°39	20°30	9° 3	9°52	6°42	n.a.	T 28
F 29	2 16 58	3° 9'04	28°15	23°22	18°47	23°45	24°53	17°53	0°23	7°40	20°30	9° 1	9°49	6°49	n.a.	F 29
S 30	2 20 55	4°10'00	12♍44	24°39	19°55	24°27	25° 6	17°59	0°24	7°42	20°29	8°56	9°46	6°56	n.a.	S 30
S 31	2 24 51	5♏10'58	27♍23	25♏53	21♍ 5	25♎10	25♏19	18♍ 4	0♌24	7♑43	20♓28	8♋48	9♋43	7♓ 2	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s58	18n18	2n59	5s 2	0s12	15n 2	0s29	1s 8	0n34	17s13	0n29	8n 2	2n10	21n 2	0n37	23s12	0n19	19s42	17s36	23n10	23n13	14s 4		n.a.
S 2	2 22	14 3	3 55	5 45	0 18	14 49	0 23	1 25	0 33	17 16	0 28	7 59	2 10	21 1	0 37	23 12	0 19	19 42	17 35	23 10	23 14	14 2		n.a.
S 3	2 46	8 52	4 36	6 28	0 25	14 35	0 17	1 42	0 33	17 20	0 28	7 57	2 10	21 1	0 37	23 12	0 19	19 42	17 35	23 11	23 14	14 0		n.a.
M 4	3 10	3 8	4 57	7 11	0 31	14 21	0 11	1 59	0 32	17 23	0 28	7 54	2 11	21 0	0 37	23 12	0 19	19 43	17 35	23 12	23 14	13 58		n.a.
T 5	3 34	2s44	4 58	7 53	0 38	14 6	0 6	2 16	0 32	17 27	0 28	7 51	2 11	21 0	0 37	23 12	0 19	19 43	17 35	23 13	23 15	13 56		n.a.
W 6	3 58	8 21	4 39	8 35	0 45	13 51	0n 0	2 33	0 31	17 30	0 28	7 49	2 11	21 0	0 37	23 12	0 19	19 43	17 35	23 14	23 15	13 54		n.a.
T 7	4 22	13 22	4 2	9 16	0 51	13 35	0 6	2 51	0 31	17 33	0 28	7 46	2 11	20 59	0 37	23 12	0 19	19 44	17 35	23 15	23 15	13 52		n.a.
F 8	4 46	17 30	3 13	9 56	0 57	13 19	0 11	3 8	0 30	17 37	0 28	7 44	2 11	20 59	0 37	23 12	0 19	19 44	17 35	23 15	23 15	13 50		n.a.
S 9	5 10	20 36	2 14	10 37	1 4	13 2	0 16	3 25	0 30	17 40	0 27	7 41	2 11	20 59	0 37	23 12	0 19	19 44	17 35	23 16	23 16	13 48		n.a.
S 10	5 33	22 31	1 10	11 16	1 10	12 45	0 22	3 42	0 29	17 44	0 27	7 38	2 11	20 58	0 37	23 12	0 19	19 45	17 34	23 16	23 16	13 46		n.a.
M11	5 57	23 15	0 4	11 55	1 16	12 27	0 27	3 59	0 28	17 47	0 27	7 36	2 11	20 58	0 37	23 12	0 18	19 45	17 34	23 16	23 16	13 44		n.a.
T 12	6 21	22 51	1s 0	12 33	1 22	12 9	0 32	4 16	0 28	17 50	0 27	7 33	2 12	20 58	0 37	23 12	0 18	19 45	17 34	23 16	23 16	13 42		n.a.
W13	6 44	21 23	2 0	13 11	1 28	11 50	0 36	4 33	0 27	17 54	0 27	7 31	2 12	20 58	0 37	23 12	0 18	19 45	17 34	23 16	23 17	13 40		n.a.
T 14	7 8	19 0	2 55	13 48	1 33	11 31	0 41	4 50	0 27	17 57	0 27	7 28	2 12	20 57	0 37	23 12	0 18	19 46	17 34	23 16	23 17	13 38		n.a.
F 15	7 31	15 50	3 41	14 24	1 39	11 12	0 46	5 7	0 26	18 1	0 27	7 26	2 12	20 57	0 37	23 12	0 18	19 46	17 34	23 17	23 17	13 35		n.a.
S 16	7 54	12 1	4 18	15 0	1 44	10 52	0 50	5 24	0 26	18 4	0 26	7 24	2 12	20 57	0 37	23 12	0 18	19 46	17 33	23 17	23 17	13 33		n.a.
S 17	8 17	7 43	4 45	15 34	1 49	10 32	0 55	5 41	0 25	18 7	0 26	7 21	2 12	20 57	0 37	23 12	0 18	19 46	17 33	23 18	23 18	13 31		n.a.
M18	8 40	3 6	4 58	16 8	1 54	10 11	0 59	5 58	0 25	18 11	0 26	7 19	2 12	20 56	0 37	23 12	0 18	19 47	17 33	23 19	23 18	13 29		n.a.
T 19	9 3	1n43	4 59	16 41	1 59	9 50	1 3	6 15	0 24	18 14	0 26	7 16	2 13	20 56	0 37	23 12	0 18	19 47	17 33	23 20	23 18	13 27		n.a.
W20	9 25	6 32	4 45	17 14	2 3	9 28	1 7	6 32	0 23	18 18	0 26	7 14	2 13	20 56	0 37	23 12	0 18	19 47	17 33	23 21	23 18	13 25		n.a.
T 21	9 48	11 9	4 17	17 45	2 7	9 6	1 11	6 49	0 23	18 21	0 26	7 12	2 13	20 56	0 37	23 11	0 18	19 47	17 32	23 22	23 19	13 23		n.a.
F 22	10 10	15 22	3 36	18 15	2 11	8 44	1 15	7 6	0 22	18 25	0 26	7 9	2 13	20 56	0 37	23 11	0 18	19 47	17 32	23 23	23 19	13 21		n.a.
S 23	10 33	18 56	2 44	18 44	2 15	8 21	1 18	7 22	0 22	18 28	0 26	7 7	2 13	20 55	0 37	23 11	0 18	19 47	17 32	23 24	23 19	13 19		n.a.
S 24	10 55	21 36	1 42	19 12	2 18	7 58	1 22	7 39	0 21	18 31	0 25	7 5	2 13	20 55	0 37	23 11	0 18	19 48	17 32	23 24	23 19	13 17		n.a.
M25	11 17	23 7	0 33	19 39	2 21	7 35	1 25	7 56	0 21	18 35	0 25	7 3	2 14	20 55	0 38	23 11	0 18	19 48	17 31	23 24	23 20	13 15		n.a.
T 26	11 38	23 21	0n38	20 4	2 23	7 12	1 28	8 13	0 20	18 38	0 25	7 0	2 14	20 55	0 38	23 11	0 18	19 48	17 31	23 24	23 20	13 13		n.a.
W27	12 0	22 9	1 49	20 28	2 25	6 48	1 32	8 29	0 19	18 41	0 25	6 58	2 14	20 55	0 38	23 11	0 18	19 48	17 31	23 24	23 20	13 11		n.a.
T 28	12 21	19 36	2 54	20 51	2 27	6 23	1 35	8 46	0 19	18 45	0 25	6 56	2 14	20 55	0 38	23 11	0 18	19 48	17 31	23 24	23 20	13 9		n.a.
F 29	12 42	15 49	3 50	21 12	2 28	5 59	1 38	9 2	0 18	18 48	0 25	6 54	2 14	20 55	0 38	23 11	0 18	19 48	17 30	23 24	23 21	13 7		n.a.
S 30	13 3	11 2	4 33	21 32	2 28	5 34	1 40	9 19	0 18	18 52	0 25	6 52	2 14	20 55	0 38	23 11	0 18	19 48	17 30	23 24	23 21	13 5		n.a.
S 31	13s24	5n35	4n57	21s50	2s28	5n 9	1n43	9s35	0n17	18s55	0n25	6n50	2n15	20n54	0n38	23s11	0n18	19s48	17s30	23n25	23n21	13s 2		n.a.

Julian Day Number = 1670196.5, Delta T = 03h20m59s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'11, Lahiri = - 5°53'10 Julian Calendar 1 Oct. 141 BCE == Greg. Calendar 28 Sept. 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

NOVEMBER 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 28 48	6♏11'58	12♎ 6	27♏ 5	22♍14	25♎53	25♏33	18♍10	0♌25	7♑44	20°R27	8°R39	9♋40	7♓ 9	n.a.	M 1
T 2	2 32 45	7°12'58	26°45	28°15	23°23	26°36	25°46	18°16	0°25	7°45	20♓26	8♋28	9°36	7°16	n.a.	T 2
W 3	2 36 41	8°14'00	11♏12	29°21	24°33	27°19	26° 0	18°21	0°25	7°47	20°26	8°18	9°33	7°22	n.a.	W 3
T 4	2 40 38	9°15'03	25°20	0♐24	25°42	28° 2	26°13	18°27	0°26	7°48	20°25	8°10	9°30	7°29	n.a.	T 4
F 5	2 44 34	10°16'07	9♐ 6	1°22	26°52	28°45	26°27	18°32	0°26	7°50	20°24	8° 4	9°27	7°36	n.a.	F 5
S 6	2 48 31	11°17'12	22°26	2°16	28° 2	29°28	26°40	18°38	0°26	7°51	20°24	8° 0	9°24	7°42	n.a.	S 6
S 7	2 52 27	12°18'17	5♑21	3° 5	29°13	0♏11	26°54	18°43	0°26	7°52	20°23	7°D59	9°21	7°49	n.a.	S 7
M 8	2 56 24	13°19'23	17°54	3°48	0♎23	0°54	27° 7	18°48	0°R26	7°54	20°22	7°59	9°17	7°56	n.a.	M 8
T 9	3 0 20	14°20'30	0♒ 9	4°24	1°33	1°38	27°21	18°53	0°26	7°55	20°22	8° 0	9°14	8° 3	n.a.	T 9
W10	3 4 17	15°21'38	12°10	4°52	2°44	2°21	27°35	18°58	0°26	7°57	20°21	8°R 1	9°11	8° 9	n.a.	W10
T 11	3 8 14	16°22'45	24° 3	5°12	3°55	3° 4	27°48	19° 3	0°26	7°59	20°21	8° 1	9° 8	8°16	n.a.	T 11
F 12	3 12 10	17°23'54	5♓53	5°22	5° 5	3°48	28° 2	19° 8	0°26	8° 0	20°20	7°59	9° 5	8°23	n.a.	F 12
S 13	3 16 7	18°25'03	17°46	5°R23	6°16	4°31	28°16	19°13	0°26	8° 2	20°19	7°54	9° 1	8°29	n.a.	S 13
S 14	3 20 3	19°26'12	29°44	5°12	7°27	5°14	28°29	19°18	0°25	8° 3	20°19	7°48	8°58	8°36	n.a.	S 14
M15	3 24 0	20°27'22	11♈53	4°50	8°39	5°58	28°43	19°23	0°25	8° 5	20°18	7°40	8°55	8°43	n.a.	M15
T 16	3 27 56	21°28'32	24°14	4°16	9°50	6°41	28°57	19°27	0°25	8° 7	20°18	7°31	8°52	8°49	n.a.	T 16
W17	3 31 53	22°29'42	6♉49	3°31	11° 1	7°25	29°10	19°32	0°24	8° 8	20°17	7°22	8°49	8°56	n.a.	W17
T 18	3 35 49	23°30'53	19°39	2°35	12°13	8° 9	29°24	19°36	0°24	8°10	20°17	7°14	8°46	9° 3	n.a.	T 18
F 19	3 39 46	24°32'05	2♊43	1°29	13°24	8°52	29°38	19°41	0°23	8°12	20°17	7° 8	8°42	9°10	n.a.	F 19
S 20	3 43 43	25°33'17	16° 0	0°16	14°36	9°36	29°52	19°45	0°23	8°14	20°16	7° 4	8°39	9°16	n.a.	S 20
S 21	3 47 39	26°34'30	29°28	28♏57	15°48	10°20	0♐ 6	19°49	0°22	8°15	20°16	7° 2	8°36	9°23	n.a.	S 21
M22	3 51 36	27°35'43	13♋ 6	27°35	17° 0	11° 4	0°19	19°53	0°21	8°17	20°15	7°D 2	8°33	9°30	n.a.	M22
T 23	3 55 32	28°36'57	26°53	26°12	18°12	11°47	0°33	19°58	0°20	8°19	20°15	7° 3	8°30	9°36	n.a.	T 23
W24	3 59 29	29°38'12	10♌48	24°53	19°24	12°31	0°47	20° 2	0°20	8°21	20°15	7° 5	8°27	9°43	n.a.	W24
T 25	4 3 25	0♐39'27	24°51	23°38	20°36	13°15	1° 1	20° 5	0°19	8°23	20°14	7°R 6	8°23	9°50	n.a.	T 25
F 26	4 7 22	1°40'42	8♍59	22°30	21°49	13°59	1°15	20° 9	0°18	8°25	20°14	7° 6	8°20	9°57	n.a.	F 26
S 27	4 11 18	2°41'58	23°12	21°31	23° 1	14°43	1°29	20°13	0°17	8°27	20°14	7° 4	8°17	10° 3	n.a.	S 27
S 28	4 15 15	3°43'14	7♎27	20°42	24°13	15°27	1°42	20°17	0°16	8°29	20°14	7° 1	8°14	10°10	n.a.	S 28
M29	4 19 12	4°44'31	21°42	20° 3	25°26	16°11	1°56	20°20	0°15	8°31	20°14	6°56	8°11	10°17	n.a.	M29
T 30	4 23 8	5♐45'48	5♏51	19♏34	26♎38	16♏56	2♐10	20♍24	0♌13	8♑33	20♓13	6♋51	8♋ 7	10♓23	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s44	0s12	5n 3	22s 7	2s27	4n44	1n45	9s51	0n16	18s58	0n24	6n48	2n15	20n54	0n38	23s11	0n18	19s48	17s30	23n26	23n21	13s 0		n.a.
T 2	14 5	5 57	4 48	22 21	2 26	4 18	1 48	10 8	0 16	19 2	0 24	6 46	2 15	20 54	0 38	23 11	0 18	19 48	17 29	23 26	23 22	12 58		n.a.
W 3	14 25	11 19	4 15	22 34	2 23	3 52	1 50	10 24	0 15	19 5	0 24	6 44	2 15	20 54	0 38	23 11	0 18	19 48	17 29	23 27	23 22	12 56		n.a.
T 4	14 44	15 58	3 27	22 45	2 20	3 26	1 52	10 40	0 15	19 8	0 24	6 42	2 15	20 54	0 38	23 11	0 18	19 48	17 29	23 27	23 22	12 54		n.a.
F 5	15 4	19 38	2 28	22 53	2 16	3 0	1 54	10 56	0 14	19 11	0 24	6 40	2 16	20 54	0 38	23 11	0 18	19 49	17 29	23 28	23 22	12 52		n.a.
S 6	15 23	22 7	1 22	22 59	2 11	2 34	1 56	11 12	0 13	19 15	0 24	6 38	2 16	20 54	0 38	23 11	0 18	19 49	17 28	23 28	23 22	12 50		n.a.
S 7	15 42	23 22	0 14	23 3	2 4	2 7	1 58	11 28	0 13	19 18	0 24	6 36	2 16	20 54	0 38	23 11	0 18	19 49	17 28	23 28	23 23	12 48		n.a.
M 8	16 1	23 22	0s53	23 4	1 57	1 41	2 0	11 44	0 12	19 21	0 24	6 34	2 16	20 54	0 38	23 11	0 18	19 48	17 28	23 28	23 23	12 46		n.a.
T 9	16 19	22 14	1 56	23 2	1 48	1 14	2 1	12 0	0 12	19 25	0 24	6 32	2 16	20 54	0 38	23 10	0 18	19 48	17 27	23 28	23 23	12 43		n.a.
W10	16 38	20 6	2 53	22 58	1 39	0 47	2 3	12 15	0 11	19 28	0 23	6 30	2 17	20 54	0 38	23 10	0 18	19 48	17 27	23 28	23 23	12 41		n.a.
T 11	16 55	17 8	3 42	22 50	1 27	0 20	2 4	12 31	0 10	19 31	0 23	6 28	2 17	20 55	0 38	23 10	0 18	19 48	17 27	23 28	23 24	12 39		n.a.
F 12	17 13	13 29	4 21	22 40	1 14	0s 8	2 6	12 46	0 10	19 34	0 23	6 27	2 17	20 55	0 38	23 10	0 18	19 48	17 26	23 28	23 24	12 37		n.a.
S 13	17 30	9 19	4 49	22 26	1 0	0 35	2 7	13 2	0 9	19 37	0 23	6 25	2 17	20 55	0 38	23 10	0 18	19 48	17 26	23 28	23 24	12 35		n.a.
S 14	17 47	4 45	5 4	22 8	0 44	1 2	2 8	13 17	0 8	19 41	0 23	6 23	2 18	20 55	0 38	23 10	0 18	19 48	17 26	23 29	23 24	12 33		n.a.
M15	18 4	0n 3	5 6	21 48	0 27	1 30	2 9	13 32	0 8	19 44	0 23	6 22	2 18	20 55	0 38	23 10	0 18	19 48	17 25	23 29	23 24	12 31		n.a.
T 16	18 20	4 56	4 54	21 23	0 9	1 58	2 9	13 47	0 7	19 47	0 23	6 20	2 18	20 55	0 38	23 10	0 18	19 48	17 25	23 30	23 25	12 28		n.a.
W17	18 36	9 44	4 28	20 56	0n10	2 25	2 10	14 2	0 6	19 50	0 23	6 18	2 18	20 55	0 38	23 10	0 18	19 48	17 25	23 30	23 25	12 26		n.a.
T 18	18 52	14 12	3 48	20 25	0 30	2 53	2 11	14 17	0 6	19 53	0 23	6 17	2 19	20 55	0 39	23 10	0 18	19 48	17 24	23 31	23 25	12 24		n.a.
F 19	19 7	18 5	2 55	19 52	0 51	3 20	2 11	14 32	0 5	19 56	0 22	6 15	2 19	20 56	0 39	23 10	0 18	19 48	17 24	23 31	23 25	12 22		n.a.
S 20	19 22	21 7	1 52	19 17	1 11	3 48	2 11	14 47	0 5	19 59	0 22	6 14	2 19	20 56	0 39	23 10	0 18	19 47	17 24	23 31	23 26	12 20		n.a.
S 21	19 37	23 2	0 41	18 41	1 30	4 16	2 12	15 1	0 4	20 2	0 22	6 12	2 19	20 56	0 39	23 9	0 18	19 47	17 23	23 31	23 26	12 18		n.a.
M22	19 51	23 36	0n33	18 5	1 49	4 44	2 12	15 16	0 3	20 5	0 22	6 11	2 19	20 56	0 39	23 9	0 18	19 47	17 23	23 31	23 26	12 15		n.a.
T 23	20 5	22 45	1 46	17 29	2 6	5 11	2 12	15 30	0 3	20 8	0 22	6 9	2 20	20 56	0 39	23 9	0 18	19 47	17 23	23 31	23 26	12 13		n.a.
W24	20 18	20 30	2 53	16 55	2 21	5 39	2 12	15 44	0 2	20 11	0 22	6 8	2 20	20 56	0 39	23 9	0 18	19 47	17 22	23 31	23 26	12 11		n.a.
T 25	20 31	17 0	3 51	16 25	2 34	6 6	2 12	15 58	0 1	20 14	0 22	6 7	2 20	20 57	0 39	23 9	0 18	19 47	17 22	23 31	23 27	12 9		n.a.
F 26	20 44	12 32	4 35	15 57	2 45	6 34	2 11	16 12	0 1	20 17	0 22	6 5	2 20	20 57	0 39	23 9	0 18	19 46	17 22	23 31	23 27	12 7		n.a.
S 27	20 56	7 21	5 3	15 34	2 53	7 1	2 11	16 26	0s 0	20 20	0 22	6 4	2 21	20 57	0 39	23 9	0 18	19 46	17 21	23 31	23 27	12 4		n.a.
S 28	21 8	1 46	5 12	15 15	2 59	7 29	2 11	16 40	0 1	20 23	0 22	6 3	2 21	20 57	0 39	23 9	0 17	19 46	17 21	23 31	23 27	12 2		n.a.
M29	21 20	3s54	5 1	15 2	3 2	7 56	2 10	16 53	0 1	20 26	0 21	6 2	2 21	20 58	0 39	23 9	0 17	19 46	17 21	23 32	23 27	12 0		n.a.
T 30	21s31	9s20	4n33	14s52	3n 4	8s23	2n 9	17s 7	0s 2	20s29	0n21	6n 1	2n22	20n58	0n39	23s 9	0n17	19s45	17s20	23n32	23n28	11s58		n.a.

Julian Day Number = 1670227.5, Delta T = 03h20m58s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'07, Lahiri = - 5°53'06 Julian Calendar 1 Nov. 141 BCE == Greg. Calendar 29 Oct. 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 141 BCE
geocentric

DECEMBER 141 BCE (-140) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 27 5	6♐47'05	19♏50	19°R16	27♎51	17♏40	2♐24	20♍27	0°R12	8♑35	20°R13	6°R46	8♋ 4	10♓30	n.a.	W 1
T 2	4 31 1	7°48'23	3♐36	19°D 8	29° 4	18°24	2°38	20°30	0♌11	8°37	20♓13	6♋42	8° 1	10°37	n.a.	T 2
F 3	4 34 58	8°49'40	17° 4	19♏10	0♏17	19° 8	2°51	20°33	0°10	8°39	20°13	6°39	7°58	10°43	n.a.	F 3
S 4	4 38 54	9°50'57	0♑14	19°20	1°29	19°53	3° 5	20°37	0° 8	8°41	20°13	6°38	7°55	10°50	n.a.	S 4
S 5	4 42 51	10°52'14	13° 4	19°38	2°42	20°37	3°19	20°40	0° 7	8°43	20°13	6°D38	7°52	10°57	n.a.	S 5
M 6	4 46 48	11°53'31	25°36	20° 4	3°55	21°21	3°33	20°42	0° 6	8°45	20°13	6°39	7°48	11° 4	n.a.	M 6
T 7	4 50 44	12°54'47	7♒51	20°36	5° 8	22° 6	3°47	20°45	0° 4	8°47	20°D13	6°40	7°45	11°10	n.a.	T 7
W 8	4 54 41	13°56'03	19°55	21°14	6°21	22°50	4° 0	20°48	0° 3	8°49	20°13	6°42	7°42	11°17	n.a.	W 8
T 9	4 58 37	14°57'18	1♓50	21°57	7°34	23°35	4°14	20°51	0° 1	8°51	20°13	6°44	7°39	11°24	n.a.	T 9
F 10	5 2 34	15°58'33	13°41	22°45	8°47	24°19	4°28	20°53	29♋59	8°53	20°13	6°R44	7°36	11°30	n.a.	F 10
S 11	5 6 30	16°59'46	25°34	23°37	10° 1	25° 4	4°42	20°55	29°58	8°55	20°13	6°44	7°33	11°37	n.a.	S 11
S 12	5 10 27	18° 0'59	7♈33	24°33	11°14	25°49	4°55	20°58	29°56	8°57	20°13	6°43	7°29	11°44	n.a.	S 12
M13	5 14 23	19° 2'12	19°43	25°33	12°27	26°33	5° 9	21° 0	29°54	9° 0	20°13	6°41	7°26	11°51	n.a.	M13
T 14	5 18 20	20° 3'24	2♉ 7	26°35	13°40	27°18	5°23	21° 2	29°52	9° 2	20°13	6°38	7°23	11°57	n.a.	T 14
W15	5 22 17	21° 4'35	14°49	27°40	14°54	28° 3	5°36	21° 4	29°51	9° 4	20°13	6°36	7°20	12° 4	n.a.	W15
T 16	5 26 13	22° 5'45	27°50	28°48	16° 7	28°48	5°50	21° 6	29°49	9° 6	20°14	6°34	7°17	12°11	n.a.	T 16
F 17	5 30 10	23° 6'54	11♊10	29°58	17°21	29°32	6° 3	21° 8	29°47	9° 8	20°14	6°32	7°13	12°17	n.a.	F 17
S 18	5 34 6	24° 8'03	24°49	1♐ 9	18°34	0♐17	6°17	21° 9	29°45	9°11	20°14	6°31	7°10	12°24	n.a.	S 18
S 19	5 38 3	25° 9'12	8♋44	2°23	19°47	1° 2	6°30	21°11	29°43	9°13	20°14	6°D31	7° 7	12°31	n.a.	S 19
M20	5 41 59	26°10'19	22°51	3°38	21° 1	1°47	6°44	21°13	29°41	9°15	20°15	6°31	7° 4	12°38	n.a.	M20
T 21	5 45 56	27°11'26	7♌ 7	4°55	22°14	2°32	6°57	21°14	29°39	9°17	20°15	6°32	7° 1	12°44	n.a.	T 21
W22	5 49 53	28°12'32	21°26	6°13	23°28	3°17	7°11	21°15	29°37	9°20	20°15	6°33	6°58	12°51	n.a.	W22
T 23	5 53 49	29°13'38	5♍46	7°33	24°42	4° 2	7°24	21°16	29°35	9°22	20°16	6°33	6°54	12°58	n.a.	T 23
F 24	5 57 46	0♑14'43	20° 2	8°54	25°55	4°47	7°37	21°17	29°32	9°24	20°16	6°34	6°51	13° 4	n.a.	F 24
S 25	6 1 42	1°15'47	4♎13	10°15	27° 9	5°32	7°51	21°18	29°30	9°26	20°16	6°R34	6°48	13°11	n.a.	S 25
S 26	6 5 39	2°16'51	18°15	11°38	28°23	6°17	8° 4	21°19	29°28	9°29	20°17	6°34	6°45	13°18	n.a.	S 26
M27	6 9 35	3°17'54	2♏ 8	13° 2	29°36	7° 3	8°17	21°20	29°26	9°31	20°17	6°33	6°42	13°25	n.a.	M27
T 28	6 13 32	4°18'57	15°50	14°27	0♐50	7°48	8°30	21°21	29°24	9°33	20°18	6°33	6°39	13°31	n.a.	T 28
W29	6 17 28	5°19'58	29°20	15°53	2° 4	8°33	8°43	21°21	29°21	9°35	20°18	6°33	6°35	13°38	n.a.	W29
T 30	6 21 25	6°20'59	12♐38	17°19	3°18	9°18	8°57	21°22	29°19	9°38	20°19	6°D33	6°32	13°45	n.a.	T 30
F 31	6 25 22	7♑21'59	25♐42	18♐47	4♐32	10♐ 4	9♐10	21♍22	29♋17	9♑40	20♓19	6♋33	6♋29	13♓51	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	21s41	14s14	3n48	14s47	3n 4	8s50	2n 9	17s20	0s 3	20s32	0n21	6n 0	2n22	20n58	0n39	23s 8	0n17	19s45	17s20	23n32	23n28	11s56			n.a.
T 2	21 52	18 19	2 51	14 47	3 3	9 17	2 8	17 33	0 3	20 35	0 21	5 59	2 22	20 59	0 39	23 8	0 17	19 45	17 19	23 32	23 28	11 53			n.a.
F 3	22 1	21 20	1 45	14 50	3 0	9 43	2 7	17 46	0 4	20 37	0 21	5 58	2 22	20 59	0 39	23 8	0 17	19 45	17 19	23 33	23 28	11 51			n.a.
S 4	22 11	23 8	0 35	14 56	2 56	10 10	2 6	17 59	0 5	20 40	0 21	5 57	2 23	20 59	0 39	23 8	0 17	19 44	17 19	23 33	23 28	11 49			n.a.
S 5	22 20	23 39	0s35	15 6	2 51	10 36	2 5	18 12	0 5	20 43	0 21	5 56	2 23	21 0	0 39	23 8	0 17	19 44	17 18	23 33	23 29	11 47			n.a.
M 6	22 28	22 57	1 42	15 18	2 45	11 2	2 4	18 24	0 6	20 46	0 21	5 55	2 23	21 0	0 39	23 8	0 17	19 44	17 18	23 33	23 29	11 44			n.a.
T 7	22 36	21 8	2 43	15 33	2 39	11 28	2 2	18 36	0 7	20 48	0 21	5 54	2 23	21 0	0 39	23 8	0 17	19 43	17 18	23 32	23 29	11 42			n.a.
W 8	22 44	18 25	3 36	15 50	2 32	11 53	2 1	18 49	0 7	20 51	0 21	5 53	2 24	21 1	0 39	23 8	0 17	19 43	17 17	23 32	23 29	11 40			n.a.
T 9	22 51	14 58	4 19	16 8	2 24	12 19	2 0	19 1	0 8	20 54	0 21	5 52	2 24	21 1	0 39	23 7	0 17	19 43	17 17	23 32	23 29	11 38			n.a.
F 10	22 58	10 57	4 50	16 28	2 17	12 44	1 58	19 12	0 9	20 56	0 20	5 51	2 24	21 1	0 39	23 7	0 17	19 42	17 16	23 32	23 29	11 36			n.a.
S 11	23 4	6 30	5 9	16 49	2 8	13 9	1 56	19 24	0 9	20 59	0 20	5 51	2 25	21 2	0 39	23 7	0 17	19 42	17 16	23 32	23 30	11 33			n.a.
S 12	23 10	1 48	5 15	17 11	2 0	13 33	1 55	19 36	0 10	21 2	0 20	5 50	2 25	21 2	0 39	23 7	0 17	19 41	17 16	23 32	23 30	11 31			n.a.
M13	23 15	3n 3	5 7	17 34	1 52	13 57	1 53	19 47	0 11	21 4	0 20	5 49	2 25	21 3	0 39	23 7	0 17	19 41	17 15	23 32	23 30	11 29			n.a.
T 14	23 20	7 53	4 45	17 57	1 43	14 21	1 51	19 58	0 12	21 7	0 20	5 49	2 25	21 3	0 39	23 7	0 17	19 41	17 15	23 33	23 30	11 27			n.a.
W15	23 24	12 31	4 8	18 20	1 34	14 45	1 50	20 9	0 12	21 9	0 20	5 48	2 26	21 3	0 39	23 7	0 17	19 40	17 15	23 33	23 30	11 24			n.a.
T 16	23 28	16 41	3 18	18 44	1 26	15 8	1 48	20 20	0 13	21 12	0 20	5 48	2 26	21 4	0 40	23 7	0 17	19 40	17 14	23 33	23 31	11 22			n.a.
F 17	23 32	20 8	2 16	19 7	1 17	15 31	1 46	20 30	0 14	21 14	0 20	5 47	2 26	21 4	0 40	23 6	0 17	19 39	17 14	23 33	23 31	11 20			n.a.
S 18	23 35	22 32	1 4	19 31	1 8	15 53	1 44	20 40	0 14	21 17	0 20	5 47	2 26	21 5	0 40	23 6	0 17	19 39	17 14	23 33	23 31	11 17			n.a.
S 19	23 37	23 37	0n12	19 54	1 0	16 15	1 42	20 51	0 15	21 19	0 20	5 47	2 27	21 5	0 40	23 6	0 17	19 39	17 13	23 33	23 31	11 15			n.a.
M20	23 39	23 13	1 29	20 17	0 51	16 37	1 39	21 1	0 16	21 22	0 20	5 46	2 27	21 6	0 40	23 6	0 17	19 38	17 13	23 33	23 31	11 13			n.a.
T 21	23 41	21 18	2 42	20 40	0 43	16 58	1 37	21 10	0 16	21 24	0 19	5 46	2 27	21 6	0 40	23 6	0 17	19 38	17 12	23 33	23 31	11 11			n.a.
W22	23 42	18 3	3 44	21 2	0 34	17 19	1 35	21 20	0 17	21 26	0 19	5 46	2 28	21 7	0 40	23 6	0 17	19 37	17 12	23 33	23 32	11 8			n.a.
T 23	23 43	13 43	4 33	21 24	0 26	17 40	1 33	21 29	0 18	21 29	0 19	5 46	2 28	21 7	0 40	23 6	0 17	19 37	17 12	23 33	23 32	11 6			n.a.
F 24	23 43	8 38	5 4	21 45	0 18	18 0	1 30	21 38	0 18	21 31	0 19	5 45	2 28	21 8	0 40	23 5	0 17	19 36	17 11	23 33	23 32	11 4			n.a.
S 25	23 42	3 9	5 17	22 5	0 10	18 19	1 28	21 47	0 19	21 33	0 19	5 45	2 29	21 8	0 40	23 5	0 17	19 36	17 11	23 33	23 32	11 1			n.a.
S 26	23 41	2s27	5 11	22 24	0 2	18 38	1 25	21 56	0 20	21 35	0 19	5 45	2 29	21 9	0 40	23 5	0 17	19 35	17 11	23 33	23 32	10 59			n.a.
M27	23 40	7 52	4 46	22 43	0s 6	18 57	1 23	22 4	0 21	21 38	0 19	5 45	2 29	21 9	0 40	23 5	0 17	19 35	17 10	23 33	23 32	10 57			n.a.
T 28	23 38	12 51	4 6	23 1	0 14	19 15	1 20	22 13	0 21	21 40	0 19	5 45	2 29	21 10	0 40	23 5	0 17	19 34	17 10	23 33	23 33	10 55			n.a.
W29	23 36	17 7	3 12	23 18	0 21	19 32	1 18	22 21	0 22	21 42	0 19	5 45	2 30	21 10	0 40	23 5	0 17	19 34	17 10	23 33	23 33	10 52			n.a.
T 30	23 33	20 26	2 9	23 34	0 28	19 49	1 15	22 28	0 23	21 44	0 19	5 45	2 30	21 11	0 40	23 4	0 17	19 33	17 9	23 33	23 33	10 50			n.a.
F 31	23s30	22s39	1n 0	23s49	0s35	20s 6	1n13	22s36	0s23	21s46	0n19	5n45	2n30	21n11	0n40	23s 4	0n17	19s33	17s 9	23n33	23n33	10s48			n.a.

Julian Day Number = 1670257.5, Delta T = 03h20m57s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 5°00'03, Lahiri = - 5°53'02 Julian Calendar 1 Dec. 141 BCE == Greg. Calendar 28 Nov. 141 BCE

The year -140 astronomical counting style corresponds to year 141 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

JANUARY 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 29 18	8♑22'57	8♑33	20♐15	5♐45	10♐49	9♐23	21♍22	29°R14	9♑42	20♓20	6°R33	6♋26	13♓58	n.a.	S 1
S 2	6 33 15	9°23'55	21° 9	21°44	6°59	11°35	9°36	21°22	29♋12	9°44	20°20	6♋33	6°23	14° 5	n.a.	S 2
M 3	6 37 11	10°24'51	3♒33	23°14	8°13	12°20	9°48	21°R22	29° 9	9°47	20°21	6°33	6°19	14°12	n.a.	M 3
T 4	6 41 8	11°25'46	15°44	24°44	9°27	13° 5	10° 1	21°22	29° 7	9°49	20°21	6°32	6°16	14°18	n.a.	T 4
W 5	6 45 4	12°26'39	27°46	26°16	10°41	13°51	10°14	21°22	29° 4	9°51	20°22	6°31	6°13	14°25	n.a.	W 5
T 6	6 49 1	13°27'31	9♓41	27°48	11°55	14°36	10°27	21°22	29° 2	9°54	20°23	6°30	6°10	14°32	n.a.	T 6
F 7	6 52 57	14°28'21	21°33	29°21	13° 8	15°22	10°40	21°21	28°59	9°56	20°23	6°29	6° 7	14°38	n.a.	F 7
S 8	6 56 54	15°29'09	3♈25	0♑54	14°22	16° 7	10°52	21°21	28°57	9°58	20°24	6°29	6° 4	14°45	n.a.	S 8
S 9	7 0 51	16°29'56	15°22	2°29	15°36	16°53	11° 5	21°20	28°54	10° 0	20°25	6°D28	6° 0	14°52	n.a.	S 9
M10	7 4 47	17°30'41	27°29	4° 4	16°50	17°39	11°17	21°19	28°52	10° 3	20°25	6°29	5°57	14°59	n.a.	M10
T 11	7 8 44	18°31'25	9♉51	5°40	18° 4	18°24	11°30	21°19	28°49	10° 5	20°26	6°29	5°54	15° 5	n.a.	T 11
W12	7 12 40	19°32'06	22°31	7°17	19°18	19°10	11°42	21°18	28°47	10° 7	20°27	6°30	5°51	15°12	n.a.	W12
T 13	7 16 37	20°32'46	5♊34	8°55	20°32	19°56	11°54	21°17	28°44	10° 9	20°28	6°32	5°48	15°19	n.a.	T 13
F 14	7 20 33	21°33'24	19° 1	10°33	21°46	20°41	12° 7	21°15	28°42	10°12	20°29	6°33	5°45	15°25	n.a.	F 14
S 15	7 24 30	22°34'01	2♋52	12°12	23° 0	21°27	12°19	21°14	28°39	10°14	20°29	6°R33	5°41	15°32	n.a.	S 15
S 16	7 28 26	23°34'36	17° 6	13°53	24°14	22°13	12°31	21°13	28°36	10°16	20°30	6°33	5°38	15°39	n.a.	S 16
M17	7 32 23	24°35'09	1♌38	15°34	25°28	22°59	12°43	21°11	28°34	10°18	20°31	6°32	5°35	15°46	n.a.	M17
T 18	7 36 20	25°35'40	16°22	17°16	26°42	23°45	12°55	21°10	28°31	10°21	20°32	6°30	5°32	15°52	n.a.	T 18
W19	7 40 16	26°36'10	1♍12	18°58	27°56	24°30	13° 7	21° 8	28°29	10°23	20°33	6°27	5°29	15°59	n.a.	W19
T 20	7 44 13	27°36'38	15°58	20°42	29°10	25°16	13°19	21° 7	28°26	10°25	20°34	6°25	5°25	16° 6	n.a.	T 20
F 21	7 48 9	28°37'05	0♎35	22°27	0♑24	26° 2	13°30	21° 5	28°23	10°27	20°35	6°22	5°22	16°12	n.a.	F 21
S 22	7 52 6	29°37'30	14°57	24°13	1°38	26°48	13°42	21° 3	28°21	10°29	20°36	6°20	5°19	16°19	n.a.	S 22
S 23	7 56 2	0♒37'54	29° 1	25°59	2°52	27°34	13°54	21° 1	28°18	10°32	20°37	6°D20	5°16	16°26	n.a.	S 23
M24	7 59 59	1°38'16	12♏47	27°47	4° 6	28°20	14° 5	20°59	28°15	10°34	20°38	6°20	5°13	16°33	n.a.	M24
T 25	8 3 55	2°38'37	26°14	29°35	5°20	29° 6	14°16	20°56	28°13	10°36	20°39	6°21	5°10	16°39	n.a.	T 25
W26	8 7 52	3°38'56	9♐24	1♒25	6°34	29°52	14°28	20°54	28°10	10°38	20°40	6°23	5° 6	16°46	n.a.	W26
T 27	8 11 49	4°39'14	22°18	3°15	7°48	0♑38	14°39	20°52	28° 8	10°40	20°41	6°24	5° 3	16°53	n.a.	T 27
F 28	8 15 45	5°39'30	5♑ 0	5° 7	9° 2	1°24	14°50	20°49	28° 5	10°42	20°42	6°R25	5° 0	16°59	n.a.	F 28
S 29	8 19 42	6°39'44	17°30	6°59	10°16	2°10	15° 1	20°47	28° 2	10°44	20°43	6°24	4°57	17° 6	n.a.	S 29
S 30	8 23 38	7°39'56	29°50	8°52	11°30	2°56	15°12	20°44	28° 0	10°46	20°44	6°22	4°54	17°13	n.a.	S 30
M31	8 27 35	8♒40'07	12♒ 1	10♒46	12♑44	3♑42	15♐23	20♍41	27♋57	10♑49	20♓45	6♋18	4♋51	17♓20	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s27	23s37	0s11	24s 3	0s42	20s22	1n10	22s43	0s24	21s48	0n19	5n46	2n31	21n12	0n40	23s 4	0n17	19s32	17s 8	23n33	23n33	10s45		n.a.
S 2	23 22	23 21	1 20	24 16	0 49	20 37	1 7	22 50	0 25	21 50	0 19	5 46	2 31	21 12	0 40	23 4	0 17	19 32	17 8	23 33	23 33	10 43		n.a.
M 3	23 18	21 55	2 24	24 27	0 55	20 52	1 4	22 57	0 26	21 52	0 18	5 46	2 31	21 13	0 40	23 4	0 17	19 31	17 8	23 33	23 34	10 41		n.a.
T 4	23 13	19 29	3 21	24 37	1 1	21 6	1 2	23 4	0 26	21 54	0 18	5 46	2 31	21 13	0 40	23 4	0 17	19 31	17 7	23 33	23 34	10 38		n.a.
W 5	23 7	16 15	4 7	24 47	1 7	21 20	0 59	23 10	0 27	21 56	0 18	5 47	2 32	21 14	0 40	23 4	0 17	19 30	17 7	23 33	23 34	10 36		n.a.
T 6	23 1	12 23	4 43	24 54	1 13	21 33	0 56	23 16	0 28	21 58	0 18	5 47	2 32	21 14	0 40	23 3	0 17	19 29	17 7	23 33	23 34	10 34		n.a.
F 7	22 55	8 4	5 6	25 1	1 18	21 45	0 53	23 22	0 28	22 0	0 18	5 48	2 32	21 15	0 40	23 3	0 17	19 29	17 6	23 33	23 34	10 31		n.a.
S 8	22 48	3 27	5 16	25 6	1 23	21 57	0 51	23 28	0 29	22 2	0 18	5 48	2 33	21 15	0 40	23 3	0 17	19 28	17 6	23 33	23 34	10 29		n.a.
S 9	22 41	1n19	5 13	25 10	1 28	22 8	0 48	23 33	0 30	22 4	0 18	5 49	2 33	21 16	0 40	23 3	0 17	19 28	17 6	23 33	23 34	10 27		n.a.
M10	22 33	6 6	4 56	25 12	1 33	22 19	0 45	23 38	0 31	22 6	0 18	5 49	2 33	21 16	0 40	23 3	0 17	19 27	17 5	23 33	23 35	10 24		n.a.
T 11	22 25	10 45	4 25	25 12	1 37	22 28	0 42	23 43	0 31	22 7	0 18	5 50	2 33	21 17	0 40	23 3	0 17	19 26	17 5	23 33	23 35	10 22		n.a.
W12	22 16	15 4	3 40	25 12	1 41	22 38	0 39	23 48	0 32	22 9	0 18	5 50	2 34	21 18	0 40	23 2	0 17	19 26	17 5	23 33	23 35	10 20		n.a.
T 13	22 7	18 48	2 43	25 9	1 45	22 46	0 36	23 52	0 33	22 11	0 18	5 51	2 34	21 18	0 40	23 2	0 17	19 25	17 4	23 33	23 35	10 17		n.a.
F 14	21 58	21 40	1 36	25 5	1 48	22 54	0 33	23 56	0 33	22 13	0 18	5 52	2 34	21 19	0 40	23 2	0 17	19 25	17 4	23 33	23 35	10 15		n.a.
S 15	21 48	23 20	0 20	25 0	1 51	23 1	0 30	24 0	0 34	22 14	0 18	5 52	2 34	21 19	0 40	23 2	0 17	19 24	17 4	23 33	23 35	10 12		n.a.
S 16	21 38	23 34	0n58	24 52	1 54	23 8	0 27	24 4	0 35	22 16	0 17	5 53	2 35	21 20	0 40	23 2	0 17	19 23	17 4	23 33	23 35	10 10		n.a.
M17	21 27	22 12	2 14	24 43	1 57	23 13	0 25	24 7	0 36	22 18	0 17	5 54	2 35	21 20	0 40	23 2	0 17	19 23	17 3	23 33	23 36	10 8		n.a.
T 18	21 16	19 19	3 22	24 33	1 59	23 19	0 22	24 10	0 36	22 19	0 17	5 55	2 35	21 21	0 40	23 1	0 17	19 22	17 3	23 33	23 36	10 5		n.a.
W19	21 4	15 10	4 17	24 20	2 0	23 23	0 19	24 13	0 37	22 21	0 17	5 56	2 36	21 21	0 40	23 1	0 17	19 22	17 3	23 33	23 36	10 3		n.a.
T 20	20 53	10 7	4 55	24 6	2 1	23 27	0 16	24 15	0 38	22 22	0 17	5 57	2 36	21 22	0 40	23 1	0 17	19 21	17 2	23 33	23 36	10 1		n.a.
F 21	20 40	4 32	5 13	23 50	2 2	23 30	0 13	24 17	0 38	22 24	0 17	5 58	2 36	21 22	0 40	23 1	0 17	19 20	17 2	23 33	23 36	9 58		n.a.
S 22	20 28	1s11	5 11	23 32	2 2	23 32	0 10	24 19	0 39	22 25	0 17	5 59	2 36	21 23	0 40	23 1	0 17	19 20	17 2	23 33	23 36	9 56		n.a.
S 23	20 15	6 44	4 50	23 12	2 2	23 34	0 7	24 21	0 40	22 27	0 17	6 0	2 37	21 24	0 40	23 1	0 17	19 19	17 1	23 34	23 36	9 53		n.a.
M24	20 1	11 50	4 13	22 50	2 2	23 34	0 4	24 23	0 41	22 28	0 17	6 1	2 37	21 24	0 40	23 0	0 17	19 18	17 1	23 34	23 36	9 51		n.a.
T 25	19 48	16 14	3 23	22 26	2 1	23 35	0 2	24 24	0 41	22 30	0 17	6 2	2 37	21 25	0 40	23 0	0 17	19 18	17 1	23 33	23 37	9 49		n.a.
W26	19 33	19 45	2 23	22 1	1 59	23 34	0s 1	24 25	0 42	22 31	0 17	6 3	2 37	21 25	0 40	23 0	0 17	19 17	17 1	23 33	23 37	9 46		n.a.
T 27	19 19	22 13	1 17	21 33	1 57	23 33	0 4	24 25	0 43	22 33	0 17	6 4	2 38	21 26	0 40	23 0	0 17	19 16	17 0	23 33	23 37	9 44		n.a.
F 28	19 4	23 29	0 8	21 4	1 55	23 31	0 7	24 26	0 43	22 34	0 17	6 5	2 38	21 26	0 40	23 0	0 17	19 16	17 0	23 33	23 37	9 41		n.a.
S 29	18 49	23 33	1s 0	20 32	1 52	23 28	0 9	24 26	0 44	22 35	0 16	6 7	2 38	21 27	0 40	23 0	0 17	19 15	17 0	23 33	23 37	9 39		n.a.
S 30	18 34	22 27	2 5	19 59	1 48	23 25	0 12	24 25	0 45	22 37	0 16	6 8	2 38	21 27	0 40	22 59	0 17	19 14	17 0	23 33	23 37	9 37		n.a.
M31	18s18	20s18	3s 2	19s24	1s44	23s21	0s15	24s25	0s45	22s38	0n16	6n 9	2n39	21n28	0n40	22s59	0n17	19s14	16s59	23n34	23n37	9s34		n.a.

Julian Day Number = 1670288.5, Delta T = 03h20m56s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'58, Lahiri = - 5°52'58 Julian Calendar 1 Jan. 140 BCE == Greg. Calendar 29 Dec. 141 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

FEBRUARY 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 31 31	9♒40'15	24♒ 5	12♒40	13♉58	4♉29	15♐34	20°R38	27°R55	10♉51	20♓46	6°R13	4♋47	17♓26	n.a.	T 1
W 2	8 35 28	10°40'22	6♓ 3	14°36	15°12	5°15	15°45	20♍36	27♋52	10°53	20°47	6♋ 7	4°44	17°33	n.a.	W 2
T 3	8 39 24	11°40'26	17°56	16°32	16°26	6° 1	15°55	20°33	27°50	10°55	20°48	6° 0	4°41	17°40	n.a.	T 3
F 4	8 43 21	12°40'28	29°47	18°28	17°40	6°47	16° 6	20°29	27°47	10°57	20°49	5°53	4°38	17°46	n.a.	F 4
S 5	8 47 18	13°40'28	11♈39	20°25	18°54	7°33	16°16	20°26	27°45	10°59	20°51	5°48	4°35	17°53	n.a.	S 5
S 6	8 51 14	14°40'26	23°36	22°21	20° 8	8°19	16°26	20°23	27°42	11° 1	20°52	5°44	4°31	18° 0	n.a.	S 6
M 7	8 55 11	15°40'21	5♉40	24°18	21°22	9° 6	16°36	20°20	27°40	11° 3	20°53	5°42	4°28	18° 7	n.a.	M 7
T 8	8 59 7	16°40'14	17°57	26°14	22°36	9°52	16°47	20°16	27°37	11° 5	20°54	5°D41	4°25	18°13	n.a.	T 8
W 9	9 3 4	17°40'05	0♊32	28° 9	23°50	10°38	16°56	20°13	27°35	11° 6	20°55	5°42	4°22	18°20	n.a.	W 9
T 10	9 7 0	18°39'53	13°29	0♓ 4	25° 4	11°24	17° 6	20° 9	27°32	11° 8	20°57	5°43	4°19	18°27	n.a.	T 10
F 11	9 10 57	19°39'39	26°51	1°57	26°18	12°10	17°16	20° 6	27°30	11°10	20°58	5°44	4°16	18°33	n.a.	F 11
S 12	9 14 53	20°39'23	10♋42	3°48	27°32	12°57	17°26	20° 2	27°28	11°12	20°59	5°R45	4°12	18°40	n.a.	S 12
S 13	9 18 50	21°39'05	25° 0	5°38	28°46	13°43	17°35	19°59	27°25	11°14	21° 0	5°43	4° 9	18°47	n.a.	S 13
M14	9 22 47	22°38'44	9♌44	7°24	29°59	14°29	17°45	19°55	27°23	11°16	21° 2	5°39	4° 6	18°54	n.a.	M14
T 15	9 26 43	23°38'21	24°46	9° 8	1♒14	15°16	17°54	19°51	27°21	11°18	21° 3	5°34	4° 3	19° 0	n.a.	T 15
W16	9 30 40	24°37'56	9♍58	10°48	2°28	16° 2	18° 3	19°47	27°18	11°19	21° 4	5°27	4° 0	19° 7	n.a.	W16
T 17	9 34 36	25°37'29	25° 9	12°23	3°41	16°48	18°12	19°43	27°16	11°21	21° 5	5°19	3°57	19°14	n.a.	T 17
F 18	9 38 33	26°37'00	10♎ 8	13°55	4°55	17°34	18°21	19°39	27°14	11°23	21° 7	5°12	3°53	19°21	n.a.	F 18
S 19	9 42 29	27°36'28	24°49	15°21	6° 9	18°21	18°30	19°35	27°12	11°25	21° 8	5° 6	3°50	19°27	n.a.	S 19
S 20	9 46 26	28°35'55	9♏ 6	16°42	7°23	19° 7	18°38	19°31	27°10	11°26	21° 9	5° 2	3°47	19°34	n.a.	S 20
M21	9 50 22	29°35'21	22°56	17°57	8°37	19°53	18°47	19°27	27° 8	11°28	21°11	5° 0	3°44	19°41	n.a.	M21
T 22	9 54 19	0♓34'44	6♐21	19° 6	9°51	20°40	18°55	19°23	27° 6	11°30	21°12	5°D 0	3°41	19°47	n.a.	T 22
W23	9 58 15	1°34'06	19°23	20° 9	11° 5	21°26	19° 4	19°18	27° 4	11°31	21°13	5° 1	3°37	19°54	n.a.	W23
T 24	10 2 12	2°33'25	2♑ 6	21° 5	12°19	22°12	19°12	19°14	27° 2	11°33	21°15	5°R 1	3°34	20° 1	n.a.	T 24
F 25	10 6 9	3°32'43	14°34	21°53	13°33	22°59	19°20	19°10	27° 0	11°35	21°16	5° 1	3°31	20° 8	n.a.	F 25
S 26	10 10 5	4°31'59	26°49	22°35	14°47	23°45	19°28	19° 5	26°58	11°36	21°17	4°59	3°28	20°14	n.a.	S 26
S 27	10 14 2	5°31'13	8♒56	23° 9	16° 1	24°31	19°36	19° 1	26°56	11°38	21°19	4°54	3°25	20°21	n.a.	S 27
M28	10 17 58	6♓30'25	20♒56	23♓36	17♒15	25♉18	19♐43	18♍57	26♋54	11♉39	21♓20	4♋46	3♋22	20♓28	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 2	17s16	3s51	18s47	1s39	23s16	0s18	24s24	0s46	22s39	0n16	6n11	2n39	21n28	0n40	22s59	0n17	19s13	16s59	23n34	23n37	9s32		n.a.
W 2	17 45	13 33	4 29	18 8	1 34	23 10	0 20	24 23	0 47	22 40	0 16	6 12	2 39	21 29	0 40	22 59	0 17	19 12	16 59	23 34	23 38	9 29		n.a.
T 3	17 29	9 20	4 55	17 27	1 28	23 4	0 23	24 22	0 48	22 41	0 16	6 13	2 39	21 29	0 40	22 59	0 17	19 12	16 59	23 34	23 38	9 27		n.a.
F 4	17 12	4 47	5 9	16 45	1 21	22 57	0 25	24 20	0 48	22 43	0 16	6 15	2 39	21 30	0 40	22 59	0 17	19 11	16 58	23 35	23 38	9 24		n.a.
S 5	16 55	0 4	5 9	16 1	1 14	22 49	0 28	24 18	0 49	22 44	0 16	6 16	2 40	21 30	0 40	22 59	0 17	19 10	16 58	23 35	23 38	9 22		n.a.
S 6	16 37	4n41	4 55	15 15	1 6	22 41	0 30	24 16	0 50	22 45	0 16	6 18	2 40	21 31	0 40	22 58	0 17	19 10	16 58	23 35	23 38	9 20		n.a.
M 7	16 19	9 20	4 29	14 28	0 57	22 32	0 33	24 14	0 50	22 46	0 16	6 19	2 40	21 31	0 40	22 58	0 17	19 9	16 58	23 35	23 38	9 17		n.a.
T 8	16 1	13 42	3 50	13 40	0 48	22 22	0 35	24 11	0 51	22 47	0 16	6 21	2 40	21 32	0 40	22 58	0 17	19 8	16 58	23 35	23 38	9 15		n.a.
W 9	15 43	17 35	2 59	12 51	0 38	22 12	0 38	24 8	0 52	22 48	0 16	6 22	2 40	21 32	0 40	22 58	0 17	19 8	16 57	23 35	23 38	9 12		n.a.
T 10	15 24	20 44	1 58	12 1	0 28	22 1	0 40	24 5	0 52	22 49	0 16	6 24	2 41	21 33	0 40	22 58	0 17	19 7	16 57	23 35	23 38	9 10		n.a.
F 11	15 5	22 53	0 48	11 10	0 17	21 49	0 42	24 2	0 53	22 50	0 16	6 25	2 41	21 33	0 40	22 58	0 17	19 6	16 57	23 35	23 39	9 7		n.a.
S 12	14 46	23 43	0n27	10 18	0 5	21 37	0 45	23 58	0 54	22 51	0 15	6 27	2 41	21 34	0 40	22 57	0 17	19 6	16 57	23 35	23 39	9 5		n.a.
S 13	14 27	23 3	1 42	9 27	0n 7	21 24	0 47	23 54	0 54	22 52	0 15	6 29	2 41	21 34	0 40	22 57	0 17	19 5	16 57	23 35	23 39	9 2		n.a.
M14	14 7	20 47	2 53	8 36	0 19	21 11	0 49	23 50	0 55	22 53	0 15	6 30	2 41	21 35	0 40	22 57	0 17	19 4	16 56	23 35	23 39	9 0		n.a.
T 15	13 48	17 4	3 53	7 45	0 32	20 57	0 51	23 45	0 56	22 54	0 15	6 32	2 42	21 35	0 40	22 57	0 17	19 4	16 56	23 36	23 39	8 58		n.a.
W16	13 28	12 11	4 37	6 55	0 45	20 42	0 53	23 40	0 56	22 55	0 15	6 34	2 42	21 36	0 40	22 57	0 17	19 3	16 56	23 36	23 39	8 55		n.a.
T 17	13 7	6 34	5 2	6 6	0 58	20 26	0 55	23 35	0 57	22 56	0 15	6 36	2 42	21 36	0 40	22 57	0 17	19 2	16 56	23 36	23 39	8 53		n.a.
F 18	12 47	0 37	5 6	5 18	1 11	20 10	0 57	23 30	0 58	22 57	0 15	6 37	2 42	21 36	0 40	22 57	0 17	19 2	16 56	23 37	23 39	8 50		n.a.
S 19	12 26	5s15	4 49	4 32	1 24	19 54	0 59	23 24	0 58	22 58	0 15	6 39	2 42	21 37	0 40	22 56	0 17	19 1	16 56	23 37	23 39	8 48		n.a.
S 20	12 6	10 40	4 14	3 49	1 38	19 37	1 1	23 18	0 59	22 58	0 15	6 41	2 42	21 37	0 40	22 56	0 17	19 0	16 55	23 37	23 39	8 45		n.a.
M21	11 45	15 24	3 26	3 7	1 51	19 19	1 3	23 12	1 0	22 59	0 15	6 43	2 42	21 38	0 40	22 56	0 17	19 0	16 55	23 37	23 40	8 43		n.a.
T 22	11 24	19 12	2 28	2 28	2 3	19 1	1 4	23 6	1 0	23 0	0 15	6 44	2 43	21 38	0 40	22 56	0 17	18 59	16 55	23 37	23 40	8 40		n.a.
W23	11 2	21 54	1 23	1 52	2 15	18 42	1 6	22 59	1 1	23 1	0 15	6 46	2 43	21 38	0 40	22 56	0 17	18 58	16 55	23 37	23 40	8 38		n.a.
T 24	10 41	23 26	0 16	1 20	2 27	18 23	1 8	22 52	1 2	23 2	0 15	6 48	2 43	21 39	0 40	22 56	0 17	18 58	16 55	23 37	23 40	8 35		n.a.
F 25	10 19	23 45	0s51	0 50	2 38	18 3	1 9	22 45	1 2	23 2	0 14	6 50	2 43	21 39	0 40	22 56	0 17	18 57	16 55	23 37	23 40	8 33		n.a.
S 26	9 57	22 53	1 54	0 24	2 48	17 43	1 11	22 38	1 3	23 3	0 14	6 52	2 43	21 39	0 40	22 55	0 17	18 56	16 55	23 37	23 40	8 30		n.a.
S 27	9 36	20 58	2 51	0 2	2 58	17 22	1 12	22 30	1 3	23 4	0 14	6 53	2 43	21 40	0 40	22 55	0 17	18 56	16 55	23 37	23 40	8 28		n.a.
M28	9s13	18s 8	3s39	0n17	3n 6	17s 1	1s14	22s22	1s 4	23s 4	0n14	6n55	2n43	21n40	0n40	22s55	0n17	18s55	16s54	23n38	23n40	8s25		n.a.

Julian Day Number = 1670319.5, Delta T = 03h20m55s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'54, Lahiri = - 5°52'54 Julian Calendar 1 Feb. 140 BCE == Greg. Calendar 29 Jan. 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

MARCH 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 21 55	7♓29'34	2♓53	23♓56	18♒29	26♑ 4	19♐51	18°R52	26°R52	11♑41	21♓22	4°R36	3♋18	20♓34	n.a.	T 1
W 2	10 25 51	8°28'42	14°46	24° 8	19°43	26°50	19°58	18♍48	26♋50	11°42	21°23	4♋24	3°15	20°41	n.a.	W 2
T 3	10 29 48	9°27'47	26°38	24°R13	20°57	27°37	20° 5	18°43	26°49	11°44	21°24	4°11	3°12	20°48	n.a.	T 3
F 4	10 33 44	10°26'50	8♈30	24°11	22°11	28°23	20°12	18°39	26°47	11°45	21°26	3°59	3° 9	20°55	n.a.	F 4
S 5	10 37 41	11°25'51	20°24	24° 2	23°24	29° 9	20°19	18°34	26°45	11°46	21°27	3°48	3° 6	21° 1	n.a.	S 5
S 6	10 41 38	12°24'50	2♉22	23°46	24°38	29°56	20°26	18°30	26°44	11°48	21°29	3°39	3° 2	21° 8	n.a.	S 6
M 7	10 45 34	13°23'46	14°27	23°24	25°52	0♒42	20°32	18°25	26°42	11°49	21°30	3°33	2°59	21°15	n.a.	M 7
T 8	10 49 31	14°22'40	26°43	22°57	27° 6	1°28	20°39	18°21	26°41	11°50	21°31	3°29	2°56	21°21	n.a.	T 8
W 9	10 53 27	15°21'32	9♊15	22°25	28°20	2°15	20°45	18°16	26°39	11°52	21°33	3°28	2°53	21°28	n.a.	W 9
T 10	10 57 24	16°20'21	22° 5	21°49	29°34	3° 1	20°51	18°11	26°38	11°53	21°34	3°D27	2°50	21°35	n.a.	T 10
F 11	11 1 20	17°19'08	5♋20	21° 9	0♓48	3°47	20°57	18° 7	26°36	11°54	21°36	3°R28	2°47	21°42	n.a.	F 11
S 12	11 5 17	18°17'52	19° 2	20°27	2° 2	4°33	21° 3	18° 2	26°35	11°55	21°37	3°27	2°43	21°48	n.a.	S 12
S 13	11 9 13	19°16'35	3♌14	19°42	3°15	5°20	21° 9	17°58	26°34	11°56	21°38	3°24	2°40	21°55	n.a.	S 13
M14	11 13 10	20°15'14	17°53	18°57	4°29	6° 6	21°14	17°53	26°32	11°57	21°40	3°19	2°37	22° 2	n.a.	M14
T 15	11 17 6	21°13'52	2♍55	18°12	5°43	6°52	21°20	17°48	26°31	11°59	21°41	3°11	2°34	22° 9	n.a.	T 15
W16	11 21 3	22°12'27	18°12	17°27	6°57	7°38	21°25	17°44	26°30	12° 0	21°43	3° 1	2°31	22°15	n.a.	W16
T 17	11 25 0	23°11'00	3♎34	16°44	8°11	8°24	21°30	17°39	26°29	12° 1	21°44	2°50	2°28	22°22	n.a.	T 17
F 18	11 28 56	24° 9'32	18°47	16° 4	9°24	9°11	21°35	17°35	26°28	12° 2	21°46	2°40	2°24	22°29	n.a.	F 18
S 19	11 32 53	25° 8'01	3♏43	15°26	10°38	9°57	21°39	17°30	26°27	12° 3	21°47	2°31	2°21	22°35	n.a.	S 19
S 20	11 36 49	26° 6'29	18°12	14°52	11°52	10°43	21°44	17°26	26°26	12° 4	21°48	2°24	2°18	22°42	n.a.	S 20
M21	11 40 46	27° 4'55	2♐13	14°21	13° 6	11°29	21°48	17°21	26°25	12° 4	21°50	2°20	2°15	22°49	n.a.	M21
T 22	11 44 42	28° 3'19	15°45	13°55	14°20	12°15	21°52	17°17	26°24	12° 5	21°51	2°19	2°12	22°56	n.a.	T 22
W23	11 48 39	29° 1'42	28°49	13°34	15°33	13° 1	21°56	17°12	26°23	12° 6	21°53	2°19	2° 8	23° 2	n.a.	W23
T 24	11 52 35	0♈ 0'03	11♑30	13°17	16°47	13°47	22° 0	17° 8	26°23	12° 7	21°54	2°18	2° 5	23° 9	n.a.	T 24
F 25	11 56 32	0°58'22	23°53	13° 6	18° 1	14°33	22° 4	17° 3	26°22	12° 8	21°56	2°17	2° 2	23°16	n.a.	F 25
S 26	12 0 29	1°56'40	6♒ 3	12°59	19°15	15°19	22° 7	16°59	26°21	12° 9	21°57	2°14	1°59	23°22	n.a.	S 26
S 27	12 4 25	2°54'56	18° 3	12°D57	20°29	16° 5	22°11	16°55	26°21	12° 9	21°58	2° 8	1°56	23°29	n.a.	S 27
M28	12 8 22	3°53'10	29°57	13° 1	21°42	16°51	22°14	16°50	26°20	12°10	22° 0	2° 0	1°53	23°36	n.a.	M28
T 29	12 12 18	4°51'23	11♓49	13° 9	22°56	17°37	22°17	16°46	26°20	12°11	22° 1	1°48	1°49	23°43	n.a.	T 29
W30	12 16 15	5°49'34	23°40	13°22	24°10	18°23	22°19	16°42	26°19	12°11	22° 2	1°35	1°46	23°49	n.a.	W30
T 31	12 20 11	6♈47'43	5♈33	13♓39	25♓24	19♒ 9	22♐22	16♍38	26♋19	12♑12	22♓ 4	1♋21	1♋43	23♓56	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	8s51	14s34	4s18	0n31	3n14	16s39	1s15	22s14	1s 5	23s 5	0n14	6n57	2n43	21n41	0n40	22s55	0n17	18s55	16s54	23n38	23n40	8s23			n.a.
W 2	8 29	10 26	4 45	0 42	3 20	16 17	1 16	22 6	1 5	23 6	0 14	6 59	2 44	21 41	0 40	22 55	0 17	18 54	16 54	23 38	23 40	8 20			n.a.
T 3	8 7	5 55	4 59	0 48	3 25	15 54	1 18	21 57	1 6	23 6	0 14	7 1	2 44	21 41	0 40	22 55	0 17	18 53	16 54	23 39	23 40	8 18			n.a.
F 4	7 44	1 12	5 1	0 50	3 28	15 31	1 19	21 48	1 6	23 7	0 14	7 3	2 44	21 41	0 40	22 55	0 17	18 53	16 54	23 39	23 40	8 15			n.a.
S 5	7 21	3n35	4 50	0 49	3 30	15 7	1 20	21 39	1 7	23 7	0 14	7 5	2 44	21 42	0 40	22 55	0 17	18 52	16 54	23 39	23 41	8 13			n.a.
S 6	6 59	8 17	4 25	0 43	3 31	14 44	1 21	21 30	1 8	23 8	0 14	7 6	2 44	21 42	0 40	22 54	0 17	18 51	16 54	23 40	23 41	8 10			n.a.
M 7	6 36	12 43	3 49	0 33	3 29	14 19	1 22	21 20	1 8	23 9	0 14	7 8	2 44	21 42	0 40	22 54	0 17	18 51	16 54	23 40	23 41	8 8			n.a.
T 8	6 13	16 42	3 2	0 20	3 27	13 55	1 23	21 11	1 9	23 9	0 14	7 10	2 44	21 43	0 40	22 54	0 16	18 50	16 54	23 40	23 41	8 5			n.a.
W 9	5 50	20 2	2 5	0 3	3 22	13 29	1 23	21 1	1 9	23 10	0 13	7 12	2 44	21 43	0 40	22 54	0 16	18 50	16 54	23 40	23 41	8 3			n.a.
T 10	5 27	22 29	1 0	0s17	3 16	13 4	1 24	20 50	1 10	23 10	0 13	7 14	2 44	21 43	0 40	22 54	0 16	18 49	16 54	23 40	23 41	8 0			n.a.
F 11	5 4	23 46	0n10	0 40	3 9	12 38	1 25	20 40	1 11	23 11	0 13	7 16	2 44	21 43	0 40	22 54	0 16	18 48	16 54	23 40	23 41	7 58			n.a.
S 12	4 41	23 41	1 22	1 5	2 59	12 12	1 26	20 29	1 11	23 11	0 13	7 18	2 44	21 44	0 40	22 54	0 16	18 48	16 54	23 40	23 41	7 55			n.a.
S 13	4 17	22 6	2 31	1 32	2 49	11 46	1 26	20 19	1 12	23 12	0 13	7 19	2 44	21 44	0 40	22 54	0 16	18 47	16 54	23 40	23 41	7 52			n.a.
M14	3 54	19 0	3 32	2 1	2 37	11 19	1 27	20 8	1 12	23 12	0 13	7 21	2 44	21 44	0 40	22 54	0 16	18 47	16 54	23 40	23 41	7 50			n.a.
T 15	3 31	14 35	4 20	2 31	2 24	10 52	1 27	19 56	1 13	23 13	0 13	7 23	2 44	21 44	0 40	22 54	0 16	18 46	16 54	23 40	23 41	7 47			n.a.
W16	3 8	9 10	4 51	3 1	2 10	10 25	1 27	19 45	1 13	23 13	0 13	7 25	2 44	21 44	0 40	22 53	0 16	18 45	16 54	23 41	23 41	7 45			n.a.
T 17	2 44	3 9	5 1	3 32	1 55	9 57	1 28	19 33	1 14	23 13	0 13	7 27	2 44	21 45	0 40	22 53	0 16	18 45	16 54	23 41	23 41	7 42			n.a.
F 18	2 21	2s59	4 49	4 2	1 40	9 29	1 28	19 22	1 14	23 14	0 13	7 29	2 44	21 45	0 40	22 53	0 16	18 44	16 54	23 41	23 41	7 40			n.a.
S 19	1 57	8 51	4 18	4 31	1 24	9 1	1 28	19 9	1 15	23 14	0 13	7 30	2 44	21 45	0 40	22 53	0 16	18 44	16 54	23 41	23 41	7 37			n.a.
S 20	1 34	14 5	3 30	5 0	1 8	8 33	1 28	18 57	1 15	23 15	0 13	7 32	2 44	21 45	0 40	22 53	0 16	18 43	16 54	23 41	23 42	7 35			n.a.
M21	1 10	18 22	2 32	5 26	0 51	8 4	1 28	18 45	1 16	23 15	0 12	7 34	2 44	21 45	0 40	22 53	0 16	18 43	16 54	23 41	23 42	7 32			n.a.
T 22	0 47	21 30	1 26	5 52	0 35	7 36	1 28	18 32	1 16	23 15	0 12	7 36	2 44	21 45	0 39	22 53	0 16	18 42	16 54	23 41	23 42	7 29			n.a.
W23	0 23	23 24	0 18	6 15	0 19	7 7	1 28	18 20	1 17	23 16	0 12	7 37	2 44	21 46	0 39	22 53	0 16	18 41	16 54	23 42	23 42	7 27			n.a.
T 24	0n 0	24 1	0s48	6 36	0 3	6 37	1 28	18 7	1 17	23 16	0 12	7 39	2 44	21 46	0 39	22 53	0 16	18 41	16 54	23 42	23 42	7 24			n.a.
F 25	0 23	23 24	1 51	6 54	0s12	6 8	1 28	17 54	1 18	23 16	0 12	7 41	2 44	21 46	0 39	22 53	0 16	18 40	16 54	23 42	23 42	7 22			n.a.
S 26	0 47	21 41	2 48	7 11	0 27	5 39	1 28	17 40	1 18	23 16	0 12	7 43	2 44	21 46	0 39	22 53	0 16	18 40	16 54	23 42	23 42	7 19			n.a.
S 27	1 10	19 1	3 36	7 25	0 42	5 9	1 27	17 27	1 19	23 17	0 12	7 44	2 44	21 46	0 39	22 53	0 16	18 39	16 54	23 42	23 42	7 17			n.a.
M28	1 34	15 35	4 15	7 36	0 56	4 39	1 27	17 13	1 19	23 17	0 12	7 46	2 44	21 46	0 39	22 53	0 16	18 39	16 54	23 42	23 42	7 14			n.a.
T 29	1 57	11 32	4 42	7 45	1 9	4 9	1 26	16 59	1 20	23 17	0 12	7 47	2 44	21 46	0 39	22 52	0 16	18 38	16 54	23 42	23 42	7 11			n.a.
W30	2 20	7 4	4 57	7 51	1 21	3 39	1 26	16 46	1 20	23 18	0 12	7 49	2 44	21 46	0 39	22 52	0 16	18 38	16 54	23 42	23 42	7 9			n.a.
T 31	2n44	2s20	4s59	7s55	1s33	3s 9	1s25	16s31	1s21	23s18	0n12	7n51	2n44	21n46	0n39	22s52	0n16	18s37	16s54	23n42	23n42	7s 6			n.a.

Julian Day Number = 1670347.5, Delta T = 03h20m54s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'50, Lahiri = - 5°52'50 Julian Calendar 1 March 140 BCE == Greg. Calendar 26 Feb. 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

APRIL 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 24 8	7♈45'50	17♈28	14♓ 1	26♓37	19♒55	22♐24	16°R34	26°R19	12♑12	22♓ 5	1°R 7	1♋40	24♓ 3	n.a.	F 1
S 2	12 28 4	8°43'55	29°27	14°28	27°51	20°41	22°27	16♍29	26♋18	12°13	22° 7	0♋54	1°37	24°10	n.a.	S 2
S 3	12 32 1	9°41'59	11♉32	14°59	29° 5	21°27	22°29	16°25	26°18	12°13	22° 8	0°44	1°33	24°16	n.a.	S 3
M 4	12 35 57	10°40'00	23°44	15°33	0♈19	22°12	22°30	16°21	26°18	12°14	22° 9	0°36	1°30	24°23	n.a.	M 4
T 5	12 39 54	11°38'00	6♊ 6	16°12	1°32	22°58	22°32	16°17	26°18	12°14	22°11	0°32	1°27	24°30	n.a.	T 5
W 6	12 43 51	12°35'58	18°40	16°55	2°46	23°44	22°33	16°14	26°18	12°15	22°12	0°30	1°24	24°36	n.a.	W 6
T 7	12 47 47	13°33'54	1♋32	17°41	4° 0	24°30	22°35	16°10	26°D18	12°15	22°13	0°D29	1°21	24°43	n.a.	T 7
F 8	12 51 44	14°31'48	14°43	18°30	5°13	25°15	22°36	16° 6	26°18	12°15	22°15	0°R29	1°18	24°50	n.a.	F 8
S 9	12 55 40	15°29'41	28°18	19°23	6°27	26° 1	22°37	16° 2	26°18	12°16	22°16	0°29	1°14	24°57	n.a.	S 9
S 10	12 59 37	16°27'31	12♌19	20°19	7°41	26°47	22°37	15°59	26°18	12°16	22°17	0°27	1°11	25° 3	n.a.	S 10
M11	13 3 33	17°25'19	26°45	21°18	8°55	27°32	22°38	15°55	26°18	12°16	22°19	0°22	1° 8	25°10	n.a.	M11
T 12	13 7 30	18°23'06	11♍34	22°20	10° 8	28°18	22°38	15°52	26°18	12°16	22°20	0°15	1° 5	25°17	n.a.	T 12
W13	13 11 26	19°20'50	26°40	23°25	11°22	29° 3	22°R38	15°48	26°19	12°17	22°21	0° 6	1° 2	25°23	n.a.	W13
T 14	13 15 23	20°18'33	11♎54	24°33	12°36	29°48	22°38	15°45	26°19	12°17	22°23	29♊56	0°59	25°30	n.a.	T 14
F 15	13 19 20	21°16'15	27° 4	25°44	13°49	0♓34	22°38	15°41	26°20	12°17	22°24	29°47	0°55	25°37	n.a.	F 15
S 16	13 23 16	22°13'55	12♏ 1	26°57	15° 3	1°19	22°38	15°38	26°20	12°17	22°25	29°38	0°52	25°44	n.a.	S 16
S 17	13 27 13	23°11'34	26°35	28°13	16°17	2° 5	22°37	15°35	26°21	12°17	22°26	29°32	0°49	25°50	n.a.	S 17
M18	13 31 9	24° 9'12	10♐42	29°31	17°30	2°50	22°36	15°32	26°21	12°R17	22°28	29°29	0°46	25°57	n.a.	M18
T 19	13 35 6	25° 6'48	24°21	0♈52	18°44	3°35	22°35	15°29	26°22	12°17	22°29	29°D27	0°43	26° 4	n.a.	T 19
W20	13 39 2	26° 4'24	7♑31	2°15	19°58	4°20	22°34	15°26	26°22	12°17	22°30	29°27	0°39	26°11	n.a.	W20
T 21	13 42 59	27° 1'58	20°16	3°41	21°11	5° 6	22°33	15°23	26°23	12°17	22°31	29°28	0°36	26°17	n.a.	T 21
F 22	13 46 55	27°59'31	2♒42	5° 9	22°25	5°51	22°31	15°20	26°24	12°17	22°32	29°R28	0°33	26°24	n.a.	F 22
S 23	13 50 52	28°57'04	14°51	6°40	23°39	6°36	22°30	15°18	26°25	12°16	22°34	29°26	0°30	26°31	n.a.	S 23
S 24	13 54 49	29°54'35	26°51	8°13	24°52	7°21	22°28	15°15	26°26	12°16	22°35	29°23	0°27	26°37	n.a.	S 24
M25	13 58 45	0♉52'05	8♓44	9°48	26° 6	8° 6	22°26	15°12	26°27	12°16	22°36	29°17	0°24	26°44	n.a.	M25
T 26	14 2 42	1°49'35	20°35	11°25	27°20	8°51	22°23	15°10	26°28	12°16	22°37	29° 9	0°20	26°51	n.a.	T 26
W27	14 6 38	2°47'03	2♈27	13° 5	28°33	9°36	22°21	15° 8	26°29	12°15	22°38	29° 0	0°17	26°58	n.a.	W27
T 28	14 10 35	3°44'30	14°22	14°47	29°47	10°20	22°18	15° 5	26°30	12°15	22°39	28°49	0°14	27° 4	n.a.	T 28
F 29	14 14 31	4°41'56	26°23	16°32	1♉ 1	11° 5	22°15	15° 3	26°31	12°15	22°41	28°39	0°11	27°11	n.a.	F 29
S 30	14 18 28	5♉39'21	8♉31	18♈19	2♉14	11♓50	22♐12	15♍ 1	26♋32	12♑14	22♓42	28♊30	0♋ 8	27♓18	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n 7	2n31	4s48	7s57	1s44	2s39	1s25	16s17	1s21	23s18	0n11	7n52	2n44	21n46	0n39	22s52	0n16	18s37	16s54	23n42	23n42	7s 4		n.a.
S 2	3 30	7 18	4 24	7 56	1 54	2 9	1 24	16 3	1 22	23 18	0 11	7 54	2 44	21 46	0 39	22 52	0 16	18 36	16 54	23 43	23 42	7 1		n.a.
S 3	3 53	11 51	3 48	7 52	2 3	1 38	1 23	15 48	1 22	23 18	0 11	7 55	2 43	21 46	0 39	22 52	0 16	18 36	16 55	23 43	23 42	6 59		n.a.
M 4	4 16	16 0	3 1	7 47	2 12	1 8	1 22	15 34	1 22	23 19	0 11	7 57	2 43	21 46	0 39	22 52	0 16	18 36	16 55	23 43	23 42	6 56		n.a.
T 5	4 39	19 31	2 5	7 39	2 20	0 37	1 21	15 19	1 23	23 19	0 11	7 58	2 43	21 46	0 39	22 52	0 16	18 35	16 55	23 43	23 42	6 53		n.a.
W 6	5 2	22 11	1 2	7 29	2 27	0 7	1 20	15 4	1 23	23 19	0 11	8 0	2 43	21 46	0 39	22 52	0 16	18 35	16 55	23 43	23 42	6 51		n.a.
T 7	5 25	23 48	0n 6	7 16	2 33	0n24	1 19	14 49	1 24	23 19	0 11	8 1	2 43	21 46	0 39	22 52	0 16	18 34	16 55	23 43	23 42	6 48		n.a.
F 8	5 47	24 8	1 15	7 2	2 39	0 54	1 18	14 34	1 24	23 19	0 11	8 2	2 43	21 46	0 39	22 52	0 16	18 34	16 55	23 43	23 42	6 45		n.a.
S 9	6 10	23 3	2 22	6 45	2 44	1 25	1 17	14 19	1 24	23 20	0 11	8 4	2 43	21 46	0 39	22 52	0 16	18 33	16 55	23 43	23 42	6 43		n.a.
S 10	6 33	20 32	3 22	6 27	2 48	1 55	1 16	14 3	1 25	23 20	0 11	8 5	2 43	21 46	0 39	22 52	0 16	18 33	16 55	23 43	23 42	6 40		n.a.
M11	6 55	16 41	4 12	6 6	2 51	2 26	1 15	13 48	1 25	23 20	0 10	8 6	2 43	21 46	0 39	22 52	0 16	18 33	16 55	23 43	23 42	6 38		n.a.
T 12	7 17	11 42	4 46	5 44	2 54	2 56	1 13	13 32	1 25	23 20	0 10	8 8	2 42	21 46	0 39	22 52	0 16	18 32	16 56	23 43	23 42	6 35		n.a.
W13	7 39	5 56	5 1	5 20	2 56	3 26	1 12	13 16	1 26	23 20	0 10	8 9	2 42	21 46	0 39	22 52	0 16	18 32	16 56	23 43	23 42	6 32		n.a.
T 14	8 1	0s14	4 55	4 54	2 57	3 57	1 11	13 1	1 26	23 20	0 10	8 10	2 42	21 46	0 39	22 52	0 16	18 31	16 56	23 43	23 43	6 30		n.a.
F 15	8 23	6 22	4 29	4 26	2 58	4 27	1 9	12 45	1 26	23 20	0 10	8 11	2 42	21 46	0 39	22 52	0 16	18 31	16 56	23 43	23 43	6 27		n.a.
S 16	8 45	12 4	3 44	3 56	2 58	4 57	1 8	12 29	1 27	23 20	0 10	8 12	2 42	21 46	0 39	22 52	0 16	18 31	16 56	23 43	23 43	6 25		n.a.
S 17	9 7	16 56	2 45	3 25	2 57	5 27	1 6	12 12	1 27	23 20	0 10	8 14	2 42	21 45	0 39	22 52	0 16	18 30	16 56	23 43	23 43	6 22		n.a.
M18	9 28	20 41	1 38	2 53	2 56	5 57	1 5	11 56	1 27	23 21	0 10	8 15	2 42	21 45	0 39	22 52	0 16	18 30	16 57	23 43	23 43	6 19		n.a.
T 19	9 50	23 8	0 27	2 18	2 54	6 27	1 3	11 40	1 28	23 21	0 10	8 16	2 41	21 45	0 39	22 52	0 16	18 30	16 57	23 43	23 43	6 17		n.a.
W20	10 11	24 13	0s43	1 43	2 51	6 57	1 1	11 23	1 28	23 21	0 9	8 17	2 41	21 45	0 39	22 52	0 16	18 29	16 57	23 43	23 43	6 14		n.a.
T 21	10 32	23 57	1 49	1 5	2 48	7 26	1 0	11 7	1 28	23 21	0 9	8 18	2 41	21 45	0 39	22 52	0 16	18 29	16 57	23 43	23 43	6 11		n.a.
F 22	10 53	22 30	2 48	0 26	2 44	7 56	0 58	10 50	1 29	23 21	0 9	8 19	2 41	21 45	0 39	22 52	0 16	18 29	16 57	23 43	23 43	6 9		n.a.
S 23	11 13	20 1	3 38	0n14	2 40	8 25	0 56	10 34	1 29	23 21	0 9	8 19	2 41	21 44	0 39	22 52	0 16	18 28	16 58	23 43	23 43	6 6		n.a.
S 24	11 34	16 43	4 17	0 55	2 35	8 54	0 54	10 17	1 29	23 21	0 9	8 20	2 41	21 44	0 39	22 52	0 16	18 28	16 58	23 43	23 43	6 3		n.a.
M25	11 54	12 47	4 45	1 38	2 30	9 23	0 52	10 0	1 29	23 21	0 9	8 21	2 40	21 44	0 38	22 52	0 16	18 28	16 58	23 43	23 43	6 1		n.a.
T 26	12 15	8 23	5 1	2 22	2 24	9 51	0 50	9 44	1 30	23 21	0 9	8 22	2 40	21 44	0 38	22 52	0 16	18 28	16 58	23 43	23 43	5 58		n.a.
W27	12 35	3 39	5 4	3 7	2 17	10 20	0 48	9 27	1 30	23 21	0 9	8 23	2 40	21 44	0 38	22 52	0 16	18 27	16 58	23 42	23 43	5 55		n.a.
T 28	12 54	1n13	4 53	3 54	2 10	10 48	0 46	9 10	1 30	23 21	0 9	8 23	2 40	21 43	0 38	22 52	0 16	18 27	16 59	23 42	23 43	5 53		n.a.
F 29	13 14	6 6	4 30	4 41	2 2	11 16	0 44	8 53	1 30	23 21	0 8	8 24	2 40	21 43	0 38	22 52	0 16	18 27	16 59	23 42	23 43	5 50		n.a.
S 30	13n33	10n48	3s54	5n30	1s54	11n43	0s42	8s36	1s30	23s21	0n 8	8n25	2n39	21n43	0n38	22s52	0n16	18s27	16s59	23n42	23n43	5s47		n.a.

Julian Day Number = 1670378.5, Delta T = 03h20m53s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'46, Lahiri = - 5°52'46 Julian Calendar 1 Apr. 140 BCE == Greg. Calendar 29 March 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

MAY 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 22 24	6♉36'46	20♉46	20♈ 8	3♉28	12♓35	22°R 9	14°R59	26♋33	12°R14	22♓43	28°R22	0♋ 5	27♓25	n.a.	S 1
M 2	14 26 21	7°34'09	3♊11	21°59	4°41	13°19	22♐ 6	14♍57	26°35	12♑14	22°44	28♊17	0° 1	27°31	n.a.	M 2
T 3	14 30 18	8°31'31	15°46	23°52	5°55	14° 4	22° 2	14°55	26°36	12°13	22°45	28°14	29♊58	27°38	n.a.	T 3
W 4	14 34 14	9°28'52	28°33	25°48	7° 9	14°48	21°58	14°54	26°37	12°13	22°46	28°D14	29°55	27°45	n.a.	W 4
T 5	14 38 11	10°26'12	11♋34	27°46	8°22	15°33	21°55	14°52	26°39	12°12	22°47	28°14	29°52	27°51	n.a.	T 5
F 6	14 42 7	11°23'30	24°52	29°46	9°36	16°17	21°51	14°50	26°40	12°12	22°48	28°15	29°49	27°58	n.a.	F 6
S 7	14 46 4	12°20'48	8♌27	1♉48	10°50	17° 2	21°46	14°49	26°42	12°11	22°49	28°R16	29°45	28° 5	n.a.	S 7
S 8	14 50 0	13°18'04	22°22	3°51	12° 3	17°46	21°42	14°48	26°44	12°10	22°50	28°16	29°42	28°12	n.a.	S 8
M 9	14 53 57	14°15'20	6♍36	5°57	13°17	18°30	21°37	14°46	26°45	12°10	22°51	28°14	29°39	28°18	n.a.	M 9
T 10	14 57 53	15°12'34	21° 8	8° 4	14°31	19°14	21°33	14°45	26°47	12° 9	22°52	28°10	29°36	28°25	n.a.	T 10
W11	15 1 50	16° 9'47	5♎54	10°12	15°44	19°58	21°28	14°44	26°49	12° 8	22°53	28° 5	29°33	28°32	n.a.	W11
T 12	15 5 47	17° 6'59	20°46	12°22	16°58	20°42	21°23	14°43	26°50	12° 8	22°54	27°59	29°30	28°38	n.a.	T 12
F 13	15 9 43	18° 4'10	5♏38	14°32	18°12	21°26	21°18	14°42	26°52	12° 7	22°55	27°53	29°26	28°45	n.a.	F 13
S 14	15 13 40	19° 1'21	20°20	16°43	19°25	22°10	21°12	14°41	26°54	12° 6	22°55	27°49	29°23	28°52	n.a.	S 14
S 15	15 17 36	19°58'31	4♐45	18°55	20°39	22°54	21° 7	14°41	26°56	12° 5	22°56	27°45	29°20	28°59	n.a.	S 15
M16	15 21 33	20°55'41	18°48	21° 7	21°53	23°38	21° 1	14°40	26°58	12° 4	22°57	27°43	29°17	29° 5	n.a.	M16
T 17	15 25 29	21°52'51	2♑26	23°18	23° 6	24°21	20°56	14°40	27° 0	12° 3	22°58	27°D43	29°14	29°12	n.a.	T 17
W18	15 29 26	22°50'00	15°39	25°29	24°20	25° 5	20°50	14°39	27° 2	12° 3	22°59	27°44	29°11	29°19	n.a.	W18
T 19	15 33 23	23°47'08	28°29	27°40	25°34	25°49	20°44	14°39	27° 4	12° 2	23° 0	27°45	29° 7	29°26	n.a.	T 19
F 20	15 37 19	24°44'17	10♒57	29°49	26°47	26°32	20°38	14°39	27° 6	12° 1	23° 0	27°47	29° 4	29°32	n.a.	F 20
S 21	15 41 16	25°41'25	23°10	1♊58	28° 1	27°16	20°32	14°D39	27° 8	12° 0	23° 1	27°R48	29° 1	29°39	n.a.	S 21
S 22	15 45 12	26°38'34	5♓12	4° 5	29°15	27°59	20°25	14°39	27°11	11°59	23° 2	27°47	28°58	29°46	n.a.	S 22
M23	15 49 9	27°35'42	17° 6	6°10	0♊28	28°42	20°19	14°39	27°13	11°58	23° 3	27°46	28°55	29°52	n.a.	M23
T 24	15 53 5	28°32'50	28°58	8°14	1°42	29°26	20°12	14°39	27°15	11°57	23° 3	27°43	28°51	29°59	n.a.	T 24
W25	15 57 2	29°29'58	10♈52	10°17	2°56	0♈ 9	20° 6	14°39	27°18	11°56	23° 4	27°39	28°48	0♈ 6	n.a.	W25
T 26	16 0 58	0♊27'06	22°52	12°17	4° 9	0°52	19°59	14°40	27°20	11°54	23° 5	27°34	28°45	0°13	n.a.	T 26
F 27	16 4 55	1°24'14	4♉59	14°15	5°23	1°35	19°52	14°40	27°22	11°53	23° 5	27°30	28°42	0°19	n.a.	F 27
S 28	16 8 52	2°21'22	17°16	16°12	6°37	2°18	19°45	14°41	27°25	11°52	23° 6	27°26	28°39	0°26	n.a.	S 28
S 29	16 12 48	3°18'30	29°45	18° 6	7°50	3° 1	19°38	14°41	27°27	11°51	23° 7	27°23	28°36	0°33	n.a.	S 29
M30	16 16 45	4°15'37	12♊27	19°59	9° 4	3°43	19°31	14°42	27°30	11°50	23° 7	27°21	28°32	0°40	n.a.	M30
T 31	16 20 41	5♊12'45	25♊21	21♊49	10♊18	4♈26	19♐24	14♍43	27♋33	11♑49	23♓ 8	27°D20	28♊29	0♈46	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	13n53	15n 9	3s 7	6n19	1s46	12n11	0s40	8s18	1s31	23s20	0n 8	8n25	2n39	21n43	0n38	22s52	0n16	18s26	16s59	23n42	23n43	5s45			n.a.
M 2	14 12	18 54	2 10	7 9	1 37	12 38	0 38	8 1	1 31	23 20	0 8	8 26	2 39	21 42	0 38	22 52	0 16	18 26	17 0	23 42	23 43	5 42			n.a.
T 3	14 30	21 50	1 7	8 1	1 28	13 5	0 36	7 44	1 31	23 20	0 8	8 26	2 39	21 42	0 38	22 52	0 16	18 26	17 0	23 42	23 43	5 39			n.a.
W 4	14 49	23 44	0n 2	8 52	1 18	13 31	0 34	7 27	1 31	23 20	0 8	8 27	2 39	21 42	0 38	22 52	0 16	18 26	17 0	23 42	23 43	5 37			n.a.
T 5	15 7	24 23	1 11	9 44	1 8	13 57	0 32	7 10	1 31	23 20	0 8	8 27	2 38	21 41	0 38	22 52	0 16	18 26	17 0	23 42	23 43	5 34			n.a.
F 6	15 25	23 40	2 19	10 37	0 58	14 23	0 29	6 52	1 31	23 20	0 8	8 28	2 38	21 41	0 38	22 53	0 16	18 25	17 1	23 42	23 43	5 31			n.a.
S 7	15 43	21 34	3 20	11 29	0 47	14 49	0 27	6 35	1 32	23 20	0 7	8 28	2 38	21 41	0 38	22 53	0 16	18 25	17 1	23 42	23 43	5 29			n.a.
S 8	16 1	18 9	4 11	12 22	0 37	15 14	0 25	6 18	1 32	23 20	0 7	8 29	2 38	21 40	0 38	22 53	0 16	18 25	17 1	23 42	23 43	5 26			n.a.
M 9	16 18	13 38	4 47	13 15	0 26	15 39	0 23	6 0	1 32	23 20	0 7	8 29	2 38	21 40	0 38	22 53	0 16	18 25	17 1	23 42	23 43	5 23			n.a.
T 10	16 35	8 14	5 7	14 7	0 15	16 3	0 20	5 43	1 32	23 19	0 7	8 29	2 37	21 40	0 38	22 53	0 16	18 25	17 2	23 42	23 43	5 21			n.a.
W11	16 52	2 19	5 6	14 58	0 5	16 27	0 18	5 25	1 32	23 19	0 7	8 29	2 37	21 39	0 38	22 53	0 16	18 25	17 2	23 42	23 43	5 18			n.a.
T 12	17 8	3s48	4 45	15 49	0n 6	16 51	0 16	5 8	1 32	23 19	0 7	8 29	2 37	21 39	0 38	22 53	0 16	18 25	17 2	23 42	23 43	5 15			n.a.
F 13	17 24	9 42	4 5	16 39	0 17	17 14	0 13	4 51	1 32	23 19	0 7	8 30	2 37	21 39	0 38	22 53	0 16	18 24	17 2	23 42	23 43	5 13			n.a.
S 14	17 40	15 0	3 9	17 27	0 27	17 36	0 11	4 33	1 32	23 19	0 6	8 30	2 36	21 38	0 38	22 53	0 16	18 24	17 3	23 42	23 43	5 10			n.a.
S 15	17 56	19 20	2 2	18 14	0 37	17 59	0 9	4 16	1 32	23 18	0 6	8 30	2 36	21 38	0 38	22 53	0 16	18 24	17 3	23 42	23 43	5 7			n.a.
M16	18 12	22 26	0 48	19 0	0 47	18 20	0 6	3 58	1 32	23 18	0 6	8 30	2 36	21 37	0 38	22 53	0 16	18 24	17 3	23 42	23 43	5 5			n.a.
T 17	18 27	24 7	0s26	19 43	0 56	18 42	0 4	3 41	1 33	23 18	0 6	8 30	2 36	21 37	0 38	22 53	0 16	18 24	17 4	23 42	23 43	5 2			n.a.
W18	18 41	24 22	1 36	20 24	1 5	19 3	0 2	3 23	1 33	23 18	0 6	8 30	2 36	21 37	0 38	22 53	0 16	18 24	17 4	23 42	23 43	4 59			n.a.
T 19	18 56	23 18	2 40	21 3	1 13	19 23	0n 1	3 6	1 33	23 17	0 6	8 30	2 35	21 36	0 38	22 53	0 16	18 24	17 4	23 42	23 43	4 56			n.a.
F 20	19 10	21 6	3 34	21 39	1 21	19 43	0 3	2 48	1 33	23 17	0 6	8 29	2 35	21 36	0 38	22 54	0 16	18 24	17 5	23 42	23 43	4 54			n.a.
S 21	19 24	17 59	4 17	22 13	1 28	20 2	0 5	2 31	1 33	23 17	0 5	8 29	2 35	21 35	0 38	22 54	0 16	18 24	17 5	23 42	23 43	4 51			n.a.
S 22	19 38	14 11	4 49	22 44	1 34	20 21	0 8	2 13	1 33	23 16	0 5	8 29	2 35	21 35	0 38	22 54	0 16	18 24	17 5	23 42	23 42	4 48			n.a.
M23	19 51	9 51	5 7	23 13	1 40	20 39	0 10	1 56	1 33	23 16	0 5	8 29	2 34	21 34	0 38	22 54	0 16	18 24	17 5	23 42	23 42	4 46			n.a.
T 24	20 4	5 11	5 12	23 39	1 45	20 56	0 13	1 39	1 33	23 16	0 5	8 29	2 34	21 34	0 38	22 54	0 16	18 24	17 6	23 42	23 42	4 43			n.a.
W25	20 16	0 18	5 4	24 2	1 49	21 14	0 15	1 21	1 33	23 15	0 5	8 28	2 34	21 33	0 38	22 54	0 16	18 24	17 6	23 41	23 42	4 40			n.a.
T 26	20 29	4n37	4 43	24 23	1 53	21 30	0 17	1 4	1 33	23 15	0 5	8 28	2 34	21 33	0 38	22 54	0 16	18 24	17 6	23 41	23 42	4 37			n.a.
F 27	20 41	9 26	4 9	24 41	1 55	21 46	0 20	0 47	1 32	23 15	0 5	8 27	2 33	21 32	0 38	22 54	0 16	18 24	17 7	23 41	23 42	4 35			n.a.
S 28	20 52	13 57	3 22	24 56	1 58	22 1	0 22	0 29	1 32	23 14	0 4	8 27	2 33	21 32	0 38	22 54	0 16	18 24	17 7	23 41	23 42	4 32			n.a.
S 29	21 3	17 57	2 26	25 9	1 59	22 16	0 24	0 12	1 32	23 14	0 4	8 26	2 33	21 31	0 38	22 54	0 16	18 24	17 7	23 41	23 42	4 29			n.a.
M30	21 14	21 12	1 21	25 19	2 0	22 30	0 26	0n 5	1 32	23 13	0 4	8 26	2 33	21 31	0 38	22 55	0 16	18 24	17 8	23 41	23 42	4 27			n.a.
T 31	21n25	23n27	0s11	25n27	2n 0	22n43	0n29	0n22	1s32	23s13	0n 4	8n25	2n33	21n30	0n38	22s55	0n16	18s24	17s 8	23n41	23n42	4s24			n.a.

Julian Day Number = 1670408.5, Delta T = 03h20m52s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'42, Lahiri = - 5°52'41 Julian Calendar 1 May 140 BCE == Greg. Calendar 28 Apr. 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

JUNE 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 24 38	6♊ 9'53	8♋28	23♊38	11♊32	5♈ 9	19°R16	14♍44	27♋35	11°R47	23♓ 8	27♊21	28♊26	0♈53	n.a.	W 1
T 2	16 28 34	7° 7'00	21°49	25°24	12°45	5°51	19♐ 9	14°45	27°38	11♑46	23° 9	27°22	28°23	1° 0	n.a.	T 2
F 3	16 32 31	8° 4'08	5♌22	27° 8	13°59	6°34	19° 2	14°46	27°41	11°45	23° 9	27°23	28°20	1° 6	n.a.	F 3
S 4	16 36 27	9° 1'15	19° 8	28°50	15°13	7°16	18°54	14°48	27°43	11°44	23°10	27°24	28°16	1°13	n.a.	S 4
S 5	16 40 24	9°58'21	3♍ 7	0♋30	16°27	7°58	18°47	14°49	27°46	11°42	23°10	27°25	28°13	1°20	n.a.	S 5
M 6	16 44 21	10°55'28	17°17	2° 7	17°40	8°40	18°39	14°51	27°49	11°41	23°11	27°R25	28°10	1°27	n.a.	M 6
T 7	16 48 17	11°52'34	1♎35	3°43	18°54	9°22	18°31	14°52	27°52	11°40	23°11	27°24	28° 7	1°33	n.a.	T 7
W 8	16 52 14	12°49'41	16° 1	5°16	20° 8	10° 4	18°24	14°54	27°55	11°38	23°12	27°23	28° 4	1°40	n.a.	W 8
T 9	16 56 10	13°46'47	0♏28	6°48	21°21	10°46	18°16	14°56	27°57	11°37	23°12	27°21	28° 1	1°47	n.a.	T 9
F 10	17 0 7	14°43'53	14°53	8°17	22°35	11°28	18° 8	14°57	28° 0	11°36	23°12	27°20	27°57	1°54	n.a.	F 10
S 11	17 4 3	15°41'00	29° 9	9°44	23°49	12°10	18° 1	14°59	28° 3	11°34	23°13	27°19	27°54	2° 0	n.a.	S 11
S 12	17 8 0	16°38'07	13♐14	11° 8	25° 3	12°51	17°53	15° 1	28° 6	11°33	23°13	27°18	27°51	2° 7	n.a.	S 12
M13	17 11 56	17°35'14	27° 1	12°31	26°16	13°33	17°45	15° 4	28° 9	11°31	23°13	27°D18	27°48	2°14	n.a.	M13
T 14	17 15 53	18°32'22	10♑29	13°51	27°30	14°14	17°38	15° 6	28°13	11°30	23°14	27°18	27°45	2°20	n.a.	T 14
W15	17 19 50	19°29'30	23°37	15° 9	28°44	14°56	17°30	15° 8	28°16	11°28	23°14	27°18	27°42	2°27	n.a.	W15
T 16	17 23 46	20°26'39	6♒25	16°25	29°58	15°37	17°22	15°11	28°19	11°27	23°14	27°19	27°38	2°34	n.a.	T 16
F 17	17 27 43	21°23'48	18°55	17°38	1♋12	16°18	17°15	15°13	28°22	11°25	23°14	27°20	27°35	2°41	n.a.	F 17
S 18	17 31 39	22°20'59	1♓ 9	18°48	2°25	16°59	17° 7	15°16	28°25	11°24	23°14	27°20	27°32	2°47	n.a.	S 18
S 19	17 35 36	23°18'10	13°12	19°56	3°39	17°40	16°59	15°18	28°28	11°22	23°15	27°20	27°29	2°54	n.a.	S 19
M20	17 39 32	24°15'21	25° 8	21° 2	4°53	18°21	16°52	15°21	28°31	11°21	23°15	27°R20	27°26	3° 1	n.a.	M20
T 21	17 43 29	25°12'34	7♈ 2	22° 4	6° 7	19° 2	16°44	15°24	28°35	11°19	23°15	27°20	27°22	3° 7	n.a.	T 21
W22	17 47 26	26° 9'48	18°57	23° 4	7°20	19°42	16°36	15°27	28°38	11°18	23°15	27°20	27°19	3°14	n.a.	W22
T 23	17 51 22	27° 7'02	0♉59	24° 1	8°34	20°23	16°29	15°30	28°41	11°16	23°15	27°D20	27°16	3°21	n.a.	T 23
F 24	17 55 19	28° 4'18	13°10	24°55	9°48	21° 3	16°22	15°33	28°45	11°15	23°15	27°20	27°13	3°28	n.a.	F 24
S 25	17 59 15	29° 1'34	25°35	25°45	11° 2	21°43	16°14	15°36	28°48	11°13	23°15	27°20	27°10	3°34	n.a.	S 25
S 26	18 3 12	29°58'52	8♊16	26°33	12°16	22°24	16° 7	15°40	28°51	11°11	23°15	27°21	27° 7	3°41	n.a.	S 26
M27	18 7 8	0♋56'10	21°14	27°16	13°30	23° 4	16° 0	15°43	28°55	11°10	23°R15	27°R21	27° 3	3°48	n.a.	M27
T 28	18 11 5	1°53'30	4♋29	27°57	14°43	23°44	15°52	15°47	28°58	11° 8	23°15	27°21	27° 0	3°55	n.a.	T 28
W29	18 15 1	2°50'50	18° 1	28°33	15°57	24°24	15°45	15°50	29° 2	11° 7	23°15	27°20	26°57	4° 1	n.a.	W29
T 30	18 18 58	3♋48'11	1♌47	29♋ 5	17♋11	25♈ 3	15♐38	15♍54	29♋ 5	11♑ 5	23♓15	27♊20	26♊54	4♈ 8	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n35	24n27	1n 1	25n33	1n59	22n56	0n31	0n40	1s32	23s13	0n 4	8n25	2n32	21n30	0n38	22s55	0n16	18s24	17s 8	23n41	23n42	4s21		n.a.
T 2	21 45	24 4	2 11	25 36	1 58	23 8	0 33	0 57	1 32	23 12	0 4	8 24	2 32	21 29	0 38	22 55	0 16	18 24	17 9	23 41	23 42	4 18		n.a.
F 3	21 54	22 17	3 14	25 37	1 56	23 19	0 35	1 14	1 32	23 12	0 4	8 23	2 32	21 29	0 38	22 55	0 16	18 25	17 9	23 41	23 42	4 16		n.a.
S 4	22 3	19 10	4 8	25 36	1 54	23 30	0 38	1 31	1 32	23 11	0 3	8 23	2 32	21 28	0 37	22 55	0 16	18 25	17 9	23 41	23 42	4 13		n.a.
S 5	22 12	14 56	4 48	25 33	1 51	23 40	0 40	1 48	1 32	23 11	0 3	8 22	2 31	21 27	0 37	22 55	0 16	18 25	17 10	23 41	23 42	4 10		n.a.
M 6	22 20	9 50	5 11	25 29	1 47	23 50	0 42	2 5	1 31	23 10	0 3	8 21	2 31	21 27	0 37	22 55	0 16	18 25	17 10	23 41	23 42	4 7		n.a.
T 7	22 28	4 10	5 15	25 22	1 43	23 58	0 44	2 21	1 31	23 10	0 3	8 20	2 31	21 26	0 37	22 56	0 16	18 25	17 10	23 41	23 42	4 5		n.a.
W 8	22 36	1s46	4 59	25 14	1 38	24 6	0 46	2 38	1 31	23 9	0 3	8 19	2 31	21 26	0 37	22 56	0 16	18 25	17 11	23 41	23 42	4 2		n.a.
T 9	22 43	7 38	4 25	25 5	1 33	24 14	0 48	2 55	1 31	23 9	0 3	8 19	2 30	21 25	0 37	22 56	0 16	18 25	17 11	23 41	23 42	3 59		n.a.
F 10	22 50	13 5	3 33	24 54	1 27	24 20	0 50	3 12	1 31	23 8	0 2	8 18	2 30	21 24	0 37	22 56	0 16	18 26	17 12	23 41	23 42	3 56		n.a.
S 11	22 56	17 46	2 29	24 41	1 20	24 26	0 52	3 28	1 31	23 8	0 2	8 17	2 30	21 24	0 37	22 56	0 16	18 26	17 12	23 41	23 42	3 54		n.a.
S 12	23 2	21 22	1 17	24 27	1 13	24 31	0 54	3 45	1 30	23 7	0 2	8 16	2 30	21 23	0 37	22 56	0 16	18 26	17 12	23 41	23 42	3 51		n.a.
M13	23 8	23 39	0 2	24 13	1 6	24 35	0 56	4 1	1 30	23 6	0 2	8 15	2 29	21 23	0 37	22 56	0 16	18 26	17 13	23 41	23 42	3 48		n.a.
T 14	23 13	24 30	1s12	23 57	0 58	24 39	0 58	4 18	1 30	23 6	0 2	8 14	2 29	21 22	0 37	22 56	0 16	18 26	17 13	23 41	23 42	3 45		n.a.
W15	23 17	23 56	2 21	23 40	0 50	24 42	1 0	4 34	1 30	23 5	0 2	8 12	2 29	21 21	0 37	22 57	0 16	18 27	17 13	23 41	23 41	3 43		n.a.
T 16	23 22	22 6	3 20	23 22	0 41	24 44	1 1	4 50	1 30	23 5	0 1	8 11	2 29	21 21	0 37	22 57	0 16	18 27	17 14	23 41	23 41	3 40		n.a.
F 17	23 26	19 15	4 8	23 4	0 32	24 46	1 3	5 7	1 29	23 4	0 1	8 10	2 29	21 20	0 37	22 57	0 16	18 27	17 14	23 41	23 41	3 37		n.a.
S 18	23 29	15 36	4 44	22 44	0 22	24 46	1 5	5 23	1 29	23 4	0 1	8 9	2 28	21 19	0 37	22 57	0 16	18 27	17 14	23 41	23 41	3 34		n.a.
S 19	23 32	11 23	5 7	22 25	0 12	24 46	1 6	5 39	1 29	23 3	0 1	8 8	2 28	21 19	0 37	22 57	0 16	18 28	17 15	23 41	23 41	3 31		n.a.
M20	23 35	6 47	5 17	22 4	0 2	24 45	1 8	5 55	1 28	23 2	0 1	8 6	2 28	21 18	0 37	22 57	0 16	18 28	17 15	23 41	23 41	3 29		n.a.
T 21	23 37	1 57	5 12	21 44	0s 9	24 44	1 10	6 11	1 28	23 2	0 1	8 5	2 28	21 17	0 37	22 57	0 16	18 28	17 15	23 41	23 41	3 26		n.a.
W22	23 39	2n58	4 55	21 23	0 20	24 41	1 11	6 26	1 28	23 1	0 1	8 4	2 27	21 17	0 37	22 58	0 16	18 28	17 16	23 41	23 41	3 23		n.a.
T 23	23 41	7 49	4 24	21 2	0 32	24 38	1 13	6 42	1 28	23 1	0 0	8 2	2 27	21 16	0 37	22 58	0 16	18 29	17 16	23 41	23 41	3 20		n.a.
F 24	23 42	12 28	3 41	20 41	0 43	24 35	1 14	6 58	1 27	23 0	0 0	8 1	2 27	21 15	0 37	22 58	0 16	18 29	17 17	23 41	23 41	3 18		n.a.
S 25	23 42	16 40	2 47	20 20	0 55	24 30	1 15	7 13	1 27	22 59	0 0	7 59	2 27	21 14	0 37	22 58	0 16	18 29	17 17	23 41	23 41	3 15		n.a.
S 26	23 43	20 14	1 44	19 59	1 8	24 25	1 17	7 29	1 27	22 59	0s 0	7 58	2 27	21 14	0 37	22 58	0 16	18 30	17 17	23 41	23 41	3 12		n.a.
M27	23 43	22 51	0 34	19 38	1 20	24 19	1 18	7 44	1 26	22 58	0 0	7 56	2 26	21 13	0 37	22 58	0 16	18 30	17 18	23 41	23 41	3 9		n.a.
T 28	23 42	24 18	0n39	19 17	1 33	24 12	1 19	7 59	1 26	22 58	0 0	7 55	2 26	21 12	0 37	22 58	0 16	18 30	17 18	23 41	23 41	3 6		n.a.
W29	23 41	24 20	1 52	18 58	1 46	24 4	1 20	8 14	1 25	22 57	0 1	7 53	2 26	21 12	0 37	22 59	0 16	18 31	17 18	23 41	23 41	3 4		n.a.
T 30	23n39	22n54	2n59	18n38	1s59	23n56	1n21	8n29	1s25	22s56	0s 1	7n51	2n26	21n11	0n37	22s59	0n16	18s31	17s19	23n41	23n41	3s 1		n.a.

Julian Day Number = 1670439.5, Delta T = 03h20m51s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'38, Lahiri = - 5°52'37 Julian Calendar 1 June 140 BCE == Greg. Calendar 29 May 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

JULY 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 22 55	4♋45'33	15♌45	29♋33	18♋25	25♈43	15°R31	15♍57	29♋ 9	11°R 3	23°R15	27°R19	26♊51	4♈15	n.a.	F 1
S 2	18 26 51	5°42'55	29°53	29°57	19°39	26°22	15♐25	16° 1	29°12	11♑ 2	23♓15	27♊18	26°48	4°21	n.a.	S 2
S 3	18 30 48	6°40'18	14♍ 5	0♌16	20°53	27° 2	15°18	16° 5	29°16	11° 0	23°15	27°17	26°44	4°28	n.a.	S 3
M 4	18 34 44	7°37'42	28°20	0°31	22° 6	27°41	15°11	16° 9	29°19	10°59	23°15	27°17	26°41	4°35	n.a.	M 4
T 5	18 38 41	8°35'07	12♎35	0°41	23°20	28°20	15° 5	16°13	29°23	10°57	23°14	27°D17	26°38	4°42	n.a.	T 5
W 6	18 42 37	9°32'33	26°47	0°R45	24°34	28°59	14°58	16°17	29°26	10°55	23°14	27°17	26°35	4°48	n.a.	W 6
T 7	18 46 34	10°29'59	10♏53	0°45	25°48	29°38	14°52	16°21	29°30	10°54	23°14	27°18	26°32	4°55	n.a.	T 7
F 8	18 50 30	11°27'26	24°51	0°39	27° 2	0♉17	14°46	16°26	29°33	10°52	23°14	27°19	26°28	5° 2	n.a.	F 8
S 9	18 54 27	12°24'55	8♐41	0°27	28°16	0°55	14°40	16°30	29°37	10°50	23°14	27°20	26°25	5° 9	n.a.	S 9
S 10	18 58 24	13°22'24	22°18	0°11	29°29	1°34	14°34	16°34	29°41	10°49	23°13	27°R21	26°22	5°15	n.a.	S 10
M11	19 2 20	14°19'54	5♑43	29♋49	0♌43	2°12	14°28	16°39	29°44	10°47	23°13	27°21	26°19	5°22	n.a.	M11
T 12	19 6 17	15°17'26	18°54	29°22	1°57	2°50	14°22	16°44	29°48	10°45	23°13	27°20	26°16	5°29	n.a.	T 12
W13	19 10 13	16°14'59	1♒49	28°50	3°11	3°28	14°17	16°48	29°52	10°44	23°12	27°18	26°13	5°35	n.a.	W13
T 14	19 14 10	17°12'34	14°28	28°13	4°25	4° 6	14°11	16°53	29°55	10°42	23°12	27°15	26° 9	5°42	n.a.	T 14
F 15	19 18 6	18°10'09	26°54	27°32	5°39	4°44	14° 6	16°58	29°59	10°41	23°12	27°12	26° 6	5°49	n.a.	F 15
S 16	19 22 3	19° 7'47	9♓ 6	26°47	6°52	5°22	14° 1	17° 3	0♌ 3	10°39	23°11	27° 9	26° 3	5°56	n.a.	S 16
S 17	19 25 59	20° 5'26	21° 9	26° 0	8° 6	5°59	13°56	17° 7	0° 6	10°37	23°11	27° 6	26° 0	6° 2	n.a.	S 17
M18	19 29 56	21° 3'06	3♈ 4	25°10	9°20	6°36	13°51	17°12	0°10	10°36	23°10	27° 3	25°57	6° 9	n.a.	M18
T 19	19 33 53	22° 0'48	14°57	24°19	10°34	7°14	13°47	17°17	0°14	10°34	23°10	27° 2	25°54	6°16	n.a.	T 19
W20	19 37 49	22°58'32	26°51	23°27	11°48	7°51	13°42	17°23	0°17	10°33	23° 9	27°D 2	25°50	6°22	n.a.	W20
T 21	19 41 46	23°56'18	8♉53	22°36	13° 1	8°28	13°38	17°28	0°21	10°31	23° 9	27° 3	25°47	6°29	n.a.	T 21
F 22	19 45 42	24°54'05	21° 5	21°47	14°15	9° 4	13°34	17°33	0°25	10°29	23° 8	27° 4	25°44	6°36	n.a.	F 22
S 23	19 49 39	25°51'55	3♊32	21° 0	15°29	9°41	13°30	17°38	0°29	10°28	23° 8	27° 6	25°41	6°43	n.a.	S 23
S 24	19 53 35	26°49'46	16°20	20°17	16°43	10°17	13°26	17°44	0°32	10°26	23° 7	27° 7	25°38	6°49	n.a.	S 24
M25	19 57 32	27°47'39	29°28	19°39	17°57	10°54	13°23	17°49	0°36	10°25	23° 7	27°R 8	25°34	6°56	n.a.	M25
T 26	20 1 28	28°45'34	13♋ 0	19° 6	19°10	11°30	13°19	17°55	0°40	10°23	23° 6	27° 7	25°31	7° 3	n.a.	T 26
W27	20 5 25	29°43'31	26°54	18°39	20°24	12° 5	13°16	18° 0	0°44	10°22	23° 6	27° 4	25°28	7°10	n.a.	W27
T 28	20 9 22	0♌41'29	11♌ 6	18°19	21°38	12°41	13°13	18° 6	0°47	10°20	23° 5	27° 0	25°25	7°16	n.a.	T 28
F 29	20 13 18	1°39'29	25°33	18° 7	22°52	13°17	13°10	18°11	0°51	10°19	23° 4	26°55	25°22	7°23	n.a.	F 29
S 30	20 17 15	2°37'30	10♍ 7	18°D 2	24° 6	13°52	13° 7	18°17	0°55	10°17	23° 4	26°50	25°19	7°30	n.a.	S 30
S 31	20 21 11	3♌35'33	24♍43	18♋ 6	25♌19	14♉27	13♐ 5	18♍23	0♌59	10♑16	23♓ 3	26♊45	25♊15	7♈36	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n38	20n 3	3n57	18n20	2s12	23n47	1n22	8n44	1s25	22s56	0s 1	7n50	2n26	21n10	0n37	22s59	0n16	18s31	17s19	23n41	23n40	2s58		n.a.
S 2	23 35	16 1	4 41	18 2	2 25	23 38	1 23	8 59	1 24	22 55	0 1	7 48	2 25	21 9	0 37	22 59	0 16	18 32	17 19	23 41	23 40	2 55		n.a.
S 3	23 33	11 3	5 8	17 45	2 38	23 27	1 24	9 14	1 24	22 55	0 1	7 46	2 25	21 9	0 37	22 59	0 16	18 32	17 20	23 41	23 40	2 52		n.a.
M 4	23 29	5 29	5 16	17 29	2 51	23 16	1 25	9 28	1 23	22 54	0 1	7 45	2 25	21 8	0 37	22 59	0 16	18 32	17 20	23 41	23 40	2 50		n.a.
T 5	23 26	0s21	5 5	17 15	3 4	23 5	1 26	9 43	1 23	22 53	0 1	7 43	2 25	21 7	0 37	23 0	0 16	18 33	17 20	23 41	23 40	2 47		n.a.
W 6	23 22	6 10	4 35	17 2	3 16	22 52	1 26	9 57	1 23	22 53	0 2	7 41	2 25	21 6	0 37	23 0	0 16	18 33	17 21	23 41	23 40	2 44		n.a.
T 7	23 17	11 38	3 49	16 50	3 28	22 39	1 27	10 11	1 22	22 52	0 2	7 39	2 24	21 6	0 37	23 0	0 16	18 34	17 21	23 41	23 40	2 41		n.a.
F 8	23 13	16 27	2 50	16 40	3 40	22 25	1 28	10 25	1 22	22 52	0 2	7 37	2 24	21 5	0 37	23 0	0 16	18 34	17 21	23 41	23 40	2 38		n.a.
S 9	23 7	20 20	1 41	16 31	3 51	22 11	1 28	10 39	1 21	22 51	0 2	7 36	2 24	21 4	0 37	23 0	0 16	18 34	17 22	23 41	23 40	2 36		n.a.
S 10	23 2	23 1	0 28	16 25	4 1	21 56	1 29	10 53	1 21	22 51	0 2	7 34	2 24	21 3	0 37	23 0	0 16	18 35	17 22	23 41	23 40	2 33		n.a.
M11	22 56	24 21	0s46	16 20	4 11	21 40	1 29	11 7	1 20	22 50	0 2	7 32	2 24	21 2	0 37	23 0	0 16	18 35	17 23	23 41	23 40	2 30		n.a.
T 12	22 49	24 17	1 56	16 18	4 19	21 24	1 29	11 21	1 20	22 50	0 2	7 30	2 23	21 2	0 37	23 1	0 16	18 36	17 23	23 41	23 40	2 27		n.a.
W13	22 43	22 53	2 59	16 17	4 26	21 7	1 30	11 34	1 19	22 49	0 3	7 28	2 23	21 1	0 37	23 1	0 16	18 36	17 23	23 41	23 39	2 24		n.a.
T 14	22 35	20 21	3 51	16 19	4 32	20 50	1 30	11 48	1 19	22 49	0 3	7 26	2 23	21 0	0 37	23 1	0 16	18 37	17 24	23 41	23 39	2 22		n.a.
F 15	22 28	16 56	4 31	16 23	4 36	20 32	1 30	12 1	1 18	22 48	0 3	7 24	2 23	20 59	0 37	23 1	0 16	18 37	17 24	23 41	23 39	2 19		n.a.
S 16	22 20	12 51	4 59	16 28	4 39	20 13	1 30	12 14	1 18	22 48	0 3	7 22	2 23	20 59	0 37	23 1	0 16	18 37	17 24	23 41	23 39	2 16		n.a.
S 17	22 11	8 19	5 12	16 36	4 40	19 54	1 30	12 27	1 17	22 47	0 3	7 19	2 23	20 58	0 37	23 1	0 16	18 38	17 24	23 41	23 39	2 13		n.a.
M18	22 3	3 32	5 12	16 46	4 39	19 34	1 30	12 40	1 16	22 47	0 3	7 17	2 22	20 57	0 37	23 1	0 16	18 38	17 25	23 41	23 39	2 10		n.a.
T 19	21 53	1n22	4 59	16 57	4 37	19 13	1 30	12 53	1 16	22 46	0 4	7 15	2 22	20 56	0 37	23 2	0 16	18 39	17 25	23 41	23 39	2 8		n.a.
W20	21 44	6 14	4 33	17 11	4 32	18 53	1 29	13 6	1 15	22 46	0 4	7 13	2 22	20 55	0 37	23 2	0 16	18 39	17 25	23 41	23 39	2 5		n.a.
T 21	21 34	10 55	3 54	17 25	4 26	18 31	1 29	13 18	1 15	22 46	0 4	7 11	2 22	20 54	0 37	23 2	0 16	18 40	17 26	23 41	23 39	2 2		n.a.
F 22	21 24	15 16	3 5	17 41	4 18	18 9	1 29	13 31	1 14	22 45	0 4	7 9	2 22	20 54	0 37	23 2	0 16	18 40	17 26	23 41	23 39	1 59		n.a.
S 23	21 13	19 3	2 6	17 58	4 8	17 47	1 28	13 43	1 13	22 45	0 4	7 6	2 22	20 53	0 37	23 2	0 16	18 41	17 26	23 41	23 38	1 56		n.a.
S 24	21 2	22 2	0 59	18 16	3 56	17 24	1 28	13 55	1 13	22 44	0 4	7 4	2 21	20 52	0 37	23 2	0 16	18 41	17 27	23 41	23 38	1 53		n.a.
M25	20 50	23 55	0n13	18 35	3 43	17 0	1 27	14 7	1 12	22 44	0 4	7 2	2 21	20 51	0 37	23 2	0 16	18 42	17 27	23 41	23 38	1 51		n.a.
T 26	20 39	24 29	1 26	18 54	3 28	16 37	1 27	14 19	1 12	22 44	0 4	7 0	2 21	20 50	0 37	23 3	0 16	18 42	17 27	23 41	23 38	1 48		n.a.
W27	20 26	23 33	2 35	19 13	3 13	16 12	1 26	14 31	1 11	22 44	0 5	6 57	2 21	20 50	0 37	23 3	0 16	18 43	17 28	23 41	23 38	1 45		n.a.
T 28	20 14	21 6	3 37	19 32	2 57	15 48	1 25	14 43	1 10	22 43	0 5	6 55	2 21	20 49	0 37	23 3	0 16	18 43	17 28	23 41	23 38	1 42		n.a.
F 29	20 1	17 18	4 25	19 50	2 40	15 22	1 24	14 54	1 9	22 43	0 5	6 52	2 21	20 48	0 37	23 3	0 15	18 44	17 28	23 41	23 38	1 39		n.a.
S 30	19 48	12 26	4 57	20 8	2 22	14 57	1 23	15 5	1 9	22 43	0 5	6 50	2 21	20 47	0 37	23 3	0 15	18 44	17 28	23 40	23 38	1 36		n.a.
S 31	19n34	6n51	5n10	20n25	2s 4	14n31	1n22	15n17	1s 8	22s43	0s 5	6n48	2n20	20n46	0n37	23s 3	0n15	18s45	17s29	23n40	23n38	1s34		n.a.

Julian Day Number = 1670469.5, Delta T = 03h20m50s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'34, Lahiri = - 5°52'33 Julian Calendar 1 July 140 BCE == Greg. Calendar 28 June 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

AUGUST 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 25 8	4♌33'37	9♎14	18♋18	26♌33	15♉ 2	13°R 2	18♍29	1♌ 2	10°R14	23°R 2	26°R42	25♊12	7♈43	n.a.	M 1
T 2	20 29 4	5°31'43	23°35	18°38	27°47	15°37	13♐ 0	18°35	1° 6	10♑13	23♓ 2	26♊39	25° 9	7°50	n.a.	T 2
W 3	20 33 1	6°29'50	7♏43	19° 7	29° 1	16°12	12°58	18°41	1°10	10°12	23° 1	26°D39	25° 6	7°57	n.a.	W 3
T 4	20 36 57	7°27'59	21°38	19°43	0♍14	16°46	12°56	18°47	1°14	10°10	23° 0	26°39	25° 3	8° 3	n.a.	T 4
F 5	20 40 54	8°26'09	5♐18	20°28	1°28	17°20	12°55	18°53	1°17	10° 9	22°59	26°41	25° 0	8°10	n.a.	F 5
S 6	20 44 51	9°24'21	18°45	21°20	2°42	17°54	12°53	18°59	1°21	10° 7	22°59	26°42	24°56	8°17	n.a.	S 6
S 7	20 48 47	10°22'35	1♑58	22°20	3°56	18°28	12°52	19° 5	1°25	10° 6	22°58	26°R42	24°53	8°23	n.a.	S 7
M 8	20 52 44	11°20'50	15° 0	23°27	5° 9	19° 2	12°51	19°11	1°28	10° 5	22°57	26°40	24°50	8°30	n.a.	M 8
T 9	20 56 40	12°19'08	27°49	24°40	6°23	19°35	12°50	19°17	1°32	10° 3	22°56	26°37	24°47	8°37	n.a.	T 9
W10	21 0 37	13°17'27	10♒27	25°59	7°37	20° 9	12°50	19°23	1°36	10° 2	22°55	26°31	24°44	8°44	n.a.	W10
T 11	21 4 33	14°15'47	22°55	27°24	8°50	20°42	12°49	19°30	1°40	10° 1	22°55	26°23	24°40	8°50	n.a.	T 11
F 12	21 8 30	15°14'10	5♓11	28°54	10° 4	21°14	12°49	19°36	1°43	9°59	22°54	26°14	24°37	8°57	n.a.	F 12
S 13	21 12 26	16°12'35	17°18	0♌28	11°18	21°47	12°D49	19°42	1°47	9°58	22°53	26° 5	24°34	9° 4	n.a.	S 13
S 14	21 16 23	17°11'02	29°18	2° 5	12°31	22°19	12°49	19°49	1°51	9°57	22°52	25°56	24°31	9°11	n.a.	S 14
M15	21 20 20	18° 9'31	11♈11	3°46	13°45	22°51	12°49	19°55	1°54	9°56	22°51	25°49	24°28	9°17	n.a.	M15
T 16	21 24 16	19° 8'02	23° 2	5°30	14°58	23°23	12°50	20° 2	1°58	9°55	22°50	25°43	24°25	9°24	n.a.	T 16
W17	21 28 13	20° 6'36	4♉55	7°16	16°12	23°55	12°50	20° 8	2° 1	9°53	22°49	25°39	24°21	9°31	n.a.	W17
T 18	21 32 9	21° 5'12	16°53	9° 4	17°26	24°26	12°51	20°15	2° 5	9°52	22°48	25°D38	24°18	9°37	n.a.	T 18
F 19	21 36 6	22° 3'50	29° 2	10°53	18°39	24°57	12°52	20°22	2° 9	9°51	22°47	25°38	24°15	9°44	n.a.	F 19
S 20	21 40 2	23° 2'30	11♊27	12°44	19°53	25°28	12°54	20°28	2°12	9°50	22°46	25°39	24°12	9°51	n.a.	S 20
S 21	21 43 59	24° 1'13	24°14	14°35	21° 6	25°59	12°55	20°35	2°16	9°49	22°45	25°R40	24° 9	9°58	n.a.	S 21
M22	21 47 55	24°59'58	7♋25	16°26	22°20	26°29	12°57	20°42	2°19	9°48	22°44	25°39	24° 6	10° 4	n.a.	M22
T 23	21 51 52	25°58'46	21° 3	18°18	23°33	26°59	12°59	20°49	2°23	9°47	22°43	25°36	24° 2	10°11	n.a.	T 23
W24	21 55 49	26°57'36	5♌ 9	20° 9	24°47	27°29	13° 1	20°55	2°26	9°46	22°42	25°31	23°59	10°18	n.a.	W24
T 25	21 59 45	27°56'28	19°39	22° 1	26° 0	27°59	13° 3	21° 2	2°30	9°45	22°41	25°24	23°56	10°24	n.a.	T 25
F 26	22 3 42	28°55'22	4♍29	23°52	27°14	28°28	13° 5	21° 9	2°33	9°44	22°40	25°15	23°53	10°31	n.a.	F 26
S 27	22 7 38	29°54'18	19°29	25°42	28°27	28°57	13° 8	21°16	2°37	9°43	22°39	25° 5	23°50	10°38	n.a.	S 27
S 28	22 11 35	0♍53'16	4♎30	27°32	29°41	29°25	13°11	21°23	2°40	9°42	22°38	24°55	23°46	10°45	n.a.	S 28
M29	22 15 31	1°52'16	19°22	29°21	0♎54	29°54	13°14	21°30	2°44	9°42	22°37	24°47	23°43	10°51	n.a.	M29
T 30	22 19 28	2°51'18	3♏59	1♍10	2° 8	0♊22	13°17	21°37	2°47	9°41	22°36	24°42	23°40	10°58	n.a.	T 30
W31	22 23 24	3♍50'22	18♏16	2♍58	3♎21	0♊50	13♐20	21♍44	2♌50	9♑40	22♓35	24♊39	23♊37	11♈ 5	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	19n20	0n56	5n 3	20n41	1s46	14n 5	1n21	15n28	1s 7	22s43	0s 5	6n45	2n20	20n46	0n37	23s 3	0n15	18s45	17s29	23n40	23n37	1s31			n.a.
T 2	19 6	4s58	4 37	20 56	1 29	13 38	1 20	15 39	1 7	22 42	0 5	6 43	2 20	20 45	0 37	23 3	0 15	18 46	17 29	23 40	23 37	1 28			n.a.
W 3	18 52	10 33	3 54	21 10	1 11	13 11	1 19	15 49	1 6	22 42	0 6	6 40	2 20	20 44	0 37	23 4	0 15	18 46	17 30	23 40	23 37	1 25			n.a.
T 4	18 37	15 30	2 59	21 21	0 54	12 43	1 18	16 0	1 5	22 42	0 6	6 38	2 20	20 43	0 37	23 4	0 15	18 47	17 30	23 40	23 37	1 22			n.a.
F 5	18 22	19 34	1 53	21 31	0 37	12 16	1 16	16 10	1 4	22 42	0 6	6 35	2 20	20 42	0 37	23 4	0 15	18 48	17 30	23 40	23 37	1 19			n.a.
S 6	18 6	22 31	0 43	21 39	0 21	11 47	1 15	16 21	1 3	22 42	0 6	6 33	2 20	20 41	0 37	23 4	0 15	18 48	17 30	23 40	23 37	1 16			n.a.
S 7	17 50	24 10	0s28	21 45	0 6	11 19	1 13	16 31	1 3	22 42	0 6	6 30	2 20	20 41	0 37	23 4	0 15	18 49	17 31	23 40	23 37	1 14			n.a.
M 8	17 34	24 28	1 37	21 48	0n 9	10 50	1 12	16 41	1 2	22 42	0 6	6 28	2 19	20 40	0 37	23 4	0 15	18 49	17 31	23 40	23 37	1 11			n.a.
T 9	17 18	23 27	2 40	21 48	0 22	10 21	1 10	16 51	1 1	22 42	0 6	6 25	2 19	20 39	0 37	23 4	0 15	18 50	17 31	23 40	23 36	1 8			n.a.
W10	17 1	21 14	3 33	21 46	0 35	9 52	1 9	17 1	1 0	22 42	0 6	6 23	2 19	20 38	0 37	23 4	0 15	18 50	17 31	23 40	23 36	1 5			n.a.
T 11	16 44	18 3	4 16	21 41	0 47	9 23	1 7	17 11	0 59	22 42	0 7	6 20	2 19	20 37	0 37	23 5	0 15	18 51	17 32	23 40	23 36	1 2			n.a.
F 12	16 27	14 8	4 46	21 33	0 57	8 53	1 5	17 20	0 58	22 42	0 7	6 17	2 19	20 36	0 37	23 5	0 15	18 51	17 32	23 39	23 36	0 59			n.a.
S 13	16 9	9 42	5 2	21 22	1 7	8 23	1 3	17 30	0 58	22 42	0 7	6 15	2 19	20 36	0 37	23 5	0 15	18 52	17 32	23 39	23 36	0 56			n.a.
S 14	15 52	4 57	5 5	21 9	1 16	7 53	1 1	17 39	0 57	22 42	0 7	6 12	2 19	20 35	0 37	23 5	0 15	18 53	17 32	23 39	23 36	0 54			n.a.
M15	15 34	0 3	4 55	20 53	1 23	7 22	0 59	17 48	0 56	22 43	0 7	6 9	2 19	20 34	0 37	23 5	0 15	18 53	17 32	23 39	23 36	0 51			n.a.
T 16	15 15	4n51	4 32	20 34	1 30	6 52	0 57	17 57	0 55	22 43	0 7	6 7	2 19	20 33	0 37	23 5	0 15	18 54	17 33	23 39	23 36	0 48			n.a.
W17	14 57	9 35	3 58	20 12	1 35	6 21	0 55	18 6	0 54	22 43	0 7	6 4	2 18	20 32	0 37	23 5	0 15	18 54	17 33	23 38	23 35	0 45			n.a.
T 18	14 38	14 0	3 12	19 48	1 40	5 50	0 53	18 14	0 53	22 43	0 7	6 1	2 18	20 32	0 37	23 5	0 15	18 55	17 33	23 38	23 35	0 42			n.a.
F 19	14 19	17 56	2 18	19 22	1 44	5 19	0 51	18 23	0 52	22 43	0 8	5 59	2 18	20 31	0 37	23 5	0 15	18 55	17 33	23 38	23 35	0 39			n.a.
S 20	14 0	21 10	1 15	18 53	1 46	4 48	0 49	18 31	0 51	22 44	0 8	5 56	2 18	20 30	0 37	23 6	0 15	18 56	17 33	23 38	23 35	0 36			n.a.
S 21	13 40	23 27	0 8	18 22	1 48	4 16	0 46	18 40	0 50	22 44	0 8	5 53	2 18	20 29	0 37	23 6	0 15	18 56	17 34	23 38	23 35	0 33			n.a.
M22	13 20	24 32	1n 2	17 50	1 50	3 45	0 44	18 48	0 49	22 44	0 8	5 50	2 18	20 28	0 37	23 6	0 15	18 57	17 34	23 38	23 35	0 31			n.a.
T 23	13 0	24 12	2 11	17 16	1 50	3 13	0 42	18 56	0 48	22 45	0 8	5 48	2 18	20 28	0 37	23 6	0 15	18 58	17 34	23 38	23 35	0 28			n.a.
W24	12 40	22 20	3 14	16 40	1 50	2 42	0 39	19 4	0 47	22 45	0 8	5 45	2 18	20 27	0 37	23 6	0 15	18 58	17 34	23 38	23 34	0 25			n.a.
T 25	12 20	18 59	4 6	16 3	1 49	2 10	0 37	19 12	0 46	22 46	0 8	5 42	2 18	20 26	0 37	23 6	0 15	18 59	17 34	23 38	23 34	0 22			n.a.
F 26	11 59	14 22	4 43	15 25	1 48	1 38	0 34	19 19	0 45	22 46	0 8	5 39	2 18	20 25	0 37	23 6	0 15	18 59	17 34	23 38	23 34	0 19			n.a.
S 27	11 38	8 49	5 1	14 45	1 46	1 6	0 32	19 27	0 44	22 46	0 8	5 36	2 18	20 25	0 37	23 6	0 15	19 0	17 35	23 37	23 34	0 16			n.a.
S 28	11 17	2 45	4 59	14 5	1 43	0 34	0 29	19 34	0 42	22 47	0 8	5 34	2 18	20 24	0 38	23 6	0 15	19 0	17 35	23 37	23 34	0 13			n.a.
M29	10 56	3s25	4 36	13 24	1 40	0 2	0 26	19 41	0 41	22 47	0 9	5 31	2 18	20 23	0 38	23 6	0 15	19 1	17 35	23 37	23 34	0 10			n.a.
T 30	10 34	9 18	3 55	12 42	1 37	0s30	0 24	19 48	0 40	22 48	0 9	5 28	2 18	20 22	0 38	23 6	0 15	19 1	17 35	23 36	23 34	0 8			n.a.
W31	10n13	14s34	3n 0	11n59	1n33	1s 2	0n21	19n55	0s39	22s48	0s 9	5n25	2n18	20n21	0n38	23s 6	0n15	19s 2	17s35	23n36	23n33	0s 5			n.a.

Julian Day Number = 1670500.5, Delta T = 03h20m49s
Ecliptic obliquity = 23°42'44, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'29, Lahiri = - 5°52'29 Julian Calendar 1 Aug. 140 BCE == Greg. Calendar 29 July 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

SEPTEMBER 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 27 21	4♍49'28	2♐10	4♍45	4♎34	1♊17	13♐24	21♍51	2♌54	9°R39	22°R34	24°D38	23♊34	11♈11	n.a.	T 1
F 2	22 31 17	5°48'35	15°44	6°31	5°48	1°44	13°27	21°58	2°57	9♑38	22♓33	24♊38	23°31	11°18	n.a.	F 2
S 3	22 35 14	6°47'45	28°58	8°17	7° 1	2°11	13°31	22° 5	3° 0	9°38	22°32	24°R38	23°27	11°25	n.a.	S 3
S 4	22 39 11	7°46'56	11♑55	10° 1	8°14	2°37	13°35	22°12	3° 3	9°37	22°30	24°37	23°24	11°32	n.a.	S 4
M 5	22 43 7	8°46'10	24°38	11°45	9°28	3° 3	13°40	22°19	3° 7	9°36	22°29	24°34	23°21	11°38	n.a.	M 5
T 6	22 47 4	9°45'25	7♒10	13°28	10°41	3°29	13°44	22°26	3°10	9°36	22°28	24°27	23°18	11°45	n.a.	T 6
W 7	22 51 0	10°44'42	19°32	15°10	11°54	3°54	13°49	22°33	3°13	9°35	22°27	24°18	23°15	11°52	n.a.	W 7
T 8	22 54 57	11°44'01	1♓46	16°51	13° 7	4°19	13°54	22°40	3°16	9°35	22°26	24° 6	23°11	11°58	n.a.	T 8
F 9	22 58 53	12°43'22	13°53	18°32	14°21	4°44	13°58	22°47	3°19	9°34	22°25	23°53	23° 8	12° 5	n.a.	F 9
S 10	23 2 50	13°42'46	25°53	20°12	15°34	5° 8	14° 4	22°55	3°22	9°34	22°24	23°39	23° 5	12°12	n.a.	S 10
S 11	23 6 46	14°42'11	7♈48	21°51	16°47	5°32	14° 9	23° 2	3°25	9°33	22°23	23°25	23° 2	12°19	n.a.	S 11
M12	23 10 43	15°41'39	19°40	23°29	18° 0	5°55	14°14	23° 9	3°28	9°33	22°21	23°13	22°59	12°25	n.a.	M12
T 13	23 14 40	16°41'09	1♉30	25° 6	19°13	6°18	14°20	23°16	3°31	9°32	22°20	23° 4	22°56	12°32	n.a.	T 13
W14	23 18 36	17°40'41	13°21	26°43	20°26	6°41	14°26	23°23	3°34	9°32	22°19	22°57	22°52	12°39	n.a.	W14
T 15	23 22 33	18°40'16	25°18	28°19	21°39	7° 3	14°32	23°30	3°37	9°32	22°18	22°53	22°49	12°45	n.a.	T 15
F 16	23 26 29	19°39'53	7♊25	29°55	22°52	7°25	14°38	23°38	3°40	9°31	22°17	22°51	22°46	12°52	n.a.	F 16
S 17	23 30 26	20°39'33	19°46	1♎30	24° 6	7°46	14°44	23°45	3°43	9°31	22°16	22°51	22°43	12°59	n.a.	S 17
S 18	23 34 22	21°39'15	2♋27	3° 4	25°19	8° 7	14°51	23°52	3°46	9°31	22°14	22°51	22°40	13° 6	n.a.	S 18
M19	23 38 19	22°38'59	15°32	4°37	26°31	8°27	14°57	23°59	3°49	9°31	22°13	22°50	22°37	13°12	n.a.	M19
T 20	23 42 15	23°38'46	29° 7	6°10	27°44	8°47	15° 4	24° 7	3°51	9°30	22°12	22°46	22°33	13°19	n.a.	T 20
W21	23 46 12	24°38'35	13♌11	7°43	28°57	9° 7	15°11	24°14	3°54	9°30	22°11	22°41	22°30	13°26	n.a.	W21
T 22	23 50 8	25°38'27	27°45	9°14	0♏10	9°26	15°18	24°21	3°57	9°30	22°10	22°32	22°27	13°32	n.a.	T 22
F 23	23 54 5	26°38'20	12♍42	10°45	1°23	9°44	15°25	24°28	3°59	9°30	22° 9	22°21	22°24	13°39	n.a.	F 23
S 24	23 58 2	27°38'16	27°56	12°16	2°36	10° 2	15°32	24°35	4° 2	9°30	22° 8	22°10	22°21	13°46	n.a.	S 24
S 25	0 1 58	28°38'13	13♎14	13°46	3°49	10°19	15°40	24°43	4° 5	9°D30	22° 6	21°59	22°17	13°53	n.a.	S 25
M26	0 5 55	29°38'13	28°26	15°15	5° 2	10°36	15°48	24°50	4° 7	9°30	22° 5	21°49	22°14	13°59	n.a.	M26
T 27	0 9 51	0♎38'15	13♏21	16°44	6°14	10°52	15°55	24°57	4°10	9°30	22° 4	21°42	22°11	14° 6	n.a.	T 27
W28	0 13 48	1°38'18	27°53	18°12	7°27	11° 8	16° 3	25° 4	4°12	9°30	22° 3	21°38	22° 8	14°13	n.a.	W28
T 29	0 17 44	2°38'23	11♐58	19°40	8°40	11°23	16°11	25°11	4°14	9°30	22° 2	21°37	22° 5	14°19	n.a.	T 29
F 30	0 21 41	3♎38'30	25♐36	21♎ 7	9♏53	11♊37	16♐20	25♍19	4♌17	9♑31	22♓ 1	21°D36	22♊ 2	14♈26	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n51	18s56	1n56	11n16	1n29	1s34	0n18	20n 2	0s38	22s49	0s 9	5n22	2n18	20n21	0n38	23s 7	0n15	19s 2	17s35	23n36	23n33	0s 2		n.a.
F 2	9 29	22 9	0 47	10 32	1 25	2 6	0 15	20 9	0 37	22 49	0 9	5 19	2 17	20 20	0 38	23 7	0 15	19 3	17 35	23 36	23 33	0n 1		n.a.
S 3	9 7	24 5	0s23	9 48	1 20	2 38	0 13	20 15	0 35	22 50	0 9	5 17	2 17	20 19	0 38	23 7	0 15	19 4	17 35	23 36	23 33	0 4		n.a.
S 4	8 45	24 40	1 30	9 3	1 15	3 9	0 10	20 22	0 34	22 51	0 9	5 14	2 17	20 18	0 38	23 7	0 15	19 4	17 35	23 36	23 33	0 7		n.a.
M 5	8 22	23 56	2 32	8 18	1 10	3 41	0 7	20 28	0 33	22 51	0 9	5 11	2 17	20 18	0 38	23 7	0 15	19 5	17 36	23 36	23 33	0 10		n.a.
T 6	8 0	21 59	3 25	7 34	1 4	4 13	0 4	20 34	0 32	22 52	0 9	5 8	2 17	20 17	0 38	23 7	0 15	19 5	17 36	23 36	23 32	0 13		n.a.
W 7	7 37	19 2	4 7	6 48	0 59	4 45	0 1	20 40	0 30	22 53	0 10	5 5	2 17	20 16	0 38	23 7	0 15	19 6	17 36	23 35	23 32	0 16		n.a.
T 8	7 14	15 17	4 38	6 3	0 53	5 16	0s 2	20 46	0 29	22 53	0 10	5 2	2 17	20 16	0 38	23 7	0 15	19 6	17 36	23 35	23 32	0 18		n.a.
F 9	6 52	10 56	4 55	5 18	0 47	5 48	0 5	20 52	0 28	22 54	0 10	4 59	2 17	20 15	0 38	23 7	0 15	19 7	17 36	23 34	23 32	0 21		n.a.
S 10	6 29	6 13	4 59	4 33	0 40	6 19	0 8	20 58	0 26	22 55	0 10	4 57	2 17	20 14	0 38	23 7	0 15	19 7	17 36	23 33	23 32	0 24		n.a.
S 11	6 5	1 19	4 50	3 47	0 34	6 50	0 11	21 4	0 25	22 55	0 10	4 54	2 17	20 13	0 38	23 7	0 15	19 8	17 36	23 33	23 32	0 27		n.a.
M12	5 42	3n38	4 29	3 2	0 28	7 22	0 14	21 9	0 23	22 56	0 10	4 51	2 17	20 13	0 38	23 7	0 15	19 8	17 36	23 32	23 31	0 30		n.a.
T 13	5 19	8 27	3 56	2 17	0 21	7 53	0 17	21 15	0 22	22 57	0 10	4 48	2 17	20 12	0 38	23 7	0 15	19 9	17 36	23 32	23 31	0 33		n.a.
W14	4 55	12 58	3 12	1 32	0 14	8 23	0 20	21 20	0 21	22 58	0 10	4 45	2 17	20 11	0 38	23 7	0 15	19 9	17 36	23 31	23 31	0 36		n.a.
T 15	4 32	17 3	2 20	0 47	0 8	8 54	0 24	21 25	0 19	22 58	0 10	4 42	2 17	20 11	0 38	23 7	0 15	19 10	17 36	23 31	23 31	0 39		n.a.
F 16	4 8	20 28	1 21	0 3	0 1	9 24	0 27	21 30	0 18	22 59	0 10	4 39	2 17	20 10	0 38	23 7	0 15	19 10	17 36	23 31	23 31	0 42		n.a.
S 17	3 45	23 2	0 16	0s41	0s 6	9 55	0 30	21 35	0 16	23 0	0 10	4 36	2 17	20 9	0 38	23 7	0 15	19 11	17 36	23 31	23 31	0 45		n.a.
S 18	3 21	24 32	0n51	1 26	0 13	10 25	0 33	21 40	0 15	23 1	0 11	4 33	2 17	20 9	0 38	23 8	0 15	19 11	17 36	23 31	23 30	0 47		n.a.
M19	2 57	24 44	1 57	2 9	0 20	10 54	0 36	21 45	0 13	23 2	0 11	4 31	2 17	20 8	0 38	23 8	0 15	19 12	17 36	23 31	23 30	0 50		n.a.
T 20	2 33	23 29	2 59	2 53	0 26	11 24	0 39	21 50	0 11	23 3	0 11	4 28	2 17	20 8	0 38	23 8	0 14	19 12	17 36	23 31	23 30	0 53		n.a.
W21	2 9	20 45	3 52	3 36	0 33	11 53	0 42	21 54	0 10	23 3	0 11	4 25	2 17	20 7	0 38	23 8	0 14	19 12	17 36	23 30	23 30	0 56		n.a.
T 22	1 45	16 39	4 33	4 19	0 40	12 22	0 45	21 59	0 8	23 4	0 11	4 22	2 17	20 6	0 38	23 8	0 14	19 13	17 36	23 30	23 30	0 59		n.a.
F 23	1 21	11 25	4 56	5 1	0 47	12 51	0 49	22 3	0 7	23 5	0 11	4 19	2 17	20 6	0 38	23 8	0 14	19 13	17 36	23 29	23 29	1 2		n.a.
S 24	0 57	5 23	4 59	5 43	0 54	13 19	0 52	22 8	0 5	23 6	0 11	4 16	2 17	20 5	0 38	23 8	0 14	19 14	17 36	23 29	23 29	1 5		n.a.
S 25	0 33	0s59	4 40	6 25	1 0	13 47	0 55	22 12	0 3	23 7	0 11	4 13	2 17	20 5	0 38	23 8	0 14	19 14	17 36	23 28	23 29	1 8		n.a.
M26	0 9	7 17	4 2	7 6	1 7	14 15	0 58	22 16	0 1	23 8	0 11	4 10	2 17	20 4	0 38	23 8	0 14	19 15	17 36	23 27	23 29	1 11		n.a.
T 27	0s15	13 3	3 7	7 47	1 13	14 43	1 1	22 20	0n 0	23 9	0 11	4 8	2 17	20 3	0 38	23 8	0 14	19 15	17 36	23 27	23 29	1 14		n.a.
W28	0 40	17 56	2 2	8 27	1 20	15 10	1 4	22 24	0 2	23 10	0 12	4 5	2 17	20 3	0 38	23 8	0 14	19 15	17 36	23 27	23 29	1 17		n.a.
T 29	1 4	21 38	0 51	9 6	1 26	15 37	1 7	22 28	0 4	23 11	0 12	4 2	2 18	20 2	0 38	23 8	0 14	19 16	17 36	23 27	23 28	1 19		n.a.
F 30	1s28	23s59	0s21	9s45	1s32	16s 3	1s10	22n32	0n 6	23s12	0s12	3n59	2n18	20n 2	0n38	23s 8	0n14	19s16	17s36	23n27	23n28	1n22		n.a.

Julian Day Number = 1670531.5, Delta T = 03h20m48s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'25, Lahiri = - 5°52'25 Julian Calendar 1 Sept. 140 BCE == Greg. Calendar 29 Aug. 140 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

OCTOBER 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 25 37	4♎38'38	8♉49	22♎33	11♏ 5	11♊51	16♐28	25♍26	4♌19	9♉31	22°R 0	21°R36	21♊58	14♈33	n.a.	S 1
S 2	0 29 34	5°38'48	21°41	23°58	12°18	12° 5	16°36	25°33	4°21	9°31	21♓58	21♊35	21°55	14°40	n.a.	S 2
M 3	0 33 31	6°39'00	4♒15	25°23	13°30	12°17	16°45	25°40	4°23	9°31	21°57	21°32	21°52	14°46	n.a.	M 3
T 4	0 37 27	7°39'13	16°36	26°47	14°43	12°29	16°54	25°47	4°26	9°32	21°56	21°27	21°49	14°53	n.a.	T 4
W 5	0 41 24	8°39'28	28°47	28°10	15°55	12°41	17° 3	25°54	4°28	9°32	21°55	21°18	21°46	15° 0	n.a.	W 5
T 6	0 45 20	9°39'45	10♓51	29°33	17° 8	12°52	17°12	26° 1	4°30	9°32	21°54	21° 7	21°43	15° 6	n.a.	T 6
F 7	0 49 17	10°40'03	22°49	0♏54	18°20	13° 2	17°21	26° 9	4°32	9°33	21°53	20°54	21°39	15°13	n.a.	F 7
S 8	0 53 13	11°40'23	4♈44	2°14	19°33	13°11	17°30	26°16	4°34	9°33	21°52	20°40	21°36	15°20	n.a.	S 8
S 9	0 57 10	12°40'45	16°36	3°34	20°45	13°20	17°40	26°23	4°36	9°34	21°51	20°27	21°33	15°27	n.a.	S 9
M10	1 1 6	13°41'09	28°27	4°52	21°57	13°28	17°49	26°30	4°38	9°34	21°50	20°15	21°30	15°33	n.a.	M10
T 11	1 5 3	14°41'34	10♉20	6° 8	23° 9	13°35	17°59	26°37	4°39	9°35	21°49	20° 6	21°27	15°40	n.a.	T 11
W12	1 9 0	15°42'01	22°14	7°23	24°22	13°42	18° 9	26°44	4°41	9°35	21°48	20° 0	21°23	15°47	n.a.	W12
T 13	1 12 56	16°42'31	4♊14	8°37	25°34	13°48	18°18	26°51	4°43	9°36	21°47	19°56	21°20	15°53	n.a.	T 13
F 14	1 16 53	17°43'02	16°23	9°48	26°46	13°53	18°28	26°58	4°45	9°36	21°46	19°D54	21°17	16° 0	n.a.	F 14
S 15	1 20 49	18°43'35	28°44	10°57	27°58	13°57	18°39	27° 4	4°46	9°37	21°44	19°55	21°14	16° 7	n.a.	S 15
S 16	1 24 46	19°44'10	11♋23	12° 4	29°10	14° 1	18°49	27°11	4°48	9°38	21°43	19°55	21°11	16°14	n.a.	S 16
M17	1 28 42	20°44'47	24°23	13° 8	0♐22	14° 4	18°59	27°18	4°49	9°39	21°42	19°R56	21° 8	16°20	n.a.	M17
T 18	1 32 39	21°45'26	7♌48	14° 9	1°34	14° 6	19°10	27°25	4°51	9°39	21°42	19°54	21° 4	16°27	n.a.	T 18
W19	1 36 35	22°46'07	21°42	15° 6	2°45	14° 7	19°20	27°32	4°52	9°40	21°41	19°51	21° 1	16°34	n.a.	W19
T 20	1 40 32	23°46'49	6♍ 4	16° 0	3°57	14°R 7	19°31	27°39	4°54	9°41	21°40	19°45	20°58	16°40	n.a.	T 20
F 21	1 44 29	24°47'34	20°52	16°49	5° 9	14° 7	19°42	27°45	4°55	9°42	21°39	19°38	20°55	16°47	n.a.	F 21
S 22	1 48 25	25°48'19	6♎ 0	17°32	6°21	14° 5	19°52	27°52	4°56	9°43	21°38	19°29	20°52	16°54	n.a.	S 22
S 23	1 52 22	26°49'07	21°18	18°10	7°32	14° 3	20° 3	27°59	4°58	9°44	21°37	19°21	20°48	17° 1	n.a.	S 23
M24	1 56 18	27°49'56	6♏35	18°42	8°44	14° 0	20°14	28° 5	4°59	9°45	21°36	19°13	20°45	17° 7	n.a.	M24
T 25	2 0 15	28°50'46	21°40	19° 7	9°55	13°56	20°26	28°12	5° 0	9°46	21°35	19° 8	20°42	17°14	n.a.	T 25
W26	2 4 11	29°51'38	6♐24	19°23	11° 7	13°52	20°37	28°18	5° 1	9°47	21°34	19° 5	20°39	17°21	n.a.	W26
T 27	2 8 8	0♏52'30	20°42	19°R31	12°18	13°46	20°48	28°25	5° 2	9°48	21°33	19°D 5	20°36	17°27	n.a.	T 27
F 28	2 12 4	1°53'24	4♉31	19°29	13°29	13°39	21° 0	28°31	5° 3	9°49	21°32	19° 5	20°33	17°34	n.a.	F 28
S 29	2 16 1	2°54'19	17°52	19°17	14°40	13°32	21°11	28°38	5° 4	9°50	21°32	19° 7	20°29	17°41	n.a.	S 29
S 30	2 19 58	3°55'15	0♒48	18°55	15°52	13°24	21°23	28°44	5° 5	9°51	21°31	19°R 8	20°26	17°47	n.a.	S 30
M31	2 23 54	4♏56'11	13♒24	18♏21	17♐ 3	13♊15	21♐35	28♍50	5♌ 5	9♉52	21♓30	19♊ 7	20♊23	17♈54	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s52	24s55	1s30	10s23	1s39	16s29	1s13	22n36	0n 8	23s13	0s12	3n56	2n18	20n 1	0n38	23s 8	0n14	19s17	17s36	23n27	23n28	1n25		n.a.
S 2	2 16	24 27	2 32	11 1	1 44	16 55	1 16	22 39	0 10	23 14	0 12	3 53	2 18	20 1	0 39	23 8	0 14	19 17	17 35	23 27	23 28	1 28		n.a.
M 3	2 40	22 44	3 25	11 38	1 50	17 20	1 19	22 43	0 12	23 15	0 12	3 51	2 18	20 0	0 39	23 8	0 14	19 17	17 35	23 26	23 28	1 31		n.a.
T 4	3 4	19 58	4 8	12 14	1 56	17 44	1 22	22 47	0 14	23 16	0 12	3 48	2 18	20 0	0 39	23 8	0 14	19 18	17 35	23 26	23 27	1 34		n.a.
W 5	3 28	16 22	4 39	12 50	2 1	18 9	1 25	22 50	0 16	23 16	0 12	3 45	2 18	19 59	0 39	23 8	0 14	19 18	17 35	23 25	23 27	1 37		n.a.
T 6	3 52	12 8	4 56	13 24	2 6	18 33	1 28	22 53	0 18	23 17	0 12	3 42	2 18	19 59	0 39	23 8	0 14	19 18	17 35	23 25	23 27	1 40		n.a.
F 7	4 16	7 29	5 1	13 58	2 11	18 56	1 31	22 57	0 20	23 18	0 12	3 39	2 18	19 58	0 39	23 8	0 14	19 19	17 35	23 24	23 27	1 43		n.a.
S 8	4 40	2 34	4 52	14 30	2 16	19 19	1 33	23 0	0 22	23 19	0 12	3 37	2 18	19 58	0 39	23 8	0 14	19 19	17 35	23 23	23 27	1 46		n.a.
S 9	5 4	2n26	4 31	15 2	2 20	19 41	1 36	23 3	0 24	23 20	0 12	3 34	2 18	19 58	0 39	23 8	0 14	19 19	17 35	23 22	23 26	1 49		n.a.
M10	5 28	7 21	3 58	15 33	2 24	20 3	1 39	23 6	0 26	23 21	0 13	3 31	2 18	19 57	0 39	23 8	0 14	19 20	17 34	23 21	23 26	1 52		n.a.
T 11	5 51	12 1	3 14	16 2	2 28	20 25	1 41	23 9	0 28	23 22	0 13	3 28	2 18	19 57	0 39	23 8	0 14	19 20	17 34	23 20	23 26	1 54		n.a.
W12	6 15	16 15	2 22	16 31	2 31	20 45	1 44	23 12	0 30	23 23	0 13	3 26	2 18	19 56	0 39	23 8	0 14	19 20	17 34	23 20	23 26	1 57		n.a.
T 13	6 38	19 53	1 23	16 57	2 34	21 6	1 47	23 15	0 33	23 24	0 13	3 23	2 18	19 56	0 39	23 8	0 14	19 20	17 34	23 20	23 26	2 0		n.a.
F 14	7 2	22 42	0 19	17 23	2 36	21 25	1 49	23 18	0 35	23 25	0 13	3 20	2 19	19 56	0 39	23 8	0 14	19 21	17 34	23 19	23 25	2 3		n.a.
S 15	7 25	24 29	0n47	17 47	2 38	21 45	1 52	23 21	0 37	23 26	0 13	3 18	2 19	19 55	0 39	23 8	0 14	19 21	17 34	23 19	23 25	2 6		n.a.
S 16	7 48	25 5	1 52	18 9	2 39	22 3	1 54	23 24	0 40	23 27	0 13	3 15	2 19	19 55	0 39	23 8	0 14	19 21	17 33	23 19	23 25	2 9		n.a.
M17	8 11	24 20	2 54	18 30	2 40	22 21	1 56	23 27	0 42	23 28	0 13	3 12	2 19	19 55	0 39	23 8	0 14	19 21	17 33	23 20	23 25	2 12		n.a.
T 18	8 34	22 11	3 47	18 49	2 40	22 39	1 59	23 29	0 44	23 29	0 13	3 10	2 19	19 54	0 39	23 8	0 14	19 22	17 33	23 19	23 24	2 15		n.a.
W19	8 57	18 41	4 30	19 5	2 39	22 55	2 1	23 32	0 47	23 30	0 13	3 7	2 19	19 54	0 39	23 7	0 14	19 22	17 33	23 19	23 24	2 18		n.a.
T 20	9 20	13 59	4 57	19 20	2 38	23 12	2 3	23 34	0 49	23 31	0 13	3 4	2 19	19 54	0 39	23 7	0 14	19 22	17 33	23 19	23 24	2 21		n.a.
F 21	9 43	8 20	5 6	19 32	2 36	23 27	2 5	23 37	0 52	23 32	0 13	3 2	2 19	19 53	0 39	23 7	0 14	19 22	17 32	23 18	23 24	2 24		n.a.
S 22	10 5	2 4	4 53	19 41	2 32	23 42	2 7	23 39	0 54	23 33	0 14	2 59	2 19	19 53	0 39	23 7	0 14	19 22	17 32	23 17	23 24	2 27		n.a.
S 23	10 27	4s23	4 20	19 48	2 28	23 56	2 9	23 41	0 57	23 34	0 14	2 57	2 20	19 53	0 39	23 7	0 14	19 23	17 32	23 17	23 23	2 30		n.a.
M24	10 49	10 36	3 28	19 52	2 22	24 10	2 11	23 43	0 59	23 35	0 14	2 54	2 20	19 53	0 39	23 7	0 14	19 23	17 32	23 16	23 23	2 33		n.a.
T 25	11 11	16 6	2 22	19 52	2 15	24 23	2 13	23 45	1 2	23 36	0 14	2 52	2 20	19 52	0 39	23 7	0 14	19 23	17 32	23 16	23 23	2 36		n.a.
W26	11 33	20 31	1 8	19 49	2 7	24 35	2 14	23 47	1 5	23 36	0 14	2 49	2 20	19 52	0 39	23 7	0 14	19 23	17 31	23 16	23 23	2 38		n.a.
T 27	11 55	23 32	0s 9	19 41	1 57	24 46	2 16	23 49	1 7	23 37	0 14	2 47	2 20	19 52	0 40	23 7	0 14	19 23	17 31	23 15	23 22	2 41		n.a.
F 28	12 16	25 0	1 22	19 30	1 46	24 57	2 18	23 51	1 10	23 38	0 14	2 44	2 20	19 52	0 40	23 7	0 14	19 23	17 31	23 16	23 22	2 44		n.a.
S 29	12 37	24 58	2 29	19 15	1 33	25 7	2 19	23 53	1 12	23 39	0 14	2 42	2 20	19 51	0 40	23 7	0 14	19 23	17 31	23 16	23 22	2 47		n.a.
S 30	12 58	23 33	3 26	18 55	1 19	25 17	2 21	23 55	1 15	23 40	0 14	2 39	2 20	19 51	0 40	23 7	0 14	19 23	17 30	23 16	23 22	2 50		n.a.
M31	13s19	21s 0	4s11	18s30	1s 3	25s26	2s22	23n56	1n18	23s41	0s14	2n37	2n21	19n51	0n40	23s 7	0n14	19s24	17s30	23n16	23n22	2n53		n.a.

Julian Day Number = 1670561.5, Delta T = 03h20m47s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'21, Lahiri = - 5°52'21 Julian Calendar 1 Oct. 140 BCE == Greg. Calendar 28 Sept. 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

NOVEMBER 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 27 51	5♏57'09	25♒42	17°R36	18♐14	13°R 5	21♐46	28♍57	5♌ 6	9♑54	21°R29	19°R 5	20♊20	18♈ 1	n.a.	T 1
W 2	2 31 47	6°58'07	7♓49	16♏41	19°24	12♊54	21°58	29° 3	5° 7	9°55	21♓28	19♊ 1	20°17	18° 8	n.a.	W 2
T 3	2 35 44	7°59'06	19°47	15°37	20°35	12°43	22°10	29° 9	5° 7	9°56	21°28	18°55	20°14	18°14	n.a.	T 3
F 4	2 39 40	9° 0'06	1♈40	14°24	21°46	12°31	22°22	29°15	5° 8	9°57	21°27	18°48	20°10	18°21	n.a.	F 4
S 5	2 43 37	10° 1'07	13°32	13° 5	22°57	12°17	22°34	29°21	5° 8	9°59	21°26	18°40	20° 7	18°28	n.a.	S 5
S 6	2 47 33	11° 2'09	25°23	11°43	24° 7	12° 3	22°47	29°27	5° 9	10° 0	21°25	18°32	20° 4	18°34	n.a.	S 6
M 7	2 51 30	12° 3'12	7♉17	10°20	25°17	11°49	22°59	29°33	5° 9	10° 1	21°25	18°26	20° 1	18°41	n.a.	M 7
T 8	2 55 27	13° 4'16	19°15	9° 0	26°28	11°33	23°11	29°39	5°10	10° 3	21°24	18°21	19°58	18°48	n.a.	T 8
W 9	2 59 23	14° 5'20	1♊18	7°44	27°38	11°17	23°24	29°45	5°10	10° 4	21°23	18°17	19°54	18°55	n.a.	W 9
T 10	3 3 20	15° 6'26	13°29	6°35	28°48	11° 0	23°36	29°51	5°10	10° 6	21°23	18°D16	19°51	19° 1	n.a.	T 10
F 11	3 7 16	16° 7'32	25°48	5°35	29°58	10°42	23°49	29°56	5°10	10° 7	21°22	18°16	19°48	19° 8	n.a.	F 11
S 12	3 11 13	17° 8'40	8♋19	4°45	1♑ 8	10°24	24° 1	0♎ 2	5°10	10° 9	21°22	18°17	19°45	19°15	n.a.	S 12
S 13	3 15 9	18° 9'49	21° 4	4° 6	2°17	10° 5	24°14	0° 8	5°R10	10°10	21°21	18°19	19°42	19°21	n.a.	S 13
M14	3 19 6	19°10'58	4♌ 6	3°39	3°27	9°45	24°27	0°13	5°10	10°12	21°21	18°21	19°39	19°28	n.a.	M14
T 15	3 23 2	20°12'08	17°28	3°22	4°36	9°25	24°40	0°19	5°10	10°13	21°20	18°R21	19°35	19°35	n.a.	T 15
W16	3 26 59	21°13'20	1♍12	3°D16	5°46	9° 4	24°53	0°24	5°10	10°15	21°19	18°21	19°32	19°41	n.a.	W16
T 17	3 30 56	22°14'32	15°19	3°21	6°55	8°43	25° 6	0°30	5°10	10°17	21°19	18°19	19°29	19°48	n.a.	T 17
F 18	3 34 52	23°15'45	29°48	3°34	8° 4	8°21	25°19	0°35	5°10	10°18	21°19	18°17	19°26	19°55	n.a.	F 18
S 19	3 38 49	24°16'59	14♎34	3°56	9°13	7°59	25°32	0°40	5°10	10°20	21°18	18°13	19°23	20° 2	n.a.	S 19
S 20	3 42 45	25°18'13	29°33	4°26	10°22	7°36	25°45	0°45	5° 9	10°22	21°18	18°10	19°20	20° 8	n.a.	S 20
M21	3 46 42	26°19'28	14♏35	5° 3	11°30	7°14	25°58	0°50	5° 9	10°24	21°17	18° 7	19°16	20°15	n.a.	M21
T 22	3 50 38	27°20'44	29°31	5°46	12°39	6°50	26°11	0°55	5° 8	10°25	21°17	18° 5	19°13	20°22	n.a.	T 22
W23	3 54 35	28°22'00	14♐14	6°34	13°47	6°27	26°24	1° 0	5° 8	10°27	21°17	18°D 4	19°10	20°28	n.a.	W23
T 24	3 58 31	29°23'16	28°36	7°27	14°55	6° 3	26°38	1° 5	5° 7	10°29	21°16	18° 4	19° 7	20°35	n.a.	T 24
F 25	4 2 28	0♐24'33	12♑32	8°25	16° 3	5°39	26°51	1°10	5° 7	10°31	21°16	18° 5	19° 4	20°42	n.a.	F 25
S 26	4 6 25	1°25'49	26° 3	9°26	17°11	5°15	27° 5	1°15	5° 6	10°33	21°16	18° 7	19° 0	20°49	n.a.	S 26
S 27	4 10 21	2°27'05	9♒ 7	10°30	18°18	4°51	27°18	1°20	5° 5	10°35	21°15	18° 8	18°57	20°55	n.a.	S 27
M28	4 14 18	3°28'21	21°49	11°37	19°26	4°27	27°32	1°24	5° 4	10°36	21°15	18° 9	18°54	21° 2	n.a.	M28
T 29	4 18 14	4°29'37	4♓12	12°47	20°33	4° 3	27°45	1°29	5° 4	10°38	21°15	18°R 9	18°51	21° 9	n.a.	T 29
W30	4 22 11	5♐30'53	16♓19	14♏ 0	21♑40	3♊39	27♐59	1♎33	5♌ 3	10♑40	21♓15	18♊ 9	18♊48	21♈15	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s39	17s32	4s44	18s 0	0s46	25s33	2s23	23n58	1n21	23s42	0s14	2n34	2n21	19n51	0n40	23s 7	0n14	19s24	17s30	23n15	23n21	2n56		n.a.
W 2	14 0	13 25	5 3	17 27	0 27	25 41	2 24	23 59	1 23	23 42	0 14	2 32	2 21	19 51	0 40	23 7	0 14	19 24	17 30	23 15	23 21	2 59		n.a.
T 3	14 20	8 49	5 9	16 49	0 7	25 47	2 25	24 0	1 26	23 43	0 15	2 30	2 21	19 51	0 40	23 7	0 14	19 24	17 29	23 15	23 21	3 2		n.a.
F 4	14 40	3 56	5 1	16 8	0n13	25 53	2 26	24 1	1 29	23 44	0 15	2 27	2 21	19 51	0 40	23 6	0 14	19 24	17 29	23 14	23 21	3 5		n.a.
S 5	14 59	1n 5	4 41	15 25	0 34	25 58	2 27	24 2	1 32	23 45	0 15	2 25	2 21	19 51	0 40	23 6	0 14	19 24	17 29	23 13	23 20	3 8		n.a.
S 6	15 19	6 5	4 8	14 40	0 54	26 2	2 28	24 3	1 34	23 46	0 15	2 23	2 22	19 51	0 40	23 6	0 14	19 24	17 28	23 13	23 20	3 11		n.a.
M 7	15 38	10 53	3 25	13 55	1 14	26 6	2 28	24 4	1 37	23 46	0 15	2 21	2 22	19 51	0 40	23 6	0 14	19 24	17 28	23 12	23 20	3 14		n.a.
T 8	15 56	15 19	2 32	13 12	1 32	26 9	2 29	24 4	1 40	23 47	0 15	2 18	2 22	19 50	0 40	23 6	0 14	19 24	17 28	23 12	23 20	3 17		n.a.
W 9	16 15	19 10	1 31	12 32	1 49	26 11	2 29	24 5	1 43	23 48	0 15	2 16	2 22	19 50	0 40	23 6	0 14	19 24	17 28	23 11	23 19	3 20		n.a.
T 10	16 33	22 15	0 26	11 55	2 3	26 12	2 30	24 5	1 45	23 48	0 15	2 14	2 22	19 50	0 40	23 6	0 13	19 24	17 27	23 11	23 19	3 23		n.a.
F 11	16 51	24 20	0n41	11 24	2 16	26 12	2 30	24 5	1 48	23 49	0 15	2 12	2 22	19 50	0 40	23 6	0 13	19 24	17 27	23 11	23 19	3 26		n.a.
S 12	17 9	25 14	1 48	10 57	2 27	26 12	2 30	24 5	1 51	23 50	0 15	2 10	2 23	19 50	0 40	23 6	0 13	19 24	17 27	23 11	23 19	3 28		n.a.
S 13	17 26	24 50	2 50	10 36	2 35	26 11	2 30	24 5	1 53	23 50	0 15	2 8	2 23	19 50	0 40	23 6	0 13	19 24	17 26	23 12	23 18	3 31		n.a.
M14	17 43	23 6	3 45	10 21	2 41	26 10	2 30	24 5	1 56	23 51	0 15	2 6	2 23	19 51	0 40	23 6	0 13	19 24	17 26	23 12	23 18	3 34		n.a.
T 15	18 0	20 3	4 30	10 12	2 45	26 7	2 29	24 4	1 59	23 52	0 16	2 3	2 23	19 51	0 40	23 5	0 13	19 24	17 26	23 12	23 18	3 37		n.a.
W16	18 16	15 50	5 0	10 7	2 48	26 4	2 29	24 4	2 1	23 52	0 16	2 1	2 23	19 51	0 40	23 5	0 13	19 23	17 25	23 12	23 18	3 40		n.a.
T 17	18 32	10 39	5 14	10 8	2 48	26 0	2 29	24 3	2 4	23 53	0 16	2 0	2 24	19 51	0 40	23 5	0 13	19 23	17 25	23 12	23 17	3 43		n.a.
F 18	18 48	4 47	5 8	10 13	2 48	25 55	2 28	24 2	2 6	23 53	0 16	1 58	2 24	19 51	0 40	23 5	0 13	19 23	17 25	23 11	23 17	3 46		n.a.
S 19	19 3	1s29	4 42	10 23	2 46	25 50	2 27	24 1	2 9	23 54	0 16	1 56	2 24	19 51	0 41	23 5	0 13	19 23	17 24	23 11	23 17	3 49		n.a.
S 20	19 18	7 45	3 56	10 35	2 43	25 44	2 26	23 59	2 11	23 55	0 16	1 54	2 24	19 51	0 41	23 5	0 13	19 23	17 24	23 11	23 17	3 52		n.a.
M21	19 33	13 37	2 54	10 51	2 39	25 37	2 25	23 58	2 14	23 55	0 16	1 52	2 24	19 51	0 41	23 5	0 13	19 23	17 24	23 10	23 16	3 55		n.a.
T 22	19 47	18 39	1 41	11 10	2 35	25 30	2 24	23 56	2 16	23 56	0 16	1 50	2 25	19 51	0 41	23 5	0 13	19 23	17 23	23 10	23 16	3 58		n.a.
W23	20 1	22 25	0 21	11 31	2 29	25 22	2 23	23 54	2 18	23 56	0 16	1 48	2 25	19 52	0 41	23 5	0 13	19 22	17 23	23 10	23 16	4 1		n.a.
T 24	20 15	24 40	0s58	11 54	2 24	25 13	2 22	23 52	2 21	23 56	0 16	1 46	2 25	19 52	0 41	23 4	0 13	19 22	17 23	23 10	23 16	4 4		n.a.
F 25	20 28	25 17	2 11	12 18	2 17	25 3	2 20	23 50	2 23	23 57	0 16	1 45	2 25	19 52	0 41	23 4	0 13	19 22	17 22	23 10	23 15	4 7		n.a.
S 26	20 41	24 22	3 15	12 44	2 11	24 53	2 19	23 48	2 25	23 57	0 17	1 43	2 25	19 52	0 41	23 4	0 13	19 22	17 22	23 10	23 15	4 10		n.a.
S 27	20 53	22 8	4 6	13 11	2 4	24 42	2 17	23 45	2 27	23 58	0 17	1 41	2 26	19 52	0 41	23 4	0 13	19 22	17 22	23 11	23 15	4 13		n.a.
M28	21 5	18 52	4 44	13 39	1 57	24 31	2 15	23 43	2 29	23 58	0 17	1 40	2 26	19 53	0 41	23 4	0 13	19 21	17 21	23 11	23 15	4 16		n.a.
T 29	21 17	14 50	5 7	14 7	1 49	24 19	2 13	23 40	2 31	23 58	0 17	1 38	2 26	19 53	0 41	23 4	0 13	19 21	17 21	23 11	23 14	4 19		n.a.
W30	21s28	10s18	5s16	14s36	1n42	24s 6	2s11	23n37	2n33	23s59	0s17	1n37	2n26	19n53	0n41	23s 4	0n13	19s21	17s20	23n11	23n14	4n22		n.a.

Julian Day Number = 1670592.5, Delta T = 03h20m46s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'17, Lahiri = - 5°52'16 Julian Calendar 1 Nov. 140 BCE == Greg. Calendar 29 Oct. 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 140 BCE
geocentric

DECEMBER 140 BCE (-139) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 26 7	6♐32'09	28♓17	15♏14	22♑47	3°R16	28♐13	1♎37	5°R 2	10♑42	21°R14	18°R 8	18♊45	21♈22	n.a.	T 1
F 2	4 30 4	7°33'24	10♈ 9	16°30	23°53	2♊52	28°26	1°42	5♌ 1	10°44	21♓14	18♊ 7	18°41	21°29	n.a.	F 2
S 3	4 34 1	8°34'39	21°59	17°47	24°59	2°29	28°40	1°46	5° 0	10°46	21°14	18° 6	18°38	21°35	n.a.	S 3
S 4	4 37 57	9°35'53	3♉52	19° 6	26° 5	2° 6	28°54	1°50	4°59	10°48	21°14	18° 4	18°35	21°42	n.a.	S 4
M 5	4 41 54	10°37'08	15°50	20°27	27°11	1°44	29° 8	1°54	4°58	10°50	21°14	18° 3	18°32	21°49	n.a.	M 5
T 6	4 45 50	11°38'22	27°55	21°48	28°17	1°21	29°21	1°58	4°56	10°52	21°14	18° 2	18°29	21°56	n.a.	T 6
W 7	4 49 47	12°39'36	10♊10	23°11	29°22	0°59	29°35	2° 2	4°55	10°54	21°14	18° 2	18°26	22° 2	n.a.	W 7
T 8	4 53 43	13°40'50	22°35	24°34	0♒27	0°38	29°49	2° 5	4°54	10°56	21°14	18°D 2	18°22	22° 9	n.a.	T 8
F 9	4 57 40	14°42'03	5♋13	25°59	1°31	0°17	0♑ 3	2° 9	4°52	10°58	21°D14	18° 2	18°19	22°16	n.a.	F 9
S 10	5 1 36	15°43'17	18° 3	27°24	2°36	29♉57	0°17	2°13	4°51	11° 1	21°14	18° 2	18°16	22°22	n.a.	S 10
S 11	5 5 33	16°44'30	1♌ 6	28°50	3°40	29°37	0°31	2°16	4°50	11° 3	21°14	18° 2	18°13	22°29	n.a.	S 11
M12	5 9 30	17°45'43	14°23	0♐16	4°44	29°18	0°45	2°20	4°48	11° 5	21°14	18°R 3	18°10	22°36	n.a.	M12
T 13	5 13 26	18°46'55	27°54	1°44	5°47	28°59	0°59	2°23	4°47	11° 7	21°14	18° 3	18° 6	22°42	n.a.	T 13
W14	5 17 23	19°48'08	11♍39	3°12	6°50	28°41	1°13	2°26	4°45	11° 9	21°14	18° 2	18° 3	22°49	n.a.	W14
T 15	5 21 19	20°49'20	25°39	4°40	7°53	28°24	1°27	2°29	4°43	11°11	21°14	18°D 2	18° 0	22°56	n.a.	T 15
F 16	5 25 16	21°50'31	9♎51	6°10	8°55	28° 7	1°41	2°32	4°42	11°13	21°14	18° 3	17°57	23° 3	n.a.	F 16
S 17	5 29 12	22°51'43	24°14	7°39	9°57	27°51	1°55	2°35	4°40	11°16	21°15	18° 3	17°54	23° 9	n.a.	S 17
S 18	5 33 9	23°52'54	8♏45	9°10	10°59	27°36	2°10	2°38	4°38	11°18	21°15	18° 3	17°51	23°16	n.a.	S 18
M19	5 37 5	24°54'05	23°19	10°41	12° 0	27°22	2°24	2°41	4°36	11°20	21°15	18° 4	17°47	23°23	n.a.	M19
T 20	5 41 2	25°55'16	7♐51	12°12	13° 1	27° 8	2°38	2°44	4°35	11°22	21°15	18° 5	17°44	23°29	n.a.	T 20
W21	5 44 59	26°56'25	22°15	13°44	14° 1	26°55	2°52	2°46	4°33	11°24	21°16	18°R 5	17°41	23°36	n.a.	W21
T 22	5 48 55	27°57'34	6♑24	15°17	15° 1	26°43	3° 6	2°49	4°31	11°27	21°16	18° 4	17°38	23°43	n.a.	T 22
F 23	5 52 52	28°58'42	20°16	16°50	16° 0	26°32	3°20	2°51	4°29	11°29	21°16	18° 3	17°35	23°49	n.a.	F 23
S 24	5 56 48	29°59'50	3♒46	18°24	16°59	26°21	3°35	2°53	4°27	11°31	21°16	18° 2	17°32	23°56	n.a.	S 24
S 25	6 0 45	1♑ 0'56	16°54	19°58	17°58	26°12	3°49	2°55	4°25	11°33	21°17	18° 0	17°28	24° 3	n.a.	S 25
M26	6 4 41	2° 2'00	29°40	21°33	18°56	26° 3	4° 3	2°58	4°23	11°36	21°17	17°58	17°25	24°10	n.a.	M26
T 27	6 8 38	3° 3'04	12♓ 7	23° 9	19°53	25°55	4°17	3° 0	4°21	11°38	21°18	17°56	17°22	24°16	n.a.	T 27
W28	6 12 35	4° 4'06	24°18	24°45	20°50	25°48	4°32	3° 1	4°19	11°40	21°18	17°55	17°19	24°23	n.a.	W28
T 29	6 16 31	5° 5'07	6♈18	26°22	21°46	25°41	4°46	3° 3	4°17	11°42	21°18	17°D55	17°16	24°30	n.a.	T 29
F 30	6 20 28	6° 6'07	18°10	27°59	22°42	25°36	5° 0	3° 5	4°14	11°45	21°19	17°55	17°12	24°36	n.a.	F 30
S 31	6 24 24	7♑ 7'05	0♉ 1	29♐38	23♒37	25♉31	5♑14	3♎ 6	4♌12	11♑47	21♓19	17♊57	17♊ 9	24♈43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21s39	5s27	5s12	15s 6	1n34	23s52	2s 8	23n34	2n34	23s59	0s17	1n35	2n27	19n53	0n41	23s 3	0n13	19s21	17s20	23n11	23n14	4n24		n.a.
F 2	21 49	0 26	4 54	15 35	1 26	23 38	2 6	23 31	2 36	23 59	0 17	1 34	2 27	19 54	0 41	23 3	0 13	19 20	17 20	23 10	23 13	4 27		n.a.
S 3	21 59	4n36	4 23	16 5	1 18	23 24	2 3	23 28	2 38	23 59	0 17	1 32	2 27	19 54	0 41	23 3	0 13	19 20	17 19	23 10	23 13	4 30		n.a.
S 4	22 9	9 29	3 41	16 34	1 10	23 9	2 1	23 25	2 39	24 0	0 17	1 31	2 27	19 54	0 41	23 3	0 13	19 20	17 19	23 10	23 13	4 33		n.a.
M 5	22 18	14 4	2 49	17 4	1 2	22 53	1 58	23 22	2 41	24 0	0 17	1 29	2 27	19 55	0 41	23 3	0 13	19 20	17 19	23 10	23 13	4 36		n.a.
T 6	22 26	18 9	1 49	17 33	0 54	22 37	1 55	23 19	2 42	24 0	0 17	1 28	2 28	19 55	0 41	23 3	0 13	19 19	17 18	23 10	23 12	4 39		n.a.
W 7	22 34	21 31	0 44	18 2	0 47	22 20	1 52	23 15	2 43	24 0	0 17	1 27	2 28	19 55	0 41	23 3	0 13	19 19	17 18	23 10	23 12	4 42		n.a.
T 8	22 42	23 55	0n25	18 30	0 39	22 3	1 48	23 12	2 45	24 0	0 18	1 25	2 28	19 56	0 41	23 2	0 13	19 19	17 18	23 10	23 12	4 45		n.a.
F 9	22 49	25 10	1 34	18 58	0 31	21 45	1 45	23 8	2 46	24 0	0 18	1 24	2 28	19 56	0 41	23 2	0 13	19 18	17 17	23 10	23 12	4 48		n.a.
S 10	22 56	25 6	2 39	19 25	0 23	21 27	1 41	23 5	2 47	24 0	0 18	1 23	2 29	19 56	0 41	23 2	0 13	19 18	17 17	23 10	23 11	4 51		n.a.
S 11	23 3	23 40	3 37	19 52	0 16	21 8	1 37	23 2	2 48	24 1	0 18	1 22	2 29	19 57	0 41	23 2	0 13	19 18	17 16	23 10	23 11	4 54		n.a.
M12	23 8	20 55	4 24	20 18	0 8	20 49	1 33	22 58	2 49	24 1	0 18	1 21	2 29	19 57	0 41	23 2	0 13	19 17	17 16	23 10	23 11	4 57		n.a.
T 13	23 14	16 59	4 58	20 44	0 1	20 29	1 29	22 55	2 50	24 1	0 18	1 19	2 29	19 57	0 41	23 2	0 13	19 17	17 16	23 10	23 10	5 0		n.a.
W14	23 19	12 7	5 15	21 9	0s 7	20 9	1 25	22 52	2 50	24 1	0 18	1 18	2 30	19 58	0 41	23 1	0 13	19 17	17 15	23 10	23 10	5 3		n.a.
T 15	23 23	6 33	5 15	21 32	0 14	19 48	1 21	22 49	2 51	24 0	0 18	1 17	2 30	19 58	0 42	23 1	0 13	19 16	17 15	23 10	23 10	5 6		n.a.
F 16	23 27	0 34	4 55	21 55	0 21	19 27	1 16	22 45	2 52	24 0	0 18	1 16	2 30	19 59	0 42	23 1	0 13	19 16	17 15	23 10	23 10	5 9		n.a.
S 17	23 31	5s32	4 16	22 17	0 28	19 6	1 11	22 42	2 52	24 0	0 18	1 15	2 31	19 59	0 42	23 1	0 13	19 15	17 14	23 10	23 9	5 12		n.a.
S 18	23 34	11 24	3 21	22 38	0 34	18 44	1 7	22 39	2 53	24 0	0 19	1 14	2 31	20 0	0 42	23 1	0 13	19 15	17 14	23 10	23 9	5 15		n.a.
M19	23 37	16 40	2 13	22 59	0 41	18 22	1 2	22 36	2 53	24 0	0 19	1 14	2 31	20 0	0 42	23 1	0 13	19 14	17 13	23 10	23 9	5 18		n.a.
T 20	23 39	20 56	0 56	23 18	0 47	18 0	0 56	22 33	2 54	24 0	0 19	1 13	2 31	20 1	0 42	23 0	0 13	19 14	17 13	23 10	23 8	5 21		n.a.
W21	23 41	23 52	0s23	23 36	0 53	17 37	0 51	22 31	2 54	24 0	0 19	1 12	2 32	20 1	0 42	23 0	0 13	19 14	17 13	23 10	23 8	5 24		n.a.
T 22	23 42	25 13	1 40	23 52	0 59	17 15	0 46	22 28	2 54	23 59	0 19	1 11	2 32	20 2	0 42	23 0	0 13	19 13	17 12	23 10	23 8	5 27		n.a.
F 23	23 43	24 57	2 49	24 8	1 5	16 51	0 40	22 25	2 54	23 59	0 19	1 11	2 32	20 2	0 42	23 0	0 13	19 13	17 12	23 10	23 7	5 29		n.a.
S 24	23 43	23 12	3 47	24 22	1 11	16 28	0 34	22 23	2 55	23 59	0 19	1 10	2 32	20 3	0 42	23 0	0 13	19 12	17 12	23 10	23 7	5 32		n.a.
S 25	23 43	20 15	4 31	24 35	1 16	16 4	0 28	22 21	2 55	23 59	0 19	1 9	2 33	20 3	0 42	22 59	0 13	19 12	17 11	23 10	23 7	5 35		n.a.
M26	23 42	16 23	5 0	24 47	1 21	15 40	0 22	22 19	2 55	23 58	0 19	1 9	2 33	20 4	0 42	22 59	0 13	19 11	17 11	23 10	23 7	5 38		n.a.
T 27	23 41	11 55	5 15	24 58	1 26	15 16	0 16	22 17	2 55	23 58	0 19	1 8	2 33	20 4	0 42	22 59	0 13	19 11	17 11	23 9	23 6	5 41		n.a.
W28	23 39	7 5	5 14	25 7	1 31	14 52	0 9	22 15	2 55	23 58	0 20	1 8	2 34	20 5	0 42	22 59	0 13	19 10	17 10	23 9	23 6	5 44		n.a.
T 29	23 37	2 3	5 0	25 15	1 35	14 27	0 3	22 13	2 55	23 57	0 20	1 7	2 34	20 5	0 42	22 59	0 13	19 10	17 10	23 9	23 6	5 47		n.a.
F 30	23 34	3n 0	4 33	25 21	1 39	14 2	0n 4	22 12	2 54	23 57	0 20	1 7	2 34	20 6	0 42	22 59	0 13	19 9	17 9	23 9	23 5	5 50		n.a.
S 31	23s31	7n57	3s55	25s25	1s43	13s38	0n11	22n10	2n54	23s56	0s20	1n 6	2n34	20n 6	0n42	22s58	0n13	19s 9	17s 9	23n10	23n 5	5n53		n.a.

Julian Day Number = 1670622.5, Delta T = 03h20m45s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'13, Lahiri = - 5°52'12 Julian Calendar 1 Dec. 140 BCE == Greg. Calendar 28 Nov. 140 BCE

The year -139 astronomical counting style corresponds to year 140 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

JANUARY 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 28 21	8♑ 8'02	11♉54	1♑16	24♒31	25°R27	5♑28	3♎ 8	4°R10	11♑49	21♓20	17♊58	17♊ 6	24♈50	n.a.	S 1
M 2	6 32 17	9° 8'57	23°54	2°56	25°25	25♉24	5°43	3° 9	4♌ 8	11°51	21°20	18° 0	17° 3	24°56	n.a.	M 2
T 3	6 36 14	10° 9'51	6♊ 6	4°36	26°18	25°21	5°57	3°10	4° 5	11°54	21°21	18° 1	17° 0	25° 3	n.a.	T 3
W 4	6 40 10	11°10'44	18°31	6°17	27°10	25°20	6°11	3°12	4° 3	11°56	21°22	18°R 2	16°57	25°10	n.a.	W 4
T 5	6 44 7	12°11'35	1♋12	7°59	28° 2	25°19	6°25	3°13	4° 1	11°58	21°22	18° 1	16°53	25°16	n.a.	T 5
F 6	6 48 4	13°12'25	14°10	9°41	28°53	25°D19	6°39	3°14	3°58	12° 1	21°23	17°59	16°50	25°23	n.a.	F 6
S 7	6 52 0	14°13'14	27°24	11°24	29°42	25°19	6°54	3°14	3°56	12° 3	21°23	17°56	16°47	25°30	n.a.	S 7
S 8	6 55 57	15°14'01	10♌54	13° 8	0♓32	25°21	7° 8	3°15	3°53	12° 5	21°24	17°52	16°44	25°37	n.a.	S 8
M 9	6 59 53	16°14'47	24°36	14°53	1°20	25°23	7°22	3°16	3°51	12° 7	21°25	17°47	16°41	25°43	n.a.	M 9
T 10	7 3 50	17°15'32	8♍29	16°39	2° 7	25°26	7°36	3°16	3°48	12°10	21°26	17°43	16°38	25°50	n.a.	T 10
W11	7 7 46	18°16'15	22°30	18°25	2°53	25°29	7°50	3°17	3°46	12°12	21°26	17°40	16°34	25°57	n.a.	W11
T 12	7 11 43	19°16'58	6♎36	20°12	3°39	25°34	8° 4	3°17	3°44	12°14	21°27	17°37	16°31	26° 3	n.a.	T 12
F 13	7 15 39	20°17'39	20°44	22° 0	4°23	25°38	8°18	3°17	3°41	12°16	21°28	17°D37	16°28	26°10	n.a.	F 13
S 14	7 19 36	21°18'18	4♏54	23°48	5° 6	25°44	8°32	3°17	3°38	12°19	21°29	17°37	16°25	26°17	n.a.	S 14
S 15	7 23 33	22°18'57	19° 3	25°37	5°48	25°50	8°46	3°R18	3°36	12°21	21°29	17°39	16°22	26°23	n.a.	S 15
M16	7 27 29	23°19'34	3♐10	27°27	6°29	25°57	9° 0	3°17	3°33	12°23	21°30	17°40	16°18	26°30	n.a.	M16
T 17	7 31 26	24°20'10	17°12	29°18	7° 9	26° 5	9°15	3°17	3°31	12°25	21°31	17°R41	16°15	26°37	n.a.	T 17
W18	7 35 22	25°20'45	1♑ 7	1♒ 9	7°48	26°13	9°28	3°17	3°28	12°28	21°32	17°40	16°12	26°44	n.a.	W18
T 19	7 39 19	26°21'18	14°53	3° 0	8°25	26°22	9°42	3°17	3°26	12°30	21°33	17°38	16° 9	26°50	n.a.	T 19
F 20	7 43 15	27°21'49	28°26	4°52	9° 1	26°31	9°56	3°16	3°23	12°32	21°34	17°33	16° 6	26°57	n.a.	F 20
S 21	7 47 12	28°22'19	11♒43	6°44	9°36	26°41	10°10	3°15	3°20	12°34	21°35	17°26	16° 3	27° 4	n.a.	S 21
S 22	7 51 8	29°22'46	24°44	8°35	10° 9	26°52	10°24	3°15	3°18	12°37	21°35	17°19	15°59	27°10	n.a.	S 22
M23	7 55 5	0♒23'12	7♓27	10°27	10°40	27° 3	10°38	3°14	3°15	12°39	21°36	17°11	15°56	27°17	n.a.	M23
T 24	7 59 2	1°23'36	19°54	12°18	11°10	27°14	10°52	3°13	3°13	12°41	21°37	17° 3	15°53	27°24	n.a.	T 24
W25	8 2 58	2°23'58	2♈ 5	14° 8	11°39	27°27	11° 6	3°12	3°10	12°43	21°38	16°57	15°50	27°30	n.a.	W25
T 26	8 6 55	3°24'17	14° 6	15°57	12° 6	27°40	11°19	3°11	3° 7	12°45	21°39	16°53	15°47	27°37	n.a.	T 26
F 27	8 10 51	4°24'35	25°58	17°45	12°31	27°53	11°33	3°10	3° 5	12°47	21°40	16°51	15°44	27°44	n.a.	F 27
S 28	8 14 48	5°24'50	7♉48	19°31	12°54	28° 7	11°47	3° 8	3° 2	12°50	21°41	16°D51	15°40	27°50	n.a.	S 28
S 29	8 18 44	6°25'03	19°41	21°15	13°15	28°21	12° 0	3° 7	2°59	12°52	21°42	16°51	15°37	27°57	n.a.	S 29
M30	8 22 41	7°25'15	1♊41	22°55	13°35	28°36	12°14	3° 5	2°57	12°54	21°43	16°53	15°34	28° 4	n.a.	M30
T 31	8 26 37	8♒25'24	13♊54	24♒33	13♓52	28♉51	12♑27	3♎ 4	2♌54	12♑56	21♓45	16°R54	15♊31	28♈10	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s28	12n38	3s 6	25s29	1s46	13s13	0n18	22n 9	2n54	23s56	0s20	1n 6	2n35	20n 7	0n42	22s58	0n13	19s 8	17s 9	23n10	23n 5	5n56		n.a.
M 2	23 24	16 53	2 9	25 30	1 49	12 48	0 25	22 8	2 54	23 55	0 20	1 6	2 35	20 7	0 42	22 58	0 13	19 8	17 8	23 10	23 4	5 59		n.a.
T 3	23 19	20 30	1 5	25 30	1 52	12 23	0 33	22 7	2 54	23 55	0 20	1 6	2 35	20 8	0 42	22 58	0 13	19 7	17 8	23 10	23 4	6 2		n.a.
W 4	23 14	23 15	0n 3	25 28	1 55	11 57	0 41	22 7	2 53	23 54	0 20	1 5	2 35	20 9	0 42	22 58	0 13	19 7	17 8	23 10	23 4	6 5		n.a.
T 5	23 9	24 54	1 12	25 25	1 57	11 32	0 48	22 6	2 53	23 54	0 20	1 5	2 36	20 9	0 42	22 57	0 13	19 6	17 7	23 10	23 3	6 8		n.a.
F 6	23 3	25 15	2 19	25 20	1 59	11 7	0 56	22 6	2 53	23 53	0 20	1 5	2 36	20 10	0 42	22 57	0 13	19 5	17 7	23 10	23 3	6 11		n.a.
S 7	22 57	24 11	3 19	25 13	2 0	10 42	1 4	22 6	2 52	23 52	0 21	1 5	2 36	20 10	0 42	22 57	0 13	19 5	17 7	23 9	23 3	6 14		n.a.
S 8	22 50	21 42	4 10	25 4	2 1	10 17	1 13	22 6	2 52	23 52	0 21	1 5	2 37	20 11	0 42	22 57	0 13	19 4	17 6	23 9	23 3	6 17		n.a.
M 9	22 43	17 59	4 48	24 53	2 2	9 52	1 21	22 6	2 51	23 51	0 21	1 5	2 37	20 12	0 42	22 57	0 13	19 4	17 6	23 9	23 2	6 20		n.a.
T 10	22 35	13 14	5 9	24 41	2 2	9 27	1 30	22 6	2 51	23 50	0 21	1 5	2 37	20 12	0 42	22 56	0 13	19 3	17 6	23 8	23 2	6 23		n.a.
W11	22 27	7 46	5 12	24 26	2 1	9 2	1 39	22 6	2 50	23 50	0 21	1 5	2 37	20 13	0 42	22 56	0 13	19 3	17 5	23 8	23 2	6 26		n.a.
T 12	22 18	1 52	4 56	24 10	2 1	8 37	1 48	22 7	2 50	23 49	0 21	1 5	2 38	20 13	0 42	22 56	0 13	19 2	17 5	23 8	23 1	6 29		n.a.
F 13	22 10	4s 9	4 22	23 51	1 59	8 12	1 57	22 8	2 49	23 48	0 21	1 5	2 38	20 14	0 42	22 56	0 13	19 1	17 5	23 8	23 1	6 32		n.a.
S 14	22 0	9 58	3 32	23 31	1 58	7 48	2 6	22 8	2 49	23 47	0 21	1 6	2 38	20 15	0 42	22 56	0 13	19 1	17 4	23 8	23 1	6 34		n.a.
S 15	21 50	15 17	2 30	23 9	1 55	7 24	2 15	22 9	2 48	23 47	0 21	1 6	2 39	20 15	0 42	22 55	0 13	19 0	17 4	23 8	23 0	6 37		n.a.
M16	21 40	19 45	1 18	22 45	1 52	6 59	2 25	22 10	2 48	23 46	0 22	1 6	2 39	20 16	0 42	22 55	0 13	19 0	17 4	23 8	23 0	6 40		n.a.
T 17	21 30	23 3	0 3	22 18	1 49	6 36	2 35	22 12	2 47	23 45	0 22	1 6	2 39	20 17	0 42	22 55	0 12	18 59	17 3	23 8	23 0	6 43		n.a.
W18	21 19	24 55	1s13	21 50	1 45	6 12	2 45	22 13	2 46	23 44	0 22	1 7	2 39	20 17	0 42	22 55	0 12	18 58	17 3	23 8	22 59	6 46		n.a.
T 19	21 7	25 14	2 22	21 20	1 40	5 49	2 55	22 15	2 46	23 43	0 22	1 7	2 40	20 18	0 42	22 55	0 12	18 58	17 3	23 8	22 59	6 49		n.a.
F 20	20 56	24 1	3 23	20 48	1 35	5 26	3 5	22 16	2 45	23 42	0 22	1 8	2 40	20 18	0 42	22 54	0 12	18 57	17 3	23 7	22 59	6 52		n.a.
S 21	20 43	21 29	4 11	20 14	1 29	5 3	3 15	22 18	2 44	23 41	0 22	1 8	2 40	20 19	0 42	22 54	0 12	18 56	17 2	23 7	22 58	6 55		n.a.
S 22	20 31	17 54	4 45	19 39	1 22	4 41	3 26	22 20	2 44	23 40	0 22	1 9	2 40	20 20	0 42	22 54	0 12	18 56	17 2	23 6	22 58	6 58		n.a.
M23	20 18	13 34	5 4	19 1	1 15	4 19	3 36	22 22	2 43	23 39	0 22	1 9	2 41	20 20	0 42	22 54	0 12	18 55	17 2	23 5	22 58	7 1		n.a.
T 24	20 5	8 45	5 8	18 22	1 7	3 58	3 47	22 24	2 42	23 38	0 23	1 10	2 41	20 21	0 42	22 54	0 12	18 55	17 1	23 4	22 57	7 4		n.a.
W25	19 51	3 42	4 58	17 42	0 58	3 37	3 58	22 26	2 42	23 37	0 23	1 11	2 41	20 22	0 42	22 53	0 12	18 54	17 1	23 4	22 57	7 7		n.a.
T 26	19 37	1n24	4 35	17 1	0 49	3 17	4 9	22 29	2 41	23 36	0 23	1 11	2 42	20 22	0 42	22 53	0 12	18 53	17 1	23 3	22 57	7 10		n.a.
F 27	19 23	6 25	4 0	16 18	0 39	2 57	4 20	22 31	2 40	23 35	0 23	1 12	2 42	20 23	0 42	22 53	0 12	18 53	17 1	23 3	22 56	7 13		n.a.
S 28	19 8	11 12	3 15	15 34	0 28	2 38	4 31	22 34	2 40	23 34	0 23	1 13	2 42	20 23	0 42	22 53	0 12	18 52	17 0	23 3	22 56	7 16		n.a.
S 29	18 53	15 35	2 21	14 50	0 16	2 19	4 42	22 36	2 39	23 33	0 23	1 14	2 42	20 24	0 42	22 53	0 12	18 51	17 0	23 3	22 56	7 19		n.a.
M30	18 38	19 25	1 21	14 6	0 4	2 1	4 53	22 39	2 38	23 32	0 23	1 14	2 43	20 25	0 42	22 52	0 12	18 51	17 0	23 3	22 55	7 22		n.a.
T 31	18s22	22n28	0s16	13s21	0n 9	1s44	5n 5	22n42	2n38	23s31	0s23	1n15	2n43	20n25	0n42	22s52	0n12	18s50	16s59	23n 4	22n55	7n25		n.a.

Julian Day Number = 1670653.5, Delta T = 03h20m44s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'08, Lahiri = - 5°52'08 Julian Calendar 1 Jan. 139 BCE == Greg. Calendar 29 Dec. 140 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

FEBRUARY 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 30 34	9♒25'30	26♊24	26♒ 6	14♓ 7	29♉ 7	12♑41	3°R 2	2°R52	12♑58	21♓46	16°R53	15♊28	28♈17	n.a.	W 1
T 2	8 34 31	10°25'35	9♋15	27°36	14°20	29°23	12°54	3♎ 0	2♌49	13° 0	21°47	16♊51	15°24	28°24	n.a.	T 2
F 3	8 38 27	11°25'38	22°28	29° 0	14°31	29°39	13° 8	2°58	2°46	13° 2	21°48	16°46	15°21	28°31	n.a.	F 3
S 4	8 42 24	12°25'38	6♌ 4	0♓18	14°40	29°57	13°21	2°56	2°44	13° 4	21°49	16°39	15°18	28°37	n.a.	S 4
S 5	8 46 20	13°25'37	19°59	1°31	14°46	0♊14	13°34	2°54	2°41	13° 6	21°50	16°30	15°15	28°44	n.a.	S 5
M 6	8 50 17	14°25'33	4♍11	2°36	14°50	0°32	13°48	2°52	2°39	13° 8	21°51	16°20	15°12	28°51	n.a.	M 6
T 7	8 54 13	15°25'27	18°33	3°35	14°R52	0°50	14° 1	2°50	2°36	13°10	21°52	16°11	15° 9	28°57	n.a.	T 7
W 8	8 58 10	16°25'20	2♎59	4°26	14°51	1° 9	14°14	2°47	2°34	13°12	21°54	16° 3	15° 5	29° 4	n.a.	W 8
T 9	9 2 6	17°25'11	17°24	5° 9	14°47	1°28	14°27	2°45	2°31	13°14	21°55	15°57	15° 2	29°11	n.a.	T 9
F 10	9 6 3	18°24'59	1♏43	5°43	14°42	1°47	14°40	2°42	2°29	13°16	21°56	15°54	14°59	29°17	n.a.	F 10
S 11	9 10 0	19°24'47	15°54	6°10	14°33	2° 7	14°53	2°40	2°26	13°18	21°57	15°D52	14°56	29°24	n.a.	S 11
S 12	9 13 56	20°24'32	29°54	6°27	14°22	2°27	15° 6	2°37	2°24	13°20	21°58	15°53	14°53	29°31	n.a.	S 12
M13	9 17 53	21°24'16	13♐45	6°36	14° 9	2°48	15°19	2°34	2°21	13°22	22° 0	15°R53	14°49	29°37	n.a.	M13
T 14	9 21 49	22°23'58	27°25	6°R37	13°53	3° 8	15°32	2°32	2°19	13°24	22° 1	15°53	14°46	29°44	n.a.	T 14
W15	9 25 46	23°23'38	10♑55	6°29	13°35	3°29	15°44	2°29	2°16	13°26	22° 2	15°50	14°43	29°51	n.a.	W15
T 16	9 29 42	24°23'16	24°15	6°13	13°14	3°51	15°57	2°26	2°14	13°28	22° 3	15°45	14°40	29°57	n.a.	T 16
F 17	9 33 39	25°22'52	7♒24	5°49	12°51	4°13	16°10	2°22	2°12	13°29	22° 5	15°37	14°37	0♉ 4	n.a.	F 17
S 18	9 37 35	26°22'26	20°21	5°19	12°26	4°35	16°22	2°19	2° 9	13°31	22° 6	15°26	14°34	0°11	n.a.	S 18
S 19	9 41 32	27°21'58	3♓ 6	4°42	11°59	4°57	16°35	2°16	2° 7	13°33	22° 7	15°13	14°30	0°18	n.a.	S 19
M20	9 45 29	28°21'27	15°39	4° 0	11°30	5°20	16°47	2°13	2° 5	13°35	22° 9	15° 0	14°27	0°24	n.a.	M20
T 21	9 49 25	29°20'55	27°58	3°14	10°59	5°43	16°59	2° 9	2° 2	13°36	22°10	14°48	14°24	0°31	n.a.	T 21
W22	9 53 22	0♓20'20	10♈ 5	2°25	10°26	6° 6	17°12	2° 6	2° 0	13°38	22°11	14°37	14°21	0°38	n.a.	W22
T 23	9 57 18	1°19'43	22° 3	1°33	9°52	6°30	17°24	2° 2	1°58	13°40	22°13	14°28	14°18	0°44	n.a.	T 23
F 24	10 1 15	2°19'03	3♉54	0°40	9°17	6°54	17°36	1°59	1°56	13°42	22°14	14°22	14°15	0°51	n.a.	F 24
S 25	10 5 11	3°18'21	15°42	29♒48	8°41	7°18	17°48	1°55	1°54	13°43	22°15	14°19	14°11	0°58	n.a.	S 25
S 26	10 9 8	4°17'37	27°33	28°56	8° 4	7°42	18° 0	1°51	1°52	13°45	22°17	14°18	14° 8	1° 4	n.a.	S 26
M27	10 13 4	5°16'50	9♊32	28° 6	7°26	8° 7	18°12	1°48	1°50	13°46	22°18	14°18	14° 5	1°11	n.a.	M27
T 28	10 17 1	6♓16'01	21♊43	27♒19	6♓48	8♊32	18♑23	1♎44	1♌48	13♑48	22♓19	14♊18	14♊ 2	1♉18	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s 6	24n31	0n51	12s37	0n22	1s28	5n16	22n44	2n37	23s29	0s24	1n16	2n43	20n26	0n42	22s52	0n12	18s49	16s59	23n 3	22n55	7n28		n.a.
T 2	17 50	25 20	1 57	11 53	0 36	1 12	5 27	22 47	2 36	23 28	0 24	1 17	2 43	20 26	0 42	22 52	0 12	18 49	16 59	23 3	22 54	7 30		n.a.
F 3	17 33	24 45	2 59	11 11	0 50	0 58	5 39	22 50	2 36	23 27	0 24	1 18	2 44	20 27	0 42	22 52	0 12	18 48	16 59	23 3	22 54	7 33		n.a.
S 4	17 16	22 43	3 52	10 30	1 4	0 44	5 50	22 53	2 35	23 26	0 24	1 19	2 44	20 28	0 42	22 51	0 12	18 47	16 59	23 2	22 53	7 36		n.a.
S 5	16 59	19 17	4 33	9 50	1 18	0 31	6 1	22 56	2 34	23 25	0 24	1 20	2 44	20 28	0 42	22 51	0 12	18 47	16 58	23 1	22 53	7 39		n.a.
M 6	16 41	14 42	4 58	9 13	1 33	0 19	6 13	23 0	2 34	23 23	0 24	1 21	2 44	20 29	0 42	22 51	0 12	18 46	16 58	23 0	22 53	7 42		n.a.
T 7	16 24	9 14	5 4	8 38	1 48	0 8	6 24	23 3	2 33	23 22	0 24	1 22	2 45	20 29	0 42	22 51	0 12	18 45	16 58	22 59	22 52	7 45		n.a.
W 8	16 6	3 15	4 51	8 6	2 2	0n 1	6 34	23 6	2 32	23 21	0 25	1 24	2 45	20 30	0 42	22 51	0 12	18 45	16 58	22 58	22 52	7 48		n.a.
T 9	15 47	2s54	4 20	7 38	2 16	0 10	6 45	23 9	2 31	23 20	0 25	1 25	2 45	20 31	0 42	22 51	0 12	18 44	16 57	22 58	22 52	7 51		n.a.
F 10	15 29	8 53	3 33	7 12	2 29	0 17	6 55	23 13	2 31	23 18	0 25	1 26	2 45	20 31	0 42	22 50	0 12	18 43	16 57	22 57	22 51	7 54		n.a.
S 11	15 10	14 21	2 33	6 51	2 42	0 23	7 6	23 16	2 30	23 17	0 25	1 27	2 45	20 32	0 42	22 50	0 12	18 43	16 57	22 57	22 51	7 57		n.a.
S 12	14 51	19 0	1 24	6 33	2 54	0 28	7 15	23 20	2 29	23 16	0 25	1 29	2 46	20 32	0 42	22 50	0 12	18 42	16 57	22 57	22 51	8 0		n.a.
M13	14 32	22 31	0 11	6 19	3 5	0 32	7 25	23 23	2 29	23 14	0 25	1 30	2 46	20 33	0 42	22 50	0 12	18 41	16 57	22 57	22 50	8 3		n.a.
T 14	14 12	24 42	1s 1	6 10	3 15	0 34	7 34	23 26	2 28	23 13	0 25	1 31	2 46	20 33	0 42	22 50	0 12	18 41	16 56	22 57	22 50	8 6		n.a.
W15	13 53	25 24	2 9	6 5	3 24	0 35	7 42	23 30	2 27	23 12	0 26	1 33	2 46	20 34	0 42	22 49	0 12	18 40	16 56	22 57	22 50	8 9		n.a.
T 16	13 33	24 36	3 9	6 4	3 31	0 34	7 50	23 33	2 26	23 10	0 26	1 34	2 47	20 34	0 42	22 49	0 12	18 39	16 56	22 56	22 49	8 12		n.a.
F 17	13 12	22 27	3 58	6 7	3 37	0 33	7 58	23 37	2 26	23 9	0 26	1 35	2 47	20 35	0 42	22 49	0 12	18 39	16 56	22 56	22 49	8 15		n.a.
S 18	12 52	19 11	4 33	6 15	3 41	0 29	8 5	23 40	2 25	23 8	0 26	1 37	2 47	20 36	0 42	22 49	0 12	18 38	16 56	22 54	22 48	8 18		n.a.
S 19	12 32	15 3	4 54	6 26	3 43	0 25	8 11	23 44	2 24	23 6	0 26	1 38	2 47	20 36	0 42	22 49	0 12	18 37	16 56	22 53	22 48	8 20		n.a.
M20	12 11	10 20	5 1	6 41	3 44	0 19	8 16	23 47	2 24	23 5	0 26	1 40	2 47	20 37	0 42	22 49	0 12	18 37	16 55	22 52	22 48	8 23		n.a.
T 21	11 50	5 18	4 53	6 59	3 42	0 11	8 21	23 51	2 23	23 3	0 26	1 41	2 48	20 37	0 42	22 48	0 12	18 36	16 55	22 50	22 47	8 26		n.a.
W22	11 29	0 8	4 32	7 20	3 39	0 3	8 25	23 54	2 22	23 2	0 27	1 43	2 48	20 38	0 42	22 48	0 12	18 35	16 55	22 49	22 47	8 29		n.a.
T 23	11 7	4n59	4 0	7 43	3 34	0s 7	8 28	23 58	2 21	23 1	0 27	1 45	2 48	20 38	0 42	22 48	0 12	18 35	16 55	22 48	22 47	8 32		n.a.
F 24	10 46	9 53	3 17	8 9	3 27	0 18	8 30	24 1	2 21	22 59	0 27	1 46	2 48	20 39	0 42	22 48	0 12	18 34	16 55	22 47	22 46	8 35		n.a.
S 25	10 24	14 25	2 25	8 35	3 18	0 31	8 31	24 5	2 20	22 58	0 27	1 48	2 48	20 39	0 42	22 48	0 12	18 33	16 55	22 47	22 46	8 38		n.a.
S 26	10 3	18 25	1 28	9 3	3 8	0 44	8 31	24 8	2 19	22 56	0 27	1 49	2 48	20 39	0 42	22 48	0 12	18 33	16 55	22 47	22 45	8 41		n.a.
M27	9 41	21 43	0 25	9 31	2 56	0 59	8 31	24 11	2 19	22 55	0 27	1 51	2 49	20 40	0 42	22 47	0 12	18 32	16 55	22 47	22 45	8 44		n.a.
T 28	9s19	24n 6	0n39	9s59	2n44	1s14	8n29	24n15	2n18	22s53	0s28	1n53	2n49	20n40	0n42	22s47	0n12	18s31	16s54	22n47	22n45	8n47		n.a.

Julian Day Number = 1670684.5, Delta T = 03h20m44s
Ecliptic obliquity = 23°42'45, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'04, Lahiri = - 5°52'04 Julian Calendar 1 Feb. 139 BCE == Greg. Calendar 29 Jan. 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

MARCH 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 20 57	7♓15'10	4♋13	26°R36	6°R10	8♊57	18♑35	1°R40	1°R46	13♑50	22♓21	14°R16	13♊59	1♉24	n.a.	W 1
T 2	10 24 54	8°14'16	17° 6	25♒57	5♓32	9°22	18°47	1♎36	1♌44	13°51	22°22	14♊13	13°55	1°31	n.a.	T 2
F 3	10 28 51	9°13'20	0♌25	25°23	4°54	9°48	18°58	1°32	1°42	13°53	22°23	14° 7	13°52	1°38	n.a.	F 3
S 4	10 32 47	10°12'22	14°12	24°54	4°18	10°14	19°10	1°28	1°40	13°54	22°25	13°59	13°49	1°44	n.a.	S 4
S 5	10 36 44	11°11'21	28°24	24°31	3°42	10°40	19°21	1°24	1°38	13°55	22°26	13°48	13°46	1°51	n.a.	S 5
M 6	10 40 40	12°10'18	12♍57	24°12	3° 7	11° 6	19°32	1°20	1°36	13°57	22°28	13°37	13°43	1°58	n.a.	M 6
T 7	10 44 37	13° 9'12	27°44	24° 0	2°34	11°32	19°43	1°16	1°34	13°58	22°29	13°25	13°40	2° 4	n.a.	T 7
W 8	10 48 33	14° 8'05	12♎37	23°53	2° 2	11°59	19°55	1°11	1°33	14° 0	22°30	13°15	13°36	2°11	n.a.	W 8
T 9	10 52 30	15° 6'56	27°26	23°D51	1°32	12°26	20° 6	1° 7	1°31	14° 1	22°32	13° 8	13°33	2°18	n.a.	T 9
F 10	10 56 26	16° 5'44	12♏ 6	23°55	1° 4	12°53	20°16	1° 3	1°29	14° 2	22°33	13° 3	13°30	2°24	n.a.	F 10
S 11	11 0 23	17° 4'32	26°29	24° 4	0°38	13°20	20°27	0°59	1°28	14° 4	22°35	13° 0	13°27	2°31	n.a.	S 11
S 12	11 4 20	18° 3'17	10♐35	24°18	0°15	13°47	20°38	0°54	1°26	14° 5	22°36	13° 0	13°24	2°38	n.a.	S 12
M13	11 8 16	19° 2'01	24°23	24°38	29♒53	14°15	20°48	0°50	1°25	14° 6	22°38	13° 0	13°21	2°44	n.a.	M13
T 14	11 12 13	20° 0'43	7♑53	25° 1	29°34	14°43	20°59	0°45	1°23	14° 7	22°39	12°59	13°17	2°51	n.a.	T 14
W15	11 16 9	20°59'23	21° 8	25°29	29°17	15°11	21° 9	0°41	1°22	14° 8	22°40	12°56	13°14	2°58	n.a.	W15
T 16	11 20 6	21°58'01	4♒10	26° 2	29° 3	15°39	21°20	0°37	1°20	14°10	22°42	12°51	13°11	3° 5	n.a.	T 16
F 17	11 24 2	22°56'37	16°59	26°38	28°51	16° 7	21°30	0°32	1°19	14°11	22°43	12°42	13° 8	3°11	n.a.	F 17
S 18	11 27 59	23°55'12	29°37	27°19	28°41	16°36	21°40	0°28	1°18	14°12	22°45	12°31	13° 5	3°18	n.a.	S 18
S 19	11 31 55	24°53'44	12♓ 4	28° 3	28°34	17° 4	21°50	0°23	1°16	14°13	22°46	12°19	13° 1	3°25	n.a.	S 19
M20	11 35 52	25°52'15	24°22	28°51	28°30	17°33	22° 0	0°19	1°15	14°14	22°47	12° 5	12°58	3°31	n.a.	M20
T 21	11 39 48	26°50'44	6♈30	29°41	28°D28	18° 2	22° 9	0°14	1°14	14°15	22°49	11°52	12°55	3°38	n.a.	T 21
W22	11 43 45	27°49'10	18°30	0♓36	28°28	18°31	22°19	0° 9	1°13	14°16	22°50	11°41	12°52	3°45	n.a.	W22
T 23	11 47 42	28°47'35	0♉23	1°33	28°30	19° 0	22°28	0° 5	1°12	14°17	22°52	11°32	12°49	3°51	n.a.	T 23
F 24	11 51 38	29°45'57	12°12	2°33	28°35	19°30	22°38	0° 0	1°11	14°18	22°53	11°25	12°46	3°58	n.a.	F 24
S 25	11 55 35	0♈44'18	24° 0	3°36	28°42	19°59	22°47	29♍56	1°10	14°18	22°54	11°22	12°42	4° 5	n.a.	S 25
S 26	11 59 31	1°42'36	5♊50	4°41	28°52	20°29	22°56	29°51	1° 9	14°19	22°56	11°20	12°39	4°11	n.a.	S 26
M27	12 3 28	2°40'52	17°47	5°50	29° 3	20°59	23° 5	29°47	1° 8	14°20	22°57	11°D20	12°36	4°18	n.a.	M27
T 28	12 7 24	3°39'06	29°57	7° 0	29°16	21°29	23°14	29°42	1° 7	14°21	22°59	11°R21	12°33	4°25	n.a.	T 28
W29	12 11 21	4°37'18	12♋24	8°13	29°32	21°59	23°23	29°38	1° 7	14°22	23° 0	11°20	12°30	4°31	n.a.	W29
T 30	12 15 17	5°35'28	25°14	9°29	29°49	22°29	23°31	29°33	1° 6	14°22	23° 1	11°19	12°26	4°38	n.a.	T 30
F 31	12 19 14	6♈33'36	8♌31	10♓46	0♓ 8	23♊ 0	23♑40	29♍29	1♌ 5	14♑23	23♓ 3	11♊15	12♊23	4♉45	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	8s57	25n22	1n43	10s26	2n30	1s31	8n27	24n18	2n17	22s52	0s28	1n54	2n49	20n41	0n42	22s47	0n12	18s31	16s54	22n46	22n44	8n50		n.a.
T 2	8 34	25 19	2 44	10 53	2 16	1 48	8 23	24 22	2 17	22 50	0 28	1 56	2 49	20 41	0 42	22 47	0 12	18 30	16 54	22 46	22 44	8 53		n.a.
F 3	8 12	23 50	3 38	11 18	2 1	2 5	8 19	24 25	2 16	22 49	0 28	1 58	2 49	20 42	0 42	22 47	0 12	18 29	16 54	22 45	22 44	8 56		n.a.
S 4	7 50	20 55	4 21	11 42	1 46	2 23	8 13	24 28	2 15	22 47	0 28	2 0	2 49	20 42	0 42	22 47	0 12	18 29	16 54	22 44	22 43	8 59		n.a.
S 5	7 27	16 41	4 50	12 5	1 30	2 42	8 7	24 31	2 15	22 46	0 28	2 1	2 49	20 42	0 42	22 46	0 12	18 28	16 54	22 43	22 43	9 1		n.a.
M 6	7 4	11 23	5 0	12 26	1 15	3 1	8 0	24 34	2 14	22 45	0 29	2 3	2 49	20 43	0 42	22 46	0 12	18 28	16 54	22 42	22 42	9 4		n.a.
T 7	6 42	5 21	4 51	12 44	1 0	3 20	7 52	24 37	2 13	22 43	0 29	2 5	2 50	20 43	0 42	22 46	0 12	18 27	16 54	22 40	22 42	9 7		n.a.
W 8	6 19	1s 1	4 22	13 1	0 44	3 39	7 44	24 40	2 13	22 42	0 29	2 7	2 50	20 44	0 42	22 46	0 12	18 26	16 54	22 39	22 42	9 10		n.a.
T 9	5 56	7 20	3 36	13 15	0 30	3 58	7 35	24 43	2 12	22 40	0 29	2 8	2 50	20 44	0 42	22 46	0 12	18 26	16 54	22 38	22 41	9 13		n.a.
F 10	5 33	13 10	2 35	13 28	0 15	4 17	7 25	24 46	2 11	22 39	0 29	2 10	2 50	20 44	0 42	22 46	0 12	18 25	16 54	22 37	22 41	9 16		n.a.
S 11	5 10	18 12	1 26	13 38	0 1	4 36	7 15	24 49	2 11	22 37	0 29	2 12	2 50	20 45	0 42	22 46	0 12	18 24	16 54	22 37	22 40	9 19		n.a.
S 12	4 46	22 5	0 13	13 46	0s13	4 54	7 4	24 52	2 10	22 36	0 30	2 14	2 50	20 45	0 42	22 46	0 12	18 24	16 54	22 37	22 40	9 22		n.a.
M13	4 23	24 35	1s 0	13 52	0 26	5 12	6 53	24 55	2 9	22 34	0 30	2 16	2 50	20 45	0 42	22 45	0 12	18 23	16 54	22 37	22 40	9 25		n.a.
T 14	4 0	25 36	2 8	13 56	0 38	5 30	6 41	24 57	2 9	22 33	0 30	2 18	2 50	20 46	0 42	22 45	0 12	18 23	16 54	22 37	22 39	9 28		n.a.
W15	3 37	25 6	3 7	13 58	0 50	5 47	6 29	25 0	2 8	22 31	0 30	2 19	2 50	20 46	0 42	22 45	0 12	18 22	16 53	22 37	22 39	9 31		n.a.
T 16	3 13	23 15	3 55	13 57	1 2	6 3	6 17	25 2	2 7	22 30	0 30	2 21	2 50	20 46	0 42	22 45	0 12	18 21	16 53	22 36	22 38	9 34		n.a.
F 17	2 50	20 13	4 31	13 55	1 13	6 19	6 5	25 5	2 7	22 29	0 30	2 23	2 50	20 46	0 42	22 45	0 12	18 21	16 53	22 35	22 38	9 37		n.a.
S 18	2 26	16 18	4 53	13 50	1 23	6 34	5 52	25 7	2 6	22 27	0 31	2 25	2 50	20 47	0 42	22 45	0 12	18 20	16 53	22 33	22 38	9 39		n.a.
S 19	2 3	11 44	5 0	13 44	1 32	6 48	5 40	25 9	2 5	22 26	0 31	2 27	2 51	20 47	0 42	22 45	0 12	18 20	16 53	22 32	22 37	9 42		n.a.
M20	1 40	6 45	4 54	13 35	1 41	7 1	5 27	25 11	2 5	22 24	0 31	2 29	2 51	20 47	0 42	22 45	0 12	18 19	16 53	22 30	22 37	9 45		n.a.
T 21	1 16	1 34	4 34	13 25	1 50	7 14	5 14	25 14	2 4	22 23	0 31	2 31	2 51	20 47	0 42	22 45	0 12	18 19	16 53	22 28	22 36	9 48		n.a.
W22	0 53	3n37	4 2	13 13	1 57	7 26	5 2	25 16	2 3	22 21	0 31	2 32	2 51	20 48	0 42	22 44	0 12	18 18	16 54	22 27	22 36	9 51		n.a.
T 23	0 29	8 38	3 19	12 59	2 4	7 37	4 49	25 17	2 3	22 20	0 32	2 34	2 51	20 48	0 42	22 44	0 12	18 18	16 54	22 25	22 36	9 54		n.a.
F 24	0 6	13 19	2 28	12 43	2 11	7 47	4 36	25 19	2 2	22 19	0 32	2 36	2 51	20 48	0 42	22 44	0 12	18 17	16 54	22 24	22 35	9 57		n.a.
S 25	0n18	17 31	1 31	12 25	2 17	7 56	4 24	25 21	2 2	22 17	0 32	2 38	2 51	20 48	0 42	22 44	0 12	18 16	16 54	22 24	22 35	10 0		n.a.
S 26	0 41	21 3	0 29	12 6	2 22	8 5	4 11	25 23	2 1	22 16	0 32	2 40	2 51	20 48	0 42	22 44	0 12	18 16	16 54	22 24	22 34	10 3		n.a.
M27	1 5	23 43	0n34	11 44	2 26	8 13	3 59	25 24	2 0	22 15	0 32	2 42	2 51	20 49	0 42	22 44	0 12	18 15	16 54	22 24	22 34	10 6		n.a.
T 28	1 28	25 20	1 38	11 22	2 30	8 19	3 46	25 26	2 0	22 13	0 33	2 43	2 51	20 49	0 42	22 44	0 12	18 15	16 54	22 24	22 34	10 8		n.a.
W29	1 51	25 45	2 38	10 57	2 34	8 25	3 34	25 27	1 59	22 12	0 33	2 45	2 51	20 49	0 41	22 44	0 12	18 14	16 54	22 24	22 33	10 11		n.a.
T 30	2 15	24 48	3 32	10 31	2 36	8 30	3 22	25 28	1 58	22 11	0 33	2 47	2 51	20 49	0 41	22 44	0 12	18 14	16 54	22 24	22 33	10 14		n.a.
F 31	2n38	22n27	4n16	10s 3	2s39	8s35	3n11	25n29	1n58	22s10	0s33	2n49	2n51	20n49	0n41	22s44	0n12	18s13	16s54	22n23	22n32	10n17		n.a.

Julian Day Number = 1670712.5, Delta T = 03h20m43s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°59'00, Lahiri = - 5°52'00 Julian Calendar 1 March 139 BCE == Greg. Calendar 26 Feb. 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

APRIL 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 23 11	7♈31'42	22♌18	12♓ 6	0♓30	23♊30	23♑48	29°R24	1°R 5	14♑24	23♓ 4	11°R 9	12♊20	4♉51	n.a.	S 1
S 2	12 27 7	8°29'45	6♍33	13°28	0°52	24° 1	23°56	29♍20	1♌ 4	14°24	23° 6	11♊ 0	12°17	4°58	n.a.	S 2
M 3	12 31 4	9°27'47	21°14	14°53	1°17	24°32	24° 5	29°15	1° 4	14°25	23° 7	10°51	12°14	5° 5	n.a.	M 3
T 4	12 35 0	10°25'47	6♎14	16°19	1°43	25° 3	24°12	29°11	1° 3	14°25	23° 8	10°42	12°11	5°11	n.a.	T 4
W 5	12 38 57	11°23'45	21°23	17°47	2°11	25°34	24°20	29° 7	1° 3	14°26	23°10	10°34	12° 7	5°18	n.a.	W 5
T 6	12 42 53	12°21'41	6♏32	19°18	2°40	26° 5	24°28	29° 2	1° 3	14°26	23°11	10°28	12° 4	5°25	n.a.	T 6
F 7	12 46 50	13°19'36	21°31	20°50	3°11	26°36	24°35	28°58	1° 2	14°27	23°12	10°24	12° 1	5°31	n.a.	F 7
S 8	12 50 46	14°17'30	6♐12	22°25	3°43	27° 7	24°43	28°54	1° 2	14°27	23°14	10°D23	11°58	5°38	n.a.	S 8
S 9	12 54 43	15°15'22	20°32	24° 1	4°17	27°39	24°50	28°49	1° 2	14°28	23°15	10°23	11°55	5°45	n.a.	S 9
M10	12 58 40	16°13'13	4♑27	25°39	4°52	28°10	24°57	28°45	1° 2	14°28	23°16	10°24	11°52	5°51	n.a.	M10
T 11	13 2 36	17°11'02	18° 0	27°20	5°28	28°42	25° 4	28°41	1° 2	14°28	23°18	10°R25	11°48	5°58	n.a.	T 11
W12	13 6 33	18° 8'51	1♒12	29° 2	6° 5	29°14	25°11	28°37	1°D 2	14°28	23°19	10°24	11°45	6° 5	n.a.	W12
T 13	13 10 29	19° 6'38	14° 5	0♈47	6°44	29°46	25°18	28°33	1° 2	14°29	23°20	10°21	11°42	6°11	n.a.	T 13
F 14	13 14 26	20° 4'23	26°42	2°33	7°23	0♋18	25°24	28°28	1° 2	14°29	23°22	10°16	11°39	6°18	n.a.	F 14
S 15	13 18 22	21° 2'08	9♓ 6	4°22	8° 4	0°50	25°30	28°24	1° 2	14°29	23°23	10° 9	11°36	6°25	n.a.	S 15
S 16	13 22 19	21°59'51	21°20	6°12	8°46	1°22	25°37	28°20	1° 2	14°29	23°24	10° 1	11°32	6°31	n.a.	S 16
M17	13 26 15	22°57'32	3♈26	8° 4	9°29	1°54	25°43	28°17	1° 2	14°29	23°25	9°52	11°29	6°38	n.a.	M17
T 18	13 30 12	23°55'13	15°24	9°59	10°12	2°27	25°49	28°13	1° 3	14°29	23°27	9°43	11°26	6°45	n.a.	T 18
W19	13 34 8	24°52'52	27°17	11°55	10°57	2°59	25°54	28° 9	1° 3	14°30	23°28	9°36	11°23	6°51	n.a.	W19
T 20	13 38 5	25°50'29	9♉ 6	13°53	11°42	3°32	26° 0	28° 5	1° 3	14°R30	23°29	9°30	11°20	6°58	n.a.	T 20
F 21	13 42 2	26°48'06	20°54	15°53	12°28	4° 4	26° 5	28° 1	1° 4	14°30	23°30	9°26	11°17	7° 5	n.a.	F 21
S 22	13 45 58	27°45'41	2♊42	17°55	13°15	4°37	26°10	27°58	1° 4	14°30	23°32	9°24	11°13	7°11	n.a.	S 22
S 23	13 49 55	28°43'14	14°35	19°59	14° 3	5°10	26°15	27°54	1° 5	14°29	23°33	9°D24	11°10	7°18	n.a.	S 23
M24	13 53 51	29°40'46	26°35	22° 4	14°52	5°43	26°20	27°51	1° 6	14°29	23°34	9°25	11° 7	7°25	n.a.	M24
T 25	13 57 48	0♉38'17	8♋46	24°10	15°41	6°16	26°25	27°47	1° 6	14°29	23°35	9°27	11° 4	7°31	n.a.	T 25
W26	14 1 44	1°35'46	21°13	26°18	16°31	6°49	26°30	27°44	1° 7	14°29	23°36	9°28	11° 1	7°38	n.a.	W26
T 27	14 5 41	2°33'14	4♌ 1	28°28	17°22	7°22	26°34	27°40	1° 8	14°29	23°38	9°R29	10°58	7°45	n.a.	T 27
F 28	14 9 38	3°30'41	17°14	0♉38	18°13	7°56	26°38	27°37	1° 9	14°29	23°39	9°28	10°54	7°51	n.a.	F 28
S 29	14 13 34	4°28'06	0♍54	2°49	19° 5	8°29	26°42	27°34	1°10	14°28	23°40	9°25	10°51	7°58	n.a.	S 29
S 30	14 17 31	5♉25'29	15♍ 2	5♉ 0	19♓57	9♋ 2	26♑46	27♍31	1♌11	14♑28	23♓41	9♊22	10♊48	8♉ 5	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 1	18n46	4n48	9s34	2s40	8s38	2n59	25n30	1n57	22s 8	0s33	2n51	2n51	20n49	0n41	22s44	0n12	18s13	16s54	22n22	22n32	10n20		n.a.
S 2	3 24	13 53	5 3	9 3	2 41	8 41	2 48	25 31	1 57	22 7	0 34	2 52	2 51	20 49	0 41	22 44	0 12	18 12	16 54	22 21	22 31	10 23		n.a.
M 3	3 47	8 5	4 59	8 30	2 42	8 42	2 37	25 32	1 56	22 6	0 34	2 54	2 51	20 49	0 41	22 44	0 12	18 12	16 54	22 20	22 31	10 26		n.a.
T 4	4 10	1 42	4 35	7 56	2 41	8 43	2 26	25 32	1 55	22 5	0 34	2 56	2 50	20 49	0 41	22 43	0 12	18 11	16 54	22 18	22 31	10 29		n.a.
W 5	4 33	4s52	3 51	7 20	2 41	8 43	2 15	25 33	1 55	22 3	0 34	2 58	2 50	20 49	0 41	22 43	0 12	18 11	16 54	22 17	22 30	10 32		n.a.
T 6	4 56	11 10	2 51	6 43	2 39	8 42	2 4	25 33	1 54	22 2	0 35	2 59	2 50	20 50	0 41	22 43	0 12	18 11	16 54	22 16	22 30	10 35		n.a.
F 7	5 19	16 45	1 39	6 5	2 37	8 41	1 54	25 34	1 53	22 1	0 35	3 1	2 50	20 50	0 41	22 43	0 12	18 10	16 55	22 16	22 29	10 37		n.a.
S 8	5 42	21 13	0 22	5 25	2 35	8 39	1 44	25 34	1 53	22 0	0 35	3 3	2 50	20 50	0 41	22 43	0 12	18 10	16 55	22 16	22 29	10 40		n.a.
S 9	6 4	24 16	0s54	4 43	2 32	8 36	1 34	25 34	1 52	21 59	0 35	3 4	2 50	20 50	0 41	22 43	0 12	18 9	16 55	22 16	22 28	10 43		n.a.
M10	6 27	25 44	2 6	4 0	2 28	8 32	1 24	25 34	1 52	21 58	0 35	3 6	2 50	20 50	0 41	22 43	0 12	18 9	16 55	22 16	22 28	10 46		n.a.
T 11	6 49	25 35	3 8	3 16	2 24	8 27	1 15	25 33	1 51	21 57	0 36	3 7	2 50	20 50	0 41	22 43	0 12	18 8	16 55	22 16	22 28	10 49		n.a.
W12	7 12	24 0	3 58	2 31	2 19	8 22	1 6	25 33	1 50	21 56	0 36	3 9	2 50	20 50	0 41	22 43	0 12	18 8	16 55	22 16	22 27	10 52		n.a.
T 13	7 34	21 11	4 36	1 44	2 14	8 16	0 57	25 33	1 50	21 55	0 36	3 11	2 50	20 49	0 41	22 43	0 12	18 8	16 55	22 15	22 27	10 55		n.a.
F 14	7 56	17 25	4 59	0 56	2 8	8 9	0 48	25 32	1 49	21 54	0 36	3 12	2 50	20 49	0 41	22 43	0 12	18 7	16 55	22 15	22 26	10 58		n.a.
S 15	8 18	12 58	5 7	0 7	2 2	8 2	0 39	25 31	1 49	21 53	0 37	3 14	2 50	20 49	0 41	22 43	0 12	18 7	16 56	22 14	22 26	11 1		n.a.
S 16	8 40	8 4	5 1	0n44	1 55	7 54	0 31	25 30	1 48	21 52	0 37	3 15	2 49	20 49	0 41	22 43	0 12	18 7	16 56	22 12	22 25	11 3		n.a.
M17	9 2	2 55	4 42	1 35	1 48	7 45	0 23	25 29	1 47	21 51	0 37	3 17	2 49	20 49	0 41	22 43	0 12	18 6	16 56	22 11	22 25	11 6		n.a.
T 18	9 23	2n17	4 10	2 28	1 40	7 36	0 15	25 28	1 47	21 50	0 37	3 18	2 49	20 49	0 41	22 43	0 12	18 6	16 56	22 10	22 25	11 9		n.a.
W19	9 44	7 24	3 28	3 21	1 32	7 26	0 7	25 27	1 46	21 49	0 37	3 20	2 49	20 49	0 41	22 43	0 12	18 5	16 56	22 9	22 24	11 12		n.a.
T 20	10 6	12 13	2 37	4 16	1 23	7 15	0s 0	25 26	1 46	21 48	0 38	3 21	2 49	20 49	0 41	22 43	0 12	18 5	16 56	22 8	22 24	11 15		n.a.
F 21	10 27	16 36	1 39	5 11	1 14	7 4	0 8	25 24	1 45	21 48	0 38	3 22	2 49	20 49	0 41	22 43	0 12	18 5	16 57	22 7	22 23	11 18		n.a.
S 22	10 48	20 21	0 36	6 7	1 5	6 53	0 15	25 22	1 44	21 47	0 38	3 24	2 49	20 49	0 41	22 43	0 12	18 4	16 57	22 7	22 23	11 21		n.a.
S 23	11 9	23 17	0n28	7 3	0 55	6 40	0 21	25 20	1 44	21 46	0 38	3 25	2 49	20 48	0 41	22 43	0 12	18 4	16 57	22 7	22 22	11 24		n.a.
M24	11 29	25 12	1 32	8 0	0 45	6 28	0 28	25 18	1 43	21 45	0 39	3 26	2 48	20 48	0 41	22 43	0 12	18 4	16 57	22 7	22 22	11 26		n.a.
T 25	11 50	25 58	2 33	8 56	0 35	6 14	0 35	25 16	1 43	21 45	0 39	3 27	2 48	20 48	0 41	22 43	0 12	18 4	16 57	22 7	22 21	11 29		n.a.
W26	12 10	25 27	3 28	9 53	0 24	6 0	0 41	25 14	1 42	21 44	0 39	3 29	2 48	20 48	0 41	22 43	0 12	18 3	16 58	22 7	22 21	11 32		n.a.
T 27	12 30	23 35	4 15	10 50	0 14	5 46	0 47	25 12	1 42	21 44	0 39	3 30	2 48	20 48	0 41	22 43	0 12	18 3	16 58	22 7	22 21	11 35		n.a.
F 28	12 50	20 26	4 49	11 46	0 3	5 31	0 53	25 9	1 41	21 43	0 40	3 31	2 48	20 47	0 41	22 43	0 12	18 3	16 58	22 7	22 20	11 38		n.a.
S 29	13 9	16 5	5 9	12 42	0n 7	5 16	0 59	25 6	1 40	21 42	0 40	3 32	2 48	20 47	0 41	22 43	0 12	18 3	16 58	22 7	22 20	11 41		n.a.
S 30	13n29	10n43	5n11	13n37	0n18	5s 0	1s 4	25n 4	1n40	21s42	0s40	3n33	2n47	20n47	0n40	22s43	0n12	18s 2	16s59	22n 6	22n19	11n44		n.a.

Julian Day Number = 1670743.5, Delta T = 03h20m42s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'56, Lahiri = - 5°51'56 Julian Calendar 1 Apr. 139 BCE == Greg. Calendar 29 March 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

MAY 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 21 27	6♉22'51	29♍36	7♉12	20♓50	9♋36	26♑50	27°R28	1♌12	14°R28	23♓42	9°R17	10♊45	8♉11	n.a.	M 1
T 2	14 25 24	7°20'12	14♎33	9°24	21°44	10° 9	26°53	27♍25	1°13	14♑27	23°43	9♊13	10°42	8°18	n.a.	T 2
W 3	14 29 20	8°17'32	29°44	11°35	22°38	10°43	26°57	27°22	1°14	14°27	23°44	9° 9	10°38	8°25	n.a.	W 3
T 4	14 33 17	9°14'51	14♏58	13°46	23°33	11°17	27° 0	27°19	1°15	14°27	23°45	9° 6	10°35	8°31	n.a.	T 4
F 5	14 37 13	10°12'09	0♐ 8	15°56	24°28	11°51	27° 3	27°16	1°16	14°26	23°46	9° 4	10°32	8°38	n.a.	F 5
S 6	14 41 10	11° 9'26	15° 2	18° 5	25°24	12°25	27° 5	27°14	1°17	14°26	23°47	9°D 4	10°29	8°45	n.a.	S 6
S 7	14 45 7	12° 6'43	29°35	20°12	26°20	12°59	27° 8	27°11	1°19	14°25	23°48	9° 5	10°26	8°51	n.a.	S 7
M 8	14 49 3	13° 3'59	13♑42	22°19	27°16	13°33	27°10	27° 9	1°20	14°25	23°49	9° 7	10°23	8°58	n.a.	M 8
T 9	14 53 0	14° 1'15	27°23	24°23	28°13	14° 7	27°13	27° 6	1°21	14°24	23°50	9° 8	10°19	9° 5	n.a.	T 9
W10	14 56 56	14°58'30	10♒39	26°26	29°11	14°41	27°15	27° 4	1°23	14°23	23°51	9°R 9	10°16	9°11	n.a.	W10
T 11	15 0 53	15°55'44	23°33	28°26	0♈ 9	15°15	27°16	27° 2	1°24	14°23	23°52	9° 9	10°13	9°18	n.a.	T 11
F 12	15 4 49	16°52'58	6♓ 7	0♊25	1° 7	15°50	27°18	27° 0	1°26	14°22	23°53	9° 7	10°10	9°25	n.a.	F 12
S 13	15 8 46	17°50'12	18°25	2°21	2° 6	16°24	27°20	26°58	1°27	14°21	23°54	9° 5	10° 7	9°31	n.a.	S 13
S 14	15 12 42	18°47'25	0♈31	4°15	3° 5	16°58	27°21	26°56	1°29	14°21	23°55	9° 2	10° 3	9°38	n.a.	S 14
M15	15 16 39	19°44'38	12°29	6° 7	4° 4	17°33	27°22	26°54	1°31	14°20	23°56	8°59	10° 0	9°45	n.a.	M15
T 16	15 20 36	20°41'50	24°21	7°56	5° 4	18° 8	27°23	26°52	1°32	14°19	23°57	8°56	9°57	9°51	n.a.	T 16
W17	15 24 32	21°39'02	6♉10	9°44	6° 4	18°42	27°24	26°50	1°34	14°18	23°58	8°54	9°54	9°58	n.a.	W17
T 18	15 28 29	22°36'13	17°58	11°28	7° 4	19°17	27°24	26°49	1°36	14°17	23°58	8°52	9°51	10° 5	n.a.	T 18
F 19	15 32 25	23°33'24	29°47	13°11	8° 5	19°52	27°24	26°47	1°38	14°17	23°59	8°51	9°48	10°11	n.a.	F 19
S 20	15 36 22	24°30'35	11♊41	14°50	9° 6	20°27	27°R25	26°46	1°40	14°16	24° 0	8°D51	9°44	10°18	n.a.	S 20
S 21	15 40 18	25°27'45	23°40	16°28	10° 7	21° 2	27°24	26°44	1°42	14°15	24° 1	8°51	9°41	10°25	n.a.	S 21
M22	15 44 15	26°24'55	5♋48	18° 3	11° 8	21°37	27°24	26°43	1°44	14°14	24° 2	8°52	9°38	10°31	n.a.	M22
T 23	15 48 11	27°22'04	18° 8	19°35	12°10	22°12	27°24	26°42	1°46	14°13	24° 2	8°53	9°35	10°38	n.a.	T 23
W24	15 52 8	28°19'13	0♌41	21° 5	13°12	22°47	27°23	26°41	1°48	14°12	24° 3	8°54	9°32	10°45	n.a.	W24
T 25	15 56 5	29°16'21	13°32	22°33	14°15	23°22	27°22	26°40	1°50	14°11	24° 4	8°55	9°29	10°51	n.a.	T 25
F 26	16 0 1	0♊13'28	26°44	23°58	15°17	23°58	27°21	26°39	1°52	14°10	24° 4	8°R55	9°25	10°58	n.a.	F 26
S 27	16 3 58	1°10'35	10♍18	25°20	16°20	24°33	27°20	26°38	1°55	14° 9	24° 5	8°55	9°22	11° 5	n.a.	S 27
S 28	16 7 54	2° 7'42	24°16	26°40	17°23	25° 9	27°19	26°38	1°57	14° 8	24° 6	8°55	9°19	11°11	n.a.	S 28
M29	16 11 51	3° 4'48	8♎37	27°57	18°26	25°44	27°17	26°37	1°59	14° 7	24° 6	8°54	9°16	11°18	n.a.	M29
T 30	16 15 47	4° 1'53	23°19	29°12	19°30	26°20	27°15	26°37	2° 1	14° 6	24° 7	8°54	9°13	11°25	n.a.	T 30
W31	16 19 44	4♊58'58	8♏16	0♋24	20♈33	26♋55	27♑13	26♍36	2♌ 4	14♑ 4	24♓ 8	8♊53	9♊ 9	11♉31	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	13n48	4n38	4n53	14n31	0n28	4s44	1s 9	25n 1	1n39	21s41	0s40	3n34	2n47	20n47	0n40	22s43	0n12	18s 2	16s59	22n 6	22n19	11n46			n.a.
T 2	14 7	1s53	4 15	15 24	0 38	4 27	1 14	24 58	1 39	21 41	0 41	3 35	2 47	20 46	0 40	22 43	0 12	18 2	16 59	22 5	22 18	11 49			n.a.
W 3	14 26	8 24	3 19	16 15	0 48	4 10	1 19	24 54	1 38	21 41	0 41	3 36	2 47	20 46	0 40	22 43	0 12	18 2	16 59	22 4	22 18	11 52			n.a.
T 4	14 44	14 28	2 8	17 4	0 58	3 53	1 24	24 51	1 38	21 40	0 41	3 37	2 47	20 46	0 40	22 44	0 12	18 1	16 59	22 4	22 17	11 55			n.a.
F 5	15 3	19 37	0 49	17 51	1 7	3 35	1 29	24 47	1 37	21 40	0 41	3 38	2 46	20 46	0 40	22 44	0 12	18 1	17 0	22 4	22 17	11 58			n.a.
S 6	15 21	23 24	0s33	18 37	1 15	3 16	1 33	24 44	1 36	21 40	0 42	3 39	2 46	20 45	0 40	22 44	0 12	18 1	17 0	22 4	22 16	12 1			n.a.
S 7	15 39	25 33	1 50	19 20	1 23	2 58	1 37	24 40	1 36	21 39	0 42	3 40	2 46	20 45	0 40	22 44	0 12	18 1	17 0	22 4	22 16	12 4			n.a.
M 8	15 56	25 58	2 59	20 1	1 31	2 39	1 41	24 36	1 35	21 39	0 42	3 41	2 46	20 45	0 40	22 44	0 12	18 1	17 0	22 4	22 16	12 6			n.a.
T 9	16 14	24 46	3 55	20 39	1 37	2 19	1 45	24 31	1 35	21 39	0 42	3 41	2 46	20 44	0 40	22 44	0 12	18 0	17 1	22 4	22 15	12 9			n.a.
W10	16 31	22 12	4 37	21 15	1 44	2 0	1 49	24 27	1 34	21 39	0 43	3 42	2 45	20 44	0 40	22 44	0 12	18 0	17 1	22 4	22 15	12 12			n.a.
T 11	16 48	18 35	5 3	21 49	1 49	1 40	1 53	24 23	1 34	21 39	0 43	3 43	2 45	20 44	0 40	22 44	0 12	18 0	17 1	22 4	22 14	12 15			n.a.
F 12	17 4	14 14	5 14	22 19	1 54	1 19	1 56	24 18	1 33	21 39	0 43	3 44	2 45	20 43	0 40	22 44	0 12	18 0	17 2	22 4	22 14	12 18			n.a.
S 13	17 21	9 23	5 11	22 48	1 58	0 59	1 59	24 13	1 32	21 39	0 43	3 44	2 45	20 43	0 40	22 44	0 12	18 0	17 2	22 4	22 13	12 21			n.a.
S 14	17 37	4 16	4 53	23 13	2 1	0 38	2 2	24 8	1 32	21 39	0 44	3 45	2 45	20 42	0 40	22 44	0 12	18 0	17 2	22 3	22 13	12 23			n.a.
M15	17 52	0n57	4 23	23 36	2 4	0 17	2 5	24 3	1 31	21 39	0 44	3 45	2 44	20 42	0 40	22 44	0 12	18 0	17 2	22 3	22 12	12 26			n.a.
T 16	18 8	6 7	3 42	23 57	2 6	0n 5	2 8	23 58	1 31	21 39	0 44	3 46	2 44	20 42	0 40	22 44	0 12	18 0	17 3	22 3	22 12	12 29			n.a.
W17	18 23	11 2	2 51	24 15	2 7	0 26	2 11	23 53	1 30	21 39	0 45	3 46	2 44	20 41	0 40	22 44	0 12	18 0	17 3	22 2	22 11	12 32			n.a.
T 18	18 38	15 34	1 53	24 31	2 7	0 48	2 13	23 47	1 30	21 39	0 45	3 47	2 44	20 41	0 40	22 45	0 12	18 0	17 3	22 2	22 11	12 35			n.a.
F 19	18 53	19 31	0 50	24 44	2 7	1 10	2 15	23 41	1 29	21 39	0 45	3 47	2 43	20 40	0 40	22 45	0 12	17 59	17 4	22 2	22 10	12 38			n.a.
S 20	19 7	22 42	0n16	24 56	2 6	1 32	2 18	23 36	1 28	21 39	0 45	3 48	2 43	20 40	0 40	22 45	0 12	17 59	17 4	22 2	22 10	12 40			n.a.
S 21	19 21	24 55	1 21	25 5	2 4	1 55	2 20	23 30	1 28	21 40	0 46	3 48	2 43	20 39	0 40	22 45	0 12	17 59	17 4	22 2	22 9	12 43			n.a.
M22	19 34	25 59	2 24	25 12	2 2	2 17	2 21	23 23	1 27	21 40	0 46	3 48	2 43	20 39	0 40	22 45	0 12	17 59	17 4	22 2	22 9	12 46			n.a.
T 23	19 48	25 47	3 21	25 17	1 59	2 40	2 23	23 17	1 27	21 40	0 46	3 48	2 42	20 38	0 40	22 45	0 12	17 59	17 5	22 2	22 8	12 49			n.a.
W24	20 1	24 17	4 10	25 20	1 55	3 3	2 25	23 11	1 26	21 41	0 46	3 49	2 42	20 38	0 40	22 45	0 12	17 59	17 5	22 2	22 8	12 52			n.a.
T 25	20 13	21 31	4 47	25 21	1 51	3 26	2 26	23 4	1 26	21 41	0 47	3 49	2 42	20 37	0 40	22 45	0 12	17 59	17 5	22 2	22 7	12 54			n.a.
F 26	20 26	17 35	5 10	25 20	1 46	3 49	2 28	22 57	1 25	21 42	0 47	3 49	2 42	20 37	0 40	22 45	0 12	17 59	17 6	22 2	22 7	12 57			n.a.
S 27	20 38	12 40	5 17	25 18	1 41	4 12	2 29	22 50	1 24	21 42	0 47	3 49	2 41	20 36	0 40	22 46	0 12	17 59	17 6	22 2	22 7	13 0			n.a.
S 28	20 49	6 59	5 6	25 14	1 34	4 36	2 30	22 43	1 24	21 43	0 47	3 49	2 41	20 36	0 40	22 46	0 12	17 59	17 6	22 2	22 6	13 3			n.a.
M29	21 1	0 46	4 36	25 9	1 27	4 59	2 31	22 36	1 23	21 43	0 48	3 49	2 41	20 35	0 40	22 46	0 12	17 59	17 7	22 2	22 6	13 6			n.a.
T 30	21 12	5s39	3 47	25 3	1 20	5 23	2 32	22 29	1 23	21 44	0 48	3 49	2 41	20 35	0 40	22 46	0 12	17 59	17 7	22 2	22 5	13 9			n.a.
W31	21n22	11s52	2n42	24n55	1n12	5n46	2s32	22n21	1n22	21s45	0s48	3n49	2n40	20n34	0n40	22s46	0n12	18s 0	17s 7	22n 2	22n 5	13n11			n.a.

Julian Day Number = 1670773.5, Delta T = 03h20m41s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'52, Lahiri = - 5°51'52 Julian Calendar 1 May 139 BCE == Greg. Calendar 28 Apr. 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

JUNE 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 23 40	5♊56'04	23♏21	1♋32	21♈37	27♋31	27°R11	26°R36	2♎ 6	14°R 3	24♓ 8	8°R53	9♊ 6	11♉38	n.a.	T 1
F 2	16 27 37	6°53'09	8♐25	2°38	22°42	28° 7	27♑ 9	26♍36	2° 9	14♑ 2	24° 9	8°D53	9° 3	11°45	n.a.	F 2
S 3	16 31 34	7°50'14	23°20	3°41	23°46	28°42	27° 6	26°D36	2°11	14° 1	24° 9	8♊53	9° 0	11°51	n.a.	S 3
S 4	16 35 30	8°47'20	7♑57	4°41	24°50	29°18	27° 3	26°36	2°14	14° 0	24°10	8°R53	8°57	11°58	n.a.	S 4
M 5	16 39 27	9°44'25	22°12	5°38	25°55	29°54	27° 1	26°36	2°16	13°58	24°10	8°53	8°54	12° 5	n.a.	M 5
T 6	16 43 23	10°41'31	6♒ 2	6°32	27° 0	0♎30	26°57	26°36	2°19	13°57	24°11	8°53	8°50	12°11	n.a.	T 6
W 7	16 47 20	11°38'38	19°24	7°22	28° 5	1° 6	26°54	26°37	2°22	13°56	24°11	8°53	8°47	12°18	n.a.	W 7
T 8	16 51 16	12°35'44	2♓22	8° 9	29°11	1°42	26°51	26°37	2°24	13°54	24°12	8°53	8°44	12°25	n.a.	T 8
F 9	16 55 13	13°32'52	14°58	8°52	0♉16	2°18	26°47	26°38	2°27	13°53	24°12	8°D53	8°41	12°31	n.a.	F 9
S 10	16 59 10	14°29'59	27°16	9°31	1°22	2°55	26°43	26°38	2°30	13°52	24°12	8°53	8°38	12°38	n.a.	S 10
S 11	17 3 6	15°27'07	9♈20	10° 6	2°28	3°31	26°39	26°39	2°33	13°50	24°13	8°53	8°35	12°45	n.a.	S 11
M12	17 7 3	16°24'16	21°14	10°38	3°34	4° 7	26°35	26°40	2°36	13°49	24°13	8°54	8°31	12°51	n.a.	M12
T 13	17 10 59	17°21'26	3♉ 4	11° 5	4°40	4°44	26°31	26°41	2°38	13°48	24°13	8°55	8°28	12°58	n.a.	T 13
W14	17 14 56	18°18'36	14°51	11°28	5°46	5°20	26°26	26°42	2°41	13°46	24°14	8°55	8°25	13° 5	n.a.	W14
T 15	17 18 52	19°15'46	26°41	11°46	6°53	5°57	26°22	26°43	2°44	13°45	24°14	8°56	8°22	13°11	n.a.	T 15
F 16	17 22 49	20°12'57	8♊36	12° 0	7°59	6°33	26°17	26°44	2°47	13°43	24°14	8°R56	8°19	13°18	n.a.	F 16
S 17	17 26 45	21°10'09	20°38	12° 9	9° 6	7°10	26°12	26°45	2°50	13°42	24°15	8°56	8°15	13°25	n.a.	S 17
S 18	17 30 42	22° 7'21	2♋49	12°R14	10°13	7°46	26° 7	26°47	2°53	13°40	24°15	8°55	8°12	13°31	n.a.	S 18
M19	17 34 39	23° 4'34	15°11	12°13	11°20	8°23	26° 1	26°48	2°56	13°39	24°15	8°54	8° 9	13°38	n.a.	M19
T 20	17 38 35	24° 1'48	27°46	12° 8	12°28	9° 0	25°56	26°50	2°59	13°37	24°15	8°52	8° 6	13°45	n.a.	T 20
W21	17 42 32	24°59'01	10♎34	11°57	13°35	9°37	25°50	26°51	3° 3	13°36	24°15	8°49	8° 3	13°51	n.a.	W21
T 22	17 46 28	25°56'15	23°36	11°42	14°42	10°14	25°45	26°53	3° 6	13°34	24°15	8°47	8° 0	13°58	n.a.	T 22
F 23	17 50 25	26°53'30	6♍55	11°23	15°50	10°51	25°39	26°55	3° 9	13°33	24°16	8°46	7°56	14° 5	n.a.	F 23
S 24	17 54 21	27°50'45	20°30	10°58	16°58	11°28	25°33	26°57	3°12	13°31	24°16	8°45	7°53	14°11	n.a.	S 24
S 25	17 58 18	28°48'00	4♎21	10°29	18° 6	12° 5	25°27	26°59	3°15	13°30	24°16	8°D45	7°50	14°18	n.a.	S 25
M26	18 2 14	29°45'16	18°30	9°57	19°14	12°42	25°20	27° 1	3°19	13°28	24°16	8°45	7°47	14°25	n.a.	M26
T 27	18 6 11	0♋42'33	2♏54	9°21	20°22	13°19	25°14	27° 3	3°22	13°26	24°16	8°47	7°44	14°31	n.a.	T 27
W28	18 10 8	1°39'50	17°30	8°41	21°30	13°57	25° 8	27° 6	3°25	13°25	24°R16	8°48	7°41	14°38	n.a.	W28
T 29	18 14 4	2°37'07	2♐13	8° 0	22°38	14°34	25° 1	27° 8	3°28	13°23	24°16	8°R49	7°37	14°45	n.a.	T 29
F 30	18 18 1	3♋34'26	16♐59	7♋16	23♉47	15♎11	24♑54	27♍10	3♎32	13♑22	24♓16	8♊49	7♊34	14♉51	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n33	17s27	1n25	24n46	1n 3	6n10	2s33	22n14	1n22	21s45	0s49	3n49	2n40	20n34	0n40	22s46	0n12	18s 0	17s 8	22n 2	22n 4	13n14		n.a.
F 2	21 42	21 55	0 3	24 35	0 54	6 33	2 33	22 6	1 21	21 46	0 49	3 48	2 40	20 33	0 40	22 46	0 12	18 0	17 8	22 2	22 4	13 17		n.a.
S 3	21 52	24 52	1s19	24 24	0 44	6 57	2 33	21 58	1 20	21 47	0 49	3 48	2 40	20 32	0 40	22 46	0 12	18 0	17 8	22 2	22 3	13 20		n.a.
S 4	22 1	26 3	2 35	24 12	0 34	7 21	2 34	21 50	1 20	21 48	0 49	3 48	2 39	20 32	0 39	22 47	0 12	18 0	17 9	22 2	22 3	13 23		n.a.
M 5	22 10	25 27	3 38	23 59	0 23	7 44	2 34	21 42	1 19	21 48	0 50	3 48	2 39	20 31	0 39	22 47	0 12	18 0	17 9	22 2	22 2	13 25		n.a.
T 6	22 18	23 17	4 27	23 45	0 12	8 8	2 34	21 33	1 19	21 49	0 50	3 47	2 39	20 31	0 39	22 47	0 12	18 0	17 9	22 2	22 2	13 28		n.a.
W 7	22 26	19 54	4 59	23 31	0 0	8 32	2 34	21 25	1 18	21 50	0 50	3 47	2 39	20 30	0 39	22 47	0 11	18 0	17 10	22 2	22 1	13 31		n.a.
T 8	22 34	15 38	5 15	23 16	0s12	8 55	2 33	21 16	1 18	21 51	0 50	3 47	2 38	20 29	0 39	22 47	0 11	18 0	17 10	22 2	22 1	13 34		n.a.
F 9	22 41	10 50	5 16	23 0	0 24	9 19	2 33	21 7	1 17	21 52	0 51	3 46	2 38	20 29	0 39	22 47	0 11	18 1	17 10	22 2	22 0	13 36		n.a.
S 10	22 48	5 42	5 1	22 45	0 37	9 42	2 32	20 58	1 17	21 53	0 51	3 46	2 38	20 28	0 39	22 48	0 11	18 1	17 11	22 2	22 0	13 39		n.a.
S 11	22 54	0 27	4 34	22 29	0 51	10 6	2 32	20 49	1 16	21 54	0 51	3 45	2 38	20 27	0 39	22 48	0 11	18 1	17 11	22 2	21 59	13 42		n.a.
M12	23 1	4n45	3 55	22 12	1 5	10 29	2 31	20 40	1 15	21 55	0 51	3 45	2 37	20 27	0 39	22 48	0 11	18 1	17 11	22 2	21 59	13 45		n.a.
T 13	23 6	9 45	3 6	21 56	1 19	10 52	2 30	20 31	1 15	21 56	0 52	3 44	2 37	20 26	0 39	22 48	0 11	18 1	17 12	22 2	21 58	13 48		n.a.
W14	23 11	14 25	2 10	21 40	1 33	11 15	2 29	20 21	1 14	21 57	0 52	3 43	2 37	20 25	0 39	22 48	0 11	18 1	17 12	22 2	21 58	13 50		n.a.
T 15	23 16	18 33	1 7	21 24	1 47	11 38	2 28	20 11	1 14	21 58	0 52	3 43	2 37	20 25	0 39	22 48	0 11	18 2	17 13	22 2	21 57	13 53		n.a.
F 16	23 21	21 57	0 2	21 8	2 2	12 1	2 27	20 2	1 13	22 0	0 52	3 42	2 36	20 24	0 39	22 48	0 11	18 2	17 13	22 3	21 57	13 56		n.a.
S 17	23 25	24 27	1n 4	20 53	2 17	12 23	2 26	19 52	1 13	22 1	0 53	3 41	2 36	20 23	0 39	22 49	0 11	18 2	17 13	22 2	21 56	13 59		n.a.
S 18	23 29	25 49	2 8	20 38	2 31	12 46	2 25	19 42	1 12	22 2	0 53	3 40	2 36	20 22	0 39	22 49	0 11	18 2	17 14	22 2	21 56	14 1		n.a.
M19	23 32	25 56	3 7	20 24	2 46	13 8	2 24	19 31	1 11	22 3	0 53	3 40	2 36	20 22	0 39	22 49	0 11	18 3	17 14	22 2	21 55	14 4		n.a.
T 20	23 35	24 44	3 58	20 10	3 0	13 30	2 22	19 21	1 11	22 5	0 53	3 39	2 35	20 21	0 39	22 49	0 11	18 3	17 14	22 2	21 55	14 7		n.a.
W21	23 37	22 15	4 38	19 57	3 14	13 52	2 21	19 10	1 10	22 6	0 54	3 38	2 35	20 20	0 39	22 49	0 11	18 3	17 15	22 1	21 54	14 10		n.a.
T 22	23 39	18 35	5 5	19 45	3 27	14 13	2 19	19 0	1 10	22 7	0 54	3 37	2 35	20 19	0 39	22 49	0 11	18 3	17 15	22 1	21 53	14 13		n.a.
F 23	23 41	13 57	5 15	19 34	3 40	14 35	2 17	18 49	1 9	22 9	0 54	3 36	2 35	20 19	0 39	22 50	0 11	18 4	17 15	22 1	21 53	14 15		n.a.
S 24	23 42	8 32	5 9	19 24	3 52	14 56	2 15	18 38	1 9	22 10	0 54	3 35	2 34	20 18	0 39	22 50	0 11	18 4	17 16	22 1	21 52	14 18		n.a.
S 25	23 42	2 36	4 45	19 15	4 3	15 17	2 14	18 27	1 8	22 11	0 55	3 34	2 34	20 17	0 39	22 50	0 11	18 4	17 16	22 1	21 52	14 21		n.a.
M26	23 43	3s35	4 3	19 8	4 13	15 37	2 12	18 16	1 7	22 13	0 55	3 33	2 34	20 16	0 39	22 50	0 11	18 4	17 16	22 1	21 51	14 24		n.a.
T 27	23 43	9 43	3 5	19 1	4 22	15 57	2 10	18 5	1 7	22 14	0 55	3 32	2 34	20 16	0 39	22 50	0 11	18 5	17 17	22 1	21 51	14 26		n.a.
W28	23 42	15 25	1 55	18 56	4 30	16 17	2 8	17 53	1 6	22 15	0 55	3 31	2 33	20 15	0 39	22 50	0 11	18 5	17 17	22 1	21 50	14 29		n.a.
T 29	23 41	20 15	0 36	18 53	4 36	16 37	2 6	17 42	1 6	22 17	0 55	3 29	2 33	20 14	0 39	22 51	0 11	18 5	17 18	22 1	21 50	14 32		n.a.
F 30	23n40	23s49	0s45	18n51	4s40	16n56	2s 3	17n30	1n 5	22s18	0s56	3n28	2n33	20n13	0n39	22s51	0n11	18s 6	17s18	22n 1	21n49	14n35		n.a.

Julian Day Number = 1670804.5, Delta T = 03h20m40s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'48, Lahiri = - 5°51'47 Julian Calendar 1 June 139 BCE == Greg. Calendar 29 May 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

JULY 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 57	4♋31'45	1♑40	6°R32	24♉55	15♌49	24°R47	27♍13	3♌35	13°R20	24°R16	8°R48	7♊31	14♉58	n.a.	S 1
S 2	18 25 54	5°29'06	16°10	5♋47	26° 4	16°26	24♑41	27°16	3°39	13♑19	24♓16	8♊45	7°28	15° 5	n.a.	S 2
M 3	18 29 50	6°26'27	0♒22	5° 3	27°13	17° 4	24°34	27°19	3°42	13°17	24°16	8°41	7°25	15°11	n.a.	M 3
T 4	18 33 47	7°23'49	14°11	4°20	28°22	17°41	24°26	27°21	3°45	13°15	24°15	8°37	7°21	15°18	n.a.	T 4
W 5	18 37 44	8°21'13	27°37	3°39	29°31	18°19	24°19	27°24	3°49	13°14	24°15	8°33	7°18	15°25	n.a.	W 5
T 6	18 41 40	9°18'38	10♓38	3° 1	0♊40	18°57	24°12	27°27	3°52	13°12	24°15	8°29	7°15	15°31	n.a.	T 6
F 7	18 45 37	10°16'04	23°16	2°27	1°49	19°34	24° 5	27°30	3°56	13°10	24°15	8°27	7°12	15°38	n.a.	F 7
S 8	18 49 33	11°13'32	5♈36	1°58	2°59	20°12	23°57	27°34	3°59	13° 9	24°15	8°25	7° 9	15°45	n.a.	S 8
S 9	18 53 30	12°11'01	17°40	1°33	4° 8	20°50	23°50	27°37	4° 3	13° 7	24°15	8°D25	7° 6	15°51	n.a.	S 9
M10	18 57 26	13° 8'31	29°34	1°14	5°18	21°28	23°42	27°40	4° 7	13° 6	24°14	8°26	7° 2	15°58	n.a.	M10
T 11	19 1 23	14° 6'03	11♉23	1° 1	6°28	22° 6	23°34	27°44	4°10	13° 4	24°14	8°28	6°59	16° 4	n.a.	T 11
W12	19 5 19	15° 3'37	23°12	0°D54	7°37	22°44	23°27	27°47	4°14	13° 2	24°14	8°30	6°56	16°11	n.a.	W12
T 13	19 9 16	16° 1'12	5♊ 5	0°54	8°47	23°22	23°19	27°51	4°17	13° 1	24°13	8°R31	6°53	16°18	n.a.	T 13
F 14	19 13 13	16°58'49	17° 6	1° 1	9°57	24° 0	23°11	27°55	4°21	12°59	24°13	8°30	6°50	16°24	n.a.	F 14
S 15	19 17 9	17°56'27	29°18	1°16	11° 7	24°38	23° 4	27°58	4°25	12°57	24°13	8°28	6°47	16°31	n.a.	S 15
S 16	19 21 6	18°54'06	11♋43	1°37	12°18	25°17	22°56	28° 2	4°28	12°56	24°12	8°24	6°43	16°38	n.a.	S 16
M17	19 25 2	19°51'47	24°23	2° 5	13°28	25°55	22°48	28° 6	4°32	12°54	24°12	8°19	6°40	16°44	n.a.	M17
T 18	19 28 59	20°49'30	7♌18	2°41	14°38	26°33	22°40	28°10	4°36	12°53	24°12	8°12	6°37	16°51	n.a.	T 18
W19	19 32 55	21°47'14	20°28	3°24	15°49	27°12	22°32	28°14	4°39	12°51	24°11	8° 5	6°34	16°58	n.a.	W19
T 20	19 36 52	22°44'59	3♍51	4°13	16°59	27°50	22°24	28°19	4°43	12°49	24°11	7°58	6°31	17° 4	n.a.	T 20
F 21	19 40 48	23°42'45	17°25	5°10	18°10	28°29	22°16	28°23	4°47	12°48	24°10	7°52	6°27	17°11	n.a.	F 21
S 22	19 44 45	24°40'32	1♎11	6°13	19°21	29° 7	22° 9	28°27	4°50	12°46	24°10	7°47	6°24	17°18	n.a.	S 22
S 23	19 48 42	25°38'21	15° 6	7°22	20°32	29°46	22° 1	28°32	4°54	12°45	24° 9	7°45	6°21	17°24	n.a.	S 23
M24	19 52 38	26°36'11	29° 9	8°37	21°43	0♍25	21°53	28°36	4°58	12°43	24° 9	7°D45	6°18	17°31	n.a.	M24
T 25	19 56 35	27°34'02	13♏19	9°58	22°54	1° 4	21°45	28°41	5° 1	12°41	24° 8	7°45	6°15	17°38	n.a.	T 25
W26	20 0 31	28°31'55	27°35	11°24	24° 5	1°42	21°37	28°45	5° 5	12°40	24° 8	7°46	6°12	17°44	n.a.	W26
T 27	20 4 28	29°29'49	11♐55	12°56	25°16	2°21	21°30	28°50	5° 9	12°38	24° 7	7°R47	6° 8	17°51	n.a.	T 27
F 28	20 8 24	0♌27'45	26°16	14°31	26°27	3° 0	21°22	28°55	5°13	12°37	24° 6	7°45	6° 5	17°58	n.a.	F 28
S 29	20 12 21	1°25'42	10♑34	16°11	27°38	3°39	21°14	28°59	5°16	12°35	24° 6	7°41	6° 2	18° 4	n.a.	S 29
S 30	20 16 17	2°23'41	24°43	17°54	28°50	4°18	21° 7	29° 4	5°20	12°34	24° 5	7°35	5°59	18°11	n.a.	S 30
M31	20 20 14	3♌21'41	8♒40	19♋41	0♋ 1	4♍57	20♑59	29♍ 9	5♌24	12♑32	24♓ 5	7♊27	5♊56	18♉18	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n38	25s45	2s 2	18n50	4s43	17n15	2s 1	17n18	1n 5	22s20	0s56	3n27	2n33	20n12	0n39	22s51	0n11	18s 6	17s18	22n 1	21n49	14n37		n.a.
S 2	23 36	25 53	3 11	18 51	4 44	17 34	1 59	17 6	1 4	22 21	0 56	3 26	2 32	20 11	0 39	22 51	0 11	18 6	17 19	22 1	21 48	14 40		n.a.
M 3	23 33	24 18	4 6	18 53	4 44	17 52	1 56	16 54	1 3	22 23	0 56	3 24	2 32	20 11	0 39	22 51	0 11	18 7	17 19	22 0	21 48	14 43		n.a.
T 4	23 30	21 18	4 45	18 57	4 41	18 10	1 54	16 42	1 3	22 24	0 57	3 23	2 32	20 10	0 39	22 51	0 11	18 7	17 19	22 0	21 47	14 45		n.a.
W 5	23 27	17 14	5 7	19 3	4 37	18 28	1 51	16 30	1 2	22 26	0 57	3 21	2 32	20 9	0 39	22 52	0 11	18 8	17 20	21 59	21 47	14 48		n.a.
T 6	23 23	12 28	5 13	19 9	4 31	18 45	1 49	16 18	1 2	22 27	0 57	3 20	2 31	20 8	0 39	22 52	0 11	18 8	17 20	21 58	21 46	14 51		n.a.
F 7	23 19	7 19	5 3	19 17	4 24	19 2	1 46	16 5	1 1	22 29	0 57	3 18	2 31	20 7	0 39	22 52	0 11	18 8	17 20	21 58	21 46	14 54		n.a.
S 8	23 14	2 1	4 39	19 27	4 15	19 18	1 44	15 52	1 1	22 30	0 57	3 17	2 31	20 6	0 39	22 52	0 11	18 9	17 21	21 58	21 45	14 56		n.a.
S 9	23 9	3n17	4 3	19 38	4 5	19 34	1 41	15 40	1 0	22 32	0 57	3 15	2 31	20 6	0 39	22 52	0 11	18 9	17 21	21 58	21 45	14 59		n.a.
M10	23 3	8 23	3 17	19 50	3 53	19 49	1 38	15 27	0 59	22 33	0 58	3 14	2 30	20 5	0 39	22 53	0 11	18 10	17 21	21 58	21 44	15 2		n.a.
T 11	22 57	13 10	2 23	20 2	3 40	20 4	1 35	15 14	0 59	22 35	0 58	3 12	2 30	20 4	0 39	22 53	0 11	18 10	17 22	21 58	21 43	15 5		n.a.
W12	22 51	17 27	1 23	20 16	3 26	20 18	1 33	15 1	0 58	22 36	0 58	3 11	2 30	20 3	0 39	22 53	0 11	18 10	17 22	21 58	21 43	15 7		n.a.
T 13	22 44	21 5	0 19	20 31	3 12	20 32	1 30	14 47	0 58	22 38	0 58	3 9	2 30	20 2	0 39	22 53	0 11	18 11	17 22	21 58	21 42	15 10		n.a.
F 14	22 37	23 51	0n47	20 46	2 57	20 46	1 27	14 34	0 57	22 39	0 58	3 7	2 30	20 1	0 39	22 53	0 11	18 11	17 23	21 58	21 42	15 13		n.a.
S 15	22 30	25 33	1 51	21 2	2 41	20 59	1 24	14 21	0 57	22 41	0 58	3 6	2 29	20 0	0 39	22 53	0 11	18 12	17 23	21 58	21 41	15 15		n.a.
S 16	22 22	26 1	2 51	21 17	2 25	21 11	1 21	14 7	0 56	22 42	0 59	3 4	2 29	19 59	0 39	22 54	0 11	18 12	17 23	21 57	21 41	15 18		n.a.
M17	22 13	25 8	3 43	21 33	2 8	21 23	1 18	13 54	0 55	22 44	0 59	3 2	2 29	19 59	0 39	22 54	0 11	18 13	17 24	21 57	21 40	15 21		n.a.
T 18	22 5	22 55	4 25	21 49	1 52	21 34	1 15	13 40	0 55	22 45	0 59	3 0	2 29	19 58	0 39	22 54	0 11	18 13	17 24	21 55	21 40	15 23		n.a.
W19	21 56	19 28	4 54	22 5	1 36	21 45	1 12	13 26	0 54	22 47	0 59	2 58	2 28	19 57	0 39	22 54	0 11	18 14	17 24	21 54	21 39	15 26		n.a.
T 20	21 46	14 58	5 8	22 19	1 19	21 55	1 9	13 12	0 54	22 48	0 59	2 56	2 28	19 56	0 39	22 54	0 11	18 14	17 25	21 53	21 39	15 29		n.a.
F 21	21 36	9 41	5 4	22 33	1 3	22 5	1 6	12 58	0 53	22 49	0 59	2 55	2 28	19 55	0 39	22 54	0 11	18 14	17 25	21 52	21 38	15 32		n.a.
S 22	21 26	3 51	4 43	22 46	0 48	22 14	1 3	12 44	0 52	22 51	0 59	2 53	2 28	19 54	0 39	22 55	0 11	18 15	17 25	21 51	21 38	15 34		n.a.
S 23	21 15	2s14	4 6	22 58	0 32	22 23	1 0	12 29	0 52	22 52	1 0	2 51	2 28	19 53	0 39	22 55	0 11	18 15	17 26	21 51	21 37	15 37		n.a.
M24	21 4	8 17	3 13	23 8	0 18	22 31	0 57	12 15	0 51	22 54	1 0	2 49	2 27	19 52	0 39	22 55	0 11	18 16	17 26	21 51	21 36	15 40		n.a.
T 25	20 53	13 59	2 8	23 16	0 4	22 38	0 53	12 1	0 51	22 55	1 0	2 47	2 27	19 51	0 39	22 55	0 11	18 16	17 26	21 51	21 36	15 42		n.a.
W26	20 41	18 58	0 55	23 23	0n10	22 44	0 50	11 46	0 50	22 56	1 0	2 45	2 27	19 50	0 39	22 55	0 11	18 17	17 27	21 51	21 35	15 45		n.a.
T 27	20 29	22 51	0s22	23 27	0 22	22 51	0 47	11 31	0 50	22 58	1 0	2 43	2 27	19 50	0 39	22 55	0 11	18 17	17 27	21 51	21 35	15 48		n.a.
F 28	20 17	25 17	1 38	23 29	0 34	22 56	0 44	11 17	0 49	22 59	1 0	2 40	2 27	19 49	0 39	22 56	0 11	18 18	17 27	21 51	21 34	15 50		n.a.
S 29	20 4	26 3	2 47	23 28	0 45	23 1	0 41	11 2	0 48	23 0	1 0	2 38	2 26	19 48	0 39	22 56	0 11	18 18	17 27	21 51	21 34	15 53		n.a.
S 30	19 51	25 6	3 44	23 25	0 55	23 5	0 38	10 47	0 48	23 2	1 0	2 36	2 26	19 47	0 39	22 56	0 11	18 19	17 28	21 50	21 33	15 56		n.a.
M31	19n38	22s36	4s28	23n19	1n 5	23n 8	0s34	10n32	0n47	23s 3	1s 0	2n34	2n26	19n46	0n39	22s56	0n11	18s19	17s28	21n48	21n33	15n58		n.a.

Julian Day Number = 1670834.5, Delta T = 03h20m39s
Ecliptic obliquity = 23°42'46, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'44, Lahiri = - 5°51'43 Julian Calendar 1 July 139 BCE == Greg. Calendar 28 June 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

AUGUST 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 24 11	4♌19'43	22♒19	21♋30	1♋13	5♍36	20°R52	29♍14	5♌28	12°R31	24°R 4	7°R18	5♊53	18♉24	n.a.	T 1
W 2	20 28 7	5°17'47	5♓39	23°21	2°25	6°16	20♑44	29°19	5°31	12♑29	24♓ 3	7♊ 8	5°49	18°31	n.a.	W 2
T 3	20 32 4	6°15'53	18°37	25°14	3°36	6°55	20°37	29°25	5°35	12°28	24° 3	6°59	5°46	18°38	n.a.	T 3
F 4	20 36 0	7°14'00	1♈15	27° 8	4°48	7°34	20°30	29°30	5°39	12°26	24° 2	6°52	5°43	18°44	n.a.	F 4
S 5	20 39 57	8°12'10	13°34	29° 3	6° 0	8°14	20°23	29°35	5°43	12°25	24° 1	6°47	5°40	18°51	n.a.	S 5
S 6	20 43 53	9°10'22	25°38	0♌59	7°12	8°53	20°16	29°40	5°46	12°23	24° 0	6°44	5°37	18°57	n.a.	S 6
M 7	20 47 50	10° 8'36	7♉33	2°55	8°24	9°33	20° 9	29°46	5°50	12°22	24° 0	6°D43	5°33	19° 4	n.a.	M 7
T 8	20 51 46	11° 6'52	19°22	4°52	9°36	10°12	20° 2	29°51	5°54	12°21	23°59	6°43	5°30	19°11	n.a.	T 8
W 9	20 55 43	12° 5'10	1♊11	6°48	10°49	10°52	19°55	29°57	5°58	12°19	23°58	6°R44	5°27	19°17	n.a.	W 9
T 10	20 59 40	13° 3'31	13° 6	8°44	12° 1	11°31	19°48	0♎ 2	6° 1	12°18	23°57	6°44	5°24	19°24	n.a.	T 10
F 11	21 3 36	14° 1'54	25°11	10°39	13°13	12°11	19°42	0° 8	6° 5	12°17	23°56	6°42	5°21	19°31	n.a.	F 11
S 12	21 7 33	15° 0'19	7♋31	12°34	14°26	12°51	19°35	0°14	6° 9	12°15	23°55	6°38	5°18	19°37	n.a.	S 12
S 13	21 11 29	15°58'45	20° 9	14°28	15°38	13°31	19°29	0°19	6°13	12°14	23°55	6°31	5°14	19°44	n.a.	S 13
M14	21 15 26	16°57'15	3♌ 6	16°22	16°51	14°11	19°23	0°25	6°16	12°13	23°54	6°22	5°11	19°51	n.a.	M14
T 15	21 19 22	17°55'46	16°23	18°14	18° 4	14°51	19°17	0°31	6°20	12°12	23°53	6°11	5° 8	19°57	n.a.	T 15
W16	21 23 19	18°54'19	29°57	20° 6	19°17	15°31	19°11	0°37	6°24	12°10	23°52	6° 0	5° 5	20° 4	n.a.	W16
T 17	21 27 15	19°52'54	13♍45	21°56	20°29	16°11	19° 5	0°43	6°27	12° 9	23°51	5°48	5° 2	20°11	n.a.	T 17
F 18	21 31 12	20°51'30	27°44	23°46	21°42	16°51	19° 0	0°49	6°31	12° 8	23°50	5°38	4°59	20°17	n.a.	F 18
S 19	21 35 8	21°50'09	11♎50	25°34	22°55	17°31	18°54	0°55	6°35	12° 7	23°49	5°31	4°55	20°24	n.a.	S 19
S 20	21 39 5	22°48'50	25°59	27°22	24° 8	18°11	18°49	1° 1	6°38	12° 6	23°48	5°26	4°52	20°31	n.a.	S 20
M21	21 43 2	23°47'32	10♏ 8	29° 8	25°21	18°52	18°44	1° 7	6°42	12° 4	23°47	5°24	4°49	20°37	n.a.	M21
T 22	21 46 58	24°46'16	24°16	0♍54	26°34	19°32	18°39	1°13	6°46	12° 3	23°46	5°D23	4°46	20°44	n.a.	T 22
W23	21 50 55	25°45'02	8♐21	2°38	27°48	20°12	18°34	1°20	6°49	12° 2	23°45	5°R23	4°43	20°51	n.a.	W23
T 24	21 54 51	26°43'49	22°23	4°22	29° 1	20°53	18°29	1°26	6°53	12° 1	23°44	5°23	4°39	20°57	n.a.	T 24
F 25	21 58 48	27°42'39	6♑20	6° 4	0♌14	21°33	18°25	1°32	6°57	12° 0	23°43	5°20	4°36	21° 4	n.a.	F 25
S 26	22 2 44	28°41'30	20°12	7°46	1°28	22°14	18°21	1°39	7° 0	11°59	23°42	5°15	4°33	21°10	n.a.	S 26
S 27	22 6 41	29°40'24	3♒56	9°26	2°41	22°55	18°16	1°45	7° 4	11°58	23°41	5° 6	4°30	21°17	n.a.	S 27
M28	22 10 37	0♍39'19	17°30	11° 6	3°55	23°35	18°12	1°51	7° 7	11°57	23°40	4°55	4°27	21°24	n.a.	M28
T 29	22 14 34	1°38'16	0♓50	12°44	5° 8	24°16	18° 9	1°58	7°11	11°56	23°39	4°43	4°24	21°30	n.a.	T 29
W30	22 18 31	2°37'15	13°55	14°22	6°22	24°57	18° 5	2° 4	7°14	11°55	23°38	4°30	4°20	21°37	n.a.	W30
T 31	22 22 27	3♍36'17	26♓43	15♍59	7♌36	25♍38	18♑ 2	2♎11	7♌18	11♑55	23♓37	4♊17	4♊17	21♉44	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	19n24	18s52	4s55	23n10	1n13	23n11	0s31	10n17	0n47	23s 4	1s 0	2n32	2n26	19n45	0n39	22s56	0n11	18s20	17s28	21n47	21n32	16n 1		n.a.	T 1
W 2	19 10	14 15	5 5	22 59	1 20	23 13	0 28	10 2	0 46	23 5	1 1	2 30	2 26	19 44	0 39	22 56	0 11	18 21	17 29	21 45	21 31	16 4		n.a.	W 2
T 3	18 55	9 7	4 59	22 45	1 27	23 15	0 25	9 46	0 45	23 7	1 1	2 27	2 25	19 43	0 39	22 57	0 11	18 21	17 29	21 44	21 31	16 6		n.a.	T 3
F 4	18 40	3 44	4 38	22 29	1 32	23 16	0 22	9 31	0 45	23 8	1 1	2 25	2 25	19 42	0 39	22 57	0 11	18 22	17 29	21 42	21 30	16 9		n.a.	F 4
S 5	18 25	1n40	4 5	22 10	1 37	23 16	0 19	9 16	0 44	23 9	1 1	2 23	2 25	19 41	0 39	22 57	0 11	18 22	17 29	21 41	21 30	16 12		n.a.	S 5
S 6	18 10	6 54	3 21	21 48	1 41	23 15	0 16	9 0	0 44	23 10	1 1	2 21	2 25	19 40	0 39	22 57	0 11	18 23	17 30	21 41	21 29	16 14		n.a.	S 6
M 7	17 54	11 50	2 29	21 24	1 44	23 14	0 13	8 45	0 43	23 11	1 1	2 18	2 25	19 39	0 39	22 57	0 11	18 23	17 30	21 41	21 29	16 17		n.a.	M 7
T 8	17 38	16 18	1 31	20 59	1 46	23 12	0 9	8 29	0 42	23 12	1 1	2 16	2 25	19 38	0 39	22 57	0 11	18 24	17 30	21 41	21 28	16 19		n.a.	T 8
W 9	17 22	20 9	0 30	20 31	1 47	23 10	0 6	8 13	0 42	23 13	1 1	2 14	2 24	19 37	0 39	22 57	0 11	18 24	17 30	21 41	21 27	16 22		n.a.	W 9
T 10	17 5	23 11	0n34	20 1	1 48	23 6	0 3	7 57	0 41	23 14	1 1	2 11	2 24	19 37	0 39	22 58	0 11	18 25	17 31	21 41	21 27	16 25		n.a.	T 10
F 11	16 48	25 14	1 37	19 30	1 48	23 3	0 0	7 41	0 41	23 15	1 1	2 9	2 24	19 36	0 39	22 58	0 11	18 25	17 31	21 41	21 26	16 27		n.a.	F 11
S 12	16 31	26 6	2 36	18 57	1 47	22 58	0n 3	7 26	0 40	23 16	1 1	2 6	2 24	19 35	0 39	22 58	0 11	18 26	17 31	21 40	21 26	16 30		n.a.	S 12
S 13	16 14	25 38	3 29	18 22	1 46	22 53	0 6	7 10	0 39	23 17	1 1	2 4	2 24	19 34	0 39	22 58	0 11	18 27	17 31	21 39	21 25	16 33		n.a.	S 13
M14	15 56	23 47	4 13	17 46	1 45	22 47	0 9	6 53	0 39	23 18	1 1	2 1	2 24	19 33	0 39	22 58	0 11	18 27	17 32	21 37	21 25	16 35		n.a.	M14
T 15	15 38	20 37	4 44	17 9	1 42	22 40	0 12	6 37	0 38	23 19	1 1	1 59	2 23	19 32	0 39	22 58	0 11	18 28	17 32	21 35	21 24	16 38		n.a.	T 15
W16	15 20	16 17	5 0	16 31	1 40	22 33	0 14	6 21	0 38	23 20	1 1	1 56	2 23	19 31	0 39	22 58	0 11	18 28	17 32	21 33	21 23	16 40		n.a.	W16
T 17	15 1	11 3	4 59	15 52	1 36	22 25	0 17	6 5	0 37	23 21	1 1	1 54	2 23	19 30	0 39	22 58	0 11	18 29	17 32	21 31	21 23	16 43		n.a.	T 17
F 18	14 42	5 11	4 40	15 13	1 33	22 16	0 20	5 48	0 36	23 22	1 1	1 51	2 23	19 29	0 39	22 59	0 11	18 29	17 32	21 29	21 22	16 46		n.a.	F 18
S 19	14 23	1s 0	4 4	14 32	1 29	22 7	0 23	5 32	0 36	23 22	1 1	1 49	2 23	19 28	0 39	22 59	0 11	18 30	17 33	21 28	21 22	16 48		n.a.	S 19
S 20	14 4	7 10	3 12	13 51	1 25	21 57	0 26	5 16	0 35	23 23	1 1	1 46	2 23	19 27	0 39	22 59	0 11	18 30	17 33	21 27	21 21	16 51		n.a.	S 20
M21	13 45	12 59	2 9	13 9	1 20	21 46	0 28	4 59	0 35	23 24	1 1	1 44	2 23	19 26	0 39	22 59	0 11	18 31	17 33	21 27	21 21	16 53		n.a.	M21
T 22	13 25	18 6	0 59	12 27	1 15	21 35	0 31	4 43	0 34	23 24	1 1	1 41	2 23	19 26	0 39	22 59	0 10	18 32	17 33	21 27	21 20	16 56		n.a.	T 22
W23	13 5	22 12	0s16	11 44	1 10	21 23	0 34	4 26	0 33	23 25	1 1	1 38	2 22	19 25	0 39	22 59	0 10	18 32	17 33	21 27	21 19	16 59		n.a.	W23
T 24	12 45	24 58	1 29	11 1	1 4	21 11	0 36	4 9	0 33	23 26	1 1	1 36	2 22	19 24	0 39	22 59	0 10	18 33	17 33	21 27	21 19	17 1		n.a.	T 24
F 25	12 24	26 9	2 36	10 18	0 59	20 58	0 39	3 53	0 32	23 26	1 1	1 33	2 22	19 23	0 39	22 59	0 10	18 33	17 34	21 26	21 18	17 4		n.a.	F 25
S 26	12 4	25 41	3 33	9 34	0 53	20 44	0 41	3 36	0 32	23 27	1 1	1 30	2 22	19 22	0 39	23 0	0 10	18 34	17 34	21 25	21 18	17 6		n.a.	S 26
S 27	11 43	23 39	4 18	8 50	0 47	20 30	0 44	3 19	0 31	23 27	1 1	1 28	2 22	19 21	0 39	23 0	0 10	18 34	17 34	21 24	21 17	17 9		n.a.	S 27
M28	11 22	20 18	4 47	8 7	0 40	20 15	0 46	3 2	0 30	23 28	1 1	1 25	2 22	19 20	0 39	23 0	0 10	18 35	17 34	21 22	21 16	17 12		n.a.	M28
T 29	11 1	15 57	4 59	7 23	0 34	19 59	0 48	2 45	0 30	23 28	1 1	1 22	2 22	19 19	0 39	23 0	0 10	18 35	17 34	21 19	21 16	17 14		n.a.	T 29
W30	10 39	10 56	4 56	6 39	0 27	19 43	0 51	2 28	0 29	23 29	1 1	1 20	2 22	19 18	0 39	23 0	0 10	18 36	17 34	21 17	21 15	17 17		n.a.	W30
T 31	10n18	5s34	4s38	5n54	0n21	19n26	0n53	2n11	0n28	23s29	1s 1	1n17	2n21	19n17	0n39	23s 0	0n10	18s36	17s34	21n15	21n15	17n19		n.a.	T 31

Julian Day Number = 1670865.5, Delta T = 03h20m38s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'40, Lahiri = - 5°51'39 Julian Calendar 1 Aug. 139 BCE == Greg. Calendar 29 July 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

SEPTEMBER 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 26 24	4♍35'20	9♈14	17♍35	8♌49	26♍19	17°R58	2♎18	7♌21	11°R54	23°R36	4°R 7	4♊14	21♉50	n.a.	F 1
S 2	22 30 20	5°34'26	21°29	19°10	10° 3	27° 0	17♏55	2°24	7°25	11♏53	23♓35	3♊58	4°11	21°57	n.a.	S 2
S 3	22 34 17	6°33'34	3♉31	20°44	11°17	27°41	17°53	2°31	7°28	11°52	23°34	3°53	4° 8	22° 4	n.a.	S 3
M 4	22 38 13	7°32'45	15°24	22°18	12°31	28°22	17°50	2°38	7°31	11°51	23°33	3°50	4° 4	22°10	n.a.	M 4
T 5	22 42 10	8°31'58	27°12	23°50	13°45	29° 3	17°47	2°44	7°35	11°51	23°31	3°49	4° 1	22°17	n.a.	T 5
W 6	22 46 6	9°31'14	9♊ 1	25°22	14°59	29°44	17°45	2°51	7°38	11°50	23°30	3°49	3°58	22°24	n.a.	W 6
T 7	22 50 3	10°30'32	20°55	26°53	16°13	0♎25	17°43	2°58	7°41	11°49	23°29	3°49	3°55	22°30	n.a.	T 7
F 8	22 54 0	11°29'52	3♋ 2	28°24	17°27	1° 7	17°41	3° 5	7°45	11°49	23°28	3°47	3°52	22°37	n.a.	F 8
S 9	22 57 56	12°29'15	15°24	29°53	18°41	1°48	17°39	3°11	7°48	11°48	23°27	3°44	3°49	22°44	n.a.	S 9
S 10	23 1 53	13°28'40	28° 8	1♎22	19°56	2°30	17°38	3°18	7°51	11°48	23°26	3°37	3°45	22°50	n.a.	S 10
M11	23 5 49	14°28'08	11♌15	2°49	21°10	3°11	17°37	3°25	7°54	11°47	23°25	3°28	3°42	22°57	n.a.	M11
T 12	23 9 46	15°27'37	24°47	4°16	22°24	3°53	17°36	3°32	7°58	11°46	23°24	3°17	3°39	23° 4	n.a.	T 12
W13	23 13 42	16°27'09	8♍41	5°42	23°39	4°34	17°35	3°39	8° 1	11°46	23°22	3° 5	3°36	23°10	n.a.	W13
T 14	23 17 39	17°26'43	22°53	7° 8	24°53	5°16	17°34	3°46	8° 4	11°46	23°21	2°53	3°33	23°17	n.a.	T 14
F 15	23 21 35	18°26'19	7♎19	8°32	26° 8	5°58	17°33	3°53	8° 7	11°45	23°20	2°43	3°30	23°23	n.a.	F 15
S 16	23 25 32	19°25'58	21°52	9°56	27°22	6°40	17°33	4° 0	8°10	11°45	23°19	2°35	3°26	23°30	n.a.	S 16
S 17	23 29 28	20°25'38	6♏24	11°18	28°37	7°21	17°D33	4° 7	8°13	11°44	23°18	2°30	3°23	23°37	n.a.	S 17
M18	23 33 25	21°25'20	20°51	12°40	29°51	8° 3	17°33	4°14	8°16	11°44	23°17	2°28	3°20	23°43	n.a.	M18
T 19	23 37 22	22°25'04	5♐ 9	14° 0	1♍ 6	8°45	17°34	4°21	8°19	11°44	23°16	2°D28	3°17	23°50	n.a.	T 19
W20	23 41 18	23°24'49	19°16	15°19	2°21	9°27	17°34	4°28	8°22	11°44	23°14	2°R28	3°14	23°57	n.a.	W20
T 21	23 45 15	24°24'37	3♏11	16°37	3°35	10° 9	17°35	4°35	8°25	11°43	23°13	2°28	3°10	24° 3	n.a.	T 21
F 22	23 49 11	25°24'26	16°54	17°54	4°50	10°52	17°36	4°42	8°28	11°43	23°12	2°26	3° 7	24°10	n.a.	F 22
S 23	23 53 8	26°24'17	0♒27	19°10	6° 5	11°34	17°37	4°49	8°30	11°43	23°11	2°21	3° 4	24°17	n.a.	S 23
S 24	23 57 4	27°24'10	13°48	20°24	7°20	12°16	17°38	4°56	8°33	11°43	23°10	2°14	3° 1	24°23	n.a.	S 24
M25	0 1 1	28°24'04	26°57	21°36	8°35	12°58	17°40	5° 4	8°36	11°43	23° 9	2° 5	2°58	24°30	n.a.	M25
T 26	0 4 57	29°24'01	9♓55	22°47	9°50	13°41	17°41	5°11	8°39	11°43	23° 7	1°54	2°55	24°37	n.a.	T 26
W27	0 8 54	0♎23'59	22°40	23°55	11° 4	14°23	17°43	5°18	8°41	11°D43	23° 6	1°42	2°51	24°43	n.a.	W27
T 28	0 12 51	1°23'59	5♈12	25° 2	12°19	15° 6	17°45	5°25	8°44	11°43	23° 5	1°31	2°48	24°50	n.a.	T 28
F 29	0 16 47	2°24'01	17°32	26° 6	13°34	15°48	17°48	5°32	8°47	11°43	23° 4	1°22	2°45	24°56	n.a.	F 29
S 30	0 20 44	3♎24'06	29♈39	27♎ 8	14♍49	16♎31	17♏50	5♎39	8♌49	11♏43	23♓ 3	1♊15	2♊42	25♉ 3	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n56	0s 4	4s 6	5n10	0n14	19n 9	0n55	1n54	0n28	23s30	1s 1	1n14	2n21	19n17	0n39	23s 0	0n10	18s37	17s35	21n13	21n14	17n22		n.a.
S 2	9 34	5n19	3 24	4 27	0 7	18 51	0 57	1 37	0 27	23 30	1 1	1 11	2 21	19 16	0 39	23 0	0 10	18 38	17 35	21 11	21 13	17 24		n.a.
S 3	9 12	10 26	2 33	3 43	0 0	18 32	0 59	1 20	0 27	23 30	1 1	1 9	2 21	19 15	0 39	23 0	0 10	18 38	17 35	21 10	21 13	17 27		n.a.
M 4	8 50	15 7	1 36	2 59	0s 7	18 13	1 1	1 3	0 26	23 31	1 1	1 6	2 21	19 14	0 39	23 0	0 10	18 39	17 35	21 10	21 12	17 30		n.a.
T 5	8 28	19 11	0 35	2 15	0 14	17 54	1 3	0 46	0 25	23 31	1 1	1 3	2 21	19 13	0 39	23 0	0 10	18 39	17 35	21 9	21 12	17 32		n.a.
W 6	8 5	22 30	0n28	1 32	0 21	17 34	1 5	0 29	0 25	23 31	1 1	1 0	2 21	19 12	0 39	23 1	0 10	18 40	17 35	21 9	21 11	17 35		n.a.
T 7	7 43	24 53	1 29	0 49	0 28	17 13	1 7	0 12	0 24	23 32	1 1	0 58	2 21	19 11	0 39	23 1	0 10	18 40	17 35	21 9	21 10	17 37		n.a.
F 8	7 20	26 9	2 28	0 6	0 36	16 52	1 9	0s 5	0 23	23 32	1 1	0 55	2 21	19 11	0 39	23 1	0 10	18 41	17 35	21 9	21 10	17 40		n.a.
S 9	6 57	26 9	3 21	0s36	0 43	16 31	1 10	0 23	0 23	23 32	1 0	0 52	2 21	19 10	0 39	23 1	0 10	18 41	17 35	21 8	21 9	17 42		n.a.
S 10	6 34	24 47	4 6	1 18	0 50	16 9	1 12	0 40	0 22	23 32	1 0	0 49	2 21	19 9	0 40	23 1	0 10	18 42	17 35	21 7	21 9	17 45		n.a.
M11	6 11	22 4	4 39	2 0	0 57	15 46	1 14	0 57	0 22	23 32	1 0	0 46	2 21	19 8	0 40	23 1	0 10	18 42	17 35	21 5	21 8	17 47		n.a.
T 12	5 48	18 5	4 58	2 42	1 4	15 23	1 15	1 14	0 21	23 32	1 0	0 43	2 20	19 7	0 40	23 1	0 10	18 43	17 35	21 3	21 7	17 50		n.a.
W13	5 24	13 2	5 0	3 23	1 11	15 0	1 17	1 32	0 20	23 32	1 0	0 41	2 20	19 7	0 40	23 1	0 10	18 43	17 36	21 1	21 7	17 52		n.a.
T 14	5 1	7 11	4 43	4 3	1 18	14 36	1 18	1 49	0 20	23 32	1 0	0 38	2 20	19 6	0 40	23 1	0 10	18 44	17 36	20 59	21 6	17 55		n.a.
F 15	4 37	0 52	4 9	4 43	1 25	14 12	1 19	2 6	0 19	23 32	1 0	0 35	2 20	19 5	0 40	23 1	0 10	18 44	17 36	20 57	21 6	17 57		n.a.
S 16	4 14	5s34	3 18	5 23	1 32	13 47	1 21	2 23	0 18	23 32	1 0	0 32	2 20	19 4	0 40	23 1	0 10	18 45	17 36	20 55	21 5	18 0		n.a.
S 17	3 50	11 42	2 14	6 2	1 39	13 22	1 22	2 41	0 18	23 32	1 0	0 29	2 20	19 3	0 40	23 1	0 10	18 45	17 36	20 54	21 4	18 3		n.a.
M18	3 26	17 11	1 1	6 40	1 45	12 56	1 23	2 58	0 17	23 32	1 0	0 26	2 20	19 3	0 40	23 1	0 10	18 46	17 36	20 54	21 4	18 5		n.a.
T 19	3 3	21 38	0s14	7 18	1 52	12 31	1 24	3 15	0 17	23 32	1 0	0 23	2 20	19 2	0 40	23 1	0 10	18 46	17 36	20 53	21 3	18 8		n.a.
W20	2 39	24 44	1 28	7 55	1 58	12 5	1 25	3 33	0 16	23 32	1 0	0 21	2 20	19 1	0 40	23 1	0 10	18 47	17 36	20 54	21 3	18 10		n.a.
T 21	2 15	26 16	2 36	8 31	2 4	11 38	1 26	3 50	0 15	23 32	1 0	0 18	2 20	19 0	0 40	23 1	0 10	18 47	17 36	20 53	21 2	18 13		n.a.
F 22	1 51	26 9	3 33	9 6	2 10	11 11	1 27	4 7	0 15	23 32	1 0	0 15	2 20	19 0	0 40	23 1	0 10	18 47	17 36	20 53	21 1	18 15		n.a.
S 23	1 27	24 29	4 18	9 41	2 16	10 44	1 27	4 25	0 14	23 31	0 59	0 12	2 20	18 59	0 40	23 1	0 10	18 48	17 36	20 52	21 1	18 18		n.a.
S 24	1 3	21 28	4 48	10 14	2 21	10 17	1 28	4 42	0 13	23 31	0 59	0 9	2 20	18 58	0 40	23 2	0 10	18 48	17 36	20 51	21 0	18 20		n.a.
M25	0 39	17 23	5 2	10 47	2 27	9 49	1 29	4 59	0 13	23 31	0 59	0 6	2 20	18 58	0 40	23 2	0 10	18 49	17 36	20 49	20 59	18 23		n.a.
T 26	0 14	12 34	5 0	11 18	2 32	9 21	1 29	5 16	0 12	23 30	0 59	0 3	2 20	18 57	0 40	23 2	0 10	18 49	17 35	20 47	20 59	18 25		n.a.
W27	0s10	7 16	4 44	11 48	2 36	8 52	1 30	5 33	0 11	23 30	0 59	0 1	2 20	18 56	0 40	23 2	0 10	18 50	17 35	20 44	20 58	18 27		n.a.
T 28	0 34	1 47	4 13	12 17	2 40	8 24	1 30	5 51	0 11	23 30	0 59	0s 2	2 20	18 56	0 40	23 2	0 10	18 50	17 35	20 42	20 58	18 30		n.a.
F 29	0 58	3n42	3 31	12 44	2 44	7 55	1 30	6 8	0 10	23 29	0 59	0 5	2 20	18 55	0 40	23 2	0 10	18 50	17 35	20 40	20 57	18 32		n.a.
S 30	1s22	8n59	2s40	13s10	2s47	7n26	1n31	6s25	0n10	23s29	0s59	0s 8	2n20	18n54	0n40	23s 2	0n10	18s51	17s35	20n39	20n56	18n35		n.a.

Julian Day Number = 1670896.5, Delta T = 03h20m37s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'35, Lahiri = - 5°51'35 Julian Calendar 1 Sept. 139 BCE == Greg. Calendar 29 Aug. 139 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

OCTOBER 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 24 40	4♎24'12	11♉37	28♎ 6	16♍ 4	17♎13	17♑53	5♎46	8♌52	11♑43	23°R 2	1°R10	2♊39	25♉10	n.a.	S 1
M 2	0 28 37	5°24'20	23°27	29° 2	17°20	17°56	17°56	5°54	8°54	11°43	23♓ 1	1♊ 8	2°36	25°16	n.a.	M 2
T 3	0 32 33	6°24'31	5♊13	29°54	18°35	18°39	17°59	6° 1	8°57	11°43	23° 0	1°D 8	2°32	25°23	n.a.	T 3
W 4	0 36 30	7°24'44	17° 1	0♏42	19°50	19°22	18° 2	6° 8	8°59	11°44	22°58	1° 9	2°29	25°30	n.a.	W 4
T 5	0 40 26	8°24'59	28°54	1°25	21° 5	20° 4	18° 6	6°15	9° 1	11°44	22°57	1°10	2°26	25°36	n.a.	T 5
F 6	0 44 23	9°25'16	10♋58	2° 3	22°20	20°47	18° 9	6°22	9° 4	11°44	22°56	1°R10	2°23	25°43	n.a.	F 6
S 7	0 48 20	10°25'35	23°18	2°36	23°35	21°30	18°13	6°29	9° 6	11°44	22°55	1° 9	2°20	25°50	n.a.	S 7
S 8	0 52 16	11°25'56	6♌ 0	3° 3	24°51	22°13	18°17	6°37	9° 8	11°45	22°54	1° 6	2°16	25°56	n.a.	S 8
M 9	0 56 13	12°26'20	19° 7	3°23	26° 6	22°57	18°22	6°44	9°10	11°45	22°53	1° 1	2°13	26° 3	n.a.	M 9
T 10	1 0 9	13°26'45	2♍42	3°35	27°21	23°40	18°26	6°51	9°12	11°46	22°52	0°55	2°10	26°10	n.a.	T 10
W11	1 4 6	14°27'12	16°44	3°R40	28°37	24°23	18°31	6°58	9°15	11°46	22°51	0°47	2° 7	26°16	n.a.	W11
T 12	1 8 2	15°27'41	1♎10	3°35	29°52	25° 6	18°35	7° 5	9°17	11°46	22°50	0°39	2° 4	26°23	n.a.	T 12
F 13	1 11 59	16°28'12	15°54	3°21	1♎ 7	25°50	18°40	7°12	9°19	11°47	22°49	0°32	2° 1	26°30	n.a.	F 13
S 14	1 15 55	17°28'45	0♏49	2°57	2°23	26°33	18°45	7°19	9°21	11°48	22°48	0°27	1°57	26°36	n.a.	S 14
S 15	1 19 52	18°29'19	15°47	2°23	3°38	27°16	18°51	7°26	9°22	11°48	22°47	0°25	1°54	26°43	n.a.	S 15
M16	1 23 48	19°29'55	0♐38	1°39	4°53	28° 0	18°56	7°33	9°24	11°49	22°46	0°D24	1°51	26°49	n.a.	M16
T 17	1 27 45	20°30'32	15°16	0°45	6° 9	28°43	19° 2	7°40	9°26	11°49	22°45	0°24	1°48	26°56	n.a.	T 17
W18	1 31 42	21°31'11	29°38	29♎42	7°24	29°27	19° 8	7°47	9°28	11°50	22°44	0°26	1°45	27° 3	n.a.	W18
T 19	1 35 38	22°31'51	13♑40	28°31	8°40	0♏11	19°14	7°54	9°29	11°51	22°43	0°27	1°41	27° 9	n.a.	T 19
F 20	1 39 35	23°32'32	27°23	27°14	9°55	0°54	19°20	8° 1	9°31	11°52	22°42	0°R27	1°38	27°16	n.a.	F 20
S 21	1 43 31	24°33'14	10♒47	25°54	11°11	1°38	19°26	8° 8	9°33	11°52	22°41	0°26	1°35	27°23	n.a.	S 21
S 22	1 47 28	25°33'58	23°54	24°33	12°26	2°22	19°33	8°15	9°34	11°53	22°40	0°23	1°32	27°29	n.a.	S 22
M23	1 51 24	26°34'42	6♓46	23°13	13°42	3° 6	19°39	8°22	9°36	11°54	22°39	0°19	1°29	27°36	n.a.	M23
T 24	1 55 21	27°35'28	19°24	21°57	14°57	3°50	19°46	8°29	9°37	11°55	22°38	0°13	1°26	27°43	n.a.	T 24
W25	1 59 18	28°36'15	1♈50	20°48	16°13	4°34	19°53	8°36	9°39	11°56	22°37	0° 7	1°22	27°49	n.a.	W25
T 26	2 3 14	29°37'03	14° 6	19°48	17°28	5°18	20° 0	8°43	9°40	11°57	22°36	0° 2	1°19	27°56	n.a.	T 26
F 27	2 7 11	0♏37'53	26°12	18°58	18°44	6° 2	20° 8	8°50	9°41	11°58	22°35	29♉57	1°16	28° 3	n.a.	F 27
S 28	2 11 7	1°38'43	8♉11	18°19	19°59	6°46	20°15	8°57	9°42	11°59	22°34	29°53	1°13	28° 9	n.a.	S 28
S 29	2 15 4	2°39'36	20° 3	17°51	21°15	7°30	20°23	9° 3	9°44	12° 0	22°33	29°52	1°10	28°16	n.a.	S 29
M30	2 19 0	3°40'29	1♊51	17°35	22°30	8°14	20°31	9°10	9°45	12° 1	22°33	29°D51	1° 7	28°22	n.a.	M30
T 31	2 22 57	4♏41'24	13♊37	17°D31	23♎46	8♏59	20♑39	9♎17	9♌46	12♑ 2	22♓32	29♉52	1♊ 3	28♉29	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	1s46	13n52	1s43	13s34	2s50	6n57	1n31	6s42	0n 9	23s28	0s59	0s11	2n20	18n54	0n40	23s 2	0n10	18s51	17s35	20n38	20n56	18n37			n.a.
M 2	2 10	18 11	0 41	13 56	2 53	6 27	1 31	6 59	0 8	23 28	0 59	0 14	2 20	18 53	0 40	23 2	0 10	18 52	17 35	20 37	20 55	18 40			n.a.
T 3	2 34	21 47	0n22	14 16	2 54	5 58	1 31	7 16	0 8	23 27	0 59	0 17	2 20	18 52	0 40	23 2	0 10	18 52	17 35	20 37	20 54	18 42			n.a.
W 4	2 58	24 28	1 25	14 34	2 55	5 28	1 31	7 33	0 7	23 27	0 59	0 20	2 20	18 52	0 40	23 2	0 10	18 52	17 35	20 37	20 54	18 45			n.a.
T 5	3 22	26 6	2 24	14 50	2 55	4 58	1 31	7 50	0 6	23 26	0 58	0 22	2 20	18 51	0 40	23 2	0 10	18 53	17 35	20 38	20 53	18 47			n.a.
F 6	3 46	26 32	3 18	15 3	2 55	4 28	1 31	8 7	0 6	23 26	0 58	0 25	2 20	18 51	0 40	23 2	0 10	18 53	17 35	20 38	20 52	18 50			n.a.
S 7	4 10	25 41	4 4	15 13	2 53	3 57	1 31	8 24	0 5	23 25	0 58	0 28	2 20	18 50	0 40	23 2	0 10	18 53	17 35	20 38	20 52	18 52			n.a.
S 8	4 34	23 29	4 39	15 20	2 50	3 27	1 30	8 41	0 4	23 25	0 58	0 31	2 20	18 49	0 40	23 2	0 10	18 54	17 34	20 37	20 51	18 54			n.a.
M 9	4 58	20 1	5 2	15 23	2 47	2 56	1 30	8 58	0 4	23 24	0 58	0 34	2 20	18 49	0 40	23 2	0 10	18 54	17 34	20 36	20 51	18 57			n.a.
T 10	5 22	15 24	5 8	15 23	2 42	2 26	1 29	9 14	0 3	23 23	0 58	0 37	2 20	18 48	0 40	23 2	0 10	18 54	17 34	20 34	20 50	18 59			n.a.
W11	5 46	9 50	4 57	15 18	2 35	1 55	1 29	9 31	0 3	23 22	0 58	0 39	2 20	18 48	0 41	23 2	0 10	18 55	17 34	20 33	20 49	19 2			n.a.
T 12	6 9	3 36	4 26	15 9	2 27	1 24	1 28	9 48	0 2	23 22	0 58	0 42	2 20	18 47	0 41	23 2	0 10	18 55	17 34	20 31	20 49	19 4			n.a.
F 13	6 33	2s59	3 38	14 56	2 18	0 53	1 28	10 4	0 1	23 21	0 58	0 45	2 20	18 47	0 41	23 1	0 10	18 55	17 34	20 30	20 48	19 7			n.a.
S 14	6 56	9 30	2 33	14 37	2 6	0 22	1 27	10 21	0 1	23 20	0 58	0 48	2 20	18 46	0 41	23 1	0 10	18 55	17 34	20 29	20 47	19 9			n.a.
S 15	7 20	15 30	1 19	14 13	1 53	0s 9	1 26	10 37	0s 0	23 19	0 58	0 51	2 20	18 46	0 41	23 1	0 10	18 56	17 33	20 28	20 47	19 11			n.a.
M16	7 43	20 32	0s 1	13 43	1 39	0 40	1 25	10 54	0 1	23 18	0 58	0 53	2 20	18 45	0 41	23 1	0 10	18 56	17 33	20 28	20 46	19 14			n.a.
T 17	8 6	24 13	1 20	13 9	1 22	1 11	1 25	11 10	0 1	23 18	0 57	0 56	2 20	18 45	0 41	23 1	0 10	18 56	17 33	20 28	20 45	19 16			n.a.
W18	8 29	26 15	2 32	12 30	1 5	1 42	1 24	11 26	0 2	23 17	0 57	0 59	2 20	18 45	0 41	23 1	0 9	18 56	17 33	20 28	20 45	19 19			n.a.
T 19	8 52	26 33	3 34	11 47	0 45	2 13	1 23	11 42	0 3	23 16	0 57	1 2	2 20	18 44	0 41	23 1	0 9	18 57	17 33	20 29	20 44	19 21			n.a.
F 20	9 15	25 12	4 22	11 0	0 25	2 43	1 22	11 58	0 3	23 15	0 57	1 4	2 20	18 44	0 41	23 1	0 9	18 57	17 32	20 29	20 44	19 23			n.a.
S 21	9 37	22 26	4 54	10 11	0 5	3 14	1 20	12 14	0 4	23 14	0 57	1 7	2 20	18 43	0 41	23 1	0 9	18 57	17 32	20 28	20 43	19 26			n.a.
S 22	10 0	18 34	5 10	9 22	0n16	3 45	1 19	12 30	0 5	23 13	0 57	1 10	2 21	18 43	0 41	23 1	0 9	18 57	17 32	20 28	20 42	19 28			n.a.
M23	10 22	13 55	5 10	8 34	0 36	4 16	1 18	12 46	0 5	23 12	0 57	1 12	2 21	18 43	0 41	23 1	0 9	18 57	17 32	20 27	20 42	19 31			n.a.
T 24	10 44	8 45	4 55	7 47	0 56	4 47	1 17	13 2	0 6	23 11	0 57	1 15	2 21	18 42	0 41	23 1	0 9	18 58	17 32	20 26	20 41	19 33			n.a.
W25	11 6	3 19	4 26	7 4	1 14	5 17	1 15	13 17	0 6	23 9	0 57	1 18	2 21	18 42	0 41	23 1	0 9	18 58	17 31	20 24	20 40	19 35			n.a.
T 26	11 28	2n10	3 45	6 26	1 30	5 48	1 14	13 33	0 7	23 8	0 57	1 20	2 21	18 42	0 41	23 1	0 9	18 58	17 31	20 23	20 40	19 38			n.a.
F 27	11 49	7 32	2 54	5 54	1 45	6 18	1 12	13 48	0 8	23 7	0 57	1 23	2 21	18 41	0 41	23 1	0 9	18 58	17 31	20 22	20 39	19 40			n.a.
S 28	12 11	12 34	1 56	5 27	1 57	6 48	1 11	14 4	0 8	23 6	0 57	1 26	2 21	18 41	0 41	23 1	0 9	18 58	17 31	20 22	20 38	19 42			n.a.
S 29	12 32	17 6	0 54	5 7	2 8	7 18	1 9	14 19	0 9	23 5	0 57	1 28	2 21	18 41	0 41	23 1	0 9	18 58	17 30	20 21	20 38	19 45			n.a.
M30	12 53	20 57	0n11	4 53	2 16	7 48	1 8	14 34	0 10	23 3	0 56	1 31	2 21	18 40	0 41	23 1	0 9	18 58	17 30	20 21	20 37	19 47			n.a.
T 31	13s14	23n56	1n15	4s45	2n23	8s18	1n 6	14s49	0s10	23s 2	0s56	1s34	2n21	18n40	0n41	23s 0	0n 9	18s59	17s30	20n21	20n36	19n49			n.a.

Julian Day Number = 1670926.5, Delta T = 03h20m36s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'31, Lahiri = - 5°51'31 Julian Calendar 1 Oct. 139 BCE == Greg. Calendar 28 Sept. 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

NOVEMBER 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 26 53	5♏42'20	25♊25	17♎37	25♎ 1	9♏43	20♑47	9♎24	9♌47	12♑ 3	22°R31	29♉53	1♊ 0	28♉36	n.a.	W 1
T 2	2 30 50	6°43'18	7♋19	17°53	26°17	10°27	20°55	9°30	9°48	12° 4	22♓30	29°55	0°57	28°42	n.a.	T 2
F 3	2 34 47	7°44'17	19°23	18°18	27°32	11°12	21° 3	9°37	9°49	12° 6	22°29	29°57	0°54	28°49	n.a.	F 3
S 4	2 38 43	8°45'17	1♌41	18°51	28°48	11°56	21°12	9°43	9°49	12° 7	22°29	29°58	0°51	28°56	n.a.	S 4
S 5	2 42 40	9°46'19	14°18	19°32	0♏ 4	12°41	21°20	9°50	9°50	12° 8	22°28	29°R58	0°47	29° 2	n.a.	S 5
M 6	2 46 36	10°47'21	27°18	20°19	1°19	13°25	21°29	9°56	9°51	12° 9	22°27	29°57	0°44	29° 9	n.a.	M 6
T 7	2 50 33	11°48'25	10♍45	21°12	2°35	14°10	21°38	10° 3	9°52	12°11	22°26	29°55	0°41	29°16	n.a.	T 7
W 8	2 54 29	12°49'31	24°40	22°10	3°50	14°55	21°47	10° 9	9°52	12°12	22°26	29°53	0°38	29°22	n.a.	W 8
T 9	2 58 26	13°50'37	9♎ 2	23°12	5° 6	15°40	21°56	10°16	9°53	12°13	22°25	29°51	0°35	29°29	n.a.	T 9
F 10	3 2 22	14°51'44	23°49	24°18	6°22	16°24	22° 6	10°22	9°53	12°15	22°24	29°49	0°32	29°36	n.a.	F 10
S 11	3 6 19	15°52'53	8♏52	25°28	7°37	17° 9	22°15	10°28	9°54	12°16	22°24	29°48	0°28	29°42	n.a.	S 11
S 12	3 10 16	16°54'02	24° 4	26°40	8°53	17°54	22°25	10°35	9°54	12°18	22°23	29°D47	0°25	29°49	n.a.	S 12
M13	3 14 12	17°55'12	9♐14	27°55	10° 8	18°39	22°35	10°41	9°54	12°19	22°23	29°47	0°22	29°56	n.a.	M13
T 14	3 18 9	18°56'23	24°14	29°12	11°24	19°24	22°44	10°47	9°55	12°21	22°22	29°48	0°19	0♊ 2	n.a.	T 14
W15	3 22 5	19°57'34	8♑56	0♏30	12°40	20° 9	22°54	10°53	9°55	12°22	22°22	29°49	0°16	0° 9	n.a.	W15
T 16	3 26 2	20°58'46	23°15	1°51	13°55	20°54	23° 4	10°59	9°55	12°24	22°21	29°49	0°13	0°15	n.a.	T 16
F 17	3 29 58	21°59'58	7♒ 8	3°13	15°11	21°39	23°15	11° 5	9°55	12°25	22°20	29°50	0° 9	0°22	n.a.	F 17
S 18	3 33 55	23° 1'10	20°37	4°36	16°26	22°24	23°25	11°11	9°R55	12°27	22°20	29°R50	0° 6	0°29	n.a.	S 18
S 19	3 37 51	24° 2'22	3♓42	6° 0	17°42	23°10	23°35	11°17	9°55	12°29	22°20	29°50	0° 3	0°35	n.a.	S 19
M20	3 41 48	25° 3'34	16°26	7°25	18°58	23°55	23°46	11°23	9°55	12°30	22°19	29°50	29♉59	0°42	n.a.	M20
T 21	3 45 45	26° 4'47	28°54	8°51	20°13	24°40	23°57	11°29	9°55	12°32	22°19	29°49	29°57	0°49	n.a.	T 21
W22	3 49 41	27° 5'59	11♈ 7	10°17	21°29	25°26	24° 7	11°34	9°55	12°34	22°18	29°49	29°53	0°55	n.a.	W22
T 23	3 53 38	28° 7'12	23°10	11°45	22°44	26°11	24°18	11°40	9°55	12°36	22°18	29°49	29°50	1° 2	n.a.	T 23
F 24	3 57 34	29° 8'26	5♉ 6	13°13	24° 0	26°56	24°29	11°46	9°54	12°37	22°17	29°48	29°47	1° 9	n.a.	F 24
S 25	4 1 31	0♐ 9'39	16°57	14°41	25°15	27°42	24°40	11°51	9°54	12°39	22°17	29°D48	29°44	1°15	n.a.	S 25
S 26	4 5 27	1°10'52	28°45	16°10	26°31	28°27	24°52	11°57	9°54	12°41	22°17	29°R48	29°41	1°22	n.a.	S 26
M27	4 9 24	2°12'06	10♊33	17°39	27°46	29°13	25° 3	12° 2	9°53	12°43	22°17	29°48	29°38	1°29	n.a.	M27
T 28	4 13 20	3°13'20	22°22	19° 9	29° 2	29°59	25°14	12° 7	9°53	12°45	22°16	29°48	29°34	1°35	n.a.	T 28
W29	4 17 17	4°14'34	4♋16	20°39	0♐17	0♐44	25°26	12°13	9°52	12°46	22°16	29°48	29°31	1°42	n.a.	W29
T 30	4 21 14	5♐15'49	16♋15	22♏10	1♐33	1♐30	25♑37	12♎18	9♌51	12♑48	22♓16	29♉47	29♉28	1♊49	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s34	25n54	2n16	4s43	2n28	8s48	1n 4	15s 4	0s11	23s 1	0s56	1s36	2n21	18n40	0n41	23s 0	0n 9	18s59	17s30	20n22	20n36	19n52		n.a.
T 2	13 55	26 42	3 12	4 46	2 31	9 17	1 3	15 19	0 12	22 59	0 56	1 39	2 21	18 40	0 41	23 0	0 9	18 59	17 29	20 22	20 35	19 54		n.a.
F 3	14 15	26 16	4 0	4 54	2 33	9 46	1 1	15 33	0 12	22 58	0 56	1 41	2 22	18 40	0 41	23 0	0 9	18 59	17 29	20 22	20 34	19 57		n.a.
S 4	14 35	24 32	4 39	5 6	2 34	10 15	0 59	15 48	0 13	22 57	0 56	1 44	2 22	18 39	0 42	23 0	0 9	18 59	17 29	20 22	20 34	19 59		n.a.
S 5	14 54	21 35	5 5	5 22	2 33	10 44	0 57	16 2	0 14	22 55	0 56	1 46	2 22	18 39	0 42	23 0	0 9	18 59	17 29	20 22	20 33	20 1		n.a.
M 6	15 14	17 29	5 16	5 42	2 31	11 12	0 55	16 16	0 14	22 54	0 56	1 49	2 22	18 39	0 42	23 0	0 9	18 59	17 28	20 22	20 32	20 3		n.a.
T 7	15 33	12 24	5 11	6 4	2 29	11 40	0 53	16 30	0 15	22 52	0 56	1 51	2 22	18 39	0 42	23 0	0 9	18 59	17 28	20 22	20 32	20 6		n.a.
W 8	15 52	6 32	4 47	6 29	2 25	12 8	0 51	16 44	0 15	22 51	0 56	1 54	2 22	18 39	0 42	23 0	0 9	18 59	17 28	20 21	20 31	20 8		n.a.
T 9	16 10	0 8	4 6	6 56	2 21	12 36	0 49	16 58	0 16	22 49	0 56	1 56	2 22	18 39	0 42	23 0	0 9	18 59	17 27	20 21	20 30	20 10		n.a.
F 10	16 29	6s27	3 7	7 25	2 17	13 3	0 47	17 12	0 17	22 48	0 56	1 58	2 22	18 39	0 42	22 59	0 9	18 59	17 27	20 21	20 30	20 13		n.a.
S 11	16 47	12 50	1 53	7 55	2 12	13 30	0 45	17 26	0 17	22 46	0 56	2 1	2 22	18 39	0 42	22 59	0 9	18 59	17 27	20 20	20 29	20 15		n.a.
S 12	17 5	18 29	0 32	8 27	2 6	13 57	0 43	17 39	0 18	22 44	0 56	2 3	2 23	18 38	0 42	22 59	0 9	18 59	17 27	20 20	20 28	20 17		n.a.
M13	17 22	22 57	0s52	8 59	2 0	14 23	0 41	17 52	0 19	22 43	0 55	2 5	2 23	18 38	0 42	22 59	0 9	18 59	17 26	20 20	20 28	20 20		n.a.
T 14	17 39	25 47	2 12	9 32	1 54	14 49	0 39	18 5	0 19	22 41	0 55	2 8	2 23	18 38	0 42	22 59	0 9	18 59	17 26	20 20	20 27	20 22		n.a.
W15	17 56	26 45	3 21	10 6	1 47	15 14	0 37	18 18	0 20	22 39	0 55	2 10	2 23	18 38	0 42	22 59	0 9	18 59	17 26	20 20	20 26	20 24		n.a.
T 16	18 12	25 53	4 15	10 41	1 41	15 39	0 34	18 31	0 21	22 37	0 55	2 12	2 23	18 38	0 42	22 59	0 9	18 59	17 25	20 21	20 26	20 26		n.a.
F 17	18 29	23 25	4 53	11 15	1 34	16 4	0 32	18 44	0 21	22 36	0 55	2 14	2 23	18 38	0 42	22 59	0 9	18 59	17 25	20 21	20 25	20 29		n.a.
S 18	18 44	19 44	5 14	11 50	1 27	16 28	0 30	18 56	0 22	22 34	0 55	2 17	2 23	18 38	0 42	22 58	0 9	18 58	17 25	20 21	20 24	20 31		n.a.
S 19	19 0	15 11	5 17	12 25	1 20	16 52	0 28	19 8	0 22	22 32	0 55	2 19	2 24	18 38	0 42	22 58	0 9	18 58	17 24	20 21	20 24	20 33		n.a.
M20	19 15	10 5	5 5	13 0	1 12	17 15	0 25	19 20	0 23	22 30	0 55	2 21	2 24	18 39	0 42	22 58	0 9	18 58	17 24	20 21	20 23	20 36		n.a.
T 21	19 30	4 41	4 38	13 35	1 5	17 38	0 23	19 32	0 24	22 28	0 55	2 23	2 24	18 39	0 42	22 58	0 9	18 58	17 24	20 21	20 22	20 38		n.a.
W22	19 44	0n47	3 59	14 10	0 58	18 0	0 21	19 44	0 24	22 26	0 55	2 25	2 24	18 39	0 42	22 58	0 9	18 58	17 23	20 21	20 22	20 40		n.a.
T 23	19 58	6 10	3 10	14 44	0 50	18 22	0 18	19 55	0 25	22 24	0 55	2 27	2 24	18 39	0 42	22 58	0 9	18 58	17 23	20 20	20 21	20 42		n.a.
F 24	20 12	11 17	2 13	15 18	0 43	18 44	0 16	20 7	0 25	22 22	0 55	2 29	2 24	18 39	0 42	22 58	0 9	18 58	17 23	20 20	20 20	20 45		n.a.
S 25	20 25	15 57	1 11	15 51	0 36	19 5	0 14	20 18	0 26	22 20	0 55	2 31	2 25	18 39	0 42	22 57	0 9	18 57	17 22	20 20	20 19	20 47		n.a.
S 26	20 38	20 1	0 6	16 25	0 28	19 25	0 11	20 29	0 27	22 18	0 55	2 33	2 25	18 39	0 42	22 57	0 9	18 57	17 22	20 20	20 19	20 49		n.a.
M27	20 50	23 16	0n59	16 57	0 21	19 45	0 9	20 39	0 27	22 16	0 55	2 35	2 25	18 39	0 43	22 57	0 9	18 57	17 22	20 20	20 18	20 51		n.a.
T 28	21 2	25 31	2 2	17 29	0 14	20 4	0 6	20 50	0 28	22 14	0 55	2 37	2 25	18 40	0 43	22 57	0 9	18 57	17 21	20 20	20 17	20 54		n.a.
W29	21 14	26 39	3 0	18 1	0 7	20 23	0 4	21 0	0 29	22 12	0 55	2 39	2 25	18 40	0 43	22 57	0 9	18 57	17 21	20 20	20 17	20 56		n.a.
T 30	21s25	26n31	3n51	18s31	0s 0	20s41	0n 2	21s10	0s29	22s 9	0s55	2s41	2n25	18n40	0n43	22s57	0n 9	18s56	17s20	20n20	20n16	20n58		n.a.

Julian Day Number = 1670957.5, Delta T = 03h20m35s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'27, Lahiri = - 5°51'27 Julian Calendar 1 Nov. 139 BCE == Greg. Calendar 29 Oct. 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 139 BCE
geocentric

DECEMBER 139 BCE (-138) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 25 10	6♐17'04	28♋24	23♏41	2♐49	2♐16	25♑49	12♎23	9°R51	12♑50	22°R16	29°R46	29♉25	1♊55	n.a.	F 1
S 2	4 29 7	7°18'18	10♌45	25°12	4° 4	3° 1	26° 1	12°28	9♌50	12°52	22♓15	29♉45	29°22	2° 2	n.a.	S 2
S 3	4 33 3	8°19'34	23°22	26°44	5°20	3°47	26°13	12°33	9°49	12°54	22°15	29°45	29°19	2° 8	n.a.	S 3
M 4	4 37 0	9°20'49	6♍17	28°16	6°35	4°33	26°25	12°38	9°48	12°56	22°15	29°D44	29°15	2°15	n.a.	M 4
T 5	4 40 56	10°22'04	19°34	29°48	7°51	5°19	26°37	12°43	9°47	12°58	22°15	29°44	29°12	2°22	n.a.	T 5
W 6	4 44 53	11°23'20	3♎16	1♐21	9° 6	6° 5	26°49	12°48	9°47	13° 0	22°15	29°45	29° 9	2°28	n.a.	W 6
T 7	4 48 50	12°24'35	17°24	2°54	10°22	6°51	27° 1	12°53	9°46	13° 2	22°15	29°46	29° 6	2°35	n.a.	T 7
F 8	4 52 46	13°25'51	1♏55	4°28	11°37	7°37	27°13	12°57	9°45	13° 4	22°15	29°47	29° 3	2°42	n.a.	F 8
S 9	4 56 43	14°27'07	16°47	6° 2	12°53	8°23	27°26	13° 2	9°43	13° 6	22°15	29°48	28°59	2°48	n.a.	S 9
S 10	5 0 39	15°28'22	1♐54	7°36	14° 8	9° 9	27°38	13° 6	9°42	13° 8	22°D15	29°R48	28°56	2°55	n.a.	S 10
M11	5 4 36	16°29'38	17° 7	9°11	15°24	9°55	27°51	13°11	9°41	13°10	22°15	29°48	28°53	3° 2	n.a.	M11
T 12	5 8 32	17°30'53	2♑15	10°46	16°39	10°41	28° 3	13°15	9°40	13°12	22°15	29°46	28°50	3° 8	n.a.	T 12
W13	5 12 29	18°32'07	17°11	12°21	17°54	11°27	28°16	13°19	9°39	13°14	22°15	29°44	28°47	3°15	n.a.	W13
T 14	5 16 25	19°33'21	1♒45	13°57	19°10	12°14	28°29	13°24	9°37	13°17	22°15	29°41	28°44	3°22	n.a.	T 14
F 15	5 20 22	20°34'34	15°53	15°34	20°25	13° 0	28°42	13°28	9°36	13°19	22°15	29°38	28°40	3°28	n.a.	F 15
S 16	5 24 19	21°35'46	29°32	17°11	21°41	13°46	28°54	13°32	9°34	13°21	22°15	29°36	28°37	3°35	n.a.	S 16
S 17	5 28 15	22°36'57	12♓44	18°48	22°56	14°32	29° 7	13°36	9°33	13°23	22°15	29°35	28°34	3°42	n.a.	S 17
M18	5 32 12	23°38'08	25°31	20°26	24°12	15°19	29°20	13°40	9°31	13°25	22°15	29°D34	28°31	3°48	n.a.	M18
T 19	5 36 8	24°39'17	7♈56	22° 5	25°27	16° 5	29°34	13°43	9°30	13°27	22°16	29°35	28°28	3°55	n.a.	T 19
W20	5 40 5	25°40'25	20° 5	23°44	26°42	16°52	29°47	13°47	9°28	13°29	22°16	29°36	28°25	4° 1	n.a.	W20
T 21	5 44 1	26°41'33	2♉ 3	25°23	27°58	17°38	29°59	13°51	9°26	13°32	22°16	29°38	28°21	4° 8	n.a.	T 21
F 22	5 47 58	27°42'39	13°53	27° 3	29°13	18°24	0♒13	13°54	9°25	13°34	22°16	29°40	28°18	4°15	n.a.	F 22
S 23	5 51 54	28°43'45	25°39	28°44	0♑28	19°11	0°26	13°58	9°23	13°36	22°17	29°R41	28°15	4°21	n.a.	S 23
S 24	5 55 51	29°44'49	7♊26	0♑25	1°44	19°57	0°40	14° 1	9°21	13°38	22°17	29°41	28°12	4°28	n.a.	S 24
M25	5 59 48	0♑45'53	19°16	2° 7	2°59	20°44	0°53	14° 4	9°19	13°41	22°17	29°39	28° 9	4°35	n.a.	M25
T 26	6 3 44	1°46'56	1♋12	3°49	4°14	21°31	1° 7	14° 7	9°18	13°43	22°18	29°35	28° 5	4°41	n.a.	T 26
W27	6 7 41	2°47'57	13°15	5°32	5°30	22°17	1°20	14°11	9°16	13°45	22°18	29°30	28° 2	4°48	n.a.	W27
T 28	6 11 37	3°48'58	25°27	7°16	6°45	23° 4	1°34	14°14	9°14	13°47	22°18	29°24	27°59	4°55	n.a.	T 28
F 29	6 15 34	4°49'58	7♌48	9° 0	8° 0	23°50	1°48	14°16	9°12	13°49	22°19	29°18	27°56	5° 1	n.a.	F 29
S 30	6 19 30	5°50'57	20°21	10°45	9°15	24°37	2° 1	14°19	9°10	13°52	22°19	29°11	27°53	5° 8	n.a.	S 30
S 31	6 23 27	6♑51'55	3♍ 7	12♑30	10♑31	25♐24	2♒15	14♎22	9♌ 8	13♑54	22♓20	29♉ 6	27♉50	5♊15	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s36	25n 8	4n31	19s 1	0s 7	20s58	0s 1	21s20	0s30	22s 7	0s55	2s43	2n26	18n40	0n43	22s56	0n 9	18s56	17s20	20n20	20n15	21n 0		n.a.
S 2	21 47	22 33	5 0	19 31	0 14	21 15	0 3	21 30	0 30	22 5	0 55	2 45	2 26	18 40	0 43	22 56	0 9	18 56	17 20	20 20	20 15	21 2		n.a.
S 3	21 57	18 50	5 16	19 59	0 21	21 32	0 6	21 39	0 31	22 3	0 55	2 47	2 26	18 41	0 43	22 56	0 9	18 56	17 19	20 20	20 14	21 5		n.a.
M 4	22 6	14 11	5 15	20 27	0 27	21 47	0 8	21 49	0 32	22 0	0 55	2 48	2 26	18 41	0 43	22 56	0 9	18 55	17 19	20 20	20 13	21 7		n.a.
T 5	22 15	8 44	4 59	20 53	0 34	22 2	0 10	21 58	0 32	21 58	0 54	2 50	2 26	18 41	0 43	22 56	0 9	18 55	17 19	20 20	20 13	21 9		n.a.
W 6	22 24	2 44	4 25	21 19	0 40	22 17	0 13	22 6	0 33	21 55	0 54	2 52	2 27	18 42	0 43	22 56	0 9	18 55	17 18	20 20	20 12	21 11		n.a.
T 7	22 32	3s37	3 34	21 44	0 46	22 30	0 15	22 15	0 33	21 53	0 54	2 54	2 27	18 42	0 43	22 55	0 9	18 54	17 18	20 20	20 11	21 13		n.a.
F 8	22 40	9 57	2 29	22 8	0 52	22 43	0 17	22 23	0 34	21 51	0 54	2 55	2 27	18 42	0 43	22 55	0 9	18 54	17 18	20 20	20 10	21 16		n.a.
S 9	22 48	15 54	1 12	22 31	0 58	22 56	0 20	22 31	0 35	21 48	0 54	2 57	2 27	18 42	0 43	22 55	0 9	18 54	17 17	20 20	20 10	21 18		n.a.
S 10	22 55	20 58	0s12	22 53	1 4	23 7	0 22	22 39	0 35	21 46	0 54	2 58	2 27	18 43	0 43	22 55	0 9	18 54	17 17	20 20	20 9	21 20		n.a.
M11	23 1	24 39	1 34	23 13	1 9	23 18	0 24	22 47	0 36	21 43	0 54	3 0	2 28	18 43	0 43	22 55	0 9	18 53	17 16	20 20	20 8	21 22		n.a.
T 12	23 7	26 32	2 50	23 33	1 15	23 28	0 26	22 54	0 36	21 40	0 54	3 1	2 28	18 44	0 43	22 54	0 9	18 53	17 16	20 20	20 8	21 24		n.a.
W13	23 13	26 27	3 53	23 51	1 20	23 38	0 29	23 1	0 37	21 38	0 54	3 3	2 28	18 44	0 43	22 54	0 9	18 52	17 16	20 19	20 7	21 26		n.a.
T 14	23 18	24 32	4 39	24 8	1 25	23 47	0 31	23 8	0 37	21 35	0 54	3 4	2 28	18 44	0 43	22 54	0 9	18 52	17 15	20 19	20 6	21 29		n.a.
F 15	23 22	21 8	5 7	24 24	1 29	23 55	0 33	23 15	0 38	21 33	0 54	3 6	2 28	18 45	0 43	22 54	0 9	18 52	17 15	20 18	20 6	21 31		n.a.
S 16	23 27	16 41	5 16	24 38	1 34	24 2	0 35	23 21	0 39	21 30	0 54	3 7	2 29	18 45	0 43	22 54	0 9	18 51	17 15	20 18	20 5	21 33		n.a.
S 17	23 30	11 34	5 7	24 52	1 38	24 9	0 37	23 27	0 39	21 27	0 54	3 8	2 29	18 46	0 43	22 53	0 9	18 51	17 14	20 17	20 4	21 35		n.a.
M18	23 33	6 8	4 44	25 3	1 42	24 15	0 40	23 33	0 40	21 24	0 54	3 10	2 29	18 46	0 43	22 53	0 9	18 51	17 14	20 17	20 3	21 37		n.a.
T 19	23 36	0 36	4 8	25 13	1 45	24 20	0 42	23 39	0 40	21 22	0 54	3 11	2 29	18 47	0 43	22 53	0 9	18 50	17 13	20 17	20 3	21 39		n.a.
W20	23 38	4n50	3 21	25 22	1 49	24 24	0 44	23 44	0 41	21 19	0 54	3 12	2 30	18 47	0 43	22 53	0 8	18 50	17 13	20 18	20 2	21 41		n.a.
T 21	23 40	10 2	2 26	25 29	1 52	24 28	0 46	23 49	0 41	21 16	0 54	3 13	2 30	18 47	0 43	22 53	0 8	18 49	17 13	20 18	20 1	21 44		n.a.
F 22	23 42	14 49	1 26	25 35	1 54	24 30	0 48	23 54	0 42	21 13	0 54	3 15	2 30	18 48	0 43	22 52	0 8	18 49	17 12	20 19	20 1	21 46		n.a.
S 23	23 42	19 2	0 22	25 39	1 57	24 32	0 50	23 58	0 43	21 10	0 54	3 16	2 30	18 48	0 44	22 52	0 8	18 48	17 12	20 19	20 0	21 48		n.a.
S 24	23 43	22 30	0n42	25 41	1 59	24 34	0 52	24 3	0 43	21 7	0 54	3 17	2 31	18 49	0 44	22 52	0 8	18 48	17 12	20 19	19 59	21 50		n.a.
M25	23 43	25 1	1 45	25 42	2 0	24 34	0 54	24 7	0 44	21 4	0 54	3 18	2 31	18 50	0 44	22 52	0 8	18 47	17 11	20 18	19 58	21 52		n.a.
T 26	23 42	26 26	2 44	25 41	2 1	24 34	0 55	24 10	0 44	21 1	0 54	3 19	2 31	18 50	0 44	22 51	0 8	18 47	17 11	20 18	19 58	21 54		n.a.
W27	23 41	26 37	3 36	25 38	2 2	24 33	0 57	24 14	0 45	20 58	0 54	3 20	2 31	18 51	0 44	22 51	0 8	18 46	17 11	20 17	19 57	21 56		n.a.
T 28	23 39	25 31	4 18	25 33	2 2	24 31	0 59	24 17	0 45	20 55	0 54	3 21	2 32	18 51	0 44	22 51	0 8	18 46	17 10	20 15	19 56	21 58		n.a.
F 29	23 37	23 11	4 49	25 26	2 2	24 29	1 1	24 20	0 46	20 52	0 54	3 22	2 32	18 52	0 44	22 51	0 8	18 45	17 10	20 14	19 56	22 0		n.a.
S 30	23 35	19 43	5 7	25 18	2 2	24 25	1 2	24 22	0 46	20 49	0 54	3 23	2 32	18 52	0 44	22 51	0 8	18 45	17 9	20 12	19 55	22 2		n.a.
S 31	23s32	15n17	5n10	25s 7	2s 1	24s21	1s 4	24s25	0s47	20s46	0s54	3s23	2n32	18n53	0n44	22s50	0n 8	18s44	17s 9	20n11	19n54	22n 4		n.a.

Julian Day Number = 1670987.5, Delta T = 03h20m34s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'23, Lahiri = - 5°51'22 Julian Calendar 1 Dec. 139 BCE == Greg. Calendar 28 Nov. 139 BCE

The year -138 astronomical counting style corresponds to year 139 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

JANUARY 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 27 24	7♑52'51	16♍ 7	14♑16	11♑46	26♐10	2♒29	14♎25	9°R 6	13♑56	22♓20	29°R 2	27♉46	5♊21	n.a.	M 1
T 2	6 31 20	8°53'47	29°23	16° 2	13° 1	26°57	2°43	14°27	9♌ 3	13°59	22°21	29♉ 0	27°43	5°28	n.a.	T 2
W 3	6 35 17	9°54'43	12♎56	17°48	14°16	27°44	2°56	14°29	9° 1	14° 1	22°21	28°D59	27°40	5°34	n.a.	W 3
T 4	6 39 13	10°55'37	26°49	19°34	15°32	28°31	3°10	14°32	8°59	14° 3	22°22	29° 0	27°37	5°41	n.a.	T 4
F 5	6 43 10	11°56'30	11♏ 2	21°21	16°47	29°18	3°24	14°34	8°57	14° 5	22°22	29° 1	27°34	5°48	n.a.	F 5
S 6	6 47 6	12°57'22	25°32	23° 8	18° 2	0♑ 4	3°38	14°36	8°55	14° 8	22°23	29°R 2	27°31	5°54	n.a.	S 6
S 7	6 51 3	13°58'14	10♐18	24°54	19°17	0°51	3°52	14°38	8°52	14°10	22°24	29° 2	27°27	6° 1	n.a.	S 7
M 8	6 54 59	14°59'04	25°14	26°40	20°32	1°38	4° 6	14°40	8°50	14°12	22°24	28°59	27°24	6° 8	n.a.	M 8
T 9	6 58 56	15°59'53	10♑12	28°25	21°47	2°25	4°20	14°42	8°48	14°14	22°25	28°55	27°21	6°14	n.a.	T 9
W10	7 2 53	17° 0'40	25° 3	0♒10	23° 3	3°12	4°35	14°44	8°45	14°17	22°26	28°48	27°18	6°21	n.a.	W10
T 11	7 6 49	18° 1'26	9♒38	1°53	24°18	3°59	4°49	14°45	8°43	14°19	22°26	28°40	27°15	6°28	n.a.	T 11
F 12	7 10 46	19° 2'11	23°52	3°35	25°33	4°46	5° 3	14°47	8°41	14°21	22°27	28°31	27°11	6°34	n.a.	F 12
S 13	7 14 42	20° 2'53	7♓39	5°15	26°48	5°33	5°17	14°48	8°38	14°24	22°28	28°24	27° 8	6°41	n.a.	S 13
S 14	7 18 39	21° 3'34	20°58	6°52	28° 3	6°20	5°31	14°50	8°36	14°26	22°28	28°17	27° 5	6°48	n.a.	S 14
M15	7 22 35	22° 4'13	3♈51	8°26	29°18	7° 7	5°46	14°51	8°33	14°28	22°29	28°13	27° 2	6°54	n.a.	M15
T 16	7 26 32	23° 4'50	16°20	9°57	0♒33	7°54	6° 0	14°52	8°31	14°30	22°30	28°12	26°59	7° 1	n.a.	T 16
W17	7 30 28	24° 5'25	28°30	11°23	1°48	8°41	6°14	14°53	8°28	14°33	22°31	28°D11	26°56	7° 8	n.a.	W17
T 18	7 34 25	25° 5'59	10♉27	12°45	3° 3	9°28	6°29	14°54	8°26	14°35	22°32	28°12	26°52	7°14	n.a.	T 18
F 19	7 38 22	26° 6'30	22°16	14° 1	4°18	10°15	6°43	14°55	8°23	14°37	22°32	28°R13	26°49	7°21	n.a.	F 19
S 20	7 42 18	27° 7'00	4♊ 3	15°11	5°33	11° 2	6°57	14°55	8°21	14°39	22°33	28°13	26°46	7°28	n.a.	S 20
S 21	7 46 15	28° 7'27	15°51	16°14	6°48	11°49	7°12	14°56	8°18	14°42	22°34	28°11	26°43	7°34	n.a.	S 21
M22	7 50 11	29° 7'53	27°45	17° 9	8° 3	12°36	7°26	14°56	8°15	14°44	22°35	28° 7	26°40	7°41	n.a.	M22
T 23	7 54 8	0♒ 8'17	9♋48	17°57	9°18	13°23	7°40	14°57	8°13	14°46	22°36	28° 0	26°37	7°47	n.a.	T 23
W24	7 58 4	1° 8'39	22° 2	18°36	10°33	14°10	7°55	14°57	8°10	14°48	22°37	27°51	26°33	7°54	n.a.	W24
T 25	8 2 1	2° 8'59	4♌29	19° 5	11°47	14°57	8° 9	14°57	8° 8	14°50	22°38	27°40	26°30	8° 1	n.a.	T 25
F 26	8 5 57	3° 9'17	17° 9	19°25	13° 2	15°44	8°24	14°R57	8° 5	14°53	22°39	27°27	26°27	8° 7	n.a.	F 26
S 27	8 9 54	4° 9'34	0♍ 1	19°35	14°17	16°31	8°38	14°57	8° 3	14°55	22°40	27°16	26°24	8°14	n.a.	S 27
S 28	8 13 51	5° 9'49	13° 6	19°R36	15°32	17°18	8°52	14°57	8° 0	14°57	22°41	27° 5	26°21	8°21	n.a.	S 28
M29	8 17 47	6°10'02	26°21	19°26	16°47	18° 5	9° 7	14°57	7°57	14°59	22°42	26°57	26°17	8°27	n.a.	M29
T 30	8 21 44	7°10'13	9♎48	19° 8	18° 1	18°52	9°21	14°57	7°55	15° 1	22°43	26°51	26°14	8°34	n.a.	T 30
W31	8 25 40	8♒10'22	23♎26	18♒40	19♒16	19♑39	9♒36	14♎56	7♌52	15♑ 3	22♓44	26♉48	26♉11	8♊41	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23s29	10n 6	4n57	24s55	1s59	24s16	1s 6	24s27	0s47	20s43	0s54	3s24	2n33	18n53	0n44	22s50	0n 8	18s44	17s 9	20n10	19n53	22n 7		n.a.
T 2	23 25	4 21	4 28	24 40	1 57	24 11	1 7	24 29	0 48	20 39	0 54	3 25	2 33	18 54	0 44	22 50	0 8	18 43	17 8	20 10	19 53	22 9		n.a.
W 3	23 20	1s44	3 44	24 24	1 54	24 5	1 9	24 30	0 48	20 36	0 54	3 26	2 33	18 55	0 44	22 50	0 8	18 43	17 8	20 10	19 52	22 11		n.a.
T 4	23 15	7 53	2 46	24 6	1 51	23 57	1 10	24 31	0 49	20 33	0 54	3 26	2 33	18 55	0 44	22 49	0 8	18 42	17 8	20 10	19 51	22 13		n.a.
F 5	23 10	13 47	1 36	23 45	1 47	23 50	1 11	24 32	0 49	20 30	0 54	3 27	2 34	18 56	0 44	22 49	0 8	18 42	17 7	20 10	19 50	22 15		n.a.
S 6	23 4	19 3	0 19	23 23	1 42	23 41	1 13	24 33	0 50	20 26	0 54	3 28	2 34	18 56	0 44	22 49	0 8	18 41	17 7	20 10	19 50	22 17		n.a.
S 7	22 58	23 15	1s 1	22 59	1 37	23 32	1 14	24 33	0 50	20 23	0 54	3 28	2 34	18 57	0 44	22 49	0 8	18 41	17 7	20 10	19 49	22 19		n.a.
M 8	22 52	25 54	2 17	22 33	1 31	23 22	1 15	24 33	0 51	20 20	0 54	3 29	2 34	18 58	0 44	22 49	0 8	18 40	17 6	20 10	19 48	22 21		n.a.
T 9	22 45	26 42	3 24	22 5	1 24	23 11	1 17	24 33	0 51	20 16	0 54	3 29	2 35	18 58	0 44	22 48	0 8	18 40	17 6	20 9	19 48	22 23		n.a.
W10	22 37	25 34	4 16	21 36	1 17	23 0	1 18	24 32	0 52	20 13	0 54	3 30	2 35	18 59	0 44	22 48	0 8	18 39	17 6	20 7	19 47	22 25		n.a.
T 11	22 29	22 42	4 51	21 5	1 9	22 48	1 19	24 31	0 52	20 10	0 54	3 30	2 35	19 0	0 44	22 48	0 8	18 38	17 5	20 5	19 46	22 27		n.a.
F 12	22 21	18 31	5 6	20 33	1 0	22 35	1 20	24 30	0 53	20 6	0 55	3 30	2 35	19 0	0 44	22 48	0 8	18 38	17 5	20 3	19 45	22 29		n.a.
S 13	22 12	13 28	5 3	19 59	0 50	22 21	1 21	24 29	0 53	20 3	0 55	3 31	2 36	19 1	0 44	22 47	0 8	18 37	17 5	20 2	19 45	22 31		n.a.
S 14	22 3	7 57	4 44	19 24	0 39	22 7	1 22	24 27	0 54	19 59	0 55	3 31	2 36	19 2	0 44	22 47	0 8	18 37	17 4	20 0	19 44	22 33		n.a.
M15	21 53	2 17	4 10	18 49	0 28	21 52	1 22	24 25	0 54	19 56	0 55	3 31	2 36	19 2	0 44	22 47	0 8	18 36	17 4	19 59	19 43	22 35		n.a.
T 16	21 43	3n20	3 26	18 13	0 16	21 37	1 23	24 23	0 55	19 52	0 55	3 31	2 36	19 3	0 44	22 47	0 8	18 35	17 4	19 59	19 42	22 37		n.a.
W17	21 32	8 41	2 33	17 36	0 3	21 21	1 24	24 21	0 55	19 49	0 55	3 31	2 37	19 4	0 44	22 46	0 8	18 35	17 3	19 59	19 42	22 39		n.a.
T 18	21 21	13 38	1 34	17 0	0n11	21 4	1 25	24 18	0 56	19 45	0 55	3 32	2 37	19 4	0 44	22 46	0 8	18 34	17 3	19 59	19 41	22 41		n.a.
F 19	21 10	18 2	0 32	16 25	0 25	20 47	1 25	24 15	0 56	19 41	0 55	3 32	2 37	19 5	0 44	22 46	0 8	18 34	17 3	19 59	19 40	22 43		n.a.
S 20	20 58	21 43	0n31	15 50	0 40	20 29	1 26	24 11	0 56	19 38	0 55	3 32	2 37	19 6	0 44	22 46	0 8	18 33	17 2	19 59	19 39	22 45		n.a.
S 21	20 46	24 30	1 33	15 16	0 55	20 10	1 26	24 7	0 57	19 34	0 55	3 32	2 38	19 6	0 44	22 45	0 8	18 32	17 2	19 59	19 39	22 47		n.a.
M22	20 34	26 13	2 31	14 44	1 11	19 51	1 26	24 4	0 57	19 30	0 55	3 32	2 38	19 7	0 44	22 45	0 8	18 32	17 2	19 58	19 38	22 49		n.a.
T 23	20 21	26 43	3 23	14 15	1 27	19 32	1 27	23 59	0 58	19 27	0 55	3 32	2 38	19 8	0 44	22 45	0 8	18 31	17 2	19 56	19 37	22 51		n.a.
W24	20 8	25 56	4 6	13 48	1 43	19 11	1 27	23 55	0 58	19 23	0 55	3 31	2 38	19 9	0 44	22 45	0 8	18 30	17 1	19 54	19 36	22 53		n.a.
T 25	19 54	23 52	4 39	13 23	1 59	18 51	1 27	23 50	0 59	19 19	0 55	3 31	2 39	19 9	0 44	22 45	0 8	18 30	17 1	19 52	19 36	22 55		n.a.
F 26	19 40	20 35	4 58	13 2	2 15	18 29	1 27	23 45	0 59	19 16	0 55	3 31	2 39	19 10	0 44	22 44	0 8	18 29	17 1	19 49	19 35	22 57		n.a.
S 27	19 26	16 17	5 2	12 44	2 30	18 8	1 28	23 40	0 59	19 12	0 55	3 31	2 39	19 11	0 44	22 44	0 8	18 29	17 0	19 46	19 34	22 59		n.a.
S 28	19 12	11 11	4 51	12 30	2 45	17 45	1 28	23 34	1 0	19 8	0 55	3 31	2 40	19 11	0 44	22 44	0 8	18 28	17 0	19 44	19 33	23 0		n.a.
M29	18 57	5 30	4 24	12 20	2 58	17 23	1 27	23 28	1 0	19 4	0 55	3 30	2 40	19 12	0 44	22 44	0 8	18 27	17 0	19 42	19 33	23 2		n.a.
T 30	18 41	0s32	3 42	12 14	3 11	16 59	1 27	23 22	1 0	19 0	0 55	3 30	2 40	19 13	0 44	22 43	0 8	18 27	17 0	19 41	19 32	23 4		n.a.
W31	18s26	6s37	2n47	12s12	3n22	16s36	1s27	23s15	1s 1	18s56	0s55	3s29	2n40	19n13	0n44	22s43	0n 8	18s26	16s59	19n40	19n31	23n 6		n.a.

Julian Day Number = 1671018.5, Delta T = 03h20m33s
Ecliptic obliquity = 23°42'47, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'19, Lahiri = - 5°51'18 Julian Calendar 1 Jan. 138 BCE == Greg. Calendar 29 Dec. 139 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

FEBRUARY 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 37	9♒10'30	7♏15	18°R 4	20♒31	20♑27	9♒50	14°R56	7°R49	15♑ 6	22♓45	26°D47	26♉ 8	8♊47	n.a.	T 1
F 2	8 33 33	10°10'37	21°17	17♒21	21°45	21°14	10° 5	14♎55	7♌47	15° 8	22°46	26°R47	26° 5	8°54	n.a.	F 2
S 3	8 37 30	11°10'42	5♐29	16°32	23° 0	22° 1	10°19	14°55	7°44	15°10	22°47	26♉47	26° 2	9° 1	n.a.	S 3
S 4	8 41 26	12°10'45	19°52	15°38	24°15	22°48	10°34	14°54	7°42	15°12	22°48	26°46	25°58	9° 7	n.a.	S 4
M 5	8 45 23	13°10'46	4♑23	14°40	25°29	23°35	10°48	14°53	7°39	15°14	22°49	26°41	25°55	9°14	n.a.	M 5
T 6	8 49 20	14°10'46	18°56	13°40	26°44	24°22	11° 3	14°52	7°36	15°16	22°51	26°34	25°52	9°21	n.a.	T 6
W 7	8 53 16	15°10'44	3♒26	12°40	27°59	25° 9	11°17	14°51	7°34	15°18	22°52	26°24	25°49	9°27	n.a.	W 7
T 8	8 57 13	16°10'40	17°45	11°40	29°13	25°56	11°32	14°49	7°31	15°20	22°53	26°13	25°46	9°34	n.a.	T 8
F 9	9 1 9	17°10'33	1♓49	10°42	0♓28	26°43	11°46	14°48	7°29	15°22	22°54	26° 0	25°43	9°41	n.a.	F 9
S 10	9 5 6	18°10'25	15°31	9°47	1°42	27°30	12° 0	14°47	7°26	15°24	22°55	25°48	25°39	9°47	n.a.	S 10
S 11	9 9 2	19°10'14	28°49	8°56	2°57	28°17	12°15	14°45	7°23	15°26	22°56	25°39	25°36	9°54	n.a.	S 11
M12	9 12 59	20°10'01	11♈42	8°10	4°11	29° 5	12°29	14°44	7°21	15°28	22°58	25°31	25°33	10° 0	n.a.	M12
T 13	9 16 55	21° 9'46	24°14	7°29	5°26	29°52	12°44	14°42	7°18	15°30	22°59	25°26	25°30	10° 7	n.a.	T 13
W14	9 20 52	22° 9'28	6♉27	6°54	6°40	0♒39	12°58	14°40	7°16	15°32	23° 0	25°24	25°27	10°14	n.a.	W14
T 15	9 24 49	23° 9'08	18°26	6°25	7°55	1°26	13°12	14°38	7°13	15°34	23° 1	25°24	25°23	10°20	n.a.	T 15
F 16	9 28 45	24° 8'45	0♊16	6° 3	9° 9	2°13	13°27	14°36	7°11	15°36	23° 3	25°24	25°20	10°27	n.a.	F 16
S 17	9 32 42	25° 8'21	12° 4	5°47	10°23	3° 0	13°41	14°34	7° 8	15°38	23° 4	25°23	25°17	10°34	n.a.	S 17
S 18	9 36 38	26° 7'54	23°54	5°37	11°38	3°47	13°55	14°32	7° 6	15°39	23° 5	25°21	25°14	10°40	n.a.	S 18
M19	9 40 35	27° 7'24	5♋51	5°D33	12°52	4°34	14°10	14°30	7° 4	15°41	23° 6	25°16	25°11	10°47	n.a.	M19
T 20	9 44 31	28° 6'53	18° 1	5°35	14° 6	5°21	14°24	14°27	7° 1	15°43	23° 8	25° 9	25° 8	10°54	n.a.	T 20
W21	9 48 28	29° 6'19	0♌25	5°43	15°20	6° 8	14°38	14°25	6°59	15°45	23° 9	24°59	25° 4	11° 0	n.a.	W21
T 22	9 52 24	0♓ 5'42	13° 5	5°56	16°34	6°54	14°52	14°23	6°56	15°47	23°10	24°47	25° 1	11° 7	n.a.	T 22
F 23	9 56 21	1° 5'03	26° 3	6°15	17°49	7°41	15° 6	14°20	6°54	15°48	23°12	24°34	24°58	11°14	n.a.	F 23
S 24	10 0 18	2° 4'23	9♍17	6°38	19° 3	8°28	15°21	14°17	6°52	15°50	23°13	24°21	24°55	11°20	n.a.	S 24
S 25	10 4 14	3° 3'40	22°45	7° 7	20°17	9°15	15°35	14°15	6°50	15°52	23°14	24° 9	24°52	11°27	n.a.	S 25
M26	10 8 11	4° 2'54	6♎24	7°39	21°31	10° 2	15°49	14°12	6°47	15°54	23°16	24° 0	24°48	11°34	n.a.	M26
T 27	10 12 7	5° 2'07	20°13	8°16	22°45	10°49	16° 3	14° 9	6°45	15°55	23°17	23°54	24°45	11°40	n.a.	T 27
W28	10 16 4	6♓ 1'18	4♏ 8	8♒57	23♓59	11♒36	16♒17	14♎ 6	6♌43	15♑57	23♓18	23♉50	24♉42	11♊47	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	18s10	12s29	1n42	12s14	3n31	16s11	1s27	23s 9	1s 1	18s53	0s55	3s29	2n41	19n14	0n44	22s43	0n 8	18s25	16s59	19n40	19n30	23n 8		n.a.	T 1
F 2	17 54	17 49	0 29	12 20	3 39	15 47	1 27	23 2	1 2	18 49	0 56	3 29	2 41	19 15	0 44	22 43	0 8	18 25	16 59	19 40	19 30	23 10		n.a.	F 2
S 3	17 37	22 13	0s46	12 29	3 45	15 22	1 26	22 55	1 2	18 45	0 56	3 28	2 41	19 15	0 44	22 42	0 8	18 24	16 59	19 40	19 29	23 12		n.a.	S 3
S 4	17 20	25 18	1 59	12 42	3 49	14 56	1 26	22 47	1 2	18 41	0 56	3 28	2 41	19 16	0 44	22 42	0 8	18 23	16 58	19 39	19 28	23 14		n.a.	S 4
M 5	17 3	26 43	3 5	12 57	3 50	14 30	1 25	22 39	1 3	18 37	0 56	3 27	2 42	19 17	0 44	22 42	0 8	18 23	16 58	19 38	19 27	23 16		n.a.	M 5
T 6	16 46	26 18	3 59	13 15	3 50	14 4	1 25	22 31	1 3	18 33	0 56	3 26	2 42	19 17	0 44	22 42	0 8	18 22	16 58	19 37	19 27	23 18		n.a.	T 6
W 7	16 28	24 6	4 37	13 34	3 47	13 38	1 24	22 23	1 3	18 29	0 56	3 26	2 42	19 18	0 44	22 42	0 8	18 21	16 58	19 34	19 26	23 19		n.a.	W 7
T 8	16 10	20 24	4 57	13 55	3 43	13 11	1 23	22 15	1 4	18 25	0 56	3 25	2 42	19 19	0 44	22 41	0 8	18 21	16 57	19 32	19 25	23 21		n.a.	T 8
F 9	15 52	15 36	4 59	14 17	3 36	12 43	1 23	22 6	1 4	18 21	0 56	3 24	2 43	19 20	0 44	22 41	0 8	18 20	16 57	19 29	19 24	23 23		n.a.	F 9
S 10	15 33	10 7	4 43	14 40	3 28	12 16	1 22	21 57	1 4	18 17	0 56	3 23	2 43	19 20	0 44	22 41	0 8	18 19	16 57	19 26	19 24	23 25		n.a.	S 10
S 11	15 15	4 20	4 12	15 2	3 19	11 48	1 21	21 48	1 5	18 13	0 56	3 23	2 43	19 21	0 44	22 41	0 8	18 19	16 57	19 23	19 23	23 27		n.a.	S 11
M12	14 56	1n28	3 29	15 25	3 8	11 19	1 20	21 38	1 5	18 9	0 56	3 22	2 43	19 21	0 44	22 40	0 8	18 18	16 57	19 22	19 22	23 29		n.a.	M12
T 13	14 36	7 4	2 37	15 47	2 56	10 51	1 19	21 28	1 5	18 5	0 56	3 21	2 43	19 22	0 44	22 40	0 8	18 17	16 56	19 20	19 21	23 31		n.a.	T 13
W14	14 17	12 16	1 39	16 8	2 43	10 22	1 18	21 18	1 5	18 1	0 56	3 20	2 44	19 23	0 44	22 40	0 8	18 17	16 56	19 20	19 21	23 32		n.a.	W14
T 15	13 57	16 55	0 37	16 28	2 30	9 53	1 17	21 8	1 6	17 57	0 57	3 19	2 44	19 23	0 44	22 40	0 8	18 16	16 56	19 20	19 20	23 34		n.a.	T 15
F 16	13 37	20 52	0n26	16 47	2 16	9 24	1 16	20 58	1 6	17 53	0 57	3 18	2 44	19 24	0 44	22 40	0 8	18 15	16 56	19 20	19 19	23 36		n.a.	F 16
S 17	13 17	23 56	1 27	17 4	2 2	8 54	1 14	20 47	1 6	17 49	0 57	3 17	2 44	19 25	0 44	22 39	0 8	18 15	16 56	19 20	19 18	23 38		n.a.	S 17
S 18	12 57	25 59	2 25	17 21	1 48	8 24	1 13	20 36	1 7	17 45	0 57	3 16	2 45	19 25	0 44	22 39	0 8	18 14	16 56	19 19	19 17	23 40		n.a.	S 18
M19	12 37	26 51	3 17	17 35	1 33	7 54	1 12	20 25	1 7	17 41	0 57	3 15	2 45	19 26	0 44	22 39	0 8	18 13	16 55	19 18	19 17	23 41		n.a.	M19
T 20	12 16	26 27	4 0	17 49	1 19	7 24	1 10	20 14	1 7	17 36	0 57	3 14	2 45	19 27	0 44	22 39	0 8	18 13	16 55	19 16	19 16	23 43		n.a.	T 20
W21	11 55	24 44	4 34	18 0	1 5	6 54	1 9	20 2	1 7	17 32	0 57	3 13	2 45	19 27	0 44	22 39	0 8	18 12	16 55	19 14	19 15	23 45		n.a.	W21
T 22	11 34	21 46	4 54	18 11	0 51	6 23	1 7	19 51	1 7	17 28	0 57	3 12	2 45	19 28	0 44	22 38	0 8	18 11	16 55	19 11	19 14	23 47		n.a.	T 22
F 23	11 13	17 40	5 0	18 19	0 38	5 52	1 5	19 39	1 8	17 24	0 57	3 10	2 46	19 28	0 44	22 38	0 8	18 11	16 55	19 8	19 14	23 49		n.a.	F 23
S 24	10 51	12 39	4 50	18 26	0 25	5 22	1 4	19 27	1 8	17 20	0 57	3 9	2 46	19 29	0 44	22 38	0 8	18 10	16 55	19 4	19 13	23 50		n.a.	S 24
S 25	10 30	6 57	4 24	18 31	0 12	4 51	1 2	19 14	1 8	17 16	0 58	3 8	2 46	19 29	0 44	22 38	0 8	18 9	16 54	19 2	19 12	23 52		n.a.	S 25
M26	10 8	0 50	3 43	18 35	0s 1	4 19	1 0	19 2	1 8	17 12	0 58	3 7	2 46	19 30	0 44	22 38	0 8	18 9	16 54	18 59	19 11	23 54		n.a.	M26
T 27	9 46	5s24	2 48	18 37	0 13	3 48	0 58	18 49	1 9	17 8	0 58	3 5	2 46	19 31	0 44	22 37	0 8	18 8	16 54	18 58	19 10	23 56		n.a.	T 27
W28	9s24	11s26	1n42	18s37	0s24	3s17	0s57	18s36	1s 9	17s 3	0s58	3s 4	2n47	19n31	0n44	22s37	0n 8	18s 7	16s54	18n57	19n10	23n58		n.a.	W28

Julian Day Number = 1671049.5, Delta T = 03h20m32s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'14, Lahiri = - 5°51'14 Julian Calendar 1 Feb. 138 BCE == Greg. Calendar 29 Jan. 138 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

MARCH 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 0	7♓ 0'28	18♏ 8	9♒41	25♓13	12♒23	16♒31	14°R 3	6°R41	15♑58	23♓20	23°D49	24♉39	11♊54	n.a.	T 1
F 2	10 23 57	7°59'35	2♐11	10°29	26°27	13° 9	16°45	14♎ 0	6♌39	16° 0	23°21	23°R49	24°36	12° 0	n.a.	F 2
S 3	10 27 53	8°58'41	16°18	11°20	27°41	13°56	16°59	13°56	6°36	16° 2	23°22	23♉49	24°33	12° 7	n.a.	S 3
S 4	10 31 50	9°57'45	0♑26	12°15	28°54	14°43	17°13	13°53	6°34	16° 3	23°24	23°48	24°29	12°13	n.a.	S 4
M 5	10 35 46	10°56'47	14°36	13°12	0♈ 8	15°30	17°27	13°50	6°32	16° 5	23°25	23°44	24°26	12°20	n.a.	M 5
T 6	10 39 43	11°55'47	28°43	14°12	1°22	16°16	17°40	13°46	6°30	16° 6	23°27	23°37	24°23	12°27	n.a.	T 6
W 7	10 43 40	12°54'45	12♒46	15°15	2°36	17° 3	17°54	13°43	6°28	16° 8	23°28	23°28	24°20	12°33	n.a.	W 7
T 8	10 47 36	13°53'41	26°39	16°21	3°50	17°50	18° 8	13°39	6°26	16° 9	23°29	23°18	24°17	12°40	n.a.	T 8
F 9	10 51 33	14°52'35	10♓20	17°28	5° 3	18°36	18°22	13°36	6°25	16°10	23°31	23° 6	24°14	12°47	n.a.	F 9
S 10	10 55 29	15°51'27	23°44	18°39	6°17	19°23	18°35	13°32	6°23	16°12	23°32	22°55	24°10	12°53	n.a.	S 10
S 11	10 59 26	16°50'17	6♈50	19°51	7°31	20°10	18°49	13°28	6°21	16°13	23°34	22°46	24° 7	13° 0	n.a.	S 11
M12	11 3 22	17°49'05	19°36	21° 6	8°44	20°56	19° 3	13°25	6°19	16°14	23°35	22°39	24° 4	13° 7	n.a.	M12
T 13	11 7 19	18°47'50	2♉ 4	22°22	9°58	21°43	19°16	13°21	6°17	16°16	23°36	22°34	24° 1	13°13	n.a.	T 13
W14	11 11 15	19°46'33	14°15	23°41	11°11	22°29	19°30	13°17	6°16	16°17	23°38	22°32	23°58	13°20	n.a.	W14
T 15	11 15 12	20°45'14	26°14	25° 2	12°25	23°16	19°43	13°13	6°14	16°18	23°39	22°D32	23°54	13°27	n.a.	T 15
F 16	11 19 9	21°43'53	8♊ 6	26°24	13°38	24° 2	19°56	13° 9	6°12	16°19	23°41	22°33	23°51	13°33	n.a.	F 16
S 17	11 23 5	22°42'29	19°54	27°49	14°52	24°49	20°10	13° 5	6°11	16°21	23°42	22°R33	23°48	13°40	n.a.	S 17
S 18	11 27 2	23°41'04	1♋45	29°15	16° 5	25°35	20°23	13° 1	6° 9	16°22	23°43	22°33	23°45	13°47	n.a.	S 18
M19	11 30 58	24°39'35	13°45	0♓43	17°19	26°21	20°36	12°57	6° 8	16°23	23°45	22°31	23°42	13°53	n.a.	M19
T 20	11 34 55	25°38'05	25°57	2°13	18°32	27° 8	20°49	12°52	6° 7	16°24	23°46	22°27	23°39	14° 0	n.a.	T 20
W21	11 38 51	26°36'32	8♌26	3°45	19°45	27°54	21° 2	12°48	6° 5	16°25	23°48	22°20	23°35	14° 7	n.a.	W21
T 22	11 42 48	27°34'58	21°14	5°18	20°58	28°40	21°15	12°44	6° 4	16°26	23°49	22°12	23°32	14°13	n.a.	T 22
F 23	11 46 44	28°33'20	4♍24	6°53	22°12	29°26	21°28	12°40	6° 3	16°27	23°51	22° 3	23°29	14°20	n.a.	F 23
S 24	11 50 41	29°31'41	17°55	8°30	23°25	0♓12	21°41	12°35	6° 1	16°28	23°52	21°54	23°26	14°27	n.a.	S 24
S 25	11 54 37	0♈30'00	1♎44	10° 9	24°38	0°59	21°54	12°31	6° 0	16°29	23°53	21°46	23°23	14°33	n.a.	S 25
M26	11 58 34	1°28'17	15°49	11°49	25°51	1°45	22° 7	12°27	5°59	16°30	23°55	21°40	23°20	14°40	n.a.	M26
T 27	12 2 31	2°26'32	0♏ 3	13°31	27° 4	2°31	22°19	12°22	5°58	16°31	23°56	21°36	23°16	14°47	n.a.	T 27
W28	12 6 27	3°24'46	14°23	15°15	28°17	3°17	22°32	12°18	5°57	16°32	23°58	21°34	23°13	14°53	n.a.	W28
T 29	12 10 24	4°22'57	28°45	17° 0	29°30	4° 3	22°45	12°14	5°56	16°32	23°59	21°D34	23°10	15° 0	n.a.	T 29
F 30	12 14 20	5°21'08	13♐ 3	18°48	0♑43	4°49	22°57	12° 9	5°55	16°33	24° 0	21°35	23° 7	15° 6	n.a.	F 30
S 31	12 18 17	6♈19'17	27♐17	20♓37	1♉55	5♓35	23♒10	12♎ 5	5♌54	16♑34	24♓ 2	21♉36	23♉ 4	15♊13	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	9s 2	16s57	0n30	18s36	0s35	2s45	0s55	18s23	1s 9	16s59	0s58	3s 3	2n47	19n32	0n44	22s37	0n 8	18s 7	16s54	18n56	19n 9	23n59			n.a.
F 2	8 40	21 34	0s44	18 33	0 46	2 14	0 53	18 10	1 9	16 55	0 58	3 1	2 47	19 32	0 44	22 37	0 8	18 6	16 54	18 56	19 8	24 1			n.a.
S 3	8 18	24 56	1 56	18 28	0 56	1 42	0 51	17 56	1 9	16 51	0 58	3 0	2 47	19 33	0 44	22 37	0 8	18 5	16 54	18 56	19 7	24 3			n.a.
S 4	7 55	26 44	3 1	18 22	1 5	1 11	0 49	17 43	1 9	16 47	0 58	2 58	2 47	19 33	0 44	22 37	0 8	18 5	16 54	18 56	19 7	24 4			n.a.
M 5	7 33	26 48	3 55	18 14	1 14	0 39	0 46	17 29	1 10	16 43	0 59	2 57	2 47	19 34	0 44	22 36	0 8	18 4	16 54	18 55	19 6	24 6			n.a.
T 6	7 10	25 7	4 34	18 5	1 23	0 8	0 44	17 15	1 10	16 38	0 59	2 55	2 48	19 34	0 44	22 36	0 8	18 3	16 54	18 54	19 5	24 8			n.a.
W 7	6 47	21 54	4 57	17 53	1 31	0n24	0 42	17 1	1 10	16 34	0 59	2 54	2 48	19 35	0 44	22 36	0 8	18 3	16 53	18 51	19 4	24 10			n.a.
T 8	6 24	17 29	5 1	17 41	1 38	0 56	0 40	16 46	1 10	16 30	0 59	2 52	2 48	19 35	0 44	22 36	0 8	18 2	16 53	18 49	19 3	24 11			n.a.
F 9	6 1	12 13	4 49	17 27	1 45	1 27	0 38	16 32	1 10	16 26	0 59	2 51	2 48	19 36	0 44	22 36	0 8	18 2	16 53	18 46	19 3	24 13			n.a.
S 10	5 38	6 29	4 20	17 11	1 52	1 59	0 35	16 17	1 10	16 22	0 59	2 49	2 48	19 36	0 44	22 36	0 8	18 1	16 53	18 43	19 2	24 15			n.a.
S 11	5 15	0 35	3 38	16 53	1 58	2 31	0 33	16 2	1 10	16 18	0 59	2 48	2 48	19 36	0 44	22 35	0 8	18 0	16 53	18 40	19 1	24 16			n.a.
M12	4 52	5n12	2 46	16 34	2 3	3 2	0 31	15 48	1 10	16 13	0 59	2 46	2 48	19 37	0 44	22 35	0 8	18 0	16 53	18 39	19 0	24 18			n.a.
T 13	4 29	10 39	1 47	16 14	2 8	3 34	0 28	15 32	1 11	16 9	1 0	2 44	2 49	19 37	0 44	22 35	0 8	17 59	16 53	18 37	18 59	24 20			n.a.
W14	4 6	15 36	0 44	15 52	2 13	4 5	0 26	15 17	1 11	16 5	1 0	2 43	2 49	19 38	0 44	22 35	0 8	17 59	16 53	18 37	18 59	24 21			n.a.
T 15	3 42	19 51	0n20	15 28	2 16	4 36	0 23	15 2	1 11	16 1	1 0	2 41	2 49	19 38	0 44	22 35	0 8	17 58	16 53	18 37	18 58	24 23			n.a.
F 16	3 19	23 16	1 22	15 3	2 20	5 8	0 21	14 46	1 11	15 57	1 0	2 40	2 49	19 38	0 44	22 35	0 8	17 57	16 53	18 37	18 57	24 25			n.a.
S 17	2 56	25 40	2 21	14 36	2 23	5 39	0 18	14 31	1 11	15 53	1 0	2 38	2 49	19 39	0 44	22 34	0 8	17 57	16 53	18 37	18 56	24 26			n.a.
S 18	2 32	26 56	3 14	14 7	2 25	6 10	0 15	14 15	1 11	15 49	1 0	2 36	2 49	19 39	0 44	22 34	0 8	17 56	16 53	18 37	18 55	24 28			n.a.
M19	2 9	26 57	3 59	13 37	2 27	6 41	0 13	13 59	1 11	15 45	1 0	2 34	2 49	19 40	0 44	22 34	0 8	17 56	16 53	18 37	18 55	24 30			n.a.
T 20	1 45	25 41	4 34	13 6	2 28	7 11	0 10	13 43	1 11	15 40	1 1	2 33	2 49	19 40	0 44	22 34	0 8	17 55	16 53	18 35	18 54	24 31			n.a.
W21	1 22	23 8	4 57	12 33	2 29	7 42	0 8	13 27	1 11	15 36	1 1	2 31	2 49	19 40	0 44	22 34	0 8	17 54	16 53	18 34	18 53	24 33			n.a.
T 22	0 58	19 24	5 6	11 59	2 29	8 12	0 5	13 11	1 11	15 32	1 1	2 29	2 49	19 41	0 44	22 34	0 8	17 54	16 53	18 32	18 52	24 35			n.a.
F 23	0 35	14 38	4 59	11 23	2 29	8 42	0 2	12 54	1 11	15 28	1 1	2 28	2 50	19 41	0 44	22 34	0 8	17 53	16 53	18 29	18 51	24 36			n.a.
S 24	0 11	9 2	4 35	10 45	2 28	9 12	0n 1	12 38	1 11	15 24	1 1	2 26	2 50	19 41	0 44	22 34	0 8	17 53	16 53	18 27	18 51	24 38			n.a.
S 25	0n12	2 53	3 55	10 6	2 26	9 42	0 3	12 21	1 11	15 20	1 1	2 24	2 50	19 41	0 44	22 34	0 8	17 52	16 53	18 25	18 50	24 39			n.a.
M26	0 36	3s31	3 0	9 26	2 24	10 11	0 6	12 5	1 11	15 16	1 2	2 22	2 50	19 42	0 44	22 33	0 8	17 52	16 53	18 23	18 49	24 41			n.a.
T 27	0 59	9 51	1 53	8 44	2 22	10 41	0 9	11 48	1 11	15 12	1 2	2 21	2 50	19 42	0 44	22 33	0 8	17 51	16 53	18 22	18 48	24 43			n.a.
W28	1 22	15 44	0 39	8 0	2 19	11 10	0 12	11 31	1 11	15 8	1 2	2 19	2 50	19 42	0 43	22 33	0 8	17 51	16 53	18 22	18 47	24 44			n.a.
T 29	1 46	20 44	0s39	7 16	2 15	11 39	0 14	11 14	1 11	15 4	1 2	2 17	2 50	19 42	0 43	22 33	0 7	17 50	16 53	18 22	18 47	24 46			n.a.
F 30	2 9	24 30	1 54	6 29	2 11	12 7	0 17	10 57	1 11	15 0	1 2	2 15	2 50	19 43	0 43	22 33	0 7	17 50	16 53	18 22	18 46	24 47			n.a.
S 31	2n32	26s42	3s 1	5s42	2s 6	12n35	0n20	10s40	1s11	14s56	1s 2	2s13	2n50	19n43	0n43	22s33	0n 7	17s49	16s53	18n22	18n45	24n49			n.a.

Julian Day Number = 1671077.5, Delta T = 03h20m31s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'11, Lahiri = - 5°51'10 Julian Calendar 1 March 138 BCE == Greg. Calendar 26 Feb. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

APRIL 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 22 13	7♈17'24	11♉24	22♓27	3♉ 8	6♓20	23♒22	12°R 0	5°R53	16♉35	24♓ 3	21°R36	23♉ 0	15♊20	n.a.	S 1
M 2	12 26 10	8°15'30	25°23	24°20	4°21	7° 6	23°34	11♎56	5♌52	16°35	24° 5	21♉35	22°57	15°26	n.a.	M 2
T 3	12 30 6	9°13'34	9♒13	26°14	5°34	7°52	23°46	11°51	5°51	16°36	24° 6	21°32	22°54	15°33	n.a.	T 3
W 4	12 34 3	10°11'37	22°52	28°10	6°46	8°38	23°58	11°47	5°51	16°37	24° 7	21°27	22°51	15°40	n.a.	W 4
T 5	12 38 0	11° 9'38	6♓20	0♈ 8	7°59	9°24	24°11	11°42	5°50	16°37	24° 9	21°21	22°48	15°46	n.a.	T 5
F 6	12 41 56	12° 7'38	19°35	2° 7	9°12	10° 9	24°22	11°38	5°50	16°38	24°10	21°14	22°45	15°53	n.a.	F 6
S 7	12 45 53	13° 5'36	2♈36	4° 8	10°24	10°55	24°34	11°33	5°49	16°38	24°11	21° 8	22°41	16° 0	n.a.	S 7
S 8	12 49 49	14° 3'32	15°22	6°11	11°37	11°40	24°46	11°29	5°48	16°39	24°13	21° 2	22°38	16° 6	n.a.	S 8
M 9	12 53 46	15° 1'27	27°54	8°15	12°49	12°26	24°58	11°24	5°48	16°39	24°14	20°58	22°35	16°13	n.a.	M 9
T 10	12 57 42	15°59'20	10♉12	10°21	14° 2	13°11	25° 9	11°20	5°48	16°40	24°15	20°56	22°32	16°20	n.a.	T 10
W11	13 1 39	16°57'11	22°17	12°28	15°14	13°57	25°21	11°15	5°47	16°40	24°17	20°D56	22°29	16°26	n.a.	W11
T 12	13 5 35	17°55'01	4♊14	14°36	16°26	14°42	25°32	11°11	5°47	16°40	24°18	20°56	22°25	16°33	n.a.	T 12
F 13	13 9 32	18°52'49	16° 4	16°45	17°39	15°28	25°44	11° 6	5°47	16°41	24°19	20°58	22°22	16°40	n.a.	F 13
S 14	13 13 29	19°50'35	27°52	18°55	18°51	16°13	25°55	11° 2	5°47	16°41	24°21	21° 0	22°19	16°46	n.a.	S 14
S 15	13 17 25	20°48'20	9♋44	21° 5	20° 3	16°58	26° 6	10°58	5°46	16°41	24°22	21° 1	22°16	16°53	n.a.	S 15
M16	13 21 22	21°46'03	21°43	23°16	21°15	17°43	26°17	10°53	5°46	16°42	24°23	21°R 2	22°13	17° 0	n.a.	M16
T 17	13 25 18	22°43'44	3♌55	25°27	22°27	18°29	26°28	10°49	5°D46	16°42	24°24	21° 1	22°10	17° 6	n.a.	T 17
W18	13 29 15	23°41'23	16°24	27°38	23°39	19°14	26°39	10°45	5°46	16°42	24°26	20°59	22° 6	17°13	n.a.	W18
T 19	13 33 11	24°39'01	29°14	29°48	24°51	19°59	26°50	10°40	5°46	16°42	24°27	20°56	22° 3	17°20	n.a.	T 19
F 20	13 37 8	25°36'37	12♍27	1♉57	26° 3	20°44	27° 1	10°36	5°47	16°42	24°28	20°53	22° 0	17°26	n.a.	F 20
S 21	13 41 4	26°34'11	26° 6	4° 6	27°15	21°29	27°11	10°32	5°47	16°42	24°29	20°49	21°57	17°33	n.a.	S 21
S 22	13 45 1	27°31'44	10♎ 7	6°13	28°27	22°13	27°22	10°27	5°47	16°42	24°31	20°46	21°54	17°40	n.a.	S 22
M23	13 48 58	28°29'16	24°29	8°19	29°38	22°58	27°32	10°23	5°47	16°R42	24°32	20°44	21°51	17°46	n.a.	M23
T 24	13 52 54	29°26'46	9♏ 6	10°23	0♊50	23°43	27°42	10°19	5°48	16°42	24°33	20°42	21°47	17°53	n.a.	T 24
W25	13 56 51	0♉24'16	23°51	12°25	2° 2	24°28	27°52	10°15	5°48	16°42	24°34	20°D42	21°44	18° 0	n.a.	W25
T 26	14 0 47	1°21'44	8♐37	14°25	3°13	25°12	28° 2	10°11	5°49	16°42	24°35	20°43	21°41	18° 6	n.a.	T 26
F 27	14 4 44	2°19'11	23°19	16°23	4°25	25°57	28°12	10° 7	5°49	16°42	24°37	20°44	21°38	18°13	n.a.	F 27
S 28	14 8 40	3°16'37	7♑49	18°18	5°36	26°42	28°22	10° 3	5°50	16°42	24°38	20°45	21°35	18°20	n.a.	S 28
S 29	14 12 37	4°14'03	22° 6	20°10	6°48	27°26	28°32	9°59	5°50	16°42	24°39	20°46	21°31	18°26	n.a.	S 29
M30	14 16 33	5♉11'28	6♒ 6	22♉ 1	7♊59	28♓11	28♒41	9♎55	5♌51	16♑42	24♓40	20°R46	21♉28	18♊33	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n55	27s 9	3s57	4s53	2s 1	13n 3	0n23	10s23	1s11	14s52	1s 3	2s12	2n50	19n43	0n43	22s33	0n 7	17s49	16s53	18n22	18n44	24n51		n.a.
M 2	3 19	25 51	4 38	4 3	1 56	13 31	0 25	10 6	1 11	14 48	1 3	2 10	2 50	19 43	0 43	22 33	0 7	17 48	16 53	18 22	18 43	24 52		n.a.
T 3	3 42	23 0	5 2	3 11	1 49	13 58	0 28	9 48	1 11	14 44	1 3	2 8	2 50	19 43	0 43	22 33	0 7	17 48	16 54	18 21	18 43	24 54		n.a.
W 4	4 5	18 54	5 9	2 18	1 43	14 25	0 31	9 31	1 11	14 40	1 3	2 6	2 50	19 43	0 43	22 33	0 7	17 47	16 54	18 20	18 42	24 55		n.a.
T 5	4 28	13 54	4 59	1 24	1 36	14 52	0 34	9 14	1 11	14 37	1 3	2 5	2 50	19 44	0 43	22 33	0 7	17 47	16 54	18 18	18 41	24 57		n.a.
F 6	4 51	8 20	4 33	0 29	1 28	15 18	0 37	8 56	1 11	14 33	1 4	2 3	2 50	19 44	0 43	22 33	0 7	17 46	16 54	18 17	18 40	24 58		n.a.
S 7	5 14	2 30	3 53	0n27	1 20	15 44	0 39	8 38	1 10	14 29	1 4	2 1	2 50	19 44	0 43	22 32	0 7	17 46	16 54	18 15	18 39	25 0		n.a.
S 8	5 36	3n20	3 1	1 24	1 11	16 9	0 42	8 21	1 10	14 25	1 4	1 59	2 50	19 44	0 43	22 32	0 7	17 45	16 54	18 13	18 38	25 1		n.a.
M 9	5 59	8 57	2 2	2 22	1 2	16 34	0 45	8 3	1 10	14 21	1 4	1 58	2 50	19 44	0 43	22 32	0 7	17 45	16 54	18 12	18 38	25 3		n.a.
T 10	6 22	14 7	0 58	3 20	0 53	16 59	0 48	7 45	1 10	14 18	1 4	1 56	2 50	19 44	0 43	22 32	0 7	17 45	16 54	18 12	18 37	25 4		n.a.
W11	6 44	18 40	0n 7	4 19	0 43	17 23	0 50	7 28	1 10	14 14	1 5	1 54	2 50	19 44	0 43	22 32	0 7	17 44	16 54	18 12	18 36	25 6		n.a.
T 12	7 6	22 25	1 12	5 19	0 33	17 47	0 53	7 10	1 10	14 10	1 5	1 52	2 50	19 44	0 43	22 32	0 7	17 44	16 55	18 12	18 35	25 7		n.a.
F 13	7 29	25 11	2 13	6 18	0 23	18 11	0 56	6 52	1 10	14 6	1 5	1 51	2 50	19 44	0 43	22 32	0 7	17 43	16 55	18 12	18 34	25 9		n.a.
S 14	7 51	26 50	3 9	7 18	0 12	18 34	0 58	6 34	1 10	14 3	1 5	1 49	2 50	19 44	0 43	22 32	0 7	17 43	16 55	18 13	18 34	25 10		n.a.
S 15	8 13	27 17	3 56	8 17	0 2	18 56	1 1	6 16	1 9	13 59	1 5	1 47	2 50	19 44	0 43	22 32	0 7	17 43	16 55	18 13	18 33	25 12		n.a.
M16	8 35	26 27	4 34	9 17	0n 9	19 18	1 4	5 58	1 9	13 55	1 6	1 46	2 50	19 44	0 43	22 32	0 7	17 42	16 55	18 13	18 32	25 13		n.a.
T 17	8 56	24 21	5 0	10 15	0 19	19 39	1 6	5 40	1 9	13 52	1 6	1 44	2 50	19 44	0 43	22 32	0 7	17 42	16 55	18 13	18 31	25 15		n.a.
W18	9 18	21 4	5 13	11 13	0 30	20 0	1 9	5 22	1 9	13 48	1 6	1 42	2 49	19 44	0 43	22 32	0 7	17 41	16 55	18 13	18 30	25 16		n.a.
T 19	9 39	16 43	5 11	12 9	0 40	20 21	1 11	5 4	1 9	13 45	1 6	1 41	2 49	19 44	0 43	22 32	0 7	17 41	16 56	18 12	18 29	25 18		n.a.
F 20	10 1	11 27	4 52	13 4	0 50	20 41	1 14	4 46	1 8	13 41	1 6	1 39	2 49	19 44	0 43	22 32	0 7	17 41	16 56	18 11	18 29	25 19		n.a.
S 21	10 22	5 29	4 17	13 58	1 0	21 0	1 16	4 28	1 8	13 38	1 7	1 37	2 49	19 44	0 43	22 32	0 7	17 40	16 56	18 10	18 28	25 20		n.a.
S 22	10 43	0s55	3 25	14 50	1 9	21 19	1 18	4 10	1 8	13 34	1 7	1 36	2 49	19 44	0 43	22 32	0 7	17 40	16 56	18 9	18 27	25 22		n.a.
M23	11 4	7 26	2 19	15 40	1 18	21 37	1 21	3 51	1 8	13 31	1 7	1 34	2 49	19 44	0 43	22 32	0 7	17 40	16 56	18 8	18 26	25 23		n.a.
T 24	11 24	13 41	1 4	16 29	1 27	21 55	1 23	3 33	1 8	13 28	1 7	1 33	2 49	19 44	0 43	22 32	0 7	17 39	16 56	18 8	18 25	25 25		n.a.
W25	11 45	19 14	0s17	17 15	1 35	22 12	1 25	3 15	1 7	13 24	1 8	1 31	2 49	19 43	0 43	22 32	0 7	17 39	16 57	18 8	18 24	25 26		n.a.
T 26	12 5	23 36	1 37	17 58	1 42	22 28	1 28	2 57	1 7	13 21	1 8	1 30	2 49	19 43	0 43	22 32	0 7	17 39	16 57	18 8	18 24	25 28		n.a.
F 27	12 25	26 23	2 51	18 40	1 49	22 44	1 30	2 39	1 7	13 18	1 8	1 28	2 49	19 43	0 42	22 32	0 7	17 39	16 57	18 8	18 23	25 29		n.a.
S 28	12 45	27 20	3 52	19 19	1 55	23 0	1 32	2 21	1 7	13 15	1 8	1 27	2 48	19 43	0 42	22 32	0 7	17 38	16 57	18 9	18 22	25 30		n.a.
S 29	13 5	26 26	4 38	19 55	2 0	23 14	1 34	2 3	1 6	13 11	1 9	1 25	2 48	19 43	0 42	22 32	0 7	17 38	16 58	18 9	18 21	25 32		n.a.
M30	13n24	23s54	5s 6	20n29	2n 5	23n28	1n36	1s45	1s 6	13s 8	1s 9	1s24	2n48	19n43	0n42	22s32	0n 7	17s38	16s58	18n 9	18n20	25n33		n.a.

Julian Day Number = 1671108.5, Delta T = 03h20m30s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'06, Lahiri = - 5°51'06 Julian Calendar 1 Apr. 138 BCE == Greg. Calendar 29 March 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

MAY 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 20 30	6♉ 8'52	19♒49	23♉48	9♊10	28♓55	28♒51	9°R52	5♌52	16°R41	24♓41	20°R46	21♉25	18♊40	n.a.	T 1
W 2	14 24 27	7° 6'15	3♓15	25°33	10°22	29°39	29° 0	9♎48	5°52	16♑41	24°42	20♉45	21°22	18°46	n.a.	W 2
T 3	14 28 23	8° 3'37	16°24	27°15	11°33	0♈24	29° 9	9°44	5°53	16°41	24°43	20°43	21°19	18°53	n.a.	T 3
F 4	14 32 20	9° 0'59	29°18	28°54	12°44	1° 8	29°19	9°40	5°54	16°40	24°44	20°42	21°16	19° 0	n.a.	F 4
S 5	14 36 16	9°58'19	11♈57	0♊30	13°55	1°52	29°28	9°37	5°55	16°40	24°46	20°40	21°12	19° 6	n.a.	S 5
S 6	14 40 13	10°55'39	24°24	2° 4	15° 6	2°36	29°36	9°33	5°56	16°40	24°47	20°39	21° 9	19°13	n.a.	S 6
M 7	14 44 9	11°52'59	6♉40	3°34	16°17	3°20	29°45	9°30	5°57	16°39	24°48	20°38	21° 6	19°20	n.a.	M 7
T 8	14 48 6	12°50'17	18°46	5° 2	17°28	4° 4	29°54	9°26	5°58	16°39	24°49	20°D38	21° 3	19°26	n.a.	T 8
W 9	14 52 2	13°47'35	0♊43	6°27	18°39	4°48	0♓ 2	9°23	5°59	16°38	24°50	20°38	21° 0	19°33	n.a.	W 9
T 10	14 55 59	14°44'51	12°35	7°48	19°49	5°32	0°10	9°20	6° 1	16°38	24°51	20°38	20°57	19°40	n.a.	T 10
F 11	14 59 56	15°42'07	24°24	9° 7	21° 0	6°16	0°19	9°17	6° 2	16°37	24°52	20°39	20°53	19°46	n.a.	F 11
S 12	15 3 52	16°39'23	6♋12	10°23	22°11	7° 0	0°27	9°14	6° 3	16°36	24°53	20°40	20°50	19°53	n.a.	S 12
S 13	15 7 49	17°36'37	18° 4	11°35	23°21	7°44	0°35	9°11	6° 4	16°36	24°53	20°40	20°47	20° 0	n.a.	S 13
M14	15 11 45	18°33'50	0♌ 4	12°45	24°32	8°27	0°42	9° 8	6° 6	16°35	24°54	20°40	20°44	20° 6	n.a.	M14
T 15	15 15 42	19°31'02	12°14	13°51	25°42	9°11	0°50	9° 5	6° 7	16°35	24°55	20°40	20°41	20°13	n.a.	T 15
W16	15 19 38	20°28'14	24°41	14°54	26°52	9°54	0°57	9° 2	6° 9	16°34	24°56	20°40	20°37	20°20	n.a.	W16
T 17	15 23 35	21°25'25	7♍28	15°53	28° 3	10°38	1° 5	8°59	6°10	16°33	24°57	20°40	20°34	20°26	n.a.	T 17
F 18	15 27 31	22°22'34	20°38	16°49	29°13	11°21	1°12	8°57	6°12	16°32	24°58	20°40	20°31	20°33	n.a.	F 18
S 19	15 31 28	23°19'43	4♎14	17°41	0♋23	12° 4	1°19	8°54	6°14	16°32	24°59	20°41	20°28	20°39	n.a.	S 19
S 20	15 35 25	24°16'52	18°17	18°30	1°33	12°48	1°26	8°51	6°15	16°31	25° 0	20°41	20°25	20°46	n.a.	S 20
M21	15 39 21	25°13'59	2♏44	19°15	2°43	13°31	1°33	8°49	6°17	16°30	25° 0	20°41	20°22	20°53	n.a.	M21
T 22	15 43 18	26°11'07	17°32	19°56	3°52	14°14	1°39	8°47	6°19	16°29	25° 1	20°R41	20°18	20°59	n.a.	T 22
W23	15 47 14	27° 8'14	2♐33	20°34	5° 2	14°57	1°46	8°44	6°21	16°28	25° 2	20°41	20°15	21° 6	n.a.	W23
T 24	15 51 11	28° 5'20	17°39	21° 7	6°12	15°40	1°52	8°42	6°22	16°27	25° 3	20°41	20°12	21°13	n.a.	T 24
F 25	15 55 7	29° 2'27	2♑42	21°36	7°21	16°23	1°58	8°40	6°24	16°26	25° 3	20°40	20° 9	21°19	n.a.	F 25
S 26	15 59 4	29°59'33	17°33	22° 0	8°31	17° 6	2° 4	8°38	6°26	16°25	25° 4	20°39	20° 6	21°26	n.a.	S 26
S 27	16 3 1	0♊56'40	2♒ 5	22°20	9°40	17°49	2°10	8°36	6°28	16°24	25° 5	20°38	20° 3	21°33	n.a.	S 27
M28	16 6 57	1°53'46	16°14	22°36	10°49	18°31	2°15	8°34	6°30	16°23	25° 5	20°37	19°59	21°40	n.a.	M28
T 29	16 10 54	2°50'53	29°59	22°47	11°59	19°14	2°21	8°33	6°32	16°22	25° 6	20°D37	19°56	21°46	n.a.	T 29
W30	16 14 50	3°48'00	13♓22	22°54	13° 8	19°57	2°26	8°31	6°35	16°21	25° 7	20°37	19°53	21°53	n.a.	W30
T 31	16 18 47	4♊45'06	26♓22	22°R56	14♋17	20♈39	2♓31	8♎30	6♌37	16♑20	25♓ 7	20♉38	19♉50	22♊ 0	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13n43	20s 2	5s16	21n 1	2n 9	23n42	1n38	1s26	1s 6	13s 5	1s 9	1s23	2n48	19n42	0n42	22s32	0n 7	17s37	16s58	18n 9	18n19	25n34		n.a.
W 2	14 2	15 13	5 9	21 30	2 12	23 54	1 40	1 8	1 6	13 2	1 9	1 21	2 48	19 42	0 42	22 32	0 7	17 37	16 58	18 9	18 19	25 36		n.a.
T 3	14 21	9 48	4 45	21 57	2 14	24 7	1 42	0 50	1 5	12 59	1 10	1 20	2 48	19 42	0 42	22 32	0 7	17 37	16 58	18 8	18 18	25 37		n.a.
F 4	14 40	4 4	4 8	22 21	2 16	24 18	1 44	0 32	1 5	12 56	1 10	1 19	2 48	19 42	0 42	22 32	0 7	17 37	16 59	18 8	18 17	25 39		n.a.
S 5	14 58	1n45	3 18	22 43	2 17	24 29	1 46	0 14	1 5	12 53	1 10	1 17	2 47	19 41	0 42	22 32	0 7	17 37	16 59	18 7	18 16	25 40		n.a.
S 6	15 17	7 24	2 20	23 3	2 17	24 39	1 47	0n 4	1 4	12 50	1 10	1 16	2 47	19 41	0 42	22 33	0 7	17 36	16 59	18 7	18 15	25 41		n.a.
M 7	15 34	12 41	1 17	23 20	2 16	24 48	1 49	0 22	1 4	12 47	1 11	1 15	2 47	19 41	0 42	22 33	0 7	17 36	16 59	18 7	18 14	25 43		n.a.
T 8	15 52	17 26	0 10	23 35	2 15	24 57	1 50	0 40	1 4	12 45	1 11	1 14	2 47	19 40	0 42	22 33	0 7	17 36	17 0	18 7	18 14	25 44		n.a.
W 9	16 10	21 27	0n56	23 49	2 13	25 5	1 52	0 58	1 3	12 42	1 11	1 13	2 47	19 40	0 42	22 33	0 7	17 36	17 0	18 7	18 13	25 45		n.a.
T 10	16 27	24 32	1 59	24 0	2 10	25 12	1 53	1 16	1 3	12 39	1 11	1 11	2 47	19 40	0 42	22 33	0 7	17 36	17 0	18 7	18 12	25 46		n.a.
F 11	16 44	26 32	2 57	24 9	2 6	25 19	1 55	1 34	1 3	12 36	1 12	1 10	2 46	19 39	0 42	22 33	0 7	17 36	17 0	18 7	18 11	25 48		n.a.
S 12	17 0	27 21	3 47	24 16	2 2	25 24	1 56	1 51	1 2	12 34	1 12	1 9	2 46	19 39	0 42	22 33	0 7	17 35	17 1	18 7	18 10	25 49		n.a.
S 13	17 17	26 54	4 28	24 21	1 56	25 30	1 57	2 9	1 2	12 31	1 12	1 8	2 46	19 39	0 42	22 33	0 7	17 35	17 1	18 7	18 9	25 50		n.a.
M14	17 33	25 12	4 57	24 25	1 50	25 34	1 58	2 27	1 2	12 29	1 13	1 7	2 46	19 38	0 42	22 33	0 7	17 35	17 1	18 7	18 8	25 52		n.a.
T 15	17 49	22 20	5 14	24 26	1 44	25 38	1 59	2 44	1 1	12 26	1 13	1 6	2 46	19 38	0 42	22 33	0 7	17 35	17 1	18 7	18 8	25 53		n.a.
W16	18 4	18 24	5 17	24 27	1 36	25 41	2 0	3 2	1 1	12 24	1 13	1 5	2 45	19 38	0 42	22 33	0 7	17 35	17 2	18 7	18 7	25 54		n.a.
T 17	18 19	13 33	5 4	24 25	1 28	25 43	2 1	3 20	1 0	12 21	1 13	1 5	2 45	19 37	0 42	22 33	0 7	17 35	17 2	18 7	18 6	25 55		n.a.
F 18	18 34	7 57	4 35	24 22	1 19	25 45	2 2	3 37	1 0	12 19	1 14	1 4	2 45	19 37	0 42	22 34	0 7	17 35	17 2	18 7	18 5	25 57		n.a.
S 19	18 49	1 49	3 50	24 18	1 10	25 45	2 3	3 55	1 0	12 17	1 14	1 3	2 45	19 36	0 42	22 34	0 7	17 35	17 3	18 8	18 4	25 58		n.a.
S 20	19 3	4s37	2 50	24 12	1 0	25 45	2 3	4 12	0 59	12 15	1 14	1 2	2 45	19 36	0 42	22 34	0 7	17 35	17 3	18 8	18 3	25 59		n.a.
M21	19 17	11 2	1 38	24 5	0 49	25 45	2 4	4 29	0 59	12 12	1 15	1 1	2 44	19 35	0 42	22 34	0 7	17 35	17 3	18 8	18 2	26 0		n.a.
T 22	19 31	16 58	0 18	23 57	0 37	25 43	2 4	4 47	0 58	12 10	1 15	1 1	2 44	19 35	0 42	22 34	0 7	17 35	17 4	18 8	18 2	26 2		n.a.
W23	19 45	21 59	1s 5	23 47	0 25	25 41	2 5	5 4	0 58	12 8	1 15	1 0	2 44	19 34	0 42	22 34	0 7	17 35	17 4	18 8	18 1	26 3		n.a.
T 24	19 58	25 31	2 24	23 37	0 12	25 39	2 5	5 21	0 58	12 6	1 15	0 59	2 44	19 34	0 42	22 34	0 7	17 35	17 4	18 8	18 0	26 4		n.a.
F 25	20 10	27 14	3 33	23 25	0s 1	25 35	2 5	5 38	0 57	12 4	1 16	0 59	2 43	19 33	0 42	22 34	0 7	17 34	17 4	18 7	17 59	26 5		n.a.
S 26	20 23	26 56	4 26	23 13	0 15	25 31	2 5	5 55	0 57	12 2	1 16	0 58	2 43	19 33	0 42	22 34	0 7	17 34	17 5	18 7	17 58	26 7		n.a.
S 27	20 35	24 48	5 0	23 0	0 30	25 26	2 5	6 12	0 56	12 1	1 16	0 58	2 43	19 32	0 41	22 35	0 7	17 34	17 5	18 7	17 57	26 8		n.a.
M28	20 47	21 10	5 16	22 46	0 44	25 20	2 5	6 29	0 56	11 59	1 17	0 57	2 43	19 32	0 41	22 35	0 7	17 35	17 5	18 7	17 56	26 9		n.a.
T 29	20 58	16 28	5 13	22 31	1 0	25 14	2 5	6 46	0 55	11 57	1 17	0 57	2 42	19 31	0 41	22 35	0 7	17 35	17 6	18 7	17 56	26 10		n.a.
W30	21 9	11 6	4 52	22 16	1 15	25 7	2 4	7 2	0 55	11 55	1 17	0 56	2 42	19 31	0 41	22 35	0 7	17 35	17 6	18 7	17 55	26 11		n.a.
T 31	21n20	5s23	4s17	22n 1	1s31	25n 0	2n 4	7n19	0s54	11s54	1s18	0s56	2n42	19n30	0n41	22s35	0n 7	17s35	17s 6	18n 7	17n54	26n12		n.a.

Julian Day Number = 1671138.5, Delta T = 03h20m30s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°58'02, Lahiri = - 5°51'02 Julian Calendar 1 May 138 BCE == Greg. Calendar 28 Apr. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

JUNE 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 22 43	5♊42'13	9♈ 2	22°R53	15♋26	21♈22	2♓36	8°R28	6♌39	16°R19	25♓ 8	20♉39	19♉47	22♊ 6	n.a.	F 1
S 2	16 26 40	6°39'21	21°27	22♊46	16°34	22° 4	2°41	8♎27	6°41	16♑18	25° 9	20°40	19°43	22°13	n.a.	S 2
S 3	16 30 36	7°36'28	3♉40	22°35	17°43	22°46	2°46	8°25	6°44	16°17	25° 9	20°41	19°40	22°20	n.a.	S 3
M 4	16 34 33	8°33'36	15°43	22°19	18°52	23°29	2°50	8°24	6°46	16°15	25°10	20°R42	19°37	22°26	n.a.	M 4
T 5	16 38 30	9°30'44	27°38	21°59	20° 0	24°11	2°54	8°23	6°48	16°14	25°10	20°42	19°34	22°33	n.a.	T 5
W 6	16 42 26	10°27'52	9♊29	21°35	21° 8	24°53	2°58	8°22	6°51	16°13	25°11	20°41	19°31	22°40	n.a.	W 6
T 7	16 46 23	11°25'00	21°18	21° 7	22°17	25°35	3° 2	8°21	6°53	16°12	25°11	20°39	19°28	22°46	n.a.	T 7
F 8	16 50 19	12°22'09	3♋ 7	20°37	23°25	26°17	3° 6	8°21	6°56	16°10	25°12	20°36	19°24	22°53	n.a.	F 8
S 9	16 54 16	13°19'17	14°57	20° 3	24°33	26°59	3°10	8°20	6°58	16° 9	25°12	20°32	19°21	23° 0	n.a.	S 9
S 10	16 58 12	14°16'26	26°52	19°28	25°41	27°41	3°13	8°19	7° 1	16° 8	25°12	20°28	19°18	23° 6	n.a.	S 10
M11	17 2 9	15°13'35	8♌54	18°50	26°49	28°22	3°16	8°19	7° 3	16° 7	25°13	20°25	19°15	23°13	n.a.	M11
T 12	17 6 5	16°10'43	21° 7	18°12	27°56	29° 4	3°19	8°18	7° 6	16° 5	25°13	20°22	19°12	23°20	n.a.	T 12
W13	17 10 2	17° 7'52	3♍33	17°33	29° 4	29°46	3°22	8°18	7° 9	16° 4	25°14	20°20	19° 8	23°26	n.a.	W13
T 14	17 13 59	18° 5'01	16°17	16°55	0♌11	0♉27	3°25	8°18	7°12	16° 2	25°14	20°D19	19° 5	23°33	n.a.	T 14
F 15	17 17 55	19° 2'10	29°21	16°17	1°18	1° 9	3°27	8°18	7°14	16° 1	25°14	20°20	19° 2	23°40	n.a.	F 15
S 16	17 21 52	19°59'19	12♎50	15°41	2°26	1°50	3°29	8°D18	7°17	16° 0	25°15	20°21	18°59	23°46	n.a.	S 16
S 17	17 25 48	20°56'29	26°44	15° 7	3°33	2°31	3°31	8°18	7°20	15°58	25°15	20°22	18°56	23°53	n.a.	S 17
M18	17 29 45	21°53'39	11♏ 5	14°36	4°39	3°12	3°33	8°18	7°23	15°57	25°15	20°23	18°53	24° 0	n.a.	M18
T 19	17 33 41	22°50'49	25°49	14° 9	5°46	3°54	3°35	8°18	7°26	15°55	25°15	20°R24	18°49	24° 6	n.a.	T 19
W20	17 37 38	23°47'59	10♐52	13°45	6°52	4°35	3°36	8°18	7°29	15°54	25°15	20°22	18°46	24°13	n.a.	W20
T 21	17 41 35	24°45'10	26° 6	13°26	7°59	5°16	3°38	8°19	7°32	15°52	25°16	20°19	18°43	24°20	n.a.	T 21
F 22	17 45 31	25°42'22	11♑21	13°12	9° 5	5°57	3°39	8°20	7°35	15°51	25°16	20°15	18°40	24°26	n.a.	F 22
S 23	17 49 28	26°39'35	26°25	13° 3	10°11	6°37	3°40	8°20	7°38	15°49	25°16	20°10	18°37	24°33	n.a.	S 23
S 24	17 53 24	27°36'48	11♒12	12°D59	11°17	7°18	3°41	8°21	7°41	15°48	25°16	20° 5	18°34	24°40	n.a.	S 24
M25	17 57 21	28°34'03	25°33	13° 1	12°22	7°59	3°41	8°22	7°44	15°46	25°16	20° 0	18°30	24°46	n.a.	M25
T 26	18 1 17	29°31'18	9♓26	13° 9	13°28	8°39	3°41	8°23	7°47	15°45	25°16	19°57	18°27	24°53	n.a.	T 26
W27	18 5 14	0♋28'34	22°51	13°23	14°33	9°20	3°R42	8°24	7°50	15°43	25°16	19°55	18°24	25° 0	n.a.	W27
T 28	18 9 10	1°25'52	5♈50	13°43	15°38	10° 0	3°41	8°25	7°53	15°42	25°16	19°D55	18°21	25° 6	n.a.	T 28
F 29	18 13 7	2°23'10	18°26	14° 9	16°43	10°41	3°41	8°26	7°57	15°40	25°R16	19°56	18°18	25°13	n.a.	F 29
S 30	18 17 4	3♋20'30	0♉44	14♊41	17♌48	11♉21	3♓41	8♎27	8♌ 0	15♑39	25♓16	19♉58	18♉14	25♊20	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n30	0n24	3s31	21n45	1s47	24n51	2n 3	7n35	0s54	11s52	1s18	0s55	2n42	19n29	0n41	22s35	0n 7	17s35	17s 7	18n 7	17n53	26n14		n.a.
S 2	21 40	6 4	2 35	21 28	2 3	24 42	2 3	7 52	0 53	11 51	1 18	0 55	2 41	19 29	0 41	22 35	0 7	17 35	17 7	18 7	17 52	26 15		n.a.
S 3	21 50	11 26	1 33	21 12	2 19	24 33	2 2	8 8	0 53	11 49	1 18	0 55	2 41	19 28	0 41	22 36	0 7	17 35	17 7	18 8	17 51	26 16		n.a.
M 4	21 59	16 17	0 28	20 55	2 34	24 22	2 1	8 25	0 52	11 48	1 19	0 55	2 41	19 28	0 41	22 36	0 7	17 35	17 8	18 8	17 50	26 17		n.a.
T 5	22 8	20 29	0n38	20 39	2 50	24 11	2 0	8 41	0 52	11 47	1 19	0 54	2 41	19 27	0 41	22 36	0 7	17 35	17 8	18 8	17 49	26 18		n.a.
W 6	22 16	23 48	1 42	20 22	3 4	24 0	1 59	8 57	0 51	11 46	1 19	0 54	2 40	19 26	0 41	22 36	0 7	17 35	17 8	18 8	17 49	26 19		n.a.
T 7	22 24	26 6	2 41	20 6	3 19	23 47	1 58	9 13	0 51	11 45	1 20	0 54	2 40	19 26	0 41	22 36	0 7	17 35	17 9	18 7	17 48	26 20		n.a.
F 8	22 32	27 13	3 33	19 51	3 32	23 35	1 57	9 29	0 50	11 43	1 20	0 54	2 40	19 25	0 41	22 36	0 7	17 35	17 9	18 6	17 47	26 22		n.a.
S 9	22 40	27 6	4 16	19 36	3 45	23 21	1 56	9 44	0 50	11 42	1 20	0 54	2 40	19 24	0 41	22 37	0 7	17 36	17 9	18 5	17 46	26 23		n.a.
S 10	22 46	25 43	4 48	19 22	3 56	23 7	1 54	10 0	0 49	11 42	1 21	0 54	2 39	19 24	0 41	22 37	0 7	17 36	17 10	18 4	17 45	26 24		n.a.
M11	22 53	23 10	5 8	19 9	4 7	22 53	1 53	10 16	0 49	11 41	1 21	0 54	2 39	19 23	0 41	22 37	0 7	17 36	17 10	18 3	17 44	26 25		n.a.
T 12	22 59	19 34	5 14	18 56	4 16	22 37	1 51	10 31	0 48	11 40	1 21	0 54	2 39	19 22	0 41	22 37	0 7	17 36	17 10	18 3	17 43	26 26		n.a.
W13	23 5	15 3	5 6	18 45	4 23	22 22	1 49	10 46	0 48	11 39	1 22	0 54	2 39	19 21	0 41	22 37	0 7	17 36	17 11	18 2	17 42	26 27		n.a.
T 14	23 10	9 48	4 42	18 36	4 29	22 5	1 47	11 2	0 47	11 38	1 22	0 54	2 38	19 21	0 41	22 37	0 7	17 36	17 11	18 2	17 42	26 28		n.a.
F 15	23 15	3 59	4 4	18 28	4 34	21 48	1 45	11 17	0 46	11 38	1 22	0 55	2 38	19 20	0 41	22 38	0 7	17 37	17 11	18 2	17 41	26 29		n.a.
S 16	23 20	2s11	3 11	18 21	4 37	21 31	1 43	11 32	0 46	11 37	1 23	0 55	2 38	19 19	0 41	22 38	0 7	17 37	17 12	18 2	17 40	26 30		n.a.
S 17	23 24	8 28	2 6	18 16	4 38	21 13	1 41	11 47	0 45	11 37	1 23	0 55	2 38	19 18	0 41	22 38	0 7	17 37	17 12	18 3	17 39	26 31		n.a.
M18	23 28	14 31	0 51	18 13	4 38	20 55	1 39	12 2	0 45	11 37	1 23	0 55	2 37	19 18	0 41	22 38	0 7	17 37	17 13	18 3	17 38	26 32		n.a.
T 19	23 31	19 55	0s30	18 12	4 36	20 36	1 36	12 16	0 44	11 36	1 24	0 56	2 37	19 17	0 41	22 38	0 7	17 37	17 13	18 3	17 37	26 33		n.a.
W20	23 34	24 8	1 50	18 12	4 32	20 16	1 33	12 31	0 43	11 36	1 24	0 56	2 37	19 16	0 41	22 39	0 7	17 38	17 13	18 3	17 36	26 34		n.a.
T 21	23 36	26 42	3 3	18 15	4 27	19 56	1 31	12 45	0 43	11 36	1 24	0 57	2 36	19 15	0 41	22 39	0 7	17 38	17 14	18 2	17 35	26 35		n.a.
F 22	23 39	27 15	4 2	18 19	4 21	19 36	1 28	12 59	0 42	11 36	1 25	0 57	2 36	19 15	0 41	22 39	0 7	17 38	17 14	18 1	17 35	26 36		n.a.
S 23	23 40	25 46	4 45	18 26	4 14	19 15	1 25	13 14	0 42	11 36	1 25	0 58	2 36	19 14	0 41	22 39	0 7	17 38	17 14	17 59	17 34	26 37		n.a.
S 24	23 41	22 32	5 7	18 34	4 5	18 54	1 22	13 28	0 41	11 36	1 25	0 58	2 36	19 13	0 41	22 39	0 7	17 39	17 15	17 58	17 33	26 38		n.a.
M25	23 42	17 59	5 9	18 44	3 55	18 33	1 19	13 42	0 40	11 36	1 26	0 59	2 35	19 12	0 41	22 40	0 7	17 39	17 15	17 57	17 32	26 39		n.a.
T 26	23 43	12 38	4 53	18 56	3 44	18 10	1 15	13 55	0 40	11 36	1 26	0 59	2 35	19 11	0 41	22 40	0 7	17 39	17 15	17 56	17 31	26 40		n.a.
W27	23 43	6 51	4 21	19 9	3 33	17 48	1 12	14 9	0 39	11 36	1 26	1 0	2 35	19 10	0 41	22 40	0 7	17 40	17 16	17 55	17 30	26 41		n.a.
T 28	23 42	0 58	3 37	19 24	3 20	17 25	1 9	14 23	0 38	11 37	1 27	1 1	2 35	19 10	0 41	22 40	0 7	17 40	17 16	17 55	17 29	26 42		n.a.
F 29	23 41	4n48	2 43	19 40	3 7	17 2	1 5	14 36	0 38	11 37	1 27	1 1	2 34	19 9	0 41	22 40	0 7	17 40	17 16	17 56	17 28	26 43		n.a.
S 30	23n40	10n16	1s43	19n57	2s54	16n39	1n 1	14n49	0s37	11s38	1s27	1s 2	2n34	19n 8	0n41	22s40	0n 7	17s40	17s17	17n56	17n27	26n44		n.a.

Julian Day Number = 1671169.5, Delta T = 03h20m29s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'58, Lahiri = - 5°50'58 Julian Calendar 1 June 138 BCE == Greg. Calendar 29 May 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

JULY 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 0	4♋17'51	12♉49	15♊19	18♌53	12♉ 1	3°R40	8♎29	8♌ 3	15°R37	25°R16	19♉59	18♉11	25♊26	n.a.	S 1
M 2	18 24 57	5°15'13	24°44	16° 3	19°57	12°41	3♓39	8°30	8° 6	15♑35	25♓16	19°R59	18° 8	25°33	n.a.	M 2
T 3	18 28 53	6°12'36	6♊34	16°53	21° 1	13°21	3°38	8°32	8°10	15°34	25°16	19°57	18° 5	25°40	n.a.	T 3
W 4	18 32 50	7°10'01	18°22	17°49	22° 5	14° 1	3°37	8°34	8°13	15°32	25°16	19°54	18° 2	25°46	n.a.	W 4
T 5	18 36 46	8° 7'27	0♋10	18°50	23° 9	14°41	3°35	8°35	8°16	15°31	25°16	19°48	17°59	25°53	n.a.	T 5
F 6	18 40 43	9° 4'53	12° 2	19°57	24°12	15°21	3°34	8°37	8°20	15°29	25°16	19°40	17°55	26° 0	n.a.	F 6
S 7	18 44 39	10° 2'21	23°58	21°10	25°15	16° 1	3°32	8°39	8°23	15°27	25°16	19°31	17°52	26° 6	n.a.	S 7
S 8	18 48 36	10°59'50	6♌ 0	22°28	26°18	16°40	3°30	8°41	8°27	15°26	25°16	19°22	17°49	26°13	n.a.	S 8
M 9	18 52 33	11°57'20	18°10	23°51	27°21	17°20	3°28	8°44	8°30	15°24	25°15	19°12	17°46	26°20	n.a.	M 9
T 10	18 56 29	12°54'51	0♍30	25°19	28°23	17°59	3°25	8°46	8°33	15°22	25°15	19° 4	17°43	26°26	n.a.	T 10
W11	19 0 26	13°52'23	13° 1	26°52	29°26	18°39	3°23	8°48	8°37	15°21	25°15	18°58	17°40	26°33	n.a.	W11
T 12	19 4 22	14°49'56	25°46	28°29	0♍27	19°18	3°20	8°51	8°40	15°19	25°15	18°54	17°36	26°40	n.a.	T 12
F 13	19 8 19	15°47'30	8♎49	0♋10	1°29	19°57	3°17	8°53	8°44	15°18	25°14	18°52	17°33	26°46	n.a.	F 13
S 14	19 12 15	16°45'05	22°11	1°55	2°30	20°36	3°14	8°56	8°48	15°16	25°14	18°D52	17°30	26°53	n.a.	S 14
S 15	19 16 12	17°42'41	5♏55	3°43	3°31	21°15	3°10	8°58	8°51	15°14	25°14	18°53	17°27	27° 0	n.a.	S 15
M16	19 20 8	18°40'18	20° 3	5°34	4°32	21°54	3° 7	9° 1	8°55	15°13	25°13	18°R53	17°24	27° 6	n.a.	M16
T 17	19 24 5	19°37'56	4♐35	7°27	5°32	22°33	3° 3	9° 4	8°58	15°11	25°13	18°52	17°20	27°13	n.a.	T 17
W18	19 28 2	20°35'36	19°26	9°23	6°32	23°11	2°59	9° 7	9° 2	15° 9	25°13	18°49	17°17	27°20	n.a.	W18
T 19	19 31 58	21°33'17	4♑31	11°20	7°32	23°50	2°55	9°10	9° 6	15° 8	25°12	18°44	17°14	27°27	n.a.	T 19
F 20	19 35 55	22°30'59	19°42	13°19	8°31	24°28	2°51	9°13	9° 9	15° 6	25°12	18°36	17°11	27°33	n.a.	F 20
S 21	19 39 51	23°28'43	4♒47	15°18	9°30	25° 7	2°46	9°17	9°13	15° 5	25°11	18°27	17° 8	27°40	n.a.	S 21
S 22	19 43 48	24°26'28	19°38	17°19	10°29	25°45	2°42	9°20	9°16	15° 3	25°11	18°17	17° 5	27°47	n.a.	S 22
M23	19 47 44	25°24'14	4♓ 6	19°19	11°27	26°23	2°37	9°23	9°20	15° 1	25°10	18° 8	17° 1	27°53	n.a.	M23
T 24	19 51 41	26°22'03	18° 5	21°20	12°25	27° 1	2°32	9°27	9°24	15° 0	25°10	18° 1	16°58	28° 0	n.a.	T 24
W25	19 55 38	27°19'53	1♈36	23°21	13°22	27°39	2°27	9°30	9°27	14°58	25° 9	17°56	16°55	28° 7	n.a.	W25
T 26	19 59 34	28°17'45	14°38	25°21	14°19	28°17	2°22	9°34	9°31	14°57	25° 9	17°53	16°52	28°13	n.a.	T 26
F 27	20 3 31	29°15'39	27°15	27°20	15°16	28°55	2°16	9°38	9°35	14°55	25° 8	17°D52	16°49	28°20	n.a.	F 27
S 28	20 7 27	0♌13'35	9♉32	29°19	16°12	29°33	2°11	9°41	9°39	14°53	25° 8	17°53	16°46	28°27	n.a.	S 28
S 29	20 11 24	1°11'33	21°35	1♌17	17° 7	0♊11	2° 5	9°45	9°42	14°52	25° 7	17°R53	16°42	28°33	n.a.	S 29
M30	20 15 20	2° 9'33	3♊28	3°14	18° 2	0°48	1°59	9°49	9°46	14°50	25° 7	17°52	16°39	28°40	n.a.	M30
T 31	20 19 17	3♌ 7'35	15♊16	5♌10	18♍57	1♊25	1♓53	9♎53	9♌50	14♑49	25♓ 6	17♉49	16♉36	28♊47	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	23n39	15n15	0s39	20n15	2s40	16n15	0n57	15n 2	0s36	11s38	1s28	1s 3	2n34	19n 7	0n41	22s41	0n 7	17s41	17s17	17n56	17n27	26n45			n.a.
M 2	23 36	19 35	0n26	20 34	2 25	15 50	0 53	15 15	0 36	11 39	1 28	1 4	2 33	19 6	0 41	22 41	0 7	17 41	17 18	17 56	17 26	26 46			n.a.
T 3	23 34	23 6	1 29	20 54	2 11	15 26	0 49	15 28	0 35	11 39	1 28	1 5	2 33	19 5	0 41	22 41	0 7	17 41	17 18	17 56	17 25	26 47			n.a.
W 4	23 31	25 38	2 27	21 14	1 56	15 1	0 45	15 41	0 34	11 40	1 29	1 6	2 33	19 4	0 41	22 41	0 7	17 42	17 18	17 55	17 24	26 48			n.a.
T 5	23 28	27 2	3 19	21 34	1 41	14 36	0 41	15 54	0 34	11 41	1 29	1 7	2 33	19 3	0 41	22 41	0 7	17 42	17 19	17 53	17 23	26 49			n.a.
F 6	23 24	27 12	4 3	21 54	1 26	14 11	0 36	16 6	0 33	11 42	1 29	1 8	2 32	19 3	0 41	22 42	0 7	17 43	17 19	17 51	17 22	26 50			n.a.
S 7	23 20	26 6	4 36	22 14	1 11	13 45	0 32	16 18	0 32	11 43	1 30	1 9	2 32	19 2	0 41	22 42	0 7	17 43	17 19	17 49	17 21	26 51			n.a.
S 8	23 15	23 47	4 58	22 33	0 57	13 19	0 27	16 30	0 32	11 44	1 30	1 10	2 32	19 1	0 41	22 42	0 7	17 43	17 20	17 46	17 20	26 52			n.a.
M 9	23 10	20 24	5 6	22 52	0 42	12 53	0 22	16 42	0 31	11 45	1 30	1 11	2 32	19 0	0 41	22 42	0 7	17 44	17 20	17 44	17 19	26 52			n.a.
T 10	23 5	16 5	5 0	23 9	0 28	12 26	0 17	16 54	0 30	11 46	1 31	1 12	2 31	18 59	0 41	22 42	0 7	17 44	17 20	17 41	17 18	26 53			n.a.
W11	22 59	11 2	4 40	23 26	0 15	12 0	0 12	17 6	0 29	11 47	1 31	1 13	2 31	18 58	0 41	22 43	0 6	17 45	17 21	17 40	17 18	26 54			n.a.
T 12	22 53	5 27	4 5	23 40	0 2	11 33	0 7	17 18	0 29	11 49	1 31	1 14	2 31	18 57	0 41	22 43	0 6	17 45	17 21	17 38	17 17	26 55			n.a.
F 13	22 46	0s31	3 17	23 54	0n11	11 6	0 2	17 29	0 28	11 50	1 31	1 16	2 31	18 56	0 41	22 43	0 6	17 45	17 21	17 38	17 16	26 56			n.a.
S 14	22 39	6 36	2 18	24 5	0 23	10 39	0s 3	17 40	0 27	11 52	1 32	1 17	2 30	18 55	0 41	22 43	0 6	17 46	17 22	17 38	17 15	26 57			n.a.
S 15	22 32	12 34	1 9	24 13	0 34	10 11	0 9	17 51	0 26	11 53	1 32	1 18	2 30	18 54	0 41	22 44	0 6	17 46	17 22	17 38	17 14	26 58			n.a.
M16	22 24	18 3	0s 6	24 20	0 44	9 44	0 14	18 2	0 26	11 55	1 32	1 19	2 30	18 53	0 41	22 44	0 6	17 47	17 22	17 38	17 13	26 58			n.a.
T 17	22 16	22 39	1 23	24 24	0 54	9 16	0 20	18 13	0 25	11 56	1 33	1 21	2 30	18 52	0 41	22 44	0 6	17 47	17 23	17 38	17 12	26 59			n.a.
W18	22 7	25 52	2 35	24 25	1 3	8 49	0 26	18 24	0 24	11 58	1 33	1 22	2 29	18 51	0 40	22 44	0 6	17 48	17 23	17 37	17 11	27 0			n.a.
T 19	21 58	27 16	3 38	24 24	1 11	8 21	0 32	18 34	0 23	12 0	1 33	1 24	2 29	18 50	0 40	22 44	0 6	17 48	17 23	17 36	17 10	27 1			n.a.
F 20	21 49	26 38	4 26	24 20	1 18	7 53	0 38	18 44	0 23	12 2	1 34	1 25	2 29	18 49	0 40	22 44	0 6	17 48	17 24	17 33	17 9	27 2			n.a.
S 21	21 39	24 3	4 55	24 13	1 25	7 25	0 44	18 55	0 22	12 4	1 34	1 27	2 29	18 48	0 40	22 45	0 6	17 49	17 24	17 31	17 9	27 2			n.a.
S 22	21 29	19 53	5 3	24 4	1 30	6 57	0 50	19 5	0 21	12 5	1 34	1 28	2 28	18 47	0 40	22 45	0 6	17 49	17 24	17 28	17 8	27 3			n.a.
M23	21 18	14 38	4 52	23 52	1 35	6 29	0 57	19 15	0 20	12 7	1 34	1 30	2 28	18 46	0 40	22 45	0 6	17 50	17 25	17 26	17 7	27 4			n.a.
T 24	21 7	8 47	4 23	23 38	1 39	6 1	1 3	19 24	0 19	12 10	1 35	1 31	2 28	18 45	0 40	22 45	0 6	17 50	17 25	17 24	17 6	27 5			n.a.
W25	20 56	2 43	3 40	23 21	1 42	5 32	1 10	19 34	0 18	12 12	1 35	1 33	2 28	18 44	0 40	22 45	0 6	17 51	17 25	17 22	17 5	27 6			n.a.
T 26	20 44	3n16	2 47	23 1	1 44	5 4	1 16	19 43	0 18	12 14	1 35	1 35	2 27	18 43	0 40	22 46	0 6	17 51	17 25	17 21	17 4	27 6			n.a.
F 27	20 32	8 57	1 47	22 40	1 46	4 36	1 23	19 52	0 17	12 16	1 35	1 36	2 27	18 42	0 40	22 46	0 6	17 52	17 26	17 21	17 3	27 7			n.a.
S 28	20 20	14 8	0 44	22 16	1 47	4 8	1 30	20 1	0 16	12 18	1 36	1 38	2 27	18 41	0 40	22 46	0 6	17 52	17 26	17 21	17 2	27 8			n.a.
S 29	20 7	18 41	0n20	21 51	1 47	3 40	1 37	20 10	0 15	12 21	1 36	1 40	2 27	18 40	0 40	22 46	0 6	17 53	17 26	17 21	17 1	27 9			n.a.
M30	19 54	22 25	1 22	21 23	1 47	3 12	1 44	20 19	0 14	12 23	1 36	1 42	2 26	18 39	0 40	22 46	0 6	17 53	17 27	17 21	17 0	27 9			n.a.
T 31	19n41	25n12	2n20	20n54	1n46	2n44	1s51	20n28	0s13	12s25	1s36	1s43	2n26	18n38	0n40	22s47	0n 6	17s54	17s27	17n20	16n59	27n10			n.a.

Julian Day Number = 1671199.5, Delta T = 03h20m28s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'54, Lahiri = - 5°50'54 Julian Calendar 1 July 138 BCE == Greg. Calendar 28 June 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

AUGUST 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 23 13	4♌ 5'39	27♊ 4	7♌ 5	19♍51	2♊ 3	1°R47	9♎57	9♌54	14°R47	25°R 5	17°R43	16♉33	28♊53	n.a.	W 1
T 2	20 27 10	5° 3'45	8♋55	8°59	20°44	2°40	1♓41	10° 2	9°57	14♑46	25♓ 5	17♉34	16°30	29° 0	n.a.	T 2
F 3	20 31 7	6° 1'53	20°52	10°52	21°37	3°17	1°34	10° 6	10° 1	14°44	25° 4	17°23	16°26	29° 7	n.a.	F 3
S 4	20 35 3	7° 0'02	2♌57	12°44	22°29	3°54	1°28	10°10	10° 5	14°43	25° 3	17°10	16°23	29°13	n.a.	S 4
S 5	20 39 0	7°58'14	15°10	14°34	23°21	4°31	1°21	10°15	10° 9	14°41	25° 3	16°57	16°20	29°20	n.a.	S 5
M 6	20 42 56	8°56'27	27°34	16°23	24°12	5° 8	1°14	10°19	10°12	14°40	25° 2	16°44	16°17	29°27	n.a.	M 6
T 7	20 46 53	9°54'42	10♍ 7	18°11	25° 2	5°44	1° 7	10°24	10°16	14°38	25° 1	16°32	16°14	29°33	n.a.	T 7
W 8	20 50 49	10°52'58	22°51	19°58	25°52	6°21	1° 0	10°28	10°20	14°37	25° 0	16°22	16°11	29°40	n.a.	W 8
T 9	20 54 46	11°51'16	5♎47	21°43	26°41	6°57	0°53	10°33	10°24	14°36	24°59	16°16	16° 7	29°47	n.a.	T 9
F 10	20 58 42	12°49'36	18°55	23°28	27°29	7°33	0°46	10°38	10°27	14°34	24°59	16°12	16° 4	29°53	n.a.	F 10
S 11	21 2 39	13°47'58	2♏18	25°11	28°17	8°10	0°39	10°43	10°31	14°33	24°58	16°11	16° 1	0♋ 0	n.a.	S 11
S 12	21 6 35	14°46'21	15°58	26°53	29° 3	8°46	0°31	10°47	10°35	14°31	24°57	16°11	15°58	0° 7	n.a.	S 12
M13	21 10 32	15°44'46	29°56	28°34	29°49	9°22	0°24	10°52	10°39	14°30	24°56	16°10	15°55	0°14	n.a.	M13
T 14	21 14 29	16°43'13	14♐11	0♍14	0♎34	9°57	0°16	10°57	10°42	14°29	24°55	16° 9	15°52	0°20	n.a.	T 14
W15	21 18 25	17°41'41	28°44	1°52	1°18	10°33	0° 9	11° 3	10°46	14°27	24°54	16° 5	15°48	0°27	n.a.	W15
T 16	21 22 22	18°40'12	13♑30	3°30	2° 1	11° 9	0° 1	11° 8	10°50	14°26	24°54	15°58	15°45	0°34	n.a.	T 16
F 17	21 26 18	19°38'44	28°22	5° 7	2°43	11°44	29♒53	11°13	10°54	14°25	24°53	15°49	15°42	0°40	n.a.	F 17
S 18	21 30 15	20°37'17	13♒12	6°42	3°24	12°19	29°45	11°18	10°57	14°24	24°52	15°38	15°39	0°47	n.a.	S 18
S 19	21 34 11	21°35'53	27°52	8°16	4° 4	12°54	29°37	11°24	11° 1	14°22	24°51	15°27	15°36	0°54	n.a.	S 19
M20	21 38 8	22°34'31	12♓14	9°50	4°43	13°29	29°30	11°29	11° 5	14°21	24°50	15°16	15°32	1° 0	n.a.	M20
T 21	21 42 4	23°33'11	26°12	11°22	5°21	14° 4	29°22	11°34	11° 9	14°20	24°49	15° 7	15°29	1° 7	n.a.	T 21
W22	21 46 1	24°31'53	9♈43	12°53	5°57	14°39	29°14	11°40	11°12	14°19	24°48	15° 0	15°26	1°14	n.a.	W22
T 23	21 49 58	25°30'37	22°48	14°24	6°33	15°14	29° 6	11°46	11°16	14°18	24°47	14°56	15°23	1°20	n.a.	T 23
F 24	21 53 54	26°29'24	5♉27	15°53	7° 7	15°48	28°58	11°51	11°20	14°17	24°46	14°55	15°20	1°27	n.a.	F 24
S 25	21 57 51	27°28'13	17°47	17°21	7°39	16°23	28°50	11°57	11°23	14°16	24°45	14°D54	15°17	1°34	n.a.	S 25
S 26	22 1 47	28°27'05	29°51	18°48	8°11	16°57	28°42	12° 3	11°27	14°14	24°44	14°R55	15°13	1°40	n.a.	S 26
M27	22 5 44	29°25'59	11♊45	20°15	8°40	17°31	28°34	12° 8	11°31	14°13	24°43	14°54	15°10	1°47	n.a.	M27
T 28	22 9 40	0♍24'55	23°34	21°40	9° 9	18° 5	28°25	12°14	11°34	14°12	24°42	14°52	15° 7	1°54	n.a.	T 28
W29	22 13 37	1°23'54	5♋24	23° 4	9°36	18°39	28°17	12°20	11°38	14°11	24°41	14°47	15° 4	2° 1	n.a.	W29
T 30	22 17 33	2°22'55	17°19	24°26	10° 1	19°12	28° 9	12°26	11°41	14°11	24°40	14°39	15° 1	2° 7	n.a.	T 30
F 31	22 21 30	3♍21'58	29♋21	25♍48	10♎24	19♊46	28♒ 1	12♎32	11♌45	14♑10	24♓39	14♉29	14♉58	2♋14	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	19n27	26n53	3n12	20n24	1n44	2n16	1s58	20n36	0s13	12s28	1s37	1s45	2n26	18n37	0n40	22s47	0n 6	17s54	17s27	17n19	16n58	27n11			n.a.
T 2	19 13	27 19	3 55	19 52	1 42	1 48	2 5	20 44	0 12	12 30	1 37	1 47	2 26	18 36	0 40	22 47	0 6	17 55	17 28	17 16	16 58	27 11			n.a.
F 3	18 59	26 30	4 29	19 18	1 40	1 20	2 13	20 53	0 11	12 33	1 37	1 49	2 26	18 35	0 40	22 47	0 6	17 55	17 28	17 13	16 57	27 12			n.a.
S 4	18 44	24 26	4 51	18 44	1 37	0 52	2 20	21 1	0 10	12 35	1 37	1 51	2 25	18 34	0 40	22 47	0 6	17 56	17 28	17 9	16 56	27 13			n.a.
S 5	18 29	21 14	5 0	18 8	1 33	0 25	2 28	21 8	0 9	12 38	1 38	1 53	2 25	18 33	0 40	22 48	0 6	17 57	17 28	17 5	16 55	27 14			n.a.
M 6	18 14	17 3	4 55	17 32	1 30	0s 3	2 36	21 16	0 8	12 41	1 38	1 55	2 25	18 32	0 40	22 48	0 6	17 57	17 29	17 2	16 54	27 14			n.a.
T 7	17 58	12 6	4 35	16 54	1 25	0 30	2 43	21 23	0 7	12 43	1 38	1 57	2 25	18 31	0 40	22 48	0 6	17 58	17 29	16 58	16 53	27 15			n.a.
W 8	17 42	6 34	4 2	16 16	1 21	0 57	2 51	21 31	0 6	12 46	1 38	1 59	2 24	18 30	0 40	22 48	0 6	17 58	17 29	16 55	16 52	27 16			n.a.
T 9	17 26	0 40	3 16	15 37	1 16	1 24	2 59	21 38	0 5	12 49	1 38	2 1	2 24	18 29	0 40	22 48	0 6	17 59	17 29	16 54	16 51	27 16			n.a.
F 10	17 9	5s21	2 19	14 58	1 11	1 51	3 7	21 45	0 4	12 52	1 38	2 3	2 24	18 28	0 40	22 48	0 6	17 59	17 30	16 53	16 50	27 17			n.a.
S 11	16 52	11 17	1 13	14 18	1 5	2 17	3 15	21 52	0 4	12 54	1 39	2 5	2 24	18 27	0 40	22 49	0 6	18 0	17 30	16 52	16 49	27 18			n.a.
S 12	16 35	16 47	0 1	13 37	1 0	2 43	3 23	21 58	0 3	12 57	1 39	2 7	2 24	18 26	0 40	22 49	0 6	18 0	17 30	16 52	16 48	27 18			n.a.
M13	16 18	21 32	1s12	12 57	0 54	3 9	3 31	22 5	0 2	13 0	1 39	2 9	2 23	18 25	0 41	22 49	0 6	18 1	17 30	16 52	16 47	27 19			n.a.
T 14	16 0	25 7	2 22	12 15	0 47	3 35	3 40	22 11	0 1	13 3	1 39	2 11	2 23	18 24	0 41	22 49	0 6	18 1	17 31	16 52	16 46	27 19			n.a.
W15	15 42	27 7	3 24	11 34	0 41	4 0	3 48	22 17	0n 0	13 6	1 39	2 14	2 23	18 23	0 41	22 49	0 6	18 2	17 31	16 50	16 46	27 20			n.a.
T 16	15 24	27 14	4 14	10 52	0 34	4 25	3 56	22 23	0 1	13 9	1 39	2 16	2 23	18 22	0 41	22 49	0 6	18 2	17 31	16 48	16 45	27 21			n.a.
F 17	15 6	25 24	4 47	10 10	0 28	4 50	4 5	22 29	0 2	13 11	1 40	2 18	2 23	18 21	0 41	22 49	0 6	18 3	17 31	16 46	16 44	27 21			n.a.
S 18	14 47	21 50	5 0	9 28	0 21	5 14	4 13	22 35	0 3	13 14	1 40	2 20	2 22	18 20	0 41	22 50	0 6	18 4	17 31	16 43	16 43	27 22			n.a.
S 19	14 28	16 56	4 53	8 46	0 14	5 38	4 22	22 41	0 4	13 17	1 40	2 23	2 22	18 19	0 41	22 50	0 6	18 4	17 32	16 39	16 42	27 22			n.a.
M20	14 9	11 10	4 28	8 4	0 6	6 1	4 30	22 46	0 5	13 20	1 40	2 25	2 22	18 18	0 41	22 50	0 6	18 5	17 32	16 36	16 41	27 23			n.a.
T 21	13 49	5 0	3 47	7 22	0s 1	6 24	4 39	22 51	0 6	13 23	1 40	2 27	2 22	18 17	0 41	22 50	0 6	18 5	17 32	16 33	16 40	27 23			n.a.
W22	13 30	1n13	2 55	6 40	0 8	6 47	4 47	22 56	0 7	13 26	1 40	2 30	2 22	18 16	0 41	22 50	0 6	18 6	17 32	16 31	16 39	27 24			n.a.
T 23	13 10	7 12	1 54	5 58	0 16	7 9	4 56	23 1	0 8	13 29	1 40	2 32	2 22	18 15	0 41	22 50	0 6	18 6	17 32	16 30	16 38	27 25			n.a.
F 24	12 50	12 42	0 50	5 16	0 23	7 30	5 5	23 6	0 9	13 32	1 40	2 34	2 21	18 14	0 41	22 50	0 6	18 7	17 33	16 30	16 37	27 25			n.a.
S 25	12 29	17 34	0n15	4 35	0 31	7 51	5 13	23 11	0 10	13 35	1 40	2 37	2 21	18 13	0 41	22 51	0 6	18 7	17 33	16 30	16 36	27 26			n.a.
S 26	12 9	21 38	1 18	3 53	0 38	8 12	5 22	23 15	0 11	13 38	1 40	2 39	2 21	18 12	0 41	22 51	0 6	18 8	17 33	16 30	16 35	27 26			n.a.
M27	11 48	24 43	2 17	3 12	0 46	8 31	5 30	23 20	0 12	13 40	1 40	2 42	2 21	18 11	0 41	22 51	0 6	18 9	17 33	16 29	16 34	27 27			n.a.
T 28	11 27	26 43	3 10	2 31	0 54	8 50	5 39	23 24	0 14	13 43	1 40	2 44	2 21	18 10	0 41	22 51	0 6	18 9	17 33	16 29	16 33	27 27			n.a.
W29	11 6	27 30	3 54	1 51	1 2	9 9	5 47	23 28	0 15	13 46	1 40	2 46	2 21	18 9	0 41	22 51	0 6	18 10	17 33	16 27	16 32	27 28			n.a.
T 30	10 45	27 1	4 28	1 11	1 9	9 27	5 56	23 32	0 16	13 49	1 40	2 49	2 20	18 8	0 41	22 51	0 6	18 10	17 33	16 25	16 31	27 28			n.a.
F 31	10n23	25n16	4n51	0n31	1s17	9s44	6s 4	23n36	0n17	13s52	1s40	2s51	2n20	18n 7	0n41	22s51	0n 6	18s11	17s34	16n22	16n31	27n29			n.a.

Julian Day Number = 1671230.5, Delta T = 03h20m27s
Ecliptic obliquity = 23°42'48, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'50, Lahiri = - 5°50'49 Julian Calendar 1 Aug. 138 BCE == Greg. Calendar 29 July 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

SEPTEMBER 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 25 27	4♍21'04	11♌35	27♍ 9	10♎46	20♊19	27°R54	12♎38	11♌49	14°R 9	24°R38	14°R18	14♉54	2♋21	n.a.	S 1
S 2	22 29 23	5°20'11	24° 1	28°28	11° 6	20°52	27♒46	12°44	11°52	14♏ 8	24♓37	14♉ 5	14°51	2°27	n.a.	S 2
M 3	22 33 20	6°19'21	6♍41	29°46	11°24	21°25	27°38	12°50	11°56	14° 7	24°36	13°53	14°48	2°34	n.a.	M 3
T 4	22 37 16	7°18'33	19°32	1♎ 3	11°41	21°58	27°30	12°57	11°59	14° 6	24°35	13°42	14°45	2°41	n.a.	T 4
W 5	22 41 13	8°17'48	2♎36	2°18	11°55	22°30	27°22	13° 3	12° 3	14° 5	24°33	13°33	14°42	2°47	n.a.	W 5
T 6	22 45 9	9°17'04	15°52	3°31	12° 7	23° 3	27°14	13° 9	12° 6	14° 5	24°32	13°28	14°38	2°54	n.a.	T 6
F 7	22 49 6	10°16'22	29°17	4°43	12°17	23°35	27° 7	13°15	12°10	14° 4	24°31	13°25	14°35	3° 1	n.a.	F 7
S 8	22 53 2	11°15'42	12♏53	5°54	12°25	24° 7	26°59	13°22	12°13	14° 3	24°30	13°D24	14°32	3° 7	n.a.	S 8
S 9	22 56 59	12°15'04	26°39	7° 2	12°31	24°39	26°52	13°28	12°16	14° 2	24°29	13°24	14°29	3°14	n.a.	S 9
M10	23 0 55	13°14'28	10♐36	8° 9	12°34	25°11	26°44	13°35	12°20	14° 2	24°28	13°R25	14°26	3°21	n.a.	M10
T 11	23 4 52	14°13'54	24°42	9°13	12°R36	25°42	26°37	13°41	12°23	14° 1	24°27	13°24	14°23	3°27	n.a.	T 11
W12	23 8 49	15°13'21	8♑58	10°15	12°34	26°14	26°30	13°47	12°26	14° 1	24°26	13°22	14°19	3°34	n.a.	W12
T 13	23 12 45	16°12'51	23°21	11°14	12°31	26°45	26°23	13°54	12°30	14° 0	24°24	13°17	14°16	3°41	n.a.	T 13
F 14	23 16 42	17°12'22	7♒48	12°10	12°25	27°16	26°16	14° 1	12°33	13°59	24°23	13°10	14°13	3°48	n.a.	F 14
S 15	23 20 38	18°11'55	22°12	13° 4	12°16	27°47	26° 9	14° 7	12°36	13°59	24°22	13° 2	14°10	3°54	n.a.	S 15
S 16	23 24 35	19°11'30	6♓28	13°54	12° 5	28°17	26° 2	14°14	12°39	13°59	24°21	12°53	14° 7	4° 1	n.a.	S 16
M17	23 28 31	20°11'07	20°31	14°40	11°52	28°48	25°55	14°21	12°43	13°58	24°20	12°44	14° 4	4° 8	n.a.	M17
T 18	23 32 28	21°10'46	4♈15	15°22	11°36	29°18	25°49	14°27	12°46	13°58	24°19	12°37	14° 0	4°14	n.a.	T 18
W19	23 36 24	22°10'27	17°38	16° 0	11°18	29°48	25°42	14°34	12°49	13°57	24°18	12°32	13°57	4°21	n.a.	W19
T 20	23 40 21	23°10'11	0♉38	16°32	10°58	0♋18	25°36	14°41	12°52	13°57	24°16	12°29	13°54	4°28	n.a.	T 20
F 21	23 44 18	24° 9'57	13°17	17° 0	10°36	0°47	25°30	14°47	12°55	13°57	24°15	12°D29	13°51	4°34	n.a.	F 21
S 22	23 48 14	25° 9'45	25°38	17°21	10°11	1°16	25°24	14°54	12°58	13°56	24°14	12°29	13°48	4°41	n.a.	S 22
S 23	23 52 11	26° 9'35	7♊43	17°35	9°44	1°46	25°18	15° 1	13° 1	13°56	24°13	12°31	13°44	4°48	n.a.	S 23
M24	23 56 7	27° 9'28	19°39	17°R43	9°16	2°14	25°12	15° 8	13° 4	13°56	24°12	12°32	13°41	4°54	n.a.	M24
T 25	0 0 4	28° 9'23	1♋30	17°43	8°46	2°43	25° 7	15°15	13° 7	13°56	24°11	12°R32	13°38	5° 1	n.a.	T 25
W26	0 4 0	29° 9'21	13°21	17°35	8°14	3°11	25° 2	15°22	13°10	13°56	24°10	12°31	13°35	5° 8	n.a.	W26
T 27	0 7 57	0♎ 9'20	25°18	17°18	7°41	3°40	24°56	15°29	13°13	13°56	24° 8	12°28	13°32	5°15	n.a.	T 27
F 28	0 11 53	1° 9'22	7♌24	16°51	7° 7	4° 7	24°51	15°36	13°16	13°55	24° 7	12°23	13°29	5°21	n.a.	F 28
S 29	0 15 50	2° 9'26	19°43	16°16	6°32	4°35	24°46	15°43	13°18	13°55	24° 6	12°17	13°25	5°28	n.a.	S 29
S 30	0 19 47	3♎ 9'32	2♍19	15♎32	5♎56	5♋ 2	24♒42	15♎50	13♌21	13°D55	24♓ 5	12♉ 9	13♉22	5♋35	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	10n 2	22n19	5n 1	0s 8	1s24	10s 0	6s12	23n39	0n18	13s55	1s40	2s54	2n20	18n 6	0n41	22s51	0n 6	18s11	17s34	16n19	16n30	27n29		n.a.
S 2	9 40	18 20	4 57	0 47	1 32	10 15	6 20	23 43	0 19	13 57	1 40	2 56	2 20	18 5	0 41	22 52	0 6	18 12	17 34	16 15	16 29	27 30		n.a.
M 3	9 18	13 28	4 39	1 25	1 40	10 30	6 28	23 46	0 20	14 0	1 40	2 59	2 20	18 4	0 41	22 52	0 6	18 12	17 34	16 11	16 28	27 30		n.a.
T 4	8 56	7 56	4 5	2 3	1 47	10 43	6 36	23 49	0 21	14 3	1 40	3 2	2 20	18 3	0 41	22 52	0 6	18 13	17 34	16 8	16 27	27 31		n.a.
W 5	8 33	1 59	3 19	2 40	1 54	10 56	6 44	23 52	0 23	14 6	1 40	3 4	2 20	18 2	0 41	22 52	0 6	18 13	17 34	16 5	16 26	27 31		n.a.
T 6	8 11	4s 9	2 21	3 16	2 1	11 8	6 51	23 55	0 24	14 8	1 40	3 7	2 19	18 1	0 41	22 52	0 6	18 14	17 34	16 4	16 25	27 31		n.a.
F 7	7 48	10 11	1 15	3 51	2 8	11 19	6 58	23 58	0 25	14 11	1 40	3 9	2 19	18 0	0 41	22 52	0 6	18 15	17 34	16 3	16 24	27 32		n.a.
S 8	7 25	15 50	0 3	4 26	2 15	11 28	7 5	24 1	0 26	14 14	1 40	3 12	2 19	17 59	0 41	22 52	0 6	18 15	17 34	16 2	16 23	27 32		n.a.
S 9	7 3	20 46	1s10	4 59	2 22	11 37	7 12	24 3	0 27	14 16	1 40	3 15	2 19	17 58	0 41	22 52	0 6	18 16	17 35	16 2	16 22	27 33		n.a.
M10	6 40	24 36	2 20	5 32	2 28	11 44	7 19	24 6	0 28	14 19	1 40	3 17	2 19	17 57	0 41	22 52	0 6	18 16	17 35	16 3	16 21	27 33		n.a.
T 11	6 16	26 58	3 22	6 3	2 35	11 50	7 25	24 8	0 30	14 21	1 40	3 20	2 19	17 56	0 41	22 52	0 6	18 17	17 35	16 3	16 20	27 34		n.a.
W12	5 53	27 36	4 12	6 33	2 40	11 55	7 30	24 10	0 31	14 23	1 40	3 22	2 19	17 55	0 41	22 52	0 6	18 17	17 35	16 2	16 19	27 34		n.a.
T 13	5 30	26 23	4 47	7 2	2 46	11 58	7 36	24 13	0 32	14 26	1 40	3 25	2 19	17 54	0 41	22 53	0 6	18 18	17 35	16 0	16 18	27 34		n.a.
F 14	5 7	23 25	5 4	7 29	2 51	12 0	7 40	24 14	0 33	14 28	1 40	3 28	2 19	17 53	0 41	22 53	0 6	18 18	17 35	15 58	16 17	27 35		n.a.
S 15	4 43	19 0	5 1	7 55	2 56	12 1	7 45	24 16	0 35	14 30	1 40	3 30	2 18	17 52	0 41	22 53	0 6	18 19	17 35	15 56	16 16	27 35		n.a.
S 16	4 20	13 34	4 40	8 19	3 1	12 0	7 49	24 18	0 36	14 33	1 40	3 33	2 18	17 52	0 41	22 53	0 6	18 19	17 35	15 53	16 15	27 35		n.a.
M17	3 56	7 30	4 2	8 40	3 4	11 58	7 52	24 20	0 37	14 35	1 40	3 36	2 18	17 51	0 41	22 53	0 6	18 20	17 35	15 50	16 14	27 36		n.a.
T 18	3 32	1 12	3 11	9 0	3 8	11 54	7 55	24 21	0 39	14 37	1 39	3 39	2 18	17 50	0 41	22 53	0 5	18 20	17 35	15 48	16 13	27 36		n.a.
W19	3 8	5n 0	2 10	9 17	3 10	11 48	7 57	24 23	0 40	14 39	1 39	3 41	2 18	17 49	0 41	22 53	0 5	18 21	17 35	15 47	16 12	27 36		n.a.
T 20	2 44	10 50	1 3	9 31	3 12	11 41	7 58	24 24	0 41	14 41	1 39	3 44	2 18	17 48	0 41	22 53	0 5	18 21	17 35	15 46	16 12	27 37		n.a.
F 21	2 21	16 5	0n 4	9 43	3 13	11 33	7 58	24 25	0 42	14 43	1 39	3 47	2 18	17 47	0 41	22 53	0 5	18 21	17 35	15 46	16 11	27 37		n.a.
S 22	1 57	20 32	1 10	9 51	3 13	11 23	7 58	24 26	0 44	14 45	1 39	3 49	2 18	17 46	0 41	22 53	0 5	18 22	17 35	15 46	16 10	27 37		n.a.
S 23	1 33	24 1	2 12	9 56	3 13	11 11	7 57	24 27	0 45	14 47	1 39	3 52	2 18	17 46	0 41	22 53	0 5	18 22	17 35	15 46	16 9	27 38		n.a.
M24	1 9	26 25	3 7	9 57	3 11	10 58	7 55	24 28	0 47	14 49	1 39	3 55	2 18	17 45	0 41	22 53	0 5	18 23	17 35	15 47	16 8	27 38		n.a.
T 25	0 44	27 36	3 54	9 54	3 7	10 44	7 53	24 29	0 48	14 50	1 38	3 58	2 18	17 44	0 41	22 53	0 5	18 23	17 35	15 47	16 7	27 38		n.a.
W26	0 20	27 31	4 31	9 47	3 2	10 28	7 49	24 30	0 49	14 52	1 38	4 0	2 17	17 43	0 41	22 53	0 5	18 24	17 35	15 46	16 6	27 39		n.a.
T 27	0s 4	26 10	4 56	9 34	2 56	10 11	7 45	24 31	0 51	14 54	1 38	4 3	2 17	17 42	0 41	22 53	0 5	18 24	17 35	15 45	16 5	27 39		n.a.
F 28	0 28	23 36	5 8	9 17	2 48	9 52	7 40	24 31	0 52	14 55	1 38	4 6	2 17	17 41	0 41	22 53	0 5	18 24	17 35	15 44	16 4	27 39		n.a.
S 29	0 52	19 55	5 7	8 54	2 39	9 33	7 33	24 32	0 54	14 57	1 38	4 9	2 17	17 41	0 41	22 53	0 5	18 25	17 35	15 42	16 3	27 39		n.a.
S 30	1s16	15n17	4n51	8s26	2s27	9s12	7s26	24n32	0n55	14s58	1s38	4s11	2n17	17n40	0n41	22s53	0n 5	18s25	17s35	15n40	16n 2	27n40		n.a.

Julian Day Number = 1671261.5, Delta T = 03h20m26s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'46, Lahiri = - 5°50'45 Julian Calendar 1 Sept. 138 BCE == Greg. Calendar 29 Aug. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

OCTOBER 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 23 43	4♎ 9'41	15♍11	14°R38	5°R20	5♋30	24°R37	15♎57	13♌24	13♏55	24°R 4	12°R 2	13♉19	5♋41	n.a.	M 1
T 2	0 27 40	5° 9'51	28°21	13♎37	4♎44	5°56	24♒33	16° 4	13°27	13°56	24♓ 3	11♉56	13°16	5°48	n.a.	T 2
W 3	0 31 36	6°10'03	11♎47	12°28	4° 8	6°23	24°29	16°11	13°29	13°56	24° 2	11°52	13°13	5°55	n.a.	W 3
T 4	0 35 33	7°10'17	25°27	11°15	3°31	6°49	24°25	16°18	13°32	13°56	24° 0	11°49	13° 9	6° 1	n.a.	T 4
F 5	0 39 29	8°10'33	9♏19	9°57	2°56	7°15	24°21	16°25	13°34	13°56	23°59	11°D48	13° 6	6° 8	n.a.	F 5
S 6	0 43 26	9°10'51	23°18	8°39	2°21	7°41	24°17	16°32	13°37	13°56	23°58	11°48	13° 3	6°15	n.a.	S 6
S 7	0 47 22	10°11'10	7♐24	7°21	1°47	8° 6	24°14	16°39	13°39	13°56	23°57	11°49	13° 0	6°21	n.a.	S 7
M 8	0 51 19	11°11'31	21°33	6° 8	1°15	8°31	24°10	16°46	13°42	13°57	23°56	11°51	12°57	6°28	n.a.	M 8
T 9	0 55 15	12°11'54	5♑43	5° 1	0°43	8°56	24° 7	16°53	13°44	13°57	23°55	11°R52	12°54	6°35	n.a.	T 9
W10	0 59 12	13°12'18	19°53	4° 1	0°14	9°20	24° 5	17° 0	13°47	13°57	23°54	11°52	12°50	6°42	n.a.	W10
T 11	1 3 9	14°12'43	4♒ 1	3°12	29♍46	9°44	24° 2	17° 7	13°49	13°58	23°53	11°50	12°47	6°48	n.a.	T 11
F 12	1 7 5	15°13'10	18° 4	2°33	29°20	10° 8	24° 0	17°14	13°51	13°58	23°52	11°48	12°44	6°55	n.a.	F 12
S 13	1 11 2	16°13'38	2♓ 1	2° 6	28°56	10°31	23°57	17°21	13°53	13°59	23°51	11°44	12°41	7° 2	n.a.	S 13
S 14	1 14 58	17°14'08	15°48	1°51	28°34	10°54	23°55	17°28	13°56	13°59	23°50	11°41	12°38	7° 8	n.a.	S 14
M15	1 18 55	18°14'39	29°23	1°D47	28°15	11°17	23°53	17°36	13°58	14° 0	23°49	11°37	12°35	7°15	n.a.	M15
T 16	1 22 51	19°15'12	12♈44	1°54	27°57	11°39	23°52	17°43	14° 0	14° 0	23°48	11°34	12°31	7°22	n.a.	T 16
W17	1 26 48	20°15'46	25°49	2°12	27°43	12° 1	23°50	17°50	14° 2	14° 1	23°47	11°32	12°28	7°28	n.a.	W17
T 18	1 30 44	21°16'22	8♉37	2°39	27°30	12°23	23°49	17°57	14° 4	14° 1	23°45	11°D31	12°25	7°35	n.a.	T 18
F 19	1 34 41	22°16'59	21° 9	3°15	27°21	12°44	23°48	18° 4	14° 6	14° 2	23°45	11°31	12°22	7°42	n.a.	F 19
S 20	1 38 38	23°17'39	3♊26	3°59	27°13	13° 5	23°47	18°11	14° 8	14° 3	23°44	11°32	12°19	7°49	n.a.	S 20
S 21	1 42 34	24°18'20	15°31	4°50	27° 8	13°26	23°47	18°18	14°10	14° 3	23°43	11°34	12°15	7°55	n.a.	S 21
M22	1 46 31	25°19'03	27°27	5°46	27°D 6	13°46	23°46	18°25	14°11	14° 4	23°42	11°36	12°12	8° 2	n.a.	M22
T 23	1 50 27	26°19'47	9♋18	6°49	27° 6	14° 5	23°D46	18°32	14°13	14° 5	23°41	11°37	12° 9	8° 9	n.a.	T 23
W24	1 54 24	27°20'34	21°10	7°55	27° 9	14°24	23°46	18°39	14°15	14° 6	23°40	11°37	12° 6	8°15	n.a.	W24
T 25	1 58 20	28°21'22	3♌ 6	9° 6	27°14	14°43	23°46	18°46	14°16	14° 6	23°39	11°R38	12° 3	8°22	n.a.	T 25
F 26	2 2 17	29°22'11	15°11	10°20	27°21	15° 1	23°47	18°53	14°18	14° 7	23°38	11°37	12° 0	8°29	n.a.	F 26
S 27	2 6 13	0♏23'02	27°30	11°37	27°31	15°19	23°47	19° 0	14°20	14° 8	23°37	11°36	11°56	8°35	n.a.	S 27
S 28	2 10 10	1°23'55	10♍ 7	12°57	27°42	15°37	23°48	19° 7	14°21	14° 9	23°36	11°35	11°53	8°42	n.a.	S 28
M29	2 14 7	2°24'49	23° 5	14°19	27°56	15°53	23°49	19°14	14°22	14°10	23°35	11°33	11°50	8°49	n.a.	M29
T 30	2 18 3	3°25'44	6♎25	15°42	28°13	16°10	23°51	19°21	14°24	14°11	23°34	11°32	11°47	8°56	n.a.	T 30
W31	2 22 0	4♏26'41	20♎ 7	17♎ 8	28♍31	16♋26	23♒52	19♎28	14♌25	14♏12	23♓34	11♉31	11♉44	9♋ 2	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	1s40	9n53	4n20	7s53	2s14	8s50	7s18	24n33	0n57	15s 0	1s37	4s14	2n17	17n39	0n42	22s53	0n 5	18s26	17s35	15n37	16n 1	27n40			n.a.
T 2	2 4	3 56	3 34	7 15	1 59	8 27	7 10	24 33	0 58	15 1	1 37	4 17	2 17	17 38	0 42	22 53	0 5	18 26	17 34	15 36	16 0	27 40			n.a.
W 3	2 29	2s19	2 36	6 32	1 42	8 4	7 0	24 33	1 0	15 2	1 37	4 20	2 17	17 38	0 42	22 53	0 5	18 26	17 34	15 34	15 59	27 40			n.a.
T 4	2 53	8 35	1 28	5 46	1 23	7 40	6 50	24 33	1 1	15 3	1 37	4 22	2 17	17 37	0 42	22 53	0 5	18 27	17 34	15 33	15 58	27 41			n.a.
F 5	3 17	14 33	0 14	4 58	1 4	7 16	6 39	24 33	1 3	15 4	1 37	4 25	2 17	17 36	0 42	22 53	0 5	18 27	17 34	15 33	15 57	27 41			n.a.
S 6	3 41	19 49	1s 3	4 8	0 44	6 51	6 27	24 34	1 4	15 5	1 36	4 28	2 17	17 36	0 42	22 53	0 5	18 28	17 34	15 33	15 56	27 41			n.a.
S 7	4 5	24 1	2 15	3 18	0 23	6 26	6 15	24 34	1 6	15 6	1 36	4 31	2 17	17 35	0 42	22 53	0 5	18 28	17 34	15 33	15 55	27 41			n.a.
M 8	4 29	26 46	3 20	2 30	0 2	6 1	6 2	24 34	1 8	15 7	1 36	4 34	2 17	17 34	0 42	22 53	0 5	18 28	17 34	15 34	15 54	27 41			n.a.
T 9	4 52	27 48	4 13	1 44	0n18	5 36	5 48	24 34	1 9	15 8	1 36	4 36	2 17	17 34	0 42	22 53	0 5	18 29	17 34	15 34	15 53	27 42			n.a.
W10	5 16	27 1	4 51	1 3	0 37	5 12	5 35	24 34	1 11	15 9	1 36	4 39	2 17	17 33	0 42	22 53	0 5	18 29	17 34	15 34	15 52	27 42			n.a.
T 11	5 40	24 30	5 10	0 27	0 55	4 48	5 20	24 33	1 13	15 10	1 35	4 42	2 17	17 32	0 42	22 53	0 5	18 29	17 33	15 34	15 51	27 42			n.a.
F 12	6 4	20 31	5 12	0n 4	1 11	4 24	5 6	24 33	1 14	15 10	1 35	4 45	2 17	17 32	0 42	22 53	0 5	18 29	17 33	15 33	15 50	27 42			n.a.
S 13	6 27	15 27	4 54	0 28	1 26	4 1	4 51	24 33	1 16	15 11	1 35	4 47	2 17	17 31	0 42	22 53	0 5	18 30	17 33	15 32	15 49	27 42			n.a.
S 14	6 51	9 39	4 20	0 46	1 39	3 38	4 36	24 33	1 18	15 11	1 35	4 50	2 17	17 30	0 42	22 53	0 5	18 30	17 33	15 31	15 48	27 42			n.a.
M15	7 14	3 28	3 31	0 57	1 49	3 17	4 21	24 33	1 19	15 11	1 34	4 53	2 17	17 30	0 42	22 53	0 5	18 30	17 33	15 29	15 47	27 42			n.a.
T 16	7 37	2n45	2 32	1 3	1 59	2 56	4 6	24 33	1 21	15 12	1 34	4 56	2 17	17 29	0 42	22 53	0 5	18 31	17 33	15 29	15 46	27 43			n.a.
W17	8 0	8 46	1 26	1 2	2 6	2 36	3 51	24 32	1 23	15 12	1 34	4 58	2 17	17 29	0 42	22 53	0 5	18 31	17 33	15 28	15 45	27 43			n.a.
T 18	8 23	14 17	0 16	0 57	2 12	2 18	3 36	24 32	1 25	15 12	1 34	5 1	2 17	17 28	0 42	22 53	0 5	18 31	17 32	15 28	15 44	27 43			n.a.
F 19	8 46	19 6	0n53	0 46	2 16	2 0	3 21	24 32	1 27	15 12	1 33	5 4	2 17	17 28	0 42	22 53	0 5	18 31	17 32	15 28	15 43	27 43			n.a.
S 20	9 9	23 1	1 58	0 31	2 19	1 44	3 6	24 32	1 28	15 12	1 33	5 6	2 17	17 27	0 42	22 53	0 5	18 32	17 32	15 28	15 42	27 43			n.a.
S 21	9 32	25 51	2 57	0 12	2 21	1 28	2 52	24 31	1 30	15 12	1 33	5 9	2 17	17 27	0 42	22 53	0 5	18 32	17 32	15 29	15 41	27 43			n.a.
M22	9 54	27 29	3 47	0s10	2 21	1 14	2 37	24 31	1 32	15 12	1 33	5 12	2 17	17 26	0 42	22 53	0 5	18 32	17 32	15 29	15 40	27 43			n.a.
T 23	10 16	27 50	4 28	0 35	2 21	1 1	2 23	24 31	1 34	15 12	1 32	5 15	2 17	17 26	0 42	22 53	0 5	18 32	17 31	15 29	15 39	27 43			n.a.
W24	10 39	26 54	4 57	1 3	2 19	0 49	2 9	24 31	1 36	15 12	1 32	5 17	2 17	17 25	0 42	22 53	0 5	18 32	17 31	15 30	15 38	27 43			n.a.
T 25	11 1	24 45	5 13	1 33	2 17	0 38	1 55	24 31	1 38	15 11	1 32	5 20	2 17	17 25	0 42	22 53	0 5	18 33	17 31	15 30	15 38	27 43			n.a.
F 26	11 23	21 29	5 16	2 5	2 14	0 29	1 41	24 31	1 40	15 11	1 32	5 23	2 17	17 24	0 42	22 52	0 5	18 33	17 31	15 29	15 37	27 43			n.a.
S 27	11 44	17 14	5 4	2 39	2 11	0 21	1 28	24 31	1 42	15 11	1 31	5 25	2 17	17 24	0 43	22 52	0 5	18 33	17 30	15 29	15 36	27 43			n.a.
S 28	12 6	12 8	4 38	3 14	2 6	0 14	1 15	24 31	1 44	15 10	1 31	5 28	2 17	17 23	0 43	22 52	0 5	18 33	17 30	15 29	15 35	27 43			n.a.
M29	12 27	6 24	3 57	3 50	2 2	0 8	1 3	24 31	1 46	15 9	1 31	5 31	2 17	17 23	0 43	22 52	0 5	18 33	17 30	15 28	15 34	27 43			n.a.
T 30	12 48	0 13	3 3	4 27	1 57	0 3	0 51	24 31	1 48	15 9	1 31	5 33	2 17	17 23	0 43	22 52	0 5	18 33	17 30	15 28	15 33	27 43			n.a.
W31	13s 9	6s10	1n56	5s 5	1n52	0n 0	0s39	24n31	1n50	15s 8	1s30	5s36	2n17	17n22	0n43	22s52	0n 5	18s33	17s30	15n28	15n32	27n43			n.a.

Julian Day Number = 1671291.5, Delta T = 03h20m25s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'41, Lahiri = - 5°50'41 Julian Calendar 1 Oct. 138 BCE == Greg. Calendar 28 Sept. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

NOVEMBER 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 25 56	5♏27'39	4♏ 9	18♎34	28♍51	16♋41	23♒54	19♎35	14♌26	14♑13	23°R33	11°R31	11♉40	9♋ 9	n.a.	T 1
F 2	2 29 53	6°28'39	18°27	20° 1	29°13	16°56	23°56	19°42	14°28	14°14	23♓32	11°D31	11°37	9°16	n.a.	F 2
S 3	2 33 49	7°29'39	2♐56	21°30	29°37	17°10	23°58	19°49	14°29	14°15	23°31	11♉31	11°34	9°22	n.a.	S 3
S 4	2 37 46	8°30'41	17°31	22°59	0♎ 2	17°24	24° 0	19°56	14°30	14°17	23°30	11°31	11°31	9°29	n.a.	S 4
M 5	2 41 42	9°31'43	2♑ 4	24°29	0°30	17°37	24° 3	20° 3	14°31	14°18	23°30	11°32	11°28	9°36	n.a.	M 5
T 6	2 45 39	10°32'47	16°32	25°59	0°59	17°50	24° 5	20°10	14°32	14°19	23°29	11°32	11°25	9°42	n.a.	T 6
W 7	2 49 36	11°33'50	0♒50	27°30	1°30	18° 2	24° 8	20°16	14°33	14°20	23°28	11°R32	11°21	9°49	n.a.	W 7
T 8	2 53 32	12°34'55	14°56	29° 1	2° 2	18°13	24°11	20°23	14°34	14°22	23°27	11°D32	11°18	9°56	n.a.	T 8
F 9	2 57 29	13°36'00	28°47	0♏32	2°35	18°24	24°15	20°30	14°35	14°23	23°27	11°32	11°15	10° 3	n.a.	F 9
S 10	3 1 25	14°37'05	12♓24	2° 4	3°11	18°34	24°18	20°37	14°35	14°24	23°26	11°32	11°12	10° 9	n.a.	S 10
S 11	3 5 22	15°38'11	25°47	3°36	3°47	18°44	24°22	20°43	14°36	14°26	23°25	11°32	11° 9	10°16	n.a.	S 11
M12	3 9 18	16°39'18	8♈56	5° 8	4°25	18°53	24°26	20°50	14°37	14°27	23°25	11°33	11° 6	10°23	n.a.	M12
T 13	3 13 15	17°40'25	21°51	6°40	5° 4	19° 1	24°30	20°57	14°37	14°28	23°24	11°33	11° 2	10°29	n.a.	T 13
W14	3 17 12	18°41'33	4♉34	8°13	5°44	19° 9	24°34	21° 3	14°38	14°30	23°24	11°34	10°59	10°36	n.a.	W14
T 15	3 21 8	19°42'41	17° 5	9°45	6°26	19°16	24°38	21°10	14°39	14°31	23°23	11°R34	10°56	10°43	n.a.	T 15
F 16	3 25 5	20°43'50	29°24	11°18	7° 9	19°23	24°43	21°16	14°39	14°33	23°22	11°33	10°53	10°50	n.a.	F 16
S 17	3 29 1	21°45'00	11♊33	12°51	7°53	19°28	24°48	21°23	14°39	14°34	23°22	11°32	10°50	10°56	n.a.	S 17
S 18	3 32 58	22°46'11	23°34	14°24	8°37	19°33	24°53	21°29	14°40	14°36	23°21	11°31	10°46	11° 3	n.a.	S 18
M19	3 36 54	23°47'22	5♋29	15°57	9°23	19°38	24°58	21°36	14°40	14°37	23°21	11°29	10°43	11°10	n.a.	M19
T 20	3 40 51	24°48'34	17°20	17°30	10°10	19°41	25° 3	21°42	14°40	14°39	23°20	11°27	10°40	11°16	n.a.	T 20
W21	3 44 47	25°49'46	29°11	19° 4	10°58	19°44	25° 9	21°48	14°40	14°41	23°20	11°25	10°37	11°23	n.a.	W21
T 22	3 48 44	26°50'59	11♌ 6	20°37	11°47	19°46	25°15	21°54	14°40	14°42	23°19	11°24	10°34	11°30	n.a.	T 22
F 23	3 52 41	27°52'13	23° 9	22°11	12°36	19°47	25°21	22° 1	14°R41	14°44	23°19	11°D23	10°31	11°36	n.a.	F 23
S 24	3 56 37	28°53'27	5♍24	23°45	13°27	19°R48	25°27	22° 7	14°41	14°46	23°19	11°23	10°27	11°43	n.a.	S 24
S 25	4 0 34	29°54'42	17°56	25°20	14°18	19°48	25°33	22°13	14°40	14°47	23°18	11°24	10°24	11°50	n.a.	S 25
M26	4 4 30	0♐55'58	0♎50	26°54	15°10	19°47	25°39	22°19	14°40	14°49	23°18	11°25	10°21	11°57	n.a.	M26
T 27	4 8 27	1°57'13	14° 8	28°29	16° 3	19°45	25°46	22°25	14°40	14°51	23°18	11°27	10°18	12° 3	n.a.	T 27
W28	4 12 23	2°58'30	27°53	0♐ 4	16°56	19°42	25°53	22°31	14°40	14°53	23°17	11°28	10°15	12°10	n.a.	W28
T 29	4 16 20	3°59'46	12♏ 4	1°39	17°50	19°39	26° 0	22°37	14°40	14°55	23°17	11°R28	10°12	12°17	n.a.	T 29
F 30	4 20 16	5♐ 1'03	26♏38	3♐14	18♎45	19♋35	26♒ 7	22♎43	14♌39	14♑56	23♓17	11♉28	10♉ 8	12♋23	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s30	12s25	0n41	5s43	1n46	0n 3	0s27	24n31	1n52	15s 7	1s30	5s38	2n17	17n22	0n43	22s52	0n 5	18s33	17s29	15n28	15n31	27n43		n.a.
F 2	13 50	18 8	0s38	6 22	1 40	0 4	0 16	24 31	1 54	15 6	1 30	5 41	2 17	17 22	0 43	22 52	0 5	18 34	17 29	15 28	15 30	27 43		n.a.
S 3	14 10	22 53	1 56	7 1	1 34	0 5	0 5	24 31	1 57	15 5	1 29	5 44	2 17	17 21	0 43	22 52	0 5	18 34	17 29	15 28	15 29	27 43		n.a.
S 4	14 30	26 13	3 7	7 41	1 28	0 4	0n 5	24 32	1 59	15 4	1 29	5 46	2 17	17 21	0 43	22 52	0 5	18 34	17 28	15 28	15 28	27 43		n.a.
M 5	14 50	27 47	4 5	8 20	1 21	0 2	0 16	24 32	2 1	15 3	1 29	5 49	2 17	17 21	0 43	22 51	0 5	18 34	17 28	15 28	15 27	27 43		n.a.
T 6	15 9	27 26	4 48	8 59	1 15	0s 0	0 25	24 33	2 3	15 2	1 29	5 51	2 17	17 21	0 43	22 51	0 5	18 34	17 28	15 28	15 26	27 43		n.a.
W 7	15 29	25 16	5 12	9 39	1 8	0 4	0 35	24 33	2 5	15 1	1 28	5 54	2 17	17 20	0 43	22 51	0 5	18 34	17 28	15 28	15 25	27 43		n.a.
T 8	15 47	21 35	5 17	10 18	1 1	0 9	0 44	24 34	2 8	15 0	1 28	5 56	2 17	17 20	0 43	22 51	0 5	18 34	17 27	15 28	15 24	27 43		n.a.
F 9	16 6	16 45	5 3	10 57	0 54	0 14	0 53	24 35	2 10	14 58	1 28	5 59	2 17	17 20	0 43	22 51	0 5	18 34	17 27	15 28	15 23	27 43		n.a.
S 10	16 24	11 10	4 33	11 35	0 47	0 20	1 1	24 36	2 12	14 57	1 28	6 1	2 17	17 20	0 43	22 51	0 5	18 34	17 27	15 28	15 22	27 43		n.a.
S 11	16 43	5 10	3 48	12 13	0 40	0 27	1 10	24 37	2 15	14 55	1 27	6 4	2 18	17 20	0 43	22 51	0 5	18 34	17 26	15 28	15 21	27 43		n.a.
M12	17 0	0n58	2 51	12 51	0 33	0 35	1 18	24 38	2 17	14 54	1 27	6 6	2 18	17 19	0 43	22 51	0 5	18 34	17 26	15 28	15 20	27 43		n.a.
T 13	17 18	6 57	1 47	13 29	0 27	0 44	1 25	24 39	2 20	14 52	1 27	6 8	2 18	17 19	0 43	22 50	0 5	18 34	17 26	15 28	15 19	27 43		n.a.
W14	17 35	12 35	0 39	14 6	0 20	0 54	1 32	24 40	2 22	14 51	1 27	6 11	2 18	17 19	0 43	22 50	0 5	18 34	17 26	15 29	15 18	27 43		n.a.
T 15	17 52	17 37	0n31	14 42	0 13	1 4	1 39	24 42	2 24	14 49	1 26	6 13	2 18	17 19	0 43	22 50	0 5	18 34	17 25	15 29	15 17	27 43		n.a.
F 16	18 8	21 50	1 37	15 18	0 6	1 15	1 46	24 43	2 27	14 47	1 26	6 16	2 18	17 19	0 43	22 50	0 5	18 34	17 25	15 28	15 16	27 42		n.a.
S 17	18 25	25 3	2 39	15 53	0s 1	1 26	1 52	24 45	2 29	14 45	1 26	6 18	2 18	17 19	0 43	22 50	0 5	18 34	17 25	15 28	15 15	27 42		n.a.
S 18	18 41	27 5	3 32	16 28	0 8	1 39	1 59	24 46	2 32	14 43	1 26	6 20	2 18	17 19	0 43	22 50	0 5	18 33	17 24	15 28	15 14	27 42		n.a.
M19	18 56	27 52	4 16	17 2	0 14	1 52	2 4	24 48	2 34	14 41	1 25	6 23	2 18	17 19	0 44	22 50	0 5	18 33	17 24	15 27	15 13	27 42		n.a.
T 20	19 11	27 20	4 49	17 35	0 21	2 5	2 10	24 50	2 37	14 39	1 25	6 25	2 18	17 19	0 44	22 49	0 5	18 33	17 24	15 26	15 12	27 42		n.a.
W21	19 26	25 35	5 9	18 8	0 27	2 19	2 15	24 52	2 40	14 37	1 25	6 27	2 18	17 19	0 44	22 49	0 5	18 33	17 23	15 26	15 11	27 42		n.a.
T 22	19 41	22 42	5 16	18 39	0 34	2 34	2 20	24 55	2 42	14 35	1 25	6 29	2 19	17 19	0 44	22 49	0 5	18 33	17 23	15 25	15 10	27 42		n.a.
F 23	19 55	18 49	5 9	19 10	0 40	2 49	2 25	24 57	2 45	14 33	1 24	6 32	2 19	17 19	0 44	22 49	0 5	18 33	17 23	15 25	15 9	27 41		n.a.
S 24	20 8	14 6	4 49	19 40	0 46	3 5	2 29	25 0	2 47	14 30	1 24	6 34	2 19	17 19	0 44	22 49	0 4	18 33	17 22	15 25	15 8	27 41		n.a.
S 25	20 22	8 43	4 14	20 9	0 52	3 21	2 34	25 2	2 50	14 28	1 24	6 36	2 19	17 19	0 44	22 48	0 4	18 33	17 22	15 25	15 7	27 41		n.a.
M26	20 35	2 48	3 26	20 38	0 58	3 37	2 38	25 5	2 53	14 25	1 24	6 38	2 19	17 19	0 44	22 48	0 4	18 32	17 22	15 26	15 6	27 41		n.a.
T 27	20 47	3s25	2 25	21 5	1 4	3 54	2 41	25 8	2 55	14 23	1 23	6 40	2 19	17 19	0 44	22 48	0 4	18 32	17 21	15 26	15 5	27 41		n.a.
W28	21 0	9 41	1 14	21 31	1 9	4 12	2 45	25 11	2 58	14 20	1 23	6 43	2 19	17 19	0 44	22 48	0 4	18 32	17 21	15 27	15 4	27 40		n.a.
T 29	21 11	15 41	0s 3	21 57	1 14	4 29	2 48	25 14	3 1	14 18	1 23	6 45	2 19	17 19	0 44	22 48	0 4	18 32	17 21	15 27	15 3	27 40		n.a.
F 30	21s23	20s58	1s22	22s21	1s20	4s47	2n51	25n17	3n 3	14s15	1s23	6s47	2n19	17n19	0n44	22s48	0n 4	18s32	17s20	15n27	15n 2	27n40		n.a.

Julian Day Number = 1671322.5, Delta T = 03h20m24s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'37, Lahiri = - 5°50'37 Julian Calendar 1 Nov. 138 BCE == Greg. Calendar 29 Oct. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 138 BCE
geocentric

DECEMBER 138 BCE (-137) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 24 13	6♐ 2'20	11♐30	4♐50	19♎41	19°R30	26♒14	22♎49	14°R39	14♑58	23°R17	11°R26	10♉ 5	12♋30	n.a.	S 1
S 2	4 28 10	7° 3'38	26°31	6°26	20°37	19♋24	26°21	22°55	14♌38	15° 0	23♓16	11♉23	10° 2	12°37	n.a.	S 2
M 3	4 32 6	8° 4'55	11♑33	8° 3	21°33	19°17	26°29	23° 0	14°38	15° 2	23°16	11°19	9°59	12°44	n.a.	M 3
T 4	4 36 3	9° 6'11	26°26	9°40	22°30	19°10	26°37	23° 6	14°37	15° 4	23°16	11°15	9°56	12°50	n.a.	T 4
W 5	4 39 59	10° 7'28	11♒ 4	11°17	23°28	19° 1	26°44	23°11	14°37	15° 6	23°16	11°11	9°52	12°57	n.a.	W 5
T 6	4 43 56	11° 8'44	25°21	12°54	24°26	18°52	26°52	23°17	14°36	15° 8	23°16	11° 9	9°49	13° 4	n.a.	T 6
F 7	4 47 52	12° 9'59	9♓15	14°32	25°25	18°42	27° 1	23°22	14°35	15°10	23°16	11°D 8	9°46	13°10	n.a.	F 7
S 8	4 51 49	13°11'14	22°46	16°10	26°24	18°31	27° 9	23°28	14°35	15°12	23°16	11° 8	9°43	13°17	n.a.	S 8
S 9	4 55 46	14°12'28	5♈56	17°49	27°24	18°20	27°17	23°33	14°34	15°14	23°15	11°10	9°40	13°24	n.a.	S 9
M10	4 59 42	15°13'42	18°48	19°28	28°24	18° 7	27°26	23°39	14°33	15°16	23°15	11°12	9°37	13°31	n.a.	M10
T 11	5 3 39	16°14'55	1♉24	21° 7	29°24	17°54	27°35	23°44	14°32	15°18	23°D15	11°13	9°33	13°37	n.a.	T 11
W12	5 7 35	17°16'07	13°48	22°47	0♏25	17°41	27°44	23°49	14°31	15°20	23°15	11°R13	9°30	13°44	n.a.	W12
T 13	5 11 32	18°17'19	26° 2	24°27	1°26	17°26	27°53	23°54	14°30	15°22	23°15	11°12	9°27	13°51	n.a.	T 13
F 14	5 15 28	19°18'31	8♊ 9	26° 7	2°28	17°11	28° 2	23°59	14°29	15°24	23°15	11° 9	9°24	13°57	n.a.	F 14
S 15	5 19 25	20°19'42	20° 9	27°48	3°30	16°54	28°11	24° 4	14°28	15°26	23°16	11° 4	9°21	14° 4	n.a.	S 15
S 16	5 23 21	21°20'52	2♋ 5	29°29	4°33	16°38	28°21	24° 9	14°26	15°28	23°16	10°57	9°18	14°11	n.a.	S 16
M17	5 27 18	22°22'02	13°57	1♑10	5°35	16°20	28°30	24°14	14°25	15°30	23°16	10°49	9°14	14°17	n.a.	M17
T 18	5 31 15	23°23'11	25°49	2°52	6°39	16° 2	28°40	24°18	14°24	15°33	23°16	10°40	9°11	14°24	n.a.	T 18
W19	5 35 11	24°24'20	7♌41	4°33	7°42	15°43	28°50	24°23	14°22	15°35	23°16	10°32	9° 8	14°31	n.a.	W19
T 20	5 39 8	25°25'28	19°36	6°15	8°46	15°24	28°59	24°28	14°21	15°37	23°16	10°25	9° 5	14°38	n.a.	T 20
F 21	5 43 4	26°26'36	1♍38	7°56	9°50	15° 4	29° 9	24°32	14°20	15°39	23°16	10°20	9° 2	14°44	n.a.	F 21
S 22	5 47 1	27°27'43	13°51	9°37	10°54	14°43	29°20	24°37	14°18	15°41	23°17	10°16	8°58	14°51	n.a.	S 22
S 23	5 50 57	28°28'50	26°18	11°18	11°59	14°22	29°30	24°41	14°17	15°43	23°17	10°D15	8°55	14°58	n.a.	S 23
M24	5 54 54	29°29'56	9♎ 4	12°58	13° 4	14° 1	29°40	24°45	14°15	15°46	23°17	10°16	8°52	15° 4	n.a.	M24
T 25	5 58 50	0♑31'01	22°13	14°37	14° 9	13°39	29°51	24°50	14°13	15°48	23°18	10°17	8°49	15°11	n.a.	T 25
W26	6 2 47	1°32'06	5♏49	16°15	15°15	13°16	0♓ 1	24°54	14°12	15°50	23°18	10°R18	8°46	15°18	n.a.	W26
T 27	6 6 44	2°33'11	19°54	17°52	16°20	12°54	0°12	24°58	14°10	15°52	23°18	10°17	8°43	15°25	n.a.	T 27
F 28	6 10 40	3°34'14	4♐27	19°27	17°26	12°30	0°23	25° 2	14° 8	15°55	23°19	10°15	8°39	15°31	n.a.	F 28
S 29	6 14 37	4°35'17	19°24	21° 0	18°32	12° 7	0°34	25° 6	14° 7	15°57	23°19	10°10	8°36	15°38	n.a.	S 29
S 30	6 18 33	5°36'19	4♑38	22°30	19°39	11°44	0°45	25° 9	14° 5	15°59	23°19	10° 3	8°33	15°45	n.a.	S 30
M31	6 22 30	6♑37'20	19♑57	23♑57	20♏45	11♋20	0♓56	25♎13	14♌ 3	16♑ 1	23♓20	9♉54	8♉30	15♋51	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s34	25s 1	2s38	22s44	1s24	5s 6	2n54	25n21	3n 6	14s12	1s22	6s49	2n20	17n20	0n44	22s47	0n 4	18s31	17s20	15n26	15n 1	27n40		n.a.
S 2	21 44	27 23	3 43	23 6	1 29	5 25	2 57	25 24	3 9	14 10	1 22	6 51	2 20	17 20	0 44	22 47	0 4	18 31	17 19	15 25	15 0	27 39		n.a.
M 3	21 54	27 43	4 32	23 26	1 34	5 44	2 59	25 28	3 11	14 7	1 22	6 53	2 20	17 20	0 44	22 47	0 4	18 31	17 19	15 24	14 59	27 39		n.a.
T 4	22 4	26 3	5 3	23 46	1 38	6 3	3 2	25 31	3 14	14 4	1 22	6 55	2 20	17 20	0 44	22 47	0 4	18 31	17 19	15 23	14 58	27 39		n.a.
W 5	22 13	22 40	5 13	24 4	1 42	6 23	3 4	25 35	3 17	14 1	1 22	6 57	2 20	17 20	0 44	22 47	0 4	18 30	17 18	15 22	14 56	27 39		n.a.
T 6	22 22	17 58	5 4	24 21	1 46	6 42	3 5	25 39	3 19	13 58	1 21	6 59	2 20	17 21	0 44	22 46	0 4	18 30	17 18	15 21	14 55	27 38		n.a.
F 7	22 31	12 27	4 36	24 37	1 49	7 2	3 7	25 43	3 22	13 55	1 21	7 1	2 20	17 21	0 44	22 46	0 4	18 30	17 18	15 20	14 54	27 38		n.a.
S 8	22 39	6 29	3 54	24 51	1 52	7 23	3 9	25 47	3 24	13 52	1 21	7 2	2 21	17 21	0 44	22 46	0 4	18 29	17 17	15 21	14 53	27 38		n.a.
S 9	22 46	0 23	3 1	25 3	1 55	7 43	3 10	25 52	3 27	13 49	1 21	7 4	2 21	17 21	0 44	22 46	0 4	18 29	17 17	15 21	14 52	27 37		n.a.
M10	22 53	5n37	1 59	25 15	1 58	8 3	3 11	25 56	3 30	13 46	1 20	7 6	2 21	17 22	0 44	22 45	0 4	18 29	17 17	15 22	14 51	27 37		n.a.
T 11	23 0	11 16	0 53	25 24	2 0	8 24	3 12	26 0	3 32	13 42	1 20	7 8	2 21	17 22	0 44	22 45	0 4	18 29	17 16	15 22	14 50	27 37		n.a.
W12	23 6	16 23	0n14	25 32	2 2	8 45	3 13	26 5	3 35	13 39	1 20	7 10	2 21	17 22	0 45	22 45	0 4	18 28	17 16	15 22	14 49	27 36		n.a.
T 13	23 11	20 47	1 20	25 39	2 3	9 6	3 13	26 9	3 37	13 36	1 20	7 11	2 21	17 23	0 45	22 45	0 4	18 28	17 15	15 22	14 48	27 36		n.a.
F 14	23 17	24 14	2 21	25 43	2 4	9 27	3 13	26 13	3 40	13 32	1 20	7 13	2 22	17 23	0 45	22 45	0 4	18 27	17 15	15 21	14 47	27 36		n.a.
S 15	23 21	26 35	3 15	25 46	2 5	9 48	3 14	26 18	3 42	13 29	1 19	7 15	2 22	17 24	0 45	22 44	0 4	18 27	17 15	15 19	14 46	27 35		n.a.
S 16	23 26	27 43	4 1	25 47	2 5	10 9	3 14	26 22	3 44	13 25	1 19	7 16	2 22	17 24	0 45	22 44	0 4	18 27	17 14	15 17	14 45	27 35		n.a.
M17	23 29	27 32	4 35	25 47	2 4	10 30	3 14	26 27	3 47	13 22	1 19	7 18	2 22	17 24	0 45	22 44	0 4	18 26	17 14	15 14	14 44	27 35		n.a.
T 18	23 33	26 6	4 58	25 44	2 3	10 51	3 13	26 31	3 49	13 18	1 19	7 20	2 22	17 25	0 45	22 44	0 4	18 26	17 14	15 12	14 43	27 34		n.a.
W19	23 36	23 30	5 8	25 40	2 2	11 12	3 13	26 36	3 51	13 15	1 19	7 21	2 22	17 25	0 45	22 43	0 4	18 26	17 13	15 9	14 42	27 34		n.a.
T 20	23 38	19 54	5 4	25 34	2 0	11 33	3 13	26 40	3 53	13 11	1 18	7 23	2 23	17 26	0 45	22 43	0 4	18 25	17 13	15 7	14 41	27 33		n.a.
F 21	23 40	15 28	4 47	25 26	1 58	11 54	3 12	26 45	3 55	13 7	1 18	7 24	2 23	17 26	0 45	22 43	0 4	18 25	17 12	15 5	14 40	27 33		n.a.
S 22	23 41	10 22	4 17	25 16	1 54	12 15	3 11	26 49	3 57	13 3	1 18	7 26	2 23	17 27	0 45	22 43	0 4	18 24	17 12	15 4	14 39	27 33		n.a.
S 23	23 42	4 46	3 34	25 4	1 50	12 35	3 10	26 53	3 59	12 59	1 18	7 27	2 23	17 27	0 45	22 42	0 4	18 24	17 12	15 4	14 38	27 32		n.a.
M24	23 43	1s11	2 40	24 50	1 46	12 56	3 9	26 57	4 1	12 56	1 18	7 28	2 23	17 28	0 45	22 42	0 4	18 23	17 11	15 4	14 37	27 32		n.a.
T 25	23 43	7 16	1 36	24 34	1 41	13 17	3 8	27 2	4 3	12 52	1 18	7 30	2 24	17 28	0 45	22 42	0 4	18 23	17 11	15 4	14 36	27 31		n.a.
W26	23 42	13 14	0 24	24 17	1 35	13 37	3 7	27 6	4 4	12 48	1 17	7 31	2 24	17 29	0 45	22 42	0 4	18 22	17 11	15 4	14 35	27 31		n.a.
T 27	23 41	18 45	0s51	23 57	1 28	13 57	3 5	27 9	4 6	12 44	1 17	7 32	2 24	17 29	0 45	22 41	0 4	18 22	17 10	15 4	14 34	27 30		n.a.
F 28	23 40	23 20	2 6	23 36	1 20	14 18	3 4	27 13	4 7	12 40	1 17	7 34	2 24	17 30	0 45	22 41	0 4	18 22	17 10	15 4	14 33	27 30		n.a.
S 29	23 38	26 30	3 14	23 14	1 11	14 38	3 2	27 17	4 9	12 36	1 17	7 35	2 24	17 30	0 45	22 41	0 4	18 21	17 10	15 2	14 32	27 29		n.a.
S 30	23 36	27 47	4 9	22 50	1 2	14 57	3 0	27 20	4 10	12 31	1 17	7 36	2 25	17 31	0 45	22 41	0 4	18 21	17 9	15 0	14 31	27 29		n.a.
M31	23s33	26s56	4s47	22s25	0s52	15s17	2n58	27n24	4n11	12s27	1s17	7s37	2n25	17n31	0n45	22s40	0n 4	18s20	17s 9	14n57	14n30	27n28		n.a.

Julian Day Number = 1671352.5, Delta T = 03h20m23s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'33, Lahiri = - 5°50'33 Julian Calendar 1 Dec. 138 BCE == Greg. Calendar 28 Nov. 138 BCE

The year -137 astronomical counting style corresponds to year 138 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

JANUARY 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 26 26	7♑38'19	5♒12	25♑20	21♏52	10°R56	1♓ 8	25♎17	14°R 1	16♑ 4	23♓20	9°R45	8♉27	15♋58	n.a.	T 1
W 2	6 30 23	8°39'17	20°10	26°39	22°59	10♋32	1°19	25°20	13♌59	16° 6	23°21	9♉36	8°24	16° 5	n.a.	W 2
T 3	6 34 20	9°40'14	4♓44	27°52	24° 6	10° 8	1°30	25°24	13°57	16° 8	23°21	9°30	8°20	16°12	n.a.	T 3
F 4	6 38 16	10°41'09	18°50	29° 0	25°13	9°44	1°42	25°27	13°55	16°10	23°22	9°25	8°17	16°18	n.a.	F 4
S 5	6 42 13	11°42'02	2♈28	0♒ 0	26°21	9°20	1°54	25°30	13°53	16°13	23°22	9°23	8°14	16°25	n.a.	S 5
S 6	6 46 9	12°42'54	15°38	0°53	27°28	8°56	2° 5	25°34	13°51	16°15	23°23	9°D23	8°11	16°32	n.a.	S 6
M 7	6 50 6	13°43'45	28°26	1°38	28°36	8°32	2°17	25°37	13°49	16°17	23°24	9°23	8° 8	16°38	n.a.	M 7
T 8	6 54 2	14°44'33	10♉54	2°14	29°44	8° 8	2°29	25°40	13°47	16°19	23°24	9°R23	8° 4	16°45	n.a.	T 8
W 9	6 57 59	15°45'21	23° 7	2°40	0♐52	7°45	2°41	25°43	13°44	16°22	23°25	9°22	8° 1	16°52	n.a.	W 9
T 10	7 1 55	16°46'06	5♊11	2°56	2° 0	7°22	2°53	25°45	13°42	16°24	23°25	9°19	7°58	16°59	n.a.	T 10
F 11	7 5 52	17°46'50	17° 8	3°R 1	3° 9	6°59	3° 5	25°48	13°40	16°26	23°26	9°13	7°55	17° 5	n.a.	F 11
S 12	7 9 49	18°47'32	29° 1	2°56	4°17	6°37	3°18	25°51	13°38	16°29	23°27	9° 4	7°52	17°12	n.a.	S 12
S 13	7 13 45	19°48'13	10♋53	2°39	5°26	6°15	3°30	25°53	13°35	16°31	23°27	8°53	7°49	17°19	n.a.	S 13
M14	7 17 42	20°48'53	22°45	2°13	6°35	5°53	3°42	25°56	13°33	16°33	23°28	8°39	7°45	17°25	n.a.	M14
T 15	7 21 38	21°49'30	4♌38	1°36	7°44	5°32	3°55	25°58	13°31	16°35	23°29	8°25	7°42	17°32	n.a.	T 15
W16	7 25 35	22°50'06	16°35	0°51	8°53	5°12	4° 8	26° 0	13°28	16°38	23°30	8°12	7°39	17°39	n.a.	W16
T 17	7 29 31	23°50'41	28°36	29♑58	10° 2	4°52	4°20	26° 3	13°26	16°40	23°30	7°59	7°36	17°46	n.a.	T 17
F 18	7 33 28	24°51'14	10♍43	28°58	11°11	4°32	4°33	26° 5	13°23	16°42	23°31	7°49	7°33	17°52	n.a.	F 18
S 19	7 37 24	25°51'46	22°58	27°54	12°21	4°13	4°46	26° 7	13°21	16°44	23°32	7°42	7°30	17°59	n.a.	S 19
S 20	7 41 21	26°52'16	5♎26	26°48	13°30	3°55	4°58	26° 8	13°19	16°47	23°33	7°38	7°26	18° 6	n.a.	S 20
M21	7 45 18	27°52'44	18° 9	25°40	14°40	3°37	5°11	26°10	13°16	16°49	23°34	7°37	7°23	18°12	n.a.	M21
T 22	7 49 14	28°53'11	1♏12	24°33	15°50	3°20	5°24	26°12	13°14	16°51	23°35	7°36	7°20	18°19	n.a.	T 22
W23	7 53 11	29°53'37	14°38	23°28	16°59	3° 4	5°37	26°13	13°11	16°53	23°36	7°36	7°17	18°26	n.a.	W23
T 24	7 57 7	0♒54'02	28°31	22°27	18° 9	2°48	5°51	26°15	13° 9	16°56	23°36	7°35	7°14	18°33	n.a.	T 24
F 25	8 1 4	1°54'25	12♐51	21°31	19°19	2°34	6° 4	26°16	13° 6	16°58	23°37	7°32	7°10	18°39	n.a.	F 25
S 26	8 5 0	2°54'46	27°36	20°40	20°29	2°19	6°17	26°18	13° 3	17° 0	23°38	7°26	7° 7	18°46	n.a.	S 26
S 27	8 8 57	3°55'06	12♑42	19°56	21°40	2° 6	6°30	26°19	13° 1	17° 2	23°39	7°17	7° 4	18°53	n.a.	S 27
M28	8 12 53	4°55'24	27°59	19°19	22°50	1°54	6°44	26°20	12°58	17° 4	23°40	7° 6	7° 1	19° 0	n.a.	M28
T 29	8 16 50	5°55'40	13♒16	18°49	24° 0	1°42	6°57	26°21	12°56	17° 7	23°41	6°54	6°58	19° 6	n.a.	T 29
W30	8 20 47	6°55'55	28°23	18°26	25°10	1°31	7°10	26°22	12°53	17° 9	23°42	6°43	6°55	19°13	n.a.	W30
T 31	8 24 43	7♒56'07	13♓ 8	18♑11	26♐21	1♋20	7♓24	26♎22	12♌50	17♑11	23♓43	6♉34	6♉51	19♋20	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23 s29	24 s 5	5 s 4	21 s59	0 s40	15 s36	2n56	27n27	4n12	12 s23	1 s16	7 s39	2n25	17n32	0n45	22 s40	0n 4	18 s20	17 s 8	14n54	14n29	27n28			n.a.
W 2	23 26	19 39	4 59	21 32	0 28	15 55	2 54	27 30	4 13	12 19	1 16	7 40	2 25	17 33	0 45	22 40	0 4	18 19	17 8	14 51	14 28	27 27			n.a.
T 3	23 21	14 9	4 36	21 4	0 15	16 14	2 52	27 33	4 14	12 15	1 16	7 41	2 25	17 33	0 45	22 40	0 4	18 18	17 8	14 49	14 27	27 27			n.a.
F 4	23 17	8 4	3 56	20 37	0 1	16 33	2 50	27 35	4 15	12 10	1 16	7 42	2 26	17 34	0 45	22 39	0 4	18 18	17 7	14 48	14 26	27 26			n.a.
S 5	23 12	1 49	3 4	20 10	0n14	16 51	2 47	27 38	4 16	12 6	1 16	7 43	2 26	17 34	0 45	22 39	0 4	18 17	17 7	14 47	14 25	27 26			n.a.
S 6	23 6	4n20	2 3	19 43	0 29	17 9	2 45	27 40	4 16	12 1	1 16	7 44	2 26	17 35	0 45	22 39	0 4	18 17	17 7	14 47	14 24	27 25			n.a.
M 7	23 0	10 8	0 58	19 17	0 46	17 26	2 42	27 42	4 17	11 57	1 15	7 45	2 26	17 36	0 45	22 39	0 4	18 16	17 6	14 47	14 23	27 25			n.a.
T 8	22 53	15 24	0n 8	18 53	1 2	17 43	2 40	27 44	4 17	11 53	1 15	7 46	2 26	17 36	0 45	22 38	0 4	18 16	17 6	14 47	14 22	27 24			n.a.
W 9	22 46	19 56	1 12	18 30	1 20	18 0	2 37	27 46	4 17	11 48	1 15	7 46	2 27	17 37	0 45	22 38	0 4	18 15	17 6	14 47	14 21	27 24			n.a.
T 10	22 39	23 35	2 13	18 9	1 37	18 17	2 34	27 48	4 18	11 43	1 15	7 47	2 27	17 38	0 45	22 38	0 4	18 15	17 5	14 46	14 20	27 23			n.a.
F 11	22 31	26 10	3 6	17 51	1 54	18 33	2 32	27 49	4 18	11 39	1 15	7 48	2 27	17 38	0 46	22 37	0 4	18 14	17 5	14 44	14 18	27 23			n.a.
S 12	22 23	27 34	3 51	17 36	2 12	18 49	2 29	27 50	4 18	11 34	1 15	7 49	2 27	17 39	0 46	22 37	0 4	18 13	17 5	14 41	14 17	27 22			n.a.
S 13	22 14	27 41	4 26	17 23	2 28	19 4	2 26	27 51	4 18	11 30	1 15	7 49	2 28	17 40	0 46	22 37	0 4	18 13	17 4	14 37	14 16	27 21			n.a.
M14	22 5	26 31	4 49	17 14	2 44	19 19	2 23	27 52	4 17	11 25	1 14	7 50	2 28	17 40	0 46	22 37	0 4	18 12	17 4	14 33	14 15	27 21			n.a.
T 15	21 55	24 10	5 0	17 8	2 59	19 33	2 19	27 53	4 17	11 20	1 14	7 51	2 28	17 41	0 46	22 36	0 4	18 12	17 4	14 28	14 14	27 20			n.a.
W16	21 45	20 45	4 57	17 5	3 12	19 47	2 16	27 53	4 17	11 15	1 14	7 51	2 28	17 42	0 46	22 36	0 4	18 11	17 3	14 24	14 13	27 20			n.a.
T 17	21 35	16 29	4 41	17 5	3 24	20 1	2 13	27 53	4 16	11 11	1 14	7 52	2 28	17 43	0 46	22 36	0 4	18 11	17 3	14 20	14 12	27 19			n.a.
F 18	21 24	11 32	4 13	17 7	3 33	20 14	2 10	27 53	4 15	11 6	1 14	7 53	2 29	17 43	0 46	22 36	0 4	18 10	17 3	14 17	14 11	27 18			n.a.
S 19	21 13	6 4	3 32	17 13	3 41	20 27	2 7	27 53	4 15	11 1	1 14	7 53	2 29	17 44	0 46	22 35	0 4	18 9	17 2	14 14	14 10	27 18			n.a.
S 20	21 1	0 17	2 41	17 21	3 46	20 39	2 3	27 53	4 14	10 56	1 14	7 54	2 29	17 45	0 46	22 35	0 4	18 9	17 2	14 13	14 9	27 17			n.a.
M21	20 49	5 s39	1 41	17 30	3 49	20 50	2 0	27 53	4 13	10 51	1 14	7 54	2 29	17 45	0 46	22 35	0 4	18 8	17 2	14 12	14 8	27 16			n.a.
T 22	20 37	11 30	0 34	17 42	3 49	21 1	1 56	27 52	4 12	10 46	1 14	7 54	2 30	17 46	0 46	22 35	0 4	18 7	17 1	14 12	14 7	27 16			n.a.
W23	20 24	17 0	0 s37	17 54	3 48	21 12	1 53	27 52	4 11	10 41	1 13	7 55	2 30	17 47	0 46	22 34	0 4	18 7	17 1	14 12	14 6	27 15			n.a.
T 24	20 11	21 49	1 48	18 8	3 44	21 22	1 49	27 51	4 10	10 36	1 13	7 55	2 30	17 48	0 46	22 34	0 4	18 6	17 1	14 12	14 5	27 14			n.a.
F 25	19 58	25 29	2 54	18 22	3 39	21 31	1 46	27 50	4 9	10 31	1 13	7 55	2 30	17 48	0 46	22 34	0 4	18 6	17 1	14 11	14 4	27 14			n.a.
S 26	19 44	27 33	3 51	18 37	3 31	21 40	1 42	27 50	4 8	10 26	1 13	7 56	2 31	17 49	0 46	22 33	0 4	18 5	17 0	14 9	14 3	27 13			n.a.
S 27	19 30	27 38	4 33	18 52	3 23	21 49	1 39	27 49	4 7	10 21	1 13	7 56	2 31	17 50	0 46	22 33	0 4	18 4	17 0	14 6	14 2	27 12			n.a.
M28	19 15	25 38	4 56	19 7	3 13	21 56	1 35	27 47	4 5	10 16	1 13	7 56	2 31	17 51	0 46	22 33	0 4	18 4	17 0	14 2	14 1	27 12			n.a.
T 29	19 0	21 47	4 58	19 22	3 2	22 3	1 31	27 46	4 4	10 11	1 13	7 56	2 31	17 51	0 46	22 33	0 4	18 3	16 59	13 58	14 0	27 11			n.a.
W30	18 45	16 31	4 39	19 37	2 51	22 10	1 28	27 45	4 3	10 6	1 13	7 56	2 31	17 52	0 46	22 32	0 4	18 2	16 59	13 55	13 59	27 10			n.a.
T 31	18 s30	10 s25	4 s 2	19 s51	2n38	22 s16	1n24	27n44	4n 1	10 s 1	1 s13	7 s56	2n32	17n53	0n46	22 s32	0n 4	18 s 2	16 s59	13n52	13n58	27n 9			n.a.

Julian Day Number = 1671383.5, Delta T = 03h20m22s
Ecliptic obliquity = 23°42'49, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'29, Lahiri = - 5°50'28 Julian Calendar 1 Jan. 137 BCE == Greg. Calendar 29 Dec. 138 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

FEBRUARY 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 28 40	8♒56'16	27♓26	18°R 2	27♐31	1°R11	7♓38	26♎23	12°R48	17♑13	23♓44	6°R27	6♉48	19♋26	n.a.	F 1
S 2	8 32 36	9°56'24	11♈13	18°D 0	28°42	1♋ 2	7°51	26°24	12♏45	17°15	23°45	6♉23	6°45	19°33	n.a.	S 2
S 3	8 36 33	10°56'30	24°31	18♑ 4	29°53	0°54	8° 5	26°24	12°43	17°17	23°47	6°21	6°42	19°40	n.a.	S 3
M 4	8 40 29	11°56'33	7♉23	18°14	1♑ 3	0°47	8°18	26°24	12°40	17°20	23°48	6°21	6°39	19°47	n.a.	M 4
T 5	8 44 26	12°56'34	19°52	18°31	2°14	0°41	8°32	26°25	12°37	17°22	23°49	6°21	6°36	19°53	n.a.	T 5
W 6	8 48 22	13°56'33	2♊ 4	18°52	3°25	0°36	8°46	26°25	12°35	17°24	23°50	6°20	6°32	20° 0	n.a.	W 6
T 7	8 52 19	14°56'29	14° 5	19°19	4°36	0°31	9° 0	26°R25	12°32	17°26	23°51	6°17	6°29	20° 7	n.a.	T 7
F 8	8 56 16	15°56'24	25°59	19°50	5°47	0°27	9°14	26°25	12°30	17°28	23°52	6°11	6°26	20°13	n.a.	F 8
S 9	9 0 12	16°56'16	7♋49	20°26	6°58	0°24	9°28	26°25	12°27	17°30	23°53	6° 2	6°23	20°20	n.a.	S 9
S 10	9 4 9	17°56'06	19°40	21° 6	8° 9	0°22	9°42	26°25	12°24	17°32	23°54	5°51	6°20	20°27	n.a.	S 10
M11	9 8 5	18°55'53	1♌33	21°50	9°20	0°20	9°56	26°24	12°22	17°34	23°56	5°38	6°16	20°34	n.a.	M11
T 12	9 12 2	19°55'39	13°31	22°37	10°31	0°19	10°10	26°24	12°19	17°36	23°57	5°24	6°13	20°40	n.a.	T 12
W13	9 15 58	20°55'22	25°35	23°28	11°42	0°D19	10°24	26°23	12°17	17°38	23°58	5°10	6°10	20°47	n.a.	W13
T 14	9 19 55	21°55'03	7♍45	24°22	12°54	0°20	10°38	26°23	12°14	17°40	23°59	4°58	6° 7	20°54	n.a.	T 14
F 15	9 23 51	22°54'42	20° 3	25°18	14° 5	0°21	10°52	26°22	12°11	17°42	24° 0	4°48	6° 4	21° 0	n.a.	F 15
S 16	9 27 48	23°54'19	2♎30	26°18	15°16	0°23	11° 6	26°21	12° 9	17°44	24° 2	4°41	6° 1	21° 7	n.a.	S 16
S 17	9 31 45	24°53'54	15° 8	27°20	16°28	0°26	11°20	26°20	12° 6	17°46	24° 3	4°37	5°57	21°14	n.a.	S 17
M18	9 35 41	25°53'28	27°59	28°25	17°39	0°30	11°34	26°19	12° 4	17°48	24° 4	4°35	5°54	21°21	n.a.	M18
T 19	9 39 38	26°52'59	11♏ 4	29°32	18°50	0°34	11°48	26°18	12° 1	17°50	24° 5	4°D35	5°51	21°27	n.a.	T 19
W20	9 43 34	27°52'29	24°29	0♒42	20° 2	0°39	12° 3	26°17	11°59	17°51	24° 7	4°R36	5°48	21°34	n.a.	W20
T 21	9 47 31	28°51'57	8♐13	1°53	21°14	0°44	12°17	26°15	11°56	17°53	24° 8	4°35	5°45	21°41	n.a.	T 21
F 22	9 51 27	29°51'23	22°20	3° 7	22°25	0°50	12°31	26°14	11°54	17°55	24° 9	4°33	5°42	21°47	n.a.	F 22
S 23	9 55 24	0♓50'47	6♑48	4°22	23°37	0°57	12°45	26°12	11°51	17°57	24°11	4°29	5°38	21°54	n.a.	S 23
S 24	9 59 20	1°50'09	21°34	5°40	24°48	1° 4	13° 0	26°11	11°49	17°59	24°12	4°22	5°35	22° 1	n.a.	S 24
M25	10 3 17	2°49'30	6♒32	6°59	26° 0	1°12	13°14	26° 9	11°47	18° 0	24°13	4°14	5°32	22° 8	n.a.	M25
T 26	10 7 14	3°48'48	21°33	8°20	27°12	1°21	13°28	26° 7	11°44	18° 2	24°15	4° 4	5°29	22°14	n.a.	T 26
W27	10 11 10	4°48'04	6♓28	9°42	28°24	1°30	13°43	26° 5	11°42	18° 4	24°16	3°55	5°26	22°21	n.a.	W27
T 28	10 15 7	5°47'18	21° 8	11° 7	29°35	1°40	13°57	26° 3	11°40	18° 6	24°17	3°47	5°22	22°28	n.a.	T 28
F 29	10 19 3	6♓46'30	5♈26	12♒33	0♒47	1♋50	14♓12	26♎ 1	11♌37	18♑ 7	24♓19	3♉42	5♉19	22♋35	n.a.	F 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s14	3s56	3s10	20s 4	2n26	22s21	1n20	27n42	4n 0	9s56	1s13	7s56	2n32	17n54	0n46	22s32	0n 4	18s 1	16s59	13n49	13n56	27n 9		n.a.
S 2	17 58	2n31	2 9	20 17	2 13	22 26	1 17	27 41	3 58	9 50	1 12	7 56	2 32	17 54	0 46	22 32	0 4	18 0	16 58	13 48	13 55	27 8		n.a.
S 3	17 41	8 39	1 2	20 30	2 0	22 30	1 13	27 39	3 57	9 45	1 12	7 56	2 32	17 55	0 46	22 31	0 4	18 0	16 58	13 48	13 54	27 7		n.a.
M 4	17 24	14 13	0n 5	20 41	1 47	22 33	1 9	27 38	3 55	9 40	1 12	7 56	2 33	17 56	0 46	22 31	0 4	17 59	16 58	13 47	13 53	27 6		n.a.
T 5	17 7	19 3	1 11	20 52	1 34	22 36	1 5	27 36	3 54	9 35	1 12	7 56	2 33	17 57	0 46	22 31	0 4	17 58	16 58	13 47	13 52	27 6		n.a.
W 6	16 50	22 58	2 11	21 2	1 21	22 39	1 2	27 35	3 52	9 29	1 12	7 56	2 33	17 57	0 46	22 31	0 4	17 58	16 57	13 47	13 51	27 5		n.a.
T 7	16 32	25 49	3 5	21 11	1 8	22 40	0 58	27 33	3 50	9 24	1 12	7 56	2 33	17 58	0 46	22 30	0 4	17 57	16 57	13 46	13 50	27 4		n.a.
F 8	16 14	27 29	3 50	21 18	0 56	22 41	0 54	27 32	3 49	9 19	1 12	7 55	2 34	17 59	0 46	22 30	0 4	17 56	16 57	13 44	13 49	27 3		n.a.
S 9	15 56	27 53	4 25	21 25	0 44	22 41	0 50	27 30	3 47	9 13	1 12	7 55	2 34	18 0	0 46	22 30	0 4	17 56	16 57	13 41	13 48	27 2		n.a.
S 10	15 38	27 0	4 48	21 31	0 32	22 41	0 47	27 28	3 45	9 8	1 12	7 55	2 34	18 0	0 46	22 29	0 4	17 55	16 57	13 37	13 47	27 2		n.a.
M11	15 19	24 54	4 59	21 35	0 20	22 40	0 43	27 26	3 44	9 2	1 12	7 55	2 34	18 1	0 46	22 29	0 4	17 54	16 56	13 33	13 46	27 1		n.a.
T 12	15 0	21 41	4 57	21 39	0 9	22 38	0 39	27 25	3 42	8 57	1 12	7 54	2 34	18 2	0 46	22 29	0 4	17 54	16 56	13 28	13 45	27 0		n.a.
W13	14 41	17 33	4 42	21 41	0s 2	22 36	0 36	27 23	3 40	8 52	1 12	7 54	2 35	18 3	0 46	22 29	0 4	17 53	16 56	13 24	13 44	26 59		n.a.
T 14	14 22	12 40	4 13	21 42	0 12	22 33	0 32	27 21	3 38	8 46	1 12	7 53	2 35	18 3	0 46	22 28	0 3	17 52	16 56	13 20	13 43	26 58		n.a.
F 15	14 2	7 14	3 33	21 41	0 23	22 29	0 28	27 19	3 37	8 41	1 12	7 53	2 35	18 4	0 46	22 28	0 3	17 52	16 56	13 16	13 42	26 57		n.a.
S 16	13 42	1 27	2 41	21 40	0 32	22 25	0 25	27 18	3 35	8 35	1 11	7 52	2 35	18 5	0 46	22 28	0 3	17 51	16 55	13 14	13 41	26 57		n.a.
S 17	13 22	4s28	1 41	21 37	0 42	22 20	0 21	27 16	3 33	8 30	1 11	7 52	2 36	18 6	0 46	22 28	0 3	17 50	16 55	13 12	13 40	26 56		n.a.
M18	13 2	10 20	0 35	21 33	0 51	22 15	0 18	27 14	3 31	8 24	1 11	7 51	2 36	18 6	0 46	22 27	0 3	17 50	16 55	13 12	13 38	26 55		n.a.
T 19	12 42	15 52	0s34	21 27	0 59	22 8	0 14	27 12	3 30	8 19	1 11	7 51	2 36	18 7	0 46	22 27	0 3	17 49	16 55	13 12	13 37	26 54		n.a.
W20	12 21	20 47	1 44	21 20	1 8	22 2	0 11	27 11	3 28	8 13	1 11	7 50	2 36	18 8	0 46	22 27	0 3	17 48	16 55	13 12	13 36	26 53		n.a.
T 21	12 0	24 42	2 49	21 11	1 15	21 54	0 7	27 9	3 26	8 8	1 11	7 49	2 36	18 8	0 46	22 27	0 3	17 48	16 54	13 12	13 35	26 52		n.a.
F 22	11 39	27 14	3 45	21 1	1 23	21 46	0 4	27 7	3 24	8 2	1 11	7 49	2 37	18 9	0 46	22 27	0 3	17 47	16 54	13 11	13 34	26 51		n.a.
S 23	11 18	28 1	4 29	20 50	1 29	21 37	0 0	27 5	3 23	7 56	1 11	7 48	2 37	18 10	0 46	22 26	0 3	17 46	16 54	13 10	13 33	26 50		n.a.
S 24	10 57	26 50	4 56	20 37	1 36	21 28	0s 3	27 3	3 21	7 51	1 11	7 47	2 37	18 10	0 46	22 26	0 3	17 46	16 54	13 7	13 32	26 49		n.a.
M25	10 35	23 44	5 3	20 23	1 42	21 18	0 6	27 1	3 19	7 45	1 11	7 46	2 37	18 11	0 46	22 26	0 3	17 45	16 54	13 4	13 31	26 49		n.a.
T 26	10 13	19 2	4 50	20 7	1 48	21 7	0 10	27 0	3 17	7 40	1 11	7 45	2 37	18 12	0 46	22 26	0 3	17 44	16 54	13 1	13 30	26 48		n.a.
W27	9 52	13 12	4 16	19 50	1 53	20 56	0 13	26 58	3 16	7 34	1 11	7 45	2 38	18 12	0 46	22 25	0 3	17 44	16 54	12 58	13 29	26 47		n.a.
T 28	9 30	6 43	3 27	19 31	1 57	20 44	0 16	26 56	3 14	7 28	1 11	7 44	2 38	18 13	0 46	22 25	0 3	17 43	16 54	12 55	13 28	26 46		n.a.
F 29	9s 8	0s 2	2s25	19s11	2s 2	20s32	0s19	26n54	3n12	7s23	1s11	7s43	2n38	18n14	0n46	22s25	0n 3	17s42	16s53	12n54	13n27	26n45		n.a.

Julian Day Number = 1671414.5, Delta T = 03h20m21s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'25, Lahiri = - 5°50'24 Julian Calendar 1 Feb. 137 BCE == Greg. Calendar 29 Jan. 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

MARCH 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 23 0	7♓45'40	19♈16	14♒ 0	1♒59	2♋ 1	14♓26	25°R59	11°R35	18♑ 9	24♓20	3°R39	5♉16	22♋41	n.a.	S 1
S 2	10 26 56	8°44'47	2♉40	15°29	3°11	2°13	14°40	25♎57	11♌33	18°10	24°21	3°D38	5°13	22°48	n.a.	S 2
M 3	10 30 53	9°43'52	15°37	17° 0	4°23	2°25	14°55	25°55	11°30	18°12	24°23	3♉38	5°10	22°55	n.a.	M 3
T 4	10 34 49	10°42'54	28°11	18°32	5°35	2°38	15° 9	25°52	11°28	18°14	24°24	3°39	5° 7	23° 1	n.a.	T 4
W 5	10 38 46	11°41'54	10♊28	20° 6	6°47	2°51	15°24	25°50	11°26	18°15	24°25	3°R40	5° 3	23° 8	n.a.	W 5
T 6	10 42 42	12°40'52	22°31	21°41	7°59	3° 4	15°38	25°47	11°24	18°17	24°27	3°39	5° 0	23°15	n.a.	T 6
F 7	10 46 39	13°39'47	4♋25	23°17	9°11	3°18	15°52	25°45	11°22	18°18	24°28	3°37	4°57	23°22	n.a.	F 7
S 8	10 50 36	14°38'40	16°17	24°55	10°23	3°33	16° 7	25°42	11°20	18°20	24°30	3°32	4°54	23°28	n.a.	S 8
S 9	10 54 32	15°37'31	28° 9	26°35	11°35	3°48	16°21	25°39	11°18	18°21	24°31	3°26	4°51	23°35	n.a.	S 9
M10	10 58 29	16°36'19	10♌ 5	28°16	12°47	4° 4	16°36	25°36	11°16	18°23	24°32	3°18	4°48	23°42	n.a.	M10
T 11	11 2 25	17°35'05	22° 8	29°59	13°59	4°20	16°50	25°33	11°14	18°24	24°34	3° 9	4°44	23°48	n.a.	T 11
W12	11 6 22	18°33'49	4♍20	1♓43	15°11	4°36	17° 5	25°30	11°12	18°25	24°35	3° 1	4°41	23°55	n.a.	W12
T 13	11 10 18	19°32'30	16°42	3°29	16°23	4°53	17°19	25°27	11°10	18°27	24°37	2°53	4°38	24° 2	n.a.	T 13
F 14	11 14 15	20°31'10	29°15	5°16	17°35	5°10	17°33	25°24	11° 8	18°28	24°38	2°47	4°35	24° 9	n.a.	F 14
S 15	11 18 11	21°29'47	12♎ 0	7° 4	18°47	5°28	17°48	25°20	11° 6	18°29	24°39	2°43	4°32	24°15	n.a.	S 15
S 16	11 22 8	22°28'23	24°56	8°55	19°59	5°46	18° 2	25°17	11° 5	18°30	24°41	2°41	4°28	24°22	n.a.	S 16
M17	11 26 5	23°26'57	8♏ 4	10°47	21°12	6° 4	18°17	25°14	11° 3	18°32	24°42	2°D41	4°25	24°29	n.a.	M17
T 18	11 30 1	24°25'29	21°25	12°40	22°24	6°23	18°31	25°10	11° 1	18°33	24°44	2°42	4°22	24°36	n.a.	T 18
W19	11 33 58	25°23'59	4♐59	14°35	23°36	6°43	18°45	25° 7	11° 0	18°34	24°45	2°44	4°19	24°42	n.a.	W19
T 20	11 37 54	26°22'27	18°47	16°32	24°48	7° 2	19° 0	25° 3	10°58	18°35	24°46	2°45	4°16	24°49	n.a.	T 20
F 21	11 41 51	27°20'54	2♑50	18°30	26° 1	7°22	19°14	25° 0	10°56	18°36	24°48	2°R45	4°13	24°56	n.a.	F 21
S 22	11 45 47	28°19'20	17° 5	20°29	27°13	7°42	19°28	24°56	10°55	18°37	24°49	2°44	4° 9	25° 2	n.a.	S 22
S 23	11 49 44	29°17'43	1♒32	22°30	28°25	8° 3	19°43	24°52	10°53	18°38	24°51	2°41	4° 6	25° 9	n.a.	S 23
M24	11 53 40	0♈16'05	16° 5	24°33	29°38	8°24	19°57	24°48	10°52	18°39	24°52	2°37	4° 3	25°16	n.a.	M24
T 25	11 57 37	1°14'25	0♓40	26°36	0♓50	8°46	20°11	24°44	10°51	18°40	24°54	2°32	4° 0	25°23	n.a.	T 25
W26	12 1 34	2°12'44	15°10	28°41	2° 2	9° 7	20°26	24°41	10°49	18°41	24°55	2°28	3°57	25°29	n.a.	W26
T 27	12 5 30	3°11'00	29°29	0♈47	3°15	9°29	20°40	24°37	10°48	18°42	24°56	2°24	3°53	25°36	n.a.	T 27
F 28	12 9 27	4° 9'15	13♈31	2°55	4°27	9°52	20°54	24°33	10°47	18°43	24°58	2°22	3°50	25°43	n.a.	F 28
S 29	12 13 23	5° 7'27	27°13	5° 3	5°40	10°14	21° 8	24°29	10°45	18°44	24°59	2°D20	3°47	25°49	n.a.	S 29
S 30	12 17 20	6° 5'38	10♉32	7°11	6°52	10°37	21°23	24°24	10°44	18°45	25° 1	2°20	3°44	25°56	n.a.	S 30
M31	12 21 16	7♈ 3'47	23♉30	9♈20	8♓ 4	11♋ 1	21♓37	24♎20	10♌43	18♑46	25♓ 2	2♉22	3♉41	26♋ 3	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s45	6n27	1s16	18s49	2s 6	20s19	0s22	26n52	3n10	7s17	1s11	7s42	2n38	18n14	0n46	22s25	0n 3	17s42	16s53	12n52	13n26	26n44		n.a.
S 2	8 23	12 27	0 5	18 26	2 9	20 5	0 26	26 50	3 9	7 12	1 11	7 41	2 38	18 15	0 46	22 25	0 3	17 41	16 53	12 52	13 25	26 43		n.a.
M 3	8 1	17 43	1n 4	18 1	2 12	19 51	0 29	26 48	3 7	7 6	1 11	7 40	2 39	18 16	0 46	22 24	0 3	17 40	16 53	12 52	13 24	26 42		n.a.
T 4	7 38	22 4	2 8	17 34	2 14	19 36	0 32	26 46	3 5	7 0	1 11	7 39	2 39	18 16	0 46	22 24	0 3	17 40	16 53	12 53	13 22	26 41		n.a.
W 5	7 15	25 19	3 4	17 6	2 16	19 21	0 34	26 44	3 4	6 55	1 11	7 38	2 39	18 17	0 46	22 24	0 3	17 39	16 53	12 53	13 21	26 40		n.a.
T 6	6 53	27 21	3 52	16 36	2 18	19 5	0 37	26 42	3 2	6 49	1 11	7 36	2 39	18 17	0 46	22 24	0 3	17 39	16 53	12 53	13 20	26 39		n.a.
F 7	6 30	28 7	4 28	16 5	2 19	18 49	0 40	26 40	3 0	6 43	1 11	7 35	2 39	18 18	0 46	22 24	0 3	17 38	16 53	12 52	13 19	26 38		n.a.
S 8	6 7	27 34	4 53	15 33	2 19	18 32	0 43	26 38	2 59	6 38	1 11	7 34	2 39	18 18	0 46	22 23	0 3	17 37	16 53	12 50	13 18	26 37		n.a.
S 9	5 44	25 45	5 6	14 58	2 19	18 14	0 46	26 36	2 57	6 32	1 11	7 33	2 40	18 19	0 46	22 23	0 3	17 37	16 53	12 48	13 17	26 36		n.a.
M10	5 21	22 48	5 5	14 22	2 19	17 56	0 48	26 34	2 55	6 26	1 11	7 32	2 40	18 20	0 46	22 23	0 3	17 36	16 53	12 45	13 16	26 35		n.a.
T 11	4 58	18 52	4 51	13 45	2 18	17 38	0 51	26 32	2 54	6 21	1 11	7 31	2 40	18 20	0 46	22 23	0 3	17 35	16 52	12 42	13 15	26 34		n.a.
W12	4 34	14 6	4 23	13 6	2 16	17 19	0 53	26 30	2 52	6 15	1 11	7 29	2 40	18 21	0 46	22 23	0 3	17 35	16 52	12 39	13 14	26 33		n.a.
T 13	4 11	8 43	3 43	12 26	2 14	17 0	0 56	26 28	2 50	6 9	1 11	7 28	2 40	18 21	0 46	22 22	0 3	17 34	16 52	12 37	13 13	26 32		n.a.
F 14	3 48	2 54	2 51	11 43	2 12	16 40	0 58	26 25	2 49	6 3	1 11	7 27	2 40	18 22	0 45	22 22	0 3	17 34	16 52	12 35	13 12	26 30		n.a.
S 15	3 25	3s 7	1 50	11 0	2 9	16 19	1 0	26 23	2 47	5 58	1 11	7 25	2 41	18 22	0 45	22 22	0 3	17 33	16 52	12 33	13 11	26 29		n.a.
S 16	3 1	9 7	0 42	10 15	2 5	15 58	1 3	26 21	2 46	5 52	1 11	7 24	2 41	18 23	0 45	22 22	0 3	17 32	16 52	12 33	13 9	26 28		n.a.
M17	2 38	14 49	0s29	9 28	2 1	15 37	1 5	26 18	2 44	5 46	1 11	7 23	2 41	18 23	0 45	22 22	0 3	17 32	16 52	12 33	13 8	26 27		n.a.
T 18	2 14	19 56	1 40	8 40	1 56	15 16	1 7	26 16	2 43	5 41	1 11	7 21	2 41	18 23	0 45	22 22	0 3	17 31	16 52	12 33	13 7	26 26		n.a.
W19	1 51	24 6	2 46	7 50	1 51	14 53	1 9	26 13	2 41	5 35	1 11	7 20	2 41	18 24	0 45	22 22	0 3	17 31	16 52	12 34	13 6	26 25		n.a.
T 20	1 27	26 58	3 44	6 59	1 45	14 31	1 11	26 11	2 40	5 29	1 11	7 18	2 41	18 24	0 45	22 21	0 3	17 30	16 52	12 34	13 5	26 24		n.a.
F 21	1 4	28 11	4 30	6 7	1 39	14 8	1 13	26 8	2 38	5 24	1 11	7 17	2 41	18 25	0 45	22 21	0 3	17 30	16 52	12 34	13 4	26 23		n.a.
S 22	0 40	27 34	5 0	5 13	1 32	13 45	1 15	26 6	2 37	5 18	1 11	7 16	2 41	18 25	0 45	22 21	0 3	17 29	16 52	12 33	13 3	26 22		n.a.
S 23	0 17	25 6	5 11	4 18	1 25	13 21	1 17	26 3	2 35	5 12	1 11	7 14	2 42	18 25	0 45	22 21	0 3	17 28	16 52	12 33	13 2	26 21		n.a.
M24	0n 6	21 0	5 3	3 22	1 17	12 57	1 18	26 0	2 34	5 7	1 11	7 13	2 42	18 26	0 45	22 21	0 3	17 28	16 52	12 31	13 1	26 19		n.a.
T 25	0 30	15 38	4 35	2 25	1 9	12 33	1 20	25 57	2 32	5 1	1 11	7 11	2 42	18 26	0 45	22 21	0 3	17 27	16 52	12 30	13 0	26 18		n.a.
W26	0 53	9 26	3 49	1 27	1 0	12 8	1 21	25 54	2 31	4 55	1 11	7 10	2 42	18 27	0 45	22 21	0 3	17 27	16 52	12 28	12 59	26 17		n.a.
T 27	1 17	2 48	2 50	0 28	0 51	11 43	1 23	25 51	2 29	4 50	1 11	7 8	2 42	18 27	0 45	22 20	0 3	17 26	16 52	12 27	12 58	26 16		n.a.
F 28	1 40	3n51	1 41	0n32	0 42	11 18	1 24	25 48	2 28	4 44	1 11	7 6	2 42	18 27	0 45	22 20	0 3	17 26	16 52	12 26	12 56	26 15		n.a.
S 29	2 4	10 10	0 28	1 32	0 32	10 52	1 26	25 45	2 27	4 39	1 11	7 5	2 42	18 27	0 45	22 20	0 3	17 25	16 52	12 25	12 55	26 14		n.a.
S 30	2 27	15 52	0n45	2 33	0 22	10 26	1 27	25 42	2 25	4 33	1 11	7 3	2 42	18 28	0 45	22 20	0 3	17 25	16 53	12 25	12 54	26 12		n.a.
M31	2n50	20n41	1n54	3n34	0s11	10s 0	1s28	25n38	2n24	4s27	1s11	7s 2	2n42	18n28	0n45	22s20	0n 3	17s24	16s53	12n26	12n53	26n11		n.a.

Julian Day Number = 1671443.5, Delta T = 03h20m20s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'21, Lahiri = - 5°50'20 Julian Calendar 1 March 137 BCE == Greg. Calendar 27 Feb. 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

APRIL 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 25 13	8♈ 1'54	6♊ 6	11♈29	9♓17	11♋24	21♓51	24°R16	10°R42	18♑46	25♓ 3	2♉23	3♉38	26♋10	n.a.	T 1
W 2	12 29 9	8°59'59	18°25	13°39	10°29	11°48	22° 5	24♎12	10♌41	18°47	25° 5	2°25	3°34	26°16	n.a.	W 2
T 3	12 33 6	9°58'02	0♋31	15°47	11°42	12°12	22°19	24° 8	10°40	18°48	25° 6	2°26	3°31	26°23	n.a.	T 3
F 4	12 37 2	10°56'03	12°29	17°56	12°54	12°36	22°33	24° 3	10°39	18°49	25° 7	2°R26	3°28	26°30	n.a.	F 4
S 5	12 40 59	11°54'02	24°22	20° 3	14° 7	13° 1	22°47	23°59	10°38	18°49	25° 9	2°26	3°25	26°37	n.a.	S 5
S 6	12 44 56	12°51'59	6♌15	22° 9	15°19	13°26	23° 1	23°55	10°38	18°50	25°10	2°24	3°22	26°43	n.a.	S 6
M 7	12 48 52	13°49'54	18°14	24°13	16°32	13°51	23°15	23°51	10°37	18°50	25°11	2°22	3°19	26°50	n.a.	M 7
T 8	12 52 49	14°47'47	0♍21	26°16	17°44	14°17	23°29	23°46	10°36	18°51	25°13	2°19	3°15	26°57	n.a.	T 8
W 9	12 56 45	15°45'38	12°40	28°16	18°57	14°42	23°43	23°42	10°36	18°51	25°14	2°17	3°12	27° 3	n.a.	W 9
T 10	13 0 42	16°43'28	25°13	0♎15	20° 9	15° 8	23°57	23°37	10°35	18°52	25°16	2°14	3° 9	27°10	n.a.	T 10
F 11	13 4 38	17°41'15	8♏ 1	2°10	21°22	15°34	24°10	23°33	10°34	18°52	25°17	2°13	3° 6	27°17	n.a.	F 11
S 12	13 8 35	18°39'02	21° 4	4° 3	22°35	16° 1	24°24	23°29	10°34	18°53	25°18	2°12	3° 3	27°24	n.a.	S 12
S 13	13 12 31	19°36'46	4♐23	5°54	23°47	16°27	24°38	23°24	10°33	18°53	25°19	2°D12	2°59	27°30	n.a.	S 13
M14	13 16 28	20°34'30	17°56	7°41	25° 0	16°54	24°51	23°20	10°33	18°53	25°21	2°12	2°56	27°37	n.a.	M14
T 15	13 20 25	21°32'12	1♑41	9°25	26°12	17°21	25° 5	23°15	10°33	18°54	25°22	2°13	2°53	27°44	n.a.	T 15
W16	13 24 21	22°29'52	15°36	11° 6	27°25	17°48	25°19	23°11	10°32	18°54	25°23	2°14	2°50	27°50	n.a.	W16
T 17	13 28 18	23°27'32	29°40	12°44	28°38	18°16	25°32	23° 6	10°32	18°54	25°25	2°14	2°47	27°57	n.a.	T 17
F 18	13 32 14	24°25'11	13♑50	14°18	29°50	18°43	25°46	23° 2	10°32	18°55	25°26	2°15	2°44	28° 4	n.a.	F 18
S 19	13 36 11	25°22'48	28° 3	15°49	1♈ 3	19°11	25°59	22°57	10°32	18°55	25°27	2°R15	2°40	28°11	n.a.	S 19
S 20	13 40 7	26°20'24	12♒18	17°17	2°16	19°39	26°13	22°53	10°32	18°55	25°28	2°15	2°37	28°17	n.a.	S 20
M21	13 44 4	27°18'00	26°32	18°41	3°28	20° 7	26°26	22°49	10°D32	18°55	25°30	2°14	2°34	28°24	n.a.	M21
T 22	13 48 0	28°15'34	10♓41	20° 2	4°41	20°36	26°39	22°44	10°32	18°55	25°31	2°14	2°31	28°31	n.a.	T 22
W23	13 51 57	29°13'07	24°43	21°19	5°54	21° 5	26°53	22°40	10°32	18°55	25°32	2°13	2°28	28°38	n.a.	W23
T 24	13 55 54	0♉10'39	8♈34	22°33	7° 7	21°33	27° 6	22°35	10°32	18°R55	25°33	2°13	2°25	28°44	n.a.	T 24
F 25	13 59 50	1° 8'10	22°12	23°42	8°19	22° 2	27°19	22°31	10°32	18°55	25°34	2°13	2°21	28°51	n.a.	F 25
S 26	14 3 47	2° 5'39	5♉34	24°48	9°32	22°31	27°32	22°26	10°32	18°55	25°36	2°13	2°18	28°58	n.a.	S 26
S 27	14 7 43	3° 3'08	18°40	25°51	10°45	23° 1	27°45	22°22	10°33	18°55	25°37	2°13	2°15	29° 4	n.a.	S 27
M28	14 11 40	4° 0'36	1♊29	26°49	11°58	23°30	27°58	22°18	10°33	18°55	25°38	2°13	2°12	29°11	n.a.	M28
T 29	14 15 36	4°58'02	14° 1	27°44	13°10	24° 0	28°11	22°13	10°33	18°55	25°39	2°13	2° 9	29°18	n.a.	T 29
W30	14 19 33	5♉55'27	26♊19	28♉34	14♈23	24♋30	28♓24	22♎ 9	10♌34	18♑55	25♓40	2♉12	2♉ 5	29♋25	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n13	24n26	2n55	4n35	0s 1	9s33	1s29	25n35	2n23	4s22	1s11	7s 0	2n42	18n28	0n45	22s20	0n 3	17s24	16s53	12n26	12n52	26n10		n.a.
W 2	3 36	26 58	3 47	5 36	0n10	9 7	1 30	25 32	2 21	4 16	1 12	6 59	2 42	18 29	0 45	22 20	0 3	17 23	16 53	12 27	12 51	26 9		n.a.
T 3	3 59	28 10	4 27	6 36	0 21	8 40	1 31	25 28	2 20	4 11	1 12	6 57	2 42	18 29	0 45	22 20	0 3	17 23	16 53	12 27	12 50	26 7		n.a.
F 4	4 23	28 2	4 56	7 36	0 32	8 12	1 32	25 24	2 18	4 5	1 12	6 55	2 42	18 29	0 45	22 20	0 3	17 22	16 53	12 27	12 49	26 6		n.a.
S 5	4 45	26 36	5 12	8 35	0 42	7 45	1 33	25 21	2 17	3 59	1 12	6 54	2 42	18 29	0 45	22 20	0 3	17 22	16 53	12 27	12 48	26 5		n.a.
S 6	5 8	23 59	5 14	9 32	0 53	7 17	1 34	25 17	2 16	3 54	1 12	6 52	2 43	18 29	0 45	22 20	0 3	17 21	16 53	12 27	12 47	26 4		n.a.
M 7	5 31	20 20	5 3	10 28	1 3	6 49	1 35	25 13	2 15	3 48	1 12	6 50	2 43	18 30	0 45	22 19	0 3	17 21	16 53	12 26	12 46	26 3		n.a.
T 8	5 54	15 48	4 38	11 23	1 13	6 21	1 35	25 9	2 13	3 43	1 12	6 49	2 43	18 30	0 45	22 19	0 3	17 21	16 53	12 25	12 44	26 1		n.a.
W 9	6 16	10 34	4 0	12 16	1 23	5 53	1 36	25 5	2 12	3 37	1 12	6 47	2 43	18 30	0 45	22 19	0 3	17 20	16 53	12 24	12 43	26 0		n.a.
T 10	6 39	4 49	3 10	13 7	1 32	5 25	1 36	25 0	2 11	3 32	1 12	6 46	2 43	18 30	0 45	22 19	0 3	17 20	16 53	12 23	12 42	25 59		n.a.
F 11	7 1	1s14	2 10	13 56	1 40	4 56	1 36	24 56	2 9	3 26	1 12	6 44	2 43	18 30	0 45	22 19	0 3	17 19	16 54	12 23	12 41	25 57		n.a.
S 12	7 23	7 22	1 1	14 43	1 48	4 27	1 37	24 52	2 8	3 21	1 12	6 42	2 43	18 30	0 45	22 19	0 3	17 19	16 54	12 22	12 40	25 56		n.a.
S 13	7 45	13 19	0s12	15 27	1 56	3 59	1 37	24 47	2 7	3 16	1 12	6 41	2 43	18 30	0 45	22 19	0 3	17 18	16 54	12 22	12 39	25 55		n.a.
M14	8 7	18 45	1 26	16 9	2 2	3 30	1 37	24 43	2 6	3 10	1 12	6 39	2 43	18 30	0 45	22 19	0 3	17 18	16 54	12 22	12 38	25 54		n.a.
T 15	8 29	23 17	2 36	16 49	2 8	3 1	1 37	24 38	2 4	3 5	1 12	6 37	2 43	18 30	0 45	22 19	0 3	17 18	16 54	12 23	12 37	25 52		n.a.
W16	8 51	26 32	3 38	17 27	2 14	2 31	1 37	24 33	2 3	2 59	1 12	6 36	2 43	18 31	0 44	22 19	0 3	17 17	16 54	12 23	12 36	25 51		n.a.
T 17	9 13	28 10	4 27	18 2	2 18	2 2	1 37	24 28	2 2	2 54	1 13	6 34	2 43	18 31	0 44	22 19	0 3	17 17	16 54	12 23	12 35	25 50		n.a.
F 18	9 34	27 58	5 0	18 34	2 22	1 33	1 37	24 23	2 1	2 49	1 13	6 32	2 43	18 31	0 44	22 19	0 3	17 17	16 55	12 23	12 33	25 48		n.a.
S 19	9 56	25 56	5 16	19 5	2 25	1 3	1 37	24 18	2 0	2 43	1 13	6 31	2 42	18 31	0 44	22 19	0 3	17 16	16 55	12 24	12 32	25 47		n.a.
S 20	10 17	22 17	5 12	19 32	2 27	0 34	1 37	24 12	1 58	2 38	1 13	6 29	2 42	18 31	0 44	22 19	0 3	17 16	16 55	12 23	12 31	25 46		n.a.
M21	10 38	17 20	4 49	19 58	2 29	0 4	1 36	24 7	1 57	2 33	1 13	6 28	2 42	18 31	0 44	22 19	0 3	17 15	16 55	12 23	12 30	25 44		n.a.
T 22	10 59	11 28	4 8	20 21	2 29	0n25	1 36	24 2	1 56	2 28	1 13	6 26	2 42	18 30	0 44	22 19	0 3	17 15	16 55	12 23	12 29	25 43		n.a.
W23	11 19	5 4	3 13	20 41	2 29	0 55	1 35	23 56	1 55	2 22	1 13	6 24	2 42	18 30	0 44	22 19	0 3	17 15	16 55	12 23	12 28	25 41		n.a.
T 24	11 40	1n29	2 7	21 0	2 28	1 24	1 35	23 50	1 54	2 17	1 13	6 23	2 42	18 30	0 44	22 19	0 3	17 14	16 56	12 23	12 27	25 40		n.a.
F 25	12 0	7 53	0 55	21 16	2 26	1 54	1 34	23 44	1 53	2 12	1 13	6 21	2 42	18 30	0 44	22 19	0 3	17 14	16 56	12 23	12 26	25 39		n.a.
S 26	12 20	13 49	0n19	21 30	2 23	2 23	1 34	23 38	1 52	2 7	1 13	6 20	2 42	18 30	0 44	22 19	0 3	17 14	16 56	12 23	12 25	25 37		n.a.
S 27	12 40	19 1	1 30	21 41	2 19	2 53	1 33	23 32	1 50	2 2	1 14	6 18	2 42	18 30	0 44	22 19	0 3	17 14	16 56	12 23	12 24	25 36		n.a.
M28	13 0	23 13	2 35	21 51	2 14	3 22	1 32	23 26	1 49	1 56	1 14	6 17	2 42	18 30	0 44	22 19	0 3	17 13	16 56	12 23	12 22	25 35		n.a.
T 29	13 20	26 14	3 31	21 58	2 9	3 52	1 31	23 20	1 48	1 51	1 14	6 15	2 42	18 30	0 44	22 19	0 3	17 13	16 57	12 23	12 21	25 33		n.a.
W30	13n39	27n56	4n17	22n 4	2n 3	4n21	1s30	23n13	1n47	1s46	1s14	6s13	2n42	18n30	0n44	22s19	0n 3	17s13	16s57	12n23	12n20	25n32		n.a.

Julian Day Number = 1671474.5, Delta T = 03h20m19s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'16, Lahiri = - 5°50'16 Julian Calendar 1 Apr. 137 BCE == Greg. Calendar 29 March 137 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

MAY 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 23 29	6♉52'51	8♋25	29♉21	15♈36	25♋ 0	28♓36	22°R 5	10♌34	18°R54	25♓41	2°R12	2♉ 2	29♋31	n.a.	T 1
F 2	14 27 26	7°50'13	20°23	0♊ 3	16°49	25°30	28°49	22♎ 1	10°35	18♑54	25°42	2♉11	1°59	29°38	n.a.	F 2
S 3	14 31 23	8°47'35	2♌17	0°41	18° 2	26° 1	29° 2	21°57	10°36	18°54	25°44	2°11	1°56	29°45	n.a.	S 3
S 4	14 35 19	9°44'55	14°11	1°15	19°15	26°31	29°14	21°52	10°36	18°54	25°45	2°D11	1°53	29°52	n.a.	S 4
M 5	14 39 16	10°42'13	26°10	1°44	20°28	27° 2	29°27	21°48	10°37	18°53	25°46	2°11	1°50	29°58	n.a.	M 5
T 6	14 43 12	11°39'31	8♍18	2° 9	21°40	27°33	29°39	21°44	10°38	18°53	25°47	2°12	1°46	0♌ 5	n.a.	T 6
W 7	14 47 9	12°36'48	20°40	2°30	22°53	28° 4	29°52	21°40	10°39	18°53	25°48	2°13	1°43	0°12	n.a.	W 7
T 8	14 51 5	13°34'03	3♎19	2°45	24° 6	28°35	0♈ 4	21°36	10°39	18°52	25°49	2°14	1°40	0°18	n.a.	T 8
F 9	14 55 2	14°31'17	16°17	2°57	25°19	29° 6	0°16	21°32	10°40	18°52	25°50	2°15	1°37	0°25	n.a.	F 9
S 10	14 58 58	15°28'31	29°36	3° 3	26°32	29°37	0°28	21°28	10°41	18°51	25°51	2°R15	1°34	0°32	n.a.	S 10
S 11	15 2 55	16°25'44	13♏15	3°R 5	27°45	0♌ 9	0°40	21°25	10°42	18°51	25°52	2°15	1°30	0°39	n.a.	S 11
M12	15 6 52	17°22'56	27°12	3° 3	28°58	0°41	0°52	21°21	10°43	18°50	25°53	2°14	1°27	0°45	n.a.	M12
T 13	15 10 48	18°20'08	11♐25	2°56	0♉11	1°12	1° 4	21°17	10°45	18°50	25°54	2°12	1°24	0°52	n.a.	T 13
W14	15 14 45	19°17'19	25°48	2°45	1°24	1°44	1°16	21°13	10°46	18°49	25°55	2°10	1°21	0°59	n.a.	W14
T 15	15 18 41	20°14'30	10♑16	2°30	2°37	2°17	1°28	21°10	10°47	18°48	25°55	2° 8	1°18	1° 5	n.a.	T 15
F 16	15 22 38	21°11'40	24°43	2°11	3°50	2°49	1°40	21° 6	10°48	18°48	25°56	2° 6	1°15	1°12	n.a.	F 16
S 17	15 26 34	22° 8'50	9♒ 6	1°48	5° 3	3°21	1°51	21° 3	10°50	18°47	25°57	2° 5	1°11	1°19	n.a.	S 17
S 18	15 30 31	23° 6'00	23°20	1°23	6°16	3°54	2° 3	20°59	10°51	18°46	25°58	2°D 5	1° 8	1°26	n.a.	S 18
M19	15 34 28	24° 3'09	7♓23	0°54	7°29	4°26	2°14	20°56	10°52	18°46	25°59	2° 5	1° 5	1°32	n.a.	M19
T 20	15 38 24	25° 0'19	21°15	0°23	8°42	4°59	2°25	20°53	10°54	18°45	26° 0	2° 6	1° 2	1°39	n.a.	T 20
W21	15 42 21	25°57'28	4♈53	29♉51	9°55	5°32	2°37	20°49	10°55	18°44	26° 1	2° 8	0°59	1°46	n.a.	W21
T 22	15 46 17	26°54'37	18°19	29°17	11° 8	6° 5	2°48	20°46	10°57	18°43	26° 1	2° 9	0°56	1°53	n.a.	T 22
F 23	15 50 14	27°51'46	1♉32	28°42	12°22	6°38	2°59	20°43	10°59	18°42	26° 2	2°R 9	0°52	1°59	n.a.	F 23
S 24	15 54 10	28°48'55	14°32	28° 8	13°35	7°11	3°10	20°40	11° 0	18°41	26° 3	2° 9	0°49	2° 6	n.a.	S 24
S 25	15 58 7	29°46'04	27°19	27°33	14°48	7°44	3°21	20°37	11° 2	18°41	26° 4	2° 7	0°46	2°13	n.a.	S 25
M26	16 2 3	0♊43'12	9♊53	27° 0	16° 1	8°18	3°31	20°34	11° 4	18°40	26° 4	2° 4	0°43	2°19	n.a.	M26
T 27	16 6 0	1°40'21	22°16	26°29	17°14	8°51	3°42	20°31	11° 6	18°39	26° 5	1°59	0°40	2°26	n.a.	T 27
W28	16 9 57	2°37'29	4♋28	25°59	18°28	9°25	3°53	20°29	11° 8	18°38	26° 6	1°54	0°36	2°33	n.a.	W28
T 29	16 13 53	3°34'36	16°31	25°33	19°41	9°59	4° 3	20°26	11° 9	18°37	26° 6	1°49	0°33	2°40	n.a.	T 29
F 30	16 17 50	4°31'44	28°27	25° 9	20°54	10°33	4°13	20°23	11°11	18°36	26° 7	1°44	0°30	2°46	n.a.	F 30
S 31	16 21 46	5♊28'51	10♌20	24♉49	22♉ 7	11♌ 7	4♈24	20♎21	11♌13	18♑35	26♓ 8	1♉40	0♉27	2♌53	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	13n58	28n16	4n50	22n 7	1n55	4n50	1s29	23n 7	1n46	1s41	1s14	6s12	2n42	18n29	0n44	22s19	0n 3	17s13	16s57	12n22	12n19	25n30		n.a.
F 2	14 17	27 15	5 10	22 8	1 47	5 20	1 28	23 0	1 45	1 36	1 14	6 10	2 42	18 29	0 44	22 19	0 3	17 12	16 57	12 22	12 18	25 29		n.a.
S 3	14 36	25 0	5 16	22 8	1 38	5 49	1 27	22 53	1 44	1 31	1 14	6 9	2 41	18 29	0 44	22 19	0 3	17 12	16 58	12 22	12 17	25 27		n.a.
S 4	14 54	21 41	5 10	22 5	1 28	6 18	1 26	22 46	1 43	1 26	1 14	6 8	2 41	18 29	0 44	22 19	0 3	17 12	16 58	12 22	12 16	25 26		n.a.
M 5	15 12	17 28	4 49	22 0	1 17	6 47	1 25	22 39	1 42	1 21	1 14	6 6	2 41	18 29	0 44	22 19	0 3	17 12	16 58	12 22	12 15	25 24		n.a.
T 6	15 30	12 30	4 16	21 54	1 6	7 15	1 23	22 32	1 41	1 17	1 15	6 5	2 41	18 28	0 44	22 19	0 3	17 11	16 58	12 23	12 14	25 23		n.a.
W 7	15 48	6 57	3 30	21 46	0 53	7 44	1 22	22 25	1 39	1 12	1 15	6 3	2 41	18 28	0 44	22 19	0 3	17 11	16 58	12 23	12 12	25 22		n.a.
T 8	16 6	1 1	2 33	21 36	0 40	8 12	1 21	22 17	1 38	1 7	1 15	6 2	2 41	18 28	0 44	22 20	0 3	17 11	16 59	12 23	12 11	25 20		n.a.
F 9	16 23	5s 8	1 27	21 25	0 26	8 41	1 19	22 10	1 37	1 2	1 15	6 1	2 41	18 28	0 44	22 20	0 3	17 11	16 59	12 23	12 10	25 19		n.a.
S 10	16 40	11 14	0 15	21 12	0 12	9 9	1 18	22 2	1 36	0 57	1 15	5 59	2 41	18 27	0 44	22 20	0 3	17 11	16 59	12 24	12 9	25 17		n.a.
S 11	16 56	16 57	1s 0	20 58	0s 3	9 37	1 16	21 54	1 35	0 53	1 15	5 58	2 40	18 27	0 44	22 20	0 3	17 11	17 0	12 24	12 8	25 16		n.a.
M12	17 13	21 55	2 13	20 42	0 19	10 4	1 14	21 46	1 34	0 48	1 15	5 57	2 40	18 27	0 44	22 20	0 3	17 10	17 0	12 23	12 7	25 14		n.a.
T 13	17 29	25 42	3 20	20 25	0 35	10 32	1 13	21 38	1 33	0 43	1 16	5 55	2 40	18 26	0 43	22 20	0 3	17 10	17 0	12 23	12 6	25 13		n.a.
W14	17 45	27 52	4 14	20 6	0 52	10 59	1 11	21 30	1 32	0 39	1 16	5 54	2 40	18 26	0 43	22 20	0 3	17 10	17 0	12 22	12 5	25 11		n.a.
T 15	18 1	28 10	4 52	19 47	1 8	11 26	1 9	21 22	1 31	0 34	1 16	5 53	2 40	18 25	0 43	22 20	0 3	17 10	17 1	12 21	12 4	25 9		n.a.
F 16	18 16	26 32	5 12	19 27	1 25	11 53	1 8	21 13	1 30	0 29	1 16	5 52	2 40	18 25	0 43	22 20	0 2	17 10	17 1	12 20	12 2	25 8		n.a.
S 17	18 31	23 12	5 12	19 6	1 42	12 19	1 6	21 4	1 29	0 25	1 16	5 51	2 39	18 25	0 43	22 20	0 2	17 10	17 1	12 20	12 1	25 6		n.a.
S 18	18 46	18 30	4 53	18 44	1 59	12 46	1 4	20 56	1 28	0 20	1 16	5 50	2 39	18 24	0 43	22 20	0 2	17 10	17 1	12 20	12 0	25 5		n.a.
M19	19 0	12 52	4 17	18 22	2 15	13 12	1 2	20 47	1 27	0 16	1 16	5 48	2 39	18 24	0 43	22 21	0 2	17 10	17 2	12 20	11 59	25 3		n.a.
T 20	19 14	6 40	3 26	18 1	2 31	13 37	1 0	20 38	1 26	0 12	1 17	5 47	2 39	18 23	0 43	22 21	0 2	17 10	17 2	12 20	11 58	25 2		n.a.
W21	19 28	0 14	2 24	17 39	2 46	14 2	0 58	20 29	1 25	0 7	1 17	5 46	2 39	18 23	0 43	22 21	0 2	17 10	17 2	12 21	11 57	25 0		n.a.
T 22	19 41	6n 6	1 15	17 17	3 1	14 27	0 56	20 20	1 24	0 3	1 17	5 45	2 39	18 22	0 43	22 21	0 2	17 10	17 3	12 21	11 56	24 59		n.a.
F 23	19 55	12 5	0 3	16 57	3 14	14 52	0 54	20 10	1 23	0n 1	1 17	5 44	2 38	18 22	0 43	22 21	0 2	17 10	17 3	12 22	11 55	24 57		n.a.
S 24	20 7	17 27	1n 7	16 37	3 27	15 16	0 52	20 1	1 22	0 6	1 17	5 43	2 38	18 21	0 43	22 21	0 2	17 9	17 3	12 21	11 53	24 55		n.a.
S 25	20 20	21 57	2 13	16 18	3 38	15 40	0 50	19 51	1 21	0 10	1 17	5 42	2 38	18 21	0 43	22 21	0 2	17 9	17 4	12 21	11 52	24 54		n.a.
M26	20 32	25 21	3 12	16 0	3 48	16 4	0 47	19 41	1 20	0 14	1 18	5 41	2 38	18 20	0 43	22 21	0 2	17 9	17 4	12 20	11 51	24 52		n.a.
T 27	20 44	27 29	4 0	15 45	3 57	16 27	0 45	19 32	1 19	0 18	1 18	5 41	2 37	18 20	0 43	22 22	0 2	17 9	17 4	12 18	11 50	24 51		n.a.
W28	20 55	28 15	4 37	15 30	4 5	16 50	0 43	19 22	1 19	0 22	1 18	5 40	2 37	18 19	0 43	22 22	0 2	17 9	17 4	12 16	11 49	24 49		n.a.
T 29	21 7	27 39	5 0	15 18	4 11	17 12	0 41	19 12	1 18	0 26	1 18	5 39	2 37	18 19	0 43	22 22	0 2	17 10	17 5	12 14	11 48	24 47		n.a.
F 30	21 17	25 46	5 11	15 8	4 16	17 34	0 39	19 1	1 17	0 30	1 18	5 38	2 37	18 18	0 43	22 22	0 2	17 10	17 5	12 13	11 47	24 46		n.a.
S 31	21n28	22n47	5n 8	15n 0	4s19	17n55	0s36	18n51	1n16	0n34	1s18	5s37	2n37	18n18	0n43	22s22	0n 2	17s10	17s 5	12n11	11n46	24n44		n.a.

Julian Day Number = 1671504.5, Delta T = 03h20m18s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'12, Lahiri = - 5°50'12 Julian Calendar 1 May 137 BCE == Greg. Calendar 28 Apr. 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

JUNE 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 25 43	6♊25'58	22♌12	24°R33	23♉21	11♌41	4♈34	20°R18	11♌15	18°R33	26♓ 8	1°R38	0♉24	3♌ 0	n.a.	S 1
M 2	16 29 39	7°23'04	4♍10	24♉21	24°34	12°15	4°44	20♎16	11°18	18♏32	26° 9	1°D36	0°21	3° 7	n.a.	M 2
T 3	16 33 36	8°20'10	16°16	24°14	25°47	12°50	4°54	20°14	11°20	18°31	26° 9	1♉37	0°17	3°13	n.a.	T 3
W 4	16 37 32	9°17'16	28°37	24°D12	27° 1	13°24	5° 4	20°12	11°22	18°30	26°10	1°38	0°14	3°20	n.a.	W 4
T 5	16 41 29	10°14'22	11♎15	24°14	28°14	13°59	5°13	20°10	11°24	18°29	26°10	1°39	0°11	3°27	n.a.	T 5
F 6	16 45 26	11°11'28	24°17	24°21	29°27	14°33	5°23	20° 8	11°26	18°28	26°11	1°41	0° 8	3°33	n.a.	F 6
S 7	16 49 22	12° 8'34	7♏43	24°33	0♊41	15° 8	5°32	20° 6	11°29	18°26	26°11	1°R41	0° 5	3°40	n.a.	S 7
S 8	16 53 19	13° 5'40	21°35	24°51	1°54	15°43	5°41	20° 4	11°31	18°25	26°12	1°39	0° 2	3°47	n.a.	S 8
M 9	16 57 15	14° 2'46	5♐51	25°13	3° 8	16°18	5°51	20° 2	11°33	18°24	26°12	1°36	29♈58	3°54	n.a.	M 9
T 10	17 1 12	14°59'52	20°27	25°41	4°21	16°53	6° 0	20° 0	11°36	18°23	26°13	1°31	29°55	4° 0	n.a.	T 10
W11	17 5 8	15°56'59	5♑16	26°14	5°35	17°28	6° 9	19°59	11°38	18°21	26°13	1°24	29°52	4° 7	n.a.	W11
T 12	17 9 5	16°54'06	20°10	26°52	6°48	18° 3	6°18	19°57	11°41	18°20	26°13	1°18	29°49	4°14	n.a.	T 12
F 13	17 13 2	17°51'13	5♒ 0	27°35	8° 2	18°39	6°26	19°56	11°43	18°19	26°14	1°12	29°46	4°21	n.a.	F 13
S 14	17 16 58	18°48'21	19°40	28°23	9°15	19°14	6°35	19°55	11°46	18°17	26°14	1° 7	29°42	4°27	n.a.	S 14
S 15	17 20 55	19°45'30	4♓ 3	29°16	10°29	19°50	6°43	19°54	11°49	18°16	26°15	1° 4	29°39	4°34	n.a.	S 15
M16	17 24 51	20°42'40	18° 7	0♊14	11°42	20°25	6°52	19°52	11°51	18°15	26°15	1°D 3	29°36	4°41	n.a.	M16
T 17	17 28 48	21°39'50	1♈51	1°17	12°56	21° 1	7° 0	19°51	11°54	18°13	26°15	1° 3	29°33	4°47	n.a.	T 17
W18	17 32 44	22°37'01	15°16	2°25	14°10	21°37	7° 8	19°51	11°57	18°12	26°15	1° 4	29°30	4°54	n.a.	W18
T 19	17 36 41	23°34'13	28°24	3°37	15°23	22°13	7°16	19°50	11°59	18°10	26°16	1°R 5	29°27	5° 1	n.a.	T 19
F 20	17 40 37	24°31'26	11♉17	4°54	16°37	22°49	7°23	19°49	12° 2	18° 9	26°16	1° 4	29°23	5° 8	n.a.	F 20
S 21	17 44 34	25°28'40	23°57	6°15	17°51	23°25	7°31	19°48	12° 5	18° 7	26°16	1° 2	29°20	5°14	n.a.	S 21
S 22	17 48 31	26°25'54	6♊26	7°41	19° 4	24° 1	7°39	19°48	12° 8	18° 6	26°16	0°57	29°17	5°21	n.a.	S 22
M23	17 52 27	27°23'10	18°46	9°11	20°18	24°38	7°46	19°47	12°11	18° 5	26°16	0°50	29°14	5°28	n.a.	M23
T 24	17 56 24	28°20'26	0♋58	10°46	21°32	25°14	7°53	19°47	12°14	18° 3	26°16	0°41	29°11	5°34	n.a.	T 24
W25	18 0 20	29°17'43	13° 1	12°24	22°46	25°51	8° 0	19°47	12°17	18° 1	26°17	0°30	29° 8	5°41	n.a.	W25
T 26	18 4 17	0♋15'01	24°59	14° 6	24° 0	26°27	8° 7	19°47	12°20	18° 0	26°17	0°19	29° 4	5°48	n.a.	T 26
F 27	18 8 13	1°12'19	6♌53	15°51	25°13	27° 4	8°14	19°D47	12°23	17°58	26°17	0° 8	29° 1	5°55	n.a.	F 27
S 28	18 12 10	2° 9'38	18°44	17°40	26°27	27°41	8°20	19°47	12°26	17°57	26°17	29♈59	28°58	6° 1	n.a.	S 28
S 29	18 16 6	3° 6'57	0♍35	19°32	27°41	28°17	8°27	19°47	12°29	17°55	26°R17	29°52	28°55	6° 8	n.a.	S 29
M30	18 20 3	4♋ 4'18	12♍31	21♊27	28♊55	28♌54	8♈33	19♎47	12♌32	17♏54	26♓17	29♈47	28♈52	6♌15	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n38	18n51	4n52	14n55	4s21	18n16	0s34	18n40	1n15	0n38	1s19	5s37	2n36	18n17	0n43	22s22	0n 2	17s10	17s 6	12n10	11n44	24n42		n.a.
M 2	21 48	14 10	4 23	14 51	4 21	18 37	0 32	18 30	1 14	0 42	1 19	5 36	2 36	18 16	0 43	22 23	0 2	17 10	17 6	12 10	11 43	24 41		n.a.
T 3	21 57	8 52	3 42	14 50	4 20	18 57	0 29	18 19	1 13	0 46	1 19	5 35	2 36	18 16	0 43	22 23	0 2	17 10	17 6	12 10	11 42	24 39		n.a.
W 4	22 6	3 9	2 50	14 52	4 18	19 17	0 27	18 8	1 12	0 49	1 19	5 35	2 36	18 15	0 43	22 23	0 2	17 10	17 7	12 11	11 41	24 37		n.a.
T 5	22 14	2s50	1 49	14 56	4 15	19 36	0 25	17 57	1 11	0 53	1 19	5 34	2 35	18 14	0 43	22 23	0 2	17 10	17 7	12 11	11 40	24 36		n.a.
F 6	22 23	8 54	0 40	15 2	4 10	19 54	0 22	17 46	1 10	0 57	1 20	5 34	2 35	18 14	0 43	22 23	0 2	17 10	17 7	12 11	11 39	24 34		n.a.
S 7	22 30	14 45	0s33	15 10	4 4	20 12	0 20	17 35	1 9	1 0	1 20	5 33	2 35	18 13	0 43	22 23	0 2	17 10	17 8	12 12	11 38	24 32		n.a.
S 8	22 38	20 4	1 46	15 21	3 58	20 30	0 17	17 24	1 8	1 4	1 20	5 33	2 35	18 12	0 43	22 24	0 2	17 10	17 8	12 11	11 37	24 31		n.a.
M 9	22 45	24 23	2 54	15 34	3 50	20 47	0 15	17 12	1 7	1 7	1 20	5 32	2 34	18 12	0 43	22 24	0 2	17 10	17 8	12 10	11 35	24 29		n.a.
T 10	22 52	27 14	3 53	15 49	3 42	21 3	0 13	17 1	1 6	1 11	1 20	5 32	2 34	18 11	0 43	22 24	0 2	17 11	17 9	12 8	11 34	24 27		n.a.
W11	22 58	28 13	4 37	16 5	3 32	21 19	0 10	16 49	1 6	1 14	1 21	5 32	2 34	18 10	0 43	22 24	0 2	17 11	17 9	12 6	11 33	24 25		n.a.
T 12	23 4	27 9	5 2	16 24	3 22	21 34	0 8	16 37	1 5	1 18	1 21	5 31	2 34	18 10	0 43	22 24	0 2	17 11	17 9	12 3	11 32	24 24		n.a.
F 13	23 9	24 11	5 7	16 44	3 12	21 49	0 5	16 25	1 4	1 21	1 21	5 31	2 33	18 9	0 43	22 25	0 2	17 11	17 10	12 1	11 31	24 22		n.a.
S 14	23 14	19 42	4 52	17 6	3 1	22 3	0 3	16 13	1 3	1 24	1 21	5 31	2 33	18 8	0 42	22 25	0 2	17 11	17 10	12 0	11 30	24 20		n.a.
S 15	23 19	14 8	4 18	17 29	2 49	22 16	0 0	16 1	1 2	1 27	1 21	5 30	2 33	18 7	0 42	22 25	0 2	17 11	17 11	11 59	11 29	24 19		n.a.
M16	23 23	7 58	3 30	17 53	2 37	22 29	0n 2	15 49	1 1	1 30	1 22	5 30	2 33	18 7	0 42	22 25	0 2	17 12	17 11	11 58	11 28	24 17		n.a.
T 17	23 27	1 33	2 31	18 18	2 24	22 41	0 4	15 36	1 0	1 33	1 22	5 30	2 32	18 6	0 42	22 25	0 2	17 12	17 11	11 58	11 26	24 15		n.a.
W18	23 30	4n47	1 24	18 44	2 11	22 52	0 7	15 24	0 59	1 36	1 22	5 30	2 32	18 5	0 42	22 26	0 2	17 12	17 12	11 59	11 25	24 13		n.a.
T 19	23 33	10 48	0 14	19 11	1 58	23 3	0 9	15 11	0 59	1 39	1 22	5 30	2 32	18 4	0 42	22 26	0 2	17 12	17 12	11 59	11 24	24 11		n.a.
F 20	23 36	16 15	0n54	19 38	1 45	23 13	0 12	14 58	0 58	1 42	1 23	5 30	2 32	18 3	0 42	22 26	0 2	17 13	17 12	11 59	11 23	24 10		n.a.
S 21	23 38	20 54	1 59	20 6	1 31	23 23	0 14	14 46	0 57	1 45	1 23	5 30	2 31	18 3	0 42	22 26	0 2	17 13	17 13	11 58	11 22	24 8		n.a.
S 22	23 40	24 33	2 57	20 34	1 18	23 32	0 16	14 33	0 56	1 48	1 23	5 30	2 31	18 2	0 42	22 26	0 2	17 13	17 13	11 56	11 21	24 6		n.a.
M23	23 41	26 59	3 46	21 1	1 5	23 40	0 19	14 20	0 55	1 51	1 23	5 30	2 31	18 1	0 42	22 27	0 2	17 13	17 13	11 54	11 20	24 4		n.a.
T 24	23 42	28 7	4 24	21 28	0 51	23 47	0 21	14 6	0 54	1 53	1 23	5 30	2 31	18 0	0 42	22 27	0 2	17 14	17 14	11 50	11 18	24 3		n.a.
W25	23 43	27 52	4 50	21 55	0 38	23 54	0 23	13 53	0 53	1 56	1 24	5 30	2 30	17 59	0 42	22 27	0 2	17 14	17 14	11 47	11 17	24 1		n.a.
T 26	23 43	26 19	5 2	22 20	0 25	24 0	0 25	13 40	0 52	1 58	1 24	5 31	2 30	17 58	0 42	22 27	0 2	17 14	17 14	11 43	11 16	23 59		n.a.
F 27	23 42	23 37	5 1	22 45	0 12	24 5	0 28	13 26	0 52	2 1	1 24	5 31	2 30	17 57	0 42	22 27	0 2	17 14	17 15	11 39	11 15	23 57		n.a.
S 28	23 42	19 56	4 47	23 8	0 0	24 10	0 30	13 13	0 51	2 3	1 24	5 31	2 30	17 56	0 42	22 28	0 2	17 15	17 15	11 36	11 14	23 55		n.a.
S 29	23 41	15 27	4 21	23 29	0n12	24 14	0 32	12 59	0 50	2 6	1 25	5 31	2 29	17 56	0 42	22 28	0 2	17 15	17 15	11 33	11 13	23 53		n.a.
M30	23n39	10n23	3n44	23n49	0n23	24n17	0n34	12n45	0n49	2n 8	1s25	5s32	2n29	17n55	0n42	22s28	0n 2	17s15	17s16	11n32	11n12	23n52		n.a.

Julian Day Number = 1671535.5, Delta T = 03h20m17s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'08, Lahiri = - 5°50'08 Julian Calendar 1 June 137 BCE == Greg. Calendar 29 May 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

JULY 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 24 0	5♋ 1'39	24♍35	23♊24	0♋ 9	29♌31	8♈39	19♎47	12♌35	17°R52	26°R17	29°R45	28♈48	6♌22	n.a.	T 1
W 2	18 27 56	5°59'00	6♎52	25°23	1°23	0♍ 9	8°45	19°48	12°38	17♉51	26♓17	29°D45	28°45	6°28	n.a.	W 2
T 3	18 31 53	6°56'23	19°27	27°24	2°37	0°46	8°51	19°48	12°42	17°49	26°17	29♈45	28°42	6°35	n.a.	T 3
F 4	18 35 49	7°53'46	2♏25	29°26	3°51	1°23	8°56	19°49	12°45	17°47	26°17	29°R45	28°39	6°42	n.a.	F 4
S 5	18 39 46	8°51'10	15°50	1♋30	5° 5	2° 0	9° 2	19°50	12°48	17°46	26°16	29°44	28°36	6°48	n.a.	S 5
S 6	18 43 42	9°48'35	29°44	3°33	6°19	2°38	9° 7	19°50	12°51	17°44	26°16	29°41	28°33	6°55	n.a.	S 6
M 7	18 47 39	10°46'01	14♐ 6	5°38	7°33	3°15	9°12	19°51	12°55	17°43	26°16	29°36	28°29	7° 2	n.a.	M 7
T 8	18 51 35	11°43'28	28°54	7°42	8°47	3°53	9°17	19°52	12°58	17°41	26°16	29°28	28°26	7° 9	n.a.	T 8
W 9	18 55 32	12°40'56	13♑59	9°47	10° 1	4°31	9°22	19°53	13° 1	17°39	26°16	29°18	28°23	7°15	n.a.	W 9
T 10	18 59 29	13°38'26	29°13	11°51	11°15	5° 9	9°27	19°55	13° 5	17°38	26°16	29° 8	28°20	7°22	n.a.	T 10
F 11	19 3 25	14°35'56	14♒24	13°54	12°29	5°46	9°31	19°56	13° 8	17°36	26°15	28°58	28°17	7°29	n.a.	F 11
S 12	19 7 22	15°33'28	29°22	15°56	13°43	6°24	9°35	19°57	13°12	17°34	26°15	28°50	28°14	7°36	n.a.	S 12
S 13	19 11 18	16°31'02	14♓ 0	17°58	14°57	7° 2	9°39	19°59	13°15	17°33	26°15	28°45	28°10	7°42	n.a.	S 13
M14	19 15 15	17°28'37	28°12	19°59	16°12	7°40	9°43	20° 0	13°19	17°31	26°15	28°42	28° 7	7°49	n.a.	M14
T 15	19 19 11	18°26'13	11♈59	21°58	17°26	8°19	9°47	20° 2	13°22	17°30	26°14	28°40	28° 4	7°56	n.a.	T 15
W16	19 23 8	19°23'52	25°21	23°56	18°40	8°57	9°50	20° 4	13°26	17°28	26°14	28°40	28° 1	8° 2	n.a.	W16
T 17	19 27 5	20°21'32	8♉21	25°54	19°54	9°35	9°54	20° 6	13°29	17°26	26°14	28°40	27°58	8° 9	n.a.	T 17
F 18	19 31 1	21°19'14	21° 3	27°49	21° 9	10°14	9°57	20° 8	13°33	17°25	26°13	28°39	27°54	8°16	n.a.	F 18
S 19	19 34 58	22°16'57	3♊31	29°44	22°23	10°52	10° 0	20°10	13°36	17°23	26°13	28°35	27°51	8°23	n.a.	S 19
S 20	19 38 54	23°14'42	15°48	1♌37	23°37	11°31	10° 3	20°12	13°40	17°21	26°12	28°28	27°48	8°29	n.a.	S 20
M21	19 42 51	24°12'29	27°56	3°28	24°51	12°10	10° 5	20°14	13°43	17°20	26°12	28°19	27°45	8°36	n.a.	M21
T 22	19 46 47	25°10'18	9♋57	5°18	26° 6	12°48	10° 8	20°16	13°47	17°18	26°11	28° 7	27°42	8°43	n.a.	T 22
W23	19 50 44	26° 8'08	21°54	7° 7	27°20	13°27	10°10	20°19	13°51	17°17	26°11	27°53	27°39	8°49	n.a.	W23
T 24	19 54 40	27° 6'00	3♌48	8°55	28°35	14° 6	10°12	20°21	13°54	17°15	26°10	27°39	27°35	8°56	n.a.	T 24
F 25	19 58 37	28° 3'53	15°39	10°41	29°49	14°45	10°14	20°24	13°58	17°13	26°10	27°25	27°32	9° 3	n.a.	F 25
S 26	20 2 34	29° 1'48	27°30	12°26	1♌ 3	15°24	10°15	20°27	14° 2	17°12	26° 9	27°13	27°29	9°10	n.a.	S 26
S 27	20 6 30	29°59'44	9♍23	14° 9	2°18	16° 3	10°17	20°29	14° 5	17°10	26° 9	27° 4	27°26	9°16	n.a.	S 27
M28	20 10 27	0♌57'42	21°20	15°51	3°32	16°43	10°18	20°32	14° 9	17° 9	26° 8	26°57	27°23	9°23	n.a.	M28
T 29	20 14 23	1°55'42	3♎24	17°32	4°47	17°22	10°19	20°35	14°13	17° 7	26° 8	26°53	27°20	9°30	n.a.	T 29
W30	20 18 20	2°53'42	15°40	19°12	6° 1	18° 1	10°20	20°38	14°16	17° 5	26° 7	26°51	27°16	9°37	n.a.	W30
T 31	20 22 16	3♌51'45	28♎13	20♌50	7♌16	18♍41	10♈20	20♎41	14♌20	17♉ 4	26♓ 6	26♈51	27♈13	9♌43	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n37	4n52	2n56	24n 6	0n34	24n19	0n36	12n31	0n48	2n10	1s25	5s32	2n29	17n54	0n42	22s28	0n 2	17s16	17s16	11n31	11n10	23n50			n.a.
W 2	23 35	0s57	1 59	24 22	0 44	24 21	0 39	12 17	0 47	2 12	1 25	5 32	2 28	17 53	0 42	22 29	0 2	17 16	17 17	11 31	11 9	23 48			n.a.
T 3	23 32	6 51	0 55	24 34	0 53	24 22	0 41	12 3	0 47	2 14	1 26	5 33	2 28	17 52	0 42	22 29	0 2	17 16	17 17	11 31	11 8	23 46			n.a.
F 4	23 29	12 40	0s14	24 45	1 2	24 22	0 43	11 49	0 46	2 16	1 26	5 33	2 28	17 51	0 42	22 29	0 2	17 17	17 17	11 31	11 7	23 44			n.a.
S 5	23 25	18 7	1 24	24 52	1 10	24 22	0 45	11 35	0 45	2 18	1 26	5 34	2 28	17 50	0 42	22 29	0 2	17 17	17 18	11 30	11 6	23 42			n.a.
S 6	23 21	22 48	2 32	24 57	1 17	24 20	0 47	11 20	0 44	2 20	1 26	5 34	2 27	17 49	0 42	22 29	0 2	17 17	17 18	11 29	11 5	23 40			n.a.
M 7	23 16	26 16	3 32	24 59	1 23	24 18	0 49	11 6	0 43	2 22	1 27	5 35	2 27	17 48	0 42	22 30	0 2	17 18	17 18	11 27	11 4	23 38			n.a.
T 8	23 11	28 2	4 20	24 58	1 29	24 16	0 51	10 51	0 42	2 24	1 27	5 36	2 27	17 47	0 42	22 30	0 2	17 18	17 19	11 25	11 2	23 37			n.a.
W 9	23 6	27 47	4 51	24 55	1 34	24 12	0 52	10 37	0 42	2 25	1 27	5 36	2 27	17 46	0 42	22 30	0 2	17 19	17 19	11 21	11 1	23 35			n.a.
T 10	23 0	25 27	5 1	24 48	1 38	24 8	0 54	10 22	0 41	2 27	1 27	5 37	2 26	17 45	0 42	22 30	0 2	17 19	17 19	11 17	11 0	23 33			n.a.
F 11	22 54	21 19	4 50	24 40	1 41	24 3	0 56	10 7	0 40	2 28	1 28	5 38	2 26	17 44	0 42	22 31	0 2	17 19	17 20	11 14	10 59	23 31			n.a.
S 12	22 48	15 52	4 20	24 28	1 44	23 57	0 58	9 52	0 39	2 30	1 28	5 39	2 26	17 43	0 42	22 31	0 2	17 20	17 20	11 11	10 58	23 29			n.a.
S 13	22 41	9 38	3 33	24 14	1 46	23 51	1 0	9 37	0 38	2 31	1 28	5 39	2 25	17 42	0 42	22 31	0 2	17 20	17 20	11 9	10 57	23 27			n.a.
M14	22 33	3 4	2 34	23 58	1 47	23 44	1 1	9 22	0 37	2 32	1 28	5 40	2 25	17 41	0 42	22 31	0 2	17 21	17 21	11 8	10 56	23 25			n.a.
T 15	22 26	3n27	1 27	23 40	1 48	23 36	1 3	9 7	0 37	2 34	1 29	5 41	2 25	17 40	0 42	22 32	0 2	17 21	17 21	11 8	10 54	23 23			n.a.
W16	22 18	9 39	0 18	23 20	1 47	23 28	1 4	8 52	0 36	2 35	1 29	5 42	2 25	17 39	0 42	22 32	0 2	17 21	17 21	11 8	10 53	23 21			n.a.
T 17	22 9	15 15	0n51	22 57	1 47	23 18	1 6	8 36	0 35	2 36	1 29	5 43	2 24	17 38	0 42	22 32	0 2	17 22	17 22	11 7	10 52	23 19			n.a.
F 18	22 0	20 5	1 55	22 33	1 45	23 8	1 7	8 21	0 34	2 37	1 29	5 44	2 24	17 37	0 42	22 32	0 2	17 22	17 22	11 7	10 51	23 17			n.a.
S 19	21 51	23 55	2 53	22 8	1 44	22 58	1 9	8 5	0 33	2 38	1 30	5 45	2 24	17 36	0 42	22 32	0 2	17 23	17 22	11 6	10 50	23 15			n.a.
S 20	21 41	26 37	3 41	21 40	1 41	22 46	1 10	7 50	0 33	2 39	1 30	5 46	2 24	17 35	0 42	22 33	0 2	17 23	17 23	11 3	10 49	23 13			n.a.
M21	21 31	28 1	4 19	21 12	1 38	22 34	1 11	7 34	0 32	2 39	1 30	5 47	2 23	17 34	0 42	22 33	0 2	17 24	17 23	11 0	10 48	23 11			n.a.
T 22	21 21	28 4	4 45	20 42	1 35	22 22	1 13	7 18	0 31	2 40	1 31	5 48	2 23	17 33	0 42	22 33	0 2	17 24	17 23	10 55	10 46	23 9			n.a.
W23	21 10	26 48	4 58	20 10	1 31	22 8	1 14	7 3	0 30	2 41	1 31	5 49	2 23	17 32	0 42	22 33	0 2	17 25	17 24	10 51	10 45	23 7			n.a.
T 24	20 59	24 20	4 57	19 38	1 27	21 54	1 15	6 47	0 29	2 41	1 31	5 51	2 23	17 31	0 42	22 34	0 2	17 25	17 24	10 45	10 44	23 5			n.a.
F 25	20 47	20 51	4 45	19 5	1 23	21 40	1 16	6 31	0 29	2 42	1 31	5 52	2 22	17 30	0 42	22 34	0 2	17 26	17 24	10 40	10 43	23 3			n.a.
S 26	20 35	16 31	4 19	18 31	1 18	21 24	1 17	6 15	0 28	2 42	1 32	5 53	2 22	17 28	0 42	22 34	0 2	17 26	17 24	10 36	10 42	23 1			n.a.
S 27	20 23	11 34	3 42	17 56	1 13	21 8	1 18	5 59	0 27	2 43	1 32	5 54	2 22	17 27	0 42	22 34	0 2	17 27	17 25	10 33	10 41	22 59			n.a.
M28	20 10	6 10	2 56	17 20	1 7	20 52	1 19	5 42	0 26	2 43	1 32	5 56	2 22	17 26	0 42	22 34	0 2	17 27	17 25	10 30	10 39	22 57			n.a.
T 29	19 57	0 28	2 1	16 43	1 1	20 35	1 20	5 26	0 26	2 43	1 32	5 57	2 21	17 25	0 42	22 35	0 2	17 28	17 25	10 29	10 38	22 55			n.a.
W30	19 44	5s20	0 59	16 6	0 55	20 17	1 21	5 10	0 25	2 43	1 33	5 58	2 21	17 24	0 42	22 35	0 2	17 28	17 26	10 28	10 37	22 53			n.a.
T 31	19n31	11s 4	0s 7	15n29	0n49	19n59	1n21	4n54	0n24	2n43	1s33	6s 0	2n21	17n23	0n42	22s35	0n 2	17s29	17s26	10n28	10n36	22n51			n.a.

Julian Day Number = 1671565.5, Delta T = 03h20m16s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'04, Lahiri = - 5°50'04 Julian Calendar 1 July 137 BCE == Greg. Calendar 28 June 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

AUGUST 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 26 13	4♌49'48	11♏ 6	22♌27	8♌30	19♍20	10♈21	20♎44	14♌24	17°R 2	26°R 6	26°R51	27♈10	9♌50	n.a.	F 1
S 2	20 30 9	5°47'54	24°25	24° 3	9°45	20° 0	10°21	20°48	14°28	17♉ 1	26♓ 5	26♈50	27° 7	9°57	n.a.	S 2
S 3	20 34 6	6°46'01	8♐12	25°37	10°59	20°40	10°R21	20°51	14°31	16°59	26° 5	26°47	27° 4	10° 3	n.a.	S 3
M 4	20 38 3	7°44'09	22°29	27°10	12°14	21°19	10°21	20°55	14°35	16°58	26° 4	26°42	27° 0	10°10	n.a.	M 4
T 5	20 41 59	8°42'19	7♑13	28°42	13°28	21°59	10°21	20°58	14°39	16°56	26° 3	26°34	26°57	10°17	n.a.	T 5
W 6	20 45 56	9°40'31	22°19	0♍13	14°43	22°39	10°20	21° 2	14°43	16°55	26° 2	26°24	26°54	10°24	n.a.	W 6
T 7	20 49 52	10°38'45	7♒38	1°42	15°57	23°19	10°19	21° 5	14°46	16°53	26° 2	26°14	26°51	10°30	n.a.	T 7
F 8	20 53 49	11°37'00	22°58	3°10	17°12	23°59	10°18	21° 9	14°50	16°52	26° 1	26° 4	26°48	10°37	n.a.	F 8
S 9	20 57 45	12°35'17	8♓ 8	4°37	18°27	24°40	10°17	21°13	14°54	16°50	26° 0	25°55	26°45	10°44	n.a.	S 9
S 10	21 1 42	13°33'36	22°58	6° 3	19°41	25°20	10°16	21°17	14°58	16°49	25°59	25°49	26°41	10°50	n.a.	S 10
M11	21 5 38	14°31'58	7♈23	7°27	20°56	26° 0	10°14	21°21	15° 1	16°48	25°58	25°46	26°38	10°57	n.a.	M11
T 12	21 9 35	15°30'21	21°18	8°50	22°10	26°40	10°12	21°25	15° 5	16°46	25°58	25°D45	26°35	11° 4	n.a.	T 12
W13	21 13 32	16°28'47	4♉45	10°11	23°25	27°21	10°10	21°29	15° 9	16°45	25°57	25°45	26°32	11°11	n.a.	W13
T 14	21 17 28	17°27'15	17°47	11°32	24°40	28° 1	10° 8	21°33	15°13	16°44	25°56	25°R45	26°29	11°17	n.a.	T 14
F 15	21 21 25	18°25'46	0♊28	12°50	25°54	28°42	10° 6	21°38	15°16	16°42	25°55	25°44	26°26	11°24	n.a.	F 15
S 16	21 25 21	19°24'19	12°51	14° 7	27° 9	29°23	10° 3	21°42	15°20	16°41	25°54	25°42	26°22	11°31	n.a.	S 16
S 17	21 29 18	20°22'54	25° 1	15°23	28°24	0♎ 3	10° 1	21°46	15°24	16°40	25°53	25°37	26°19	11°38	n.a.	S 17
M18	21 33 14	21°21'31	7♋ 2	16°37	29°39	0°44	9°58	21°51	15°28	16°38	25°52	25°29	26°16	11°44	n.a.	M18
T 19	21 37 11	22°20'11	18°58	17°50	0♍53	1°25	9°54	21°56	15°32	16°37	25°52	25°19	26°13	11°51	n.a.	T 19
W20	21 41 7	23°18'52	0♌50	19° 0	2° 8	2° 6	9°51	22° 0	15°35	16°36	25°51	25° 8	26°10	11°58	n.a.	W20
T 21	21 45 4	24°17'36	12°42	20° 9	3°23	2°47	9°48	22° 5	15°39	16°35	25°50	24°56	26° 6	12° 4	n.a.	T 21
F 22	21 49 1	25°16'22	24°34	21°15	4°38	3°28	9°44	22°10	15°43	16°33	25°49	24°44	26° 3	12°11	n.a.	F 22
S 23	21 52 57	26°15'10	6♍29	22°20	5°52	4°10	9°40	22°15	15°46	16°32	25°48	24°34	26° 0	12°18	n.a.	S 23
S 24	21 56 54	27°14'00	18°27	23°22	7° 7	4°51	9°36	22°20	15°50	16°31	25°47	24°26	25°57	12°25	n.a.	S 24
M25	22 0 50	28°12'52	0♎30	24°22	8°22	5°32	9°32	22°25	15°54	16°30	25°46	24°21	25°54	12°31	n.a.	M25
T 26	22 4 47	29°11'46	12°42	25°19	9°37	6°14	9°27	22°30	15°58	16°29	25°45	24°18	25°51	12°38	n.a.	T 26
W27	22 8 43	0♍10'42	25° 4	26°14	10°51	6°55	9°23	22°35	16° 1	16°28	25°44	24°D17	25°47	12°45	n.a.	W27
T 28	22 12 40	1° 9'40	7♏39	27° 5	12° 6	7°37	9°18	22°40	16° 5	16°27	25°43	24°18	25°44	12°51	n.a.	T 28
F 29	22 16 36	2° 8'40	20°33	27°53	13°21	8°18	9°13	22°45	16° 9	16°26	25°42	24°19	25°41	12°58	n.a.	F 29
S 30	22 20 33	3° 7'42	3♐48	28°37	14°36	9° 0	9° 8	22°51	16°12	16°25	25°41	24°R20	25°38	13° 5	n.a.	S 30
S 31	22 24 29	4♍ 6'45	17♐27	29♍17	15♍50	9♎42	9♈ 2	22♎56	16♌16	16♉24	25♓40	24♈19	25♈35	13♌12	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n17	16s31	1s15	14n51	0n42	19n40	1n22	4n37	0n23	2n43	1s33	6s 1	2n21	17n22	0n42	22s35	0n 2	17s29	17s26	10n28	10n35	22n49		n.a.
S 2	19 2	21 21	2 20	14 13	0 35	19 20	1 23	4 21	0 22	2 43	1 33	6 3	2 20	17 21	0 42	22 35	0 2	17 30	17 27	10 28	10 34	22 47		n.a.
S 3	18 48	25 13	3 20	13 34	0 28	19 0	1 23	4 4	0 22	2 43	1 34	6 4	2 20	17 20	0 42	22 36	0 2	17 30	17 27	10 27	10 33	22 45		n.a.
M 4	18 33	27 39	4 9	12 55	0 21	18 40	1 24	3 48	0 21	2 42	1 34	6 6	2 20	17 19	0 42	22 36	0 2	17 31	17 27	10 25	10 31	22 43		n.a.
T 5	18 17	28 15	4 44	12 16	0 13	18 18	1 24	3 31	0 20	2 42	1 34	6 7	2 20	17 17	0 42	22 36	0 2	17 31	17 27	10 22	10 30	22 41		n.a.
W 6	18 2	26 46	5 0	11 37	0 6	17 57	1 24	3 15	0 19	2 41	1 34	6 9	2 19	17 16	0 42	22 36	0 1	17 32	17 28	10 18	10 29	22 39		n.a.
T 7	17 46	23 19	4 55	10 58	0s 2	17 35	1 25	2 58	0 19	2 41	1 35	6 10	2 19	17 15	0 42	22 37	0 1	17 32	17 28	10 14	10 28	22 37		n.a.
F 8	17 30	18 14	4 29	10 18	0 10	17 12	1 25	2 41	0 18	2 40	1 35	6 12	2 19	17 14	0 42	22 37	0 1	17 33	17 28	10 11	10 27	22 34		n.a.
S 9	17 13	12 4	3 44	9 39	0 18	16 49	1 25	2 24	0 17	2 40	1 35	6 14	2 19	17 13	0 42	22 37	0 1	17 33	17 28	10 7	10 26	22 32		n.a.
S 10	16 57	5 20	2 44	9 0	0 26	16 25	1 25	2 7	0 16	2 39	1 36	6 15	2 18	17 12	0 42	22 37	0 1	17 34	17 29	10 5	10 24	22 30		n.a.
M11	16 40	1n30	1 36	8 21	0 34	16 1	1 25	1 51	0 15	2 38	1 36	6 17	2 18	17 11	0 42	22 37	0 1	17 34	17 29	10 4	10 23	22 28		n.a.
T 12	16 22	8 2	0 24	7 42	0 42	15 37	1 25	1 34	0 15	2 37	1 36	6 19	2 18	17 10	0 42	22 37	0 1	17 35	17 29	10 4	10 22	22 26		n.a.
W13	16 5	14 0	0n48	7 3	0 51	15 12	1 25	1 17	0 14	2 36	1 36	6 21	2 18	17 9	0 42	22 38	0 1	17 36	17 29	10 4	10 21	22 24		n.a.
T 14	15 47	19 9	1 54	6 25	0 59	14 47	1 25	1 0	0 13	2 35	1 36	6 23	2 17	17 7	0 42	22 38	0 1	17 36	17 30	10 4	10 20	22 22		n.a.
F 15	15 29	23 18	2 53	5 47	1 7	14 21	1 24	0 43	0 12	2 34	1 37	6 24	2 17	17 6	0 42	22 38	0 1	17 37	17 30	10 3	10 19	22 20		n.a.
S 16	15 10	26 17	3 43	5 9	1 16	13 55	1 24	0 26	0 12	2 33	1 37	6 26	2 17	17 5	0 42	22 38	0 1	17 37	17 30	10 3	10 17	22 17		n.a.
S 17	14 52	27 58	4 21	4 32	1 24	13 28	1 24	0 9	0 11	2 31	1 37	6 28	2 17	17 4	0 42	22 38	0 1	17 38	17 30	10 1	10 16	22 15		n.a.
M18	14 33	28 19	4 47	3 55	1 33	13 2	1 23	0s 8	0 10	2 30	1 37	6 30	2 17	17 3	0 42	22 39	0 1	17 38	17 30	9 58	10 15	22 13		n.a.
T 19	14 14	27 19	5 1	3 19	1 41	12 34	1 23	0 26	0 9	2 28	1 38	6 32	2 16	17 2	0 42	22 39	0 1	17 39	17 31	9 54	10 14	22 11		n.a.
W20	13 54	25 6	5 1	2 44	1 49	12 7	1 22	0 43	0 9	2 27	1 38	6 34	2 16	17 1	0 42	22 39	0 1	17 39	17 31	9 50	10 13	22 9		n.a.
T 21	13 35	21 48	4 49	2 9	1 57	11 39	1 22	1 0	0 8	2 25	1 38	6 36	2 16	17 0	0 42	22 39	0 1	17 40	17 31	9 46	10 12	22 7		n.a.
F 22	13 15	17 37	4 23	1 35	2 6	11 11	1 21	1 17	0 7	2 24	1 38	6 38	2 16	16 58	0 42	22 39	0 1	17 41	17 31	9 41	10 10	22 4		n.a.
S 23	12 55	12 44	3 47	1 2	2 14	10 42	1 20	1 34	0 6	2 22	1 39	6 40	2 16	16 57	0 42	22 39	0 1	17 41	17 31	9 38	10 9	22 2		n.a.
S 24	12 34	7 22	2 59	0 30	2 22	10 13	1 19	1 52	0 6	2 20	1 39	6 42	2 15	16 56	0 42	22 40	0 1	17 42	17 32	9 35	10 8	22 0		n.a.
M25	12 14	1 41	2 4	0s 1	2 29	9 44	1 19	2 9	0 5	2 18	1 39	6 44	2 15	16 55	0 42	22 40	0 1	17 42	17 32	9 33	10 7	21 58		n.a.
T 26	11 53	4s 7	1 2	0 31	2 37	9 15	1 18	2 26	0 4	2 16	1 39	6 46	2 15	16 54	0 42	22 40	0 1	17 43	17 32	9 32	10 6	21 56		n.a.
W27	11 32	9 52	0s 4	0 59	2 44	8 45	1 17	2 43	0 4	2 14	1 39	6 48	2 15	16 53	0 42	22 40	0 1	17 43	17 32	9 31	10 5	21 53		n.a.
T 28	11 11	15 21	1 11	1 26	2 51	8 16	1 16	3 1	0 3	2 12	1 40	6 50	2 15	16 52	0 42	22 40	0 1	17 44	17 32	9 32	10 3	21 51		n.a.
F 29	10 50	20 17	2 16	1 52	2 58	7 46	1 14	3 18	0 2	2 10	1 40	6 52	2 14	16 51	0 42	22 40	0 1	17 44	17 32	9 32	10 2	21 49		n.a.
S 30	10 28	24 21	3 16	2 15	3 4	7 15	1 13	3 35	0 1	2 8	1 40	6 55	2 14	16 50	0 42	22 40	0 1	17 45	17 32	9 32	10 1	21 47		n.a.
S 31	10n 7	27s12	4s 7	2s37	3s10	6n45	1n12	3s52	0n 1	2n 6	1s40	6s57	2n14	16n49	0n42	22s41	0n 1	17s45	17s33	9n32	10n 0	21n44		n.a.

Julian Day Number = 1671596.5, Delta T = 03h20m15s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°57'00, Lahiri = - 5°49'59 Julian Calendar 1 Aug. 137 BCE == Greg. Calendar 29 July 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

SEPTEMBER 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 28 26	5♍ 5'51	1♉32	29♍54	17♍ 5	10♎24	8°R57	23♎ 1	16♌20	16°R23	25°R39	24°R16	25♈32	13♌18	n.a.	M 1
T 2	22 32 23	6° 4'58	16° 2	0♎25	18°20	11° 5	8♈51	23° 7	16°23	16♉22	25♓37	24♈11	25°28	13°25	n.a.	T 2
W 3	22 36 19	7° 4'07	0♒53	0°52	19°35	11°47	8°46	23°12	16°27	16°21	25°36	24° 5	25°25	13°32	n.a.	W 3
T 4	22 40 16	8° 3'18	16° 0	1°13	20°50	12°30	8°40	23°18	16°30	16°20	25°35	23°58	25°22	13°38	n.a.	T 4
F 5	22 44 12	9° 2'31	1♓12	1°28	22° 4	13°12	8°34	23°24	16°34	16°19	25°34	23°51	25°19	13°45	n.a.	F 5
S 6	22 48 9	10° 1'47	16°18	1°37	23°19	13°54	8°27	23°29	16°38	16°18	25°33	23°45	25°16	13°52	n.a.	S 6
S 7	22 52 5	11° 1'04	1♈11	1°R39	24°34	14°36	8°21	23°35	16°41	16°18	25°32	23°41	25°12	13°59	n.a.	S 7
M 8	22 56 2	12° 0'23	15°40	1°33	25°49	15°18	8°14	23°41	16°45	16°17	25°31	23°39	25° 9	14° 5	n.a.	M 8
T 9	22 59 58	12°59'45	29°44	1°20	27° 4	16° 1	8° 8	23°47	16°48	16°16	25°30	23°D39	25° 6	14°12	n.a.	T 9
W10	23 3 55	13°59'09	13♉19	1° 0	28°18	16°43	8° 1	23°53	16°52	16°15	25°29	23°40	25° 3	14°19	n.a.	W10
T 11	23 7 52	14°58'36	26°27	0°30	29°33	17°26	7°54	23°59	16°55	16°15	25°28	23°42	25° 0	14°25	n.a.	T 11
F 12	23 11 48	15°58'05	9♊12	29♍53	0♎48	18° 8	7°47	24° 5	16°58	16°14	25°26	23°43	24°57	14°32	n.a.	F 12
S 13	23 15 45	16°57'37	21°37	29° 8	2° 3	18°51	7°40	24°11	17° 2	16°14	25°25	23°R43	24°53	14°39	n.a.	S 13
S 14	23 19 41	17°57'11	3♋48	28°14	3°18	19°34	7°33	24°17	17° 5	16°13	25°24	23°42	24°50	14°46	n.a.	S 14
M15	23 23 38	18°56'47	15°47	27°14	4°32	20°17	7°26	24°23	17° 9	16°12	25°23	23°39	24°47	14°52	n.a.	M15
T 16	23 27 34	19°56'26	27°41	26° 8	5°47	21° 0	7°18	24°29	17°12	16°12	25°22	23°34	24°44	14°59	n.a.	T 16
W17	23 31 31	20°56'07	9♌32	24°58	7° 2	21°42	7°11	24°36	17°15	16°11	25°21	23°29	24°41	15° 6	n.a.	W17
T 18	23 35 27	21°55'50	21°24	23°44	8°17	22°25	7° 3	24°42	17°18	16°11	25°20	23°23	24°37	15°12	n.a.	T 18
F 19	23 39 24	22°55'36	3♍19	22°30	9°32	23° 9	6°55	24°48	17°22	16°11	25°18	23°17	24°34	15°19	n.a.	F 19
S 20	23 43 20	23°55'23	15°20	21°17	10°46	23°52	6°48	24°55	17°25	16°10	25°17	23°12	24°31	15°26	n.a.	S 20
S 21	23 47 17	24°55'13	27°27	20° 8	12° 1	24°35	6°40	25° 1	17°28	16°10	25°16	23° 9	24°28	15°33	n.a.	S 21
M22	23 51 14	25°55'05	9♎43	19° 4	13°16	25°18	6°32	25° 7	17°31	16°10	25°15	23° 6	24°25	15°39	n.a.	M22
T 23	23 55 10	26°54'58	22° 9	18° 8	14°31	26° 2	6°24	25°14	17°34	16° 9	25°14	23°D 6	24°22	15°46	n.a.	T 23
W24	23 59 7	27°54'54	4♏45	17°21	15°45	26°45	6°16	25°20	17°38	16° 9	25°13	23° 6	24°18	15°53	n.a.	W24
T 25	0 3 3	28°54'52	17°34	16°44	17° 0	27°29	6° 8	25°27	17°41	16° 9	25°11	23° 7	24°15	15°59	n.a.	T 25
F 26	0 7 0	29°54'51	0♐38	16°18	18°15	28°12	6° 0	25°33	17°44	16° 9	25°10	23° 9	24°12	16° 6	n.a.	F 26
S 27	0 10 56	0♎54'53	13°58	16° 4	19°30	28°56	5°52	25°40	17°47	16° 8	25° 9	23°10	24° 9	16°13	n.a.	S 27
S 28	0 14 53	1°54'56	27°35	16°D 1	20°45	29°39	5°44	25°47	17°50	16° 8	25° 8	23°R11	24° 6	16°20	n.a.	S 28
M29	0 18 49	2°55'00	11♉32	16° 9	21°59	0♏23	5°36	25°53	17°53	16° 8	25° 7	23°11	24° 3	16°26	n.a.	M29
T 30	0 22 46	3♎55'07	25♉46	16♍28	23♎14	1♏ 7	5♈27	26♎ 0	17♌56	16♉ 8	25♓ 6	23♈10	23♈59	16♌33	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n45	28s26	4s44	2s57	3s16	6n14	1n11	4s10	0s 0	2n 3	1s40	6s59	2n14	16n47	0n42	22s41	0n 1	17s46	17s33	9n31	9n59	21n42		n.a.
T 2	9 23	27 47	5 5	3 14	3 21	5 44	1 9	4 27	0 1	2 1	1 40	7 1	2 14	16 46	0 42	22 41	0 1	17 47	17 33	9 29	9 58	21 40		n.a.
W 3	9 1	25 9	5 5	3 29	3 25	5 13	1 8	4 44	0 2	1 58	1 41	7 3	2 13	16 45	0 42	22 41	0 1	17 47	17 33	9 27	9 56	21 38		n.a.
T 4	8 39	20 45	4 45	3 40	3 29	4 41	1 6	5 1	0 2	1 56	1 41	7 6	2 13	16 44	0 42	22 41	0 1	17 48	17 33	9 24	9 55	21 35		n.a.
F 5	8 16	14 59	4 5	3 49	3 32	4 10	1 5	5 19	0 3	1 53	1 41	7 8	2 13	16 43	0 42	22 41	0 1	17 48	17 33	9 22	9 54	21 33		n.a.
S 6	7 54	8 21	3 8	3 54	3 33	3 39	1 3	5 36	0 4	1 51	1 41	7 10	2 13	16 42	0 42	22 41	0 1	17 49	17 33	9 19	9 53	21 31		n.a.
S 7	7 31	1 20	1 59	3 56	3 34	3 7	1 2	5 53	0 4	1 48	1 41	7 12	2 13	16 41	0 42	22 41	0 1	17 49	17 33	9 18	9 52	21 29		n.a.
M 8	7 8	5n35	0 43	3 53	3 34	2 36	1 0	6 10	0 5	1 45	1 41	7 15	2 13	16 40	0 42	22 41	0 1	17 50	17 33	9 17	9 51	21 26		n.a.
T 9	6 45	12 1	0n33	3 47	3 32	2 4	0 58	6 28	0 6	1 43	1 41	7 17	2 12	16 39	0 42	22 42	0 1	17 50	17 34	9 17	9 49	21 24		n.a.
W10	6 22	17 41	1 45	3 35	3 29	1 33	0 56	6 45	0 6	1 40	1 41	7 19	2 12	16 38	0 42	22 42	0 1	17 51	17 34	9 18	9 48	21 22		n.a.
T 11	5 59	22 19	2 49	3 19	3 24	1 1	0 55	7 2	0 7	1 37	1 42	7 22	2 12	16 37	0 42	22 42	0 1	17 51	17 34	9 18	9 47	21 20		n.a.
F 12	5 36	25 45	3 42	2 58	3 18	0 29	0 53	7 19	0 8	1 34	1 42	7 24	2 12	16 36	0 42	22 42	0 1	17 52	17 34	9 19	9 46	21 17		n.a.
S 13	5 12	27 50	4 24	2 32	3 9	0s 3	0 51	7 36	0 9	1 31	1 42	7 26	2 12	16 35	0 42	22 42	0 1	17 52	17 34	9 19	9 45	21 15		n.a.
S 14	4 49	28 32	4 53	2 2	2 59	0 35	0 49	7 53	0 9	1 28	1 42	7 29	2 12	16 34	0 42	22 42	0 1	17 53	17 34	9 18	9 44	21 13		n.a.
M15	4 25	27 52	5 8	1 26	2 47	1 7	0 47	8 10	0 10	1 25	1 42	7 31	2 12	16 33	0 42	22 42	0 1	17 53	17 34	9 17	9 42	21 10		n.a.
T 16	4 2	25 56	5 10	0 47	2 33	1 38	0 45	8 27	0 11	1 22	1 42	7 34	2 11	16 32	0 42	22 42	0 1	17 54	17 34	9 15	9 41	21 8		n.a.
W17	3 38	22 52	4 59	0 4	2 17	2 10	0 43	8 44	0 11	1 19	1 42	7 36	2 11	16 31	0 42	22 42	0 1	17 54	17 34	9 13	9 40	21 6		n.a.
T 18	3 14	18 52	4 35	0n41	2 0	2 42	0 41	9 1	0 12	1 16	1 42	7 39	2 11	16 30	0 42	22 42	0 1	17 55	17 34	9 11	9 39	21 3		n.a.
F 19	2 50	14 6	3 59	1 28	1 41	3 14	0 38	9 17	0 13	1 13	1 42	7 41	2 11	16 29	0 42	22 42	0 1	17 55	17 34	9 9	9 38	21 1		n.a.
S 20	2 26	8 47	3 12	2 15	1 21	3 45	0 36	9 34	0 13	1 10	1 42	7 44	2 11	16 28	0 42	22 42	0 1	17 56	17 34	9 7	9 36	20 59		n.a.
S 21	2 2	3 6	2 16	3 2	1 0	4 17	0 34	9 51	0 14	1 7	1 42	7 46	2 11	16 27	0 42	22 42	0 1	17 56	17 34	9 6	9 35	20 56		n.a.
M22	1 38	2s47	1 13	3 46	0 40	4 49	0 32	10 8	0 15	1 4	1 42	7 48	2 11	16 26	0 42	22 43	0 1	17 57	17 34	9 5	9 34	20 54		n.a.
T 23	1 14	8 38	0 5	4 27	0 19	5 20	0 29	10 24	0 15	1 0	1 42	7 51	2 10	16 25	0 42	22 43	0 1	17 57	17 34	9 5	9 33	20 51		n.a.
W24	0 50	14 15	1s 4	5 3	0n 0	5 51	0 27	10 41	0 16	0 57	1 42	7 53	2 10	16 24	0 42	22 43	0 1	17 57	17 34	9 5	9 32	20 49		n.a.
T 25	0 26	19 21	2 11	5 35	0 19	6 23	0 25	10 57	0 17	0 54	1 42	7 56	2 10	16 23	0 42	22 43	0 1	17 58	17 34	9 5	9 31	20 47		n.a.
F 26	0 2	23 39	3 12	6 2	0 37	6 54	0 22	11 14	0 17	0 51	1 42	7 58	2 10	16 22	0 43	22 43	0 1	17 58	17 34	9 6	9 29	20 44		n.a.
S 27	0s22	26 47	4 4	6 22	0 53	7 25	0 20	11 30	0 18	0 48	1 42	8 1	2 10	16 21	0 43	22 43	0 1	17 59	17 34	9 6	9 28	20 42		n.a.
S 28	0 46	28 26	4 44	6 37	1 8	7 55	0 17	11 46	0 19	0 44	1 42	8 4	2 10	16 20	0 43	22 43	0 1	17 59	17 34	9 7	9 27	20 40		n.a.
M29	1 10	28 20	5 9	6 46	1 21	8 26	0 15	12 2	0 19	0 41	1 42	8 6	2 10	16 19	0 43	22 43	0 1	18 0	17 34	9 7	9 26	20 37		n.a.
T 30	1s34	26s23	5s15	6n49	1n32	8s56	0n12	12s18	0s20	0n38	1s42	8s 9	2n10	16n19	0n43	22s43	0n 1	18s 0	17s34	9n 6	9n25	20n35		n.a.

Julian Day Number = 1671627.5, Delta T = 03h20m15s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'56, Lahiri = - 5°49'55 Julian Calendar 1 Sept. 137 BCE == Greg. Calendar 29 Aug. 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

OCTOBER 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 26 43	4♎55'15	10♒16	16♍56	24♎29	1♏51	5°R19	26♎ 7	17♌58	16°D 8	25°R 5	23°R 8	23♈56	16♌40	n.a.	W 1
T 2	0 30 39	5°55'24	24°59	17°34	25°44	2°35	5♈11	26°14	18° 1	16♉ 8	25♓ 3	23♈ 6	23°53	16°46	n.a.	T 2
F 3	0 34 36	6°55'35	9♓47	18°21	26°58	3°19	5° 3	26°20	18° 4	16° 8	25° 2	23° 4	23°50	16°53	n.a.	F 3
S 4	0 38 32	7°55'48	24°34	19°14	28°13	4° 3	4°55	26°27	18° 7	16° 8	25° 1	23° 2	23°47	17° 0	n.a.	S 4
S 5	0 42 29	8°56'03	9♈12	20°14	29°28	4°47	4°47	26°34	18°10	16° 8	25° 0	23° 1	23°43	17° 7	n.a.	S 5
M 6	0 46 25	9°56'20	23°34	21°20	0♏42	5°31	4°39	26°41	18°12	16° 9	24°59	23°D 0	23°40	17°13	n.a.	M 6
T 7	0 50 22	10°56'38	7♉35	22°31	1°57	6°15	4°31	26°48	18°15	16° 9	24°58	23° 1	23°37	17°20	n.a.	T 7
W 8	0 54 18	11°56'59	21°13	23°46	3°12	6°59	4°23	26°55	18°18	16° 9	24°57	23° 1	23°34	17°27	n.a.	W 8
T 9	0 58 15	12°57'21	4♊27	25° 5	4°26	7°44	4°15	27° 2	18°20	16° 9	24°56	23° 2	23°31	17°33	n.a.	T 9
F 10	1 2 12	13°57'46	17°17	26°27	5°41	8°28	4° 7	27° 8	18°23	16°10	24°55	23° 3	23°28	17°40	n.a.	F 10
S 11	1 6 8	14°58'13	29°47	27°51	6°56	9°13	3°59	27°15	18°25	16°10	24°54	23° 4	23°24	17°47	n.a.	S 11
S 12	1 10 5	15°58'41	12♋ 0	29°18	8°10	9°57	3°51	27°22	18°28	16°10	24°52	23°R 4	23°21	17°54	n.a.	S 12
M13	1 14 1	16°59'12	24° 2	0♎46	9°25	10°42	3°43	27°29	18°30	16°11	24°51	23° 4	23°18	18° 0	n.a.	M13
T 14	1 17 58	17°59'44	5♌56	2°16	10°40	11°26	3°35	27°36	18°32	16°11	24°50	23° 4	23°15	18° 7	n.a.	T 14
W15	1 21 54	19° 0'19	17°47	3°48	11°54	12°11	3°28	27°43	18°35	16°12	24°49	23° 4	23°12	18°14	n.a.	W15
T 16	1 25 51	20° 0'55	29°40	5°20	13° 9	12°56	3°20	27°50	18°37	16°12	24°48	23° 3	23° 9	18°20	n.a.	T 16
F 17	1 29 47	21° 1'33	11♍38	6°53	14°24	13°41	3°13	27°57	18°39	16°13	24°47	23° 3	23° 5	18°27	n.a.	F 17
S 18	1 33 44	22° 2'13	23°45	8°26	15°38	14°26	3° 6	28° 4	18°41	16°13	24°46	23° 3	23° 2	18°34	n.a.	S 18
S 19	1 37 41	23° 2'54	6♎ 2	10° 0	16°53	15°11	2°58	28°11	18°43	16°14	24°45	23°D 2	22°59	18°41	n.a.	S 19
M20	1 41 37	24° 3'37	18°33	11°35	18° 7	15°56	2°51	28°19	18°46	16°14	24°44	23°R 3	22°56	18°47	n.a.	M20
T 21	1 45 34	25° 4'22	1♏17	13° 9	19°22	16°41	2°44	28°26	18°48	16°15	24°43	23° 2	22°53	18°54	n.a.	T 21
W22	1 49 30	26° 5'08	14°16	14°44	20°37	17°26	2°37	28°33	18°50	16°16	24°42	23° 2	22°49	19° 1	n.a.	W22
T 23	1 53 27	27° 5'56	27°28	16°19	21°51	18°11	2°31	28°40	18°52	16°16	24°41	23° 2	22°46	19° 7	n.a.	T 23
F 24	1 57 23	28° 6'45	10♐53	17°54	23° 6	18°56	2°24	28°47	18°53	16°17	24°40	23° 1	22°43	19°14	n.a.	F 24
S 25	2 1 20	29° 7'35	24°31	19°29	24°20	19°41	2°17	28°54	18°55	16°18	24°40	23° 1	22°40	19°21	n.a.	S 25
S 26	2 5 16	0♏ 8'26	8♑20	21° 4	25°35	20°27	2°11	29° 1	18°57	16°19	24°39	23° 0	22°37	19°27	n.a.	S 26
M27	2 9 13	1° 9'18	22°18	22°39	26°49	21°12	2° 5	29° 8	18°59	16°20	24°38	23° 0	22°34	19°34	n.a.	M27
T 28	2 13 10	2°10'11	6♒25	24°14	28° 4	21°58	1°59	29°15	19° 1	16°21	24°37	23°D 0	22°30	19°41	n.a.	T 28
W29	2 17 6	3°11'05	20°39	25°48	29°18	22°43	1°53	29°22	19° 2	16°21	24°36	23° 0	22°27	19°48	n.a.	W29
T 30	2 21 3	4°12'00	4♓57	27°23	0♐33	23°29	1°47	29°29	19° 4	16°22	24°35	23° 1	22°24	19°54	n.a.	T 30
F 31	2 24 59	5♏12'56	19♓17	28♎58	1♐47	24♏14	1♈42	29♎36	19♌ 5	16♉23	24♓34	23♈ 2	22♈21	20♌ 1	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat
W 1	1s59	22s42	5s 1	6n46	1n42	9s27	0n10	12s34	0s21	0n35	1s42	8s11	2n10	16n18	0n43	22s43	0n 1	18s 0	17s34	9n 5		9n23		20n32			n.a.
T 2	2 23	17 33	4 28	6 39	1 50	9 57	0 7	12 50	0 21	0 31	1 42	8 14	2 10	16 17	0 43	22 43	0 1	18 1	17 33	9 5		9 22		20 30			n.a.
F 3	2 47	11 19	3 37	6 27	1 56	10 26	0 5	13 6	0 22	0 28	1 42	8 16	2 9	16 16	0 43	22 43	0 1	18 1	17 33	9 4		9 21		20 28			n.a.
S 4	3 11	4 29	2 31	6 10	2 2	10 56	0 2	13 22	0 23	0 25	1 42	8 19	2 9	16 15	0 43	22 43	0 1	18 2	17 33	9 3		9 20		20 25			n.a.
S 5	3 35	2n32	1 16	5 50	2 6	11 25	0s 1	13 38	0 23	0 22	1 42	8 21	2 9	16 14	0 43	22 43	0 1	18 2	17 33	9 3		9 19		20 23			n.a.
M 6	3 59	9 18	0n 3	5 26	2 8	11 54	0 3	13 53	0 24	0 19	1 42	8 24	2 9	16 14	0 43	22 43	0 1	18 2	17 33	9 3		9 18		20 20			n.a.
T 7	4 23	15 27	1 20	4 59	2 10	12 23	0 6	14 9	0 25	0 16	1 42	8 27	2 9	16 13	0 43	22 43	0 1	18 3	17 33	9 3		9 16		20 18			n.a.
W 8	4 47	20 41	2 30	4 30	2 11	12 51	0 8	14 24	0 25	0 12	1 42	8 29	2 9	16 12	0 43	22 43	0 1	18 3	17 33	9 3		9 15		20 15			n.a.
T 9	5 10	24 43	3 30	3 58	2 10	13 19	0 11	14 39	0 26	0 9	1 41	8 32	2 9	16 11	0 43	22 43	0 1	18 3	17 33	9 3		9 14		20 13			n.a.
F 10	5 34	27 22	4 17	3 24	2 9	13 47	0 14	14 54	0 26	0 6	1 41	8 34	2 9	16 10	0 43	22 43	0 1	18 4	17 33	9 4		9 13		20 10			n.a.
S 11	5 58	28 34	4 51	2 49	2 8	14 14	0 16	15 9	0 27	0 3	1 41	8 37	2 9	16 10	0 43	22 43	0 1	18 4	17 32	9 4		9 12		20 8			n.a.
S 12	6 21	28 20	5 11	2 11	2 5	14 41	0 19	15 24	0 28	0 0	1 41	8 39	2 9	16 9	0 43	22 43	0 1	18 4	17 32	9 4		9 10		20 5			n.a.
M13	6 45	26 45	5 17	1 33	2 2	15 8	0 22	15 39	0 28	0s 3	1 41	8 42	2 9	16 8	0 43	22 43	0 1	18 4	17 32	9 4		9 9		20 3			n.a.
T 14	7 8	23 59	5 9	0 54	1 59	15 34	0 24	15 54	0 29	0 6	1 41	8 45	2 9	16 8	0 43	22 43	0 1	18 5	17 32	9 4		9 8		20 1			n.a.
W15	7 32	20 14	4 48	0 13	1 54	16 0	0 27	16 8	0 30	0 9	1 41	8 47	2 9	16 7	0 43	22 43	0 1	18 5	17 32	9 4		9 7		19 58			n.a.
T 16	7 55	15 41	4 15	0s28	1 50	16 26	0 29	16 23	0 30	0 11	1 40	8 50	2 8	16 6	0 43	22 43	0 1	18 5	17 32	9 4		9 6		19 56			n.a.
F 17	8 18	10 31	3 30	1 9	1 45	16 51	0 32	16 37	0 31	0 14	1 40	8 52	2 8	16 6	0 43	22 42	0 1	18 6	17 32	9 3		9 4		19 53			n.a.
S 18	8 41	4 53	2 35	1 51	1 40	17 16	0 35	16 51	0 31	0 17	1 40	8 55	2 8	16 5	0 43	22 42	0 1	18 6	17 31	9 3		9 3		19 51			n.a.
S 19	9 4	1s 0	1 33	2 33	1 35	17 40	0 37	17 5	0 32	0 20	1 40	8 57	2 8	16 4	0 43	22 42	0 1	18 6	17 31	9 3		9 2		19 48			n.a.
M20	9 26	6 58	0 25	3 16	1 29	18 4	0 40	17 19	0 32	0 22	1 40	9 0	2 8	16 4	0 43	22 42	0 1	18 6	17 31	9 3		9 1		19 46			n.a.
T 21	9 49	12 46	0s46	3 59	1 23	18 27	0 42	17 32	0 33	0 25	1 40	9 3	2 8	16 3	0 43	22 42	0 1	18 6	17 31	9 3		9 0		19 43			n.a.
W22	10 11	18 8	1 55	4 41	1 17	18 50	0 45	17 46	0 34	0 28	1 39	9 5	2 8	16 2	0 43	22 42	0 0	18 7	17 31	9 3		8 58		19 40			n.a.
T 23	10 33	22 44	3 0	5 24	1 11	19 12	0 47	17 59	0 34	0 30	1 39	9 8	2 8	16 2	0 43	22 42	0 0	18 7	17 30	9 3		8 57		19 38			n.a.
F 24	10 55	26 13	3 55	6 6	1 5	19 34	0 50	18 13	0 35	0 33	1 39	9 10	2 8	16 1	0 44	22 42	0 0	18 7	17 30	9 3		8 56		19 35			n.a.
S 25	11 17	28 14	4 39	6 49	0 58	19 55	0 52	18 26	0 35	0 35	1 39	9 13	2 8	16 1	0 44	22 42	0 0	18 7	17 30	9 3		8 55		19 33			n.a.
S 26	11 39	28 33	5 6	7 31	0 52	20 16	0 55	18 38	0 36	0 37	1 38	9 15	2 8	16 0	0 44	22 42	0 0	18 7	17 30	9 2		8 54		19 30			n.a.
M27	12 1	27 3	5 17	8 13	0 45	20 36	0 57	18 51	0 37	0 40	1 38	9 18	2 8	16 0	0 44	22 42	0 0	18 8	17 30	9 2		8 53		19 28			n.a.
T 28	12 22	23 51	5 8	8 54	0 38	20 56	1 0	19 4	0 37	0 42	1 38	9 20	2 8	15 59	0 44	22 42	0 0	18 8	17 29	9 2		8 51		19 25			n.a.
W29	12 43	19 12	4 41	9 36	0 32	21 15	1 2	19 16	0 38	0 44	1 38	9 23	2 8	15 59	0 44	22 42	0 0	18 8	17 29	9 2		8 50		19 23			n.a.
T 30	13 4	13 27	3 56	10 16	0 25	21 33	1 4	19 28	0 38	0 46	1 37	9 25	2 8	15 58	0 44	22 41	0 0	18 8	17 29	9 3		8 49		19 20			n.a.
F 31	13s25	6s59	2s56	10s57	0n18	21s51	1s 7	19s40	0s39	0s48	1s37	9s28	2n 8	15n58	0n44	22s41	0n 0	18s 8	17s29	9n 3		8n48		19n18			n.a.

Julian Day Number = 1671657.5, Delta T = 03h20m14s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'52, Lahiri = - 5°49'51 Julian Calendar 1 Oct. 137 BCE == Greg. Calendar 28 Sept. 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

NOVEMBER 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 28 56	6♏13'52	3♈34	0♏32	3♐ 2	25♏ 0	1°R36	29♎43	19♌ 7	16♑24	24°R33	23♈ 3	22♈18	20♌ 8	n.a.	S 1
S 2	2 32 52	7°14'50	17°45	2° 7	4°16	25°45	1♈31	29°50	19° 8	16°26	24♓33	23°R 3	22°14	20°14	n.a.	S 2
M 3	2 36 49	8°15'49	1♉46	3°41	5°30	26°31	1°26	29°57	19°10	16°27	24°32	23° 3	22°11	20°21	n.a.	M 3
T 4	2 40 45	9°16'48	15°32	5°16	6°45	27°17	1°21	0♏ 4	19°11	16°28	24°31	23° 2	22° 8	20°28	n.a.	T 4
W 5	2 44 42	10°17'49	29° 1	6°50	7°59	28° 3	1°16	0°11	19°12	16°29	24°30	23° 0	22° 5	20°35	n.a.	W 5
T 6	2 48 39	11°18'51	12♊11	8°24	9°14	28°48	1°12	0°18	19°13	16°30	24°30	22°58	22° 2	20°41	n.a.	T 6
F 7	2 52 35	12°19'54	25° 1	9°59	10°28	29°34	1° 7	0°25	19°15	16°31	24°29	22°55	21°59	20°48	n.a.	F 7
S 8	2 56 32	13°20'59	7♋33	11°33	11°42	0♐20	1° 3	0°32	19°16	16°32	24°28	22°52	21°55	20°55	n.a.	S 8
S 9	3 0 28	14°22'04	19°49	13° 7	12°57	1° 6	0°59	0°39	19°17	16°34	24°27	22°49	21°52	21° 1	n.a.	S 9
M10	3 4 25	15°23'10	1♌53	14°42	14°11	1°52	0°55	0°46	19°18	16°35	24°27	22°47	21°49	21° 8	n.a.	M10
T 11	3 8 21	16°24'18	13°47	16°16	15°25	2°38	0°51	0°53	19°19	16°36	24°26	22°D46	21°46	21°15	n.a.	T 11
W12	3 12 18	17°25'26	25°39	17°50	16°39	3°25	0°48	1° 0	19°20	16°38	24°25	22°47	21°43	21°22	n.a.	W12
T 13	3 16 14	18°26'35	7♍31	19°25	17°54	4°11	0°45	1° 7	19°21	16°39	24°25	22°48	21°40	21°28	n.a.	T 13
F 14	3 20 11	19°27'46	19°30	21° 0	19° 8	4°57	0°42	1°14	19°21	16°40	24°24	22°50	21°36	21°35	n.a.	F 14
S 15	3 24 8	20°28'57	1♎39	22°34	20°22	5°43	0°39	1°20	19°22	16°42	24°24	22°51	21°33	21°42	n.a.	S 15
S 16	3 28 4	21°30'09	14° 4	24° 9	21°36	6°29	0°36	1°27	19°23	16°43	24°23	22°53	21°30	21°48	n.a.	S 16
M17	3 32 1	22°31'22	26°45	25°44	22°50	7°16	0°34	1°34	19°23	16°45	24°23	22°R53	21°27	21°55	n.a.	M17
T 18	3 35 57	23°32'35	9♏46	27°19	24° 4	8° 2	0°32	1°41	19°24	16°46	24°22	22°52	21°24	22° 2	n.a.	T 18
W19	3 39 54	24°33'49	23° 7	28°54	25°18	8°49	0°30	1°47	19°24	16°48	24°22	22°49	21°20	22° 8	n.a.	W19
T 20	3 43 50	25°35'04	6♐46	0♐30	26°33	9°35	0°28	1°54	19°25	16°50	24°21	22°44	21°17	22°15	n.a.	T 20
F 21	3 47 47	26°36'19	20°40	2° 6	27°47	10°22	0°26	2° 1	19°25	16°51	24°21	22°39	21°14	22°22	n.a.	F 21
S 22	3 51 43	27°37'34	4♑46	3°41	29° 1	11° 8	0°25	2° 7	19°26	16°53	24°20	22°33	21°11	22°29	n.a.	S 22
S 23	3 55 40	28°38'50	18°59	5°17	0♑15	11°55	0°23	2°14	19°26	16°54	24°20	22°28	21° 8	22°35	n.a.	S 23
M24	3 59 37	29°40'05	3♒14	6°53	1°29	12°41	0°22	2°21	19°26	16°56	24°19	22°24	21° 5	22°42	n.a.	M24
T 25	4 3 33	0♐41'21	17°28	8°30	2°42	13°28	0°22	2°27	19°26	16°58	24°19	22°21	21° 1	22°49	n.a.	T 25
W26	4 7 30	1°42'36	1♓39	10° 6	3°56	14°15	0°21	2°34	19°26	16°59	24°19	22°D20	20°58	22°55	n.a.	W26
T 27	4 11 26	2°43'51	15°43	11°43	5°10	15° 1	0°21	2°40	19°R26	17° 1	24°18	22°21	20°55	23° 2	n.a.	T 27
F 28	4 15 23	3°45'06	29°41	13°19	6°24	15°48	0°D21	2°46	19°26	17° 3	24°18	22°22	20°52	23° 9	n.a.	F 28
S 29	4 19 19	4°46'20	13♈32	14°56	7°38	16°35	0°21	2°53	19°26	17° 5	24°18	22°24	20°49	23°15	n.a.	S 29
S 30	4 23 16	5♐47'35	27♈14	16♐33	8♑52	17♐21	0♈21	2♏59	19♌26	17♑ 7	24♓17	22°R24	20♈46	23♌22	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s45	0s11	1s46	11s37	0n12	22s 8	1s 9	19s52	0s39	0s50	1s37	9s30	2n 8	15n57	0n44	22s41	0n 0	18s 8	17s28	9n 3	8n47	19n15		n.a.
S 2	14 5	6n36	0 29	12 16	0 5	22 24	1 11	20 4	0 40	0 52	1 37	9 33	2 8	15 57	0 44	22 41	0 0	18 8	17 28	9 4	8 45	19 12		n.a.
M 3	14 25	12 58	0n48	12 55	0s 2	22 40	1 13	20 15	0 40	0 54	1 36	9 35	2 8	15 57	0 44	22 41	0 0	18 8	17 28	9 4	8 44	19 10		n.a.
T 4	14 45	18 36	2 1	13 33	0 8	22 56	1 16	20 26	0 41	0 55	1 36	9 38	2 8	15 56	0 44	22 41	0 0	18 8	17 28	9 3	8 43	19 7		n.a.
W 5	15 5	23 11	3 6	14 11	0 15	23 10	1 18	20 37	0 41	0 57	1 36	9 40	2 8	15 56	0 44	22 41	0 0	18 8	17 27	9 3	8 42	19 5		n.a.
T 6	15 24	26 27	3 59	14 48	0 21	23 24	1 20	20 48	0 42	0 59	1 36	9 43	2 8	15 55	0 44	22 41	0 0	18 9	17 27	9 2	8 41	19 2		n.a.
F 7	15 43	28 15	4 38	15 25	0 28	23 37	1 22	20 59	0 42	1 0	1 35	9 45	2 8	15 55	0 44	22 40	0 0	18 9	17 27	9 0	8 39	18 59		n.a.
S 8	16 2	28 33	5 4	16 1	0 34	23 50	1 24	21 9	0 43	1 2	1 35	9 48	2 8	15 55	0 44	22 40	0 0	18 9	17 26	8 59	8 38	18 57		n.a.
S 9	16 20	27 25	5 14	16 36	0 40	24 2	1 26	21 19	0 43	1 3	1 35	9 50	2 8	15 55	0 44	22 40	0 0	18 9	17 26	8 58	8 37	18 54		n.a.
M10	16 38	25 1	5 11	17 10	0 46	24 13	1 28	21 29	0 44	1 4	1 34	9 52	2 8	15 54	0 44	22 40	0 0	18 9	17 26	8 58	8 36	18 52		n.a.
T 11	16 56	21 33	4 54	17 44	0 52	24 23	1 29	21 39	0 44	1 5	1 34	9 55	2 8	15 54	0 44	22 40	0 0	18 9	17 26	8 57	8 35	18 49		n.a.
W12	17 14	17 15	4 24	18 17	0 58	24 33	1 31	21 49	0 45	1 6	1 34	9 57	2 8	15 54	0 44	22 40	0 0	18 9	17 25	8 57	8 33	18 46		n.a.
T 13	17 31	12 18	3 44	18 49	1 4	24 42	1 33	21 58	0 45	1 7	1 33	10 0	2 8	15 54	0 44	22 40	0 0	18 9	17 25	8 58	8 32	18 44		n.a.
F 14	17 48	6 51	2 53	19 20	1 10	24 50	1 35	22 7	0 46	1 8	1 33	10 2	2 8	15 53	0 44	22 39	0 0	18 9	17 25	8 59	8 31	18 41		n.a.
S 15	18 4	1 4	1 54	19 50	1 15	24 57	1 36	22 16	0 46	1 9	1 33	10 4	2 8	15 53	0 44	22 39	0 0	18 8	17 24	8 59	8 30	18 38		n.a.
S 16	18 21	4s52	0 48	20 19	1 20	25 4	1 38	22 25	0 47	1 10	1 32	10 7	2 8	15 53	0 45	22 39	0 0	18 8	17 24	9 0	8 29	18 36		n.a.
M17	18 37	10 46	0s21	20 48	1 25	25 10	1 39	22 33	0 47	1 11	1 32	10 9	2 8	15 53	0 45	22 39	0 0	18 8	17 24	9 0	8 27	18 33		n.a.
T 18	18 52	16 21	1 31	21 15	1 30	25 15	1 41	22 41	0 48	1 11	1 32	10 11	2 8	15 53	0 45	22 39	0 0	18 8	17 23	8 59	8 26	18 30		n.a.
W19	19 8	21 18	2 38	21 41	1 35	25 20	1 42	22 49	0 48	1 12	1 31	10 14	2 8	15 53	0 45	22 39	0 0	18 8	17 23	8 58	8 25	18 28		n.a.
T 20	19 23	25 15	3 37	22 6	1 39	25 23	1 43	22 57	0 49	1 12	1 31	10 16	2 8	15 52	0 45	22 38	0 0	18 8	17 23	8 57	8 24	18 25		n.a.
F 21	19 37	27 46	4 24	22 30	1 43	25 26	1 44	23 4	0 49	1 13	1 31	10 18	2 8	15 52	0 45	22 38	0 0	18 8	17 22	8 55	8 23	18 22		n.a.
S 22	19 51	28 33	4 56	22 53	1 47	25 28	1 45	23 11	0 50	1 13	1 30	10 20	2 9	15 52	0 45	22 38	0 0	18 8	17 22	8 52	8 21	18 20		n.a.
S 23	20 5	27 28	5 10	23 15	1 51	25 29	1 47	23 18	0 50	1 13	1 30	10 23	2 9	15 52	0 45	22 38	0 0	18 8	17 22	8 50	8 20	18 17		n.a.
M24	20 19	24 36	5 5	23 35	1 54	25 30	1 48	23 25	0 50	1 13	1 30	10 25	2 9	15 52	0 45	22 38	0 0	18 7	17 21	8 49	8 19	18 14		n.a.
T 25	20 32	20 14	4 41	23 54	1 57	25 30	1 48	23 31	0 51	1 13	1 29	10 27	2 9	15 52	0 45	22 37	0 0	18 7	17 21	8 48	8 18	18 12		n.a.
W26	20 44	14 45	4 1	24 12	2 0	25 29	1 49	23 37	0 51	1 13	1 29	10 29	2 9	15 52	0 45	22 37	0 0	18 7	17 21	8 48	8 17	18 9		n.a.
T 27	20 57	8 32	3 6	24 28	2 3	25 27	1 50	23 43	0 52	1 13	1 29	10 31	2 9	15 52	0 45	22 37	0 0	18 7	17 20	8 48	8 15	18 6		n.a.
F 28	21 9	1 57	2 0	24 43	2 5	25 24	1 51	23 49	0 52	1 13	1 28	10 33	2 9	15 52	0 45	22 37	0 0	18 7	17 20	8 48	8 14	18 4		n.a.
S 29	21 20	4n40	0 48	24 57	2 6	25 21	1 51	23 54	0 53	1 12	1 28	10 36	2 9	15 52	0 45	22 36	0 0	18 7	17 20	8 49	8 13	18 1		n.a.
S 30	21s31	11n 1	0n26	25s 8	2s 7	25s17	1s52	23s59	0s53	1s12	1s28	10s38	2n 9	15n52	0n45	22s36	0n 0	18s 6	17s19	8n49	8n12	17n58		n.a.

Julian Day Number = 1671688.5, Delta T = 03h20m13s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'47, Lahiri = - 5°49'47 Julian Calendar 1 Nov. 137 BCE == Greg. Calendar 29 Oct. 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 137 BCE
geocentric

DECEMBER 137 BCE (-136) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 27 13	6♐48'49	10♉47	18♐10	10♑ 5	18♐ 8	0♈21	3♏ 5	19°R26	17♑ 8	24°R17	22°R22	20♈42	23♌29	n.a.	M 1
T 2	4 31 9	7°50'04	24° 9	19°47	11°19	18°55	0°22	3°12	19♌26	17°10	24♓17	22♈18	20°39	23°36	n.a.	T 2
W 3	4 35 6	8°51'18	7♊19	21°23	12°33	19°42	0°23	3°18	19°25	17°12	24°17	22°12	20°36	23°42	n.a.	W 3
T 4	4 39 2	9°52'32	20°15	22°59	13°46	20°29	0°24	3°24	19°25	17°14	24°17	22° 4	20°33	23°49	n.a.	T 4
F 5	4 42 59	10°53'46	2♋57	24°35	15° 0	21°16	0°25	3°30	19°25	17°16	24°16	21°55	20°30	23°56	n.a.	F 5
S 6	4 46 55	11°55'00	15°25	26°11	16°13	22° 3	0°27	3°36	19°24	17°18	24°16	21°45	20°26	24° 2	n.a.	S 6
S 7	4 50 52	12°56'14	27°39	27°46	17°27	22°50	0°29	3°42	19°24	17°20	24°16	21°36	20°23	24° 9	n.a.	S 7
M 8	4 54 48	13°57'28	9♌41	29°20	18°40	23°37	0°31	3°48	19°23	17°22	24°16	21°29	20°20	24°16	n.a.	M 8
T 9	4 58 45	14°58'42	21°36	0♑53	19°53	24°24	0°33	3°54	19°23	17°24	24°16	21°23	20°17	24°22	n.a.	T 9
W10	5 2 42	15°59'56	3♍26	2°24	21° 7	25°11	0°35	4° 0	19°22	17°26	24°16	21°20	20°14	24°29	n.a.	W10
T 11	5 6 38	17° 1'09	15°17	3°54	22°20	25°58	0°37	4° 6	19°21	17°28	24°16	21°D19	20°11	24°36	n.a.	T 11
F 12	5 10 35	18° 2'22	27°13	5°22	23°33	26°45	0°40	4°11	19°20	17°30	24°D16	21°19	20° 7	24°43	n.a.	F 12
S 13	5 14 31	19° 3'35	9♎21	6°47	24°46	27°32	0°43	4°17	19°20	17°32	24°16	21°20	20° 4	24°49	n.a.	S 13
S 14	5 18 28	20° 4'48	21°45	8°10	25°59	28°19	0°46	4°23	19°19	17°34	24°16	21°R21	20° 1	24°56	n.a.	S 14
M15	5 22 24	21° 6'01	4♏30	9°28	27°12	29° 6	0°50	4°28	19°18	17°36	24°16	21°20	19°58	25° 3	n.a.	M15
T 16	5 26 21	22° 7'13	17°40	10°43	28°25	29°54	0°53	4°34	19°17	17°38	24°16	21°17	19°55	25° 9	n.a.	T 16
W17	5 30 17	23° 8'25	1♐14	11°53	29°38	0♑41	0°57	4°39	19°16	17°40	24°16	21°11	19°52	25°16	n.a.	W17
T 18	5 34 14	24° 9'37	15°13	12°57	0♒51	1°28	1° 1	4°45	19°15	17°42	24°16	21° 3	19°48	25°23	n.a.	T 18
F 19	5 38 11	25°10'48	29°34	13°56	2° 4	2°15	1° 5	4°50	19°13	17°44	24°17	20°53	19°45	25°29	n.a.	F 19
S 20	5 42 7	26°11'58	14♑ 9	14°46	3°17	3° 3	1° 9	4°55	19°12	17°47	24°17	20°42	19°42	25°36	n.a.	S 20
S 21	5 46 4	27°13'07	28°51	15°29	4°29	3°50	1°14	5° 1	19°11	17°49	24°17	20°31	19°39	25°43	n.a.	S 21
M22	5 50 0	28°14'15	13♒32	16° 3	5°42	4°37	1°18	5° 6	19°10	17°51	24°17	20°23	19°36	25°50	n.a.	M22
T 23	5 53 57	29°15'22	28° 7	16°27	6°54	5°24	1°23	5°11	19° 8	17°53	24°17	20°17	19°32	25°56	n.a.	T 23
W24	5 57 53	0♑16'28	12♓28	16°40	8° 7	6°12	1°28	5°16	19° 7	17°55	24°18	20°13	19°29	26° 3	n.a.	W24
T 25	6 1 50	1°17'33	26°35	16°R42	9°19	6°59	1°33	5°21	19° 5	17°57	24°18	20°D12	19°26	26°10	n.a.	T 25
F 26	6 5 47	2°18'36	10♈26	16°33	10°32	7°46	1°39	5°26	19° 4	18° 0	24°18	20°12	19°23	26°16	n.a.	F 26
S 27	6 9 43	3°19'38	24° 2	16°13	11°44	8°34	1°44	5°31	19° 2	18° 2	24°19	20°R12	19°20	26°23	n.a.	S 27
S 28	6 13 40	4°20'39	7♉24	15°41	12°56	9°21	1°50	5°35	19° 1	18° 4	24°19	20°11	19°17	26°30	n.a.	S 28
M29	6 17 36	5°21'39	20°34	14°59	14° 8	10° 8	1°56	5°40	18°59	18° 6	24°19	20° 7	19°13	26°36	n.a.	M29
T 30	6 21 33	6°22'37	3♊33	14° 7	15°20	10°56	2° 2	5°45	18°58	18° 9	24°20	20° 1	19°10	26°43	n.a.	T 30
W31	6 25 29	7♑23'34	16♊21	13♑ 6	16♒32	11♑43	2♈ 8	5♏49	18♌56	18♑11	24♓20	19♈52	19♈ 7	26♌50	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	21 s42	16n47	1n38	25 s19	2 s 8	25 s12	1 s52	24 s 4	0 s53	1 s11	1 s27	10 s40	2n 9	15n53	0n45	22 s36	0n 0	18 s 6	17 s19	8n48	8n10	17n55			n.a.
T 2	21 52	21 39	2 43	25 27	2 9	25 6	1 53	24 8	0 54	1 11	1 27	10 42	2 9	15 53	0 45	22 36	0 s 0	18 6	17 19	8 47	8 9	17 53			n.a.
W 3	22 2	25 22	3 38	25 34	2 9	24 59	1 53	24 12	0 54	1 10	1 27	10 44	2 9	15 53	0 45	22 36	0 0	18 6	17 18	8 45	8 8	17 50			n.a.
T 4	22 11	27 41	4 21	25 39	2 8	24 52	1 53	24 16	0 55	1 9	1 26	10 46	2 9	15 53	0 45	22 35	0 0	18 5	17 18	8 41	8 7	17 47			n.a.
F 5	22 20	28 31	4 50	25 43	2 7	24 44	1 53	24 20	0 55	1 9	1 26	10 48	2 9	15 53	0 45	22 35	0 0	18 5	17 17	8 38	8 6	17 45			n.a.
S 6	22 29	27 51	5 4	25 44	2 5	24 36	1 54	24 23	0 55	1 8	1 26	10 50	2 10	15 53	0 45	22 35	0 0	18 5	17 17	8 34	8 4	17 42			n.a.
S 7	22 37	25 50	5 4	25 44	2 2	24 26	1 53	24 27	0 56	1 7	1 25	10 52	2 10	15 54	0 45	22 35	0 0	18 5	17 17	8 31	8 3	17 39			n.a.
M 8	22 44	22 42	4 51	25 42	1 59	24 16	1 53	24 29	0 56	1 6	1 25	10 54	2 10	15 54	0 45	22 34	0 0	18 4	17 16	8 28	8 2	17 36			n.a.
T 9	22 51	18 38	4 25	25 38	1 55	24 5	1 53	24 32	0 56	1 4	1 25	10 56	2 10	15 54	0 46	22 34	0 0	18 4	17 16	8 26	8 1	17 34			n.a.
W10	22 58	13 54	3 48	25 32	1 51	23 54	1 53	24 34	0 57	1 3	1 24	10 58	2 10	15 54	0 46	22 34	0 0	18 4	17 16	8 25	8 0	17 31			n.a.
T 11	23 4	8 38	3 1	25 25	1 46	23 41	1 53	24 36	0 57	1 2	1 24	10 59	2 10	15 55	0 46	22 34	0 0	18 3	17 15	8 24	7 58	17 28			n.a.
F 12	23 10	3 2	2 6	25 15	1 39	23 28	1 52	24 38	0 57	1 0	1 24	11 1	2 10	15 55	0 46	22 33	0 0	18 3	17 15	8 25	7 57	17 25			n.a.
S 13	23 15	2 s46	1 4	25 4	1 32	23 15	1 51	24 39	0 58	0 59	1 23	11 3	2 10	15 55	0 46	22 33	0 0	18 3	17 14	8 25	7 56	17 22			n.a.
S 14	23 20	8 36	0 s 2	24 52	1 24	23 0	1 51	24 40	0 58	0 57	1 23	11 5	2 10	15 55	0 46	22 33	0 0	18 2	17 14	8 25	7 55	17 20			n.a.
M15	23 25	14 16	1 10	24 37	1 15	22 45	1 50	24 41	0 58	0 56	1 23	11 7	2 11	15 56	0 46	22 33	0 0	18 2	17 14	8 25	7 54	17 17			n.a.
T 16	23 29	19 28	2 16	24 21	1 5	22 30	1 49	24 41	0 59	0 54	1 22	11 8	2 11	15 56	0 46	22 32	0 0	18 2	17 13	8 24	7 52	17 14			n.a.
W17	23 32	23 50	3 16	24 4	0 54	22 13	1 48	24 42	0 59	0 52	1 22	11 10	2 11	15 56	0 46	22 32	0 0	18 1	17 13	8 21	7 51	17 11			n.a.
T 18	23 35	26 57	4 6	23 46	0 42	21 57	1 47	24 42	0 59	0 50	1 22	11 12	2 11	15 57	0 46	22 32	0 0	18 1	17 13	8 18	7 50	17 9			n.a.
F 19	23 37	28 25	4 42	23 27	0 29	21 39	1 46	24 41	0 59	0 49	1 21	11 14	2 11	15 57	0 46	22 32	0 0	18 0	17 12	8 14	7 49	17 6			n.a.
S 20	23 40	27 56	5 0	23 8	0 15	21 21	1 45	24 40	1 0	0 46	1 21	11 15	2 11	15 58	0 46	22 31	0 0	18 0	17 12	8 10	7 47	17 3			n.a.
S 21	23 41	25 30	4 59	22 48	0n 1	21 2	1 44	24 39	1 0	0 44	1 21	11 17	2 11	15 58	0 46	22 31	0 0	18 0	17 12	8 6	7 46	17 0			n.a.
M22	23 42	21 23	4 38	22 27	0 17	20 43	1 42	24 38	1 0	0 42	1 20	11 18	2 11	15 59	0 46	22 31	0 0	17 59	17 11	8 3	7 45	16 57			n.a.
T 23	23 43	16 0	4 0	22 8	0 34	20 23	1 41	24 37	1 1	0 40	1 20	11 20	2 12	15 59	0 46	22 30	0 0	17 59	17 11	8 1	7 44	16 55			n.a.
W24	23 43	9 49	3 6	21 48	0 52	20 3	1 39	24 35	1 1	0 38	1 20	11 22	2 12	16 0	0 46	22 30	0 0	17 58	17 10	7 59	7 43	16 52			n.a.
T 25	23 42	3 14	2 2	21 30	1 10	19 42	1 38	24 33	1 1	0 35	1 20	11 23	2 12	16 0	0 46	22 30	0 0	17 58	17 10	7 59	7 41	16 49			n.a.
F 26	23 42	3n23	0 52	21 12	1 29	19 20	1 36	24 30	1 1	0 33	1 19	11 25	2 12	16 0	0 46	22 30	0 0	17 57	17 10	7 59	7 40	16 46			n.a.
S 27	23 40	9 44	0n20	20 57	1 47	18 58	1 34	24 27	1 2	0 30	1 19	11 26	2 12	16 1	0 46	22 29	0 0	17 57	17 9	7 59	7 39	16 43			n.a.
S 28	23 38	15 33	1 30	20 42	2 6	18 36	1 32	24 24	1 2	0 28	1 19	11 28	2 12	16 2	0 46	22 29	0 0	17 56	17 9	7 58	7 38	16 40			n.a.
M29	23 36	20 33	2 33	20 29	2 23	18 13	1 30	24 21	1 2	0 25	1 18	11 29	2 12	16 2	0 46	22 29	0 0	17 56	17 9	7 57	7 37	16 38			n.a.
T 30	23 33	24 30	3 28	20 18	2 40	17 50	1 28	24 17	1 2	0 22	1 18	11 30	2 13	16 3	0 46	22 28	0 0	17 55	17 8	7 55	7 35	16 35			n.a.
W31	23 s30	27n10	4n11	20 s 9	2n55	17 s26	1 s26	24 s14	1 s 2	0 s20	1 s18	11 s32	2n13	16n 3	0n46	22 s28	0 s 0	17 s55	17 s 8	7n51	7n34	16n32			n.a.

Julian Day Number = 1671718.5, Delta T = 03h20m12s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'43, Lahiri = - 5°49'43 Julian Calendar 1 Dec. 137 BCE == Greg. Calendar 28 Nov. 137 BCE

The year -136 astronomical counting style corresponds to year 137 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

JANUARY 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 29 26	8♑24'30	28♊58	12°R 0	17♒44	12♑31	2♈14	5♏53	18°R54	18♑13	24♓21	19°R39	19♈ 4	26♌57	n.a.	T 1
F 2	6 33 22	9°25'24	11♋26	10♑49	18°55	13°18	2°21	5°58	18♌52	18°15	24°21	19♈26	19° 1	27° 3	n.a.	F 2
S 3	6 37 19	10°26'18	23°43	9°35	20° 7	14° 5	2°28	6° 2	18°51	18°18	24°22	19°11	18°58	27°10	n.a.	S 3
S 4	6 41 16	11°27'10	5♌50	8°21	21°18	14°53	2°35	6° 6	18°49	18°20	24°22	18°57	18°54	27°17	n.a.	S 4
M 5	6 45 12	12°28'01	17°49	7°10	22°30	15°40	2°42	6°11	18°47	18°22	24°23	18°45	18°51	27°23	n.a.	M 5
T 6	6 49 9	13°28'51	29°41	6° 1	23°41	16°27	2°49	6°15	18°45	18°24	24°23	18°36	18°48	27°30	n.a.	T 6
W 7	6 53 5	14°29'39	11♍30	4°58	24°52	17°15	2°56	6°19	18°43	18°27	24°24	18°29	18°45	27°37	n.a.	W 7
T 8	6 57 2	15°30'27	23°19	4° 2	26° 3	18° 2	3° 4	6°22	18°41	18°29	24°25	18°26	18°42	27°43	n.a.	T 8
F 9	7 0 58	16°31'13	5♎14	3°12	27°14	18°50	3°11	6°26	18°39	18°31	24°25	18°24	18°38	27°50	n.a.	F 9
S 10	7 4 55	17°31'58	17°18	2°31	28°25	19°37	3°19	6°30	18°37	18°33	24°26	18°24	18°35	27°57	n.a.	S 10
S 11	7 8 51	18°32'42	29°39	1°57	29°35	20°24	3°27	6°34	18°35	18°36	24°26	18°24	18°32	28° 3	n.a.	S 11
M12	7 12 48	19°33'24	12♏20	1°32	0♓46	21°12	3°35	6°37	18°32	18°38	24°27	18°23	18°29	28°10	n.a.	M12
T 13	7 16 45	20°34'06	25°28	1°14	1°56	21°59	3°44	6°41	18°30	18°40	24°28	18°19	18°26	28°17	n.a.	T 13
W14	7 20 41	21°34'46	9♐ 4	1° 5	3° 7	22°47	3°52	6°44	18°28	18°43	24°29	18°13	18°23	28°24	n.a.	W14
T 15	7 24 38	22°35'25	23° 9	1°D 3	4°17	23°34	4° 0	6°47	18°26	18°45	24°29	18° 4	18°19	28°30	n.a.	T 15
F 16	7 28 34	23°36'03	7♑41	1° 8	5°27	24°21	4° 9	6°51	18°23	18°47	24°30	17°53	18°16	28°37	n.a.	F 16
S 17	7 32 31	24°36'39	22°34	1°19	6°37	25° 9	4°18	6°54	18°21	18°49	24°31	17°41	18°13	28°44	n.a.	S 17
S 18	7 36 27	25°37'13	7♒39	1°37	7°47	25°56	4°27	6°57	18°19	18°52	24°32	17°30	18°10	28°50	n.a.	S 18
M19	7 40 24	26°37'45	22°45	2° 0	8°56	26°43	4°36	7° 0	18°17	18°54	24°32	17°20	18° 7	28°57	n.a.	M19
T 20	7 44 21	27°38'16	7♓44	2°29	10° 6	27°31	4°45	7° 2	18°14	18°56	24°33	17°13	18° 4	29° 4	n.a.	T 20
W21	7 48 17	28°38'44	22°25	3° 3	11°15	28°18	4°55	7° 5	18°12	18°58	24°34	17° 8	18° 0	29°10	n.a.	W21
T 22	7 52 14	29°39'11	6♈47	3°41	12°24	29° 5	5° 4	7° 8	18° 9	19° 1	24°35	17° 6	17°57	29°17	n.a.	T 22
F 23	7 56 10	0♒39'35	20°45	4°23	13°33	29°53	5°14	7°10	18° 7	19° 3	24°36	17°D 6	17°54	29°24	n.a.	F 23
S 24	8 0 7	1°39'58	4♉21	5° 9	14°42	0♒40	5°23	7°13	18° 4	19° 5	24°37	17°R 6	17°51	29°30	n.a.	S 24
S 25	8 4 3	2°40'18	17°37	5°59	15°51	1°27	5°33	7°15	18° 2	19° 7	24°38	17° 5	17°48	29°37	n.a.	S 25
M26	8 8 0	3°40'36	0♊35	6°52	16°59	2°15	5°43	7°18	17°59	19°10	24°39	17° 2	17°44	29°44	n.a.	M26
T 27	8 11 56	4°40'53	13°19	7°48	18° 8	3° 2	5°53	7°20	17°57	19°12	24°40	16°57	17°41	29°51	n.a.	T 27
W28	8 15 53	5°41'07	25°50	8°47	19°16	3°49	6° 3	7°22	17°54	19°14	24°41	16°48	17°38	29°57	n.a.	W28
T 29	8 19 50	6°41'19	8♋11	9°48	20°24	4°36	6°13	7°24	17°52	19°16	24°42	16°38	17°35	0♍ 4	n.a.	T 29
F 30	8 23 46	7°41'29	20°24	10°53	21°31	5°23	6°24	7°26	17°49	19°18	24°43	16°25	17°32	0°11	n.a.	F 30
S 31	8 27 43	8♒41'37	2♌30	11♑59	22♓39	6♒11	6♈34	7♏28	17♌47	19♑21	24♓44	16♈12	17♈29	0♍17	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23s27	28n23	4n41	20s 2	3n 8	17s 1	1s24	24s 9	1s 3	0s17	1s17	11s33	2n13	16n 4	0n46	22s28	0s 0	17s54	17s 8	7n47	7n33	16n29			n.a.
F 2	23 22	28 9	4 57	19 57	3 20	16 37	1 21	24 5	1 3	0 14	1 17	11 34	2 13	16 4	0 46	22 28	0 0	17 54	17 7	7 41	7 32	16 26			n.a.
S 3	23 18	26 30	4 59	19 53	3 29	16 11	1 19	24 0	1 3	0 11	1 17	11 36	2 13	16 5	0 46	22 27	0 0	17 53	17 7	7 36	7 30	16 23			n.a.
S 4	23 13	23 39	4 47	19 52	3 36	15 46	1 16	23 55	1 3	0 8	1 16	11 37	2 13	16 6	0 47	22 27	0 0	17 53	17 6	7 30	7 29	16 20			n.a.
M 5	23 7	19 50	4 23	19 51	3 40	15 20	1 14	23 50	1 3	0 5	1 16	11 38	2 13	16 6	0 47	22 27	0 0	17 52	17 6	7 26	7 28	16 18			n.a.
T 6	23 1	15 15	3 47	19 53	3 42	14 54	1 11	23 44	1 3	0 2	1 16	11 39	2 14	16 7	0 47	22 26	0 0	17 52	17 6	7 22	7 27	16 15			n.a.
W 7	22 55	10 8	3 2	19 56	3 41	14 27	1 8	23 38	1 4	0n 2	1 16	11 40	2 14	16 8	0 47	22 26	0 0	17 51	17 5	7 20	7 26	16 12			n.a.
T 8	22 48	4 39	2 8	20 0	3 39	14 0	1 5	23 32	1 4	0 5	1 15	11 42	2 14	16 8	0 47	22 26	0 0	17 51	17 5	7 18	7 24	16 9			n.a.
F 9	22 41	1s 3	1 9	20 6	3 35	13 33	1 2	23 26	1 4	0 8	1 15	11 43	2 14	16 9	0 47	22 25	0 0	17 50	17 5	7 18	7 23	16 6			n.a.
S 10	22 33	6 47	0 6	20 13	3 29	13 5	0 59	23 19	1 4	0 12	1 15	11 44	2 14	16 10	0 47	22 25	0 0	17 50	17 4	7 18	7 22	16 3			n.a.
S 11	22 25	12 24	0s59	20 21	3 21	12 37	0 56	23 12	1 4	0 15	1 14	11 45	2 14	16 10	0 47	22 25	0 0	17 49	17 4	7 18	7 21	16 0			n.a.
M12	22 16	17 40	2 3	20 29	3 13	12 9	0 53	23 5	1 4	0 19	1 14	11 46	2 15	16 11	0 47	22 25	0 0	17 48	17 4	7 17	7 19	15 57			n.a.
T 13	22 7	22 18	3 2	20 39	3 4	11 41	0 50	22 57	1 4	0 22	1 14	11 47	2 15	16 12	0 47	22 24	0 1	17 48	17 3	7 16	7 18	15 54			n.a.
W14	21 58	25 54	3 54	20 49	2 53	11 12	0 46	22 50	1 5	0 26	1 14	11 48	2 15	16 12	0 47	22 24	0 1	17 47	17 3	7 13	7 17	15 52			n.a.
T 15	21 48	28 4	4 33	21 0	2 43	10 43	0 43	22 42	1 5	0 29	1 13	11 49	2 15	16 13	0 47	22 24	0 1	17 47	17 3	7 10	7 16	15 49			n.a.
F 16	21 38	28 24	4 56	21 11	2 32	10 14	0 39	22 33	1 5	0 33	1 13	11 49	2 15	16 14	0 47	22 23	0 1	17 46	17 2	7 6	7 15	15 46			n.a.
S 17	21 27	26 43	4 59	21 22	2 20	9 44	0 35	22 25	1 5	0 37	1 13	11 50	2 16	16 15	0 47	22 23	0 1	17 45	17 2	7 1	7 13	15 43			n.a.
S 18	21 16	23 6	4 42	21 34	2 9	9 14	0 32	22 16	1 5	0 41	1 13	11 51	2 16	16 15	0 47	22 23	0 1	17 45	17 2	6 57	7 12	15 40			n.a.
M19	21 4	17 57	4 5	21 45	1 57	8 45	0 28	22 7	1 5	0 45	1 12	11 52	2 16	16 16	0 47	22 22	0 1	17 44	17 1	6 53	7 11	15 37			n.a.
T 20	20 52	11 44	3 12	21 56	1 45	8 14	0 24	21 58	1 5	0 49	1 12	11 53	2 16	16 17	0 47	22 22	0 1	17 44	17 1	6 50	7 10	15 34			n.a.
W21	20 40	4 58	2 7	22 7	1 34	7 44	0 20	21 48	1 5	0 53	1 12	11 53	2 16	16 18	0 47	22 22	0 1	17 43	17 1	6 48	7 8	15 31			n.a.
T 22	20 27	1n53	0 54	22 18	1 22	7 14	0 16	21 38	1 5	0 57	1 12	11 54	2 16	16 18	0 47	22 22	0 1	17 42	17 1	6 48	7 7	15 28			n.a.
F 23	20 14	8 29	0n19	22 28	1 11	6 43	0 12	21 28	1 5	1 1	1 11	11 55	2 17	16 19	0 47	22 21	0 1	17 42	17 0	6 48	7 6	15 25			n.a.
S 24	20 1	14 31	1 30	22 37	0 59	6 13	0 8	21 18	1 5	1 5	1 11	11 55	2 17	16 20	0 47	22 21	0 1	17 41	17 0	6 48	7 5	15 22			n.a.
S 25	19 47	19 44	2 34	22 46	0 48	5 42	0 4	21 7	1 5	1 9	1 11	11 56	2 17	16 21	0 47	22 21	0 1	17 40	17 0	6 47	7 4	15 19			n.a.
M26	19 33	23 54	3 29	22 54	0 38	5 11	0n 0	20 57	1 5	1 13	1 11	11 57	2 17	16 22	0 47	22 20	0 1	17 40	16 59	6 46	7 2	15 16			n.a.
T 27	19 19	26 49	4 12	23 2	0 27	4 40	0 5	20 46	1 5	1 17	1 10	11 57	2 17	16 22	0 47	22 20	0 1	17 39	16 59	6 44	7 1	15 13			n.a.
W28	19 4	28 20	4 42	23 8	0 17	4 9	0 9	20 35	1 5	1 22	1 10	11 58	2 18	16 23	0 47	22 20	0 1	17 39	16 59	6 41	7 0	15 10			n.a.
T 29	18 49	28 25	4 58	23 14	0 7	3 38	0 14	20 23	1 5	1 26	1 10	11 58	2 18	16 24	0 47	22 19	0 1	17 38	16 59	6 36	6 59	15 7			n.a.
F 30	18 33	27 6	5 1	23 19	0s 3	3 7	0 18	20 12	1 5	1 30	1 10	11 59	2 18	16 25	0 47	22 19	0 1	17 37	16 58	6 32	6 57	15 4			n.a.
S 31	18s18	24n31	4n50	23s22	0s12	2s36	0n23	20s 0	1s 5	1n35	1s 9	11s59	2n18	16n26	0n47	22s19	0s 1	17s37	16s58	6n26	6n56	15n 2			n.a.

Julian Day Number = 1671749.5, Delta T = 03h20m11s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'39, Lahiri = - 5°49'39 Julian Calendar 1 Jan. 136 BCE == Greg. Calendar 29 Dec. 137 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

FEBRUARY 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 31 39	9♒41'43	14♌28	13♉ 7	23♓46	6♒58	6♈45	7♏29	17°R44	19♉23	24♓45	15°R59	17♈25	0♍24	n.a.	S 1
M 2	8 35 36	10°41'47	26°22	14°18	24°53	7°45	6°56	7°31	17♌42	19°25	24°46	15♈48	17°22	0°31	n.a.	M 2
T 3	8 39 32	11°41'49	8♍12	15°31	26° 0	8°32	7° 6	7°32	17°39	19°27	24°47	15°39	17°19	0°37	n.a.	T 3
W 4	8 43 29	12°41'49	20° 1	16°45	27° 7	9°19	7°17	7°34	17°36	19°29	24°48	15°33	17°16	0°44	n.a.	W 4
T 5	8 47 25	13°41'47	1♎51	18° 1	28°13	10° 6	7°28	7°35	17°34	19°31	24°49	15°30	17°13	0°51	n.a.	T 5
F 6	8 51 22	14°41'44	13°46	19°19	29°19	10°53	7°39	7°36	17°31	19°33	24°50	15°D29	17°10	0°57	n.a.	F 6
S 7	8 55 19	15°41'38	25°51	20°38	0♈25	11°40	7°51	7°38	17°29	19°36	24°51	15°29	17° 6	1° 4	n.a.	S 7
S 8	8 59 15	16°41'31	8♏ 9	21°59	1°31	12°27	8° 2	7°39	17°26	19°38	24°52	15°30	17° 3	1°11	n.a.	S 8
M 9	9 3 12	17°41'22	20°47	23°22	2°36	13°14	8°13	7°40	17°23	19°40	24°53	15°R31	17° 0	1°18	n.a.	M 9
T 10	9 7 8	18°41'12	3♐49	24°46	3°42	14° 1	8°25	7°40	17°21	19°42	24°55	15°29	16°57	1°24	n.a.	T 10
W11	9 11 5	19°41'00	17°18	26°11	4°46	14°48	8°36	7°41	17°18	19°44	24°56	15°26	16°54	1°31	n.a.	W11
T 12	9 15 1	20°40'45	1♑17	27°38	5°51	15°35	8°48	7°42	17°16	19°46	24°57	15°21	16°50	1°38	n.a.	T 12
F 13	9 18 58	21°40'30	15°46	29° 6	6°56	16°22	9° 0	7°42	17°13	19°48	24°58	15°13	16°47	1°44	n.a.	F 13
S 14	9 22 54	22°40'12	0♒38	0♒35	8° 0	17° 9	9°12	7°43	17°10	19°50	24°59	15° 5	16°44	1°51	n.a.	S 14
S 15	9 26 51	23°39'52	15°48	2° 6	9° 3	17°56	9°23	7°43	17° 8	19°52	25° 1	14°57	16°41	1°58	n.a.	S 15
M16	9 30 48	24°39'30	1♓ 5	3°38	10° 7	18°43	9°35	7°43	17° 5	19°54	25° 2	14°50	16°38	2° 4	n.a.	M16
T 17	9 34 44	25°39'06	16°18	5°11	11°10	19°30	9°48	7°43	17° 3	19°56	25° 3	14°45	16°35	2°11	n.a.	T 17
W18	9 38 41	26°38'39	1♈17	6°46	12°13	20°16	10° 0	7°R43	17° 0	19°58	25° 4	14°42	16°31	2°18	n.a.	W18
T 19	9 42 37	27°38'10	15°55	8°22	13°15	21° 3	10°12	7°43	16°57	20° 0	25° 6	14°D41	16°28	2°24	n.a.	T 19
F 20	9 46 34	28°37'39	0♉ 8	9°59	14°18	21°50	10°24	7°43	16°55	20° 1	25° 7	14°42	16°25	2°31	n.a.	F 20
S 21	9 50 30	29°37'06	13°54	11°38	15°19	22°36	10°37	7°43	16°52	20° 3	25° 8	14°43	16°22	2°38	n.a.	S 21
S 22	9 54 27	0♓36'30	27°15	13°18	16°21	23°23	10°49	7°42	16°50	20° 5	25° 9	14°R44	16°19	2°44	n.a.	S 22
M23	9 58 23	1°35'52	10♊13	14°59	17°22	24°10	11° 1	7°42	16°47	20° 7	25°11	14°44	16°16	2°51	n.a.	M23
T 24	10 2 20	2°35'11	22°53	16°41	18°23	24°56	11°14	7°41	16°45	20° 9	25°12	14°42	16°12	2°58	n.a.	T 24
W25	10 6 16	3°34'28	5♋17	18°25	19°23	25°43	11°27	7°41	16°42	20°11	25°13	14°38	16° 9	3° 4	n.a.	W25
T 26	10 10 13	4°33'42	17°28	20°10	20°23	26°29	11°39	7°40	16°40	20°12	25°15	14°32	16° 6	3°11	n.a.	T 26
F 27	10 14 10	5°32'54	29°31	21°56	21°22	27°16	11°52	7°39	16°37	20°14	25°16	14°25	16° 3	3°18	n.a.	F 27
S 28	10 18 6	6♓32'04	11♌28	23♒44	22♈21	28♒ 2	12♈ 5	7♏38	16♌35	20♉16	25♓17	14♈18	16♈ 0	3♍25	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	18s 2	20n54	4n26	23s25	0s21	2s 5	0n27	19s48	1s 5	1n39	1s 9	11s59	2n18	16n26	0n47	22s18	0s 1	17s36	16s58	6n22	6n55	14n59			n.a.
M 2	17 45	16 28	3 50	23 26	0 30	1 34	0 32	19 36	1 5	1 44	1 9	12 0	2 19	16 27	0 47	22 18	0 1	17 35	16 58	6 17	6 54	14 56			n.a.
T 3	17 28	11 26	3 5	23 27	0 39	1 3	0 37	19 23	1 5	1 48	1 9	12 0	2 19	16 28	0 47	22 18	0 1	17 35	16 57	6 14	6 53	14 53			n.a.
W 4	17 12	6 1	2 12	23 26	0 47	0 32	0 42	19 10	1 5	1 53	1 9	12 0	2 19	16 29	0 47	22 18	0 1	17 34	16 57	6 12	6 51	14 50			n.a.
T 5	16 54	0 21	1 12	23 23	0 55	0 0	0 46	18 58	1 5	1 57	1 8	12 0	2 19	16 30	0 47	22 17	0 1	17 33	16 57	6 10	6 50	14 47			n.a.
F 6	16 37	5s21	0 9	23 20	1 2	0n31	0 51	18 45	1 5	2 2	1 8	12 1	2 19	16 30	0 47	22 17	0 1	17 33	16 57	6 10	6 49	14 44			n.a.
S 7	16 19	10 57	0s55	23 15	1 9	1 2	0 56	18 31	1 5	2 7	1 8	12 1	2 20	16 31	0 47	22 17	0 1	17 32	16 56	6 10	6 48	14 41			n.a.
S 8	16 1	16 15	1 58	23 9	1 16	1 33	1 1	18 18	1 5	2 11	1 8	12 1	2 20	16 32	0 47	22 16	0 1	17 31	16 56	6 10	6 46	14 38			n.a.
M 9	15 42	21 0	2 57	23 1	1 23	2 3	1 6	18 4	1 5	2 16	1 7	12 1	2 20	16 33	0 47	22 16	0 1	17 31	16 56	6 10	6 45	14 35			n.a.
T 10	15 24	24 54	3 49	22 52	1 29	2 34	1 11	17 51	1 5	2 21	1 7	12 1	2 20	16 34	0 47	22 16	0 1	17 30	16 56	6 10	6 44	14 32			n.a.
W11	15 5	27 35	4 30	22 42	1 34	3 5	1 16	17 37	1 5	2 26	1 7	12 1	2 20	16 34	0 47	22 16	0 1	17 29	16 55	6 9	6 43	14 29			n.a.
T 12	14 46	28 39	4 57	22 30	1 40	3 36	1 21	17 23	1 5	2 30	1 7	12 1	2 21	16 35	0 47	22 15	0 1	17 29	16 55	6 7	6 41	14 26			n.a.
F 13	14 27	27 50	5 6	22 17	1 45	4 6	1 26	17 8	1 5	2 35	1 7	12 1	2 21	16 36	0 47	22 15	0 1	17 28	16 55	6 4	6 40	14 23			n.a.
S 14	14 7	25 2	4 55	22 2	1 49	4 36	1 32	16 54	1 5	2 40	1 6	12 1	2 21	16 37	0 47	22 15	0 1	17 27	16 55	6 1	6 39	14 20			n.a.
S 15	13 47	20 28	4 23	21 46	1 53	5 7	1 37	16 39	1 4	2 45	1 6	12 1	2 21	16 38	0 47	22 14	0 1	17 27	16 55	5 57	6 38	14 16			n.a.
M16	13 27	14 31	3 33	21 28	1 57	5 37	1 42	16 24	1 4	2 50	1 6	12 1	2 21	16 38	0 47	22 14	0 1	17 26	16 54	5 55	6 37	14 13			n.a.
T 17	13 7	7 43	2 27	21 8	2 1	6 7	1 47	16 9	1 4	2 55	1 6	12 1	2 22	16 39	0 47	22 14	0 1	17 25	16 54	5 53	6 35	14 10			n.a.
W18	12 47	0 34	1 12	20 47	2 3	6 36	1 52	15 54	1 4	3 0	1 6	12 1	2 22	16 40	0 47	22 14	0 1	17 25	16 54	5 52	6 34	14 7			n.a.
T 19	12 26	6n26	0n 7	20 24	2 6	7 6	1 58	15 39	1 4	3 5	1 6	12 1	2 22	16 41	0 47	22 13	0 1	17 24	16 54	5 51	6 33	14 4			n.a.
F 20	12 5	12 56	1 23	20 0	2 8	7 35	2 3	15 24	1 4	3 10	1 5	12 0	2 22	16 42	0 47	22 13	0 1	17 23	16 54	5 52	6 32	14 1			n.a.
S 21	11 44	18 36	2 31	19 34	2 10	8 4	2 8	15 8	1 4	3 15	1 5	12 0	2 22	16 42	0 47	22 13	0 1	17 23	16 54	5 52	6 30	13 58			n.a.
S 22	11 23	23 10	3 30	19 7	2 11	8 33	2 14	14 53	1 3	3 20	1 5	12 0	2 23	16 43	0 47	22 13	0 1	17 22	16 53	5 52	6 29	13 55			n.a.
M23	11 2	26 27	4 15	18 37	2 12	9 2	2 19	14 37	1 3	3 25	1 5	11 59	2 23	16 44	0 47	22 12	0 1	17 21	16 53	5 52	6 28	13 52			n.a.
T 24	10 40	28 18	4 47	18 7	2 12	9 30	2 24	14 21	1 3	3 30	1 5	11 59	2 23	16 45	0 47	22 12	0 1	17 21	16 53	5 51	6 27	13 49			n.a.
W25	10 19	28 42	5 5	17 34	2 12	9 58	2 29	14 5	1 3	3 35	1 4	11 59	2 23	16 45	0 47	22 12	0 1	17 20	16 53	5 50	6 25	13 46			n.a.
T 26	9 57	27 40	5 9	17 0	2 11	10 26	2 35	13 49	1 3	3 41	1 4	11 58	2 23	16 46	0 47	22 11	0 1	17 19	16 53	5 48	6 24	13 43			n.a.
F 27	9 35	25 21	4 59	16 24	2 10	10 54	2 40	13 32	1 2	3 46	1 4	11 58	2 23	16 47	0 47	22 11	0 1	17 19	16 53	5 45	6 23	13 40			n.a.
S 28	9s13	21n57	4n36	15s47	2s 8	11n21	2n45	13s16	1s 2	3n51	1s 4	11s57	2n24	16n48	0n47	22s11	0s 1	17s18	16s53	5n42	6n22	13n37			n.a.

Julian Day Number = 1671780.5, Delta T = 03h20m10s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'35, Lahiri = - 5°49'34 Julian Calendar 1 Feb. 136 BCE == Greg. Calendar 29 Jan. 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

MARCH 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 22 3	7♓31'12	23♌20	25♒33	23♈20	28♒48	12♈18	7°R37	16°R33	20♉18	25♓19	14°R11	15♈56	3♍31	n.a.	S 1
M 2	10 25 59	8°30'17	5♍11	27°24	24°18	29°35	12°31	7♏36	16♌30	20°19	25°20	14♈ 5	15°53	3°38	n.a.	M 2
T 3	10 29 56	9°29'20	17° 0	29°16	25°15	0♓21	12°44	7°35	16°28	20°21	25°21	14° 1	15°50	3°45	n.a.	T 3
W 4	10 33 52	10°28'21	28°52	1♓ 9	26°12	1° 7	12°57	7°33	16°26	20°22	25°23	13°58	15°47	3°51	n.a.	W 4
T 5	10 37 49	11°27'20	10♎47	3° 4	27° 9	1°53	13°10	7°32	16°23	20°24	25°24	13°D57	15°44	3°58	n.a.	T 5
F 6	10 41 45	12°26'17	22°48	5° 0	28° 5	2°40	13°23	7°30	16°21	20°26	25°25	13°57	15°41	4° 5	n.a.	F 6
S 7	10 45 42	13°25'12	4♏58	6°57	29° 0	3°26	13°36	7°29	16°19	20°27	25°27	13°58	15°37	4°11	n.a.	S 7
S 8	10 49 39	14°24'05	17°22	8°56	29°55	4°12	13°49	7°27	16°17	20°29	25°28	14° 0	15°34	4°18	n.a.	S 8
M 9	10 53 35	15°22'56	0♐ 1	10°56	0♉49	4°58	14° 3	7°25	16°14	20°30	25°30	14° 1	15°31	4°25	n.a.	M 9
T 10	10 57 32	16°21'46	13° 1	12°58	1°43	5°44	14°16	7°23	16°12	20°32	25°31	14°R 2	15°28	4°31	n.a.	T 10
W11	11 1 28	17°20'34	26°25	15° 0	2°36	6°30	14°29	7°21	16°10	20°33	25°32	14° 2	15°25	4°38	n.a.	W11
T 12	11 5 25	18°19'20	10♑14	17° 4	3°28	7°16	14°43	7°19	16° 8	20°35	25°34	14° 1	15°21	4°45	n.a.	T 12
F 13	11 9 21	19°18'04	24°30	19° 8	4°19	8° 2	14°56	7°17	16° 6	20°36	25°35	13°58	15°18	4°51	n.a.	F 13
S 14	11 13 18	20°16'46	9♒ 9	21°13	5°10	8°48	15°10	7°15	16° 4	20°37	25°37	13°55	15°15	4°58	n.a.	S 14
S 15	11 17 14	21°15'27	24° 7	23°19	6° 1	9°34	15°23	7°13	16° 2	20°39	25°38	13°52	15°12	5° 5	n.a.	S 15
M16	11 21 11	22°14'05	9♓16	25°26	6°50	10°19	15°37	7°10	16° 0	20°40	25°39	13°49	15° 9	5°11	n.a.	M16
T 17	11 25 7	23°12'42	24°27	27°32	7°39	11° 5	15°50	7° 8	15°58	20°41	25°41	13°47	15° 6	5°18	n.a.	T 17
W18	11 29 4	24°11'16	9♈29	29°39	8°27	11°51	16° 4	7° 5	15°56	20°43	25°42	13°D47	15° 2	5°25	n.a.	W18
T 19	11 33 1	25° 9'49	24°15	1♈45	9°14	12°37	16°18	7° 2	15°54	20°44	25°44	13°47	14°59	5°31	n.a.	T 19
F 20	11 36 57	26° 8'19	8♉38	3°51	10° 0	13°22	16°32	7° 0	15°52	20°45	25°45	13°48	14°56	5°38	n.a.	F 20
S 21	11 40 54	27° 6'47	22°35	5°56	10°45	14° 8	16°45	6°57	15°51	20°46	25°46	13°49	14°53	5°45	n.a.	S 21
S 22	11 44 50	28° 5'13	6♊ 5	8° 0	11°29	14°53	16°59	6°54	15°49	20°47	25°48	13°50	14°50	5°51	n.a.	S 22
M23	11 48 47	29° 3'37	19°10	10° 2	12°13	15°39	17°13	6°51	15°47	20°49	25°49	13°51	14°47	5°58	n.a.	M23
T 24	11 52 43	0♈ 1'58	1♋52	12° 2	12°55	16°24	17°27	6°48	15°46	20°50	25°51	13°R51	14°43	6° 5	n.a.	T 24
W25	11 56 40	1° 0'18	14°16	14° 0	13°36	17° 9	17°41	6°45	15°44	20°51	25°52	13°51	14°40	6°11	n.a.	W25
T 26	12 0 36	1°58'35	26°25	15°56	14°16	17°55	17°54	6°42	15°42	20°52	25°54	13°50	14°37	6°18	n.a.	T 26
F 27	12 4 33	2°56'50	8♌24	17°49	14°55	18°40	18° 8	6°38	15°41	20°53	25°55	13°48	14°34	6°25	n.a.	F 27
S 28	12 8 30	3°55'03	20°17	19°39	15°33	19°25	18°22	6°35	15°39	20°54	25°56	13°47	14°31	6°31	n.a.	S 28
S 29	12 12 26	4°53'14	2♍ 6	21°26	16°10	20°10	18°36	6°32	15°38	20°55	25°58	13°46	14°27	6°38	n.a.	S 29
M30	12 16 23	5°51'22	13°56	23° 9	16°45	20°56	18°50	6°28	15°37	20°56	25°59	13°45	14°24	6°45	n.a.	M30
T 31	12 20 19	6♈49'29	25♍48	24♈48	17♉19	21♓41	19♈ 4	6♏25	15♌35	20♉56	26♓ 0	13♈44	14♈21	6♍52	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	8s51	17n40	4n 1	15s 8	2s 6	11n48	2n51	12s59	1s 2	3n56	1s 4	11s57	2n24	16n48	0n47	22s11	0s 1	17s17	16s52	5n39	6n20	13n34			n.a.
M 2	8 28	12 45	3 16	14 27	2 4	12 14	2 56	12 43	1 2	4 1	1 4	11 56	2 24	16 49	0 47	22 11	0 1	17 17	16 52	5 37	6 19	13 31			n.a.
T 3	8 6	7 21	2 22	13 44	2 0	12 41	3 1	12 26	1 2	4 7	1 4	11 56	2 24	16 50	0 47	22 10	0 1	17 16	16 52	5 35	6 18	13 28			n.a.
W 4	7 44	1 42	1 22	13 0	1 57	13 7	3 6	12 9	1 1	4 12	1 3	11 55	2 24	16 50	0 47	22 10	0 1	17 15	16 52	5 34	6 17	13 25			n.a.
T 5	7 21	4s 3	0 17	12 14	1 52	13 32	3 11	11 52	1 1	4 17	1 3	11 54	2 25	16 51	0 47	22 10	0 1	17 15	16 52	5 34	6 16	13 21			n.a.
F 6	6 58	9 43	0s48	11 27	1 48	13 58	3 16	11 35	1 1	4 22	1 3	11 54	2 25	16 52	0 47	22 10	0 1	17 14	16 52	5 34	6 14	13 18			n.a.
S 7	6 35	15 6	1 53	10 38	1 42	14 22	3 21	11 18	1 1	4 28	1 3	11 53	2 25	16 52	0 47	22 9	0 1	17 14	16 52	5 34	6 13	13 15			n.a.
S 8	6 13	19 58	2 53	9 48	1 36	14 47	3 27	11 1	1 0	4 33	1 3	11 52	2 25	16 53	0 47	22 9	0 1	17 13	16 52	5 35	6 12	13 12			n.a.
M 9	5 50	24 4	3 46	8 56	1 30	15 11	3 32	10 44	1 0	4 38	1 3	11 52	2 25	16 54	0 47	22 9	0 1	17 12	16 52	5 36	6 11	13 9			n.a.
T 10	5 26	27 5	4 30	8 3	1 23	15 35	3 36	10 26	1 0	4 44	1 2	11 51	2 25	16 54	0 47	22 9	0 1	17 12	16 52	5 36	6 9	13 6			n.a.
W11	5 3	28 39	5 0	7 8	1 15	15 58	3 41	10 9	1 0	4 49	1 2	11 50	2 26	16 55	0 47	22 8	0 1	17 11	16 52	5 36	6 8	13 3			n.a.
T 12	4 40	28 31	5 14	6 12	1 7	16 21	3 46	9 51	0 59	4 54	1 2	11 49	2 26	16 56	0 47	22 8	0 1	17 10	16 51	5 35	6 7	13 0			n.a.
F 13	4 17	26 32	5 9	5 15	0 59	16 43	3 51	9 34	0 59	5 0	1 2	11 48	2 26	16 56	0 47	22 8	0 1	17 10	16 51	5 34	6 6	12 57			n.a.
S 14	3 54	22 44	4 44	4 17	0 50	17 5	3 56	9 16	0 59	5 5	1 2	11 47	2 26	16 57	0 47	22 8	0 1	17 9	16 51	5 33	6 4	12 53			n.a.
S 15	3 30	17 24	4 0	3 18	0 41	17 27	4 0	8 59	0 59	5 11	1 2	11 47	2 26	16 57	0 47	22 8	0 1	17 9	16 51	5 32	6 3	12 50			n.a.
M16	3 7	10 56	2 59	2 18	0 31	17 48	4 5	8 41	0 58	5 16	1 2	11 46	2 26	16 58	0 47	22 8	0 1	17 8	16 51	5 31	6 2	12 47			n.a.
T 17	2 43	3 50	1 45	1 18	0 21	18 8	4 9	8 23	0 58	5 21	1 2	11 45	2 26	16 59	0 47	22 7	0 1	17 7	16 51	5 30	6 1	12 44			n.a.
W18	2 20	3n26	0 24	0 18	0 10	18 29	4 14	8 5	0 58	5 27	1 1	11 44	2 27	16 59	0 47	22 7	0 1	17 7	16 51	5 30	5 59	12 41			n.a.
T 19	1 57	10 24	0n58	0n43	0n 1	18 48	4 18	7 47	0 57	5 32	1 1	11 43	2 27	17 0	0 47	22 7	0 1	17 6	16 51	5 30	5 58	12 38			n.a.
F 20	1 33	16 38	2 13	1 44	0 12	19 7	4 22	7 29	0 57	5 38	1 1	11 42	2 27	17 0	0 47	22 7	0 1	17 6	16 51	5 30	5 57	12 35			n.a.
S 21	1 10	21 49	3 18	2 44	0 23	19 26	4 26	7 11	0 57	5 43	1 1	11 41	2 27	17 1	0 47	22 7	0 1	17 5	16 51	5 31	5 56	12 32			n.a.
S 22	0 46	25 41	4 10	3 44	0 34	19 44	4 30	6 53	0 56	5 49	1 1	11 40	2 27	17 1	0 47	22 6	0 1	17 5	16 51	5 31	5 54	12 28			n.a.
M23	0 23	28 3	4 48	4 42	0 45	20 1	4 34	6 35	0 56	5 54	1 1	11 38	2 27	17 2	0 47	22 6	0 1	17 4	16 51	5 31	5 53	12 25			n.a.
T 24	0n 1	28 52	5 10	5 40	0 56	20 18	4 38	6 17	0 56	5 59	1 1	11 37	2 27	17 2	0 47	22 6	0 1	17 3	16 51	5 32	5 52	12 22			n.a.
W25	0 24	28 11	5 16	6 37	1 7	20 34	4 42	5 58	0 55	6 5	1 1	11 36	2 27	17 3	0 47	22 6	0 1	17 3	16 51	5 31	5 51	12 19			n.a.
T 26	0 48	26 9	5 9	7 32	1 18	20 50	4 45	5 40	0 55	6 10	1 1	11 35	2 28	17 3	0 47	22 6	0 1	17 2	16 51	5 31	5 49	12 16			n.a.
F 27	1 11	23 0	4 48	8 25	1 28	21 5	4 49	5 22	0 55	6 16	1 0	11 34	2 28	17 3	0 47	22 6	0 1	17 2	16 51	5 30	5 48	12 13			n.a.
S 28	1 34	18 55	4 15	9 17	1 38	21 20	4 52	5 4	0 54	6 21	1 0	11 33	2 28	17 4	0 46	22 6	0 1	17 1	16 51	5 30	5 47	12 10			n.a.
S 29	1 58	14 7	3 31	10 6	1 47	21 33	4 55	4 45	0 54	6 27	1 0	11 31	2 28	17 4	0 46	22 5	0 1	17 1	16 51	5 29	5 46	12 6			n.a.
M30	2 21	8 49	2 38	10 53	1 56	21 47	4 58	4 27	0 53	6 32	1 0	11 30	2 28	17 5	0 46	22 5	0 1	17 0	16 51	5 29	5 45	12 3			n.a.
T 31	2n44	3n11	1n38	11n38	2n 4	21n59	5n 0	4s 9	0s53	6n38	1s 0	11s29	2n28	17n 5	0n46	22s 5	0s 1	17s 0	16s51	5n29	5n43	12n 0			n.a.

Julian Day Number = 1671808.5, Delta T = 03h20m09s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'31, Lahiri = - 5°49'30 Julian Calendar 1 March 136 BCE == Greg. Calendar 26 Feb. 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

APRIL 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 24 16	7♈47'34	7♎45	26♈24	17♉51	22♓26	19♈18	6°R21	15°R34	20♑57	26♓ 2	13°R43	14♈18	6♍58	n.a.	W 1
T 2	12 28 12	8°45'37	19°49	27°56	18°22	23°11	19°32	6♏18	15♌33	20°58	26° 3	13°D43	14°15	7° 5	n.a.	T 2
F 3	12 32 9	9°43'39	2♏ 2	29°25	18°52	23°55	19°46	6°14	15°32	20°59	26° 5	13♈44	14°12	7°12	n.a.	F 3
S 4	12 36 5	10°41'39	14°26	0♉49	19°20	24°40	20° 0	6°10	15°30	21° 0	26° 6	13°44	14° 8	7°18	n.a.	S 4
S 5	12 40 2	11°39'37	27° 2	2° 8	19°46	25°25	20°14	6° 6	15°29	21° 0	26° 7	13°44	14° 5	7°25	n.a.	S 5
M 6	12 43 59	12°37'34	9♐53	3°24	20°11	26°10	20°28	6° 3	15°28	21° 1	26° 9	13°44	14° 2	7°32	n.a.	M 6
T 7	12 47 55	13°35'30	23° 0	4°35	20°34	26°55	20°43	5°59	15°27	21° 2	26°10	13°R44	13°59	7°38	n.a.	T 7
W 8	12 51 52	14°33'24	6♑25	5°42	20°55	27°39	20°57	5°55	15°26	21° 2	26°11	13°44	13°56	7°45	n.a.	W 8
T 9	12 55 48	15°31'17	20° 9	6°44	21°15	28°24	21°11	5°51	15°25	21° 3	26°13	13°D44	13°53	7°52	n.a.	T 9
F 10	12 59 45	16°29'08	4♒13	7°42	21°32	29° 9	21°25	5°47	15°24	21° 3	26°14	13°45	13°49	7°58	n.a.	F 10
S 11	13 3 41	17°26'59	18°36	8°36	21°48	29°53	21°39	5°43	15°24	21° 4	26°15	13°45	13°46	8° 5	n.a.	S 11
S 12	13 7 38	18°24'48	3♓13	9°24	22° 2	0♈38	21°53	5°39	15°23	21° 5	26°17	13°45	13°43	8°12	n.a.	S 12
M13	13 11 34	19°22'35	18° 2	10° 8	22°13	1°22	22° 7	5°34	15°22	21° 5	26°18	13°46	13°40	8°18	n.a.	M13
T 14	13 15 31	20°20'21	2♈54	10°48	22°23	2° 6	22°21	5°30	15°21	21° 5	26°19	13°46	13°37	8°25	n.a.	T 14
W15	13 19 28	21°18'06	17°44	11°22	22°30	2°51	22°36	5°26	15°21	21° 6	26°21	13°R46	13°33	8°32	n.a.	W15
T 16	13 23 24	22°15'49	2♉22	11°52	22°35	3°35	22°50	5°22	15°20	21° 6	26°22	13°46	13°30	8°38	n.a.	T 16
F 17	13 27 21	23°13'31	16°44	12°16	22°38	4°19	23° 4	5°18	15°20	21° 6	26°23	13°45	13°27	8°45	n.a.	F 17
S 18	13 31 17	24°11'11	0♊43	12°36	22°R38	5° 3	23°18	5°13	15°19	21° 7	26°25	13°44	13°24	8°52	n.a.	S 18
S 19	13 35 14	25° 8'50	14°18	12°51	22°36	5°47	23°32	5° 9	15°19	21° 7	26°26	13°42	13°21	8°58	n.a.	S 19
M20	13 39 10	26° 6'28	27°28	13° 1	22°32	6°31	23°46	5° 5	15°19	21° 7	26°27	13°41	13°18	9° 5	n.a.	M20
T 21	13 43 7	27° 4'03	10♋15	13° 6	22°25	7°15	24° 0	5° 0	15°18	21° 8	26°28	13°40	13°14	9°12	n.a.	T 21
W22	13 47 3	28° 1'37	22°42	13°R 6	22°16	7°59	24°14	4°56	15°18	21° 8	26°30	13°D39	13°11	9°18	n.a.	W22
T 23	13 51 0	28°59'10	4♌52	13° 2	22° 4	8°43	24°29	4°51	15°18	21° 8	26°31	13°39	13° 8	9°25	n.a.	T 23
F 24	13 54 57	29°56'41	16°51	12°53	21°50	9°27	24°43	4°47	15°18	21° 8	26°32	13°40	13° 5	9°32	n.a.	F 24
S 25	13 58 53	0♉54'10	28°43	12°40	21°34	10°11	24°57	4°43	15°18	21° 8	26°33	13°41	13° 2	9°38	n.a.	S 25
S 26	14 2 50	1°51'38	10♍32	12°23	21°15	10°54	25°11	4°38	15°D18	21° 8	26°34	13°43	12°58	9°45	n.a.	S 26
M27	14 6 46	2°49'05	22°23	12° 3	20°54	11°38	25°25	4°34	15°18	21°R 8	26°36	13°44	12°55	9°52	n.a.	M27
T 28	14 10 43	3°46'30	4♎19	11°39	20°31	12°22	25°39	4°29	15°18	21° 8	26°37	13°45	12°52	9°58	n.a.	T 28
W29	14 14 39	4°43'54	16°24	11°12	20° 5	13° 5	25°53	4°25	15°18	21° 8	26°38	13°R45	12°49	10° 5	n.a.	W29
T 30	14 18 36	5♉41'17	28♎40	10♉42	19♉38	13♈49	26♈ 7	4♏21	15♌18	21♑ 8	26♓39	13♈45	12♈46	10♍12	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	3n 8	2s36	0n33	12n21	2n12	22n11	5n 3	3s51	0s53	6n43	1s 0	11s28	2n28	17n 5	0n46	22s 5	0s 1	16s59	16s52	5n29	5n42	11n57		n.a.	W 1
T 2	3 31	8 21	0s34	13 1	2 19	22 22	5 5	3 32	0 52	6 48	1 0	11 26	2 28	17 6	0 46	22 5	0 1	16 59	16 52	5 29	5 41	11 54		n.a.	T 2
F 3	3 54	13 53	1 40	13 39	2 25	22 33	5 7	3 14	0 52	6 54	1 0	11 25	2 28	17 6	0 46	22 5	0 2	16 58	16 52	5 29	5 40	11 51		n.a.	F 3
S 4	4 17	18 56	2 42	14 14	2 30	22 42	5 9	2 56	0 51	6 59	1 0	11 24	2 28	17 6	0 46	22 5	0 2	16 58	16 52	5 29	5 38	11 47		n.a.	S 4
S 5	4 40	23 15	3 38	14 46	2 35	22 51	5 11	2 37	0 51	7 5	1 0	11 23	2 29	17 7	0 46	22 5	0 2	16 57	16 52	5 29	5 37	11 44		n.a.	S 5
M 6	5 3	26 32	4 24	15 16	2 39	22 59	5 12	2 19	0 51	7 10	1 0	11 21	2 29	17 7	0 46	22 5	0 2	16 57	16 52	5 29	5 36	11 41		n.a.	M 6
T 7	5 25	28 28	4 57	15 43	2 41	23 7	5 13	2 0	0 50	7 16	0 59	11 20	2 29	17 7	0 46	22 4	0 2	16 56	16 52	5 29	5 35	11 38		n.a.	T 7
W 8	5 48	28 48	5 15	16 8	2 43	23 13	5 14	1 42	0 50	7 21	0 59	11 18	2 29	17 8	0 46	22 4	0 2	16 56	16 52	5 29	5 33	11 35		n.a.	W 8
T 9	6 11	27 23	5 15	16 30	2 44	23 19	5 14	1 24	0 49	7 26	0 59	11 17	2 29	17 8	0 46	22 4	0 2	16 55	16 52	5 29	5 32	11 31		n.a.	T 9
F 10	6 33	24 14	4 57	16 50	2 44	23 24	5 14	1 5	0 49	7 32	0 59	11 16	2 29	17 8	0 46	22 4	0 2	16 55	16 52	5 29	5 31	11 28		n.a.	F 10
S 11	6 56	19 33	4 21	17 6	2 43	23 28	5 14	0 47	0 48	7 37	0 59	11 14	2 29	17 8	0 46	22 4	0 2	16 55	16 52	5 29	5 30	11 25		n.a.	S 11
S 12	7 18	13 38	3 27	17 20	2 42	23 31	5 14	0 29	0 48	7 43	0 59	11 13	2 29	17 8	0 46	22 4	0 2	16 54	16 53	5 29	5 28	11 22		n.a.	S 12
M13	7 40	6 54	2 18	17 32	2 39	23 34	5 13	0 11	0 48	7 48	0 59	11 11	2 29	17 9	0 46	22 4	0 2	16 54	16 53	5 29	5 27	11 19		n.a.	M13
T 14	8 2	0n15	1 0	17 41	2 35	23 35	5 11	0n 8	0 47	7 53	0 59	11 10	2 29	17 9	0 46	22 4	0 2	16 53	16 53	5 29	5 26	11 15		n.a.	T 14
W15	8 24	7 22	0n22	17 47	2 30	23 35	5 10	0 26	0 47	7 59	0 59	11 9	2 29	17 9	0 46	22 4	0 2	16 53	16 53	5 30	5 25	11 12		n.a.	W15
T 16	8 46	14 1	1 41	17 50	2 23	23 35	5 8	0 44	0 46	8 4	0 59	11 7	2 29	17 9	0 46	22 4	0 2	16 53	16 53	5 29	5 23	11 9		n.a.	T 16
F 17	9 8	19 47	2 53	17 51	2 16	23 33	5 5	1 2	0 46	8 9	0 59	11 6	2 29	17 9	0 46	22 4	0 2	16 52	16 53	5 29	5 22	11 6		n.a.	F 17
S 18	9 29	24 19	3 52	17 50	2 8	23 30	5 2	1 20	0 45	8 15	0 59	11 4	2 29	17 9	0 46	22 4	0 2	16 52	16 53	5 29	5 21	11 3		n.a.	S 18
S 19	9 50	27 21	4 36	17 45	1 59	23 26	4 59	1 38	0 45	8 20	0 59	11 3	2 29	17 9	0 46	22 4	0 2	16 51	16 54	5 28	5 20	10 59		n.a.	S 19
M20	10 12	28 45	5 4	17 39	1 48	23 21	4 55	1 57	0 44	8 25	0 59	11 1	2 29	17 9	0 46	22 4	0 2	16 51	16 54	5 28	5 18	10 56		n.a.	M20
T 21	10 33	28 34	5 16	17 29	1 37	23 15	4 50	2 15	0 44	8 31	0 58	11 0	2 29	17 9	0 46	22 4	0 2	16 51	16 54	5 27	5 17	10 53		n.a.	T 21
W22	10 54	26 55	5 13	17 18	1 25	23 8	4 45	2 33	0 43	8 36	0 58	10 58	2 29	17 9	0 46	22 4	0 2	16 50	16 54	5 27	5 16	10 50		n.a.	W22
T 23	11 14	24 2	4 55	17 4	1 12	23 0	4 40	2 50	0 43	8 41	0 58	10 57	2 29	17 9	0 46	22 4	0 2	16 50	16 54	5 27	5 15	10 46		n.a.	T 23
F 24	11 35	20 10	4 25	16 48	0 58	22 50	4 34	3 8	0 42	8 47	0 58	10 56	2 29	17 9	0 46	22 4	0 2	16 50	16 54	5 27	5 13	10 43		n.a.	F 24
S 25	11 55	15 33	3 44	16 30	0 43	22 39	4 27	3 26	0 42	8 52	0 58	10 54	2 29	17 9	0 46	22 4	0 2	16 49	16 55	5 28	5 12	10 40		n.a.	S 25
S 26	12 15	10 22	2 53	16 10	0 27	22 27	4 20	3 44	0 41	8 57	0 58	10 53	2 29	17 9	0 45	22 4	0 2	16 49	16 55	5 28	5 11	10 37		n.a.	S 26
M27	12 35	4 49	1 55	15 48	0 11	22 14	4 12	4 2	0 41	9 2	0 58	10 51	2 29	17 9	0 45	22 4	0 2	16 49	16 55	5 29	5 10	10 33		n.a.	M27
T 28	12 55	0s57	0 52	15 25	0s 6	21 59	4 4	4 19	0 40	9 7	0 58	10 50	2 29	17 9	0 45	22 4	0 2	16 49	16 55	5 29	5 8	10 30		n.a.	T 28
W29	13 15	6 45	0s15	15 0	0 23	21 44	3 55	4 37	0 40	9 13	0 58	10 48	2 29	17 9	0 45	22 4	0 2	16 48	16 55	5 29	5 7	10 27		n.a.	W29
T 30	13n34	12s23	1s21	14n35	0s40	21n27	3n45	4n54	0s39	9n18	0s58	10s47	2n29	17n 9	0n45	22s 4	0s 2	16s48	16s56	5n29	5n 6	10n24		n.a.	T 30

Julian Day Number = 1671839.5, Delta T = 03h20m08s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'27, Lahiri = - 5°49'26 Julian Calendar 1 Apr. 136 BCE == Greg. Calendar 29 March 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

MAY 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 22 32	6♉38'39	11♏ 8	10°R11	19°R 8	14♈32	26♈21	4°R16	15♌18	21°R 8	26♓40	13°R43	12♈43	10♍18	n.a.	F 1
S 2	14 26 29	7°36'00	23°50	9♉38	18♉37	15°15	26°35	4♏12	15°19	21♊ 8	26°41	13♈40	12°39	10°25	n.a.	S 2
S 3	14 30 26	8°33'20	6♐47	9° 5	18° 4	15°59	26°49	4° 7	15°19	21° 7	26°42	13°36	12°36	10°32	n.a.	S 3
M 4	14 34 22	9°30'39	19°57	8°31	17°30	16°42	27° 3	4° 3	15°19	21° 7	26°43	13°33	12°33	10°38	n.a.	M 4
T 5	14 38 19	10°27'58	3♑21	7°58	16°55	17°25	27°17	3°58	15°20	21° 7	26°45	13°29	12°30	10°45	n.a.	T 5
W 6	14 42 15	11°25'16	16°58	7°26	16°19	18° 8	27°31	3°54	15°20	21° 7	26°46	13°26	12°27	10°52	n.a.	W 6
T 7	14 46 12	12°22'33	0♒47	6°55	15°42	18°51	27°44	3°50	15°21	21° 6	26°47	13°24	12°24	10°58	n.a.	T 7
F 8	14 50 8	13°19'50	14°48	6°26	15° 5	19°34	27°58	3°45	15°21	21° 6	26°48	13°D24	12°20	11° 5	n.a.	F 8
S 9	14 54 5	14°17'06	28°58	5°59	14°27	20°17	28°12	3°41	15°22	21° 6	26°49	13°24	12°17	11°12	n.a.	S 9
S 10	14 58 1	15°14'22	13♓18	5°36	13°49	21° 0	28°26	3°37	15°23	21° 5	26°50	13°26	12°14	11°18	n.a.	S 10
M11	15 1 58	16°11'37	27°43	5°15	13°12	21°43	28°40	3°33	15°24	21° 5	26°51	13°27	12°11	11°25	n.a.	M11
T 12	15 5 55	17° 8'52	12♈10	4°59	12°35	22°26	28°53	3°28	15°24	21° 4	26°52	13°R28	12° 8	11°32	n.a.	T 12
W13	15 9 51	18° 6'06	26°36	4°46	11°59	23° 9	29° 7	3°24	15°25	21° 4	26°53	13°27	12° 4	11°38	n.a.	W13
T 14	15 13 48	19° 3'19	10♉55	4°37	11°23	23°51	29°21	3°20	15°26	21° 3	26°54	13°25	12° 1	11°45	n.a.	T 14
F 15	15 17 44	20° 0'33	25° 1	4°D33	10°49	24°34	29°35	3°16	15°27	21° 3	26°54	13°21	11°58	11°52	n.a.	F 15
S 16	15 21 41	20°57'45	8♊51	4°33	10°16	25°17	29°48	3°12	15°28	21° 2	26°55	13°16	11°55	11°58	n.a.	S 16
S 17	15 25 37	21°54'57	22°22	4°37	9°45	25°59	0♋ 2	3° 7	15°29	21° 2	26°56	13° 9	11°52	12° 5	n.a.	S 17
M18	15 29 34	22°52'09	5♋30	4°47	9°15	26°42	0°15	3° 3	15°30	21° 1	26°57	13° 3	11°49	12°12	n.a.	M18
T 19	15 33 30	23°49'20	18°17	5° 0	8°47	27°24	0°29	2°59	15°32	21° 0	26°58	12°58	11°45	12°18	n.a.	T 19
W20	15 37 27	24°46'30	0♌45	5°19	8°21	28° 6	0°42	2°55	15°33	21° 0	26°59	12°53	11°42	12°25	n.a.	W20
T 21	15 41 24	25°43'39	12°56	5°42	7°57	28°49	0°56	2°52	15°34	20°59	27° 0	12°51	11°39	12°32	n.a.	T 21
F 22	15 45 20	26°40'48	24°56	6° 9	7°35	29°31	1° 9	2°48	15°35	20°58	27° 1	12°D50	11°36	12°38	n.a.	F 22
S 23	15 49 17	27°37'56	6♍47	6°41	7°15	0♉13	1°22	2°44	15°37	20°57	27° 1	12°50	11°33	12°45	n.a.	S 23
S 24	15 53 13	28°35'03	18°37	7°18	6°58	0°55	1°36	2°40	15°38	20°56	27° 2	12°51	11°30	12°52	n.a.	S 24
M25	15 57 10	29°32'10	0♎29	7°59	6°43	1°37	1°49	2°36	15°40	20°56	27° 3	12°53	11°26	12°58	n.a.	M25
T 26	16 1 6	0♊29'16	12°29	8°44	6°31	2°19	2° 2	2°33	15°41	20°55	27° 4	12°R53	11°23	13° 5	n.a.	T 26
W27	16 5 3	1°26'22	24°41	9°33	6°20	3° 1	2°15	2°29	15°43	20°54	27° 4	12°53	11°20	13°12	n.a.	W27
T 28	16 8 59	2°23'28	7♏ 8	10°27	6°13	3°43	2°28	2°26	15°44	20°53	27° 5	12°50	11°17	13°18	n.a.	T 28
F 29	16 12 56	3°20'34	19°52	11°25	6° 7	4°25	2°41	2°22	15°46	20°52	27° 6	12°45	11°14	13°25	n.a.	F 29
S 30	16 16 53	4°17'39	2♐54	12°26	6° 4	5° 6	2°54	2°19	15°48	20°51	27° 6	12°38	11°10	13°32	n.a.	S 30
S 31	16 20 49	5♊14'44	16♐13	13♉32	6°D 4	5♉48	3♉ 7	2♏15	15♌50	20♑50	27♓ 7	12♈30	11♈ 7	13♍38	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n53	17s38	2s25	14n 8	0s57	21n 9	3n35	5n12	0s39	9n23	0s58	10s45	2n29	17n 9	0n45	22s 4	0s 2	16s48	16s56	5n28	5n 5	10n20		n.a.
S 2	14 12	22 13	3 23	13 42	1 14	20 50	3 24	5 29	0 38	9 28	0 58	10 44	2 29	17 9	0 45	22 4	0 2	16 47	16 56	5 27	5 3	10 17		n.a.
S 3	14 31	25 49	4 11	13 15	1 31	20 30	3 13	5 47	0 38	9 33	0 58	10 42	2 29	17 9	0 45	22 4	0 2	16 47	16 56	5 26	5 2	10 14		n.a.
M 4	14 50	28 6	4 47	12 49	1 47	20 9	3 2	6 4	0 37	9 38	0 58	10 41	2 29	17 9	0 45	22 4	0 2	16 47	16 56	5 24	5 1	10 11		n.a.
T 5	15 8	28 49	5 8	12 23	2 3	19 47	2 50	6 21	0 37	9 43	0 58	10 40	2 29	17 8	0 45	22 4	0 2	16 47	16 57	5 23	5 0	10 7		n.a.
W 6	15 26	27 47	5 13	11 58	2 19	19 25	2 37	6 38	0 36	9 48	0 58	10 38	2 28	17 8	0 45	22 4	0 2	16 47	16 57	5 22	4 58	10 4		n.a.
T 7	15 44	25 4	4 59	11 34	2 33	19 2	2 24	6 55	0 35	9 54	0 58	10 37	2 28	17 8	0 45	22 4	0 2	16 46	16 57	5 21	4 57	10 1		n.a.
F 8	16 1	20 50	4 28	11 12	2 46	18 38	2 11	7 12	0 35	9 59	0 58	10 35	2 28	17 8	0 45	22 4	0 2	16 46	16 57	5 21	4 56	9 58		n.a.
S 9	16 18	15 23	3 40	10 52	2 59	18 14	1 58	7 29	0 34	10 4	0 58	10 34	2 28	17 8	0 45	22 4	0 2	16 46	16 58	5 21	4 55	9 54		n.a.
S 10	16 36	9 3	2 38	10 33	3 10	17 49	1 44	7 46	0 34	10 9	0 58	10 33	2 28	17 7	0 45	22 4	0 2	16 46	16 58	5 22	4 53	9 51		n.a.
M11	16 52	2 13	1 25	10 17	3 20	17 24	1 30	8 3	0 33	10 13	0 58	10 31	2 28	17 7	0 45	22 4	0 2	16 46	16 58	5 22	4 52	9 48		n.a.
T 12	17 9	4n45	0 7	10 3	3 29	17 0	1 16	8 19	0 33	10 18	0 58	10 30	2 28	17 7	0 45	22 4	0 2	16 45	16 58	5 22	4 51	9 45		n.a.
W13	17 25	11 29	1n11	9 51	3 37	16 35	1 2	8 36	0 32	10 23	0 58	10 29	2 28	17 7	0 45	22 5	0 2	16 45	16 59	5 22	4 50	9 41		n.a.
T 14	17 41	17 33	2 24	9 42	3 43	16 11	0 48	8 52	0 31	10 28	0 58	10 27	2 28	17 6	0 45	22 5	0 2	16 45	16 59	5 21	4 48	9 38		n.a.
F 15	17 57	22 35	3 27	9 36	3 48	15 47	0 34	9 9	0 31	10 33	0 58	10 26	2 28	17 6	0 45	22 5	0 2	16 45	16 59	5 20	4 47	9 35		n.a.
S 16	18 12	26 15	4 16	9 32	3 52	15 23	0 20	9 25	0 30	10 38	0 58	10 25	2 27	17 6	0 45	22 5	0 2	16 45	16 59	5 18	4 46	9 31		n.a.
S 17	18 27	28 19	4 50	9 31	3 55	15 0	0 6	9 41	0 30	10 43	0 58	10 23	2 27	17 5	0 45	22 5	0 2	16 45	17 0	5 15	4 45	9 28		n.a.
M18	18 42	28 43	5 7	9 33	3 57	14 38	0s 7	9 57	0 29	10 48	0 58	10 22	2 27	17 5	0 45	22 5	0 2	16 45	17 0	5 13	4 43	9 25		n.a.
T 19	18 57	27 33	5 9	9 37	3 57	14 16	0 21	10 13	0 29	10 52	0 58	10 21	2 27	17 4	0 45	22 5	0 2	16 45	17 0	5 11	4 42	9 22		n.a.
W20	19 11	25 1	4 55	9 43	3 57	13 55	0 34	10 29	0 28	10 57	0 58	10 20	2 27	17 4	0 45	22 5	0 2	16 45	17 1	5 9	4 41	9 18		n.a.
T 21	19 25	21 24	4 29	9 52	3 55	13 35	0 46	10 45	0 27	11 2	0 58	10 18	2 27	17 4	0 45	22 5	0 2	16 45	17 1	5 8	4 40	9 15		n.a.
F 22	19 38	16 58	3 50	10 4	3 53	13 17	0 59	11 1	0 27	11 7	0 58	10 17	2 27	17 3	0 44	22 6	0 2	16 44	17 1	5 7	4 38	9 12		n.a.
S 23	19 51	11 57	3 3	10 18	3 49	12 59	1 11	11 16	0 26	11 11	0 58	10 16	2 26	17 3	0 44	22 6	0 2	16 44	17 1	5 8	4 37	9 8		n.a.
S 24	20 4	6 30	2 8	10 34	3 45	12 42	1 22	11 32	0 26	11 16	0 58	10 15	2 26	17 2	0 44	22 6	0 2	16 44	17 2	5 8	4 36	9 5		n.a.
M25	20 17	0 49	1 7	10 52	3 40	12 27	1 33	11 47	0 25	11 21	0 58	10 14	2 26	17 2	0 44	22 6	0 2	16 44	17 2	5 9	4 34	9 2		n.a.
T 26	20 29	4s57	0 2	11 12	3 34	12 12	1 44	12 2	0 24	11 25	0 58	10 13	2 26	17 1	0 44	22 6	0 2	16 44	17 2	5 9	4 33	8 58		n.a.
W27	20 41	10 39	1s 3	11 34	3 27	11 59	1 55	12 17	0 24	11 30	0 58	10 12	2 26	17 1	0 44	22 6	0 2	16 44	17 3	5 9	4 32	8 55		n.a.
T 28	20 53	16 3	2 7	11 58	3 19	11 47	2 4	12 32	0 23	11 34	0 58	10 11	2 26	17 0	0 44	22 6	0 2	16 44	17 3	5 7	4 31	8 52		n.a.
F 29	21 4	20 53	3 6	12 24	3 11	11 37	2 14	12 47	0 22	11 39	0 58	10 10	2 25	17 0	0 44	22 7	0 2	16 44	17 3	5 6	4 29	8 48		n.a.
S 30	21 15	24 50	3 56	12 51	3 2	11 27	2 23	13 2	0 22	11 43	0 58	10 8	2 25	16 59	0 44	22 7	0 2	16 44	17 4	5 3	4 28	8 45		n.a.
S 31	21n25	27s32	4s34	13n20	2s53	11n19	2s31	13n16	0s21	11n48	0s58	10s 8	2n25	16n59	0n44	22s 7	0s 2	16s44	17s 4	5n 0	4n27	8n42		n.a.

Julian Day Number = 1671869.5, Delta T = 03h20m07s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'23, Lahiri = - 5°49'22 Julian Calendar 1 May 136 BCE == Greg. Calendar 28 Apr. 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

JUNE 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 24 46	6♊11'50	29♐48	14♉42	6♉ 5	6♉30	3♉20	2°R12	15♌51	20°R49	27♓ 8	12°R22	11♈ 4	13♍45	n.a.	M 1
T 2	16 28 42	7° 8'55	13♑36	15°56	6° 9	7°11	3°33	2♏ 9	15°53	20♑48	27° 8	12♈13	11° 1	13°52	n.a.	T 2
W 3	16 32 39	8° 6'01	27°34	17°13	6°15	7°53	3°46	2° 6	15°55	20°47	27° 9	12° 6	10°58	13°58	n.a.	W 3
T 4	16 36 35	9° 3'07	11♒38	18°35	6°24	8°34	3°59	2° 3	15°57	20°46	27° 9	12° 1	10°55	14° 5	n.a.	T 4
F 5	16 40 32	10° 0'13	25°46	20° 0	6°34	9°16	4°11	1°59	15°59	20°45	27°10	11°58	10°51	14°12	n.a.	F 5
S 6	16 44 29	10°57'20	9♓55	21°29	6°47	9°57	4°24	1°57	16° 1	20°44	27°10	11°D57	10°48	14°18	n.a.	S 6
S 7	16 48 25	11°54'27	24° 4	23° 2	7° 1	10°38	4°36	1°54	16° 3	20°42	27°11	11°58	10°45	14°25	n.a.	S 7
M 8	16 52 22	12°51'34	8♈12	24°38	7°18	11°20	4°49	1°51	16° 5	20°41	27°11	11°R58	10°42	14°32	n.a.	M 8
T 9	16 56 18	13°48'42	22°17	26°17	7°36	12° 1	5° 1	1°48	16° 8	20°40	27°12	11°58	10°39	14°38	n.a.	T 9
W10	17 0 15	14°45'51	6♉17	28° 0	7°57	12°42	5°14	1°45	16°10	20°39	27°12	11°56	10°36	14°45	n.a.	W10
T 11	17 4 11	15°43'00	20°11	29°46	8°19	13°23	5°26	1°43	16°12	20°37	27°13	11°51	10°32	14°52	n.a.	T 11
F 12	17 8 8	16°40'10	3♊54	1♊36	8°42	14° 4	5°38	1°40	16°14	20°36	27°13	11°44	10°29	14°58	n.a.	F 12
S 13	17 12 4	17°37'20	17°26	3°28	9° 8	14°45	5°50	1°38	16°17	20°35	27°14	11°34	10°26	15° 5	n.a.	S 13
S 14	17 16 1	18°34'30	0♋41	5°23	9°35	15°26	6° 3	1°36	16°19	20°34	27°14	11°23	10°23	15°12	n.a.	S 14
M15	17 19 58	19°31'41	13°40	7°21	10° 3	16° 7	6°15	1°33	16°21	20°32	27°14	11°12	10°20	15°18	n.a.	M15
T 16	17 23 54	20°28'52	26°21	9°21	10°33	16°47	6°26	1°31	16°24	20°31	27°15	11° 2	10°16	15°25	n.a.	T 16
W17	17 27 51	21°26'04	8♌44	11°23	11° 4	17°28	6°38	1°29	16°26	20°30	27°15	10°53	10°13	15°32	n.a.	W17
T 18	17 31 47	22°23'16	20°53	13°26	11°37	18° 9	6°50	1°27	16°29	20°28	27°15	10°46	10°10	15°38	n.a.	T 18
F 19	17 35 44	23°20'28	2♍51	15°31	12°11	18°49	7° 2	1°25	16°32	20°27	27°15	10°42	10° 7	15°45	n.a.	F 19
S 20	17 39 40	24°17'40	14°42	17°37	12°46	19°30	7°13	1°23	16°34	20°25	27°16	10°40	10° 4	15°51	n.a.	S 20
S 21	17 43 37	25°14'53	26°31	19°44	13°23	20°10	7°25	1°22	16°37	20°24	27°16	10°D40	10° 1	15°58	n.a.	S 21
M22	17 47 34	26°12'06	8♎24	21°51	14° 0	20°51	7°36	1°20	16°40	20°23	27°16	10°R40	9°57	16° 5	n.a.	M22
T 23	17 51 30	27° 9'19	20°25	23°59	14°39	21°31	7°48	1°18	16°42	20°21	27°16	10°40	9°54	16°11	n.a.	T 23
W24	17 55 27	28° 6'34	2♏40	26° 6	15°19	22°11	7°59	1°17	16°45	20°20	27°16	10°38	9°51	16°18	n.a.	W24
T 25	17 59 23	29° 3'48	15°14	28°14	16° 0	22°51	8°10	1°16	16°48	20°18	27°17	10°34	9°48	16°25	n.a.	T 25
F 26	18 3 20	0♋ 1'03	28° 9	0♋20	16°42	23°31	8°21	1°14	16°51	20°17	27°17	10°28	9°45	16°31	n.a.	F 26
S 27	18 7 16	0°58'19	11♐26	2°26	17°25	24°12	8°33	1°13	16°54	20°15	27°17	10°19	9°42	16°38	n.a.	S 27
S 28	18 11 13	1°55'36	25° 6	4°31	18° 9	24°52	8°43	1°12	16°56	20°14	27°17	10° 8	9°38	16°45	n.a.	S 28
M29	18 15 9	2°52'54	9♑ 5	6°34	18°53	25°32	8°54	1°11	16°59	20°12	27°17	9°56	9°35	16°51	n.a.	M29
T 30	18 19 6	3♋50'12	23♑20	8♋37	19♉39	26♉11	9♉ 5	1♏10	17♌ 2	20♑10	27♓17	9♈45	9♈32	16♍58	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n35	28s41	4s58	13n50	2s43	11n12	2s40	13n31	0s21	11n52	0s58	10s 7	2n25	16n58	0n44	22s 7	0s 2	16s44	17s 4	4n56	4n26	8n39		n.a.
T 2	21 45	28 4	5 5	14 21	2 33	11 6	2 47	13 45	0 20	11 56	0 58	10 6	2 25	16 57	0 44	22 7	0 2	16 44	17 5	4 53	4 24	8 35		n.a.
W 3	21 55	25 42	4 55	14 54	2 22	11 1	2 55	13 59	0 19	12 1	0 58	10 5	2 25	16 57	0 44	22 7	0 2	16 45	17 5	4 50	4 23	8 32		n.a.
T 4	22 4	21 45	4 26	15 27	2 11	10 57	3 1	14 14	0 19	12 5	0 58	10 4	2 24	16 56	0 44	22 8	0 2	16 45	17 5	4 48	4 22	8 29		n.a.
F 5	22 12	16 32	3 41	16 1	2 0	10 55	3 8	14 28	0 18	12 9	0 58	10 3	2 24	16 56	0 44	22 8	0 2	16 45	17 6	4 47	4 21	8 25		n.a.
S 6	22 21	10 27	2 43	16 36	1 48	10 53	3 14	14 41	0 17	12 14	0 58	10 2	2 24	16 55	0 44	22 8	0 2	16 45	17 6	4 47	4 19	8 22		n.a.
S 7	22 29	3 49	1 34	17 12	1 36	10 53	3 19	14 55	0 17	12 18	0 58	10 1	2 24	16 54	0 44	22 8	0 2	16 45	17 6	4 47	4 18	8 19		n.a.
M 8	22 36	2n59	0 20	17 47	1 24	10 53	3 25	15 9	0 16	12 22	0 58	10 1	2 24	16 54	0 44	22 8	0 2	16 45	17 7	4 47	4 17	8 15		n.a.
T 9	22 43	9 37	0n55	18 23	1 11	10 54	3 30	15 22	0 15	12 26	0 58	10 0	2 23	16 53	0 44	22 9	0 2	16 45	17 7	4 47	4 16	8 12		n.a.
W10	22 50	15 45	2 6	18 59	0 59	10 57	3 34	15 35	0 15	12 30	0 58	9 59	2 23	16 52	0 44	22 9	0 2	16 45	17 7	4 46	4 14	8 9		n.a.
T 11	22 56	21 1	3 9	19 34	0 47	11 0	3 38	15 49	0 14	12 35	0 58	9 58	2 23	16 51	0 44	22 9	0 2	16 45	17 8	4 44	4 13	8 5		n.a.
F 12	23 2	25 6	4 0	20 9	0 34	11 4	3 42	16 2	0 14	12 39	0 58	9 58	2 23	16 51	0 44	22 9	0 2	16 46	17 8	4 41	4 12	8 2		n.a.
S 13	23 8	27 42	4 36	20 43	0 22	11 8	3 46	16 15	0 13	12 43	0 58	9 57	2 22	16 50	0 44	22 9	0 2	16 46	17 8	4 38	4 11	7 58		n.a.
S 14	23 13	28 40	4 57	21 17	0 10	11 14	3 49	16 27	0 12	12 47	0 58	9 56	2 22	16 49	0 44	22 10	0 2	16 46	17 9	4 33	4 9	7 55		n.a.
M15	23 18	28 1	5 2	21 48	0n 1	11 20	3 52	16 40	0 12	12 51	0 58	9 56	2 22	16 48	0 44	22 10	0 2	16 46	17 9	4 29	4 8	7 52		n.a.
T 16	23 22	25 54	4 52	22 19	0 12	11 27	3 54	16 52	0 11	12 55	0 58	9 55	2 22	16 48	0 44	22 10	0 2	16 46	17 9	4 25	4 7	7 48		n.a.
W17	23 26	22 35	4 28	22 47	0 23	11 34	3 57	17 5	0 10	12 59	0 58	9 55	2 22	16 47	0 44	22 10	0 3	16 46	17 10	4 21	4 6	7 45		n.a.
T 18	23 30	18 21	3 52	23 14	0 34	11 43	3 59	17 17	0 9	13 2	0 58	9 54	2 21	16 46	0 44	22 11	0 3	16 47	17 10	4 19	4 4	7 42		n.a.
F 19	23 33	13 28	3 7	23 38	0 44	11 51	4 0	17 29	0 9	13 6	0 58	9 54	2 21	16 45	0 44	22 11	0 3	16 47	17 10	4 17	4 3	7 38		n.a.
S 20	23 35	8 8	2 13	24 0	0 53	12 0	4 2	17 41	0 8	13 10	0 58	9 54	2 21	16 44	0 44	22 11	0 3	16 47	17 11	4 16	4 2	7 35		n.a.
S 21	23 38	2 32	1 14	24 20	1 1	12 10	4 3	17 52	0 7	13 14	0 58	9 53	2 21	16 44	0 43	22 11	0 3	16 47	17 11	4 16	4 1	7 32		n.a.
M22	23 40	3s11	0 12	24 37	1 9	12 20	4 4	18 4	0 7	13 17	0 58	9 53	2 20	16 43	0 43	22 11	0 3	16 48	17 11	4 16	3 59	7 28		n.a.
T 23	23 41	8 52	0s52	24 51	1 17	12 31	4 5	18 15	0 6	13 21	0 58	9 52	2 20	16 42	0 43	22 12	0 3	16 48	17 12	4 16	3 58	7 25		n.a.
W24	23 42	14 19	1 54	25 3	1 23	12 42	4 6	18 26	0 5	13 25	0 58	9 52	2 20	16 41	0 43	22 12	0 3	16 48	17 12	4 15	3 57	7 22		n.a.
T 25	23 43	19 20	2 52	25 11	1 29	12 54	4 6	18 37	0 5	13 28	0 58	9 52	2 20	16 40	0 43	22 12	0 3	16 48	17 12	4 14	3 55	7 18		n.a.
F 26	23 43	23 36	3 43	25 17	1 34	13 5	4 6	18 48	0 4	13 32	0 58	9 52	2 19	16 39	0 43	22 12	0 3	16 49	17 13	4 11	3 54	7 15		n.a.
S 27	23 43	26 46	4 24	25 20	1 38	13 17	4 6	18 59	0 3	13 35	0 58	9 52	2 19	16 38	0 43	22 13	0 3	16 49	17 13	4 8	3 53	7 11		n.a.
S 28	23 42	28 28	4 50	25 20	1 42	13 30	4 6	19 9	0 3	13 39	0 58	9 51	2 19	16 37	0 43	22 13	0 3	16 49	17 14	4 3	3 52	7 8		n.a.
M29	23 41	28 24	5 1	25 17	1 45	13 43	4 5	19 20	0 2	13 42	0 59	9 51	2 19	16 37	0 43	22 13	0 3	16 49	17 14	3 59	3 50	7 5		n.a.
T 30	23n39	26s28	4s52	25n12	1n47	13n55	4s 5	19n30	0s 1	13n46	0s59	9s51	2n18	16n36	0n43	22s13	0s 3	16s50	17s14	3n54	3n49	7n 1		n.a.

Julian Day Number = 1671900.5, Delta T = 03h20m06s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'18, Lahiri = - 5°49'18 Julian Calendar 1 June 136 BCE == Greg. Calendar 29 May 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

JULY 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 23 3	4♋47'32	7♒43	10♋38	20♉25	26♉51	9♉16	1°R 9	17♌ 5	20°R 9	27°R17	9°R35	9♈29	17♍ 5	n.a.	W 1
T 2	18 26 59	5°44'53	22°10	12°38	21°13	27°31	9°26	1♏ 9	17° 8	20♎ 7	27♓17	9♈28	9°26	17°11	n.a.	T 2
F 3	18 30 56	6°42'14	6♓34	14°36	22° 1	28°11	9°37	1° 8	17°11	20° 6	27°17	9°24	9°22	17°18	n.a.	F 3
S 4	18 34 52	7°39'38	20°53	16°33	22°50	28°50	9°47	1° 7	17°15	20° 4	27°17	9°22	9°19	17°25	n.a.	S 4
S 5	18 38 49	8°37'02	5♈ 3	18°28	23°39	29°30	9°57	1° 7	17°18	20° 3	27°17	9°21	9°16	17°31	n.a.	S 5
M 6	18 42 45	9°34'28	19° 3	20°22	24°29	0♊10	10° 8	1° 7	17°21	20° 1	27°17	9°21	9°13	17°38	n.a.	M 6
T 7	18 46 42	10°31'55	2♉54	22°15	25°20	0°49	10°18	1° 6	17°24	19°59	27°16	9°20	9°10	17°45	n.a.	T 7
W 8	18 50 38	11°29'24	16°35	24° 5	26°12	1°29	10°28	1° 6	17°27	19°58	27°16	9°17	9° 7	17°51	n.a.	W 8
T 9	18 54 35	12°26'54	0♊ 5	25°54	27° 4	2° 8	10°37	1°D 6	17°30	19°56	27°16	9°11	9° 3	17°58	n.a.	T 9
F 10	18 58 32	13°24'26	13°26	27°42	27°57	2°47	10°47	1° 6	17°34	19°55	27°16	9° 3	9° 0	18° 5	n.a.	F 10
S 11	19 2 28	14°21'59	26°34	29°28	28°50	3°27	10°57	1° 6	17°37	19°53	27°16	8°52	8°57	18°11	n.a.	S 11
S 12	19 6 25	15°19'33	9♋30	1♌13	29°44	4° 6	11° 6	1° 6	17°40	19°51	27°16	8°39	8°54	18°18	n.a.	S 12
M13	19 10 21	16°17'09	22°13	2°56	0♊39	4°45	11°16	1° 7	17°44	19°50	27°15	8°26	8°51	18°25	n.a.	M13
T 14	19 14 18	17°14'46	4♌42	4°37	1°34	5°24	11°25	1° 7	17°47	19°48	27°15	8°14	8°48	18°31	n.a.	T 14
W15	19 18 14	18°12'24	16°57	6°17	2°30	6° 3	11°34	1° 8	17°50	19°46	27°15	8° 3	8°44	18°38	n.a.	W15
T 16	19 22 11	19°10'04	29° 1	7°56	3°26	6°42	11°43	1° 8	17°54	19°45	27°14	7°55	8°41	18°45	n.a.	T 16
F 17	19 26 8	20° 7'45	10♍55	9°33	4°22	7°21	11°52	1° 9	17°57	19°43	27°14	7°50	8°38	18°51	n.a.	F 17
S 18	19 30 4	21° 5'26	22°43	11° 9	5°19	7°59	12° 1	1°10	18° 1	19°42	27°14	7°47	8°35	18°58	n.a.	S 18
S 19	19 34 1	22° 3'09	4♎31	12°43	6°17	8°38	12° 9	1°11	18° 4	19°40	27°13	7°D46	8°32	19° 5	n.a.	S 19
M20	19 37 57	23° 0'54	16°22	14°15	7°15	9°17	12°18	1°12	18° 8	19°38	27°13	7°47	8°28	19°11	n.a.	M20
T 21	19 41 54	23°58'39	28°22	15°47	8°13	9°55	12°26	1°13	18°11	19°37	27°13	7°R47	8°25	19°18	n.a.	T 21
W22	19 45 50	24°56'26	10♏37	17°16	9°12	10°34	12°34	1°14	18°15	19°35	27°12	7°45	8°22	19°25	n.a.	W22
T 23	19 49 47	25°54'14	23°11	18°44	10°11	11°12	12°43	1°15	18°18	19°33	27°12	7°43	8°19	19°31	n.a.	T 23
F 24	19 53 43	26°52'04	6♐ 9	20°11	11°10	11°51	12°51	1°17	18°22	19°32	27°11	7°37	8°16	19°38	n.a.	F 24
S 25	19 57 40	27°49'55	19°34	21°36	12°10	12°29	12°58	1°18	18°25	19°30	27°11	7°30	8°13	19°44	n.a.	S 25
S 26	20 1 36	28°47'47	3♑25	23° 0	13°10	13° 7	13° 6	1°20	18°29	19°29	27°10	7°20	8° 9	19°51	n.a.	S 26
M27	20 5 33	29°45'41	17°41	24°22	14°11	13°46	13°14	1°21	18°33	19°27	27°10	7°10	8° 6	19°58	n.a.	M27
T 28	20 9 30	0♌43'36	2♒16	25°42	15°12	14°24	13°21	1°23	18°36	19°25	27° 9	7° 0	8° 3	20° 4	n.a.	T 28
W29	20 13 26	1°41'34	17° 3	27° 1	16°13	15° 2	13°28	1°25	18°40	19°24	27° 9	6°51	8° 0	20°11	n.a.	W29
T 30	20 17 23	2°39'32	1♓54	28°18	17°15	15°40	13°36	1°27	18°44	19°22	27° 8	6°45	7°57	20°18	n.a.	T 30
F 31	20 21 19	3♌37'33	16♓41	29♌33	18♊17	16♊18	13♉43	1♏29	18♌47	19♎21	27♓ 7	6♈41	7♈54	20♍24	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	23n38	22s49	4s26	25n 5	1n48	14n 9	4s 4	19n40	0s 1	13n49	0s59	9s51	2n18	16n35	0n43	22s14	0s 3	16s50	17s15	3n51	3n48	6n58			n.a.
T 2	23 35	17 46	3 42	24 55	1 49	14 22	4 3	19 50	0n 0	13 53	0 59	9 51	2 18	16 34	0 43	22 14	0 3	16 50	17 15	3 48	3 47	6 55			n.a.
F 3	23 33	11 44	2 44	24 43	1 49	14 35	4 2	20 0	0 1	13 56	0 59	9 51	2 18	16 33	0 43	22 14	0 3	16 51	17 15	3 46	3 45	6 51			n.a.
S 4	23 29	5 7	1 36	24 28	1 49	14 49	4 0	20 9	0 2	13 59	0 59	9 51	2 17	16 32	0 43	22 14	0 3	16 51	17 16	3 45	3 44	6 48			n.a.
S 5	23 26	1n41	0 23	24 12	1 48	15 3	3 59	20 19	0 2	14 2	0 59	9 51	2 17	16 31	0 43	22 15	0 3	16 51	17 16	3 45	3 43	6 44			n.a.
M 6	23 22	8 20	0n51	23 54	1 46	15 17	3 57	20 28	0 3	14 5	0 59	9 51	2 17	16 30	0 43	22 15	0 3	16 52	17 16	3 45	3 42	6 41			n.a.
T 7	23 17	14 30	2 1	23 34	1 44	15 31	3 55	20 37	0 4	14 9	0 59	9 52	2 17	16 29	0 43	22 15	0 3	16 52	17 17	3 44	3 40	6 38			n.a.
W 8	23 13	19 54	3 3	23 12	1 41	15 45	3 53	20 46	0 5	14 12	0 59	9 52	2 16	16 28	0 43	22 15	0 3	16 53	17 17	3 43	3 39	6 34			n.a.
T 9	23 7	24 12	3 54	22 49	1 38	15 58	3 51	20 55	0 5	14 15	0 59	9 52	2 16	16 27	0 43	22 16	0 3	16 53	17 17	3 41	3 38	6 31			n.a.
F 10	23 2	27 9	4 31	22 24	1 34	16 12	3 49	21 3	0 6	14 18	0 59	9 52	2 16	16 26	0 43	22 16	0 3	16 53	17 18	3 38	3 37	6 27			n.a.
S 11	22 56	28 33	4 53	21 58	1 30	16 26	3 47	21 12	0 7	14 21	0 59	9 53	2 16	16 25	0 43	22 16	0 3	16 54	17 18	3 33	3 35	6 24			n.a.
S 12	22 49	28 21	5 0	21 30	1 26	16 40	3 45	21 20	0 7	14 24	0 59	9 53	2 15	16 24	0 43	22 16	0 3	16 54	17 18	3 28	3 34	6 21			n.a.
M13	22 42	26 39	4 52	21 2	1 21	16 54	3 42	21 28	0 8	14 26	0 59	9 53	2 15	16 23	0 43	22 17	0 3	16 54	17 19	3 23	3 33	6 17			n.a.
T 14	22 35	23 40	4 29	20 33	1 15	17 8	3 39	21 36	0 9	14 29	0 59	9 54	2 15	16 22	0 43	22 17	0 3	16 55	17 19	3 18	3 31	6 14			n.a.
W15	22 28	19 39	3 55	20 2	1 10	17 21	3 37	21 43	0 10	14 32	1 0	9 54	2 14	16 20	0 43	22 17	0 3	16 55	17 19	3 14	3 30	6 10			n.a.
T 16	22 20	14 55	3 10	19 31	1 4	17 35	3 34	21 51	0 10	14 35	1 0	9 55	2 14	16 19	0 43	22 17	0 3	16 56	17 20	3 11	3 29	6 7			n.a.
F 17	22 11	9 40	2 17	18 59	0 57	17 48	3 31	21 58	0 11	14 37	1 0	9 55	2 14	16 18	0 43	22 18	0 3	16 56	17 20	3 9	3 28	6 4			n.a.
S 18	22 2	4 8	1 19	18 26	0 51	18 2	3 28	22 5	0 12	14 40	1 0	9 56	2 14	16 17	0 43	22 18	0 3	16 57	17 20	3 7	3 26	6 0			n.a.
S 19	21 53	1s33	0 17	17 53	0 44	18 15	3 25	22 12	0 13	14 43	1 0	9 56	2 13	16 16	0 43	22 18	0 3	16 57	17 21	3 7	3 25	5 57			n.a.
M20	21 44	7 12	0s46	17 19	0 36	18 27	3 22	22 19	0 13	14 45	1 0	9 57	2 13	16 15	0 43	22 18	0 3	16 57	17 21	3 7	3 24	5 53			n.a.
T 21	21 34	12 41	1 47	16 45	0 29	18 40	3 18	22 26	0 14	14 48	1 0	9 57	2 13	16 14	0 43	22 19	0 3	16 58	17 21	3 7	3 23	5 50			n.a.
W22	21 23	17 47	2 45	16 10	0 21	18 52	3 15	22 32	0 15	14 50	1 0	9 58	2 13	16 13	0 43	22 19	0 3	16 58	17 22	3 7	3 21	5 47			n.a.
T 23	21 12	22 16	3 37	15 36	0 13	19 4	3 11	22 38	0 16	14 53	1 0	9 59	2 12	16 12	0 43	22 19	0 3	16 59	17 22	3 6	3 20	5 43			n.a.
F 24	21 1	25 50	4 19	15 0	0 5	19 16	3 8	22 44	0 16	14 55	1 0	9 59	2 12	16 11	0 43	22 19	0 3	16 59	17 22	3 3	3 19	5 40			n.a.
S 25	20 50	28 5	4 48	14 25	0s 3	19 28	3 4	22 50	0 17	14 57	1 0	10 0	2 12	16 9	0 43	22 20	0 3	17 0	17 23	3 0	3 18	5 36			n.a.
S 26	20 38	28 42	5 2	13 50	0 12	19 39	3 1	22 56	0 18	14 59	1 0	10 1	2 12	16 8	0 43	22 20	0 3	17 0	17 23	2 57	3 16	5 33			n.a.
M27	20 26	27 27	4 58	13 14	0 20	19 50	2 57	23 1	0 19	15 2	1 1	10 2	2 11	16 7	0 43	22 20	0 3	17 1	17 23	2 52	3 15	5 30			n.a.
T 28	20 13	24 20	4 34	12 39	0 29	20 1	2 53	23 7	0 19	15 4	1 1	10 3	2 11	16 6	0 43	22 20	0 3	17 1	17 24	2 48	3 14	5 26			n.a.
W29	20 1	19 35	3 52	12 3	0 38	20 11	2 49	23 12	0 20	15 6	1 1	10 4	2 11	16 5	0 43	22 21	0 3	17 2	17 24	2 45	3 12	5 23			n.a.
T 30	19 47	13 37	2 54	11 28	0 47	20 21	2 45	23 17	0 21	15 8	1 1	10 4	2 11	16 4	0 43	22 21	0 3	17 2	17 24	2 42	3 11	5 19			n.a.
F 31	19n34	6s55	1s45	10n53	0s56	20n31	2s42	23n22	0n22	15n10	1s 1	10s 5	2n10	16n 3	0n43	22s21	0s 3	17s 3	17s24	2n41	3n10	5n16			n.a.

Julian Day Number = 1671930.5, Delta T = 03h20m05s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'14, Lahiri = - 5°49'14 Julian Calendar 1 July 136 BCE == Greg. Calendar 28 June 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

AUGUST 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 25 16	4♌35'36	1♈17	0♍46	19♊19	16♊56	13♉49	1♏31	18♌51	19°R19	27°R 7	6°D39	7♈50	20♍31	n.a.	S 1
S 2	20 29 12	5°33'40	15°39	1°58	20°22	17°33	13°56	1°33	18°55	19♑17	27♓ 6	6♈40	7°47	20°38	n.a.	S 2
M 3	20 33 9	6°31'47	29°44	3° 7	21°25	18°11	14° 3	1°36	18°58	19°16	27° 6	6°R40	7°44	20°44	n.a.	M 3
T 4	20 37 5	7°29'56	13♉32	4°14	22°28	18°49	14° 9	1°38	19° 2	19°14	27° 5	6°40	7°41	20°51	n.a.	T 4
W 5	20 41 2	8°28'07	27° 3	5°20	23°31	19°26	14°15	1°41	19° 6	19°13	27° 4	6°39	7°38	20°58	n.a.	W 5
T 6	20 44 59	9°26'20	10♊18	6°23	24°35	20° 4	14°21	1°43	19° 9	19°11	27° 3	6°35	7°34	21° 4	n.a.	T 6
F 7	20 48 55	10°24'36	23°20	7°23	25°39	20°42	14°27	1°46	19°13	19°10	27° 3	6°29	7°31	21°11	n.a.	F 7
S 8	20 52 52	11°22'53	6♋ 9	8°21	26°43	21°19	14°33	1°49	19°17	19° 8	27° 2	6°20	7°28	21°18	n.a.	S 8
S 9	20 56 48	12°21'13	18°46	9°16	27°48	21°56	14°39	1°51	19°21	19° 7	27° 1	6°11	7°25	21°24	n.a.	S 9
M10	21 0 45	13°19'35	1♌11	10° 8	28°53	22°33	14°44	1°54	19°24	19° 5	27° 0	6° 1	7°22	21°31	n.a.	M10
T 11	21 4 41	14°17'58	13°26	10°57	29°58	23°11	14°49	1°57	19°28	19° 4	27° 0	5°51	7°19	21°38	n.a.	T 11
W12	21 8 38	15°16'24	25°30	11°43	1♋ 3	23°48	14°54	2° 0	19°32	19° 3	26°59	5°43	7°15	21°44	n.a.	W12
T 13	21 12 34	16°14'51	7♍27	12°25	2° 9	24°25	14°59	2° 4	19°36	19° 1	26°58	5°37	7°12	21°51	n.a.	T 13
F 14	21 16 31	17°13'20	19°17	13° 4	3°14	25° 2	15° 4	2° 7	19°40	19° 0	26°57	5°34	7° 9	21°58	n.a.	F 14
S 15	21 20 28	18°11'51	1♎ 3	13°38	4°20	25°39	15° 8	2°10	19°43	18°58	26°56	5°D32	7° 6	22° 4	n.a.	S 15
S 16	21 24 24	19°10'24	12°50	14° 8	5°27	26°15	15°13	2°14	19°47	18°57	26°56	5°32	7° 3	22°11	n.a.	S 16
M17	21 28 21	20° 8'59	24°40	14°32	6°33	26°52	15°17	2°17	19°51	18°56	26°55	5°34	7° 0	22°17	n.a.	M17
T 18	21 32 17	21° 7'35	6♏39	14°52	7°40	27°29	15°21	2°21	19°55	18°54	26°54	5°35	6°56	22°24	n.a.	T 18
W19	21 36 14	22° 6'13	18°52	15° 7	8°46	28° 5	15°25	2°25	19°58	18°53	26°53	5°R36	6°53	22°31	n.a.	W19
T 20	21 40 10	23° 4'53	1♐23	15°15	9°53	28°42	15°29	2°28	20° 2	18°52	26°52	5°35	6°50	22°37	n.a.	T 20
F 21	21 44 7	24° 3'35	14°18	15°R17	11° 1	29°18	15°32	2°32	20° 6	18°50	26°51	5°34	6°47	22°44	n.a.	F 21
S 22	21 48 3	25° 2'19	27°40	15°13	12° 8	29°55	15°35	2°36	20°10	18°49	26°50	5°30	6°44	22°51	n.a.	S 22
S 23	21 52 0	26° 1'05	11♑31	15° 2	13°16	0♋31	15°38	2°40	20°14	18°48	26°49	5°25	6°40	22°57	n.a.	S 23
M24	21 55 57	26°59'52	25°49	14°44	14°23	1° 7	15°41	2°44	20°17	18°47	26°48	5°19	6°37	23° 4	n.a.	M24
T 25	21 59 53	27°58'42	10♒32	14°19	15°31	1°43	15°44	2°48	20°21	18°46	26°47	5°13	6°34	23°11	n.a.	T 25
W26	22 3 50	28°57'33	25°31	13°46	16°39	2°19	15°47	2°53	20°25	18°44	26°46	5° 8	6°31	23°17	n.a.	W26
T 27	22 7 46	29°56'26	10♓40	13° 6	17°48	2°55	15°49	2°57	20°29	18°43	26°45	5° 5	6°28	23°24	n.a.	T 27
F 28	22 11 43	0♍55'22	25°47	12°19	18°56	3°31	15°51	3° 1	20°32	18°42	26°44	5° 3	6°25	23°31	n.a.	F 28
S 29	22 15 39	1°54'19	10♈44	11°26	20° 5	4° 7	15°53	3° 6	20°36	18°41	26°43	5°D 3	6°21	23°37	n.a.	S 29
S 30	22 19 36	2°53'19	25°23	10°27	21°14	4°42	15°55	3°10	20°40	18°40	26°42	5° 4	6°18	23°44	n.a.	S 30
M31	22 23 32	3♍52'22	9♉42	9♍23	22♋23	5♋18	15♉56	3♏15	20♌43	18♑39	26♓41	5♈ 5	6♈15	23♍51	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n20	0n 5	0s29	10n19	1s 5	20n40	2s38	23n26	0n23	15n12	1s 1	10s 6	2n10	16n 1	0n43	22s21	0s 3	17s 3	17s25	2n40	3n 9	5n12		n.a.
S 2	19 6	6 58	0n48	9 44	1 15	20 48	2 33	23 31	0 23	15 14	1 1	10 7	2 10	16 0	0 43	22 22	0 3	17 4	17 25	2 40	3 7	5 9		n.a.
M 3	18 51	13 23	2 0	9 10	1 24	20 57	2 29	23 35	0 24	15 16	1 1	10 8	2 10	15 59	0 43	22 22	0 3	17 4	17 25	2 41	3 6	5 6		n.a.
T 4	18 36	19 0	3 4	8 37	1 33	21 5	2 25	23 39	0 25	15 18	1 1	10 10	2 9	15 58	0 43	22 22	0 3	17 5	17 26	2 41	3 5	5 2		n.a.
W 5	18 21	23 33	3 56	8 4	1 43	21 12	2 21	23 43	0 26	15 19	1 1	10 11	2 9	15 57	0 43	22 22	0 3	17 5	17 26	2 40	3 4	4 59		n.a.
T 6	18 6	26 46	4 34	7 32	1 52	21 19	2 17	23 47	0 27	15 21	1 1	10 12	2 9	15 56	0 43	22 22	0 3	17 6	17 26	2 38	3 2	4 55		n.a.
F 7	17 50	28 30	4 58	7 1	2 2	21 26	2 13	23 50	0 27	15 23	1 2	10 13	2 9	15 54	0 43	22 23	0 3	17 6	17 26	2 36	3 1	4 52		n.a.
S 8	17 34	28 39	5 5	6 31	2 11	21 32	2 9	23 54	0 28	15 24	1 2	10 14	2 8	15 53	0 43	22 23	0 3	17 7	17 27	2 33	3 0	4 48		n.a.
S 9	17 17	27 18	4 58	6 1	2 20	21 37	2 4	23 57	0 29	15 26	1 2	10 15	2 8	15 52	0 43	22 23	0 3	17 7	17 27	2 29	2 59	4 45		n.a.
M10	17 1	24 37	4 37	5 33	2 29	21 43	2 0	24 0	0 30	15 27	1 2	10 17	2 8	15 51	0 43	22 23	0 3	17 8	17 27	2 25	2 57	4 42		n.a.
T 11	16 44	20 51	4 3	5 6	2 38	21 47	1 56	24 3	0 31	15 29	1 2	10 18	2 8	15 50	0 43	22 24	0 3	17 9	17 27	2 21	2 56	4 38		n.a.
W12	16 26	16 16	3 19	4 41	2 47	21 51	1 51	24 5	0 31	15 30	1 2	10 19	2 7	15 48	0 43	22 24	0 3	17 9	17 28	2 18	2 55	4 35		n.a.
T 13	16 9	11 7	2 26	4 16	2 56	21 55	1 47	24 8	0 32	15 32	1 2	10 20	2 7	15 47	0 43	22 24	0 3	17 10	17 28	2 16	2 53	4 31		n.a.
F 14	15 51	5 37	1 27	3 54	3 4	21 58	1 43	24 10	0 33	15 33	1 2	10 22	2 7	15 46	0 43	22 24	0 3	17 10	17 28	2 14	2 52	4 28		n.a.
S 15	15 33	0s 3	0 24	3 33	3 12	22 0	1 38	24 12	0 34	15 34	1 2	10 23	2 7	15 45	0 43	22 24	0 3	17 11	17 28	2 13	2 51	4 24		n.a.
S 16	15 15	5 44	0s39	3 15	3 20	22 2	1 34	24 14	0 35	15 35	1 2	10 25	2 6	15 44	0 43	22 25	0 3	17 11	17 28	2 13	2 50	4 21		n.a.
M17	14 56	11 14	1 42	2 59	3 27	22 3	1 30	24 16	0 36	15 37	1 3	10 26	2 6	15 42	0 43	22 25	0 3	17 12	17 29	2 14	2 48	4 18		n.a.
T 18	14 37	16 25	2 41	2 45	3 33	22 4	1 25	24 18	0 36	15 38	1 3	10 28	2 6	15 41	0 43	22 25	0 3	17 12	17 29	2 15	2 47	4 14		n.a.
W19	14 18	21 3	3 33	2 34	3 39	22 4	1 21	24 19	0 37	15 39	1 3	10 29	2 6	15 40	0 43	22 25	0 3	17 13	17 29	2 15	2 46	4 11		n.a.
T 20	13 59	24 52	4 17	2 26	3 45	22 4	1 17	24 21	0 38	15 40	1 3	10 31	2 5	15 39	0 43	22 25	0 3	17 13	17 29	2 15	2 45	4 7		n.a.
F 21	13 39	27 34	4 50	2 21	3 49	22 3	1 12	24 22	0 39	15 41	1 3	10 32	2 5	15 38	0 43	22 26	0 3	17 14	17 30	2 14	2 43	4 4		n.a.
S 22	13 19	28 49	5 8	2 19	3 52	22 1	1 8	24 23	0 40	15 41	1 3	10 34	2 5	15 36	0 43	22 26	0 3	17 15	17 30	2 13	2 42	4 0		n.a.
S 23	12 59	28 20	5 9	2 21	3 55	21 59	1 4	24 23	0 41	15 42	1 3	10 35	2 5	15 35	0 43	22 26	0 3	17 15	17 30	2 10	2 41	3 57		n.a.
M24	12 39	25 59	4 51	2 27	3 56	21 56	1 0	24 24	0 42	15 43	1 3	10 37	2 5	15 34	0 43	22 26	0 3	17 16	17 30	2 8	2 39	3 53		n.a.
T 25	12 19	21 52	4 14	2 37	3 56	21 53	0 55	24 25	0 42	15 44	1 3	10 38	2 4	15 33	0 43	22 26	0 3	17 16	17 30	2 6	2 38	3 50		n.a.
W26	11 58	16 16	3 19	2 52	3 54	21 49	0 51	24 25	0 43	15 44	1 4	10 40	2 4	15 32	0 43	22 27	0 3	17 17	17 30	2 4	2 37	3 47		n.a.
T 27	11 37	9 39	2 9	3 10	3 50	21 45	0 47	24 25	0 44	15 45	1 4	10 42	2 4	15 30	0 43	22 27	0 3	17 17	17 31	2 2	2 36	3 43		n.a.
F 28	11 16	2 28	0 51	3 33	3 45	21 39	0 43	24 25	0 45	15 45	1 4	10 43	2 4	15 29	0 43	22 27	0 3	17 18	17 31	2 2	2 34	3 40		n.a.
S 29	10 55	4n46	0n31	4 0	3 38	21 34	0 38	24 25	0 46	15 46	1 4	10 45	2 3	15 28	0 43	22 27	0 3	17 18	17 31	2 2	2 33	3 36		n.a.
S 30	10 34	11 37	1 49	4 31	3 29	21 27	0 34	24 25	0 47	15 46	1 4	10 47	2 3	15 27	0 43	22 27	0 3	17 19	17 31	2 2	2 32	3 33		n.a.
M31	10n12	17n42	2n59	5n 6	3s17	21n20	0s30	24n24	0n48	15n47	1s 4	10s49	2n 3	15n26	0n43	22s27	0s 3	17s20	17s31	2n 3	2n31	3n29		n.a.

Julian Day Number = 1671961.5, Delta T = 03h20m04s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'10, Lahiri = - 5°49'10 Julian Calendar 1 Aug. 136 BCE == Greg. Calendar 29 July 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

SEPTEMBER 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 27 29	4♍51'27	23♉37	8°R17	23♋32	5♋53	15♉58	3♏19	20♎47	18°R38	26°R40	5♈ 7	6♈12	23♍57	n.a.	T 1
W 2	22 31 26	5°50'34	7♊10	7♍ 8	24°41	6°29	15°59	3°24	20°51	18♐37	26♓39	5°R 7	6° 9	24° 4	n.a.	W 2
T 3	22 35 22	6°49'44	20°21	6° 0	25°50	7° 4	16° 0	3°29	20°55	18°36	26°38	5° 6	6° 6	24°11	n.a.	T 3
F 4	22 39 19	7°48'57	3♋13	4°53	27° 0	7°39	16° 1	3°34	20°58	18°35	26°37	5° 4	6° 2	24°17	n.a.	F 4
S 5	22 43 15	8°48'11	15°49	3°50	28°10	8°14	16° 1	3°39	21° 2	18°34	26°36	5° 1	5°59	24°24	n.a.	S 5
S 6	22 47 12	9°47'29	28°11	2°52	29°20	8°49	16° 2	3°44	21° 5	18°33	26°35	4°57	5°56	24°30	n.a.	S 6
M 7	22 51 8	10°46'48	10♌22	2° 1	0♌30	9°24	16°R 2	3°49	21° 9	18°32	26°34	4°53	5°53	24°37	n.a.	M 7
T 8	22 55 5	11°46'10	22°25	1°18	1°40	9°59	16° 2	3°54	21°13	18°32	26°32	4°49	5°50	24°44	n.a.	T 8
W 9	22 59 1	12°45'33	4♍20	0°45	2°50	10°34	16° 2	3°59	21°16	18°31	26°31	4°46	5°46	24°50	n.a.	W 9
T 10	23 2 58	13°44'59	16°10	0°22	4° 1	11° 9	16° 1	4° 4	21°20	18°30	26°30	4°43	5°43	24°57	n.a.	T 10
F 11	23 6 54	14°44'28	27°58	0°10	5°11	11°43	16° 0	4°10	21°23	18°29	26°29	4°42	5°40	25° 4	n.a.	F 11
S 12	23 10 51	15°43'58	9♎44	0°D 9	6°22	12°18	16° 0	4°15	21°27	18°29	26°28	4°D42	5°37	25°10	n.a.	S 12
S 13	23 14 48	16°43'30	21°33	0°19	7°33	12°52	15°59	4°21	21°30	18°28	26°27	4°43	5°34	25°17	n.a.	S 13
M14	23 18 44	17°43'04	3♏26	0°39	8°44	13°26	15°57	4°26	21°34	18°27	26°26	4°44	5°31	25°24	n.a.	M14
T 15	23 22 41	18°42'40	15°28	1° 9	9°55	14° 0	15°56	4°32	21°37	18°27	26°25	4°46	5°27	25°30	n.a.	T 15
W16	23 26 37	19°42'19	27°41	1°48	11° 6	14°34	15°54	4°37	21°41	18°26	26°23	4°47	5°24	25°37	n.a.	W16
T 17	23 30 34	20°41'59	10♐11	2°36	12°18	15° 8	15°52	4°43	21°44	18°25	26°22	4°48	5°21	25°44	n.a.	T 17
F 18	23 34 30	21°41'41	23° 2	3°32	13°29	15°42	15°50	4°49	21°48	18°25	26°21	4°R48	5°18	25°50	n.a.	F 18
S 19	23 38 27	22°41'24	6♑16	4°35	14°41	16°16	15°48	4°54	21°51	18°24	26°20	4°48	5°15	25°57	n.a.	S 19
S 20	23 42 23	23°41'10	19°57	5°44	15°52	16°49	15°46	5° 0	21°55	18°24	26°19	4°47	5°11	26° 4	n.a.	S 20
M21	23 46 20	24°40'57	4♒ 5	6°58	17° 4	17°23	15°43	5° 6	21°58	18°24	26°18	4°46	5° 8	26°10	n.a.	M21
T 22	23 50 17	25°40'46	18°39	8°17	18°16	17°56	15°40	5°12	22° 1	18°23	26°17	4°44	5° 5	26°17	n.a.	T 22
W23	23 54 13	26°40'37	3♓34	9°40	19°28	18°29	15°37	5°18	22° 4	18°23	26°15	4°44	5° 2	26°23	n.a.	W23
T 24	23 58 10	27°40'30	18°44	11° 6	20°40	19° 3	15°34	5°24	22° 8	18°22	26°14	4°43	4°59	26°30	n.a.	T 24
F 25	0 2 6	28°40'25	3♈58	12°35	21°52	19°36	15°31	5°30	22°11	18°22	26°13	4°D43	4°56	26°37	n.a.	F 25
S 26	0 6 3	29°40'21	19° 8	14° 7	23° 4	20° 8	15°27	5°36	22°14	18°22	26°12	4°43	4°52	26°43	n.a.	S 26
S 27	0 9 59	0♎40'20	4♉ 4	15°40	24°17	20°41	15°23	5°42	22°17	18°22	26°11	4°43	4°49	26°50	n.a.	S 27
M28	0 13 56	1°40'21	18°38	17°15	25°29	21°14	15°19	5°48	22°20	18°21	26°10	4°44	4°46	26°57	n.a.	M28
T 29	0 17 52	2°40'25	2♊48	18°51	26°42	21°46	15°15	5°55	22°24	18°21	26° 9	4°44	4°43	27° 3	n.a.	T 29
W30	0 21 49	3♎40'31	16♊30	20♍28	27♌54	22♋19	15♉11	6♏ 1	22♌27	18♐21	26♓ 7	4♈44	4♈40	27♍10	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n50	22n41	3n55	5n43	3s 4	21n13	0s26	24n23	0n49	15n47	1s 4	10s51	2n 3	15n24	0n43	22s28	0s 3	17s20	17s31	2n 3	2n29	3n26		n.a.
W 2	9 28	26 19	4 37	6 22	2 49	21 4	0 22	24 23	0 50	15 47	1 4	10 52	2 3	15 23	0 43	22 28	0 3	17 21	17 31	2 3	2 28	3 22		n.a.
T 3	9 6	28 24	5 4	7 3	2 33	20 56	0 18	24 22	0 50	15 47	1 4	10 54	2 2	15 22	0 43	22 28	0 3	17 21	17 32	2 3	2 27	3 19		n.a.
F 4	8 44	28 54	5 14	7 45	2 15	20 46	0 14	24 21	0 51	15 48	1 4	10 56	2 2	15 21	0 43	22 28	0 3	17 22	17 32	2 2	2 25	3 15		n.a.
S 5	8 22	27 52	5 8	8 26	1 55	20 36	0 10	24 19	0 52	15 48	1 5	10 58	2 2	15 20	0 43	22 28	0 3	17 22	17 32	2 1	2 24	3 12		n.a.
S 6	7 59	25 28	4 49	9 5	1 36	20 26	0 6	24 18	0 53	15 48	1 5	11 0	2 2	15 19	0 43	22 28	0 4	17 23	17 32	1 59	2 23	3 9		n.a.
M 7	7 36	21 57	4 16	9 42	1 15	20 14	0 2	24 17	0 54	15 48	1 5	11 2	2 2	15 17	0 43	22 28	0 4	17 23	17 32	1 58	2 22	3 5		n.a.
T 8	7 14	17 32	3 32	10 17	0 55	20 3	0n 2	24 15	0 55	15 47	1 5	11 4	2 1	15 16	0 43	22 28	0 4	17 24	17 32	1 56	2 20	3 2		n.a.
W 9	6 51	12 30	2 40	10 47	0 35	19 50	0 5	24 13	0 56	15 47	1 5	11 6	2 1	15 15	0 43	22 29	0 4	17 24	17 32	1 55	2 19	2 58		n.a.
T 10	6 28	7 3	1 41	11 13	0 16	19 37	0 9	24 11	0 57	15 47	1 5	11 7	2 1	15 14	0 43	22 29	0 4	17 25	17 32	1 54	2 18	2 55		n.a.
F 11	6 5	1 23	0 37	11 35	0n 2	19 24	0 13	24 9	0 58	15 47	1 5	11 9	2 1	15 13	0 43	22 29	0 4	17 25	17 32	1 53	2 17	2 51		n.a.
S 12	5 41	4s20	0s28	11 51	0 20	19 9	0 16	24 7	0 59	15 47	1 5	11 11	2 1	15 12	0 43	22 29	0 4	17 26	17 32	1 53	2 15	2 48		n.a.
S 13	5 18	9 55	1 32	12 3	0 36	18 55	0 20	24 4	1 0	15 46	1 5	11 13	2 1	15 10	0 43	22 29	0 4	17 26	17 32	1 54	2 14	2 44		n.a.
M14	4 54	15 11	2 32	12 9	0 50	18 39	0 23	24 2	1 1	15 46	1 5	11 15	2 0	15 9	0 43	22 29	0 4	17 27	17 32	1 54	2 13	2 41		n.a.
T 15	4 31	19 57	3 27	12 11	1 4	18 24	0 27	23 59	1 2	15 45	1 5	11 18	2 0	15 8	0 43	22 29	0 4	17 27	17 33	1 55	2 11	2 37		n.a.
W16	4 7	23 59	4 13	12 7	1 15	18 7	0 30	23 57	1 3	15 45	1 6	11 20	2 0	15 7	0 43	22 29	0 4	17 28	17 33	1 55	2 10	2 34		n.a.
T 17	3 44	26 59	4 49	12 0	1 26	17 50	0 33	23 54	1 4	15 44	1 6	11 22	2 0	15 6	0 43	22 29	0 4	17 28	17 33	1 56	2 9	2 30		n.a.
F 18	3 20	28 42	5 11	11 48	1 35	17 33	0 37	23 51	1 5	15 43	1 6	11 24	2 0	15 5	0 43	22 29	0 4	17 29	17 33	1 56	2 8	2 27		n.a.
S 19	2 56	28 51	5 17	11 31	1 42	17 15	0 40	23 48	1 6	15 43	1 6	11 26	2 0	15 4	0 43	22 30	0 4	17 29	17 33	1 56	2 6	2 24		n.a.
S 20	2 32	27 15	5 6	11 12	1 48	16 57	0 43	23 45	1 7	15 42	1 6	11 28	1 59	15 3	0 43	22 30	0 4	17 30	17 33	1 55	2 5	2 20		n.a.
M21	2 8	23 56	4 37	10 48	1 53	16 38	0 46	23 41	1 8	15 41	1 6	11 30	1 59	15 2	0 43	22 30	0 4	17 30	17 33	1 55	2 4	2 17		n.a.
T 22	1 44	19 2	3 49	10 22	1 57	16 18	0 49	23 38	1 9	15 40	1 6	11 32	1 59	15 1	0 43	22 30	0 4	17 31	17 33	1 54	2 3	2 13		n.a.
W23	1 20	12 52	2 45	9 53	2 0	15 58	0 52	23 34	1 10	15 39	1 6	11 34	1 59	15 0	0 43	22 30	0 4	17 31	17 33	1 54	2 1	2 10		n.a.
T 24	0 56	5 51	1 28	9 21	2 2	15 38	0 55	23 31	1 11	15 38	1 6	11 36	1 59	14 59	0 43	22 30	0 4	17 32	17 33	1 54	2 0	2 6		n.a.
F 25	0 32	1n32	0 4	8 48	2 3	15 17	0 57	23 27	1 12	15 37	1 6	11 39	1 59	14 57	0 43	22 30	0 4	17 32	17 33	1 54	1 59	2 3		n.a.
S 26	0 8	8 48	1n19	8 12	2 3	14 56	1 0	23 23	1 13	15 36	1 6	11 41	1 58	14 56	0 43	22 30	0 4	17 32	17 33	1 54	1 57	1 59		n.a.
S 27	0s16	15 28	2 36	7 35	2 2	14 34	1 3	23 19	1 14	15 35	1 6	11 43	1 58	14 55	0 43	22 30	0 4	17 33	17 33	1 54	1 56	1 56		n.a.
M28	0 40	21 6	3 41	6 56	2 0	14 12	1 5	23 15	1 15	15 34	1 6	11 45	1 58	14 54	0 43	22 30	0 4	17 33	17 33	1 54	1 55	1 52		n.a.
T 29	1 4	25 22	4 30	6 16	1 58	13 49	1 8	23 11	1 16	15 32	1 6	11 47	1 58	14 53	0 43	22 30	0 4	17 34	17 32	1 54	1 54	1 49		n.a.
W30	1s29	28n 2	5n 2	5n35	1n56	13n26	1n10	23n 6	1n17	15n31	1s 6	11s50	1n58	14n52	0n43	22s30	0s 4	17s34	17s32	1n54	1n52	1n45		n.a.

Julian Day Number = 1671992.5, Delta T = 03h20m03s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'06, Lahiri = - 5°49'05 Julian Calendar 1 Sept. 136 BCE == Greg. Calendar 29 Aug. 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

OCTOBER 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 25 46	4♎40'39	29♊46	22♍ 6	29♌ 7	22♋51	15°R 6	6♏ 7	22♌30	18°R21	26°R 6	4♈44	4♈37	27♍17	n.a.	T 1
F 2	0 29 42	5°40'49	12♋37	23°44	0♍20	23°23	15♉ 1	6°14	22°33	18♑21	26♓ 5	4°44	4°33	27°23	n.a.	F 2
S 3	0 33 39	6°41'01	25° 9	25°23	1°33	23°55	14°57	6°20	22°36	18°21	26° 4	4°44	4°30	27°30	n.a.	S 3
S 4	0 37 35	7°41'16	7♌24	27° 2	2°46	24°27	14°52	6°26	22°39	18°D21	26° 3	4°44	4°27	27°37	n.a.	S 4
M 5	0 41 32	8°41'32	19°27	28°41	3°59	24°59	14°46	6°33	22°42	18°21	26° 2	4°45	4°24	27°43	n.a.	M 5
T 6	0 45 28	9°41'51	1♍21	0♎20	5°12	25°30	14°41	6°39	22°45	18°21	26° 1	4°45	4°21	27°50	n.a.	T 6
W 7	0 49 25	10°42'12	13°10	1°59	6°25	26° 2	14°35	6°46	22°47	18°21	26° 0	4°46	4°17	27°57	n.a.	W 7
T 8	0 53 21	11°42'34	24°57	3°37	7°39	26°33	14°30	6°53	22°50	18°21	25°58	4°46	4°14	28° 3	n.a.	T 8
F 9	0 57 18	12°42'58	6♎45	5°16	8°52	27° 4	14°24	6°59	22°53	18°21	25°57	4°R46	4°11	28°10	n.a.	F 9
S 10	1 1 14	13°43'25	18°35	6°54	10° 6	27°35	14°18	7° 6	22°56	18°22	25°56	4°46	4° 8	28°16	n.a.	S 10
S 11	1 5 11	14°43'53	0♏30	8°32	11°19	28° 6	14°12	7°12	22°58	18°22	25°55	4°45	4° 5	28°23	n.a.	S 11
M12	1 9 8	15°44'22	12°32	10°10	12°33	28°36	14° 5	7°19	23° 1	18°22	25°54	4°44	4° 2	28°30	n.a.	M12
T 13	1 13 4	16°44'54	24°43	11°48	13°46	29° 7	13°59	7°26	23° 4	18°22	25°53	4°42	3°58	28°36	n.a.	T 13
W14	1 17 1	17°45'26	7♐ 5	13°25	15° 0	29°37	13°52	7°33	23° 6	18°23	25°52	4°40	3°55	28°43	n.a.	W14
T 15	1 20 57	18°46'01	19°41	15° 2	16°14	0♌ 7	13°46	7°39	23° 9	18°23	25°51	4°38	3°52	28°50	n.a.	T 15
F 16	1 24 54	19°46'37	2♑33	16°39	17°28	0°37	13°39	7°46	23°11	18°24	25°50	4°37	3°49	28°56	n.a.	F 16
S 17	1 28 50	20°47'14	15°43	18°15	18°42	1° 7	13°32	7°53	23°14	18°24	25°49	4°D36	3°46	29° 3	n.a.	S 17
S 18	1 32 47	21°47'52	29°14	19°51	19°56	1°36	13°25	8° 0	23°16	18°24	25°48	4°36	3°43	29°10	n.a.	S 18
M19	1 36 44	22°48'32	13♒ 8	21°27	21°10	2° 6	13°18	8° 7	23°18	18°25	25°47	4°37	3°39	29°16	n.a.	M19
T 20	1 40 40	23°49'13	27°24	23° 3	22°24	2°35	13°10	8°14	23°21	18°26	25°46	4°38	3°36	29°23	n.a.	T 20
W21	1 44 37	24°49'55	12♓ 0	24°38	23°38	3° 4	13° 3	8°21	23°23	18°26	25°45	4°40	3°33	29°30	n.a.	W21
T 22	1 48 33	25°50'38	26°54	26°13	24°52	3°33	12°55	8°27	23°25	18°27	25°44	4°41	3°30	29°36	n.a.	T 22
F 23	1 52 30	26°51'23	11♈57	27°48	26° 6	4° 1	12°48	8°34	23°27	18°27	25°43	4°R41	3°27	29°43	n.a.	F 23
S 24	1 56 26	27°52'08	27° 2	29°23	27°20	4°30	12°40	8°41	23°30	18°28	25°42	4°39	3°23	29°49	n.a.	S 24
S 25	2 0 23	28°52'56	12♉ 0	0♏57	28°35	4°58	12°32	8°48	23°32	18°29	25°41	4°37	3°20	29°56	n.a.	S 25
M26	2 4 19	29°53'44	26°42	2°31	29°49	5°26	12°25	8°55	23°34	18°30	25°40	4°34	3°17	0♎ 3	n.a.	M26
T 27	2 8 16	0♏54'35	11♊ 2	4° 6	1♎ 3	5°54	12°17	9° 2	23°36	18°30	25°39	4°30	3°14	0° 9	n.a.	T 27
W28	2 12 13	1°55'27	24°54	5°40	2°18	6°21	12° 9	9° 9	23°38	18°31	25°38	4°26	3°11	0°16	n.a.	W28
T 29	2 16 9	2°56'20	8♋19	7°14	3°32	6°49	12° 1	9°16	23°40	18°32	25°37	4°23	3° 8	0°23	n.a.	T 29
F 30	2 20 6	3°57'15	21°17	8°47	4°47	7°16	11°53	9°23	23°41	18°33	25°36	4°20	3° 4	0°29	n.a.	F 30
S 31	2 24 2	4♏58'11	3♌51	10♏21	6♎ 1	7♌43	11♉45	9♏30	23♌43	18♑34	25♓36	4°D20	3♈ 1	0♎36	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	1s53	29n 0	5n17	4n53	1n52	13n 3	1n13	23n 2	1n18	15n30	1s 6	11s52	1n58	14n51	0n43	22s30	0s 4	17s35	17s32	1n54	1n51	1n42			n.a.
F 2	2 17	28 20	5 15	4 11	1 49	12 39	1 15	22 58	1 19	15 28	1 6	11 54	1 58	14 50	0 44	22 30	0 4	17 35	17 32	1 54	1 50	1 38			n.a.
S 3	2 41	26 14	4 58	3 27	1 45	12 15	1 17	22 53	1 20	15 27	1 6	11 56	1 57	14 50	0 44	22 30	0 4	17 35	17 32	1 54	1 49	1 35			n.a.
S 4	3 5	22 56	4 28	2 44	1 40	11 50	1 19	22 48	1 21	15 25	1 7	11 59	1 57	14 49	0 44	22 30	0 4	17 36	17 32	1 54	1 47	1 31			n.a.
M 5	3 29	18 44	3 46	1 59	1 36	11 25	1 21	22 44	1 22	15 24	1 7	12 1	1 57	14 48	0 44	22 30	0 4	17 36	17 32	1 54	1 46	1 28			n.a.
T 6	3 53	13 50	2 55	1 15	1 31	11 0	1 23	22 39	1 23	15 22	1 7	12 3	1 57	14 47	0 44	22 30	0 4	17 36	17 32	1 55	1 45	1 24			n.a.
W 7	4 17	8 29	1 57	0 30	1 25	10 34	1 25	22 34	1 25	15 20	1 7	12 5	1 57	14 46	0 44	22 30	0 4	17 37	17 32	1 55	1 43	1 21			n.a.
T 8	4 41	2 51	0 54	0s14	1 20	10 8	1 26	22 29	1 26	15 19	1 7	12 8	1 57	14 45	0 44	22 30	0 4	17 37	17 32	1 55	1 42	1 18			n.a.
F 9	5 5	2s53	0s11	0 59	1 14	9 42	1 28	22 24	1 27	15 17	1 7	12 10	1 57	14 44	0 44	22 30	0 4	17 37	17 32	1 55	1 41	1 14			n.a.
S 10	5 28	8 32	1 16	1 44	1 8	9 15	1 30	22 19	1 28	15 15	1 7	12 12	1 57	14 43	0 44	22 30	0 4	17 38	17 32	1 55	1 40	1 11			n.a.
S 11	5 52	13 56	2 18	2 28	1 2	8 48	1 31	22 14	1 29	15 13	1 7	12 14	1 57	14 42	0 44	22 30	0 4	17 38	17 31	1 55	1 38	1 7			n.a.
M12	6 16	18 52	3 15	3 13	0 56	8 21	1 33	22 9	1 30	15 11	1 7	12 17	1 56	14 41	0 44	22 30	0 4	17 38	17 31	1 54	1 37	1 4			n.a.
T 13	6 39	23 5	4 3	3 57	0 50	7 54	1 34	22 4	1 31	15 9	1 7	12 19	1 56	14 41	0 44	22 30	0 4	17 39	17 31	1 53	1 36	1 0			n.a.
W14	7 3	26 21	4 41	4 41	0 43	7 26	1 35	21 58	1 33	15 8	1 7	12 21	1 56	14 40	0 44	22 30	0 4	17 39	17 31	1 53	1 35	0 57			n.a.
T 15	7 26	28 23	5 6	5 25	0 37	6 58	1 36	21 53	1 34	15 6	1 7	12 24	1 56	14 39	0 44	22 30	0 4	17 39	17 31	1 52	1 33	0 53			n.a.
F 16	7 49	28 58	5 16	6 9	0 30	6 30	1 38	21 48	1 35	15 3	1 7	12 26	1 56	14 38	0 44	22 30	0 4	17 40	17 31	1 51	1 32	0 50			n.a.
S 17	8 12	27 55	5 11	6 52	0 24	6 2	1 39	21 42	1 36	15 1	1 7	12 28	1 56	14 37	0 44	22 30	0 4	17 40	17 31	1 51	1 31	0 46			n.a.
S 18	8 35	25 14	4 48	7 35	0 17	5 33	1 39	21 37	1 38	14 59	1 7	12 31	1 56	14 37	0 44	22 30	0 4	17 40	17 30	1 51	1 29	0 43			n.a.
M19	8 58	21 1	4 8	8 18	0 11	5 5	1 40	21 31	1 39	14 57	1 6	12 33	1 56	14 36	0 44	22 30	0 4	17 40	17 30	1 51	1 28	0 39			n.a.
T 20	9 21	15 31	3 12	9 0	0 4	4 36	1 41	21 26	1 40	14 55	1 6	12 35	1 56	14 35	0 44	22 30	0 4	17 41	17 30	1 52	1 27	0 36			n.a.
W21	9 43	9 1	2 2	9 41	0s 3	4 7	1 42	21 20	1 41	14 53	1 6	12 38	1 56	14 34	0 44	22 30	0 4	17 41	17 30	1 52	1 26	0 32			n.a.
T 22	10 6	1 54	0 43	10 23	0 9	3 37	1 42	21 15	1 43	14 51	1 6	12 40	1 56	14 34	0 44	22 30	0 4	17 41	17 30	1 53	1 24	0 29			n.a.
F 23	10 28	5n23	0n40	11 3	0 16	3 8	1 43	21 9	1 44	14 48	1 6	12 42	1 55	14 33	0 44	22 30	0 4	17 41	17 29	1 53	1 23	0 25			n.a.
S 24	10 50	12 24	2 0	11 43	0 22	2 39	1 43	21 3	1 45	14 46	1 6	12 44	1 55	14 32	0 44	22 29	0 4	17 41	17 29	1 52	1 22	0 22			n.a.
S 25	11 12	18 39	3 11	12 23	0 29	2 9	1 44	20 58	1 46	14 44	1 6	12 47	1 55	14 32	0 44	22 29	0 4	17 42	17 29	1 51	1 20	0 18			n.a.
M26	11 34	23 40	4 8	13 2	0 35	1 39	1 44	20 52	1 48	14 41	1 6	12 49	1 55	14 31	0 44	22 29	0 4	17 42	17 29	1 50	1 19	0 15			n.a.
T 27	11 55	27 6	4 48	13 40	0 41	1 10	1 44	20 46	1 49	14 39	1 6	12 51	1 55	14 30	0 44	22 29	0 4	17 42	17 29	1 48	1 18	0 11			n.a.
W28	12 17	28 46	5 10	14 18	0 47	0 40	1 44	20 41	1 50	14 37	1 6	12 54	1 55	14 30	0 44	22 29	0 4	17 42	17 28	1 47	1 17	0 8			n.a.
T 29	12 38	28 40	5 13	14 55	0 53	0 10	1 44	20 35	1 52	14 34	1 6	12 56	1 55	14 29	0 44	22 29	0 4	17 42	17 28	1 46	1 15	0 4			n.a.
F 30	12 59	26 57	5 0	15 32	0 59	0s20	1 44	20 29	1 53	14 32	1 6	12 58	1 55	14 29	0 45	22 29	0 4	17 42	17 28	1 45	1 14	0 1			n.a.
S 31	13s20	23n56	4n33	16s 8	1s 5	0s50	1n44	20n24	1n54	14n30	1s 6	13s 1	1n55	14n28	0n45	22s29	0s 4	17s43	17s28	1n44	1n13	0s 3			n.a.

Julian Day Number = 1672022.5, Delta T = 03h20m02s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°56'02, Lahiri = - 5°49'01 Julian Calendar 1 Oct. 136 BCE == Greg. Calendar 28 Sept. 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

NOVEMBER 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 59	5♏59'09	16♌ 6	11♏55	7♎16	8♌ 9	11°R37	9♏37	23♌45	18♑35	25°R35	4♈20	2♈58	0♎43	n.a.	S 1
M 2	2 31 55	7° 0'08	28° 6	13°29	8°31	8°36	11♉29	9°44	23°47	18°36	25♓34	4°22	2°55	0°49	n.a.	M 2
T 3	2 35 52	8° 1'08	9♍58	15° 2	9°45	9° 2	11°20	9°51	23°48	18°37	25°33	4°23	2°52	0°56	n.a.	T 3
W 4	2 39 48	9° 2'10	21°44	16°36	11° 0	9°28	11°12	9°58	23°50	18°38	25°32	4°25	2°48	1° 3	n.a.	W 4
T 5	2 43 45	10° 3'13	3♎31	18° 9	12°15	9°54	11° 4	10° 5	23°51	18°39	25°32	4°R26	2°45	1° 9	n.a.	T 5
F 6	2 47 42	11° 4'17	15°21	19°43	13°30	10°19	10°56	10°13	23°53	18°40	25°31	4°25	2°42	1°16	n.a.	F 6
S 7	2 51 38	12° 5'22	27°17	21°16	14°44	10°44	10°48	10°20	23°54	18°41	25°30	4°23	2°39	1°23	n.a.	S 7
S 8	2 55 35	13° 6'28	9♏23	22°49	15°59	11° 9	10°39	10°27	23°56	18°42	25°29	4°18	2°36	1°29	n.a.	S 8
M 9	2 59 31	14° 7'35	21°38	24°23	17°14	11°34	10°31	10°34	23°57	18°43	25°29	4°12	2°33	1°36	n.a.	M 9
T 10	3 3 28	15° 8'43	4♐ 5	25°56	18°29	11°58	10°23	10°41	23°58	18°45	25°28	4° 4	2°29	1°42	n.a.	T 10
W11	3 7 24	16° 9'52	16°44	27°29	19°44	12°22	10°15	10°48	24° 0	18°46	25°27	3°56	2°26	1°49	n.a.	W11
T 12	3 11 21	17°11'02	29°35	29° 2	20°59	12°46	10° 7	10°55	24° 1	18°47	25°27	3°49	2°23	1°56	n.a.	T 12
F 13	3 15 17	18°12'12	12♑39	0♐35	22°14	13° 9	9°59	11° 2	24° 2	18°48	25°26	3°42	2°20	2° 2	n.a.	F 13
S 14	3 19 14	19°13'22	25°56	2° 8	23°29	13°32	9°51	11° 9	24° 3	18°50	25°25	3°37	2°17	2° 9	n.a.	S 14
S 15	3 23 11	20°14'33	9♒27	3°41	24°44	13°55	9°43	11°16	24° 4	18°51	25°25	3°35	2°14	2°16	n.a.	S 15
M16	3 27 7	21°15'44	23°12	5°13	25°59	14°17	9°35	11°23	24° 5	18°53	25°24	3°D34	2°10	2°22	n.a.	M16
T 17	3 31 4	22°16'55	7♓13	6°45	27°14	14°39	9°27	11°30	24° 6	18°54	25°24	3°35	2° 7	2°29	n.a.	T 17
W18	3 35 0	23°18'06	21°28	8°17	28°29	15° 1	9°19	11°37	24° 7	18°55	25°23	3°36	2° 4	2°36	n.a.	W18
T 19	3 38 57	24°19'18	5♈57	9°48	29°44	15°22	9°12	11°44	24° 7	18°57	25°22	3°R37	2° 1	2°42	n.a.	T 19
F 20	3 42 53	25°20'30	20°36	11°19	0♏59	15°43	9° 4	11°50	24° 8	18°58	25°22	3°35	1°58	2°49	n.a.	F 20
S 21	3 46 50	26°21'42	5♉20	12°48	2°14	16° 4	8°57	11°57	24° 9	19° 0	25°21	3°32	1°54	2°56	n.a.	S 21
S 22	3 50 46	27°22'55	20° 2	14°17	3°29	16°25	8°49	12° 4	24° 9	19° 2	25°21	3°26	1°51	3° 2	n.a.	S 22
M23	3 54 43	28°24'08	4♊34	15°45	4°44	16°44	8°42	12°11	24°10	19° 3	25°21	3°17	1°48	3° 9	n.a.	M23
T 24	3 58 40	29°25'21	18°50	17°11	5°59	17° 4	8°35	12°18	24°11	19° 5	25°20	3° 8	1°45	3°15	n.a.	T 24
W25	4 2 36	0♐26'35	2♋44	18°35	7°14	17°23	8°28	12°25	24°11	19° 6	25°20	2°58	1°42	3°22	n.a.	W25
T 26	4 6 33	1°27'49	16°12	19°58	8°29	17°42	8°21	12°32	24°11	19° 8	25°19	2°49	1°39	3°29	n.a.	T 26
F 27	4 10 29	2°29'03	29°15	21°18	9°45	18° 0	8°14	12°38	24°12	19°10	25°19	2°42	1°35	3°35	n.a.	F 27
S 28	4 14 26	3°30'18	11♌54	22°35	11° 0	18°18	8° 7	12°45	24°12	19°11	25°19	2°37	1°32	3°42	n.a.	S 28
S 29	4 18 22	4°31'33	24°12	23°49	12°15	18°36	8° 1	12°52	24°12	19°13	25°18	2°34	1°29	3°49	n.a.	S 29
M30	4 22 19	5♐32'48	6♍14	25♐ 0	13♏30	18♌53	7♉54	12♏59	24♌12	19♑15	25♓18	2°D34	1♈26	3♎55	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s40	19n55	3n54	16s43	1s11	1s20	1n44	20n18	1n56	14n27	1s 6	13s 3	1n55	14n27	0n45	22s29	0s 4	17s43	17s27	1n45	1n12	0s 6		n.a.
M 2	14 0	15 10	3 6	17 17	1 17	1 50	1 43	20 12	1 57	14 25	1 5	13 5	1 55	14 27	0 45	22 28	0 4	17 43	17 27	1 45	1 10	0 9		n.a.
T 3	14 21	9 55	2 10	17 50	1 22	2 20	1 43	20 6	1 59	14 22	1 5	13 7	1 55	14 26	0 45	22 28	0 4	17 43	17 27	1 46	1 9	0 13		n.a.
W 4	14 40	4 22	1 9	18 23	1 27	2 50	1 42	20 1	2 0	14 20	1 5	13 10	1 55	14 26	0 45	22 28	0 4	17 43	17 27	1 47	1 8	0 16		n.a.
T 5	15 0	1s20	0 5	18 54	1 32	3 20	1 42	19 55	2 1	14 17	1 5	13 12	1 55	14 25	0 45	22 28	0 4	17 43	17 26	1 47	1 6	0 20		n.a.
F 6	15 19	7 1	0s59	19 25	1 37	3 50	1 41	19 50	2 3	14 15	1 5	13 14	1 55	14 25	0 45	22 28	0 4	17 43	17 26	1 47	1 5	0 23		n.a.
S 7	15 38	12 31	2 1	19 55	1 42	4 20	1 41	19 44	2 4	14 12	1 5	13 16	1 55	14 25	0 45	22 28	0 4	17 43	17 26	1 46	1 4	0 27		n.a.
S 8	15 57	17 36	2 59	20 24	1 46	4 50	1 40	19 39	2 6	14 10	1 5	13 19	1 55	14 24	0 45	22 28	0 4	17 43	17 25	1 44	1 3	0 30		n.a.
M 9	16 16	22 3	3 48	20 52	1 50	5 19	1 39	19 33	2 7	14 8	1 5	13 21	1 55	14 24	0 45	22 27	0 4	17 43	17 25	1 41	1 1	0 34		n.a.
T 10	16 34	25 35	4 28	21 19	1 54	5 49	1 38	19 28	2 9	14 5	1 4	13 23	1 54	14 23	0 45	22 27	0 4	17 43	17 25	1 38	1 0	0 37		n.a.
W11	16 52	27 56	4 55	21 44	1 58	6 18	1 37	19 22	2 10	14 3	1 4	13 25	1 54	14 23	0 45	22 27	0 4	17 43	17 25	1 35	0 59	0 41		n.a.
T 12	17 9	28 51	5 8	22 9	2 1	6 48	1 36	19 17	2 12	14 0	1 4	13 28	1 54	14 23	0 45	22 27	0 4	17 43	17 24	1 32	0 58	0 44		n.a.
F 13	17 27	28 10	5 5	22 32	2 4	7 17	1 35	19 12	2 13	13 58	1 4	13 30	1 54	14 22	0 45	22 27	0 4	17 43	17 24	1 29	0 56	0 48		n.a.
S 14	17 44	25 53	4 46	22 54	2 7	7 46	1 34	19 6	2 15	13 56	1 4	13 32	1 54	14 22	0 45	22 27	0 4	17 43	17 24	1 27	0 55	0 51		n.a.
S 15	18 1	22 7	4 11	23 15	2 9	8 15	1 33	19 1	2 17	13 53	1 4	13 34	1 54	14 22	0 45	22 26	0 4	17 43	17 23	1 26	0 54	0 55		n.a.
M16	18 17	17 5	3 20	23 34	2 11	8 44	1 31	18 56	2 18	13 51	1 3	13 36	1 54	14 21	0 45	22 26	0 4	17 43	17 23	1 26	0 52	0 58		n.a.
T 17	18 33	11 5	2 18	23 52	2 13	9 12	1 30	18 51	2 20	13 49	1 3	13 39	1 54	14 21	0 45	22 26	0 4	17 43	17 23	1 26	0 51	1 2		n.a.
W18	18 49	4 25	1 5	24 8	2 14	9 41	1 29	18 46	2 21	13 46	1 3	13 41	1 54	14 21	0 45	22 26	0 4	17 43	17 22	1 27	0 50	1 5		n.a.
T 19	19 4	2n35	0n13	24 23	2 14	10 9	1 27	18 41	2 23	13 44	1 3	13 43	1 54	14 21	0 45	22 26	0 4	17 43	17 22	1 27	0 49	1 9		n.a.
F 20	19 19	9 32	1 30	24 37	2 14	10 37	1 26	18 36	2 25	13 42	1 3	13 45	1 54	14 20	0 45	22 25	0 4	17 43	17 22	1 27	0 47	1 12		n.a.
S 21	19 34	15 59	2 42	24 48	2 14	11 4	1 24	18 32	2 26	13 39	1 2	13 47	1 54	14 20	0 45	22 25	0 4	17 43	17 21	1 25	0 46	1 16		n.a.
S 22	19 48	21 31	3 43	24 59	2 13	11 32	1 22	18 27	2 28	13 37	1 2	13 49	1 54	14 20	0 46	22 25	0 4	17 43	17 21	1 23	0 45	1 19		n.a.
M23	20 2	25 41	4 28	25 7	2 11	11 59	1 21	18 23	2 30	13 35	1 2	13 51	1 54	14 20	0 46	22 25	0 4	17 42	17 21	1 19	0 43	1 23		n.a.
T 24	20 15	28 9	4 56	25 14	2 9	12 26	1 19	18 18	2 32	13 33	1 2	13 53	1 54	14 20	0 46	22 25	0 4	17 42	17 20	1 16	0 42	1 26		n.a.
W25	20 29	28 46	5 5	25 18	2 6	12 52	1 17	18 14	2 33	13 31	1 2	13 55	1 54	14 20	0 46	22 24	0 4	17 42	17 20	1 12	0 41	1 30		n.a.
T 26	20 41	27 38	4 57	25 22	2 2	13 19	1 15	18 10	2 35	13 29	1 1	13 58	1 54	14 20	0 46	22 24	0 4	17 42	17 20	1 8	0 40	1 33		n.a.
F 27	20 54	25 0	4 33	25 23	1 57	13 45	1 13	18 6	2 37	13 27	1 1	14 0	1 54	14 20	0 46	22 24	0 4	17 42	17 19	1 5	0 38	1 36		n.a.
S 28	21 6	21 12	3 57	25 22	1 52	14 10	1 11	18 2	2 39	13 25	1 1	14 2	1 54	14 20	0 46	22 24	0 4	17 42	17 19	1 3	0 37	1 40		n.a.
S 29	21 17	16 36	3 10	25 19	1 45	14 35	1 9	17 58	2 41	13 23	1 1	14 4	1 54	14 19	0 46	22 23	0 4	17 41	17 19	1 2	0 36	1 43		n.a.
M30	21s28	11n26	2n16	25s15	1s38	15s 0	1n 7	17n54	2n42	13n21	1s 0	14s 6	1n54	14n19	0n46	22s23	0s 4	17s41	17s18	1n 2	0n35	1s47		n.a.

Julian Day Number = 1672053.5, Delta T = 03h20m01s
Ecliptic obliquity = 23°42'51, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'58, Lahiri = - 5°48'57 Julian Calendar 1 Nov. 136 BCE == Greg. Calendar 29 Oct. 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 136 BCE
geocentric

DECEMBER 136 BCE (-135) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 26 16	6♐34'04	18♍ 6	26♐ 5	14♏45	19♌10	7°R48	13♏ 5	24♌12	19♉17	25°R18	2♈34	1♈23	4♎ 2	n.a.	T 1
W 2	4 30 12	7°35'20	29°53	27° 6	16° 0	19°26	7♉42	13°12	24°R13	19°18	25♓18	2°R35	1°20	4° 9	n.a.	W 2
T 3	4 34 9	8°36'36	11♎40	28° 1	17°16	19°42	7°36	13°18	24°13	19°20	25°17	2°34	1°16	4°15	n.a.	T 3
F 4	4 38 5	9°37'52	23°33	28°49	18°31	19°57	7°30	13°25	24°12	19°22	25°17	2°32	1°13	4°22	n.a.	F 4
S 5	4 42 2	10°39'08	5♏35	29°29	19°46	20°12	7°24	13°32	24°12	19°24	25°17	2°27	1°10	4°29	n.a.	S 5
S 6	4 45 58	11°40'25	17°50	0♑ 1	21° 1	20°26	7°18	13°38	24°12	19°26	25°17	2°19	1° 7	4°35	n.a.	S 6
M 7	4 49 55	12°41'41	0♐20	0°23	22°16	20°40	7°13	13°45	24°12	19°28	25°17	2° 9	1° 4	4°42	n.a.	M 7
T 8	4 53 51	13°42'57	13° 6	0°35	23°32	20°53	7° 8	13°51	24°12	19°30	25°17	1°57	1° 0	4°49	n.a.	T 8
W 9	4 57 48	14°44'13	26° 6	0°R36	24°47	21° 6	7° 3	13°57	24°11	19°32	25°16	1°44	0°57	4°55	n.a.	W 9
T 10	5 1 45	15°45'29	9♑21	0°25	26° 2	21°18	6°58	14° 4	24°11	19°34	25°16	1°31	0°54	5° 2	n.a.	T 10
F 11	5 5 41	16°46'44	22°47	0° 2	27°17	21°29	6°53	14°10	24°10	19°36	25°16	1°20	0°51	5° 8	n.a.	F 11
S 12	5 9 38	17°47'58	6♒23	29♐28	28°33	21°40	6°49	14°16	24°10	19°38	25°16	1°11	0°48	5°15	n.a.	S 12
S 13	5 13 34	18°49'12	20° 7	28°43	29°48	21°51	6°44	14°23	24° 9	19°40	25°D16	1° 6	0°45	5°22	n.a.	S 13
M14	5 17 31	19°50'25	3♓59	27°47	1♐ 3	22° 0	6°40	14°29	24° 9	19°42	25°16	1° 3	0°41	5°28	n.a.	M14
T 15	5 21 27	20°51'37	17°56	26°42	2°18	22°10	6°36	14°35	24° 8	19°44	25°16	1°D 2	0°38	5°35	n.a.	T 15
W16	5 25 24	21°52'48	2♈ 0	25°31	3°33	22°18	6°32	14°41	24° 7	19°46	25°16	1°R 2	0°35	5°42	n.a.	W16
T 17	5 29 20	22°53'58	16°10	24°15	4°48	22°26	6°29	14°47	24° 7	19°48	25°16	1° 2	0°32	5°48	n.a.	T 17
F 18	5 33 17	23°55'07	0♉24	22°57	6° 4	22°34	6°25	14°53	24° 6	19°50	25°17	0°59	0°29	5°55	n.a.	F 18
S 19	5 37 14	24°56'16	14°40	21°38	7°19	22°41	6°22	14°59	24° 5	19°52	25°17	0°54	0°26	6° 2	n.a.	S 19
S 20	5 41 10	25°57'23	28°55	20°23	8°34	22°47	6°19	15° 5	24° 4	19°54	25°17	0°46	0°22	6° 8	n.a.	S 20
M21	5 45 7	26°58'30	13♊ 3	19°12	9°49	22°52	6°16	15°11	24° 3	19°56	25°17	0°35	0°19	6°15	n.a.	M21
T 22	5 49 3	27°59'36	27° 0	18° 7	11° 4	22°57	6°14	15°17	24° 2	19°58	25°17	0°22	0°16	6°22	n.a.	T 22
W23	5 53 0	29° 0'41	10♋40	17°10	12°19	23° 1	6°11	15°22	24° 1	20° 0	25°17	0° 9	0°13	6°28	n.a.	W23
T 24	5 56 56	0♑ 1'45	24° 0	16°22	13°35	23° 4	6° 9	15°28	24° 0	20° 3	25°18	29♓56	0°10	6°35	n.a.	T 24
F 25	6 0 53	1° 2'48	6♌59	15°42	14°50	23° 7	6° 7	15°34	23°58	20° 5	25°18	29°46	0° 6	6°42	n.a.	F 25
S 26	6 4 50	2° 3'51	19°37	15°12	16° 5	23° 9	6° 5	15°39	23°57	20° 7	25°18	29°38	0° 3	6°48	n.a.	S 26
S 27	6 8 46	3° 4'53	1♍56	14°50	17°20	23°10	6° 3	15°45	23°56	20° 9	25°19	29°33	0° 0	6°55	n.a.	S 27
M28	6 12 43	4° 5'53	14° 0	14°38	18°35	23°R11	6° 2	15°50	23°55	20°11	25°19	29°31	29♓57	7° 1	n.a.	M28
T 29	6 16 39	5° 6'53	25°53	14°D34	19°50	23°11	6° 1	15°56	23°53	20°14	25°19	29°30	29°54	7° 8	n.a.	T 29
W30	6 20 36	6° 7'53	7♎41	14°37	21° 5	23°10	6° 0	16° 1	23°52	20°16	25°20	29°30	29°51	7°15	n.a.	W30
T 31	6 24 32	7♑ 8'51	19♎30	14♐48	22♐21	23♌ 8	5♉59	16♏ 6	23♌50	20♑18	25♓20	29♓29	29♓47	7♎21	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	21 s39	5n56	1n17	25 s 9	1 s29	15 s25	1n 5	17n51	2n44	13n19	1 s 0	14 s 8	1n55	14n19	0n46	22 s23	0 s 4	17 s41	17 s18	1n 2	0n33	1 s50			n.a.
W 2	21 50	0 16	0 14	25 1	1 20	15 49	1 3	17 47	2 46	13 17	1 0	14 10	1 55	14 20	0 46	22 23	0 4	17 41	17 18	1 2	0 32	1 54			n.a.
T 3	21 59	5 s24	0 s48	24 51	1 9	16 12	1 1	17 44	2 48	13 16	1 0	14 12	1 55	14 20	0 46	22 22	0 4	17 41	17 17	1 2	0 31	1 57			n.a.
F 4	22 9	10 56	1 49	24 40	0 57	16 36	0 59	17 41	2 50	13 14	1 0	14 14	1 55	14 20	0 46	22 22	0 4	17 40	17 17	1 1	0 29	2 1			n.a.
S 5	22 18	16 8	2 46	24 27	0 44	16 58	0 57	17 38	2 52	13 12	0 59	14 15	1 55	14 20	0 46	22 22	0 4	17 40	17 17	0 59	0 28	2 4			n.a.
S 6	22 27	20 48	3 36	24 12	0 29	17 21	0 54	17 35	2 54	13 11	0 59	14 17	1 55	14 20	0 46	22 22	0 4	17 40	17 16	0 56	0 27	2 8			n.a.
M 7	22 35	24 38	4 17	23 57	0 14	17 43	0 52	17 32	2 56	13 9	0 59	14 19	1 55	14 20	0 46	22 21	0 4	17 40	17 16	0 52	0 26	2 11			n.a.
T 8	22 42	27 21	4 45	23 40	0n 3	18 4	0 50	17 30	2 58	13 8	0 59	14 21	1 55	14 20	0 46	22 21	0 4	17 39	17 16	0 47	0 24	2 15			n.a.
W 9	22 50	28 39	5 0	23 22	0 21	18 25	0 47	17 28	3 0	13 6	0 58	14 23	1 55	14 20	0 46	22 21	0 4	17 39	17 15	0 42	0 23	2 18			n.a.
T 10	22 57	28 20	4 58	23 4	0 39	18 45	0 45	17 26	3 2	13 5	0 58	14 25	1 55	14 20	0 46	22 21	0 4	17 39	17 15	0 37	0 22	2 22			n.a.
F 11	23 3	26 22	4 41	22 44	0 58	19 5	0 43	17 24	3 4	13 4	0 58	14 27	1 55	14 21	0 46	22 20	0 4	17 38	17 14	0 32	0 20	2 25			n.a.
S 12	23 9	22 52	4 7	22 25	1 18	19 24	0 40	17 22	3 6	13 2	0 57	14 29	1 55	14 21	0 46	22 20	0 5	17 38	17 14	0 29	0 19	2 29			n.a.
S 13	23 14	18 4	3 18	22 5	1 37	19 43	0 38	17 21	3 8	13 1	0 57	14 30	1 55	14 21	0 46	22 20	0 5	17 38	17 14	0 26	0 18	2 32			n.a.
M14	23 19	12 18	2 18	21 45	1 56	20 2	0 35	17 19	3 10	13 0	0 57	14 32	1 55	14 21	0 47	22 19	0 5	17 37	17 13	0 25	0 17	2 36			n.a.
T 15	23 24	5 52	1 9	21 26	2 15	20 19	0 33	17 18	3 12	12 59	0 57	14 34	1 55	14 22	0 47	22 19	0 5	17 37	17 13	0 25	0 15	2 39			n.a.
W16	23 28	0n53	0n 5	21 7	2 31	20 36	0 31	17 17	3 14	12 58	0 56	14 36	1 55	14 22	0 47	22 19	0 5	17 37	17 13	0 25	0 14	2 42			n.a.
T 17	23 31	7 39	1 19	20 49	2 47	20 53	0 28	17 17	3 16	12 57	0 56	14 37	1 55	14 22	0 47	22 19	0 5	17 36	17 12	0 25	0 13	2 46			n.a.
F 18	23 34	14 3	2 29	20 32	3 0	21 9	0 26	17 16	3 18	12 56	0 56	14 39	1 55	14 22	0 47	22 18	0 5	17 36	17 12	0 24	0 12	2 49			n.a.
S 19	23 37	19 44	3 29	20 17	3 10	21 24	0 23	17 16	3 20	12 55	0 56	14 41	1 55	14 23	0 47	22 18	0 5	17 35	17 11	0 22	0 10	2 53			n.a.
S 20	23 39	24 18	4 16	20 3	3 19	21 39	0 21	17 16	3 22	12 55	0 55	14 42	1 55	14 23	0 47	22 18	0 5	17 35	17 11	0 18	0 9	2 56			n.a.
M21	23 41	27 21	4 46	19 52	3 25	21 53	0 18	17 16	3 25	12 54	0 55	14 44	1 56	14 24	0 47	22 17	0 5	17 35	17 11	0 14	0 8	3 0			n.a.
T 22	23 42	28 40	4 59	19 43	3 28	22 6	0 16	17 16	3 27	12 53	0 55	14 46	1 56	14 24	0 47	22 17	0 5	17 34	17 10	0 9	0 6	3 3			n.a.
W23	23 43	28 11	4 55	19 37	3 29	22 19	0 13	17 17	3 29	12 53	0 54	14 47	1 56	14 24	0 47	22 17	0 5	17 34	17 10	0 3	0 5	3 7			n.a.
T 24	23 43	26 3	4 34	19 33	3 29	22 31	0 10	17 18	3 31	12 52	0 54	14 49	1 56	14 25	0 47	22 16	0 5	17 33	17 10	0 s 1	0 4	3 10			n.a.
F 25	23 43	22 36	4 0	19 32	3 26	22 42	0 8	17 19	3 33	12 52	0 54	14 50	1 56	14 25	0 47	22 16	0 5	17 33	17 9	0 6	0 3	3 14			n.a.
S 26	23 42	18 10	3 14	19 33	3 22	22 53	0 5	17 20	3 35	12 52	0 54	14 52	1 56	14 26	0 47	22 16	0 5	17 33	17 9	0 9	0 1	3 17			n.a.
S 27	23 41	13 5	2 20	19 36	3 16	23 3	0 3	17 22	3 38	12 51	0 53	14 54	1 56	14 26	0 47	22 16	0 5	17 32	17 9	0 11	0 0	3 21			n.a.
M28	23 39	7 37	1 21	19 41	3 9	23 13	0 0	17 24	3 40	12 51	0 53	14 55	1 56	14 27	0 47	22 15	0 5	17 32	17 8	0 12	0 s 1	3 24			n.a.
T 29	23 37	1 57	0 19	19 48	3 1	23 21	0 s 2	17 26	3 42	12 51	0 53	14 56	1 56	14 27	0 47	22 15	0 5	17 31	17 8	0 12	0 3	3 28			n.a.
W30	23 34	3 s45	0 s43	19 57	2 53	23 29	0 5	17 28	3 44	12 51	0 52	14 58	1 56	14 28	0 47	22 15	0 5	17 31	17 7	0 12	0 4	3 31			n.a.
T 31	23 s31	9 s19	1 s44	20 s 7	2n44	23 s36	0 s 7	17n31	3n46	12n51	0 s52	14 s59	1n56	14n28	0n47	22 s14	0 s 5	17 s30	17 s 7	0 s12	0 s 5	3 s34			n.a.

Julian Day Number = 1672083.5, Delta T = 03h20m01s
Ecliptic obliquity = 23°42'50, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'53, Lahiri = - 5°48'53 Julian Calendar 1 Dec. 136 BCE == Greg. Calendar 28 Nov. 136 BCE

The year -135 astronomical counting style corresponds to year 136 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

JANUARY 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 28 29	8♑ 9'49	1♏24	15♐ 6	23♐36	23°R 5	5°R58	16♏12	23°R49	20♑20	25♓20	29°R27	29♓44	7♎28	n.a.	F 1
S 2	6 32 25	9°10'45	13°29	15°30	24°51	23♌ 2	5♉58	16°17	23♌47	20°22	25°21	29♓23	29°41	7°35	n.a.	S 2
S 3	6 36 22	10°11'41	25°50	16° 0	26° 6	22°58	5°D58	16°22	23°46	20°25	25°21	29°16	29°38	7°41	n.a.	S 3
M 4	6 40 19	11°12'36	8♐30	16°35	27°21	22°53	5°58	16°27	23°44	20°27	25°22	29° 6	29°35	7°48	n.a.	M 4
T 5	6 44 15	12°13'29	21°29	17°15	28°36	22°48	5°58	16°32	23°42	20°29	25°22	28°54	29°32	7°55	n.a.	T 5
W 6	6 48 12	13°14'22	4♑49	17°59	29°51	22°41	5°59	16°37	23°40	20°31	25°23	28°41	29°28	8° 1	n.a.	W 6
T 7	6 52 8	14°15'13	18°26	18°47	1♑ 6	22°34	5°59	16°41	23°39	20°34	25°23	28°29	29°25	8° 8	n.a.	T 7
F 8	6 56 5	15°16'03	2♒19	19°39	2°21	22°26	6° 0	16°46	23°37	20°36	25°24	28°18	29°22	8°15	n.a.	F 8
S 9	7 0 1	16°16'51	16°21	20°34	3°36	22°17	6° 1	16°51	23°35	20°38	25°25	28° 9	29°19	8°21	n.a.	S 9
S 10	7 3 58	17°17'37	0♓30	21°32	4°51	22° 7	6° 2	16°55	23°33	20°41	25°25	28° 3	29°16	8°28	n.a.	S 10
M11	7 7 55	18°18'22	14°41	22°33	6° 6	21°57	6° 4	17° 0	23°31	20°43	25°26	28° 1	29°12	8°35	n.a.	M11
T 12	7 11 51	19°19'05	28°52	23°36	7°21	21°46	6° 5	17° 4	23°29	20°45	25°27	28°D 0	29° 9	8°41	n.a.	T 12
W13	7 15 48	20°19'46	13♈ 0	24°42	8°36	21°34	6° 7	17° 9	23°27	20°47	25°27	28° 0	29° 6	8°48	n.a.	W13
T 14	7 19 44	21°20'25	27° 4	25°50	9°51	21°21	6° 9	17°13	23°25	20°50	25°28	28°R 0	29° 3	8°54	n.a.	T 14
F 15	7 23 41	22°21'03	11♉ 5	27° 0	11° 6	21° 8	6°12	17°17	23°23	20°52	25°29	27°59	29° 0	9° 1	n.a.	F 15
S 16	7 27 37	23°21'38	25° 0	28°12	12°21	20°53	6°14	17°21	23°21	20°54	25°29	27°55	28°57	9° 8	n.a.	S 16
S 17	7 31 34	24°22'12	8♊48	29°26	13°36	20°38	6°17	17°26	23°19	20°57	25°30	27°48	28°53	9°14	n.a.	S 17
M18	7 35 30	25°22'44	22°29	0♑41	14°51	20°23	6°19	17°30	23°16	20°59	25°31	27°40	28°50	9°21	n.a.	M18
T 19	7 39 27	26°23'14	5♋59	1°58	16° 6	20° 7	6°22	17°33	23°14	21° 1	25°32	27°29	28°47	9°28	n.a.	T 19
W20	7 43 24	27°23'43	19°15	3°16	17°21	19°50	6°26	17°37	23°12	21° 3	25°32	27°18	28°44	9°34	n.a.	W20
T 21	7 47 20	28°24'09	2♌17	4°36	18°36	19°32	6°29	17°41	23°10	21° 6	25°33	27° 8	28°41	9°41	n.a.	T 21
F 22	7 51 17	29°24'34	15° 3	5°57	19°51	19°14	6°33	17°45	23° 7	21° 8	25°34	26°59	28°38	9°48	n.a.	F 22
S 23	7 55 13	0♒24'57	27°32	7°19	21° 6	18°55	6°36	17°48	23° 5	21°10	25°35	26°52	28°34	9°54	n.a.	S 23
S 24	7 59 10	1°25'18	9♍46	8°43	22°21	18°35	6°40	17°52	23° 3	21°12	25°36	26°48	28°31	10° 1	n.a.	S 24
M25	8 3 6	2°25'38	21°48	10° 8	23°36	18°15	6°44	17°55	23° 0	21°15	25°37	26°D47	28°28	10° 8	n.a.	M25
T 26	8 7 3	3°25'56	3♎41	11°34	24°50	17°55	6°49	17°58	22°58	21°17	25°38	26°47	28°25	10°14	n.a.	T 26
W27	8 10 59	4°26'12	15°29	13° 1	26° 5	17°34	6°53	18° 2	22°56	21°19	25°39	26°48	28°22	10°21	n.a.	W27
T 28	8 14 56	5°26'27	27°18	14°30	27°20	17°13	6°58	18° 5	22°53	21°21	25°40	26°49	28°18	10°28	n.a.	T 28
F 29	8 18 52	6°26'40	9♏12	15°59	28°35	16°51	7° 3	18° 8	22°51	21°24	25°41	26°R49	28°15	10°34	n.a.	F 29
S 30	8 22 49	7°26'52	21°18	17°30	29°50	16°29	7° 8	18°11	22°48	21°26	25°42	26°48	28°12	10°41	n.a.	S 30
S 31	8 26 46	8♒27'02	3♐39	19♑ 2	1♒ 5	16♌ 6	7♉13	18♏14	22♌46	21♑28	25♓43	26♓45	28♓ 9	10♎48	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s28	14s36	2s40	20s19	2n34	23s43	0s 9	17n34	3n48	12n51	0s52	15s 1	1n57	14n29	0n47	22s14	0s 5	17s30	17s 7	0s13	0s 6	3s38		n.a.
S 2	23 24	19 25	3 31	20 31	2 24	23 49	0 12	17 37	3 51	12 51	0 52	15 2	1 57	14 29	0 47	22 14	0 5	17 29	17 6	0 15	0 8	3 41		n.a.
S 3	23 19	23 31	4 12	20 45	2 14	23 54	0 14	17 40	3 53	12 51	0 51	15 4	1 57	14 30	0 47	22 13	0 5	17 29	17 6	0 18	0 9	3 45		n.a.
M 4	23 14	26 37	4 42	20 58	2 4	23 58	0 17	17 44	3 55	12 52	0 51	15 5	1 57	14 30	0 47	22 13	0 5	17 28	17 6	0 22	0 10	3 48		n.a.
T 5	23 9	28 24	4 58	21 12	1 54	24 2	0 19	17 48	3 57	12 52	0 51	15 6	1 57	14 31	0 47	22 13	0 5	17 28	17 5	0 27	0 11	3 52		n.a.
W 6	23 3	28 37	4 59	21 27	1 43	24 4	0 22	17 52	3 59	12 52	0 51	15 7	1 57	14 32	0 47	22 12	0 5	17 27	17 5	0 32	0 13	3 55		n.a.
T 7	22 56	27 6	4 43	21 41	1 33	24 6	0 24	17 56	4 1	12 53	0 50	15 9	1 57	14 32	0 47	22 12	0 5	17 27	17 5	0 37	0 14	3 59		n.a.
F 8	22 50	23 56	4 10	21 56	1 23	24 8	0 26	18 1	4 3	12 53	0 50	15 10	1 57	14 33	0 47	22 12	0 5	17 26	17 4	0 41	0 15	4 2		n.a.
S 9	22 43	19 19	3 22	22 10	1 12	24 8	0 29	18 6	4 5	12 54	0 50	15 11	1 57	14 34	0 47	22 11	0 5	17 25	17 4	0 45	0 17	4 6		n.a.
S 10	22 35	13 36	2 20	22 24	1 2	24 8	0 31	18 11	4 7	12 55	0 49	15 12	1 57	14 34	0 48	22 11	0 5	17 25	17 4	0 47	0 18	4 9		n.a.
M11	22 27	7 10	1 10	22 38	0 52	24 7	0 33	18 16	4 9	12 55	0 49	15 14	1 58	14 35	0 48	22 11	0 5	17 24	17 3	0 48	0 19	4 12		n.a.
T 12	22 18	0 23	0n 5	22 51	0 42	24 6	0 35	18 22	4 11	12 56	0 49	15 15	1 58	14 36	0 48	22 10	0 5	17 24	17 3	0 48	0 20	4 16		n.a.
W13	22 9	6n24	1 19	23 4	0 33	24 3	0 37	18 27	4 13	12 57	0 49	15 16	1 58	14 36	0 48	22 10	0 5	17 23	17 3	0 48	0 22	4 19		n.a.
T 14	22 0	12 51	2 28	23 15	0 23	24 0	0 40	18 33	4 14	12 58	0 48	15 17	1 58	14 37	0 48	22 10	0 5	17 23	17 2	0 48	0 23	4 23		n.a.
F 15	21 50	18 37	3 28	23 27	0 14	23 56	0 42	18 39	4 16	12 59	0 48	15 18	1 58	14 38	0 48	22 9	0 5	17 22	17 2	0 49	0 24	4 26		n.a.
S 16	21 40	23 21	4 15	23 37	0 5	23 51	0 44	18 46	4 18	13 0	0 48	15 19	1 58	14 38	0 48	22 9	0 5	17 21	17 2	0 50	0 25	4 30		n.a.
S 17	21 29	26 45	4 47	23 46	0s 4	23 46	0 46	18 52	4 19	13 1	0 47	15 20	1 58	14 39	0 48	22 9	0 5	17 21	17 1	0 53	0 27	4 33		n.a.
M18	21 18	28 32	5 2	23 55	0 12	23 40	0 48	18 59	4 21	13 2	0 47	15 21	1 58	14 40	0 48	22 8	0 5	17 20	17 1	0 56	0 28	4 37		n.a.
T 19	21 7	28 35	5 0	24 3	0 21	23 33	0 50	19 5	4 23	13 4	0 47	15 22	1 59	14 41	0 48	22 8	0 5	17 20	17 1	1 1	0 29	4 40		n.a.
W20	20 55	26 58	4 42	24 9	0 29	23 26	0 52	19 12	4 24	13 5	0 47	15 23	1 59	14 41	0 48	22 8	0 5	17 19	17 0	1 5	0 31	4 44		n.a.
T 21	20 43	23 55	4 9	24 14	0 36	23 17	0 53	19 19	4 25	13 6	0 46	15 24	1 59	14 42	0 48	22 7	0 5	17 18	17 0	1 9	0 32	4 47		n.a.
F 22	20 30	19 45	3 24	24 19	0 44	23 8	0 55	19 26	4 27	13 8	0 46	15 25	1 59	14 43	0 48	22 7	0 5	17 18	17 0	1 13	0 33	4 50		n.a.
S 23	20 18	14 49	2 30	24 22	0 51	22 59	0 57	19 33	4 28	13 9	0 46	15 26	1 59	14 44	0 48	22 6	0 5	17 17	16 59	1 15	0 34	4 54		n.a.
S 24	20 4	9 23	1 30	24 24	0 58	22 48	0 59	19 41	4 29	13 11	0 46	15 27	1 59	14 45	0 48	22 6	0 5	17 17	16 59	1 17	0 36	4 57		n.a.
M25	19 51	3 42	0 27	24 24	1 5	22 37	1 1	19 48	4 30	13 12	0 45	15 27	1 59	14 45	0 48	22 6	0 5	17 16	16 59	1 18	0 37	5 1		n.a.
T 26	19 37	2s 3	0s37	24 23	1 11	22 25	1 2	19 55	4 31	13 14	0 45	15 28	2 0	14 46	0 48	22 5	0 5	17 15	16 58	1 18	0 38	5 4		n.a.
W27	19 22	7 41	1 39	24 21	1 17	22 13	1 4	20 3	4 32	13 16	0 45	15 29	2 0	14 47	0 48	22 5	0 5	17 15	16 58	1 17	0 40	5 8		n.a.
T 28	19 8	13 4	2 37	24 18	1 23	22 0	1 5	20 10	4 33	13 18	0 45	15 30	2 0	14 48	0 48	22 5	0 5	17 14	16 58	1 17	0 41	5 11		n.a.
F 29	18 53	18 1	3 28	24 13	1 29	21 46	1 7	20 18	4 33	13 19	0 44	15 30	2 0	14 49	0 48	22 4	0 5	17 13	16 58	1 17	0 42	5 14		n.a.
S 30	18 37	22 20	4 11	24 6	1 34	21 32	1 8	20 25	4 34	13 21	0 44	15 31	2 0	14 50	0 48	22 4	0 5	17 13	16 57	1 17	0 43	5 18		n.a.
S 31	18s21	25s46	4s44	23s58	1s39	21s17	1s10	20n33	4n34	13n23	0s44	15s32	2n 0	14n50	0n48	22s 4	0s 5	17s12	16s57	1s18	0s45	5s21		n.a.

Julian Day Number = 1672114.5, Delta T = 03h20m00s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'49, Lahiri = - 5°48'49 Julian Calendar 1 Jan. 135 BCE == Greg. Calendar 29 Dec. 136 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

FEBRUARY 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 30 42	9♒27'10	16♐20	20♑35	2♒19	15°R43	7♉18	18♏17	22°R43	21♑30	25♓44	26°R40	28♓ 6	10♎54	n.a.	M 1
T 2	8 34 39	10°27'16	29°25	22° 9	3°34	15♌20	7°24	18°19	22♌41	21°32	25°45	26♓33	28° 3	11° 1	n.a.	T 2
W 3	8 38 35	11°27'21	12♑54	23°44	4°49	14°57	7°29	18°22	22°38	21°35	25°46	26°25	27°59	11° 7	n.a.	W 3
T 4	8 42 32	12°27'24	26°46	25°20	6° 4	14°33	7°35	18°24	22°36	21°37	25°47	26°18	27°56	11°14	n.a.	T 4
F 5	8 46 28	13°27'25	10♒59	26°57	7°19	14°10	7°41	18°27	22°33	21°39	25°48	26°11	27°53	11°21	n.a.	F 5
S 6	8 50 25	14°27'24	25°26	28°36	8°33	13°46	7°47	18°29	22°31	21°41	25°49	26° 6	27°50	11°27	n.a.	S 6
S 7	8 54 22	15°27'21	10♓ 2	0♒15	9°48	13°22	7°54	18°31	22°28	21°43	25°50	26° 3	27°47	11°34	n.a.	S 7
M 8	8 58 18	16°27'16	24°39	1°56	11° 3	12°59	8° 0	18°33	22°25	21°45	25°51	26°D 2	27°44	11°41	n.a.	M 8
T 9	9 2 15	17°27'08	9♈13	3°37	12°17	12°35	8° 7	18°35	22°23	21°47	25°52	26° 2	27°40	11°47	n.a.	T 9
W10	9 6 11	18°26'58	23°39	5°20	13°32	12°12	8°14	18°37	22°20	21°49	25°53	26° 4	27°37	11°54	n.a.	W10
T 11	9 10 8	19°26'46	7♉53	7° 4	14°47	11°48	8°21	18°39	22°18	21°52	25°55	26° 5	27°34	12° 1	n.a.	T 11
F 12	9 14 4	20°26'31	21°54	8°49	16° 1	11°25	8°28	18°41	22°15	21°54	25°56	26°R 5	27°31	12° 7	n.a.	F 12
S 13	9 18 1	21°26'14	5♊41	10°36	17°16	11° 2	8°35	18°43	22°12	21°56	25°57	26° 5	27°28	12°14	n.a.	S 13
S 14	9 21 57	22°25'55	19°14	12°23	18°31	10°40	8°43	18°44	22°10	21°58	25°58	26° 2	27°24	12°21	n.a.	S 14
M15	9 25 54	23°25'33	2♋34	14°12	19°45	10°18	8°50	18°46	22° 7	22° 0	25°59	25°58	27°21	12°27	n.a.	M15
T 16	9 29 50	24°25'09	15°40	16° 2	21° 0	9°56	8°58	18°47	22° 5	22° 2	26° 0	25°53	27°18	12°34	n.a.	T 16
W17	9 33 47	25°24'43	28°32	17°53	22°15	9°34	9° 6	18°48	22° 2	22° 4	26° 2	25°48	27°15	12°41	n.a.	W17
T 18	9 37 44	26°24'14	11♌12	19°46	23°29	9°13	9°14	18°50	21°59	22° 6	26° 3	25°43	27°12	12°47	n.a.	T 18
F 19	9 41 40	27°23'43	23°40	21°39	24°44	8°53	9°22	18°51	21°57	22° 8	26° 4	25°39	27° 9	12°54	n.a.	F 19
S 20	9 45 37	28°23'10	5♍55	23°34	25°58	8°33	9°30	18°52	21°54	22°10	26° 5	25°36	27° 5	13° 1	n.a.	S 20
S 21	9 49 33	29°22'35	18° 1	25°30	27°13	8°13	9°38	18°52	21°52	22°11	26° 7	25°34	27° 2	13° 7	n.a.	S 21
M22	9 53 30	0♓21'57	29°57	27°27	28°27	7°55	9°47	18°53	21°49	22°13	26° 8	25°D34	26°59	13°14	n.a.	M22
T 23	9 57 26	1°21'18	11♎48	29°26	29°42	7°36	9°55	18°54	21°46	22°15	26° 9	25°35	26°56	13°20	n.a.	T 23
W24	10 1 23	2°20'37	23°36	1♓25	0♓56	7°19	10° 4	18°54	21°44	22°17	26°11	25°37	26°53	13°27	n.a.	W24
T 25	10 5 19	3°19'54	5♏25	3°25	2°11	7° 2	10°13	18°55	21°41	22°19	26°12	25°38	26°50	13°34	n.a.	T 25
F 26	10 9 16	4°19'08	17°20	5°27	3°25	6°45	10°22	18°55	21°39	22°21	26°13	25°40	26°46	13°40	n.a.	F 26
S 27	10 13 13	5°18'22	29°24	7°29	4°39	6°30	10°31	18°56	21°36	22°23	26°15	25°41	26°43	13°47	n.a.	S 27
S 28	10 17 9	6♓17'33	11♐44	9♓31	5♓54	6♌15	10♉40	18♏56	21♌34	22♑24	26♓16	25°R41	26♓40	13♎54	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s 5	28s 2	5s 3	23s49	1s43	21s 1	1s11	20n40	4n35	13n25	0s44	15s32	2n 0	14n51	0n48	22s 3	0s 5	17s11	16s57	1s20	0s46	5s25		n.a.
T 2	17 49	28 51	5 8	23 38	1 47	20 45	1 12	20 47	4 35	13 27	0 43	15 33	2 1	14 52	0 48	22 3	0 5	17 11	16 57	1 23	0 47	5 28		n.a.
W 3	17 33	27 59	4 56	23 25	1 51	20 28	1 13	20 55	4 35	13 29	0 43	15 34	2 1	14 53	0 48	22 3	0 5	17 10	16 56	1 26	0 48	5 32		n.a.
T 4	17 16	25 24	4 26	23 11	1 54	20 11	1 15	21 2	4 35	13 32	0 43	15 34	2 1	14 54	0 48	22 2	0 5	17 9	16 56	1 29	0 50	5 35		n.a.
F 5	16 58	21 12	3 40	22 55	1 57	19 52	1 16	21 9	4 35	13 34	0 43	15 35	2 1	14 55	0 48	22 2	0 5	17 9	16 56	1 32	0 51	5 38		n.a.
S 6	16 41	15 40	2 38	22 38	2 0	19 34	1 17	21 16	4 35	13 36	0 42	15 35	2 1	14 55	0 48	22 2	0 5	17 8	16 56	1 34	0 52	5 42		n.a.
S 7	16 23	9 13	1 26	22 19	2 2	19 15	1 18	21 22	4 34	13 38	0 42	15 36	2 1	14 56	0 48	22 1	0 5	17 7	16 55	1 35	0 54	5 45		n.a.
M 8	16 5	2 16	0 7	21 58	2 4	18 55	1 19	21 29	4 34	13 41	0 42	15 36	2 1	14 57	0 48	22 1	0 5	17 7	16 55	1 36	0 55	5 49		n.a.
T 9	15 47	4n47	1n11	21 36	2 5	18 35	1 20	21 35	4 33	13 43	0 42	15 37	2 2	14 58	0 48	22 1	0 5	17 6	16 55	1 36	0 56	5 52		n.a.
W10	15 28	11 31	2 25	21 12	2 6	18 14	1 20	21 41	4 33	13 45	0 41	15 37	2 2	14 59	0 48	22 0	0 5	17 6	16 55	1 35	0 57	5 56		n.a.
T 11	15 9	17 34	3 28	20 46	2 7	17 53	1 21	21 47	4 32	13 48	0 41	15 37	2 2	15 0	0 48	22 0	0 5	17 5	16 54	1 34	0 59	5 59		n.a.
F 12	14 50	22 36	4 18	20 18	2 7	17 31	1 22	21 53	4 31	13 51	0 41	15 38	2 2	15 1	0 48	22 0	0 5	17 4	16 54	1 34	1 0	6 2		n.a.
S 13	14 31	26 18	4 53	19 48	2 7	17 9	1 22	21 59	4 30	13 53	0 41	15 38	2 2	15 2	0 48	22 0	0 5	17 4	16 54	1 35	1 1	6 6		n.a.
S 14	14 12	28 25	5 10	19 17	2 6	16 46	1 23	22 4	4 29	13 56	0 40	15 38	2 2	15 2	0 48	21 59	0 5	17 3	16 54	1 36	1 3	6 9		n.a.
M15	13 52	28 51	5 10	18 44	2 4	16 23	1 24	22 9	4 28	13 58	0 40	15 38	2 3	15 3	0 48	21 59	0 5	17 2	16 54	1 37	1 4	6 13		n.a.
T 16	13 32	27 39	4 54	18 10	2 3	15 59	1 24	22 14	4 27	14 1	0 40	15 39	2 3	15 4	0 48	21 59	0 5	17 2	16 53	1 39	1 5	6 16		n.a.
W17	13 12	24 58	4 23	17 33	2 0	15 35	1 24	22 19	4 25	14 4	0 40	15 39	2 3	15 5	0 48	21 58	0 5	17 1	16 53	1 41	1 6	6 19		n.a.
T 18	12 51	21 7	3 39	16 55	1 57	15 11	1 25	22 23	4 24	14 7	0 40	15 39	2 3	15 6	0 48	21 58	0 5	17 0	16 53	1 43	1 8	6 23		n.a.
F 19	12 31	16 24	2 46	16 15	1 54	14 46	1 25	22 27	4 22	14 9	0 39	15 39	2 3	15 7	0 48	21 58	0 5	17 0	16 53	1 45	1 9	6 26		n.a.
S 20	12 10	11 5	1 46	15 33	1 50	14 20	1 25	22 31	4 21	14 12	0 39	15 39	2 3	15 8	0 48	21 57	0 5	16 59	16 53	1 46	1 10	6 30		n.a.
S 21	11 49	5 26	0 41	14 49	1 46	13 55	1 25	22 35	4 19	14 15	0 39	15 39	2 3	15 8	0 48	21 57	0 5	16 58	16 52	1 47	1 11	6 33		n.a.
M22	11 28	0s21	0s24	14 4	1 40	13 29	1 25	22 38	4 17	14 18	0 39	15 39	2 4	15 9	0 48	21 57	0 5	16 58	16 52	1 47	1 13	6 36		n.a.
T 23	11 7	6 4	1 28	13 17	1 35	13 2	1 25	22 41	4 16	14 21	0 39	15 40	2 4	15 10	0 48	21 56	0 5	16 57	16 52	1 46	1 14	6 40		n.a.
W24	10 46	11 34	2 28	12 28	1 29	12 36	1 25	22 44	4 14	14 24	0 38	15 40	2 4	15 11	0 48	21 56	0 5	16 56	16 52	1 46	1 15	6 43		n.a.
T 25	10 24	16 39	3 22	11 38	1 22	12 9	1 25	22 47	4 12	14 27	0 38	15 39	2 4	15 12	0 48	21 56	0 5	16 56	16 52	1 45	1 17	6 47		n.a.
F 26	10 2	21 9	4 8	10 47	1 15	11 41	1 25	22 49	4 10	14 30	0 38	15 39	2 4	15 13	0 48	21 56	0 5	16 55	16 52	1 45	1 18	6 50		n.a.
S 27	9 40	24 52	4 43	9 54	1 7	11 13	1 25	22 51	4 8	14 33	0 38	15 39	2 4	15 13	0 48	21 55	0 5	16 54	16 52	1 44	1 19	6 53		n.a.
S 28	9s18	27s31	5s 7	8s59	0s58	10s45	1s24	22n53	4n 5	14n36	0s37	15s39	2n 5	15n14	0n48	21s55	0s 5	16s54	16s51	1s44	1s20	6s57		n.a.

Julian Day Number = 1672145.5, Delta T = 03h19m59s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'45, Lahiri = - 5°48'44 Julian Calendar 1 Feb. 135 BCE == Greg. Calendar 29 Jan. 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

MARCH 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 21 6	7♓16'42	24♐22	11♓34	7♓ 8	6°R 0	10♉50	18°R56	21°R31	22♑26	26♓17	25°R40	26♓37	14♎ 0	n.a.	M 1
T 2	10 25 2	8°15'50	7♑24	13°38	8°23	5♌47	10°59	18♏56	21♌29	22°28	26°19	25♓38	26°34	14° 7	n.a.	T 2
W 3	10 28 59	9°14'55	20°52	15°41	9°37	5°34	11° 9	18°56	21°26	22°29	26°20	25°36	26°30	14°14	n.a.	W 3
T 4	10 32 55	10°13'59	4♒46	17°44	10°51	5°22	11°18	18°56	21°24	22°31	26°21	25°34	26°27	14°20	n.a.	T 4
F 5	10 36 52	11°13'01	19° 5	19°46	12° 6	5°11	11°28	18°55	21°22	22°33	26°23	25°32	26°24	14°27	n.a.	F 5
S 6	10 40 48	12°12'01	3♓44	21°48	13°20	5° 0	11°38	18°55	21°19	22°34	26°24	25°31	26°21	14°34	n.a.	S 6
S 7	10 44 45	13°10'58	18°38	23°49	14°34	4°51	11°48	18°54	21°17	22°36	26°25	25°D30	26°18	14°40	n.a.	S 7
M 8	10 48 42	14° 9'54	3♈38	25°47	15°49	4°42	11°58	18°54	21°14	22°38	26°27	25°30	26°15	14°47	n.a.	M 8
T 9	10 52 38	15° 8'47	18°37	27°44	17° 3	4°34	12° 9	18°53	21°12	22°39	26°28	25°31	26°11	14°54	n.a.	T 9
W10	10 56 35	16° 7'38	3♉25	29°39	18°17	4°26	12°19	18°52	21°10	22°41	26°29	25°32	26° 8	15° 0	n.a.	W10
T 11	11 0 31	17° 6'26	17°57	1♈31	19°32	4°20	12°29	18°51	21° 8	22°42	26°31	25°32	26° 5	15° 7	n.a.	T 11
F 12	11 4 28	18° 5'13	2♊10	3°20	20°46	4°14	12°40	18°50	21° 5	22°44	26°32	25°33	26° 2	15°14	n.a.	F 12
S 13	11 8 24	19° 3'57	16° 2	5° 6	22° 0	4° 9	12°50	18°49	21° 3	22°45	26°34	25°R33	25°59	15°20	n.a.	S 13
S 14	11 12 21	20° 2'39	29°32	6°48	23°14	4° 5	13° 1	18°48	21° 1	22°47	26°35	25°33	25°55	15°27	n.a.	S 14
M15	11 16 17	21° 1'18	12♋41	8°26	24°28	4° 2	13°12	18°47	20°59	22°48	26°36	25°33	25°52	15°34	n.a.	M15
T 16	11 20 14	21°59'55	25°33	10° 0	25°43	3°59	13°23	18°45	20°57	22°50	26°38	25°32	25°49	15°40	n.a.	T 16
W17	11 24 10	22°58'30	8♌ 8	11°30	26°57	3°58	13°34	18°44	20°54	22°51	26°39	25°32	25°46	15°47	n.a.	W17
T 18	11 28 7	23°57'02	20°31	12°55	28°11	3°57	13°45	18°42	20°52	22°52	26°41	25°32	25°43	15°53	n.a.	T 18
F 19	11 32 4	24°55'32	2♍42	14°15	29°25	3°D56	13°56	18°41	20°50	22°54	26°42	25°32	25°40	16° 0	n.a.	F 19
S 20	11 36 0	25°54'00	14°44	15°30	0♈39	3°57	14° 7	18°39	20°48	22°55	26°43	25°D32	25°36	16° 7	n.a.	S 20
S 21	11 39 57	26°52'26	26°40	16°40	1°53	3°58	14°19	18°37	20°46	22°56	26°45	25°R32	25°33	16°13	n.a.	S 21
M22	11 43 53	27°50'50	8♎32	17°45	3° 7	4° 0	14°30	18°35	20°45	22°57	26°46	25°32	25°30	16°20	n.a.	M22
T 23	11 47 50	28°49'13	20°20	18°44	4°21	4° 3	14°41	18°33	20°43	22°58	26°48	25°31	25°27	16°27	n.a.	T 23
W24	11 51 46	29°47'33	2♏ 9	19°38	5°35	4° 6	14°53	18°31	20°41	23° 0	26°49	25°31	25°24	16°33	n.a.	W24
T 25	11 55 43	0♈45'52	14° 0	20°26	6°49	4°10	15° 5	18°29	20°39	23° 1	26°50	25°30	25°21	16°40	n.a.	T 25
F 26	11 59 39	1°44'08	25°57	21° 9	8° 3	4°15	15°16	18°27	20°37	23° 2	26°52	25°30	25°17	16°47	n.a.	F 26
S 27	12 3 36	2°42'24	8♐ 4	21°47	9°17	4°21	15°28	18°24	20°35	23° 3	26°53	25°29	25°14	16°53	n.a.	S 27
S 28	12 7 33	3°40'37	20°23	22°18	10°31	4°27	15°40	18°22	20°34	23° 4	26°55	25°28	25°11	17° 0	n.a.	S 28
M29	12 11 29	4°38'50	2♑59	22°44	11°45	4°33	15°52	18°20	20°32	23° 5	26°56	25°D28	25° 8	17° 7	n.a.	M29
T 30	12 15 26	5°37'00	15°56	23° 5	12°59	4°41	16° 4	18°17	20°31	23° 6	26°57	25°28	25° 5	17°13	n.a.	T 30
W31	12 19 22	6♈35'09	29♑16	23♈20	14♈13	4♌49	16♉16	18♏14	20♌29	23♑ 7	26♓59	25♓29	25♓ 1	17♎20	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	8s56	28s51	5s16	8s 4	0s49	10s17	1s24	22n54	4n 3	14n39	0s37	15s39	2n 5	15n15	0n48	21s55	0s 5	16s53	16s51	1s45	1s22	7s 0			n.a.
T 2	8 34	28 39	5 9	7 7	0 40	9 49	1 24	22 56	4 1	14 42	0 37	15 39	2 5	15 16	0 48	21 54	0 5	16 52	16 51	1 45	1 23	7 4			n.a.
W 3	8 12	26 47	4 46	6 10	0 30	9 20	1 23	22 57	3 59	14 46	0 37	15 39	2 5	15 17	0 48	21 54	0 5	16 52	16 51	1 46	1 24	7 7			n.a.
T 4	7 49	23 15	4 5	5 12	0 20	8 51	1 23	22 58	3 56	14 49	0 37	15 39	2 5	15 17	0 48	21 54	0 6	16 51	16 51	1 47	1 26	7 10			n.a.
F 5	7 26	18 15	3 8	4 14	0 9	8 22	1 22	22 58	3 54	14 52	0 36	15 38	2 5	15 18	0 48	21 54	0 6	16 50	16 51	1 48	1 27	7 14			n.a.
S 6	7 4	12 5	1 58	3 15	0n 2	7 52	1 21	22 58	3 52	14 55	0 36	15 38	2 5	15 19	0 48	21 53	0 6	16 50	16 51	1 48	1 28	7 17			n.a.
S 7	6 41	5 8	0 38	2 17	0 14	7 23	1 20	22 58	3 49	14 59	0 36	15 38	2 6	15 20	0 48	21 53	0 6	16 49	16 51	1 48	1 29	7 21			n.a.
M 8	6 18	2n 9	0n45	1 18	0 25	6 53	1 20	22 58	3 47	15 2	0 36	15 38	2 6	15 20	0 48	21 53	0 6	16 48	16 51	1 48	1 31	7 24			n.a.
T 9	5 55	9 18	2 5	0 21	0 37	6 23	1 19	22 58	3 44	15 5	0 36	15 37	2 6	15 21	0 48	21 53	0 6	16 48	16 51	1 48	1 32	7 27			n.a.
W10	5 32	15 51	3 15	0n36	0 49	5 52	1 18	22 57	3 42	15 9	0 36	15 37	2 6	15 22	0 48	21 52	0 6	16 47	16 50	1 48	1 33	7 31			n.a.
T 11	5 9	21 24	4 12	1 32	1 0	5 22	1 17	22 56	3 39	15 12	0 35	15 36	2 6	15 23	0 48	21 52	0 6	16 47	16 50	1 48	1 34	7 34			n.a.
F 12	4 46	25 35	4 51	2 26	1 12	4 52	1 16	22 55	3 37	15 16	0 35	15 36	2 6	15 23	0 48	21 52	0 6	16 46	16 50	1 47	1 36	7 37			n.a.
S 13	4 22	28 10	5 13	3 19	1 23	4 21	1 15	22 54	3 34	15 19	0 35	15 36	2 6	15 24	0 48	21 52	0 6	16 45	16 50	1 47	1 37	7 41			n.a.
S 14	3 59	28 59	5 17	4 11	1 35	3 50	1 14	22 53	3 32	15 22	0 35	15 35	2 7	15 25	0 48	21 52	0 6	16 45	16 50	1 47	1 38	7 44			n.a.
M15	3 36	28 8	5 3	5 0	1 45	3 20	1 12	22 51	3 29	15 26	0 35	15 35	2 7	15 25	0 48	21 51	0 6	16 44	16 50	1 47	1 40	7 48			n.a.
T 16	3 13	25 47	4 35	5 47	1 56	2 49	1 11	22 49	3 27	15 29	0 34	15 34	2 7	15 26	0 48	21 51	0 6	16 44	16 50	1 48	1 41	7 51			n.a.
W17	2 49	22 12	3 54	6 31	2 6	2 18	1 10	22 47	3 24	15 33	0 34	15 34	2 7	15 27	0 48	21 51	0 6	16 43	16 50	1 48	1 42	7 54			n.a.
T 18	2 26	17 42	3 3	7 13	2 15	1 47	1 8	22 45	3 22	15 36	0 34	15 33	2 7	15 27	0 48	21 51	0 6	16 42	16 50	1 48	1 43	7 58			n.a.
F 19	2 2	12 33	2 3	7 53	2 24	1 15	1 7	22 43	3 19	15 40	0 34	15 33	2 7	15 28	0 48	21 50	0 6	16 42	16 50	1 48	1 45	8 1			n.a.
S 20	1 39	6 59	1 0	8 30	2 31	0 44	1 6	22 40	3 16	15 43	0 34	15 32	2 7	15 29	0 48	21 50	0 6	16 41	16 50	1 48	1 46	8 4			n.a.
S 21	1 15	1 14	0s 6	9 3	2 39	0 13	1 4	22 37	3 14	15 47	0 34	15 31	2 8	15 29	0 48	21 50	0 6	16 41	16 50	1 48	1 47	8 8			n.a.
M22	0 52	4s31	1 12	9 34	2 45	0n18	1 2	22 34	3 11	15 51	0 33	15 31	2 8	15 30	0 48	21 50	0 6	16 40	16 50	1 48	1 48	8 11			n.a.
T 23	0 28	10 6	2 14	10 2	2 50	0 49	1 1	22 31	3 9	15 54	0 33	15 30	2 8	15 30	0 48	21 50	0 6	16 39	16 50	1 48	1 50	8 14			n.a.
W24	0 5	15 19	3 10	10 27	2 55	1 20	0 59	22 28	3 6	15 58	0 33	15 29	2 8	15 31	0 48	21 49	0 6	16 39	16 50	1 48	1 51	8 18			n.a.
T 25	0n18	20 0	3 58	10 49	2 58	1 52	0 57	22 25	3 4	16 1	0 33	15 29	2 8	15 32	0 48	21 49	0 6	16 38	16 50	1 48	1 52	8 21			n.a.
F 26	0 42	23 56	4 36	11 8	3 1	2 23	0 56	22 21	3 1	16 5	0 33	15 28	2 8	15 32	0 48	21 49	0 6	16 38	16 50	1 49	1 54	8 24			n.a.
S 27	1 5	26 53	5 3	11 23	3 2	2 54	0 54	22 17	2 59	16 9	0 33	15 27	2 8	15 33	0 48	21 49	0 6	16 37	16 50	1 49	1 55	8 28			n.a.
S 28	1 29	28 37	5 16	11 36	3 2	3 25	0 52	22 13	2 57	16 12	0 32	15 26	2 8	15 33	0 48	21 49	0 6	16 37	16 50	1 49	1 56	8 31			n.a.
M29	1 52	28 55	5 14	11 45	3 1	3 56	0 50	22 9	2 54	16 16	0 32	15 26	2 8	15 34	0 48	21 49	0 6	16 36	16 50	1 49	1 57	8 35			n.a.
T 30	2 15	27 40	4 57	11 50	2 59	4 27	0 48	22 5	2 52	16 19	0 32	15 25	2 9	15 34	0 47	21 48	0 6	16 36	16 50	1 49	1 59	8 38			n.a.
W31	2n39	24s50	4s24	11n53	2n56	4n58	0s46	22n 1	2n49	16n23	0s32	15s24	2n 9	15n35	0n47	21s48	0s 6	16s35	16s50	1s49	2s 0	8s41			n.a.

Julian Day Number = 1672173.5, Delta T = 03h19m58s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'41, Lahiri = - 5°48'41 Julian Calendar 1 March 135 BCE == Greg. Calendar 26 Feb. 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

APRIL 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 23 19	7♈33'17	13♒ 3	23♈29	15♈27	4♌58	16♉28	18°R12	20°R27	23♑ 8	27♓ 0	25♓30	24♓58	17♎27	n.a.	T 1
F 2	12 27 15	8°31'23	27°16	23°R32	16°41	5° 7	16°40	18♏ 9	20♌26	23° 9	27° 2	25°31	24°55	17°33	n.a.	F 2
S 3	12 31 12	9°29'27	11♓53	23°31	17°55	5°17	16°53	18° 6	20°25	23°10	27° 3	25°31	24°52	17°40	n.a.	S 3
S 4	12 35 8	10°27'29	26°50	23°24	19° 8	5°27	17° 5	18° 3	20°23	23°10	27° 4	25°R32	24°49	17°47	n.a.	S 4
M 5	12 39 5	11°25'30	11♈59	23°13	20°22	5°38	17°17	18° 0	20°22	23°11	27° 6	25°31	24°46	17°53	n.a.	M 5
T 6	12 43 2	12°23'30	27°11	22°56	21°36	5°50	17°30	17°57	20°20	23°12	27° 7	25°30	24°42	18° 0	n.a.	T 6
W 7	12 46 58	13°21'27	12♉16	22°36	22°50	6° 2	17°42	17°54	20°19	23°13	27° 8	25°28	24°39	18° 7	n.a.	W 7
T 8	12 50 55	14°19'23	27° 7	22°12	24° 4	6°15	17°55	17°50	20°18	23°13	27°10	25°26	24°36	18°13	n.a.	T 8
F 9	12 54 51	15°17'17	11♊34	21°44	25°17	6°28	18° 7	17°47	20°17	23°14	27°11	25°23	24°33	18°20	n.a.	F 9
S 10	12 58 48	16°15'10	25°37	21°13	26°31	6°42	18°20	17°44	20°16	23°15	27°12	25°21	24°30	18°27	n.a.	S 10
S 11	13 2 44	17°13'00	9♋12	20°41	27°45	6°57	18°33	17°40	20°15	23°15	27°14	25°20	24°27	18°33	n.a.	S 11
M12	13 6 41	18°10'48	22°21	20° 6	28°59	7°11	18°45	17°37	20°14	23°16	27°15	25°D20	24°23	18°40	n.a.	M12
T 13	13 10 37	19° 8'35	5♌ 8	19°30	0♉12	7°27	18°58	17°33	20°13	23°17	27°16	25°21	24°20	18°47	n.a.	T 13
W14	13 14 34	20° 6'20	17°35	18°54	1°26	7°43	19°11	17°30	20°12	23°17	27°18	25°22	24°17	18°53	n.a.	W14
T 15	13 18 31	21° 4'03	29°47	18°19	2°40	7°59	19°24	17°26	20°11	23°18	27°19	25°24	24°14	19° 0	n.a.	T 15
F 16	13 22 27	22° 1'44	11♍48	17°43	3°53	8°16	19°37	17°22	20°10	23°18	27°20	25°25	24°11	19° 7	n.a.	F 16
S 17	13 26 24	22°59'24	23°42	17°10	5° 7	8°33	19°50	17°18	20° 9	23°18	27°22	25°R26	24° 7	19°13	n.a.	S 17
S 18	13 30 20	23°57'02	5♎32	16°38	6°21	8°51	20° 3	17°15	20° 9	23°19	27°23	25°26	24° 4	19°20	n.a.	S 18
M19	13 34 17	24°54'39	17°20	16° 9	7°34	9° 9	20°16	17°11	20° 8	23°19	27°24	25°24	24° 1	19°26	n.a.	M19
T 20	13 38 13	25°52'14	29° 9	15°42	8°48	9°28	20°29	17° 7	20° 7	23°19	27°25	25°20	23°58	19°33	n.a.	T 20
W21	13 42 10	26°49'48	11♏ 1	15°19	10° 1	9°47	20°42	17° 3	20° 7	23°20	27°27	25°16	23°55	19°40	n.a.	W21
T 22	13 46 6	27°47'21	22°58	15° 0	11°15	10° 6	20°55	16°59	20° 6	23°20	27°28	25°10	23°52	19°46	n.a.	T 22
F 23	13 50 3	28°44'52	5♐ 2	14°45	12°28	10°26	21° 8	16°55	20° 6	23°20	27°29	25° 5	23°48	19°53	n.a.	F 23
S 24	13 53 59	29°42'23	17°15	14°33	13°42	10°46	21°22	16°51	20° 5	23°20	27°30	24°59	23°45	20° 0	n.a.	S 24
S 25	13 57 56	0♑39'53	29°39	14°26	14°55	11° 7	21°35	16°47	20° 5	23°21	27°32	24°54	23°42	20° 6	n.a.	S 25
M26	14 1 53	1°37'21	12♑18	14°D24	16° 9	11°28	21°48	16°42	20° 5	23°21	27°33	24°51	23°39	20°13	n.a.	M26
T 27	14 5 49	2°34'49	25°13	14°26	17°22	11°49	22° 1	16°38	20° 5	23°21	27°34	24°49	23°36	20°20	n.a.	T 27
W28	14 9 46	3°32'16	8♒28	14°32	18°36	12°11	22°15	16°34	20° 4	23°21	27°35	24°D49	23°32	20°26	n.a.	W28
T 29	14 13 42	4°29'42	22° 6	14°43	19°49	12°33	22°28	16°30	20° 4	23°R21	27°36	24°50	23°29	20°33	n.a.	T 29
F 30	14 17 39	5♑27'07	6♓ 7	14♈59	21♉ 2	12♌55	22♉42	16♏25	20♌ 4	23♑21	27♓38	24♓52	23♓26	20♎40	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 2	20s31	3s34	11n52	2n51	5n28	0s44	21n56	2n47	16n27	0s32	15s23	2n 9	15n35	0n47	21s48	0s 6	16s35	16s50	1s49	2s 1	8s45		n.a.
F 2	3 25	14 55	2 30	11 48	2 45	5 59	0 42	21 52	2 45	16 30	0 32	15 22	2 9	15 35	0 47	21 48	0 6	16 34	16 50	1 48	2 2	8 48		n.a.
S 3	3 48	8 20	1 15	11 40	2 38	6 29	0 40	21 47	2 42	16 34	0 31	15 21	2 9	15 36	0 47	21 48	0 6	16 34	16 50	1 48	2 4	8 51		n.a.
S 4	4 11	1 10	0n 7	11 30	2 30	7 0	0 38	21 42	2 40	16 38	0 31	15 20	2 9	15 36	0 47	21 48	0 6	16 33	16 50	1 48	2 5	8 55		n.a.
M 5	4 34	6n10	1 30	11 17	2 20	7 30	0 36	21 37	2 38	16 41	0 31	15 19	2 9	15 37	0 47	21 48	0 6	16 33	16 50	1 48	2 6	8 58		n.a.
T 6	4 57	13 10	2 46	11 1	2 9	8 0	0 34	21 32	2 35	16 45	0 31	15 19	2 9	15 37	0 47	21 48	0 6	16 32	16 51	1 49	2 8	9 1		n.a.
W 7	5 20	19 21	3 51	10 42	1 57	8 30	0 31	21 27	2 33	16 49	0 31	15 18	2 9	15 37	0 47	21 47	0 6	16 32	16 51	1 49	2 9	9 4		n.a.
T 8	5 43	24 14	4 38	10 21	1 44	8 59	0 29	21 21	2 31	16 52	0 31	15 17	2 9	15 38	0 47	21 47	0 6	16 31	16 51	1 50	2 10	9 8		n.a.
F 9	6 5	27 29	5 6	9 57	1 30	9 29	0 27	21 16	2 28	16 56	0 31	15 16	2 9	15 38	0 47	21 47	0 6	16 31	16 51	1 51	2 11	9 11		n.a.
S 10	6 28	28 54	5 15	9 32	1 15	9 58	0 25	21 10	2 26	17 0	0 30	15 15	2 9	15 39	0 47	21 47	0 6	16 30	16 51	1 52	2 13	9 14		n.a.
S 11	6 50	28 29	5 6	9 5	0 59	10 27	0 22	21 4	2 24	17 3	0 30	15 14	2 10	15 39	0 47	21 47	0 6	16 30	16 51	1 52	2 14	9 18		n.a.
M12	7 13	26 27	4 41	8 36	0 43	10 55	0 20	20 58	2 22	17 7	0 30	15 12	2 10	15 39	0 47	21 47	0 6	16 29	16 51	1 52	2 15	9 21		n.a.
T 13	7 35	23 7	4 3	8 7	0 26	11 24	0 18	20 52	2 20	17 11	0 30	15 11	2 10	15 39	0 47	21 47	0 6	16 29	16 51	1 52	2 16	9 24		n.a.
W14	7 57	18 48	3 14	7 38	0 9	11 52	0 15	20 46	2 18	17 14	0 30	15 10	2 10	15 40	0 47	21 47	0 6	16 29	16 51	1 52	2 18	9 28		n.a.
T 15	8 19	13 48	2 17	7 8	0s 8	12 20	0 13	20 40	2 16	17 18	0 30	15 9	2 10	15 40	0 47	21 47	0 6	16 28	16 51	1 51	2 19	9 31		n.a.
F 16	8 41	8 21	1 14	6 39	0 25	12 48	0 10	20 33	2 13	17 22	0 30	15 8	2 10	15 40	0 47	21 47	0 6	16 28	16 52	1 50	2 20	9 34		n.a.
S 17	9 2	2 40	0 10	6 10	0 42	13 15	0 8	20 27	2 11	17 25	0 29	15 7	2 10	15 40	0 47	21 47	0 6	16 27	16 52	1 50	2 22	9 38		n.a.
S 18	9 24	3s 4	0s55	5 43	0 59	13 42	0 6	20 20	2 9	17 29	0 29	15 6	2 10	15 41	0 47	21 47	0 6	16 27	16 52	1 50	2 23	9 41		n.a.
M19	9 45	8 41	1 57	5 16	1 15	14 9	0 3	20 13	2 7	17 33	0 29	15 5	2 10	15 41	0 47	21 47	0 6	16 27	16 52	1 51	2 24	9 44		n.a.
T 20	10 6	14 0	2 54	4 52	1 30	14 35	0 1	20 6	2 5	17 36	0 29	15 4	2 10	15 41	0 47	21 47	0 6	16 26	16 52	1 52	2 25	9 48		n.a.
W21	10 27	18 51	3 44	4 29	1 45	15 1	0n 2	19 59	2 3	17 40	0 29	15 3	2 10	15 41	0 47	21 46	0 6	16 26	16 52	1 54	2 27	9 51		n.a.
T 22	10 48	22 59	4 24	4 9	1 59	15 27	0 4	19 52	2 1	17 44	0 29	15 1	2 10	15 41	0 47	21 46	0 6	16 26	16 52	1 56	2 28	9 54		n.a.
F 23	11 9	26 11	4 53	3 51	2 12	15 52	0 7	19 44	1 59	17 47	0 29	15 0	2 10	15 41	0 47	21 46	0 6	16 25	16 53	1 59	2 29	9 57		n.a.
S 24	11 30	28 13	5 8	3 35	2 24	16 17	0 9	19 37	1 57	17 51	0 29	14 59	2 10	15 41	0 47	21 46	0 6	16 25	16 53	2 1	2 30	10 1		n.a.
S 25	11 50	28 53	5 10	3 22	2 36	16 41	0 12	19 29	1 55	17 55	0 28	14 58	2 10	15 41	0 47	21 46	0 6	16 25	16 53	2 3	2 32	10 4		n.a.
M26	12 10	28 4	4 57	3 12	2 46	17 5	0 14	19 21	1 54	17 58	0 28	14 57	2 10	15 41	0 47	21 46	0 6	16 24	16 53	2 4	2 33	10 7		n.a.
T 27	12 30	25 44	4 29	3 4	2 55	17 29	0 17	19 14	1 52	18 2	0 28	14 55	2 10	15 42	0 46	21 46	0 6	16 24	16 53	2 5	2 34	10 11		n.a.
W28	12 50	21 59	3 46	2 59	3 3	17 52	0 19	19 6	1 50	18 5	0 28	14 54	2 10	15 42	0 46	21 46	0 6	16 24	16 54	2 5	2 36	10 14		n.a.
T 29	13 10	16 58	2 49	2 57	3 10	18 14	0 22	18 58	1 48	18 9	0 28	14 53	2 10	15 42	0 46	21 46	0 6	16 23	16 54	2 4	2 37	10 17		n.a.
F 30	13n29	10s55	1s40	2n57	3s16	18n37	0n24	18n49	1n46	18n13	0s28	14s52	2n10	15n42	0n46	21s46	0s 6	16s23	16s54	2s 4	2s38	10s20		n.a.

Julian Day Number = 1672204.5, Delta T = 03h19m57s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'37, Lahiri = - 5°48'36 Julian Calendar 1 Apr. 135 BCE == Greg. Calendar 29 March 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

MAY 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 35	6♉24'31	20♓32	15♈19	22♉16	13♌18	22♉55	16°R21	20°D 4	23°R21	27♓39	24°R52	23♓23	20♎46	n.a.	S 1
S 2	14 25 32	7°21'55	5♈18	15°43	23°29	13°41	23° 9	16♏17	20♌ 4	23♑21	27°40	24♓52	23°20	20°53	n.a.	S 2
M 3	14 29 28	8°19'17	20°20	16°12	24°43	14° 5	23°22	16°12	20° 4	23°21	27°41	24°50	23°17	21° 0	n.a.	M 3
T 4	14 33 25	9°16'39	5♉31	16°44	25°56	14°28	23°36	16° 8	20° 4	23°20	27°42	24°46	23°13	21° 6	n.a.	T 4
W 5	14 37 22	10°14'00	20°39	17°21	27° 9	14°53	23°49	16° 4	20° 4	23°20	27°43	24°40	23°10	21°13	n.a.	W 5
T 6	14 41 18	11°11'21	5♊36	18° 2	28°23	15°17	24° 3	15°59	20° 5	23°20	27°44	24°33	23° 7	21°20	n.a.	T 6
F 7	14 45 15	12° 8'40	20°13	18°47	29°36	15°42	24°16	15°55	20° 5	23°20	27°45	24°26	23° 4	21°26	n.a.	F 7
S 8	14 49 11	13° 5'58	4♋24	19°35	0♊49	16° 7	24°30	15°51	20° 5	23°20	27°46	24°20	23° 1	21°33	n.a.	S 8
S 9	14 53 8	14° 3'15	18° 6	20°27	2° 2	16°32	24°43	15°46	20° 6	23°19	27°47	24°15	22°58	21°40	n.a.	S 9
M10	14 57 4	15° 0'31	1♌19	21°23	3°16	16°58	24°57	15°42	20° 6	23°19	27°48	24°12	22°54	21°46	n.a.	M10
T 11	15 1 1	15°57'46	14° 7	22°23	4°29	17°24	25°11	15°37	20° 7	23°19	27°49	24°D11	22°51	21°53	n.a.	T 11
W12	15 4 58	16°55'00	26°33	23°25	5°42	17°50	25°24	15°33	20° 7	23°18	27°50	24°12	22°48	22° 0	n.a.	W12
T 13	15 8 54	17°52'13	8♍43	24°32	6°55	18°17	25°38	15°29	20° 8	23°18	27°51	24°13	22°45	22° 6	n.a.	T 13
F 14	15 12 51	18°49'25	20°40	25°41	8° 8	18°43	25°52	15°24	20° 8	23°17	27°52	24°R14	22°42	22°13	n.a.	F 14
S 15	15 16 47	19°46'37	2♎30	26°54	9°22	19°10	26° 5	15°20	20° 9	23°17	27°53	24°13	22°38	22°20	n.a.	S 15
S 16	15 20 44	20°43'47	14°18	28°10	10°35	19°38	26°19	15°15	20°10	23°16	27°54	24°11	22°35	22°26	n.a.	S 16
M17	15 24 40	21°40'57	26° 6	29°30	11°48	20° 5	26°33	15°11	20°11	23°16	27°55	24° 7	22°32	22°33	n.a.	M17
T 18	15 28 37	22°38'06	7♏58	0♉52	13° 1	20°33	26°46	15° 7	20°12	23°15	27°56	24° 0	22°29	22°40	n.a.	T 18
W19	15 32 33	23°35'15	19°57	2°18	14°14	21° 1	27° 0	15° 2	20°12	23°15	27°57	23°51	22°26	22°46	n.a.	W19
T 20	15 36 30	24°32'23	2♐ 3	3°47	15°27	21°29	27°14	14°58	20°13	23°14	27°58	23°41	22°23	22°53	n.a.	T 20
F 21	15 40 27	25°29'31	14°19	5°19	16°40	21°58	27°27	14°54	20°14	23°13	27°59	23°29	22°19	23° 0	n.a.	F 21
S 22	15 44 23	26°26'38	26°44	6°54	17°53	22°27	27°41	14°49	20°15	23°13	27°59	23°19	22°16	23° 6	n.a.	S 22
S 23	15 48 20	27°23'46	9♑20	8°31	19° 6	22°56	27°55	14°45	20°17	23°12	28° 0	23° 9	22°13	23°13	n.a.	S 23
M24	15 52 16	28°20'53	22° 9	10°12	20°19	23°25	28° 9	14°41	20°18	23°11	28° 1	23° 2	22°10	23°20	n.a.	M24
T 25	15 56 13	29°18'00	5♒10	11°56	21°32	23°54	28°22	14°37	20°19	23°10	28° 2	22°57	22° 7	23°26	n.a.	T 25
W26	16 0 9	0♊15'07	18°27	13°43	22°45	24°24	28°36	14°32	20°20	23°10	28° 3	22°55	22° 4	23°33	n.a.	W26
T 27	16 4 6	1°12'14	2♓ 1	15°33	23°58	24°54	28°50	14°28	20°22	23° 9	28° 3	22°D55	22° 0	23°40	n.a.	T 27
F 28	16 8 2	2° 9'22	15°53	17°25	25°11	25°24	29° 3	14°24	20°23	23° 8	28° 4	22°R55	21°57	23°46	n.a.	F 28
S 29	16 11 59	3° 6'29	0♈ 4	19°20	26°24	25°54	29°17	14°20	20°24	23° 7	28° 5	22°55	21°54	23°53	n.a.	S 29
S 30	16 15 56	4° 3'37	14°34	21°17	27°37	26°24	29°31	14°16	20°26	23° 6	28° 5	22°53	21°51	24° 0	n.a.	S 30
M31	16 19 52	5♊ 0'44	29♈19	23♉17	28♊49	26♌55	29♉44	14♏12	20♌27	23♑ 5	28♓ 6	22♓49	21♓48	24♎ 6	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n49	4s 9	0s24	3n 0	3s21	18n58	0n26	18n41	1n44	18n16	0s28	14s51	2n10	15n42	0n46	21s46	0s 6	16s23	16s54	2s 4	2s39	10s24		n.a.
S 2	14 8	2n59	0n56	3 6	3 25	19 19	0 29	18 33	1 43	18 20	0 28	14 49	2 10	15 41	0 46	21 46	0 6	16 23	16 54	2 4	2 41	10 27		n.a.
M 3	14 26	10 6	2 14	3 14	3 28	19 40	0 31	18 24	1 41	18 23	0 27	14 48	2 10	15 41	0 46	21 47	0 6	16 22	16 55	2 5	2 42	10 30		n.a.
T 4	14 45	16 41	3 22	3 25	3 31	20 0	0 34	18 15	1 39	18 27	0 27	14 47	2 10	15 41	0 46	21 47	0 6	16 22	16 55	2 6	2 43	10 33		n.a.
W 5	15 3	22 13	4 16	3 38	3 32	20 20	0 36	18 6	1 37	18 30	0 27	14 46	2 10	15 41	0 46	21 47	0 6	16 22	16 55	2 9	2 44	10 37		n.a.
T 6	15 21	26 16	4 52	3 53	3 32	20 39	0 39	17 57	1 36	18 34	0 27	14 44	2 10	15 41	0 46	21 47	0 6	16 22	16 55	2 11	2 46	10 40		n.a.
F 7	15 39	28 27	5 7	4 11	3 32	20 58	0 41	17 48	1 34	18 37	0 27	14 43	2 10	15 41	0 46	21 47	0 6	16 21	16 56	2 14	2 47	10 43		n.a.
S 8	15 57	28 42	5 3	4 31	3 30	21 16	0 43	17 39	1 32	18 41	0 27	14 42	2 10	15 41	0 46	21 47	0 7	16 21	16 56	2 17	2 48	10 46		n.a.
S 9	16 14	27 8	4 42	4 52	3 28	21 33	0 46	17 30	1 31	18 44	0 27	14 41	2 10	15 41	0 46	21 47	0 7	16 21	16 56	2 18	2 50	10 50		n.a.
M10	16 31	24 5	4 6	5 16	3 25	21 50	0 48	17 20	1 29	18 47	0 27	14 40	2 10	15 41	0 46	21 47	0 7	16 21	16 56	2 20	2 51	10 53		n.a.
T 11	16 48	19 57	3 19	5 42	3 21	22 6	0 50	17 11	1 27	18 51	0 27	14 38	2 10	15 40	0 46	21 47	0 7	16 21	16 56	2 20	2 52	10 56		n.a.
W12	17 5	15 3	2 23	6 9	3 17	22 22	0 52	17 1	1 26	18 54	0 26	14 37	2 10	15 40	0 46	21 47	0 7	16 20	16 57	2 20	2 53	10 59		n.a.
T 13	17 21	9 40	1 23	6 38	3 12	22 37	0 55	16 51	1 24	18 58	0 26	14 36	2 10	15 40	0 46	21 47	0 7	16 20	16 57	2 19	2 55	11 3		n.a.
F 14	17 37	4 2	0 19	7 9	3 6	22 51	0 57	16 41	1 22	19 1	0 26	14 35	2 9	15 40	0 46	21 47	0 7	16 20	16 57	2 19	2 56	11 6		n.a.
S 15	17 53	1s41	0s44	7 42	3 0	23 5	0 59	16 31	1 21	19 4	0 26	14 33	2 9	15 39	0 46	21 47	0 7	16 20	16 58	2 19	2 57	11 9		n.a.
S 16	18 8	7 19	1 46	8 15	2 53	23 18	1 1	16 21	1 19	19 8	0 26	14 32	2 9	15 39	0 46	21 47	0 7	16 20	16 58	2 20	2 58	11 12		n.a.
M17	18 24	12 42	2 42	8 51	2 45	23 30	1 3	16 11	1 18	19 11	0 26	14 31	2 9	15 39	0 46	21 48	0 7	16 20	16 58	2 22	3 0	11 16		n.a.
T 18	18 38	17 40	3 32	9 27	2 37	23 42	1 5	16 0	1 16	19 14	0 26	14 30	2 9	15 38	0 46	21 48	0 7	16 20	16 58	2 25	3 1	11 19		n.a.
W19	18 53	21 59	4 13	10 5	2 29	23 53	1 7	15 50	1 15	19 18	0 26	14 29	2 9	15 38	0 46	21 48	0 7	16 20	16 59	2 28	3 2	11 22		n.a.
T 20	19 7	25 25	4 42	10 44	2 20	24 3	1 9	15 39	1 13	19 21	0 26	14 27	2 9	15 38	0 46	21 48	0 7	16 19	16 59	2 32	3 4	11 25		n.a.
F 21	19 21	27 44	4 59	11 24	2 10	24 13	1 11	15 28	1 12	19 24	0 26	14 26	2 9	15 37	0 46	21 48	0 7	16 19	16 59	2 37	3 5	11 29		n.a.
S 22	19 35	28 43	5 3	12 5	2 0	24 22	1 13	15 18	1 10	19 27	0 25	14 25	2 9	15 37	0 45	21 48	0 7	16 19	16 59	2 41	3 6	11 32		n.a.
S 23	19 48	28 14	4 51	12 46	1 50	24 30	1 15	15 7	1 9	19 31	0 25	14 24	2 9	15 37	0 45	21 48	0 7	16 19	17 0	2 45	3 7	11 35		n.a.
M24	20 1	26 14	4 26	13 29	1 39	24 38	1 16	14 55	1 7	19 34	0 25	14 23	2 9	15 36	0 45	21 48	0 7	16 19	17 0	2 48	3 9	11 38		n.a.
T 25	20 14	22 50	3 45	14 11	1 28	24 44	1 18	14 44	1 6	19 37	0 25	14 22	2 8	15 36	0 45	21 49	0 7	16 19	17 0	2 50	3 10	11 41		n.a.
W26	20 26	18 12	2 52	14 54	1 17	24 51	1 20	14 33	1 4	19 40	0 25	14 21	2 8	15 35	0 45	21 49	0 7	16 19	17 1	2 51	3 11	11 45		n.a.
T 27	20 38	12 34	1 49	15 38	1 6	24 56	1 21	14 21	1 3	19 43	0 25	14 19	2 8	15 35	0 45	21 49	0 7	16 19	17 1	2 51	3 12	11 48		n.a.
F 28	20 50	6 12	0 37	16 21	0 55	25 1	1 23	14 10	1 1	19 46	0 25	14 18	2 8	15 34	0 45	21 49	0 7	16 19	17 1	2 51	3 14	11 51		n.a.
S 29	21 1	0n37	0n38	17 4	0 43	25 4	1 25	13 58	1 0	19 50	0 25	14 17	2 8	15 34	0 45	21 49	0 7	16 19	17 2	2 51	3 15	11 54		n.a.
S 30	21 12	7 32	1 52	17 47	0 32	25 8	1 26	13 46	0 59	19 53	0 25	14 16	2 8	15 33	0 45	21 49	0 7	16 19	17 2	2 51	3 16	11 57		n.a.
M31	21n23	14n10	3n 0	18n29	0s20	25n10	1n27	13n35	0n57	19n56	0s25	14s15	2n 8	15n33	0n45	21s50	0s 7	16s19	17s 2	2s53	3s17	12s 1		n.a.

Julian Day Number = 1672234.5, Delta T = 03h19m56s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'33, Lahiri = - 5°48'32 Julian Calendar 1 May 135 BCE == Greg. Calendar 28 Apr. 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

JUNE 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 23 49	5♊57'52	14♉13	25♉19	0♋ 2	27♌26	29♉58	14°R 8	20♌29	23°R 4	28♓ 7	22°R43	21♓44	24♎13	n.a.	T 1
W 2	16 27 45	6°55'00	29° 9	27°22	1°15	27°57	0♊12	14♏ 4	20°31	23♑ 3	28° 7	22♓34	21°41	24°20	n.a.	W 2
T 3	16 31 42	7°52'09	13♊58	29°28	2°28	28°28	0°25	14° 0	20°32	23° 2	28° 8	22°24	21°38	24°26	n.a.	T 3
F 4	16 35 38	8°49'17	28°31	1♊35	3°41	29° 0	0°39	13°57	20°34	23° 1	28° 9	22°13	21°35	24°33	n.a.	F 4
S 5	16 39 35	9°46'25	12♋41	3°43	4°53	29°32	0°53	13°53	20°36	23° 0	28° 9	22° 3	21°32	24°40	n.a.	S 5
S 6	16 43 32	10°43'33	26°25	5°52	6° 6	0♍ 4	1° 6	13°49	20°38	22°59	28°10	21°55	21°29	24°46	n.a.	S 6
M 7	16 47 28	11°40'41	9♌41	8° 1	7°19	0°36	1°20	13°46	20°39	22°58	28°10	21°49	21°25	24°53	n.a.	M 7
T 8	16 51 25	12°37'49	22°31	10°11	8°32	1° 8	1°33	13°42	20°41	22°57	28°11	21°46	21°22	25° 0	n.a.	T 8
W 9	16 55 21	13°34'57	4♍59	12°21	9°44	1°40	1°47	13°38	20°43	22°56	28°11	21°45	21°19	25° 6	n.a.	W 9
T 10	16 59 18	14°32'05	17° 9	14°30	10°57	2°13	2° 0	13°35	20°45	22°55	28°12	21°44	21°16	25°13	n.a.	T 10
F 11	17 3 14	15°29'13	29° 6	16°39	12° 9	2°46	2°14	13°32	20°47	22°53	28°12	21°44	21°13	25°20	n.a.	F 11
S 12	17 7 11	16°26'21	10♎56	18°47	13°22	3°19	2°27	13°28	20°49	22°52	28°13	21°43	21°10	25°26	n.a.	S 12
S 13	17 11 7	17°23'29	22°45	20°55	14°35	3°52	2°41	13°25	20°51	22°51	28°13	21°40	21° 6	25°33	n.a.	S 13
M14	17 15 4	18°20'37	4♏36	23° 1	15°47	4°25	2°54	13°22	20°54	22°50	28°13	21°35	21° 3	25°40	n.a.	M14
T 15	17 19 1	19°17'46	16°33	25° 6	17° 0	4°59	3° 8	13°19	20°56	22°48	28°14	21°26	21° 0	25°46	n.a.	T 15
W16	17 22 57	20°14'54	28°40	27°10	18°12	5°32	3°21	13°15	20°58	22°47	28°14	21°16	20°57	25°53	n.a.	W16
T 17	17 26 54	21°12'04	10♐57	29°12	19°25	6° 6	3°34	13°12	21° 0	22°46	28°14	21° 4	20°54	26° 0	n.a.	T 17
F 18	17 30 50	22° 9'13	23°27	1♋12	20°37	6°40	3°48	13° 9	21° 3	22°44	28°15	20°50	20°50	26° 6	n.a.	F 18
S 19	17 34 47	23° 6'24	6♑ 9	3°11	21°49	7°14	4° 1	13° 7	21° 5	22°43	28°15	20°38	20°47	26°13	n.a.	S 19
S 20	17 38 43	24° 3'35	19° 3	5° 9	23° 2	7°48	4°14	13° 4	21° 8	22°42	28°15	20°26	20°44	26°20	n.a.	S 20
M21	17 42 40	25° 0'47	2♒ 9	7° 4	24°14	8°22	4°27	13° 1	21°10	22°40	28°16	20°18	20°41	26°26	n.a.	M21
T 22	17 46 37	25°57'59	15°26	8°58	25°26	8°57	4°41	12°58	21°12	22°39	28°16	20°12	20°38	26°33	n.a.	T 22
W23	17 50 33	26°55'12	28°54	10°50	26°39	9°32	4°54	12°56	21°15	22°37	28°16	20° 8	20°35	26°40	n.a.	W23
T 24	17 54 30	27°52'27	12♓34	12°41	27°51	10° 6	5° 7	12°53	21°18	22°36	28°16	20° 7	20°31	26°46	n.a.	T 24
F 25	17 58 26	28°49'42	26°25	14°29	29° 3	10°41	5°20	12°51	21°20	22°35	28°16	20° 7	20°28	26°53	n.a.	F 25
S 26	18 2 23	29°46'58	10♈29	16°16	0♌15	11°17	5°33	12°49	21°23	22°33	28°16	20° 7	20°25	27° 0	n.a.	S 26
S 27	18 6 19	0♋44'16	24°45	18° 2	1°27	11°52	5°46	12°46	21°26	22°32	28°17	20° 5	20°22	27° 7	n.a.	S 27
M28	18 10 16	1°41'34	9♉10	19°45	2°40	12°27	5°59	12°44	21°28	22°30	28°17	20° 1	20°19	27°13	n.a.	M28
T 29	18 14 12	2°38'54	23°42	21°27	3°52	13° 3	6°12	12°42	21°31	22°29	28°17	19°55	20°16	27°20	n.a.	T 29
W30	18 18 9	3♋36'15	8♊15	23♋ 7	5♌ 4	13♍38	6♊25	12♏40	21♌34	22♑27	28♓17	19♓46	20♓12	27♎27	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n33	20n 3	3n57	19n10	0s 9	25n12	1n29	13n23	0n56	19n59	0s24	14s14	2n 8	15n32	0n45	21s50	0s 7	16s19	17s 2	2s55	3s19	12s 4		n.a.
W 2	21 43	24 42	4 37	19 50	0n 3	25 13	1 30	13 10	0 55	20 2	0 24	14 13	2 7	15 32	0 45	21 50	0 7	16 19	17 3	2 59	3 20	12 7		n.a.
T 3	21 52	27 40	4 58	20 29	0 13	25 13	1 31	12 58	0 53	20 5	0 24	14 12	2 7	15 31	0 45	21 50	0 7	16 19	17 3	3 3	3 21	12 10		n.a.
F 4	22 1	28 42	5 0	21 6	0 24	25 12	1 33	12 46	0 52	20 8	0 24	14 11	2 7	15 31	0 45	21 50	0 7	16 19	17 3	3 7	3 23	12 13		n.a.
S 5	22 10	27 47	4 42	21 42	0 34	25 11	1 34	12 33	0 51	20 11	0 24	14 10	2 7	15 30	0 45	21 50	0 7	16 19	17 4	3 11	3 24	12 17		n.a.
S 6	22 19	25 11	4 9	22 15	0 44	25 9	1 35	12 21	0 49	20 13	0 24	14 9	2 7	15 29	0 45	21 51	0 7	16 19	17 4	3 15	3 25	12 20		n.a.
M 7	22 27	21 17	3 23	22 46	0 53	25 6	1 36	12 8	0 48	20 16	0 24	14 8	2 7	15 29	0 45	21 51	0 7	16 20	17 4	3 17	3 26	12 23		n.a.
T 8	22 34	16 30	2 28	23 15	1 2	25 2	1 37	11 55	0 47	20 19	0 24	14 7	2 6	15 28	0 45	21 51	0 7	16 20	17 5	3 18	3 28	12 26		n.a.
W 9	22 41	11 9	1 28	23 41	1 10	24 58	1 37	11 42	0 45	20 22	0 24	14 6	2 6	15 27	0 45	21 51	0 7	16 20	17 5	3 19	3 29	12 29		n.a.
T 10	22 48	5 30	0 24	24 5	1 17	24 53	1 38	11 29	0 44	20 25	0 24	14 6	2 6	15 27	0 45	21 52	0 7	16 20	17 5	3 19	3 30	12 32		n.a.
F 11	22 55	0s14	0s39	24 26	1 24	24 47	1 39	11 16	0 43	20 28	0 24	14 5	2 6	15 26	0 45	21 52	0 7	16 20	17 6	3 19	3 31	12 36		n.a.
S 12	23 1	5 54	1 40	24 44	1 30	24 41	1 39	11 3	0 42	20 30	0 23	14 4	2 6	15 25	0 45	21 52	0 7	16 20	17 6	3 19	3 33	12 39		n.a.
S 13	23 6	11 21	2 36	24 59	1 35	24 34	1 40	10 50	0 40	20 33	0 23	14 3	2 6	15 25	0 45	21 52	0 7	16 20	17 6	3 20	3 34	12 42		n.a.
M14	23 12	16 25	3 26	25 11	1 40	24 26	1 41	10 36	0 39	20 36	0 23	14 2	2 5	15 24	0 45	21 52	0 7	16 20	17 7	3 23	3 35	12 45		n.a.
T 15	23 17	20 55	4 7	25 21	1 43	24 17	1 41	10 23	0 38	20 39	0 23	14 1	2 5	15 23	0 45	21 53	0 7	16 21	17 7	3 26	3 36	12 48		n.a.
W16	23 21	24 36	4 37	25 28	1 47	24 8	1 41	10 9	0 37	20 41	0 23	14 1	2 5	15 22	0 45	21 53	0 7	16 21	17 7	3 30	3 38	12 51		n.a.
T 17	23 25	27 13	4 55	25 32	1 49	23 58	1 42	9 56	0 35	20 44	0 23	14 0	2 5	15 22	0 45	21 53	0 7	16 21	17 8	3 35	3 39	12 54		n.a.
F 18	23 29	28 32	5 0	25 33	1 51	23 47	1 42	9 42	0 34	20 47	0 23	13 59	2 5	15 21	0 45	21 53	0 7	16 21	17 8	3 40	3 40	12 58		n.a.
S 19	23 32	28 23	4 49	25 32	1 52	23 36	1 42	9 28	0 33	20 49	0 23	13 59	2 4	15 20	0 44	21 54	0 7	16 21	17 9	3 45	3 41	13 1		n.a.
S 20	23 35	26 42	4 24	25 29	1 52	23 24	1 42	9 14	0 32	20 52	0 23	13 58	2 4	15 19	0 44	21 54	0 7	16 22	17 9	3 50	3 43	13 4		n.a.
M21	23 37	23 33	3 44	25 23	1 52	23 11	1 42	9 0	0 31	20 54	0 23	13 57	2 4	15 18	0 44	21 54	0 7	16 22	17 9	3 53	3 44	13 7		n.a.
T 22	23 39	19 8	2 52	25 15	1 51	22 58	1 42	8 46	0 29	20 57	0 23	13 57	2 4	15 18	0 44	21 54	0 7	16 22	17 10	3 56	3 45	13 10		n.a.
W23	23 41	13 42	1 50	25 5	1 50	22 44	1 41	8 31	0 28	20 59	0 23	13 56	2 4	15 17	0 44	21 55	0 7	16 22	17 10	3 57	3 47	13 13		n.a.
T 24	23 42	7 32	0 40	24 53	1 48	22 29	1 41	8 17	0 27	21 2	0 22	13 56	2 3	15 16	0 44	21 55	0 7	16 22	17 10	3 57	3 48	13 16		n.a.
F 25	23 43	0 56	0n33	24 39	1 45	22 14	1 41	8 3	0 26	21 4	0 22	13 55	2 3	15 15	0 44	21 55	0 7	16 23	17 11	3 57	3 49	13 20		n.a.
S 26	23 43	5n49	1 46	24 24	1 42	21 58	1 40	7 48	0 25	21 7	0 22	13 55	2 3	15 14	0 44	21 55	0 7	16 23	17 11	3 58	3 50	13 23		n.a.
S 27	23 43	12 21	2 52	24 6	1 38	21 41	1 40	7 33	0 24	21 9	0 22	13 54	2 3	15 13	0 44	21 56	0 7	16 23	17 11	3 58	3 52	13 26		n.a.
M28	23 42	18 19	3 49	23 48	1 34	21 24	1 39	7 19	0 23	21 11	0 22	13 54	2 3	15 12	0 44	21 56	0 7	16 24	17 12	4 0	3 53	13 29		n.a.
T 29	23 41	23 16	4 31	23 27	1 30	21 6	1 39	7 4	0 22	21 14	0 22	13 53	2 2	15 11	0 44	21 56	0 7	16 24	17 12	4 2	3 54	13 32		n.a.
W30	23n40	26n47	4n55	23n 6	1n25	20n48	1n38	6n49	0n20	21n16	0s22	13s53	2n 2	15n10	0n44	21s56	0s 7	16s24	17s12	4s 6	3s55	13s35		n.a.

Julian Day Number = 1672265.5, Delta T = 03h19m55s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'29, Lahiri = - 5°48'28 Julian Calendar 1 June 135 BCE == Greg. Calendar 29 May 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

JULY 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 22 6	4♋33'37	22♊43	24♋45	6♌16	14♍14	6♊38	12°R38	21♌37	22°R26	28♓17	19°R35	20♓ 9	27♎33	n.a.	T 1
F 2	18 26 2	5°31'01	6♋59	26°22	7°28	14°50	6°50	12♏36	21°40	22♑24	28°R17	19♓24	20° 6	27°40	n.a.	F 2
S 3	18 29 59	6°28'25	20°56	27°57	8°40	15°26	7° 3	12°35	21°42	22°23	28°17	19°14	20° 3	27°47	n.a.	S 3
S 4	18 33 55	7°25'50	4♌32	29°30	9°52	16° 3	7°16	12°33	21°45	22°21	28°17	19° 5	20° 0	27°53	n.a.	S 4
M 5	18 37 52	8°23'16	17°44	1♌ 1	11° 4	16°39	7°28	12°32	21°48	22°19	28°17	18°59	19°56	28° 0	n.a.	M 5
T 6	18 41 48	9°20'43	0♍32	2°31	12°15	17°16	7°41	12°30	21°51	22°18	28°17	18°56	19°53	28° 7	n.a.	T 6
W 7	18 45 45	10°18'10	13° 0	3°59	13°27	17°52	7°54	12°29	21°54	22°16	28°17	18°54	19°50	28°13	n.a.	W 7
T 8	18 49 41	11°15'39	25°11	5°26	14°39	18°29	8° 6	12°27	21°57	22°15	28°16	18°D54	19°47	28°20	n.a.	T 8
F 9	18 53 38	12°13'08	7♎ 9	6°50	15°51	19° 6	8°18	12°26	22° 1	22°13	28°16	18°R55	19°44	28°27	n.a.	F 9
S 10	18 57 35	13°10'38	19° 1	8°13	17° 3	19°43	8°31	12°25	22° 4	22°11	28°16	18°55	19°41	28°33	n.a.	S 10
S 11	19 1 31	14° 8'10	0♏51	9°33	18°14	20°20	8°43	12°24	22° 7	22°10	28°16	18°53	19°37	28°40	n.a.	S 11
M12	19 5 28	15° 5'42	12°44	10°52	19°26	20°57	8°55	12°23	22°10	22° 8	28°16	18°49	19°34	28°47	n.a.	M12
T 13	19 9 24	16° 3'15	24°46	12° 9	20°37	21°35	9° 8	12°22	22°13	22° 7	28°16	18°44	19°31	28°53	n.a.	T 13
W14	19 13 21	17° 0'50	6♐59	13°24	21°49	22°12	9°20	12°22	22°16	22° 5	28°15	18°36	19°28	29° 0	n.a.	W14
T 15	19 17 17	17°58'26	19°26	14°37	23° 0	22°50	9°32	12°21	22°20	22° 3	28°15	18°26	19°25	29° 7	n.a.	T 15
F 16	19 21 14	18°56'03	2♑10	15°48	24°12	23°28	9°44	12°21	22°23	22° 2	28°15	18°15	19°22	29°13	n.a.	F 16
S 17	19 25 10	19°53'41	15° 9	16°57	25°23	24° 5	9°56	12°20	22°26	22° 0	28°14	18° 5	19°18	29°20	n.a.	S 17
S 18	19 29 7	20°51'21	28°24	18° 3	26°35	24°43	10° 8	12°20	22°30	21°58	28°14	17°57	19°15	29°27	n.a.	S 18
M19	19 33 4	21°49'02	11♒52	19° 7	27°46	25°21	10°19	12°20	22°33	21°57	28°14	17°50	19°12	29°33	n.a.	M19
T 20	19 37 0	22°46'45	25°32	20° 8	28°57	26° 0	10°31	12°19	22°36	21°55	28°13	17°45	19° 9	29°40	n.a.	T 20
W21	19 40 57	23°44'29	9♓21	21° 7	0♍ 8	26°38	10°43	12°D19	22°40	21°53	28°13	17°43	19° 6	29°47	n.a.	W21
T 22	19 44 53	24°42'15	23°17	22° 3	1°19	27°16	10°54	12°19	22°43	21°52	28°13	17°D43	19° 2	29°53	n.a.	T 22
F 23	19 48 50	25°40'03	7♈19	22°56	2°30	27°55	11° 6	12°20	22°47	21°50	28°12	17°44	18°59	0♏ 0	n.a.	F 23
S 24	19 52 46	26°37'53	21°26	23°46	3°41	28°34	11°17	12°20	22°50	21°49	28°12	17°R45	18°56	0° 7	n.a.	S 24
S 25	19 56 43	27°35'44	5♉36	24°33	4°52	29°12	11°29	12°20	22°54	21°47	28°11	17°45	18°53	0°13	n.a.	S 25
M26	20 0 39	28°33'38	19°47	25°16	6° 3	29°51	11°40	12°21	22°57	21°45	28°11	17°43	18°50	0°20	n.a.	M26
T 27	20 4 36	29°31'33	3♊59	25°55	7°14	0♎30	11°51	12°21	23° 1	21°44	28°10	17°39	18°47	0°27	n.a.	T 27
W28	20 8 33	0♌29'31	18° 7	26°31	8°25	1° 9	12° 2	12°22	23° 4	21°42	28°10	17°33	18°43	0°34	n.a.	W28
T 29	20 12 29	1°27'30	2♋ 8	27° 3	9°36	1°49	12°13	12°22	23° 8	21°40	28° 9	17°26	18°40	0°40	n.a.	T 29
F 30	20 16 26	2°25'32	15°58	27°30	10°47	2°28	12°24	12°23	23°11	21°39	28° 9	17°18	18°37	0°47	n.a.	F 30
S 31	20 20 22	3♌23'35	29♋33	27♌52	11♍57	3♎ 7	12♊35	12♏24	23♌15	21♑37	28♓ 8	17♓11	18♓34	0♏54	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23n38	28n31	5n 1	22n43	1n19	20n29	1n37	6n34	0n19	21n18	0s22	13s52	2n 2	15n 9	0n44	21s57	0s 7	16s24	17s13	4s10	3s57	13s38			n.a.
F 2	23 36	28 19	4 47	22 19	1 13	20 10	1 36	6 19	0 18	21 20	0 22	13 52	2 2	15 9	0 44	21 57	0 7	16 25	17 13	4 14	3 58	13 41			n.a.
S 3	23 33	26 18	4 17	21 54	1 7	19 50	1 35	6 4	0 17	21 23	0 22	13 52	2 1	15 8	0 44	21 57	0 7	16 25	17 13	4 19	3 59	13 44			n.a.
S 4	23 30	22 47	3 32	21 28	1 0	19 29	1 34	5 49	0 16	21 25	0 22	13 51	2 1	15 7	0 44	21 57	0 7	16 25	17 14	4 22	4 0	13 47			n.a.
M 5	23 27	18 11	2 38	21 2	0 53	19 8	1 33	5 34	0 15	21 27	0 22	13 51	2 1	15 6	0 44	21 58	0 7	16 26	17 14	4 24	4 2	13 51			n.a.
T 6	23 23	12 54	1 36	20 34	0 46	18 47	1 31	5 18	0 14	21 29	0 22	13 51	2 1	15 5	0 44	21 58	0 7	16 26	17 14	4 26	4 3	13 54			n.a.
W 7	23 19	7 14	0 31	20 6	0 38	18 25	1 30	5 3	0 13	21 31	0 21	13 51	2 1	15 4	0 44	21 58	0 7	16 26	17 15	4 26	4 4	13 57			n.a.
T 8	23 14	1 26	0s33	19 37	0 30	18 2	1 29	4 47	0 12	21 33	0 21	13 51	2 0	15 3	0 44	21 59	0 7	16 27	17 15	4 26	4 5	14 0			n.a.
F 9	23 9	4s20	1 36	19 8	0 22	17 39	1 27	4 32	0 11	21 36	0 21	13 51	2 0	15 1	0 44	21 59	0 7	16 27	17 16	4 26	4 7	14 3			n.a.
S 10	23 3	9 53	2 33	18 38	0 13	17 16	1 26	4 16	0 10	21 38	0 21	13 50	2 0	15 0	0 44	21 59	0 7	16 28	17 16	4 26	4 8	14 6			n.a.
S 11	22 57	15 5	3 24	18 8	0 5	16 52	1 24	4 0	0 9	21 40	0 21	13 50	2 0	14 59	0 44	21 59	0 7	16 28	17 16	4 27	4 9	14 9			n.a.
M12	22 51	19 44	4 6	17 38	0s 4	16 28	1 22	3 45	0 8	21 42	0 21	13 50	1 59	14 58	0 44	22 0	0 7	16 28	17 17	4 28	4 10	14 12			n.a.
T 13	22 44	23 40	4 38	17 8	0 14	16 3	1 20	3 29	0 7	21 44	0 21	13 50	1 59	14 57	0 44	22 0	0 7	16 29	17 17	4 31	4 12	14 15			n.a.
W14	22 37	26 37	4 58	16 37	0 23	15 38	1 18	3 13	0 6	21 45	0 21	13 50	1 59	14 56	0 44	22 0	0 8	16 29	17 17	4 34	4 13	14 18			n.a.
T 15	22 29	28 20	5 4	16 6	0 33	15 12	1 16	2 57	0 5	21 47	0 21	13 50	1 59	14 55	0 44	22 1	0 8	16 29	17 18	4 38	4 14	14 21			n.a.
F 16	22 22	28 37	4 55	15 36	0 43	14 47	1 14	2 41	0 4	21 49	0 21	13 50	1 58	14 54	0 44	22 1	0 8	16 30	17 18	4 42	4 16	14 24			n.a.
S 17	22 13	27 20	4 31	15 6	0 53	14 20	1 12	2 25	0 3	21 51	0 21	13 50	1 58	14 53	0 44	22 1	0 8	16 30	17 18	4 46	4 17	14 27			n.a.
S 18	22 4	24 30	3 52	14 36	1 3	13 54	1 10	2 9	0 2	21 53	0 21	13 51	1 58	14 52	0 44	22 1	0 8	16 31	17 19	4 49	4 18	14 30			n.a.
M19	21 55	20 18	3 0	14 6	1 14	13 27	1 8	1 53	0 1	21 55	0 21	13 51	1 58	14 51	0 44	22 2	0 8	16 31	17 19	4 52	4 19	14 33			n.a.
T 20	21 46	14 58	1 56	13 37	1 24	12 59	1 5	1 36	0s 0	21 56	0 21	13 51	1 57	14 49	0 44	22 2	0 8	16 32	17 19	4 54	4 21	14 36			n.a.
W21	21 36	8 51	0 45	13 8	1 35	12 32	1 3	1 20	0 1	21 58	0 20	13 51	1 57	14 48	0 44	22 2	0 8	16 32	17 19	4 54	4 22	14 39			n.a.
T 22	21 26	2 14	0n30	12 40	1 45	12 4	1 0	1 4	0 2	22 0	0 20	13 51	1 57	14 47	0 44	22 2	0 8	16 33	17 20	4 54	4 23	14 43			n.a.
F 23	21 15	4n31	1 43	12 12	1 56	11 36	0 58	0 48	0 3	22 2	0 20	13 52	1 57	14 46	0 44	22 3	0 8	16 33	17 20	4 54	4 24	14 46			n.a.
S 24	21 4	11 5	2 51	11 46	2 7	11 7	0 55	0 31	0 4	22 3	0 20	13 52	1 56	14 45	0 44	22 3	0 8	16 33	17 20	4 54	4 26	14 49			n.a.
S 25	20 53	17 7	3 49	11 20	2 17	10 39	0 52	0 15	0 5	22 5	0 20	13 52	1 56	14 44	0 44	22 3	0 8	16 34	17 21	4 54	4 27	14 52			n.a.
M26	20 41	22 15	4 32	10 56	2 28	10 10	0 50	0s 2	0 6	22 7	0 20	13 53	1 56	14 42	0 44	22 4	0 8	16 34	17 21	4 55	4 28	14 55			n.a.
T 27	20 29	26 5	4 59	10 32	2 38	9 40	0 47	0 18	0 7	22 8	0 20	13 53	1 56	14 41	0 44	22 4	0 8	16 35	17 21	4 56	4 29	14 58			n.a.
W28	20 17	28 17	5 8	10 11	2 49	9 11	0 44	0 35	0 8	22 10	0 20	13 54	1 55	14 40	0 44	22 4	0 8	16 35	17 22	4 58	4 31	15 1			n.a.
T 29	20 4	28 39	4 58	9 50	2 59	8 41	0 41	0 51	0 9	22 11	0 20	13 54	1 55	14 39	0 44	22 4	0 8	16 36	17 22	5 1	4 32	15 4			n.a.
F 30	19 51	27 13	4 30	9 32	3 9	8 11	0 38	1 8	0 9	22 13	0 20	13 54	1 55	14 38	0 44	22 5	0 8	16 36	17 22	5 4	4 33	15 7			n.a.
S 31	19n37	24n12	3n48	9n15	3s19	7n41	0n34	1s25	0s10	22n14	0s20	13s55	1n55	14n37	0n44	22s 5	0s 8	16s37	17s23	5s 7	4s34	15s10			n.a.

Julian Day Number = 1672295.5, Delta T = 03h19m54s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'24, Lahiri = - 5°48'24 Julian Calendar 1 July 135 BCE == Greg. Calendar 28 June 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

AUGUST 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 24 19	4♌21'39	12♌51	28♌10	13♍ 8	3♎47	12♊46	12♏25	23♌19	21°R36	28°R 8	17°R 6	18♓31	1♏ 0	n.a.	S 1
M 2	20 28 15	5°19'46	25°51	28°22	14°18	4°26	12°56	12°26	23°22	21♑34	28♓ 7	17♓ 2	18°28	1° 7	n.a.	M 2
T 3	20 32 12	6°17'54	8♍31	28°29	15°29	5° 6	13° 7	12°28	23°26	21°33	28° 6	17° 0	18°24	1°14	n.a.	T 3
W 4	20 36 8	7°16'04	20°55	28°R30	16°39	5°46	13°17	12°29	23°30	21°31	28° 6	16°D59	18°21	1°20	n.a.	W 4
T 5	20 40 5	8°14'15	3♎ 4	28°26	17°50	6°26	13°28	12°30	23°33	21°29	28° 5	17° 0	18°18	1°27	n.a.	T 5
F 6	20 44 2	9°12'28	15° 2	28°14	19° 0	7° 6	13°38	12°32	23°37	21°28	28° 4	17° 2	18°15	1°34	n.a.	F 6
S 7	20 47 58	10°10'42	26°54	27°57	20°10	7°46	13°48	12°33	23°41	21°26	28° 4	17° 4	18°12	1°40	n.a.	S 7
S 8	20 51 55	11° 8'59	8♏44	27°33	21°20	8°27	13°58	12°35	23°44	21°25	28° 3	17°R 4	18° 8	1°47	n.a.	S 8
M 9	20 55 51	12° 7'16	20°38	27° 3	22°30	9° 7	14° 8	12°37	23°48	21°23	28° 2	17° 4	18° 5	1°54	n.a.	M 9
T 10	20 59 48	13° 5'36	2♐41	26°26	23°40	9°47	14°18	12°39	23°52	21°22	28° 1	17° 2	18° 2	2° 0	n.a.	T 10
W11	21 3 44	14° 3'57	14°57	25°44	24°50	10°28	14°28	12°41	23°55	21°20	28° 1	16°59	17°59	2° 7	n.a.	W11
T 12	21 7 41	15° 2'20	27°29	24°56	26° 0	11° 9	14°38	12°43	23°59	21°19	28° 0	16°55	17°56	2°14	n.a.	T 12
F 13	21 11 37	16° 0'45	10♑20	24° 3	27°10	11°49	14°47	12°45	24° 3	21°17	27°59	16°50	17°53	2°20	n.a.	F 13
S 14	21 15 34	16°59'12	23°32	23° 6	28°19	12°30	14°57	12°47	24° 7	21°16	27°58	16°45	17°49	2°27	n.a.	S 14
S 15	21 19 31	17°57'40	7♒ 4	22° 5	29°29	13°11	15° 6	12°49	24°11	21°15	27°57	16°41	17°46	2°34	n.a.	S 15
M16	21 23 27	18°56'10	20°54	21° 3	0♎38	13°52	15°15	12°52	24°14	21°13	27°57	16°37	17°43	2°41	n.a.	M16
T 17	21 27 24	19°54'43	4♓59	20° 1	1°48	14°33	15°24	12°54	24°18	21°12	27°56	16°36	17°40	2°47	n.a.	T 17
W18	21 31 20	20°53'17	19°15	18°59	2°57	15°14	15°33	12°57	24°22	21°10	27°55	16°D35	17°37	2°54	n.a.	W18
T 19	21 35 17	21°51'53	3♈36	18° 0	4° 6	15°56	15°42	13° 0	24°26	21° 9	27°54	16°36	17°34	3° 1	n.a.	T 19
F 20	21 39 13	22°50'32	18° 0	17° 5	5°15	16°37	15°51	13° 2	24°29	21° 8	27°53	16°37	17°30	3° 7	n.a.	F 20
S 21	21 43 10	23°49'13	2♉21	16°15	6°25	17°19	16° 0	13° 5	24°33	21° 6	27°52	16°39	17°27	3°14	n.a.	S 21
S 22	21 47 6	24°47'57	16°37	15°32	7°33	18° 0	16° 8	13° 8	24°37	21° 5	27°51	16°40	17°24	3°21	n.a.	S 22
M23	21 51 3	25°46'43	0♊45	14°57	8°42	18°42	16°16	13°11	24°41	21° 4	27°50	16°R40	17°21	3°27	n.a.	M23
T 24	21 55 0	26°45'31	14°44	14°30	9°51	19°24	16°25	13°14	24°45	21° 2	27°49	16°39	17°18	3°34	n.a.	T 24
W25	21 58 56	27°44'22	28°32	14°13	11° 0	20° 5	16°33	13°17	24°48	21° 1	27°48	16°37	17°14	3°41	n.a.	W25
T 26	22 2 53	28°43'15	12♋ 9	14°D 5	12° 8	20°47	16°41	13°21	24°52	21° 0	27°47	16°35	17°11	3°47	n.a.	T 26
F 27	22 6 49	29°42'10	25°32	14° 8	13°17	21°29	16°49	13°24	24°56	20°59	27°46	16°32	17° 8	3°54	n.a.	F 27
S 28	22 10 46	0♍41'08	8♌42	14°20	14°25	22°12	16°56	13°28	25° 0	20°58	27°45	16°30	17° 5	4° 1	n.a.	S 28
S 29	22 14 42	1°40'08	21°38	14°43	15°33	22°54	17° 4	13°31	25° 3	20°56	27°44	16°28	17° 2	4° 7	n.a.	S 29
M30	22 18 39	2°39'10	4♍20	15°15	16°41	23°36	17°11	13°35	25° 7	20°55	27°43	16°27	16°59	4°14	n.a.	M30
T 31	22 22 35	3♍38'14	16♍47	15♌56	17♎49	24♎18	17♊19	13♏38	25♌11	20♑54	27♓42	16°D27	16♓55	4♏21	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	19n23	19n56	2n54	9n 0	3s28	7n11	0n31	1s41	0s11	22n16	0s20	13s56	1n54	14n35	0n44	22s 5	0s 8	16s37	17s23	5s 9	4s36	15s13			n.a.
M 2	19 9	14 48	1 52	8 47	3 37	6 40	0 28	1 58	0 12	22 17	0 20	13 56	1 54	14 34	0 44	22 5	0 8	16 38	17 23	5 11	4 37	15 16			n.a.
T 3	18 55	9 10	0 46	8 37	3 45	6 10	0 25	2 15	0 13	22 19	0 20	13 57	1 54	14 33	0 44	22 6	0 8	16 38	17 23	5 12	4 38	15 19			n.a.
W 4	18 40	3 19	0s21	8 30	3 52	5 39	0 21	2 32	0 14	22 20	0 20	13 57	1 54	14 32	0 44	22 6	0 8	16 39	17 24	5 12	4 39	15 22			n.a.
T 5	18 25	2s33	1 26	8 25	3 59	5 8	0 18	2 48	0 15	22 21	0 19	13 58	1 54	14 30	0 44	22 6	0 8	16 39	17 24	5 11	4 41	15 25			n.a.
F 6	18 9	8 14	2 27	8 23	4 5	4 37	0 14	3 5	0 16	22 23	0 19	13 59	1 53	14 29	0 44	22 6	0 8	16 40	17 24	5 11	4 42	15 28			n.a.
S 7	17 54	13 35	3 20	8 25	4 10	4 6	0 11	3 22	0 16	22 24	0 19	13 59	1 53	14 28	0 44	22 7	0 8	16 40	17 25	5 10	4 43	15 31			n.a.
S 8	17 38	18 26	4 5	8 30	4 14	3 35	0 7	3 39	0 17	22 25	0 19	14 0	1 53	14 27	0 43	22 7	0 8	16 41	17 25	5 10	4 44	15 33			n.a.
M 9	17 21	22 36	4 40	8 38	4 16	3 3	0 3	3 56	0 18	22 26	0 19	14 1	1 53	14 25	0 43	22 7	0 8	16 41	17 25	5 10	4 46	15 36			n.a.
T 10	17 5	25 52	5 2	8 49	4 17	2 32	0s 1	4 13	0 19	22 28	0 19	14 2	1 52	14 24	0 43	22 7	0 8	16 42	17 25	5 11	4 47	15 39			n.a.
W11	16 48	28 1	5 12	9 5	4 16	2 0	0 4	4 29	0 20	22 29	0 19	14 2	1 52	14 23	0 43	22 8	0 8	16 43	17 26	5 12	4 48	15 42			n.a.
T 12	16 31	28 48	5 7	9 23	4 13	1 29	0 8	4 46	0 21	22 30	0 19	14 3	1 52	14 22	0 43	22 8	0 8	16 43	17 26	5 14	4 49	15 45			n.a.
F 13	16 13	28 4	4 46	9 45	4 9	0 57	0 12	5 3	0 21	22 31	0 19	14 4	1 52	14 20	0 43	22 8	0 8	16 44	17 26	5 15	4 51	15 48			n.a.
S 14	15 55	25 45	4 11	10 10	4 2	0 26	0 16	5 20	0 22	22 32	0 19	14 5	1 51	14 19	0 43	22 8	0 8	16 44	17 26	5 17	4 52	15 51			n.a.
S 15	15 37	21 56	3 20	10 37	3 54	0s 6	0 20	5 37	0 23	22 34	0 19	14 6	1 51	14 18	0 43	22 9	0 8	16 45	17 26	5 19	4 53	15 54			n.a.
M16	15 19	16 50	2 16	11 7	3 43	0 37	0 24	5 54	0 24	22 35	0 19	14 7	1 51	14 17	0 43	22 9	0 8	16 45	17 27	5 20	4 54	15 57			n.a.
T 17	15 1	10 46	1 3	11 39	3 31	1 9	0 28	6 11	0 25	22 36	0 19	14 8	1 51	14 15	0 43	22 9	0 8	16 46	17 27	5 21	4 56	16 0			n.a.
W18	14 42	4 5	0n15	12 11	3 17	1 41	0 32	6 27	0 25	22 37	0 19	14 9	1 50	14 14	0 43	22 9	0 8	16 46	17 27	5 21	4 57	16 3			n.a.
T 19	14 23	2n51	1 32	12 44	3 1	2 12	0 36	6 44	0 26	22 38	0 19	14 10	1 50	14 13	0 43	22 10	0 8	16 47	17 27	5 21	4 58	16 6			n.a.
F 20	14 4	9 40	2 44	13 17	2 44	2 44	0 40	7 1	0 27	22 39	0 18	14 11	1 50	14 11	0 43	22 10	0 8	16 47	17 28	5 20	4 59	16 9			n.a.
S 21	13 44	15 57	3 46	13 50	2 26	3 15	0 45	7 18	0 28	22 40	0 18	14 12	1 50	14 10	0 43	22 10	0 8	16 48	17 28	5 20	5 1	16 12			n.a.
S 22	13 24	21 21	4 33	14 21	2 7	3 47	0 49	7 35	0 28	22 41	0 18	14 13	1 50	14 9	0 43	22 10	0 8	16 49	17 28	5 19	5 2	16 15			n.a.
M23	13 4	25 29	5 3	14 50	1 47	4 18	0 53	7 51	0 29	22 42	0 18	14 14	1 49	14 8	0 43	22 10	0 8	16 49	17 28	5 19	5 3	16 18			n.a.
T 24	12 44	28 3	5 15	15 16	1 28	4 49	0 57	8 8	0 30	22 43	0 18	14 16	1 49	14 6	0 43	22 11	0 8	16 50	17 28	5 20	5 4	16 20			n.a.
W25	12 24	28 51	5 8	15 40	1 8	5 20	1 1	8 25	0 31	22 43	0 18	14 17	1 49	14 5	0 43	22 11	0 8	16 50	17 29	5 20	5 6	16 23			n.a.
T 26	12 3	27 52	4 44	16 1	0 49	5 51	1 6	8 41	0 31	22 44	0 18	14 18	1 49	14 4	0 43	22 11	0 8	16 51	17 29	5 21	5 7	16 26			n.a.
F 27	11 42	25 18	4 5	16 18	0 30	6 22	1 10	8 58	0 32	22 45	0 18	14 19	1 48	14 3	0 43	22 11	0 8	16 51	17 29	5 22	5 8	16 29			n.a.
S 28	11 21	21 24	3 14	16 31	0 13	6 53	1 14	9 15	0 33	22 46	0 18	14 20	1 48	14 1	0 43	22 11	0 8	16 52	17 29	5 23	5 9	16 32			n.a.
S 29	11 0	16 33	2 13	16 40	0n 4	7 24	1 19	9 31	0 34	22 47	0 18	14 22	1 48	14 0	0 43	22 12	0 8	16 52	17 29	5 24	5 11	16 35			n.a.
M30	10 39	11 4	1 7	16 46	0 20	7 54	1 23	9 48	0 34	22 48	0 18	14 23	1 48	13 59	0 44	22 12	0 8	16 53	17 29	5 24	5 12	16 38			n.a.
T 31	10n17	5n15	0s 2	16n48	0n35	8s25	1s27	10s 4	0s35	22n48	0s18	14s24	1n48	13n57	0n44	22s12	0s 8	16s53	17s30	5s24	5s13	16s41			n.a.

Julian Day Number = 1672326.5, Delta T = 03h19m53s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'20, Lahiri = - 5°48'20 Julian Calendar 1 Aug. 135 BCE == Greg. Calendar 29 July 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

SEPTEMBER 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 26 32	4♍37'20	29♍ 2	16♌45	18♎57	25♎ 1	17♊26	13♏42	25♌15	20°R53	27°R41	16♓27	16♓52	4♏27	n.a.	W 1
T 2	22 30 29	5°36'28	11♎ 6	17°43	20° 5	25°44	17°33	13°46	25°18	20♑52	27♓40	16°28	16°49	4°34	n.a.	T 2
F 3	22 34 25	6°35'38	23° 2	18°47	21°12	26°26	17°40	13°50	25°22	20°51	27°39	16°29	16°46	4°41	n.a.	F 3
S 4	22 38 22	7°34'50	4♏53	19°59	22°20	27° 9	17°46	13°54	25°26	20°50	27°38	16°30	16°43	4°48	n.a.	S 4
S 5	22 42 18	8°34'04	16°43	21°16	23°27	27°52	17°53	13°58	25°30	20°49	27°37	16°31	16°39	4°54	n.a.	S 5
M 6	22 46 15	9°33'20	28°36	22°38	24°34	28°35	17°59	14° 2	25°33	20°48	27°36	16°31	16°36	5° 1	n.a.	M 6
T 7	22 50 11	10°32'38	10♐37	24° 4	25°41	29°18	18° 6	14° 7	25°37	20°47	27°35	16°R31	16°33	5° 8	n.a.	T 7
W 8	22 54 8	11°31'58	22°50	25°34	26°48	0♏ 1	18°12	14°11	25°41	20°46	27°34	16°31	16°30	5°14	n.a.	W 8
T 9	22 58 4	12°31'20	5♑21	27° 7	27°55	0°44	18°18	14°15	25°44	20°45	27°33	16°31	16°27	5°21	n.a.	T 9
F 10	23 2 1	13°30'43	18°12	28°43	29° 2	1°27	18°23	14°20	25°48	20°45	27°32	16°31	16°24	5°28	n.a.	F 10
S 11	23 5 57	14°30'09	1♒26	0♍21	0♏ 8	2°10	18°29	14°24	25°52	20°44	27°30	16°30	16°20	5°34	n.a.	S 11
S 12	23 9 54	15°29'36	15° 6	2° 1	1°14	2°54	18°34	14°29	25°55	20°43	27°29	16°30	16°17	5°41	n.a.	S 12
M13	23 13 51	16°29'05	29° 9	3°42	2°20	3°37	18°40	14°34	25°59	20°42	27°28	16°D30	16°14	5°48	n.a.	M13
T 14	23 17 47	17°28'37	13♓33	5°24	3°26	4°21	18°45	14°38	26° 3	20°42	27°27	16°R30	16°11	5°54	n.a.	T 14
W15	23 21 44	18°28'10	28°13	7° 7	4°32	5° 4	18°50	14°43	26° 6	20°41	27°26	16°30	16° 8	6° 1	n.a.	W15
T 16	23 25 40	19°27'45	13♈ 2	8°50	5°37	5°48	18°54	14°48	26°10	20°40	27°25	16°30	16° 5	6° 8	n.a.	T 16
F 17	23 29 37	20°27'23	27°52	10°34	6°43	6°32	18°59	14°53	26°13	20°40	27°24	16°30	16° 1	6°15	n.a.	F 17
S 18	23 33 33	21°27'03	12♉37	12°17	7°48	7°15	19° 3	14°58	26°17	20°39	27°23	16°29	15°58	6°21	n.a.	S 18
S 19	23 37 30	22°26'46	27°10	14° 1	8°52	7°59	19° 8	15° 3	26°20	20°38	27°21	16°29	15°55	6°28	n.a.	S 19
M20	23 41 26	23°26'31	11♊27	15°45	9°57	8°43	19°12	15° 8	26°24	20°38	27°20	16°28	15°52	6°35	n.a.	M20
T 21	23 45 23	24°26'18	25°26	17°28	11° 1	9°27	19°16	15°14	26°27	20°37	27°19	16°D28	15°49	6°41	n.a.	T 21
W22	23 49 20	25°26'08	9♋ 5	19°11	12° 6	10°11	19°19	15°19	26°31	20°37	27°18	16°28	15°45	6°48	n.a.	W22
T 23	23 53 16	26°26'00	22°26	20°54	13°10	10°55	19°23	15°24	26°34	20°36	27°17	16°29	15°42	6°55	n.a.	T 23
F 24	23 57 13	27°25'54	5♌30	22°36	14°13	11°40	19°26	15°30	26°37	20°36	27°16	16°30	15°39	7° 1	n.a.	F 24
S 25	0 1 9	28°25'51	18°18	24°18	15°17	12°24	19°29	15°35	26°41	20°36	27°15	16°31	15°36	7° 8	n.a.	S 25
S 26	0 5 6	29°25'50	0♍52	25°59	16°20	13° 8	19°32	15°41	26°44	20°35	27°13	16°32	15°33	7°15	n.a.	S 26
M27	0 9 2	0♎25'51	13°15	27°40	17°23	13°53	19°35	15°46	26°47	20°35	27°12	16°R32	15°30	7°21	n.a.	M27
T 28	0 12 59	1°25'54	25°28	29°20	18°26	14°37	19°38	15°52	26°51	20°35	27°11	16°32	15°26	7°28	n.a.	T 28
W29	0 16 55	2°25'58	7♎33	1♎ 0	19°28	15°22	19°40	15°57	26°54	20°34	27°10	16°31	15°23	7°35	n.a.	W29
T 30	0 20 52	3♎26'05	19♎30	2♎39	20♏30	16♏ 7	19♊42	16♏ 3	26♌57	20♑34	27♓ 9	16♓29	15♓20	7♏42	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n56	0s40	1s 9	16n45	0n48	8s55	1s32	10s21	0s36	22n49	0s18	14s26	1n47	13n56	0n44	22s12	0s 8	16s54	17s30	5s24	5s14	16s44		n.a.
T 2	9 34	6 28	2 12	16 39	1 0	9 25	1 36	10 37	0 36	22 50	0 18	14 27	1 47	13 55	0 44	22 12	0 8	16 55	17 30	5 24	5 16	16 46		n.a.
F 3	9 12	11 59	3 9	16 29	1 11	9 55	1 40	10 53	0 37	22 51	0 18	14 28	1 47	13 54	0 44	22 13	0 8	16 55	17 30	5 24	5 17	16 49		n.a.
S 4	8 49	17 1	3 57	16 16	1 20	10 24	1 45	11 10	0 38	22 51	0 17	14 30	1 47	13 52	0 44	22 13	0 8	16 56	17 30	5 23	5 18	16 52		n.a.
S 5	8 27	21 25	4 35	15 59	1 29	10 54	1 49	11 26	0 38	22 52	0 17	14 31	1 46	13 51	0 44	22 13	0 8	16 56	17 30	5 23	5 19	16 55		n.a.
M 6	8 5	24 59	5 2	15 38	1 36	11 23	1 54	11 42	0 39	22 53	0 17	14 33	1 46	13 50	0 44	22 13	0 8	16 57	17 30	5 23	5 21	16 58		n.a.
T 7	7 42	27 30	5 16	15 15	1 42	11 52	1 58	11 58	0 40	22 53	0 17	14 34	1 46	13 49	0 44	22 13	0 8	16 57	17 30	5 23	5 22	17 1		n.a.
W 8	7 19	28 46	5 15	14 49	1 47	12 21	2 2	12 14	0 40	22 54	0 17	14 36	1 46	13 47	0 44	22 13	0 8	16 58	17 30	5 23	5 23	17 4		n.a.
T 9	6 56	28 36	5 0	14 20	1 51	12 49	2 6	12 30	0 41	22 54	0 17	14 37	1 46	13 46	0 44	22 13	0 8	16 58	17 31	5 23	5 24	17 6		n.a.
F 10	6 33	26 55	4 30	13 49	1 53	13 17	2 11	12 46	0 42	22 55	0 17	14 39	1 45	13 45	0 44	22 14	0 8	16 59	17 31	5 23	5 26	17 9		n.a.
S 11	6 10	23 43	3 45	13 16	1 55	13 45	2 15	13 2	0 42	22 56	0 17	14 40	1 45	13 44	0 44	22 14	0 8	16 59	17 31	5 23	5 27	17 12		n.a.
S 12	5 47	19 8	2 46	12 41	1 56	14 12	2 19	13 17	0 43	22 56	0 17	14 42	1 45	13 42	0 44	22 14	0 8	17 0	17 31	5 23	5 28	17 15		n.a.
M13	5 24	13 23	1 35	12 4	1 57	14 40	2 23	13 33	0 44	22 57	0 17	14 43	1 45	13 41	0 44	22 14	0 8	17 0	17 31	5 23	5 29	17 18		n.a.
T 14	5 0	6 48	0 16	11 26	1 56	15 7	2 27	13 48	0 44	22 57	0 17	14 45	1 45	13 40	0 44	22 14	0 8	17 1	17 31	5 23	5 31	17 20		n.a.
W15	4 37	0n16	1n 5	10 46	1 55	15 33	2 32	14 4	0 45	22 58	0 17	14 47	1 44	13 39	0 44	22 14	0 8	17 1	17 31	5 23	5 32	17 23		n.a.
T 16	4 13	7 23	2 22	10 6	1 53	15 59	2 36	14 19	0 45	22 58	0 17	14 48	1 44	13 38	0 44	22 14	0 8	17 2	17 31	5 23	5 33	17 26		n.a.
F 17	3 49	14 6	3 30	9 24	1 51	16 25	2 40	14 34	0 46	22 59	0 17	14 50	1 44	13 36	0 44	22 14	0 8	17 2	17 31	5 23	5 34	17 29		n.a.
S 18	3 26	19 59	4 24	8 41	1 48	16 51	2 44	14 49	0 47	22 59	0 16	14 51	1 44	13 35	0 44	22 15	0 8	17 3	17 31	5 24	5 36	17 32		n.a.
S 19	3 2	24 36	4 59	7 58	1 45	17 16	2 48	15 4	0 47	22 59	0 16	14 53	1 44	13 34	0 44	22 15	0 8	17 3	17 31	5 24	5 37	17 35		n.a.
M20	2 38	27 38	5 16	7 14	1 41	17 40	2 51	15 19	0 48	23 0	0 16	14 55	1 44	13 33	0 44	22 15	0 8	17 4	17 31	5 24	5 38	17 37		n.a.
T 21	2 14	28 51	5 13	6 30	1 37	18 5	2 55	15 34	0 48	23 0	0 16	14 57	1 43	13 32	0 44	22 15	0 8	17 4	17 31	5 24	5 39	17 40		n.a.
W22	1 50	28 16	4 53	5 45	1 33	18 29	2 59	15 49	0 49	23 1	0 16	14 58	1 43	13 30	0 44	22 15	0 8	17 5	17 31	5 24	5 41	17 43		n.a.
T 23	1 26	26 3	4 17	5 0	1 28	18 52	3 3	16 3	0 49	23 1	0 16	15 0	1 43	13 29	0 44	22 15	0 8	17 5	17 31	5 24	5 42	17 46		n.a.
F 24	1 2	22 29	3 28	4 14	1 23	19 15	3 6	16 18	0 50	23 1	0 16	15 2	1 43	13 28	0 44	22 15	0 8	17 6	17 31	5 23	5 43	17 48		n.a.
S 25	0 38	17 54	2 30	3 29	1 18	19 38	3 10	16 32	0 51	23 2	0 16	15 3	1 43	13 27	0 44	22 15	0 8	17 6	17 31	5 23	5 44	17 51		n.a.
S 26	0 14	12 37	1 26	2 43	1 12	20 0	3 13	16 46	0 51	23 2	0 16	15 5	1 43	13 26	0 44	22 15	0 8	17 6	17 31	5 23	5 46	17 54		n.a.
M27	0s10	6 56	0 18	1 57	1 6	20 21	3 17	17 0	0 52	23 2	0 16	15 7	1 42	13 25	0 44	22 15	0 8	17 7	17 31	5 22	5 47	17 57		n.a.
T 28	0 35	1 4	0s49	1 11	1 1	20 43	3 20	17 14	0 52	23 3	0 16	15 9	1 42	13 24	0 44	22 15	0 8	17 7	17 31	5 22	5 48	17 59		n.a.
W29	0 59	4s46	1 54	0 26	0 55	21 3	3 23	17 28	0 53	23 3	0 16	15 11	1 42	13 22	0 44	22 15	0 8	17 8	17 31	5 23	5 49	18 2		n.a.
T 30	1s23	10s22	2s52	0s20	0n48	21s24	3s27	17s42	0s53	23n 3	0s16	15s12	1n42	13n21	0n44	22s15	0s 8	17s 8	17s31	5s24	5s51	18s 5		n.a.

Julian Day Number = 1672357.5, Delta T = 03h19m52s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'16, Lahiri = - 5°48'16 Julian Calendar 1 Sept. 135 BCE == Greg. Calendar 29 Aug. 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

OCTOBER 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 24 48	4♎26'14	1♏23	4♎18	21♏32	16♏51	19♊44	16♏ 9	27♌ 0	20°R34	27°R 8	16°R27	15♓17	7♏48	n.a.	F 1
S 2	0 28 45	5°26'25	13°13	5°56	22°33	17°36	19°46	16°15	27° 4	20♉34	27♓ 7	16♓23	15°14	7°55	n.a.	S 2
S 3	0 32 42	6°26'37	25° 3	7°34	23°34	18°21	19°48	16°21	27° 7	20°34	27° 5	16°20	15°11	8° 2	n.a.	S 3
M 4	0 36 38	7°26'51	6♐56	9°12	24°35	19° 6	19°49	16°27	27°10	20°34	27° 4	16°17	15° 7	8° 8	n.a.	M 4
T 5	0 40 35	8°27'07	18°55	10°48	25°35	19°51	19°51	16°33	27°13	20°34	27° 3	16°15	15° 4	8°15	n.a.	T 5
W 6	0 44 31	9°27'25	1♑ 5	12°25	26°35	20°36	19°52	16°39	27°16	20°D34	27° 2	16°13	15° 1	8°22	n.a.	W 6
T 7	0 48 28	10°27'44	13°30	14° 1	27°35	21°21	19°53	16°45	27°19	20°34	27° 1	16°D13	14°58	8°28	n.a.	T 7
F 8	0 52 24	11°28'04	26°15	15°37	28°34	22° 6	19°53	16°51	27°22	20°34	27° 0	16°14	14°55	8°35	n.a.	F 8
S 9	0 56 21	12°28'27	9♒23	17°12	29°33	22°52	19°54	16°57	27°25	20°34	26°59	16°15	14°51	8°42	n.a.	S 9
S 10	1 0 18	13°28'50	22°57	18°47	0♗31	23°37	19°54	17° 3	27°28	20°34	26°58	16°17	14°48	8°49	n.a.	S 10
M11	1 4 14	14°29'15	6♓59	20°21	1°29	24°22	19°R54	17°10	27°31	20°34	26°57	16°18	14°45	8°55	n.a.	M11
T 12	1 8 11	15°29'42	21°28	21°55	2°27	25° 8	19°54	17°16	27°34	20°34	26°55	16°R18	14°42	9° 2	n.a.	T 12
W13	1 12 7	16°30'10	6♈19	23°29	3°23	25°53	19°53	17°22	27°37	20°34	26°54	16°17	14°39	9° 9	n.a.	W13
T 14	1 16 4	17°30'40	21°26	25° 3	4°20	26°38	19°53	17°29	27°39	20°35	26°53	16°14	14°36	9°15	n.a.	T 14
F 15	1 20 0	18°31'11	6♉39	26°36	5°16	27°24	19°52	17°35	27°42	20°35	26°52	16°10	14°32	9°22	n.a.	F 15
S 16	1 23 57	19°31'45	21°48	28° 9	6°11	28°10	19°51	17°41	27°45	20°35	26°51	16° 5	14°29	9°29	n.a.	S 16
S 17	1 27 53	20°32'20	6♊44	29°42	7° 6	28°55	19°50	17°48	27°47	20°36	26°50	16° 0	14°26	9°35	n.a.	S 17
M18	1 31 50	21°32'57	21°18	1♏14	8° 0	29°41	19°49	17°54	27°50	20°36	26°49	15°56	14°23	9°42	n.a.	M18
T 19	1 35 46	22°33'36	5♋28	2°46	8°53	0♗27	19°47	18° 1	27°53	20°36	26°48	15°53	14°20	9°49	n.a.	T 19
W20	1 39 43	23°34'17	19°10	4°18	9°46	1°13	19°45	18° 8	27°55	20°37	26°47	15°D52	14°17	9°55	n.a.	W20
T 21	1 43 40	24°34'59	2♌27	5°50	10°38	1°59	19°44	18°14	27°58	20°37	26°46	15°52	14°13	10° 2	n.a.	T 21
F 22	1 47 36	25°35'44	15°22	7°21	11°30	2°44	19°41	18°21	28° 0	20°38	26°45	15°53	14°10	10° 9	n.a.	F 22
S 23	1 51 33	26°36'29	27°57	8°52	12°21	3°30	19°39	18°27	28° 2	20°39	26°44	15°55	14° 7	10°16	n.a.	S 23
S 24	1 55 29	27°37'17	10♍17	10°23	13°11	4°16	19°36	18°34	28° 5	20°39	26°43	15°R56	14° 4	10°22	n.a.	S 24
M25	1 59 26	28°38'06	22°26	11°54	14° 0	5° 3	19°34	18°41	28° 7	20°40	26°42	15°56	14° 1	10°29	n.a.	M25
T 26	2 3 22	29°38'57	4♎27	13°24	14°48	5°49	19°31	18°48	28° 9	20°40	26°41	15°54	13°57	10°36	n.a.	T 26
W27	2 7 19	0♏39'49	16°23	14°54	15°36	6°35	19°28	18°54	28°12	20°41	26°40	15°50	13°54	10°42	n.a.	W27
T 28	2 11 15	1°40'43	28°15	16°24	16°23	7°21	19°24	19° 1	28°14	20°42	26°39	15°43	13°51	10°49	n.a.	T 28
F 29	2 15 12	2°41'37	10♏ 5	17°53	17° 8	8° 7	19°21	19° 8	28°16	20°43	26°38	15°35	13°48	10°56	n.a.	F 29
S 30	2 19 9	3°42'34	21°56	19°22	17°53	8°54	19°17	19°15	28°18	20°43	26°38	15°25	13°45	11° 2	n.a.	S 30
S 31	2 23 5	4♏43'31	3♐49	20♏50	18♐37	9♐40	19♊13	19♏22	28♌20	20♉44	26♓37	15♓15	13♓42	11♏ 9	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s47	15s34	3s43	1s 5	0n42	21s43	3s30	17s55	0s54	23n 3	0s15	15s14	1n42	13n20	0n44	22s15	0s 8	17s 9	17s31	5s25	5s52	18s 8		n.a.
S 2	2 11	20 10	4 24	1 50	0 36	22 3	3 33	18 9	0 54	23 4	0 15	15 16	1 42	13 19	0 44	22 15	0 8	17 9	17 31	5 26	5 53	18 10		n.a.
S 3	2 35	23 59	4 53	2 35	0 29	22 21	3 36	18 22	0 55	23 4	0 15	15 18	1 41	13 18	0 44	22 15	0 8	17 9	17 31	5 27	5 54	18 13		n.a.
M 4	2 59	26 49	5 10	3 20	0 23	22 39	3 38	18 35	0 55	23 4	0 15	15 20	1 41	13 17	0 44	22 15	0 8	17 10	17 31	5 28	5 56	18 16		n.a.
T 5	3 23	28 28	5 14	4 4	0 16	22 57	3 41	18 48	0 56	23 4	0 15	15 22	1 41	13 16	0 44	22 15	0 8	17 10	17 31	5 29	5 57	18 19		n.a.
W 6	3 47	28 47	5 4	4 49	0 10	23 14	3 44	19 0	0 56	23 4	0 15	15 23	1 41	13 15	0 44	22 15	0 8	17 11	17 31	5 30	5 58	18 21		n.a.
T 7	4 11	27 39	4 40	5 32	0 3	23 31	3 46	19 13	0 57	23 4	0 15	15 25	1 41	13 14	0 44	22 15	0 8	17 11	17 30	5 30	5 59	18 24		n.a.
F 8	4 35	25 5	4 1	6 16	0s 3	23 47	3 48	19 25	0 57	23 5	0 15	15 27	1 41	13 13	0 44	22 15	0 8	17 11	17 30	5 30	6 1	18 27		n.a.
S 9	4 59	21 9	3 9	6 59	0 10	24 2	3 51	19 37	0 57	23 5	0 15	15 29	1 41	13 12	0 44	22 15	0 8	17 12	17 30	5 29	6 2	18 29		n.a.
S 10	5 23	15 59	2 5	7 42	0 17	24 17	3 53	19 49	0 58	23 5	0 15	15 31	1 40	13 11	0 44	22 15	0 8	17 12	17 30	5 28	6 3	18 32		n.a.
M11	5 46	9 50	0 51	8 24	0 23	24 31	3 55	20 1	0 58	23 5	0 15	15 33	1 40	13 10	0 44	22 15	0 8	17 12	17 30	5 28	6 4	18 35		n.a.
T 12	6 10	3 0	0n28	9 6	0 30	24 45	3 56	20 13	0 59	23 5	0 15	15 35	1 40	13 9	0 44	22 15	0 8	17 13	17 30	5 28	6 6	18 38		n.a.
W13	6 34	4n11	1 47	9 47	0 36	24 58	3 58	20 24	0 59	23 5	0 14	15 37	1 40	13 8	0 44	22 15	0 8	17 13	17 30	5 28	6 7	18 40		n.a.
T 14	6 57	11 14	3 0	10 28	0 43	25 10	3 59	20 36	1 0	23 5	0 14	15 39	1 40	13 7	0 44	22 15	0 8	17 13	17 30	5 29	6 8	18 43		n.a.
F 15	7 20	17 40	4 1	11 8	0 49	25 22	4 1	20 47	1 0	23 5	0 14	15 41	1 40	13 6	0 44	22 15	0 8	17 13	17 29	5 31	6 9	18 46		n.a.
S 16	7 44	22 59	4 44	11 48	0 55	25 33	4 2	20 57	1 0	23 5	0 14	15 43	1 40	13 5	0 44	22 15	0 8	17 14	17 29	5 33	6 10	18 48		n.a.
S 17	8 7	26 44	5 7	12 27	1 1	25 44	4 3	21 8	1 1	23 5	0 14	15 44	1 40	13 4	0 45	22 15	0 8	17 14	17 29	5 35	6 12	18 51		n.a.
M18	8 30	28 35	5 10	13 5	1 7	25 54	4 4	21 18	1 1	23 5	0 14	15 46	1 39	13 4	0 45	22 15	0 8	17 14	17 29	5 37	6 13	18 54		n.a.
T 19	8 53	28 29	4 54	13 43	1 13	26 4	4 5	21 29	1 1	23 5	0 14	15 48	1 39	13 3	0 45	22 15	0 8	17 15	17 29	5 38	6 14	18 56		n.a.
W20	9 15	26 37	4 21	14 20	1 19	26 12	4 5	21 39	1 2	23 5	0 14	15 50	1 39	13 2	0 45	22 15	0 8	17 15	17 29	5 38	6 15	18 59		n.a.
T 21	9 38	23 19	3 34	14 57	1 25	26 21	4 5	21 49	1 2	23 5	0 14	15 52	1 39	13 1	0 45	22 15	0 8	17 15	17 28	5 38	6 17	19 2		n.a.
F 22	10 0	18 56	2 38	15 32	1 30	26 28	4 5	21 58	1 3	23 5	0 14	15 54	1 39	13 0	0 45	22 15	0 8	17 15	17 28	5 38	6 18	19 4		n.a.
S 23	10 23	13 49	1 36	16 7	1 35	26 35	4 5	22 7	1 3	23 5	0 13	15 56	1 39	12 59	0 45	22 15	0 8	17 16	17 28	5 37	6 19	19 7		n.a.
S 24	10 45	8 16	0 31	16 42	1 41	26 42	4 5	22 17	1 3	23 5	0 13	15 58	1 39	12 59	0 45	22 15	0 8	17 16	17 28	5 37	6 20	19 9		n.a.
M25	11 7	2 30	0s35	17 15	1 46	26 47	4 5	22 25	1 4	23 5	0 13	16 0	1 39	12 58	0 45	22 15	0 8	17 16	17 28	5 37	6 22	19 12		n.a.
T 26	11 29	3s18	1 39	17 48	1 50	26 52	4 4	22 34	1 4	23 5	0 13	16 2	1 39	12 57	0 45	22 15	0 8	17 16	17 27	5 37	6 23	19 15		n.a.
W27	11 50	8 55	2 37	18 19	1 55	26 57	4 3	22 43	1 4	23 4	0 13	16 4	1 38	12 56	0 45	22 14	0 9	17 16	17 27	5 39	6 24	19 17		n.a.
T 28	12 12	14 12	3 28	18 50	1 59	27 1	4 2	22 51	1 4	23 4	0 13	16 6	1 38	12 56	0 45	22 14	0 9	17 16	17 27	5 42	6 25	19 20		n.a.
F 29	12 33	18 57	4 10	19 19	2 3	27 4	4 0	22 59	1 5	23 4	0 13	16 8	1 38	12 55	0 45	22 14	0 9	17 17	17 27	5 45	6 27	19 23		n.a.
S 30	12 54	22 59	4 41	19 48	2 7	27 7	3 59	23 6	1 5	23 4	0 13	16 10	1 38	12 54	0 45	22 14	0 9	17 17	17 27	5 49	6 28	19 25		n.a.
S 31	13s15	26s 4	5s 0	20s15	2s10	27s 9	3s57	23s14	1s 5	23n 4	0s13	16s12	1n38	12n53	0n45	22s14	0s 9	17s17	17s26	5s53	6s29	19s28		n.a.

Julian Day Number = 1672387.5, Delta T = 03h19m51s
Ecliptic obliquity = 23°42'51, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'12, Lahiri = - 5°48'11 Julian Calendar 1 Oct. 135 BCE == Greg. Calendar 28 Sept. 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

NOVEMBER 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 27 2	5♏44'29	15♐45	22♏18	19♐20	10♐26	19°R 9	19♏29	28♑22	20♑45	26°R36	15°R 5	13♓38	11♏16	n.a.	M 1
T 2	2 30 58	6°45'29	27°46	23°46	20° 2	11°13	19♊ 5	19°36	28°24	20°46	26♓35	14♓57	13°35	11°23	n.a.	T 2
W 3	2 34 55	7°46'29	9♑57	25°12	20°42	11°59	19° 1	19°43	28°26	20°47	26°34	14°51	13°32	11°29	n.a.	W 3
T 4	2 38 51	8°47'30	22°20	26°38	21°21	12°46	18°56	19°49	28°28	20°48	26°33	14°47	13°29	11°36	n.a.	T 4
F 5	2 42 48	9°48'32	4♒58	28° 3	22° 0	13°32	18°51	19°56	28°30	20°49	26°33	14°D45	13°26	11°43	n.a.	F 5
S 6	2 46 45	10°49'34	17°57	29°27	22°36	14°19	18°46	20° 3	28°31	20°50	26°32	14°45	13°22	11°49	n.a.	S 6
S 7	2 50 41	11°50'38	1♓20	0♐49	23°12	15° 5	18°41	20°10	28°33	20°51	26°31	14°46	13°19	11°56	n.a.	S 7
M 8	2 54 38	12°51'41	15°11	2°10	23°46	15°52	18°36	20°17	28°35	20°52	26°30	14°R47	13°16	12° 3	n.a.	M 8
T 9	2 58 34	13°52'46	29°29	3°29	24°18	16°39	18°31	20°24	28°36	20°53	26°29	14°46	13°13	12°10	n.a.	T 9
W10	3 2 31	14°53'51	14♈14	4°46	24°50	17°26	18°25	20°31	28°38	20°54	26°29	14°43	13°10	12°16	n.a.	W10
T 11	3 6 27	15°54'56	29°20	6° 1	25°19	18°12	18°19	20°38	28°39	20°56	26°28	14°37	13° 7	12°23	n.a.	T 11
F 12	3 10 24	16°56'03	14♉39	7°13	25°47	18°59	18°13	20°45	28°41	20°57	26°27	14°29	13° 3	12°30	n.a.	F 12
S 13	3 14 20	17°57'10	29°59	8°22	26°13	19°46	18° 7	20°52	28°42	20°58	26°27	14°19	13° 0	12°36	n.a.	S 13
S 14	3 18 17	18°58'18	15♊11	9°28	26°37	20°33	18° 1	20°59	28°44	20°59	26°26	14° 9	12°57	12°43	n.a.	S 14
M15	3 22 14	19°59'27	0♋ 2	10°29	27° 0	21°20	17°55	21° 6	28°45	21° 1	26°25	13°59	12°54	12°50	n.a.	M15
T 16	3 26 10	21° 0'37	14°26	11°25	27°20	22° 6	17°48	21°13	28°46	21° 2	26°25	13°52	12°51	12°56	n.a.	T 16
W17	3 30 7	22° 1'48	28°19	12°16	27°39	22°53	17°42	21°21	28°47	21° 3	26°24	13°47	12°48	13° 3	n.a.	W17
T 18	3 34 3	23° 2'59	11♌43	13° 0	27°56	23°40	17°35	21°28	28°48	21° 5	26°24	13°45	12°44	13°10	n.a.	T 18
F 19	3 38 0	24° 4'11	24°39	13°37	28°10	24°27	17°28	21°35	28°49	21° 6	26°23	13°D44	12°41	13°17	n.a.	F 19
S 20	3 41 56	25° 5'24	7♍12	14° 6	28°23	25°14	17°21	21°42	28°50	21° 7	26°23	13°R45	12°38	13°23	n.a.	S 20
S 21	3 45 53	26° 6'38	19°28	14°26	28°33	26° 1	17°14	21°49	28°51	21° 9	26°22	13°45	12°35	13°30	n.a.	S 21
M22	3 49 49	27° 7'52	1♎30	14°R37	28°41	26°48	17° 7	21°56	28°52	21°10	26°22	13°43	12°32	13°37	n.a.	M22
T 23	3 53 46	28° 9'07	13°25	14°36	28°46	27°35	17° 0	22° 3	28°53	21°12	26°21	13°39	12°28	13°43	n.a.	T 23
W24	3 57 43	29°10'22	25°15	14°25	28°50	28°23	16°52	22°10	28°54	21°13	26°21	13°32	12°25	13°50	n.a.	W24
T 25	4 1 39	0♐11'38	7♏ 4	14° 2	28°R50	29°10	16°45	22°17	28°55	21°15	26°20	13°22	12°22	13°57	n.a.	T 25
F 26	4 5 36	1°12'54	18°55	13°27	28°49	29°57	16°37	22°24	28°55	21°17	26°20	13°10	12°19	14° 4	n.a.	F 26
S 27	4 9 32	2°14'10	0♐49	12°40	28°45	0♑44	16°30	22°31	28°56	21°18	26°19	12°56	12°16	14°10	n.a.	S 27
S 28	4 13 29	3°15'27	12°48	11°43	28°38	1°31	16°22	22°38	28°57	21°20	26°19	12°41	12°13	14°17	n.a.	S 28
M29	4 17 25	4°16'44	24°52	10°37	28°29	2°18	16°14	22°45	28°57	21°22	26°19	12°26	12° 9	14°24	n.a.	M29
T 30	4 21 22	5♐18'01	7♑ 2	9♐23	28♐18	3♑ 6	16♊ 6	22♏51	28♑57	21♑23	26♓18	12♓13	12♓ 6	14♏30	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s35	28s 1	5s 6	20s42	2s13	27s10	3s54	23s21	1s 6	23n 3	0s12	16s14	1n38	12n53	0n45	22s14	0s 9	17s17	17s26	5s56	6s30	19s30		n.a.
T 2	13 56	28 40	4 58	21 7	2 16	27 11	3 52	23 28	1 6	23 3	0 12	16 16	1 38	12 52	0 45	22 14	0 9	17 17	17 26	6 0	6 32	19 33		n.a.
W 3	14 16	27 57	4 37	21 31	2 18	27 12	3 49	23 35	1 6	23 3	0 12	16 18	1 38	12 51	0 45	22 14	0 9	17 17	17 26	6 2	6 33	19 36		n.a.
T 4	14 36	25 50	4 3	21 53	2 20	27 11	3 46	23 41	1 6	23 3	0 12	16 20	1 38	12 51	0 45	22 13	0 9	17 17	17 25	6 4	6 34	19 38		n.a.
F 5	14 55	22 25	3 16	22 15	2 21	27 10	3 43	23 47	1 7	23 2	0 12	16 22	1 38	12 50	0 45	22 13	0 9	17 17	17 25	6 4	6 35	19 41		n.a.
S 6	15 15	17 49	2 19	22 34	2 22	27 9	3 39	23 53	1 7	23 2	0 12	16 24	1 38	12 50	0 45	22 13	0 9	17 18	17 25	6 4	6 36	19 43		n.a.
S 7	15 34	12 14	1 11	22 53	2 22	27 7	3 35	23 59	1 7	23 2	0 12	16 26	1 37	12 49	0 45	22 13	0 9	17 18	17 25	6 4	6 38	19 46		n.a.
M 8	15 53	5 52	0n 2	23 9	2 22	27 4	3 31	24 4	1 7	23 1	0 12	16 27	1 37	12 49	0 45	22 13	0 9	17 18	17 24	6 4	6 39	19 48		n.a.
T 9	16 11	0n59	1 18	23 24	2 21	27 1	3 26	24 9	1 7	23 1	0 12	16 29	1 37	12 48	0 45	22 13	0 9	17 18	17 24	6 4	6 40	19 51		n.a.
W10	16 29	7 59	2 30	23 38	2 20	26 58	3 21	24 14	1 8	23 1	0 11	16 31	1 37	12 48	0 45	22 13	0 9	17 18	17 24	6 5	6 41	19 54		n.a.
T 11	16 47	14 42	3 34	23 49	2 18	26 53	3 16	24 19	1 8	23 0	0 11	16 33	1 37	12 47	0 45	22 12	0 9	17 18	17 23	6 8	6 43	19 56		n.a.
F 12	17 5	20 36	4 23	23 59	2 15	26 48	3 10	24 23	1 8	23 0	0 11	16 35	1 37	12 47	0 46	22 12	0 9	17 18	17 23	6 11	6 44	19 59		n.a.
S 13	17 23	25 10	4 54	24 6	2 11	26 43	3 4	24 27	1 8	23 0	0 11	16 37	1 37	12 46	0 46	22 12	0 9	17 18	17 23	6 15	6 45	20 1		n.a.
S 14	17 40	27 54	5 3	24 12	2 6	26 37	2 57	24 31	1 8	22 59	0 11	16 39	1 37	12 46	0 46	22 12	0 9	17 18	17 23	6 18	6 46	20 4		n.a.
M15	17 56	28 34	4 51	24 15	2 0	26 31	2 50	24 34	1 9	22 59	0 11	16 41	1 37	12 45	0 46	22 12	0 9	17 18	17 22	6 22	6 48	20 6		n.a.
T 16	18 13	27 15	4 21	24 17	1 53	26 24	2 43	24 37	1 9	22 58	0 11	16 43	1 37	12 45	0 46	22 11	0 9	17 18	17 22	6 25	6 49	20 9		n.a.
W17	18 29	24 16	3 37	24 16	1 45	26 17	2 35	24 40	1 9	22 58	0 11	16 45	1 37	12 45	0 46	22 11	0 9	17 18	17 22	6 27	6 50	20 11		n.a.
T 18	18 45	20 3	2 42	24 12	1 36	26 9	2 27	24 43	1 9	22 57	0 10	16 47	1 37	12 44	0 46	22 11	0 9	17 18	17 21	6 28	6 51	20 14		n.a.
F 19	19 0	15 1	1 40	24 7	1 25	26 0	2 18	24 45	1 9	22 57	0 10	16 49	1 37	12 44	0 46	22 11	0 9	17 17	17 21	6 28	6 52	20 16		n.a.
S 20	19 15	9 30	0 35	23 58	1 14	25 51	2 9	24 47	1 9	22 56	0 10	16 50	1 37	12 44	0 46	22 11	0 9	17 17	17 21	6 28	6 54	20 19		n.a.
S 21	19 30	3 45	0s30	23 48	1 0	25 42	2 0	24 49	1 9	22 56	0 10	16 52	1 37	12 43	0 46	22 10	0 9	17 17	17 20	6 28	6 55	20 21		n.a.
M22	19 45	2s 1	1 33	23 35	0 46	25 32	1 50	24 50	1 10	22 55	0 10	16 54	1 37	12 43	0 46	22 10	0 9	17 17	17 20	6 28	6 56	20 24		n.a.
T 23	19 59	7 39	2 30	23 19	0 30	25 22	1 39	24 51	1 10	22 55	0 10	16 56	1 37	12 43	0 46	22 10	0 9	17 17	17 20	6 30	6 57	20 26		n.a.
W24	20 12	12 59	3 21	23 0	0 13	25 11	1 28	24 52	1 10	22 54	0 10	16 58	1 37	12 43	0 46	22 10	0 9	17 17	17 19	6 33	6 59	20 29		n.a.
T 25	20 25	17 50	4 2	22 39	0n 5	25 0	1 17	24 52	1 10	22 53	0 9	17 0	1 37	12 42	0 46	22 9	0 9	17 17	17 19	6 36	7 0	20 31		n.a.
F 26	20 38	22 1	4 34	22 16	0 25	24 48	1 5	24 53	1 10	22 53	0 9	17 1	1 37	12 42	0 46	22 9	0 9	17 17	17 19	6 41	7 1	20 34		n.a.
S 27	20 51	25 20	4 53	21 50	0 44	24 35	0 53	24 53	1 10	22 52	0 9	17 3	1 36	12 42	0 46	22 9	0 9	17 17	17 18	6 47	7 2	20 36		n.a.
S 28	21 3	27 32	4 59	21 23	1 5	24 23	0 40	24 52	1 10	22 51	0 9	17 5	1 36	12 42	0 46	22 9	0 9	17 16	17 18	6 53	7 3	20 38		n.a.
M29	21 15	28 29	4 53	20 54	1 25	24 10	0 27	24 52	1 10	22 51	0 9	17 7	1 36	12 42	0 46	22 8	0 9	17 16	17 18	6 58	7 5	20 41		n.a.
T 30	21s26	28s 3	4s32	20s24	1n44	23s56	0s14	24s51	1s10	22n50	0s 9	17s 9	1n36	12n42	0n46	22s 8	0s 9	17s16	17s17	7s 3	7s 6	20s43		n.a.

Julian Day Number = 1672418.5, Delta T = 03h19m50s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'08, Lahiri = - 5°48'07 Julian Calendar 1 Nov. 135 BCE == Greg. Calendar 29 Oct. 135 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 135 BCE
geocentric

DECEMBER 135 BCE (-134) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 25 18	6♐19'17	19♑21	8°R 4	28°R 3	3♑53	15°R59	22♏58	28♌58	21♑25	26°R18	12°R 3	12♓ 3	14♏37	n.a.	W 1
T 2	4 29 15	7°20'34	1♒49	6♐43	27♐47	4°40	15♊51	23° 5	28°58	21°27	26♓18	11♓56	12° 0	14°44	n.a.	T 2
F 3	4 33 12	8°21'50	14°31	5°22	27°28	5°27	15°43	23°12	28°58	21°29	26°18	11°52	11°57	14°50	n.a.	F 3
S 4	4 37 8	9°23'06	27°28	4° 4	27° 7	6°14	15°35	23°19	28°59	21°30	26°17	11°50	11°54	14°57	n.a.	S 4
S 5	4 41 5	10°24'21	10♓44	2°50	26°43	7° 2	15°27	23°26	28°59	21°32	26°17	11°50	11°50	15° 4	n.a.	S 5
M 6	4 45 1	11°25'36	24°22	1°44	26°17	7°49	15°19	23°33	28°59	21°34	26°17	11°50	11°47	15°11	n.a.	M 6
T 7	4 48 58	12°26'51	8♈25	0°47	25°49	8°36	15°10	23°39	28°R59	21°36	26°17	11°48	11°44	15°17	n.a.	T 7
W 8	4 52 54	13°28'04	22°52	29♏59	25°20	9°24	15° 2	23°46	28°59	21°38	26°17	11°45	11°41	15°24	n.a.	W 8
T 9	4 56 51	14°29'18	7♉41	29°20	24°48	10°11	14°54	23°53	28°59	21°40	26°17	11°38	11°38	15°31	n.a.	T 9
F 10	5 0 48	15°30'31	22°45	28°52	24°16	10°58	14°46	24° 0	28°59	21°41	26°16	11°28	11°34	15°37	n.a.	F 10
S 11	5 4 44	16°31'43	7♊57	28°34	23°41	11°45	14°38	24° 6	28°59	21°43	26°16	11°17	11°31	15°44	n.a.	S 11
S 12	5 8 41	17°32'55	23° 5	28°D25	23° 6	12°33	14°30	24°13	28°58	21°45	26°16	11° 5	11°28	15°51	n.a.	S 12
M13	5 12 37	18°34'07	7♋58	28°26	22°30	13°20	14°22	24°20	28°58	21°47	26°16	10°54	11°25	15°58	n.a.	M13
T 14	5 16 34	19°35'18	22°28	28°34	21°54	14° 7	14°14	24°26	28°58	21°49	26°D16	10°45	11°22	16° 4	n.a.	T 14
W15	5 20 30	20°36'29	6♌30	28°51	21°17	14°55	14° 6	24°33	28°57	21°51	26°16	10°38	11°19	16°11	n.a.	W15
T 16	5 24 27	21°37'40	20° 3	29°14	20°40	15°42	13°58	24°39	28°57	21°53	26°16	10°34	11°15	16°18	n.a.	T 16
F 17	5 28 23	22°38'50	3♍ 6	29°44	20° 3	16°29	13°50	24°46	28°56	21°55	26°16	10°33	11°12	16°24	n.a.	F 17
S 18	5 32 20	23°40'00	15°45	0♐19	19°27	17°17	13°42	24°52	28°56	21°57	26°16	10°D33	11° 9	16°31	n.a.	S 18
S 19	5 36 17	24°41'09	28° 3	1° 0	18°51	18° 4	13°34	24°59	28°55	21°59	26°17	10°R33	11° 6	16°38	n.a.	S 19
M20	5 40 13	25°42'18	10♎ 7	1°45	18°16	18°51	13°26	25° 5	28°55	22° 2	26°17	10°32	11° 3	16°45	n.a.	M20
T 21	5 44 10	26°43'26	22° 1	2°35	17°43	19°39	13°19	25°12	28°54	22° 4	26°17	10°29	11° 0	16°51	n.a.	T 21
W22	5 48 6	27°44'34	3♏50	3°29	17°11	20°26	13°11	25°18	28°53	22° 6	26°17	10°23	10°56	16°58	n.a.	W22
T 23	5 52 3	28°45'42	15°40	4°26	16°41	21°13	13° 3	25°24	28°52	22° 8	26°17	10°15	10°53	17° 5	n.a.	T 23
F 24	5 55 59	29°46'49	27°32	5°26	16°12	22° 1	12°56	25°30	28°51	22°10	26°17	10° 4	10°50	17°11	n.a.	F 24
S 25	5 59 56	0♑47'55	9♐31	6°28	15°45	22°48	12°48	25°37	28°50	22°12	26°18	9°51	10°47	17°18	n.a.	S 25
S 26	6 3 53	1°49'00	21°37	7°34	15°21	23°35	12°41	25°43	28°49	22°14	26°18	9°38	10°44	17°25	n.a.	S 26
M27	6 7 49	2°50'04	3♑52	8°41	14°58	24°22	12°34	25°49	28°48	22°16	26°18	9°25	10°40	17°32	n.a.	M27
T 28	6 11 46	3°51'07	16°17	9°51	14°38	25°10	12°27	25°55	28°47	22°19	26°19	9°13	10°37	17°38	n.a.	T 28
W29	6 15 42	4°52'10	28°51	11° 3	14°20	25°57	12°20	26° 1	28°46	22°21	26°19	9° 4	10°34	17°45	n.a.	W29
T 30	6 19 39	5°53'11	11♒35	12°16	14° 5	26°44	12°13	26° 7	28°45	22°23	26°19	8°58	10°31	17°52	n.a.	T 30
F 31	6 23 35	6♑54'10	24♒31	13♐32	13♐52	27♑32	12♊ 6	26♏13	28♌44	22♑25	26♓20	8♓54	10♓28	17♏58	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	21 s37	26 s15	3 s59	19 s54	2n 2	23 s42	0n 0	24 s49	1 s10	22n49	0 s 9	17 s10	1n36	12n41	0n46	22 s 8	0 s 9	17 s16	17 s17	7 s 7	7 s 7	20 s46			n.a.
T 2	21 47	23 8	3 14	19 24	2 19	23 27	0 14	24 48	1 10	22 49	0 8	17 12	1 36	12 41	0 46	22 8	0 9	17 16	17 17	7 10	7 8	20 48			n.a.
F 3	21 57	18 53	2 19	18 55	2 34	23 12	0 29	24 46	1 10	22 48	0 8	17 14	1 36	12 41	0 46	22 7	0 9	17 15	17 16	7 11	7 10	20 51			n.a.
S 4	22 7	13 40	1 15	18 29	2 46	22 57	0 44	24 44	1 10	22 47	0 8	17 16	1 36	12 41	0 47	22 7	0 9	17 15	17 16	7 12	7 11	20 53			n.a.
S 5	22 16	7 43	0 6	18 5	2 56	22 41	0 59	24 42	1 10	22 47	0 8	17 17	1 36	12 41	0 47	22 7	0 9	17 15	17 16	7 12	7 12	20 56			n.a.
M 6	22 25	1 16	1n 6	17 44	3 4	22 25	1 14	24 39	1 10	22 46	0 8	17 19	1 36	12 41	0 47	22 7	0 9	17 15	17 15	7 12	7 13	20 58			n.a.
T 7	22 33	5n26	2 15	17 27	3 10	22 9	1 30	24 36	1 10	22 45	0 8	17 21	1 36	12 41	0 47	22 6	0 9	17 14	17 15	7 13	7 15	21 0			n.a.
W 8	22 41	12 3	3 18	17 14	3 13	21 52	1 45	24 33	1 10	22 44	0 8	17 23	1 36	12 41	0 47	22 6	0 9	17 14	17 14	7 14	7 16	21 3			n.a.
T 9	22 48	18 9	4 9	17 5	3 14	21 36	2 1	24 29	1 10	22 44	0 7	17 24	1 36	12 41	0 47	22 6	0 9	17 14	17 14	7 17	7 17	21 5			n.a.
F 10	22 55	23 15	4 44	17 0	3 13	21 19	2 17	24 25	1 10	22 43	0 7	17 26	1 36	12 41	0 47	22 5	0 9	17 14	17 14	7 20	7 18	21 8			n.a.
S 11	23 1	26 48	4 59	16 58	3 11	21 2	2 32	24 21	1 10	22 42	0 7	17 28	1 36	12 42	0 47	22 5	0 9	17 13	17 13	7 25	7 19	21 10			n.a.
S 12	23 7	28 25	4 53	17 0	3 7	20 45	2 47	24 17	1 10	22 41	0 7	17 29	1 36	12 42	0 47	22 5	0 9	17 13	17 13	7 29	7 21	21 12			n.a.
M13	23 13	27 55	4 28	17 4	3 2	20 28	3 2	24 12	1 10	22 40	0 7	17 31	1 36	12 42	0 47	22 4	0 9	17 13	17 13	7 34	7 22	21 15			n.a.
T 14	23 18	25 31	3 45	17 12	2 57	20 11	3 17	24 7	1 10	22 40	0 7	17 32	1 36	12 42	0 47	22 4	0 9	17 12	17 12	7 37	7 23	21 17			n.a.
W15	23 23	21 35	2 49	17 22	2 50	19 54	3 32	24 2	1 10	22 39	0 6	17 34	1 36	12 42	0 47	22 4	0 9	17 12	17 12	7 40	7 24	21 19			n.a.
T 16	23 27	16 39	1 46	17 34	2 43	19 38	3 46	23 56	1 10	22 38	0 6	17 36	1 36	12 42	0 47	22 3	0 9	17 12	17 12	7 41	7 25	21 22			n.a.
F 17	23 30	11 6	0 39	17 48	2 35	19 22	3 59	23 50	1 10	22 37	0 6	17 37	1 36	12 43	0 47	22 3	0 9	17 11	17 11	7 42	7 27	21 24			n.a.
S 18	23 34	5 16	0 s28	18 4	2 26	19 6	4 12	23 44	1 10	22 36	0 6	17 39	1 36	12 43	0 47	22 3	0 9	17 11	17 11	7 42	7 28	21 26			n.a.
S 19	23 36	0 s37	1 31	18 21	2 18	18 51	4 25	23 38	1 10	22 36	0 6	17 40	1 36	12 43	0 47	22 3	0 9	17 10	17 10	7 42	7 29	21 29			n.a.
M20	23 39	6 20	2 30	18 39	2 9	18 36	4 36	23 31	1 9	22 35	0 6	17 42	1 36	12 43	0 47	22 2	0 9	17 10	17 10	7 42	7 30	21 31			n.a.
T 21	23 40	11 46	3 21	18 57	2 0	18 22	4 48	23 24	1 9	22 34	0 6	17 43	1 36	12 44	0 47	22 2	0 9	17 10	17 10	7 43	7 32	21 33			n.a.
W22	23 42	16 44	4 3	19 17	1 51	18 9	4 58	23 17	1 9	22 33	0 5	17 45	1 36	12 44	0 47	22 2	0 9	17 9	17 9	7 45	7 33	21 36			n.a.
T 23	23 42	21 5	4 34	19 36	1 42	17 56	5 8	23 9	1 9	22 32	0 5	17 46	1 37	12 44	0 47	22 1	0 9	17 9	17 9	7 49	7 34	21 38			n.a.
F 24	23 43	24 36	4 54	19 56	1 32	17 44	5 17	23 2	1 9	22 32	0 5	17 48	1 37	12 45	0 47	22 1	0 9	17 8	17 9	7 53	7 35	21 40			n.a.
S 25	23 43	27 5	5 1	20 16	1 23	17 33	5 25	22 54	1 9	22 31	0 5	17 49	1 37	12 45	0 47	22 1	0 9	17 8	17 8	7 58	7 36	21 43			n.a.
S 26	23 42	28 21	4 55	20 37	1 14	17 23	5 33	22 45	1 9	22 30	0 5	17 51	1 37	12 45	0 47	22 0	0 9	17 8	17 8	8 3	7 38	21 45			n.a.
M27	23 41	28 14	4 35	20 56	1 5	17 14	5 40	22 37	1 9	22 29	0 5	17 52	1 37	12 46	0 48	22 0	0 9	17 7	17 7	8 8	7 39	21 47			n.a.
T 28	23 39	26 42	4 1	21 16	0 56	17 5	5 46	22 28	1 8	22 28	0 4	17 53	1 37	12 46	0 48	21 59	0 9	17 7	17 7	8 12	7 40	21 50			n.a.
W29	23 37	23 49	3 16	21 35	0 47	16 58	5 52	22 19	1 8	22 28	0 4	17 55	1 37	12 47	0 48	21 59	0 9	17 6	17 7	8 16	7 41	21 52			n.a.
T 30	23 35	19 45	2 20	21 54	0 38	16 51	5 56	22 10	1 8	22 27	0 4	17 56	1 37	12 47	0 48	21 59	0 9	17 6	17 6	8 18	7 43	21 54			n.a.
F 31	23 s32	14 s42	1 s16	22 s12	0n29	16 s45	6n 1	22 s 0	1 s 8	22n26	0 s 4	17 s58	1n37	12n48	0n48	21 s58	0 s 9	17 s 5	17 s 6	8 s19	7 s44	21 s56			n.a.

Julian Day Number = 1672448.5, Delta T = 03h19m49s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°55'04, Lahiri = - 5°48'03 Julian Calendar 1 Dec. 135 BCE == Greg. Calendar 28 Nov. 135 BCE

The year -134 astronomical counting style corresponds to year 135 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

JANUARY 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 32	7♑55'09	7♓38	14♐48	13°R41	28♑19	12°R 0	26♏19	28°R42	22♑27	26♓20	8°D53	10♓25	18♏ 5	n.a.	S 1
S 2	6 31 28	8°56'05	20°59	16° 6	13♐33	29° 6	11♊53	26°25	28♌41	22°30	26°20	8♓54	10°21	18°12	n.a.	S 2
M 3	6 35 25	9°57'01	4♈36	17°25	13°28	29°53	11°47	26°30	28°40	22°32	26°21	8°R54	10°18	18°19	n.a.	M 3
T 4	6 39 22	10°57'55	18°30	18°46	13°25	0♒40	11°40	26°36	28°38	22°34	26°21	8°54	10°15	18°25	n.a.	T 4
W 5	6 43 18	11°58'47	2♉42	20° 8	13°D24	1°28	11°34	26°42	28°37	22°36	26°22	8°52	10°12	18°32	n.a.	W 5
T 6	6 47 15	12°59'38	17° 9	21°31	13°26	2°15	11°28	26°47	28°35	22°39	26°22	8°48	10° 9	18°39	n.a.	T 6
F 7	6 51 11	14° 0'27	1♊49	22°55	13°30	3° 2	11°22	26°53	28°34	22°41	26°23	8°42	10° 6	18°45	n.a.	F 7
S 8	6 55 8	15° 1'14	16°36	24°20	13°37	3°49	11°17	26°58	28°32	22°43	26°23	8°34	10° 2	18°52	n.a.	S 8
S 9	6 59 4	16° 2'00	1♋21	25°46	13°45	4°36	11°11	27° 4	28°30	22°45	26°24	8°25	9°59	18°59	n.a.	S 9
M10	7 3 1	17° 2'45	15°58	27°12	13°56	5°23	11° 6	27° 9	28°29	22°48	26°25	8°17	9°56	19° 6	n.a.	M10
T 11	7 6 57	18° 3'28	0♌18	28°40	14°10	6°10	11° 1	27°14	28°27	22°50	26°25	8°10	9°53	19°12	n.a.	T 11
W12	7 10 54	19° 4'10	14°15	0♑ 9	14°25	6°57	10°56	27°19	28°25	22°52	26°26	8° 5	9°50	19°19	n.a.	W12
T 13	7 14 51	20° 4'50	27°48	1°39	14°42	7°44	10°51	27°25	28°23	22°55	26°26	8° 2	9°46	19°26	n.a.	T 13
F 14	7 18 47	21° 5'29	10♍55	3° 9	15° 2	8°31	10°46	27°30	28°21	22°57	26°27	8°D 2	9°43	19°32	n.a.	F 14
S 15	7 22 44	22° 6'06	23°39	4°41	15°23	9°18	10°42	27°35	28°20	22°59	26°28	8° 3	9°40	19°39	n.a.	S 15
S 16	7 26 40	23° 6'42	6♎ 3	6°13	15°46	10° 5	10°37	27°40	28°18	23° 1	26°28	8° 4	9°37	19°46	n.a.	S 16
M17	7 30 37	24° 7'17	18°10	7°47	16°11	10°52	10°33	27°45	28°16	23° 4	26°29	8° 5	9°34	19°53	n.a.	M17
T 18	7 34 33	25° 7'50	0♏ 8	9°21	16°38	11°39	10°29	27°49	28°14	23° 6	26°30	8°R 5	9°31	19°59	n.a.	T 18
W19	7 38 30	26° 8'22	11°59	10°56	17° 6	12°26	10°25	27°54	28°12	23° 8	26°31	8° 4	9°27	20° 6	n.a.	W19
T 20	7 42 26	27° 8'53	23°51	12°32	17°36	13°13	10°22	27°59	28°10	23°10	26°31	8° 0	9°24	20°13	n.a.	T 20
F 21	7 46 23	28° 9'22	5♐46	14° 9	18° 7	13°59	10°18	28° 4	28° 7	23°13	26°32	7°55	9°21	20°19	n.a.	F 21
S 22	7 50 20	29° 9'50	17°48	15°47	18°40	14°46	10°15	28° 8	28° 5	23°15	26°33	7°49	9°18	20°26	n.a.	S 22
S 23	7 54 16	0♒10'16	0♑ 1	17°25	19°14	15°33	10°12	28°13	28° 3	23°17	26°34	7°42	9°15	20°33	n.a.	S 23
M24	7 58 13	1°10'41	12°27	19° 5	19°50	16°20	10° 9	28°17	28° 1	23°20	26°35	7°35	9°12	20°40	n.a.	M24
T 25	8 2 9	2°11'03	25° 5	20°46	20°27	17° 6	10° 7	28°21	27°59	23°22	26°36	7°29	9° 8	20°46	n.a.	T 25
W26	8 6 6	3°11'24	7♒58	22°27	21° 5	17°53	10° 4	28°26	27°56	23°24	26°37	7°24	9° 5	20°53	n.a.	W26
T 27	8 10 2	4°11'43	21° 4	24°10	21°44	18°40	10° 2	28°30	27°54	23°26	26°37	7°21	9° 2	21° 0	n.a.	T 27
F 28	8 13 59	5°12'00	4♓22	25°53	22°25	19°26	10° 0	28°34	27°52	23°29	26°38	7°D20	8°59	21° 6	n.a.	F 28
S 29	8 17 55	6°12'15	17°51	27°38	23° 7	20°13	9°58	28°38	27°49	23°31	26°39	7°20	8°56	21°13	n.a.	S 29
S 30	8 21 52	7°12'28	1♈32	29°24	23°49	20°59	9°56	28°42	27°47	23°33	26°40	7°22	8°52	21°20	n.a.	S 30
M31	8 25 49	8♒12'39	15♈22	1♒10	24♐33	21♒46	9♊55	28♏46	27♌45	23♑35	26♓41	7♓23	8♓49	21♏27	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s28	8s54	0s 7	22s30	0n20	16s41	6n 4	21s50	1s 8	22n25	0s 4	17s59	1n37	12n48	0n48	21s58	0s 9	17s 5	17s 6	8s20	7s45	21s59		n.a.
S 2	23 25	2 38	1n 4	22 47	0 12	16 37	6 7	21 40	1 7	22 25	0 4	18 0	1 37	12 49	0 48	21 58	0 9	17 4	17 5	8 20	7 46	22 1		n.a.
M 3	23 20	3n53	2 13	23 3	0 4	16 34	6 9	21 30	1 7	22 24	0 3	18 2	1 37	12 49	0 48	21 57	0 9	17 4	17 5	8 19	7 47	22 3		n.a.
T 4	23 15	10 20	3 15	23 18	0s 4	16 32	6 11	21 20	1 7	22 23	0 3	18 3	1 37	12 50	0 48	21 57	0 9	17 3	17 5	8 19	7 49	22 5		n.a.
W 5	23 10	16 24	4 7	23 33	0 12	16 31	6 12	21 9	1 7	22 23	0 3	18 4	1 37	12 50	0 48	21 57	0 9	17 3	17 4	8 20	7 50	22 8		n.a.
T 6	23 4	21 41	4 44	23 46	0 20	16 30	6 13	20 58	1 7	22 22	0 3	18 5	1 37	12 51	0 48	21 56	0 9	17 2	17 4	8 22	7 51	22 10		n.a.
F 7	22 58	25 42	5 3	23 59	0 28	16 30	6 13	20 47	1 6	22 21	0 3	18 7	1 37	12 51	0 48	21 56	0 9	17 2	17 4	8 24	7 52	22 12		n.a.
S 8	22 51	28 2	5 2	24 10	0 35	16 31	6 13	20 35	1 6	22 21	0 3	18 8	1 37	12 52	0 48	21 56	0 9	17 1	17 3	8 27	7 53	22 14		n.a.
S 9	22 44	28 24	4 41	24 21	0 42	16 33	6 12	20 24	1 6	22 20	0 3	18 9	1 37	12 53	0 48	21 55	0 9	17 1	17 3	8 31	7 55	22 17		n.a.
M10	22 37	26 45	4 2	24 30	0 49	16 35	6 11	20 12	1 6	22 19	0 2	18 10	1 37	12 53	0 48	21 55	0 9	17 0	17 2	8 34	7 56	22 19		n.a.
T 11	22 29	23 23	3 9	24 38	0 55	16 38	6 10	20 0	1 5	22 19	0 2	18 11	1 37	12 54	0 48	21 54	0 9	17 0	17 2	8 36	7 57	22 21		n.a.
W12	22 20	18 43	2 4	24 44	1 2	16 42	6 8	19 48	1 5	22 18	0 2	18 12	1 37	12 55	0 48	21 54	0 9	16 59	17 2	8 38	7 58	22 23		n.a.
T 13	22 12	13 14	0 55	24 50	1 8	16 46	6 6	19 35	1 5	22 18	0 2	18 14	1 37	12 55	0 48	21 54	0 9	16 58	17 1	8 39	8 0	22 25		n.a.
F 14	22 2	7 19	0s16	24 54	1 14	16 51	6 3	19 23	1 5	22 17	0 2	18 15	1 38	12 56	0 48	21 53	0 9	16 58	17 1	8 39	8 1	22 28		n.a.
S 15	21 53	1 17	1 23	24 57	1 19	16 56	6 0	19 10	1 4	22 17	0 2	18 16	1 38	12 57	0 48	21 53	0 9	16 57	17 1	8 39	8 2	22 30		n.a.
S 16	21 43	4s39	2 25	24 58	1 24	17 1	5 57	18 57	1 4	22 16	0 2	18 17	1 38	12 57	0 48	21 53	0 9	16 57	17 0	8 38	8 3	22 32		n.a.
M17	21 32	10 16	3 20	24 58	1 29	17 7	5 54	18 44	1 4	22 16	0 1	18 18	1 38	12 58	0 48	21 52	0 9	16 56	17 0	8 38	8 4	22 34		n.a.
T 18	21 21	15 27	4 4	24 57	1 34	17 13	5 50	18 30	1 3	22 15	0 1	18 19	1 38	12 59	0 48	21 52	0 9	16 56	17 0	8 38	8 6	22 36		n.a.
W19	21 10	20 1	4 38	24 54	1 39	17 20	5 47	18 17	1 3	22 15	0 1	18 20	1 38	12 59	0 48	21 51	0 9	16 55	16 59	8 38	8 7	22 38		n.a.
T 20	20 58	23 47	5 0	24 49	1 43	17 26	5 43	18 3	1 3	22 15	0 1	18 21	1 38	13 0	0 48	21 51	0 9	16 54	16 59	8 40	8 8	22 40		n.a.
F 21	20 46	26 35	5 9	24 43	1 46	17 33	5 38	17 49	1 3	22 14	0 1	18 22	1 38	13 1	0 48	21 51	0 9	16 54	16 59	8 42	8 9	22 43		n.a.
S 22	20 34	28 12	5 5	24 35	1 50	17 41	5 34	17 35	1 2	22 14	0 1	18 23	1 38	13 2	0 48	21 50	0 9	16 53	16 59	8 44	8 10	22 45		n.a.
S 23	20 21	28 29	4 47	24 26	1 53	17 48	5 30	17 21	1 2	22 14	0 1	18 24	1 38	13 3	0 48	21 50	0 9	16 52	16 58	8 47	8 12	22 47		n.a.
M24	20 8	27 21	4 15	24 15	1 56	17 55	5 25	17 6	1 2	22 13	0 0	18 25	1 38	13 3	0 48	21 50	0 9	16 52	16 58	8 49	8 13	22 49		n.a.
T 25	19 54	24 48	3 30	24 2	1 58	18 3	5 20	16 51	1 1	22 13	0 0	18 25	1 38	13 4	0 48	21 49	0 9	16 51	16 58	8 52	8 14	22 51		n.a.
W26	19 40	20 57	2 33	23 47	2 0	18 10	5 15	16 37	1 1	22 13	0 0	18 26	1 38	13 5	0 48	21 49	0 9	16 51	16 57	8 53	8 15	22 53		n.a.
T 27	19 26	16 1	1 28	23 31	2 1	18 18	5 10	16 22	1 1	22 13	0n 0	18 27	1 39	13 6	0 48	21 48	0 9	16 50	16 57	8 55	8 16	22 55		n.a.
F 28	19 11	10 16	0 16	23 13	2 3	18 26	5 5	16 7	1 0	22 12	0 0	18 28	1 39	13 7	0 49	21 48	0 9	16 49	16 57	8 55	8 18	22 57		n.a.
S 29	18 56	3 59	0n57	22 53	2 3	18 33	4 59	15 51	1 0	22 12	0 0	18 29	1 39	13 7	0 49	21 48	0 9	16 49	16 56	8 55	8 19	23 0		n.a.
S 30	18 41	2n35	2 9	22 32	2 4	18 41	4 54	15 36	0 59	22 12	0 0	18 29	1 39	13 8	0 49	21 47	0 9	16 48	16 56	8 54	8 20	23 2		n.a.
M31	18s25	9n 5	3n13	22s 8	2s 4	18s48	4n48	15s21	0s59	22n12	0n 1	18s30	1n39	13n 9	0n49	21s47	0s 9	16s47	16s56	8s54	8s21	23s 4		n.a.

Julian Day Number = 1672479.5, Delta T = 03h19m48s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'59, Lahiri = - 5°47'59 Julian Calendar 1 Jan. 134 BCE == Greg. Calendar 29 Dec. 135 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

FEBRUARY 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 45	9♒12'47	29♈21	2♒58	25♐17	22♒32	9°R53	28♏49	27°R42	23♑37	26♓42	7♓24	8♓46	21♏33	n.a.	T 1
W 2	8 33 42	10°12'53	13♉29	4°47	26° 3	23°19	9♊52	28°53	27♌40	23°40	26°43	7°R25	8°43	21°40	n.a.	W 2
T 3	8 37 38	11°12'57	27°43	6°37	26°49	24° 5	9°51	28°57	27°37	23°42	26°44	7°24	8°40	21°47	n.a.	T 3
F 4	8 41 35	12°12'59	12♊ 1	8°28	27°37	24°52	9°51	29° 0	27°35	23°44	26°45	7°22	8°37	21°53	n.a.	F 4
S 5	8 45 31	13°12'59	26°20	10°20	28°25	25°38	9°50	29° 4	27°32	23°46	26°46	7°19	8°33	22° 0	n.a.	S 5
S 6	8 49 28	14°12'56	10♋36	12°13	29°14	26°24	9°50	29° 7	27°30	23°48	26°47	7°15	8°30	22° 7	n.a.	S 6
M 7	8 53 25	15°12'51	24°44	14° 6	0♑ 4	27°10	9°D50	29°10	27°27	23°51	26°49	7°12	8°27	22°14	n.a.	M 7
T 8	8 57 21	16°12'44	8♌39	16° 1	0°54	27°57	9°50	29°13	27°25	23°53	26°50	7° 9	8°24	22°20	n.a.	T 8
W 9	9 1 18	17°12'35	22°18	17°57	1°45	28°43	9°50	29°16	27°22	23°55	26°51	7° 8	8°21	22°27	n.a.	W 9
T 10	9 5 14	18°12'24	5♍39	19°54	2°37	29°29	9°51	29°19	27°20	23°57	26°52	7°D 7	8°18	22°34	n.a.	T 10
F 11	9 9 11	19°12'10	18°40	21°51	3°30	0♓15	9°51	29°22	27°17	23°59	26°53	7° 7	8°14	22°41	n.a.	F 11
S 12	9 13 7	20°11'55	1♎22	23°49	4°23	1° 1	9°52	29°25	27°15	24° 1	26°54	7° 8	8°11	22°47	n.a.	S 12
S 13	9 17 4	21°11'38	13°46	25°48	5°16	1°47	9°53	29°28	27°12	24° 3	26°55	7°10	8° 8	22°54	n.a.	S 13
M14	9 21 0	22°11'19	25°57	27°47	6°11	2°33	9°54	29°31	27°10	24° 5	26°56	7°11	8° 5	23° 1	n.a.	M14
T 15	9 24 57	23°10'58	7♏57	29°46	7° 6	3°19	9°56	29°33	27° 7	24° 7	26°58	7°12	8° 2	23° 7	n.a.	T 15
W16	9 28 53	24°10'35	19°51	1♓46	8° 1	4° 5	9°57	29°36	27° 4	24° 9	26°59	7°R13	7°58	23°14	n.a.	W16
T 17	9 32 50	25°10'11	1♐43	3°45	8°57	4°51	9°59	29°38	27° 2	24°11	27° 0	7°13	7°55	23°21	n.a.	T 17
F 18	9 36 47	26° 9'44	13°40	5°43	9°54	5°37	10° 1	29°40	26°59	24°13	27° 1	7°12	7°52	23°28	n.a.	F 18
S 19	9 40 43	27° 9'16	25°44	7°40	10°51	6°22	10° 4	29°42	26°57	24°15	27° 3	7°11	7°49	23°34	n.a.	S 19
S 20	9 44 40	28° 8'46	8♑ 0	9°37	11°48	7° 8	10° 6	29°45	26°54	24°17	27° 4	7°10	7°46	23°41	n.a.	S 20
M21	9 48 36	29° 8'14	20°31	11°32	12°46	7°54	10° 8	29°47	26°51	24°19	27° 5	7° 9	7°43	23°48	n.a.	M21
T 22	9 52 33	0♓ 7'40	3♒20	13°24	13°44	8°39	10°11	29°48	26°49	24°21	27° 6	7° 8	7°39	23°54	n.a.	T 22
W23	9 56 29	1° 7'04	16°27	15°15	14°43	9°25	10°14	29°50	26°46	24°23	27° 8	7° 7	7°36	24° 1	n.a.	W23
T 24	10 0 26	2° 6'26	29°53	17° 2	15°42	10°11	10°17	29°52	26°43	24°25	27° 9	7° 7	7°33	24° 8	n.a.	T 24
F 25	10 4 22	3° 5'45	13♓36	18°47	16°41	10°56	10°21	29°54	26°41	24°27	27°10	7°D 7	7°30	24°15	n.a.	F 25
S 26	10 8 19	4° 5'03	27°33	20°27	17°41	11°42	10°24	29°55	26°38	24°29	27°11	7° 7	7°27	24°21	n.a.	S 26
S 27	10 12 16	5° 4'18	11♈41	22° 4	18°41	12°27	10°28	29°56	26°36	24°31	27°13	7° 7	7°24	24°28	n.a.	S 27
M28	10 16 12	6♓ 3'31	25♈56	23♓36	19♑42	13♓12	10♊32	29♏58	26♌33	24♑33	27♓14	7♓ 7	7♓20	24♏35	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	18s 9	15n13	4n 7	21s43	2s 3	18s55	4n43	15s 5	0s59	22n12	0n 1	18s31	1n39	13n10	0n49	21s47	0s 9	16s47	16s56	8s53	8s22	23s 6		n.a.	T 1
W 2	17 53	20 37	4 47	21 15	2 2	19 2	4 37	14 49	0 58	22 12	0 1	18 32	1 39	13 11	0 49	21 46	0 9	16 46	16 55	8 53	8 24	23 8		n.a.	W 2
T 3	17 37	24 53	5 9	20 46	2 0	19 9	4 31	14 33	0 58	22 12	0 1	18 32	1 39	13 12	0 49	21 46	0 9	16 46	16 55	8 54	8 25	23 10		n.a.	T 3
F 4	17 20	27 39	5 12	20 15	1 58	19 16	4 25	14 17	0 58	22 12	0 1	18 33	1 39	13 13	0 49	21 45	0 9	16 45	16 55	8 54	8 26	23 12		n.a.	F 4
S 5	17 3	28 36	4 57	19 42	1 56	19 23	4 20	14 1	0 57	22 12	0 1	18 34	1 39	13 14	0 49	21 45	0 9	16 44	16 55	8 55	8 27	23 14		n.a.	S 5
S 6	16 45	27 38	4 22	19 8	1 53	19 29	4 14	13 45	0 57	22 12	0 1	18 34	1 39	13 14	0 49	21 45	0 10	16 44	16 54	8 57	8 28	23 16		n.a.	S 6
M 7	16 27	24 54	3 32	18 31	1 49	19 35	4 8	13 28	0 56	22 12	0 2	18 35	1 40	13 15	0 49	21 44	0 10	16 43	16 54	8 58	8 30	23 18		n.a.	M 7
T 8	16 9	20 43	2 30	17 53	1 45	19 41	4 2	13 12	0 56	22 12	0 2	18 36	1 40	13 16	0 49	21 44	0 10	16 42	16 54	8 59	8 31	23 20		n.a.	T 8
W 9	15 51	15 30	1 21	17 12	1 40	19 47	3 56	12 55	0 56	22 13	0 2	18 36	1 40	13 17	0 49	21 44	0 10	16 42	16 54	9 0	8 32	23 22		n.a.	W 9
T 10	15 33	9 40	0 8	16 30	1 34	19 52	3 49	12 39	0 55	22 13	0 2	18 37	1 40	13 18	0 49	21 43	0 10	16 41	16 53	9 0	8 33	23 24		n.a.	T 10
F 11	15 14	3 34	1s 3	15 46	1 28	19 57	3 43	12 22	0 55	22 13	0 2	18 37	1 40	13 19	0 49	21 43	0 10	16 40	16 53	9 0	8 34	23 26		n.a.	F 11
S 12	14 55	2s32	2 10	15 1	1 22	20 1	3 37	12 5	0 54	22 13	0 2	18 38	1 40	13 20	0 49	21 43	0 10	16 40	16 53	8 59	8 36	23 28		n.a.	S 12
S 13	14 36	8 23	3 9	14 14	1 15	20 5	3 31	11 48	0 54	22 14	0 2	18 38	1 40	13 21	0 49	21 42	0 10	16 39	16 53	8 59	8 37	23 30		n.a.	S 13
M14	14 16	13 49	3 58	13 25	1 7	20 9	3 25	11 31	0 53	22 14	0 2	18 39	1 40	13 22	0 49	21 42	0 10	16 38	16 53	8 58	8 38	23 32		n.a.	M14
T 15	13 57	18 40	4 36	12 35	0 58	20 13	3 19	11 14	0 53	22 14	0 3	18 39	1 40	13 22	0 49	21 41	0 10	16 38	16 52	8 58	8 39	23 34		n.a.	T 15
W16	13 37	22 44	5 2	11 44	0 49	20 16	3 13	10 56	0 52	22 15	0 3	18 40	1 40	13 23	0 49	21 41	0 10	16 37	16 52	8 58	8 40	23 36		n.a.	W16
T 17	13 17	25 52	5 15	10 52	0 40	20 18	3 6	10 39	0 52	22 15	0 3	18 40	1 41	13 24	0 49	21 41	0 10	16 36	16 52	8 58	8 42	23 38		n.a.	T 17
F 18	12 56	27 54	5 14	9 59	0 30	20 21	3 0	10 21	0 52	22 15	0 3	18 40	1 41	13 25	0 49	21 40	0 10	16 36	16 52	8 58	8 43	23 40		n.a.	F 18
S 19	12 36	28 38	5 0	9 5	0 19	20 22	2 54	10 4	0 51	22 16	0 3	18 41	1 41	13 26	0 49	21 40	0 10	16 35	16 52	8 58	8 44	23 42		n.a.	S 19
S 20	12 15	27 59	4 32	8 10	0 8	20 24	2 48	9 46	0 51	22 16	0 3	18 41	1 41	13 27	0 49	21 40	0 10	16 34	16 51	8 59	8 45	23 44		n.a.	S 20
M21	11 54	25 55	3 50	7 16	0n 4	20 24	2 42	9 29	0 50	22 17	0 3	18 41	1 41	13 28	0 49	21 39	0 10	16 34	16 51	8 59	8 46	23 46		n.a.	M21
T 22	11 33	22 29	2 56	6 21	0 16	20 25	2 36	9 11	0 50	22 17	0 3	18 42	1 41	13 29	0 49	21 39	0 10	16 33	16 51	9 0	8 48	23 48		n.a.	T 22
W23	11 12	17 52	1 52	5 27	0 28	20 25	2 30	8 53	0 49	22 18	0 4	18 42	1 41	13 30	0 49	21 39	0 10	16 32	16 51	9 0	8 49	23 50		n.a.	W23
T 24	10 51	12 16	0 40	4 33	0 40	20 24	2 24	8 35	0 49	22 18	0 4	18 42	1 41	13 31	0 49	21 38	0 10	16 32	16 51	9 0	8 50	23 52		n.a.	T 24
F 25	10 29	5 58	0n36	3 41	0 53	20 23	2 18	8 17	0 48	22 19	0 4	18 42	1 41	13 31	0 49	21 38	0 10	16 31	16 51	9 0	8 51	23 54		n.a.	F 25
S 26	10 7	0n42	1 51	2 49	1 6	20 21	2 12	8 0	0 48	22 20	0 4	18 43	1 42	13 32	0 49	21 38	0 10	16 30	16 50	9 0	8 52	23 56		n.a.	S 26
S 27	9 46	7 26	3 0	1 59	1 18	20 19	2 6	7 42	0 47	22 20	0 4	18 43	1 42	13 33	0 49	21 38	0 10	16 30	16 50	9 0	8 54	23 57		n.a.	S 27
M28	9s24	13n50	3n59	1s11	1n31	20s16	2n 0	7s24	0s47	22n21	0n 4	18s43	1n42	13n34	0n49	21s37	0s10	16s29	16s50	9s 0	8s55	23s59		n.a.	M28

Julian Day Number = 1672510.5, Delta T = 03h19m47s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'55, Lahiri = - 5°47'55 Julian Calendar 1 Feb. 134 BCE == Greg. Calendar 29 Jan. 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

MARCH 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 9	7♓ 2'41	10♉14	25♓ 3	20♑43	13♓58	10♊36	29♏59	26°R31	24♑34	27♓15	7°R 7	7♓17	24♏41	n.a.	T 1
W 2	10 24 5	8° 1'49	24°32	26°25	21°44	14°43	10°40	0♐ 0	26♌28	24°36	27°17	7♓ 7	7°14	24°48	n.a.	W 2
T 3	10 28 2	9° 0'55	8♊46	27°41	22°45	15°28	10°44	0° 1	26°26	24°38	27°18	7°D 7	7°11	24°55	n.a.	T 3
F 4	10 31 58	9°59'58	22°54	28°52	23°47	16°13	10°49	0° 2	26°23	24°40	27°19	7° 7	7° 8	25° 2	n.a.	F 4
S 5	10 35 55	10°58'59	6♋54	29°56	24°49	16°58	10°53	0° 3	26°21	24°41	27°21	7° 8	7° 4	25° 8	n.a.	S 5
S 6	10 39 51	11°57'58	20°44	0♈55	25°51	17°44	10°58	0° 4	26°18	24°43	27°22	7° 8	7° 1	25°15	n.a.	S 6
M 7	10 43 48	12°56'54	4♌24	1°47	26°54	18°29	11° 3	0° 4	26°16	24°45	27°23	7° 9	6°58	25°22	n.a.	M 7
T 8	10 47 45	13°55'48	17°51	2°32	27°57	19°14	11° 8	0° 5	26°13	24°46	27°25	7° 9	6°55	25°29	n.a.	T 8
W 9	10 51 41	14°54'39	1♍ 5	3°11	29° 0	19°58	11°14	0° 5	26°11	24°48	27°26	7°R 9	6°52	25°35	n.a.	W 9
T 10	10 55 38	15°53'28	14° 5	3°43	0♒ 3	20°43	11°19	0° 6	26° 8	24°50	27°28	7° 9	6°49	25°42	n.a.	T 10
F 11	10 59 34	16°52'15	26°51	4° 8	1° 7	21°28	11°25	0° 6	26° 6	24°51	27°29	7° 9	6°45	25°49	n.a.	F 11
S 12	11 3 31	17°51'00	9♎23	4°27	2°11	22°13	11°31	0° 6	26° 4	24°53	27°30	7° 8	6°42	25°55	n.a.	S 12
S 13	11 7 27	18°49'43	21°42	4°39	3°15	22°58	11°37	0°R 6	26° 1	24°54	27°32	7° 6	6°39	26° 2	n.a.	S 13
M14	11 11 24	19°48'25	3♏51	4°R44	4°19	23°42	11°43	0° 6	25°59	24°56	27°33	7° 5	6°36	26° 9	n.a.	M14
T 15	11 15 20	20°47'04	15°50	4°43	5°24	24°27	11°49	0° 6	25°57	24°57	27°34	7° 3	6°33	26°16	n.a.	T 15
W16	11 19 17	21°45'42	27°45	4°36	6°28	25°12	11°55	0° 6	25°54	24°59	27°36	7° 1	6°29	26°22	n.a.	W16
T 17	11 23 13	22°44'17	9♐38	4°23	7°33	25°56	12° 2	0° 5	25°52	25° 0	27°37	7° 0	6°26	26°29	n.a.	T 17
F 18	11 27 10	23°42'51	21°33	4° 5	8°38	26°41	12° 9	0° 5	25°50	25° 2	27°39	6°D59	6°23	26°36	n.a.	F 18
S 19	11 31 7	24°41'24	3♑37	3°41	9°43	27°25	12°16	0° 4	25°48	25° 3	27°40	6°59	6°20	26°42	n.a.	S 19
S 20	11 35 3	25°39'54	15°52	3°13	10°49	28° 9	12°23	0° 4	25°46	25° 4	27°41	7° 0	6°17	26°49	n.a.	S 20
M21	11 39 0	26°38'23	28°23	2°41	11°55	28°54	12°30	0° 3	25°43	25° 6	27°43	7° 2	6°14	26°56	n.a.	M21
T 22	11 42 56	27°36'50	11♒15	2° 5	13° 0	29°38	12°37	0° 2	25°41	25° 7	27°44	7° 3	6°10	27° 3	n.a.	T 22
W23	11 46 53	28°35'16	24°29	1°27	14° 6	0♈22	12°44	0° 1	25°39	25° 8	27°46	7° 4	6° 7	27° 9	n.a.	W23
T 24	11 50 49	29°33'39	8♓ 8	0°48	15°12	1° 6	12°52	0° 0	25°37	25° 9	27°47	7°R 5	6° 4	27°16	n.a.	T 24
F 25	11 54 46	0♈32'01	22° 9	0° 7	16°19	1°51	13° 0	29♏59	25°35	25°11	27°48	7° 4	6° 1	27°23	n.a.	F 25
S 26	11 58 42	1°30'20	6♈29	29♓25	17°25	2°35	13° 7	29°58	25°33	25°12	27°50	7° 2	5°58	27°30	n.a.	S 26
S 27	12 2 39	2°28'38	21° 5	28°44	18°32	3°19	13°15	29°57	25°31	25°13	27°51	6°59	5°55	27°36	n.a.	S 27
M28	12 6 36	3°26'54	5♉48	28° 4	19°38	4° 3	13°23	29°55	25°29	25°14	27°53	6°56	5°51	27°43	n.a.	M28
T 29	12 10 32	4°25'08	20°32	27°26	20°45	4°47	13°32	29°54	25°28	25°15	27°54	6°52	5°48	27°50	n.a.	T 29
W30	12 14 29	5°23'20	5♊ 9	26°51	21°52	5°31	13°40	29°52	25°26	25°16	27°55	6°49	5°45	27°56	n.a.	W30
T 31	12 18 25	6♈21'30	19♊35	26♓18	22♒59	6♈14	13♊48	29♏50	25♌24	25♑17	27♓57	6♓47	5♓42	28♏ 3	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	9s 1	19n31	4n43	0s25	1n43	20s13	1n54	7s 5	0s46	22n22	0n 4	18s43	1n42	13n35	0n49	21s37	0s10	16s28	16s50	9s 0	8s56	24s 1			n.a.
W 2	8 39	24 6	5 9	0n19	1 55	20 9	1 48	6 47	0 46	22 22	0 4	18 43	1 42	13 36	0 49	21 37	0 10	16 28	16 50	9 0	8 57	24 3			n.a.
T 3	8 17	27 14	5 17	1 0	2 6	20 5	1 42	6 29	0 45	22 23	0 4	18 43	1 42	13 37	0 49	21 36	0 10	16 27	16 50	9 0	8 58	24 5			n.a.
F 4	7 54	28 36	5 5	1 38	2 18	20 1	1 37	6 11	0 45	22 24	0 5	18 44	1 42	13 38	0 49	21 36	0 10	16 26	16 50	9 0	9 0	24 7			n.a.
S 5	7 32	28 7	4 35	2 14	2 28	19 55	1 31	5 53	0 44	22 25	0 5	18 44	1 42	13 38	0 49	21 36	0 10	16 26	16 49	9 0	9 1	24 9			n.a.
S 6	7 9	25 52	3 50	2 46	2 38	19 49	1 25	5 35	0 44	22 25	0 5	18 44	1 42	13 39	0 49	21 35	0 10	16 25	16 49	8 59	9 2	24 11			n.a.
M 7	6 46	22 9	2 52	3 15	2 47	19 43	1 20	5 16	0 43	22 26	0 5	18 44	1 43	13 40	0 49	21 35	0 10	16 24	16 49	8 59	9 3	24 13			n.a.
T 8	6 23	17 19	1 45	3 41	2 55	19 36	1 14	4 58	0 43	22 27	0 5	18 44	1 43	13 41	0 49	21 35	0 10	16 24	16 49	8 59	9 4	24 14			n.a.
W 9	6 1	11 44	0 34	4 3	3 2	19 29	1 8	4 40	0 42	22 28	0 5	18 44	1 43	13 42	0 49	21 35	0 10	16 23	16 49	8 59	9 6	24 16			n.a.
T 10	5 38	5 45	0s38	4 22	3 8	19 21	1 3	4 21	0 42	22 29	0 5	18 44	1 43	13 43	0 49	21 34	0 10	16 23	16 49	8 59	9 7	24 18			n.a.
F 11	5 14	0s22	1 47	4 37	3 13	19 12	0 58	4 3	0 41	22 30	0 5	18 44	1 43	13 43	0 49	21 34	0 10	16 22	16 49	8 59	9 8	24 20			n.a.
S 12	4 51	6 21	2 49	4 48	3 17	19 3	0 52	3 45	0 41	22 31	0 5	18 44	1 43	13 44	0 49	21 34	0 10	16 21	16 49	9 0	9 9	24 22			n.a.
S 13	4 28	11 59	3 42	4 55	3 20	18 54	0 47	3 26	0 40	22 32	0 6	18 43	1 43	13 45	0 49	21 33	0 10	16 21	16 49	9 0	9 10	24 23			n.a.
M14	4 5	17 5	4 24	4 58	3 21	18 43	0 42	3 8	0 40	22 32	0 6	18 43	1 43	13 46	0 49	21 33	0 10	16 20	16 49	9 1	9 12	24 25			n.a.
T 15	3 42	21 27	4 54	4 57	3 21	18 33	0 37	2 50	0 39	22 33	0 6	18 43	1 43	13 47	0 49	21 33	0 10	16 20	16 49	9 1	9 13	24 27			n.a.
W16	3 18	24 56	5 11	4 53	3 19	18 22	0 32	2 31	0 38	22 34	0 6	18 43	1 43	13 47	0 49	21 33	0 10	16 19	16 49	9 2	9 14	24 29			n.a.
T 17	2 55	27 20	5 15	4 45	3 16	18 10	0 27	2 13	0 38	22 35	0 6	18 43	1 44	13 48	0 49	21 32	0 10	16 18	16 49	9 3	9 15	24 31			n.a.
F 18	2 31	28 31	5 5	4 33	3 11	17 58	0 22	1 54	0 37	22 36	0 6	18 43	1 44	13 49	0 48	21 32	0 10	16 18	16 49	9 3	9 16	24 32			n.a.
S 19	2 8	28 22	4 42	4 18	3 5	17 45	0 17	1 36	0 37	22 37	0 6	18 43	1 44	13 50	0 48	21 32	0 10	16 17	16 49	9 3	9 17	24 34			n.a.
S 20	1 45	26 50	4 6	4 0	2 58	17 32	0 12	1 18	0 36	22 38	0 6	18 42	1 44	13 50	0 48	21 32	0 10	16 17	16 48	9 2	9 19	24 36			n.a.
M21	1 21	23 56	3 17	3 39	2 48	17 18	0 7	0 59	0 36	22 39	0 6	18 42	1 44	13 51	0 48	21 32	0 10	16 16	16 48	9 2	9 20	24 38			n.a.
T 22	0 58	19 48	2 17	3 15	2 38	17 4	0 3	0 41	0 35	22 41	0 6	18 42	1 44	13 52	0 48	21 31	0 10	16 15	16 48	9 1	9 21	24 40			n.a.
W23	0 34	14 35	1 9	2 49	2 26	16 49	0s 2	0 23	0 35	22 42	0 7	18 41	1 44	13 52	0 48	21 31	0 10	16 15	16 48	9 1	9 22	24 41			n.a.
T 24	0 11	8 32	0n 6	2 21	2 14	16 34	0 6	0 4	0 34	22 43	0 7	18 41	1 44	13 53	0 48	21 31	0 10	16 14	16 48	9 1	9 23	24 43			n.a.
F 25	0n13	1 54	1 22	1 52	2 0	16 18	0 11	0n14	0 33	22 44	0 7	18 41	1 44	13 54	0 48	21 31	0 10	16 14	16 48	9 1	9 25	24 45			n.a.
S 26	0 36	4n58	2 35	1 22	1 45	16 2	0 15	0 32	0 33	22 45	0 7	18 40	1 44	13 54	0 48	21 30	0 10	16 13	16 48	9 2	9 26	24 46			n.a.
S 27	1 0	11 41	3 38	0 51	1 29	15 45	0 19	0 50	0 32	22 46	0 7	18 40	1 45	13 55	0 48	21 30	0 10	16 13	16 48	9 3	9 27	24 48			n.a.
M28	1 23	17 49	4 28	0 21	1 13	15 28	0 24	1 8	0 32	22 47	0 7	18 40	1 45	13 56	0 48	21 30	0 10	16 12	16 48	9 4	9 28	24 50			n.a.
T 29	1 47	22 54	5 0	0s10	0 57	15 11	0 28	1 27	0 31	22 48	0 7	18 39	1 45	13 56	0 48	21 30	0 10	16 12	16 48	9 5	9 29	24 52			n.a.
W30	2 10	26 32	5 13	0 39	0 40	14 53	0 32	1 45	0 31	22 49	0 7	18 39	1 45	13 57	0 48	21 30	0 10	16 11	16 49	9 7	9 30	24 53			n.a.
T 31	2n33	28n22	5n 5	1s 8	0n23	14s34	0s35	2n 3	0s30	22n50	0n 7	18s38	1n45	13n57	0n48	21s30	0s10	16s10	16s49	9s 7	9s32	24s55			n.a.

Julian Day Number = 1672538.5, Delta T = 03h19m47s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'51, Lahiri = - 5°47'51 Julian Calendar 1 March 134 BCE == Greg. Calendar 26 Feb. 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

APRIL 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 22 22	7♈19'38	3♋45	25°R49	24♒ 6	6♈58	13♊57	29°R49	25°R22	25♑18	27♓58	6°D46	5♓39	28♏10	n.a.	F 1
S 2	12 26 18	8°17'43	17°38	25♓23	25°14	7°42	14° 6	29♏47	25♌21	25°19	28° 0	6♓46	5°35	28°17	n.a.	S 2
S 3	12 30 15	9°15'47	1♌14	25° 2	26°21	8°26	14°14	29°45	25°19	25°20	28° 1	6°47	5°32	28°23	n.a.	S 3
M 4	12 34 11	10°13'48	14°34	24°45	27°29	9° 9	14°23	29°43	25°17	25°21	28° 2	6°49	5°29	28°30	n.a.	M 4
T 5	12 38 8	11°11'48	27°38	24°32	28°36	9°53	14°32	29°41	25°16	25°22	28° 4	6°50	5°26	28°37	n.a.	T 5
W 6	12 42 5	12° 9'45	10♍30	24°24	29°44	10°36	14°41	29°39	25°14	25°23	28° 5	6°R50	5°23	28°43	n.a.	W 6
T 7	12 46 1	13° 7'41	23° 9	24°D21	0♓52	11°20	14°51	29°36	25°13	25°24	28° 6	6°49	5°20	28°50	n.a.	T 7
F 8	12 49 58	14° 5'34	5♎38	24°23	2° 0	12° 3	15° 0	29°34	25°11	25°24	28° 8	6°46	5°16	28°57	n.a.	F 8
S 9	12 53 54	15° 3'27	17°56	24°29	3° 8	12°46	15° 9	29°32	25°10	25°25	28° 9	6°41	5°13	29° 4	n.a.	S 9
S 10	12 57 51	16° 1'17	0♏ 6	24°40	4°16	13°30	15°19	29°29	25° 9	25°26	28°11	6°35	5°10	29°10	n.a.	S 10
M11	13 1 47	16°59'06	12° 9	24°56	5°24	14°13	15°29	29°27	25° 7	25°27	28°12	6°27	5° 7	29°17	n.a.	M11
T 12	13 5 44	17°56'54	24° 6	25°16	6°33	14°56	15°38	29°24	25° 6	25°27	28°13	6°20	5° 4	29°24	n.a.	T 12
W13	13 9 40	18°54'40	5♐59	25°40	7°41	15°39	15°48	29°21	25° 5	25°28	28°15	6°13	5° 1	29°31	n.a.	W13
T 14	13 13 37	19°52'25	17°51	26° 9	8°50	16°22	15°58	29°18	25° 4	25°28	28°16	6° 7	4°57	29°37	n.a.	T 14
F 15	13 17 33	20°50'09	29°46	26°42	9°59	17° 5	16° 8	29°15	25° 3	25°29	28°17	6° 3	4°54	29°44	n.a.	F 15
S 16	13 21 30	21°47'52	11♑48	27°19	11° 7	17°48	16°18	29°12	25° 1	25°30	28°18	6° 0	4°51	29°51	n.a.	S 16
S 17	13 25 27	22°45'33	24° 0	28° 0	12°16	18°31	16°29	29° 9	25° 0	25°30	28°20	6°D 0	4°48	29°57	n.a.	S 17
M18	13 29 23	23°43'13	6♒29	28°44	13°25	19°14	16°39	29° 6	24°59	25°31	28°21	6° 1	4°45	0♐ 4	n.a.	M18
T 19	13 33 20	24°40'52	19°17	29°32	14°34	19°57	16°49	29° 3	24°59	25°31	28°22	6° 2	4°41	0°11	n.a.	T 19
W20	13 37 16	25°38'30	2♓31	0♈24	15°43	20°40	17° 0	29° 0	24°58	25°31	28°24	6°R 3	4°38	0°18	n.a.	W20
T 21	13 41 13	26°36'07	16°11	1°19	16°52	21°23	17°11	28°57	24°57	25°32	28°25	6° 2	4°35	0°24	n.a.	T 21
F 22	13 45 9	27°33'42	0♈19	2°17	18° 2	22° 5	17°21	28°53	24°56	25°32	28°26	6° 0	4°32	0°31	n.a.	F 22
S 23	13 49 6	28°31'17	14°53	3°18	19°11	22°48	17°32	28°50	24°55	25°32	28°27	5°55	4°29	0°38	n.a.	S 23
S 24	13 53 2	29°28'50	29°46	4°22	20°20	23°30	17°43	28°46	24°55	25°33	28°29	5°49	4°26	0°44	n.a.	S 24
M25	13 56 59	0♉26'22	14♉51	5°30	21°30	24°13	17°54	28°43	24°54	25°33	28°30	5°41	4°22	0°51	n.a.	M25
T 26	14 0 56	1°23'53	29°58	6°40	22°39	24°55	18° 5	28°39	24°54	25°33	28°31	5°33	4°19	0°58	n.a.	T 26
W27	14 4 52	2°21'23	14♊57	7°53	23°49	25°38	18°16	28°35	24°53	25°33	28°32	5°25	4°16	1° 5	n.a.	W27
T 28	14 8 49	3°18'51	29°40	9° 9	24°58	26°20	18°27	28°32	24°53	25°33	28°33	5°19	4°13	1°11	n.a.	T 28
F 29	14 12 45	4°16'18	14♋ 1	10°27	26° 8	27° 3	18°38	28°28	24°52	25°33	28°35	5°16	4°10	1°18	n.a.	F 29
S 30	14 16 42	5♉13'43	27♋58	11♈49	27♓18	27♈45	18♊50	28♏24	24♌52	25♑34	28♓36	5♓14	4♓ 6	1♐25	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	2n56	28n18	4n39	1s35	0n 7	14s15	0s39	2n21	0s29	22n52	0n 7	18s38	1n45	13n58	0n48	21s29	0s10	16s10	16s49	9s 8	9s33	24s57		n.a.
S 2	3 20	26 27	3 57	2 0	0s10	13 56	0 43	2 39	0 29	22 53	0 7	18 38	1 45	13 58	0 48	21 29	0 10	16 9	16 49	9 8	9 34	24 58		n.a.
S 3	3 43	23 4	3 2	2 23	0 26	13 36	0 47	2 57	0 28	22 54	0 8	18 37	1 45	13 59	0 48	21 29	0 10	16 9	16 49	9 7	9 35	25 0		n.a.
M 4	4 6	18 32	1 59	2 44	0 41	13 16	0 50	3 15	0 28	22 55	0 8	18 37	1 45	14 0	0 48	21 29	0 10	16 8	16 49	9 7	9 36	25 2		n.a.
T 5	4 29	13 13	0 50	3 3	0 56	12 56	0 54	3 32	0 27	22 56	0 8	18 36	1 45	14 0	0 48	21 29	0 10	16 8	16 49	9 6	9 38	25 3		n.a.
W 6	4 52	7 25	0s20	3 19	1 10	12 35	0 57	3 50	0 27	22 57	0 8	18 36	1 45	14 1	0 48	21 29	0 10	16 7	16 49	9 6	9 39	25 5		n.a.
T 7	5 14	1 25	1 28	3 33	1 24	12 14	1 0	4 8	0 26	22 58	0 8	18 35	1 45	14 1	0 48	21 29	0 10	16 7	16 49	9 7	9 40	25 7		n.a.
F 8	5 37	4s33	2 30	3 44	1 37	11 52	1 3	4 26	0 25	23 0	0 8	18 34	1 45	14 1	0 48	21 28	0 10	16 6	16 49	9 8	9 41	25 8		n.a.
S 9	6 0	10 15	3 24	3 53	1 49	11 30	1 7	4 43	0 25	23 1	0 8	18 34	1 46	14 2	0 48	21 28	0 11	16 6	16 49	9 10	9 42	25 10		n.a.
S 10	6 22	15 31	4 9	3 58	2 0	11 8	1 9	5 1	0 24	23 2	0 8	18 33	1 46	14 2	0 48	21 28	0 11	16 6	16 49	9 12	9 43	25 11		n.a.
M11	6 45	20 7	4 42	4 2	2 10	10 45	1 12	5 18	0 24	23 3	0 8	18 33	1 46	14 3	0 48	21 28	0 11	16 5	16 49	9 15	9 45	25 13		n.a.
T 12	7 7	23 52	5 2	4 2	2 20	10 22	1 15	5 36	0 23	23 4	0 8	18 32	1 46	14 3	0 48	21 28	0 11	16 5	16 49	9 17	9 46	25 15		n.a.
W13	7 29	26 37	5 8	4 0	2 28	9 59	1 18	5 53	0 22	23 5	0 9	18 31	1 46	14 4	0 48	21 28	0 11	16 4	16 50	9 20	9 47	25 16		n.a.
T 14	7 51	28 10	5 2	3 56	2 36	9 35	1 21	6 10	0 22	23 6	0 9	18 31	1 46	14 4	0 48	21 28	0 11	16 4	16 50	9 22	9 48	25 18		n.a.
F 15	8 13	28 25	4 43	3 49	2 43	9 12	1 23	6 28	0 21	23 8	0 9	18 30	1 46	14 4	0 48	21 28	0 11	16 3	16 50	9 24	9 49	25 19		n.a.
S 16	8 35	27 21	4 11	3 40	2 49	8 47	1 25	6 45	0 21	23 9	0 9	18 29	1 46	14 5	0 48	21 28	0 11	16 3	16 50	9 25	9 50	25 21		n.a.
S 17	8 57	24 57	3 27	3 28	2 54	8 23	1 28	7 2	0 20	23 10	0 9	18 29	1 46	14 5	0 48	21 27	0 11	16 3	16 50	9 25	9 52	25 23		n.a.
M18	9 19	21 20	2 32	3 14	2 59	7 58	1 30	7 19	0 19	23 11	0 9	18 28	1 46	14 5	0 48	21 27	0 11	16 2	16 50	9 25	9 53	25 24		n.a.
T 19	9 40	16 37	1 29	2 58	3 2	7 33	1 32	7 36	0 19	23 12	0 9	18 27	1 46	14 5	0 48	21 27	0 11	16 2	16 50	9 24	9 54	25 26		n.a.
W20	10 1	11 0	0 19	2 40	3 5	7 8	1 34	7 53	0 18	23 13	0 9	18 26	1 46	14 6	0 48	21 27	0 11	16 1	16 50	9 24	9 55	25 27		n.a.
T 21	10 22	4 41	0n54	2 20	3 7	6 43	1 36	8 9	0 18	23 14	0 9	18 26	1 46	14 6	0 47	21 27	0 11	16 1	16 51	9 24	9 56	25 29		n.a.
F 22	10 43	2n 4	2 7	1 58	3 9	6 17	1 38	8 26	0 17	23 16	0 9	18 25	1 46	14 6	0 47	21 27	0 11	16 1	16 51	9 25	9 58	25 30		n.a.
S 23	11 4	8 53	3 13	1 34	3 9	5 51	1 40	8 43	0 16	23 17	0 9	18 24	1 46	14 6	0 47	21 27	0 11	16 0	16 51	9 27	9 59	25 32		n.a.
S 24	11 25	15 22	4 7	1 8	3 9	5 25	1 41	8 59	0 16	23 18	0 10	18 23	1 46	14 7	0 47	21 27	0 11	16 0	16 51	9 29	10 0	25 33		n.a.
M25	11 45	21 1	4 45	0 40	3 8	4 59	1 43	9 16	0 15	23 19	0 10	18 22	1 46	14 7	0 47	21 27	0 11	16 0	16 51	9 32	10 1	25 35		n.a.
T 26	12 6	25 19	5 4	0 11	3 7	4 33	1 44	9 32	0 15	23 20	0 10	18 22	1 46	14 7	0 47	21 27	0 11	15 59	16 51	9 35	10 2	25 36		n.a.
W27	12 26	27 50	5 1	0n21	3 4	4 6	1 46	9 48	0 14	23 21	0 10	18 21	1 46	14 7	0 47	21 27	0 11	15 59	16 52	9 38	10 3	25 38		n.a.
T 28	12 46	28 21	4 38	0 53	3 2	3 39	1 47	10 4	0 13	23 22	0 10	18 20	1 46	14 7	0 47	21 27	0 11	15 59	16 52	9 40	10 5	25 39		n.a.
F 29	13 5	26 55	3 58	1 28	2 58	3 12	1 48	10 20	0 13	23 23	0 10	18 19	1 46	14 7	0 47	21 27	0 11	15 58	16 52	9 41	10 6	25 41		n.a.
S 30	13n25	23n50	3n 5	2n 4	2s54	2s45	1s49	10n36	0s12	23n24	0n10	18s18	1n46	14n 7	0n47	21s27	0s11	15s58	16s52	9s42	10s 7	25s42		n.a.

Julian Day Number = 1672569.5, Delta T = 03h19m46s
Ecliptic obliquity = 23°42'50, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'47, Lahiri = - 5°47'47 Julian Calendar 1 Apr. 134 BCE == Greg. Calendar 29 March 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

MAY 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 20 38	6♉11'07	11♌30	13♈13	28♓28	28♈27	19♊ 1	28°R20	24°R51	25♑34	28♓37	5°D14	4♓ 3	1♐32	n.a.	S 1
M 2	14 24 35	7° 8'30	24°41	14°39	29°38	29° 9	19°12	28♏16	24♌51	25°R34	28°38	5♓14	4° 0	1°38	n.a.	M 2
T 3	14 28 31	8° 5'51	7♍33	16° 8	0♈48	29°51	19°24	28°12	24°51	25°34	28°39	5°R15	3°57	1°45	n.a.	T 3
W 4	14 32 28	9° 3'12	20°10	17°40	1°58	0♉33	19°35	28° 8	24°51	25°34	28°40	5°13	3°54	1°52	n.a.	W 4
T 5	14 36 25	10° 0'31	2♎33	19°15	3° 8	1°15	19°47	28° 4	24°51	25°33	28°41	5°10	3°51	1°58	n.a.	T 5
F 6	14 40 21	10°57'48	14°48	20°52	4°18	1°57	19°59	28° 0	24°D51	25°33	28°43	5° 4	3°47	2° 5	n.a.	F 6
S 7	14 44 18	11°55'05	26°55	22°31	5°28	2°39	20°11	27°56	24°51	25°33	28°44	4°56	3°44	2°12	n.a.	S 7
S 8	14 48 14	12°52'21	8♏56	24°13	6°38	3°21	20°22	27°52	24°51	25°33	28°45	4°45	3°41	2°19	n.a.	S 8
M 9	14 52 11	13°49'37	20°52	25°57	7°48	4° 3	20°34	27°48	24°51	25°33	28°46	4°33	3°38	2°25	n.a.	M 9
T 10	14 56 7	14°46'51	2♐46	27°44	8°59	4°45	20°46	27°44	24°51	25°33	28°47	4°21	3°35	2°32	n.a.	T 10
W11	15 0 4	15°44'05	14°38	29°34	10° 9	5°26	20°58	27°39	24°51	25°32	28°48	4° 9	3°32	2°39	n.a.	W11
T 12	15 4 0	16°41'18	26°31	1♑26	11°20	6° 8	21°10	27°35	24°52	25°32	28°49	3°58	3°28	2°46	n.a.	T 12
F 13	15 7 57	17°38'31	8♑27	3°20	12°30	6°50	21°22	27°31	24°52	25°32	28°50	3°50	3°25	2°52	n.a.	F 13
S 14	15 11 54	18°35'43	20°29	5°17	13°41	7°31	21°35	27°26	24°52	25°31	28°51	3°44	3°22	2°59	n.a.	S 14
S 15	15 15 50	19°32'55	2♒41	7°15	14°51	8°13	21°47	27°22	24°53	25°31	28°52	3°41	3°19	3° 6	n.a.	S 15
M16	15 19 47	20°30'07	15° 7	9°16	16° 2	8°54	21°59	27°18	24°53	25°30	28°53	3°40	3°16	3°12	n.a.	M16
T 17	15 23 43	21°27'18	27°52	11°19	17°13	9°36	22°11	27°13	24°54	25°30	28°54	3°40	3°12	3°19	n.a.	T 17
W18	15 27 40	22°24'29	11♓ 0	13°24	18°23	10°17	22°24	27° 9	24°54	25°29	28°55	3°40	3° 9	3°26	n.a.	W18
T 19	15 31 36	23°21'40	24°36	15°30	19°34	10°58	22°36	27° 5	24°55	25°29	28°55	3°39	3° 6	3°33	n.a.	T 19
F 20	15 35 33	24°18'50	8♈40	17°38	20°45	11°39	22°49	27° 0	24°56	25°28	28°56	3°35	3° 3	3°39	n.a.	F 20
S 21	15 39 30	25°16'00	23°13	19°47	21°56	12°21	23° 1	26°56	24°56	25°28	28°57	3°29	3° 0	3°46	n.a.	S 21
S 22	15 43 26	26°13'11	8♉10	21°57	23° 7	13° 2	23°14	26°51	24°57	25°27	28°58	3°21	2°57	3°53	n.a.	S 22
M23	15 47 23	27°10'21	23°23	24° 8	24°18	13°43	23°26	26°47	24°58	25°26	28°59	3°11	2°53	4° 0	n.a.	M23
T 24	15 51 19	28° 7'30	8♊42	26°19	25°29	14°24	23°39	26°43	24°59	25°26	29° 0	3° 0	2°50	4° 6	n.a.	T 24
W25	15 55 16	29° 4'40	23°55	28°31	26°40	15° 5	23°52	26°38	25° 0	25°25	29° 0	2°50	2°47	4°13	n.a.	W25
T 26	15 59 12	0♊ 1'49	8♋52	0♊42	27°51	15°46	24° 4	26°34	25° 1	25°24	29° 1	2°42	2°44	4°20	n.a.	T 26
F 27	16 3 9	0°58'57	23°25	2°52	29° 3	16°27	24°17	26°29	25° 2	25°24	29° 2	2°36	2°41	4°26	n.a.	F 27
S 28	16 7 5	1°56'05	7♌31	5° 2	0♉14	17° 8	24°30	26°25	25° 3	25°23	29° 3	2°33	2°38	4°33	n.a.	S 28
S 29	16 11 2	2°53'13	21° 8	7°12	1°25	17°49	24°43	26°21	25° 4	25°22	29° 4	2°32	2°34	4°40	n.a.	S 29
M30	16 14 59	3°50'20	4♍19	9°20	2°37	18°30	24°56	26°16	25° 5	25°21	29° 4	2°31	2°31	4°47	n.a.	M30
T 31	16 18 55	4♊47'27	17♍ 8	11♊27	3♉48	19♉10	25♊ 8	26♏12	25♌ 7	25♑20	29♓ 5	2♓31	2♓28	4♐53	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	13n44	19n30	2n 3	2n41	2s49	2s18	1s50	10n52	0s12	23n25	0n10	18s17	1n46	14n 7	0n47	21s27	0s11	15s58	16s52	9s42	10s 8	25s44			n.a.
M 2	14 3	14 19	0 56	3 20	2 44	1 51	1 51	11 8	0 11	23 26	0 10	18 16	1 46	14 7	0 47	21 27	0 11	15 58	16 53	9 42	10 9	25 45			n.a.
T 3	14 22	8 39	0s12	4 0	2 38	1 23	1 52	11 23	0 10	23 27	0 10	18 16	1 46	14 7	0 47	21 27	0 11	15 57	16 53	9 42	10 10	25 47			n.a.
W 4	14 41	2 44	1 19	4 41	2 31	0 56	1 53	11 39	0 10	23 28	0 10	18 15	1 46	14 7	0 47	21 27	0 11	15 57	16 53	9 42	10 12	25 48			n.a.
T 5	14 59	3s10	2 20	5 24	2 24	0 28	1 53	11 54	0 9	23 29	0 10	18 14	1 46	14 7	0 47	21 27	0 11	15 57	16 53	9 43	10 13	25 50			n.a.
F 6	15 17	8 52	3 14	6 7	2 17	0 1	1 54	12 9	0 8	23 30	0 11	18 13	1 46	14 7	0 47	21 27	0 11	15 57	16 53	9 45	10 14	25 51			n.a.
S 7	15 35	14 11	3 58	6 52	2 9	0n27	1 54	12 25	0 8	23 31	0 11	18 12	1 46	14 7	0 47	21 27	0 11	15 56	16 54	9 49	10 15	25 52			n.a.
S 8	15 53	18 55	4 32	7 38	2 0	0 55	1 55	12 40	0 7	23 32	0 11	18 11	1 46	14 7	0 47	21 27	0 11	15 56	16 54	9 53	10 16	25 54			n.a.
M 9	16 10	22 52	4 53	8 25	1 52	1 22	1 55	12 55	0 7	23 33	0 11	18 10	1 46	14 7	0 47	21 27	0 11	15 56	16 54	9 57	10 17	25 55			n.a.
T 10	16 27	25 52	5 1	9 12	1 42	1 50	1 55	13 9	0 6	23 34	0 11	18 9	1 46	14 7	0 47	21 27	0 11	15 56	16 54	10 2	10 19	25 57			n.a.
W11	16 44	27 43	4 56	10 0	1 33	2 18	1 55	13 24	0 5	23 35	0 11	18 8	1 46	14 7	0 47	21 28	0 11	15 56	16 55	10 6	10 20	25 58			n.a.
T 12	17 1	28 18	4 39	10 49	1 23	2 46	1 55	13 39	0 5	23 36	0 11	18 7	1 46	14 7	0 47	21 28	0 11	15 55	16 55	10 10	10 21	25 59			n.a.
F 13	17 17	27 35	4 9	11 38	1 12	3 14	1 55	13 53	0 4	23 37	0 11	18 6	1 46	14 7	0 47	21 28	0 11	15 55	16 55	10 13	10 22	26 1			n.a.
S 14	17 33	25 33	3 27	12 28	1 2	3 42	1 55	14 7	0 3	23 38	0 11	18 5	1 46	14 7	0 47	21 28	0 11	15 55	16 55	10 15	10 23	26 2			n.a.
S 15	17 49	22 19	2 36	13 17	0 51	4 9	1 55	14 22	0 3	23 39	0 11	18 5	1 46	14 6	0 47	21 28	0 11	15 55	16 56	10 16	10 24	26 4			n.a.
M16	18 5	18 1	1 37	14 7	0 40	4 37	1 55	14 36	0 2	23 39	0 11	18 4	1 46	14 6	0 46	21 28	0 11	15 55	16 56	10 17	10 25	26 5			n.a.
T 17	18 20	12 50	0 31	14 56	0 29	5 5	1 54	14 50	0 2	23 40	0 12	18 3	1 46	14 6	0 46	21 28	0 11	15 55	16 56	10 17	10 27	26 6			n.a.
W18	18 35	6 56	0n39	15 45	0 18	5 32	1 54	15 3	0 1	23 41	0 12	18 2	1 46	14 6	0 46	21 28	0 11	15 54	16 56	10 17	10 28	26 8			n.a.
T 19	18 50	0 31	1 48	16 34	0 7	6 0	1 53	15 17	0 0	23 42	0 12	18 1	1 46	14 6	0 46	21 28	0 11	15 54	16 57	10 17	10 29	26 9			n.a.
F 20	19 4	6n 8	2 54	17 21	0n 4	6 28	1 52	15 30	0n 0	23 43	0 12	18 0	1 46	14 5	0 46	21 28	0 11	15 54	16 57	10 18	10 30	26 10			n.a.
S 21	19 18	12 40	3 50	18 7	0 14	6 55	1 52	15 44	0 1	23 43	0 12	17 59	1 46	14 5	0 46	21 29	0 11	15 54	16 57	10 20	10 31	26 12			n.a.
S 22	19 32	18 40	4 32	18 52	0 25	7 22	1 51	15 57	0 1	23 44	0 12	17 58	1 46	14 5	0 46	21 29	0 11	15 54	16 57	10 24	10 32	26 13			n.a.
M23	19 45	23 36	4 56	19 35	0 35	7 49	1 50	16 10	0 2	23 45	0 12	17 57	1 46	14 4	0 46	21 29	0 11	15 54	16 58	10 27	10 34	26 14			n.a.
T 24	19 58	26 55	4 59	20 16	0 45	8 16	1 49	16 23	0 3	23 46	0 12	17 56	1 46	14 4	0 46	21 29	0 11	15 54	16 58	10 31	10 35	26 15			n.a.
W25	20 11	28 14	4 40	20 56	0 54	8 43	1 48	16 36	0 3	23 46	0 12	17 55	1 46	14 4	0 46	21 29	0 11	15 54	16 58	10 35	10 36	26 17			n.a.
T 26	20 23	27 27	4 3	21 33	1 3	9 10	1 47	16 49	0 4	23 47	0 12	17 54	1 45	14 3	0 46	21 29	0 11	15 54	16 59	10 38	10 37	26 18			n.a.
F 27	20 35	24 47	3 11	22 8	1 11	9 37	1 46	17 1	0 5	23 48	0 12	17 53	1 45	14 3	0 46	21 29	0 11	15 54	16 59	10 40	10 38	26 19			n.a.
S 28	20 47	20 40	2 8	22 40	1 18	10 3	1 45	17 14	0 5	23 48	0 12	17 52	1 45	14 2	0 46	21 30	0 11	15 54	16 59	10 41	10 39	26 21			n.a.
S 29	20 59	15 34	1 0	23 10	1 25	10 29	1 43	17 26	0 6	23 49	0 13	17 51	1 45	14 2	0 46	21 30	0 11	15 54	17 0	10 42	10 41	26 22			n.a.
M30	21 10	9 53	0s10	23 37	1 32	10 55	1 42	17 38	0 6	23 50	0 13	17 50	1 45	14 2	0 46	21 30	0 11	15 54	17 0	10 42	10 42	26 23			n.a.
T 31	21n20	3n58	1s16	24n 1	1n37	11n21	1s41	17n50	0n 7	23n50	0n13	17s49	1n45	14n 1	0n46	21s30	0s11	15s54	17s 0	10s42	10s43	26s24			n.a.

Julian Day Number = 1672599.5, Delta T = 03h19m45s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'43, Lahiri = - 5°47'43 Julian Calendar 1 May 134 BCE == Greg. Calendar 28 Apr. 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

JUNE 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 22 52	5♊44'33	29♍38	13♊32	4♉59	19♉51	25♊21	26°R 8	25♌ 8	25°R19	29♓ 6	2°R30	2♓25	5♐ 0	n.a.	W 1
T 2	16 26 48	6°41'39	11♎55	15°36	6°11	20°32	25°34	26♏ 3	25° 9	25♑19	29° 6	2♓26	2°22	5° 7	n.a.	T 2
F 3	16 30 45	7°38'45	24° 1	17°38	7°22	21°12	25°47	25°59	25°11	25°18	29° 7	2°20	2°18	5°13	n.a.	F 3
S 4	16 34 41	8°35'51	6♏ 0	19°38	8°34	21°53	26° 0	25°55	25°12	25°17	29° 7	2°11	2°15	5°20	n.a.	S 4
S 5	16 38 38	9°32'56	17°55	21°37	9°45	22°33	26°13	25°51	25°14	25°16	29° 8	1°59	2°12	5°27	n.a.	S 5
M 6	16 42 34	10°30'02	29°48	23°34	10°57	23°14	26°26	25°46	25°15	25°15	29° 9	1°46	2° 9	5°34	n.a.	M 6
T 7	16 46 31	11°27'08	11♐41	25°29	12° 9	23°54	26°39	25°42	25°17	25°14	29° 9	1°32	2° 6	5°40	n.a.	T 7
W 8	16 50 28	12°24'14	23°34	27°22	13°20	24°34	26°53	25°38	25°19	25°12	29°10	1°19	2° 3	5°47	n.a.	W 8
T 9	16 54 24	13°21'21	5♑31	29°13	14°32	25°15	27° 6	25°34	25°20	25°11	29°10	1° 8	1°59	5°54	n.a.	T 9
F 10	16 58 21	14°18'27	17°31	1♋ 2	15°44	25°55	27°19	25°30	25°22	25°10	29°11	0°59	1°56	6° 1	n.a.	F 10
S 11	17 2 17	15°15'34	29°38	2°49	16°56	26°35	27°32	25°26	25°24	25° 9	29°11	0°53	1°53	6° 7	n.a.	S 11
S 12	17 6 14	16°12'42	11♒54	4°34	18° 8	27°15	27°45	25°22	25°26	25° 8	29°12	0°49	1°50	6°14	n.a.	S 12
M13	17 10 10	17° 9'50	24°23	6°17	19°20	27°56	27°58	25°18	25°28	25° 7	29°12	0°48	1°47	6°21	n.a.	M13
T 14	17 14 7	18° 6'59	7♓ 8	7°58	20°32	28°36	28°12	25°14	25°30	25° 6	29°13	0°D48	1°44	6°27	n.a.	T 14
W15	17 18 4	19° 4'08	20°14	9°38	21°44	29°16	28°25	25°10	25°32	25° 4	29°13	0°R48	1°40	6°34	n.a.	W15
T 16	17 22 0	20° 1'18	3♈44	11°15	22°56	29°56	28°38	25° 7	25°34	25° 3	29°13	0°47	1°37	6°41	n.a.	T 16
F 17	17 25 57	20°58'29	17°40	12°50	24° 8	0♊36	28°51	25° 3	25°36	25° 2	29°14	0°45	1°34	6°48	n.a.	F 17
S 18	17 29 53	21°55'41	2♉ 3	14°24	25°20	1°16	29° 5	24°59	25°38	25° 0	29°14	0°40	1°31	6°54	n.a.	S 18
S 19	17 33 50	22°52'53	16°50	15°55	26°32	1°56	29°18	24°55	25°40	24°59	29°14	0°33	1°28	7° 1	n.a.	S 19
M20	17 37 46	23°50'06	1♊56	17°25	27°45	2°35	29°31	24°52	25°42	24°58	29°15	0°24	1°24	7° 8	n.a.	M20
T 21	17 41 43	24°47'21	17°10	18°52	28°57	3°15	29°44	24°48	25°44	24°57	29°15	0°14	1°21	7°15	n.a.	T 21
W22	17 45 39	25°44'36	2♋23	20°17	0♊ 9	3°55	29°58	24°45	25°47	24°55	29°15	0° 5	1°18	7°21	n.a.	W22
T 23	17 49 36	26°41'51	17°23	21°41	1°22	4°35	0♋11	24°41	25°49	24°54	29°15	29♒58	1°15	7°28	n.a.	T 23
F 24	17 53 33	27°39'07	2♌ 2	23° 2	2°34	5°14	0°24	24°38	25°51	24°52	29°16	29°53	1°12	7°35	n.a.	F 24
S 25	17 57 29	28°36'24	16°15	24°21	3°46	5°54	0°38	24°35	25°54	24°51	29°16	29°50	1° 9	7°41	n.a.	S 25
S 26	18 1 26	29°33'41	29°59	25°38	4°59	6°34	0°51	24°32	25°56	24°50	29°16	29°D49	1° 5	7°48	n.a.	S 26
M27	18 5 22	0♋30'58	13♍15	26°53	6°12	7°13	1° 4	24°29	25°59	24°48	29°16	29°50	1° 2	7°55	n.a.	M27
T 28	18 9 19	1°28'16	26° 7	28° 5	7°24	7°53	1°18	24°25	26° 1	24°47	29°16	29°R51	0°59	8° 2	n.a.	T 28
W29	18 13 15	2°25'35	8♎38	29°15	8°37	8°32	1°31	24°22	26° 4	24°45	29°16	29°50	0°56	8° 8	n.a.	W29
T 30	18 17 12	3♋22'54	20♎53	0♌23	9♊49	9♊11	1♋44	24♏19	26♌ 6	24♑44	29♓16	29♒49	0♓53	8♐15	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n31	1s58	2s18	24n22	1n42	11n47	1s39	18n 2	0n 8	23n51	0n13	17s48	1n45	14n 1	0n46	21s30	0s11	15s54	17s 0	10s42	10s44	26s26		n.a.
T 2	21 41	7 42	3 12	24 41	1 46	12 12	1 38	18 13	0 8	23 51	0 13	17 48	1 45	14 0	0 46	21 30	0 11	15 54	17 1	10 44	10 45	26 27		n.a.
F 3	21 50	13 4	3 56	24 57	1 50	12 37	1 36	18 25	0 9	23 52	0 13	17 47	1 45	14 0	0 46	21 31	0 12	15 54	17 1	10 46	10 46	26 28		n.a.
S 4	21 59	17 54	4 30	25 10	1 52	13 2	1 34	18 36	0 10	23 52	0 13	17 46	1 45	13 59	0 46	21 31	0 12	15 54	17 1	10 49	10 47	26 29		n.a.
S 5	22 8	22 1	4 51	25 21	1 54	13 26	1 33	18 47	0 10	23 53	0 13	17 45	1 44	13 58	0 46	21 31	0 12	15 54	17 2	10 53	10 49	26 30		n.a.
M 6	22 17	25 13	5 0	25 29	1 56	13 51	1 31	18 58	0 11	23 53	0 13	17 44	1 44	13 58	0 46	21 31	0 12	15 54	17 2	10 58	10 50	26 32		n.a.
T 7	22 25	27 19	4 55	25 35	1 57	14 15	1 29	19 9	0 11	23 54	0 13	17 43	1 44	13 57	0 46	21 31	0 12	15 54	17 2	11 3	10 51	26 33		n.a.
W 8	22 32	28 11	4 38	25 38	1 57	14 38	1 27	19 19	0 12	23 54	0 13	17 42	1 44	13 57	0 46	21 32	0 12	15 54	17 3	11 8	10 52	26 34		n.a.
T 9	22 40	27 44	4 8	25 39	1 56	15 2	1 25	19 30	0 13	23 54	0 14	17 41	1 44	13 56	0 45	21 32	0 12	15 54	17 3	11 12	10 53	26 35		n.a.
F 10	22 47	25 59	3 28	25 37	1 55	15 25	1 23	19 40	0 13	23 55	0 14	17 41	1 44	13 55	0 45	21 32	0 12	15 54	17 3	11 15	10 54	26 36		n.a.
S 11	22 53	23 1	2 37	25 34	1 53	15 47	1 21	19 50	0 14	23 55	0 14	17 40	1 44	13 55	0 45	21 32	0 12	15 54	17 4	11 17	10 55	26 38		n.a.
S 12	22 59	18 59	1 38	25 28	1 50	16 10	1 19	20 0	0 15	23 55	0 14	17 39	1 44	13 54	0 45	21 33	0 12	15 55	17 4	11 18	10 57	26 39		n.a.
M13	23 5	14 5	0 34	25 21	1 47	16 32	1 17	20 10	0 15	23 56	0 14	17 38	1 43	13 53	0 45	21 33	0 12	15 55	17 4	11 19	10 58	26 40		n.a.
T 14	23 11	8 28	0n34	25 12	1 44	16 53	1 15	20 20	0 16	23 56	0 14	17 37	1 43	13 53	0 45	21 33	0 12	15 55	17 5	11 19	10 59	26 41		n.a.
W15	23 15	2 22	1 41	25 1	1 40	17 14	1 13	20 29	0 16	23 56	0 14	17 36	1 43	13 52	0 45	21 33	0 12	15 55	17 5	11 19	11 0	26 42		n.a.
T 16	23 20	4n 1	2 45	24 48	1 35	17 35	1 10	20 39	0 17	23 57	0 14	17 36	1 43	13 51	0 45	21 34	0 12	15 55	17 5	11 19	11 1	26 43		n.a.
F 17	23 24	10 25	3 42	24 34	1 30	17 55	1 8	20 48	0 18	23 57	0 14	17 35	1 43	13 51	0 45	21 34	0 12	15 55	17 6	11 20	11 2	26 44		n.a.
S 18	23 28	16 28	4 26	24 19	1 24	18 15	1 6	20 57	0 18	23 57	0 14	17 34	1 43	13 50	0 45	21 34	0 12	15 56	17 6	11 22	11 4	26 45		n.a.
S 19	23 31	21 45	4 54	24 3	1 18	18 35	1 3	21 5	0 19	23 57	0 15	17 33	1 43	13 49	0 45	21 34	0 12	15 56	17 6	11 24	11 5	26 47		n.a.
M20	23 34	25 43	5 3	23 45	1 11	18 53	1 1	21 14	0 19	23 57	0 15	17 33	1 42	13 48	0 45	21 35	0 12	15 56	17 7	11 27	11 6	26 48		n.a.
T 21	23 37	27 53	4 50	23 26	1 4	19 12	0 59	21 23	0 20	23 57	0 15	17 32	1 42	13 47	0 45	21 35	0 12	15 56	17 7	11 31	11 7	26 49		n.a.
W22	23 39	27 58	4 16	23 6	0 57	19 30	0 56	21 31	0 21	23 58	0 15	17 31	1 42	13 47	0 45	21 35	0 12	15 56	17 7	11 34	11 8	26 50		n.a.
T 23	23 40	25 58	3 26	22 45	0 49	19 47	0 54	21 39	0 21	23 58	0 15	17 31	1 42	13 46	0 45	21 35	0 12	15 57	17 8	11 37	11 9	26 51		n.a.
F 24	23 42	22 15	2 22	22 23	0 41	20 4	0 51	21 47	0 22	23 58	0 15	17 30	1 42	13 45	0 45	21 36	0 12	15 57	17 8	11 39	11 10	26 52		n.a.
S 25	23 42	17 17	1 12	22 1	0 32	20 21	0 49	21 54	0 23	23 58	0 15	17 29	1 42	13 44	0 45	21 36	0 12	15 57	17 9	11 40	11 12	26 53		n.a.
S 26	23 43	11 36	0s 1	21 38	0 23	20 37	0 46	22 2	0 23	23 58	0 15	17 29	1 41	13 43	0 45	21 36	0 12	15 57	17 9	11 40	11 13	26 54		n.a.
M27	23 43	5 34	1 11	21 15	0 14	20 52	0 44	22 9	0 24	23 58	0 15	17 28	1 41	13 42	0 45	21 36	0 12	15 58	17 9	11 40	11 14	26 55		n.a.
T 28	23 42	0s31	2 16	20 51	0 4	21 7	0 41	22 16	0 24	23 58	0 15	17 28	1 41	13 41	0 45	21 37	0 12	15 58	17 10	11 39	11 15	26 56		n.a.
W29	23 41	6 24	3 12	20 26	0s 6	21 21	0 39	22 23	0 25	23 58	0 15	17 27	1 41	13 41	0 45	21 37	0 12	15 58	17 10	11 39	11 16	26 57		n.a.
T 30	23n40	11s55	3s58	20n 2	0s17	21n35	0s36	22n30	0n26	23n58	0n16	17s27	1n41	13n40	0n45	21s37	0s12	15s58	17s10	11s40	11s17	26s58		n.a.

Julian Day Number = 1672630.5, Delta T = 03h19m44s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'39, Lahiri = - 5°47'38 Julian Calendar 1 June 134 BCE == Greg. Calendar 29 May 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

JULY 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 21 8	4♋20'14	2♏56	1♌28	11♊ 2	9♊51	1♋58	24°R17	26♌ 9	24°R42	29♓16	29°R45	0♓50	8♐22	n.a.	F 1
S 2	18 25 5	5°17'34	14°53	2°30	12°15	10°30	2°11	24♏14	26°12	24♉41	29°16	29♒39	0°46	8°29	n.a.	S 2
S 3	18 29 2	6°14'56	26°45	3°29	13°28	11° 9	2°24	24°11	26°15	24°39	29°R16	29°31	0°43	8°35	n.a.	S 3
M 4	18 32 58	7°12'18	8♐38	4°26	14°41	11°48	2°37	24° 9	26°17	24°38	29°16	29°22	0°40	8°42	n.a.	M 4
T 5	18 36 55	8° 9'42	20°32	5°20	15°53	12°28	2°51	24° 6	26°20	24°36	29°16	29°12	0°37	8°49	n.a.	T 5
W 6	18 40 51	9° 7'06	2♑30	6°10	17° 6	13° 7	3° 4	24° 3	26°23	24°34	29°16	29° 3	0°34	8°55	n.a.	W 6
T 7	18 44 48	10° 4'31	14°33	6°58	18°19	13°46	3°17	24° 1	26°26	24°33	29°16	28°55	0°30	9° 2	n.a.	T 7
F 8	18 48 44	11° 1'58	26°43	7°42	19°32	14°25	3°31	23°59	26°29	24°31	29°16	28°49	0°27	9° 9	n.a.	F 8
S 9	18 52 41	11°59'26	9♒ 1	8°22	20°45	15° 4	3°44	23°57	26°32	24°30	29°16	28°45	0°24	9°16	n.a.	S 9
S 10	18 56 38	12°56'55	21°29	8°58	21°58	15°43	3°57	23°54	26°35	24°28	29°16	28°43	0°21	9°22	n.a.	S 10
M11	19 0 34	13°54'25	4♓ 8	9°31	23°12	16°22	4°10	23°52	26°38	24°27	29°16	28°D43	0°18	9°29	n.a.	M11
T 12	19 4 31	14°51'57	17° 2	9°59	24°25	17° 1	4°23	23°50	26°41	24°25	29°16	28°44	0°15	9°36	n.a.	T 12
W13	19 8 27	15°49'30	0♈12	10°23	25°38	17°40	4°37	23°48	26°44	24°23	29°15	28°45	0°11	9°42	n.a.	W13
T 14	19 12 24	16°47'05	13°41	10°42	26°51	18°18	4°50	23°47	26°47	24°22	29°15	28°R46	0° 8	9°49	n.a.	T 14
F 15	19 16 20	17°44'41	27°32	10°56	28° 5	18°57	5° 3	23°45	26°50	24°20	29°15	28°45	0° 5	9°56	n.a.	F 15
S 16	19 20 17	18°42'20	11♉43	11° 5	29°18	19°36	5°16	23°43	26°53	24°18	29°15	28°43	0° 2	10° 3	n.a.	S 16
S 17	19 24 13	19°40'00	26°14	11°R 9	0♋31	20°15	5°29	23°42	26°56	24°17	29°14	28°40	29♒59	10° 9	n.a.	S 17
M18	19 28 10	20°37'41	11♊ 1	11° 8	1°45	20°53	5°42	23°40	26°59	24°15	29°14	28°35	29°56	10°16	n.a.	M18
T 19	19 32 7	21°35'25	25°57	11° 1	2°58	21°32	5°55	23°39	27° 3	24°14	29°14	28°30	29°52	10°23	n.a.	T 19
W20	19 36 3	22°33'10	10♋53	10°48	4°12	22°10	6° 8	23°38	27° 6	24°12	29°13	28°24	29°49	10°30	n.a.	W20
T 21	19 40 0	23°30'56	25°42	10°30	5°25	22°49	6°21	23°37	27° 9	24°10	29°13	28°20	29°46	10°36	n.a.	T 21
F 22	19 43 56	24°28'44	10♌15	10° 6	6°39	23°27	6°34	23°35	27°12	24° 9	29°13	28°17	29°43	10°43	n.a.	F 22
S 23	19 47 53	25°26'34	24°26	9°36	7°53	24° 6	6°47	23°35	27°16	24° 7	29°12	28°D16	29°40	10°50	n.a.	S 23
S 24	19 51 49	26°24'24	8♍12	9° 2	9° 6	24°44	7° 0	23°34	27°19	24° 5	29°12	28°16	29°36	10°56	n.a.	S 24
M25	19 55 46	27°22'16	21°32	8°22	10°20	25°23	7°13	23°33	27°23	24° 4	29°11	28°18	29°33	11° 3	n.a.	M25
T 26	19 59 42	28°20'10	4♎28	7°37	11°34	26° 1	7°26	23°32	27°26	24° 2	29°11	28°19	29°30	11°10	n.a.	T 26
W27	20 3 39	29°18'04	17° 2	6°49	12°48	26°39	7°39	23°32	27°29	24° 0	29°11	28°21	29°27	11°17	n.a.	W27
T 28	20 7 36	0♌16'01	29°19	5°57	14° 2	27°17	7°51	23°31	27°33	23°59	29°10	28°R21	29°24	11°23	n.a.	T 28
F 29	20 11 32	1°13'58	11♏24	5° 3	15°15	27°56	8° 4	23°31	27°36	23°57	29°10	28°21	29°21	11°30	n.a.	F 29
S 30	20 15 29	2°11'57	23°21	4° 8	16°29	28°34	8°17	23°30	27°40	23°56	29° 9	28°19	29°17	11°37	n.a.	S 30
S 31	20 19 25	3♌ 9'58	5♐13	3♌12	17♋43	29♊12	8♋30	23♏30	27♌43	23♉54	29♓ 8	28♒16	29♒14	11♐43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	23n38	16s54	4s33	19n37	0s27	21n48	0s33	22n37	0n26	23n58	0n16	17s26	1n41	13n39	0n45	21s38	0s12	15s59	17s11	11s41	11s18	26s59		n.a.	F 1
S 2	23 36	21 11	4 55	19 13	0 38	22 1	0 31	22 43	0 27	23 57	0 16	17 25	1 40	13 38	0 45	21 38	0 12	15 59	17 11	11 43	11 19	27 0		n.a.	S 2
S 3	23 34	24 35	5 5	18 48	0 49	22 13	0 28	22 49	0 28	23 57	0 16	17 25	1 40	13 37	0 45	21 38	0 12	15 59	17 11	11 46	11 21	27 1		n.a.	S 3
M 4	23 31	26 57	5 1	18 23	1 1	22 24	0 26	22 56	0 28	23 57	0 16	17 25	1 40	13 36	0 45	21 38	0 12	16 0	17 12	11 50	11 22	27 2		n.a.	M 4
T 5	23 28	28 6	4 45	17 59	1 12	22 35	0 23	23 1	0 29	23 57	0 16	17 24	1 40	13 35	0 45	21 39	0 12	16 0	17 12	11 53	11 23	27 3		n.a.	T 5
W 6	23 24	27 57	4 16	17 35	1 24	22 45	0 20	23 7	0 29	23 57	0 16	17 24	1 40	13 34	0 45	21 39	0 12	16 0	17 12	11 56	11 24	27 4		n.a.	W 6
T 7	23 20	26 28	3 35	17 12	1 36	22 54	0 18	23 13	0 30	23 57	0 16	17 23	1 39	13 33	0 45	21 39	0 12	16 1	17 13	11 59	11 25	27 5		n.a.	T 7
F 8	23 15	23 44	2 44	16 49	1 48	23 3	0 15	23 18	0 31	23 56	0 16	17 23	1 39	13 32	0 45	21 40	0 12	16 1	17 13	12 1	11 26	27 6		n.a.	F 8
S 9	23 10	19 53	1 44	16 27	2 0	23 11	0 12	23 23	0 31	23 56	0 17	17 23	1 39	13 31	0 45	21 40	0 12	16 1	17 13	12 3	11 27	27 7		n.a.	S 9
S 10	23 4	15 7	0 39	16 6	2 12	23 18	0 10	23 28	0 32	23 56	0 17	17 22	1 39	13 30	0 44	21 40	0 12	16 2	17 14	12 3	11 29	27 8		n.a.	S 10
M11	22 59	9 39	0n29	15 45	2 24	23 25	0 7	23 33	0 32	23 56	0 17	17 22	1 39	13 29	0 44	21 40	0 12	16 2	17 14	12 3	11 30	27 9		n.a.	M11
T 12	22 52	3 41	1 38	15 26	2 36	23 31	0 4	23 37	0 33	23 55	0 17	17 22	1 38	13 28	0 44	21 41	0 12	16 2	17 14	12 3	11 31	27 10		n.a.	T 12
W13	22 46	2n33	2 42	15 8	2 49	23 37	0 2	23 42	0 34	23 55	0 17	17 21	1 38	13 26	0 44	21 41	0 12	16 3	17 15	12 3	11 32	27 11		n.a.	W13
T 14	22 39	8 49	3 39	14 52	3 0	23 41	0n 1	23 46	0 34	23 54	0 17	17 21	1 38	13 25	0 44	21 41	0 12	16 3	17 15	12 2	11 33	27 11		n.a.	T 14
F 15	22 31	14 50	4 25	14 37	3 12	23 45	0 3	23 50	0 35	23 54	0 17	17 21	1 38	13 24	0 44	21 42	0 12	16 4	17 15	12 2	11 34	27 12		n.a.	F 15
S 16	22 23	20 13	4 57	14 23	3 23	23 49	0 6	23 53	0 36	23 54	0 17	17 21	1 38	13 23	0 44	21 42	0 12	16 4	17 16	12 3	11 35	27 13		n.a.	S 16
S 17	22 15	24 33	5 10	14 12	3 34	23 51	0 9	23 57	0 36	23 53	0 17	17 20	1 37	13 22	0 44	21 42	0 12	16 4	17 16	12 4	11 36	27 14		n.a.	S 17
M18	22 7	27 21	5 3	14 2	3 45	23 53	0 11	24 0	0 37	23 53	0 17	17 20	1 37	13 21	0 44	21 43	0 12	16 5	17 16	12 6	11 38	27 15		n.a.	M18
T 19	21 58	28 14	4 35	13 55	3 54	23 54	0 14	24 4	0 37	23 52	0 18	17 20	1 37	13 20	0 44	21 43	0 12	16 5	17 17	12 8	11 39	27 16		n.a.	T 19
W20	21 48	27 4	3 49	13 49	4 3	23 55	0 16	24 7	0 38	23 52	0 18	17 20	1 37	13 19	0 44	21 43	0 12	16 6	17 17	12 10	11 40	27 17		n.a.	W20
T 21	21 38	24 0	2 48	13 46	4 11	23 55	0 19	24 10	0 39	23 51	0 18	17 20	1 37	13 17	0 44	21 44	0 12	16 6	17 17	12 11	11 41	27 18		n.a.	T 21
F 22	21 28	19 26	1 37	13 46	4 18	23 54	0 21	24 12	0 39	23 51	0 18	17 20	1 36	13 16	0 44	21 44	0 12	16 7	17 18	12 12	11 42	27 18		n.a.	F 22
S 23	21 18	13 51	0 21	13 48	4 24	23 52	0 23	24 15	0 40	23 50	0 18	17 20	1 36	13 15	0 44	21 44	0 12	16 7	17 18	12 13	11 43	27 19		n.a.	S 23
S 24	21 7	7 45	0s54	13 53	4 29	23 50	0 26	24 17	0 40	23 50	0 18	17 20	1 36	13 14	0 44	21 44	0 12	16 7	17 18	12 13	11 44	27 20		n.a.	S 24
M25	20 55	1 30	2 4	14 0	4 32	23 46	0 28	24 19	0 41	23 49	0 18	17 20	1 36	13 13	0 44	21 45	0 12	16 8	17 19	12 12	11 45	27 21		n.a.	M25
T 26	20 44	4s37	3 5	14 10	4 33	23 43	0 31	24 21	0 42	23 48	0 18	17 20	1 35	13 12	0 44	21 45	0 12	16 8	17 19	12 12	11 47	27 22		n.a.	T 26
W27	20 32	10 23	3 56	14 23	4 33	23 38	0 33	24 23	0 42	23 48	0 18	17 20	1 35	13 10	0 44	21 45	0 12	16 9	17 19	12 11	11 48	27 22		n.a.	W27
T 28	20 19	15 37	4 34	14 37	4 31	23 33	0 35	24 24	0 43	23 47	0 19	17 20	1 35	13 9	0 44	21 46	0 12	16 9	17 20	12 11	11 49	27 23		n.a.	T 28
F 29	20 7	20 10	5 0	14 54	4 27	23 27	0 37	24 25	0 44	23 47	0 19	17 20	1 35	13 8	0 44	21 46	0 12	16 10	17 20	12 11	11 50	27 24		n.a.	F 29
S 30	19 54	23 51	5 12	15 13	4 21	23 20	0 40	24 26	0 44	23 46	0 19	17 20	1 35	13 7	0 44	21 46	0 12	16 10	17 20	12 12	11 51	27 25		n.a.	S 30
S 31	19n40	26s31	5s11	15n34	4s13	23n13	0n42	24n27	0n45	23n45	0n19	17s20	1n34	13n 5	0n44	21s47	0s12	16s11	17s20	12s13	11s52	27s26		n.a.	S 31

Julian Day Number = 1672660.5, Delta T = 03h19m43s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'35, Lahiri = - 5°47'34 Julian Calendar 1 July 134 BCE == Greg. Calendar 28 June 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

AUGUST 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 23 22	4♌ 8'00	17♐ 6	2°R17	18♋57	29♊50	8♋42	23°R30	27♌47	23°R52	29°R 8	28°R13	29♒11	11♐50	n.a.	M 1
T 2	20 27 18	5° 6'04	29° 3	1♌25	20°11	0♋28	8°55	23°D30	27°50	23♑51	29♓ 7	28♒ 9	29° 8	11°57	n.a.	T 2
W 3	20 31 15	6° 4'09	11♑ 7	0°35	21°25	1° 6	9° 7	23♏30	27°54	23°49	29° 7	28° 5	29° 5	12° 4	n.a.	W 3
T 4	20 35 11	7° 2'16	23°19	29♋51	22°39	1°44	9°20	23°30	27°58	23°48	29° 6	28° 2	29° 2	12°10	n.a.	T 4
F 5	20 39 8	8° 0'25	5♒41	29°11	23°54	2°22	9°32	23°30	28° 1	23°46	29° 5	28° 0	28°58	12°17	n.a.	F 5
S 6	20 43 5	8°58'35	18°15	28°38	25° 8	2°59	9°45	23°31	28° 5	23°44	29° 5	27°59	28°55	12°24	n.a.	S 6
S 7	20 47 1	9°56'47	1♓ 1	28°13	26°22	3°37	9°57	23°31	28° 8	23°43	29° 4	27°D58	28°52	12°31	n.a.	S 7
M 8	20 50 58	10°55'02	13°59	27°55	27°36	4°15	10° 9	23°32	28°12	23°41	29° 3	27°59	28°49	12°37	n.a.	M 8
T 9	20 54 54	11°53'18	27°11	27°46	28°50	4°53	10°22	23°32	28°16	23°40	29° 3	28° 0	28°46	12°44	n.a.	T 9
W10	20 58 51	12°51'36	10♈36	27°D45	0♌ 5	5°30	10°34	23°33	28°19	23°38	29° 2	28° 1	28°42	12°51	n.a.	W10
T 11	21 2 47	13°49'57	24°15	27°53	1°19	6° 8	10°46	23°34	28°23	23°37	29° 1	28° 2	28°39	12°57	n.a.	T 11
F 12	21 6 44	14°48'20	8♉ 8	28°11	2°33	6°46	10°58	23°35	28°27	23°35	29° 0	28° 3	28°36	13° 4	n.a.	F 12
S 13	21 10 40	15°46'45	22°13	28°37	3°48	7°23	11°10	23°36	28°31	23°34	29° 0	28°R 3	28°33	13°11	n.a.	S 13
S 14	21 14 37	16°45'12	6♊31	29°12	5° 2	8° 1	11°22	23°37	28°34	23°32	28°59	28° 2	28°30	13°18	n.a.	S 14
M15	21 18 34	17°43'42	20°56	29°56	6°17	8°38	11°34	23°38	28°38	23°31	28°58	28° 1	28°27	13°24	n.a.	M15
T 16	21 22 30	18°42'14	5♋27	0♌47	7°31	9°16	11°46	23°40	28°42	23°29	28°57	28° 0	28°23	13°31	n.a.	T 16
W17	21 26 27	19°40'48	19°58	1°47	8°46	9°53	11°58	23°41	28°45	23°28	28°56	27°59	28°20	13°38	n.a.	W17
T 18	21 30 23	20°39'25	4♌22	2°53	10° 1	10°30	12° 9	23°43	28°49	23°26	28°56	27°59	28°17	13°44	n.a.	T 18
F 19	21 34 20	21°38'03	18°36	4° 6	11°15	11° 8	12°21	23°44	28°53	23°25	28°55	27°58	28°14	13°51	n.a.	F 19
S 20	21 38 16	22°36'44	2♍33	5°25	12°30	11°45	12°33	23°46	28°57	23°24	28°54	27°D58	28°11	13°58	n.a.	S 20
S 21	21 42 13	23°35'26	16°11	6°49	13°45	12°22	12°44	23°48	29° 1	23°22	28°53	27°58	28° 8	14° 5	n.a.	S 21
M22	21 46 9	24°34'10	29°28	8°18	14°59	12°59	12°56	23°50	29° 4	23°21	28°52	27°59	28° 4	14°11	n.a.	M22
T 23	21 50 6	25°32'57	12♎24	9°51	16°14	13°37	13° 7	23°52	29° 8	23°20	28°51	27°59	28° 1	14°18	n.a.	T 23
W24	21 54 3	26°31'45	25° 0	11°28	17°29	14°14	13°18	23°54	29°12	23°18	28°50	27°59	27°58	14°25	n.a.	W24
T 25	21 57 59	27°30'35	7♏20	13° 7	18°44	14°51	13°30	23°56	29°16	23°17	28°49	27°59	27°55	14°31	n.a.	T 25
F 26	22 1 56	28°29'27	19°26	14°50	19°58	15°28	13°41	23°58	29°19	23°16	28°48	27°R59	27°52	14°38	n.a.	F 26
S 27	22 5 52	29°28'21	1♐24	16°34	21°13	16° 5	13°52	24° 1	29°23	23°15	28°47	27°D59	27°48	14°45	n.a.	S 27
S 28	22 9 49	0♍27'16	13°17	18°19	22°28	16°41	14° 3	24° 3	29°27	23°13	28°46	27°59	27°45	14°52	n.a.	S 28
M29	22 13 45	1°26'14	25°10	20° 6	23°43	17°18	14°14	24° 6	29°31	23°12	28°45	28° 0	27°42	14°58	n.a.	M29
T 30	22 17 42	2°25'13	7♑ 9	21°54	24°58	17°55	14°25	24° 8	29°35	23°11	28°44	28° 0	27°39	15° 5	n.a.	T 30
W31	22 21 38	3♍24'14	19♑16	23♌42	26♌13	18♋32	14♋35	24♏11	29♌38	23♑10	28♓43	28♒ 1	27♒36	15♐12	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	19n27	28s 0	4s57	15n56	4s 3	23n 5	0n44	24n28	0n45	23n44	0n19	17s21	1n34	13n 4	0n44	21s47	0s12	16s11	17s21	12s14	11s53	27s26			n.a.
T 2	19 13	28 12	4 29	16 19	3 51	22 56	0 46	24 29	0 46	23 44	0 19	17 21	1 34	13 3	0 44	21 47	0 12	16 12	17 21	12 15	11 54	27 27			n.a.
W 3	18 58	27 3	3 50	16 42	3 38	22 47	0 48	24 29	0 47	23 43	0 19	17 21	1 34	13 2	0 44	21 47	0 12	16 12	17 21	12 16	11 56	27 28			n.a.
T 4	18 43	24 37	2 59	17 6	3 23	22 36	0 50	24 29	0 47	23 42	0 19	17 21	1 33	13 0	0 44	21 48	0 12	16 13	17 22	12 18	11 57	27 29			n.a.
F 5	18 28	21 0	2 0	17 30	3 7	22 26	0 52	24 29	0 48	23 41	0 20	17 22	1 33	12 59	0 44	21 48	0 12	16 13	17 22	12 18	11 58	27 29			n.a.
S 6	18 13	16 23	0 53	17 53	2 50	22 14	0 54	24 29	0 49	23 41	0 20	17 22	1 33	12 58	0 44	21 48	0 12	16 14	17 22	12 19	11 59	27 30			n.a.
S 7	17 57	10 59	0n17	18 16	2 33	22 2	0 56	24 29	0 49	23 40	0 20	17 22	1 33	12 57	0 44	21 49	0 12	16 14	17 22	12 19	12 0	27 31			n.a.
M 8	17 42	5 2	1 27	18 37	2 14	21 49	0 58	24 28	0 50	23 39	0 20	17 23	1 33	12 55	0 44	21 49	0 12	16 15	17 23	12 19	12 1	27 31			n.a.
T 9	17 25	1n13	2 34	18 57	1 56	21 36	0 59	24 28	0 50	23 38	0 20	17 23	1 32	12 54	0 44	21 49	0 12	16 15	17 23	12 18	12 2	27 32			n.a.
W10	17 9	7 31	3 34	19 16	1 37	21 22	1 1	24 27	0 51	23 37	0 20	17 23	1 32	12 53	0 44	21 49	0 12	16 16	17 23	12 18	12 3	27 33			n.a.
T 11	16 52	13 34	4 23	19 32	1 19	21 7	1 3	24 26	0 52	23 37	0 20	17 24	1 32	12 51	0 44	21 50	0 12	16 16	17 23	12 17	12 5	27 33			n.a.
F 12	16 35	19 3	4 57	19 46	1 1	20 51	1 4	24 24	0 52	23 36	0 20	17 24	1 32	12 50	0 44	21 50	0 12	16 17	17 24	12 17	12 6	27 34			n.a.
S 13	16 17	23 35	5 15	19 58	0 43	20 35	1 6	24 23	0 53	23 35	0 21	17 25	1 32	12 49	0 44	21 50	0 12	16 17	17 24	12 17	12 7	27 35			n.a.
S 14	16 0	26 47	5 13	20 8	0 26	20 19	1 7	24 21	0 53	23 34	0 21	17 25	1 31	12 47	0 44	21 50	0 13	16 18	17 24	12 17	12 8	27 35			n.a.
M15	15 42	28 15	4 51	20 14	0 10	20 2	1 9	24 20	0 54	23 33	0 21	17 26	1 31	12 46	0 44	21 51	0 13	16 19	17 24	12 18	12 9	27 36			n.a.
T 16	15 23	27 47	4 11	20 18	0n 6	19 44	1 10	24 18	0 55	23 32	0 21	17 26	1 31	12 45	0 44	21 51	0 13	16 19	17 25	12 18	12 10	27 37			n.a.
W17	15 5	25 26	3 15	20 19	0 20	19 25	1 12	24 16	0 55	23 31	0 21	17 27	1 31	12 43	0 44	21 51	0 13	16 20	17 25	12 19	12 11	27 37			n.a.
T 18	14 46	21 26	2 7	20 17	0 34	19 6	1 13	24 13	0 56	23 30	0 21	17 27	1 30	12 42	0 44	21 51	0 13	16 20	17 25	12 19	12 12	27 38			n.a.
F 19	14 27	16 15	0 52	20 12	0 46	18 47	1 14	24 11	0 57	23 29	0 21	17 28	1 30	12 41	0 44	21 52	0 13	16 21	17 25	12 19	12 13	27 39			n.a.
S 20	14 8	10 17	0s25	20 3	0 57	18 27	1 15	24 8	0 57	23 28	0 22	17 29	1 30	12 39	0 44	21 52	0 13	16 21	17 26	12 19	12 15	27 39			n.a.
S 21	13 49	3 59	1 39	19 52	1 7	18 6	1 16	24 5	0 58	23 27	0 22	17 29	1 30	12 38	0 44	21 52	0 13	16 22	17 26	12 19	12 16	27 40			n.a.
M22	13 29	2s19	2 46	19 37	1 16	17 45	1 17	24 2	0 58	23 26	0 22	17 30	1 30	12 37	0 44	21 52	0 13	16 22	17 26	12 19	12 17	27 40			n.a.
T 23	13 9	8 21	3 42	19 20	1 24	17 24	1 18	23 59	0 59	23 25	0 22	17 31	1 29	12 35	0 44	21 53	0 13	16 23	17 26	12 19	12 18	27 41			n.a.
W24	12 49	13 54	4 26	19 0	1 31	17 2	1 19	23 56	1 0	23 24	0 22	17 31	1 29	12 34	0 44	21 53	0 13	16 23	17 26	12 19	12 19	27 42			n.a.
T 25	12 29	18 47	4 57	18 37	1 37	16 39	1 20	23 53	1 0	23 23	0 22	17 32	1 29	12 33	0 44	21 53	0 13	16 24	17 27	12 19	12 20	27 42			n.a.
F 26	12 8	22 48	5 13	18 11	1 42	16 16	1 21	23 49	1 1	23 22	0 22	17 33	1 29	12 31	0 44	21 53	0 13	16 25	17 27	12 19	12 21	27 43			n.a.
S 27	11 47	25 50	5 16	17 44	1 45	15 52	1 22	23 45	1 2	23 21	0 23	17 34	1 29	12 30	0 44	21 54	0 13	16 25	17 27	12 19	12 22	27 43			n.a.
S 28	11 26	27 42	5 6	17 13	1 48	15 29	1 22	23 41	1 2	23 20	0 23	17 34	1 28	12 29	0 44	21 54	0 13	16 26	17 27	12 19	12 23	27 44			n.a.
M29	11 5	28 19	4 42	16 41	1 50	15 4	1 23	23 37	1 3	23 19	0 23	17 35	1 28	12 27	0 44	21 54	0 13	16 26	17 27	12 18	12 25	27 44			n.a.
T 30	10 44	27 37	4 6	16 8	1 52	14 39	1 23	23 33	1 4	23 18	0 23	17 36	1 28	12 26	0 44	21 54	0 13	16 27	17 27	12 18	12 26	27 45			n.a.
W31	10n22	25s35	3s19	15n32	1n52	14n14	1n24	23n28	1n 4	23n17	0n23	17s37	1n28	12n25	0n44	21s54	0s13	16s27	17s28	12s18	12s27	27s45			n.a.

Julian Day Number = 1672691.5, Delta T = 03h19m42s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'30, Lahiri = - 5°47'30 Julian Calendar 1 Aug. 134 BCE == Greg. Calendar 29 July 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

SEPTEMBER 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 25 35	4♍23'18	1♒35	25♌31	27♌28	19♋ 8	14♋46	24♏14	29♌42	23°R 9	28°R42	28♒ 1	27♒33	15♐19	n.a.	T 1
F 2	22 29 31	5°22'23	14° 9	27°20	28°43	19°45	14°57	24°17	29°46	23♑ 7	28♓41	28° 2	27°29	15°25	n.a.	F 2
S 3	22 33 28	6°21'30	26°59	29° 8	29°58	20°22	15° 7	24°20	29°50	23° 6	28°40	28°R 2	27°26	15°32	n.a.	S 3
S 4	22 37 25	7°20'39	10♓ 6	0♍57	1♍13	20°58	15°17	24°23	29°53	23° 5	28°39	28° 2	27°23	15°39	n.a.	S 4
M 5	22 41 21	8°19'50	23°29	2°45	2°28	21°35	15°28	24°26	29°57	23° 4	28°38	28° 1	27°20	15°45	n.a.	M 5
T 6	22 45 18	9°19'04	7♈ 6	4°32	3°43	22°11	15°38	24°29	0♍ 1	23° 3	28°37	28° 0	27°17	15°52	n.a.	T 6
W 7	22 49 14	10°18'20	20°56	6°19	4°58	22°48	15°48	24°32	0° 5	23° 2	28°36	27°58	27°13	15°59	n.a.	W 7
T 8	22 53 11	11°17'38	4♉56	8° 6	6°13	23°24	15°58	24°36	0° 8	23° 1	28°35	27°57	27°10	16° 6	n.a.	T 8
F 9	22 57 7	12°16'59	19° 3	9°52	7°28	24° 0	16° 8	24°39	0°12	23° 0	28°34	27°55	27° 7	16°12	n.a.	F 9
S 10	23 1 4	13°16'22	3♊14	11°37	8°43	24°37	16°18	24°43	0°16	22°59	28°33	27°54	27° 4	16°19	n.a.	S 10
S 11	23 5 0	14°15'47	17°26	13°22	9°58	25°13	16°28	24°47	0°20	22°59	28°32	27°D54	27° 1	16°26	n.a.	S 11
M12	23 8 57	15°15'15	1♋37	15° 6	11°13	25°49	16°37	24°50	0°23	22°58	28°30	27°55	26°58	16°32	n.a.	M12
T 13	23 12 54	16°14'46	15°46	16°49	12°29	26°25	16°47	24°54	0°27	22°57	28°29	27°56	26°54	16°39	n.a.	T 13
W14	23 16 50	17°14'19	29°49	18°31	13°44	27° 1	16°56	24°58	0°31	22°56	28°28	27°57	26°51	16°46	n.a.	W14
T 15	23 20 47	18°13'54	13♌45	20°13	14°59	27°37	17° 5	25° 2	0°34	22°55	28°27	27°58	26°48	16°53	n.a.	T 15
F 16	23 24 43	19°13'32	27°32	21°54	16°14	28°13	17°15	25° 6	0°38	22°55	28°26	27°R59	26°45	16°59	n.a.	F 16
S 17	23 28 40	20°13'11	11♍ 6	23°35	17°30	28°49	17°24	25°10	0°42	22°54	28°25	27°58	26°42	17° 6	n.a.	S 17
S 18	23 32 36	21°12'53	24°27	25°14	18°45	29°25	17°33	25°14	0°45	22°53	28°24	27°56	26°39	17°13	n.a.	S 18
M19	23 36 33	22°12'37	7♎32	26°53	20° 0	0♌ 1	17°41	25°19	0°49	22°53	28°23	27°54	26°35	17°19	n.a.	M19
T 20	23 40 29	23°12'22	20°21	28°32	21°15	0°36	17°50	25°23	0°52	22°52	28°21	27°50	26°32	17°26	n.a.	T 20
W21	23 44 26	24°12'10	2♏54	0♎ 9	22°31	1°12	17°59	25°28	0°56	22°51	28°20	27°45	26°29	17°33	n.a.	W21
T 22	23 48 22	25°12'00	15°12	1°47	23°46	1°48	18° 7	25°32	1° 0	22°51	28°19	27°41	26°26	17°40	n.a.	T 22
F 23	23 52 19	26°11'52	27°18	3°23	25° 1	2°23	18°15	25°37	1° 3	22°50	28°18	27°37	26°23	17°46	n.a.	F 23
S 24	23 56 16	27°11'45	9♐15	4°59	26°17	2°59	18°24	25°41	1° 7	22°50	28°17	27°34	26°19	17°53	n.a.	S 24
S 25	0 0 12	28°11'40	21° 7	6°34	27°32	3°34	18°32	25°46	1°10	22°49	28°16	27°32	26°16	18° 0	n.a.	S 25
M26	0 4 9	29°11'38	3♑ 0	8° 9	28°47	4°10	18°40	25°51	1°14	22°49	28°14	27°D32	26°13	18° 6	n.a.	M26
T 27	0 8 5	0♎11'36	14°57	9°43	0♎ 3	4°45	18°48	25°56	1°17	22°48	28°13	27°33	26°10	18°13	n.a.	T 27
W28	0 12 2	1°11'37	27° 3	11°17	1°18	5°20	18°55	26° 1	1°20	22°48	28°12	27°35	26° 7	18°20	n.a.	W28
T 29	0 15 58	2°11'39	9♒24	12°50	2°33	5°55	19° 3	26° 6	1°24	22°48	28°11	27°37	26° 4	18°27	n.a.	T 29
F 30	0 19 55	3♎11'43	22♒ 4	14♎23	3♎49	6♌30	19♋10	26♏11	1♍27	22♑47	28♓10	27°R38	26♒ 0	18♐33	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 1	22s20	2s21	14n55	1n52	13n48	1n24	23n24	1n 5	23n16	0n23	17s38	1n28	12n23	0n44	21s55	0s13	16s28	17s28	12s18	12s28	27s46		n.a.
F 2	9 39	17 59	1 16	14 16	1 51	13 22	1 25	23 19	1 5	23 15	0 23	17 39	1 27	12 22	0 44	21 55	0 13	16 28	17 28	12 18	12 29	27 46		n.a.
S 3	9 17	12 45	0 6	13 37	1 50	12 56	1 25	23 14	1 6	23 14	0 24	17 40	1 27	12 21	0 44	21 55	0 13	16 29	17 28	12 18	12 30	27 47		n.a.
S 4	8 55	6 51	1n 6	12 56	1 48	12 29	1 25	23 9	1 7	23 13	0 24	17 41	1 27	12 19	0 44	21 55	0 13	16 29	17 28	12 18	12 31	27 47		n.a.
M 5	8 32	0 32	2 16	12 15	1 45	12 2	1 25	23 4	1 7	23 12	0 24	17 42	1 27	12 18	0 44	21 55	0 13	16 30	17 28	12 18	12 32	27 48		n.a.
T 6	8 10	5n54	3 20	11 32	1 42	11 35	1 25	22 59	1 8	23 11	0 24	17 43	1 27	12 17	0 44	21 56	0 13	16 31	17 28	12 18	12 33	27 48		n.a.
W 7	7 47	12 9	4 12	10 49	1 39	11 7	1 25	22 53	1 9	23 10	0 24	17 44	1 26	12 15	0 44	21 56	0 13	16 31	17 28	12 19	12 34	27 49		n.a.
T 8	7 25	17 52	4 51	10 5	1 35	10 39	1 25	22 48	1 9	23 9	0 24	17 45	1 26	12 14	0 44	21 56	0 13	16 32	17 29	12 19	12 36	27 49		n.a.
F 9	7 2	22 40	5 12	9 21	1 31	10 11	1 25	22 42	1 10	23 8	0 25	17 46	1 26	12 13	0 44	21 56	0 13	16 32	17 29	12 20	12 37	27 50		n.a.
S 10	6 39	26 11	5 14	8 37	1 26	9 42	1 25	22 36	1 11	23 7	0 25	17 47	1 26	12 11	0 44	21 56	0 13	16 33	17 29	12 20	12 38	27 50		n.a.
S 11	6 16	28 3	4 58	7 52	1 21	9 13	1 25	22 30	1 11	23 6	0 25	17 48	1 26	12 10	0 44	21 56	0 13	16 33	17 29	12 20	12 39	27 50		n.a.
M12	5 53	28 5	4 23	7 6	1 16	8 44	1 24	22 24	1 12	23 5	0 25	17 49	1 25	12 9	0 44	21 57	0 13	16 34	17 29	12 20	12 40	27 51		n.a.
T 13	5 29	26 17	3 32	6 21	1 11	8 15	1 24	22 18	1 13	23 4	0 25	17 50	1 25	12 7	0 44	21 57	0 13	16 34	17 29	12 20	12 41	27 51		n.a.
W14	5 6	22 51	2 29	5 35	1 5	7 45	1 24	22 11	1 13	23 3	0 25	17 51	1 25	12 6	0 44	21 57	0 13	16 35	17 29	12 19	12 42	27 52		n.a.
T 15	4 42	18 7	1 18	4 50	1 0	7 15	1 23	22 5	1 14	23 2	0 25	17 52	1 25	12 5	0 44	21 57	0 13	16 35	17 29	12 19	12 43	27 52		n.a.
F 16	4 19	12 30	0 2	4 4	0 54	6 45	1 22	21 58	1 14	23 1	0 26	17 54	1 25	12 4	0 44	21 57	0 13	16 36	17 29	12 19	12 44	27 52		n.a.
S 17	3 55	6 23	1s12	3 18	0 48	6 15	1 22	21 51	1 15	23 0	0 26	17 55	1 24	12 2	0 44	21 57	0 13	16 36	17 29	12 19	12 45	27 53		n.a.
S 18	3 31	0 5	2 20	2 33	0 41	5 45	1 21	21 44	1 16	22 59	0 26	17 56	1 24	12 1	0 44	21 57	0 13	16 37	17 29	12 20	12 47	27 53		n.a.
M19	3 7	6s 5	3 20	1 47	0 35	5 14	1 20	21 37	1 16	22 58	0 26	17 57	1 24	12 0	0 44	21 58	0 13	16 37	17 29	12 21	12 48	27 54		n.a.
T 20	2 44	11 52	4 9	1 2	0 29	4 43	1 20	21 30	1 17	22 57	0 26	17 58	1 24	11 58	0 44	21 58	0 13	16 38	17 29	12 22	12 49	27 54		n.a.
W21	2 20	17 3	4 44	0 17	0 22	4 12	1 19	21 23	1 18	22 56	0 27	18 0	1 24	11 57	0 44	21 58	0 13	16 38	17 29	12 23	12 50	27 54		n.a.
T 22	1 56	21 26	5 5	0s29	0 16	3 41	1 18	21 16	1 18	22 55	0 27	18 1	1 23	11 56	0 44	21 58	0 13	16 39	17 29	12 25	12 51	27 55		n.a.
F 23	1 32	24 51	5 13	1 13	0 9	3 10	1 17	21 8	1 19	22 54	0 27	18 2	1 23	11 55	0 44	21 58	0 13	16 39	17 29	12 26	12 52	27 55		n.a.
S 24	1 8	27 8	5 6	1 58	0 2	2 39	1 16	21 1	1 20	22 53	0 27	18 3	1 23	11 53	0 44	21 58	0 13	16 39	17 29	12 27	12 53	27 55		n.a.
S 25	0 44	28 11	4 47	2 42	0s 4	2 8	1 15	20 53	1 20	22 52	0 27	18 5	1 23	11 52	0 44	21 58	0 13	16 40	17 29	12 28	12 54	27 56		n.a.
M26	0 19	27 56	4 15	3 26	0 11	1 36	1 13	20 45	1 21	22 51	0 27	18 6	1 23	11 51	0 44	21 58	0 13	16 40	17 29	12 28	12 55	27 56		n.a.
T 27	0s 5	26 23	3 32	4 10	0 18	1 5	1 12	20 37	1 22	22 50	0 28	18 7	1 23	11 50	0 44	21 58	0 13	16 41	17 29	12 28	12 56	27 56		n.a.
W28	0 29	23 35	2 39	4 53	0 24	0 33	1 11	20 29	1 22	22 49	0 28	18 9	1 22	11 49	0 44	21 58	0 13	16 41	17 29	12 27	12 57	27 56		n.a.
T 29	0 53	19 40	1 38	5 36	0 31	0 2	1 10	20 21	1 23	22 48	0 28	18 10	1 22	11 47	0 44	21 58	0 13	16 42	17 29	12 26	12 59	27 57		n.a.
F 30	1s17	14s47	0s30	6s19	0s38	0s30	1n 8	20n13	1n24	22n47	0n28	18s11	1n22	11n46	0n44	21s58	0s13	16s42	17s29	12s26	13s 0	27s57		n.a.

Julian Day Number = 1672722.5, Delta T = 03h19m41s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'26, Lahiri = - 5°47'26 Julian Calendar 1 Sept. 134 BCE == Greg. Calendar 29 Aug. 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

OCTOBER 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 23 51	4♎11'49	5♓ 5	15♎55	5♎ 4	7♌ 5	19♋17	26♏16	1♍31	22°R47	28°R 9	27°R38	25♒57	18♐40	n.a.	S 1
S 2	0 27 48	5°11'56	18°28	17°27	6°20	7°40	19°25	26°21	1°34	22♑47	28♓ 8	27♒36	25°54	18°47	n.a.	S 2
M 3	0 31 45	6°12'05	2♈13	18°58	7°35	8°15	19°32	26°26	1°37	22°47	28° 6	27°32	25°51	18°53	n.a.	M 3
T 4	0 35 41	7°12'17	16°18	20°29	8°50	8°50	19°38	26°32	1°40	22°47	28° 5	27°27	25°48	19° 0	n.a.	T 4
W 5	0 39 38	8°12'30	0♉38	22° 0	10° 6	9°25	19°45	26°37	1°44	22°46	28° 4	27°20	25°45	19° 7	n.a.	W 5
T 6	0 43 34	9°12'45	15° 7	23°29	11°21	10° 0	19°52	26°42	1°47	22°46	28° 3	27°14	25°41	19°14	n.a.	T 6
F 7	0 47 31	10°13'02	29°38	24°59	12°37	10°34	19°58	26°48	1°50	22°46	28° 2	27° 8	25°38	19°20	n.a.	F 7
S 8	0 51 27	11°13'22	14♊ 6	26°28	13°52	11° 9	20° 4	26°54	1°53	22°D46	28° 1	27° 3	25°35	19°27	n.a.	S 8
S 9	0 55 24	12°13'43	28°27	27°56	15° 7	11°43	20°10	26°59	1°56	22°46	28° 0	27° 0	25°32	19°34	n.a.	S 9
M10	0 59 20	13°14'07	12♋36	29°24	16°23	12°18	20°16	27° 5	1°59	22°46	27°59	26°D59	25°29	19°40	n.a.	M10
T 11	1 3 17	14°14'33	26°33	0♏52	17°38	12°52	20°22	27°11	2° 3	22°46	27°58	27° 0	25°25	19°47	n.a.	T 11
W12	1 7 14	15°15'00	10♌18	2°18	18°54	13°27	20°28	27°16	2° 6	22°46	27°56	27° 1	25°22	19°54	n.a.	W12
T 13	1 11 10	16°15'30	23°50	3°45	20° 9	14° 1	20°33	27°22	2° 9	22°47	27°55	27°R 2	25°19	20° 0	n.a.	T 13
F 14	1 15 7	17°16'02	7♍11	5°10	21°25	14°35	20°39	27°28	2°11	22°47	27°54	27° 1	25°16	20° 7	n.a.	F 14
S 15	1 19 3	18°16'35	20°20	6°35	22°40	15° 9	20°44	27°34	2°14	22°47	27°53	26°59	25°13	20°14	n.a.	S 15
S 16	1 23 0	19°17'10	3♎19	8° 0	23°55	15°43	20°49	27°40	2°17	22°47	27°52	26°54	25°10	20°21	n.a.	S 16
M17	1 26 56	20°17'47	16° 6	9°23	25°11	16°17	20°54	27°46	2°20	22°47	27°51	26°46	25° 6	20°27	n.a.	M17
T 18	1 30 53	21°18'26	28°41	10°45	26°26	16°51	20°58	27°52	2°23	22°48	27°50	26°36	25° 3	20°34	n.a.	T 18
W19	1 34 49	22°19'06	11♏ 5	12° 7	27°42	17°24	21° 3	27°58	2°26	22°48	27°49	26°25	25° 0	20°41	n.a.	W19
T 20	1 38 46	23°19'47	23°17	13°27	28°57	17°58	21° 7	28° 4	2°28	22°48	27°48	26°14	24°57	20°47	n.a.	T 20
F 21	1 42 43	24°20'30	5♐20	14°46	0♏13	18°32	21°11	28°11	2°31	22°49	27°47	26° 4	24°54	20°54	n.a.	F 21
S 22	1 46 39	25°21'15	17°15	16° 4	1°28	19° 5	21°15	28°17	2°34	22°49	27°46	25°55	24°50	21° 1	n.a.	S 22
S 23	1 50 36	26°22'00	29° 5	17°20	2°43	19°38	21°19	28°23	2°36	22°50	27°45	25°49	24°47	21° 8	n.a.	S 23
M24	1 54 32	27°22'47	10♑55	18°34	3°59	20°12	21°22	28°29	2°39	22°50	27°44	25°45	24°44	21°14	n.a.	M24
T 25	1 58 29	28°23'35	22°49	19°46	5°14	20°45	21°26	28°36	2°42	22°51	27°43	25°43	24°41	21°21	n.a.	T 25
W26	2 2 25	29°24'24	4♒52	20°55	6°30	21°18	21°29	28°42	2°44	22°51	27°42	25°D43	24°38	21°28	n.a.	W26
T 27	2 6 22	0♏25'15	17° 9	22° 2	7°45	21°51	21°32	28°49	2°47	22°52	27°41	25°44	24°35	21°34	n.a.	T 27
F 28	2 10 18	1°26'06	29°47	23° 6	9° 1	22°24	21°35	28°55	2°49	22°53	27°40	25°R44	24°31	21°41	n.a.	F 28
S 29	2 14 15	2°26'58	12♓48	24° 6	10°16	22°57	21°37	29° 2	2°51	22°53	27°39	25°43	24°28	21°48	n.a.	S 29
S 30	2 18 12	3°27'51	26°17	25° 2	11°31	23°29	21°40	29° 8	2°54	22°54	27°38	25°39	24°25	21°55	n.a.	S 30
M31	2 22 8	4♏28'45	10♈14	25♏53	12♏47	24♌ 2	21♋42	29♏15	2♍56	22♑55	27♓37	25♒33	24♒22	22♐ 1	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s41	9s 8	0n40	7s 1	0s44	1s 1	1n 7	20n 4	1n25	22n47	0n28	18s13	1n22	11n45	0n44	21s58	0s13	16s43	17s29	12s26	13s 1	27s57		n.a.
S 2	2 5	2 55	1 51	7 43	0 51	1 33	1 5	19 56	1 25	22 46	0 29	18 14	1 22	11 44	0 44	21 59	0 13	16 43	17 29	12 27	13 2	27 57		n.a.
M 3	2 29	3n35	2 57	8 24	0 58	2 4	1 4	19 47	1 26	22 45	0 29	18 15	1 22	11 43	0 44	21 59	0 13	16 43	17 29	12 28	13 3	27 58		n.a.
T 4	2 53	10 4	3 53	9 5	1 4	2 36	1 2	19 39	1 27	22 44	0 29	18 17	1 21	11 41	0 44	21 59	0 13	16 44	17 29	12 30	13 4	27 58		n.a.
W 5	3 17	16 7	4 36	9 45	1 10	3 7	1 0	19 30	1 27	22 43	0 29	18 18	1 21	11 40	0 44	21 59	0 13	16 44	17 29	12 32	13 5	27 58		n.a.
T 6	3 41	21 21	5 2	10 24	1 16	3 38	0 59	19 21	1 28	22 42	0 29	18 20	1 21	11 39	0 44	21 59	0 13	16 45	17 29	12 34	13 6	27 58		n.a.
F 7	4 5	25 19	5 8	11 3	1 23	4 10	0 57	19 12	1 29	22 42	0 29	18 21	1 21	11 38	0 44	21 59	0 13	16 45	17 29	12 37	13 7	27 59		n.a.
S 8	4 29	27 38	4 55	11 42	1 29	4 41	0 55	19 3	1 29	22 41	0 30	18 23	1 21	11 37	0 44	21 59	0 13	16 45	17 29	12 38	13 8	27 59		n.a.
S 9	4 53	28 6	4 24	12 20	1 34	5 12	0 53	18 54	1 30	22 40	0 30	18 24	1 21	11 36	0 44	21 59	0 13	16 46	17 29	12 39	13 9	27 59		n.a.
M10	5 17	26 42	3 36	12 57	1 40	5 43	0 52	18 45	1 31	22 40	0 30	18 25	1 21	11 35	0 45	21 59	0 13	16 46	17 28	12 39	13 10	27 59		n.a.
T 11	5 41	23 39	2 37	13 33	1 46	6 14	0 50	18 36	1 31	22 39	0 30	18 27	1 20	11 34	0 45	21 59	0 13	16 46	17 28	12 39	13 12	27 59		n.a.
W12	6 4	19 17	1 29	14 9	1 51	6 45	0 48	18 27	1 32	22 38	0 30	18 28	1 20	11 33	0 45	21 59	0 13	16 47	17 28	12 39	13 13	28 0		n.a.
T 13	6 28	14 0	0 17	14 44	1 56	7 16	0 46	18 18	1 33	22 38	0 31	18 30	1 20	11 31	0 45	21 59	0 13	16 47	17 28	12 39	13 14	28 0		n.a.
F 14	6 51	8 8	0s54	15 18	2 1	7 46	0 44	18 8	1 34	22 37	0 31	18 31	1 20	11 30	0 45	21 59	0 13	16 47	17 28	12 39	13 15	28 0		n.a.
S 15	7 15	2 0	2 2	15 51	2 6	8 16	0 42	17 59	1 34	22 36	0 31	18 33	1 20	11 29	0 45	21 59	0 13	16 48	17 28	12 40	13 16	28 0		n.a.
S 16	7 38	4s 6	3 2	16 23	2 10	8 46	0 40	17 49	1 35	22 36	0 31	18 34	1 20	11 28	0 45	21 59	0 13	16 48	17 28	12 41	13 17	28 0		n.a.
M17	8 1	9 57	3 52	16 54	2 14	9 16	0 38	17 39	1 36	22 35	0 32	18 36	1 20	11 27	0 45	21 59	0 13	16 48	17 28	12 44	13 18	28 0		n.a.
T 18	8 24	15 19	4 29	17 24	2 18	9 46	0 35	17 30	1 36	22 35	0 32	18 37	1 19	11 26	0 45	21 58	0 13	16 48	17 27	12 47	13 19	28 0		n.a.
W19	8 47	19 57	4 53	17 53	2 21	10 15	0 33	17 20	1 37	22 34	0 32	18 39	1 19	11 25	0 45	21 58	0 13	16 49	17 27	12 51	13 20	28 1		n.a.
T 20	9 10	23 42	5 4	18 21	2 24	10 45	0 31	17 10	1 38	22 34	0 32	18 40	1 19	11 24	0 45	21 58	0 13	16 49	17 27	12 55	13 21	28 1		n.a.
F 21	9 33	26 21	5 0	18 47	2 27	11 14	0 29	17 0	1 39	22 33	0 32	18 42	1 19	11 23	0 45	21 58	0 13	16 49	17 27	12 58	13 22	28 1		n.a.
S 22	9 55	27 48	4 44	19 13	2 29	11 42	0 27	16 51	1 39	22 33	0 33	18 43	1 19	11 23	0 45	21 58	0 13	16 49	17 27	13 1	13 23	28 1		n.a.
S 23	10 17	27 57	4 15	19 37	2 31	12 11	0 24	16 41	1 40	22 33	0 33	18 45	1 19	11 22	0 45	21 58	0 13	16 50	17 27	13 4	13 24	28 1		n.a.
M24	10 39	26 50	3 35	19 59	2 32	12 39	0 22	16 31	1 41	22 32	0 33	18 46	1 19	11 21	0 45	21 58	0 13	16 50	17 26	13 5	13 26	28 1		n.a.
T 25	11 2	24 29	2 46	20 20	2 33	13 7	0 20	16 21	1 42	22 32	0 33	18 48	1 19	11 20	0 45	21 58	0 13	16 50	17 26	13 6	13 27	28 1		n.a.
W26	11 23	21 2	1 49	20 39	2 33	13 34	0 17	16 11	1 42	22 32	0 33	18 49	1 18	11 19	0 45	21 58	0 13	16 50	17 26	13 6	13 28	28 1		n.a.
T 27	11 45	16 36	0 46	20 56	2 32	14 1	0 15	16 1	1 43	22 31	0 34	18 51	1 18	11 18	0 45	21 58	0 13	16 50	17 26	13 5	13 29	28 1		n.a.
F 28	12 6	11 21	0n22	21 11	2 31	14 28	0 13	15 50	1 44	22 31	0 34	18 53	1 18	11 17	0 45	21 58	0 13	16 51	17 26	13 5	13 30	28 1		n.a.
S 29	12 28	5 27	1 30	21 24	2 29	14 54	0 10	15 40	1 45	22 31	0 34	18 54	1 18	11 16	0 45	21 58	0 13	16 51	17 25	13 6	13 31	28 1		n.a.
S 30	12 49	0n52	2 35	21 35	2 25	15 20	0 8	15 30	1 45	22 31	0 34	18 56	1 18	11 16	0 45	21 57	0 13	16 51	17 25	13 7	13 32	28 1		n.a.
M31	13s10	7n21	3n33	21s44	2s21	15s46	0n 5	15n20	1n46	22n31	0n35	18s57	1n18	11n15	0n45	21s57	0s13	16s51	17s25	13s 9	13s33	28s 1		n.a.

Julian Day Number = 1672752.5, Delta T = 03h19m40s
Ecliptic obliquity = 23°42'49, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'22, Lahiri = - 5°47'22 Julian Calendar 1 Oct. 134 BCE == Greg. Calendar 28 Sept. 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

NOVEMBER 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 5	5♏29'40	24♈37	26♏39	14♏ 2	24♌34	21♋44	29♏21	2♍58	22♑56	27°R37	25°R24	24♒19	22♐ 8	n.a.	T 1
W 2	2 30 1	6°30'37	9♉20	27°19	15°18	25° 7	21°46	29°28	3° 0	22°57	27♓36	25♒13	24°16	22°15	n.a.	W 2
T 3	2 33 58	7°31'34	24°16	27°52	16°33	25°39	21°48	29°35	3° 2	22°57	27°35	25° 2	24°12	22°21	n.a.	T 3
F 4	2 37 54	8°32'33	9♊16	28°18	17°48	26°11	21°49	29°41	3° 5	22°58	27°34	24°51	24° 9	22°28	n.a.	F 4
S 5	2 41 51	9°33'33	24° 9	28°36	19° 4	26°43	21°51	29°48	3° 7	22°59	27°33	24°43	24° 6	22°35	n.a.	S 5
S 6	2 45 47	10°34'35	8♋49	28°R44	20°19	27°15	21°52	29°55	3° 9	23° 0	27°32	24°37	24° 3	22°41	n.a.	S 6
M 7	2 49 44	11°35'37	23° 9	28°42	21°34	27°47	21°53	0♐ 2	3°11	23° 1	27°32	24°33	24° 0	22°48	n.a.	M 7
T 8	2 53 41	12°36'41	7♌10	28°30	22°50	28°19	21°54	0° 9	3°12	23° 2	27°31	24°32	23°56	22°55	n.a.	T 8
W 9	2 57 37	13°37'46	20°49	28° 6	24° 5	28°50	21°54	0°15	3°14	23° 3	27°30	24°32	23°53	23° 2	n.a.	W 9
T 10	3 1 34	14°38'52	4♍10	27°31	25°20	29°22	21°55	0°22	3°16	23° 4	27°29	24°32	23°50	23° 8	n.a.	T 10
F 11	3 5 30	15°40'00	17°14	26°45	26°36	29°53	21°R55	0°29	3°18	23° 5	27°29	24°30	23°47	23°15	n.a.	F 11
S 12	3 9 27	16°41'08	0♎ 5	25°48	27°51	0♍25	21°55	0°36	3°20	23° 6	27°28	24°26	23°44	23°22	n.a.	S 12
S 13	3 13 23	17°42'17	12°44	24°42	29° 7	0°56	21°54	0°43	3°21	23° 8	27°27	24°19	23°41	23°28	n.a.	S 13
M14	3 17 20	18°43'27	25°12	23°28	0♐22	1°27	21°54	0°50	3°23	23° 9	27°27	24° 8	23°37	23°35	n.a.	M14
T 15	3 21 16	19°44'38	7♏32	22° 8	1°37	1°57	21°53	0°57	3°24	23°10	27°26	23°55	23°34	23°42	n.a.	T 15
W16	3 25 13	20°45'50	19°44	20°46	2°53	2°28	21°53	1° 4	3°26	23°11	27°25	23°40	23°31	23°49	n.a.	W16
T 17	3 29 10	21°47'02	1♐48	19°23	4° 8	2°59	21°52	1°11	3°27	23°13	27°25	23°25	23°28	23°55	n.a.	T 17
F 18	3 33 6	22°48'15	13°45	18° 3	5°23	3°29	21°50	1°18	3°29	23°14	27°24	23°11	23°25	24° 2	n.a.	F 18
S 19	3 37 3	23°49'29	25°37	16°49	6°38	3°59	21°49	1°25	3°30	23°15	27°24	22°58	23°22	24° 9	n.a.	S 19
S 20	3 40 59	24°50'42	7♑26	15°41	7°54	4°29	21°47	1°32	3°31	23°17	27°23	22°49	23°18	24°15	n.a.	S 20
M21	3 44 56	25°51'56	19°15	14°43	9° 9	4°59	21°45	1°39	3°33	23°18	27°22	22°42	23°15	24°22	n.a.	M21
T 22	3 48 52	26°53'11	1♒ 7	13°55	10°24	5°29	21°43	1°46	3°34	23°19	27°22	22°38	23°12	24°29	n.a.	T 22
W23	3 52 49	27°54'25	13° 7	13°17	11°40	5°59	21°41	1°53	3°35	23°21	27°21	22°37	23° 9	24°35	n.a.	W23
T 24	3 56 46	28°55'39	25°20	12°50	12°55	6°28	21°39	2° 0	3°36	23°22	27°21	22°37	23° 6	24°42	n.a.	T 24
F 25	4 0 42	29°56'54	7♓51	12°34	14°10	6°57	21°36	2° 7	3°37	23°24	27°21	22°36	23° 2	24°49	n.a.	F 25
S 26	4 4 39	0♐58'08	20°47	12°D29	15°25	7°27	21°33	2°14	3°38	23°25	27°20	22°35	22°59	24°56	n.a.	S 26
S 27	4 8 35	1°59'22	4♈10	12°32	16°41	7°56	21°30	2°21	3°39	23°27	27°20	22°32	22°56	25° 2	n.a.	S 27
M28	4 12 32	3° 0'36	18° 4	12°45	17°56	8°24	21°27	2°28	3°40	23°29	27°19	22°26	22°53	25° 9	n.a.	M28
T 29	4 16 28	4° 1'50	2♉28	13° 6	19°11	8°53	21°24	2°35	3°40	23°30	27°19	22°17	22°50	25°16	n.a.	T 29
W30	4 20 25	5♐ 3'04	17♉18	13♏34	20♐26	9♍21	21♋20	2♐42	3♍41	23♑32	27♓19	22♒ 6	22♒47	25♐22	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s30	13n39	4n19	21s50	2s16	16s11	0n 3	15n10	1n47	22n30	0n35	18s59	1n18	11n14	0n45	21s57	0s13	16s51	17s25	13s12	13s34	28s 1		n.a.
W 2	13 51	19 20	4 50	21 54	2 10	16 36	0 1	14 59	1 48	22 30	0 35	19 0	1 18	11 13	0 45	21 57	0 13	16 51	17 24	13 16	13 35	28 1		n.a.
T 3	14 11	23 55	5 1	21 54	2 2	17 0	0s 2	14 49	1 49	22 30	0 35	19 2	1 18	11 12	0 45	21 57	0 13	16 52	17 24	13 20	13 36	28 1		n.a.
F 4	14 31	26 54	4 52	21 51	1 54	17 24	0 4	14 39	1 49	22 30	0 35	19 3	1 17	11 12	0 45	21 57	0 13	16 52	17 24	13 23	13 37	28 1		n.a.
S 5	14 50	27 57	4 23	21 45	1 43	17 47	0 7	14 28	1 50	22 30	0 36	19 5	1 17	11 11	0 45	21 57	0 13	16 52	17 24	13 26	13 38	28 1		n.a.
S 6	15 10	27 1	3 37	21 36	1 32	18 10	0 9	14 18	1 51	22 30	0 36	19 6	1 17	11 10	0 45	21 56	0 13	16 52	17 23	13 28	13 39	28 1		n.a.
M 7	15 29	24 17	2 38	21 23	1 19	18 33	0 11	14 7	1 52	22 30	0 36	19 8	1 17	11 10	0 45	21 56	0 13	16 52	17 23	13 29	13 41	28 1		n.a.
T 8	15 48	20 9	1 31	21 5	1 4	18 55	0 14	13 57	1 53	22 31	0 36	19 9	1 17	11 9	0 46	21 56	0 13	16 52	17 23	13 30	13 42	28 1		n.a.
W 9	16 7	15 2	0 20	20 44	0 48	19 16	0 16	13 47	1 53	22 31	0 37	19 11	1 17	11 8	0 46	21 56	0 13	16 52	17 23	13 30	13 43	28 1		n.a.
T 10	16 25	9 18	0s51	20 19	0 30	19 37	0 19	13 36	1 54	22 31	0 37	19 13	1 17	11 8	0 46	21 56	0 13	16 52	17 22	13 30	13 44	28 1		n.a.
F 11	16 43	3 18	1 57	19 50	0 11	19 57	0 21	13 26	1 55	22 31	0 37	19 14	1 17	11 7	0 46	21 56	0 13	16 52	17 22	13 30	13 45	28 1		n.a.
S 12	17 1	2s43	2 56	19 18	0n 8	20 17	0 23	13 15	1 56	22 31	0 37	19 16	1 17	11 7	0 46	21 55	0 13	16 52	17 22	13 32	13 46	28 1		n.a.
S 13	17 18	8 32	3 45	18 42	0 29	20 37	0 26	13 5	1 57	22 32	0 38	19 17	1 17	11 6	0 46	21 55	0 13	16 52	17 21	13 34	13 47	28 1		n.a.
M14	17 36	13 55	4 22	18 4	0 49	20 55	0 28	12 55	1 57	22 32	0 38	19 19	1 16	11 5	0 46	21 55	0 13	16 52	17 21	13 38	13 48	28 1		n.a.
T 15	17 52	18 42	4 47	17 24	1 9	21 13	0 31	12 44	1 58	22 32	0 38	19 20	1 16	11 5	0 46	21 55	0 13	16 52	17 21	13 42	13 49	28 1		n.a.
W16	18 9	22 39	4 58	16 44	1 29	21 31	0 33	12 34	1 59	22 33	0 38	19 22	1 16	11 4	0 46	21 55	0 13	16 52	17 21	13 47	13 50	28 0		n.a.
T 17	18 25	25 35	4 56	16 4	1 47	21 47	0 35	12 23	2 0	22 33	0 38	19 23	1 16	11 4	0 46	21 54	0 13	16 52	17 20	13 52	13 51	28 0		n.a.
F 18	18 41	27 21	4 40	15 26	2 3	22 4	0 37	12 13	2 1	22 33	0 39	19 25	1 16	11 3	0 46	21 54	0 13	16 52	17 20	13 57	13 52	28 0		n.a.
S 19	18 57	27 51	4 13	14 51	2 17	22 19	0 40	12 3	2 2	22 34	0 39	19 26	1 16	11 3	0 46	21 54	0 13	16 52	17 20	14 1	13 53	28 0		n.a.
S 20	19 12	27 4	3 34	14 20	2 30	22 34	0 42	11 52	2 3	22 34	0 39	19 28	1 16	11 3	0 46	21 54	0 13	16 52	17 19	14 4	13 54	28 0		n.a.
M21	19 27	25 4	2 46	13 54	2 39	22 48	0 44	11 42	2 3	22 35	0 39	19 29	1 16	11 2	0 46	21 53	0 13	16 52	17 19	14 6	13 55	28 0		n.a.
T 22	19 41	21 57	1 51	13 32	2 47	23 2	0 46	11 32	2 4	22 35	0 40	19 31	1 16	11 2	0 46	21 53	0 13	16 52	17 19	14 8	13 56	28 0		n.a.
W23	19 55	17 52	0 50	13 16	2 52	23 15	0 49	11 22	2 5	22 36	0 40	19 32	1 16	11 1	0 46	21 53	0 13	16 52	17 18	14 8	13 57	27 59		n.a.
T 24	20 9	13 0	0n14	13 5	2 56	23 27	0 51	11 11	2 6	22 37	0 40	19 34	1 16	11 1	0 46	21 53	0 13	16 52	17 18	14 8	13 58	27 59		n.a.
F 25	20 22	7 29	1 20	12 58	2 57	23 38	0 53	11 1	2 7	22 37	0 40	19 35	1 16	11 1	0 46	21 52	0 13	16 51	17 18	14 8	14 0	27 59		n.a.
S 26	20 35	1 30	2 23	12 57	2 57	23 49	0 55	10 51	2 8	22 38	0 41	19 37	1 16	11 0	0 46	21 52	0 13	16 51	17 17	14 9	14 1	27 59		n.a.
S 27	20 48	4n44	3 21	12 59	2 56	23 59	0 57	10 41	2 9	22 39	0 41	19 38	1 16	11 0	0 46	21 52	0 13	16 51	17 17	14 10	14 2	27 59		n.a.
M28	21 0	10 59	4 9	13 6	2 53	24 8	0 59	10 31	2 10	22 39	0 41	19 40	1 15	11 0	0 46	21 52	0 13	16 51	17 17	14 12	14 3	27 58		n.a.
T 29	21 12	16 53	4 43	13 16	2 49	24 17	1 1	10 21	2 11	22 40	0 41	19 41	1 15	11 0	0 46	21 51	0 13	16 51	17 16	14 15	14 4	27 58		n.a.
W30	21s23	21n58	5n 0	13s29	2n45	24s24	1s 3	10n11	2n12	22n41	0n41	19s42	1n15	10n59	0n46	21s51	0s13	16s51	17s16	14s18	14s 5	27s58		n.a.

Julian Day Number = 1672783.5, Delta T = 03h19m39s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'18, Lahiri = - 5°47'17 Julian Calendar 1 Nov. 134 BCE == Greg. Calendar 29 Oct. 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 134 BCE
geocentric

DECEMBER 134 BCE (-133) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 24 21	6♐ 4'19	2♊27	14♏ 9	21♐41	9♍50	21°R17	2♐49	3♍42	23♑34	27°R18	21°R55	22♒43	25♐29	n.a.	T 1
F 2	4 28 18	7° 5'33	17°45	14°49	22°56	10°18	21♋13	2°56	3°42	23°35	27♓18	21♒44	22°40	25°36	n.a.	F 2
S 3	4 32 15	8° 6'47	2♋59	15°35	24°12	10°45	21° 9	3° 3	3°43	23°37	27°18	21°35	22°37	25°43	n.a.	S 3
S 4	4 36 11	9° 8'01	18° 1	16°26	25°27	11°13	21° 5	3°10	3°43	23°39	27°17	21°28	22°34	25°49	n.a.	S 4
M 5	4 40 8	10° 9'16	2♌41	17°21	26°42	11°41	21° 0	3°17	3°44	23°40	27°17	21°25	22°31	25°56	n.a.	M 5
T 6	4 44 4	11°10'30	16°55	18°20	27°57	12° 8	20°56	3°24	3°44	23°42	27°17	21°D23	22°28	26° 3	n.a.	T 6
W 7	4 48 1	12°11'45	0♍43	19°21	29°12	12°35	20°51	3°31	3°45	23°44	27°17	21°23	22°24	26° 9	n.a.	W 7
T 8	4 51 57	13°12'59	14° 6	20°26	0♑27	13° 2	20°46	3°38	3°45	23°46	27°17	21°R24	22°21	26°16	n.a.	T 8
F 9	4 55 54	14°14'14	27° 7	21°34	1°42	13°28	20°41	3°45	3°45	23°48	27°16	21°23	22°18	26°23	n.a.	F 9
S 10	4 59 50	15°15'28	9♎50	22°44	2°57	13°55	20°36	3°52	3°45	23°50	27°16	21°20	22°15	26°29	n.a.	S 10
S 11	5 3 47	16°16'43	22°18	23°56	4°12	14°21	20°30	3°59	3°45	23°51	27°16	21°14	22°12	26°36	n.a.	S 11
M12	5 7 44	17°17'57	4♏34	25° 9	5°27	14°47	20°25	4° 6	3°R45	23°53	27°16	21° 6	22° 8	26°43	n.a.	M12
T 13	5 11 40	18°19'11	16°41	26°25	6°42	15°13	20°19	4°13	3°45	23°55	27°16	20°55	22° 5	26°50	n.a.	T 13
W14	5 15 37	19°20'25	28°42	27°42	7°57	15°38	20°13	4°20	3°45	23°57	27°16	20°43	22° 2	26°56	n.a.	W14
T 15	5 19 33	20°21'39	10♐38	29° 0	9°12	16° 3	20° 7	4°27	3°45	23°59	27°D16	20°31	21°59	27° 3	n.a.	T 15
F 16	5 23 30	21°22'52	22°31	0♐20	10°27	16°28	20° 1	4°33	3°45	24° 1	27°16	20°19	21°56	27°10	n.a.	F 16
S 17	5 27 26	22°24'04	4♑21	1°41	11°42	16°53	19°55	4°40	3°45	24° 3	27°16	20° 8	21°53	27°16	n.a.	S 17
S 18	5 31 23	23°25'16	16°11	3° 3	12°57	17°17	19°48	4°47	3°45	24° 5	27°16	20° 0	21°49	27°23	n.a.	S 18
M19	5 35 20	24°26'27	28° 2	4°26	14°12	17°41	19°42	4°54	3°44	24° 7	27°16	19°55	21°46	27°30	n.a.	M19
T 20	5 39 16	25°27'37	9♒57	5°50	15°27	18° 5	19°35	5° 1	3°44	24° 9	27°16	19°52	21°43	27°36	n.a.	T 20
W21	5 43 13	26°28'46	21°59	7°15	16°42	18°29	19°28	5° 7	3°43	24°11	27°16	19°D52	21°40	27°43	n.a.	W21
T 22	5 47 9	27°29'54	4♓13	8°40	17°57	18°52	19°22	5°14	3°43	24°13	27°17	19°53	21°37	27°50	n.a.	T 22
F 23	5 51 6	28°31'01	16°43	10° 7	19°12	19°15	19°15	5°21	3°42	24°15	27°17	19°54	21°34	27°57	n.a.	F 23
S 24	5 55 2	29°32'07	29°33	11°34	20°27	19°38	19° 7	5°27	3°42	24°18	27°17	19°R54	21°30	28° 3	n.a.	S 24
S 25	5 58 59	0♑33'12	12♈48	13° 2	21°41	20° 0	19° 0	5°34	3°41	24°20	27°17	19°53	21°27	28°10	n.a.	S 25
M26	6 2 55	1°34'16	26°30	14°31	22°56	20°22	18°53	5°41	3°40	24°22	27°17	19°51	21°24	28°17	n.a.	M26
T 27	6 6 52	2°35'18	10♉42	16° 0	24°11	20°44	18°46	5°47	3°40	24°24	27°18	19°46	21°21	28°23	n.a.	T 27
W28	6 10 49	3°36'19	25°22	17°30	25°26	21° 5	18°38	5°54	3°39	24°26	27°18	19°40	21°18	28°30	n.a.	W28
T 29	6 14 45	4°37'19	10♊24	19° 1	26°40	21°26	18°31	6° 0	3°38	24°28	27°18	19°32	21°14	28°37	n.a.	T 29
F 30	6 18 42	5°38'18	25°39	20°32	27°55	21°47	18°23	6° 7	3°37	24°30	27°18	19°25	21°11	28°43	n.a.	F 30
S 31	6 22 38	6♑39'16	10♋58	22♐ 4	29♑10	22♍ 7	18♋16	6♐13	3♍36	24♑33	27♓19	19♒20	21♒ 8	28♐50	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21 s34	25n43	4n56	13 s44	2n39	24 s31	1 s 5	10n 1	2n12	22n42	0n42	19 s44	1n15	10n59	0n47	21 s51	0 s13	16 s50	17 s16	14 s22	14 s 6	27 s58			n.a.
F 2	21 45	27 38	4 31	14 2	2 33	24 38	1 6	9 51	2 13	22 43	0 42	19 45	1 15	10 59	0 47	21 51	0 13	16 50	17 15	14 25	14 7	27 58			n.a.
S 3	21 55	27 27	3 47	14 22	2 26	24 43	1 8	9 41	2 14	22 43	0 42	19 47	1 15	10 59	0 47	21 50	0 13	16 50	17 15	14 28	14 8	27 57			n.a.
S 4	22 4	25 15	2 47	14 43	2 19	24 48	1 10	9 31	2 15	22 44	0 42	19 48	1 15	10 59	0 47	21 50	0 13	16 50	17 15	14 30	14 9	27 57			n.a.
M 5	22 14	21 22	1 38	15 6	2 12	24 52	1 12	9 21	2 16	22 45	0 43	19 49	1 15	10 59	0 47	21 50	0 13	16 50	17 14	14 32	14 10	27 57			n.a.
T 6	22 22	16 19	0 24	15 29	2 4	24 55	1 13	9 12	2 17	22 46	0 43	19 51	1 15	10 58	0 47	21 49	0 13	16 49	17 14	14 32	14 11	27 56			n.a.
W 7	22 31	10 34	0 s49	15 54	1 56	24 58	1 15	9 2	2 18	22 47	0 43	19 52	1 15	10 58	0 47	21 49	0 13	16 49	17 13	14 32	14 12	27 56			n.a.
T 8	22 39	4 31	1 58	16 19	1 48	24 59	1 16	8 53	2 19	22 48	0 43	19 54	1 15	10 58	0 47	21 49	0 13	16 49	17 13	14 32	14 13	27 56			n.a.
F 9	22 46	1 s33	2 58	16 45	1 40	25 0	1 18	8 43	2 20	22 49	0 43	19 55	1 15	10 58	0 47	21 48	0 13	16 49	17 13	14 32	14 14	27 56			n.a.
S 10	22 53	7 25	3 48	17 11	1 32	25 0	1 19	8 34	2 21	22 50	0 44	19 56	1 15	10 58	0 47	21 48	0 13	16 48	17 12	14 33	14 15	27 55			n.a.
S 11	23 0	12 52	4 26	17 37	1 24	25 0	1 21	8 24	2 22	22 51	0 44	19 58	1 15	10 58	0 47	21 48	0 13	16 48	17 12	14 35	14 16	27 55			n.a.
M12	23 6	17 44	4 50	18 3	1 15	24 58	1 22	8 15	2 23	22 52	0 44	19 59	1 15	10 58	0 47	21 48	0 13	16 48	17 12	14 38	14 17	27 55			n.a.
T 13	23 12	21 50	5 2	18 29	1 7	24 56	1 23	8 6	2 24	22 53	0 44	20 0	1 15	10 58	0 47	21 47	0 13	16 47	17 11	14 41	14 18	27 54			n.a.
W14	23 17	24 58	5 0	18 55	0 59	24 53	1 25	7 57	2 25	22 54	0 45	20 2	1 15	10 58	0 47	21 47	0 13	16 47	17 11	14 45	14 19	27 54			n.a.
T 15	23 22	26 59	4 45	19 21	0 50	24 49	1 26	7 48	2 26	22 55	0 45	20 3	1 15	10 58	0 47	21 46	0 13	16 47	17 11	14 49	14 20	27 54			n.a.
F 16	23 26	27 47	4 17	19 46	0 42	24 44	1 27	7 39	2 27	22 57	0 45	20 4	1 15	10 59	0 47	21 46	0 13	16 46	17 10	14 53	14 21	27 53			n.a.
S 17	23 30	27 17	3 38	20 11	0 34	24 39	1 28	7 30	2 28	22 58	0 45	20 6	1 15	10 59	0 47	21 46	0 13	16 46	17 10	14 56	14 23	27 53			n.a.
S 18	23 33	25 32	2 50	20 35	0 26	24 33	1 29	7 22	2 29	22 59	0 45	20 7	1 15	10 59	0 47	21 45	0 13	16 46	17 9	14 59	14 24	27 53			n.a.
M19	23 36	22 40	1 54	20 59	0 18	24 26	1 30	7 13	2 30	23 0	0 46	20 8	1 15	10 59	0 47	21 45	0 13	16 45	17 9	15 0	14 25	27 52			n.a.
T 20	23 38	18 48	0 53	21 21	0 10	24 19	1 31	7 5	2 31	23 1	0 46	20 9	1 15	10 59	0 47	21 45	0 13	16 45	17 9	15 1	14 26	27 52			n.a.
W21	23 40	14 10	0n11	21 44	0 2	24 10	1 32	6 56	2 32	23 2	0 46	20 11	1 15	10 59	0 47	21 44	0 13	16 45	17 8	15 2	14 27	27 51			n.a.
T 22	23 41	8 53	1 17	22 5	0 s 5	24 1	1 32	6 48	2 33	23 4	0 46	20 12	1 15	11 0	0 47	21 44	0 13	16 44	17 8	15 1	14 28	27 51			n.a.
F 23	23 42	3 10	2 19	22 26	0 12	23 51	1 33	6 40	2 34	23 5	0 46	20 13	1 15	11 0	0 47	21 44	0 13	16 44	17 8	15 1	14 29	27 51			n.a.
S 24	23 43	2n50	3 17	22 45	0 20	23 41	1 34	6 32	2 35	23 6	0 47	20 14	1 14	11 0	0 48	21 43	0 13	16 43	17 7	15 1	14 30	27 50			n.a.
S 25	23 43	8 53	4 6	23 4	0 27	23 30	1 34	6 24	2 37	23 7	0 47	20 15	1 14	11 0	0 48	21 43	0 13	16 43	17 7	15 1	14 31	27 50			n.a.
M26	23 42	14 44	4 43	23 22	0 34	23 18	1 35	6 16	2 38	23 8	0 47	20 17	1 14	11 1	0 48	21 43	0 13	16 43	17 6	15 2	14 32	27 49			n.a.
T 27	23 41	20 1	5 4	23 38	0 40	23 5	1 35	6 8	2 39	23 10	0 47	20 18	1 14	11 1	0 48	21 42	0 13	16 42	17 6	15 3	14 33	27 49			n.a.
W28	23 40	24 17	5 7	23 54	0 47	22 52	1 35	6 1	2 40	23 11	0 47	20 19	1 14	11 1	0 48	21 42	0 13	16 42	17 6	15 5	14 34	27 48			n.a.
T 29	23 38	27 1	4 48	24 8	0 53	22 37	1 36	5 54	2 41	23 12	0 47	20 20	1 14	11 2	0 48	21 41	0 13	16 41	17 5	15 8	14 35	27 48			n.a.
F 30	23 35	27 47	4 9	24 21	0 59	22 23	1 36	5 46	2 42	23 13	0 48	20 21	1 14	11 2	0 48	21 41	0 13	16 41	17 5	15 10	14 36	27 47			n.a.
S 31	23 s33	26n27	3n12	24 s33	1 s 5	22 s 7	1 s36	5n39	2n43	23n14	0n48	20 s22	1n14	11n 3	0n48	21 s41	0 s13	16 s40	17 s 5	15 s12	14 s37	27 s47			n.a.

Julian Day Number = 1672813.5, Delta T = 03h19m38s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'14, Lahiri = - 5°47'13 Julian Calendar 1 Dec. 134 BCE == Greg. Calendar 28 Nov. 134 BCE

The year -133 astronomical counting style corresponds to year 134 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

JANUARY 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 26 35	7♑40'12	26♋10	23♐37	0♒24	22♍27	18°R 8	6♐19	3°R35	24♑35	27♓19	19°R16	21♒ 5	28♐57	n.a.	S 1
M 2	6 30 31	8°41'08	11♌ 4	25°11	1°39	22°47	18♋ 0	6°26	3♍34	24°37	27°20	19♒14	21° 2	29° 3	n.a.	M 2
T 3	6 34 28	9°42'02	25°33	26°45	2°53	23° 6	17°52	6°32	3°33	24°39	27°20	19°D14	20°59	29°10	n.a.	T 3
W 4	6 38 25	10°42'56	9♍36	28°20	4° 8	23°25	17°44	6°38	3°31	24°41	27°20	19°15	20°55	29°17	n.a.	W 4
T 5	6 42 21	11°43'48	23°10	29°55	5°22	23°43	17°37	6°45	3°30	24°44	27°21	19°16	20°52	29°24	n.a.	T 5
F 6	6 46 18	12°44'40	6♎18	1♑32	6°37	24° 1	17°29	6°51	3°29	24°46	27°21	19°17	20°49	29°30	n.a.	F 6
S 7	6 50 14	13°45'30	19° 3	3° 9	7°51	24°19	17°21	6°57	3°28	24°48	27°22	19°R17	20°46	29°37	n.a.	S 7
S 8	6 54 11	14°46'19	1♏30	4°47	9° 6	24°36	17°13	7° 3	3°26	24°50	27°22	19°16	20°43	29°44	n.a.	S 8
M 9	6 58 7	15°47'07	13°42	6°25	10°20	24°53	17° 5	7° 9	3°25	24°53	27°23	19°13	20°40	29°50	n.a.	M 9
T 10	7 2 4	16°47'54	25°44	8° 5	11°34	25° 9	16°57	7°15	3°23	24°55	27°23	19° 8	20°36	29°57	n.a.	T 10
W11	7 6 0	17°48'40	7♐38	9°45	12°49	25°25	16°49	7°21	3°22	24°57	27°24	19° 3	20°33	0♑ 4	n.a.	W11
T 12	7 9 57	18°49'25	19°29	11°26	14° 3	25°40	16°41	7°27	3°20	24°59	27°25	18°57	20°30	0°10	n.a.	T 12
F 13	7 13 54	19°50'08	1♑19	13° 8	15°17	25°55	16°33	7°33	3°19	25° 2	27°25	18°51	20°27	0°17	n.a.	F 13
S 14	7 17 50	20°50'50	13°10	14°50	16°32	26°10	16°25	7°38	3°17	25° 4	27°26	18°47	20°24	0°24	n.a.	S 14
S 15	7 21 47	21°51'30	25° 3	16°34	17°46	26°24	16°17	7°44	3°15	25° 6	27°27	18°43	20°20	0°31	n.a.	S 15
M16	7 25 43	22°52'09	7♒ 1	18°18	19° 0	26°37	16° 9	7°50	3°13	25° 8	27°27	18°41	20°17	0°37	n.a.	M16
T 17	7 29 40	23°52'46	19° 5	20° 3	20°14	26°50	16° 1	7°55	3°12	25°11	27°28	18°D41	20°14	0°44	n.a.	T 17
W18	7 33 36	24°53'21	1♓18	21°49	21°28	27° 2	15°54	8° 1	3°10	25°13	27°29	18°41	20°11	0°51	n.a.	W18
T 19	7 37 33	25°53'54	13°41	23°36	22°42	27°14	15°46	8° 6	3° 8	25°15	27°29	18°43	20° 8	0°57	n.a.	T 19
F 20	7 41 29	26°54'25	26°18	25°24	23°56	27°26	15°38	8°12	3° 6	25°18	27°30	18°44	20° 5	1° 4	n.a.	F 20
S 21	7 45 26	27°54'55	9♈12	27°13	25°10	27°36	15°30	8°17	3° 4	25°20	27°31	18°46	20° 1	1°11	n.a.	S 21
S 22	7 49 23	28°55'22	22°25	29° 3	26°24	27°46	15°23	8°22	3° 2	25°22	27°32	18°46	19°58	1°17	n.a.	S 22
M23	7 53 19	29°55'48	6♉ 1	0♒53	27°38	27°56	15°15	8°28	3° 0	25°24	27°33	18°R46	19°55	1°24	n.a.	M23
T 24	7 57 16	0♒56'11	19°59	2°44	28°52	28° 5	15° 8	8°33	2°58	25°27	27°33	18°46	19°52	1°31	n.a.	T 24
W25	8 1 12	1°56'32	4♊21	4°36	0♓ 5	28°13	15° 0	8°38	2°56	25°29	27°34	18°44	19°49	1°37	n.a.	W25
T 26	8 5 9	2°56'52	19° 2	6°29	1°19	28°21	14°53	8°43	2°54	25°31	27°35	18°42	19°46	1°44	n.a.	T 26
F 27	8 9 5	3°57'09	3♋58	8°22	2°33	28°28	14°46	8°48	2°52	25°33	27°36	18°40	19°42	1°51	n.a.	F 27
S 28	8 13 2	4°57'24	19° 1	10°16	3°46	28°35	14°39	8°53	2°50	25°36	27°37	18°38	19°39	1°57	n.a.	S 28
S 29	8 16 58	5°57'37	4♌ 3	12°10	5° 0	28°41	14°32	8°58	2°47	25°38	27°38	18°37	19°36	2° 4	n.a.	S 29
M30	8 20 55	6°57'49	18°54	14° 5	6°13	28°46	14°25	9° 3	2°45	25°40	27°39	18°D37	19°33	2°11	n.a.	M30
T 31	8 24 52	7♒57'58	3♍27	15♒59	7♓27	28♍51	14♋18	9♐ 7	2♍43	25♑42	27♓40	18♒37	19♒30	2♑18	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	23s29	23n 9	2n 2	24s44	1s11	21s51	1s36	5n32	2n44	23n16	0n48	20s23	1n14	11n 3	0n48	21s40	0s13	16s40	17s 4	15s13	14s38	27s46			n.a.
M 2	23 25	18 22	0 44	24 54	1 16	21 35	1 36	5 25	2 45	23 17	0 48	20 24	1 14	11 3	0 48	21 40	0 13	16 39	17 4	15 14	14 39	27 46			n.a.
T 3	23 21	12 37	0s34	25 2	1 21	21 17	1 36	5 19	2 46	23 18	0 48	20 26	1 14	11 4	0 48	21 40	0 13	16 39	17 4	15 14	14 40	27 46			n.a.
W 4	23 17	6 23	1 49	25 9	1 26	21 0	1 36	5 12	2 48	23 19	0 48	20 27	1 14	11 4	0 48	21 39	0 13	16 38	17 3	15 13	14 41	27 45			n.a.
T 5	23 11	0 5	2 54	25 14	1 31	20 41	1 36	5 6	2 49	23 20	0 49	20 28	1 14	11 5	0 48	21 39	0 13	16 38	17 3	15 13	14 42	27 44			n.a.
F 6	23 6	6s 1	3 48	25 18	1 35	20 22	1 35	5 0	2 50	23 22	0 49	20 29	1 14	11 5	0 48	21 38	0 13	16 37	17 2	15 12	14 43	27 44			n.a.
S 7	23 0	11 41	4 30	25 20	1 40	20 2	1 35	4 54	2 51	23 23	0 49	20 30	1 14	11 6	0 48	21 38	0 13	16 37	17 2	15 12	14 44	27 43			n.a.
S 8	22 53	16 45	4 57	25 21	1 43	19 42	1 34	4 48	2 52	23 24	0 49	20 31	1 14	11 6	0 48	21 38	0 13	16 36	17 2	15 13	14 45	27 43			n.a.
M 9	22 46	21 3	5 10	25 20	1 47	19 21	1 34	4 42	2 53	23 25	0 49	20 32	1 14	11 7	0 48	21 37	0 13	16 36	17 1	15 14	14 46	27 42			n.a.
T 10	22 39	24 25	5 10	25 18	1 50	19 0	1 33	4 37	2 54	23 26	0 49	20 33	1 14	11 8	0 48	21 37	0 14	16 35	17 1	15 15	14 47	27 42			n.a.
W11	22 31	26 41	4 56	25 13	1 53	18 38	1 33	4 31	2 56	23 27	0 49	20 34	1 14	11 8	0 48	21 36	0 14	16 35	17 1	15 17	14 48	27 41			n.a.
T 12	22 22	27 46	4 29	25 8	1 55	18 16	1 32	4 26	2 57	23 29	0 49	20 35	1 14	11 9	0 48	21 36	0 14	16 34	17 0	15 19	14 49	27 41			n.a.
F 13	22 14	27 33	3 51	25 0	1 57	17 53	1 31	4 21	2 58	23 30	0 50	20 36	1 14	11 9	0 48	21 36	0 14	16 34	17 0	15 21	14 50	27 40			n.a.
S 14	22 5	26 5	3 3	24 51	1 59	17 30	1 30	4 17	2 59	23 31	0 50	20 37	1 14	11 10	0 48	21 35	0 14	16 33	17 0	15 22	14 51	27 39			n.a.
S 15	21 55	23 26	2 6	24 40	2 0	17 6	1 29	4 12	3 0	23 32	0 50	20 37	1 15	11 11	0 48	21 35	0 14	16 32	16 59	15 23	14 52	27 39			n.a.
M16	21 45	19 45	1 4	24 27	2 1	16 42	1 28	4 8	3 1	23 33	0 50	20 38	1 15	11 11	0 48	21 34	0 14	16 32	16 59	15 24	14 53	27 38			n.a.
T 17	21 35	15 14	0n 2	24 12	2 2	16 17	1 27	4 4	3 3	23 34	0 50	20 39	1 15	11 12	0 48	21 34	0 14	16 31	16 59	15 24	14 54	27 38			n.a.
W18	21 24	10 4	1 9	23 56	2 2	15 52	1 26	4 0	3 4	23 35	0 50	20 40	1 15	11 13	0 48	21 34	0 14	16 31	16 58	15 24	14 55	27 37			n.a.
T 19	21 13	4 26	2 13	23 37	2 2	15 26	1 25	3 56	3 5	23 36	0 50	20 41	1 15	11 13	0 48	21 33	0 14	16 30	16 58	15 23	14 56	27 36			n.a.
F 20	21 1	1n27	3 13	23 17	2 1	15 0	1 23	3 53	3 6	23 37	0 50	20 42	1 15	11 14	0 48	21 33	0 14	16 30	16 58	15 23	14 57	27 36			n.a.
S 21	20 49	7 25	4 4	22 54	1 59	14 34	1 22	3 49	3 7	23 38	0 50	20 43	1 15	11 15	0 49	21 32	0 14	16 29	16 57	15 22	14 58	27 35			n.a.
S 22	20 37	13 12	4 43	22 30	1 58	14 7	1 20	3 46	3 8	23 39	0 51	20 44	1 15	11 16	0 49	21 32	0 14	16 28	16 57	15 22	14 59	27 35			n.a.
M23	20 24	18 31	5 8	22 4	1 55	13 40	1 19	3 43	3 10	23 40	0 51	20 44	1 15	11 16	0 49	21 31	0 14	16 28	16 57	15 22	15 0	27 34			n.a.
T 24	20 11	23 0	5 16	21 36	1 52	13 12	1 17	3 41	3 11	23 41	0 51	20 45	1 15	11 17	0 49	21 31	0 14	16 27	16 57	15 22	15 1	27 33			n.a.
W25	19 57	26 14	5 4	21 5	1 49	12 45	1 16	3 39	3 12	23 42	0 51	20 46	1 15	11 18	0 49	21 31	0 14	16 26	16 56	15 23	15 2	27 33			n.a.
T 26	19 43	27 47	4 33	20 33	1 45	12 17	1 14	3 36	3 13	23 43	0 51	20 47	1 15	11 19	0 49	21 30	0 14	16 26	16 56	15 24	15 3	27 32			n.a.
F 27	19 29	27 22	3 43	19 59	1 40	11 48	1 12	3 35	3 14	23 44	0 51	20 47	1 15	11 19	0 49	21 30	0 14	16 25	16 56	15 24	15 4	27 31			n.a.
S 28	19 15	24 56	2 37	19 23	1 35	11 19	1 10	3 33	3 15	23 45	0 51	20 48	1 15	11 20	0 49	21 29	0 14	16 25	16 55	15 25	15 5	27 30			n.a.
S 29	19 0	20 45	1 20	18 46	1 29	10 51	1 8	3 32	3 16	23 45	0 51	20 49	1 15	11 21	0 49	21 29	0 14	16 24	16 55	15 25	15 7	27 30			n.a.
M30	18 45	15 18	0s 2	18 6	1 23	10 21	1 6	3 31	3 17	23 46	0 51	20 50	1 15	11 22	0 49	21 29	0 14	16 23	16 55	15 25	15 8	27 29			n.a.
T 31	18s29	9n 5	1s21	17s25	1s15	9s52	1s 4	3n30	3n18	23n47	0n51	20s50	1n15	11n23	0n49	21s28	0s14	16s23	16s54	15s25	15s 9	27s28			n.a.

Julian Day Number = 1672844.5, Delta T = 03h19m37s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'10, Lahiri = - 5°47'09 Julian Calendar 1 Jan. 133 BCE == Greg. Calendar 29 Dec. 134 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

FEBRUARY 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 28 48	8♒58'05	17♍37	17♒54	8♓40	28♍54	14°R12	9♐12	2°R41	25♉45	27♓41	18♒38	19♒26	2♉24	n.a.	W 1
T 2	8 32 45	9°58'11	1♎21	19°48	9°54	28°58	14♋ 5	9°17	2♍38	25°47	27°42	18°39	19°23	2°31	n.a.	T 2
F 3	8 36 41	10°58'15	14°39	21°42	11° 7	29° 0	13°59	9°21	2°36	25°49	27°43	18°40	19°20	2°38	n.a.	F 3
S 4	8 40 38	11°58'17	27°31	23°34	12°20	29° 2	13°52	9°26	2°34	25°51	27°44	18°40	19°17	2°44	n.a.	S 4
S 5	8 44 34	12°58'18	10♏ 3	25°26	13°33	29° 3	13°46	9°30	2°31	25°54	27°45	18°R41	19°14	2°51	n.a.	S 5
M 6	8 48 31	13°58'17	22°17	27°16	14°46	29°R 3	13°40	9°34	2°29	25°56	27°46	18°40	19°11	2°58	n.a.	M 6
T 7	8 52 27	14°58'14	4♐19	29° 3	15°59	29° 3	13°34	9°38	2°27	25°58	27°47	18°40	19° 7	3° 4	n.a.	T 7
W 8	8 56 24	15°58'09	16°13	0♓48	17°12	29° 2	13°28	9°43	2°24	26° 0	27°48	18°40	19° 4	3°11	n.a.	W 8
T 9	9 0 21	16°58'03	28° 2	2°30	18°25	29° 0	13°23	9°47	2°22	26° 2	27°49	18°40	19° 1	3°18	n.a.	T 9
F 10	9 4 17	17°57'55	9♉52	4° 9	19°38	28°57	13°17	9°51	2°19	26° 4	27°50	18°39	18°58	3°24	n.a.	F 10
S 11	9 8 14	18°57'45	21°44	5°43	20°51	28°54	13°12	9°54	2°17	26° 7	27°51	18°D39	18°55	3°31	n.a.	S 11
S 12	9 12 10	19°57'33	3♒43	7°13	22° 4	28°50	13° 7	9°58	2°14	26° 9	27°52	18°40	18°52	3°38	n.a.	S 12
M13	9 16 7	20°57'18	15°51	8°38	23°17	28°45	13° 2	10° 2	2°12	26°11	27°54	18°R40	18°48	3°44	n.a.	M13
T 14	9 20 3	21°57'02	28° 8	9°57	24°29	28°39	12°57	10° 6	2° 9	26°13	27°55	18°40	18°45	3°51	n.a.	T 14
W15	9 24 0	22°56'44	10♓37	11°11	25°42	28°32	12°52	10° 9	2° 7	26°15	27°56	18°39	18°42	3°58	n.a.	W15
T 16	9 27 56	23°56'23	23°19	12°18	26°54	28°25	12°48	10°13	2° 4	26°17	27°57	18°39	18°39	4° 5	n.a.	T 16
F 17	9 31 53	24°56'00	6♈14	13°17	28° 7	28°17	12°43	10°16	2° 1	26°19	27°58	18°38	18°36	4°11	n.a.	F 17
S 18	9 35 49	25°55'35	19°23	14°10	29°19	28° 8	12°39	10°19	1°59	26°21	27°59	18°37	18°32	4°18	n.a.	S 18
S 19	9 39 46	26°55'07	2♉46	14°56	0♈31	27°58	12°35	10°23	1°56	26°23	28° 1	18°36	18°29	4°25	n.a.	S 19
M20	9 43 43	27°54'37	16°25	15°33	1°44	27°48	12°31	10°26	1°54	26°25	28° 2	18°36	18°26	4°31	n.a.	M20
T 21	9 47 39	28°54'05	0♊19	16° 3	2°56	27°37	12°28	10°29	1°51	26°27	28° 3	18°D36	18°23	4°38	n.a.	T 21
W22	9 51 36	29°53'30	14°27	16°25	4° 8	27°25	12°24	10°32	1°48	26°29	28° 4	18°36	18°20	4°45	n.a.	W22
T 23	9 55 32	0♓52'53	28°49	16°39	5°20	27°12	12°21	10°35	1°46	26°31	28° 6	18°37	18°17	4°51	n.a.	T 23
F 24	9 59 29	1°52'13	13♋20	16°R45	6°32	26°59	12°18	10°37	1°43	26°33	28° 7	18°38	18°13	4°58	n.a.	F 24
S 25	10 3 25	2°51'31	27°56	16°43	7°43	26°45	12°15	10°40	1°41	26°35	28° 8	18°39	18°10	5° 5	n.a.	S 25
S 26	10 7 22	3°50'47	12♌34	16°34	8°55	26°30	12°12	10°43	1°38	26°37	28° 9	18°R39	18° 7	5°11	n.a.	S 26
M27	10 11 18	4°50'00	27° 5	16°18	10° 7	26°15	12° 9	10°45	1°35	26°39	28°11	18°39	18° 4	5°18	n.a.	M27
T 28	10 15 15	5°49'11	11♍25	15°55	11°18	25°59	12° 7	10°48	1°33	26°41	28°12	18°38	18° 1	5°25	n.a.	T 28
W29	10 19 12	6♓48'20	25♍29	15♓26	12♈30	25♍42	12♋ 5	10♐50	1♍30	26♉43	28♓13	18♒36	17♒57	5♉31	n.a.	W29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s13	2n35	2s34	16s43	1s 7	9s22	1s 2	3n29	3n20	23n48	0n51	20s51	1n15	11n24	0n49	21s28	0s14	16s22	16s54	15s25	15s10	27s28		n.a.
T 2	17 57	3s50	3 35	15 58	0 59	8 52	1 0	3 29	3 21	23 48	0 51	20 52	1 15	11 25	0 49	21 27	0 14	16 21	16 54	15 24	15 11	27 27		n.a.
F 3	17 41	9 52	4 23	15 13	0 50	8 22	0 58	3 29	3 22	23 49	0 51	20 52	1 15	11 25	0 49	21 27	0 14	16 21	16 54	15 24	15 12	27 26		n.a.
S 4	17 24	15 18	4 56	14 27	0 40	7 51	0 55	3 29	3 23	23 50	0 51	20 53	1 15	11 26	0 49	21 27	0 14	16 20	16 53	15 24	15 13	27 25		n.a.
S 5	17 7	19 57	5 14	13 39	0 29	7 21	0 53	3 29	3 24	23 51	0 51	20 53	1 15	11 27	0 49	21 26	0 14	16 19	16 53	15 24	15 14	27 25		n.a.
M 6	16 49	23 39	5 17	12 51	0 18	6 50	0 50	3 30	3 25	23 51	0 51	20 54	1 15	11 28	0 49	21 26	0 14	16 19	16 53	15 24	15 15	27 24		n.a.
T 7	16 32	26 15	5 6	12 2	0 7	6 19	0 48	3 31	3 26	23 52	0 51	20 55	1 15	11 29	0 49	21 25	0 14	16 18	16 53	15 24	15 16	27 23		n.a.
W 8	16 14	27 39	4 42	11 14	0n 5	5 48	0 45	3 32	3 26	23 53	0 51	20 55	1 15	11 30	0 49	21 25	0 14	16 18	16 52	15 24	15 17	27 22		n.a.
T 9	15 56	27 47	4 6	10 25	0 18	5 17	0 43	3 34	3 27	23 53	0 51	20 56	1 15	11 31	0 49	21 25	0 14	16 17	16 52	15 24	15 18	27 22		n.a.
F 10	15 37	26 39	3 19	9 37	0 31	4 46	0 40	3 36	3 28	23 54	0 51	20 56	1 15	11 32	0 49	21 24	0 14	16 16	16 52	15 24	15 19	27 21		n.a.
S 11	15 19	24 18	2 24	8 50	0 45	4 14	0 37	3 38	3 29	23 54	0 51	20 57	1 15	11 33	0 49	21 24	0 14	16 16	16 52	15 24	15 20	27 20		n.a.
S 12	15 0	20 52	1 22	8 4	0 58	3 43	0 35	3 40	3 30	23 55	0 52	20 57	1 15	11 33	0 49	21 23	0 14	16 15	16 51	15 24	15 21	27 19		n.a.
M13	14 40	16 31	0 16	7 19	1 12	3 11	0 32	3 43	3 31	23 55	0 52	20 58	1 15	11 34	0 49	21 23	0 14	16 14	16 51	15 24	15 22	27 18		n.a.
T 14	14 21	11 26	0n52	6 36	1 26	2 39	0 29	3 46	3 31	23 56	0 52	20 58	1 16	11 35	0 49	21 23	0 14	16 14	16 51	15 24	15 23	27 17		n.a.
W15	14 1	5 50	1 59	5 55	1 39	2 8	0 26	3 49	3 32	23 56	0 52	20 59	1 16	11 36	0 49	21 22	0 14	16 13	16 51	15 24	15 24	27 17		n.a.
T 16	13 42	0n 5	3 1	5 17	1 53	1 36	0 23	3 53	3 33	23 57	0 52	20 59	1 16	11 37	0 49	21 22	0 14	16 12	16 51	15 25	15 25	27 16		n.a.
F 17	13 22	6 5	3 54	4 42	2 6	1 4	0 20	3 57	3 33	23 57	0 52	21 0	1 16	11 38	0 49	21 21	0 14	16 12	16 50	15 25	15 26	27 15		n.a.
S 18	13 1	11 55	4 37	4 10	2 19	0 32	0 17	4 1	3 34	23 58	0 52	21 0	1 16	11 39	0 49	21 21	0 14	16 11	16 50	15 25	15 27	27 14		n.a.
S 19	12 41	17 20	5 5	3 41	2 31	0 0	0 14	4 5	3 34	23 58	0 52	21 1	1 16	11 40	0 49	21 21	0 14	16 10	16 50	15 25	15 28	27 13		n.a.
M20	12 20	21 59	5 17	3 15	2 43	0n32	0 11	4 10	3 35	23 58	0 52	21 1	1 16	11 41	0 49	21 20	0 14	16 10	16 50	15 25	15 29	27 12		n.a.
T 21	11 59	25 30	5 10	2 54	2 54	1 4	0 8	4 14	3 35	23 59	0 52	21 1	1 16	11 42	0 49	21 20	0 14	16 9	16 50	15 26	15 30	27 12		n.a.
W22	11 38	27 31	4 45	2 36	3 4	1 35	0 4	4 19	3 35	23 59	0 52	21 2	1 16	11 43	0 49	21 20	0 14	16 8	16 49	15 25	15 30	27 11		n.a.
T 23	11 17	27 45	4 2	2 23	3 13	2 7	0 1	4 25	3 35	23 59	0 51	21 2	1 16	11 44	0 49	21 19	0 14	16 8	16 49	15 25	15 31	27 10		n.a.
F 24	10 56	26 5	3 3	2 13	3 20	2 39	0n 2	4 30	3 36	23 59	0 51	21 2	1 16	11 45	0 49	21 19	0 14	16 7	16 49	15 25	15 32	27 9		n.a.
S 25	10 34	22 39	1 52	2 8	3 27	3 11	0 5	4 36	3 36	24 0	0 51	21 3	1 16	11 46	0 49	21 19	0 14	16 6	16 49	15 25	15 33	27 8		n.a.
S 26	10 13	17 46	0 34	2 7	3 32	3 42	0 9	4 42	3 36	24 0	0 51	21 3	1 16	11 47	0 49	21 18	0 14	16 6	16 49	15 24	15 34	27 7		n.a.
M27	9 51	11 54	0s46	2 10	3 35	4 14	0 12	4 48	3 36	24 0	0 51	21 3	1 16	11 48	0 49	21 18	0 14	16 5	16 49	15 24	15 35	27 6		n.a.
T 28	9 29	5 28	2 3	2 18	3 37	4 45	0 15	4 54	3 36	24 0	0 51	21 4	1 16	11 48	0 49	21 18	0 14	16 4	16 48	15 25	15 36	27 5		n.a.
W29	9s 7	1s 5	3s10	2s29	3n37	5n17	0n19	5n 1	3n35	24n 1	0n51	21s 4	1n16	11n49	0n49	21s17	0s14	16s 4	16s48	15s25	15s37	27s 4		n.a.

Julian Day Number = 1672875.5, Delta T = 03h19m36s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'05, Lahiri = - 5°47'05 Julian Calendar 1 Feb. 133 BCE == Greg. Calendar 29 Jan. 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

MARCH 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 23 8	7♓47'27	9♎11	14°R51	13♈41	25°R25	12°R 3	10♐52	1°R28	26♉44	28♓15	18°R34	17♒54	5♉38	n.a.	T 1
F 2	10 27 5	8°46'32	22°31	14♓12	14°52	25♍ 7	12♋ 1	10°54	1♍25	26°46	28°16	18♒31	17°51	5°45	n.a.	F 2
S 3	10 31 1	9°45'35	5♏28	13°30	16° 3	24°48	11°59	10°57	1°23	26°48	28°17	18°28	17°48	5°51	n.a.	S 3
S 4	10 34 58	10°44'36	18° 4	12°44	17°14	24°29	11°58	10°58	1°20	26°50	28°19	18°26	17°45	5°58	n.a.	S 4
M 5	10 38 54	11°43'35	0♐22	11°57	18°25	24°10	11°56	11° 0	1°17	26°52	28°20	18°24	17°42	6° 5	n.a.	M 5
T 6	10 42 51	12°42'33	12°26	11° 8	19°36	23°50	11°55	11° 2	1°15	26°53	28°21	18°D23	17°38	6°11	n.a.	T 6
W 7	10 46 47	13°41'28	24°21	10°20	20°47	23°29	11°55	11° 4	1°12	26°55	28°23	18°24	17°35	6°18	n.a.	W 7
T 8	10 50 44	14°40'22	6♉11	9°33	21°58	23° 8	11°54	11° 5	1°10	26°57	28°24	18°25	17°32	6°25	n.a.	T 8
F 9	10 54 41	15°39'14	18° 1	8°47	23° 8	22°47	11°53	11° 7	1° 7	26°58	28°25	18°27	17°29	6°32	n.a.	F 9
S 10	10 58 37	16°38'04	29°56	8° 4	24°19	22°25	11°53	11° 8	1° 5	27° 0	28°27	18°29	17°26	6°38	n.a.	S 10
S 11	11 2 34	17°36'52	12♒ 1	7°24	25°29	22° 3	11°D53	11°10	1° 2	27° 2	28°28	18°30	17°23	6°45	n.a.	S 11
M12	11 6 30	18°35'38	24°17	6°48	26°40	21°41	11°53	11°11	1° 0	27° 3	28°30	18°R30	17°19	6°52	n.a.	M12
T 13	11 10 27	19°34'22	6♓49	6°16	27°50	21°19	11°53	11°12	0°58	27° 5	28°31	18°28	17°16	6°58	n.a.	T 13
W14	11 14 23	20°33'04	19°36	5°49	29° 0	20°56	11°54	11°13	0°55	27° 6	28°32	18°25	17°13	7° 5	n.a.	W14
T 15	11 18 20	21°31'44	2♈39	5°27	0♉10	20°34	11°54	11°14	0°53	27° 8	28°34	18°21	17°10	7°12	n.a.	T 15
F 16	11 22 16	22°30'22	15°58	5°10	1°20	20°11	11°55	11°15	0°50	27° 9	28°35	18°16	17° 7	7°18	n.a.	F 16
S 17	11 26 13	23°28'58	29°32	4°58	2°29	19°48	11°56	11°15	0°48	27°11	28°36	18°10	17° 3	7°25	n.a.	S 17
S 18	11 30 9	24°27'31	13♉17	4°52	3°39	19°25	11°57	11°16	0°46	27°12	28°38	18° 5	17° 0	7°32	n.a.	S 18
M19	11 34 6	25°26'03	27°11	4°D50	4°49	19° 3	11°58	11°16	0°43	27°14	28°39	18° 1	16°57	7°38	n.a.	M19
T 20	11 38 3	26°24'32	11♊13	4°54	5°58	18°40	12° 0	11°17	0°41	27°15	28°41	17°58	16°54	7°45	n.a.	T 20
W21	11 41 59	27°22'59	25°20	5° 2	7° 7	18°18	12° 2	11°17	0°39	27°16	28°42	17°D57	16°51	7°52	n.a.	W21
T 22	11 45 56	28°21'24	9♋30	5°16	8°16	17°56	12° 4	11°17	0°37	27°18	28°43	17°57	16°48	7°58	n.a.	T 22
F 23	11 49 52	29°19'46	23°42	5°34	9°25	17°34	12° 6	11°17	0°35	27°19	28°45	17°59	16°44	8° 5	n.a.	F 23
S 24	11 53 49	0♈18'06	7♌54	5°57	10°34	17°12	12° 8	11°R17	0°32	27°20	28°46	18° 0	16°41	8°12	n.a.	S 24
S 25	11 57 45	1°16'24	22° 4	6°24	11°43	16°51	12°10	11°17	0°30	27°22	28°48	18°R 0	16°38	8°18	n.a.	S 25
M26	12 1 42	2°14'40	6♍ 9	6°56	12°51	16°30	12°13	11°17	0°28	27°23	28°49	17°59	16°35	8°25	n.a.	M26
T 27	12 5 38	3°12'54	20° 5	7°31	14° 0	16°10	12°16	11°17	0°26	27°24	28°50	17°55	16°32	8°32	n.a.	T 27
W28	12 9 35	4°11'06	3♎49	8°11	15° 8	15°50	12°19	11°17	0°24	27°25	28°52	17°50	16°29	8°38	n.a.	W28
T 29	12 13 32	5° 9'16	17°18	8°54	16°16	15°30	12°22	11°16	0°22	27°26	28°53	17°42	16°25	8°45	n.a.	T 29
F 30	12 17 28	6° 7'24	0♏30	9°41	17°24	15°11	12°25	11°16	0°20	27°27	28°55	17°34	16°22	8°52	n.a.	F 30
S 31	12 21 25	7♈ 5'30	13♏23	10♓31	18♉32	14♍53	12♋29	11♐15	0♍18	27♉28	28♓56	17♒26	16♒19	8♉58	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	8s45	7s25	4s 4	2s44	3n35	5n48	0n22	5n 8	3n35	24n 1	0n51	21s 4	1n16	11n50	0n49	21s17	0s14	16s 3	16s48	15s26	15s38	27s 3			n.a.
F 2	8 22	13 14	4 43	3 2	3 32	6 19	0 25	5 14	3 35	24 1	0 51	21 5	1 16	11 51	0 49	21 16	0 14	16 2	16 48	15 27	15 39	27 2			n.a.
S 3	8 0	18 18	5 7	3 23	3 26	6 50	0 29	5 21	3 34	24 1	0 51	21 5	1 16	11 52	0 49	21 16	0 14	16 2	16 48	15 28	15 40	27 1			n.a.
S 4	7 37	22 26	5 15	3 47	3 20	7 21	0 32	5 29	3 34	24 1	0 51	21 5	1 17	11 53	0 49	21 16	0 14	16 1	16 48	15 29	15 41	27 0			n.a.
M 5	7 15	25 29	5 8	4 13	3 11	7 51	0 36	5 36	3 33	24 1	0 51	21 5	1 17	11 54	0 49	21 16	0 14	16 0	16 48	15 29	15 42	26 59			n.a.
T 6	6 52	27 18	4 48	4 41	3 1	8 22	0 39	5 43	3 32	24 1	0 51	21 5	1 17	11 55	0 49	21 15	0 14	16 0	16 48	15 29	15 43	26 58			n.a.
W 7	6 29	27 50	4 15	5 10	2 50	8 52	0 43	5 51	3 32	24 1	0 51	21 6	1 17	11 56	0 49	21 15	0 14	15 59	16 48	15 29	15 44	26 57			n.a.
T 8	6 6	27 6	3 32	5 39	2 37	9 22	0 46	5 58	3 31	24 1	0 51	21 6	1 17	11 57	0 49	21 15	0 14	15 59	16 47	15 29	15 45	26 56			n.a.
F 9	5 43	25 7	2 40	6 9	2 24	9 52	0 50	6 6	3 30	24 1	0 51	21 6	1 17	11 58	0 49	21 14	0 14	15 58	16 47	15 28	15 46	26 55			n.a.
S 10	5 20	22 1	1 40	6 39	2 9	10 21	0 53	6 14	3 29	24 1	0 51	21 6	1 17	11 59	0 49	21 14	0 14	15 57	16 47	15 28	15 47	26 54			n.a.
S 11	4 57	17 57	0 36	7 7	1 54	10 51	0 57	6 21	3 27	24 1	0 51	21 6	1 17	11 59	0 49	21 14	0 14	15 57	16 47	15 27	15 48	26 53			n.a.
M12	4 34	13 5	0n32	7 35	1 39	11 20	1 0	6 29	3 26	24 1	0 51	21 6	1 17	12 0	0 49	21 13	0 14	15 56	16 47	15 27	15 49	26 52			n.a.
T 13	4 10	7 35	1 39	8 2	1 23	11 49	1 4	6 37	3 25	24 1	0 51	21 6	1 17	12 1	0 49	21 13	0 14	15 55	16 47	15 28	15 50	26 51			n.a.
W14	3 47	1 41	2 42	8 27	1 7	12 17	1 7	6 44	3 23	24 1	0 51	21 6	1 17	12 2	0 49	21 13	0 14	15 55	16 47	15 29	15 51	26 50			n.a.
T 15	3 24	4n24	3 38	8 50	0 51	12 46	1 11	6 52	3 22	24 1	0 51	21 6	1 17	12 3	0 49	21 12	0 14	15 54	16 47	15 30	15 52	26 49			n.a.
F 16	3 0	10 24	4 23	9 11	0 35	13 14	1 14	7 0	3 20	24 1	0 51	21 7	1 17	12 4	0 49	21 12	0 14	15 54	16 47	15 32	15 53	26 48			n.a.
S 17	2 37	16 1	4 55	9 30	0 20	13 41	1 18	7 7	3 18	24 1	0 51	21 7	1 17	12 4	0 49	21 12	0 15	15 53	16 47	15 33	15 54	26 47			n.a.
S 18	2 14	20 55	5 10	9 46	0 4	14 9	1 21	7 14	3 17	24 1	0 51	21 7	1 17	12 5	0 49	21 12	0 15	15 52	16 47	15 35	15 55	26 46			n.a.
M19	1 50	24 43	5 7	10 0	0s10	14 36	1 24	7 22	3 15	24 0	0 51	21 7	1 17	12 6	0 49	21 11	0 15	15 52	16 47	15 36	15 56	26 45			n.a.
T 20	1 27	27 6	4 46	10 12	0 25	15 2	1 28	7 29	3 13	24 0	0 51	21 7	1 17	12 7	0 49	21 11	0 15	15 51	16 47	15 37	15 57	26 44			n.a.
W21	1 3	27 45	4 7	10 22	0 38	15 29	1 31	7 36	3 11	24 0	0 51	21 7	1 17	12 8	0 49	21 11	0 15	15 51	16 47	15 38	15 58	26 43			n.a.
T 22	0 40	26 35	3 14	10 29	0 51	15 55	1 34	7 43	3 9	24 0	0 50	21 7	1 18	12 8	0 49	21 11	0 15	15 50	16 47	15 37	15 59	26 42			n.a.
F 23	0 16	23 42	2 8	10 34	1 4	16 20	1 38	7 49	3 6	24 0	0 50	21 7	1 18	12 9	0 49	21 10	0 15	15 49	16 47	15 37	16 0	26 41			n.a.
S 24	0n 7	19 23	0 55	10 36	1 16	16 46	1 41	7 56	3 4	23 59	0 50	21 7	1 18	12 10	0 49	21 10	0 15	15 49	16 47	15 37	16 1	26 39			n.a.
S 25	0 31	13 58	0s22	10 36	1 27	17 10	1 44	8 2	3 2	23 59	0 50	21 6	1 18	12 11	0 49	21 10	0 15	15 48	16 47	15 37	16 2	26 38			n.a.
M26	0 54	7 52	1 37	10 34	1 37	17 35	1 48	8 8	2 59	23 59	0 50	21 6	1 18	12 11	0 49	21 10	0 15	15 48	16 47	15 37	16 3	26 37			n.a.
T 27	1 18	1 27	2 45	10 30	1 47	17 59	1 51	8 14	2 57	23 58	0 50	21 6	1 18	12 12	0 49	21 10	0 15	15 47	16 47	15 38	16 4	26 36			n.a.
W28	1 41	4s55	3 42	10 23	1 56	18 22	1 54	8 19	2 54	23 58	0 50	21 6	1 18	12 13	0 49	21 9	0 15	15 47	16 47	15 40	16 5	26 35			n.a.
T 29	2 4	10 57	4 25	10 14	2 4	18 45	1 57	8 24	2 52	23 58	0 50	21 6	1 18	12 14	0 49	21 9	0 15	15 46	16 47	15 42	16 6	26 34			n.a.
F 30	2 28	16 21	4 54	10 4	2 12	19 8	2 0	8 30	2 49	23 57	0 50	21 6	1 18	12 14	0 49	21 9	0 15	15 46	16 47	15 45	16 7	26 33			n.a.
S 31	2n51	20s53	5s 6	9s51	2s19	19n30	2n 3	8n34	2n46	23n57	0n50	21s 6	1n18	12n15	0n49	21s 9	0s15	15s45	16s47	15s47	16s 8	26s31			n.a.

Julian Day Number = 1672904.5, Delta T = 03h19m35s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°54'01, Lahiri = - 5°47'01 Julian Calendar 1 March 133 BCE == Greg. Calendar 27 Feb. 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

APRIL 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 25 21	8♈ 3'35	25♏57	11♓24	19♉40	14°R35	12♋33	11°R14	0°R16	27♑30	28♓57	17°R18	16♒16	9♑ 5	n.a.	S 1
M 2	12 29 18	9° 1'39	8♐15	12°21	20°47	14♍18	12°36	11♐13	0♍15	27°31	28°59	17♒12	16°13	9°12	n.a.	M 2
T 3	12 33 14	9°59'40	20°19	13°20	21°54	14° 1	12°40	11°12	0°13	27°32	29° 0	17° 8	16° 9	9°18	n.a.	T 3
W 4	12 37 11	10°57'41	2♑14	14°23	23° 2	13°45	12°44	11°11	0°11	27°32	29° 2	17° 5	16° 6	9°25	n.a.	W 4
T 5	12 41 7	11°55'40	14° 5	15°28	24° 8	13°30	12°49	11°10	0° 9	27°33	29° 3	17°D 5	16° 3	9°32	n.a.	T 5
F 6	12 45 4	12°53'37	25°55	16°36	25°15	13°15	12°53	11° 9	0° 8	27°34	29° 4	17° 6	16° 0	9°38	n.a.	F 6
S 7	12 49 1	13°51'33	7♒52	17°47	26°22	13° 1	12°58	11° 8	0° 6	27°35	29° 6	17° 7	15°57	9°45	n.a.	S 7
S 8	12 52 57	14°49'28	19°59	19° 0	27°28	12°48	13° 3	11° 6	0° 4	27°36	29° 7	17°R 7	15°54	9°52	n.a.	S 8
M 9	12 56 54	15°47'21	2♓22	20°16	28°35	12°36	13° 8	11° 5	0° 3	27°37	29° 8	17° 6	15°50	9°58	n.a.	M 9
T 10	13 0 50	16°45'13	15° 3	21°34	29°41	12°24	13°13	11° 3	0° 1	27°38	29°10	17° 2	15°47	10° 5	n.a.	T 10
W11	13 4 47	17°43'03	28° 5	22°54	0♊47	12°13	13°18	11° 2	29♌59	27°38	29°11	16°57	15°44	10°12	n.a.	W11
T 12	13 8 43	18°40'52	11♈29	24°17	1°52	12° 3	13°23	11° 0	29°58	27°39	29°12	16°49	15°41	10°18	n.a.	T 12
F 13	13 12 40	19°38'39	25°12	25°42	2°58	11°54	13°29	10°58	29°57	27°40	29°14	16°39	15°38	10°25	n.a.	F 13
S 14	13 16 36	20°36'25	9♉12	27° 9	4° 3	11°45	13°35	10°56	29°55	27°40	29°15	16°29	15°34	10°32	n.a.	S 14
S 15	13 20 33	21°34'09	23°24	28°39	5° 8	11°38	13°41	10°54	29°54	27°41	29°16	16°19	15°31	10°38	n.a.	S 15
M16	13 24 30	22°31'52	7♊42	0♈11	6°13	11°31	13°47	10°52	29°53	27°42	29°18	16°11	15°28	10°45	n.a.	M16
T 17	13 28 26	23°29'33	22° 2	1°45	7°18	11°25	13°53	10°50	29°52	27°42	29°19	16° 5	15°25	10°52	n.a.	T 17
W18	13 32 23	24°27'13	6♋19	3°21	8°22	11°20	13°59	10°47	29°51	27°43	29°20	16° 2	15°22	10°59	n.a.	W18
T 19	13 36 19	25°24'51	20°31	4°59	9°26	11°15	14° 6	10°45	29°49	27°43	29°21	16°D 0	15°19	11° 5	n.a.	T 19
F 20	13 40 16	26°22'27	4♌36	6°39	10°30	11°12	14°12	10°43	29°48	27°44	29°23	16° 1	15°15	11°12	n.a.	F 20
S 21	13 44 12	27°20'01	18°33	8°22	11°34	11° 9	14°19	10°40	29°47	27°44	29°24	16°R 1	15°12	11°19	n.a.	S 21
S 22	13 48 9	28°17'34	2♍22	10° 7	12°37	11° 7	14°26	10°37	29°46	27°44	29°25	16° 0	15° 9	11°25	n.a.	S 22
M23	13 52 5	29°15'05	16° 3	11°53	13°40	11° 6	14°33	10°35	29°45	27°45	29°27	15°57	15° 6	11°32	n.a.	M23
T 24	13 56 2	0♉12'35	29°34	13°42	14°43	11°D 6	14°40	10°32	29°45	27°45	29°28	15°51	15° 3	11°39	n.a.	T 24
W25	13 59 59	1°10'03	12♎54	15°34	15°46	11° 6	14°47	10°29	29°44	27°45	29°29	15°43	15° 0	11°45	n.a.	W25
T 26	14 3 55	2° 7'30	26° 3	17°27	16°48	11° 7	14°55	10°26	29°43	27°46	29°30	15°32	14°56	11°52	n.a.	T 26
F 27	14 7 52	3° 4'56	8♏58	19°22	17°50	11° 9	15° 2	10°23	29°42	27°46	29°31	15°20	14°53	11°59	n.a.	F 27
S 28	14 11 48	4° 2'21	21°38	21°20	18°51	11°12	15°10	10°20	29°42	27°46	29°33	15° 7	14°50	12° 5	n.a.	S 28
S 29	14 15 45	4°59'45	4♐ 4	23°19	19°53	11°16	15°18	10°17	29°41	27°46	29°34	14°55	14°47	12°12	n.a.	S 29
M30	14 19 41	5♉57'08	16♐17	25♈21	20♊54	11♍20	15♋25	10♐14	29♌40	27♑46	29♓35	14♒45	14♒44	12♑19	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n14	24s22	5s 4	9s36	2s25	19n52	2n 6	8n39	2n44	23n57	0n50	21s 6	1n18	12n16	0n49	21s 9	0s15	15s45	16s47	15s50	16s 9	26s30		n.a.
M 2	3 37	26 39	4 47	9 19	2 30	20 13	2 9	8 43	2 41	23 56	0 50	21 5	1 18	12 16	0 48	21 8	0 15	15 44	16 47	15 51	16 10	26 29		n.a.
T 3	4 0	27 38	4 17	9 0	2 35	20 34	2 12	8 47	2 38	23 56	0 50	21 5	1 18	12 17	0 48	21 8	0 15	15 44	16 47	15 53	16 10	26 28		n.a.
W 4	4 23	27 19	3 37	8 40	2 39	20 54	2 14	8 51	2 35	23 55	0 50	21 5	1 18	12 17	0 48	21 8	0 15	15 43	16 47	15 53	16 11	26 27		n.a.
T 5	4 46	25 44	2 48	8 17	2 43	21 14	2 17	8 54	2 32	23 55	0 50	21 5	1 18	12 18	0 48	21 8	0 15	15 43	16 47	15 54	16 12	26 26		n.a.
F 6	5 9	23 2	1 51	7 53	2 46	21 33	2 20	8 57	2 29	23 54	0 50	21 5	1 18	12 19	0 48	21 8	0 15	15 42	16 47	15 53	16 13	26 24		n.a.
S 7	5 32	19 18	0 49	7 27	2 48	21 52	2 22	9 0	2 27	23 54	0 50	21 4	1 18	12 19	0 48	21 8	0 15	15 42	16 47	15 53	16 14	26 23		n.a.
S 8	5 54	14 45	0n15	6 59	2 49	22 10	2 25	9 2	2 24	23 53	0 50	21 4	1 18	12 20	0 48	21 7	0 15	15 41	16 47	15 53	16 15	26 22		n.a.
M 9	6 17	9 30	1 21	6 30	2 50	22 28	2 27	9 4	2 21	23 53	0 50	21 4	1 18	12 20	0 48	21 7	0 15	15 41	16 47	15 53	16 16	26 21		n.a.
T 10	6 39	3 45	2 24	5 59	2 50	22 45	2 30	9 6	2 18	23 52	0 50	21 4	1 18	12 21	0 48	21 7	0 15	15 40	16 47	15 54	16 17	26 19		n.a.
W11	7 2	2n18	3 21	5 27	2 50	23 1	2 32	9 7	2 15	23 52	0 49	21 3	1 18	12 21	0 48	21 7	0 15	15 40	16 47	15 56	16 18	26 18		n.a.
T 12	7 24	8 23	4 8	4 53	2 49	23 17	2 34	9 9	2 12	23 51	0 49	21 3	1 19	12 22	0 48	21 7	0 15	15 39	16 48	15 59	16 19	26 17		n.a.
F 13	7 46	14 14	4 42	4 17	2 48	23 33	2 36	9 9	2 9	23 50	0 49	21 3	1 19	12 22	0 48	21 7	0 15	15 39	16 48	16 2	16 20	26 16		n.a.
S 14	8 8	19 28	5 1	3 40	2 45	23 47	2 38	9 10	2 6	23 50	0 49	21 3	1 19	12 23	0 48	21 7	0 15	15 38	16 48	16 5	16 21	26 14		n.a.
S 15	8 30	23 41	5 1	3 2	2 43	24 1	2 40	9 10	2 3	23 49	0 49	21 2	1 19	12 23	0 48	21 7	0 15	15 38	16 48	16 8	16 22	26 13		n.a.
M16	8 52	26 29	4 42	2 22	2 39	24 15	2 42	9 10	2 0	23 48	0 49	21 2	1 19	12 23	0 48	21 6	0 15	15 38	16 48	16 10	16 23	26 12		n.a.
T 17	9 14	27 34	4 6	1 40	2 35	24 28	2 44	9 10	1 57	23 48	0 49	21 2	1 19	12 24	0 48	21 6	0 15	15 37	16 48	16 12	16 24	26 11		n.a.
W18	9 35	26 48	3 14	0 58	2 31	24 40	2 45	9 9	1 54	23 47	0 49	21 1	1 19	12 24	0 48	21 6	0 15	15 37	16 48	16 13	16 25	26 9		n.a.
T 19	9 56	24 17	2 11	0 14	2 26	24 52	2 47	9 8	1 51	23 46	0 49	21 1	1 19	12 25	0 48	21 6	0 15	15 36	16 48	16 13	16 26	26 8		n.a.
F 20	10 17	20 18	1 0	0n32	2 20	25 3	2 49	9 7	1 48	23 46	0 49	21 1	1 19	12 25	0 48	21 6	0 15	15 36	16 49	16 13	16 27	26 7		n.a.
S 21	10 38	15 14	0s13	1 18	2 14	25 14	2 50	9 5	1 45	23 45	0 49	21 0	1 19	12 25	0 48	21 6	0 15	15 36	16 49	16 13	16 28	26 5		n.a.
S 22	10 59	9 25	1 26	2 6	2 7	25 24	2 51	9 3	1 42	23 44	0 49	21 0	1 19	12 26	0 48	21 6	0 15	15 35	16 49	16 13	16 29	26 4		n.a.
M23	11 20	3 14	2 32	2 55	2 0	25 33	2 52	9 1	1 39	23 43	0 49	20 59	1 19	12 26	0 48	21 6	0 15	15 35	16 49	16 14	16 30	26 3		n.a.
T 24	11 40	3s 1	3 29	3 44	1 53	25 42	2 53	8 58	1 37	23 42	0 49	20 59	1 19	12 26	0 48	21 6	0 15	15 35	16 49	16 16	16 30	26 1		n.a.
W25	12 1	9 2	4 14	4 35	1 45	25 50	2 54	8 56	1 34	23 41	0 49	20 59	1 19	12 26	0 48	21 6	0 15	15 34	16 49	16 19	16 31	26 0		n.a.
T 26	12 21	14 34	4 44	5 27	1 36	25 57	2 55	8 53	1 31	23 41	0 49	20 58	1 19	12 27	0 48	21 6	0 15	15 34	16 50	16 22	16 32	25 59		n.a.
F 27	12 41	19 21	4 59	6 19	1 27	26 4	2 56	8 49	1 28	23 40	0 49	20 58	1 19	12 27	0 48	21 6	0 15	15 34	16 50	16 25	16 33	25 57		n.a.
S 28	13 1	23 11	4 59	7 13	1 18	26 10	2 56	8 46	1 25	23 39	0 49	20 57	1 19	12 27	0 48	21 6	0 15	15 33	16 50	16 29	16 34	25 56		n.a.
S 29	13 20	25 51	4 44	8 6	1 8	26 16	2 57	8 42	1 23	23 38	0 49	20 57	1 19	12 27	0 48	21 6	0 15	15 33	16 50	16 33	16 35	25 55		n.a.
M30	13n39	27s15	4s17	9n 1	0s58	26n20	2n57	8n38	1n20	23n37	0n49	20s56	1n19	12n27	0n48	21s 6	0s15	15s33	16s50	16s36	16s36	25s53		n.a.

Julian Day Number = 1672935.5, Delta T = 03h19m34s
Ecliptic obliquity = 23°42'48, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'57, Lahiri = - 5°46'57 Julian Calendar 1 Apr. 133 BCE == Greg. Calendar 29 March 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

MAY 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 23 38	6♉54'30	28♐18	27♈24	21♊54	11♍25	15♋33	10°R11	29°R40	27♑46	29♓36	14°R38	14♒40	12♑25	n.a.	T 1
W 2	14 27 34	7°51'51	10♑12	29°29	22°55	11°31	15°42	10♐ 7	29♌39	27°46	29°37	14♒33	14°37	12°32	n.a.	W 2
T 3	14 31 31	8°49'12	22° 1	1♉35	23°54	11°37	15°50	10° 4	29°39	27°R46	29°38	14°30	14°34	12°39	n.a.	T 3
F 4	14 35 28	9°46'32	3♒51	3°43	24°54	11°44	15°58	10° 1	29°39	27°46	29°39	14°29	14°31	12°45	n.a.	F 4
S 5	14 39 24	10°43'51	15°47	5°52	25°53	11°52	16° 7	9°57	29°38	27°46	29°41	14°29	14°28	12°52	n.a.	S 5
S 6	14 43 21	11°41'10	27°54	8° 3	26°52	12° 0	16°15	9°54	29°38	27°46	29°42	14°29	14°25	12°59	n.a.	S 6
M 7	14 47 17	12°38'27	10♓19	10°14	27°51	12°10	16°24	9°50	29°38	27°46	29°43	14°27	14°21	13° 5	n.a.	M 7
T 8	14 51 14	13°35'45	23° 4	12°25	28°49	12°19	16°33	9°46	29°38	27°46	29°44	14°23	14°18	13°12	n.a.	T 8
W 9	14 55 10	14°33'01	6♈14	14°37	29°46	12°30	16°42	9°43	29°37	27°46	29°45	14°17	14°15	13°19	n.a.	W 9
T 10	14 59 7	15°30'18	19°50	16°49	0♋43	12°41	16°51	9°39	29°37	27°46	29°46	14° 8	14°12	13°25	n.a.	T 10
F 11	15 3 3	16°27'33	3♉51	19° 0	1°40	12°53	17° 0	9°35	29°D37	27°45	29°47	13°57	14° 9	13°32	n.a.	F 11
S 12	15 7 0	17°24'48	18°12	21°11	2°36	13° 5	17° 9	9°31	29°37	27°45	29°48	13°46	14° 6	13°39	n.a.	S 12
S 13	15 10 57	18°22'03	2♊48	23°21	3°32	13°18	17°18	9°27	29°38	27°45	29°49	13°35	14° 2	13°45	n.a.	S 13
M14	15 14 53	19°19'16	17°32	25°30	4°27	13°32	17°28	9°23	29°38	27°45	29°50	13°26	13°59	13°52	n.a.	M14
T 15	15 18 50	20°16'29	2♋15	27°38	5°22	13°46	17°37	9°19	29°38	27°44	29°51	13°19	13°56	13°59	n.a.	T 15
W16	15 22 46	21°13'42	16°50	29°45	6°16	14° 1	17°47	9°15	29°38	27°44	29°52	13°14	13°53	14° 5	n.a.	W16
T 17	15 26 43	22°10'53	1♌14	1♊50	7°10	14°16	17°57	9°11	29°39	27°43	29°53	13°13	13°50	14°12	n.a.	T 17
F 18	15 30 39	23° 8'04	15°24	3°53	8° 3	14°32	18° 7	9° 7	29°39	27°43	29°54	13°12	13°46	14°19	n.a.	F 18
S 19	15 34 36	24° 5'13	29°17	5°54	8°55	14°48	18°17	9° 3	29°39	27°42	29°55	13°12	13°43	14°25	n.a.	S 19
S 20	15 38 32	25° 2'22	12♍56	7°53	9°47	15° 5	18°27	8°59	29°40	27°42	29°55	13°11	13°40	14°32	n.a.	S 20
M21	15 42 29	25°59'30	26°21	9°50	10°38	15°23	18°37	8°54	29°40	27°41	29°56	13° 8	13°37	14°39	n.a.	M21
T 22	15 46 26	26°56'38	9♎33	11°45	11°29	15°41	18°47	8°50	29°41	27°41	29°57	13° 3	13°34	14°45	n.a.	T 22
W23	15 50 22	27°53'45	22°33	13°38	12°19	15°59	18°57	8°46	29°42	27°40	29°58	12°55	13°31	14°52	n.a.	W23
T 24	15 54 19	28°50'52	5♏21	15°29	13° 8	16°19	19° 7	8°42	29°42	27°40	29°59	12°44	13°27	14°59	n.a.	T 24
F 25	15 58 15	29°47'58	17°57	17°18	13°56	16°38	19°18	8°37	29°43	27°39	29°59	12°32	13°24	15° 5	n.a.	F 25
S 26	16 2 12	0♊45'04	0♐22	19° 4	14°44	16°58	19°28	8°33	29°44	27°38	0♈ 0	12°20	13°21	15°12	n.a.	S 26
S 27	16 6 8	1°42'10	12°37	20°48	15°31	17°18	19°39	8°29	29°45	27°38	0° 1	12° 8	13°18	15°18	n.a.	S 27
M28	16 10 5	2°39'15	24°41	22°30	16°17	17°39	19°50	8°24	29°46	27°37	0° 2	11°59	13°15	15°25	n.a.	M28
T 29	16 14 1	3°36'21	6♑37	24°10	17° 2	18° 1	20° 0	8°20	29°46	27°36	0° 3	11°51	13°12	15°32	n.a.	T 29
W30	16 17 58	4°33'27	18°27	25°47	17°46	18°22	20°11	8°15	29°47	27°35	0° 3	11°46	13° 8	15°38	n.a.	W30
T 31	16 21 55	5♊30'33	0♒15	27♊22	18♋29	18♍45	20♋22	8♐11	29♌49	27♑34	0♈ 4	11♒44	13♒ 5	15♑45	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n59	27s21	3s39	9n55	0s48	26n25	2n57	8n33	1n17	23n36	0n49	20s56	1n19	12n28	0n47	21s 6	0s15	15s32	16s50	16s38	16s37	25s52			n.a.
W 2	14 17	26 9	2 51	10 50	0 38	26 28	2 57	8 29	1 15	23 35	0 49	20 55	1 19	12 28	0 47	21 6	0 15	15 32	16 51	16 39	16 38	25 50			n.a.
T 3	14 36	23 48	1 56	11 44	0 27	26 31	2 57	8 24	1 12	23 34	0 49	20 55	1 19	12 28	0 47	21 6	0 15	15 32	16 51	16 40	16 39	25 49			n.a.
F 4	14 55	20 25	0 56	12 39	0 16	26 34	2 57	8 19	1 10	23 33	0 48	20 54	1 19	12 28	0 47	21 6	0 15	15 32	16 51	16 40	16 40	25 48			n.a.
S 5	15 13	16 11	0n 7	13 33	0 6	26 35	2 57	8 13	1 7	23 32	0 48	20 54	1 19	12 28	0 47	21 6	0 15	15 31	16 51	16 40	16 41	25 46			n.a.
S 6	15 31	11 14	1 10	14 26	0n 5	26 36	2 56	8 8	1 4	23 31	0 48	20 53	1 19	12 28	0 47	21 6	0 16	15 31	16 51	16 40	16 42	25 45			n.a.
M 7	15 49	5 45	2 12	15 18	0 16	26 37	2 55	8 2	1 2	23 30	0 48	20 53	1 19	12 28	0 47	21 6	0 16	15 31	16 52	16 41	16 43	25 43			n.a.
T 8	16 6	0n 6	3 9	16 9	0 26	26 37	2 54	7 56	0 59	23 28	0 48	20 52	1 19	12 28	0 47	21 6	0 16	15 31	16 52	16 42	16 44	25 42			n.a.
W 9	16 23	6 8	3 58	16 59	0 36	26 36	2 53	7 49	0 57	23 27	0 48	20 52	1 19	12 28	0 47	21 6	0 16	15 31	16 52	16 44	16 45	25 41			n.a.
T 10	16 40	12 4	4 34	17 47	0 46	26 35	2 52	7 43	0 55	23 26	0 48	20 51	1 19	12 28	0 47	21 6	0 16	15 30	16 52	16 47	16 45	25 39			n.a.
F 11	16 57	17 34	4 56	18 33	0 55	26 33	2 51	7 36	0 52	23 25	0 48	20 51	1 19	12 28	0 47	21 6	0 16	15 30	16 53	16 50	16 46	25 38			n.a.
S 12	17 13	22 14	5 0	19 18	1 4	26 31	2 49	7 29	0 50	23 24	0 48	20 50	1 19	12 28	0 47	21 6	0 16	15 30	16 53	16 53	16 47	25 36			n.a.
S 13	17 30	25 36	4 44	20 0	1 13	26 28	2 48	7 22	0 48	23 23	0 48	20 49	1 19	12 28	0 47	21 6	0 16	15 30	16 53	16 56	16 48	25 35			n.a.
M14	17 45	27 16	4 10	20 39	1 20	26 24	2 46	7 14	0 45	23 21	0 48	20 49	1 19	12 28	0 47	21 6	0 16	15 30	16 53	16 59	16 49	25 33			n.a.
T 15	18 1	27 0	3 18	21 17	1 28	26 20	2 44	7 7	0 43	23 20	0 48	20 48	1 19	12 28	0 47	21 6	0 16	15 29	16 54	17 1	16 50	25 32			n.a.
W16	18 16	24 52	2 15	21 52	1 34	26 15	2 42	6 59	0 41	23 19	0 48	20 48	1 19	12 28	0 47	21 7	0 16	15 29	16 54	17 2	16 51	25 30			n.a.
T 17	18 31	21 8	1 3	22 24	1 40	26 10	2 39	6 51	0 38	23 17	0 48	20 47	1 19	12 27	0 47	21 7	0 16	15 29	16 54	17 3	16 52	25 29			n.a.
F 18	18 46	16 13	0s12	22 54	1 46	26 4	2 37	6 43	0 36	23 16	0 48	20 47	1 19	12 27	0 47	21 7	0 16	15 29	16 54	17 3	16 53	25 27			n.a.
S 19	19 1	10 32	1 24	23 21	1 50	25 58	2 34	6 34	0 34	23 15	0 48	20 46	1 19	12 27	0 47	21 7	0 16	15 29	16 55	17 3	16 54	25 26			n.a.
S 20	19 15	4 28	2 30	23 45	1 54	25 51	2 31	6 26	0 32	23 13	0 48	20 45	1 18	12 27	0 47	21 7	0 16	15 29	16 55	17 3	16 55	25 24			n.a.
M21	19 28	1s42	3 27	24 7	1 57	25 44	2 28	6 17	0 30	23 12	0 48	20 45	1 18	12 27	0 47	21 7	0 16	15 29	16 55	17 4	16 56	25 23			n.a.
T 22	19 42	7 41	4 12	24 26	2 0	25 37	2 24	6 8	0 28	23 10	0 48	20 44	1 18	12 26	0 47	21 7	0 16	15 29	16 56	17 5	16 57	25 21			n.a.
W23	19 55	13 14	4 43	24 42	2 1	25 28	2 21	5 59	0 26	23 9	0 48	20 44	1 18	12 26	0 47	21 7	0 16	15 29	16 56	17 8	16 57	25 20			n.a.
T 24	20 8	18 8	4 59	24 56	2 3	25 20	2 17	5 50	0 24	23 7	0 48	20 43	1 18	12 26	0 47	21 8	0 16	15 29	16 56	17 11	16 58	25 18			n.a.
F 25	20 20	22 10	5 0	25 8	2 3	25 11	2 13	5 40	0 22	23 6	0 48	20 42	1 18	12 25	0 46	21 8	0 16	15 28	16 56	17 14	16 59	25 17			n.a.
S 26	20 32	25 8	4 47	25 18	2 3	25 1	2 9	5 30	0 20	23 4	0 48	20 42	1 18	12 25	0 46	21 8	0 16	15 28	16 57	17 18	17 0	25 15			n.a.
S 27	20 44	26 52	4 20	25 25	2 2	24 51	2 4	5 21	0 18	23 3	0 48	20 41	1 18	12 25	0 46	21 8	0 16	15 28	16 57	17 21	17 1	25 14			n.a.
M28	20 56	27 19	3 43	25 30	2 0	24 41	2 0	5 11	0 16	23 1	0 48	20 40	1 18	12 24	0 46	21 8	0 16	15 28	16 57	17 24	17 2	25 12			n.a.
T 29	21 7	26 28	2 55	25 32	1 58	24 31	1 55	5 0	0 14	23 0	0 48	20 40	1 18	12 24	0 46	21 8	0 16	15 28	16 58	17 26	17 3	25 10			n.a.
W30	21 18	24 25	2 1	25 33	1 55	24 20	1 50	4 50	0 12	22 58	0 48	20 39	1 18	12 24	0 46	21 9	0 16	15 28	16 58	17 27	17 4	25 9			n.a.
T 31	21n28	21s19	1s 1	25n32	1n51	24n 8	1n44	4n40	0n10	22n56	0n48	20s39	1n18	12n23	0n46	21s 9	0s16	15s28	16s58	17s28	17s 5	25s 7			n.a.

Julian Day Number = 1672965.5, Delta T = 03h19m33s
Ecliptic obliquity = 23°42'47, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'53, Lahiri = - 5°46'53 Julian Calendar 1 May 133 BCE == Greg. Calendar 28 Apr. 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

JUNE 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 25 51	6♊27'39	12♒ 4	28♊55	19♋11	19♍ 7	20♋33	8°R 7	29♌50	27°R34	0♈ 5	11°D43	13♒ 2	15♑52	n.a.	F 1
S 2	16 29 48	7°24'45	23°59	0♋26	19°53	19°30	20°44	8♐ 2	29°51	27♑33	0° 5	11♒43	12°59	15°58	n.a.	S 2
S 3	16 33 44	8°21'51	6♓ 5	1°54	20°33	19°54	20°55	7°58	29°52	27°32	0° 6	11°R44	12°56	16° 5	n.a.	S 3
M 4	16 37 41	9°18'58	18°29	3°20	21°12	20°17	21° 6	7°53	29°53	27°31	0° 7	11°43	12°52	16°12	n.a.	M 4
T 5	16 41 37	10°16'05	1♈13	4°44	21°50	20°42	21°18	7°49	29°55	27°30	0° 7	11°41	12°49	16°18	n.a.	T 5
W 6	16 45 34	11°13'13	14°24	6° 5	22°27	21° 6	21°29	7°45	29°56	27°29	0° 8	11°37	12°46	16°25	n.a.	W 6
T 7	16 49 31	12°10'21	28° 2	7°24	23° 3	21°31	21°40	7°40	29°57	27°28	0° 8	11°31	12°43	16°32	n.a.	T 7
F 8	16 53 27	13° 7'29	12♉ 9	8°40	23°37	21°57	21°52	7°36	29°59	27°27	0° 9	11°23	12°40	16°38	n.a.	F 8
S 9	16 57 24	14° 4'38	26°40	9°54	24°11	22°22	22° 3	7°31	0♍ 0	27°26	0° 9	11°14	12°37	16°45	n.a.	S 9
S 10	17 1 20	15° 1'47	11♊31	11° 5	24°42	22°48	22°15	7°27	0° 2	27°25	0°10	11° 6	12°33	16°52	n.a.	S 10
M11	17 5 17	15°58'57	26°33	12°14	25°13	23°15	22°27	7°23	0° 3	27°24	0°10	10°59	12°30	16°58	n.a.	M11
T 12	17 9 13	16°56'07	11♋36	13°20	25°42	23°42	22°38	7°18	0° 5	27°22	0°11	10°54	12°27	17° 5	n.a.	T 12
W13	17 13 10	17°53'17	26°32	14°23	26° 9	24° 9	22°50	7°14	0° 7	27°21	0°11	10°51	12°24	17°12	n.a.	W13
T 14	17 17 6	18°50'27	11♌13	15°23	26°35	24°36	23° 2	7°10	0° 9	27°20	0°12	10°D50	12°21	17°18	n.a.	T 14
F 15	17 21 3	19°47'38	25°35	16°20	27° 0	25° 4	23°14	7° 6	0°10	27°19	0°12	10°51	12°18	17°25	n.a.	F 15
S 16	17 25 0	20°44'48	9♍35	17°14	27°22	25°32	23°26	7° 1	0°12	27°18	0°13	10°52	12°14	17°32	n.a.	S 16
S 17	17 28 56	21°41'59	23°14	18° 5	27°43	26° 1	23°38	6°57	0°14	27°16	0°13	10°R52	12°11	17°38	n.a.	S 17
M18	17 32 53	22°39'10	6♎34	18°52	28° 2	26°30	23°50	6°53	0°16	27°15	0°13	10°51	12° 8	17°45	n.a.	M18
T 19	17 36 49	23°36'21	19°35	19°36	28°19	26°59	24° 2	6°49	0°18	27°14	0°14	10°48	12° 5	17°52	n.a.	T 19
W20	17 40 46	24°33'33	2♏21	20°16	28°35	27°28	24°14	6°45	0°20	27°13	0°14	10°43	12° 2	17°58	n.a.	W20
T 21	17 44 42	25°30'45	14°54	20°52	28°48	27°58	24°26	6°41	0°22	27°11	0°14	10°37	11°58	18° 5	n.a.	T 21
F 22	17 48 39	26°27'57	27°15	21°24	28°59	28°27	24°38	6°37	0°24	27°10	0°14	10°29	11°55	18°12	n.a.	F 22
S 23	17 52 35	27°25'11	9♐26	21°52	29° 8	28°58	24°51	6°33	0°26	27° 9	0°15	10°21	11°52	18°18	n.a.	S 23
S 24	17 56 32	28°22'24	21°29	22°16	29°15	29°28	25° 3	6°29	0°28	27° 7	0°15	10°14	11°49	18°25	n.a.	S 24
M25	18 0 29	29°19'39	3♑25	22°35	29°20	29°59	25°15	6°25	0°31	27° 6	0°15	10° 8	11°46	18°32	n.a.	M25
T 26	18 4 25	0♋16'54	15°16	22°50	29°23	0♎30	25°28	6°21	0°33	27° 4	0°15	10° 3	11°43	18°38	n.a.	T 26
W27	18 8 22	1°14'11	27° 4	22°59	29°R23	1° 1	25°40	6°17	0°35	27° 3	0°15	10° 1	11°39	18°45	n.a.	W27
T 28	18 12 18	2°11'28	8♒51	23°R 4	29°21	1°33	25°53	6°14	0°38	27° 2	0°15	10°D 0	11°36	18°52	n.a.	T 28
F 29	18 16 15	3° 8'46	20°42	23° 4	29°16	2° 4	26° 5	6°10	0°40	27° 0	0°16	10° 0	11°33	18°58	n.a.	F 29
S 30	18 20 11	4♋ 6'05	2♓39	22♋59	29♋ 9	2♎37	26♋18	6♐ 6	0♍43	26♑59	0♈16	10♒ 1	11♒30	19♑ 5	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n38	17s21	0n 2	25n29	1n47	23n57	1n38	4n29	0n 8	22n55	0n48	20s38	1n18	12n23	0n46	21s 9	0s16	15s28	16s58	17s28	17s 6	25s 6		n.a.
S 2	21 48	12 39	1 5	25 25	1 42	23 45	1 32	4 18	0 7	22 53	0 48	20 37	1 18	12 22	0 46	21 9	0 16	15 28	16 59	17 28	17 7	25 4		n.a.
S 3	21 57	7 25	2 6	25 19	1 37	23 33	1 26	4 7	0 5	22 51	0 48	20 37	1 18	12 22	0 46	21 9	0 16	15 28	16 59	17 28	17 8	25 3		n.a.
M 4	22 6	1 48	3 3	25 11	1 31	23 20	1 20	3 56	0 3	22 49	0 48	20 36	1 18	12 21	0 46	21 10	0 16	15 28	16 59	17 28	17 8	25 1		n.a.
T 5	22 15	4n 3	3 53	25 2	1 24	23 7	1 13	3 45	0 1	22 48	0 48	20 35	1 17	12 21	0 46	21 10	0 16	15 28	17 0	17 29	17 9	24 59		n.a.
W 6	22 23	9 54	4 32	24 51	1 17	22 54	1 6	3 34	0s 0	22 46	0 48	20 35	1 17	12 20	0 46	21 10	0 16	15 29	17 0	17 30	17 10	24 58		n.a.
T 7	22 31	15 30	4 57	24 40	1 10	22 41	0 59	3 22	0 2	22 44	0 48	20 34	1 17	12 20	0 46	21 10	0 16	15 29	17 0	17 31	17 11	24 56		n.a.
F 8	22 38	20 29	5 5	24 27	1 2	22 28	0 51	3 11	0 4	22 42	0 48	20 33	1 17	12 19	0 46	21 10	0 16	15 29	17 1	17 34	17 12	24 54		n.a.
S 9	22 45	24 24	4 54	24 13	0 53	22 14	0 43	2 59	0 5	22 40	0 48	20 33	1 17	12 19	0 46	21 11	0 16	15 29	17 1	17 36	17 13	24 53		n.a.
S 10	22 52	26 46	4 24	23 58	0 44	22 0	0 35	2 47	0 7	22 38	0 48	20 32	1 17	12 18	0 46	21 11	0 16	15 29	17 1	17 38	17 14	24 51		n.a.
M11	22 58	27 15	3 35	23 43	0 34	21 46	0 27	2 35	0 8	22 36	0 48	20 32	1 17	12 18	0 46	21 11	0 16	15 29	17 2	17 40	17 15	24 50		n.a.
T 12	23 4	25 42	2 30	23 26	0 24	21 33	0 18	2 23	0 10	22 34	0 48	20 31	1 17	12 17	0 46	21 11	0 16	15 29	17 2	17 42	17 16	24 48		n.a.
W13	23 9	22 20	1 16	23 9	0 14	21 18	0 9	2 10	0 12	22 33	0 48	20 30	1 17	12 16	0 46	21 12	0 16	15 29	17 2	17 43	17 17	24 46		n.a.
T 14	23 14	17 35	0s 2	22 52	0 3	21 4	0s 0	1 58	0 13	22 31	0 48	20 30	1 17	12 16	0 46	21 12	0 16	15 29	17 3	17 43	17 17	24 45		n.a.
F 15	23 19	11 55	1 19	22 34	0s 8	20 50	0 10	1 45	0 15	22 28	0 48	20 29	1 16	12 15	0 46	21 12	0 16	15 30	17 3	17 43	17 18	24 43		n.a.
S 16	23 23	5 46	2 29	22 15	0 20	20 36	0 20	1 33	0 16	22 26	0 48	20 29	1 16	12 14	0 46	21 12	0 16	15 30	17 3	17 42	17 19	24 41		n.a.
S 17	23 27	0s28	3 28	21 57	0 32	20 22	0 30	1 20	0 18	22 24	0 48	20 28	1 16	12 14	0 46	21 13	0 16	15 30	17 4	17 42	17 20	24 39		n.a.
M18	23 30	6 32	4 15	21 38	0 44	20 7	0 41	1 7	0 19	22 22	0 48	20 27	1 16	12 13	0 45	21 13	0 16	15 30	17 4	17 43	17 21	24 38		n.a.
T 19	23 33	12 10	4 48	21 19	0 57	19 53	0 52	0 54	0 20	22 20	0 48	20 27	1 16	12 12	0 45	21 13	0 16	15 30	17 4	17 43	17 22	24 36		n.a.
W20	23 36	17 11	5 5	21 1	1 10	19 39	1 3	0 41	0 22	22 18	0 48	20 26	1 16	12 11	0 45	21 13	0 16	15 30	17 5	17 45	17 23	24 34		n.a.
T 21	23 38	21 23	5 7	20 42	1 23	19 25	1 14	0 28	0 23	22 16	0 48	20 26	1 16	12 11	0 45	21 14	0 16	15 31	17 5	17 47	17 24	24 33		n.a.
F 22	23 40	24 33	4 55	20 24	1 37	19 11	1 26	0 15	0 25	22 14	0 48	20 25	1 16	12 10	0 45	21 14	0 16	15 31	17 5	17 49	17 25	24 31		n.a.
S 23	23 41	26 34	4 30	20 6	1 50	18 58	1 38	0 1	0 26	22 11	0 48	20 25	1 16	12 9	0 45	21 14	0 16	15 31	17 6	17 51	17 26	24 29		n.a.
S 24	23 42	27 18	3 53	19 49	2 4	18 44	1 51	0s12	0 27	22 9	0 48	20 24	1 15	12 8	0 45	21 15	0 16	15 31	17 6	17 53	17 26	24 27		n.a.
M25	23 43	26 46	3 6	19 32	2 18	18 31	2 3	0 26	0 29	22 7	0 48	20 23	1 15	12 7	0 45	21 15	0 16	15 32	17 6	17 54	17 27	24 26		n.a.
T 26	23 43	24 59	2 10	19 16	2 32	18 18	2 16	0 39	0 30	22 5	0 48	20 23	1 15	12 6	0 45	21 15	0 17	15 32	17 7	17 56	17 28	24 24		n.a.
W27	23 42	22 8	1 10	19 1	2 45	18 5	2 29	0 53	0 31	22 2	0 48	20 22	1 15	12 6	0 45	21 15	0 17	15 32	17 7	17 56	17 29	24 22		n.a.
T 28	23 42	18 21	0 6	18 47	2 59	17 52	2 43	1 7	0 33	22 0	0 48	20 22	1 15	12 5	0 45	21 16	0 17	15 32	17 8	17 57	17 30	24 21		n.a.
F 29	23 40	13 50	0n58	18 34	3 12	17 40	2 56	1 21	0 34	21 58	0 48	20 21	1 15	12 4	0 45	21 16	0 17	15 33	17 8	17 57	17 31	24 19		n.a.
S 30	23n39	8s47	2n 1	18n22	3s25	17n28	3s10	1s35	0s35	21n55	0n48	20s21	1n15	12n 3	0n45	21s16	0s17	15s33	17s 8	17s56	17s32	24s17		n.a.

Julian Day Number = 1672996.5, Delta T = 03h19m33s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'49, Lahiri = - 5°46'48 Julian Calendar 1 June 133 BCE == Greg. Calendar 29 May 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

JULY 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 24 8	5♋ 3'26	14♓46	22°R48	29°R 0	3♎ 9	26♋30	6°R 3	0♍45	26°R57	0♈16	10♒ 3	11♒27	19♑12	n.a.	S 1
M 2	18 28 5	6° 0'47	27° 9	22♋33	28♋49	3°41	26°43	5♐59	0°48	26♑56	0°16	10° 4	11°24	19°18	n.a.	M 2
T 3	18 32 1	6°58'10	9♈52	22°12	28°35	4°14	26°55	5°56	0°50	26°54	0°R16	10°R 5	11°20	19°25	n.a.	T 3
W 4	18 35 58	7°55'35	22°58	21°47	28°19	4°47	27° 8	5°52	0°53	26°53	0°16	10° 4	11°17	19°32	n.a.	W 4
T 5	18 39 54	8°53'00	6♉32	21°16	28° 0	5°20	27°21	5°49	0°55	26°51	0°16	10° 1	11°14	19°38	n.a.	T 5
F 6	18 43 51	9°50'27	20°33	20°42	27°39	5°54	27°33	5°46	0°58	26°50	0°16	9°58	11°11	19°45	n.a.	F 6
S 7	18 47 47	10°47'56	5♊ 2	20° 3	27°16	6°27	27°46	5°42	1° 1	26°48	0°16	9°54	11° 8	19°52	n.a.	S 7
S 8	18 51 44	11°45'26	19°53	19°22	26°52	7° 1	27°59	5°39	1° 4	26°47	0°16	9°50	11° 4	19°58	n.a.	S 8
M 9	18 55 40	12°42'57	4♋59	18°37	26°25	7°35	28°12	5°36	1° 6	26°45	0°15	9°47	11° 1	20° 5	n.a.	M 9
T 10	18 59 37	13°40'29	20°11	17°50	25°56	8°10	28°25	5°33	1° 9	26°43	0°15	9°44	10°58	20°12	n.a.	T 10
W11	19 3 34	14°38'03	5♌20	17° 2	25°26	8°44	28°38	5°30	1°12	26°42	0°15	9°D44	10°55	20°18	n.a.	W11
T 12	19 7 30	15°35'38	20°16	16°13	24°54	9°19	28°50	5°27	1°15	26°40	0°15	9°44	10°52	20°25	n.a.	T 12
F 13	19 11 27	16°33'14	4♍52	15°25	24°20	9°54	29° 3	5°25	1°18	26°39	0°15	9°45	10°49	20°31	n.a.	F 13
S 14	19 15 23	17°30'50	19° 5	14°38	23°46	10°29	29°16	5°22	1°21	26°37	0°15	9°46	10°45	20°38	n.a.	S 14
S 15	19 19 20	18°28'28	2♎52	13°54	23°10	11° 5	29°29	5°19	1°24	26°35	0°14	9°47	10°42	20°45	n.a.	S 15
M16	19 23 16	19°26'07	16°15	13°13	22°34	11°40	29°42	5°17	1°27	26°34	0°14	9°R48	10°39	20°51	n.a.	M16
T 17	19 27 13	20°23'47	29°15	12°36	21°57	12°16	29°55	5°14	1°30	26°32	0°14	9°48	10°36	20°58	n.a.	T 17
W18	19 31 9	21°21'29	11♏55	12° 3	21°20	12°52	0♌ 8	5°12	1°33	26°30	0°14	9°47	10°33	21° 5	n.a.	W18
T 19	19 35 6	22°19'11	24°19	11°37	20°43	13°28	0°21	5°10	1°36	26°29	0°13	9°45	10°30	21°11	n.a.	T 19
F 20	19 39 3	23°16'55	6♐30	11°16	20° 6	14° 4	0°34	5° 7	1°39	26°27	0°13	9°43	10°26	21°18	n.a.	F 20
S 21	19 42 59	24°14'40	18°32	11° 3	19°30	14°41	0°47	5° 5	1°42	26°26	0°13	9°40	10°23	21°25	n.a.	S 21
S 22	19 46 56	25°12'27	0♑26	10°D56	18°54	15°18	1° 0	5° 3	1°46	26°24	0°12	9°38	10°20	21°31	n.a.	S 22
M23	19 50 52	26°10'15	12°16	10°57	18°19	15°55	1°13	5° 1	1°49	26°22	0°12	9°36	10°17	21°38	n.a.	M23
T 24	19 54 49	27° 8'04	24° 5	11° 6	17°45	16°32	1°26	4°59	1°52	26°21	0°11	9°35	10°14	21°45	n.a.	T 24
W25	19 58 45	28° 5'55	5♒54	11°22	17°12	17° 9	1°39	4°58	1°55	26°19	0°11	9°D35	10°10	21°51	n.a.	W25
T 26	20 2 42	29° 3'48	17°45	11°47	16°41	17°46	1°52	4°56	1°59	26°17	0°10	9°35	10° 7	21°58	n.a.	T 26
F 27	20 6 38	0♌ 1'42	29°41	12°19	16°12	18°24	2° 5	4°54	2° 2	26°16	0°10	9°35	10° 4	22° 5	n.a.	F 27
S 28	20 10 35	0°59'38	11♓44	12°59	15°45	19° 1	2°19	4°53	2° 5	26°14	0° 9	9°36	10° 1	22°11	n.a.	S 28
S 29	20 14 32	1°57'36	23°58	13°46	15°19	19°39	2°32	4°51	2° 9	26°12	0° 9	9°37	9°58	22°18	n.a.	S 29
M30	20 18 28	2°55'36	6♈26	14°41	14°56	20°17	2°45	4°50	2°12	26°11	0° 8	9°37	9°55	22°25	n.a.	M30
T 31	20 22 25	3♌53'38	19♈10	15♋43	14♋34	20♎55	2♌58	4♐49	2♍16	26♑ 9	0♈ 8	9♒38	9♒51	22♑31	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	23n37	3s19	2n59	18n12	3s37	17n16	3s24	1s49	0s36	21n53	0n48	20s20	1n14	12n 2	0n45	21s17	0s17	15s33	17s 9	17s56	17s33	24s15			n.a.
M 2	23 34	2n22	3 50	18 3	3 49	17 5	3 38	2 3	0 37	21 51	0 48	20 20	1 14	12 1	0 45	21 17	0 17	15 33	17 9	17 55	17 34	24 13			n.a.
T 3	23 32	8 5	4 31	17 55	4 0	16 54	3 52	2 17	0 39	21 48	0 48	20 20	1 14	12 0	0 45	21 17	0 17	15 34	17 9	17 55	17 34	24 12			n.a.
W 4	23 28	13 39	4 59	17 49	4 10	16 43	4 6	2 32	0 40	21 46	0 48	20 19	1 14	11 59	0 45	21 18	0 17	15 34	17 10	17 56	17 35	24 10			n.a.
T 5	23 25	18 45	5 13	17 45	4 19	16 33	4 20	2 46	0 41	21 43	0 48	20 19	1 14	11 58	0 45	21 18	0 17	15 34	17 10	17 56	17 36	24 8			n.a.
F 6	23 21	23 2	5 8	17 42	4 27	16 24	4 34	3 1	0 42	21 41	0 48	20 18	1 14	11 57	0 45	21 18	0 17	15 35	17 10	17 57	17 37	24 6			n.a.
S 7	23 16	26 2	4 44	17 42	4 33	16 14	4 48	3 15	0 43	21 38	0 48	20 18	1 14	11 56	0 45	21 19	0 17	15 35	17 11	17 58	17 38	24 4			n.a.
S 8	23 11	27 19	4 0	17 43	4 38	16 6	5 1	3 30	0 44	21 36	0 49	20 17	1 13	11 55	0 45	21 19	0 17	15 35	17 11	17 59	17 39	24 3			n.a.
M 9	23 6	26 36	2 59	17 45	4 41	15 58	5 15	3 44	0 45	21 33	0 49	20 17	1 13	11 54	0 45	21 19	0 17	15 36	17 11	18 0	17 40	24 1			n.a.
T 10	23 0	23 55	1 45	17 50	4 43	15 50	5 28	3 59	0 46	21 30	0 49	20 17	1 13	11 53	0 45	21 19	0 17	15 36	17 12	18 1	17 41	23 59			n.a.
W11	22 54	19 33	0 24	17 56	4 43	15 43	5 41	4 14	0 48	21 28	0 49	20 16	1 13	11 52	0 45	21 20	0 17	15 36	17 12	18 1	17 42	23 57			n.a.
T 12	22 47	13 59	0s58	18 4	4 41	15 36	5 53	4 29	0 49	21 25	0 49	20 16	1 13	11 51	0 45	21 20	0 17	15 37	17 12	18 1	17 42	23 55			n.a.
F 13	22 40	7 45	2 14	18 13	4 37	15 30	6 5	4 43	0 50	21 23	0 49	20 16	1 13	11 50	0 45	21 20	0 17	15 37	17 13	18 1	17 43	23 53			n.a.
S 14	22 33	1 18	3 20	18 24	4 31	15 25	6 17	4 58	0 51	21 20	0 49	20 15	1 12	11 49	0 45	21 21	0 17	15 38	17 13	18 0	17 44	23 52			n.a.
S 15	22 25	5s 0	4 13	18 36	4 24	15 20	6 28	5 13	0 52	21 17	0 49	20 15	1 12	11 48	0 45	21 21	0 17	15 38	17 13	18 0	17 45	23 50			n.a.
M16	22 17	10 54	4 50	18 49	4 15	15 15	6 38	5 28	0 53	21 14	0 49	20 15	1 12	11 47	0 45	21 21	0 17	15 38	17 14	18 0	17 46	23 48			n.a.
T 17	22 9	16 9	5 10	19 3	4 4	15 12	6 47	5 43	0 54	21 12	0 49	20 14	1 12	11 45	0 45	21 22	0 17	15 39	17 14	18 0	17 47	23 46			n.a.
W18	22 0	20 34	5 15	19 18	3 52	15 9	6 56	5 58	0 55	21 9	0 49	20 14	1 12	11 44	0 45	21 22	0 17	15 39	17 14	18 0	17 48	23 44			n.a.
T 19	21 50	24 0	5 6	19 34	3 39	15 6	7 4	6 13	0 55	21 6	0 49	20 14	1 12	11 43	0 45	21 22	0 17	15 40	17 15	18 1	17 49	23 42			n.a.
F 20	21 41	26 16	4 42	19 50	3 24	15 4	7 12	6 29	0 56	21 3	0 49	20 14	1 11	11 42	0 44	21 23	0 17	15 40	17 15	18 1	17 49	23 40			n.a.
S 21	21 31	27 18	4 6	20 7	3 9	15 3	7 18	6 44	0 57	21 1	0 49	20 13	1 11	11 41	0 44	21 23	0 17	15 41	17 15	18 2	17 50	23 39			n.a.
S 22	21 20	27 3	3 20	20 23	2 53	15 2	7 24	6 59	0 58	20 58	0 49	20 13	1 11	11 40	0 44	21 23	0 17	15 41	17 16	18 3	17 51	23 37			n.a.
M23	21 9	25 33	2 26	20 40	2 36	15 2	7 29	7 14	0 59	20 55	0 49	20 13	1 11	11 38	0 44	21 24	0 17	15 41	17 16	18 3	17 52	23 35			n.a.
T 24	20 58	22 56	1 25	20 56	2 19	15 2	7 33	7 29	1 0	20 52	0 49	20 13	1 11	11 37	0 44	21 24	0 17	15 42	17 16	18 3	17 53	23 33			n.a.
W25	20 47	19 21	0 20	21 12	2 2	15 3	7 36	7 45	1 1	20 49	0 49	20 13	1 11	11 36	0 44	21 24	0 17	15 42	17 17	18 3	17 54	23 31			n.a.
T 26	20 35	14 58	0n45	21 27	1 44	15 4	7 39	8 0	1 2	20 46	0 49	20 13	1 10	11 35	0 44	21 25	0 17	15 43	17 17	18 3	17 55	23 29			n.a.
F 27	20 23	10 1	1 49	21 41	1 27	15 6	7 41	8 15	1 3	20 43	0 50	20 12	1 10	11 34	0 44	21 25	0 17	15 43	17 17	18 3	17 55	23 27			n.a.
S 28	20 10	4 38	2 49	21 54	1 10	15 8	7 41	8 30	1 3	20 41	0 50	20 12	1 10	11 32	0 44	21 25	0 17	15 44	17 17	18 3	17 56	23 25			n.a.
S 29	19 57	0n59	3 42	22 6	0 54	15 11	7 42	8 46	1 4	20 38	0 50	20 12	1 10	11 31	0 44	21 26	0 17	15 44	17 18	18 3	17 57	23 23			n.a.
M30	19 44	6 39	4 26	22 16	0 37	15 14	7 41	9 1	1 5	20 35	0 50	20 12	1 10	11 30	0 44	21 26	0 17	15 45	17 18	18 3	17 58	23 21			n.a.
T 31	19n30	12n10	4n58	22n25	0s22	15n17	7s40	9s16	1s 6	20n32	0n50	20s12	1n 9	11n29	0n44	21s26	0s17	15s45	17s18	18s 3	17s59	23s19			n.a.

Julian Day Number = 1673026.5, Delta T = 03h19m32s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'45, Lahiri = - 5°46'44 Julian Calendar 1 July 133 BCE == Greg. Calendar 28 June 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

AUGUST 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 26 21	4♌51'42	2♉14	16♋51	14°R15	21♎34	3♌11	4°R48	2♍19	26°R 8	0°R 7	9°R38	9♒48	22♑38	n.a.	W 1
T 2	20 30 18	5°49'48	15°41	18° 6	13♋59	22°12	3°24	4♐47	2°22	26♑ 6	0♈ 7	9♒38	9°45	22°45	n.a.	T 2
F 3	20 34 14	6°47'56	29°33	19°27	13°44	22°51	3°37	4°46	2°26	26° 4	0° 6	9°38	9°42	22°51	n.a.	F 3
S 4	20 38 11	7°46'07	13♊49	20°53	13°32	23°30	3°50	4°45	2°29	26° 3	0° 6	9°38	9°39	22°58	n.a.	S 4
S 5	20 42 7	8°44'19	28°27	22°24	13°23	24° 9	4° 3	4°44	2°33	26° 1	0° 5	9°38	9°35	23° 5	n.a.	S 5
M 6	20 46 4	9°42'34	13♋22	23°59	13°16	24°48	4°16	4°43	2°37	26° 0	0° 4	9°D37	9°32	23°11	n.a.	M 6
T 7	20 50 1	10°40'50	28°28	25°38	13°11	25°27	4°29	4°43	2°40	25°58	0° 4	9°38	9°29	23°18	n.a.	T 7
W 8	20 53 57	11°39'09	13♌36	27°20	13°D 9	26° 6	4°42	4°42	2°44	25°56	0° 3	9°R38	9°26	23°24	n.a.	W 8
T 9	20 57 54	12°37'29	28°36	29° 6	13° 9	26°46	4°55	4°42	2°47	25°55	0° 2	9°37	9°23	23°31	n.a.	T 9
F 10	21 1 50	13°35'51	13♍21	0♌53	13°11	27°26	5° 8	4°42	2°51	25°53	0° 1	9°37	9°20	23°38	n.a.	F 10
S 11	21 5 47	14°34'15	27°43	2°43	13°15	28° 6	5°21	4°41	2°55	25°52	0° 1	9°37	9°16	23°44	n.a.	S 11
S 12	21 9 43	15°32'40	11♎40	4°34	13°22	28°46	5°34	4°D41	2°58	25°50	29♓59	9°36	9°13	23°51	n.a.	S 12
M13	21 13 40	16°31'08	25°10	6°26	13°31	29°26	5°47	4°41	3° 2	25°49	29°59	9°35	9°10	23°58	n.a.	M13
T 14	21 17 36	17°29'37	8♏14	8°19	13°42	0♏ 6	6° 0	4°41	3° 6	25°47	29°58	9°35	9° 7	24° 4	n.a.	T 14
W15	21 21 33	18°28'08	20°55	10°13	13°56	0°46	6°13	4°42	3° 9	25°46	29°58	9°D35	9° 4	24°11	n.a.	W15
T 16	21 25 30	19°26'40	3♐17	12° 6	14°11	1°27	6°26	4°42	3°13	25°44	29°57	9°35	9° 1	24°18	n.a.	T 16
F 17	21 29 26	20°25'14	15°24	14° 0	14°28	2° 7	6°39	4°42	3°17	25°43	29°56	9°36	8°57	24°24	n.a.	F 17
S 18	21 33 23	21°23'51	27°21	15°54	14°47	2°48	6°52	4°43	3°20	25°41	29°55	9°37	8°54	24°31	n.a.	S 18
S 19	21 37 19	22°22'28	9♑11	17°47	15° 8	3°29	7° 5	4°43	3°24	25°40	29°54	9°38	8°51	24°38	n.a.	S 19
M20	21 41 16	23°21'08	20°59	19°39	15°31	4°10	7°18	4°44	3°28	25°39	29°53	9°39	8°48	24°44	n.a.	M20
T 21	21 45 12	24°19'50	2♒48	21°31	15°55	4°51	7°30	4°45	3°32	25°37	29°52	9°40	8°45	24°51	n.a.	T 21
W22	21 49 9	25°18'34	14°41	23°22	16°21	5°32	7°43	4°46	3°35	25°36	29°52	9°R40	8°41	24°58	n.a.	W22
T 23	21 53 5	26°17'19	26°39	25°13	16°49	6°14	7°56	4°47	3°39	25°34	29°51	9°39	8°38	25° 4	n.a.	T 23
F 24	21 57 2	27°16'07	8♓46	27° 2	17°19	6°55	8° 9	4°48	3°43	25°33	29°50	9°38	8°35	25°11	n.a.	F 24
S 25	22 0 59	28°14'57	21° 2	28°51	17°49	7°37	8°21	4°49	3°47	25°32	29°49	9°35	8°32	25°18	n.a.	S 25
S 26	22 4 55	29°13'49	3♈30	0♍39	18°22	8°18	8°34	4°50	3°50	25°30	29°48	9°32	8°29	25°24	n.a.	S 26
M27	22 8 52	0♍12'43	16°10	2°26	18°56	9° 0	8°46	4°52	3°54	25°29	29°47	9°29	8°26	25°31	n.a.	M27
T 28	22 12 48	1°11'40	29° 4	4°12	19°31	9°42	8°59	4°53	3°58	25°28	29°46	9°26	8°22	25°37	n.a.	T 28
W29	22 16 45	2°10'39	12♉14	5°57	20° 7	10°24	9°12	4°55	4° 2	25°27	29°45	9°24	8°19	25°44	n.a.	W29
T 30	22 20 41	3° 9'40	25°40	7°42	20°45	11° 6	9°24	4°56	4° 6	25°25	29°44	9°23	8°16	25°51	n.a.	T 30
F 31	22 24 38	4♍ 8'44	9♊24	9♍25	21♋24	11♏48	9♌37	4♐58	4♍ 9	25♑24	29♓43	9°D23	8♒13	25♑57	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	19n16	17n18	5n15	22n31	0s 7	15n21	7s38	9s32	1s 7	20n29	0n50	20s12	1n 9	11n27	0n44	21s27	0s17	15s46	17s19	18s 2	18s 0	23s17			n.a.
T 2	19 2	21 45	5 16	22 35	0n 7	15 26	7 35	9 47	1 7	20 26	0 50	20 12	1 9	11 26	0 44	21 27	0 17	15 46	17 19	18 3	18 1	23 15			n.a.
F 3	18 47	25 8	4 59	22 37	0 20	15 30	7 32	10 2	1 8	20 23	0 50	20 12	1 9	11 25	0 44	21 27	0 17	15 47	17 19	18 3	18 1	23 13			n.a.
S 4	18 32	27 4	4 23	22 37	0 33	15 35	7 28	10 17	1 9	20 20	0 50	20 12	1 9	11 23	0 44	21 28	0 17	15 47	17 20	18 3	18 2	23 12			n.a.
S 5	18 17	27 12	3 30	22 33	0 44	15 40	7 24	10 33	1 9	20 17	0 50	20 12	1 9	11 22	0 44	21 28	0 17	15 48	17 20	18 3	18 3	23 10			n.a.
M 6	18 1	25 22	2 21	22 27	0 55	15 45	7 19	10 48	1 10	20 13	0 50	20 12	1 8	11 21	0 44	21 28	0 17	15 48	17 20	18 3	18 4	23 8			n.a.
T 7	17 45	21 43	1 2	22 19	1 4	15 51	7 14	11 3	1 11	20 10	0 50	20 12	1 8	11 20	0 44	21 29	0 17	15 49	17 20	18 3	18 5	23 6			n.a.
W 8	17 29	16 35	0s22	22 7	1 13	15 56	7 9	11 18	1 12	20 7	0 50	20 12	1 8	11 18	0 44	21 29	0 17	15 49	17 21	18 3	18 6	23 4			n.a.
T 9	17 13	10 29	1 44	21 53	1 21	16 2	7 3	11 33	1 12	20 4	0 51	20 13	1 8	11 17	0 44	21 29	0 17	15 50	17 21	18 3	18 7	23 2			n.a.
F 10	16 56	3 54	2 57	21 36	1 27	16 8	6 57	11 48	1 13	20 1	0 51	20 13	1 8	11 16	0 44	21 29	0 17	15 50	17 21	18 3	18 7	23 0			n.a.
S 11	16 39	2s42	3 57	21 17	1 33	16 14	6 50	12 4	1 14	19 58	0 51	20 13	1 7	11 14	0 44	21 30	0 17	15 51	17 21	18 3	18 8	22 58			n.a.
S 12	16 22	8 58	4 41	20 55	1 38	16 20	6 44	12 19	1 14	19 55	0 51	20 13	1 7	11 13	0 44	21 30	0 17	15 51	17 22	18 3	18 9	22 56			n.a.
M13	16 4	14 36	5 8	20 31	1 42	16 26	6 37	12 34	1 15	19 52	0 51	20 13	1 7	11 12	0 44	21 30	0 17	15 52	17 22	18 3	18 10	22 54			n.a.
T 14	15 46	19 24	5 17	20 4	1 45	16 32	6 29	12 49	1 15	19 49	0 51	20 13	1 7	11 10	0 44	21 31	0 17	15 52	17 22	18 3	18 11	22 52			n.a.
W15	15 28	23 11	5 11	19 36	1 47	16 38	6 22	13 3	1 16	19 45	0 51	20 14	1 7	11 9	0 44	21 31	0 17	15 53	17 22	18 3	18 12	22 50			n.a.
T 16	15 9	25 48	4 51	19 5	1 48	16 44	6 15	13 18	1 17	19 42	0 51	20 14	1 7	11 7	0 44	21 31	0 17	15 53	17 23	18 3	18 13	22 47			n.a.
F 17	14 51	27 10	4 18	18 33	1 49	16 50	6 7	13 33	1 17	19 39	0 51	20 14	1 6	11 6	0 44	21 31	0 17	15 54	17 23	18 3	18 13	22 45			n.a.
S 18	14 32	27 15	3 34	17 59	1 49	16 56	5 59	13 48	1 18	19 36	0 51	20 14	1 6	11 5	0 44	21 32	0 17	15 55	17 23	18 3	18 14	22 43			n.a.
S 19	14 13	26 4	2 41	17 24	1 48	17 2	5 51	14 3	1 18	19 33	0 52	20 15	1 6	11 3	0 44	21 32	0 17	15 55	17 23	18 2	18 15	22 41			n.a.
M20	13 53	23 44	1 42	16 47	1 47	17 7	5 43	14 17	1 19	19 29	0 52	20 15	1 6	11 2	0 44	21 32	0 17	15 56	17 23	18 2	18 16	22 39			n.a.
T 21	13 34	20 22	0 38	16 9	1 46	17 13	5 35	14 32	1 19	19 26	0 52	20 15	1 6	11 1	0 44	21 33	0 17	15 56	17 24	18 2	18 17	22 37			n.a.
W22	13 14	16 10	0n28	15 30	1 43	17 18	5 26	14 46	1 20	19 23	0 52	20 16	1 5	10 59	0 44	21 33	0 17	15 57	17 24	18 2	18 18	22 35			n.a.
T 23	12 54	11 19	1 33	14 50	1 40	17 23	5 18	15 1	1 20	19 20	0 52	20 16	1 5	10 58	0 44	21 33	0 17	15 57	17 24	18 2	18 18	22 33			n.a.
F 24	12 34	6 0	2 34	14 10	1 37	17 27	5 10	15 15	1 21	19 17	0 52	20 16	1 5	10 56	0 44	21 33	0 17	15 58	17 24	18 3	18 19	22 31			n.a.
S 25	12 13	0 24	3 29	13 28	1 34	17 32	5 1	15 29	1 21	19 13	0 52	20 17	1 5	10 55	0 44	21 34	0 17	15 58	17 24	18 3	18 20	22 29			n.a.
S 26	11 52	5n18	4 15	12 46	1 30	17 36	4 53	15 43	1 22	19 10	0 52	20 17	1 5	10 54	0 44	21 34	0 17	15 59	17 25	18 4	18 21	22 27			n.a.
M27	11 31	10 52	4 49	12 3	1 25	17 40	4 45	15 57	1 22	19 7	0 52	20 18	1 5	10 52	0 44	21 34	0 17	15 59	17 25	18 5	18 22	22 25			n.a.
T 28	11 10	16 5	5 10	11 20	1 21	17 43	4 36	16 11	1 23	19 4	0 53	20 18	1 4	10 51	0 44	21 34	0 17	16 0	17 25	18 6	18 23	22 23			n.a.
W29	10 49	20 40	5 14	10 36	1 16	17 46	4 28	16 25	1 23	19 0	0 53	20 18	1 4	10 49	0 44	21 35	0 17	16 0	17 25	18 6	18 23	22 21			n.a.
T 30	10 28	24 17	5 2	9 52	1 11	17 49	4 20	16 39	1 23	18 57	0 53	20 19	1 4	10 48	0 44	21 35	0 17	16 1	17 25	18 7	18 24	22 18			n.a.
F 31	10n 6	26n36	4n33	9n 8	1n 5	17n51	4s11	16s53	1s24	18n54	0n53	20s19	1n 4	10n47	0n44	21s35	0s17	16s 2	17s25	18s 7	18s25	22s16			n.a.

Julian Day Number = 1673057.5, Delta T = 03h19m31s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'41, Lahiri = - 5°46'40 Julian Calendar 1 Aug. 133 BCE == Greg. Calendar 29 July 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

SEPTEMBER 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 28 34	5♍ 7'51	23♊26	11♍ 8	22♋ 4	12♏31	9♌49	5♐ 0	4♍13	25°R23	29°R42	9♒24	8♒10	26♑ 4	n.a.	S 1
S 2	22 32 31	6° 7'00	7♋46	12°49	22°45	13°13	10° 1	5° 2	4°17	25♑22	29♓41	9°25	8° 7	26°11	n.a.	S 2
M 3	22 36 27	7° 6'11	22°21	14°30	23°28	13°56	10°14	5° 4	4°21	25°21	29°40	9°26	8° 3	26°17	n.a.	M 3
T 4	22 40 24	8° 5'25	7♌ 7	16°10	24°11	14°38	10°26	5° 6	4°25	25°20	29°39	9°R27	8° 0	26°24	n.a.	T 4
W 5	22 44 21	9° 4'40	21°58	17°49	24°55	15°21	10°38	5° 8	4°28	25°19	29°38	9°27	7°57	26°31	n.a.	W 5
T 6	22 48 17	10° 3'59	6♍47	19°27	25°41	16° 4	10°51	5°10	4°32	25°18	29°37	9°25	7°54	26°37	n.a.	T 6
F 7	22 52 14	11° 3'19	21°26	21° 5	26°27	16°47	11° 3	5°13	4°36	25°16	29°36	9°21	7°51	26°44	n.a.	F 7
S 8	22 56 10	12° 2'41	5♎48	22°42	27°14	17°30	11°15	5°15	4°40	25°15	29°34	9°16	7°47	26°51	n.a.	S 8
S 9	23 0 7	13° 2'05	19°48	24°18	28° 2	18°13	11°27	5°18	4°43	25°14	29°33	9°11	7°44	26°57	n.a.	S 9
M10	23 4 3	14° 1'32	3♏23	25°53	28°51	18°56	11°39	5°21	4°47	25°14	29°32	9° 6	7°41	27° 4	n.a.	M10
T 11	23 8 0	15° 1'00	16°32	27°27	29°41	19°39	11°51	5°23	4°51	25°13	29°31	9° 1	7°38	27°11	n.a.	T 11
W12	23 11 56	16° 0'30	29°17	29° 1	0♌31	20°23	12° 3	5°26	4°55	25°12	29°30	8°58	7°35	27°17	n.a.	W12
T 13	23 15 53	17° 0'02	11♐41	0♎34	1°23	21° 6	12°15	5°29	4°58	25°11	29°29	8°D57	7°32	27°24	n.a.	T 13
F 14	23 19 50	17°59'36	23°48	2° 6	2°14	21°50	12°26	5°32	5° 2	25°10	29°28	8°57	7°28	27°30	n.a.	F 14
S 15	23 23 46	18°59'12	5♑43	3°38	3° 7	22°34	12°38	5°35	5° 6	25° 9	29°27	8°58	7°25	27°37	n.a.	S 15
S 16	23 27 43	19°58'50	17°33	5° 9	4° 0	23°17	12°50	5°39	5°10	25° 8	29°26	9° 0	7°22	27°44	n.a.	S 16
M17	23 31 39	20°58'29	29°20	6°39	4°54	24° 1	13° 1	5°42	5°13	25° 8	29°24	9° 1	7°19	27°50	n.a.	M17
T 18	23 35 36	21°58'11	11♒11	8° 9	5°49	24°45	13°13	5°45	5°17	25° 7	29°23	9°R 2	7°16	27°57	n.a.	T 18
W19	23 39 32	22°57'54	23° 9	9°38	6°44	25°29	13°24	5°49	5°21	25° 6	29°22	9° 0	7°13	28° 4	n.a.	W19
T 20	23 43 29	23°57'39	5♓16	11° 6	7°40	26°13	13°36	5°52	5°24	25° 6	29°21	8°57	7° 9	28°10	n.a.	T 20
F 21	23 47 25	24°57'26	17°36	12°33	8°36	26°57	13°47	5°56	5°28	25° 5	29°20	8°52	7° 6	28°17	n.a.	F 21
S 22	23 51 22	25°57'15	0♈10	14° 0	9°33	27°41	13°58	6° 0	5°31	25° 4	29°19	8°45	7° 3	28°24	n.a.	S 22
S 23	23 55 18	26°57'07	12°57	15°26	10°31	28°26	14° 9	6° 3	5°35	25° 4	29°18	8°36	7° 0	28°30	n.a.	S 23
M24	23 59 15	27°57'00	25°58	16°51	11°29	29°10	14°20	6° 7	5°39	25° 3	29°16	8°27	6°57	28°37	n.a.	M24
T 25	0 3 12	28°56'55	9♉12	18°16	12°27	29°55	14°31	6°11	5°42	25° 3	29°15	8°19	6°53	28°44	n.a.	T 25
W26	0 7 8	29°56'53	22°37	19°40	13°26	0♐39	14°42	6°15	5°46	25° 2	29°14	8°12	6°50	28°50	n.a.	W26
T 27	0 11 5	0♎56'53	6♊13	21° 2	14°26	1°24	14°53	6°19	5°49	25° 2	29°13	8° 7	6°47	28°57	n.a.	T 27
F 28	0 15 1	1°56'56	20° 0	22°24	15°26	2° 8	15° 4	6°24	5°53	25° 1	29°12	8° 4	6°44	29° 4	n.a.	F 28
S 29	0 18 58	2°57'01	3♋56	23°45	16°26	2°53	15°15	6°28	5°56	25° 1	29°11	8°D 3	6°41	29°10	n.a.	S 29
S 30	0 22 54	3♎57'08	18♋ 2	25♎ 5	17♌27	3♐38	15♌25	6♐32	6♍ 0	25♑ 1	29♓10	8♒ 4	6♒38	29♑17	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n44	27n19	3n47	8n23	0n59	17n53	4s 3	17s 6	1s24	18n51	0n53	20s20	1n 4	10n45	0n44	21s35	0s17	16s 2	17s26	18s 6	18s26	22s14		n.a.
S 2	9 22	26 14	2 45	7 39	0 54	17 55	3 55	17 20	1 25	18 47	0 53	20 20	1 3	10 44	0 44	21 35	0 17	16 3	17 26	18 6	18 27	22 12		n.a.
M 3	9 0	23 22	1 33	6 54	0 48	17 56	3 46	17 33	1 25	18 44	0 53	20 21	1 3	10 43	0 44	21 36	0 17	16 3	17 26	18 6	18 28	22 10		n.a.
T 4	8 38	18 55	0 13	6 9	0 41	17 57	3 38	17 46	1 25	18 41	0 53	20 22	1 3	10 41	0 44	21 36	0 17	16 4	17 26	18 5	18 28	22 8		n.a.
W 5	8 15	13 16	1s 8	5 24	0 35	17 57	3 30	17 59	1 26	18 38	0 54	20 22	1 3	10 40	0 44	21 36	0 17	16 4	17 26	18 6	18 29	22 6		n.a.
T 6	7 53	6 54	2 24	4 39	0 28	17 57	3 22	18 12	1 26	18 34	0 54	20 23	1 3	10 38	0 44	21 36	0 17	16 5	17 26	18 6	18 30	22 4		n.a.
F 7	7 30	0 14	3 30	3 55	0 22	17 56	3 14	18 25	1 26	18 31	0 54	20 23	1 3	10 37	0 44	21 37	0 17	16 5	17 26	18 7	18 31	22 1		n.a.
S 8	7 7	6s19	4 21	3 10	0 15	17 55	3 6	18 38	1 27	18 28	0 54	20 24	1 2	10 36	0 44	21 37	0 17	16 6	17 26	18 8	18 32	21 59		n.a.
S 9	6 44	12 22	4 54	2 25	0 8	17 53	2 58	18 51	1 27	18 25	0 54	20 25	1 2	10 34	0 44	21 37	0 17	16 6	17 27	18 10	18 33	21 57		n.a.
M10	6 21	17 38	5 10	1 41	0 2	17 51	2 50	19 3	1 27	18 21	0 54	20 25	1 2	10 33	0 44	21 37	0 17	16 7	17 27	18 11	18 33	21 55		n.a.
T 11	5 58	21 54	5 9	0 57	0s 5	17 49	2 42	19 15	1 28	18 18	0 54	20 26	1 2	10 31	0 44	21 37	0 17	16 7	17 27	18 12	18 34	21 53		n.a.
W12	5 35	24 59	4 53	0 13	0 12	17 45	2 34	19 27	1 28	18 15	0 55	20 27	1 2	10 30	0 44	21 37	0 17	16 8	17 27	18 13	18 35	21 51		n.a.
T 13	5 11	26 47	4 23	0s31	0 19	17 42	2 27	19 39	1 28	18 12	0 55	20 27	1 2	10 29	0 44	21 38	0 17	16 8	17 27	18 14	18 36	21 48		n.a.
F 14	4 48	27 15	3 41	1 15	0 26	17 38	2 19	19 51	1 28	18 9	0 55	20 28	1 1	10 27	0 44	21 38	0 17	16 9	17 27	18 14	18 37	21 46		n.a.
S 15	4 24	26 26	2 51	1 58	0 33	17 33	2 12	20 3	1 29	18 5	0 55	20 29	1 1	10 26	0 44	21 38	0 17	16 9	17 27	18 13	18 38	21 44		n.a.
S 16	4 1	24 26	1 54	2 41	0 40	17 28	2 4	20 14	1 29	18 2	0 55	20 29	1 1	10 25	0 44	21 38	0 17	16 10	17 27	18 13	18 38	21 42		n.a.
M17	3 37	21 23	0 52	3 23	0 47	17 22	1 57	20 26	1 29	17 59	0 55	20 30	1 1	10 23	0 44	21 38	0 17	16 10	17 27	18 12	18 39	21 40		n.a.
T 18	3 13	17 26	0n12	4 5	0 54	17 16	1 49	20 37	1 29	17 56	0 56	20 31	1 1	10 22	0 44	21 38	0 17	16 11	17 27	18 12	18 40	21 38		n.a.
W19	2 49	12 46	1 16	4 47	1 1	17 9	1 42	20 48	1 30	17 53	0 56	20 32	1 1	10 20	0 44	21 38	0 17	16 11	17 27	18 13	18 41	21 35		n.a.
T 20	2 26	7 33	2 17	5 28	1 8	17 2	1 35	20 59	1 30	17 49	0 56	20 33	1 0	10 19	0 44	21 39	0 17	16 12	17 27	18 13	18 42	21 33		n.a.
F 21	2 2	1 59	3 13	6 9	1 14	16 54	1 28	21 9	1 30	17 46	0 56	20 33	1 0	10 18	0 44	21 39	0 17	16 12	17 27	18 15	18 42	21 31		n.a.
S 22	1 38	3n44	4 1	6 49	1 21	16 46	1 21	21 20	1 30	17 43	0 56	20 34	1 0	10 16	0 44	21 39	0 17	16 13	17 27	18 17	18 43	21 29		n.a.
S 23	1 14	9 25	4 37	7 29	1 27	16 37	1 14	21 30	1 30	17 40	0 56	20 35	1 0	10 15	0 44	21 39	0 17	16 13	17 27	18 19	18 44	21 26		n.a.
M24	0 49	14 47	5 0	8 8	1 34	16 27	1 8	21 40	1 30	17 37	0 57	20 36	1 0	10 14	0 44	21 39	0 17	16 14	17 27	18 21	18 45	21 24		n.a.
T 25	0 25	19 33	5 7	8 47	1 40	16 17	1 1	21 50	1 30	17 34	0 57	20 37	1 0	10 12	0 44	21 39	0 17	16 14	17 27	18 24	18 46	21 22		n.a.
W26	0 1	23 25	4 57	9 25	1 46	16 6	0 55	22 0	1 31	17 31	0 57	20 37	0 59	10 11	0 44	21 39	0 17	16 15	17 27	18 25	18 47	21 20		n.a.
T 27	0s23	26 2	4 31	10 2	1 52	15 55	0 48	22 9	1 31	17 28	0 57	20 38	0 59	10 10	0 44	21 39	0 17	16 15	17 27	18 27	18 47	21 18		n.a.
F 28	0 47	27 8	3 49	10 38	1 58	15 44	0 42	22 18	1 31	17 25	0 57	20 39	0 59	10 9	0 44	21 39	0 17	16 16	17 27	18 27	18 48	21 15		n.a.
S 29	1 11	26 32	2 53	11 14	2 4	15 31	0 36	22 28	1 31	17 22	0 57	20 40	0 59	10 7	0 44	21 39	0 17	16 16	17 27	18 28	18 49	21 13		n.a.
S 30	1s35	24n13	1n45	11s49	2s 9	15n19	0s29	22s36	1s31	17n19	0n58	20s41	0n59	10n 6	0n44	21s40	0s17	16s16	17s27	18s28	18s50	21s11		n.a.

Julian Day Number = 1673088.5, Delta T = 03h19m30s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'36, Lahiri = - 5°46'36 Julian Calendar 1 Sept. 133 BCE == Greg. Calendar 29 Aug. 133 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

OCTOBER 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 26 51	4♎57'17	2♌16	26♎24	18♌28	4♐23	15♌36	6♐37	6♍ 3	25°R 0	29°R 8	8°R 5	6♒34	29♉23	n.a.	M 1
T 2	0 30 47	5°57'28	16°38	27°41	19°30	5° 7	15°46	6°41	6° 7	25♉ 0	29♓ 7	8♒ 4	6°31	29°30	n.a.	T 2
W 3	0 34 44	6°57'42	1♍ 3	28°57	20°32	5°52	15°57	6°46	6°10	25° 0	29° 6	8° 2	6°28	29°37	n.a.	W 3
T 4	0 38 41	7°57'57	15°28	0♏12	21°35	6°37	16° 7	6°50	6°13	25° 0	29° 5	7°58	6°25	29°43	n.a.	T 4
F 5	0 42 37	8°58'15	29°48	1°25	22°37	7°23	16°17	6°55	6°17	24°59	29° 4	7°50	6°22	29°50	n.a.	F 5
S 6	0 46 34	9°58'34	13♎56	2°36	23°41	8° 8	16°27	7° 0	6°20	24°59	29° 3	7°40	6°18	29°57	n.a.	S 6
S 7	0 50 30	10°58'56	27°47	3°45	24°44	8°53	16°37	7° 5	6°23	24°59	29° 2	7°30	6°15	0♒ 3	n.a.	S 7
M 8	0 54 27	11°59'19	11♏18	4°52	25°48	9°38	16°47	7°10	6°27	24°59	29° 1	7°19	6°12	0°10	n.a.	M 8
T 9	0 58 23	12°59'44	24°26	5°56	26°52	10°24	16°57	7°15	6°30	24°59	28°59	7° 9	6° 9	0°17	n.a.	T 9
W10	1 2 20	14° 0'10	7♐11	6°58	27°57	11° 9	17° 7	7°20	6°33	24°D59	28°58	7° 1	6° 6	0°23	n.a.	W10
T 11	1 6 16	15° 0'38	19°36	7°56	29° 1	11°54	17°16	7°25	6°36	24°59	28°57	6°55	6° 3	0°30	n.a.	T 11
F 12	1 10 13	16° 1'07	1♑44	8°50	0♍ 6	12°40	17°26	7°30	6°40	24°59	28°56	6°52	5°59	0°37	n.a.	F 12
S 13	1 14 10	17° 1'38	13°40	9°41	1°12	13°25	17°35	7°35	6°43	24°59	28°55	6°D51	5°56	0°43	n.a.	S 13
S 14	1 18 6	18° 2'11	25°29	10°27	2°17	14°11	17°44	7°41	6°46	24°59	28°54	6°51	5°53	0°50	n.a.	S 14
M15	1 22 3	19° 2'44	7♒17	11° 8	3°23	14°57	17°53	7°46	6°49	24°59	28°53	6°R51	5°50	0°57	n.a.	M15
T 16	1 25 59	20° 3'19	19° 9	11°43	4°30	15°42	18° 2	7°52	6°52	25° 0	28°52	6°50	5°47	1° 3	n.a.	T 16
W17	1 29 56	21° 3'56	1♓10	12°12	5°36	16°28	18°11	7°57	6°55	25° 0	28°51	6°48	5°44	1°10	n.a.	W17
T 18	1 33 52	22° 4'33	13°25	12°34	6°43	17°14	18°20	8° 3	6°58	25° 0	28°50	6°43	5°40	1°16	n.a.	T 18
F 19	1 37 49	23° 5'12	25°56	12°48	7°50	18° 0	18°29	8° 8	7° 1	25° 0	28°49	6°35	5°37	1°23	n.a.	F 19
S 20	1 41 45	24° 5'53	8♈45	12°R53	8°57	18°46	18°37	8°14	7° 4	25° 1	28°48	6°24	5°34	1°30	n.a.	S 20
S 21	1 45 42	25° 6'34	21°53	12°49	10° 4	19°31	18°46	8°20	7° 6	25° 1	28°47	6°12	5°31	1°36	n.a.	S 21
M22	1 49 39	26° 7'18	5♉18	12°36	11°12	20°17	18°54	8°25	7° 9	25° 1	28°46	5°59	5°28	1°43	n.a.	M22
T 23	1 53 35	27° 8'03	18°57	12°11	12°20	21° 3	19° 2	8°31	7°12	25° 2	28°45	5°46	5°24	1°50	n.a.	T 23
W24	1 57 32	28° 8'49	2♊48	11°36	13°28	21°49	19°10	8°37	7°15	25° 2	28°44	5°35	5°21	1°56	n.a.	W24
T 25	2 1 28	29° 9'37	16°46	10°51	14°36	22°35	19°18	8°43	7°17	25° 3	28°43	5°27	5°18	2° 3	n.a.	T 25
F 26	2 5 25	0♏10'27	0♋48	9°55	15°45	23°21	19°26	8°49	7°20	25° 3	28°42	5°22	5°15	2°10	n.a.	F 26
S 27	2 9 21	1°11'18	14°52	8°50	16°53	24° 8	19°34	8°55	7°23	25° 4	28°41	5°20	5°12	2°16	n.a.	S 27
S 28	2 13 18	2°12'11	28°57	7°37	18° 2	24°54	19°41	9° 1	7°25	25° 5	28°40	5°19	5° 9	2°23	n.a.	S 28
M29	2 17 14	3°13'06	13♌ 1	6°19	19°11	25°40	19°49	9° 7	7°28	25° 5	28°39	5°19	5° 5	2°30	n.a.	M29
T 30	2 21 11	4°14'02	27° 5	4°57	20°20	26°26	19°56	9°13	7°30	25° 6	28°38	5°18	5° 2	2°36	n.a.	T 30
W31	2 25 8	5♏14'59	11♍ 7	3♏34	21♍30	27♐12	20♌ 3	9♐20	7♍33	25♉ 7	28♓37	5♒15	4♒59	2♒43	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	1s59	20n23	0n31	12s23	2s14	15n 6	0s23	22s45	1s31	17n16	0n58	20s42	0n59	10n 5	0n44	21s40	0s17	16s17	17s27	18s27	18s51	21s 8		n.a.
T 2	2 24	15 18	0s46	12 56	2 19	14 52	0 18	22 53	1 31	17 13	0 58	20 43	0 58	10 3	0 44	21 40	0 17	16 17	17 27	18 27	18 51	21 6		n.a.
W 3	2 48	9 22	2 0	13 28	2 24	14 37	0 12	23 2	1 31	17 10	0 58	20 44	0 58	10 2	0 44	21 40	0 17	16 18	17 27	18 28	18 52	21 4		n.a.
T 4	3 12	2 56	3 6	13 59	2 28	14 23	0 6	23 10	1 31	17 7	0 58	20 45	0 58	10 1	0 44	21 40	0 17	16 18	17 27	18 29	18 53	21 2		n.a.
F 5	3 36	3s35	4 0	14 28	2 32	14 7	0 0	23 17	1 31	17 4	0 59	20 46	0 58	10 0	0 44	21 40	0 17	16 18	17 27	18 31	18 54	20 59		n.a.
S 6	4 0	9 49	4 38	14 57	2 36	13 52	0n 5	23 25	1 31	17 1	0 59	20 47	0 58	9 59	0 44	21 40	0 17	16 19	17 27	18 34	18 55	20 57		n.a.
S 7	4 24	15 27	4 59	15 24	2 39	13 35	0 10	23 32	1 31	16 58	0 59	20 48	0 58	9 57	0 44	21 40	0 17	16 19	17 27	18 36	18 55	20 55		n.a.
M 8	4 48	20 10	5 3	15 49	2 41	13 19	0 16	23 39	1 31	16 55	0 59	20 48	0 58	9 56	0 44	21 40	0 17	16 20	17 27	18 39	18 56	20 53		n.a.
T 9	5 11	23 46	4 50	16 13	2 44	13 1	0 21	23 46	1 31	16 53	0 59	20 49	0 57	9 55	0 44	21 40	0 17	16 20	17 26	18 42	18 57	20 50		n.a.
W10	5 35	26 4	4 23	16 35	2 45	12 44	0 26	23 52	1 31	16 50	1 0	20 50	0 57	9 54	0 44	21 40	0 17	16 20	17 26	18 44	18 58	20 48		n.a.
T 11	5 59	27 1	3 44	16 55	2 46	12 25	0 31	23 59	1 31	16 47	1 0	20 51	0 57	9 53	0 45	21 40	0 17	16 21	17 26	18 45	18 59	20 46		n.a.
F 12	6 22	26 38	2 56	17 14	2 46	12 7	0 35	24 5	1 31	16 44	1 0	20 52	0 57	9 51	0 45	21 40	0 17	16 21	17 26	18 46	18 59	20 43		n.a.
S 13	6 46	25 0	2 0	17 30	2 46	11 48	0 40	24 11	1 31	16 42	1 0	20 53	0 57	9 50	0 45	21 40	0 17	16 21	17 26	18 46	19 0	20 41		n.a.
S 14	7 9	22 16	1 0	17 43	2 44	11 28	0 45	24 16	1 31	16 39	1 0	20 54	0 57	9 49	0 45	21 40	0 17	16 22	17 26	18 46	19 1	20 39		n.a.
M15	7 32	18 37	0n 2	17 54	2 42	11 8	0 49	24 21	1 31	16 36	1 1	20 55	0 57	9 48	0 45	21 40	0 17	16 22	17 26	18 46	19 2	20 36		n.a.
T 16	7 56	14 13	1 5	18 2	2 39	10 48	0 53	24 26	1 31	16 34	1 1	20 56	0 56	9 47	0 45	21 40	0 17	16 22	17 26	18 46	19 3	20 34		n.a.
W17	8 19	9 14	2 5	18 7	2 34	10 27	0 58	24 31	1 31	16 31	1 1	20 57	0 56	9 46	0 45	21 40	0 17	16 22	17 25	18 47	19 3	20 32		n.a.
T 18	8 42	3 49	3 1	18 8	2 29	10 6	1 2	24 36	1 31	16 29	1 1	20 59	0 56	9 45	0 45	21 40	0 17	16 23	17 25	18 48	19 4	20 29		n.a.
F 19	9 4	1n52	3 49	18 6	2 21	9 45	1 6	24 40	1 31	16 26	1 1	21 0	0 56	9 44	0 45	21 40	0 17	16 23	17 25	18 50	19 5	20 27		n.a.
S 20	9 27	7 35	4 27	18 0	2 13	9 23	1 10	24 44	1 30	16 24	1 2	21 1	0 56	9 43	0 45	21 40	0 17	16 23	17 25	18 53	19 6	20 25		n.a.
S 21	9 50	13 7	4 51	17 49	2 3	9 0	1 13	24 48	1 30	16 21	1 2	21 2	0 56	9 42	0 45	21 39	0 17	16 23	17 25	18 56	19 6	20 22		n.a.
M22	10 12	18 9	5 0	17 34	1 51	8 38	1 17	24 51	1 30	16 19	1 2	21 3	0 56	9 41	0 45	21 39	0 17	16 24	17 25	19 0	19 7	20 20		n.a.
T 23	10 34	22 20	4 53	17 13	1 38	8 15	1 20	24 54	1 30	16 16	1 2	21 4	0 56	9 39	0 45	21 39	0 17	16 24	17 24	19 3	19 8	20 18		n.a.
W24	10 56	25 20	4 28	16 48	1 23	7 52	1 24	24 57	1 30	16 14	1 3	21 5	0 55	9 38	0 45	21 39	0 17	16 24	17 24	19 5	19 9	20 15		n.a.
T 25	11 18	26 48	3 47	16 18	1 7	7 28	1 27	25 0	1 30	16 12	1 3	21 6	0 55	9 37	0 45	21 39	0 17	16 24	17 24	19 7	19 10	20 13		n.a.
F 26	11 40	26 34	2 52	15 43	0 49	7 4	1 30	25 2	1 29	16 9	1 3	21 7	0 55	9 37	0 45	21 39	0 17	16 25	17 24	19 9	19 10	20 10		n.a.
S 27	12 1	24 38	1 46	15 4	0 30	6 40	1 33	25 4	1 29	16 7	1 3	21 8	0 55	9 36	0 45	21 39	0 17	16 25	17 24	19 9	19 11	20 8		n.a.
S 28	12 23	21 9	0 34	14 21	0 9	6 15	1 36	25 6	1 29	16 5	1 4	21 9	0 55	9 35	0 45	21 39	0 17	16 25	17 23	19 9	19 12	20 6		n.a.
M29	12 44	16 27	0s41	13 36	0n11	5 50	1 39	25 7	1 29	16 3	1 4	21 10	0 55	9 34	0 45	21 39	0 17	16 25	17 23	19 9	19 13	20 3		n.a.
T 30	13 5	10 52	1 52	12 49	0 32	5 25	1 41	25 8	1 29	16 1	1 4	21 11	0 55	9 33	0 45	21 39	0 17	16 25	17 23	19 10	19 13	20 1		n.a.
W31	13s25	4n45	2s57	12s 2	0n52	5n 0	1n44	25s 9	1s28	15n59	1n 4	21s12	0n55	9n32	0n45	21s38	0s17	16s25	17s23	19s10	19s14	19s59		n.a.

Julian Day Number = 1673118.5, Delta T = 03h19m29s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'32, Lahiri = - 5°46'32 Julian Calendar 1 Oct. 133 BCE == Greg. Calendar 28 Sept. 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

NOVEMBER 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 29 4	6♏15'58	25♍ 5	2°R14	22♍39	27♐59	20♌10	9♐26	7♍35	25♑ 7	28°R36	5°R 9	4♒56	2♒49	n.a.	T 1
F 2	2 33 1	7°16'58	8♎57	0♏59	23°49	28°45	20°17	9°32	7°38	25° 8	28♓35	5♒ 0	4°53	2°56	n.a.	F 2
S 3	2 36 57	8°17'59	22°40	29♎51	24°59	29°31	20°24	9°39	7°40	25° 9	28°34	4°48	4°50	3° 3	n.a.	S 3
S 4	2 40 54	9°19'01	6♏11	28°52	26° 9	0♑18	20°30	9°45	7°42	25°10	28°34	4°35	4°46	3° 9	n.a.	S 4
M 5	2 44 50	10°20'05	19°26	28° 3	27°19	1° 4	20°37	9°51	7°44	25°11	28°33	4°21	4°43	3°16	n.a.	M 5
T 6	2 48 47	11°21'10	2♐24	27°25	28°30	1°50	20°43	9°58	7°47	25°11	28°32	4° 9	4°40	3°23	n.a.	T 6
W 7	2 52 43	12°22'15	15° 3	26°59	29°40	2°37	20°49	10° 4	7°49	25°12	28°31	3°58	4°37	3°29	n.a.	W 7
T 8	2 56 40	13°23'21	27°24	26°45	0♎51	3°23	20°55	10°11	7°51	25°13	28°30	3°50	4°34	3°36	n.a.	T 8
F 9	3 0 37	14°24'28	9♑31	26°D41	2° 2	4°10	21° 1	10°17	7°53	25°14	28°30	3°46	4°30	3°43	n.a.	F 9
S 10	3 4 33	15°25'36	21°26	26°47	3°12	4°56	21° 6	10°24	7°55	25°15	28°29	3°43	4°27	3°49	n.a.	S 10
S 11	3 8 30	16°26'44	3♒15	27° 3	4°23	5°43	21°12	10°31	7°57	25°16	28°28	3°D43	4°24	3°56	n.a.	S 11
M12	3 12 26	17°27'52	15° 2	27°27	5°34	6°29	21°17	10°37	7°59	25°18	28°28	3°R43	4°21	4° 3	n.a.	M12
T 13	3 16 23	18°29'01	26°54	27°59	6°46	7°16	21°22	10°44	8° 1	25°19	28°27	3°42	4°18	4° 9	n.a.	T 13
W14	3 20 19	19°30'11	8♓55	28°38	7°57	8° 2	21°27	10°51	8° 2	25°20	28°26	3°41	4°15	4°16	n.a.	W14
T 15	3 24 16	20°31'20	21°11	29°24	9° 8	8°49	21°32	10°57	8° 4	25°21	28°26	3°37	4°11	4°23	n.a.	T 15
F 16	3 28 12	21°32'30	3♈46	0♏15	10°20	9°35	21°37	11° 4	8° 6	25°22	28°25	3°30	4° 8	4°29	n.a.	F 16
S 17	3 32 9	22°33'41	16°44	1°10	11°32	10°22	21°41	11°11	8° 8	25°23	28°24	3°21	4° 5	4°36	n.a.	S 17
S 18	3 36 6	23°34'52	0♉ 5	2°10	12°43	11° 9	21°46	11°18	8° 9	25°25	28°24	3°10	4° 2	4°42	n.a.	S 18
M19	3 40 2	24°36'03	13°49	3°14	13°55	11°55	21°50	11°25	8°11	25°26	28°23	2°58	3°59	4°49	n.a.	M19
T 20	3 43 59	25°37'15	27°52	4°21	15° 7	12°42	21°54	11°32	8°12	25°27	28°23	2°47	3°55	4°56	n.a.	T 20
W21	3 47 55	26°38'27	12♊10	5°30	16°19	13°28	21°57	11°39	8°14	25°29	28°22	2°37	3°52	5° 2	n.a.	W21
T 22	3 51 52	27°39'40	26°36	6°42	17°31	14°15	22° 1	11°45	8°15	25°30	28°21	2°30	3°49	5° 9	n.a.	T 22
F 23	3 55 48	28°40'53	11♋ 4	7°57	18°44	15° 2	22° 4	11°52	8°16	25°32	28°21	2°25	3°46	5°16	n.a.	F 23
S 24	3 59 45	29°42'07	25°29	9°13	19°56	15°48	22° 8	11°59	8°18	25°33	28°21	2°23	3°43	5°22	n.a.	S 24
S 25	4 3 42	0♐43'21	9♌48	10°31	21° 8	16°35	22°11	12° 6	8°19	25°34	28°20	2°D23	3°40	5°29	n.a.	S 25
M26	4 7 38	1°44'36	23°58	11°51	22°21	17°21	22°14	12°13	8°20	25°36	28°20	2°24	3°36	5°36	n.a.	M26
T 27	4 11 35	2°45'51	7♍58	13°12	23°33	18° 8	22°16	12°20	8°21	25°38	28°19	2°R24	3°33	5°42	n.a.	T 27
W28	4 15 31	3°47'07	21°47	14°34	24°46	18°55	22°19	12°27	8°22	25°39	28°19	2°22	3°30	5°49	n.a.	W28
T 29	4 19 28	4°48'23	5♎26	15°57	25°58	19°41	22°21	12°34	8°23	25°41	28°18	2°18	3°27	5°56	n.a.	T 29
F 30	4 23 24	5♐49'39	18♎55	17♏21	27♎11	20♑28	22♌23	12♐41	8♍24	25♑42	28♓18	2♒12	3♒24	6♒ 2	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s46	1s33	3s51	11s17	1n11	4n34	1n46	25s10	1s28	15n57	1n 5	21s13	0n54	9n31	0n45	21s38	0s17	16s26	17s23	19s12	19s15	19s56		n.a.
F 2	14 6	7 43	4 30	10 34	1 29	4 8	1 49	25 10	1 28	15 55	1 5	21 14	0 54	9 30	0 45	21 38	0 17	16 26	17 22	19 14	19 16	19 54		n.a.
S 3	14 26	13 27	4 53	9 55	1 45	3 42	1 51	25 10	1 28	15 53	1 5	21 15	0 54	9 29	0 45	21 38	0 17	16 26	17 22	19 17	19 17	19 51		n.a.
S 4	14 46	18 26	5 0	9 20	1 59	3 16	1 53	25 10	1 27	15 51	1 5	21 16	0 54	9 28	0 45	21 38	0 17	16 26	17 22	19 20	19 17	19 49		n.a.
M 5	15 5	22 26	4 50	8 52	2 11	2 50	1 55	25 10	1 27	15 49	1 6	21 17	0 54	9 28	0 45	21 38	0 17	16 26	17 22	19 23	19 18	19 47		n.a.
T 6	15 25	25 12	4 25	8 29	2 21	2 23	1 57	25 9	1 27	15 47	1 6	21 19	0 54	9 27	0 45	21 38	0 17	16 26	17 21	19 26	19 19	19 44		n.a.
W 7	15 43	26 38	3 47	8 12	2 29	1 56	1 58	25 8	1 27	15 46	1 6	21 20	0 54	9 26	0 45	21 37	0 17	16 26	17 21	19 29	19 20	19 42		n.a.
T 8	16 2	26 41	3 0	8 1	2 35	1 29	2 0	25 6	1 26	15 44	1 6	21 21	0 54	9 25	0 45	21 37	0 17	16 26	17 21	19 31	19 20	19 39		n.a.
F 9	16 21	25 26	2 5	7 56	2 39	1 2	2 1	25 5	1 26	15 42	1 7	21 22	0 54	9 25	0 45	21 37	0 17	16 26	17 21	19 32	19 21	19 37		n.a.
S 10	16 39	23 3	1 5	7 56	2 41	0 35	2 3	25 3	1 26	15 41	1 7	21 23	0 53	9 24	0 45	21 37	0 17	16 26	17 20	19 33	19 22	19 34		n.a.
S 11	16 57	19 42	0 2	8 1	2 42	0 8	2 4	25 1	1 25	15 39	1 7	21 24	0 53	9 23	0 46	21 37	0 17	16 26	17 20	19 33	19 23	19 32		n.a.
M12	17 14	15 33	1n 0	8 11	2 41	0s20	2 5	24 58	1 25	15 38	1 7	21 25	0 53	9 23	0 46	21 36	0 17	16 26	17 20	19 33	19 23	19 29		n.a.
T 13	17 31	10 49	2 0	8 24	2 40	0 47	2 6	24 55	1 25	15 36	1 8	21 26	0 53	9 22	0 46	21 36	0 17	16 26	17 19	19 33	19 24	19 27		n.a.
W14	17 48	5 37	2 55	8 40	2 37	1 15	2 7	24 52	1 25	15 35	1 8	21 27	0 53	9 21	0 46	21 36	0 17	16 26	17 19	19 33	19 25	19 25		n.a.
T 15	18 5	0 7	3 44	8 59	2 34	1 42	2 8	24 49	1 24	15 34	1 8	21 28	0 53	9 21	0 46	21 36	0 18	16 26	17 19	19 34	19 26	19 22		n.a.
F 16	18 21	5n32	4 23	9 21	2 29	2 10	2 9	24 45	1 24	15 33	1 9	21 29	0 53	9 20	0 46	21 36	0 18	16 26	17 18	19 36	19 27	19 20		n.a.
S 17	18 37	11 6	4 50	9 45	2 25	2 38	2 9	24 41	1 23	15 31	1 9	21 30	0 53	9 19	0 46	21 35	0 18	16 26	17 18	19 38	19 27	19 17		n.a.
S 18	18 53	16 20	5 2	10 11	2 19	3 6	2 10	24 37	1 23	15 30	1 9	21 31	0 53	9 19	0 46	21 35	0 18	16 26	17 18	19 40	19 28	19 15		n.a.
M19	19 8	20 53	4 57	10 39	2 13	3 33	2 10	24 33	1 23	15 29	1 9	21 32	0 53	9 18	0 46	21 35	0 18	16 26	17 18	19 43	19 29	19 12		n.a.
T 20	19 23	24 21	4 34	11 7	2 7	4 1	2 10	24 28	1 22	15 28	1 10	21 33	0 53	9 18	0 46	21 35	0 18	16 26	17 17	19 46	19 30	19 10		n.a.
W21	19 38	26 22	3 54	11 37	2 0	4 29	2 10	24 23	1 22	15 27	1 10	21 34	0 52	9 17	0 46	21 34	0 18	16 26	17 17	19 48	19 30	19 7		n.a.
T 22	19 52	26 39	2 59	12 7	1 54	4 57	2 11	24 18	1 22	15 26	1 10	21 35	0 52	9 17	0 46	21 34	0 18	16 26	17 17	19 50	19 31	19 5		n.a.
F 23	20 6	25 5	1 51	12 38	1 46	5 25	2 11	24 12	1 21	15 25	1 11	21 36	0 52	9 16	0 46	21 34	0 18	16 26	17 16	19 51	19 32	19 2		n.a.
S 24	20 19	21 53	0 37	13 10	1 39	5 52	2 10	24 6	1 21	15 25	1 11	21 37	0 52	9 16	0 46	21 34	0 18	16 26	17 16	19 51	19 33	19 0		n.a.
S 25	20 32	17 22	0s40	13 42	1 32	6 20	2 10	24 0	1 20	15 24	1 11	21 38	0 52	9 15	0 46	21 33	0 18	16 26	17 16	19 51	19 33	18 57		n.a.
M26	20 45	11 55	1 53	14 14	1 24	6 47	2 10	23 54	1 20	15 23	1 11	21 39	0 52	9 15	0 46	21 33	0 18	16 26	17 15	19 51	19 34	18 55		n.a.
T 27	20 57	5 56	2 58	14 46	1 17	7 15	2 9	23 47	1 20	15 22	1 12	21 40	0 52	9 15	0 46	21 33	0 18	16 25	17 15	19 51	19 35	18 52		n.a.
W28	21 9	0s16	3 53	15 17	1 9	7 42	2 9	23 40	1 19	15 22	1 12	21 41	0 52	9 14	0 46	21 33	0 18	16 25	17 15	19 51	19 36	18 50		n.a.
T 29	21 20	6 21	4 33	15 49	1 1	8 9	2 8	23 33	1 19	15 21	1 12	21 42	0 52	9 14	0 46	21 32	0 18	16 25	17 14	19 52	19 36	18 47		n.a.
F 30	21s31	12s 4	4s57	16s21	0n54	8s36	2n 7	23s25	1s18	15n21	1n13	21s43	0n52	9n14	0n46	21s32	0s18	16s25	17s14	19s54	19s37	18s45		n.a.

Julian Day Number = 1673149.5, Delta T = 03h19m28s
Ecliptic obliquity = 23°42'46, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'28, Lahiri = - 5°46'28 Julian Calendar 1 Nov. 133 BCE == Greg. Calendar 29 Oct. 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 133 BCE
geocentric

DECEMBER 133 BCE (-132) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 27 21	6♐50'56	2♏12	18♏46	28♎24	21♑15	22♌25	12♐48	8♍25	25♑44	28°R18	2°R 3	3♒21	6♒ 9	n.a.	S 1
S 2	4 31 17	7°52'13	15°18	20°11	29°37	22° 1	22°27	12°55	8°26	25°46	28♓17	1♒53	3°17	6°15	n.a.	S 2
M 3	4 35 14	8°53'30	28°10	21°38	0♏50	22°48	22°29	13° 2	8°27	25°47	28°17	1°43	3°14	6°22	n.a.	M 3
T 4	4 39 11	9°54'47	10♐50	23° 5	2° 3	23°34	22°30	13° 9	8°27	25°49	28°17	1°33	3°11	6°29	n.a.	T 4
W 5	4 43 7	10°56'03	23°16	24°33	3°16	24°21	22°31	13°17	8°28	25°51	28°17	1°25	3° 8	6°35	n.a.	W 5
T 6	4 47 4	11°57'20	5♑29	26° 1	4°29	25° 8	22°32	13°24	8°29	25°52	28°16	1°19	3° 5	6°42	n.a.	T 6
F 7	4 51 0	12°58'36	17°31	27°30	5°42	25°54	22°33	13°31	8°29	25°54	28°16	1°16	3° 1	6°49	n.a.	F 7
S 8	4 54 57	13°59'52	29°23	28°59	6°55	26°41	22°34	13°38	8°30	25°56	28°16	1°D15	2°58	6°55	n.a.	S 8
S 9	4 58 53	15° 1'07	11♒11	0♐29	8° 9	27°27	22°34	13°45	8°30	25°58	28°16	1°15	2°55	7° 2	n.a.	S 9
M10	5 2 50	16° 2'22	22°57	1°59	9°22	28°14	22°34	13°52	8°31	26° 0	28°16	1°17	2°52	7° 9	n.a.	M10
T 11	5 6 46	17° 3'36	4♓48	3°30	10°35	29° 0	22°R34	13°59	8°31	26° 1	28°16	1°18	2°49	7°15	n.a.	T 11
W12	5 10 43	18° 4'50	16°47	5° 1	11°48	29°47	22°34	14° 6	8°31	26° 3	28°16	1°R19	2°46	7°22	n.a.	W12
T 13	5 14 40	19° 6'02	29° 0	6°33	13° 2	0♒34	22°34	14°13	8°31	26° 5	28°15	1°18	2°42	7°29	n.a.	T 13
F 14	5 18 36	20° 7'14	11♈33	8° 5	14°15	1°20	22°33	14°20	8°32	26° 7	28°15	1°16	2°39	7°35	n.a.	F 14
S 15	5 22 33	21° 8'25	24°29	9°38	15°29	2° 6	22°33	14°27	8°32	26° 9	28°D15	1°12	2°36	7°42	n.a.	S 15
S 16	5 26 29	22° 9'35	7♉52	11°11	16°42	2°53	22°32	14°34	8°R32	26°11	28°15	1° 6	2°33	7°49	n.a.	S 16
M17	5 30 26	23°10'45	21°41	12°44	17°56	3°39	22°31	14°41	8°32	26°13	28°15	1° 0	2°30	7°55	n.a.	M17
T 18	5 34 22	24°11'54	5♊56	14°19	19° 9	4°26	22°29	14°48	8°32	26°15	28°16	0°54	2°27	8° 2	n.a.	T 18
W19	5 38 19	25°13'02	20°31	15°53	20°23	5°12	22°28	14°55	8°32	26°17	28°16	0°49	2°23	8° 8	n.a.	W19
T 20	5 42 16	26°14'09	5♋19	17°28	21°36	5°59	22°26	15° 2	8°31	26°19	28°16	0°45	2°20	8°15	n.a.	T 20
F 21	5 46 12	27°15'16	20°14	19° 4	22°50	6°45	22°24	15° 9	8°31	26°21	28°16	0°43	2°17	8°22	n.a.	F 21
S 22	5 50 9	28°16'21	5♌ 6	20°40	24° 4	7°31	22°22	15°16	8°31	26°23	28°16	0°D42	2°14	8°28	n.a.	S 22
S 23	5 54 5	29°17'27	19°49	22°17	25°17	8°18	22°20	15°23	8°31	26°25	28°16	0°43	2°11	8°35	n.a.	S 23
M24	5 58 2	0♑18'31	4♍18	23°55	26°31	9° 4	22°18	15°30	8°30	26°27	28°16	0°45	2° 7	8°42	n.a.	M24
T 25	6 1 58	1°19'35	18°29	25°33	27°45	9°50	22°15	15°37	8°30	26°29	28°16	0°46	2° 4	8°48	n.a.	T 25
W26	6 5 55	2°20'38	2♎21	27°11	28°59	10°36	22°12	15°44	8°29	26°31	28°17	0°R47	2° 1	8°55	n.a.	W26
T 27	6 9 51	3°21'41	15°54	28°51	0♐12	11°23	22° 9	15°51	8°29	26°34	28°17	0°46	1°58	9° 2	n.a.	T 27
F 28	6 13 48	4°22'42	29°10	0♑31	1°26	12° 9	22° 6	15°57	8°28	26°36	28°17	0°44	1°55	9° 8	n.a.	F 28
S 29	6 17 45	5°23'44	12♏10	2°11	2°40	12°55	22° 3	16° 4	8°27	26°38	28°18	0°41	1°52	9°15	n.a.	S 29
S 30	6 21 41	6°24'44	24°55	3°52	3°54	13°41	21°59	16°11	8°27	26°40	28°18	0°37	1°48	9°22	n.a.	S 30
M31	6 25 38	7♑25'43	7♐27	5♑34	5♐ 8	14♒27	21♌55	16♐18	8♍26	26♑42	28♓18	0♒33	1♒45	9♒28	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s42	17s 8	5s 5	16s52	0n46	9s 3	2n 7	23s18	1s18	15n21	1n13	21s44	0n52	9n13	0n46	21s32	0s18	16s25	17s14	19s56	19s38	18s42		n.a.
S 2	21 52	21 20	4 57	17 23	0 39	9 30	2 6	23 10	1 17	15 20	1 13	21 45	0 52	9 13	0 46	21 31	0 18	16 25	17 13	19 58	19 39	18 40		n.a.
M 3	22 2	24 25	4 34	17 53	0 31	9 57	2 5	23 1	1 17	15 20	1 14	21 46	0 51	9 13	0 46	21 31	0 18	16 24	17 13	20 0	19 39	18 37		n.a.
T 4	22 11	26 14	3 57	18 23	0 24	10 23	2 4	22 53	1 16	15 20	1 14	21 47	0 51	9 13	0 46	21 31	0 18	16 24	17 13	20 2	19 40	18 35		n.a.
W 5	22 20	26 42	3 10	18 52	0 16	10 49	2 3	22 44	1 16	15 20	1 14	21 48	0 51	9 12	0 47	21 30	0 18	16 24	17 12	20 4	19 41	18 32		n.a.
T 6	22 29	25 50	2 15	19 20	0 9	11 15	2 1	22 35	1 15	15 20	1 14	21 49	0 51	9 12	0 47	21 30	0 18	16 24	17 12	20 6	19 42	18 30		n.a.
F 7	22 37	23 46	1 14	19 48	0 1	11 41	2 0	22 26	1 15	15 20	1 15	21 50	0 51	9 12	0 47	21 30	0 18	16 23	17 11	20 6	19 42	18 27		n.a.
S 8	22 44	20 41	0 10	20 15	0s 6	12 7	1 59	22 17	1 14	15 20	1 15	21 51	0 51	9 12	0 47	21 29	0 18	16 23	17 11	20 7	19 43	18 25		n.a.
S 9	22 52	16 46	0n54	20 41	0 13	12 32	1 57	22 7	1 14	15 20	1 15	21 52	0 51	9 12	0 47	21 29	0 18	16 23	17 11	20 6	19 44	18 22		n.a.
M10	22 58	12 13	1 55	21 7	0 20	12 57	1 56	21 57	1 13	15 20	1 16	21 53	0 51	9 12	0 47	21 29	0 18	16 23	17 10	20 6	19 44	18 19		n.a.
T 11	23 4	7 12	2 52	21 31	0 26	13 22	1 54	21 47	1 13	15 20	1 16	21 54	0 51	9 11	0 47	21 28	0 18	16 22	17 10	20 6	19 45	18 17		n.a.
W12	23 10	1 52	3 42	21 55	0 33	13 46	1 52	21 36	1 12	15 21	1 16	21 55	0 51	9 11	0 47	21 28	0 18	16 22	17 10	20 6	19 46	18 14		n.a.
T 13	23 16	3n37	4 23	22 18	0 39	14 10	1 51	21 26	1 12	15 21	1 17	21 56	0 51	9 11	0 47	21 28	0 18	16 22	17 9	20 6	19 47	18 12		n.a.
F 14	23 20	9 6	4 53	22 40	0 46	14 34	1 49	21 15	1 11	15 22	1 17	21 56	0 51	9 11	0 47	21 27	0 18	16 21	17 9	20 6	19 47	18 9		n.a.
S 15	23 25	14 22	5 9	23 0	0 52	14 57	1 47	21 4	1 11	15 22	1 17	21 57	0 51	9 11	0 47	21 27	0 18	16 21	17 9	20 7	19 48	18 7		n.a.
S 16	23 29	19 9	5 9	23 20	0 58	15 21	1 45	20 53	1 10	15 23	1 17	21 58	0 51	9 11	0 47	21 27	0 18	16 21	17 8	20 8	19 49	18 4		n.a.
M17	23 32	23 4	4 51	23 38	1 4	15 43	1 43	20 41	1 10	15 23	1 18	21 59	0 51	9 11	0 47	21 26	0 18	16 20	17 8	20 10	19 50	18 2		n.a.
T 18	23 35	25 43	4 15	23 55	1 9	16 6	1 41	20 29	1 9	15 24	1 18	22 0	0 50	9 11	0 47	21 26	0 18	16 20	17 7	20 11	19 50	17 59		n.a.
W19	23 37	26 43	3 22	24 11	1 15	16 28	1 39	20 18	1 9	15 25	1 18	22 1	0 50	9 12	0 47	21 25	0 18	16 20	17 7	20 12	19 51	17 56		n.a.
T 20	23 39	25 50	2 14	24 26	1 20	16 49	1 37	20 6	1 8	15 26	1 19	22 2	0 50	9 12	0 47	21 25	0 18	16 19	17 7	20 13	19 52	17 54		n.a.
F 21	23 41	23 6	0 57	24 40	1 25	17 10	1 34	19 53	1 8	15 27	1 19	22 2	0 50	9 12	0 47	21 25	0 18	16 19	17 6	20 14	19 53	17 51		n.a.
S 22	23 42	18 49	0s24	24 52	1 29	17 31	1 32	19 41	1 7	15 28	1 19	22 3	0 50	9 12	0 47	21 24	0 18	16 19	17 6	20 14	19 53	17 49		n.a.
S 23	23 43	13 25	1 43	25 3	1 34	17 51	1 30	19 28	1 6	15 29	1 19	22 4	0 50	9 12	0 47	21 24	0 18	16 18	17 6	20 13	19 54	17 46		n.a.
M24	23 43	7 21	2 54	25 12	1 38	18 11	1 27	19 15	1 6	15 30	1 20	22 5	0 50	9 12	0 47	21 24	0 18	16 18	17 5	20 13	19 55	17 43		n.a.
T 25	23 42	1 3	3 53	25 20	1 42	18 30	1 25	19 2	1 5	15 31	1 20	22 6	0 50	9 13	0 47	21 23	0 18	16 17	17 5	20 13	19 55	17 41		n.a.
W26	23 41	5s10	4 36	25 26	1 45	18 49	1 23	18 49	1 5	15 32	1 20	22 6	0 50	9 13	0 47	21 23	0 18	16 17	17 4	20 13	19 56	17 38		n.a.
T 27	23 40	10 59	5 4	25 31	1 48	19 7	1 20	18 35	1 4	15 33	1 21	22 7	0 50	9 13	0 47	21 22	0 18	16 17	17 4	20 13	19 57	17 36		n.a.
F 28	23 38	16 11	5 14	25 34	1 51	19 25	1 18	18 22	1 4	15 35	1 21	22 8	0 50	9 13	0 48	21 22	0 18	16 16	17 4	20 13	19 58	17 33		n.a.
S 29	23 36	20 32	5 8	25 36	1 54	19 42	1 15	18 8	1 3	15 36	1 21	22 9	0 50	9 14	0 48	21 22	0 18	16 16	17 3	20 14	19 58	17 30		n.a.
S 30	23 33	23 50	4 47	25 35	1 56	19 59	1 12	17 54	1 2	15 37	1 21	22 10	0 50	9 14	0 48	21 21	0 18	16 15	17 3	20 15	19 59	17 28		n.a.
M31	23s30	25s56	4s12	25s34	1s58	20s15	1n10	17s40	1s 2	15n39	1n22	22s10	0n50	9n14	0n48	21s21	0s18	16s15	17s 3	20s16	20s 0	17s25		n.a.

Julian Day Number = 1673179.5, Delta T = 03h19m27s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'24, Lahiri = - 5°46'23 Julian Calendar 1 Dec. 133 BCE == Greg. Calendar 28 Nov. 133 BCE

The year -132 astronomical counting style corresponds to year 133 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

JANUARY 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 29 34	8♑26'42	19♐48	7♑17	6♐22	15♒13	21°R51	16♐25	8°R25	26♑44	28♓19	0°R29	1♒42	9♒35	n.a.	T 1
W 2	6 33 31	9°27'39	1♑58	9° 0	7°36	16° 0	21♌47	16°31	8♍24	26°47	28°19	0♒26	1°39	9°42	n.a.	W 2
T 3	6 37 27	10°28'35	14° 0	10°44	8°50	16°46	21°43	16°38	8°23	26°49	28°19	0°24	1°36	9°48	n.a.	T 3
F 4	6 41 24	11°29'30	25°55	12°29	10° 4	17°32	21°39	16°45	8°22	26°51	28°20	0°D23	1°33	9°55	n.a.	F 4
S 5	6 45 21	12°30'23	7♒44	14°14	11°18	18°18	21°34	16°51	8°21	26°53	28°20	0°23	1°29	10° 1	n.a.	S 5
S 6	6 49 17	13°31'15	19°31	16° 1	12°31	19° 4	21°29	16°58	8°20	26°55	28°21	0°24	1°26	10° 8	n.a.	S 6
M 7	6 53 14	14°32'06	1♓18	17°47	13°45	19°50	21°24	17° 4	8°19	26°58	28°21	0°26	1°23	10°15	n.a.	M 7
T 8	6 57 10	15°32'54	13° 9	19°35	14°59	20°35	21°19	17°11	8°18	27° 0	28°22	0°27	1°20	10°21	n.a.	T 8
W 9	7 1 7	16°33'41	25° 9	21°22	16°13	21°21	21°14	17°17	8°16	27° 2	28°22	0°29	1°17	10°28	n.a.	W 9
T 10	7 5 3	17°34'27	7♈20	23°11	17°27	22° 7	21° 9	17°24	8°15	27° 4	28°23	0°29	1°13	10°35	n.a.	T 10
F 11	7 9 0	18°35'11	19°49	25° 0	18°41	22°53	21° 3	17°30	8°14	27° 7	28°23	0°R30	1°10	10°41	n.a.	F 11
S 12	7 12 56	19°35'53	2♉39	26°49	19°55	23°39	20°58	17°37	8°12	27° 9	28°24	0°29	1° 7	10°48	n.a.	S 12
S 13	7 16 53	20°36'33	15°54	28°38	21° 9	24°24	20°52	17°43	8°11	27°11	28°25	0°28	1° 4	10°55	n.a.	S 13
M14	7 20 50	21°37'11	29°36	0♒28	22°23	25°10	20°46	17°49	8°10	27°13	28°25	0°27	1° 1	11° 1	n.a.	M14
T 15	7 24 46	22°37'48	13♊46	2°18	23°37	25°56	20°40	17°55	8° 8	27°16	28°26	0°26	0°58	11° 8	n.a.	T 15
W16	7 28 43	23°38'23	28°21	4° 7	24°51	26°41	20°34	18° 2	8° 6	27°18	28°26	0°26	0°54	11°15	n.a.	W16
T 17	7 32 39	24°38'56	13♋17	5°56	26° 5	27°27	20°27	18° 8	8° 5	27°20	28°27	0°25	0°51	11°21	n.a.	T 17
F 18	7 36 36	25°39'28	28°25	7°44	27°19	28°12	20°21	18°14	8° 3	27°22	28°28	0°D25	0°48	11°28	n.a.	F 18
S 19	7 40 32	26°39'57	13♌36	9°31	28°33	28°58	20°14	18°20	8° 2	27°25	28°29	0°25	0°45	11°35	n.a.	S 19
S 20	7 44 29	27°40'25	28°41	11°17	29°47	29°43	20° 8	18°26	8° 0	27°27	28°29	0°25	0°42	11°41	n.a.	S 20
M21	7 48 25	28°40'52	13♍32	13° 1	1♑ 2	0♓29	20° 1	18°32	7°58	27°29	28°30	0°25	0°39	11°48	n.a.	M21
T 22	7 52 22	29°41'17	28° 2	14°42	2°16	1°14	19°54	18°38	7°56	27°32	28°31	0°25	0°35	11°55	n.a.	T 22
W23	7 56 19	0♒41'40	12♎ 8	16°21	3°30	2° 0	19°47	18°44	7°54	27°34	28°32	0°R25	0°32	12° 1	n.a.	W23
T 24	8 0 15	1°42'02	25°48	17°57	4°44	2°45	19°40	18°50	7°52	27°36	28°33	0°D25	0°29	12° 8	n.a.	T 24
F 25	8 4 12	2°42'22	9♏ 4	19°29	5°58	3°30	19°33	18°55	7°51	27°38	28°33	0°25	0°26	12°14	n.a.	F 25
S 26	8 8 8	3°42'41	21°58	20°57	7°12	4°15	19°26	19° 1	7°49	27°41	28°34	0°26	0°23	12°21	n.a.	S 26
S 27	8 12 5	4°42'59	4♐33	22°19	8°26	5° 0	19°18	19° 7	7°47	27°43	28°35	0°26	0°19	12°28	n.a.	S 27
M28	8 16 1	5°43'14	16°52	23°36	9°40	5°46	19°11	19°12	7°45	27°45	28°36	0°26	0°16	12°34	n.a.	M28
T 29	8 19 58	6°43'28	28°59	24°47	10°54	6°31	19° 4	19°18	7°42	27°47	28°37	0°27	0°13	12°41	n.a.	T 29
W30	8 23 54	7°43'41	10♑58	25°51	12° 8	7°16	18°56	19°23	7°40	27°50	28°38	0°28	0°10	12°48	n.a.	W30
T 31	8 27 51	8♒43'51	22♑50	26♒47	13♑22	8♓ 1	18♌48	19♐29	7♍38	27♑52	28♓39	0♒28	0♒ 7	12♒54	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23 s26	26 s44	3 s26	25 s30	2 s 0	20 s31	1n 7	17 s26	1 s 1	15n40	1n22	22 s11	0n50	9n15	0n48	21 s20	0 s18	16 s14	17 s 2	20 s17	20 s 0	17 s22			n.a.
W 2	23 22	26 12	2 31	25 25	2 1	20 46	1 4	17 11	1 1	15 42	1 22	22 12	0 50	9 15	0 48	21 20	0 18	16 14	17 2	20 17	20 1	17 20			n.a.
T 3	23 18	24 27	1 29	25 17	2 2	21 1	1 2	16 57	1 0	15 44	1 23	22 12	0 50	9 15	0 48	21 19	0 18	16 13	17 2	20 18	20 2	17 17			n.a.
F 4	23 13	21 37	0 25	25 8	2 2	21 15	0 59	16 42	0 59	15 45	1 23	22 13	0 50	9 16	0 48	21 19	0 18	16 13	17 1	20 18	20 3	17 15			n.a.
S 5	23 7	17 53	0n41	24 57	2 2	21 28	0 56	16 27	0 59	15 47	1 23	22 14	0 50	9 16	0 48	21 19	0 18	16 12	17 1	20 18	20 3	17 12			n.a.
S 6	23 1	13 29	1 44	24 45	2 1	21 41	0 53	16 12	0 58	15 49	1 23	22 15	0 50	9 17	0 48	21 18	0 18	16 12	17 0	20 18	20 4	17 9			n.a.
M 7	22 55	8 36	2 43	24 30	2 0	21 53	0 50	15 57	0 58	15 51	1 24	22 15	0 50	9 17	0 48	21 18	0 18	16 11	17 0	20 17	20 5	17 7			n.a.
T 8	22 48	3 23	3 36	24 13	1 58	22 4	0 48	15 41	0 57	15 53	1 24	22 16	0 50	9 18	0 48	21 17	0 18	16 11	17 0	20 17	20 5	17 4			n.a.
W 9	22 40	2n 0	4 19	23 54	1 56	22 15	0 45	15 26	0 56	15 55	1 24	22 17	0 50	9 18	0 48	21 17	0 18	16 10	16 59	20 17	20 6	17 1			n.a.
T 10	22 33	7 24	4 52	23 34	1 53	22 25	0 42	15 10	0 56	15 57	1 24	22 17	0 49	9 19	0 48	21 16	0 18	16 10	16 59	20 17	20 7	16 59			n.a.
F 11	22 24	12 38	5 12	23 11	1 50	22 35	0 39	14 55	0 55	15 59	1 25	22 18	0 49	9 19	0 48	21 16	0 18	16 9	16 59	20 16	20 8	16 56			n.a.
S 12	22 16	17 29	5 17	22 46	1 46	22 43	0 36	14 39	0 55	16 1	1 25	22 18	0 49	9 20	0 48	21 16	0 18	16 9	16 58	20 17	20 8	16 53			n.a.
S 13	22 7	21 39	5 6	22 20	1 42	22 52	0 33	14 23	0 54	16 3	1 25	22 19	0 49	9 20	0 48	21 15	0 18	16 8	16 58	20 17	20 9	16 51			n.a.
M14	21 57	24 48	4 38	21 51	1 37	22 59	0 30	14 7	0 53	16 5	1 25	22 20	0 49	9 21	0 48	21 15	0 18	16 7	16 58	20 17	20 10	16 48			n.a.
T 15	21 47	26 32	3 51	21 21	1 31	23 6	0 28	13 51	0 53	16 7	1 26	22 20	0 49	9 21	0 48	21 14	0 18	16 7	16 57	20 17	20 10	16 45			n.a.
W16	21 37	26 31	2 49	20 49	1 24	23 12	0 25	13 34	0 52	16 9	1 26	22 21	0 49	9 22	0 48	21 14	0 18	16 6	16 57	20 17	20 11	16 43			n.a.
T 17	21 26	24 36	1 34	20 15	1 17	23 17	0 22	13 18	0 51	16 11	1 26	22 21	0 49	9 23	0 48	21 13	0 18	16 6	16 57	20 17	20 12	16 40			n.a.
F 18	21 15	20 54	0 11	19 39	1 9	23 22	0 19	13 1	0 51	16 14	1 26	22 22	0 49	9 23	0 48	21 13	0 18	16 5	16 56	20 18	20 12	16 37			n.a.
S 19	21 4	15 46	1 s13	19 2	1 0	23 26	0 16	12 45	0 50	16 16	1 26	22 23	0 49	9 24	0 48	21 13	0 18	16 5	16 56	20 18	20 13	16 35			n.a.
S 20	20 52	9 42	2 31	18 24	0 51	23 30	0 13	12 28	0 49	16 18	1 27	22 23	0 49	9 25	0 48	21 12	0 18	16 4	16 56	20 17	20 14	16 32			n.a.
M21	20 40	3 12	3 38	17 45	0 40	23 32	0 10	12 11	0 49	16 21	1 27	22 24	0 49	9 25	0 48	21 12	0 18	16 3	16 55	20 17	20 15	16 29			n.a.
T 22	20 27	3 s19	4 29	17 5	0 30	23 34	0 7	11 54	0 48	16 23	1 27	22 24	0 49	9 26	0 48	21 11	0 18	16 3	16 55	20 17	20 15	16 27			n.a.
W23	20 14	9 28	5 2	16 24	0 18	23 35	0 5	11 37	0 47	16 26	1 27	22 25	0 49	9 27	0 48	21 11	0 18	16 2	16 55	20 17	20 16	16 24			n.a.
T 24	20 0	14 59	5 17	15 43	0 6	23 36	0 2	11 20	0 47	16 28	1 27	22 25	0 49	9 28	0 48	21 10	0 18	16 2	16 55	20 17	20 17	16 21			n.a.
F 25	19 47	19 38	5 14	15 2	0n 7	23 36	0 s 1	11 3	0 46	16 30	1 27	22 26	0 49	9 28	0 49	21 10	0 18	16 1	16 54	20 17	20 17	16 18			n.a.
S 26	19 33	23 13	4 56	14 21	0 21	23 35	0 4	10 46	0 46	16 33	1 28	22 26	0 49	9 29	0 49	21 9	0 18	16 0	16 54	20 17	20 18	16 16			n.a.
S 27	19 18	25 36	4 24	13 41	0 35	23 33	0 6	10 29	0 45	16 35	1 28	22 27	0 49	9 30	0 49	21 9	0 18	16 0	16 54	20 17	20 19	16 13			n.a.
M28	19 3	26 42	3 40	13 2	0 50	23 31	0 9	10 11	0 44	16 38	1 28	22 27	0 49	9 31	0 49	21 9	0 18	15 59	16 53	20 17	20 19	16 10			n.a.
T 29	18 48	26 29	2 46	12 24	1 4	23 27	0 12	9 54	0 44	16 40	1 28	22 28	0 49	9 31	0 49	21 8	0 18	15 58	16 53	20 17	20 20	16 8			n.a.
W30	18 33	25 1	1 46	11 48	1 20	23 24	0 15	9 36	0 43	16 43	1 28	22 28	0 49	9 32	0 49	21 8	0 18	15 58	16 53	20 17	20 21	16 5			n.a.
T 31	18 s17	22 s27	0 s42	11 s15	1n35	23 s19	0 s17	9 s19	0 s42	16n45	1n28	22 s29	0n49	9n33	0n49	21 s 7	0 s18	15 s57	16 s52	20 s17	20 s21	16 s 2			n.a.

Julian Day Number = 1673210.5, Delta T = 03h19m26s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'20, Lahiri = - 5°46'19 Julian Calendar 1 Jan. 132 BCE == Greg. Calendar 29 Dec. 133 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

FEBRUARY 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 31 48	9♒44'00	4♒39	27♒35	14♉36	8♓46	18°R41	19♐34	7°R36	27♉54	28♓40	0°R28	0♒ 4	13♒ 1	n.a.	F 1
S 2	8 35 44	10°44'06	16°26	28°15	15°50	9°31	18♌33	19°39	7♍34	27°56	28°41	0♒28	0° 0	13° 8	n.a.	S 2
S 3	8 39 41	11°44'11	28°14	28°47	17° 4	10°16	18°25	19°45	7°32	27°59	28°42	0°27	29♉57	13°14	n.a.	S 3
M 4	8 43 37	12°44'13	10♓ 5	29° 9	18°18	11° 0	18°18	19°50	7°29	28° 1	28°43	0°25	29°54	13°21	n.a.	M 4
T 5	8 47 34	13°44'14	22° 1	29°22	19°32	11°45	18°10	19°55	7°27	28° 3	28°44	0°23	29°51	13°28	n.a.	T 5
W 6	8 51 30	14°44'12	4♈ 6	29°R26	20°46	12°30	18° 2	20° 0	7°25	28° 5	28°45	0°21	29°48	13°34	n.a.	W 6
T 7	8 55 27	15°44'08	16°21	29°21	22° 1	13°15	17°54	20° 5	7°23	28° 8	28°46	0°19	29°45	13°41	n.a.	T 7
F 8	8 59 23	16°44'01	28°50	29° 7	23°15	13°59	17°47	20°10	7°20	28°10	28°47	0°18	29°41	13°48	n.a.	F 8
S 9	9 3 20	17°43'53	11♉37	28°45	24°29	14°44	17°39	20°15	7°18	28°12	28°48	0°17	29°38	13°54	n.a.	S 9
S 10	9 7 16	18°43'42	24°44	28°15	25°43	15°29	17°31	20°20	7°15	28°14	28°49	0°D17	29°35	14° 1	n.a.	S 10
M11	9 11 13	19°43'28	8♊16	27°38	26°57	16°13	17°23	20°24	7°13	28°16	28°50	0°17	29°32	14° 8	n.a.	M11
T 12	9 15 10	20°43'13	22°12	26°56	28°11	16°58	17°15	20°29	7°11	28°18	28°51	0°19	29°29	14°14	n.a.	T 12
W13	9 19 6	21°42'55	6♋34	26° 8	29°25	17°42	17° 7	20°33	7° 8	28°20	28°53	0°20	29°25	14°21	n.a.	W13
T 14	9 23 3	22°42'34	21°20	25°16	0♒39	18°26	17° 0	20°38	7° 6	28°23	28°54	0°21	29°22	14°27	n.a.	T 14
F 15	9 26 59	23°42'12	6♌22	24°21	1°53	19°11	16°52	20°42	7° 3	28°25	28°55	0°R21	29°19	14°34	n.a.	F 15
S 16	9 30 56	24°41'47	21°35	23°25	3° 7	19°55	16°44	20°47	7° 1	28°27	28°56	0°20	29°16	14°41	n.a.	S 16
S 17	9 34 52	25°41'20	6♍48	22°29	4°21	20°39	16°37	20°51	6°58	28°29	28°57	0°18	29°13	14°47	n.a.	S 17
M18	9 38 49	26°40'50	21°52	21°34	5°35	21°23	16°29	20°55	6°56	28°31	28°58	0°14	29°10	14°54	n.a.	M18
T 19	9 42 45	27°40'19	6♎37	20°41	6°49	22° 8	16°21	20°59	6°53	28°33	29° 0	0°11	29° 6	15° 1	n.a.	T 19
W20	9 46 42	28°39'46	20°57	19°50	8° 3	22°52	16°14	21° 3	6°50	28°35	29° 1	0° 7	29° 3	15° 7	n.a.	W20
T 21	9 50 39	29°39'11	4♏49	19° 4	9°17	23°36	16° 6	21° 7	6°48	28°37	29° 2	0° 3	29° 0	15°14	n.a.	T 21
F 22	9 54 35	0♓38'34	18°12	18°22	10°31	24°20	15°59	21°11	6°45	28°39	29° 3	0° 1	28°57	15°21	n.a.	F 22
S 23	9 58 32	1°37'55	1♐ 9	17°46	11°45	25° 4	15°52	21°15	6°43	28°41	29° 5	0°D 1	28°54	15°27	n.a.	S 23
S 24	10 2 28	2°37'15	13°43	17°14	12°59	25°48	15°45	21°19	6°40	28°43	29° 6	0° 1	28°51	15°34	n.a.	S 24
M25	10 6 25	3°36'33	25°58	16°49	14°13	26°31	15°37	21°22	6°38	28°45	29° 7	0° 3	28°47	15°41	n.a.	M25
T 26	10 10 21	4°35'48	7♉59	16°29	15°27	27°15	15°30	21°26	6°35	28°47	29° 8	0° 4	28°44	15°47	n.a.	T 26
W27	10 14 18	5°35'02	19°52	16°15	16°40	27°59	15°23	21°29	6°32	28°49	29°10	0° 6	28°41	15°54	n.a.	W27
T 28	10 18 14	6♓34'14	1♒39	16♒ 7	17♒54	28♓43	15♌16	21♐33	6♍30	28♉51	29♓11	0°R 6	28♉38	16♒ 1	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s 1	18s57	0n23	10s44	1n50	23s14	0s20	9s 1	0s42	16n48	1n29	22s29	0n49	9n34	0n49	21s 7	0s18	15s57	16s52	20s17	20s22	15s59		n.a.
S 2	17 44	14 42	1 27	10 16	2 5	23 8	0 22	8 43	0 41	16 50	1 29	22 29	0 49	9 35	0 49	21 6	0 18	15 56	16 52	20 17	20 23	15 57		n.a.
S 3	17 28	9 55	2 28	9 51	2 19	23 1	0 25	8 26	0 40	16 53	1 29	22 30	0 49	9 36	0 49	21 6	0 18	15 55	16 52	20 17	20 23	15 54		n.a.
M 4	17 11	4 45	3 23	9 30	2 34	22 54	0 28	8 8	0 40	16 56	1 29	22 30	0 49	9 37	0 49	21 5	0 18	15 55	16 51	20 17	20 24	15 51		n.a.
T 5	16 53	0n36	4 8	9 13	2 47	22 46	0 30	7 50	0 39	16 58	1 29	22 31	0 49	9 37	0 49	21 5	0 18	15 54	16 51	20 18	20 25	15 49		n.a.
W 6	16 36	5 59	4 44	9 0	3 0	22 37	0 32	7 32	0 38	17 1	1 29	22 31	0 49	9 38	0 49	21 5	0 18	15 53	16 51	20 18	20 26	15 46		n.a.
T 7	16 18	11 13	5 7	8 51	3 11	22 28	0 35	7 14	0 38	17 3	1 29	22 31	0 49	9 39	0 49	21 4	0 18	15 53	16 51	20 19	20 26	15 43		n.a.
F 8	16 0	16 6	5 16	8 46	3 21	22 18	0 37	6 56	0 37	17 6	1 29	22 32	0 49	9 40	0 49	21 4	0 18	15 52	16 50	20 19	20 27	15 40		n.a.
S 9	15 42	20 24	5 10	8 46	3 30	22 7	0 40	6 38	0 36	17 8	1 29	22 32	0 49	9 41	0 49	21 3	0 18	15 51	16 50	20 19	20 28	15 38		n.a.
S 10	15 23	23 49	4 48	8 49	3 37	21 56	0 42	6 20	0 36	17 11	1 29	22 33	0 49	9 42	0 49	21 3	0 18	15 51	16 50	20 19	20 28	15 35		n.a.
M11	15 4	26 2	4 10	8 57	3 42	21 44	0 44	6 2	0 35	17 13	1 29	22 33	0 49	9 43	0 49	21 2	0 18	15 50	16 50	20 19	20 29	15 32		n.a.
T 12	14 45	26 44	3 15	9 8	3 46	21 31	0 46	5 44	0 34	17 16	1 30	22 33	0 49	9 44	0 49	21 2	0 18	15 49	16 49	20 19	20 30	15 29		n.a.
W13	14 26	25 40	2 8	9 23	3 47	21 18	0 49	5 26	0 34	17 18	1 30	22 34	0 49	9 45	0 49	21 2	0 18	15 49	16 49	20 19	20 30	15 27		n.a.
T 14	14 6	22 49	0 50	9 41	3 47	21 4	0 51	5 8	0 33	17 20	1 30	22 34	0 49	9 46	0 49	21 1	0 18	15 48	16 49	20 18	20 31	15 24		n.a.
F 15	13 46	18 21	0s33	10 2	3 45	20 49	0 53	4 49	0 32	17 23	1 30	22 34	0 49	9 47	0 49	21 1	0 18	15 47	16 49	20 18	20 32	15 21		n.a.
S 16	13 26	12 40	1 54	10 24	3 40	20 34	0 55	4 31	0 32	17 25	1 30	22 34	0 49	9 48	0 49	21 0	0 18	15 47	16 49	20 19	20 32	15 18		n.a.
S 17	13 6	6 13	3 7	10 48	3 34	20 19	0 57	4 13	0 31	17 28	1 30	22 35	0 49	9 48	0 49	21 0	0 18	15 46	16 48	20 19	20 33	15 16		n.a.
M18	12 46	0s30	4 7	11 14	3 26	20 2	0 59	3 55	0 30	17 30	1 30	22 35	0 49	9 49	0 49	21 0	0 18	15 45	16 48	20 20	20 34	15 13		n.a.
T 19	12 25	7 3	4 48	11 40	3 16	19 45	1 0	3 37	0 30	17 32	1 30	22 35	0 49	9 50	0 49	20 59	0 18	15 45	16 48	20 21	20 34	15 10		n.a.
W20	12 4	13 2	5 10	12 6	3 6	19 28	1 2	3 18	0 29	17 35	1 30	22 36	0 49	9 51	0 49	20 59	0 18	15 44	16 48	20 21	20 35	15 7		n.a.
T 21	11 43	18 10	5 13	12 32	2 54	19 10	1 4	3 0	0 28	17 37	1 30	22 36	0 49	9 52	0 49	20 58	0 18	15 43	16 48	20 22	20 36	15 4		n.a.
F 22	11 22	22 13	4 58	12 57	2 41	18 51	1 6	2 42	0 28	17 39	1 30	22 36	0 49	9 53	0 49	20 58	0 18	15 43	16 47	20 23	20 36	15 2		n.a.
S 23	11 1	25 0	4 29	13 21	2 27	18 32	1 7	2 24	0 27	17 41	1 30	22 36	0 49	9 54	0 49	20 58	0 18	15 42	16 47	20 23	20 37	14 59		n.a.
S 24	10 39	26 28	3 47	13 44	2 13	18 13	1 9	2 6	0 26	17 44	1 30	22 37	0 49	9 55	0 49	20 57	0 18	15 41	16 47	20 23	20 38	14 56		n.a.
M25	10 18	26 35	2 56	14 6	1 58	17 53	1 10	1 47	0 26	17 46	1 30	22 37	0 49	9 56	0 49	20 57	0 18	15 41	16 47	20 22	20 38	14 53		n.a.
T 26	9 56	25 26	1 58	14 26	1 43	17 32	1 12	1 29	0 25	17 48	1 30	22 37	0 49	9 57	0 49	20 56	0 18	15 40	16 47	20 22	20 39	14 51		n.a.
W27	9 34	23 9	0 56	14 45	1 28	17 11	1 13	1 11	0 24	17 50	1 30	22 37	0 49	9 58	0 49	20 56	0 19	15 40	16 47	20 22	20 40	14 48		n.a.
T 28	9s12	19s53	0n 8	15s 1	1n13	16s49	1s15	0s53	0s24	17n52	1n30	22s38	0n49	9n59	0n49	20s56	0s19	15s39	16s46	20s22	20s40	14s45		n.a.

Julian Day Number = 1673241.5, Delta T = 03h19m25s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'15, Lahiri = - 5°46'15 Julian Calendar 1 Feb. 132 BCE == Greg. Calendar 29 Jan. 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

MARCH 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 22 11	7♓33'24	13♒25	16°D 5	19♒ 8	29♓26	15°R10	21♐36	6°R27	28♑53	29♓12	0°R 5	28♑35	16♒ 7	n.a.	F 1
S 2	10 26 8	8°32'31	25°13	16♒ 8	20°22	0♈10	15♌ 3	21°39	6♍25	28°55	29°14	0♒ 2	28°31	16°14	n.a.	S 2
S 3	10 30 4	9°31'37	7♓ 5	16°17	21°36	0°54	14°56	21°42	6°22	28°56	29°15	29♑58	28°28	16°21	n.a.	S 3
M 4	10 34 1	10°30'40	19° 4	16°31	22°50	1°37	14°50	21°45	6°19	28°58	29°16	29°51	28°25	16°27	n.a.	M 4
T 5	10 37 57	11°29'41	1♈10	16°50	24° 4	2°21	14°43	21°48	6°17	29° 0	29°18	29°44	28°22	16°34	n.a.	T 5
W 6	10 41 54	12°28'40	13°25	17°13	25°18	3° 4	14°37	21°51	6°14	29° 2	29°19	29°36	28°19	16°40	n.a.	W 6
T 7	10 45 50	13°27'37	25°51	17°41	26°32	3°48	14°31	21°54	6°12	29° 4	29°20	29°28	28°16	16°47	n.a.	T 7
F 8	10 49 47	14°26'32	8♉29	18°14	27°46	4°31	14°25	21°57	6° 9	29° 5	29°22	29°22	28°12	16°54	n.a.	F 8
S 9	10 53 43	15°25'24	21°21	18°51	29° 0	5°14	14°19	21°59	6° 7	29° 7	29°23	29°17	28° 9	17° 0	n.a.	S 9
S 10	10 57 40	16°24'14	4♊29	19°31	0♓14	5°57	14°14	22° 2	6° 4	29° 9	29°24	29°14	28° 6	17° 7	n.a.	S 10
M11	11 1 36	17°23'01	17°54	20°15	1°28	6°41	14° 8	22° 4	6° 2	29°10	29°26	29°D14	28° 3	17°14	n.a.	M11
T 12	11 5 33	18°21'47	1♋40	21° 3	2°42	7°24	14° 3	22° 6	5°59	29°12	29°27	29°14	28° 0	17°20	n.a.	T 12
W13	11 9 30	19°20'29	15°47	21°54	3°55	8° 7	13°57	22° 9	5°57	29°14	29°28	29°15	27°57	17°27	n.a.	W13
T 14	11 13 26	20°19'10	0♌14	22°48	5° 9	8°50	13°52	22°11	5°54	29°15	29°30	29°R16	27°53	17°34	n.a.	T 14
F 15	11 17 23	21°17'48	14°59	23°45	6°23	9°33	13°47	22°13	5°52	29°17	29°31	29°15	27°50	17°40	n.a.	F 15
S 16	11 21 19	22°16'24	29°56	24°46	7°37	10°16	13°42	22°15	5°49	29°18	29°33	29°12	27°47	17°47	n.a.	S 16
S 17	11 25 16	23°14'57	14♍59	25°48	8°51	10°59	13°38	22°17	5°47	29°20	29°34	29° 6	27°44	17°54	n.a.	S 17
M18	11 29 12	24°13'28	29°57	26°54	10° 5	11°42	13°33	22°18	5°44	29°21	29°35	28°59	27°41	18° 0	n.a.	M18
T 19	11 33 9	25°11'58	14♎43	28° 2	11°18	12°24	13°29	22°20	5°42	29°23	29°37	28°50	27°37	18° 7	n.a.	T 19
W20	11 37 5	26°10'25	29° 7	29°12	12°32	13° 7	13°25	22°22	5°39	29°24	29°38	28°41	27°34	18°14	n.a.	W20
T 21	11 41 2	27° 8'51	13♏ 5	0♓25	13°46	13°50	13°21	22°23	5°37	29°26	29°40	28°33	27°31	18°20	n.a.	T 21
F 22	11 44 59	28° 7'15	26°35	1°40	15° 0	14°32	13°17	22°24	5°35	29°27	29°41	28°27	27°28	18°27	n.a.	F 22
S 23	11 48 55	29° 5'38	9♐37	2°57	16°14	15°15	13°13	22°26	5°32	29°29	29°42	28°23	27°25	18°34	n.a.	S 23
S 24	11 52 52	0♈ 3'59	22°14	4°17	17°28	15°58	13° 9	22°27	5°30	29°30	29°44	28°21	27°22	18°40	n.a.	S 24
M25	11 56 48	1° 2'18	4♑31	5°38	18°41	16°40	13° 6	22°28	5°28	29°31	29°45	28°D21	27°18	18°47	n.a.	M25
T 26	12 0 45	2° 0'35	16°32	7° 2	19°55	17°23	13° 3	22°29	5°26	29°33	29°47	28°22	27°15	18°54	n.a.	T 26
W27	12 4 41	2°58'51	28°24	8°27	21° 9	18° 5	13° 0	22°30	5°23	29°34	29°48	28°R22	27°12	19° 0	n.a.	W27
T 28	12 8 38	3°57'05	10♒11	9°55	22°23	18°47	12°57	22°31	5°21	29°35	29°49	28°21	27° 9	19° 7	n.a.	T 28
F 29	12 12 34	4°55'18	21°58	11°24	23°37	19°30	12°54	22°31	5°19	29°36	29°51	28°19	27° 6	19°14	n.a.	F 29
S 30	12 16 31	5°53'28	3♓49	12°55	24°50	20°12	12°52	22°32	5°17	29°37	29°52	28°13	27° 2	19°20	n.a.	S 30
S 31	12 20 28	6♈51'37	15♓47	14♓29	26♓ 4	20♈54	12♌50	22♐33	5♍15	29♑39	29♓53	28♑ 5	26♑59	19♒27	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8s50	15s50	1n12	15s16	0n58	16s27	1s16	0s35	0s23	17n54	1n30	22s38	0n49	10n 0	0n49	20s55	0s19	15s38	16s46	20s22	20s41	14s42		n.a.
S 2	8 28	11 11	2 13	15 29	0 44	16 5	1 17	0 16	0 22	17 56	1 30	22 38	0 49	10 1	0 49	20 55	0 19	15 38	16 46	20 22	20 41	14 39		n.a.
S 3	8 5	6 6	3 8	15 40	0 30	15 42	1 18	0n 2	0 22	17 58	1 30	22 38	0 49	10 2	0 49	20 55	0 19	15 37	16 46	20 23	20 42	14 37		n.a.
M 4	7 43	0 47	3 55	15 49	0 16	15 19	1 19	0 20	0 21	18 0	1 29	22 38	0 49	10 3	0 49	20 54	0 19	15 36	16 46	20 25	20 43	14 34		n.a.
T 5	7 20	4n37	4 32	15 56	0 2	14 55	1 20	0 38	0 20	18 1	1 29	22 39	0 49	10 4	0 49	20 54	0 19	15 36	16 46	20 26	20 43	14 31		n.a.
W 6	6 57	9 54	4 57	16 1	0s11	14 31	1 21	0 56	0 20	18 3	1 29	22 39	0 49	10 5	0 49	20 53	0 19	15 35	16 46	20 28	20 44	14 28		n.a.
T 7	6 34	14 52	5 8	16 4	0 23	14 6	1 22	1 14	0 19	18 5	1 29	22 39	0 49	10 6	0 49	20 53	0 19	15 34	16 46	20 30	20 45	14 25		n.a.
F 8	6 12	19 17	5 5	16 6	0 35	13 41	1 23	1 32	0 18	18 7	1 29	22 39	0 49	10 7	0 49	20 53	0 19	15 34	16 45	20 31	20 45	14 23		n.a.
S 9	5 49	22 54	4 46	16 5	0 47	13 16	1 24	1 50	0 18	18 8	1 29	22 39	0 49	10 8	0 49	20 52	0 19	15 33	16 45	20 32	20 46	14 20		n.a.
S 10	5 25	25 25	4 13	16 3	0 57	12 50	1 25	2 8	0 17	18 10	1 29	22 39	0 49	10 9	0 49	20 52	0 19	15 32	16 45	20 33	20 47	14 17		n.a.
M11	5 2	26 33	3 24	15 58	1 8	12 24	1 25	2 26	0 16	18 12	1 29	22 39	0 49	10 10	0 49	20 52	0 19	15 32	16 45	20 33	20 47	14 14		n.a.
T 12	4 39	26 5	2 23	15 52	1 18	11 58	1 26	2 44	0 16	18 13	1 29	22 40	0 49	10 11	0 49	20 51	0 19	15 31	16 45	20 33	20 48	14 11		n.a.
W13	4 16	23 58	1 12	15 44	1 27	11 31	1 26	3 1	0 15	18 14	1 29	22 40	0 49	10 12	0 49	20 51	0 19	15 31	16 45	20 32	20 49	14 8		n.a.
T 14	3 53	20 15	0s 5	15 34	1 35	11 4	1 27	3 19	0 14	18 16	1 29	22 40	0 49	10 12	0 49	20 51	0 19	15 30	16 45	20 32	20 49	14 6		n.a.
F 15	3 29	15 12	1 24	15 23	1 43	10 37	1 27	3 37	0 14	18 17	1 28	22 40	0 49	10 13	0 49	20 50	0 19	15 29	16 45	20 32	20 50	14 3		n.a.
S 16	3 6	9 10	2 37	15 9	1 51	10 10	1 28	3 55	0 13	18 19	1 28	22 40	0 49	10 14	0 49	20 50	0 19	15 29	16 45	20 33	20 51	14 0		n.a.
S 17	2 43	2 36	3 40	14 54	1 58	9 42	1 28	4 12	0 12	18 20	1 28	22 40	0 49	10 15	0 49	20 50	0 19	15 28	16 45	20 34	20 51	13 57		n.a.
M18	2 19	4s 4	4 28	14 37	2 4	9 14	1 28	4 30	0 12	18 21	1 28	22 40	0 49	10 16	0 49	20 50	0 19	15 28	16 45	20 36	20 52	13 54		n.a.
T 19	1 56	10 24	4 56	14 19	2 10	8 46	1 28	4 47	0 11	18 22	1 28	22 40	0 49	10 17	0 49	20 49	0 19	15 27	16 45	20 38	20 52	13 51		n.a.
W20	1 32	16 2	5 5	13 59	2 15	8 17	1 28	5 5	0 11	18 23	1 28	22 40	0 49	10 18	0 49	20 49	0 19	15 26	16 45	20 39	20 53	13 49		n.a.
T 21	1 9	20 38	4 56	13 37	2 19	7 48	1 28	5 22	0 10	18 24	1 28	22 41	0 49	10 19	0 49	20 49	0 19	15 26	16 45	20 41	20 54	13 46		n.a.
F 22	0 45	23 59	4 30	13 14	2 23	7 20	1 28	5 39	0 9	18 25	1 28	22 41	0 49	10 20	0 49	20 48	0 19	15 25	16 45	20 42	20 54	13 43		n.a.
S 23	0 22	25 56	3 50	12 49	2 27	6 50	1 28	5 56	0 9	18 26	1 27	22 41	0 49	10 20	0 49	20 48	0 19	15 25	16 45	20 43	20 55	13 40		n.a.
S 24	0n 2	26 29	3 1	12 22	2 30	6 21	1 28	6 14	0 8	18 27	1 27	22 41	0 49	10 21	0 49	20 48	0 19	15 24	16 45	20 44	20 56	13 37		n.a.
M25	0 25	25 42	2 4	11 54	2 32	5 52	1 27	6 31	0 7	18 28	1 27	22 41	0 49	10 22	0 49	20 48	0 19	15 23	16 45	20 44	20 56	13 34		n.a.
T 26	0 48	23 43	1 3	11 24	2 34	5 22	1 27	6 48	0 7	18 29	1 27	22 41	0 49	10 23	0 49	20 47	0 19	15 23	16 45	20 43	20 57	13 31		n.a.
W27	1 12	20 43	0n 0	10 53	2 35	4 52	1 27	7 5	0 6	18 29	1 27	22 41	0 49	10 24	0 49	20 47	0 19	15 22	16 45	20 43	20 57	13 29		n.a.
T 28	1 35	16 53	1 3	10 20	2 36	4 23	1 26	7 22	0 5	18 30	1 27	22 41	0 49	10 24	0 49	20 47	0 19	15 22	16 45	20 44	20 58	13 26		n.a.
F 29	1 59	12 25	2 2	9 46	2 36	3 53	1 26	7 38	0 5	18 31	1 26	22 41	0 49	10 25	0 49	20 47	0 19	15 21	16 45	20 44	20 59	13 23		n.a.
S 30	2 22	7 28	2 57	9 10	2 35	3 22	1 25	7 55	0 4	18 31	1 26	22 41	0 49	10 26	0 49	20 46	0 19	15 21	16 45	20 45	20 59	13 20		n.a.
S 31	2n45	2s14	3n44	8s33	2s34	2s52	1s25	8n12	0s 3	18n32	1n26	22s41	0n49	10n27	0n49	20s46	0s19	15s20	16s45	20s47	21s 0	13s17		n.a.

Julian Day Number = 1673269.5, Delta T = 03h19m24s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'12, Lahiri = - 5°46'11 Julian Calendar 1 March 132 BCE == Greg. Calendar 26 Feb. 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

APRIL 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 24 24	7♈49'45	27♓55	16♓ 4	27♓18	21♈36	12°R47	22♐33	5°R13	29♑40	29♓55	27°R55	26♑56	19♒33	n.a.	M 1
T 2	12 28 21	8°47'50	10♈14	17°41	28°32	22°19	12♌45	22°33	5♍11	29°41	29°56	27♑43	26°53	19°40	n.a.	T 2
W 3	12 32 17	9°45'54	22°45	19°19	29°45	23° 1	12°44	22°33	5° 9	29°42	29°58	27°31	26°50	19°47	n.a.	W 3
T 4	12 36 14	10°43'56	5♉28	21° 0	0♈59	23°43	12°42	22°34	5° 7	29°43	29°59	27°19	26°47	19°53	n.a.	T 4
F 5	12 40 10	11°41'56	18°23	22°43	2°13	24°25	12°41	22°R34	5° 5	29°44	0♈ 0	27° 8	26°43	20° 0	n.a.	F 5
S 6	12 44 7	12°39'55	1♊29	24°27	3°27	25° 7	12°40	22°33	5° 3	29°45	0° 2	27° 0	26°40	20° 7	n.a.	S 6
S 7	12 48 3	13°37'52	14°47	26°13	4°40	25°49	12°39	22°33	5° 1	29°46	0° 3	26°55	26°37	20°13	n.a.	S 7
M 8	12 52 0	14°35'46	28°18	28° 2	5°54	26°30	12°38	22°33	4°59	29°47	0° 4	26°52	26°34	20°20	n.a.	M 8
T 9	12 55 56	15°33'39	12♋ 2	29°52	7° 8	27°12	12°37	22°33	4°58	29°48	0° 6	26°D51	26°31	20°27	n.a.	T 9
W10	12 59 53	16°31'30	26° 1	1♈43	8°22	27°54	12°37	22°32	4°56	29°48	0° 7	26°R51	26°28	20°33	n.a.	W10
T 11	13 3 50	17°29'19	10♌13	3°37	9°35	28°36	12°36	22°32	4°54	29°49	0° 9	26°51	26°24	20°40	n.a.	T 11
F 12	13 7 46	18°27'06	24°38	5°33	10°49	29°17	12°D36	22°31	4°53	29°50	0°10	26°49	26°21	20°47	n.a.	F 12
S 13	13 11 43	19°24'51	9♍14	7°30	12° 3	29°59	12°36	22°30	4°51	29°51	0°11	26°44	26°18	20°53	n.a.	S 13
S 14	13 15 39	20°22'34	23°54	9°30	13°16	0♉41	12°36	22°29	4°49	29°51	0°13	26°37	26°15	21° 0	n.a.	S 14
M15	13 19 36	21°20'16	8♎33	11°31	14°30	1°22	12°37	22°28	4°48	29°52	0°14	26°27	26°12	21° 7	n.a.	M15
T 16	13 23 32	22°17'56	23° 3	13°33	15°44	2° 4	12°38	22°27	4°46	29°53	0°15	26°16	26° 8	21°13	n.a.	T 16
W17	13 27 29	23°15'35	7♏16	15°38	16°57	2°45	12°38	22°26	4°45	29°53	0°16	26° 4	26° 5	21°20	n.a.	W17
T 18	13 31 25	24°13'13	21° 8	17°44	18°11	3°26	12°39	22°25	4°43	29°54	0°18	25°54	26° 2	21°27	n.a.	T 18
F 19	13 35 22	25°10'49	4♐36	19°51	19°25	4° 8	12°40	22°24	4°42	29°55	0°19	25°45	25°59	21°33	n.a.	F 19
S 20	13 39 19	26° 8'24	17°38	21°59	20°38	4°49	12°42	22°22	4°41	29°55	0°20	25°39	25°56	21°40	n.a.	S 20
S 21	13 43 15	27° 5'58	0♑17	24° 9	21°52	5°30	12°43	22°21	4°40	29°56	0°22	25°35	25°53	21°47	n.a.	S 21
M22	13 47 12	28° 3'31	12°36	26°19	23° 6	6°12	12°45	22°19	4°38	29°56	0°23	25°33	25°49	21°53	n.a.	M22
T 23	13 51 8	29° 1'03	24°39	28°30	24°19	6°53	12°47	22°18	4°37	29°57	0°24	25°33	25°46	22° 0	n.a.	T 23
W24	13 55 5	29°58'34	6♒32	0♉42	25°33	7°34	12°49	22°16	4°36	29°57	0°25	25°33	25°43	22° 7	n.a.	W24
T 25	13 59 1	0♉56'04	18°21	2°53	26°47	8°15	12°51	22°14	4°35	29°57	0°27	25°32	25°40	22°13	n.a.	T 25
F 26	14 2 58	1°53'33	0♓10	5° 4	28° 0	8°56	12°54	22°12	4°34	29°58	0°28	25°29	25°37	22°20	n.a.	F 26
S 27	14 6 54	2°51'01	12° 5	7°15	29°14	9°37	12°56	22°10	4°33	29°58	0°29	25°24	25°34	22°27	n.a.	S 27
S 28	14 10 51	3°48'28	24°10	9°25	0♉28	10°18	12°59	22° 8	4°32	29°58	0°30	25°16	25°30	22°33	n.a.	S 28
M29	14 14 48	4°45'54	6♈27	11°35	1°41	10°59	13° 2	22° 6	4°31	29°59	0°31	25° 6	25°27	22°40	n.a.	M29
T 30	14 18 44	5♉43'19	18♈59	13♉43	2♉55	11♉40	13♌ 5	22♐ 3	4♍30	29♑59	0♈33	24♑55	25♑24	22♒47	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	3n 8	3n10	4n22	7s54	2s33	2s22	1s24	8n28	0s 3	18n32	1n26	22s41	0n49	10n27	0n49	20s46	0s19	15s20	16s45	20s49	21s 1	13s14		n.a.
T 2	3 32	8 30	4 48	7 14	2 30	1 52	1 23	8 45	0 2	18 33	1 26	22 41	0 49	10 28	0 49	20 46	0 19	15 19	16 45	20 51	21 1	13 11		n.a.
W 3	3 55	13 35	5 0	6 32	2 28	1 21	1 22	9 1	0 2	18 33	1 26	22 41	0 49	10 29	0 49	20 46	0 19	15 19	16 45	20 54	21 2	13 9		n.a.
T 4	4 18	18 10	4 58	5 49	2 24	0 51	1 21	9 17	0 1	18 33	1 25	22 41	0 49	10 30	0 48	20 45	0 19	15 18	16 45	20 56	21 2	13 6		n.a.
F 5	4 41	21 59	4 41	5 4	2 21	0 20	1 20	9 34	0 0	18 33	1 25	22 41	0 49	10 30	0 48	20 45	0 19	15 18	16 45	20 58	21 3	13 3		n.a.
S 6	5 4	24 45	4 9	4 19	2 16	0n10	1 19	9 50	0n 0	18 34	1 25	22 41	0 49	10 31	0 48	20 45	0 19	15 17	16 45	21 0	21 4	13 0		n.a.
S 7	5 26	26 12	3 23	3 31	2 11	0 41	1 18	10 6	0 1	18 34	1 25	22 41	0 49	10 32	0 48	20 45	0 19	15 17	16 45	21 1	21 4	12 57		n.a.
M 8	5 49	26 7	2 25	2 43	2 6	1 11	1 17	10 22	0 2	18 34	1 25	22 41	0 49	10 32	0 48	20 45	0 19	15 16	16 45	21 1	21 5	12 54		n.a.
T 9	6 12	24 27	1 18	1 53	2 0	1 42	1 16	10 38	0 2	18 34	1 25	22 41	0 49	10 33	0 48	20 44	0 19	15 16	16 45	21 2	21 5	12 51		n.a.
W10	6 34	21 16	0 4	1 2	1 54	2 12	1 15	10 53	0 3	18 34	1 24	22 41	0 49	10 34	0 48	20 44	0 19	15 15	16 45	21 2	21 6	12 48		n.a.
T 11	6 56	16 45	1s10	0 10	1 47	2 43	1 14	11 9	0 3	18 34	1 24	22 41	0 49	10 34	0 48	20 44	0 19	15 15	16 45	21 2	21 7	12 46		n.a.
F 12	7 19	11 14	2 21	0n43	1 39	3 13	1 12	11 24	0 4	18 34	1 24	22 41	0 49	10 35	0 48	20 44	0 19	15 14	16 45	21 2	21 7	12 43		n.a.
S 13	7 41	5 3	3 24	1 37	1 31	3 44	1 11	11 40	0 5	18 33	1 24	22 41	0 49	10 35	0 48	20 44	0 19	15 14	16 45	21 3	21 8	12 40		n.a.
S 14	8 3	1s25	4 14	2 32	1 23	4 14	1 9	11 55	0 5	18 33	1 24	22 41	0 49	10 36	0 48	20 44	0 19	15 13	16 46	21 4	21 9	12 37		n.a.
M15	8 25	7 48	4 46	3 28	1 14	4 44	1 8	12 10	0 6	18 33	1 23	22 41	0 49	10 36	0 48	20 44	0 19	15 13	16 46	21 6	21 9	12 34		n.a.
T 16	8 47	13 41	5 0	4 25	1 5	5 14	1 6	12 26	0 6	18 32	1 23	22 41	0 49	10 37	0 48	20 43	0 20	15 13	16 46	21 8	21 10	12 31		n.a.
W17	9 8	18 44	4 55	5 22	0 56	5 44	1 5	12 41	0 7	18 32	1 23	22 41	0 49	10 37	0 48	20 43	0 20	15 12	16 46	21 11	21 10	12 28		n.a.
T 18	9 30	22 37	4 32	6 20	0 46	6 14	1 3	12 55	0 8	18 32	1 23	22 41	0 49	10 38	0 48	20 43	0 20	15 12	16 46	21 13	21 11	12 25		n.a.
F 19	9 51	25 9	3 55	7 18	0 36	6 44	1 1	13 10	0 8	18 31	1 23	22 41	0 49	10 38	0 48	20 43	0 20	15 11	16 46	21 14	21 12	12 22		n.a.
S 20	10 12	26 13	3 6	8 16	0 25	7 14	1 0	13 25	0 9	18 30	1 22	22 41	0 49	10 39	0 48	20 43	0 20	15 11	16 46	21 15	21 12	12 20		n.a.
S 21	10 33	25 52	2 10	9 14	0 15	7 43	0 58	13 39	0 9	18 30	1 22	22 40	0 49	10 39	0 48	20 43	0 20	15 11	16 46	21 16	21 13	12 17		n.a.
M22	10 54	24 14	1 8	10 12	0 4	8 12	0 56	13 54	0 10	18 29	1 22	22 40	0 49	10 40	0 48	20 43	0 20	15 10	16 47	21 16	21 13	12 14		n.a.
T 23	11 15	21 31	0 5	11 10	0n 6	8 42	0 54	14 8	0 11	18 28	1 22	22 40	0 49	10 40	0 48	20 43	0 20	15 10	16 47	21 16	21 14	12 11		n.a.
W24	11 35	17 55	0n58	12 6	0 17	9 11	0 52	14 22	0 11	18 28	1 22	22 40	0 49	10 40	0 48	20 43	0 20	15 10	16 47	21 16	21 15	12 8		n.a.
T 25	11 56	13 38	1 58	13 2	0 27	9 39	0 51	14 36	0 12	18 27	1 22	22 40	0 49	10 41	0 48	20 43	0 20	15 9	16 47	21 17	21 15	12 5		n.a.
F 26	12 16	8 51	2 52	13 57	0 38	10 8	0 49	14 50	0 12	18 26	1 21	22 40	0 49	10 41	0 48	20 43	0 20	15 9	16 47	21 17	21 16	12 2		n.a.
S 27	12 36	3 43	3 40	14 50	0 47	10 36	0 47	15 4	0 13	18 25	1 21	22 40	0 49	10 41	0 48	20 43	0 20	15 9	16 47	21 18	21 16	11 59		n.a.
S 28	12 56	1n36	4 18	15 42	0 57	11 4	0 45	15 17	0 14	18 24	1 21	22 40	0 49	10 42	0 48	20 43	0 20	15 8	16 48	21 19	21 17	11 56		n.a.
M29	13 15	6 57	4 45	16 32	1 6	11 32	0 43	15 31	0 14	18 23	1 21	22 40	0 49	10 42	0 48	20 43	0 20	15 8	16 48	21 21	21 17	11 53		n.a.
T 30	13n35	12n 7	4n59	17n20	1n15	11n59	0s40	15n44	0n15	18n22	1n21	22s40	0n49	10n42	0n48	20s43	0s20	15s 8	16s48	21s23	21s18	11s50		n.a.

Julian Day Number = 1673300.5, Delta T = 03h19m23s
Ecliptic obliquity = 23°42'45, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'07, Lahiri = - 5°46'07 Julian Calendar 1 Apr. 132 BCE == Greg. Calendar 29 March 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

MAY 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 22 41	6♉40'44	1♉46	15♉49	4♉ 9	12♉21	13♌ 8	22°R 1	4°R30	29♑59	0♈34	24°R42	25♑21	22♒53	n.a.	W 1
T 2	14 26 37	7°38'07	14°48	17°54	5°22	13° 2	13°12	21♐59	4♍29	29°59	0°35	24♑30	25°18	23° 0	n.a.	T 2
F 3	14 30 34	8°35'29	28° 4	19°57	6°36	13°42	13°15	21°56	4°28	29°59	0°36	24°19	25°14	23° 7	n.a.	F 3
S 4	14 34 30	9°32'51	11♊32	21°58	7°50	14°23	13°19	21°53	4°27	29°59	0°37	24°11	25°11	23°13	n.a.	S 4
S 5	14 38 27	10°30'11	25°10	23°57	9° 3	15° 4	13°23	21°51	4°27	29°59	0°38	24° 5	25° 8	23°20	n.a.	S 5
M 6	14 42 23	11°27'30	8♋57	25°54	10°17	15°45	13°27	21°48	4°26	29°R59	0°39	24° 3	25° 5	23°27	n.a.	M 6
T 7	14 46 20	12°24'48	22°51	27°49	11°31	16°25	13°31	21°45	4°26	29°59	0°41	24°D 2	25° 2	23°33	n.a.	T 7
W 8	14 50 17	13°22'05	6♌52	29°41	12°44	17° 6	13°35	21°42	4°25	29°59	0°42	24°R 2	24°59	23°40	n.a.	W 8
T 9	14 54 13	14°19'21	21° 0	1♊30	13°58	17°46	13°40	21°39	4°25	29°59	0°43	24° 2	24°55	23°47	n.a.	T 9
F 10	14 58 10	15°16'35	5♍12	3°17	15°12	18°27	13°45	21°36	4°25	29°59	0°44	24° 1	24°52	23°53	n.a.	F 10
S 11	15 2 6	16°13'49	19°28	5° 2	16°25	19° 7	13°50	21°33	4°24	29°59	0°45	23°57	24°49	24° 0	n.a.	S 11
S 12	15 6 3	17°11'01	3♎44	6°44	17°39	19°48	13°55	21°30	4°24	29°59	0°46	23°51	24°46	24° 7	n.a.	S 12
M13	15 9 59	18° 8'13	17°57	8°23	18°53	20°28	14° 0	21°27	4°24	29°58	0°47	23°43	24°43	24°13	n.a.	M13
T 14	15 13 56	19° 5'24	2♏ 2	10° 0	20° 6	21° 8	14° 5	21°23	4°24	29°58	0°48	23°33	24°39	24°20	n.a.	T 14
W15	15 17 52	20° 2'34	15°53	11°34	21°20	21°49	14°11	21°20	4°24	29°58	0°49	23°23	24°36	24°27	n.a.	W15
T 16	15 21 49	20°59'44	29°28	13° 5	22°34	22°29	14°16	21°17	4°D24	29°58	0°50	23°13	24°33	24°33	n.a.	T 16
F 17	15 25 46	21°56'53	12♐43	14°34	23°47	23° 9	14°22	21°13	4°24	29°57	0°51	23° 6	24°30	24°40	n.a.	F 17
S 18	15 29 42	22°54'02	25°38	16° 0	25° 1	23°49	14°28	21° 9	4°24	29°57	0°52	23° 0	24°27	24°47	n.a.	S 18
S 19	15 33 39	23°51'10	8♑12	17°24	26°15	24°29	14°34	21° 6	4°24	29°57	0°53	22°57	24°24	24°53	n.a.	S 19
M20	15 37 35	24°48'19	20°29	18°44	27°28	25°10	14°40	21° 2	4°24	29°56	0°53	22°D56	24°20	25° 0	n.a.	M20
T 21	15 41 32	25°45'27	2♒33	20° 2	28°42	25°50	14°46	20°58	4°25	29°56	0°54	22°56	24°17	25° 7	n.a.	T 21
W22	15 45 28	26°42'35	14°27	21°17	29°56	26°30	14°53	20°55	4°25	29°55	0°55	22°57	24°14	25°13	n.a.	W22
T 23	15 49 25	27°39'42	26°17	22°29	1♊ 9	27°10	14°59	20°51	4°25	29°55	0°56	22°R58	24°11	25°20	n.a.	T 23
F 24	15 53 22	28°36'50	8♓ 8	23°39	2°23	27°50	15° 6	20°47	4°26	29°54	0°57	22°57	24° 8	25°27	n.a.	F 24
S 25	15 57 18	29°33'58	20° 5	24°45	3°37	28°30	15°13	20°43	4°26	29°53	0°58	22°55	24° 5	25°33	n.a.	S 25
S 26	16 1 15	0♊31'05	2♈14	25°48	4°50	29° 9	15°20	20°39	4°27	29°53	0°59	22°51	24° 1	25°40	n.a.	S 26
M27	16 5 11	1°28'13	14°36	26°48	6° 4	29°49	15°27	20°35	4°27	29°52	0°59	22°44	23°58	25°47	n.a.	M27
T 28	16 9 8	2°25'20	27°17	27°45	7°18	0♊29	15°34	20°31	4°28	29°52	1° 0	22°37	23°55	25°53	n.a.	T 28
W29	16 13 4	3°22'28	10♉17	28°38	8°31	1° 9	15°42	20°27	4°29	29°51	1° 1	22°28	23°52	26° 0	n.a.	W29
T 30	16 17 1	4°19'36	23°36	29°28	9°45	1°49	15°49	20°23	4°29	29°50	1° 2	22°20	23°49	26° 7	n.a.	T 30
F 31	16 20 57	5♊16'44	7♊13	0♋14	10♊59	2♊29	15♌57	20♐19	4♍30	29♑49	1♈ 2	22♑13	23♑45	26♒13	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	13n54	16n53	4n59	18n 5	1n23	12n27	0s38	15n58	0n15	18n21	1n20	22s39	0n49	10n43	0n48	20s43	0s20	15s 7	16s48	21s26	21s19	11s47			n.a.
T 2	14 13	20 57	4 42	18 49	1 31	12 54	0 36	16 11	0 16	18 20	1 20	22 39	0 49	10 43	0 48	20 43	0 20	15 7	16 48	21 28	21 19	11 45			n.a.
F 3	14 32	24 1	4 11	19 30	1 38	13 20	0 34	16 24	0 16	18 19	1 20	22 39	0 49	10 43	0 47	20 43	0 20	15 7	16 48	21 30	21 20	11 42			n.a.
S 4	14 50	25 48	3 25	20 9	1 45	13 47	0 32	16 36	0 17	18 17	1 20	22 39	0 49	10 43	0 47	20 43	0 20	15 6	16 49	21 31	21 20	11 39			n.a.
S 5	15 8	26 4	2 27	20 45	1 50	14 13	0 30	16 49	0 18	18 16	1 20	22 39	0 49	10 43	0 47	20 43	0 20	15 6	16 49	21 32	21 21	11 36			n.a.
M 6	15 26	24 43	1 19	21 19	1 56	14 38	0 27	17 2	0 18	18 15	1 19	22 39	0 49	10 44	0 47	20 43	0 20	15 6	16 49	21 33	21 22	11 33			n.a.
T 7	15 44	21 51	0 6	21 51	2 0	15 4	0 25	17 14	0 19	18 13	1 19	22 39	0 49	10 44	0 47	20 43	0 20	15 6	16 49	21 33	21 22	11 30			n.a.
W 8	16 2	17 41	1s 8	22 19	2 4	15 29	0 23	17 26	0 19	18 12	1 19	22 38	0 49	10 44	0 47	20 43	0 20	15 5	16 50	21 33	21 23	11 27			n.a.
T 9	16 19	12 29	2 18	22 46	2 7	15 53	0 21	17 38	0 20	18 10	1 19	22 38	0 49	10 44	0 47	20 43	0 20	15 5	16 50	21 33	21 23	11 24			n.a.
F 10	16 36	6 36	3 20	23 9	2 9	16 17	0 18	17 50	0 20	18 9	1 19	22 38	0 49	10 44	0 47	20 43	0 20	15 5	16 50	21 33	21 24	11 21			n.a.
S 11	16 53	0 23	4 10	23 31	2 10	16 41	0 16	18 2	0 21	18 7	1 19	22 38	0 48	10 44	0 47	20 43	0 20	15 5	16 50	21 34	21 24	11 18			n.a.
S 12	17 9	5s51	4 45	23 50	2 11	17 4	0 14	18 14	0 21	18 5	1 18	22 38	0 48	10 44	0 47	20 43	0 20	15 5	16 50	21 35	21 25	11 15			n.a.
M13	17 26	11 45	5 2	24 7	2 11	17 27	0 11	18 25	0 22	18 4	1 18	22 38	0 48	10 44	0 47	20 43	0 20	15 4	16 51	21 36	21 26	11 12			n.a.
T 14	17 42	16 59	5 0	24 21	2 10	17 50	0 9	18 37	0 23	18 2	1 18	22 37	0 48	10 44	0 47	20 43	0 20	15 4	16 51	21 38	21 26	11 9			n.a.
W15	17 57	21 15	4 40	24 33	2 9	18 12	0 7	18 48	0 23	18 0	1 18	22 37	0 48	10 44	0 47	20 43	0 20	15 4	16 51	21 40	21 27	11 6			n.a.
T 16	18 13	24 15	4 5	24 43	2 7	18 33	0 4	18 59	0 24	17 58	1 18	22 37	0 48	10 44	0 47	20 43	0 20	15 4	16 51	21 41	21 27	11 3			n.a.
F 17	18 28	25 51	3 18	24 51	2 4	18 54	0 2	19 10	0 24	17 57	1 17	22 37	0 48	10 44	0 47	20 43	0 20	15 4	16 52	21 43	21 28	11 1			n.a.
S 18	18 42	25 59	2 21	24 58	2 0	19 15	0n 0	19 20	0 25	17 55	1 17	22 37	0 48	10 44	0 47	20 43	0 20	15 4	16 52	21 44	21 28	10 58			n.a.
S 19	18 57	24 45	1 18	25 2	1 56	19 35	0 3	19 31	0 25	17 53	1 17	22 37	0 48	10 44	0 47	20 43	0 20	15 4	16 52	21 44	21 29	10 55			n.a.
M20	19 11	22 21	0 13	25 4	1 51	19 54	0 5	19 41	0 26	17 51	1 17	22 36	0 48	10 44	0 47	20 44	0 20	15 3	16 52	21 44	21 30	10 52			n.a.
T 21	19 25	18 59	0n51	25 5	1 45	20 13	0 8	19 52	0 26	17 49	1 17	22 36	0 48	10 44	0 47	20 44	0 20	15 3	16 53	21 44	21 30	10 49			n.a.
W22	19 39	14 53	1 53	25 4	1 39	20 32	0 10	20 2	0 27	17 47	1 17	22 36	0 48	10 43	0 47	20 44	0 20	15 3	16 53	21 44	21 31	10 46			n.a.
T 23	19 52	10 15	2 49	25 2	1 32	20 50	0 12	20 12	0 28	17 44	1 16	22 36	0 48	10 43	0 47	20 44	0 20	15 3	16 53	21 44	21 31	10 43			n.a.
F 24	20 5	5 14	3 38	24 58	1 25	21 7	0 15	20 21	0 28	17 42	1 16	22 35	0 48	10 43	0 47	20 44	0 20	15 3	16 54	21 44	21 32	10 40			n.a.
S 25	20 17	0 1	4 18	24 53	1 16	21 24	0 17	20 31	0 29	17 40	1 16	22 35	0 48	10 43	0 47	20 44	0 20	15 3	16 54	21 44	21 32	10 37			n.a.
S 26	20 29	5n17	4 48	24 46	1 7	21 40	0 19	20 40	0 29	17 38	1 16	22 35	0 48	10 43	0 47	20 44	0 20	15 3	16 54	21 45	21 33	10 34			n.a.
M27	20 41	10 29	5 4	24 38	0 58	21 55	0 22	20 50	0 30	17 36	1 16	22 35	0 48	10 42	0 46	20 45	0 20	15 3	16 54	21 46	21 34	10 31			n.a.
T 28	20 53	15 22	5 6	24 29	0 48	22 10	0 24	20 59	0 30	17 33	1 16	22 35	0 48	10 42	0 46	20 45	0 20	15 3	16 55	21 47	21 34	10 28			n.a.
W29	21 4	19 41	4 52	24 19	0 37	22 25	0 26	21 7	0 31	17 31	1 16	22 34	0 48	10 42	0 46	20 45	0 21	15 3	16 55	21 49	21 35	10 25			n.a.
T 30	21 15	23 7	4 23	24 9	0 26	22 38	0 29	21 16	0 31	17 28	1 15	22 34	0 48	10 41	0 46	20 45	0 21	15 3	16 55	21 50	21 35	10 22			n.a.
F 31	21n26	25n21	3n38	23n57	0n14	22n51	0n31	21n25	0n32	17n26	1n15	22s34	0n48	10n41	0n46	20s45	0s21	15s 3	16s56	21s51	21s36	10s19			n.a.

Julian Day Number = 1673330.5, Delta T = 03h19m22s
Ecliptic obliquity = 23°42'44, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°53'03, Lahiri = - 5°46'03 Julian Calendar 1 May 132 BCE == Greg. Calendar 28 Apr. 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

JUNE 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 54	6♊13'52	21♊ 4	0♋57	12♊13	3♊ 8	16♌ 5	20°R14	4♍31	29°R49	1♈ 3	22°R 8	23♑42	26♒20	n.a.	S 1
S 2	16 28 51	7°10'59	5♋ 7	1°35	13°26	3°48	16°12	20♐10	4°32	29♑48	1° 4	22♑ 5	23°39	26°27	n.a.	S 2
M 3	16 32 47	8° 8'07	19°18	2°10	14°40	4°28	16°20	20° 6	4°33	29°47	1° 4	22°D 4	23°36	26°33	n.a.	M 3
T 4	16 36 44	9° 5'15	3♌32	2°41	15°54	5° 7	16°29	20° 2	4°34	29°46	1° 5	22° 4	23°33	26°40	n.a.	T 4
W 5	16 40 40	10° 2'22	17°48	3° 7	17° 8	5°47	16°37	19°57	4°35	29°45	1° 6	22° 5	23°30	26°47	n.a.	W 5
T 6	16 44 37	10°59'29	2♍ 1	3°29	18°21	6°26	16°45	19°53	4°36	29°44	1° 6	22° 6	23°26	26°53	n.a.	T 6
F 7	16 48 33	11°56'36	16°11	3°47	19°35	7° 6	16°54	19°49	4°37	29°43	1° 7	22°R 6	23°23	27° 0	n.a.	F 7
S 8	16 52 30	12°53'42	0♎16	4° 0	20°49	7°45	17° 2	19°44	4°38	29°42	1° 7	22° 5	23°20	27° 7	n.a.	S 8
S 9	16 56 26	13°50'49	14°14	4° 9	22° 2	8°25	17°11	19°40	4°40	29°41	1° 8	22° 2	23°17	27°13	n.a.	S 9
M10	17 0 23	14°47'56	28° 4	4°R12	23°16	9° 4	17°20	19°35	4°41	29°40	1° 8	21°58	23°14	27°20	n.a.	M10
T 11	17 4 20	15°45'02	11♏42	4°11	24°30	9°43	17°28	19°31	4°42	29°39	1° 9	21°53	23°11	27°27	n.a.	T 11
W12	17 8 16	16°42'10	25° 8	4° 6	25°44	10°23	17°37	19°27	4°44	29°38	1° 9	21°47	23° 7	27°33	n.a.	W12
T 13	17 12 13	17°39'17	8♐19	3°55	26°57	11° 2	17°47	19°22	4°45	29°37	1°10	21°42	23° 4	27°40	n.a.	T 13
F 14	17 16 9	18°36'25	21°15	3°40	28°11	11°41	17°56	19°18	4°47	29°36	1°10	21°37	23° 1	27°47	n.a.	F 14
S 15	17 20 6	19°33'33	3♑55	3°21	29°25	12°21	18° 5	19°13	4°48	29°35	1°11	21°35	22°58	27°53	n.a.	S 15
S 16	17 24 2	20°30'41	16°19	2°57	0♋39	13° 0	18°14	19° 9	4°50	29°34	1°11	21°D33	22°55	28° 0	n.a.	S 16
M17	17 27 59	21°27'51	28°31	2°29	1°52	13°39	18°24	19° 5	4°51	29°32	1°11	21°33	22°51	28° 7	n.a.	M17
T 18	17 31 56	22°25'00	10♒31	1°57	3° 6	14°18	18°34	19° 0	4°53	29°31	1°12	21°35	22°48	28°13	n.a.	T 18
W19	17 35 52	23°22'11	22°25	1°23	4°20	14°57	18°43	18°56	4°55	29°30	1°12	21°36	22°45	28°20	n.a.	W19
T 20	17 39 49	24°19'23	4♓15	0°45	5°34	15°36	18°53	18°51	4°56	29°29	1°12	21°38	22°42	28°27	n.a.	T 20
F 21	17 43 45	25°16'35	16° 6	0° 6	6°47	16°16	19° 3	18°47	4°58	29°28	1°13	21°39	22°39	28°33	n.a.	F 21
S 22	17 47 42	26°13'48	28° 4	29♊25	8° 1	16°55	19°13	18°43	5° 0	29°26	1°13	21°R39	22°36	28°40	n.a.	S 22
S 23	17 51 38	27°11'02	10♈12	28°43	9°15	17°34	19°23	18°38	5° 2	29°25	1°13	21°39	22°32	28°47	n.a.	S 23
M24	17 55 35	28° 8'17	22°36	28° 1	10°29	18°13	19°33	18°34	5° 4	29°24	1°14	21°37	22°29	28°53	n.a.	M24
T 25	17 59 31	29° 5'33	5♉19	27°19	11°43	18°52	19°43	18°30	5° 6	29°22	1°14	21°34	22°26	29° 0	n.a.	T 25
W26	18 3 28	0♋ 2'51	18°25	26°39	12°56	19°31	19°54	18°25	5° 8	29°21	1°14	21°31	22°23	29° 7	n.a.	W26
T 27	18 7 25	1° 0'09	1♊53	26° 2	14°10	20° 9	20° 4	18°21	5°10	29°19	1°14	21°28	22°20	29°13	n.a.	T 27
F 28	18 11 21	1°57'28	15°44	25°27	15°24	20°48	20°14	18°17	5°12	29°18	1°14	21°26	22°17	29°20	n.a.	F 28
S 29	18 15 18	2°54'49	29°55	24°55	16°38	21°27	20°25	18°13	5°15	29°17	1°14	21°24	22°13	29°27	n.a.	S 29
S 30	18 19 14	3♋52'10	14♋21	24♊28	17♋52	22♊ 6	20♌36	18♐ 8	5♍17	29♑15	1♈15	21°D23	22♑10	29♒33	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n36	26n 4	2n39	23n44	0n 2	23n 4	0n33	21n33	0n32	17n23	1n15	22s34	0n47	10n41	0n46	20s45	0s21	15s 3	16s56	21s52	21s36	10s16		n.a.
S 2	21 45	25 7	1 30	23 31	0s11	23 15	0 35	21 41	0 33	17 21	1 15	22 33	0 47	10 40	0 46	20 46	0 21	15 3	16 56	21 53	21 37	10 13		n.a.
M 3	21 55	22 33	0 15	23 17	0 24	23 26	0 37	21 49	0 33	17 18	1 15	22 33	0 47	10 40	0 46	20 46	0 21	15 3	16 57	21 53	21 37	10 10		n.a.
T 4	22 4	18 35	1s 2	23 3	0 38	23 37	0 40	21 57	0 34	17 16	1 15	22 33	0 47	10 40	0 46	20 46	0 21	15 3	16 57	21 53	21 38	10 7		n.a.
W 5	22 13	13 32	2 15	22 48	0 52	23 46	0 42	22 5	0 34	17 13	1 14	22 33	0 47	10 39	0 46	20 46	0 21	15 3	16 57	21 53	21 39	10 4		n.a.
T 6	22 21	7 46	3 20	22 33	1 7	23 55	0 44	22 12	0 35	17 10	1 14	22 32	0 47	10 39	0 46	20 46	0 21	15 3	16 57	21 53	21 39	10 1		n.a.
F 7	22 29	1 39	4 12	22 18	1 21	24 4	0 46	22 19	0 35	17 8	1 14	22 32	0 47	10 38	0 46	20 47	0 21	15 3	16 58	21 52	21 40	9 58		n.a.
S 8	22 36	4s31	4 49	22 3	1 36	24 11	0 48	22 26	0 36	17 5	1 14	22 32	0 47	10 38	0 46	20 47	0 21	15 3	16 58	21 53	21 40	9 55		n.a.
S 9	22 43	10 23	5 8	21 47	1 52	24 18	0 50	22 33	0 36	17 2	1 14	22 32	0 47	10 37	0 46	20 47	0 21	15 3	16 58	21 53	21 41	9 52		n.a.
M10	22 50	15 42	5 9	21 32	2 7	24 24	0 52	22 40	0 37	16 59	1 14	22 31	0 47	10 37	0 46	20 47	0 21	15 3	16 59	21 54	21 41	9 49		n.a.
T 11	22 56	20 8	4 52	21 17	2 22	24 30	0 54	22 47	0 37	16 56	1 14	22 31	0 47	10 36	0 46	20 48	0 21	15 3	16 59	21 55	21 42	9 46		n.a.
W12	23 2	23 28	4 20	21 2	2 37	24 34	0 56	22 53	0 38	16 53	1 13	22 31	0 47	10 36	0 46	20 48	0 21	15 3	16 59	21 56	21 42	9 43		n.a.
T 13	23 8	25 28	3 34	20 47	2 52	24 38	0 58	22 59	0 38	16 50	1 13	22 30	0 47	10 35	0 46	20 48	0 21	15 4	17 0	21 56	21 43	9 40		n.a.
F 14	23 13	26 3	2 38	20 33	3 6	24 42	1 0	23 5	0 39	16 48	1 13	22 30	0 46	10 35	0 46	20 48	0 21	15 4	17 0	21 57	21 43	9 38		n.a.
S 15	23 18	25 14	1 35	20 20	3 20	24 44	1 1	23 11	0 39	16 44	1 13	22 30	0 46	10 34	0 46	20 49	0 21	15 4	17 0	21 58	21 44	9 35		n.a.
S 16	23 22	23 10	0 29	20 7	3 34	24 46	1 3	23 16	0 40	16 41	1 13	22 30	0 46	10 33	0 46	20 49	0 21	15 4	17 1	21 58	21 44	9 32		n.a.
M17	23 26	20 4	0n38	19 55	3 46	24 47	1 5	23 22	0 40	16 38	1 13	22 29	0 46	10 33	0 46	20 49	0 21	15 4	17 1	21 58	21 45	9 29		n.a.
T 18	23 30	16 10	1 42	19 44	3 58	24 47	1 6	23 27	0 41	16 35	1 13	22 29	0 46	10 32	0 46	20 49	0 21	15 4	17 1	21 58	21 46	9 26		n.a.
W19	23 33	11 40	2 41	19 34	4 9	24 46	1 8	23 32	0 41	16 32	1 13	22 29	0 46	10 31	0 46	20 50	0 21	15 4	17 2	21 57	21 46	9 23		n.a.
T 20	23 35	6 45	3 33	19 24	4 18	24 45	1 10	23 37	0 42	16 29	1 13	22 29	0 46	10 31	0 45	20 50	0 21	15 5	17 2	21 57	21 47	9 20		n.a.
F 21	23 38	1 37	4 16	19 17	4 26	24 43	1 11	23 42	0 42	16 26	1 12	22 28	0 46	10 30	0 45	20 50	0 21	15 5	17 2	21 57	21 47	9 17		n.a.
S 22	23 39	3n37	4 48	19 10	4 33	24 40	1 13	23 46	0 43	16 22	1 12	22 28	0 46	10 29	0 45	20 51	0 21	15 5	17 3	21 57	21 48	9 14		n.a.
S 23	23 41	8 48	5 8	19 5	4 38	24 37	1 14	23 50	0 43	16 19	1 12	22 28	0 46	10 28	0 45	20 51	0 21	15 5	17 3	21 57	21 48	9 11		n.a.
M24	23 42	13 45	5 15	19 1	4 41	24 33	1 15	23 54	0 44	16 16	1 12	22 27	0 46	10 28	0 45	20 51	0 21	15 5	17 3	21 57	21 49	9 8		n.a.
T 25	23 43	18 14	5 6	18 58	4 43	24 28	1 17	23 58	0 44	16 12	1 12	22 27	0 45	10 27	0 45	20 51	0 21	15 6	17 4	21 58	21 49	9 5		n.a.
W26	23 43	22 0	4 41	18 57	4 43	24 22	1 18	24 2	0 45	16 9	1 12	22 27	0 45	10 26	0 45	20 52	0 21	15 6	17 4	21 58	21 50	9 2		n.a.
T 27	23 42	24 41	4 0	18 58	4 41	24 16	1 19	24 5	0 45	16 6	1 12	22 27	0 45	10 25	0 45	20 52	0 21	15 6	17 5	21 59	21 50	8 59		n.a.
F 28	23 42	25 59	3 4	19 0	4 38	24 8	1 20	24 9	0 46	16 2	1 12	22 26	0 45	10 24	0 45	20 52	0 21	15 6	17 5	21 59	21 51	8 56		n.a.
S 29	23 41	25 39	1 56	19 4	4 33	24 1	1 21	24 12	0 46	15 59	1 12	22 26	0 45	10 24	0 45	20 53	0 21	15 7	17 5	21 59	21 51	8 53		n.a.
S 30	23n39	23n34	0n39	19n10	4s26	23n52	1n22	24n15	0n46	15n55	1n11	22s26	0n45	10n23	0n45	20s53	0s21	15s 7	17s 6	21s59	21s52	8s50		n.a.

Julian Day Number = 1673361.5, Delta T = 03h19m21s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'59, Lahiri = - 5°45'59 Julian Calendar 1 June 132 BCE == Greg. Calendar 29 May 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

JULY 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 23 11	4♋49'32	28♋57	24°R 5	19♋ 5	22♊45	20♌46	18°R 4	5♍19	29°R14	1♈15	21♑23	22♑ 7	29♒40	n.a.	M 1
T 2	18 27 7	5°46'55	13♌36	23♊48	20°19	23°24	20°57	18♐ 0	5°21	29♑12	1°15	21°24	22° 4	29°47	n.a.	T 2
W 3	18 31 4	6°44'19	28°14	23°36	21°33	24° 2	21° 8	17°56	5°24	29°11	1°15	21°25	22° 1	29°53	n.a.	W 3
T 4	18 35 0	7°41'43	12♍44	23°D30	22°47	24°41	21°19	17°52	5°26	29° 9	1°15	21°26	21°57	0♓ 0	n.a.	T 4
F 5	18 38 57	8°39'08	27° 2	23°30	24° 1	25°20	21°30	17°48	5°29	29° 8	1°R15	21°27	21°54	0° 7	n.a.	F 5
S 6	18 42 54	9°36'34	11♎ 6	23°36	25°15	25°59	21°41	17°44	5°31	29° 6	1°15	21°R27	21°51	0°13	n.a.	S 6
S 7	18 46 50	10°34'01	24°56	23°49	26°28	26°37	21°52	17°40	5°34	29° 5	1°15	21°27	21°48	0°20	n.a.	S 7
M 8	18 50 47	11°31'28	8♏29	24° 9	27°42	27°16	22° 3	17°36	5°36	29° 3	1°15	21°26	21°45	0°27	n.a.	M 8
T 9	18 54 43	12°28'57	21°47	24°35	28°56	27°54	22°15	17°33	5°39	29° 2	1°15	21°25	21°42	0°33	n.a.	T 9
W10	18 58 40	13°26'27	4♐50	25° 9	0♌10	28°33	22°26	17°29	5°41	29° 0	1°14	21°24	21°38	0°40	n.a.	W10
T 11	19 2 36	14°23'58	17°38	25°48	1°24	29°12	22°37	17°25	5°44	28°59	1°14	21°23	21°35	0°47	n.a.	T 11
F 12	19 6 33	15°21'29	0♑14	26°35	2°37	29°50	22°49	17°21	5°47	28°57	1°14	21°22	21°32	0°54	n.a.	F 12
S 13	19 10 30	16°19'03	12°37	27°28	3°51	0♋29	23° 0	17°18	5°50	28°55	1°14	21°22	21°29	1° 0	n.a.	S 13
S 14	19 14 26	17°16'37	24°49	28°27	5° 5	1° 7	23°12	17°14	5°52	28°54	1°14	21°D22	21°26	1° 7	n.a.	S 14
M15	19 18 23	18°14'13	6♒52	29°32	6°19	1°46	23°24	17°11	5°55	28°52	1°14	21°22	21°23	1°14	n.a.	M15
T 16	19 22 19	19°11'50	18°48	0♋43	7°32	2°24	23°35	17° 7	5°58	28°51	1°13	21°22	21°19	1°20	n.a.	T 16
W17	19 26 16	20° 9'29	0♓39	2° 0	8°46	3° 2	23°47	17° 4	6° 1	28°49	1°13	21°22	21°16	1°27	n.a.	W17
T 18	19 30 12	21° 7'09	12°29	3°23	10° 0	3°41	23°59	17° 1	6° 4	28°47	1°13	21°R22	21°13	1°34	n.a.	T 18
F 19	19 34 9	22° 4'51	24°20	4°50	11°14	4°19	24°11	16°58	6° 7	28°46	1°13	21°22	21°10	1°40	n.a.	F 19
S 20	19 38 5	23° 2'34	6♈17	6°23	12°28	4°58	24°23	16°54	6°10	28°44	1°12	21°22	21° 7	1°47	n.a.	S 20
S 21	19 42 2	24° 0'20	18°24	8° 0	13°41	5°36	24°35	16°51	6°13	28°43	1°12	21°D22	21° 3	1°54	n.a.	S 21
M22	19 45 59	24°58'07	0♉46	9°40	14°55	6°14	24°47	16°48	6°16	28°41	1°12	21°22	21° 0	2° 0	n.a.	M22
T 23	19 49 55	25°55'56	13°26	11°25	16° 9	6°52	24°59	16°45	6°19	28°39	1°11	21°22	20°57	2° 7	n.a.	T 23
W24	19 53 52	26°53'47	26°29	13°12	17°23	7°31	25°11	16°43	6°22	28°38	1°11	21°23	20°54	2°14	n.a.	W24
T 25	19 57 48	27°51'40	9♊57	15° 2	18°36	8° 9	25°23	16°40	6°25	28°36	1°10	21°23	20°51	2°20	n.a.	T 25
F 26	20 1 45	28°49'35	23°51	16°55	19°50	8°47	25°35	16°37	6°28	28°34	1°10	21°24	20°48	2°27	n.a.	F 26
S 27	20 5 41	29°47'31	8♋10	18°49	21° 4	9°25	25°48	16°34	6°31	28°33	1°10	21°24	20°44	2°34	n.a.	S 27
S 28	20 9 38	0♌45'30	22°50	20°45	22°18	10° 4	26° 0	16°32	6°35	28°31	1° 9	21°R25	20°41	2°40	n.a.	S 28
M29	20 13 34	1°43'30	7♌45	22°42	23°31	10°42	26°12	16°29	6°38	28°29	1° 9	21°24	20°38	2°47	n.a.	M29
T 30	20 17 31	2°41'31	22°47	24°40	24°45	11°20	26°25	16°27	6°41	28°28	1° 8	21°24	20°35	2°54	n.a.	T 30
W31	20 21 28	3♌39'35	7♍48	26♋38	25♌59	11♋58	26♌37	16♐25	6♍45	28♑26	1♈ 8	21♑22	20♑32	3♓ 0	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	23n37	19n55	0s42	19n17	4s18	23n43	1n23	24n17	0n47	15n52	1n11	22s26	0n45	10n22	0n45	20s53	0s21	15s 7	17s 6	21s59	21s52	8s47			n.a.
T 2	23 35	15 1	2 0	19 25	4 9	23 33	1 24	24 20	0 47	15 48	1 11	22 25	0 45	10 21	0 45	20 54	0 21	15 8	17 6	21 59	21 53	8 44			n.a.
W 3	23 32	9 15	3 10	19 35	3 58	23 22	1 25	24 22	0 48	15 44	1 11	22 25	0 45	10 20	0 45	20 54	0 21	15 8	17 7	21 59	21 53	8 41			n.a.
T 4	23 29	3 3	4 7	19 47	3 47	23 10	1 26	24 24	0 48	15 41	1 11	22 25	0 44	10 19	0 45	20 54	0 21	15 8	17 7	21 59	21 54	8 38			n.a.
F 5	23 26	3s13	4 48	19 59	3 34	22 58	1 27	24 26	0 49	15 37	1 11	22 25	0 44	10 18	0 45	20 55	0 21	15 8	17 7	21 59	21 54	8 35			n.a.
S 6	23 22	9 12	5 12	20 13	3 20	22 46	1 27	24 28	0 49	15 33	1 11	22 24	0 44	10 17	0 45	20 55	0 21	15 9	17 8	21 59	21 55	8 32			n.a.
S 7	23 17	14 39	5 16	20 28	3 6	22 32	1 28	24 30	0 50	15 30	1 11	22 24	0 44	10 16	0 45	20 55	0 21	15 9	17 8	21 59	21 55	8 29			n.a.
M 8	23 12	19 15	5 3	20 43	2 52	22 18	1 28	24 31	0 50	15 26	1 11	22 24	0 44	10 15	0 45	20 56	0 21	15 9	17 8	21 59	21 56	8 26			n.a.
T 9	23 7	22 49	4 33	21 0	2 36	22 3	1 29	24 32	0 51	15 22	1 11	22 24	0 44	10 14	0 45	20 56	0 21	15 10	17 9	21 59	21 56	8 23			n.a.
W10	23 1	25 7	3 50	21 16	2 21	21 48	1 29	24 33	0 51	15 18	1 11	22 23	0 44	10 13	0 45	20 56	0 21	15 10	17 9	21 59	21 57	8 20			n.a.
T 11	22 55	26 3	2 56	21 33	2 5	21 32	1 30	24 34	0 51	15 14	1 10	22 23	0 44	10 12	0 45	20 57	0 21	15 10	17 9	21 59	21 57	8 17			n.a.
F 12	22 49	25 37	1 55	21 50	1 50	21 15	1 30	24 35	0 52	15 10	1 10	22 23	0 44	10 11	0 45	20 57	0 21	15 11	17 10	22 0	21 58	8 14			n.a.
S 13	22 42	23 54	0 48	22 7	1 34	20 58	1 30	24 35	0 52	15 7	1 10	22 23	0 43	10 10	0 45	20 57	0 21	15 11	17 10	22 0	21 59	8 11			n.a.
S 14	22 35	21 6	0n19	22 24	1 18	20 40	1 30	24 35	0 53	15 3	1 10	22 22	0 43	10 9	0 45	20 58	0 21	15 12	17 10	22 0	21 59	8 8			n.a.
M15	22 27	17 24	1 25	22 40	1 3	20 22	1 30	24 35	0 53	14 59	1 10	22 22	0 43	10 8	0 45	20 58	0 21	15 12	17 11	22 0	22 0	8 5			n.a.
T 16	22 19	13 2	2 27	22 55	0 48	20 3	1 30	24 35	0 54	14 55	1 10	22 22	0 43	10 7	0 45	20 58	0 21	15 12	17 11	22 0	22 0	8 2			n.a.
W17	22 11	8 14	3 21	23 9	0 33	19 43	1 30	24 35	0 54	14 51	1 10	22 22	0 43	10 6	0 45	20 59	0 21	15 13	17 11	22 0	22 1	7 59			n.a.
T 18	22 2	3 9	4 7	23 21	0 19	19 23	1 30	24 34	0 55	14 47	1 10	22 22	0 43	10 5	0 45	20 59	0 21	15 13	17 12	22 0	22 1	7 56			n.a.
F 19	21 53	2n 3	4 43	23 32	0 5	19 2	1 30	24 33	0 55	14 43	1 10	22 21	0 43	10 4	0 44	20 59	0 21	15 14	17 12	22 0	22 2	7 53			n.a.
S 20	21 43	7 12	5 6	23 42	0n 8	18 41	1 29	24 32	0 55	14 39	1 10	22 21	0 43	10 2	0 44	21 0	0 21	15 14	17 12	22 0	22 2	7 50			n.a.
S 21	21 33	12 10	5 17	23 49	0 21	18 19	1 29	24 31	0 56	14 34	1 10	22 21	0 42	10 1	0 44	21 0	0 21	15 14	17 13	22 0	22 3	7 47			n.a.
M22	21 23	16 45	5 13	23 53	0 32	17 57	1 29	24 30	0 56	14 30	1 10	22 21	0 42	10 0	0 44	21 1	0 21	15 15	17 13	22 0	22 3	7 44			n.a.
T 23	21 12	20 43	4 54	23 56	0 43	17 35	1 28	24 28	0 57	14 26	1 10	22 21	0 42	9 59	0 44	21 1	0 22	15 15	17 13	22 0	22 3	7 41			n.a.
W24	21 1	23 48	4 20	23 56	0 53	17 11	1 28	24 27	0 57	14 22	1 10	22 21	0 42	9 58	0 44	21 1	0 22	15 16	17 14	21 59	22 4	7 38			n.a.
T 25	20 50	25 40	3 30	23 53	1 2	16 48	1 27	24 25	0 57	14 18	1 10	22 20	0 42	9 57	0 44	21 2	0 22	15 16	17 14	21 59	22 4	7 35			n.a.
F 26	20 38	26 1	2 27	23 48	1 11	16 24	1 26	24 23	0 58	14 14	1 10	22 20	0 42	9 55	0 44	21 2	0 22	15 17	17 14	21 59	22 5	7 32			n.a.
S 27	20 26	24 40	1 13	23 40	1 18	15 59	1 25	24 21	0 58	14 9	1 10	22 20	0 42	9 54	0 44	21 2	0 22	15 17	17 15	21 59	22 5	7 28			n.a.
S 28	20 13	21 38	0s 8	23 29	1 25	15 34	1 25	24 18	0 59	14 5	1 10	22 20	0 41	9 53	0 44	21 3	0 22	15 18	17 15	21 59	22 6	7 25			n.a.
M29	20 0	17 6	1 29	23 16	1 30	15 9	1 24	24 15	0 59	14 1	1 9	22 20	0 41	9 52	0 44	21 3	0 22	15 18	17 15	21 59	22 6	7 22			n.a.
T 30	19 47	11 28	2 45	23 0	1 35	14 43	1 23	24 13	1 0	13 56	1 9	22 20	0 41	9 50	0 44	21 3	0 22	15 18	17 15	21 59	22 7	7 19			n.a.
W31	19n33	5n12	3s50	22n41	1n39	14n17	1n22	24n10	1n 0	13n52	1n 9	22s20	0n41	9n49	0n44	21s 4	0s22	15s19	17s16	22s 0	22s 7	7s16			n.a.

Julian Day Number = 1673391.5, Delta T = 03h19m20s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'55, Lahiri = - 5°45'55 Julian Calendar 1 July 132 BCE == Greg. Calendar 28 June 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

AUGUST 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 25 24	4♌37'39	22♍39	28♋36	27♌13	12♋36	26♌50	16°R23	6♍48	28°R24	1°R 7	21°R21	20♑29	3♓ 7	n.a.	T 1
F 2	20 29 21	5°35'45	7♎13	0♌35	28°26	13°14	27° 2	16♐20	6°51	28♑23	1♈ 6	21♑19	20°25	3°14	n.a.	F 2
S 3	20 33 17	6°33'53	21°27	2°33	29°40	13°52	27°15	16°18	6°55	28°21	1° 6	21°18	20°22	3°20	n.a.	S 3
S 4	20 37 14	7°32'03	5♏17	4°30	0♍54	14°30	27°27	16°16	6°58	28°20	1° 5	21°D18	20°19	3°27	n.a.	S 4
M 5	20 41 10	8°30'14	18°45	6°27	2° 7	15° 8	27°40	16°15	7° 1	28°18	1° 5	21°18	20°16	3°34	n.a.	M 5
T 6	20 45 7	9°28'26	1♐51	8°23	3°21	15°46	27°52	16°13	7° 5	28°16	1° 4	21°19	20°13	3°41	n.a.	T 6
W 7	20 49 3	10°26'40	14°39	10°18	4°35	16°24	28° 5	16°11	7° 8	28°15	1° 3	21°20	20° 9	3°47	n.a.	W 7
T 8	20 53 0	11°24'56	27°10	12°12	5°48	17° 2	28°18	16°10	7°12	28°13	1° 3	21°22	20° 6	3°54	n.a.	T 8
F 9	20 56 57	12°23'14	9♑29	14° 6	7° 2	17°40	28°31	16° 8	7°15	28°12	1° 2	21°23	20° 3	4° 1	n.a.	F 9
S 10	21 0 53	13°21'33	21°38	15°58	8°16	18°18	28°43	16° 7	7°19	28°10	1° 1	21°R23	20° 0	4° 7	n.a.	S 10
S 11	21 4 50	14°19'54	3♒39	17°49	9°29	18°56	28°56	16° 5	7°22	28° 8	1° 1	21°23	19°57	4°14	n.a.	S 11
M12	21 8 46	15°18'17	15°34	19°39	10°43	19°34	29° 9	16° 4	7°26	28° 7	1° 0	21°21	19°54	4°21	n.a.	M12
T 13	21 12 43	16°16'42	27°26	21°28	11°56	20°12	29°22	16° 3	7°30	28° 5	0°59	21°18	19°50	4°27	n.a.	T 13
W14	21 16 39	17°15'09	9♓16	23°16	13°10	20°50	29°35	16° 2	7°33	28° 4	0°58	21°14	19°47	4°34	n.a.	W14
T 15	21 20 36	18°13'38	21° 6	25° 3	14°24	21°27	29°47	16° 1	7°37	28° 2	0°58	21° 9	19°44	4°41	n.a.	T 15
F 16	21 24 32	19°12'09	2♈59	26°49	15°37	22° 5	0♍ 0	16° 0	7°40	28° 1	0°57	21° 5	19°41	4°47	n.a.	F 16
S 17	21 28 29	20°10'42	14°58	28°34	16°51	22°43	0°13	15°59	7°44	27°59	0°56	21° 0	19°38	4°54	n.a.	S 17
S 18	21 32 25	21° 9'18	27° 6	0♍17	18° 4	23°21	0°26	15°59	7°48	27°58	0°55	20°57	19°35	5° 1	n.a.	S 18
M19	21 36 22	22° 7'56	9♉26	2° 0	19°18	23°58	0°39	15°58	7°51	27°56	0°54	20°54	19°31	5° 7	n.a.	M19
T 20	21 40 19	23° 6'36	22° 2	3°41	20°31	24°36	0°52	15°58	7°55	27°55	0°53	20°D54	19°28	5°14	n.a.	T 20
W21	21 44 15	24° 5'18	4♊58	5°22	21°45	25°14	1° 5	15°57	7°59	27°53	0°53	20°54	19°25	5°21	n.a.	W21
T 22	21 48 12	25° 4'04	18°18	7° 1	22°58	25°52	1°18	15°57	8° 3	27°52	0°52	20°55	19°22	5°27	n.a.	T 22
F 23	21 52 8	26° 2'51	2♋ 5	8°40	24°11	26°29	1°31	15°57	8° 6	27°51	0°51	20°57	19°19	5°34	n.a.	F 23
S 24	21 56 5	27° 1'41	16°19	10°17	25°25	27° 7	1°44	15°D57	8°10	27°49	0°50	20°R58	19°15	5°41	n.a.	S 24
S 25	22 0 1	28° 0'33	0♌58	11°54	26°38	27°45	1°57	15°57	8°14	27°48	0°49	20°58	19°12	5°48	n.a.	S 25
M26	22 3 58	28°59'27	15°58	13°30	27°52	28°22	2°10	15°57	8°17	27°47	0°48	20°56	19° 9	5°54	n.a.	M26
T 27	22 7 54	29°58'23	1♍11	15° 4	29° 5	29° 0	2°23	15°57	8°21	27°45	0°47	20°52	19° 6	6° 1	n.a.	T 27
W28	22 11 51	0♍57'22	16°27	16°38	0♎19	29°37	2°36	15°57	8°25	27°44	0°46	20°46	19° 3	6° 8	n.a.	W28
T 29	22 15 48	1°56'22	1♎36	18°11	1°32	0♌15	2°49	15°58	8°29	27°43	0°45	20°40	19° 0	6°14	n.a.	T 29
F 30	22 19 44	2°55'25	16°27	19°43	2°45	0°52	3° 2	15°58	8°33	27°41	0°44	20°34	18°56	6°21	n.a.	F 30
S 31	22 23 41	3♍54'29	0♏54	21♍14	3♎59	1♌30	3♍15	15♐59	8♍36	27♑40	0♈43	20♑29	18♑53	6♓28	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n19	1s18	4s38	22n21	1n42	13n50	1n20	24n 7	1n 0	13n48	1n 9	22s20	0n41	9n48	0n44	21s 4	0s22	15s19	17s16	22s 0	22s 8	7s13			n.a.
F 2	19 5	7 35	5 7	21 58	1 45	13 23	1 19	24 3	1 1	13 43	1 9	22 20	0 41	9 47	0 44	21 4	0 22	15 20	17 16	22 0	22 8	7 10			n.a.
S 3	18 51	13 20	5 16	21 32	1 46	12 56	1 18	24 0	1 1	13 39	1 9	22 20	0 41	9 45	0 44	21 5	0 22	15 20	17 17	22 0	22 9	7 7			n.a.
S 4	18 36	18 14	5 7	21 5	1 47	12 28	1 17	23 56	1 2	13 35	1 9	22 19	0 40	9 44	0 44	21 5	0 22	15 21	17 17	22 0	22 9	7 4			n.a.
M 5	18 21	22 5	4 41	20 36	1 48	12 0	1 15	23 52	1 2	13 30	1 9	22 19	0 40	9 43	0 44	21 5	0 22	15 21	17 17	22 0	22 10	7 1			n.a.
T 6	18 5	24 42	4 1	20 6	1 47	11 32	1 14	23 48	1 2	13 26	1 9	22 19	0 40	9 41	0 44	21 6	0 22	15 22	17 17	22 0	22 10	6 58			n.a.
W 7	17 49	25 57	3 9	19 34	1 46	11 4	1 12	23 44	1 3	13 21	1 9	22 19	0 40	9 40	0 44	21 6	0 22	15 22	17 18	22 0	22 11	6 55			n.a.
T 8	17 33	25 51	2 10	19 0	1 45	10 35	1 11	23 39	1 3	13 17	1 9	22 19	0 40	9 39	0 44	21 6	0 22	15 23	17 18	22 0	22 11	6 52			n.a.
F 9	17 17	24 27	1 5	18 25	1 43	10 6	1 9	23 35	1 4	13 12	1 9	22 19	0 40	9 37	0 44	21 7	0 22	15 23	17 18	21 59	22 12	6 49			n.a.
S 10	17 0	21 56	0n 1	17 49	1 40	9 36	1 7	23 30	1 4	13 8	1 9	22 19	0 40	9 36	0 44	21 7	0 22	15 24	17 18	21 59	22 12	6 46			n.a.
S 11	16 43	18 28	1 7	17 12	1 37	9 7	1 6	23 25	1 4	13 3	1 9	22 19	0 39	9 35	0 44	21 7	0 22	15 24	17 19	21 59	22 13	6 43			n.a.
M12	16 26	14 18	2 9	16 34	1 34	8 37	1 4	23 20	1 5	12 59	1 9	22 19	0 39	9 33	0 44	21 8	0 22	15 25	17 19	22 0	22 13	6 40			n.a.
T 13	16 8	9 36	3 5	15 55	1 30	8 7	1 2	23 15	1 5	12 54	1 9	22 19	0 39	9 32	0 44	21 8	0 22	15 26	17 19	22 0	22 14	6 37			n.a.
W14	15 50	4 35	3 53	15 16	1 26	7 36	1 0	23 10	1 6	12 50	1 9	22 19	0 39	9 31	0 44	21 8	0 22	15 26	17 20	22 1	22 14	6 34			n.a.
T 15	15 32	0n35	4 31	14 35	1 21	7 6	0 58	23 4	1 6	12 45	1 9	22 19	0 39	9 29	0 44	21 9	0 22	15 27	17 20	22 2	22 15	6 31			n.a.
F 16	15 14	5 44	4 57	13 54	1 16	6 35	0 56	22 58	1 6	12 40	1 9	22 19	0 39	9 28	0 44	21 9	0 22	15 27	17 20	22 2	22 15	6 28			n.a.
S 17	14 55	10 44	5 11	13 13	1 11	6 4	0 54	22 52	1 7	12 36	1 9	22 20	0 39	9 27	0 44	21 9	0 22	15 28	17 20	22 3	22 15	6 25			n.a.
S 18	14 37	15 22	5 11	12 31	1 6	5 33	0 51	22 46	1 7	12 31	1 9	22 20	0 38	9 25	0 44	21 10	0 22	15 28	17 20	22 4	22 16	6 22			n.a.
M19	14 17	19 28	4 57	11 49	1 0	5 2	0 49	22 40	1 8	12 27	1 9	22 20	0 38	9 24	0 44	21 10	0 22	15 29	17 21	22 4	22 16	6 19			n.a.
T 20	13 58	22 47	4 28	11 6	0 54	4 31	0 47	22 34	1 8	12 22	1 9	22 20	0 38	9 22	0 44	21 10	0 22	15 29	17 21	22 4	22 17	6 16			n.a.
W21	13 39	25 3	3 45	10 23	0 48	3 59	0 45	22 27	1 8	12 17	1 9	22 20	0 38	9 21	0 44	21 11	0 22	15 30	17 21	22 4	22 17	6 13			n.a.
T 22	13 19	26 0	2 49	9 40	0 42	3 28	0 42	22 20	1 9	12 13	1 9	22 20	0 38	9 20	0 44	21 11	0 22	15 30	17 21	22 4	22 18	6 10			n.a.
F 23	12 59	25 23	1 41	8 57	0 35	2 56	0 40	22 14	1 9	12 8	1 9	22 20	0 38	9 18	0 44	21 11	0 22	15 31	17 21	22 4	22 18	6 7			n.a.
S 24	12 39	23 7	0 25	8 14	0 29	2 25	0 37	22 7	1 10	12 3	1 9	22 20	0 38	9 17	0 44	21 11	0 22	15 31	17 22	22 3	22 19	6 4			n.a.
S 25	12 18	19 17	0s54	7 31	0 22	1 53	0 35	21 59	1 10	11 59	1 9	22 20	0 37	9 15	0 44	21 12	0 22	15 32	17 22	22 3	22 19	6 1			n.a.
M26	11 57	14 8	2 12	6 47	0 15	1 21	0 32	21 52	1 10	11 54	1 9	22 21	0 37	9 14	0 44	21 12	0 22	15 33	17 22	22 4	22 20	5 58			n.a.
T 27	11 37	8 3	3 21	6 4	0 8	0 49	0 29	21 45	1 11	11 49	1 9	22 21	0 37	9 12	0 44	21 12	0 22	15 33	17 22	22 4	22 20	5 55			n.a.
W28	11 15	1 29	4 16	5 21	0 1	0 17	0 27	21 37	1 11	11 44	1 9	22 21	0 37	9 11	0 44	21 12	0 22	15 34	17 22	22 5	22 20	5 52			n.a.
T 29	10 54	5s 6	4 53	4 38	0s 6	0s15	0 24	21 29	1 11	11 40	1 9	22 21	0 37	9 10	0 44	21 13	0 22	15 34	17 23	22 6	22 21	5 49			n.a.
F 30	10 33	11 16	5 9	3 55	0 14	0 47	0 21	21 21	1 12	11 35	1 9	22 21	0 37	9 8	0 44	21 13	0 22	15 35	17 23	22 7	22 21	5 46			n.a.
S 31	10n11	16s39	5s 4	3n12	0s21	1s19	0n18	21n13	1n12	11n30	1n 9	22s21	0n37	9n 7	0n44	21s13	0s22	15s35	17s23	22s 8	22s22	5s43			n.a.

Julian Day Number = 1673422.5, Delta T = 03h19m19s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'51, Lahiri = - 5°45'50 Julian Calendar 1 Aug. 132 BCE == Greg. Calendar 29 July 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

SEPTEMBER 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 27 37	4♍53'35	14♏53	22♍44	5♎12	2♌ 7	3♍28	16♐ 0	8♍40	27°R39	0°R42	20°R25	18♑50	6♓34	n.a.	S 1
M 2	22 31 34	5°52'44	28°24	24°13	6°25	2°45	3°41	16° 1	8°44	27♑38	0♈41	20♑23	18°47	6°41	n.a.	M 2
T 3	22 35 30	6°51'54	11♐29	25°41	7°38	3°22	3°54	16° 2	8°48	27°36	0°40	20°D23	18°44	6°48	n.a.	T 3
W 4	22 39 27	7°51'06	24°10	27° 9	8°52	4° 0	4° 7	16° 3	8°51	27°35	0°39	20°24	18°40	6°54	n.a.	W 4
T 5	22 43 23	8°50'19	6♑33	28°35	10° 5	4°37	4°20	16° 4	8°55	27°34	0°38	20°26	18°37	7° 1	n.a.	T 5
F 6	22 47 20	9°49'35	18°42	0♎ 1	11°18	5°15	4°33	16° 5	8°59	27°33	0°37	20°R26	18°34	7° 8	n.a.	F 6
S 7	22 51 17	10°48'53	0♒42	1°25	12°31	5°52	4°46	16° 6	9° 3	27°32	0°36	20°26	18°31	7°14	n.a.	S 7
S 8	22 55 13	11°48'12	12°35	2°49	13°44	6°29	4°59	16° 8	9° 7	27°31	0°35	20°23	18°28	7°21	n.a.	S 8
M 9	22 59 10	12°47'34	24°25	4°11	14°58	7° 7	5°12	16° 9	9°10	27°30	0°34	20°18	18°25	7°28	n.a.	M 9
T 10	23 3 6	13°46'57	6♓15	5°33	16°11	7°44	5°25	16°11	9°14	27°29	0°33	20°11	18°21	7°35	n.a.	T 10
W11	23 7 3	14°46'23	18° 6	6°53	17°24	8°21	5°38	16°12	9°18	27°28	0°32	20° 1	18°18	7°41	n.a.	W11
T 12	23 10 59	15°45'51	0♈ 1	8°12	18°37	8°59	5°51	16°14	9°22	27°27	0°30	19°50	18°15	7°48	n.a.	T 12
F 13	23 14 56	16°45'21	12° 0	9°30	19°50	9°36	6° 4	16°16	9°26	27°26	0°29	19°39	18°12	7°55	n.a.	F 13
S 14	23 18 52	17°44'53	24° 5	10°47	21° 3	10°13	6°17	16°18	9°29	27°25	0°28	19°29	18° 9	8° 1	n.a.	S 14
S 15	23 22 49	18°44'28	6♉19	12° 2	22°16	10°50	6°30	16°20	9°33	27°24	0°27	19°20	18° 6	8° 8	n.a.	S 15
M16	23 26 45	19°44'04	18°42	13°16	23°29	11°27	6°43	16°22	9°37	27°23	0°26	19°13	18° 2	8°15	n.a.	M16
T 17	23 30 42	20°43'44	1♊19	14°28	24°42	12° 5	6°56	16°25	9°41	27°22	0°25	19° 9	17°59	8°21	n.a.	T 17
W18	23 34 39	21°43'25	14°12	15°39	25°54	12°42	7° 8	16°27	9°44	27°22	0°24	19° 7	17°56	8°28	n.a.	W18
T 19	23 38 35	22°43'10	27°24	16°47	27° 7	13°19	7°21	16°29	9°48	27°21	0°23	19°D 7	17°53	8°35	n.a.	T 19
F 20	23 42 32	23°42'56	11♋ 0	17°54	28°20	13°56	7°34	16°32	9°52	27°20	0°22	19° 7	17°50	8°41	n.a.	F 20
S 21	23 46 28	24°42'45	25° 1	18°58	29°33	14°33	7°47	16°35	9°55	27°19	0°20	19°R 7	17°46	8°48	n.a.	S 21
S 22	23 50 25	25°42'36	9♌27	20° 0	0♏46	15°10	8° 0	16°37	9°59	27°19	0°19	19° 6	17°43	8°55	n.a.	S 22
M23	23 54 21	26°42'30	24°16	20°59	1°59	15°47	8°12	16°40	10° 3	27°18	0°18	19° 2	17°40	9° 2	n.a.	M23
T 24	23 58 18	27°42'25	9♍22	21°55	3°11	16°24	8°25	16°43	10° 6	27°17	0°17	18°55	17°37	9° 8	n.a.	T 24
W25	0 2 14	28°42'23	24°36	22°48	4°24	17° 1	8°38	16°46	10°10	27°17	0°16	18°46	17°34	9°15	n.a.	W25
T 26	0 6 11	29°42'23	9♎48	23°37	5°37	17°38	8°50	16°49	10°14	27°16	0°15	18°35	17°31	9°22	n.a.	T 26
F 27	0 10 8	0♎42'25	24°47	24°22	6°49	18°15	9° 3	16°52	10°17	27°16	0°13	18°24	17°27	9°28	n.a.	F 27
S 28	0 14 4	1°42'28	9♏24	25° 3	8° 2	18°52	9°15	16°56	10°21	27°15	0°12	18°15	17°24	9°35	n.a.	S 28
S 29	0 18 1	2°42'34	23°33	25°38	9°15	19°29	9°28	16°59	10°25	27°15	0°11	18° 7	17°21	9°42	n.a.	S 29
M30	0 21 57	3♎42'41	7♐11	26♎ 8	10♏27	20♌ 6	9♍40	17♐ 3	10♍28	27♑14	0♈10	18♑ 2	17♑18	9♓48	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n49	20s58	4s42	2n29	0s28	1s51	0n16	21n 5	1n13	11n25	1n 9	22s22	0n36	9n 5	0n44	21s14	0s22	15s36	17s23	22s 8	22s22	5s40		n.a.
M 2	9 28	24 0	4 4	1 47	0 36	2 23	0 13	20 57	1 13	11 21	1 9	22 22	0 36	9 4	0 44	21 14	0 22	15 36	17 23	22 9	22 23	5 37		n.a.
T 3	9 5	25 38	3 15	1 5	0 43	2 55	0 10	20 49	1 13	11 16	1 9	22 22	0 36	9 2	0 44	21 14	0 22	15 37	17 23	22 9	22 23	5 34		n.a.
W 4	8 43	25 52	2 17	0 23	0 50	3 27	0 7	20 40	1 14	11 11	1 9	22 22	0 36	9 1	0 44	21 14	0 22	15 37	17 23	22 9	22 24	5 31		n.a.
T 5	8 21	24 47	1 14	0s19	0 58	3 58	0 4	20 31	1 14	11 6	1 10	22 23	0 36	8 59	0 44	21 14	0 22	15 38	17 24	22 8	22 24	5 28		n.a.
F 6	7 58	22 33	0 9	1 0	1 5	4 30	0 1	20 22	1 14	11 2	1 10	22 23	0 36	8 58	0 44	21 15	0 22	15 38	17 24	22 8	22 24	5 25		n.a.
S 7	7 36	19 20	0n55	1 41	1 12	5 2	0s 2	20 13	1 15	10 57	1 10	22 23	0 36	8 57	0 44	21 15	0 22	15 39	17 24	22 8	22 25	5 22		n.a.
S 8	7 13	15 22	1 56	2 21	1 20	5 33	0 5	20 4	1 15	10 52	1 10	22 23	0 36	8 55	0 44	21 15	0 22	15 39	17 24	22 9	22 25	5 18		n.a.
M 9	6 50	10 50	2 52	3 1	1 27	6 5	0 8	19 55	1 15	10 47	1 10	22 24	0 35	8 54	0 44	21 15	0 22	15 40	17 24	22 9	22 26	5 15		n.a.
T 10	6 27	5 55	3 40	3 40	1 34	6 36	0 11	19 46	1 16	10 43	1 10	22 24	0 35	8 52	0 44	21 16	0 22	15 41	17 24	22 11	22 26	5 12		n.a.
W11	6 4	0 47	4 19	4 18	1 41	7 7	0 14	19 36	1 16	10 38	1 10	22 24	0 35	8 51	0 44	21 16	0 22	15 41	17 24	22 12	22 27	5 9		n.a.
T 12	5 41	4n23	4 46	4 56	1 48	7 38	0 17	19 27	1 17	10 33	1 10	22 25	0 35	8 49	0 44	21 16	0 22	15 42	17 24	22 14	22 27	5 6		n.a.
F 13	5 17	9 25	5 2	5 34	1 55	8 9	0 20	19 17	1 17	10 28	1 10	22 25	0 35	8 48	0 44	21 16	0 22	15 42	17 24	22 15	22 28	5 3		n.a.
S 14	4 54	14 8	5 3	6 10	2 1	8 40	0 23	19 7	1 17	10 23	1 10	22 25	0 35	8 47	0 44	21 16	0 22	15 43	17 24	22 17	22 28	5 0		n.a.
S 15	4 30	18 21	4 51	6 46	2 8	9 10	0 27	18 57	1 18	10 19	1 10	22 26	0 35	8 45	0 44	21 17	0 22	15 43	17 25	22 18	22 28	4 57		n.a.
M16	4 7	21 50	4 25	7 21	2 14	9 41	0 30	18 47	1 18	10 14	1 10	22 26	0 34	8 44	0 44	21 17	0 22	15 44	17 25	22 19	22 29	4 54		n.a.
T 17	3 43	24 21	3 46	7 55	2 20	10 11	0 33	18 37	1 18	10 9	1 10	22 26	0 34	8 42	0 44	21 17	0 22	15 44	17 25	22 20	22 29	4 51		n.a.
W18	3 19	25 39	2 55	8 28	2 26	10 41	0 36	18 27	1 19	10 4	1 10	22 27	0 34	8 41	0 44	21 17	0 22	15 45	17 25	22 20	22 30	4 48		n.a.
T 19	2 55	25 34	1 53	9 0	2 31	11 10	0 39	18 16	1 19	10 0	1 10	22 27	0 34	8 39	0 44	21 17	0 22	15 45	17 25	22 20	22 30	4 45		n.a.
F 20	2 31	23 58	0 43	9 30	2 37	11 40	0 42	18 6	1 19	9 55	1 10	22 28	0 34	8 38	0 44	21 17	0 22	15 46	17 25	22 20	22 31	4 42		n.a.
S 21	2 7	20 52	0s31	10 0	2 41	12 9	0 46	17 55	1 20	9 50	1 10	22 28	0 34	8 37	0 44	21 17	0 22	15 46	17 25	22 20	22 31	4 39		n.a.
S 22	1 43	16 23	1 46	10 28	2 46	12 38	0 49	17 45	1 20	9 45	1 11	22 28	0 34	8 35	0 44	21 18	0 22	15 47	17 25	22 20	22 31	4 36		n.a.
M23	1 19	10 50	2 55	10 54	2 50	13 6	0 52	17 34	1 20	9 41	1 11	22 29	0 33	8 34	0 44	21 18	0 22	15 47	17 25	22 21	22 32	4 33		n.a.
T 24	0 55	4 33	3 54	11 19	2 54	13 35	0 55	17 23	1 21	9 36	1 11	22 29	0 33	8 32	0 44	21 18	0 22	15 47	17 25	22 22	22 32	4 30		n.a.
W25	0 31	2s 3	4 36	11 42	2 57	14 3	0 58	17 12	1 21	9 31	1 11	22 30	0 33	8 31	0 44	21 18	0 22	15 48	17 25	22 23	22 33	4 27		n.a.
T 26	0 7	8 29	4 58	12 3	2 59	14 30	1 1	17 1	1 21	9 26	1 11	22 30	0 33	8 30	0 44	21 18	0 22	15 48	17 25	22 24	22 33	4 24		n.a.
F 27	0s17	14 21	5 0	12 21	3 1	14 57	1 4	16 49	1 22	9 22	1 11	22 31	0 33	8 28	0 44	21 18	0 22	15 49	17 25	22 26	22 33	4 21		n.a.
S 28	0 41	19 14	4 42	12 37	3 2	15 24	1 7	16 38	1 22	9 17	1 11	22 31	0 33	8 27	0 44	21 18	0 22	15 49	17 25	22 27	22 34	4 18		n.a.
S 29	1 5	22 51	4 7	12 51	3 3	15 51	1 10	16 27	1 22	9 12	1 11	22 31	0 33	8 26	0 44	21 18	0 22	15 50	17 25	22 28	22 34	4 15		n.a.
M30	1s29	25s 1	3s18	13s 2	3s 2	16s17	1s13	16n15	1n23	9n 8	1n11	22s32	0n33	8n24	0n44	21s18	0s22	15s50	17s25	22s29	22s35	4s12		n.a.

Julian Day Number = 1673453.5, Delta T = 03h19m18s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'47, Lahiri = - 5°45'46 Julian Calendar 1 Sept. 132 BCE == Greg. Calendar 29 Aug. 132 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

OCTOBER 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 25 54	4♎42'50	20♐20	26♎32	11♏40	20♌43	9♍53	17♐ 6	10♍32	27°R14	0°R 9	17°R59	17♉15	9♓55	n.a.	T 1
W 2	0 29 50	5°43'01	3♉ 4	26°49	12°52	21°20	10° 5	17°10	10°35	27♉14	0♈ 8	17°D58	17°12	10° 2	n.a.	W 2
T 3	0 33 47	6°43'13	15°26	26°58	14° 5	21°57	10°18	17°13	10°39	27°13	0° 7	17°R59	17° 8	10° 8	n.a.	T 3
F 4	0 37 43	7°43'27	27°33	27°R 0	15°17	22°33	10°30	17°17	10°42	27°13	0° 6	17♉58	17° 5	10°15	n.a.	F 4
S 5	0 41 40	8°43'42	9♒29	26°53	16°29	23°10	10°42	17°21	10°46	27°13	0° 4	17°56	17° 2	10°22	n.a.	S 5
S 6	0 45 37	9°43'59	21°19	26°37	17°42	23°47	10°54	17°25	10°49	27°12	0° 3	17°52	16°59	10°29	n.a.	S 6
M 7	0 49 33	10°44'18	3♓ 8	26°11	18°54	24°24	11° 6	17°29	10°53	27°12	0° 2	17°45	16°56	10°35	n.a.	M 7
T 8	0 53 30	11°44'38	14°59	25°35	20° 6	25° 0	11°19	17°33	10°56	27°12	0° 1	17°35	16°52	10°42	n.a.	T 8
W 9	0 57 26	12°45'00	26°54	24°50	21°18	25°37	11°31	17°37	10°59	27°12	29♓59	17°23	16°49	10°49	n.a.	W 9
T 10	1 1 23	13°45'24	8♈55	23°55	22°30	26°14	11°43	17°42	11° 3	27°12	29°59	17° 9	16°46	10°55	n.a.	T 10
F 11	1 5 19	14°45'49	21° 4	22°52	23°42	26°50	11°55	17°46	11° 6	27°12	29°58	16°54	16°43	11° 2	n.a.	F 11
S 12	1 9 16	15°46'16	3♉22	21°41	24°54	27°27	12° 6	17°50	11° 9	27°D12	29°57	16°40	16°40	11° 9	n.a.	S 12
S 13	1 13 12	16°46'45	15°47	20°25	26° 6	28° 3	12°18	17°55	11°13	27°12	29°55	16°28	16°37	11°15	n.a.	S 13
M14	1 17 9	17°47'16	28°23	19° 5	27°18	28°40	12°30	17°59	11°16	27°12	29°54	16°18	16°33	11°22	n.a.	M14
T 15	1 21 5	18°47'49	11♊ 9	17°45	28°30	29°16	12°42	18° 4	11°19	27°12	29°53	16°12	16°30	11°29	n.a.	T 15
W16	1 25 2	19°48'24	24° 8	16°26	29°42	29°53	12°53	18° 9	11°22	27°12	29°52	16° 8	16°27	11°36	n.a.	W16
T 17	1 28 59	20°49'00	7♋22	15°12	0♐54	0♍29	13° 5	18°14	11°25	27°12	29°51	16° 7	16°24	11°42	n.a.	T 17
F 18	1 32 55	21°49'39	20°52	14° 4	2° 5	1° 6	13°17	18°18	11°29	27°12	29°50	16° 7	16°21	11°49	n.a.	F 18
S 19	1 36 52	22°50'19	4♌42	13° 5	3°17	1°42	13°28	18°23	11°32	27°13	29°49	16° 7	16°17	11°56	n.a.	S 19
S 20	1 40 48	23°51'01	18°52	12°17	4°29	2°18	13°39	18°28	11°35	27°13	29°48	16° 5	16°14	12° 2	n.a.	S 20
M21	1 44 45	24°51'45	3♍21	11°39	5°40	2°55	13°51	18°33	11°38	27°13	29°47	16° 1	16°11	12° 9	n.a.	M21
T 22	1 48 41	25°52'30	18° 7	11°13	6°52	3°31	14° 2	18°39	11°41	27°13	29°46	15°54	16° 8	12°16	n.a.	T 22
W23	1 52 38	26°53'18	3♎ 2	10°59	8° 3	4° 7	14°13	18°44	11°44	27°14	29°45	15°44	16° 5	12°22	n.a.	W23
T 24	1 56 34	27°54'06	17°59	10°D56	9°14	4°44	14°24	18°49	11°47	27°14	29°44	15°33	16° 2	12°29	n.a.	T 24
F 25	2 0 31	28°54'57	2♏49	11° 4	10°26	5°20	14°35	18°54	11°50	27°14	29°43	15°21	15°58	12°36	n.a.	F 25
S 26	2 4 28	29°55'48	17°21	11°22	11°37	5°56	14°46	19° 0	11°52	27°15	29°42	15°10	15°55	12°43	n.a.	S 26
S 27	2 8 24	0♏56'41	1♐30	11°49	12°48	6°32	14°57	19° 5	11°55	27°15	29°41	15° 1	15°52	12°49	n.a.	S 27
M28	2 12 21	1°57'35	15°12	12°24	13°59	7° 8	15° 8	19°11	11°58	27°16	29°40	14°55	15°49	12°56	n.a.	M28
T 29	2 16 17	2°58'30	28°26	13° 7	15°10	7°44	15°19	19°16	12° 1	27°17	29°39	14°52	15°46	13° 3	n.a.	T 29
W30	2 20 14	3°59'27	11♉15	13°57	16°21	8°20	15°29	19°22	12° 3	27°17	29°38	14°D50	15°43	13° 9	n.a.	W30
T 31	2 24 10	5♏ 0'24	23♉41	14♎52	17♐32	8♍56	15♍40	19♐28	12♍ 6	27♉18	29♓37	14♉51	15♉39	13♓16	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	1s54	25s42	2s21	13s 9	3s 1	16s43	1s16	16n 4	1n23	9n 3	1n11	22s32	0n32	8n23	0n44	21s19	0s22	15s51	17s25	22s29	22s35	4s 9			n.a.
W 2	2 18	24 59	1 18	13 13	2 58	17 8	1 19	15 52	1 23	8 58	1 11	22 33	0 32	8 22	0 44	21 19	0 22	15 51	17 25	22 29	22 36	4 6			n.a.
T 3	2 42	23 2	0 13	13 13	2 54	17 33	1 22	15 40	1 24	8 54	1 12	22 33	0 32	8 20	0 44	21 19	0 22	15 51	17 25	22 29	22 36	4 3			n.a.
F 4	3 6	20 4	0n51	13 8	2 49	17 58	1 25	15 29	1 24	8 49	1 12	22 34	0 32	8 19	0 44	21 19	0 22	15 52	17 25	22 29	22 36	4 0			n.a.
S 5	3 30	16 18	1 51	12 59	2 42	18 22	1 28	15 17	1 24	8 45	1 12	22 34	0 32	8 18	0 44	21 19	0 22	15 52	17 25	22 30	22 37	3 57			n.a.
S 6	3 54	11 56	2 47	12 46	2 34	18 45	1 31	15 5	1 25	8 40	1 12	22 35	0 32	8 16	0 44	21 19	0 22	15 53	17 24	22 30	22 37	3 54			n.a.
M 7	4 18	7 8	3 34	12 27	2 24	19 9	1 34	14 53	1 25	8 35	1 12	22 35	0 32	8 15	0 44	21 19	0 22	15 53	17 24	22 31	22 38	3 51			n.a.
T 8	4 42	2 6	4 13	12 3	2 12	19 31	1 37	14 40	1 25	8 31	1 12	22 36	0 32	8 14	0 44	21 19	0 22	15 53	17 24	22 32	22 38	3 48			n.a.
W 9	5 5	3n 2	4 41	11 33	1 58	19 53	1 39	14 28	1 26	8 26	1 12	22 36	0 31	8 12	0 44	21 19	0 22	15 54	17 24	22 34	22 38	3 45			n.a.
T 10	5 29	8 6	4 56	10 59	1 43	20 15	1 42	14 16	1 26	8 22	1 12	22 37	0 31	8 11	0 44	21 19	0 22	15 54	17 24	22 36	22 39	3 42			n.a.
F 11	5 53	12 55	4 59	10 19	1 26	20 36	1 45	14 4	1 26	8 17	1 13	22 37	0 31	8 10	0 44	21 19	0 22	15 54	17 24	22 38	22 39	3 39			n.a.
S 12	6 16	17 16	4 47	9 35	1 8	20 57	1 47	13 51	1 27	8 13	1 13	22 38	0 31	8 9	0 44	21 19	0 22	15 55	17 24	22 40	22 40	3 36			n.a.
S 13	6 40	20 55	4 22	8 48	0 48	21 17	1 50	13 39	1 27	8 8	1 13	22 38	0 31	8 7	0 44	21 19	0 22	15 55	17 24	22 41	22 40	3 33			n.a.
M14	7 3	23 39	3 43	7 59	0 28	21 36	1 52	13 26	1 27	8 4	1 13	22 39	0 31	8 6	0 44	21 19	0 22	15 55	17 24	22 42	22 40	3 30			n.a.
T 15	7 27	25 14	2 53	7 9	0 7	21 55	1 55	13 13	1 28	7 59	1 13	22 40	0 31	8 5	0 44	21 19	0 22	15 56	17 24	22 43	22 41	3 27			n.a.
W16	7 50	25 28	1 53	6 20	0n14	22 13	1 57	13 1	1 28	7 55	1 13	22 40	0 31	8 4	0 44	21 19	0 22	15 56	17 23	22 43	22 41	3 24			n.a.
T 17	8 13	24 16	0 46	5 32	0 34	22 31	2 0	12 48	1 28	7 51	1 13	22 41	0 30	8 3	0 44	21 19	0 22	15 56	17 23	22 44	22 42	3 21			n.a.
F 18	8 36	21 39	0s25	4 48	0 53	22 48	2 2	12 35	1 29	7 46	1 13	22 41	0 30	8 1	0 44	21 19	0 22	15 57	17 23	22 44	22 42	3 17			n.a.
S 19	8 59	17 45	1 37	4 9	1 10	23 5	2 4	12 22	1 29	7 42	1 14	22 42	0 30	8 0	0 44	21 19	0 22	15 57	17 23	22 44	22 42	3 14			n.a.
S 20	9 21	12 45	2 44	3 35	1 26	23 21	2 6	12 9	1 29	7 38	1 14	22 42	0 30	7 59	0 44	21 19	0 22	15 57	17 23	22 44	22 43	3 11			n.a.
M21	9 44	6 57	3 42	3 8	1 40	23 36	2 8	11 57	1 30	7 33	1 14	22 43	0 30	7 58	0 44	21 19	0 22	15 57	17 23	22 44	22 43	3 8			n.a.
T 22	10 6	0 40	4 26	2 46	1 52	23 50	2 10	11 44	1 30	7 29	1 14	22 43	0 30	7 57	0 44	21 19	0 22	15 58	17 22	22 45	22 43	3 5			n.a.
W23	10 29	5s42	4 53	2 31	2 2	24 4	2 12	11 30	1 30	7 25	1 14	22 44	0 30	7 56	0 44	21 19	0 22	15 58	17 22	22 46	22 44	3 2			n.a.
T 24	10 51	11 45	5 0	2 22	2 11	24 18	2 14	11 17	1 31	7 21	1 14	22 45	0 30	7 55	0 44	21 19	0 22	15 58	17 22	22 48	22 44	2 59			n.a.
F 25	11 13	17 4	4 47	2 20	2 17	24 30	2 16	11 4	1 31	7 17	1 14	22 45	0 30	7 53	0 45	21 18	0 22	15 58	17 22	22 49	22 45	2 56			n.a.
S 26	11 34	21 17	4 15	2 22	2 22	24 42	2 17	10 51	1 31	7 12	1 15	22 46	0 29	7 52	0 45	21 18	0 22	15 59	17 22	22 50	22 45	2 53			n.a.
S 27	11 56	24 5	3 28	2 30	2 25	24 53	2 19	10 38	1 31	7 8	1 15	22 46	0 29	7 51	0 45	21 18	0 22	15 59	17 22	22 51	22 45	2 50			n.a.
M28	12 17	25 22	2 30	2 42	2 27	25 4	2 20	10 24	1 32	7 4	1 15	22 47	0 29	7 50	0 45	21 18	0 22	15 59	17 21	22 52	22 46	2 47			n.a.
T 29	12 39	25 8	1 26	2 58	2 28	25 13	2 22	10 11	1 32	7 0	1 15	22 47	0 29	7 49	0 45	21 18	0 22	15 59	17 21	22 52	22 46	2 44			n.a.
W30	13 0	23 33	0 19	3 18	2 28	25 23	2 23	9 58	1 32	6 56	1 15	22 48	0 29	7 48	0 45	21 18	0 22	15 59	17 21	22 52	22 47	2 41			n.a.
T 31	13s20	20s50	0n47	3s41	2n26	25s31	2s24	9n44	1n33	6n52	1n16	22s48	0n29	7n47	0n45	21s18	0s22	15s59	17s21	22s52	22s47	2s38			n.a.

Julian Day Number = 1673483.5, Delta T = 03h19m18s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'42, Lahiri = - 5°45'42 Julian Calendar 1 Oct. 132 BCE == Greg. Calendar 28 Sept. 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

NOVEMBER 132 BCE (-131) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 28 7	6♏ 1'22	5♒50	15♎52	18♐43	9♍32	15♍50	19♐33	12♍ 9	27♑18	29°R36	14°R51	15♑36	13♓23	n.a.	F 1
S 2	2 32 3	7° 2'20	17°47	16°57	19°53	10° 8	16° 1	19°39	12°11	27°19	29♓36	14♑50	15°33	13°29	n.a.	S 2
S 3	2 36 0	8° 3'20	29°38	18° 5	21° 4	10°44	16°11	19°45	12°14	27°20	29°35	14°48	15°30	13°36	n.a.	S 3
M 4	2 39 57	9° 4'20	11♓28	19°17	22°14	11°20	16°21	19°51	12°16	27°21	29°34	14°43	15°27	13°43	n.a.	M 4
T 5	2 43 53	10° 5'21	23°20	20°32	23°24	11°55	16°31	19°57	12°19	27°21	29°33	14°35	15°23	13°50	n.a.	T 5
W 6	2 47 50	11° 6'23	5♈20	21°49	24°35	12°31	16°41	20° 3	12°21	27°22	29°32	14°25	15°20	13°56	n.a.	W 6
T 7	2 51 46	12° 7'26	17°29	23° 8	25°45	13° 7	16°51	20° 9	12°24	27°23	29°31	14°14	15°17	14° 3	n.a.	T 7
F 8	2 55 43	13° 8'29	29°48	24°29	26°55	13°43	17° 1	20°15	12°26	27°24	29°31	14° 2	15°14	14°10	n.a.	F 8
S 9	2 59 39	14° 9'34	12♉20	25°51	28° 5	14°18	17°11	20°21	12°28	27°25	29°30	13°50	15°11	14°16	n.a.	S 9
S 10	3 3 36	15°10'39	25° 4	27°15	29°14	14°54	17°20	20°27	12°30	27°26	29°29	13°40	15° 8	14°23	n.a.	S 10
M11	3 7 32	16°11'45	7♊59	28°40	0♑24	15°29	17°30	20°34	12°33	27°27	29°28	13°32	15° 4	14°30	n.a.	M11
T 12	3 11 29	17°12'52	21° 5	0♏ 6	1°34	16° 5	17°39	20°40	12°35	27°28	29°28	13°27	15° 1	14°36	n.a.	T 12
W13	3 15 26	18°14'00	4♋21	1°33	2°43	16°40	17°48	20°46	12°37	27°29	29°27	13°25	14°58	14°43	n.a.	W13
T 14	3 19 22	19°15'09	17°49	3° 1	3°52	17°16	17°57	20°53	12°39	27°30	29°26	13°D25	14°55	14°50	n.a.	T 14
F 15	3 23 19	20°16'19	1♌27	4°29	5° 1	17°51	18° 6	20°59	12°41	27°31	29°25	13°25	14°52	14°57	n.a.	F 15
S 16	3 27 15	21°17'30	15°18	5°58	6°10	18°26	18°15	21° 5	12°43	27°32	29°25	13°R26	14°49	15° 3	n.a.	S 16
S 17	3 31 12	22°18'42	29°20	7°27	7°19	19° 2	18°24	21°12	12°45	27°33	29°24	13°26	14°45	15°10	n.a.	S 17
M18	3 35 8	23°19'54	13♍33	8°57	8°28	19°37	18°33	21°18	12°47	27°35	29°24	13°24	14°42	15°17	n.a.	M18
T 19	3 39 5	24°21'07	27°56	10°27	9°36	20°12	18°41	21°25	12°48	27°36	29°23	13°20	14°39	15°23	n.a.	T 19
W20	3 43 2	25°22'21	12♎25	11°57	10°45	20°47	18°50	21°32	12°50	27°37	29°22	13°14	14°36	15°30	n.a.	W20
T 21	3 46 58	26°23'36	26°54	13°28	11°53	21°22	18°58	21°38	12°52	27°38	29°22	13° 7	14°33	15°37	n.a.	T 21
F 22	3 50 55	27°24'51	11♏18	14°59	13° 1	21°57	19° 6	21°45	12°53	27°40	29°21	12°59	14°29	15°44	n.a.	F 22
S 23	3 54 51	28°26'07	25°30	16°30	14° 9	22°32	19°14	21°52	12°55	27°41	29°21	12°52	14°26	15°50	n.a.	S 23
S 24	3 58 48	29°27'23	9♐25	18° 2	15°16	23° 7	19°22	21°58	12°57	27°42	29°20	12°46	14°23	15°57	n.a.	S 24
M25	4 2 44	0♐28'39	22°58	19°34	16°24	23°42	19°30	22° 5	12°58	27°44	29°20	12°42	14°20	16° 4	n.a.	M25
T 26	4 6 41	1°29'56	6♑10	21° 6	17°31	24°17	19°38	22°12	13° 0	27°45	29°19	12°40	14°17	16°10	n.a.	T 26
W27	4 10 37	2°31'12	18°58	22°39	18°38	24°51	19°45	22°19	13° 1	27°47	29°19	12°D40	14°14	16°17	n.a.	W27
T 28	4 14 34	3°32'29	1♒27	24°11	19°45	25°26	19°53	22°25	13° 2	27°48	29°18	12°41	14°10	16°24	n.a.	T 28
F 29	4 18 31	4°33'45	13°39	25°44	20°52	26° 0	20° 0	22°32	13° 4	27°50	29°18	12°43	14° 7	16°30	n.a.	F 29
S 30	4 22 27	5♐35'01	25♒39	27♏18	21♑58	26♍35	20♍ 7	22♐39	13♍ 5	27♑51	29♓18	12♑44	14♑ 4	16♓37	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13 s41	17 s16	1n49	4 s 6	2n24	25 s39	2 s26	9n31	1n33	6n48	1n16	22 s49	0n29	7n46	0n45	21 s18	0 s22	16 s 0	17 s20	22 s52	22 s47	2 s35		n.a.
S 2	14 1	13 3	2 46	4 34	2 21	25 45	2 27	9 18	1 33	6 44	1 16	22 50	0 29	7 45	0 45	21 18	0 22	16 0	17 20	22 53	22 48	2 32		n.a.
S 3	14 21	8 23	3 35	5 4	2 17	25 52	2 28	9 4	1 34	6 41	1 16	22 50	0 29	7 44	0 45	21 17	0 22	16 0	17 20	22 53	22 48	2 29		n.a.
M 4	14 41	3 26	4 14	5 35	2 13	25 57	2 28	8 51	1 34	6 37	1 16	22 51	0 29	7 43	0 45	21 17	0 22	16 0	17 20	22 53	22 48	2 26		n.a.
T 5	15 1	1n39	4 43	6 8	2 8	26 2	2 29	8 37	1 34	6 33	1 16	22 51	0 28	7 42	0 45	21 17	0 22	16 0	17 20	22 54	22 49	2 23		n.a.
W 6	15 20	6 43	4 59	6 42	2 3	26 6	2 30	8 23	1 35	6 29	1 17	22 52	0 28	7 42	0 45	21 17	0 22	16 0	17 19	22 55	22 49	2 20		n.a.
T 7	15 39	11 35	5 2	7 17	1 57	26 9	2 30	8 10	1 35	6 25	1 17	22 52	0 28	7 41	0 45	21 17	0 22	16 0	17 19	22 57	22 49	2 17		n.a.
F 8	15 58	16 4	4 52	7 52	1 51	26 11	2 31	7 56	1 35	6 22	1 17	22 53	0 28	7 40	0 45	21 17	0 22	16 0	17 19	22 58	22 50	2 14		n.a.
S 9	16 16	19 56	4 27	8 28	1 45	26 13	2 31	7 43	1 35	6 18	1 17	22 53	0 28	7 39	0 45	21 16	0 22	16 0	17 18	22 59	22 50	2 11		n.a.
S 10	16 34	22 56	3 48	9 5	1 39	26 14	2 31	7 29	1 36	6 15	1 17	22 54	0 28	7 38	0 45	21 16	0 22	16 1	17 18	23 0	22 51	2 8		n.a.
M11	16 52	24 49	2 58	9 42	1 32	26 14	2 32	7 15	1 36	6 11	1 18	22 55	0 28	7 37	0 45	21 16	0 22	16 1	17 18	23 1	22 51	2 5		n.a.
T 12	17 10	25 21	1 57	10 18	1 25	26 14	2 32	7 2	1 36	6 7	1 18	22 55	0 28	7 37	0 45	21 16	0 22	16 1	17 18	23 1	22 51	2 2		n.a.
W13	17 27	24 27	0 48	10 55	1 18	26 12	2 32	6 48	1 37	6 4	1 18	22 56	0 28	7 36	0 45	21 16	0 22	16 1	17 17	23 2	22 52	1 59		n.a.
T 14	17 44	22 7	0 s24	11 32	1 11	26 10	2 31	6 34	1 37	6 1	1 18	22 56	0 28	7 35	0 45	21 15	0 22	16 1	17 17	23 2	22 52	1 56		n.a.
F 15	18 1	18 31	1 35	12 9	1 4	26 8	2 31	6 21	1 37	5 57	1 18	22 57	0 27	7 34	0 45	21 15	0 22	16 1	17 17	23 2	22 52	1 53		n.a.
S 16	18 17	13 51	2 43	12 46	0 57	26 4	2 30	6 7	1 37	5 54	1 19	22 57	0 27	7 34	0 45	21 15	0 22	16 1	17 16	23 1	22 53	1 50		n.a.
S 17	18 33	8 23	3 41	13 22	0 50	26 0	2 30	5 53	1 38	5 51	1 19	22 58	0 27	7 33	0 45	21 15	0 22	16 1	17 16	23 1	22 53	1 47		n.a.
M18	18 49	2 26	4 27	13 58	0 43	25 55	2 29	5 39	1 38	5 47	1 19	22 58	0 27	7 32	0 45	21 14	0 22	16 1	17 16	23 2	22 53	1 44		n.a.
T 19	19 4	3 s42	4 56	14 33	0 36	25 50	2 28	5 26	1 38	5 44	1 19	22 59	0 27	7 31	0 45	21 14	0 22	16 1	17 16	23 2	22 54	1 41		n.a.
W20	19 19	9 40	5 7	15 8	0 29	25 43	2 27	5 12	1 38	5 41	1 19	22 59	0 27	7 31	0 45	21 14	0 22	16 0	17 15	23 3	22 54	1 38		n.a.
T 21	19 34	15 7	4 59	15 43	0 22	25 36	2 26	4 58	1 39	5 38	1 20	23 0	0 27	7 30	0 45	21 14	0 22	16 0	17 15	23 3	22 54	1 35		n.a.
F 22	19 48	19 40	4 31	16 17	0 15	25 28	2 25	4 44	1 39	5 35	1 20	23 0	0 27	7 30	0 45	21 13	0 22	16 0	17 15	23 4	22 55	1 32		n.a.
S 23	20 2	23 1	3 47	16 51	0 7	25 20	2 24	4 31	1 39	5 32	1 20	23 1	0 27	7 29	0 46	21 13	0 22	16 0	17 14	23 5	22 55	1 29		n.a.
S 24	20 16	24 55	2 50	17 23	0 1	25 11	2 22	4 17	1 40	5 29	1 20	23 1	0 27	7 28	0 46	21 13	0 22	16 0	17 14	23 5	22 55	1 26		n.a.
M25	20 29	25 16	1 45	17 56	0 s 6	25 1	2 21	4 3	1 40	5 26	1 21	23 2	0 27	7 28	0 46	21 13	0 22	16 0	17 14	23 6	22 56	1 23		n.a.
T 26	20 42	24 9	0 35	18 27	0 13	24 51	2 19	3 50	1 40	5 23	1 21	23 2	0 26	7 27	0 46	21 12	0 22	16 0	17 13	23 6	22 56	1 20		n.a.
W27	20 54	21 47	0n34	18 58	0 20	24 40	2 17	3 36	1 40	5 20	1 21	23 3	0 26	7 27	0 46	21 12	0 22	16 0	17 13	23 6	22 57	1 17		n.a.
T 28	21 6	18 26	1 40	19 27	0 26	24 28	2 15	3 22	1 41	5 18	1 21	23 3	0 26	7 26	0 46	21 12	0 22	16 0	17 13	23 6	22 57	1 14		n.a.
F 29	21 18	14 21	2 41	19 57	0 33	24 15	2 13	3 9	1 41	5 15	1 22	23 4	0 26	7 26	0 46	21 11	0 22	16 0	17 12	23 6	22 57	1 11		n.a.
S 30	21 s29	9 s47	3n33	20 s25	0 s39	24 s 2	2 s10	2n55	1n41	5n12	1n22	23 s 4	0n26	7n26	0n46	21 s11	0 s22	15 s59	17 s12	23 s 6	22 s58	1 s 8		n.a.

Julian Day Number = 1673514.5, Delta T = 03h19m17s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'38, Lahiri = - 5°45'38 Julian Calendar 1 Nov. 132 BCE == Greg. Calendar 29 Oct. 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 132 BCE
geocentric

DECEMBER 132 BCE (-131) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 26 24	6♐36'16	7♓32	28♏51	23♑ 4	27♍ 9	20♍14	22♐46	13♍ 6	27♑53	29°R17	12°R45	14♑ 1	16♓44	n.a.	S 1
M 2	4 30 20	7°37'32	19°23	0♐25	24°10	27°44	20°21	22°53	13° 7	27°54	29♓17	12♑44	13°58	16°51	n.a.	M 2
T 3	4 34 17	8°38'47	1♈17	1°59	25°16	28°18	20°28	23° 0	13° 8	27°56	29°17	12°41	13°55	16°57	n.a.	T 3
W 4	4 38 13	9°40'02	13°19	3°34	26°21	28°52	20°34	23° 7	13° 9	27°58	29°16	12°37	13°51	17° 4	n.a.	W 4
T 5	4 42 10	10°41'16	25°31	5° 8	27°26	29°27	20°41	23°14	13°10	27°59	29°16	12°32	13°48	17°11	n.a.	T 5
F 6	4 46 6	11°42'30	7♉58	6°44	28°31	0♎ 1	20°47	23°21	13°11	28° 1	29°16	12°27	13°45	17°17	n.a.	F 6
S 7	4 50 3	12°43'44	20°41	8°19	29°36	0°35	20°53	23°28	13°12	28° 3	29°16	12°21	13°42	17°24	n.a.	S 7
S 8	4 54 0	13°44'58	3♊41	9°55	0♒40	1° 9	20°59	23°35	13°13	28° 4	29°15	12°17	13°39	17°31	n.a.	S 8
M 9	4 57 56	14°46'11	16°57	11°31	1°44	1°43	21° 5	23°42	13°13	28° 6	29°15	12°13	13°35	17°38	n.a.	M 9
T 10	5 1 53	15°47'24	0♋28	13° 8	2°48	2°16	21°10	23°49	13°14	28° 8	29°15	12°11	13°32	17°44	n.a.	T 10
W11	5 5 49	16°48'36	14°11	14°45	3°51	2°50	21°16	23°56	13°15	28°10	29°15	12°D11	13°29	17°51	n.a.	W11
T 12	5 9 46	17°49'49	28° 4	16°23	4°54	3°24	21°21	24° 3	13°15	28°12	29°15	12°12	13°26	17°58	n.a.	T 12
F 13	5 13 42	18°51'01	12♌ 5	18° 1	5°57	3°57	21°26	24°10	13°16	28°13	29°15	12°13	13°23	18° 4	n.a.	F 13
S 14	5 17 39	19°52'12	26°11	19°39	6°59	4°31	21°31	24°17	13°16	28°15	29°15	12°15	13°20	18°11	n.a.	S 14
S 15	5 21 36	20°53'24	10♍20	21°18	8° 1	5° 4	21°36	24°24	13°16	28°17	29°15	12°16	13°16	18°18	n.a.	S 15
M16	5 25 32	21°54'35	24°31	22°58	9° 2	5°38	21°41	24°32	13°17	28°19	29°15	12°R16	13°13	18°25	n.a.	M16
T 17	5 29 29	22°55'46	8♎41	24°38	10° 3	6°11	21°45	24°39	13°17	28°21	29°D15	12°15	13°10	18°31	n.a.	T 17
W18	5 33 25	23°56'57	22°47	26°18	11° 4	6°44	21°50	24°46	13°17	28°23	29°15	12°14	13° 7	18°38	n.a.	W18
T 19	5 37 22	24°58'07	6♏49	27°59	12° 4	7°17	21°54	24°53	13°17	28°25	29°15	12°11	13° 4	18°45	n.a.	T 19
F 20	5 41 18	25°59'17	20°42	29°41	13° 4	7°50	21°58	25° 0	13°18	28°27	29°15	12° 9	13° 0	18°51	n.a.	F 20
S 21	5 45 15	27° 0'26	4♐25	1♑23	14° 3	8°23	22° 2	25° 7	13°R18	28°29	29°15	12° 7	12°57	18°58	n.a.	S 21
S 22	5 49 11	28° 1'34	17°54	3° 5	15° 2	8°56	22° 5	25°14	13°18	28°31	29°15	12° 5	12°54	19° 5	n.a.	S 22
M23	5 53 8	29° 2'42	1♑ 8	4°48	16° 0	9°29	22° 9	25°21	13°18	28°33	29°15	12° 4	12°51	19°12	n.a.	M23
T 24	5 57 5	0♑ 3'49	14° 6	6°31	16°58	10° 1	22°12	25°28	13°17	28°35	29°15	12°D 4	12°48	19°18	n.a.	T 24
W25	6 1 1	1° 4'55	26°47	8°15	17°55	10°34	22°15	25°35	13°17	28°37	29°15	12° 4	12°45	19°25	n.a.	W25
T 26	6 4 58	2° 6'00	9♒12	9°59	18°52	11° 6	22°18	25°43	13°17	28°39	29°16	12° 5	12°41	19°32	n.a.	T 26
F 27	6 8 54	3° 7'04	21°23	11°43	19°48	11°39	22°21	25°50	13°17	28°41	29°16	12° 6	12°38	19°38	n.a.	F 27
S 28	6 12 51	4° 8'06	3♓24	13°27	20°43	12°11	22°23	25°57	13°16	28°43	29°16	12° 7	12°35	19°45	n.a.	S 28
S 29	6 16 47	5° 9'07	15°19	15°12	21°38	12°43	22°26	26° 4	13°16	28°45	29°16	12° 8	12°32	19°52	n.a.	S 29
M30	6 20 44	6°10'07	27°10	16°56	22°33	13°15	22°28	26°11	13°16	28°48	29°17	12° 8	12°29	19°59	n.a.	M30
T 31	6 24 40	7♑11'05	9♈ 4	18♑40	23♒26	13♎46	22♍30	26♐18	13♍15	28♑50	29♓17	12°R 8	12♑26	20♓ 5	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21s39	4s54	4n15	20s52	0s45	23s49	2s 8	2n41	1n41	5n10	1n22	23s 5	0n26	7n25	0n46	21s11	0s22	15s59	17s12	23s 6	22s58	1s 5			n.a.
M 2	21 50	0n 8	4 46	21 18	0 51	23 35	2 5	2 28	1 42	5 7	1 22	23 5	0 26	7 25	0 46	21 10	0 22	15 59	17 11	23 6	22 58	1 2			n.a.
T 3	22 0	5 11	5 6	21 44	0 57	23 20	2 3	2 14	1 42	5 5	1 23	23 6	0 26	7 24	0 46	21 10	0 22	15 59	17 11	23 6	22 59	0 59			n.a.
W 4	22 9	10 5	5 12	22 8	1 3	23 5	2 0	2 1	1 42	5 3	1 23	23 6	0 26	7 24	0 46	21 10	0 22	15 59	17 11	23 6	22 59	0 56			n.a.
T 5	22 18	14 41	5 4	22 31	1 8	22 49	1 57	1 47	1 42	5 0	1 23	23 7	0 26	7 24	0 46	21 9	0 22	15 58	17 10	23 7	22 59	0 53			n.a.
F 6	22 27	18 45	4 42	22 53	1 14	22 32	1 53	1 34	1 43	4 58	1 23	23 7	0 26	7 23	0 46	21 9	0 22	15 58	17 10	23 7	23 0	0 50			n.a.
S 7	22 35	22 4	4 5	23 14	1 19	22 16	1 50	1 20	1 43	4 56	1 24	23 7	0 25	7 23	0 46	21 9	0 22	15 58	17 10	23 8	23 0	0 47			n.a.
S 8	22 43	24 19	3 15	23 34	1 24	21 58	1 47	1 7	1 43	4 54	1 24	23 8	0 25	7 23	0 46	21 8	0 22	15 58	17 9	23 8	23 0	0 44			n.a.
M 9	22 50	25 17	2 14	23 53	1 28	21 40	1 43	0 53	1 43	4 52	1 24	23 8	0 25	7 23	0 46	21 8	0 22	15 57	17 9	23 9	23 1	0 41			n.a.
T 10	22 57	24 47	1 4	24 10	1 33	21 22	1 39	0 40	1 44	4 50	1 24	23 9	0 25	7 22	0 46	21 8	0 22	15 57	17 8	23 9	23 1	0 38			n.a.
W11	23 3	22 46	0s11	24 26	1 37	21 3	1 35	0 27	1 44	4 48	1 25	23 9	0 25	7 22	0 46	21 7	0 22	15 57	17 8	23 9	23 1	0 35			n.a.
T 12	23 9	19 22	1 26	24 41	1 41	20 44	1 31	0 13	1 44	4 46	1 25	23 9	0 25	7 22	0 46	21 7	0 22	15 57	17 8	23 9	23 1	0 32			n.a.
F 13	23 14	14 51	2 37	24 54	1 45	20 24	1 27	0 0	1 44	4 44	1 25	23 10	0 25	7 22	0 46	21 7	0 22	15 56	17 7	23 9	23 2	0 29			n.a.
S 14	23 19	9 30	3 39	25 6	1 48	20 4	1 22	0s13	1 44	4 42	1 25	23 10	0 25	7 22	0 46	21 6	0 22	15 56	17 7	23 8	23 2	0 26			n.a.
S 15	23 24	3 39	4 28	25 16	1 51	19 43	1 18	0 26	1 45	4 41	1 26	23 11	0 25	7 22	0 46	21 6	0 22	15 56	17 7	23 8	23 2	0 23			n.a.
M16	23 28	2s23	5 0	25 25	1 54	19 23	1 13	0 40	1 45	4 39	1 26	23 11	0 25	7 21	0 46	21 5	0 22	15 55	17 6	23 8	23 3	0 20			n.a.
T 17	23 31	8 17	5 15	25 32	1 56	19 1	1 8	0 53	1 45	4 37	1 26	23 11	0 25	7 21	0 47	21 5	0 22	15 55	17 6	23 8	23 3	0 17			n.a.
W18	23 34	13 45	5 10	25 38	1 59	18 40	1 3	1 6	1 45	4 36	1 27	23 12	0 25	7 21	0 47	21 5	0 22	15 55	17 6	23 9	23 3	0 14			n.a.
T 19	23 37	18 27	4 47	25 42	2 0	18 18	0 58	1 19	1 45	4 35	1 27	23 12	0 25	7 21	0 47	21 4	0 22	15 54	17 5	23 9	23 4	0 11			n.a.
F 20	23 39	22 6	4 7	25 44	2 2	17 55	0 53	1 32	1 46	4 33	1 27	23 12	0 25	7 21	0 47	21 4	0 22	15 54	17 5	23 9	23 4	0 9			n.a.
S 21	23 41	24 26	3 13	25 45	2 3	17 33	0 47	1 45	1 46	4 32	1 27	23 13	0 24	7 21	0 47	21 3	0 22	15 54	17 4	23 9	23 4	0 6			n.a.
S 22	23 42	25 18	2 10	25 44	2 3	17 10	0 41	1 58	1 46	4 31	1 28	23 13	0 24	7 21	0 47	21 3	0 22	15 53	17 4	23 9	23 5	0 3			n.a.
M23	23 42	24 42	1 0	25 41	2 3	16 47	0 35	2 10	1 46	4 30	1 28	23 13	0 24	7 21	0 47	21 3	0 22	15 53	17 4	23 9	23 5	0n 0			n.a.
T 24	23 43	22 46	0n11	25 36	2 3	16 24	0 29	2 23	1 46	4 29	1 28	23 14	0 24	7 22	0 47	21 2	0 22	15 53	17 3	23 9	23 5	0 3			n.a.
W25	23 42	19 43	1 21	25 29	2 2	16 0	0 23	2 36	1 47	4 28	1 29	23 14	0 24	7 22	0 47	21 2	0 22	15 52	17 3	23 9	23 6	0 6			n.a.
T 26	23 42	15 50	2 25	25 20	2 0	15 36	0 17	2 48	1 47	4 27	1 29	23 14	0 24	7 22	0 47	21 1	0 22	15 52	17 3	23 9	23 6	0 9			n.a.
F 27	23 40	11 22	3 21	25 9	1 59	15 12	0 10	3 1	1 47	4 26	1 29	23 15	0 24	7 22	0 47	21 1	0 22	15 51	17 2	23 9	23 6	0 12			n.a.
S 28	23 39	6 31	4 8	24 57	1 56	14 48	0 3	3 14	1 47	4 25	1 29	23 15	0 24	7 22	0 47	21 1	0 22	15 51	17 2	23 9	23 6	0 15			n.a.
S 29	23 37	1 30	4 43	24 42	1 53	14 24	0n 4	3 26	1 47	4 25	1 30	23 15	0 24	7 22	0 47	21 0	0 22	15 50	17 1	23 9	23 7	0 18			n.a.
M30	23 34	3n32	5 6	24 26	1 49	13 59	0 11	3 38	1 47	4 24	1 30	23 16	0 24	7 22	0 47	21 0	0 22	15 50	17 1	23 9	23 7	0 21			n.a.
T 31	23s31	8n28	5n17	24s 7	1s45	13s35	0n18	3s51	1n48	4n23	1n30	23s16	0n24	7n23	0n47	20s59	0s22	15s49	17s 1	23s 9	23s 7	0n24			n.a.

Julian Day Number = 1673544.5, Delta T = 03h19m16s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'34, Lahiri = - 5°45'34 Julian Calendar 1 Dec. 132 BCE == Greg. Calendar 28 Nov. 132 BCE

The year -131 astronomical counting style corresponds to year 132 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

JANUARY 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 28 37	8♑12'02	21♈ 4	20♑24	24♒19	14♎18	22♏32	26♐25	13°R14	28♑52	29♓17	12°R 8	12♑22	20♓12	n.a.	W 1
T 2	6 32 34	9°12'58	3♉16	22° 7	25°11	14°50	22°33	26°32	13♏14	28°54	29°18	12♑ 8	12°19	20°19	n.a.	T 2
F 3	6 36 30	10°13'52	15°44	23°49	26° 2	15°21	22°35	26°39	13°13	28°56	29°18	12° 8	12°16	20°25	n.a.	F 3
S 4	6 40 27	11°14'45	28°31	25°30	26°53	15°53	22°36	26°46	13°12	28°58	29°18	12° 7	12°13	20°32	n.a.	S 4
S 5	6 44 23	12°15'36	11♊39	27°10	27°42	16°24	22°37	26°53	13°12	29° 1	29°19	12°D 7	12°10	20°39	n.a.	S 5
M 6	6 48 20	13°16'26	25° 9	28°47	28°31	16°55	22°38	27° 0	13°11	29° 3	29°19	12° 7	12° 6	20°46	n.a.	M 6
T 7	6 52 16	14°17'15	8♋59	0♒22	29°19	17°26	22°39	27° 7	13°10	29° 5	29°20	12°R 8	12° 3	20°52	n.a.	T 7
W 8	6 56 13	15°18'02	23° 8	1°55	0♓ 6	17°57	22°39	27°13	13° 9	29° 7	29°20	12° 8	12° 0	20°59	n.a.	W 8
T 9	7 0 10	16°18'47	7♌31	3°23	0°52	18°27	22°39	27°20	13° 8	29° 9	29°21	12° 7	11°57	21° 6	n.a.	T 9
F 10	7 4 6	17°19'31	22° 2	4°48	1°37	18°58	22°R39	27°27	13° 7	29°12	29°21	12° 7	11°54	21°12	n.a.	F 10
S 11	7 8 3	18°20'14	6♍35	6° 8	2°21	19°28	22°39	27°34	13° 6	29°14	29°22	12° 6	11°51	21°19	n.a.	S 11
S 12	7 11 59	19°20'56	21° 5	7°22	3° 4	19°59	22°39	27°41	13° 5	29°16	29°22	12° 5	11°47	21°26	n.a.	S 12
M13	7 15 56	20°21'36	5♎28	8°30	3°46	20°29	22°39	27°48	13° 4	29°18	29°23	12° 5	11°44	21°33	n.a.	M13
T 14	7 19 52	21°22'16	19°39	9°31	4°26	20°59	22°38	27°54	13° 2	29°21	29°23	12°D 4	11°41	21°39	n.a.	T 14
W15	7 23 49	22°22'54	3♏37	10°25	5° 6	21°29	22°37	28° 1	13° 1	29°23	29°24	12° 5	11°38	21°46	n.a.	W15
T 16	7 27 45	23°23'30	17°22	11°10	5°44	21°58	22°36	28° 8	13° 0	29°25	29°25	12° 5	11°35	21°53	n.a.	T 16
F 17	7 31 42	24°24'06	0♐52	11°47	6°21	22°28	22°35	28°14	12°58	29°27	29°25	12° 6	11°32	21°59	n.a.	F 17
S 18	7 35 39	25°24'40	14° 8	12°13	6°56	22°57	22°34	28°21	12°57	29°30	29°26	12° 8	11°28	22° 6	n.a.	S 18
S 19	7 39 35	26°25'12	27°11	12°30	7°31	23°26	22°32	28°27	12°55	29°32	29°27	12° 8	11°25	22°13	n.a.	S 19
M20	7 43 32	27°25'43	10♑ 1	12°R37	8° 3	23°55	22°30	28°34	12°54	29°34	29°28	12°R 9	11°22	22°20	n.a.	M20
T 21	7 47 28	28°26'13	22°39	12°33	8°34	24°24	22°28	28°41	12°52	29°37	29°28	12° 9	11°19	22°26	n.a.	T 21
W22	7 51 25	29°26'40	5♒ 5	12°20	9° 4	24°53	22°26	28°47	12°51	29°39	29°29	12° 7	11°16	22°33	n.a.	W22
T 23	7 55 21	0♒27'06	17°21	11°56	9°32	25°21	22°24	28°53	12°49	29°41	29°30	12° 5	11°13	22°40	n.a.	T 23
F 24	7 59 18	1°27'30	29°27	11°23	9°58	25°49	22°21	29° 0	12°47	29°43	29°31	12° 2	11° 9	22°46	n.a.	F 24
S 25	8 3 14	2°27'52	11♓26	10°42	10°22	26°17	22°18	29° 6	12°46	29°46	29°31	11°59	11° 6	22°53	n.a.	S 25
S 26	8 7 11	3°28'12	23°20	9°54	10°45	26°45	22°16	29°12	12°44	29°48	29°32	11°55	11° 3	23° 0	n.a.	S 26
M27	8 11 8	4°28'29	5♈11	9° 0	11° 6	27°13	22°12	29°19	12°42	29°50	29°33	11°52	11° 0	23° 7	n.a.	M27
T 28	8 15 4	5°28'45	17° 4	8° 1	11°24	27°40	22° 9	29°25	12°40	29°53	29°34	11°50	10°57	23°13	n.a.	T 28
W29	8 19 1	6°28'59	29° 2	6°59	11°41	28° 7	22° 6	29°31	12°38	29°55	29°35	11°49	10°53	23°20	n.a.	W29
T 30	8 22 57	7°29'10	11♉11	5°55	11°56	28°34	22° 2	29°37	12°36	29°57	29°36	11°D48	10°50	23°27	n.a.	T 30
F 31	8 26 54	8♒29'20	23♉34	4♒51	12♓ 8	29♎ 1	21♏58	29♐43	12♏35	29♑59	29♓37	11♑49	10♑47	23♓33	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	23s27	13n 8	5n13	23s47	1s39	13s10	0n25	4s 3	1n48	4n23	1n31	23s16	0n24	7n23	0n47	20s59	0s22	15s49	17s 0	23s 9	23s 8	0n27			n.a.
T 2	23 23	17 22	4 56	23 25	1 33	12 45	0 33	4 15	1 48	4 23	1 31	23 16	0 24	7 23	0 47	20 58	0 22	15 49	17 0	23 9	23 8	0 30			n.a.
F 3	23 19	20 57	4 24	23 1	1 27	12 21	0 41	4 27	1 48	4 22	1 31	23 17	0 24	7 24	0 47	20 58	0 22	15 48	17 0	23 9	23 8	0 33			n.a.
S 4	23 14	23 37	3 39	22 35	1 19	11 56	0 49	4 39	1 48	4 22	1 31	23 17	0 23	7 24	0 47	20 57	0 22	15 48	16 59	23 9	23 9	0 36			n.a.
S 5	23 8	25 6	2 41	22 8	1 11	11 31	0 57	4 51	1 48	4 22	1 32	23 17	0 23	7 24	0 47	20 57	0 22	15 47	16 59	23 9	23 9	0 39			n.a.
M 6	23 2	25 10	1 33	21 39	1 2	11 6	1 5	5 3	1 48	4 22	1 32	23 17	0 23	7 25	0 47	20 57	0 22	15 47	16 59	23 9	23 9	0 42			n.a.
T 7	22 56	23 42	0 17	21 9	0 52	10 42	1 14	5 15	1 48	4 22	1 32	23 17	0 23	7 25	0 47	20 56	0 22	15 46	16 58	23 9	23 9	0 45			n.a.
W 8	22 49	20 42	1s 1	20 38	0 42	10 17	1 22	5 27	1 49	4 22	1 33	23 18	0 23	7 25	0 47	20 56	0 22	15 46	16 58	23 9	23 10	0 48			n.a.
T 9	22 42	16 24	2 16	20 6	0 30	9 52	1 31	5 39	1 49	4 22	1 33	23 18	0 23	7 26	0 47	20 55	0 22	15 45	16 58	23 9	23 10	0 51			n.a.
F 10	22 34	11 7	3 24	19 34	0 17	9 28	1 40	5 50	1 49	4 22	1 33	23 18	0 23	7 26	0 48	20 55	0 22	15 45	16 57	23 9	23 10	0 54			n.a.
S 11	22 26	5 12	4 18	19 1	0 4	9 3	1 49	6 2	1 49	4 22	1 33	23 18	0 23	7 27	0 48	20 54	0 22	15 44	16 57	23 9	23 11	0 57			n.a.
S 12	22 18	0s57	4 56	18 29	0n10	8 39	1 59	6 13	1 49	4 23	1 34	23 18	0 23	7 27	0 48	20 54	0 22	15 43	16 56	23 9	23 11	1 0			n.a.
M13	22 9	7 0	5 15	17 57	0 24	8 15	2 8	6 25	1 49	4 23	1 34	23 19	0 23	7 28	0 48	20 53	0 22	15 43	16 56	23 9	23 11	1 2			n.a.
T 14	22 0	12 36	5 14	17 26	0 40	7 51	2 18	6 36	1 49	4 24	1 34	23 19	0 23	7 28	0 48	20 53	0 22	15 42	16 56	23 9	23 11	1 5			n.a.
W15	21 50	17 28	4 55	16 56	0 56	7 28	2 28	6 47	1 49	4 24	1 35	23 19	0 23	7 29	0 48	20 52	0 22	15 42	16 55	23 9	23 12	1 8			n.a.
T 16	21 40	21 20	4 19	16 28	1 12	7 4	2 37	6 58	1 49	4 25	1 35	23 19	0 23	7 29	0 48	20 52	0 22	15 41	16 55	23 9	23 12	1 11			n.a.
F 17	21 29	23 58	3 29	16 2	1 28	6 41	2 48	7 9	1 49	4 26	1 35	23 19	0 23	7 30	0 48	20 51	0 22	15 41	16 55	23 9	23 12	1 14			n.a.
S 18	21 18	25 13	2 29	15 39	1 45	6 19	2 58	7 20	1 49	4 27	1 35	23 19	0 23	7 30	0 48	20 51	0 22	15 40	16 54	23 9	23 13	1 17			n.a.
S 19	21 6	25 3	1 22	15 18	2 2	5 56	3 8	7 31	1 49	4 28	1 36	23 20	0 23	7 31	0 48	20 51	0 22	15 40	16 54	23 9	23 13	1 20			n.a.
M20	20 55	23 31	0 12	15 1	2 18	5 34	3 19	7 42	1 49	4 28	1 36	23 20	0 23	7 32	0 48	20 50	0 22	15 39	16 54	23 9	23 13	1 23			n.a.
T 21	20 43	20 50	0n58	14 46	2 34	5 13	3 30	7 52	1 49	4 30	1 36	23 20	0 22	7 32	0 48	20 50	0 22	15 38	16 53	23 9	23 13	1 26			n.a.
W22	20 30	17 13	2 3	14 36	2 49	4 51	3 41	8 3	1 49	4 31	1 37	23 20	0 22	7 33	0 48	20 49	0 22	15 38	16 53	23 9	23 14	1 29			n.a.
T 23	20 17	12 55	3 2	14 29	3 2	4 31	3 52	8 13	1 49	4 32	1 37	23 20	0 22	7 34	0 48	20 49	0 22	15 37	16 53	23 9	23 14	1 32			n.a.
F 24	20 4	8 10	3 52	14 26	3 15	4 11	4 3	8 24	1 49	4 33	1 37	23 20	0 22	7 34	0 48	20 48	0 22	15 37	16 53	23 10	23 14	1 35			n.a.
S 25	19 50	3 11	4 31	14 27	3 26	3 51	4 14	8 34	1 49	4 34	1 37	23 20	0 22	7 35	0 48	20 48	0 22	15 36	16 52	23 10	23 14	1 38			n.a.
S 26	19 36	1n52	4 58	14 31	3 35	3 32	4 25	8 44	1 49	4 36	1 38	23 20	0 22	7 36	0 48	20 47	0 22	15 35	16 52	23 10	23 15	1 41			n.a.
M27	19 22	6 51	5 12	14 38	3 42	3 13	4 37	8 54	1 49	4 37	1 38	23 20	0 22	7 36	0 48	20 47	0 22	15 35	16 52	23 10	23 15	1 44			n.a.
T 28	19 7	11 35	5 13	14 49	3 47	2 56	4 48	9 4	1 49	4 39	1 38	23 21	0 22	7 37	0 48	20 46	0 22	15 34	16 51	23 11	23 15	1 46			n.a.
W29	18 52	15 55	5 0	15 2	3 50	2 39	5 0	9 14	1 49	4 40	1 38	23 21	0 22	7 38	0 48	20 46	0 22	15 33	16 51	23 11	23 16	1 49			n.a.
T 30	18 36	19 41	4 34	15 17	3 51	2 22	5 11	9 24	1 49	4 42	1 39	23 21	0 22	7 39	0 48	20 45	0 22	15 33	16 51	23 11	23 16	1 52			n.a.
F 31	18s21	22n40	3n55	15s34	3n49	2s 7	5n23	9s33	1n49	4n44	1n39	23s21	0n22	7n39	0n48	20s45	0s22	15s32	16s50	23s11	23s16	1n55			n.a.

Julian Day Number = 1673575.5, Delta T = 03h19m15s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'30, Lahiri = - 5°45'29 Julian Calendar 1 Jan. 131 BCE == Greg. Calendar 29 Dec. 132 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

FEBRUARY 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 30 50	9♒29'27	6♊18	3°R49	12♓18	29♎27	21°R54	29♐49	12°R33	0♒ 2	29♓38	11♑51	10♑44	23♓40	n.a.	S 1
S 2	8 34 47	10°29'32	19°24	2♒50	12°26	29°54	21♏50	29°55	12♏31	0° 4	29°39	11°52	10°41	23°47	n.a.	S 2
M 3	8 38 43	11°29'34	2♋56	1°55	12°32	0♏20	21°46	0♑ 1	12°28	0° 6	29°40	11°54	10°38	23°54	n.a.	M 3
T 4	8 42 40	12°29'35	16°55	1° 5	12°35	0°46	21°42	0° 7	12°26	0° 8	29°41	11°R54	10°34	24° 0	n.a.	T 4
W 5	8 46 37	13°29'33	1♌18	0°20	12°R36	1°11	21°37	0°13	12°24	0°11	29°42	11°52	10°31	24° 7	n.a.	W 5
T 6	8 50 33	14°29'30	16° 2	29♑41	12°34	1°36	21°32	0°19	12°22	0°13	29°43	11°50	10°28	24°14	n.a.	T 6
F 7	8 54 30	15°29'24	0♏59	29° 9	12°30	2° 1	21°27	0°24	12°20	0°15	29°44	11°45	10°25	24°20	n.a.	F 7
S 8	8 58 26	16°29'16	16° 0	28°44	12°23	2°26	21°22	0°30	12°18	0°17	29°45	11°40	10°22	24°27	n.a.	S 8
S 9	9 2 23	17°29'06	0♎57	28°25	12°14	2°51	21°17	0°36	12°15	0°19	29°46	11°35	10°18	24°34	n.a.	S 9
M10	9 6 19	18°28'55	15°41	28°12	12° 2	3°15	21°12	0°41	12°13	0°22	29°47	11°30	10°15	24°41	n.a.	M10
T 11	9 10 16	19°28'41	0♏ 6	28°D 7	11°48	3°39	21° 6	0°47	12°11	0°24	29°48	11°27	10°12	24°47	n.a.	T 11
W12	9 14 12	20°28'26	14° 9	28° 7	11°31	4° 3	21° 1	0°52	12° 9	0°26	29°49	11°26	10° 9	24°54	n.a.	W12
T 13	9 18 9	21°28'10	27°50	28°14	11°12	4°26	20°55	0°58	12° 6	0°28	29°50	11°D26	10° 6	25° 1	n.a.	T 13
F 14	9 22 5	22°27'51	11♐ 9	28°26	10°50	4°49	20°49	1° 3	12° 4	0°30	29°51	11°27	10° 3	25° 8	n.a.	F 14
S 15	9 26 2	23°27'31	24°10	28°43	10°27	5°12	20°43	1° 8	12° 1	0°32	29°52	11°28	9°59	25°14	n.a.	S 15
S 16	9 29 59	24°27'08	6♑54	29° 6	10° 1	5°34	20°37	1°13	11°59	0°35	29°54	11°R29	9°56	25°21	n.a.	S 16
M17	9 33 55	25°26'44	19°25	29°34	9°33	5°56	20°31	1°18	11°57	0°37	29°55	11°29	9°53	25°28	n.a.	M17
T 18	9 37 52	26°26'18	1♒46	0♒ 6	9° 3	6°18	20°24	1°24	11°54	0°39	29°56	11°27	9°50	25°34	n.a.	T 18
W19	9 41 48	27°25'50	13°57	0°42	8°32	6°39	20°18	1°29	11°52	0°41	29°57	11°23	9°47	25°41	n.a.	W19
T 20	9 45 45	28°25'20	26° 2	1°23	7°58	7° 0	20°11	1°33	11°49	0°43	29°58	11°16	9°44	25°48	n.a.	T 20
F 21	9 49 41	29°24'47	8♓ 1	2° 7	7°24	7°21	20° 4	1°38	11°47	0°45	29°59	11° 8	9°40	25°55	n.a.	F 21
S 22	9 53 38	0♓24'12	19°55	2°54	6°48	7°41	19°58	1°43	11°44	0°47	0♈ 1	10°58	9°37	26° 1	n.a.	S 22
S 23	9 57 34	1°23'36	1♈48	3°45	6°12	8° 1	19°51	1°48	11°42	0°49	0° 2	10°48	9°34	26° 8	n.a.	S 23
M24	10 1 31	2°22'56	13°39	4°40	5°34	8°21	19°44	1°52	11°39	0°51	0° 3	10°39	9°31	26°15	n.a.	M24
T 25	10 5 28	3°22'15	25°32	5°37	4°56	8°40	19°37	1°57	11°37	0°53	0° 5	10°31	9°28	26°21	n.a.	T 25
W26	10 9 24	4°21'31	7♉30	6°37	4°18	8°58	19°30	2° 1	11°34	0°55	0° 6	10°25	9°24	26°28	n.a.	W26
T 27	10 13 21	5°20'45	19°37	7°39	3°40	9°17	19°22	2° 6	11°31	0°57	0° 7	10°21	9°21	26°35	n.a.	T 27
F 28	10 17 17	6♓19'56	1♊57	8♒44	3♓ 3	9♏34	19♏15	2♑10	11♏29	0♒59	0♈ 8	10°D20	9♑18	26♓42	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s 5	24n36	3n 3	15s52	3n46	1s52	5n35	9s43	1n49	4n46	1n39	23s21	0n22	7n40	0n48	20s44	0s22	15s32	16s50	23s11	23s16	1n58		n.a.
S 2	17 48	25 17	2 0	16 11	3 40	1 39	5 46	9 52	1 49	4 47	1 39	23 21	0 22	7 41	0 48	20 44	0 22	15 31	16 50	23 10	23 17	2 1		n.a.
M 3	17 32	24 30	0 49	16 30	3 33	1 26	5 58	10 2	1 48	4 49	1 40	23 21	0 22	7 42	0 48	20 43	0 22	15 30	16 50	23 10	23 17	2 4		n.a.
T 4	17 15	22 10	0s27	16 50	3 24	1 14	6 9	10 11	1 48	4 51	1 40	23 21	0 22	7 43	0 48	20 43	0 22	15 30	16 49	23 10	23 17	2 7		n.a.
W 5	16 58	18 24	1 44	17 9	3 14	1 3	6 20	10 20	1 48	4 53	1 40	23 21	0 22	7 43	0 48	20 42	0 22	15 29	16 49	23 10	23 17	2 10		n.a.
T 6	16 40	13 25	2 56	17 28	3 3	0 54	6 32	10 29	1 48	4 56	1 40	23 21	0 22	7 44	0 48	20 42	0 22	15 28	16 49	23 11	23 18	2 13		n.a.
F 7	16 22	7 34	3 56	17 47	2 51	0 45	6 43	10 38	1 48	4 58	1 41	23 21	0 22	7 45	0 48	20 42	0 22	15 28	16 49	23 11	23 18	2 16		n.a.
S 8	16 4	1 17	4 41	18 4	2 38	0 38	6 53	10 46	1 48	5 0	1 41	23 21	0 21	7 46	0 48	20 41	0 22	15 27	16 48	23 12	23 18	2 18		n.a.
S 9	15 46	5s 3	5 6	18 21	2 25	0 32	7 4	10 55	1 47	5 2	1 41	23 21	0 21	7 47	0 48	20 41	0 23	15 26	16 48	23 12	23 18	2 21		n.a.
M10	15 28	11 0	5 10	18 37	2 11	0 27	7 14	11 4	1 47	5 4	1 41	23 21	0 21	7 48	0 48	20 40	0 23	15 26	16 48	23 12	23 19	2 24		n.a.
T 11	15 9	16 13	4 55	18 51	1 58	0 23	7 24	11 12	1 47	5 7	1 41	23 21	0 21	7 49	0 48	20 40	0 23	15 25	16 48	23 13	23 19	2 27		n.a.
W12	14 50	20 25	4 22	19 5	1 44	0 21	7 33	11 20	1 47	5 9	1 42	23 21	0 21	7 50	0 48	20 39	0 23	15 24	16 47	23 13	23 19	2 30		n.a.
T 13	14 30	23 23	3 35	19 17	1 30	0 20	7 42	11 29	1 46	5 12	1 42	23 21	0 21	7 51	0 48	20 39	0 23	15 24	16 47	23 13	23 19	2 33		n.a.
F 14	14 11	24 58	2 37	19 28	1 17	0 20	7 50	11 37	1 46	5 14	1 42	23 21	0 21	7 52	0 48	20 38	0 23	15 23	16 47	23 13	23 20	2 36		n.a.
S 15	13 51	25 7	1 33	19 37	1 3	0 22	7 58	11 45	1 46	5 17	1 42	23 21	0 21	7 52	0 48	20 38	0 23	15 23	16 47	23 13	23 20	2 39		n.a.
S 16	13 31	23 57	0 25	19 45	0 50	0 25	8 5	11 52	1 45	5 19	1 42	23 21	0 21	7 53	0 48	20 37	0 23	15 22	16 46	23 12	23 20	2 42		n.a.
M17	13 11	21 35	0n43	19 52	0 37	0 30	8 12	12 0	1 45	5 22	1 42	23 21	0 21	7 54	0 49	20 37	0 23	15 21	16 46	23 13	23 20	2 45		n.a.
T 18	12 51	18 15	1 47	19 58	0 25	0 35	8 17	12 8	1 45	5 25	1 43	23 21	0 21	7 55	0 49	20 37	0 23	15 21	16 46	23 13	23 21	2 47		n.a.
W19	12 30	14 11	2 46	20 2	0 12	0 43	8 22	12 15	1 44	5 28	1 43	23 21	0 21	7 56	0 49	20 36	0 23	15 20	16 46	23 13	23 21	2 50		n.a.
T 20	12 9	9 35	3 37	20 4	0 1	0 51	8 26	12 22	1 44	5 30	1 43	23 21	0 21	7 57	0 49	20 36	0 23	15 19	16 46	23 14	23 21	2 53		n.a.
F 21	11 48	4 41	4 17	20 5	0s11	1 1	8 30	12 30	1 43	5 33	1 43	23 21	0 21	7 58	0 49	20 35	0 23	15 19	16 45	23 14	23 21	2 56		n.a.
S 22	11 27	0n20	4 46	20 5	0 22	1 12	8 32	12 37	1 43	5 36	1 43	23 21	0 21	7 59	0 49	20 35	0 23	15 18	16 45	23 15	23 21	2 59		n.a.
S 23	11 6	5 20	5 2	20 3	0 32	1 24	8 33	12 44	1 42	5 39	1 43	23 21	0 21	8 0	0 49	20 34	0 23	15 17	16 45	23 16	23 22	3 2		n.a.
M24	10 45	10 7	5 5	20 0	0 42	1 37	8 34	12 50	1 42	5 42	1 44	23 21	0 21	8 1	0 49	20 34	0 23	15 17	16 45	23 17	23 22	3 5		n.a.
T 25	10 23	14 33	4 56	19 55	0 52	1 51	8 33	12 57	1 41	5 45	1 44	23 21	0 21	8 2	0 49	20 34	0 23	15 16	16 45	23 17	23 22	3 8		n.a.
W26	10 1	18 27	4 33	19 49	1 1	2 6	8 32	13 4	1 41	5 48	1 44	23 21	0 21	8 3	0 49	20 33	0 23	15 15	16 45	23 18	23 22	3 10		n.a.
T 27	9 39	21 38	3 57	19 41	1 10	2 22	8 30	13 10	1 40	5 51	1 44	23 21	0 21	8 4	0 49	20 33	0 23	15 15	16 44	23 18	23 23	3 13		n.a.
F 28	9s17	23n54	3n11	19s32	1s18	2s38	8n26	13s16	1n40	5n54	1n44	23s21	0n20	8n 5	0n49	20s32	0s23	15s14	16s44	23s18	23s23	3n16		n.a.

Julian Day Number = 1673606.5, Delta T = 03h19m14s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'26, Lahiri = - 5°45'25 Julian Calendar 1 Feb. 131 BCE == Greg. Calendar 29 Jan. 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

MARCH 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 21 14	7♓19'05	14♊34	9♒52	2°R26	9♏52	19°R 8	2♑15	11°R26	1♒ 1	0♈10	10♑20	9♑15	26♓48	n.a.	S 1
S 2	10 25 10	8°18'12	27°34	11° 1	1♓49	10° 9	19♍ 0	2°19	11♍24	1° 3	0°11	10°21	9°12	26°55	n.a.	S 2
M 3	10 29 7	9°17'16	11♋ 0	12°13	1°14	10°25	18°53	2°23	11°21	1° 5	0°12	10°R21	9° 9	27° 2	n.a.	M 3
T 4	10 33 3	10°16'18	24°55	13°27	0°40	10°41	18°45	2°27	11°19	1° 7	0°14	10°20	9° 5	27° 8	n.a.	T 4
W 5	10 37 0	11°15'18	9♌18	14°44	0° 7	10°57	18°38	2°31	11°16	1° 8	0°15	10°17	9° 2	27°15	n.a.	W 5
T 6	10 40 57	12°14'15	24° 7	16° 2	29♒36	11°12	18°30	2°35	11°13	1°10	0°16	10°12	8°59	27°22	n.a.	T 6
F 7	10 44 53	13°13'10	9♍16	17°22	29° 7	11°27	18°23	2°39	11°11	1°12	0°18	10° 4	8°56	27°29	n.a.	F 7
S 8	10 48 50	14°12'02	24°34	18°43	28°39	11°41	18°15	2°42	11° 8	1°14	0°19	9°55	8°53	27°35	n.a.	S 8
S 9	10 52 46	15°10'53	9♎50	20° 7	28°14	11°55	18° 7	2°46	11° 6	1°16	0°20	9°45	8°50	27°42	n.a.	S 9
M10	10 56 43	16° 9'41	24°53	21°32	27°51	12° 8	18° 0	2°49	11° 3	1°17	0°22	9°36	8°46	27°49	n.a.	M10
T 11	11 0 39	17° 8'28	9♏35	22°59	27°31	12°20	17°52	2°53	11° 1	1°19	0°23	9°29	8°43	27°56	n.a.	T 11
W12	11 4 36	18° 7'13	23°51	24°28	27°12	12°32	17°44	2°56	10°58	1°21	0°24	9°25	8°40	28° 2	n.a.	W12
T 13	11 8 32	19° 5'57	7♐39	25°59	26°56	12°44	17°36	3° 0	10°55	1°22	0°26	9°22	8°37	28° 9	n.a.	T 13
F 14	11 12 29	20° 4'38	20°59	27°31	26°43	12°55	17°29	3° 3	10°53	1°24	0°27	9°D22	8°34	28°16	n.a.	F 14
S 15	11 16 25	21° 3'18	3♑56	29° 4	26°32	13° 5	17°21	3° 6	10°50	1°26	0°28	9°R22	8°30	28°22	n.a.	S 15
S 16	11 20 22	22° 1'56	16°32	0♓40	26°23	13°15	17°13	3° 9	10°48	1°27	0°30	9°22	8°27	28°29	n.a.	S 16
M17	11 24 19	23° 0'32	28°53	2°17	26°17	13°24	17° 6	3°12	10°45	1°29	0°31	9°20	8°24	28°36	n.a.	M17
T 18	11 28 15	23°59'07	11♒ 3	3°56	26°14	13°32	16°58	3°15	10°43	1°31	0°33	9°17	8°21	28°43	n.a.	T 18
W19	11 32 12	24°57'39	23° 4	5°36	26°D12	13°40	16°51	3°18	10°40	1°32	0°34	9°10	8°18	28°49	n.a.	W19
T 20	11 36 8	25°56'10	5♓ 1	7°18	26°14	13°47	16°43	3°20	10°38	1°34	0°35	9° 0	8°15	28°56	n.a.	T 20
F 21	11 40 5	26°54'38	16°54	9° 1	26°17	13°54	16°35	3°23	10°35	1°35	0°37	8°48	8°11	29° 3	n.a.	F 21
S 22	11 44 1	27°53'05	28°46	10°47	26°23	13°59	16°28	3°26	10°33	1°37	0°38	8°34	8° 8	29° 9	n.a.	S 22
S 23	11 47 58	28°51'30	10♈38	12°33	26°31	14° 5	16°21	3°28	10°31	1°38	0°40	8°20	8° 5	29°16	n.a.	S 23
M24	11 51 54	29°49'53	22°31	14°22	26°41	14° 9	16°13	3°30	10°28	1°39	0°41	8° 7	8° 2	29°23	n.a.	M24
T 25	11 55 51	0♈48'14	4♉28	16°12	26°53	14°13	16° 6	3°33	10°26	1°41	0°42	7°55	7°59	29°30	n.a.	T 25
W26	11 59 48	1°46'32	16°30	18° 4	27° 7	14°16	15°59	3°35	10°23	1°42	0°44	7°46	7°55	29°36	n.a.	W26
T 27	12 3 44	2°44'49	28°40	19°57	27°24	14°18	15°52	3°37	10°21	1°44	0°45	7°39	7°52	29°43	n.a.	T 27
F 28	12 7 41	3°43'04	11♊ 1	21°52	27°42	14°20	15°45	3°39	10°19	1°45	0°47	7°36	7°49	29°50	n.a.	F 28
S 29	12 11 37	4°41'16	23°37	23°49	28° 2	14°21	15°38	3°41	10°16	1°46	0°48	7°34	7°46	29°57	n.a.	S 29
S 30	12 15 34	5°39'27	6♋32	25°47	28°24	14°R21	15°31	3°42	10°14	1°47	0°49	7°34	7°43	0♈ 3	n.a.	S 30
M31	12 19 30	6♈37'35	19♋51	27♓47	28♒47	14♏20	15♍24	3♑44	10♍12	1♒49	0♈51	7♑34	7♑40	0♈10	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s55	25n 1	2n13	19s21	1s26	2s55	8n22	13s22	1n39	5n57	1n44	23s21	0n20	8n 6	0n49	20s32	0s23	15s13	16s44	23s18	23s23	3n19		n.a.
S 2	8 33	24 49	1 8	19 9	1 33	3 13	8 17	13 28	1 38	6 0	1 44	23 21	0 20	8 7	0 49	20 31	0 23	15 13	16 44	23 18	23 23	3 22		n.a.
M 3	8 11	23 12	0s 3	18 55	1 40	3 31	8 11	13 34	1 38	6 3	1 44	23 21	0 20	8 8	0 49	20 31	0 23	15 12	16 44	23 18	23 24	3 25		n.a.
T 4	7 48	20 8	1 17	18 40	1 46	3 49	8 4	13 40	1 37	6 6	1 44	23 21	0 20	8 9	0 49	20 31	0 23	15 11	16 44	23 18	23 24	3 28		n.a.
W 5	7 26	15 45	2 28	18 23	1 52	4 7	7 57	13 46	1 36	6 9	1 44	23 21	0 20	8 10	0 49	20 30	0 23	15 11	16 44	23 18	23 24	3 31		n.a.
T 6	7 3	10 19	3 31	18 5	1 58	4 26	7 48	13 51	1 35	6 12	1 44	23 21	0 20	8 11	0 49	20 30	0 23	15 10	16 43	23 19	23 24	3 33		n.a.
F 7	6 40	4 10	4 21	17 45	2 3	4 44	7 39	13 56	1 34	6 15	1 44	23 21	0 20	8 12	0 49	20 30	0 23	15 9	16 43	23 19	23 24	3 36		n.a.
S 8	6 17	2s17	4 52	17 24	2 7	5 3	7 30	14 2	1 34	6 18	1 44	23 21	0 20	8 13	0 49	20 29	0 23	15 9	16 43	23 20	23 25	3 39		n.a.
S 9	5 54	8 34	5 3	17 1	2 11	5 21	7 20	14 7	1 33	6 21	1 44	23 21	0 20	8 14	0 49	20 29	0 23	15 8	16 43	23 21	23 25	3 42		n.a.
M10	5 31	14 16	4 52	16 36	2 14	5 38	7 9	14 12	1 32	6 24	1 45	23 21	0 20	8 15	0 49	20 28	0 23	15 8	16 43	23 22	23 25	3 45		n.a.
T 11	5 8	18 59	4 23	16 10	2 17	5 56	6 58	14 16	1 31	6 27	1 45	23 21	0 20	8 16	0 49	20 28	0 23	15 7	16 43	23 22	23 25	3 48		n.a.
W12	4 45	22 27	3 37	15 42	2 20	6 13	6 47	14 21	1 30	6 30	1 45	23 21	0 20	8 17	0 49	20 28	0 23	15 6	16 43	23 22	23 25	3 50		n.a.
T 13	4 22	24 28	2 40	15 13	2 22	6 29	6 35	14 25	1 29	6 33	1 45	23 21	0 20	8 18	0 49	20 27	0 23	15 6	16 43	23 23	23 26	3 53		n.a.
F 14	3 58	25 0	1 36	14 43	2 23	6 45	6 23	14 30	1 28	6 36	1 45	23 21	0 20	8 19	0 49	20 27	0 23	15 5	16 43	23 23	23 26	3 56		n.a.
S 15	3 35	24 8	0 29	14 10	2 24	7 0	6 11	14 34	1 27	6 39	1 45	23 21	0 20	8 20	0 49	20 27	0 23	15 4	16 43	23 23	23 26	3 59		n.a.
S 16	3 12	22 3	0n38	13 37	2 24	7 14	5 59	14 38	1 25	6 42	1 45	23 21	0 20	8 21	0 49	20 26	0 23	15 4	16 43	23 23	23 26	4 2		n.a.
M17	2 48	18 58	1 42	13 1	2 24	7 28	5 46	14 42	1 24	6 45	1 45	23 21	0 20	8 22	0 49	20 26	0 23	15 3	16 42	23 23	23 27	4 5		n.a.
T 18	2 25	15 6	2 39	12 24	2 24	7 41	5 34	14 46	1 23	6 48	1 44	23 21	0 20	8 23	0 49	20 26	0 23	15 3	16 42	23 23	23 27	4 8		n.a.
W19	2 1	10 41	3 29	11 46	2 23	7 53	5 21	14 49	1 22	6 51	1 44	23 21	0 20	8 24	0 49	20 25	0 23	15 2	16 42	23 23	23 27	4 10		n.a.
T 20	1 38	5 55	4 10	11 6	2 21	8 5	5 9	14 53	1 20	6 54	1 44	23 21	0 20	8 25	0 48	20 25	0 23	15 1	16 42	23 24	23 27	4 13		n.a.
F 21	1 15	0 58	4 39	10 25	2 19	8 15	4 56	14 56	1 19	6 57	1 44	23 21	0 19	8 26	0 48	20 25	0 23	15 1	16 42	23 25	23 27	4 16		n.a.
S 22	0 51	4n 1	4 55	9 42	2 16	8 25	4 44	14 59	1 18	7 0	1 44	23 21	0 19	8 27	0 48	20 24	0 23	15 0	16 42	23 26	23 28	4 19		n.a.
S 23	0 28	8 50	4 59	8 58	2 13	8 34	4 31	15 2	1 16	7 3	1 44	23 21	0 19	8 27	0 48	20 24	0 23	15 0	16 42	23 27	23 28	4 22		n.a.
M24	0 4	13 21	4 51	8 12	2 9	8 42	4 19	15 5	1 15	7 6	1 44	23 21	0 19	8 28	0 48	20 24	0 23	14 59	16 42	23 28	23 28	4 25		n.a.
T 25	0n19	17 22	4 29	7 25	2 5	8 50	4 7	15 7	1 13	7 8	1 44	23 21	0 19	8 29	0 48	20 23	0 23	14 59	16 42	23 28	23 28	4 27		n.a.
W26	0 43	20 42	3 55	6 36	2 0	8 56	3 54	15 10	1 11	7 11	1 44	23 21	0 19	8 30	0 48	20 23	0 23	14 58	16 42	23 29	23 28	4 30		n.a.
T 27	1 6	23 10	3 10	5 46	1 54	9 2	3 42	15 12	1 10	7 14	1 44	23 21	0 19	8 31	0 48	20 23	0 23	14 57	16 42	23 29	23 28	4 33		n.a.
F 28	1 30	24 35	2 15	4 55	1 48	9 7	3 31	15 14	1 8	7 16	1 44	23 21	0 19	8 32	0 48	20 23	0 23	14 57	16 42	23 29	23 29	4 36		n.a.
S 29	1 53	24 46	1 13	4 2	1 42	9 11	3 19	15 16	1 6	7 19	1 44	23 21	0 19	8 33	0 48	20 22	0 23	14 56	16 42	23 30	23 29	4 39		n.a.
S 30	2 16	23 38	0 5	3 9	1 35	9 14	3 7	15 18	1 4	7 22	1 44	23 21	0 19	8 34	0 48	20 22	0 23	14 56	16 42	23 30	23 29	4 41		n.a.
M31	2n40	21n10	1s 4	2s14	1s28	9s17	2n56	15s20	1n 2	7n24	1n43	23s21	0n19	8n34	0n48	20s22	0s23	14s55	16s42	23s30	23s29	4n44		n.a.

Julian Day Number = 1673634.5, Delta T = 03h19m13s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'22, Lahiri = - 5°45'21 Julian Calendar 1 March 131 BCE == Greg. Calendar 26 Feb. 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

APRIL 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 23 27	7♈35'41	3♌37	29♓49	29♒12	14°R19	15°R17	3♉46	10°R10	1♒50	0♈52	7°R33	7♉36	0♈17	n.a.	T 1
W 2	12 27 23	8°33'46	17°51	1♈52	29°39	14♏17	15♍11	3°47	10♍ 8	1°51	0°53	7♉29	7°33	0°23	n.a.	W 2
T 3	12 31 20	9°31'48	2♍31	3°56	0♓ 8	14°14	15° 4	3°48	10° 5	1°52	0°55	7°23	7°30	0°30	n.a.	T 3
F 4	12 35 16	10°29'48	17°34	6° 2	0°38	14°11	14°58	3°50	10° 3	1°53	0°56	7°14	7°27	0°37	n.a.	F 4
S 5	12 39 13	11°27'46	2♎51	8° 9	1° 9	14° 7	14°52	3°51	10° 1	1°54	0°58	7° 4	7°24	0°44	n.a.	S 5
S 6	12 43 10	12°25'42	18°10	10°17	1°42	14° 2	14°45	3°52	9°59	1°55	0°59	6°53	7°21	0°50	n.a.	S 6
M 7	12 47 6	13°23'37	3♏21	12°26	2°16	13°56	14°39	3°53	9°57	1°56	1° 0	6°43	7°17	0°57	n.a.	M 7
T 8	12 51 3	14°21'31	18°13	14°36	2°51	13°49	14°33	3°54	9°55	1°57	1° 2	6°35	7°14	1° 4	n.a.	T 8
W 9	12 54 59	15°19'23	2♐39	16°46	3°28	13°42	14°28	3°55	9°53	1°58	1° 3	6°29	7°11	1°10	n.a.	W 9
T 10	12 58 56	16°17'13	16°36	18°56	4° 6	13°34	14°22	3°55	9°51	1°59	1° 4	6°26	7° 8	1°17	n.a.	T 10
F 11	13 2 52	17°15'03	0♑ 3	21° 6	4°45	13°25	14°16	3°56	9°49	2° 0	1° 6	6°25	7° 5	1°24	n.a.	F 11
S 12	13 6 49	18°12'51	13° 3	23°16	5°25	13°16	14°11	3°57	9°48	2° 1	1° 7	6°25	7° 1	1°31	n.a.	S 12
S 13	13 10 45	19°10'37	25°41	25°25	6° 6	13° 6	14° 6	3°57	9°46	2° 2	1° 8	6°24	6°58	1°37	n.a.	S 13
M14	13 14 42	20° 8'23	8♒ 0	27°34	6°48	12°55	14° 1	3°57	9°44	2° 3	1°10	6°23	6°55	1°44	n.a.	M14
T 15	13 18 39	21° 6'07	20° 6	29°41	7°31	12°43	13°56	3°58	9°42	2° 3	1°11	6°20	6°52	1°51	n.a.	T 15
W16	13 22 35	22° 3'50	2♓ 4	1♉47	8°15	12°30	13°51	3°58	9°40	2° 4	1°12	6°14	6°49	1°58	n.a.	W16
T 17	13 26 32	23° 1'31	13°57	3°51	9° 0	12°17	13°46	3°R58	9°39	2° 5	1°14	6° 5	6°46	2° 4	n.a.	T 17
F 18	13 30 28	23°59'12	25°47	5°53	9°46	12° 4	13°42	3°58	9°37	2° 5	1°15	5°55	6°42	2°11	n.a.	F 18
S 19	13 34 25	24°56'51	7♈39	7°53	10°32	11°49	13°38	3°58	9°36	2° 6	1°16	5°42	6°39	2°18	n.a.	S 19
S 20	13 38 21	25°54'29	19°34	9°51	11°20	11°34	13°33	3°57	9°34	2° 7	1°18	5°29	6°36	2°24	n.a.	S 20
M21	13 42 18	26°52'05	1♉32	11°46	12° 8	11°19	13°29	3°57	9°33	2° 7	1°19	5°17	6°33	2°31	n.a.	M21
T 22	13 46 14	27°49'40	13°36	13°39	12°57	11° 3	13°25	3°56	9°31	2° 8	1°20	5° 6	6°30	2°38	n.a.	T 22
W23	13 50 11	28°47'14	25°47	15°29	13°46	10°46	13°22	3°56	9°30	2° 8	1°21	4°58	6°26	2°45	n.a.	W23
T 24	13 54 8	29°44'47	8♊ 6	17°16	14°37	10°29	13°18	3°55	9°28	2° 9	1°23	4°52	6°23	2°51	n.a.	T 24
F 25	13 58 4	0♉42'18	20°36	19° 0	15°28	10°11	13°15	3°55	9°27	2° 9	1°24	4°49	6°20	2°58	n.a.	F 25
S 26	14 2 1	1°39'48	3♋19	20°42	16°19	9°53	13°12	3°54	9°26	2°10	1°25	4°D48	6°17	3° 5	n.a.	S 26
S 27	14 5 57	2°37'16	16°18	22°20	17°11	9°35	13° 9	3°53	9°25	2°10	1°26	4°48	6°14	3°12	n.a.	S 27
M28	14 9 54	3°34'43	29°36	23°55	18° 4	9°16	13° 6	3°52	9°23	2°10	1°28	4°R49	6°11	3°18	n.a.	M28
T 29	14 13 50	4°32'09	13♌16	25°27	18°57	8°57	13° 3	3°51	9°22	2°11	1°29	4°49	6° 7	3°25	n.a.	T 29
W30	14 17 47	5♉29'33	27♌19	26♉56	19♓51	8♏38	13♍ 1	3♉49	9♍21	2♒11	1♈30	4♉47	6♉ 4	3♈32	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 3	17n25	2s13	1s18	1s20	9s18	2n45	15s21	1n 0	7n27	1n43	23s21	0n19	8n35	0n48	20s22	0s24	14s55	16s42	23s30	23s29	4n47		n.a.
W 2	3 26	12 34	3 15	0 20	1 11	9 19	2 34	15 23	0 58	7 29	1 43	23 21	0 19	8 36	0 48	20 21	0 24	14 54	16 42	23 30	23 30	4 50		n.a.
T 3	3 49	6 51	4 7	0n38	1 3	9 19	2 23	15 24	0 56	7 32	1 43	23 21	0 19	8 37	0 48	20 21	0 24	14 54	16 42	23 30	23 30	4 53		n.a.
F 4	4 12	0 38	4 43	1 36	0 53	9 18	2 13	15 25	0 54	7 34	1 43	23 21	0 19	8 38	0 48	20 21	0 24	14 53	16 42	23 31	23 30	4 55		n.a.
S 5	4 35	5s43	4 59	2 36	0 44	9 17	2 2	15 26	0 52	7 36	1 43	23 21	0 19	8 38	0 48	20 21	0 24	14 53	16 42	23 31	23 30	4 58		n.a.
S 6	4 58	11 44	4 55	3 36	0 34	9 15	1 52	15 26	0 50	7 39	1 43	23 21	0 19	8 39	0 48	20 20	0 24	14 52	16 42	23 32	23 30	5 1		n.a.
M 7	5 21	16 58	4 29	4 36	0 24	9 12	1 42	15 27	0 47	7 41	1 42	23 21	0 19	8 40	0 48	20 20	0 24	14 52	16 42	23 32	23 30	5 4		n.a.
T 8	5 43	21 3	3 45	5 36	0 14	9 8	1 33	15 27	0 45	7 43	1 42	23 21	0 19	8 41	0 48	20 20	0 24	14 51	16 43	23 33	23 31	5 7		n.a.
W 9	6 6	23 40	2 48	6 37	0 3	9 3	1 23	15 27	0 43	7 45	1 42	23 21	0 19	8 41	0 48	20 20	0 24	14 51	16 43	23 33	23 31	5 9		n.a.
T 10	6 29	24 44	1 43	7 37	0n 8	8 58	1 14	15 27	0 40	7 47	1 42	23 21	0 18	8 42	0 48	20 20	0 24	14 50	16 43	23 33	23 31	5 12		n.a.
F 11	6 51	24 16	0 34	8 36	0 18	8 52	1 5	15 27	0 37	7 49	1 42	23 21	0 18	8 43	0 48	20 19	0 24	14 50	16 43	23 33	23 31	5 15		n.a.
S 12	7 13	22 29	0n35	9 35	0 29	8 46	0 56	15 27	0 35	7 51	1 41	23 21	0 18	8 43	0 48	20 19	0 24	14 49	16 43	23 33	23 31	5 18		n.a.
S 13	7 35	19 36	1 40	10 33	0 39	8 38	0 48	15 26	0 32	7 53	1 41	23 21	0 18	8 44	0 48	20 19	0 24	14 49	16 43	23 33	23 32	5 21		n.a.
M14	7 58	15 55	2 39	11 30	0 50	8 31	0 39	15 25	0 29	7 55	1 41	23 21	0 18	8 45	0 48	20 19	0 24	14 48	16 43	23 33	23 32	5 23		n.a.
T 15	8 19	11 38	3 29	12 25	1 0	8 22	0 31	15 24	0 27	7 56	1 41	23 21	0 18	8 45	0 48	20 19	0 24	14 48	16 43	23 33	23 32	5 26		n.a.
W16	8 41	6 58	4 10	13 19	1 9	8 13	0 23	15 23	0 24	7 58	1 41	23 21	0 18	8 46	0 48	20 19	0 24	14 48	16 43	23 34	23 32	5 29		n.a.
T 17	9 3	2 6	4 39	14 10	1 19	8 3	0 15	15 22	0 21	8 0	1 40	23 21	0 18	8 47	0 48	20 19	0 24	14 47	16 43	23 34	23 32	5 32		n.a.
F 18	9 25	2n50	4 56	15 0	1 27	7 53	0 8	15 21	0 18	8 1	1 40	23 21	0 18	8 47	0 48	20 18	0 24	14 47	16 43	23 35	23 32	5 34		n.a.
S 19	9 46	7 40	5 1	15 48	1 36	7 42	0 0	15 19	0 15	8 3	1 40	23 21	0 18	8 48	0 48	20 18	0 24	14 46	16 44	23 35	23 33	5 37		n.a.
S 20	10 7	12 14	4 52	16 34	1 43	7 30	0s 7	15 17	0 12	8 4	1 40	23 21	0 18	8 48	0 48	20 18	0 24	14 46	16 44	23 36	23 33	5 40		n.a.
M21	10 28	16 22	4 31	17 17	1 50	7 18	0 14	15 15	0 9	8 5	1 40	23 21	0 18	8 49	0 48	20 18	0 24	14 45	16 44	23 36	23 33	5 43		n.a.
T 22	10 49	19 51	3 57	17 58	1 57	7 5	0 20	15 13	0 6	8 7	1 39	23 21	0 18	8 49	0 48	20 18	0 24	14 45	16 44	23 37	23 33	5 45		n.a.
W23	11 10	22 31	3 12	18 37	2 3	6 52	0 27	15 11	0 2	8 8	1 39	23 21	0 18	8 50	0 48	20 18	0 24	14 45	16 44	23 37	23 33	5 48		n.a.
T 24	11 31	24 10	2 17	19 13	2 8	6 38	0 33	15 9	0s 1	8 9	1 39	23 21	0 18	8 50	0 48	20 18	0 24	14 44	16 44	23 37	23 33	5 51		n.a.
F 25	11 51	24 37	1 15	19 47	2 12	6 24	0 40	15 6	0 4	8 10	1 39	23 22	0 18	8 51	0 48	20 18	0 24	14 44	16 44	23 37	23 33	5 54		n.a.
S 26	12 11	23 48	0 8	20 18	2 15	6 9	0 46	15 4	0 7	8 11	1 38	23 22	0 18	8 51	0 48	20 18	0 24	14 44	16 45	23 37	23 34	5 56		n.a.
S 27	12 31	21 42	1s 1	20 47	2 18	5 54	0 51	15 1	0 11	8 12	1 38	23 22	0 18	8 52	0 47	20 18	0 24	14 43	16 45	23 37	23 34	5 59		n.a.
M28	12 51	18 23	2 8	21 14	2 20	5 39	0 57	14 58	0 14	8 13	1 38	23 22	0 17	8 52	0 47	20 18	0 24	14 43	16 45	23 37	23 34	6 2		n.a.
T 29	13 11	13 59	3 10	21 38	2 21	5 22	1 2	14 55	0 17	8 14	1 38	23 22	0 17	8 53	0 47	20 17	0 24	14 43	16 45	23 37	23 34	6 5		n.a.
W30	13n30	8n45	4s 3	22n 0	2n22	5s 6	1s 8	14s52	0s21	8n15	1n37	23s22	0n17	8n53	0n47	20s17	0s24	14s42	16s45	23s37	23s34	6n 7		n.a.

Julian Day Number = 1673665.5, Delta T = 03h19m12s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'18, Lahiri = - 5°45'17 Julian Calendar 1 Apr. 131 BCE == Greg. Calendar 29 March 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

MAY 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 43	6♉26'55	11♍46	28♉22	20♓46	8°R18	12°R58	3°R48	9°R20	2♒11	1♈31	4°R43	6♏ 1	3♈38	n.a.	T 1
F 2	14 25 40	7°24'17	26°32	29°45	21°40	7♏59	12♍56	3♏47	9♍19	2°12	1°32	4♏37	5°58	3°45	n.a.	F 2
S 3	14 29 37	8°21'37	11♎33	1♊ 5	22°36	7°39	12°54	3°45	9°18	2°12	1°33	4°29	5°55	3°52	n.a.	S 3
S 4	14 33 33	9°18'56	26°39	2°21	23°32	7°19	12°53	3°44	9°17	2°12	1°35	4°21	5°52	3°59	n.a.	S 4
M 5	14 37 30	10°16'14	11♏40	3°34	24°28	6°59	12°51	3°42	9°17	2°12	1°36	4°13	5°48	4° 5	n.a.	M 5
T 6	14 41 26	11°13'31	26°27	4°43	25°25	6°39	12°50	3°40	9°16	2°12	1°37	4° 7	5°45	4°12	n.a.	T 6
W 7	14 45 23	12°10'48	10♐53	5°50	26°22	6°19	12°48	3°38	9°15	2°12	1°38	4° 2	5°42	4°19	n.a.	W 7
T 8	14 49 19	13° 8'03	24°53	6°52	27°20	6° 0	12°47	3°36	9°14	2°R12	1°39	4° 0	5°39	4°25	n.a.	T 8
F 9	14 53 16	14° 5'19	8♑25	7°51	28°18	5°40	12°46	3°34	9°14	2°12	1°40	4°D 0	5°36	4°32	n.a.	F 9
S 10	14 57 12	15° 2'33	21°30	8°47	29°16	5°20	12°46	3°32	9°13	2°12	1°41	4° 1	5°32	4°39	n.a.	S 10
S 11	15 1 9	15°59'48	4♒12	9°39	0♈15	5° 1	12°45	3°30	9°13	2°12	1°42	4° 2	5°29	4°46	n.a.	S 11
M12	15 5 6	16°57'01	16°34	10°27	1°14	4°42	12°45	3°28	9°12	2°12	1°43	4°R 3	5°26	4°52	n.a.	M12
T 13	15 9 2	17°54'14	28°42	11°11	2°13	4°23	12°D45	3°26	9°12	2°12	1°44	4° 2	5°23	4°59	n.a.	T 13
W14	15 12 59	18°51'27	10♓40	11°51	3°13	4° 5	12°45	3°23	9°11	2°12	1°45	4° 0	5°20	5° 6	n.a.	W14
T 15	15 16 55	19°48'40	22°33	12°27	4°13	3°47	12°45	3°21	9°11	2°12	1°46	3°55	5°17	5°13	n.a.	T 15
F 16	15 20 52	20°45'52	4♈25	12°59	5°14	3°30	12°45	3°18	9°11	2°11	1°47	3°49	5°13	5°19	n.a.	F 16
S 17	15 24 48	21°43'03	16°18	13°26	6°15	3°12	12°46	3°15	9°10	2°11	1°48	3°42	5°10	5°26	n.a.	S 17
S 18	15 28 45	22°40'15	28°17	13°49	7°16	2°56	12°47	3°13	9°10	2°11	1°49	3°35	5° 7	5°33	n.a.	S 18
M19	15 32 41	23°37'26	10♉23	14° 8	8°17	2°40	12°47	3°10	9°10	2°10	1°50	3°27	5° 4	5°39	n.a.	M19
T 20	15 36 38	24°34'36	22°37	14°22	9°19	2°24	12°49	3° 7	9°10	2°10	1°51	3°21	5° 1	5°46	n.a.	T 20
W21	15 40 35	25°31'47	5♊ 1	14°32	10°21	2°10	12°50	3° 4	9°D10	2°10	1°52	3°17	4°58	5°53	n.a.	W21
T 22	15 44 31	26°28'57	17°35	14°37	11°23	1°55	12°51	3° 1	9°10	2° 9	1°53	3°14	4°54	6° 0	n.a.	T 22
F 23	15 48 28	27°26'06	0♋21	14°R38	12°25	1°42	12°53	2°58	9°10	2° 9	1°54	3°D13	4°51	6° 6	n.a.	F 23
S 24	15 52 24	28°23'15	13°20	14°34	13°28	1°29	12°55	2°54	9°10	2° 8	1°55	3°13	4°48	6°13	n.a.	S 24
S 25	15 56 21	29°20'24	26°32	14°26	14°31	1°17	12°57	2°51	9°10	2° 8	1°56	3°14	4°45	6°20	n.a.	S 25
M26	16 0 17	0♊17'32	9♌59	14°13	15°34	1° 6	12°59	2°48	9°11	2° 7	1°56	3°16	4°42	6°27	n.a.	M26
T 27	16 4 14	1°14'39	23°42	13°56	16°38	0°55	13° 1	2°44	9°11	2° 7	1°57	3°17	4°38	6°33	n.a.	T 27
W28	16 8 11	2°11'46	7♍42	13°36	17°41	0°46	13° 4	2°41	9°11	2° 6	1°58	3°R17	4°35	6°40	n.a.	W28
T 29	16 12 7	3° 8'52	21°57	13°11	18°45	0°37	13° 6	2°37	9°12	2° 6	1°59	3°16	4°32	6°47	n.a.	T 29
F 30	16 16 4	4° 5'58	6♎26	12°44	19°49	0°28	13° 9	2°34	9°12	2° 5	1°59	3°13	4°29	6°53	n.a.	F 30
S 31	16 20 0	5♊ 3'04	21♎ 4	12♊13	20♈53	0♏21	13♍12	2♏30	9♍13	2♒ 4	2♈ 0	3♏10	4♏26	7♈ 0	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13n49	2n54	4s41	22n19	2n21	4s49	1s13	14s49	0s24	8n15	1n37	23s22	0n17	8n53	0n47	20s17	0s24	14s42	16s45	23s38	23s34	6n10		n.a.
F 2	14 8	3s13	5 2	22 37	2 20	4 32	1 18	14 46	0 28	8 16	1 37	23 22	0 17	8 54	0 47	20 17	0 24	14 42	16 46	23 38	23 35	6 13		n.a.
S 3	14 27	9 15	5 3	22 52	2 18	4 14	1 22	14 43	0 31	8 16	1 37	23 22	0 17	8 54	0 47	20 17	0 24	14 41	16 46	23 38	23 35	6 16		n.a.
S 4	14 46	14 46	4 42	23 5	2 15	3 56	1 27	14 39	0 35	8 17	1 36	23 22	0 17	8 54	0 47	20 17	0 24	14 41	16 46	23 38	23 35	6 18		n.a.
M 5	15 4	19 21	4 3	23 16	2 12	3 37	1 31	14 36	0 38	8 17	1 36	23 22	0 17	8 55	0 47	20 17	0 24	14 41	16 46	23 39	23 35	6 21		n.a.
T 6	15 22	22 37	3 7	23 25	2 8	3 18	1 36	14 33	0 42	8 17	1 36	23 23	0 17	8 55	0 47	20 17	0 24	14 41	16 46	23 39	23 35	6 24		n.a.
W 7	15 40	24 19	2 1	23 32	2 2	2 59	1 40	14 29	0 45	8 18	1 35	23 23	0 17	8 55	0 47	20 17	0 24	14 40	16 47	23 39	23 35	6 27		n.a.
T 8	15 57	24 26	0 49	23 37	1 56	2 39	1 43	14 26	0 48	8 18	1 35	23 23	0 17	8 55	0 47	20 17	0 24	14 40	16 47	23 39	23 35	6 29		n.a.
F 9	16 15	23 3	0n24	23 40	1 50	2 19	1 47	14 22	0 52	8 18	1 35	23 23	0 17	8 55	0 47	20 17	0 24	14 40	16 47	23 39	23 35	6 32		n.a.
S 10	16 32	20 27	1 33	23 42	1 42	1 59	1 51	14 19	0 55	8 18	1 35	23 23	0 17	8 56	0 47	20 17	0 25	14 40	16 47	23 39	23 36	6 35		n.a.
S 11	16 49	16 55	2 35	23 41	1 34	1 38	1 54	14 16	0 59	8 18	1 34	23 23	0 17	8 56	0 47	20 17	0 25	14 39	16 47	23 39	23 36	6 37		n.a.
M12	17 5	12 44	3 29	23 40	1 24	1 18	1 57	14 12	1 2	8 18	1 34	23 23	0 17	8 56	0 47	20 18	0 25	14 39	16 48	23 39	23 36	6 40		n.a.
T 13	17 22	8 7	4 12	23 36	1 15	0 57	2 0	14 9	1 5	8 18	1 34	23 23	0 17	8 56	0 47	20 18	0 25	14 39	16 48	23 39	23 36	6 43		n.a.
W14	17 38	3 17	4 43	23 31	1 4	0 35	2 3	14 6	1 9	8 17	1 34	23 24	0 16	8 56	0 47	20 18	0 25	14 39	16 48	23 39	23 36	6 46		n.a.
T 15	17 53	1n38	5 2	23 25	0 53	0 14	2 6	14 3	1 12	8 17	1 33	23 24	0 16	8 56	0 47	20 18	0 25	14 39	16 48	23 39	23 36	6 48		n.a.
F 16	18 9	6 29	5 8	23 17	0 40	0n 8	2 9	14 0	1 15	8 17	1 33	23 24	0 16	8 56	0 47	20 18	0 25	14 39	16 49	23 39	23 36	6 51		n.a.
S 17	18 24	11 6	5 1	23 8	0 28	0 30	2 11	13 57	1 18	8 16	1 33	23 24	0 16	8 56	0 47	20 18	0 25	14 38	16 49	23 40	23 37	6 54		n.a.
S 18	18 39	15 20	4 41	22 57	0 14	0 53	2 13	13 54	1 21	8 16	1 32	23 24	0 16	8 56	0 47	20 18	0 25	14 38	16 49	23 40	23 37	6 56		n.a.
M19	18 53	19 0	4 7	22 46	0 0	1 15	2 16	13 51	1 24	8 15	1 32	23 24	0 16	8 56	0 47	20 18	0 25	14 38	16 49	23 40	23 37	6 59		n.a.
T 20	19 8	21 53	3 22	22 33	0s14	1 38	2 18	13 49	1 27	8 14	1 32	23 24	0 16	8 56	0 47	20 18	0 25	14 38	16 50	23 40	23 37	7 2		n.a.
W21	19 22	23 47	2 27	22 19	0 29	2 0	2 19	13 46	1 30	8 14	1 32	23 25	0 16	8 56	0 47	20 18	0 25	14 38	16 50	23 40	23 37	7 4		n.a.
T 22	19 35	24 31	1 24	22 4	0 45	2 23	2 21	13 44	1 33	8 13	1 31	23 25	0 16	8 56	0 46	20 18	0 25	14 38	16 50	23 40	23 37	7 7		n.a.
F 23	19 49	23 58	0 16	21 48	1 1	2 47	2 23	13 42	1 36	8 12	1 31	23 25	0 16	8 56	0 46	20 19	0 25	14 38	16 51	23 40	23 37	7 10		n.a.
S 24	20 2	22 7	0s55	21 32	1 17	3 10	2 24	13 40	1 39	8 11	1 31	23 25	0 16	8 56	0 46	20 19	0 25	14 38	16 51	23 40	23 37	7 12		n.a.
S 25	20 14	19 4	2 4	21 15	1 33	3 33	2 26	13 38	1 42	8 10	1 31	23 25	0 16	8 56	0 46	20 19	0 25	14 37	16 51	23 40	23 37	7 15		n.a.
M26	20 27	14 56	3 7	20 57	1 50	3 57	2 27	13 37	1 44	8 9	1 30	23 25	0 16	8 56	0 46	20 19	0 25	14 37	16 51	23 40	23 38	7 18		n.a.
T 27	20 39	9 58	4 1	20 39	2 6	4 20	2 28	13 36	1 47	8 8	1 30	23 25	0 16	8 56	0 46	20 19	0 25	14 37	16 52	23 40	23 38	7 20		n.a.
W28	20 50	4 25	4 42	20 20	2 22	4 44	2 29	13 35	1 50	8 6	1 30	23 26	0 15	8 56	0 46	20 19	0 25	14 37	16 52	23 40	23 38	7 23		n.a.
T 29	21 1	1s28	5 7	20 2	2 38	5 7	2 30	13 34	1 52	8 5	1 29	23 26	0 15	8 55	0 46	20 19	0 25	14 37	16 52	23 40	23 38	7 26		n.a.
F 30	21 12	7 21	5 12	19 43	2 53	5 31	2 30	13 33	1 55	8 4	1 29	23 26	0 15	8 55	0 46	20 20	0 25	14 37	16 52	23 40	23 38	7 28		n.a.
S 31	21n23	12s54	4s58	19n25	3s 8	5n55	2s31	13s33	1s57	8n 2	1n29	23s26	0n15	8n55	0n46	20s20	0s25	14s37	16s53	23s40	23s38	7n31		n.a.

Julian Day Number = 1673695.5, Delta T = 03h19m11s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'14, Lahiri = - 5°45'13 Julian Calendar 1 May 131 BCE == Greg. Calendar 28 Apr. 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

JUNE 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 23 57	6♊ 0'09	5♏46	11°R40	21♈58	0°R15	13♍15	2°R27	9♍13	2°R 3	2♈ 1	3°R 6	4♑23	7♈ 7	n.a.	S 1
M 2	16 27 53	6°57'14	20°24	11♊ 6	23° 2	0♏ 9	13°19	2♑23	9°14	2♒ 3	2° 2	3♑ 3	4°19	7°14	n.a.	M 2
T 3	16 31 50	7°54'20	4♐53	10°30	24° 7	0° 4	13°22	2°19	9°15	2° 2	2° 2	3° 0	4°16	7°20	n.a.	T 3
W 4	16 35 46	8°51'25	19° 5	9°53	25°12	29♎59	13°26	2°15	9°15	2° 1	2° 3	2°58	4°13	7°27	n.a.	W 4
T 5	16 39 43	9°48'30	2♑57	9°16	26°17	29°57	13°30	2°11	9°16	2° 0	2° 4	2°D57	4°10	7°34	n.a.	T 5
F 6	16 43 40	10°45'36	16°26	8°40	27°23	29°54	13°34	2° 7	9°17	1°59	2° 4	2°58	4° 7	7°41	n.a.	F 6
S 7	16 47 36	11°42'42	29°31	8° 5	28°28	29°53	13°38	2° 3	9°18	1°59	2° 5	2°59	4° 4	7°47	n.a.	S 7
S 8	16 51 33	12°39'48	12♒16	7°32	29°34	29°D52	13°42	1°59	9°19	1°58	2° 5	3° 1	4° 0	7°54	n.a.	S 8
M 9	16 55 29	13°36'55	24°41	7° 1	0♉40	29°52	13°47	1°55	9°20	1°57	2° 6	3° 2	3°57	8° 1	n.a.	M 9
T 10	16 59 26	14°34'02	6♓52	6°33	1°46	29°53	13°51	1°51	9°21	1°56	2° 7	3° 3	3°54	8° 7	n.a.	T 10
W11	17 3 22	15°31'10	18°52	6° 9	2°52	29°55	13°56	1°47	9°22	1°55	2° 7	3°R 3	3°51	8°14	n.a.	W11
T 12	17 7 19	16°28'18	0♈46	5°48	3°59	29°58	14° 1	1°43	9°23	1°54	2° 8	3° 2	3°48	8°21	n.a.	T 12
F 13	17 11 15	17°25'27	12°39	5°32	5° 5	0♏ 1	14° 6	1°39	9°24	1°53	2° 8	3° 1	3°44	8°28	n.a.	F 13
S 14	17 15 12	18°22'37	24°35	5°20	6°12	0° 5	14°11	1°34	9°25	1°52	2° 8	2°59	3°41	8°34	n.a.	S 14
S 15	17 19 9	19°19'47	6♉37	5°14	7°19	0°10	14°17	1°30	9°27	1°51	2° 9	2°57	3°38	8°41	n.a.	S 15
M16	17 23 5	20°16'58	18°50	5°D12	8°26	0°16	14°22	1°26	9°28	1°50	2° 9	2°55	3°35	8°48	n.a.	M16
T 17	17 27 2	21°14'10	1♊14	5°16	9°33	0°23	14°28	1°22	9°29	1°48	2°10	2°54	3°32	8°54	n.a.	T 17
W18	17 30 58	22°11'22	13°52	5°25	10°40	0°30	14°34	1°17	9°31	1°47	2°10	2°53	3°29	9° 1	n.a.	W18
T 19	17 34 55	23° 8'35	26°45	5°40	11°48	0°38	14°40	1°13	9°32	1°46	2°11	2°D52	3°25	9° 8	n.a.	T 19
F 20	17 38 51	24° 5'48	9♋52	6° 1	12°55	0°47	14°46	1° 8	9°34	1°45	2°11	2°52	3°22	9°15	n.a.	F 20
S 21	17 42 48	25° 3'02	23°14	6°27	14° 3	0°57	14°52	1° 4	9°35	1°44	2°11	2°53	3°19	9°21	n.a.	S 21
S 22	17 46 45	26° 0'16	6♌49	6°58	15°11	1° 7	14°59	1° 0	9°37	1°42	2°12	2°53	3°16	9°28	n.a.	S 22
M23	17 50 41	26°57'31	20°35	7°36	16°19	1°19	15° 5	0°55	9°39	1°41	2°12	2°54	3°13	9°35	n.a.	M23
T 24	17 54 38	27°54'47	4♍32	8°19	17°27	1°30	15°12	0°51	9°40	1°40	2°12	2°54	3°10	9°42	n.a.	T 24
W25	17 58 34	28°52'02	18°38	9° 7	18°35	1°43	15°19	0°46	9°42	1°39	2°12	2°55	3° 6	9°48	n.a.	W25
T 26	18 2 31	29°49'18	2♎50	10° 1	19°43	1°56	15°26	0°42	9°44	1°37	2°13	2°R55	3° 3	9°55	n.a.	T 26
F 27	18 6 27	0♋46'35	17° 7	11° 1	20°51	2°10	15°33	0°37	9°46	1°36	2°13	2°55	3° 0	10° 2	n.a.	F 27
S 28	18 10 24	1°43'52	1♏25	12° 5	22° 0	2°25	15°40	0°33	9°48	1°35	2°13	2°54	2°57	10° 8	n.a.	S 28
S 29	18 14 20	2°41'10	15°41	13°15	23° 8	2°40	15°47	0°29	9°50	1°33	2°13	2°D54	2°54	10°15	n.a.	S 29
M30	18 18 17	3♋38'29	29♏51	14♊30	24♉17	2♏56	15♍55	0♑24	9♍52	1♒32	2♈13	2♑54	2♑50	10♈22	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n33	17s44	4s24	19n 6	3s22	6n19	2s31	13s33	1s59	8n 1	1n29	23s26	0n15	8n55	0n46	20s20	0s25	14s37	16s53	23s40	23s38	7n34		n.a.
M 2	21 43	21 27	3 32	18 49	3 35	6 43	2 32	13 33	2 1	7 59	1 28	23 26	0 15	8 54	0 46	20 20	0 25	14 37	16 53	23 41	23 38	7 36		n.a.
T 3	21 53	23 47	2 28	18 32	3 47	7 6	2 32	13 33	2 4	7 58	1 28	23 26	0 15	8 54	0 46	20 20	0 25	14 37	16 54	23 41	23 38	7 39		n.a.
W 4	22 2	24 31	1 16	18 16	3 57	7 30	2 32	13 33	2 6	7 56	1 28	23 27	0 15	8 54	0 46	20 21	0 25	14 37	16 54	23 41	23 39	7 42		n.a.
T 5	22 10	23 41	0 0	18 2	4 7	7 54	2 32	13 34	2 8	7 54	1 28	23 27	0 15	8 53	0 46	20 21	0 25	14 37	16 54	23 41	23 39	7 44		n.a.
F 6	22 19	21 28	1n13	17 48	4 15	8 18	2 32	13 35	2 10	7 52	1 27	23 27	0 15	8 53	0 46	20 21	0 25	14 37	16 55	23 41	23 39	7 47		n.a.
S 7	22 27	18 11	2 21	17 36	4 21	8 42	2 32	13 37	2 12	7 51	1 27	23 27	0 15	8 53	0 46	20 21	0 25	14 37	16 55	23 41	23 39	7 50		n.a.
S 8	22 34	14 7	3 20	17 26	4 26	9 5	2 31	13 38	2 14	7 49	1 27	23 27	0 15	8 52	0 46	20 21	0 25	14 37	16 55	23 41	23 39	7 52		n.a.
M 9	22 42	9 33	4 8	17 18	4 30	9 29	2 31	13 40	2 15	7 47	1 26	23 27	0 15	8 52	0 46	20 22	0 25	14 37	16 56	23 41	23 39	7 55		n.a.
T 10	22 48	4 43	4 43	17 11	4 32	9 53	2 30	13 42	2 17	7 45	1 26	23 27	0 14	8 51	0 46	20 22	0 25	14 37	16 56	23 41	23 39	7 58		n.a.
W11	22 55	0n14	5 6	17 7	4 32	10 16	2 30	13 44	2 19	7 42	1 26	23 28	0 14	8 51	0 46	20 22	0 25	14 38	16 56	23 41	23 39	8 0		n.a.
T 12	23 1	5 7	5 15	17 4	4 31	10 39	2 29	13 46	2 21	7 40	1 26	23 28	0 14	8 51	0 46	20 22	0 25	14 38	16 57	23 41	23 39	8 3		n.a.
F 13	23 7	9 49	5 11	17 4	4 28	11 3	2 28	13 49	2 22	7 38	1 25	23 28	0 14	8 50	0 46	20 23	0 25	14 38	16 57	23 41	23 39	8 6		n.a.
S 14	23 12	14 10	4 53	17 6	4 24	11 26	2 27	13 52	2 24	7 36	1 25	23 28	0 14	8 50	0 45	20 23	0 25	14 38	16 57	23 41	23 40	8 8		n.a.
S 15	23 17	18 0	4 23	17 10	4 19	11 49	2 26	13 55	2 25	7 33	1 25	23 28	0 14	8 49	0 45	20 23	0 25	14 38	16 58	23 41	23 40	8 11		n.a.
M16	23 21	21 8	3 40	17 16	4 13	12 12	2 25	13 59	2 27	7 31	1 25	23 28	0 14	8 48	0 45	20 23	0 25	14 38	16 58	23 41	23 40	8 13		n.a.
T 17	23 25	23 21	2 46	17 24	4 5	12 34	2 23	14 2	2 28	7 29	1 24	23 28	0 14	8 48	0 45	20 24	0 25	14 38	16 58	23 41	23 40	8 16		n.a.
W18	23 29	24 26	1 43	17 34	3 57	12 57	2 22	14 6	2 29	7 26	1 24	23 28	0 14	8 47	0 45	20 24	0 25	14 38	16 59	23 41	23 40	8 19		n.a.
T 19	23 32	24 14	0 34	17 46	3 47	13 19	2 21	14 10	2 31	7 24	1 24	23 29	0 14	8 47	0 45	20 24	0 25	14 39	16 59	23 41	23 40	8 21		n.a.
F 20	23 35	22 42	0s39	18 0	3 37	13 41	2 19	14 15	2 32	7 21	1 24	23 29	0 14	8 46	0 45	20 25	0 25	14 39	16 59	23 41	23 40	8 24		n.a.
S 21	23 37	19 52	1 50	18 15	3 26	14 3	2 18	14 19	2 33	7 18	1 23	23 29	0 14	8 45	0 45	20 25	0 26	14 39	17 0	23 41	23 40	8 26		n.a.
S 22	23 39	15 56	2 57	18 32	3 14	14 24	2 16	14 24	2 34	7 16	1 23	23 29	0 13	8 45	0 45	20 25	0 26	14 39	17 0	23 41	23 40	8 29		n.a.
M23	23 41	11 5	3 55	18 51	3 1	14 46	2 14	14 29	2 35	7 13	1 23	23 29	0 13	8 44	0 45	20 25	0 26	14 39	17 0	23 41	23 40	8 32		n.a.
T 24	23 42	5 38	4 39	19 10	2 48	15 7	2 13	14 34	2 36	7 10	1 23	23 29	0 13	8 43	0 45	20 26	0 26	14 40	17 1	23 41	23 40	8 34		n.a.
W25	23 42	0s 9	5 7	19 31	2 35	15 27	2 11	14 39	2 37	7 7	1 22	23 29	0 13	8 43	0 45	20 26	0 26	14 40	17 1	23 41	23 40	8 37		n.a.
T 26	23 43	5 58	5 17	19 53	2 21	15 48	2 9	14 45	2 38	7 4	1 22	23 29	0 13	8 42	0 45	20 26	0 26	14 40	17 1	23 41	23 41	8 39		n.a.
F 27	23 43	11 31	5 7	20 15	2 7	16 8	2 7	14 51	2 39	7 1	1 22	23 30	0 13	8 41	0 45	20 27	0 26	14 40	17 2	23 41	23 41	8 42		n.a.
S 28	23 42	16 26	4 39	20 38	1 53	16 28	2 5	14 57	2 40	6 58	1 22	23 30	0 13	8 40	0 45	20 27	0 26	14 40	17 2	23 41	23 41	8 45		n.a.
S 29	23 41	20 26	3 53	21 1	1 39	16 48	2 2	15 3	2 41	6 55	1 22	23 30	0 13	8 40	0 45	20 27	0 26	14 41	17 2	23 41	23 41	8 47		n.a.
M30	23n40	23s10	2s53	21n24	1s25	17n 7	2s 0	15s 9	2s41	6n52	1n21	23s30	0n13	8n39	0n45	20s28	0s26	14s41	17s 3	23s41	23s41	8n50		n.a.

Julian Day Number = 1673726.5, Delta T = 03h19m10s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'09, Lahiri = - 5°45'09 Julian Calendar 1 June 131 BCE == Greg. Calendar 29 May 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

JULY 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 22 14	4♋35'48	13♐53	15♊50	25♉26	3♏13	16♍ 2	0°R20	9♍54	1°R30	2♈13	2♑55	2♑47	10♈29	n.a.	T 1
W 2	18 26 10	5°33'09	27°42	17°15	26°35	3°30	16°10	0♑15	9°56	1♒29	2°13	2°R55	2°44	10°35	n.a.	W 2
T 3	18 30 7	6°30'30	11♑16	18°44	27°44	3°48	16°18	0°11	9°58	1°28	2°13	2°55	2°41	10°42	n.a.	T 3
F 4	18 34 3	7°27'52	24°33	20°18	28°53	4° 6	16°26	0° 6	10° 0	1°26	2°14	2°54	2°38	10°49	n.a.	F 4
S 5	18 38 0	8°25'16	7♒31	21°56	0♊ 2	4°25	16°34	0° 2	10° 2	1°25	2°14	2°54	2°35	10°56	n.a.	S 5
S 6	18 41 56	9°22'40	20°12	23°38	1°12	4°45	16°42	29♐58	10° 5	1°23	2°R14	2°53	2°31	11° 2	n.a.	S 6
M 7	18 45 53	10°20'06	2♓36	25°23	2°21	5° 5	16°50	29°53	10° 7	1°22	2°14	2°52	2°28	11° 9	n.a.	M 7
T 8	18 49 49	11°17'33	14°47	27°12	3°31	5°26	16°59	29°49	10° 9	1°20	2°14	2°51	2°25	11°16	n.a.	T 8
W 9	18 53 46	12°15'02	26°48	29° 4	4°41	5°47	17° 7	29°45	10°12	1°19	2°13	2°51	2°22	11°22	n.a.	W 9
T 10	18 57 43	13°12'31	8♈43	0♋58	5°50	6° 9	17°16	29°40	10°14	1°17	2°13	2°D50	2°19	11°29	n.a.	T 10
F 11	19 1 39	14°10'03	20°36	2°55	7° 0	6°31	17°25	29°36	10°17	1°16	2°13	2°50	2°16	11°36	n.a.	F 11
S 12	19 5 36	15° 7'36	2♉33	4°53	8°10	6°54	17°34	29°32	10°19	1°14	2°13	2°51	2°12	11°43	n.a.	S 12
S 13	19 9 32	16° 5'11	14°37	6°53	9°20	7°17	17°43	29°28	10°22	1°12	2°13	2°52	2° 9	11°49	n.a.	S 13
M14	19 13 29	17° 2'47	26°53	8°54	10°31	7°41	17°52	29°24	10°24	1°11	2°13	2°53	2° 6	11°56	n.a.	M14
T 15	19 17 25	18° 0'25	9♊24	10°56	11°41	8° 5	18° 1	29°20	10°27	1° 9	2°13	2°54	2° 3	12° 3	n.a.	T 15
W16	19 21 22	18°58'04	22°13	12°58	12°51	8°30	18°10	29°16	10°30	1° 8	2°12	2°55	2° 0	12° 9	n.a.	W16
T 17	19 25 18	19°55'45	5♋22	15° 1	14° 2	8°55	18°20	29°12	10°32	1° 6	2°12	2°R55	1°56	12°16	n.a.	T 17
F 18	19 29 15	20°53'27	18°50	17° 3	15°12	9°20	18°29	29° 8	10°35	1° 4	2°12	2°55	1°53	12°23	n.a.	F 18
S 19	19 33 12	21°51'11	2♌37	19° 5	16°23	9°47	18°39	29° 4	10°38	1° 3	2°12	2°53	1°50	12°30	n.a.	S 19
S 20	19 37 8	22°48'56	16°39	21° 7	17°34	10°13	18°48	29° 0	10°41	1° 1	2°11	2°51	1°47	12°36	n.a.	S 20
M21	19 41 5	23°46'43	0♍53	23° 7	18°44	10°40	18°58	28°56	10°44	1° 0	2°11	2°48	1°44	12°43	n.a.	M21
T 22	19 45 1	24°44'30	15°13	25° 7	19°55	11° 7	19° 8	28°52	10°46	0°58	2°11	2°45	1°41	12°50	n.a.	T 22
W23	19 48 58	25°42'19	29°35	27° 6	21° 6	11°35	19°18	28°48	10°49	0°56	2°11	2°43	1°37	12°57	n.a.	W23
T 24	19 52 54	26°40'10	13♎55	29° 4	22°17	12° 3	19°28	28°45	10°52	0°55	2°10	2°41	1°34	13° 3	n.a.	T 24
F 25	19 56 51	27°38'01	28° 9	1♌ 1	23°29	12°32	19°38	28°41	10°55	0°53	2°10	2°D41	1°31	13°10	n.a.	F 25
S 26	20 0 47	28°35'55	12♏15	2°57	24°40	13° 1	19°48	28°38	10°58	0°51	2° 9	2°41	1°28	13°17	n.a.	S 26
S 27	20 4 44	29°33'49	26°12	4°51	25°51	13°30	19°59	28°34	11° 1	0°50	2° 9	2°43	1°25	13°23	n.a.	S 27
M28	20 8 41	0♌31'45	9♐58	6°44	27° 3	14° 0	20° 9	28°31	11° 4	0°48	2° 8	2°44	1°22	13°30	n.a.	M28
T 29	20 12 37	1°29'42	23°33	8°36	28°14	14°30	20°20	28°27	11° 7	0°46	2° 8	2°45	1°18	13°37	n.a.	T 29
W30	20 16 34	2°27'41	6♑57	10°27	29°26	15° 1	20°30	28°24	11°11	0°45	2° 8	2°R46	1°15	13°44	n.a.	W30
T 31	20 20 30	3♌25'41	20♑ 7	12♌16	0♋37	15♏31	20♍41	28♐21	11♍14	0♒43	2♈ 7	2♑44	1♑12	13♈50	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n38	24s26	1s44	21n47	1s11	17n26	1s58	15s16	2s42	6n49	1n21	23s30	0n13	8n38	0n45	20s28	0s26	14s41	17s 3	23s41	23s41	8n52			n.a.
W 2	23 36	24 10	0 29	22 9	0 56	17 44	1 56	15 22	2 43	6 45	1 21	23 30	0 13	8 37	0 45	20 28	0 26	14 41	17 3	23 41	23 41	8 55			n.a.
T 3	23 33	22 28	0n46	22 31	0 43	18 3	1 53	15 29	2 44	6 42	1 21	23 30	0 12	8 36	0 45	20 29	0 26	14 42	17 4	23 41	23 41	8 57			n.a.
F 4	23 30	19 32	1 57	22 52	0 29	18 20	1 51	15 36	2 44	6 39	1 20	23 30	0 12	8 36	0 45	20 29	0 26	14 42	17 4	23 41	23 41	9 0			n.a.
S 5	23 26	15 42	3 0	23 12	0 16	18 38	1 48	15 43	2 45	6 35	1 20	23 30	0 12	8 35	0 45	20 29	0 26	14 42	17 4	23 41	23 41	9 3			n.a.
S 6	23 23	11 14	3 53	23 30	0 3	18 55	1 46	15 50	2 45	6 32	1 20	23 31	0 12	8 34	0 45	20 30	0 26	14 43	17 5	23 41	23 41	9 5			n.a.
M 7	23 18	6 25	4 33	23 47	0n 9	19 11	1 43	15 58	2 46	6 29	1 20	23 31	0 12	8 33	0 45	20 30	0 26	14 43	17 5	23 41	23 41	9 8			n.a.
T 8	23 13	1 26	5 1	24 2	0 21	19 27	1 40	16 5	2 46	6 25	1 20	23 31	0 12	8 32	0 45	20 30	0 26	14 43	17 5	23 41	23 41	9 10			n.a.
W 9	23 8	3n31	5 15	24 14	0 32	19 43	1 38	16 13	2 47	6 21	1 19	23 31	0 12	8 31	0 45	20 31	0 26	14 44	17 6	23 41	23 41	9 13			n.a.
T 10	23 3	8 18	5 15	24 25	0 42	19 58	1 35	16 21	2 47	6 18	1 19	23 31	0 12	8 30	0 44	20 31	0 26	14 44	17 6	23 41	23 41	9 15			n.a.
F 11	22 57	12 47	5 1	24 33	0 52	20 13	1 32	16 29	2 48	6 14	1 19	23 31	0 12	8 29	0 44	20 32	0 26	14 44	17 6	23 41	23 41	9 18			n.a.
S 12	22 51	16 47	4 35	24 38	1 1	20 27	1 29	16 37	2 48	6 11	1 19	23 31	0 12	8 28	0 44	20 32	0 26	14 45	17 7	23 41	23 42	9 20			n.a.
S 13	22 44	20 10	3 56	24 41	1 9	20 41	1 26	16 45	2 48	6 7	1 19	23 31	0 11	8 27	0 44	20 32	0 26	14 45	17 7	23 41	23 42	9 23			n.a.
M14	22 37	22 42	3 6	24 41	1 17	20 54	1 24	16 53	2 49	6 3	1 18	23 31	0 11	8 26	0 44	20 33	0 26	14 45	17 7	23 41	23 42	9 25			n.a.
T 15	22 29	24 11	2 6	24 38	1 23	21 7	1 21	17 1	2 49	5 59	1 18	23 31	0 11	8 25	0 44	20 33	0 26	14 46	17 8	23 41	23 42	9 28			n.a.
W16	22 21	24 27	0 59	24 33	1 29	21 19	1 18	17 9	2 49	5 55	1 18	23 31	0 11	8 24	0 44	20 33	0 26	14 46	17 8	23 41	23 42	9 31			n.a.
T 17	22 13	23 23	0s13	24 24	1 34	21 30	1 15	17 18	2 49	5 51	1 18	23 31	0 11	8 23	0 44	20 34	0 26	14 47	17 8	23 41	23 42	9 33			n.a.
F 18	22 4	20 56	1 27	24 14	1 38	21 41	1 12	17 26	2 50	5 47	1 18	23 31	0 11	8 22	0 44	20 34	0 26	14 47	17 9	23 41	23 42	9 36			n.a.
S 19	21 55	17 16	2 36	24 0	1 41	21 52	1 9	17 35	2 50	5 44	1 17	23 32	0 11	8 21	0 44	20 35	0 26	14 47	17 9	23 41	23 42	9 38			n.a.
S 20	21 45	12 34	3 38	23 44	1 44	22 2	1 6	17 44	2 50	5 40	1 17	23 32	0 11	8 20	0 44	20 35	0 26	14 48	17 9	23 41	23 42	9 41			n.a.
M21	21 35	7 8	4 27	23 26	1 46	22 11	1 3	17 53	2 50	5 35	1 17	23 32	0 11	8 18	0 44	20 35	0 26	14 48	17 10	23 41	23 42	9 43			n.a.
T 22	21 25	1 18	5 0	23 6	1 47	22 20	1 0	18 1	2 50	5 31	1 17	23 32	0 11	8 17	0 44	20 36	0 26	14 49	17 10	23 41	23 42	9 46			n.a.
W23	21 15	4s37	5 14	22 44	1 47	22 28	0 56	18 10	2 50	5 27	1 17	23 32	0 11	8 16	0 44	20 36	0 26	14 49	17 10	23 41	23 42	9 48			n.a.
T 24	21 4	10 16	5 8	22 19	1 47	22 36	0 53	18 19	2 50	5 23	1 16	23 32	0 10	8 15	0 44	20 36	0 26	14 49	17 11	23 41	23 42	9 51			n.a.
F 25	20 52	15 20	4 44	21 53	1 46	22 43	0 50	18 28	2 50	5 19	1 16	23 32	0 10	8 14	0 44	20 37	0 26	14 50	17 11	23 41	23 42	9 53			n.a.
S 26	20 40	19 31	4 2	21 25	1 45	22 49	0 47	18 37	2 50	5 15	1 16	23 32	0 10	8 13	0 44	20 37	0 26	14 50	17 11	23 41	23 42	9 56			n.a.
S 27	20 28	22 33	3 7	20 56	1 43	22 55	0 44	18 46	2 50	5 10	1 16	23 32	0 10	8 11	0 44	20 38	0 26	14 51	17 12	23 41	23 42	9 58			n.a.
M28	20 16	24 12	2 2	20 25	1 41	23 0	0 41	18 55	2 50	5 6	1 16	23 32	0 10	8 10	0 44	20 38	0 26	14 51	17 12	23 41	23 42	10 1			n.a.
T 29	20 3	24 23	0 50	19 53	1 38	23 4	0 38	19 4	2 50	5 2	1 16	23 32	0 10	8 9	0 44	20 38	0 26	14 52	17 12	23 41	23 42	10 3			n.a.
W30	19 50	23 9	0n23	19 20	1 35	23 8	0 35	19 13	2 50	4 57	1 15	23 32	0 10	8 8	0 44	20 39	0 26	14 52	17 12	23 41	23 42	10 6			n.a.
T 31	19n37	20s38	1n34	18n46	1n31	23n11	0s31	19s23	2s50	4n53	1n15	23s32	0n10	8n 7	0n44	20s39	0s26	14s53	17s13	23s41	23s42	10n 8			n.a.

Julian Day Number = 1673756.5, Delta T = 03h19m09s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'05, Lahiri = - 5°45'05 Julian Calendar 1 July 131 BCE == Greg. Calendar 28 June 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

AUGUST 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 24 27	4♌23'43	3♒ 5	14♌ 4	1♋49	16♏ 2	20♍52	28°R18	11♍17	0°R42	2°R 7	2°R42	1♉ 9	13♈57	n.a.	F 1
S 2	20 28 23	5°21'47	15°50	15°51	3° 1	16°34	21° 3	28♐15	11°20	0♒40	2♈ 6	2♉37	1° 6	14° 4	n.a.	S 2
S 3	20 32 20	6°19'53	28°22	17°36	4°13	17° 5	21°14	28°11	11°23	0°38	2° 5	2°32	1° 2	14°10	n.a.	S 3
M 4	20 36 16	7°18'00	10♓40	19°21	5°25	17°38	21°25	28° 9	11°27	0°37	2° 5	2°26	0°59	14°17	n.a.	M 4
T 5	20 40 13	8°16'09	22°48	21° 4	6°37	18°10	21°36	28° 6	11°30	0°35	2° 4	2°20	0°56	14°24	n.a.	T 5
W 6	20 44 10	9°14'21	4♈48	22°45	7°49	18°43	21°47	28° 3	11°33	0°33	2° 4	2°15	0°53	14°31	n.a.	W 6
T 7	20 48 6	10°12'34	16°41	24°26	9° 1	19°15	21°58	28° 0	11°37	0°32	2° 3	2°10	0°50	14°37	n.a.	T 7
F 8	20 52 3	11°10'50	28°33	26° 6	10°13	19°49	22° 9	27°58	11°40	0°30	2° 2	2° 8	0°47	14°44	n.a.	F 8
S 9	20 55 59	12° 9'08	10♉28	27°44	11°26	20°22	22°21	27°55	11°43	0°29	2° 2	2°D 7	0°43	14°51	n.a.	S 9
S 10	20 59 56	13° 7'28	22°30	29°21	12°38	20°56	22°32	27°52	11°47	0°27	2° 1	2° 7	0°40	14°58	n.a.	S 10
M11	21 3 52	14° 5'50	4♊45	0♍57	13°51	21°30	22°43	27°50	11°50	0°25	2° 0	2° 8	0°37	15° 4	n.a.	M11
T 12	21 7 49	15° 4'15	17°16	2°32	15° 3	22° 4	22°55	27°48	11°54	0°24	2° 0	2°10	0°34	15°11	n.a.	T 12
W13	21 11 45	16° 2'41	0♋10	4° 5	16°16	22°39	23° 7	27°46	11°57	0°22	1°59	2°R11	0°31	15°18	n.a.	W13
T 14	21 15 42	17° 1'10	13°27	5°38	17°28	23°14	23°18	27°43	12° 1	0°21	1°58	2°10	0°27	15°24	n.a.	T 14
F 15	21 19 39	17°59'41	27°10	7° 9	18°41	23°49	23°30	27°41	12° 4	0°19	1°57	2° 8	0°24	15°31	n.a.	F 15
S 16	21 23 35	18°58'14	11♌17	8°40	19°54	24°24	23°42	27°39	12° 8	0°18	1°57	2° 3	0°21	15°38	n.a.	S 16
S 17	21 27 32	19°56'49	25°44	10° 9	21° 7	25° 0	23°54	27°38	12°11	0°16	1°56	1°57	0°18	15°45	n.a.	S 17
M18	21 31 28	20°55'26	10♍25	11°37	22°20	25°36	24° 6	27°36	12°15	0°15	1°55	1°49	0°15	15°51	n.a.	M18
T 19	21 35 25	21°54'05	25°13	13° 4	23°33	26°12	24°18	27°34	12°19	0°13	1°54	1°42	0°12	15°58	n.a.	T 19
W20	21 39 21	22°52'46	9♎58	14°30	24°46	26°48	24°30	27°32	12°22	0°12	1°53	1°35	0° 8	16° 5	n.a.	W20
T 21	21 43 18	23°51'29	24°35	15°54	25°59	27°25	24°42	27°31	12°26	0°10	1°52	1°29	0° 5	16°11	n.a.	T 21
F 22	21 47 14	24°50'13	8♏58	17°18	27°13	28° 1	24°54	27°30	12°30	0° 9	1°52	1°26	0° 2	16°18	n.a.	F 22
S 23	21 51 11	25°49'00	23° 4	18°40	28°26	28°38	25° 6	27°28	12°33	0° 7	1°51	1°D25	29♐59	16°25	n.a.	S 23
S 24	21 55 7	26°47'48	6♐52	20° 1	29°39	29°15	25°18	27°27	12°37	0° 6	1°50	1°25	29°56	16°32	n.a.	S 24
M25	21 59 4	27°46'38	20°24	21°20	0♌53	29°53	25°31	27°26	12°41	0° 4	1°49	1°26	29°53	16°38	n.a.	M25
T 26	22 3 1	28°45'29	3♉39	22°39	2° 6	0♐30	25°43	27°25	12°44	0° 3	1°48	1°R27	29°49	16°45	n.a.	T 26
W27	22 6 57	29°44'23	16°41	23°55	3°20	1° 8	25°55	27°24	12°48	0° 2	1°47	1°25	29°46	16°52	n.a.	W27
T 28	22 10 54	0♍43'19	29°30	25°11	4°33	1°46	26° 8	27°23	12°52	0° 0	1°46	1°22	29°43	16°58	n.a.	T 28
F 29	22 14 50	1°42'16	12♒ 9	26°24	5°47	2°24	26°20	27°22	12°55	29♉59	1°45	1°16	29°40	17° 5	n.a.	F 29
S 30	22 18 47	2°41'15	24°37	27°37	7° 1	3° 3	26°33	27°22	12°59	29°57	1°44	1° 7	29°37	17°12	n.a.	S 30
S 31	22 22 43	3♍40'17	6♓56	28♍47	8♌14	3♐41	26♍45	27♐21	13♍ 3	29♉56	1♈43	0♉57	29♐33	17♈19	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n23	17s 8	2n38	18n11	1n27	23n14	0s28	19s32	2s50	4n49	1n15	23s32	0n10	8n 5	0n44	20s39	0s26	14s53	17s13	23s41	23s42	10n11		n.a.
S 2	19 9	12 53	3 33	17 34	1 22	23 15	0 25	19 41	2 50	4 44	1 15	23 32	0 10	8 4	0 44	20 40	0 26	14 54	17 13	23 41	23 42	10 13		n.a.
S 3	18 54	8 9	4 17	16 57	1 17	23 17	0 22	19 50	2 49	4 40	1 15	23 32	0 9	8 3	0 44	20 40	0 26	14 54	17 14	23 41	23 42	10 15		n.a.
M 4	18 39	3 12	4 49	16 20	1 12	23 17	0 19	19 59	2 49	4 35	1 15	23 33	0 9	8 1	0 44	20 40	0 26	14 55	17 14	23 41	23 42	10 18		n.a.
T 5	18 24	1n48	5 6	15 42	1 7	23 17	0 16	20 8	2 49	4 31	1 15	23 33	0 9	8 0	0 44	20 41	0 26	14 55	17 14	23 41	23 42	10 20		n.a.
W 6	18 9	6 39	5 10	15 3	1 1	23 16	0 13	20 17	2 49	4 26	1 14	23 33	0 9	7 59	0 44	20 41	0 26	14 56	17 14	23 42	23 42	10 23		n.a.
T 7	17 53	11 15	5 1	14 23	0 55	23 14	0 10	20 26	2 48	4 21	1 14	23 33	0 9	7 58	0 44	20 42	0 26	14 56	17 15	23 42	23 43	10 25		n.a.
F 8	17 37	15 24	4 38	13 44	0 49	23 12	0 7	20 35	2 48	4 17	1 14	23 33	0 9	7 56	0 44	20 42	0 26	14 57	17 15	23 42	23 43	10 28		n.a.
S 9	17 21	18 59	4 4	13 4	0 42	23 9	0 4	20 44	2 48	4 12	1 14	23 33	0 9	7 55	0 44	20 42	0 26	14 57	17 15	23 42	23 43	10 30		n.a.
S 10	17 4	21 48	3 18	12 23	0 36	23 6	0 1	20 53	2 48	4 7	1 14	23 33	0 9	7 54	0 44	20 43	0 26	14 58	17 16	23 42	23 43	10 33		n.a.
M11	16 47	23 40	2 23	11 43	0 29	23 1	0n 2	21 2	2 47	4 3	1 14	23 33	0 9	7 52	0 44	20 43	0 26	14 58	17 16	23 42	23 43	10 35		n.a.
T 12	16 30	24 25	1 20	11 2	0 22	22 56	0 5	21 11	2 47	3 58	1 14	23 33	0 9	7 51	0 44	20 43	0 26	14 59	17 16	23 42	23 43	10 38		n.a.
W13	16 12	23 54	0 11	10 21	0 15	22 51	0 8	21 19	2 47	3 53	1 13	23 33	0 8	7 50	0 44	20 44	0 26	14 59	17 16	23 42	23 43	10 40		n.a.
T 14	15 55	22 1	1s 1	9 40	0 7	22 44	0 11	21 28	2 46	3 48	1 13	23 33	0 8	7 48	0 44	20 44	0 26	15 0	17 17	23 42	23 43	10 42		n.a.
F 15	15 37	18 50	2 11	8 59	0s 0	22 37	0 14	21 37	2 46	3 44	1 13	23 33	0 8	7 47	0 44	20 44	0 26	15 0	17 17	23 42	23 43	10 45		n.a.
S 16	15 18	14 28	3 15	8 18	0 8	22 30	0 17	21 45	2 46	3 39	1 13	23 33	0 8	7 45	0 44	20 45	0 26	15 1	17 17	23 42	23 43	10 47		n.a.
S 17	15 0	9 12	4 8	7 37	0 15	22 21	0 20	21 54	2 45	3 34	1 13	23 33	0 8	7 44	0 43	20 45	0 26	15 1	17 17	23 42	23 43	10 50		n.a.
M18	14 41	3 21	4 46	6 56	0 23	22 12	0 23	22 2	2 45	3 29	1 13	23 33	0 8	7 43	0 43	20 45	0 26	15 2	17 18	23 42	23 43	10 52		n.a.
T 19	14 22	2s44	5 5	6 15	0 31	22 3	0 25	22 11	2 44	3 24	1 13	23 33	0 8	7 41	0 43	20 46	0 26	15 2	17 18	23 42	23 43	10 55		n.a.
W20	14 3	8 38	5 3	5 35	0 39	21 52	0 28	22 19	2 44	3 19	1 13	23 34	0 8	7 40	0 43	20 46	0 26	15 3	17 18	23 42	23 43	10 57		n.a.
T 21	13 43	14 0	4 42	4 54	0 47	21 41	0 31	22 27	2 43	3 14	1 12	23 34	0 8	7 38	0 43	20 46	0 26	15 3	17 18	23 42	23 43	10 59		n.a.
F 22	13 23	18 29	4 4	4 14	0 55	21 30	0 33	22 35	2 43	3 9	1 12	23 34	0 8	7 37	0 43	20 47	0 26	15 4	17 18	23 42	23 43	11 2		n.a.
S 23	13 3	21 49	3 11	3 35	1 3	21 18	0 36	22 43	2 42	3 4	1 12	23 34	0 7	7 36	0 43	20 47	0 26	15 4	17 19	23 42	23 43	11 4		n.a.
S 24	12 43	23 48	2 8	2 55	1 11	21 5	0 38	22 51	2 42	2 59	1 12	23 34	0 7	7 34	0 43	20 47	0 26	15 5	17 19	23 42	23 43	11 7		n.a.
M25	12 23	24 20	0 59	2 16	1 18	20 51	0 41	22 59	2 41	2 54	1 12	23 34	0 7	7 33	0 43	20 48	0 26	15 6	17 19	23 42	23 43	11 9		n.a.
T 26	12 2	23 28	0n12	1 38	1 26	20 37	0 43	23 6	2 41	2 49	1 12	23 34	0 7	7 31	0 43	20 48	0 26	15 6	17 19	23 42	23 43	11 11		n.a.
W27	11 41	21 19	1 21	1 0	1 34	20 22	0 46	23 14	2 40	2 44	1 12	23 34	0 7	7 30	0 43	20 48	0 26	15 7	17 19	23 42	23 43	11 14		n.a.
T 28	11 21	18 8	2 24	0 23	1 42	20 7	0 48	23 21	2 40	2 39	1 12	23 34	0 7	7 28	0 43	20 49	0 26	15 7	17 20	23 42	23 43	11 16		n.a.
F 29	10 59	14 10	3 19	0s14	1 50	19 51	0 50	23 28	2 39	2 34	1 12	23 34	0 7	7 27	0 43	20 49	0 26	15 8	17 20	23 42	23 43	11 18		n.a.
S 30	10 38	9 38	4 4	0 50	1 58	19 35	0 52	23 36	2 38	2 29	1 12	23 34	0 7	7 25	0 43	20 49	0 26	15 8	17 20	23 42	23 43	11 21		n.a.
S 31	10n16	4s47	4n37	1s25	2s 5	19n17	0n55	23s43	2s38	2n24	1n11	23s34	0n 7	7n24	0n43	20s49	0s26	15s 9	17s20	23s42	23s43	11n23		n.a.

Julian Day Number = 1673787.5, Delta T = 03h19m08s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°52'01, Lahiri = - 5°45'00 Julian Calendar 1 Aug. 131 BCE == Greg. Calendar 29 July 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

SEPTEMBER 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 26 40	4♍39'21	19♓ 7	29♍55	9♌28	4♐20	26♍58	27°R21	13♍ 7	29°R55	1°R42	0°R45	29♐30	17♈25	n.a.	M 1
T 2	22 30 36	5°38'26	1♈ 9	1♎ 2	10°42	4°58	27°10	27♐20	13°10	29♑54	1♈41	0♑32	29°27	17°32	n.a.	T 2
W 3	22 34 33	6°37'34	13° 5	2° 6	11°56	5°37	27°23	27°20	13°14	29°52	1°40	0°21	29°24	17°39	n.a.	W 3
T 4	22 38 30	7°36'45	24°56	3° 8	13°10	6°17	27°36	27°20	13°18	29°51	1°39	0°12	29°21	17°45	n.a.	T 4
F 5	22 42 26	8°35'58	6♉46	4° 8	14°24	6°56	27°48	27°D20	13°22	29°50	1°38	0° 5	29°18	17°52	n.a.	F 5
S 6	22 46 23	9°35'13	18°39	5° 5	15°38	7°35	28° 1	27°20	13°26	29°49	1°37	29♐59	29°14	17°59	n.a.	S 6
S 7	22 50 19	10°34'30	0♊38	5°59	16°52	8°15	28°14	27°20	13°29	29°48	1°36	29°58	29°11	18° 6	n.a.	S 7
M 8	22 54 16	11°33'50	12°49	6°49	18° 7	8°55	28°27	27°20	13°33	29°47	1°35	29°D57	29° 8	18°12	n.a.	M 8
T 9	22 58 12	12°33'13	25°17	7°37	19°21	9°35	28°40	27°21	13°37	29°45	1°34	29°R58	29° 5	18°19	n.a.	T 9
W10	23 2 9	13°32'38	8♋ 7	8°20	20°35	10°15	28°53	27°21	13°41	29°44	1°33	29°57	29° 2	18°26	n.a.	W10
T 11	23 6 5	14°32'05	21°23	8°59	21°50	10°55	29° 5	27°22	13°44	29°43	1°32	29°56	28°59	18°32	n.a.	T 11
F 12	23 10 2	15°31'35	5♌ 8	9°34	23° 4	11°35	29°18	27°22	13°48	29°42	1°31	29°52	28°55	18°39	n.a.	F 12
S 13	23 13 59	16°31'07	19°23	10° 3	24°18	12°16	29°31	27°23	13°52	29°41	1°30	29°45	28°52	18°46	n.a.	S 13
S 14	23 17 55	17°30'41	4♍ 3	10°27	25°33	12°56	29°44	27°24	13°56	29°40	1°28	29°36	28°49	18°53	n.a.	S 14
M15	23 21 52	18°30'17	19° 3	10°45	26°47	13°37	29°57	27°25	14° 0	29°39	1°27	29°25	28°46	18°59	n.a.	M15
T 16	23 25 48	19°29'56	4♎13	10°57	28° 2	14°18	0♎10	27°26	14° 3	29°38	1°26	29°13	28°43	19° 6	n.a.	T 16
W17	23 29 45	20°29'36	19°22	11°R 1	29°17	14°59	0°23	27°27	14° 7	29°37	1°25	29° 3	28°39	19°13	n.a.	W17
T 18	23 33 41	21°29'19	4♏20	10°58	0♍31	15°40	0°36	27°28	14°11	29°37	1°24	28°55	28°36	19°19	n.a.	T 18
F 19	23 37 38	22°29'03	19° 0	10°47	1°46	16°21	0°50	27°30	14°15	29°36	1°23	28°49	28°33	19°26	n.a.	F 19
S 20	23 41 34	23°28'49	3♐17	10°28	3° 1	17° 2	1° 3	27°31	14°18	29°35	1°22	28°46	28°30	19°33	n.a.	S 20
S 21	23 45 31	24°28'37	17° 8	10° 0	4°16	17°44	1°16	27°33	14°22	29°34	1°21	28°45	28°27	19°40	n.a.	S 21
M22	23 49 27	25°28'27	0♑37	9°23	5°30	18°25	1°29	27°34	14°26	29°33	1°19	28°45	28°24	19°46	n.a.	M22
T 23	23 53 24	26°28'19	13°44	8°37	6°45	19° 7	1°42	27°36	14°30	29°33	1°18	28°44	28°20	19°53	n.a.	T 23
W24	23 57 21	27°28'12	26°33	7°43	8° 0	19°49	1°55	27°38	14°33	29°32	1°17	28°42	28°17	20° 0	n.a.	W24
T 25	0 1 17	28°28'07	9♒ 8	6°41	9°15	20°31	2° 8	27°40	14°37	29°31	1°16	28°38	28°14	20° 6	n.a.	T 25
F 26	0 5 14	29°28'04	21°31	5°33	10°30	21°13	2°21	27°42	14°41	29°31	1°15	28°30	28°11	20°13	n.a.	F 26
S 27	0 9 10	0♎28'03	3♓46	4°20	11°45	21°55	2°35	27°44	14°45	29°30	1°14	28°20	28° 8	20°20	n.a.	S 27
S 28	0 13 7	1°28'03	15°53	3° 4	13° 0	22°37	2°48	27°46	14°48	29°29	1°13	28° 7	28° 4	20°27	n.a.	S 28
M29	0 17 3	2°28'06	27°54	1°47	14°15	23°19	3° 1	27°49	14°52	29°29	1°11	27°52	28° 1	20°33	n.a.	M29
T 30	0 21 0	3♎28'10	9♈51	0♎31	15♍30	24♐ 1	3♎14	27♐51	14♍56	29♑28	1♈10	27♐38	27♐58	20♈40	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n55	0n11	4n56	1s59	2s12	19n 0	0n57	23s49	2s37	2n19	1n11	23s34	0n 7	7n22	0n43	20s50	0s26	15s 9	17s20	23s43	23s43	11n26		n.a.
T 2	9 33	5 4	5 2	2 33	2 20	18 42	0 59	23 56	2 37	2 14	1 11	23 35	0 6	7 21	0 43	20 50	0 26	15 10	17 20	23 43	23 43	11 28		n.a.
W 3	9 11	9 44	4 55	3 5	2 27	18 23	1 1	24 3	2 36	2 8	1 11	23 35	0 6	7 20	0 43	20 50	0 26	15 10	17 21	23 43	23 43	11 30		n.a.
T 4	8 49	14 1	4 35	3 36	2 34	18 3	1 3	24 9	2 35	2 3	1 11	23 35	0 6	7 18	0 43	20 51	0 26	15 11	17 21	23 43	23 43	11 33		n.a.
F 5	8 26	17 45	4 3	4 6	2 40	17 44	1 5	24 15	2 35	1 58	1 11	23 35	0 6	7 17	0 43	20 51	0 26	15 11	17 21	23 43	23 43	11 35		n.a.
S 6	8 4	20 47	3 21	4 35	2 47	17 23	1 7	24 21	2 34	1 53	1 11	23 35	0 6	7 15	0 43	20 51	0 26	15 12	17 21	23 43	23 43	11 37		n.a.
S 7	7 41	22 57	2 29	5 2	2 52	17 2	1 8	24 27	2 33	1 48	1 11	23 35	0 6	7 14	0 43	20 51	0 26	15 13	17 21	23 43	23 43	11 40		n.a.
M 8	7 18	24 5	1 30	5 28	2 58	16 41	1 10	24 33	2 33	1 42	1 11	23 35	0 6	7 12	0 43	20 52	0 26	15 13	17 21	23 43	23 42	11 42		n.a.
T 9	6 55	24 2	0 25	5 51	3 3	16 19	1 12	24 38	2 32	1 37	1 11	23 35	0 6	7 11	0 43	20 52	0 26	15 14	17 21	23 43	23 42	11 44		n.a.
W10	6 32	22 45	0s43	6 13	3 8	15 57	1 13	24 44	2 31	1 32	1 11	23 35	0 6	7 9	0 43	20 52	0 26	15 14	17 21	23 43	23 42	11 47		n.a.
T 11	6 9	20 10	1 51	6 32	3 12	15 34	1 15	24 49	2 31	1 27	1 11	23 35	0 6	7 8	0 43	20 52	0 26	15 15	17 21	23 43	23 42	11 49		n.a.
F 12	5 46	16 22	2 55	6 49	3 16	15 11	1 16	24 54	2 30	1 21	1 11	23 36	0 6	7 6	0 43	20 52	0 26	15 15	17 22	23 43	23 42	11 51		n.a.
S 13	5 23	11 32	3 50	7 4	3 19	14 47	1 18	24 59	2 29	1 16	1 11	23 36	0 5	7 5	0 43	20 53	0 26	15 16	17 22	23 43	23 42	11 54		n.a.
S 14	4 59	5 55	4 32	7 15	3 21	14 23	1 19	25 3	2 28	1 11	1 10	23 36	0 5	7 3	0 43	20 53	0 26	15 16	17 22	23 43	23 42	11 56		n.a.
M15	4 36	0s 9	4 56	7 23	3 22	13 59	1 20	25 8	2 28	1 6	1 10	23 36	0 5	7 2	0 43	20 53	0 26	15 17	17 22	23 43	23 42	11 58		n.a.
T 16	4 12	6 16	4 59	7 28	3 22	13 34	1 21	25 12	2 27	1 0	1 10	23 36	0 5	7 0	0 43	20 53	0 26	15 17	17 22	23 43	23 42	12 1		n.a.
W17	3 48	12 0	4 42	7 29	3 21	13 8	1 22	25 16	2 26	0 55	1 10	23 36	0 5	6 59	0 43	20 53	0 26	15 18	17 22	23 42	23 42	12 3		n.a.
T 18	3 25	16 57	4 6	7 26	3 19	12 43	1 23	25 20	2 25	0 50	1 10	23 36	0 5	6 57	0 43	20 54	0 26	15 18	17 22	23 42	23 42	12 5		n.a.
F 19	3 1	20 46	3 13	7 18	3 15	12 17	1 24	25 24	2 24	0 44	1 10	23 36	0 5	6 56	0 43	20 54	0 26	15 19	17 22	23 42	23 42	12 8		n.a.
S 20	2 37	23 11	2 10	7 6	3 10	11 50	1 25	25 27	2 24	0 39	1 10	23 36	0 5	6 55	0 43	20 54	0 26	15 19	17 22	23 42	23 42	12 10		n.a.
S 21	2 13	24 6	1 1	6 48	3 3	11 24	1 26	25 30	2 23	0 34	1 10	23 37	0 5	6 53	0 43	20 54	0 26	15 20	17 22	23 42	23 42	12 12		n.a.
M22	1 49	23 33	0n10	6 26	2 55	10 57	1 27	25 33	2 22	0 28	1 10	23 37	0 5	6 52	0 43	20 54	0 26	15 20	17 22	23 42	23 42	12 15		n.a.
T 23	1 25	21 42	1 18	5 58	2 45	10 29	1 28	25 36	2 21	0 23	1 10	23 37	0 5	6 50	0 43	20 54	0 26	15 21	17 22	23 42	23 42	12 17		n.a.
W24	1 1	18 46	2 21	5 25	2 32	10 2	1 28	25 39	2 20	0 18	1 10	23 37	0 4	6 49	0 43	20 55	0 26	15 21	17 22	23 42	23 42	12 19		n.a.
T 25	0 37	15 2	3 16	4 48	2 18	9 34	1 29	25 41	2 19	0 13	1 10	23 37	0 4	6 47	0 43	20 55	0 26	15 21	17 22	23 42	23 42	12 21		n.a.
F 26	0 13	10 42	4 0	4 6	2 2	9 5	1 29	25 43	2 18	0 7	1 10	23 37	0 4	6 46	0 43	20 55	0 26	15 22	17 22	23 42	23 42	12 24		n.a.
S 27	0s11	6 0	4 33	3 20	1 45	8 37	1 30	25 45	2 18	0 2	1 10	23 37	0 4	6 44	0 43	20 55	0 26	15 22	17 22	23 42	23 42	12 26		n.a.
S 28	0 35	1 8	4 53	2 32	1 26	8 8	1 30	25 47	2 17	0s 3	1 10	23 37	0 4	6 43	0 43	20 55	0 26	15 23	17 22	23 42	23 42	12 28		n.a.
M29	1 0	3n43	4 59	1 43	1 6	7 39	1 30	25 48	2 16	0 9	1 10	23 38	0 4	6 42	0 43	20 55	0 26	15 23	17 22	23 42	23 42	12 31		n.a.
T 30	1s24	8n25	4n53	0s54	0s45	7n10	1n31	25s49	2s15	0s14	1n10	23s38	0n 4	6n40	0n43	20s55	0s26	15s24	17s22	23s41	23s42	12n33		n.a.

Julian Day Number = 1673818.5, Delta T = 03h19m07s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'57, Lahiri = - 5°44'56 Julian Calendar 1 Sept. 131 BCE == Greg. Calendar 29 Aug. 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

OCTOBER 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 24 56	4♎28'16	21♈44	29°R20	16♍45	24♐44	3♎27	27♐54	14♍59	29°R28	1°R 9	27°R24	27♐55	20♈47	n.a.	W 1
T 2	0 28 53	5°28'25	3♉34	28♍15	18° 0	25°26	3°40	27°56	15° 3	29♑28	1♈ 8	27♐12	27°52	20°53	n.a.	T 2
F 3	0 32 50	6°28'35	15°25	27°17	19°15	26° 9	3°54	27°59	15° 6	29°27	1° 7	27° 3	27°49	21° 0	n.a.	F 3
S 4	0 36 46	7°28'48	27°18	26°30	20°30	26°51	4° 7	28° 2	15°10	29°27	1° 6	26°56	27°45	21° 7	n.a.	S 4
S 5	0 40 43	8°29'03	9♊17	25°53	21°46	27°34	4°20	28° 5	15°14	29°26	1° 5	26°53	27°42	21°14	n.a.	S 5
M 6	0 44 39	9°29'19	21°26	25°27	23° 1	28°17	4°33	28° 8	15°17	29°26	1° 3	26°52	27°39	21°20	n.a.	M 6
T 7	0 48 36	10°29'38	3♋51	25°14	24°16	28°59	4°46	28°11	15°21	29°26	1° 2	26°D52	27°36	21°27	n.a.	T 7
W 8	0 52 32	11°29'59	16°35	25°D11	25°31	29°42	4°59	28°14	15°24	29°26	1° 1	26°R52	27°33	21°34	n.a.	W 8
T 9	0 56 29	12°30'23	29°44	25°20	26°47	0♑25	5°13	28°17	15°28	29°25	1° 0	26°51	27°30	21°40	n.a.	T 9
F 10	1 0 25	13°30'48	13♌22	25°40	28° 2	1° 8	5°26	28°21	15°31	29°25	0°59	26°47	27°26	21°47	n.a.	F 10
S 11	1 4 22	14°31'15	27°30	26° 9	29°17	1°51	5°39	28°24	15°35	29°25	0°58	26°42	27°23	21°54	n.a.	S 11
S 12	1 8 19	15°31'44	12♍ 7	26°47	0♎33	2°35	5°52	28°28	15°38	29°25	0°57	26°33	27°20	22° 1	n.a.	S 12
M13	1 12 15	16°32'15	27° 8	27°32	1°48	3°18	6° 5	28°31	15°41	29°25	0°56	26°23	27°17	22° 7	n.a.	M13
T 14	1 16 12	17°32'48	12♎24	28°25	3° 3	4° 1	6°18	28°35	15°45	29°25	0°55	26°13	27°14	22°14	n.a.	T 14
W15	1 20 8	18°33'22	27°45	29°24	4°19	4°45	6°31	28°39	15°48	29°D25	0°53	26° 3	27°10	22°21	n.a.	W15
T 16	1 24 5	19°33'59	12♏58	0♎29	5°34	5°28	6°44	28°42	15°51	29°25	0°52	25°54	27° 7	22°27	n.a.	T 16
F 17	1 28 1	20°34'36	27°54	1°38	6°50	6°11	6°57	28°46	15°55	29°25	0°51	25°49	27° 4	22°34	n.a.	F 17
S 18	1 31 58	21°35'16	12♐26	2°51	8° 5	6°55	7°10	28°50	15°58	29°25	0°50	25°46	27° 1	22°41	n.a.	S 18
S 19	1 35 54	22°35'56	26°30	4° 7	9°21	7°38	7°23	28°55	16° 1	29°25	0°49	25°D45	26°58	22°48	n.a.	S 19
M20	1 39 51	23°36'38	10♑ 6	5°27	10°36	8°22	7°36	28°59	16° 5	29°25	0°48	25°46	26°55	22°54	n.a.	M20
T 21	1 43 48	24°37'21	23°16	6°49	11°52	9° 6	7°49	29° 3	16° 8	29°25	0°47	25°R46	26°51	23° 1	n.a.	T 21
W22	1 47 44	25°38'05	6♒ 4	8°13	13° 7	9°49	8° 2	29° 7	16°11	29°26	0°46	25°46	26°48	23° 8	n.a.	W22
T 23	1 51 41	26°38'50	18°34	9°39	14°23	10°33	8°15	29°12	16°14	29°26	0°45	25°43	26°45	23°14	n.a.	T 23
F 24	1 55 37	27°39'37	0♓50	11° 6	15°38	11°17	8°28	29°16	16°17	29°26	0°44	25°38	26°42	23°21	n.a.	F 24
S 25	1 59 34	28°40'24	12°56	12°35	16°54	12° 1	8°41	29°21	16°20	29°26	0°43	25°31	26°39	23°28	n.a.	S 25
S 26	2 3 30	29°41'13	24°55	14° 4	18° 9	12°45	8°53	29°25	16°23	29°27	0°42	25°21	26°36	23°35	n.a.	S 26
M27	2 7 27	0♏42'03	6♈49	15°34	19°25	13°29	9° 6	29°30	16°26	29°27	0°41	25°10	26°32	23°41	n.a.	M27
T 28	2 11 23	1°42'54	18°42	17° 5	20°40	14°12	9°19	29°35	16°29	29°28	0°40	24°59	26°29	23°48	n.a.	T 28
W29	2 15 20	2°43'46	0♉33	18°37	21°56	14°56	9°31	29°40	16°32	29°28	0°39	24°49	26°26	23°55	n.a.	W29
T 30	2 19 16	3°44'39	12°26	20° 9	23°11	15°40	9°44	29°45	16°35	29°29	0°38	24°40	26°23	24° 1	n.a.	T 30
F 31	2 23 13	4♏45'34	24♉21	21♎41	24♎27	16♑24	9♎57	29♐50	16♍38	29♑29	0♈37	24♐33	26♐20	24♈ 8	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	1 s48	12n46	4n33	0 s 7	0 s25	6n41	1n31	25 s50	2 s14	0 s19	1n10	23 s38	0n 4	6n39	0n43	20 s55	0 s26	15 s24	17 s22	23 s41	23 s42	12n35			n.a.
T 2	2 12	16 38	4 2	0n38	0 4	6 11	1 31	25 51	2 13	0 25	1 10	23 38	0 4	6 37	0 43	20 56	0 26	15 25	17 22	23 41	23 42	12 37			n.a.
F 3	2 36	19 50	3 20	1 20	0n15	5 41	1 31	25 51	2 12	0 30	1 10	23 38	0 4	6 36	0 43	20 56	0 26	15 25	17 22	23 41	23 42	12 40			n.a.
S 4	3 0	22 12	2 30	1 56	0 34	5 11	1 31	25 52	2 11	0 35	1 10	23 38	0 4	6 35	0 43	20 56	0 26	15 25	17 22	23 41	23 42	12 42			n.a.
S 5	3 24	23 36	1 32	2 26	0 52	4 41	1 30	25 52	2 10	0 41	1 10	23 38	0 3	6 33	0 43	20 56	0 26	15 26	17 22	23 40	23 41	12 44			n.a.
M 6	3 48	23 55	0 29	2 51	1 7	4 11	1 30	25 52	2 10	0 46	1 10	23 38	0 3	6 32	0 43	20 56	0 26	15 26	17 22	23 40	23 41	12 46			n.a.
T 7	4 12	23 2	0s37	3 10	1 21	3 41	1 30	25 51	2 9	0 51	1 10	23 39	0 3	6 30	0 43	20 56	0 26	15 27	17 22	23 40	23 41	12 49			n.a.
W 8	4 36	20 58	1 43	3 22	1 34	3 10	1 30	25 50	2 8	0 56	1 10	23 39	0 3	6 29	0 43	20 56	0 26	15 27	17 22	23 40	23 41	12 51			n.a.
T 9	5 0	17 45	2 45	3 28	1 44	2 39	1 29	25 49	2 7	1 2	1 10	23 39	0 3	6 28	0 44	20 56	0 26	15 27	17 22	23 40	23 41	12 53			n.a.
F 10	5 24	13 29	3 40	3 28	1 53	2 9	1 29	25 48	2 6	1 7	1 10	23 39	0 3	6 26	0 44	20 56	0 26	15 28	17 22	23 40	23 41	12 55			n.a.
S 11	5 47	8 21	4 24	3 23	2 1	1 38	1 28	25 47	2 5	1 12	1 10	23 39	0 3	6 25	0 44	20 56	0 26	15 28	17 21	23 40	23 41	12 57			n.a.
S 12	6 11	2 35	4 53	3 14	2 6	1 7	1 28	25 45	2 4	1 17	1 10	23 39	0 3	6 24	0 44	20 56	0 26	15 28	17 21	23 40	23 41	13 0			n.a.
M13	6 34	3s27	5 2	2 59	2 11	0 36	1 27	25 43	2 3	1 23	1 10	23 39	0 3	6 22	0 44	20 56	0 26	15 29	17 21	23 40	23 41	13 2			n.a.
T 14	6 58	9 24	4 50	2 41	2 14	0 5	1 26	25 41	2 2	1 28	1 10	23 40	0 3	6 21	0 44	20 56	0 26	15 29	17 21	23 39	23 41	13 4			n.a.
W15	7 21	14 47	4 18	2 19	2 16	0s26	1 25	25 38	2 1	1 33	1 10	23 40	0 3	6 20	0 44	20 56	0 26	15 29	17 21	23 39	23 41	13 6			n.a.
T 16	7 44	19 11	3 27	1 53	2 16	0 57	1 24	25 36	2 0	1 38	1 10	23 40	0 3	6 18	0 44	20 56	0 26	15 30	17 21	23 39	23 41	13 9			n.a.
F 17	8 7	22 14	2 23	1 25	2 16	1 28	1 23	25 33	1 59	1 43	1 10	23 40	0 2	6 17	0 44	20 56	0 26	15 30	17 21	23 39	23 41	13 11			n.a.
S 18	8 30	23 42	1 10	0 55	2 15	1 59	1 23	25 30	1 58	1 49	1 10	23 40	0 2	6 16	0 44	20 56	0 26	15 30	17 21	23 39	23 41	13 13			n.a.
S 19	8 53	23 36	0n 4	0 22	2 13	2 30	1 21	25 26	1 57	1 54	1 10	23 40	0 2	6 15	0 44	20 56	0 26	15 31	17 20	23 39	23 41	13 15			n.a.
M20	9 16	22 4	1 16	0s12	2 10	3 1	1 20	25 22	1 56	1 59	1 10	23 40	0 2	6 13	0 44	20 56	0 26	15 31	17 20	23 39	23 40	13 17			n.a.
T 21	9 39	19 22	2 21	0 47	2 7	3 32	1 19	25 19	1 55	2 4	1 10	23 40	0 2	6 12	0 44	20 56	0 26	15 31	17 20	23 39	23 40	13 19			n.a.
W22	10 1	15 46	3 18	1 24	2 3	4 3	1 18	25 14	1 54	2 9	1 10	23 40	0 2	6 11	0 44	20 56	0 26	15 31	17 20	23 39	23 40	13 22			n.a.
T 23	10 23	11 35	4 4	2 2	1 59	4 33	1 17	25 10	1 53	2 14	1 10	23 41	0 2	6 10	0 44	20 56	0 26	15 32	17 20	23 38	23 40	13 24			n.a.
F 24	10 46	6 59	4 37	2 41	1 55	5 4	1 15	25 5	1 52	2 19	1 10	23 41	0 2	6 9	0 44	20 56	0 26	15 32	17 20	23 38	23 40	13 26			n.a.
S 25	11 7	2 12	4 57	3 21	1 50	5 34	1 14	25 0	1 51	2 24	1 10	23 41	0 2	6 7	0 44	20 56	0 26	15 32	17 19	23 38	23 40	13 28			n.a.
S 26	11 29	2n36	5 5	4 1	1 44	6 5	1 12	24 55	1 50	2 29	1 10	23 41	0 2	6 6	0 44	20 56	0 26	15 32	17 19	23 38	23 40	13 30			n.a.
M27	11 51	7 18	4 59	4 41	1 39	6 35	1 11	24 50	1 49	2 34	1 10	23 41	0 2	6 5	0 44	20 56	0 26	15 33	17 19	23 37	23 40	13 33			n.a.
T 28	12 12	11 42	4 39	5 22	1 33	7 5	1 9	24 44	1 48	2 39	1 10	23 41	0 2	6 4	0 44	20 55	0 26	15 33	17 19	23 37	23 40	13 35			n.a.
W29	12 33	15 40	4 8	6 2	1 27	7 35	1 8	24 38	1 47	2 44	1 10	23 41	0 1	6 3	0 44	20 55	0 26	15 33	17 19	23 36	23 40	13 37			n.a.
T 30	12 54	19 0	3 26	6 43	1 20	8 5	1 6	24 32	1 46	2 49	1 10	23 41	0 1	6 2	0 44	20 55	0 26	15 33	17 18	23 36	23 40	13 39			n.a.
F 31	13 s15	21n34	2n35	7 s24	1n14	8 s35	1n 4	24 s26	1 s45	2 s54	1n10	23 s41	0n 1	6n 1	0n44	20 s55	0 s26	15 s33	17 s18	23 s36	23 s40	13n41			n.a.

Julian Day Number = 1673848.5, Delta T = 03h19m06s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'53, Lahiri = - 5°44'52 Julian Calendar 1 Oct. 131 BCE == Greg. Calendar 28 Sept. 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

NOVEMBER 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 10	5♏46'30	6♊20	23♎14	25♎42	17♑ 8	10♎ 9	29♐55	16♍41	29♑30	0°R36	24°R29	26♐16	24♈15	n.a.	S 1
S 2	2 31 6	6°47'28	18°25	24°47	26°58	17°52	10°22	29°59	16°43	29°30	0♈36	24♐27	26°13	24°21	n.a.	S 2
M 3	2 35 3	7°48'27	0♋40	26°20	28°14	18°37	10°34	0♑ 5	16°46	29°31	0°35	24°D27	26°10	24°28	n.a.	M 3
T 4	2 38 59	8°49'27	13° 8	27°53	29°29	19°21	10°47	0°10	16°49	29°32	0°34	24°28	26° 7	24°35	n.a.	T 4
W 5	2 42 56	9°50'28	25°52	29°26	0♏45	20° 5	10°59	0°16	16°51	29°32	0°33	24°29	26° 4	24°42	n.a.	W 5
T 6	2 46 52	10°51'31	8♌57	0♏59	2° 0	20°49	11°11	0°21	16°54	29°33	0°32	24°R30	26° 1	24°48	n.a.	T 6
F 7	2 50 49	11°52'34	22°26	2°33	3°16	21°33	11°24	0°27	16°57	29°34	0°31	24°30	25°57	24°55	n.a.	F 7
S 8	2 54 46	12°53'39	6♍21	4° 6	4°32	22°17	11°36	0°32	16°59	29°35	0°30	24°27	25°54	25° 2	n.a.	S 8
S 9	2 58 42	13°54'46	20°43	5°40	5°47	23° 1	11°48	0°38	17° 2	29°36	0°30	24°23	25°51	25° 8	n.a.	S 9
M10	3 2 39	14°55'53	5♎28	7°14	7° 3	23°46	12° 0	0°43	17° 4	29°36	0°29	24°18	25°48	25°15	n.a.	M10
T 11	3 6 35	15°57'01	20°31	8°47	8°18	24°30	12°12	0°49	17° 7	29°37	0°28	24°12	25°45	25°22	n.a.	T 11
W12	3 10 32	16°58'10	5♏44	10°21	9°34	25°14	12°24	0°55	17° 9	29°38	0°27	24° 6	25°41	25°29	n.a.	W12
T 13	3 14 28	17°59'21	20°55	11°55	10°50	25°58	12°36	1° 1	17°11	29°39	0°27	24° 1	25°38	25°35	n.a.	T 13
F 14	3 18 25	19° 0'32	5♐55	13°29	12° 5	26°43	12°48	1° 7	17°13	29°40	0°26	23°58	25°35	25°42	n.a.	F 14
S 15	3 22 21	20° 1'43	20°35	15° 2	13°21	27°27	13° 0	1°12	17°16	29°41	0°25	23°D57	25°32	25°49	n.a.	S 15
S 16	3 26 18	21° 2'55	4♑49	16°37	14°36	28°11	13°12	1°18	17°18	29°42	0°25	23°57	25°29	25°55	n.a.	S 16
M17	3 30 15	22° 4'08	18°36	18°11	15°52	28°56	13°23	1°25	17°20	29°43	0°24	23°59	25°26	26° 2	n.a.	M17
T 18	3 34 11	23° 5'20	1♒56	19°45	17° 8	29°40	13°35	1°31	17°22	29°45	0°23	24° 0	25°22	26° 9	n.a.	T 18
W19	3 38 8	24° 6'33	14°50	21°19	18°23	0♒24	13°46	1°37	17°24	29°46	0°23	24° 2	25°19	26°15	n.a.	W19
T 20	3 42 4	25° 7'46	27°24	22°54	19°39	1° 9	13°58	1°43	17°26	29°47	0°22	24°R 2	25°16	26°22	n.a.	T 20
F 21	3 46 1	26° 8'59	9♓40	24°28	20°54	1°53	14° 9	1°49	17°28	29°48	0°21	24° 1	25°13	26°29	n.a.	F 21
S 22	3 49 57	27°10'13	21°44	26° 3	22°10	2°37	14°21	1°55	17°30	29°49	0°21	23°59	25°10	26°36	n.a.	S 22
S 23	3 53 54	28°11'26	3♈39	27°38	23°26	3°22	14°32	2° 2	17°32	29°51	0°20	23°55	25° 7	26°42	n.a.	S 23
M24	3 57 50	29°12'39	15°31	29°13	24°41	4° 6	14°43	2° 8	17°34	29°52	0°20	23°51	25° 3	26°49	n.a.	M24
T 25	4 1 47	0♐13'53	27°22	0♐49	25°57	4°50	14°54	2°14	17°35	29°53	0°19	23°47	25° 0	26°56	n.a.	T 25
W26	4 5 44	1°15'07	9♉14	2°25	27°12	5°34	15° 5	2°21	17°37	29°55	0°19	23°43	24°57	27° 2	n.a.	W26
T 27	4 9 40	2°16'21	21°11	4° 1	28°28	6°19	15°16	2°27	17°39	29°56	0°18	23°39	24°54	27° 9	n.a.	T 27
F 28	4 13 37	3°17'35	3♊14	5°37	29°43	7° 3	15°27	2°34	17°40	29°58	0°18	23°37	24°51	27°16	n.a.	F 28
S 29	4 17 33	4°18'49	15°24	7°13	0♐59	7°47	15°38	2°40	17°42	29°59	0°17	23°36	24°47	27°22	n.a.	S 29
S 30	4 21 30	5♐20'03	27♊43	8♐50	2♐14	8♒32	15♎48	2♑47	17♍43	0♒ 0	0♈17	23°D36	24♐44	27♈29	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s36	23n11	1n36	8s 5	1n 7	9s 4	1n 3	24s19	1s44	2s59	1n10	23s41	0n 1	6n 0	0n44	20s55	0s26	15s34	17s18	23s36	23s39	13n43		n.a.
S 2	13 56	23 44	0 33	8 46	1 1	9 34	1 1	24 12	1 43	3 4	1 10	23 42	0 1	5 58	0 44	20 55	0 26	15 34	17 18	23 36	23 39	13 45		n.a.
M 3	14 16	23 9	0s34	9 26	0 54	10 3	0 59	24 5	1 42	3 9	1 10	23 42	0 1	5 57	0 44	20 55	0 26	15 34	17 18	23 36	23 39	13 48		n.a.
T 4	14 36	21 24	1 39	10 6	0 47	10 31	0 57	23 58	1 41	3 14	1 11	23 42	0 1	5 56	0 44	20 55	0 26	15 34	17 17	23 36	23 39	13 50		n.a.
W 5	14 56	18 34	2 42	10 46	0 41	11 0	0 55	23 50	1 40	3 19	1 11	23 42	0 1	5 55	0 44	20 54	0 26	15 34	17 17	23 36	23 39	13 52		n.a.
T 6	15 15	14 43	3 38	11 25	0 34	11 28	0 53	23 42	1 39	3 24	1 11	23 42	0 1	5 54	0 44	20 54	0 26	15 34	17 17	23 36	23 39	13 54		n.a.
F 7	15 34	10 3	4 23	12 4	0 27	11 56	0 51	23 34	1 38	3 28	1 11	23 42	0 1	5 53	0 44	20 54	0 26	15 34	17 17	23 36	23 39	13 56		n.a.
S 8	15 53	4 43	4 55	12 43	0 20	12 24	0 49	23 26	1 37	3 33	1 11	23 42	0 1	5 52	0 44	20 54	0 26	15 34	17 16	23 36	23 39	13 58		n.a.
S 9	16 12	1s 1	5 9	13 21	0 13	12 51	0 47	23 18	1 36	3 38	1 11	23 42	0 1	5 51	0 44	20 54	0 26	15 34	17 16	23 35	23 39	14 0		n.a.
M10	16 30	6 50	5 4	13 59	0 6	13 18	0 45	23 9	1 35	3 43	1 11	23 42	0 1	5 50	0 44	20 54	0 26	15 35	17 16	23 35	23 39	14 2		n.a.
T 11	16 48	12 23	4 38	14 36	0s 0	13 45	0 43	23 0	1 34	3 47	1 11	23 42	0 0	5 50	0 44	20 53	0 26	15 35	17 16	23 35	23 38	14 4		n.a.
W12	17 6	17 14	3 53	15 12	0 7	14 12	0 41	22 51	1 33	3 52	1 11	23 42	0 0	5 49	0 44	20 53	0 26	15 35	17 15	23 35	23 38	14 7		n.a.
T 13	17 23	20 55	2 50	15 48	0 14	14 38	0 39	22 42	1 32	3 57	1 11	23 42	0 0	5 48	0 44	20 53	0 26	15 35	17 15	23 34	23 38	14 9		n.a.
F 14	17 40	23 8	1 37	16 23	0 20	15 3	0 37	22 32	1 31	4 1	1 11	23 42	0 0	5 47	0 44	20 53	0 26	15 35	17 15	23 34	23 38	14 11		n.a.
S 15	17 57	23 41	0 18	16 57	0 27	15 29	0 34	22 22	1 30	4 6	1 11	23 42	0 0	5 46	0 44	20 52	0 26	15 35	17 14	23 34	23 38	14 13		n.a.
S 16	18 13	22 38	0n59	17 31	0 33	15 53	0 32	22 12	1 29	4 10	1 11	23 42	0 0	5 45	0 45	20 52	0 26	15 35	17 14	23 34	23 38	14 15		n.a.
M17	18 30	20 15	2 11	18 4	0 39	16 18	0 30	22 2	1 28	4 15	1 11	23 42	0s 0	5 44	0 45	20 52	0 26	15 35	17 14	23 34	23 38	14 17		n.a.
T 18	18 45	16 49	3 13	18 36	0 45	16 42	0 28	21 52	1 26	4 19	1 12	23 42	0 0	5 44	0 45	20 52	0 26	15 35	17 14	23 34	23 38	14 19		n.a.
W19	19 1	12 41	4 3	19 7	0 51	17 5	0 25	21 41	1 25	4 24	1 12	23 42	0 0	5 43	0 45	20 52	0 26	15 35	17 13	23 34	23 38	14 21		n.a.
T 20	19 16	8 8	4 40	19 38	0 57	17 28	0 23	21 30	1 24	4 28	1 12	23 42	0 0	5 42	0 45	20 51	0 26	15 35	17 13	23 34	23 37	14 23		n.a.
F 21	19 31	3 21	5 4	20 7	1 3	17 51	0 21	21 19	1 23	4 33	1 12	23 42	0 0	5 41	0 45	20 51	0 26	15 35	17 13	23 34	23 37	14 25		n.a.
S 22	19 45	1n28	5 13	20 36	1 8	18 13	0 18	21 8	1 22	4 37	1 12	23 42	0 0	5 41	0 45	20 51	0 26	15 35	17 12	23 34	23 37	14 27		n.a.
S 23	19 59	6 11	5 9	21 3	1 14	18 35	0 16	20 57	1 21	4 41	1 12	23 42	0 0	5 40	0 45	20 50	0 26	15 34	17 12	23 34	23 37	14 29		n.a.
M24	20 13	10 39	4 52	21 30	1 19	18 56	0 14	20 45	1 20	4 45	1 12	23 42	0 1	5 39	0 45	20 50	0 26	15 34	17 12	23 34	23 37	14 31		n.a.
T 25	20 26	14 43	4 22	21 55	1 24	19 17	0 11	20 33	1 19	4 50	1 12	23 42	0 1	5 39	0 45	20 50	0 26	15 34	17 11	23 34	23 37	14 33		n.a.
W26	20 39	18 13	3 40	22 20	1 29	19 37	0 9	20 21	1 18	4 54	1 12	23 42	0 1	5 38	0 45	20 50	0 26	15 34	17 11	23 34	23 37	14 35		n.a.
T 27	20 51	20 59	2 49	22 43	1 33	19 56	0 7	20 9	1 17	4 58	1 12	23 42	0 1	5 37	0 45	20 49	0 26	15 34	17 11	23 33	23 37	14 38		n.a.
F 28	21 3	22 50	1 50	23 5	1 38	20 15	0 4	19 57	1 16	5 2	1 13	23 42	0 1	5 37	0 45	20 49	0 26	15 34	17 10	23 33	23 37	14 40		n.a.
S 29	21 15	23 39	0 45	23 26	1 42	20 33	0 2	19 44	1 15	5 6	1 13	23 42	0 1	5 36	0 45	20 49	0 26	15 34	17 10	23 33	23 36	14 42		n.a.
S 30	21s26	23n19	0s23	23s46	1s46	20s51	0s 1	19s32	1s14	5s10	1n13	23s42	0s 1	5n36	0n45	20s48	0s26	15s34	17s10	23s33	23s36	14n44		n.a.

Julian Day Number = 1673879.5, Delta T = 03h19m05s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'48, Lahiri = - 5°44'48 Julian Calendar 1 Nov. 131 BCE == Greg. Calendar 29 Oct. 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 131 BCE
geocentric

DECEMBER 131 BCE (-130) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 25 26	6♐21'18	10♋12	10♐27	3♐30	9♒16	15♎59	2♑54	17♍45	0♒ 2	0°R17	23♐36	24♐41	27♈36	n.a.	M 1
T 2	4 29 23	7°22'32	22°54	12° 4	4°45	10° 0	16°10	3° 0	17°46	0° 3	0♈16	23°38	24°38	27°43	n.a.	T 2
W 3	4 33 19	8°23'47	5♌49	13°42	6° 1	10°44	16°20	3° 7	17°48	0° 5	0°16	23°39	24°35	27°49	n.a.	W 3
T 4	4 37 16	9°25'02	19° 1	15°20	7°16	11°29	16°30	3°14	17°49	0° 7	0°16	23°40	24°32	27°56	n.a.	T 4
F 5	4 41 13	10°26'17	2♍30	16°58	8°32	12°13	16°41	3°21	17°50	0° 8	0°15	23°41	24°28	28° 3	n.a.	F 5
S 6	4 45 9	11°27'32	16°17	18°37	9°47	12°57	16°51	3°27	17°51	0°10	0°15	23°R41	24°25	28° 9	n.a.	S 6
S 7	4 49 6	12°28'47	0♎24	20°15	11° 3	13°41	17° 1	3°34	17°52	0°12	0°15	23°40	24°22	28°16	n.a.	S 7
M 8	4 53 2	13°30'03	14°48	21°54	12°18	14°25	17°11	3°41	17°53	0°13	0°15	23°39	24°19	28°23	n.a.	M 8
T 9	4 56 59	14°31'18	29°27	23°34	13°34	15°10	17°20	3°48	17°54	0°15	0°14	23°38	24°16	28°29	n.a.	T 9
W10	5 0 55	15°32'33	14♏14	25°13	14°49	15°54	17°30	3°55	17°55	0°17	0°14	23°37	24°13	28°36	n.a.	W10
T 11	5 4 52	16°33'48	29° 4	26°52	16° 5	16°38	17°40	4° 2	17°56	0°18	0°14	23°36	24° 9	28°43	n.a.	T 11
F 12	5 8 49	17°35'03	13♐49	28°32	17°20	17°22	17°49	4° 9	17°57	0°20	0°14	23°36	24° 6	28°50	n.a.	F 12
S 13	5 12 45	18°36'18	28°21	0♑11	18°36	18° 6	17°59	4°16	17°58	0°22	0°14	23°D36	24° 3	28°56	n.a.	S 13
S 14	5 16 42	19°37'32	12♑34	1°50	19°51	18°50	18° 8	4°23	17°59	0°24	0°14	23°36	24° 0	29° 3	n.a.	S 14
M15	5 20 38	20°38'45	26°25	3°29	21° 7	19°35	18°17	4°30	17°59	0°26	0°14	23°37	23°57	29°10	n.a.	M15
T 16	5 24 35	21°39'58	9♒51	5° 8	22°22	20°19	18°26	4°37	18° 0	0°27	0°14	23°37	23°53	29°16	n.a.	T 16
W17	5 28 31	22°41'10	22°53	6°46	23°37	21° 3	18°35	4°44	18° 0	0°29	0°13	23°37	23°50	29°23	n.a.	W17
T 18	5 32 28	23°42'20	5♓32	8°23	24°53	21°47	18°44	4°51	18° 1	0°31	0°D13	23°R37	23°47	29°30	n.a.	T 18
F 19	5 36 24	24°43'30	17°53	9°58	26° 8	22°31	18°53	4°58	18° 1	0°33	0°13	23°37	23°44	29°36	n.a.	F 19
S 20	5 40 21	25°44'39	29°59	11°33	27°24	23°15	19° 1	5° 5	18° 2	0°35	0°14	23°D37	23°41	29°43	n.a.	S 20
S 21	5 44 18	26°45'47	11♈55	13° 5	28°39	23°59	19°10	5°12	18° 2	0°37	0°14	23°37	23°38	29°50	n.a.	S 21
M22	5 48 14	27°46'53	23°47	14°36	29°54	24°43	19°18	5°19	18° 2	0°39	0°14	23°37	23°34	29°57	n.a.	M22
T 23	5 52 11	28°47'59	5♉37	16° 4	1♑10	25°27	19°26	5°26	18° 2	0°41	0°14	23°38	23°31	0♉ 3	n.a.	T 23
W24	5 56 7	29°49'04	17°31	17°28	2°25	26°10	19°34	5°33	18° 3	0°43	0°14	23°39	23°28	0°10	n.a.	W24
T 25	6 0 4	0♑50'08	29°32	18°49	3°40	26°54	19°42	5°41	18° 3	0°45	0°14	23°39	23°25	0°17	n.a.	T 25
F 26	6 4 0	1°51'10	11♊43	20° 6	4°56	27°38	19°50	5°48	18°R 3	0°47	0°14	23°40	23°22	0°23	n.a.	F 26
S 27	6 7 57	2°52'12	24° 6	21°17	6°11	28°22	19°58	5°55	18° 3	0°49	0°14	23°R40	23°19	0°30	n.a.	S 27
S 28	6 11 53	3°53'13	6♋42	22°23	7°26	29° 6	20° 5	6° 2	18° 3	0°51	0°15	23°40	23°15	0°37	n.a.	S 28
M29	6 15 50	4°54'12	19°33	23°21	8°41	29°50	20°13	6° 9	18° 3	0°53	0°15	23°39	23°12	0°43	n.a.	M29
T 30	6 19 47	5°55'11	2♌37	24°13	9°57	0♓33	20°20	6°16	18° 2	0°55	0°15	23°38	23° 9	0°50	n.a.	T 30
W31	6 23 43	6♑56'08	15♌55	24♑56	11♑12	1♓17	20♎27	6♑23	18♍ 2	0♒57	0♈15	23♐36	23♐ 6	0♉57	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	21s37	21n48	1s31	24s 4	1s49	21s 8	0s 3	19s19	1s13	5s14	1n13	23s42	0s 1	5n35	0n45	20s48	0s26	15s33	17s 9	23s33	23s36	14n46			n.a.
T 2	21 47	19 12	2 35	24 21	1 52	21 25	0 5	19 6	1 12	5 18	1 13	23 42	0 1	5 35	0 45	20 48	0 26	15 33	17 9	23 33	23 36	14 48			n.a.
W 3	21 57	15 35	3 33	24 37	1 55	21 41	0 8	18 53	1 11	5 22	1 13	23 42	0 1	5 34	0 45	20 47	0 26	15 33	17 9	23 33	23 36	14 50			n.a.
T 4	22 7	11 10	4 21	24 51	1 58	21 56	0 10	18 39	1 10	5 26	1 13	23 42	0 1	5 34	0 45	20 47	0 26	15 33	17 8	23 33	23 36	14 52			n.a.
F 5	22 16	6 6	4 56	25 4	2 0	22 11	0 12	18 26	1 9	5 30	1 13	23 41	0 1	5 33	0 45	20 47	0 26	15 33	17 8	23 33	23 36	14 54			n.a.
S 6	22 25	0 39	5 14	25 15	2 2	22 25	0 15	18 12	1 8	5 34	1 13	23 41	0 1	5 33	0 45	20 46	0 26	15 33	17 8	23 33	23 35	14 56			n.a.
S 7	22 33	4s58	5 15	25 25	2 4	22 38	0 17	17 58	1 7	5 37	1 14	23 41	0 2	5 32	0 45	20 46	0 26	15 32	17 7	23 33	23 35	14 58			n.a.
M 8	22 41	10 26	4 56	25 33	2 5	22 51	0 19	17 44	1 6	5 41	1 14	23 41	0 2	5 32	0 45	20 46	0 26	15 32	17 7	23 33	23 35	15 0			n.a.
T 9	22 48	15 24	4 17	25 39	2 6	23 3	0 22	17 30	1 5	5 45	1 14	23 41	0 2	5 32	0 45	20 45	0 26	15 32	17 7	23 33	23 35	15 2			n.a.
W10	22 55	19 30	3 21	25 43	2 6	23 14	0 24	17 16	1 4	5 48	1 14	23 41	0 2	5 31	0 45	20 45	0 26	15 32	17 6	23 33	23 35	15 4			n.a.
T 11	23 1	22 19	2 12	25 46	2 6	23 25	0 26	17 2	1 3	5 52	1 14	23 41	0 2	5 31	0 45	20 45	0 26	15 31	17 6	23 33	23 35	15 6			n.a.
F 12	23 7	23 37	0 54	25 47	2 5	23 34	0 29	16 47	1 2	5 56	1 14	23 41	0 2	5 31	0 46	20 44	0 26	15 31	17 5	23 33	23 35	15 8			n.a.
S 13	23 13	23 16	0n26	25 47	2 4	23 44	0 31	16 33	1 1	5 59	1 14	23 40	0 2	5 30	0 46	20 44	0 26	15 31	17 5	23 33	23 34	15 9			n.a.
S 14	23 18	21 24	1 43	25 44	2 2	23 52	0 33	16 18	1 0	6 3	1 15	23 40	0 2	5 30	0 46	20 43	0 26	15 30	17 5	23 33	23 34	15 11			n.a.
M15	23 23	18 17	2 52	25 40	2 0	24 0	0 35	16 3	0 59	6 6	1 15	23 40	0 2	5 30	0 46	20 43	0 26	15 30	17 4	23 33	23 34	15 13			n.a.
T 16	23 27	14 18	3 50	25 33	1 57	24 6	0 37	15 48	0 58	6 9	1 15	23 40	0 2	5 30	0 46	20 43	0 26	15 30	17 4	23 33	23 34	15 15			n.a.
W17	23 30	9 45	4 33	25 25	1 53	24 13	0 39	15 33	0 57	6 13	1 15	23 40	0 2	5 30	0 46	20 42	0 26	15 30	17 4	23 33	23 34	15 17			n.a.
T 18	23 34	4 55	5 2	25 15	1 49	24 18	0 42	15 17	0 56	6 16	1 15	23 40	0 2	5 29	0 46	20 42	0 26	15 29	17 3	23 33	23 34	15 19			n.a.
F 19	23 36	0 0	5 16	25 3	1 43	24 23	0 44	15 2	0 55	6 19	1 15	23 39	0 2	5 29	0 46	20 41	0 26	15 29	17 3	23 33	23 34	15 21			n.a.
S 20	23 38	4n49	5 16	24 49	1 37	24 27	0 46	14 46	0 54	6 22	1 16	23 39	0 3	5 29	0 46	20 41	0 26	15 29	17 3	23 33	23 33	15 23			n.a.
S 21	23 40	9 23	5 2	24 34	1 31	24 30	0 48	14 31	0 53	6 25	1 16	23 39	0 3	5 29	0 46	20 40	0 26	15 28	17 2	23 33	23 33	15 25			n.a.
M22	23 41	13 34	4 35	24 16	1 23	24 32	0 50	14 15	0 52	6 28	1 16	23 39	0 3	5 29	0 46	20 40	0 26	15 28	17 2	23 33	23 33	15 27			n.a.
T 23	23 42	17 15	3 56	23 58	1 14	24 34	0 52	13 59	0 51	6 31	1 16	23 39	0 3	5 29	0 46	20 40	0 26	15 27	17 1	23 33	23 33	15 29			n.a.
W24	23 43	20 15	3 7	23 38	1 5	24 35	0 53	13 43	0 50	6 34	1 16	23 38	0 3	5 29	0 46	20 39	0 26	15 27	17 1	23 33	23 33	15 31			n.a.
T 25	23 42	22 24	2 10	23 16	0 54	24 35	0 55	13 27	0 49	6 37	1 16	23 38	0 3	5 29	0 46	20 39	0 26	15 27	17 1	23 33	23 33	15 33			n.a.
F 26	23 42	23 32	1 6	22 54	0 43	24 34	0 57	13 11	0 48	6 40	1 16	23 38	0 3	5 29	0 46	20 38	0 26	15 26	17 0	23 33	23 33	15 35			n.a.
S 27	23 41	23 32	0s 2	22 30	0 31	24 33	0 59	12 55	0 47	6 43	1 17	23 38	0 3	5 29	0 46	20 38	0 26	15 26	17 0	23 33	23 32	15 37			n.a.
S 28	23 39	22 21	1 12	22 7	0 17	24 30	1 1	12 39	0 46	6 45	1 17	23 37	0 3	5 29	0 46	20 37	0 26	15 25	17 0	23 33	23 32	15 38			n.a.
M29	23 37	19 59	2 19	21 43	0 3	24 27	1 2	12 22	0 46	6 48	1 17	23 37	0 3	5 29	0 46	20 37	0 26	15 25	16 59	23 33	23 32	15 40			n.a.
T 30	23 35	16 34	3 19	21 19	0n12	24 24	1 4	12 6	0 45	6 51	1 17	23 37	0 3	5 29	0 46	20 36	0 26	15 25	16 59	23 33	23 32	15 42			n.a.
W31	23s32	12n16	4s10	20s55	0n29	24s19	1s 6	11s49	0s44	6s53	1n17	23s37	0s 3	5n29	0n46	20s36	0s26	15s24	16s59	23s33	23s32	15n44			n.a.

Julian Day Number = 1673909.5, Delta T = 03h19m05s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'44, Lahiri = - 5°44'44 Julian Calendar 1 Dec. 131 BCE == Greg. Calendar 28 Nov. 131 BCE

The year -130 astronomical counting style corresponds to year 131 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

JANUARY 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 40	7♑57'05	29♌26	25♑29	12♑27	2♓ 1	20♎34	6♑31	18°R 2	1♒ 0	0♈16	23°R34	23♐ 3	1♉ 4	n.a.	T 1
F 2	6 31 36	8°58'00	13♍ 8	25°53	13°42	2°44	20°41	6°38	18♍ 2	1° 2	0°16	23♐32	22°59	1°10	n.a.	F 2
S 3	6 35 33	9°58'55	27° 1	26° 7	14°57	3°28	20°48	6°45	18° 1	1° 4	0°16	23°31	22°56	1°17	n.a.	S 3
S 4	6 39 29	10°59'48	11♎ 4	26°R 9	16°13	4°11	20°54	6°52	18° 1	1° 6	0°17	23°D30	22°53	1°24	n.a.	S 4
M 5	6 43 26	12° 0'41	25°15	26° 1	17°28	4°55	21° 1	6°59	18° 0	1° 8	0°17	23°31	22°50	1°30	n.a.	M 5
T 6	6 47 22	13° 1'33	9♏31	25°41	18°43	5°39	21° 7	7° 6	18° 0	1°10	0°18	23°32	22°47	1°37	n.a.	T 6
W 7	6 51 19	14° 2'24	23°51	25°11	19°58	6°22	21°13	7°14	17°59	1°13	0°18	23°33	22°44	1°44	n.a.	W 7
T 8	6 55 16	15° 3'13	8♐12	24°30	21°13	7° 6	21°19	7°21	17°58	1°15	0°18	23°35	22°40	1°50	n.a.	T 8
F 9	6 59 12	16° 4'02	22°29	23°41	22°28	7°49	21°25	7°28	17°58	1°17	0°19	23°R35	22°37	1°57	n.a.	F 9
S 10	7 3 9	17° 4'49	6♑38	22°44	23°44	8°32	21°31	7°35	17°57	1°19	0°19	23°35	22°34	2° 4	n.a.	S 10
S 11	7 7 5	18° 5'35	20°34	21°40	24°59	9°16	21°36	7°42	17°56	1°21	0°20	23°33	22°31	2°10	n.a.	S 11
M12	7 11 2	19° 6'20	4♒14	20°33	26°14	9°59	21°41	7°49	17°55	1°24	0°20	23°30	22°28	2°17	n.a.	M12
T 13	7 14 58	20° 7'02	17°36	19°23	27°29	10°42	21°47	7°56	17°54	1°26	0°21	23°26	22°25	2°24	n.a.	T 13
W14	7 18 55	21° 7'43	0♓37	18°12	28°44	11°26	21°52	8° 3	17°53	1°28	0°22	23°21	22°21	2°31	n.a.	W14
T 15	7 22 52	22° 8'22	13°18	17° 3	29°59	12° 9	21°56	8°10	17°52	1°30	0°22	23°16	22°18	2°37	n.a.	T 15
F 16	7 26 48	23° 9'00	25°42	15°58	1♒14	12°52	22° 1	8°17	17°51	1°33	0°23	23°13	22°15	2°44	n.a.	F 16
S 17	7 30 45	24° 9'35	7♈50	14°56	2°29	13°35	22° 5	8°24	17°50	1°35	0°23	23°10	22°12	2°51	n.a.	S 17
S 18	7 34 41	25°10'09	19°48	14° 0	3°44	14°19	22°10	8°31	17°49	1°37	0°24	23°D 8	22° 9	2°57	n.a.	S 18
M19	7 38 38	26°10'41	1♉40	13°11	4°59	15° 2	22°14	8°38	17°48	1°39	0°25	23° 8	22° 5	3° 4	n.a.	M19
T 20	7 42 34	27°11'11	13°30	12°29	6°14	15°45	22°18	8°45	17°46	1°42	0°26	23°10	22° 2	3°11	n.a.	T 20
W21	7 46 31	28°11'38	25°25	11°54	7°29	16°28	22°22	8°52	17°45	1°44	0°26	23°11	21°59	3°17	n.a.	W21
T 22	7 50 27	29°12'04	7♊28	11°27	8°44	17°11	22°25	8°59	17°44	1°46	0°27	23°13	21°56	3°24	n.a.	T 22
F 23	7 54 24	0♒12'28	19°44	11° 7	9°59	17°54	22°29	9° 6	17°42	1°49	0°28	23°R14	21°53	3°31	n.a.	F 23
S 24	7 58 21	1°12'50	2♋16	10°55	11°13	18°37	22°32	9°13	17°41	1°51	0°29	23°14	21°50	3°37	n.a.	S 24
S 25	8 2 17	2°13'10	15° 7	10°D50	12°28	19°20	22°35	9°19	17°39	1°53	0°29	23°11	21°46	3°44	n.a.	S 25
M26	8 6 14	3°13'29	28°18	10°51	13°43	20° 2	22°38	9°26	17°38	1°55	0°30	23° 7	21°43	3°51	n.a.	M26
T 27	8 10 10	4°13'45	11♌47	10°59	14°58	20°45	22°41	9°33	17°36	1°58	0°31	23° 2	21°40	3°58	n.a.	T 27
W28	8 14 7	5°13'59	25°33	11°14	16°13	21°28	22°43	9°40	17°34	2° 0	0°32	22°55	21°37	4° 4	n.a.	W28
T 29	8 18 3	6°14'12	9♍32	11°34	17°27	22°11	22°46	9°46	17°33	2° 2	0°33	22°48	21°34	4°11	n.a.	T 29
F 30	8 22 0	7°14'22	23°39	11°59	18°42	22°54	22°48	9°53	17°31	2° 4	0°34	22°41	21°31	4°18	n.a.	F 30
S 31	8 25 56	8♒14'32	7♎51	12♑29	19♒57	23♓36	22♎50	10♑ 0	17♍29	2♒ 7	0♈34	22♐36	21♐27	4♉24	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23s28	7n18	4s49	20s32	0n45	24s14	1s 7	11s32	0s43	6s56	1n18	23s36	0s 3	5n30	0n46	20s36	0s26	15s24	16s58	23s33	23s32	15n46		n.a.
F 2	23 24	1 55	5 11	20 11	1 3	24 8	1 9	11 16	0 42	6 58	1 18	23 36	0 3	5 30	0 46	20 35	0 26	15 23	16 58	23 33	23 31	15 48		n.a.
S 3	23 20	3s37	5 15	19 51	1 20	24 1	1 10	10 59	0 41	7 0	1 18	23 36	0 4	5 30	0 46	20 35	0 26	15 23	16 57	23 33	23 31	15 50		n.a.
S 4	23 15	9 2	5 1	19 33	1 38	23 54	1 11	10 42	0 40	7 3	1 18	23 35	0 4	5 30	0 46	20 34	0 26	15 22	16 57	23 33	23 31	15 52		n.a.
M 5	23 10	14 2	4 29	19 17	1 56	23 45	1 13	10 25	0 39	7 5	1 18	23 35	0 4	5 30	0 46	20 34	0 26	15 22	16 57	23 33	23 31	15 54		n.a.
T 6	23 4	18 18	3 40	19 3	2 14	23 37	1 14	10 8	0 38	7 7	1 18	23 35	0 4	5 31	0 47	20 33	0 26	15 21	16 56	23 33	23 31	15 55		n.a.
W 7	22 58	21 29	2 37	18 52	2 31	23 27	1 15	9 51	0 37	7 9	1 19	23 34	0 4	5 31	0 47	20 33	0 26	15 21	16 56	23 33	23 30	15 57		n.a.
T 8	22 51	23 18	1 24	18 44	2 47	23 16	1 16	9 34	0 36	7 11	1 19	23 34	0 4	5 31	0 47	20 32	0 26	15 20	16 56	23 33	23 30	15 59		n.a.
F 9	22 44	23 36	0 6	18 38	3 1	23 5	1 18	9 17	0 35	7 13	1 19	23 34	0 4	5 32	0 47	20 32	0 26	15 20	16 55	23 33	23 30	16 1		n.a.
S 10	22 36	22 21	1n11	18 35	3 14	22 53	1 19	8 59	0 34	7 15	1 19	23 34	0 4	5 32	0 47	20 31	0 26	15 19	16 55	23 33	23 30	16 3		n.a.
S 11	22 28	19 46	2 23	18 34	3 25	22 41	1 20	8 42	0 34	7 17	1 19	23 33	0 4	5 32	0 47	20 31	0 26	15 19	16 55	23 33	23 30	16 5		n.a.
M12	22 20	16 6	3 25	18 35	3 34	22 28	1 21	8 25	0 33	7 19	1 20	23 33	0 4	5 33	0 47	20 30	0 26	15 18	16 54	23 33	23 30	16 6		n.a.
T 13	22 11	11 42	4 14	18 39	3 41	22 14	1 22	8 7	0 32	7 21	1 20	23 32	0 4	5 33	0 47	20 30	0 26	15 18	16 54	23 33	23 29	16 8		n.a.
W14	22 2	6 53	4 49	18 44	3 45	21 59	1 22	7 50	0 31	7 23	1 20	23 32	0 4	5 33	0 47	20 29	0 26	15 17	16 54	23 32	23 29	16 10		n.a.
T 15	21 52	1 54	5 8	18 51	3 47	21 44	1 23	7 32	0 30	7 24	1 20	23 32	0 4	5 34	0 47	20 29	0 26	15 17	16 53	23 32	23 29	16 12		n.a.
F 16	21 42	3n 3	5 13	19 0	3 46	21 28	1 24	7 15	0 29	7 26	1 20	23 31	0 5	5 34	0 47	20 28	0 26	15 16	16 53	23 32	23 29	16 14		n.a.
S 17	21 31	7 46	5 3	19 9	3 44	21 12	1 25	6 57	0 28	7 27	1 21	23 31	0 5	5 35	0 47	20 28	0 26	15 15	16 53	23 32	23 29	16 16		n.a.
S 18	21 21	12 8	4 40	19 20	3 39	20 55	1 25	6 40	0 27	7 29	1 21	23 31	0 5	5 35	0 47	20 27	0 26	15 15	16 52	23 32	23 28	16 17		n.a.
M19	21 9	16 1	4 5	19 31	3 33	20 37	1 26	6 22	0 27	7 30	1 21	23 30	0 5	5 36	0 47	20 27	0 27	15 14	16 52	23 32	23 28	16 19		n.a.
T 20	20 58	19 15	3 20	19 43	3 25	20 19	1 26	6 5	0 26	7 31	1 21	23 30	0 5	5 36	0 47	20 26	0 27	15 14	16 52	23 32	23 28	16 21		n.a.
W21	20 45	21 42	2 26	19 55	3 16	20 0	1 27	5 47	0 25	7 33	1 21	23 30	0 5	5 37	0 47	20 26	0 27	15 13	16 51	23 32	23 28	16 23		n.a.
T 22	20 33	23 12	1 25	20 7	3 6	19 41	1 27	5 29	0 24	7 34	1 22	23 29	0 5	5 37	0 47	20 25	0 27	15 13	16 51	23 32	23 28	16 25		n.a.
F 23	20 20	23 38	0 19	20 19	2 56	19 21	1 27	5 11	0 23	7 35	1 22	23 29	0 5	5 38	0 47	20 25	0 27	15 12	16 51	23 32	23 28	16 26		n.a.
S 24	20 7	22 52	0s49	20 32	2 44	19 0	1 27	4 54	0 22	7 36	1 22	23 28	0 5	5 39	0 47	20 24	0 27	15 11	16 50	23 32	23 27	16 28		n.a.
S 25	19 53	20 55	1 56	20 44	2 32	18 39	1 28	4 36	0 21	7 37	1 22	23 28	0 5	5 39	0 47	20 24	0 27	15 11	16 50	23 32	23 27	16 30		n.a.
M26	19 39	17 49	2 59	20 56	2 20	18 18	1 28	4 18	0 21	7 38	1 22	23 28	0 5	5 40	0 47	20 23	0 27	15 10	16 50	23 32	23 27	16 32		n.a.
T 27	19 25	13 43	3 53	21 8	2 8	17 56	1 28	4 0	0 20	7 39	1 23	23 27	0 5	5 41	0 47	20 23	0 27	15 10	16 49	23 31	23 27	16 33		n.a.
W28	19 11	8 51	4 34	21 19	1 55	17 33	1 28	3 43	0 19	7 39	1 23	23 27	0 5	5 41	0 47	20 22	0 27	15 9	16 49	23 31	23 27	16 35		n.a.
T 29	18 56	3 27	5 0	21 29	1 43	17 10	1 28	3 25	0 18	7 40	1 23	23 26	0 6	5 42	0 47	20 22	0 27	15 8	16 49	23 31	23 26	16 37		n.a.
F 30	18 40	2s10	5 8	21 40	1 31	16 46	1 27	3 7	0 17	7 41	1 23	23 26	0 6	5 43	0 47	20 21	0 27	15 8	16 48	23 30	23 26	16 39		n.a.
S 31	18s25	7s42	4s58	21s49	1n18	16s22	1s27	2s49	0s16	7s41	1n23	23s25	0s 6	5n43	0n47	20s21	0s27	15s 7	16s48	23s30	23s26	16n40		n.a.

Julian Day Number = 1673940.5, Delta T = 03h19m04s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'40, Lahiri = - 5°44'40 Julian Calendar 1 Jan. 130 BCE == Greg. Calendar 29 Dec. 131 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

FEBRUARY 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 53	9♒14'39	22♎ 4	13♑ 4	21♒12	24♓19	22♎52	10♑ 6	17°R27	2♒ 9	0♈35	22°R32	21♐24	4♉31	n.a.	S 1
M 2	8 33 50	10°14'45	6♏15	13°43	22°26	25° 1	22°54	10°13	17♍26	2°11	0°36	22°D31	21°21	4°38	n.a.	M 2
T 3	8 37 46	11°14'49	20°23	14°26	23°41	25°44	22°55	10°19	17°24	2°14	0°37	22♐31	21°18	4°44	n.a.	T 3
W 4	8 41 43	12°14'52	4♐25	15°13	24°56	26°26	22°56	10°26	17°22	2°16	0°38	22°32	21°15	4°51	n.a.	W 4
T 5	8 45 39	13°14'53	18°21	16° 3	26°10	27° 9	22°57	10°32	17°20	2°18	0°39	22°R33	21°11	4°58	n.a.	T 5
F 6	8 49 36	14°14'52	2♑10	16°57	27°25	27°51	22°58	10°38	17°18	2°20	0°40	22°33	21° 8	5° 4	n.a.	F 6
S 7	8 53 32	15°14'49	15°51	17°53	28°39	28°34	22°59	10°45	17°16	2°23	0°41	22°30	21° 5	5°11	n.a.	S 7
S 8	8 57 29	16°14'45	29°22	18°53	29°54	29°16	23° 0	10°51	17°14	2°25	0°42	22°25	21° 2	5°18	n.a.	S 8
M 9	9 1 25	17°14'38	12♒42	19°55	1♓ 8	29°59	23° 0	10°57	17°12	2°27	0°43	22°18	20°59	5°24	n.a.	M 9
T 10	9 5 22	18°14'30	25°47	20°59	2°23	0♈41	23°R 0	11° 4	17°10	2°29	0°44	22° 8	20°56	5°31	n.a.	T 10
W11	9 9 19	19°14'19	8♓38	22° 6	3°37	1°23	23° 0	11°10	17° 7	2°31	0°45	21°58	20°52	5°38	n.a.	W11
T 12	9 13 15	20°14'06	21°13	23°15	4°52	2° 5	23° 0	11°16	17° 5	2°34	0°47	21°47	20°49	5°45	n.a.	T 12
F 13	9 17 12	21°13'51	3♈33	24°26	6° 6	2°47	22°59	11°22	17° 3	2°36	0°48	21°37	20°46	5°51	n.a.	F 13
S 14	9 21 8	22°13'33	15°41	25°39	7°21	3°30	22°59	11°28	17° 1	2°38	0°49	21°29	20°43	5°58	n.a.	S 14
S 15	9 25 5	23°13'13	27°38	26°54	8°35	4°12	22°58	11°34	16°58	2°40	0°50	21°23	20°40	6° 5	n.a.	S 15
M16	9 29 1	24°12'51	9♉29	28°10	9°49	4°54	22°57	11°40	16°56	2°42	0°51	21°20	20°37	6°11	n.a.	M16
T 17	9 32 58	25°12'27	21°18	29°29	11° 4	5°36	22°56	11°46	16°54	2°44	0°52	21°D19	20°33	6°18	n.a.	T 17
W18	9 36 54	26°12'00	3♊11	0♒49	12°18	6°18	22°54	11°52	16°52	2°47	0°53	21°19	20°30	6°25	n.a.	W18
T 19	9 40 51	27°11'31	15°14	2°11	13°32	7° 0	22°53	11°57	16°49	2°49	0°55	21°R19	20°27	6°31	n.a.	T 19
F 20	9 44 47	28°11'00	27°31	3°34	14°46	7°42	22°51	12° 3	16°47	2°51	0°56	21°19	20°24	6°38	n.a.	F 20
S 21	9 48 44	29°10'26	10♋ 7	4°59	16° 1	8°24	22°49	12° 9	16°44	2°53	0°57	21°18	20°21	6°45	n.a.	S 21
S 22	9 52 41	0♓ 9'49	23° 5	6°26	17°15	9° 5	22°47	12°14	16°42	2°55	0°58	21°14	20°17	6°51	n.a.	S 22
M23	9 56 37	1° 9'11	6♌29	7°53	18°29	9°47	22°45	12°20	16°40	2°57	0°59	21° 7	20°14	6°58	n.a.	M23
T 24	10 0 34	2° 8'30	20°17	9°23	19°43	10°29	22°42	12°25	16°37	2°59	1° 1	20°58	20°11	7° 5	n.a.	T 24
W25	10 4 30	3° 7'47	4♍26	10°54	20°57	11°11	22°40	12°31	16°35	3° 1	1° 2	20°48	20° 8	7°11	n.a.	W25
T 26	10 8 27	4° 7'01	18°52	12°26	22°11	11°52	22°37	12°36	16°32	3° 3	1° 3	20°36	20° 5	7°18	n.a.	T 26
F 27	10 12 23	5° 6'14	3♎28	14° 0	23°25	12°34	22°34	12°41	16°30	3° 5	1° 4	20°26	20° 2	7°25	n.a.	F 27
S 28	10 16 20	6♓ 5'25	18♎ 6	15♒35	24♓39	13♈16	22♎31	12♑46	16♍27	3♒ 7	1♈ 6	20♐17	19♐58	7♉31	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s 9	12s50	4s29	21s58	1n 6	15s58	1s27	2s31	0s16	7s42	1n24	23s25	0s 6	5n44	0n47	20s20	0s27	15s 6	16s48	23s30	23s26	16n42		n.a.
M 2	17 52	17 16	3 43	22 6	0 54	15 33	1 26	2 14	0 15	7 42	1 24	23 25	0 6	5 45	0 47	20 20	0 27	15 6	16 48	23 30	23 25	16 44		n.a.
T 3	17 36	20 41	2 45	22 13	0 43	15 8	1 26	1 56	0 14	7 43	1 24	23 24	0 6	5 46	0 47	20 19	0 27	15 5	16 47	23 30	23 25	16 46		n.a.
W 4	17 19	22 50	1 36	22 19	0 31	14 42	1 26	1 38	0 13	7 43	1 24	23 24	0 6	5 46	0 47	20 19	0 27	15 5	16 47	23 30	23 25	16 47		n.a.
T 5	17 2	23 34	0 23	22 24	0 20	14 16	1 25	1 20	0 12	7 43	1 24	23 23	0 6	5 47	0 47	20 18	0 27	15 4	16 47	23 30	23 25	16 49		n.a.
F 6	16 44	22 50	0n52	22 28	0 10	13 50	1 24	1 2	0 12	7 43	1 25	23 23	0 6	5 48	0 48	20 18	0 27	15 3	16 47	23 30	23 25	16 51		n.a.
S 7	16 27	20 44	2 2	22 31	0s 1	13 23	1 24	0 45	0 11	7 43	1 25	23 22	0 6	5 49	0 48	20 17	0 27	15 3	16 46	23 30	23 24	16 53		n.a.
S 8	16 9	17 31	3 4	22 33	0 11	12 56	1 23	0 27	0 10	7 43	1 25	23 22	0 6	5 50	0 48	20 17	0 27	15 2	16 46	23 29	23 24	16 54		n.a.
M 9	15 51	13 25	3 56	22 33	0 21	12 28	1 22	0 9	0 9	7 43	1 25	23 22	0 6	5 51	0 48	20 16	0 27	15 1	16 46	23 29	23 24	16 56		n.a.
T 10	15 32	8 47	4 33	22 33	0 30	12 0	1 21	0n 9	0 9	7 43	1 25	23 21	0 7	5 51	0 48	20 16	0 27	15 1	16 45	23 28	23 24	16 58		n.a.
W11	15 13	3 51	4 56	22 31	0 39	11 32	1 20	0 26	0 8	7 43	1 26	23 21	0 7	5 52	0 48	20 15	0 27	15 0	16 45	23 28	23 24	16 59		n.a.
T 12	14 54	1n 8	5 4	22 28	0 48	11 4	1 19	0 44	0 7	7 43	1 26	23 20	0 7	5 53	0 48	20 15	0 27	14 59	16 45	23 27	23 23	17 1		n.a.
F 13	14 35	5 59	4 58	22 24	0 56	10 35	1 18	1 2	0 6	7 42	1 26	23 20	0 7	5 54	0 48	20 14	0 27	14 59	16 45	23 27	23 23	17 3		n.a.
S 14	14 16	10 30	4 38	22 18	1 4	10 6	1 17	1 19	0 6	7 42	1 26	23 19	0 7	5 55	0 48	20 14	0 27	14 58	16 45	23 26	23 23	17 4		n.a.
S 15	13 56	14 34	4 6	22 11	1 11	9 37	1 16	1 37	0 5	7 41	1 26	23 19	0 7	5 56	0 48	20 13	0 27	14 57	16 44	23 26	23 23	17 6		n.a.
M16	13 36	18 2	3 24	22 3	1 19	9 7	1 15	1 54	0 4	7 41	1 27	23 19	0 7	5 57	0 48	20 13	0 27	14 57	16 44	23 25	23 22	17 8		n.a.
T 17	13 16	20 45	2 33	21 53	1 25	8 38	1 13	2 12	0 3	7 40	1 27	23 18	0 7	5 58	0 48	20 12	0 27	14 56	16 44	23 25	23 22	17 9		n.a.
W18	12 56	22 35	1 35	21 42	1 32	8 8	1 12	2 29	0 3	7 40	1 27	23 18	0 7	5 59	0 48	20 12	0 27	14 55	16 44	23 25	23 22	17 11		n.a.
T 19	12 35	23 25	0 32	21 29	1 38	7 38	1 10	2 47	0 2	7 39	1 27	23 17	0 7	6 0	0 48	20 11	0 27	14 55	16 43	23 25	23 22	17 13		n.a.
F 20	12 14	23 8	0s33	21 15	1 43	7 7	1 9	3 4	0 1	7 38	1 27	23 17	0 7	6 1	0 48	20 11	0 27	14 54	16 43	23 25	23 22	17 14		n.a.
S 21	11 53	21 41	1 38	20 59	1 48	6 37	1 7	3 22	0 0	7 37	1 28	23 16	0 7	6 1	0 48	20 10	0 27	14 54	16 43	23 25	23 21	17 16		n.a.
S 22	11 32	19 4	2 40	20 42	1 53	6 6	1 6	3 39	0n 0	7 36	1 28	23 16	0 8	6 2	0 48	20 10	0 27	14 53	16 43	23 25	23 21	17 18		n.a.
M23	11 11	15 23	3 36	20 23	1 57	5 35	1 4	3 56	0 1	7 35	1 28	23 15	0 8	6 3	0 48	20 9	0 27	14 52	16 43	23 25	23 21	17 19		n.a.
T 24	10 50	10 47	4 20	20 3	2 1	5 4	1 2	4 13	0 2	7 34	1 28	23 15	0 8	6 4	0 48	20 9	0 27	14 52	16 42	23 24	23 21	17 21		n.a.
W25	10 28	5 30	4 49	19 41	2 5	4 33	1 1	4 30	0 2	7 33	1 28	23 15	0 8	6 5	0 48	20 9	0 27	14 51	16 42	23 23	23 20	17 23		n.a.
T 26	10 7	0s10	5 1	19 18	2 8	4 2	0 59	4 48	0 3	7 32	1 29	23 14	0 8	6 6	0 48	20 8	0 27	14 50	16 42	23 22	23 20	17 24		n.a.
F 27	9 45	5 53	4 54	18 53	2 10	3 31	0 57	5 5	0 4	7 30	1 29	23 14	0 8	6 7	0 48	20 8	0 27	14 50	16 42	23 22	23 20	17 26		n.a.
S 28	9s23	11s17	4s27	18s27	2s12	2s59	0s55	5n22	0n 5	7s29	1n29	23s13	0s 8	6n 8	0n48	20s 7	0s27	14s49	16s42	23s21	23s20	17n28		n.a.

Julian Day Number = 1673971.5, Delta T = 03h19m03s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'36, Lahiri = - 5°44'35 Julian Calendar 1 Feb. 130 BCE == Greg. Calendar 29 Jan. 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

MARCH 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 20 16	7♓ 4'33	2♏40	17♒11	25♓53	13♈57	22°R28	12♑52	16°R25	3♒ 9	1♈ 7	20°R11	19♐55	7♉38	n.a.	S 1
M 2	10 24 13	8° 3'40	17° 5	18°49	27° 7	14°39	22♎24	12°57	16♍22	3°11	1° 8	20♐ 7	19°52	7°45	n.a.	M 2
T 3	10 28 10	9° 2'45	1♐17	20°29	28°21	15°20	22°20	13° 2	16°19	3°13	1° 9	20° 6	19°49	7°51	n.a.	T 3
W 4	10 32 6	10° 1'49	15°15	22° 9	29°34	16° 2	22°17	13° 7	16°17	3°15	1°11	20° 6	19°46	7°58	n.a.	W 4
T 5	10 36 3	11° 0'50	28°59	23°51	0♈48	16°43	22°13	13°12	16°14	3°17	1°12	20° 6	19°42	8° 5	n.a.	T 5
F 6	10 39 59	11°59'50	12♑30	25°35	2° 2	17°24	22° 8	13°16	16°12	3°19	1°13	20° 4	19°39	8°12	n.a.	F 6
S 7	10 43 56	12°58'48	25°49	27°20	3°16	18° 6	22° 4	13°21	16° 9	3°21	1°15	20° 0	19°36	8°18	n.a.	S 7
S 8	10 47 52	13°57'44	8♒57	29° 7	4°29	18°47	21°59	13°26	16° 7	3°22	1°16	19°54	19°33	8°25	n.a.	S 8
M 9	10 51 49	14°56'37	21°54	0♓55	5°43	19°28	21°55	13°30	16° 4	3°24	1°17	19°44	19°30	8°32	n.a.	M 9
T 10	10 55 45	15°55'29	4♓40	2°44	6°57	20° 9	21°50	13°35	16° 2	3°26	1°19	19°32	19°27	8°38	n.a.	T 10
W11	10 59 42	16°54'19	17°14	4°35	8°10	20°51	21°45	13°39	15°59	3°28	1°20	19°18	19°23	8°45	n.a.	W11
T 12	11 3 38	17°53'07	29°37	6°27	9°24	21°32	21°40	13°44	15°56	3°30	1°21	19° 4	19°20	8°52	n.a.	T 12
F 13	11 7 35	18°51'52	11♈49	8°21	10°37	22°13	21°35	13°48	15°54	3°31	1°23	18°51	19°17	8°58	n.a.	F 13
S 14	11 11 32	19°50'35	23°51	10°17	11°51	22°54	21°29	13°52	15°51	3°33	1°24	18°40	19°14	9° 5	n.a.	S 14
S 15	11 15 28	20°49'17	5♉44	12°14	13° 4	23°35	21°24	13°57	15°49	3°35	1°26	18°32	19°11	9°12	n.a.	S 15
M16	11 19 25	21°47'56	17°33	14°12	14°18	24°16	21°18	14° 1	15°46	3°36	1°27	18°26	19° 8	9°18	n.a.	M16
T 17	11 23 21	22°46'32	29°22	16°12	15°31	24°57	21°12	14° 5	15°43	3°38	1°28	18°23	19° 4	9°25	n.a.	T 17
W18	11 27 18	23°45'07	11♊13	18°13	16°44	25°38	21° 6	14° 9	15°41	3°40	1°30	18°22	19° 1	9°32	n.a.	W18
T 19	11 31 14	24°43'39	23°14	20°15	17°58	26°19	21° 0	14°12	15°38	3°41	1°31	18°22	18°58	9°38	n.a.	T 19
F 20	11 35 11	25°42'09	5♋29	22°19	19°11	27° 0	20°54	14°16	15°36	3°43	1°32	18°22	18°55	9°45	n.a.	F 20
S 21	11 39 7	26°40'37	18° 3	24°23	20°24	27°40	20°48	14°20	15°33	3°44	1°34	18°20	18°52	9°52	n.a.	S 21
S 22	11 43 4	27°39'03	1♌ 2	26°29	21°37	28°21	20°41	14°23	15°31	3°46	1°35	18°17	18°48	9°58	n.a.	S 22
M23	11 47 1	28°37'26	14°28	28°36	22°51	29° 2	20°35	14°27	15°28	3°47	1°37	18°11	18°45	10° 5	n.a.	M23
T 24	11 50 57	29°35'47	28°23	0♈43	24° 4	29°43	20°28	14°30	15°26	3°49	1°38	18° 2	18°42	10°12	n.a.	T 24
W25	11 54 54	0♈34'06	12♍45	2°51	25°17	0♉23	20°22	14°34	15°23	3°50	1°39	17°52	18°39	10°18	n.a.	W25
T 26	11 58 50	1°32'23	27°28	4°59	26°30	1° 4	20°15	14°37	15°21	3°52	1°41	17°41	18°36	10°25	n.a.	T 26
F 27	12 2 47	2°30'38	12♎25	7° 7	27°43	1°44	20° 8	14°40	15°19	3°53	1°42	17°31	18°33	10°32	n.a.	F 27
S 28	12 6 43	3°28'51	27°27	9°15	28°55	2°25	20° 1	14°43	15°16	3°55	1°44	17°22	18°29	10°38	n.a.	S 28
S 29	12 10 40	4°27'02	12♏24	11°23	0♉ 8	3° 6	19°54	14°46	15°14	3°56	1°45	17°16	18°26	10°45	n.a.	S 29
M30	12 14 36	5°25'12	27° 8	13°29	1°21	3°46	19°47	14°49	15°11	3°57	1°46	17°12	18°23	10°52	n.a.	M30
T 31	12 18 33	6♈23'21	11♐34	15♈35	2♉34	4♉26	19♎40	14♑52	15♍ 9	3♒59	1♈48	17°D11	18♐20	10♉58	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	9s 1	16s 1	3s43	17s59	2s14	2s28	0s53	5n39	0n 5	7s28	1n29	23s13	0s 8	6n 9	0n48	20s 7	0s27	14s48	16s42	23s21	23s19	17n29			n.a.
M 2	8 38	19 46	2 45	17 29	2 15	1 56	0 51	5 55	0 6	7 26	1 29	23 13	0 8	6 10	0 48	20 6	0 27	14 48	16 42	23 20	23 19	17 31			n.a.
T 3	8 16	22 15	1 38	16 58	2 16	1 25	0 49	6 12	0 7	7 25	1 29	23 12	0 8	6 11	0 48	20 6	0 27	14 47	16 41	23 20	23 19	17 32			n.a.
W 4	7 54	23 19	0 26	16 25	2 16	0 53	0 47	6 29	0 7	7 23	1 29	23 12	0 8	6 12	0 48	20 5	0 27	14 46	16 41	23 20	23 19	17 34			n.a.
T 5	7 31	22 56	0n47	15 51	2 16	0 22	0 45	6 46	0 8	7 21	1 30	23 11	0 8	6 13	0 48	20 5	0 27	14 46	16 41	23 20	23 18	17 36			n.a.
F 6	7 8	21 12	1 56	15 15	2 15	0n10	0 42	7 2	0 9	7 20	1 30	23 11	0 9	6 14	0 48	20 5	0 27	14 45	16 41	23 20	23 18	17 37			n.a.
S 7	6 46	18 20	2 57	14 37	2 14	0 42	0 40	7 19	0 9	7 18	1 30	23 11	0 9	6 15	0 48	20 4	0 27	14 44	16 41	23 20	23 18	17 39			n.a.
S 8	6 23	14 34	3 48	13 58	2 12	1 13	0 38	7 35	0 10	7 16	1 30	23 10	0 9	6 16	0 48	20 4	0 27	14 44	16 41	23 19	23 18	17 40			n.a.
M 9	6 0	10 10	4 26	13 17	2 10	1 45	0 36	7 52	0 11	7 14	1 30	23 10	0 9	6 17	0 48	20 3	0 27	14 43	16 41	23 18	23 17	17 42			n.a.
T 10	5 37	5 25	4 50	12 35	2 7	2 17	0 33	8 8	0 11	7 12	1 30	23 9	0 9	6 18	0 48	20 3	0 27	14 42	16 40	23 18	23 17	17 43			n.a.
W11	5 14	0 30	5 0	11 51	2 3	2 48	0 31	8 25	0 12	7 10	1 30	23 9	0 9	6 19	0 48	20 3	0 27	14 42	16 40	23 16	23 17	17 45			n.a.
T 12	4 50	4n21	4 55	11 5	2 0	3 20	0 28	8 41	0 13	7 8	1 31	23 9	0 9	6 20	0 48	20 2	0 27	14 41	16 40	23 15	23 17	17 47			n.a.
F 13	4 27	8 57	4 37	10 18	1 55	3 51	0 26	8 57	0 13	7 6	1 31	23 8	0 9	6 21	0 48	20 2	0 27	14 41	16 40	23 14	23 16	17 48			n.a.
S 14	4 4	13 9	4 6	9 30	1 50	4 23	0 23	9 13	0 14	7 4	1 31	23 8	0 9	6 22	0 48	20 1	0 27	14 40	16 40	23 13	23 16	17 50			n.a.
S 15	3 41	16 48	3 25	8 40	1 45	4 54	0 21	9 29	0 14	7 2	1 31	23 8	0 9	6 23	0 48	20 1	0 27	14 39	16 40	23 13	23 16	17 51			n.a.
M16	3 17	19 45	2 35	7 48	1 39	5 25	0 18	9 45	0 15	7 0	1 31	23 7	0 10	6 24	0 48	20 1	0 27	14 39	16 40	23 12	23 16	17 53			n.a.
T 17	2 54	21 51	1 39	6 55	1 32	5 56	0 16	10 0	0 16	6 57	1 31	23 7	0 10	6 25	0 48	20 0	0 27	14 38	16 40	23 12	23 15	17 54			n.a.
W18	2 30	23 0	0 38	6 1	1 25	6 27	0 13	10 16	0 16	6 55	1 31	23 7	0 10	6 26	0 48	20 0	0 27	14 38	16 40	23 12	23 15	17 56			n.a.
T 19	2 7	23 6	0s26	5 6	1 18	6 58	0 10	10 32	0 17	6 53	1 31	23 6	0 10	6 27	0 48	20 0	0 28	14 37	16 40	23 12	23 15	17 57			n.a.
F 20	1 44	22 6	1 29	4 9	1 10	7 28	0 8	10 47	0 17	6 50	1 31	23 6	0 10	6 28	0 48	19 59	0 28	14 36	16 40	23 12	23 15	17 59			n.a.
S 21	1 20	20 0	2 30	3 11	1 1	7 59	0 5	11 3	0 18	6 48	1 31	23 6	0 10	6 29	0 48	19 59	0 28	14 36	16 40	23 12	23 14	18 0			n.a.
S 22	0 57	16 49	3 26	2 12	0 52	8 29	0 2	11 18	0 19	6 45	1 32	23 5	0 10	6 30	0 48	19 59	0 28	14 35	16 40	23 11	23 14	18 2			n.a.
M23	0 33	12 40	4 11	1 13	0 43	8 59	0n 0	11 33	0 19	6 43	1 32	23 5	0 10	6 31	0 48	19 58	0 28	14 35	16 40	23 11	23 14	18 3			n.a.
T 24	0 10	7 44	4 44	0 13	0 33	9 29	0 3	11 48	0 20	6 40	1 32	23 5	0 10	6 32	0 48	19 58	0 28	14 34	16 40	23 10	23 13	18 5			n.a.
W25	0n14	2 14	5 0	0n48	0 23	9 59	0 6	12 3	0 20	6 38	1 32	23 5	0 10	6 33	0 48	19 58	0 28	14 33	16 40	23 9	23 13	18 6			n.a.
T 26	0 37	3s31	4 57	1 49	0 12	10 28	0 9	12 18	0 21	6 35	1 32	23 4	0 10	6 34	0 48	19 57	0 28	14 33	16 40	23 8	23 13	18 8			n.a.
F 27	1 1	9 9	4 34	2 50	0 2	10 57	0 11	12 33	0 22	6 32	1 32	23 4	0 11	6 35	0 48	19 57	0 28	14 32	16 40	23 7	23 13	18 9			n.a.
S 28	1 24	14 16	3 51	3 51	0n 9	11 26	0 14	12 48	0 22	6 30	1 32	23 4	0 11	6 36	0 48	19 57	0 28	14 32	16 40	23 6	23 12	18 11			n.a.
S 29	1 47	18 29	2 53	4 51	0 20	11 55	0 17	13 2	0 23	6 27	1 32	23 4	0 11	6 37	0 48	19 56	0 28	14 31	16 40	23 6	23 12	18 12			n.a.
M30	2 11	21 26	1 44	5 51	0 31	12 23	0 20	13 17	0 23	6 24	1 32	23 3	0 11	6 38	0 48	19 56	0 28	14 31	16 40	23 5	23 12	18 14			n.a.
T 31	2n34	22s55	0s30	6n50	0n42	12n51	0n23	13n31	0n24	6s22	1n32	23s 3	0s11	6n39	0n48	19s56	0s28	14s30	16s40	23s 5	23s11	18n15			n.a.

Julian Day Number = 1673999.5, Delta T = 03h19m02s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'32, Lahiri = - 5°44'32 Julian Calendar 1 March 130 BCE == Greg. Calendar 26 Feb. 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

APRIL 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 22 29	7♈21'28	25♐40	17♈39	3♉47	5♉ 7	19°R32	14♑55	15°R 7	4♒ 0	1♈49	17♐11	18♐17	11♉ 5	n.a.	W 1
T 2	12 26 26	8°19'33	9♑26	19°41	4°59	5°47	19♎25	14°57	15♍ 4	4° 1	1°50	17°R11	18°13	11°12	n.a.	T 2
F 3	12 30 23	9°17'37	22°51	21°42	6°12	6°28	19°18	15° 0	15° 2	4° 2	1°52	17°10	18°10	11°18	n.a.	F 3
S 4	12 34 19	10°15'39	5♒59	23°40	7°25	7° 8	19°10	15° 2	15° 0	4° 3	1°53	17° 7	18° 7	11°25	n.a.	S 4
S 5	12 38 16	11°13'40	18°53	25°35	8°37	7°48	19° 3	15° 5	14°58	4° 5	1°55	17° 2	18° 4	11°32	n.a.	S 5
M 6	12 42 12	12°11'40	1♓32	27°28	9°50	8°28	18°55	15° 7	14°55	4° 6	1°56	16°54	18° 1	11°38	n.a.	M 6
T 7	12 46 9	13° 9'37	14° 1	29°18	11° 2	9° 9	18°48	15° 9	14°53	4° 7	1°57	16°44	17°58	11°45	n.a.	T 7
W 8	12 50 5	14° 7'34	26°19	1♉ 5	12°15	9°49	18°40	15°11	14°51	4° 8	1°59	16°33	17°54	11°52	n.a.	W 8
T 9	12 54 2	15° 5'28	8♈29	2°48	13°27	10°29	18°32	15°13	14°49	4° 9	2° 0	16°22	17°51	11°59	n.a.	T 9
F 10	12 57 58	16° 3'21	20°30	4°28	14°39	11° 9	18°25	15°15	14°47	4°10	2° 1	16°11	17°48	12° 5	n.a.	F 10
S 11	13 1 55	17° 1'13	2♉25	6° 5	15°52	11°49	18°17	15°17	14°45	4°11	2° 3	16° 2	17°45	12°12	n.a.	S 11
S 12	13 5 52	17°59'03	14°15	7°38	17° 4	12°29	18°10	15°19	14°43	4°12	2° 4	15°55	17°42	12°19	n.a.	S 12
M13	13 9 48	18°56'51	26° 3	9° 7	18°16	13° 9	18° 2	15°21	14°41	4°13	2° 5	15°50	17°39	12°25	n.a.	M13
T 14	13 13 45	19°54'38	7♊51	10°33	19°28	13°49	17°54	15°22	14°39	4°14	2° 7	15°48	17°35	12°32	n.a.	T 14
W15	13 17 41	20°52'23	19°43	11°55	20°40	14°29	17°47	15°23	14°37	4°14	2° 8	15°D48	17°32	12°39	n.a.	W15
T 16	13 21 38	21°50'06	1♋43	13°13	21°52	15° 9	17°39	15°25	14°35	4°15	2° 9	15°49	17°29	12°45	n.a.	T 16
F 17	13 25 34	22°47'48	13°57	14°28	23° 4	15°49	17°31	15°26	14°33	4°16	2°11	15°50	17°26	12°52	n.a.	F 17
S 18	13 29 31	23°45'28	26°30	15°38	24°16	16°29	17°24	15°27	14°31	4°17	2°12	15°R50	17°23	12°59	n.a.	S 18
S 19	13 33 27	24°43'06	9♌25	16°45	25°28	17° 9	17°16	15°28	14°30	4°18	2°13	15°49	17°19	13° 5	n.a.	S 19
M20	13 37 24	25°40'42	22°48	17°47	26°40	17°49	17° 9	15°29	14°28	4°18	2°15	15°46	17°16	13°12	n.a.	M20
T 21	13 41 21	26°38'17	6♍39	18°45	27°52	18°28	17° 1	15°30	14°26	4°19	2°16	15°41	17°13	13°19	n.a.	T 21
W22	13 45 17	27°35'50	20°59	19°39	29° 3	19° 8	16°54	15°31	14°24	4°20	2°17	15°35	17°10	13°25	n.a.	W22
T 23	13 49 14	28°33'22	5♎45	20°29	0♊15	19°48	16°47	15°31	14°23	4°20	2°19	15°28	17° 7	13°32	n.a.	T 23
F 24	13 53 10	29°30'53	20°49	21°14	1°26	20°28	16°39	15°32	14°21	4°21	2°20	15°21	17° 4	13°39	n.a.	F 24
S 25	13 57 7	0♉28'22	6♏ 2	21°55	2°38	21° 7	16°32	15°32	14°20	4°21	2°21	15°15	17° 0	13°45	n.a.	S 25
S 26	14 1 3	1°25'50	21°14	22°32	3°49	21°47	16°25	15°33	14°18	4°22	2°22	15°11	16°57	13°52	n.a.	S 26
M27	14 5 0	2°23'17	6♐15	23° 4	5° 1	22°27	16°18	15°33	14°17	4°22	2°24	15° 9	16°54	13°59	n.a.	M27
T 28	14 8 56	3°20'43	20°57	23°32	6°12	23° 6	16°11	15°33	14°15	4°23	2°25	15°D 9	16°51	14° 5	n.a.	T 28
W29	14 12 53	4°18'08	5♑17	23°55	7°23	23°46	16° 4	15°R33	14°14	4°23	2°26	15°10	16°48	14°12	n.a.	W29
T 30	14 16 50	5♉15'32	19♑12	24♉13	8♊35	24♉25	15♎57	15♑33	14♍13	4♒23	2♈27	15♐11	16♐45	14♉19	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	2n57	22s53	0n45	7n49	0n52	13n19	0n25	13n45	0n24	6s19	1n32	23s 3	0s11	6n40	0n48	19s55	0s28	14s30	16s40	23s 5	23s11	18n17		n.a.
T 2	3 20	21 27	1 55	8 45	1 3	13 46	0 28	14 0	0 25	6 16	1 32	23 3	0 11	6 41	0 48	19 55	0 28	14 29	16 40	23 5	23 11	18 18		n.a.
F 3	3 43	18 50	2 58	9 41	1 13	14 13	0 31	14 14	0 26	6 13	1 32	23 3	0 11	6 41	0 48	19 55	0 28	14 28	16 40	23 5	23 11	18 20		n.a.
S 4	4 6	15 17	3 49	10 34	1 23	14 40	0 34	14 28	0 26	6 10	1 32	23 2	0 11	6 42	0 48	19 55	0 28	14 28	16 40	23 5	23 10	18 21		n.a.
S 5	4 29	11 6	4 28	11 26	1 33	15 7	0 37	14 41	0 27	6 8	1 32	23 2	0 11	6 43	0 48	19 54	0 28	14 27	16 40	23 4	23 10	18 23		n.a.
M 6	4 52	6 30	4 53	12 16	1 42	15 33	0 39	14 55	0 27	6 5	1 32	23 2	0 12	6 44	0 48	19 54	0 28	14 27	16 40	23 3	23 10	18 24		n.a.
T 7	5 15	1 42	5 3	13 4	1 50	15 58	0 42	15 9	0 28	6 2	1 32	23 2	0 12	6 45	0 48	19 54	0 28	14 26	16 40	23 2	23 9	18 25		n.a.
W 8	5 38	3n 5	4 59	13 49	1 58	16 24	0 45	15 22	0 28	5 59	1 32	23 2	0 12	6 46	0 47	19 54	0 28	14 26	16 40	23 1	23 9	18 27		n.a.
T 9	6 1	7 42	4 41	14 32	2 5	16 49	0 48	15 35	0 29	5 56	1 32	23 2	0 12	6 46	0 47	19 53	0 28	14 25	16 40	23 0	23 9	18 28		n.a.
F 10	6 23	11 58	4 11	15 13	2 12	17 13	0 50	15 49	0 29	5 53	1 32	23 1	0 12	6 47	0 47	19 53	0 28	14 25	16 40	22 59	23 9	18 30		n.a.
S 11	6 46	15 44	3 30	15 51	2 17	17 37	0 53	16 2	0 30	5 50	1 32	23 1	0 12	6 48	0 47	19 53	0 28	14 25	16 40	22 58	23 8	18 31		n.a.
S 12	7 8	18 51	2 41	16 27	2 22	18 1	0 56	16 14	0 30	5 47	1 32	23 1	0 12	6 49	0 47	19 53	0 28	14 24	16 40	22 57	23 8	18 32		n.a.
M13	7 30	21 10	1 44	17 1	2 27	18 24	0 58	16 27	0 31	5 45	1 32	23 1	0 12	6 50	0 47	19 53	0 28	14 24	16 40	22 57	23 8	18 34		n.a.
T 14	7 52	22 34	0 43	17 32	2 30	18 46	1 1	16 40	0 31	5 42	1 31	23 1	0 12	6 50	0 47	19 52	0 28	14 23	16 40	22 57	23 7	18 35		n.a.
W15	8 14	22 57	0s21	18 0	2 33	19 9	1 4	16 52	0 32	5 39	1 31	23 1	0 12	6 51	0 47	19 52	0 28	14 23	16 40	22 57	23 7	18 37		n.a.
T 16	8 36	22 17	1 25	18 26	2 34	19 30	1 6	17 5	0 32	5 36	1 31	23 1	0 13	6 52	0 47	19 52	0 28	14 22	16 40	22 57	23 7	18 38		n.a.
F 17	8 58	20 33	2 26	18 50	2 35	19 52	1 9	17 17	0 33	5 33	1 31	23 1	0 13	6 52	0 47	19 52	0 28	14 22	16 41	22 57	23 7	18 39		n.a.
S 18	9 19	17 48	3 21	19 11	2 35	20 12	1 11	17 29	0 33	5 30	1 31	23 1	0 13	6 53	0 47	19 52	0 28	14 21	16 41	22 57	23 6	18 41		n.a.
S 19	9 41	14 6	4 8	19 29	2 34	20 32	1 14	17 41	0 34	5 27	1 31	23 1	0 13	6 54	0 47	19 52	0 28	14 21	16 41	22 57	23 6	18 42		n.a.
M20	10 2	9 36	4 44	19 46	2 33	20 52	1 16	17 53	0 34	5 25	1 31	23 1	0 13	6 54	0 47	19 52	0 28	14 21	16 41	22 56	23 6	18 44		n.a.
T 21	10 23	4 28	5 4	20 0	2 30	21 11	1 19	18 5	0 35	5 22	1 31	23 1	0 13	6 55	0 47	19 51	0 28	14 20	16 41	22 56	23 5	18 45		n.a.
W22	10 44	1s 5	5 7	20 11	2 26	21 30	1 21	18 16	0 35	5 19	1 31	23 1	0 13	6 56	0 47	19 51	0 28	14 20	16 41	22 55	23 5	18 46		n.a.
T 23	11 5	6 43	4 49	20 20	2 21	21 48	1 24	18 28	0 36	5 16	1 31	23 1	0 13	6 56	0 47	19 51	0 28	14 19	16 41	22 54	23 5	18 48		n.a.
F 24	11 26	12 5	4 11	20 27	2 16	22 5	1 26	18 39	0 36	5 14	1 30	23 1	0 13	6 57	0 47	19 51	0 28	14 19	16 41	22 54	23 4	18 49		n.a.
S 25	11 46	16 45	3 16	20 32	2 9	22 22	1 28	18 50	0 37	5 11	1 30	23 1	0 14	6 57	0 47	19 51	0 28	14 19	16 42	22 53	23 4	18 50		n.a.
S 26	12 6	20 18	2 6	20 34	2 2	22 38	1 30	19 1	0 37	5 8	1 30	23 1	0 14	6 58	0 47	19 51	0 29	14 18	16 42	22 53	23 4	18 52		n.a.
M27	12 26	22 23	0 48	20 35	1 53	22 53	1 32	19 12	0 38	5 6	1 30	23 1	0 14	6 59	0 47	19 51	0 29	14 18	16 42	22 52	23 3	18 53		n.a.
T 28	12 46	22 52	0n32	20 33	1 44	23 8	1 35	19 22	0 38	5 3	1 30	23 1	0 14	6 59	0 47	19 51	0 29	14 18	16 42	22 52	23 3	18 54		n.a.
W29	13 6	21 49	1 47	20 28	1 34	23 23	1 37	19 33	0 39	5 1	1 30	23 1	0 14	7 0	0 47	19 51	0 29	14 17	16 42	22 52	23 3	18 56		n.a.
T 30	13n25	19s26	2n54	20n22	1n23	23n36	1n39	19n43	0n39	4s58	1n29	23s 2	0s14	7n 0	0n47	19s51	0s29	14s17	16s42	22s53	23s 2	18n57		n.a.

Julian Day Number = 1674030.5, Delta T = 03h19m01s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'28, Lahiri = - 5°44'27 Julian Calendar 1 Apr. 130 BCE == Greg. Calendar 29 March 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

MAY 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 20 46	6♉12'56	2♒42	24♉26	9♊46	25♉ 5	15°R50	15°R33	14°R11	4♒24	2♈28	15°R12	16♐41	14♉25	n.a.	F 1
S 2	14 24 43	7°10'19	15°49	24°35	10°57	25°44	15♎43	15♏33	14♍10	4°24	2°30	15♐12	16°38	14°32	n.a.	S 2
S 3	14 28 39	8° 7'41	28°37	24°R40	12° 8	26°24	15°37	15°33	14° 9	4°24	2°31	15°10	16°35	14°39	n.a.	S 3
M 4	14 32 36	9° 5'02	11♓ 8	24°39	13°19	27° 3	15°30	15°32	14° 8	4°25	2°32	15° 7	16°32	14°45	n.a.	M 4
T 5	14 36 32	10° 2'22	23°26	24°35	14°30	27°42	15°24	15°32	14° 7	4°25	2°33	15° 2	16°29	14°52	n.a.	T 5
W 6	14 40 29	10°59'42	5♈33	24°26	15°41	28°22	15°17	15°31	14° 6	4°25	2°34	14°56	16°25	14°59	n.a.	W 6
T 7	14 44 25	11°57'01	17°32	24°12	16°51	29° 1	15°11	15°30	14° 5	4°25	2°35	14°50	16°22	15° 5	n.a.	T 7
F 8	14 48 22	12°54'20	29°26	23°55	18° 2	29°40	15° 5	15°30	14° 4	4°25	2°36	14°45	16°19	15°12	n.a.	F 8
S 9	14 52 19	13°51'37	11♉16	23°35	19°13	0♊20	14°59	15°29	14° 3	4°25	2°37	14°40	16°16	15°19	n.a.	S 9
S 10	14 56 15	14°48'54	23° 4	23°11	20°23	0°59	14°53	15°28	14° 2	4°25	2°39	14°37	16°13	15°25	n.a.	S 10
M11	15 0 12	15°46'10	4♊52	22°44	21°34	1°38	14°48	15°27	14° 1	4°R25	2°40	14°35	16°10	15°32	n.a.	M11
T 12	15 4 8	16°43'26	16°43	22°14	22°44	2°17	14°42	15°25	14° 0	4°25	2°41	14°D35	16° 6	15°39	n.a.	T 12
W13	15 8 5	17°40'40	28°40	21°43	23°55	2°57	14°37	15°24	14° 0	4°25	2°42	14°35	16° 3	15°45	n.a.	W13
T 14	15 12 1	18°37'54	10♋45	21°11	25° 5	3°36	14°31	15°23	13°59	4°25	2°43	14°37	16° 0	15°52	n.a.	T 14
F 15	15 15 58	19°35'07	23° 3	20°37	26°15	4°15	14°26	15°21	13°59	4°25	2°44	14°38	15°57	15°59	n.a.	F 15
S 16	15 19 54	20°32'19	5♌37	20° 3	27°25	4°54	14°21	15°20	13°58	4°25	2°45	14°40	15°54	16° 5	n.a.	S 16
S 17	15 23 51	21°29'30	18°31	19°30	28°35	5°33	14°16	15°18	13°58	4°25	2°46	14°R40	15°50	16°12	n.a.	S 17
M18	15 27 48	22°26'40	1♍49	18°57	29°45	6°12	14°12	15°16	13°57	4°25	2°47	14°40	15°47	16°19	n.a.	M18
T 19	15 31 44	23°23'50	15°33	18°25	0♋55	6°51	14° 7	15°15	13°57	4°24	2°48	14°39	15°44	16°25	n.a.	T 19
W20	15 35 41	24°20'58	29°43	17°56	2° 5	7°30	14° 3	15°13	13°56	4°24	2°49	14°37	15°41	16°32	n.a.	W20
T 21	15 39 37	25°18'06	14♎19	17°29	3°15	8° 9	13°59	15°11	13°56	4°24	2°50	14°35	15°38	16°39	n.a.	T 21
F 22	15 43 34	26°15'14	29°14	17° 5	4°24	8°48	13°55	15° 9	13°56	4°23	2°50	14°32	15°35	16°45	n.a.	F 22
S 23	15 47 30	27°12'21	14♏23	16°45	5°34	9°27	13°51	15° 6	13°56	4°23	2°51	14°30	15°31	16°52	n.a.	S 23
S 24	15 51 27	28° 9'27	29°35	16°28	6°43	10° 6	13°47	15° 4	13°56	4°23	2°52	14°29	15°28	16°59	n.a.	S 24
M25	15 55 23	29° 6'34	14♐41	16°15	7°53	10°45	13°43	15° 2	13°55	4°22	2°53	14°D29	15°25	17° 5	n.a.	M25
T 26	15 59 20	0♊ 3'40	29°33	16° 6	9° 2	11°24	13°40	14°59	13°D55	4°22	2°54	14°29	15°22	17°12	n.a.	T 26
W27	16 3 17	1° 0'46	14♑ 3	16°D 1	10°11	12° 3	13°37	14°57	13°55	4°21	2°55	14°30	15°19	17°19	n.a.	W27
T 28	16 7 13	1°57'52	28° 8	16° 2	11°20	12°42	13°33	14°54	13°56	4°21	2°56	14°31	15°16	17°25	n.a.	T 28
F 29	16 11 10	2°54'58	11♒47	16° 7	12°29	13°21	13°31	14°52	13°56	4°20	2°56	14°32	15°12	17°32	n.a.	F 29
S 30	16 15 6	3°52'05	24°59	16°17	13°38	13°59	13°28	14°49	13°56	4°20	2°57	14°32	15° 9	17°39	n.a.	S 30
S 31	16 19 3	4♊49'11	7♓49	16♉31	14♋46	14♊38	13♎25	14♑46	13♍56	4♒19	2♈58	14°R33	15♐ 6	17♉45	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n45	16s 3	3n50	20n14	1n10	23n49	1n41	19n53	0n40	4s56	1n29	23s 2	0s14	7n 0	0n47	19s50	0s29	14s17	16s43	22s53	23s 2	18n58		n.a.
S 2	14 4	11 57	4 31	20 4	0 57	24 2	1 43	20 3	0 40	4 53	1 29	23 2	0 14	7 1	0 47	19 50	0 29	14 16	16 43	22 53	23 2	19 0		n.a.
S 3	14 23	7 26	4 58	19 51	0 44	24 14	1 44	20 13	0 40	4 51	1 29	23 2	0 14	7 1	0 47	19 50	0 29	14 16	16 43	22 52	23 2	19 1		n.a.
M 4	14 41	2 41	5 10	19 37	0 29	24 25	1 46	20 23	0 41	4 48	1 29	23 2	0 15	7 2	0 47	19 50	0 29	14 16	16 43	22 52	23 1	19 2		n.a.
T 5	15 0	2n 4	5 8	19 21	0 14	24 35	1 48	20 32	0 41	4 46	1 29	23 2	0 15	7 2	0 47	19 50	0 29	14 15	16 43	22 52	23 1	19 3		n.a.
W 6	15 18	6 41	4 52	19 4	0s 2	24 45	1 49	20 42	0 42	4 44	1 28	23 2	0 15	7 3	0 47	19 50	0 29	14 15	16 43	22 51	23 1	19 5		n.a.
T 7	15 36	11 0	4 22	18 45	0 18	24 54	1 51	20 51	0 42	4 42	1 28	23 3	0 15	7 3	0 47	19 50	0 29	14 15	16 44	22 50	23 0	19 6		n.a.
F 8	15 53	14 51	3 42	18 24	0 35	25 2	1 53	21 0	0 43	4 39	1 28	23 3	0 15	7 3	0 47	19 50	0 29	14 15	16 44	22 50	23 0	19 7		n.a.
S 9	16 11	18 6	2 52	18 3	0 52	25 10	1 54	21 9	0 43	4 37	1 28	23 3	0 15	7 3	0 46	19 50	0 29	14 14	16 44	22 49	23 0	19 9		n.a.
S 10	16 28	20 36	1 55	17 40	1 9	25 17	1 55	21 18	0 43	4 35	1 27	23 3	0 15	7 4	0 46	19 50	0 29	14 14	16 44	22 49	22 59	19 10		n.a.
M11	16 45	22 13	0 53	17 17	1 26	25 23	1 57	21 26	0 44	4 33	1 27	23 3	0 15	7 4	0 46	19 50	0 29	14 14	16 44	22 48	22 59	19 11		n.a.
T 12	17 1	22 51	0s12	16 53	1 43	25 28	1 58	21 35	0 44	4 31	1 27	23 4	0 15	7 4	0 46	19 50	0 29	14 14	16 45	22 48	22 59	19 12		n.a.
W13	17 18	22 25	1 17	16 29	1 59	25 33	1 59	21 43	0 45	4 29	1 27	23 4	0 16	7 5	0 46	19 50	0 29	14 14	16 45	22 49	22 58	19 14		n.a.
T 14	17 34	20 57	2 19	16 5	2 15	25 37	2 0	21 51	0 45	4 28	1 27	23 4	0 16	7 5	0 46	19 50	0 29	14 13	16 45	22 49	22 58	19 15		n.a.
F 15	17 50	18 29	3 16	15 41	2 31	25 40	2 1	21 59	0 45	4 26	1 26	23 5	0 16	7 5	0 46	19 51	0 29	14 13	16 45	22 49	22 58	19 16		n.a.
S 16	18 5	15 7	4 5	15 18	2 46	25 43	2 2	22 6	0 46	4 24	1 26	23 5	0 16	7 5	0 46	19 51	0 29	14 13	16 46	22 49	22 57	19 17		n.a.
S 17	18 20	10 57	4 43	14 55	2 59	25 45	2 3	22 14	0 46	4 22	1 26	23 5	0 16	7 5	0 46	19 51	0 29	14 13	16 46	22 49	22 57	19 19		n.a.
M18	18 35	6 10	5 8	14 34	3 12	25 46	2 3	22 21	0 47	4 21	1 26	23 5	0 16	7 5	0 46	19 51	0 29	14 13	16 46	22 49	22 57	19 20		n.a.
T 19	18 50	0 55	5 15	14 14	3 24	25 47	2 4	22 28	0 47	4 19	1 25	23 6	0 16	7 6	0 46	19 51	0 29	14 13	16 46	22 49	22 56	19 21		n.a.
W20	19 4	4s32	5 5	13 56	3 35	25 46	2 5	22 35	0 47	4 18	1 25	23 6	0 16	7 6	0 46	19 51	0 29	14 12	16 47	22 49	22 56	19 22		n.a.
T 21	19 18	9 54	4 34	13 40	3 44	25 45	2 5	22 42	0 48	4 16	1 25	23 6	0 16	7 6	0 46	19 51	0 29	14 12	16 47	22 48	22 56	19 23		n.a.
F 22	19 32	14 49	3 45	13 25	3 52	25 44	2 6	22 49	0 48	4 15	1 25	23 7	0 17	7 6	0 46	19 51	0 29	14 12	16 47	22 48	22 55	19 25		n.a.
S 23	19 45	18 52	2 39	13 13	3 58	25 41	2 6	22 55	0 49	4 14	1 24	23 7	0 17	7 6	0 46	19 51	0 29	14 12	16 47	22 48	22 55	19 26		n.a.
S 24	19 58	21 37	1 22	13 3	4 4	25 38	2 6	23 1	0 49	4 12	1 24	23 7	0 17	7 6	0 46	19 51	0 29	14 12	16 48	22 48	22 54	19 27		n.a.
M25	20 11	22 48	0n 1	12 56	4 8	25 34	2 6	23 7	0 49	4 11	1 24	23 8	0 17	7 6	0 46	19 52	0 29	14 12	16 48	22 48	22 54	19 28		n.a.
T 26	20 24	22 20	1 23	12 51	4 10	25 30	2 6	23 13	0 50	4 10	1 23	23 8	0 17	7 6	0 46	19 52	0 29	14 12	16 48	22 48	22 54	19 29		n.a.
W27	20 36	20 22	2 37	12 48	4 12	25 25	2 6	23 19	0 50	4 9	1 23	23 9	0 17	7 6	0 46	19 52	0 29	14 12	16 49	22 48	22 53	19 31		n.a.
T 28	20 47	17 11	3 39	12 48	4 12	25 19	2 6	23 25	0 50	4 8	1 23	23 9	0 17	7 6	0 46	19 52	0 29	14 12	16 49	22 48	22 53	19 32		n.a.
F 29	20 59	13 11	4 27	12 51	4 10	25 12	2 6	23 30	0 51	4 7	1 23	23 9	0 17	7 6	0 46	19 52	0 29	14 12	16 49	22 48	22 53	19 33		n.a.
S 30	21 10	8 39	4 59	12 56	4 8	25 5	2 5	23 35	0 51	4 7	1 22	23 10	0 17	7 5	0 46	19 52	0 29	14 11	16 49	22 48	22 52	19 34		n.a.
S 31	21n20	3s52	5n15	13n 3	4s 5	24n57	2n 5	23n40	0n51	4s 6	1n22	23s10	0s18	7n 5	0n46	19s52	0s29	14s11	16s50	22s48	22s52	19n35		n.a.

Julian Day Number = 1674060.5, Delta T = 03h19m00s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'24, Lahiri = - 5°44'23 Julian Calendar 1 May 130 BCE == Greg. Calendar 28 Apr. 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

JUNE 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 22 59	5♊46'18	20♓18	16♉51	15♋55	15♊17	13°R23	14°R43	13♍56	4°R18	2♈59	14°R32	15♐ 3	17♉52	n.a.	M 1
T 2	16 26 56	6°43'24	2♈32	17°15	17° 4	15°56	13♎21	14♑40	13°57	4♒18	2°59	14♐32	15° 0	17°59	n.a.	T 2
W 3	16 30 52	7°40'31	14°34	17°44	18°12	16°35	13°19	14°37	13°57	4°17	3° 0	14°31	14°56	18° 5	n.a.	W 3
T 4	16 34 49	8°37'39	26°28	18°18	19°20	17°13	13°17	14°34	13°58	4°16	3° 1	14°30	14°53	18°12	n.a.	T 4
F 5	16 38 46	9°34'46	8♉17	18°57	20°28	17°52	13°15	14°31	13°58	4°16	3° 1	14°29	14°50	18°18	n.a.	F 5
S 6	16 42 42	10°31'54	20° 5	19°41	21°37	18°31	13°14	14°28	13°59	4°15	3° 2	14°29	14°47	18°25	n.a.	S 6
S 7	16 46 39	11°29'03	1♊54	20°29	22°45	19° 9	13°12	14°24	13°59	4°14	3° 3	14°28	14°44	18°32	n.a.	S 7
M 8	16 50 35	12°26'11	13°47	21°22	23°52	19°48	13°11	14°21	14° 0	4°13	3° 3	14°D28	14°41	18°38	n.a.	M 8
T 9	16 54 32	13°23'20	25°46	22°19	25° 0	20°27	13°10	14°18	14° 1	4°12	3° 4	14°28	14°37	18°45	n.a.	T 9
W10	16 58 28	14°20'28	7♋52	23°21	26° 8	21° 5	13° 9	14°14	14° 1	4°11	3° 4	14°R28	14°34	18°52	n.a.	W10
T 11	17 2 25	15°17'37	20° 9	24°28	27°15	21°44	13° 9	14°10	14° 2	4°10	3° 5	14°28	14°31	18°58	n.a.	T 11
F 12	17 6 22	16°14'47	2♌37	25°38	28°22	22°23	13° 8	14° 7	14° 3	4° 9	3° 6	14°28	14°28	19° 5	n.a.	F 12
S 13	17 10 18	17°11'56	15°20	26°54	29°30	23° 1	13° 8	14° 3	14° 4	4° 8	3° 6	14°28	14°25	19°12	n.a.	S 13
S 14	17 14 15	18° 9'05	28°20	28°13	0♌37	23°40	13°D 8	13°59	14° 5	4° 7	3° 7	14°28	14°22	19°18	n.a.	S 14
M15	17 18 11	19° 6'15	11♍38	29°36	1°44	24°18	13° 8	13°56	14° 6	4° 6	3° 7	14°28	14°18	19°25	n.a.	M15
T 16	17 22 8	20° 3'24	25°17	1♊ 4	2°50	24°57	13° 9	13°52	14° 7	4° 5	3° 7	14°D28	14°15	19°32	n.a.	T 16
W17	17 26 4	21° 0'34	9♎17	2°35	3°57	25°36	13° 9	13°48	14° 8	4° 4	3° 8	14°28	14°12	19°38	n.a.	W17
T 18	17 30 1	21°57'44	23°37	4°11	5° 3	26°14	13°10	13°44	14° 9	4° 3	3° 8	14°28	14° 9	19°45	n.a.	T 18
F 19	17 33 57	22°54'54	8♏15	5°50	6°10	26°53	13°11	13°40	14°11	4° 2	3° 9	14°29	14° 6	19°52	n.a.	F 19
S 20	17 37 54	23°52'05	23° 6	7°33	7°16	27°31	13°12	13°36	14°12	4° 1	3° 9	14°30	14° 2	19°58	n.a.	S 20
S 21	17 41 51	24°49'16	8♐ 3	9°19	8°22	28°10	13°13	13°32	14°13	4° 0	3° 9	14°R30	13°59	20° 5	n.a.	S 21
M22	17 45 47	25°46'28	23° 0	11° 9	9°27	28°48	13°14	13°28	14°15	3°59	3°10	14°30	13°56	20°12	n.a.	M22
T 23	17 49 44	26°43'40	7♑47	13° 1	10°33	29°26	13°16	13°23	14°16	3°57	3°10	14°29	13°53	20°18	n.a.	T 23
W24	17 53 40	27°40'53	22°18	14°56	11°38	0♋ 5	13°18	13°19	14°17	3°56	3°10	14°28	13°50	20°25	n.a.	W24
T 25	17 57 37	28°38'07	6♒27	16°54	12°43	0°43	13°19	13°15	14°19	3°55	3°11	14°27	13°47	20°32	n.a.	T 25
F 26	18 1 33	29°35'22	20°11	18°54	13°48	1°22	13°22	13°11	14°21	3°54	3°11	14°25	13°43	20°38	n.a.	F 26
S 27	18 5 30	0♋32'38	3♓30	20°55	14°53	2° 0	13°24	13° 6	14°22	3°52	3°11	14°23	13°40	20°45	n.a.	S 27
S 28	18 9 26	1°29'55	16°23	22°58	15°58	2°39	13°26	13° 2	14°24	3°51	3°11	14°22	13°37	20°52	n.a.	S 28
M29	18 13 23	2°27'13	28°55	25° 3	17° 2	3°17	13°29	12°58	14°26	3°50	3°11	14°D21	13°34	20°58	n.a.	M29
T 30	18 17 20	3♋24'32	11♈ 9	27♊ 8	18♌ 6	3♋55	13♎32	12♑53	14♍27	3♒48	3♈12	14♐21	13♐31	21♉ 5	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n31	0n57	5n16	13n13	4s 0	24n48	2n 4	23n45	0n52	4s 5	1n22	23s11	0s18	7n 5	0n45	19s53	0s30	14s11	16s50	22s48	22s52	19n36		n.a.
T 2	21 41	5 37	5 2	13 25	3 55	24 39	2 3	23 49	0 52	4 5	1 22	23 11	0 18	7 5	0 45	19 53	0 30	14 11	16 50	22 48	22 51	19 38		n.a.
W 3	21 50	10 1	4 35	13 40	3 48	24 29	2 3	23 54	0 53	4 4	1 21	23 12	0 18	7 5	0 45	19 53	0 30	14 11	16 51	22 48	22 51	19 39		n.a.
T 4	21 59	13 59	3 56	13 56	3 41	24 18	2 2	23 58	0 53	4 4	1 21	23 12	0 18	7 5	0 45	19 53	0 30	14 11	16 51	22 48	22 51	19 40		n.a.
F 5	22 8	17 23	3 8	14 14	3 33	24 7	2 1	24 2	0 53	4 3	1 21	23 13	0 18	7 4	0 45	19 53	0 30	14 11	16 51	22 48	22 50	19 41		n.a.
S 6	22 17	20 4	2 11	14 34	3 25	23 55	2 0	24 6	0 54	4 3	1 20	23 13	0 18	7 4	0 45	19 54	0 30	14 11	16 51	22 48	22 50	19 42		n.a.
S 7	22 25	21 54	1 9	14 56	3 15	23 43	1 58	24 9	0 54	4 3	1 20	23 13	0 18	7 4	0 45	19 54	0 30	14 11	16 52	22 48	22 49	19 43		n.a.
M 8	22 33	22 47	0 4	15 20	3 5	23 30	1 57	24 13	0 54	4 2	1 20	23 14	0 18	7 3	0 45	19 54	0 30	14 12	16 52	22 48	22 49	19 44		n.a.
T 9	22 40	22 36	1s 2	15 45	2 55	23 16	1 55	24 16	0 55	4 2	1 19	23 14	0 18	7 3	0 45	19 54	0 30	14 12	16 52	22 48	22 49	19 45		n.a.
W10	22 47	21 22	2 6	16 11	2 44	23 2	1 54	24 19	0 55	4 2	1 19	23 15	0 19	7 3	0 45	19 55	0 30	14 12	16 53	22 48	22 48	19 47		n.a.
T 11	22 53	19 7	3 6	16 38	2 32	22 47	1 52	24 22	0 55	4 2	1 19	23 15	0 19	7 2	0 45	19 55	0 30	14 12	16 53	22 48	22 48	19 48		n.a.
F 12	22 59	15 57	3 57	17 7	2 20	22 31	1 50	24 25	0 56	4 2	1 19	23 16	0 19	7 2	0 45	19 55	0 30	14 12	16 53	22 48	22 48	19 49		n.a.
S 13	23 5	12 0	4 38	17 36	2 8	22 15	1 49	24 27	0 56	4 3	1 18	23 16	0 19	7 2	0 45	19 55	0 30	14 12	16 54	22 48	22 47	19 50		n.a.
S 14	23 10	7 25	5 5	18 7	1 56	21 59	1 47	24 29	0 56	4 3	1 18	23 17	0 19	7 1	0 45	19 56	0 30	14 12	16 54	22 48	22 47	19 51		n.a.
M15	23 15	2 24	5 17	18 37	1 43	21 42	1 44	24 32	0 56	4 3	1 18	23 17	0 19	7 1	0 45	19 56	0 30	14 12	16 54	22 48	22 47	19 52		n.a.
T 16	23 20	2s52	5 12	19 8	1 30	21 24	1 42	24 33	0 57	4 4	1 17	23 18	0 19	7 0	0 45	19 56	0 30	14 12	16 55	22 48	22 46	19 53		n.a.
W17	23 24	8 7	4 48	19 39	1 17	21 6	1 40	24 35	0 57	4 4	1 17	23 18	0 19	7 0	0 45	19 56	0 30	14 12	16 55	22 48	22 46	19 54		n.a.
T 18	23 28	13 5	4 7	20 10	1 4	20 47	1 37	24 37	0 57	4 5	1 17	23 19	0 19	6 59	0 45	19 57	0 30	14 12	16 55	22 48	22 45	19 55		n.a.
F 19	23 31	17 22	3 8	20 41	0 51	20 28	1 35	24 38	0 58	4 5	1 17	23 19	0 20	6 59	0 45	19 57	0 30	14 13	16 56	22 48	22 45	19 56		n.a.
S 20	23 34	20 38	1 56	21 11	0 39	20 9	1 32	24 39	0 58	4 6	1 16	23 20	0 20	6 58	0 45	19 57	0 30	14 13	16 56	22 48	22 45	19 57		n.a.
S 21	23 36	22 29	0 36	21 40	0 26	19 49	1 29	24 40	0 58	4 7	1 16	23 20	0 20	6 58	0 45	19 58	0 30	14 13	16 56	22 48	22 44	19 58		n.a.
M22	23 38	22 44	0n47	22 9	0 14	19 28	1 26	24 41	0 59	4 7	1 16	23 21	0 20	6 57	0 45	19 58	0 30	14 13	16 57	22 48	22 44	19 59		n.a.
T 23	23 40	21 23	2 6	22 36	0 1	19 7	1 23	24 41	0 59	4 8	1 15	23 22	0 20	6 57	0 45	19 58	0 30	14 13	16 57	22 48	22 43	20 1		n.a.
W24	23 41	18 38	3 15	23 1	0n10	18 46	1 20	24 42	0 59	4 9	1 15	23 22	0 20	6 56	0 45	19 58	0 30	14 13	16 57	22 48	22 43	20 2		n.a.
T 25	23 42	14 50	4 10	23 25	0 21	18 24	1 17	24 42	0 59	4 10	1 15	23 23	0 20	6 55	0 44	19 59	0 30	14 14	16 58	22 47	22 43	20 3		n.a.
F 26	23 43	10 21	4 49	23 46	0 32	18 2	1 13	24 42	1 0	4 11	1 14	23 23	0 20	6 55	0 44	19 59	0 30	14 14	16 58	22 47	22 42	20 4		n.a.
S 27	23 43	5 31	5 11	24 6	0 42	17 40	1 10	24 42	1 0	4 13	1 14	23 24	0 20	6 54	0 44	19 59	0 30	14 14	16 58	22 47	22 42	20 5		n.a.
S 28	23 42	0 35	5 16	24 23	0 52	17 17	1 6	24 41	1 0	4 14	1 14	23 24	0 20	6 53	0 44	20 0	0 30	14 14	16 59	22 47	22 42	20 6		n.a.
M29	23 41	4n14	5 6	24 37	1 0	16 54	1 2	24 41	1 1	4 15	1 14	23 25	0 21	6 53	0 44	20 0	0 30	14 15	16 59	22 47	22 41	20 7		n.a.
T 30	23n40	8n47	4n42	24n49	1n 8	16n30	0n58	24n40	1n 1	4s16	1n13	23s25	0s21	6n52	0n44	20s 0	0s30	14s15	16s59	22s47	22s41	20n 8		n.a.

Julian Day Number = 1674091.5, Delta T = 03h18m59s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'19, Lahiri = - 5°44'19 Julian Calendar 1 June 130 BCE == Greg. Calendar 29 May 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

JULY 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 21 16	4♋21'52	23♈10	29♊14	19♌10	4♋34	13♎35	12°R49	14♍29	3°R47	3♈12	14♐22	13♐28	21♉12	n.a.	W 1
T 2	18 25 13	5°19'14	5♉ 2	1♋19	20°14	5°12	13°38	12♏45	14°31	3♒46	3°12	14°23	13°24	21°18	n.a.	T 2
F 3	18 29 9	6°16'37	16°50	3°25	21°18	5°50	13°41	12°40	14°33	3°44	3°12	14°25	13°21	21°25	n.a.	F 3
S 4	18 33 6	7°14'01	28°39	5°31	22°21	6°29	13°45	12°36	14°35	3°43	3°12	14°26	13°18	21°32	n.a.	S 4
S 5	18 37 2	8°11'26	10♊31	7°36	23°24	7° 7	13°48	12°31	14°37	3°41	3°12	14°R27	13°15	21°38	n.a.	S 5
M 6	18 40 59	9° 8'53	22°31	9°40	24°27	7°45	13°52	12°27	14°39	3°40	3°12	14°27	13°12	21°45	n.a.	M 6
T 7	18 44 56	10° 6'21	4♋40	11°43	25°29	8°24	13°56	12°22	14°41	3°39	3°R12	14°26	13° 8	21°52	n.a.	T 7
W 8	18 48 52	11° 3'49	17° 1	13°46	26°32	9° 2	14° 0	12°18	14°43	3°37	3°12	14°23	13° 5	21°58	n.a.	W 8
T 9	18 52 49	12° 1'19	29°34	15°47	27°34	9°40	14° 5	12°13	14°45	3°36	3°12	14°19	13° 2	22° 5	n.a.	T 9
F 10	18 56 45	12°58'51	12♌21	17°47	28°35	10°19	14° 9	12° 9	14°47	3°34	3°12	14°15	12°59	22°12	n.a.	F 10
S 11	19 0 42	13°56'23	25°21	19°46	29°37	10°57	14°14	12° 4	14°50	3°33	3°12	14°10	12°56	22°18	n.a.	S 11
S 12	19 4 38	14°53'56	8♍35	21°43	0♍38	11°35	14°19	12° 0	14°52	3°31	3°12	14° 6	12°53	22°25	n.a.	S 12
M13	19 8 35	15°51'30	22° 3	23°39	1°39	12°14	14°23	11°55	14°54	3°29	3°12	14° 3	12°49	22°32	n.a.	M13
T 14	19 12 31	16°49'05	5♎44	25°34	2°39	12°52	14°29	11°51	14°57	3°28	3°12	14° 1	12°46	22°38	n.a.	T 14
W15	19 16 28	17°46'41	19°39	27°27	3°40	13°30	14°34	11°47	14°59	3°26	3°11	14°D 0	12°43	22°45	n.a.	W15
T 16	19 20 24	18°44'19	3♏47	29°18	4°40	14° 8	14°39	11°42	15° 2	3°25	3°11	14° 1	12°40	22°51	n.a.	T 16
F 17	19 24 21	19°41'57	18° 7	1♌ 8	5°39	14°47	14°45	11°38	15° 4	3°23	3°11	14° 2	12°37	22°58	n.a.	F 17
S 18	19 28 18	20°39'37	2♐35	2°57	6°38	15°25	14°51	11°33	15° 7	3°22	3°11	14° 4	12°34	23° 5	n.a.	S 18
S 19	19 32 14	21°37'18	17°10	4°44	7°37	16° 3	14°56	11°29	15° 9	3°20	3°11	14°R 4	12°30	23°11	n.a.	S 19
M20	19 36 11	22°35'00	1♑44	6°30	8°35	16°41	15° 2	11°25	15°12	3°18	3°10	14° 3	12°27	23°18	n.a.	M20
T 21	19 40 7	23°32'43	16°14	8°15	9°33	17°20	15° 9	11°20	15°15	3°17	3°10	14° 0	12°24	23°25	n.a.	T 21
W22	19 44 4	24°30'28	0♒33	9°58	10°31	17°58	15°15	11°16	15°17	3°15	3°10	13°55	12°21	23°31	n.a.	W22
T 23	19 48 0	25°28'15	14°35	11°39	11°28	18°36	15°21	11°12	15°20	3°14	3°10	13°49	12°18	23°38	n.a.	T 23
F 24	19 51 57	26°26'03	28°16	13°19	12°24	19°14	15°28	11° 7	15°23	3°12	3° 9	13°42	12°14	23°45	n.a.	F 24
S 25	19 55 54	27°23'53	11♓34	14°58	13°21	19°52	15°35	11° 3	15°26	3°10	3° 9	13°35	12°11	23°51	n.a.	S 25
S 26	19 59 50	28°21'44	24°29	16°36	14°16	20°31	15°42	10°59	15°28	3° 9	3° 8	13°29	12° 8	23°58	n.a.	S 26
M27	20 3 47	29°19'38	7♈ 2	18°12	15°12	21° 9	15°49	10°55	15°31	3° 7	3° 8	13°25	12° 5	24° 5	n.a.	M27
T 28	20 7 43	0♌17'33	19°18	19°46	16° 6	21°47	15°56	10°51	15°34	3° 5	3° 8	13°23	12° 2	24°11	n.a.	T 28
W29	20 11 40	1°15'30	1♉19	21°20	17° 0	22°25	16° 3	10°47	15°37	3° 4	3° 7	13°D22	11°59	24°18	n.a.	W29
T 30	20 15 36	2°13'30	13°11	22°52	17°54	23° 3	16°10	10°43	15°40	3° 2	3° 7	13°22	11°55	24°25	n.a.	T 30
F 31	20 19 33	3♌11'31	24♉59	24♌23	18♍47	23♋42	16♎18	10♏39	15♍43	3♒ 0	3♈ 6	13♐24	11♐52	24♉31	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	23n38	12n55	4n 7	24n58	1n16	16n 6	0n54	24n39	1n 1	4s18	1n13	23s26	0s21	6n51	0n44	20s 1	0s30	14s15	17s 0	22s47	22s40	20n 9			n.a.
T 2	23 36	16 30	3 21	25 4	1 22	15 42	0 50	24 38	1 1	4 19	1 13	23 26	0 21	6 50	0 44	20 1	0 30	14 15	17 0	22 47	22 40	20 10			n.a.
F 3	23 34	19 24	2 27	25 8	1 28	15 17	0 46	24 36	1 2	4 21	1 12	23 27	0 21	6 50	0 44	20 2	0 30	14 16	17 0	22 47	22 40	20 11			n.a.
S 4	23 31	21 29	1 26	25 9	1 33	14 52	0 42	24 35	1 2	4 23	1 12	23 27	0 21	6 49	0 44	20 2	0 30	14 16	17 1	22 47	22 39	20 12			n.a.
S 5	23 27	22 38	0 22	25 7	1 37	14 27	0 37	24 33	1 2	4 24	1 12	23 28	0 21	6 48	0 44	20 2	0 30	14 16	17 1	22 48	22 39	20 13			n.a.
M 6	23 23	22 46	0s44	25 2	1 41	14 2	0 33	24 31	1 2	4 26	1 12	23 28	0 21	6 47	0 44	20 3	0 30	14 16	17 1	22 48	22 38	20 14			n.a.
T 7	23 19	21 49	1 49	24 55	1 44	13 36	0 28	24 29	1 3	4 28	1 11	23 29	0 21	6 46	0 44	20 3	0 30	14 17	17 2	22 47	22 38	20 15			n.a.
W 8	23 15	19 49	2 49	24 45	1 46	13 10	0 23	24 27	1 3	4 30	1 11	23 29	0 21	6 46	0 44	20 3	0 30	14 17	17 2	22 47	22 38	20 16			n.a.
T 9	23 10	16 50	3 43	24 32	1 47	12 44	0 18	24 24	1 3	4 32	1 11	23 30	0 22	6 45	0 44	20 4	0 30	14 17	17 2	22 47	22 37	20 16			n.a.
F 10	23 4	13 2	4 26	24 18	1 48	12 18	0 13	24 21	1 3	4 34	1 10	23 30	0 22	6 44	0 44	20 4	0 30	14 18	17 3	22 46	22 37	20 17			n.a.
S 11	22 58	8 34	4 56	24 1	1 48	11 51	0 8	24 18	1 4	4 36	1 10	23 31	0 22	6 43	0 44	20 4	0 30	14 18	17 3	22 46	22 36	20 18			n.a.
S 12	22 52	3 38	5 11	23 42	1 48	11 25	0 2	24 15	1 4	4 38	1 10	23 31	0 22	6 42	0 44	20 5	0 30	14 18	17 3	22 45	22 36	20 19			n.a.
M13	22 45	1s33	5 10	23 22	1 46	10 58	0s 3	24 12	1 4	4 40	1 10	23 32	0 22	6 41	0 44	20 5	0 30	14 19	17 4	22 45	22 36	20 20			n.a.
T 14	22 38	6 44	4 51	22 59	1 45	10 31	0 9	24 9	1 4	4 42	1 9	23 32	0 22	6 40	0 44	20 6	0 30	14 19	17 4	22 44	22 35	20 21			n.a.
W15	22 31	11 41	4 14	22 35	1 43	10 3	0 14	24 5	1 5	4 45	1 9	23 33	0 22	6 39	0 44	20 6	0 30	14 19	17 4	22 44	22 35	20 22			n.a.
T 16	22 23	16 5	3 22	22 9	1 40	9 36	0 20	24 1	1 5	4 47	1 9	23 33	0 22	6 38	0 44	20 6	0 31	14 20	17 5	22 44	22 34	20 23			n.a.
F 17	22 15	19 36	2 17	21 42	1 37	9 9	0 26	23 57	1 5	4 49	1 8	23 34	0 22	6 37	0 44	20 7	0 31	14 20	17 5	22 45	22 34	20 24			n.a.
S 18	22 6	21 56	1 2	21 14	1 33	8 41	0 32	23 53	1 5	4 52	1 8	23 34	0 22	6 36	0 44	20 7	0 31	14 21	17 5	22 45	22 33	20 25			n.a.
S 19	21 57	22 48	0n17	20 44	1 29	8 13	0 38	23 49	1 5	4 54	1 8	23 35	0 22	6 35	0 44	20 8	0 31	14 21	17 6	22 45	22 33	20 26			n.a.
M20	21 48	22 7	1 35	20 13	1 25	7 46	0 44	23 44	1 6	4 57	1 8	23 35	0 22	6 34	0 44	20 8	0 31	14 21	17 6	22 45	22 33	20 27			n.a.
T 21	21 38	19 58	2 46	19 41	1 20	7 18	0 50	23 40	1 6	5 0	1 7	23 36	0 23	6 33	0 43	20 8	0 31	14 22	17 6	22 44	22 32	20 28			n.a.
W22	21 28	16 35	3 46	19 9	1 14	6 50	0 57	23 35	1 6	5 2	1 7	23 36	0 23	6 32	0 43	20 9	0 31	14 22	17 7	22 44	22 32	20 28			n.a.
T 23	21 17	12 20	4 30	18 35	1 9	6 22	1 3	23 30	1 6	5 5	1 7	23 37	0 23	6 31	0 43	20 9	0 31	14 23	17 7	22 43	22 31	20 29			n.a.
F 24	21 6	7 33	4 58	18 1	1 3	5 54	1 10	23 25	1 6	5 8	1 7	23 37	0 23	6 29	0 43	20 10	0 31	14 23	17 7	22 42	22 31	20 30			n.a.
S 25	20 55	2 33	5 9	17 26	0 57	5 26	1 17	23 19	1 7	5 11	1 6	23 37	0 23	6 28	0 43	20 10	0 31	14 24	17 8	22 41	22 31	20 31			n.a.
S 26	20 43	2n25	5 4	16 50	0 50	4 58	1 24	23 14	1 7	5 14	1 6	23 38	0 23	6 27	0 43	20 10	0 31	14 24	17 8	22 41	22 30	20 32			n.a.
M27	20 31	7 9	4 44	16 14	0 44	4 30	1 31	23 8	1 7	5 17	1 6	23 38	0 23	6 26	0 43	20 11	0 31	14 24	17 8	22 40	22 30	20 33			n.a.
T 28	20 19	11 30	4 11	15 38	0 37	4 2	1 38	23 2	1 7	5 20	1 6	23 39	0 23	6 25	0 43	20 11	0 31	14 25	17 9	22 40	22 29	20 34			n.a.
W29	20 6	15 18	3 28	15 1	0 30	3 35	1 45	22 56	1 7	5 23	1 5	23 39	0 23	6 24	0 43	20 11	0 31	14 25	17 9	22 40	22 29	20 35			n.a.
T 30	19 53	18 27	2 36	14 24	0 22	3 7	1 52	22 50	1 8	5 26	1 5	23 40	0 23	6 23	0 43	20 12	0 31	14 26	17 9	22 40	22 28	20 35			n.a.
F 31	19n40	20n49	1n38	13n46	0n15	2n39	2s 0	22n43	1n 8	5s29	1n 5	23s40	0s23	6n21	0n43	20s12	0s31	14s26	17s10	22s40	22s28	20n36			n.a.

Julian Day Number = 1674121.5, Delta T = 03h18m58s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'15, Lahiri = - 5°44'15 Julian Calendar 1 July 130 BCE == Greg. Calendar 28 June 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

AUGUST 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 29	4♌ 9'34	6♊49	25♌52	19♍40	24♋20	16♎26	10°R35	15♍46	2°R59	3°R 6	13♐25	11♐49	24♉38	n.a.	S 1
S 2	20 27 26	5° 7'40	18°45	27°20	20°32	24°58	16°33	10♏31	15°49	2♒57	3♈ 5	13°R25	11°46	24°45	n.a.	S 2
M 3	20 31 23	6° 5'47	0♋52	28°47	21°23	25°36	16°41	10°27	15°52	2°56	3° 5	13°23	11°43	24°51	n.a.	M 3
T 4	20 35 19	7° 3'56	13°12	0♍12	22°14	26°14	16°49	10°23	15°55	2°54	3° 4	13°19	11°40	24°58	n.a.	T 4
W 5	20 39 16	8° 2'07	25°48	1°36	23° 4	26°53	16°58	10°20	15°59	2°52	3° 4	13°13	11°36	25° 5	n.a.	W 5
T 6	20 43 12	9° 0'20	8♌40	2°58	23°53	27°31	17° 6	10°16	16° 2	2°51	3° 3	13° 5	11°33	25°11	n.a.	T 6
F 7	20 47 9	9°58'35	21°49	4°19	24°42	28° 9	17°14	10°12	16° 5	2°49	3° 2	12°55	11°30	25°18	n.a.	F 7
S 8	20 51 5	10°56'52	5♍13	5°38	25°29	28°47	17°23	10° 9	16° 8	2°47	3° 2	12°45	11°27	25°24	n.a.	S 8
S 9	20 55 2	11°55'10	18°50	6°56	26°16	29°25	17°32	10° 5	16°11	2°46	3° 1	12°36	11°24	25°31	n.a.	S 9
M10	20 58 58	12°53'30	2♎37	8°12	27° 3	0♌ 3	17°40	10° 2	16°15	2°44	3° 0	12°29	11°20	25°38	n.a.	M10
T 11	21 2 55	13°51'52	16°32	9°27	27°48	0°42	17°49	9°59	16°18	2°43	3° 0	12°23	11°17	25°44	n.a.	T 11
W12	21 6 51	14°50'16	0♏33	10°40	28°32	1°20	17°58	9°55	16°21	2°41	2°59	12°20	11°14	25°51	n.a.	W12
T 13	21 10 48	15°48'41	14°37	11°51	29°16	1°58	18° 7	9°52	16°25	2°39	2°58	12°D19	11°11	25°58	n.a.	T 13
F 14	21 14 45	16°47'08	28°46	13° 0	29°59	2°36	18°17	9°49	16°28	2°38	2°58	12°20	11° 8	26° 4	n.a.	F 14
S 15	21 18 41	17°45'36	12♐56	14° 7	0♎40	3°14	18°26	9°46	16°32	2°36	2°57	12°R20	11° 5	26°11	n.a.	S 15
S 16	21 22 38	18°44'07	27° 6	15°12	1°21	3°53	18°36	9°43	16°35	2°35	2°56	12°19	11° 1	26°18	n.a.	S 16
M17	21 26 34	19°42'39	11♑16	16°14	2° 0	4°31	18°45	9°40	16°39	2°33	2°55	12°16	10°58	26°24	n.a.	M17
T 18	21 30 31	20°41'13	25°20	17°14	2°38	5° 9	18°55	9°37	16°42	2°31	2°55	12°11	10°55	26°31	n.a.	T 18
W19	21 34 27	21°39'48	9♒16	18°12	3°16	5°47	19° 5	9°35	16°46	2°30	2°54	12° 2	10°52	26°38	n.a.	W19
T 20	21 38 24	22°38'26	23° 0	19° 7	3°51	6°25	19°14	9°32	16°49	2°28	2°53	11°52	10°49	26°44	n.a.	T 20
F 21	21 42 20	23°37'06	6♓28	19°58	4°26	7° 3	19°24	9°29	16°53	2°27	2°52	11°40	10°46	26°51	n.a.	F 21
S 22	21 46 17	24°35'48	19°37	20°47	4°59	7°42	19°34	9°27	16°56	2°25	2°51	11°28	10°42	26°58	n.a.	S 22
S 23	21 50 14	25°34'32	2♈27	21°32	5°31	8°20	19°45	9°24	17° 0	2°24	2°50	11°18	10°39	27° 4	n.a.	S 23
M24	21 54 10	26°33'18	14°57	22°13	6° 2	8°58	19°55	9°22	17° 3	2°22	2°50	11° 9	10°36	27°11	n.a.	M24
T 25	21 58 7	27°32'06	27°11	22°51	6°31	9°36	20° 5	9°20	17° 7	2°21	2°49	11° 3	10°33	27°18	n.a.	T 25
W26	22 2 3	28°30'57	9♉12	23°23	6°58	10°14	20°16	9°18	17°11	2°20	2°48	10°59	10°30	27°24	n.a.	W26
T 27	22 6 0	29°29'51	21° 4	23°52	7°24	10°52	20°26	9°16	17°14	2°18	2°47	10°58	10°26	27°31	n.a.	T 27
F 28	22 9 56	0♍28'46	2♊52	24°15	7°49	11°31	20°37	9°14	17°18	2°17	2°46	10°D57	10°23	27°37	n.a.	F 28
S 29	22 13 53	1°27'44	14°42	24°32	8°11	12° 9	20°47	9°12	17°22	2°15	2°45	10°R57	10°20	27°44	n.a.	S 29
S 30	22 17 49	2°26'45	26°39	24°44	8°32	12°47	20°58	9°10	17°25	2°14	2°44	10°57	10°17	27°51	n.a.	S 30
M31	22 21 46	3♍25'48	8♋49	24°R50	8♎51	13♌25	21♎ 9	9♑ 8	17♍29	2♒13	2♈43	10♐54	10♐14	27♉57	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n26	22n17	0n36	13n 9	0n 7	2n12	2s 7	22n37	1n 8	5s32	1n 5	23s40	0s23	6n20	0n43	20s13	0s31	14s27	17s10	22s40	22s28	20n37		n.a.
S 2	19 12	22 45	0s29	12 31	0s 1	1 44	2 15	22 30	1 8	5 35	1 4	23 41	0 23	6 19	0 43	20 13	0 31	14 27	17 10	22 40	22 27	20 38		n.a.
M 3	18 58	22 10	1 33	11 53	0 9	1 17	2 22	22 23	1 8	5 39	1 4	23 41	0 24	6 18	0 43	20 13	0 31	14 28	17 10	22 40	22 27	20 39		n.a.
T 4	18 43	20 30	2 33	11 15	0 17	0 49	2 30	22 16	1 9	5 42	1 4	23 41	0 24	6 16	0 43	20 14	0 31	14 28	17 11	22 39	22 26	20 40		n.a.
W 5	18 28	17 50	3 27	10 38	0 26	0 22	2 38	22 9	1 9	5 45	1 4	23 42	0 24	6 15	0 43	20 14	0 31	14 29	17 11	22 39	22 26	20 40		n.a.
T 6	18 12	14 15	4 12	10 0	0 34	0s 5	2 46	22 1	1 9	5 49	1 3	23 42	0 24	6 14	0 43	20 15	0 31	14 29	17 11	22 38	22 25	20 41		n.a.
F 7	17 57	9 54	4 45	9 22	0 43	0 31	2 54	21 54	1 9	5 52	1 3	23 43	0 24	6 13	0 43	20 15	0 31	14 30	17 12	22 36	22 25	20 42		n.a.
S 8	17 41	5 1	5 2	8 45	0 51	0 58	3 2	21 46	1 9	5 56	1 3	23 43	0 24	6 11	0 43	20 15	0 31	14 30	17 12	22 35	22 25	20 43		n.a.
S 9	17 25	0s10	5 3	8 8	1 0	1 24	3 10	21 38	1 9	5 59	1 3	23 43	0 24	6 10	0 43	20 16	0 31	14 31	17 12	22 34	22 24	20 44		n.a.
M10	17 8	5 25	4 46	7 31	1 9	1 50	3 19	21 30	1 10	6 3	1 3	23 44	0 24	6 9	0 43	20 16	0 31	14 31	17 12	22 33	22 24	20 44		n.a.
T 11	16 51	10 27	4 13	6 55	1 18	2 16	3 27	21 22	1 10	6 7	1 2	23 44	0 24	6 7	0 43	20 17	0 31	14 32	17 13	22 32	22 23	20 45		n.a.
W12	16 34	14 58	3 24	6 19	1 26	2 42	3 35	21 14	1 10	6 10	1 2	23 44	0 24	6 6	0 43	20 17	0 31	14 32	17 13	22 32	22 23	20 46		n.a.
T 13	16 17	18 40	2 22	5 44	1 35	3 7	3 44	21 5	1 10	6 14	1 2	23 44	0 24	6 5	0 43	20 17	0 31	14 33	17 13	22 32	22 22	20 47		n.a.
F 14	15 59	21 17	1 12	5 9	1 44	3 32	3 52	20 56	1 10	6 18	1 2	23 45	0 24	6 3	0 43	20 18	0 31	14 33	17 13	22 32	22 22	20 47		n.a.
S 15	15 41	22 33	0n 3	4 35	1 53	3 57	4 1	20 48	1 10	6 22	1 1	23 45	0 24	6 2	0 43	20 18	0 31	14 34	17 14	22 32	22 21	20 48		n.a.
S 16	15 23	22 23	1 18	4 2	2 1	4 21	4 9	20 39	1 11	6 25	1 1	23 45	0 24	6 1	0 43	20 18	0 31	14 34	17 14	22 32	22 21	20 49		n.a.
M17	15 4	20 47	2 28	3 30	2 10	4 45	4 18	20 30	1 11	6 29	1 1	23 46	0 24	5 59	0 43	20 19	0 31	14 35	17 14	22 31	22 21	20 50		n.a.
T 18	14 46	17 55	3 28	2 58	2 19	5 8	4 27	20 20	1 11	6 33	1 1	23 46	0 25	5 58	0 43	20 19	0 31	14 35	17 14	22 30	22 20	20 51		n.a.
W19	14 27	14 3	4 15	2 28	2 27	5 31	4 36	20 11	1 11	6 37	1 1	23 46	0 25	5 56	0 43	20 20	0 31	14 36	17 15	22 29	22 20	20 51		n.a.
T 20	14 7	9 30	4 46	1 59	2 35	5 53	4 44	20 2	1 11	6 41	1 0	23 46	0 25	5 55	0 43	20 20	0 31	14 36	17 15	22 28	22 19	20 52		n.a.
F 21	13 48	4 35	5 1	1 31	2 43	6 15	4 53	19 52	1 11	6 45	1 0	23 47	0 25	5 54	0 43	20 20	0 31	14 37	17 15	22 26	22 19	20 53		n.a.
S 22	13 28	0n25	4 59	1 5	2 51	6 37	5 2	19 42	1 11	6 49	1 0	23 47	0 25	5 52	0 43	20 21	0 31	14 37	17 15	22 25	22 18	20 53		n.a.
S 23	13 8	5 17	4 42	0 40	2 58	6 58	5 11	19 32	1 12	6 53	1 0	23 47	0 25	5 51	0 43	20 21	0 31	14 38	17 15	22 23	22 18	20 54		n.a.
M24	12 48	9 49	4 12	0 17	3 6	7 18	5 20	19 22	1 12	6 57	1 0	23 47	0 25	5 49	0 43	20 21	0 31	14 38	17 16	22 22	22 17	20 55		n.a.
T 25	12 28	13 51	3 30	0s 4	3 12	7 38	5 29	19 12	1 12	7 1	0 59	23 48	0 25	5 48	0 43	20 22	0 31	14 39	17 16	22 21	22 17	20 56		n.a.
W26	12 7	17 15	2 40	0 23	3 19	7 57	5 37	19 2	1 12	7 5	0 59	23 48	0 25	5 46	0 43	20 22	0 31	14 39	17 16	22 21	22 16	20 56		n.a.
T 27	11 47	19 53	1 44	0 40	3 25	8 15	5 46	18 51	1 12	7 10	0 59	23 48	0 25	5 45	0 43	20 22	0 31	14 40	17 16	22 20	22 16	20 57		n.a.
F 28	11 26	21 40	0 43	0 54	3 30	8 33	5 55	18 41	1 12	7 14	0 59	23 48	0 25	5 44	0 43	20 23	0 31	14 41	17 16	22 20	22 15	20 58		n.a.
S 29	11 5	22 30	0s20	1 5	3 34	8 50	6 3	18 30	1 12	7 18	0 59	23 48	0 25	5 42	0 43	20 23	0 31	14 41	17 17	22 20	22 15	20 58		n.a.
S 30	10 43	22 18	1 22	1 13	3 38	9 6	6 12	18 19	1 12	7 22	0 59	23 48	0 25	5 41	0 43	20 23	0 31	14 42	17 17	22 20	22 15	20 59		n.a.
M31	10n22	21n 3	2s22	1s18	3s41	9s22	6s20	18n 8	1n13	7s27	0n58	23s49	0s25	5n39	0n43	20s24	0s31	14s42	17s17	22s20	22s14	21n 0		n.a.

Julian Day Number = 1674152.5, Delta T = 03h18m57s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'11, Lahiri = - 5°44'11 Julian Calendar 1 Aug. 130 BCE == Greg. Calendar 29 July 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

SEPTEMBER 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 25 43	4♍24'53	21♋16	24°R48	9♎ 8	14♌ 3	21♎20	9°R 7	17♍33	2°R11	2°R42	10°R49	10♐11	28♉ 4	n.a.	T 1
W 2	22 29 39	5°24'01	4♌ 3	24♍40	9°24	14°42	21°31	9♑ 5	17°36	2♒10	2♈41	10♐41	10° 7	28°11	n.a.	W 2
T 3	22 33 36	6°23'10	17°11	24°24	9°37	15°20	21°42	9° 4	17°40	2° 9	2°40	10°31	10° 4	28°17	n.a.	T 3
F 4	22 37 32	7°22'22	0♍41	24° 0	9°48	15°58	21°54	9° 2	17°44	2° 7	2°39	10°18	10° 1	28°24	n.a.	F 4
S 5	22 41 29	8°21'37	14°29	23°29	9°57	16°36	22° 5	9° 1	17°48	2° 6	2°38	10° 6	9°58	28°31	n.a.	S 5
S 6	22 45 25	9°20'53	28°33	22°50	10° 4	17°15	22°16	9° 0	17°51	2° 5	2°37	9°54	9°55	28°37	n.a.	S 6
M 7	22 49 22	10°20'11	12♎46	22° 3	10° 9	17°53	22°28	8°59	17°55	2° 4	2°36	9°44	9°51	28°44	n.a.	M 7
T 8	22 53 18	11°19'31	27° 4	21° 9	10°11	18°31	22°39	8°58	17°59	2° 2	2°35	9°37	9°48	28°51	n.a.	T 8
W 9	22 57 15	12°18'54	11♏22	20° 9	10°R11	19° 9	22°51	8°57	18° 3	2° 1	2°34	9°32	9°45	28°57	n.a.	W 9
T 10	23 1 11	13°18'18	25°36	19° 3	10° 9	19°47	23° 2	8°56	18° 6	2° 0	2°33	9°30	9°42	29° 4	n.a.	T 10
F 11	23 5 8	14°17'44	9♐45	17°54	10° 4	20°26	23°14	8°56	18°10	1°59	2°32	9°30	9°39	29°11	n.a.	F 11
S 12	23 9 5	15°17'12	23°47	16°42	9°57	21° 4	23°26	8°55	18°14	1°58	2°31	9°30	9°36	29°17	n.a.	S 12
S 13	23 13 1	16°16'42	7♑42	15°30	9°47	21°42	23°38	8°55	18°18	1°57	2°30	9°29	9°32	29°24	n.a.	S 13
M14	23 16 58	17°16'13	21°30	14°20	9°35	22°20	23°50	8°54	18°22	1°56	2°28	9°25	9°29	29°31	n.a.	M14
T 15	23 20 54	18°15'47	5♒10	13°14	9°21	22°59	24° 2	8°54	18°25	1°55	2°27	9°19	9°26	29°37	n.a.	T 15
W16	23 24 51	19°15'22	18°41	12°13	9° 4	23°37	24°14	8°54	18°29	1°54	2°26	9°10	9°23	29°44	n.a.	W16
T 17	23 28 47	20°14'59	2♓ 1	11°19	8°45	24°15	24°26	8°D54	18°33	1°53	2°25	8°58	9°20	29°50	n.a.	T 17
F 18	23 32 44	21°14'38	15° 8	10°35	8°24	24°53	24°38	8°54	18°37	1°52	2°24	8°46	9°17	29°57	n.a.	F 18
S 19	23 36 40	22°14'20	28° 0	10° 1	8° 0	25°32	24°50	8°54	18°40	1°51	2°23	8°33	9°13	0♊ 4	n.a.	S 19
S 20	23 40 37	23°14'03	10♈38	9°37	7°35	26°10	25° 3	8°55	18°44	1°50	2°22	8°21	9°10	0°10	n.a.	S 20
M21	23 44 34	24°13'49	23° 0	9°25	7° 7	26°48	25°15	8°55	18°48	1°49	2°21	8°11	9° 7	0°17	n.a.	M21
T 22	23 48 30	25°13'36	5♉ 9	9°D23	6°38	27°26	25°27	8°55	18°52	1°48	2°19	8° 4	9° 4	0°24	n.a.	T 22
W23	23 52 27	26°13'26	17° 7	9°33	6° 7	28° 5	25°40	8°56	18°56	1°48	2°18	7°59	9° 1	0°30	n.a.	W23
T 24	23 56 23	27°13'19	28°57	9°54	5°34	28°43	25°52	8°57	18°59	1°47	2°17	7°57	8°57	0°37	n.a.	T 24
F 25	0 0 20	28°13'13	10♊44	10°24	5° 1	29°21	26° 5	8°58	19° 3	1°46	2°16	7°D57	8°54	0°44	n.a.	F 25
S 26	0 4 16	29°13'10	22°33	11° 4	4°26	29°59	26°18	8°58	19° 7	1°45	2°15	7°57	8°51	0°50	n.a.	S 26
S 27	0 8 13	0♎13'10	4♋29	11°52	3°51	0♍38	26°30	8°59	19°11	1°45	2°14	7°R57	8°48	0°57	n.a.	S 27
M28	0 12 9	1°13'11	16°38	12°47	3°15	1°16	26°43	9° 0	19°14	1°44	2°13	7°56	8°45	1° 4	n.a.	M28
T 29	0 16 6	2°13'15	29° 6	13°49	2°38	1°55	26°56	9° 2	19°18	1°43	2°12	7°53	8°42	1°10	n.a.	T 29
W30	0 20 2	3♎13'21	11♌55	14♍57	2♎ 2	2♍33	27♎ 8	9♑ 3	19♍22	1♒43	2♈10	7♐47	8♐38	1♊17	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	10n 0	18n47	3s16	1s19	3s43	9s36	6s29	17n57	1n13	7s31	0n58	23s49	0s25	5n38	0n43	20s24	0s31	14s43	17s17	22s19	22s14	21n 0		n.a.
W 2	9 38	15 33	4 2	1 16	3 43	9 50	6 37	17 46	1 13	7 35	0 58	23 49	0 25	5 36	0 43	20 24	0 31	14 43	17 17	22 18	22 13	21 1		n.a.
T 3	9 16	11 28	4 36	1 9	3 43	10 2	6 45	17 35	1 13	7 40	0 58	23 49	0 25	5 35	0 43	20 24	0 31	14 44	17 17	22 17	22 13	21 2		n.a.
F 4	8 54	6 44	4 56	0 58	3 41	10 14	6 53	17 23	1 13	7 44	0 58	23 49	0 25	5 33	0 43	20 25	0 31	14 44	17 18	22 15	22 12	21 2		n.a.
S 5	8 32	1 34	5 0	0 42	3 37	10 24	7 0	17 12	1 13	7 48	0 57	23 49	0 26	5 32	0 43	20 25	0 31	14 45	17 18	22 13	22 12	21 3		n.a.
S 6	8 9	3s46	4 45	0 22	3 32	10 34	7 8	17 0	1 13	7 53	0 57	23 50	0 26	5 30	0 43	20 25	0 31	14 45	17 18	22 11	22 11	21 4		n.a.
M 7	7 47	8 58	4 13	0n 4	3 25	10 42	7 15	16 48	1 13	7 57	0 57	23 50	0 26	5 29	0 43	20 26	0 31	14 46	17 18	22 10	22 11	21 4		n.a.
T 8	7 24	13 43	3 24	0 34	3 15	10 49	7 21	16 37	1 13	8 2	0 57	23 50	0 26	5 27	0 43	20 26	0 31	14 46	17 18	22 9	22 10	21 5		n.a.
W 9	7 1	17 40	2 23	1 8	3 4	10 55	7 28	16 25	1 13	8 6	0 57	23 50	0 26	5 26	0 43	20 26	0 31	14 47	17 18	22 8	22 10	21 6		n.a.
T 10	6 38	20 33	1 13	1 45	2 51	11 0	7 34	16 12	1 14	8 11	0 57	23 50	0 26	5 24	0 43	20 26	0 31	14 47	17 18	22 8	22 9	21 6		n.a.
F 11	6 15	22 9	0n 1	2 27	2 36	11 3	7 40	16 0	1 14	8 15	0 56	23 50	0 26	5 23	0 43	20 27	0 31	14 48	17 18	22 8	22 9	21 7		n.a.
S 12	5 52	22 19	1 15	3 10	2 20	11 5	7 45	15 48	1 14	8 20	0 56	23 50	0 26	5 21	0 42	20 27	0 31	14 49	17 19	22 8	22 8	21 8		n.a.
S 13	5 28	21 6	2 23	3 55	2 1	11 5	7 49	15 36	1 14	8 24	0 56	23 50	0 26	5 20	0 42	20 27	0 31	14 49	17 19	22 7	22 8	21 8		n.a.
M14	5 5	18 38	3 23	4 40	1 42	11 4	7 54	15 23	1 14	8 29	0 56	23 50	0 26	5 18	0 42	20 27	0 31	14 50	17 19	22 7	22 7	21 9		n.a.
T 15	4 42	15 9	4 10	5 24	1 22	11 2	7 57	15 11	1 14	8 34	0 56	23 50	0 26	5 17	0 43	20 28	0 31	14 50	17 19	22 6	22 7	21 9		n.a.
W16	4 18	10 55	4 42	6 6	1 2	10 58	8 0	14 58	1 14	8 38	0 56	23 50	0 26	5 15	0 42	20 28	0 31	14 51	17 19	22 4	22 6	21 10		n.a.
T 17	3 54	6 14	4 59	6 46	0 41	10 52	8 3	14 45	1 14	8 43	0 56	23 50	0 26	5 14	0 42	20 28	0 31	14 51	17 19	22 3	22 6	21 11		n.a.
F 18	3 31	1 20	4 59	7 21	0 21	10 45	8 4	14 32	1 14	8 47	0 55	23 50	0 26	5 12	0 42	20 28	0 31	14 52	17 19	22 1	22 5	21 11		n.a.
S 19	3 7	3n32	4 44	7 52	0 2	10 37	8 5	14 19	1 14	8 52	0 55	23 50	0 26	5 11	0 42	20 28	0 31	14 52	17 19	21 59	22 5	21 12		n.a.
S 20	2 43	8 9	4 15	8 18	0n17	10 27	8 5	14 6	1 14	8 57	0 55	23 51	0 26	5 9	0 42	20 29	0 31	14 53	17 19	21 57	22 5	21 12		n.a.
M21	2 19	12 21	3 35	8 39	0 34	10 15	8 4	13 53	1 14	9 1	0 55	23 51	0 26	5 8	0 42	20 29	0 31	14 53	17 19	21 55	22 4	21 13		n.a.
T 22	1 55	15 58	2 45	8 54	0 49	10 2	8 3	13 40	1 14	9 6	0 55	23 51	0 26	5 6	0 42	20 29	0 31	14 54	17 19	21 54	22 4	21 13		n.a.
W23	1 31	18 52	1 48	9 3	1 4	9 47	8 1	13 26	1 15	9 11	0 55	23 51	0 26	5 5	0 42	20 29	0 31	14 54	17 19	21 53	22 3	21 14		n.a.
T 24	1 7	20 56	0 48	9 7	1 16	9 31	7 57	13 13	1 15	9 16	0 55	23 51	0 26	5 3	0 42	20 29	0 31	14 54	17 19	21 53	22 3	21 15		n.a.
F 25	0 43	22 4	0s15	9 6	1 28	9 14	7 53	12 59	1 15	9 20	0 54	23 51	0 26	5 2	0 42	20 30	0 31	14 55	17 19	21 53	22 2	21 15		n.a.
S 26	0 19	22 13	1 17	9 0	1 37	8 55	7 48	12 46	1 15	9 25	0 54	23 50	0 26	5 0	0 43	20 30	0 31	14 55	17 19	21 53	22 2	21 16		n.a.
S 27	0s 5	21 21	2 17	8 49	1 45	8 36	7 42	12 32	1 15	9 30	0 54	23 50	0 26	4 59	0 43	20 30	0 31	14 56	17 19	21 53	22 1	21 16		n.a.
M28	0 29	19 30	3 11	8 33	1 52	8 15	7 35	12 18	1 15	9 35	0 54	23 50	0 26	4 57	0 43	20 30	0 31	14 56	17 19	21 53	22 1	21 17		n.a.
T 29	0 54	16 42	3 58	8 14	1 57	7 53	7 27	12 5	1 15	9 39	0 54	23 50	0 27	4 56	0 43	20 30	0 31	14 57	17 19	21 52	22 0	21 17		n.a.
W30	1s18	13n 1	4s34	7n51	2n 1	7s31	7s19	11n51	1n15	9s44	0n54	23s50	0s27	4n54	0n43	20s30	0s31	14s57	17s19	21s51	22s 0	21n18		n.a.

Julian Day Number = 1674183.5, Delta T = 03h18m56s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'07, Lahiri = - 5°44'06 Julian Calendar 1 Sept. 130 BCE == Greg. Calendar 29 Aug. 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

OCTOBER 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 23 59	4♎13'29	25♌10	16♍10	1°R26	3♍11	27♎21	9♉ 4	19♍25	1°R42	2°R 9	7°R39	8♐35	1♊23	n.a.	T 1
F 2	0 27 56	5°13'39	8♍51	17°27	0♎50	3°50	27°34	9° 6	19°29	1♒42	2♈ 8	7♐29	8°32	1°30	n.a.	F 2
S 3	0 31 52	6°13'52	22°56	18°48	0°14	4°28	27°47	9° 7	19°33	1°41	2° 7	7°18	8°29	1°37	n.a.	S 3
S 4	0 35 49	7°14'06	7♎21	20°12	29♍40	5° 6	28° 0	9° 9	19°37	1°41	2° 6	7° 9	8°26	1°43	n.a.	S 4
M 5	0 39 45	8°14'22	22° 0	21°39	29° 7	5°45	28°13	9°11	19°40	1°40	2° 5	7° 0	8°22	1°50	n.a.	M 5
T 6	0 43 42	9°14'40	6♏44	23° 8	28°35	6°23	28°26	9°13	19°44	1°40	2° 4	6°54	8°19	1°57	n.a.	T 6
W 7	0 47 38	10°15'00	21°27	24°39	28° 4	7° 1	28°39	9°15	19°47	1°40	2° 2	6°51	8°16	2° 3	n.a.	W 7
T 8	0 51 35	11°15'21	6♐ 2	26°11	27°36	7°40	28°52	9°17	19°51	1°39	2° 1	6°D50	8°13	2°10	n.a.	T 8
F 9	0 55 31	12°15'44	20°25	27°45	27° 9	8°18	29° 5	9°19	19°55	1°39	2° 0	6°51	8°10	2°17	n.a.	F 9
S 10	0 59 28	13°16'09	4♑33	29°19	26°44	8°56	29°18	9°21	19°58	1°39	1°59	6°51	8° 7	2°23	n.a.	S 10
S 11	1 3 25	14°16'35	18°26	0♎54	26°21	9°35	29°32	9°24	20° 2	1°39	1°58	6°R52	8° 3	2°30	n.a.	S 11
M12	1 7 21	15°17'02	2♒ 4	2°30	26° 0	10°13	29°45	9°26	20° 5	1°38	1°57	6°50	8° 0	2°37	n.a.	M12
T 13	1 11 18	16°17'31	15°27	4° 6	25°41	10°51	29°58	9°29	20° 9	1°38	1°56	6°47	7°57	2°43	n.a.	T 13
W14	1 15 14	17°18'01	28°37	5°42	25°25	11°30	0♏11	9°32	20°12	1°38	1°55	6°41	7°54	2°50	n.a.	W14
T 15	1 19 11	18°18'33	11♓35	7°18	25°12	12° 8	0°25	9°34	20°16	1°38	1°53	6°33	7°51	2°57	n.a.	T 15
F 16	1 23 7	19°19'06	24°20	8°55	25° 0	12°46	0°38	9°37	20°19	1°38	1°52	6°24	7°48	3° 3	n.a.	F 16
S 17	1 27 4	20°19'41	6♈53	10°31	24°52	13°25	0°51	9°40	20°23	1°D38	1°51	6°15	7°44	3°10	n.a.	S 17
S 18	1 31 0	21°20'17	19°15	12° 8	24°45	14° 3	1° 5	9°43	20°26	1°38	1°50	6° 7	7°41	3°16	n.a.	S 18
M19	1 34 57	22°20'55	1♉25	13°44	24°42	14°42	1°18	9°46	20°29	1°38	1°49	6° 0	7°38	3°23	n.a.	M19
T 20	1 38 54	23°21'34	13°27	15°20	24°D40	15°20	1°31	9°49	20°33	1°38	1°48	5°56	7°35	3°30	n.a.	T 20
W21	1 42 50	24°22'15	25°20	16°57	24°41	15°58	1°45	9°53	20°36	1°38	1°47	5°53	7°32	3°36	n.a.	W21
T 22	1 46 47	25°22'58	7♊ 8	18°33	24°45	16°37	1°58	9°56	20°39	1°38	1°46	5°D52	7°28	3°43	n.a.	T 22
F 23	1 50 43	26°23'42	18°54	20° 8	24°51	17°15	2°12	10° 0	20°43	1°38	1°45	5°53	7°25	3°50	n.a.	F 23
S 24	1 54 40	27°24'29	0♋42	21°44	24°59	17°54	2°25	10° 3	20°46	1°39	1°44	5°55	7°22	3°56	n.a.	S 24
S 25	1 58 36	28°25'16	12°37	23°20	25°10	18°32	2°39	10° 7	20°49	1°39	1°43	5°57	7°19	4° 3	n.a.	S 25
M26	2 2 33	29°26'06	24°44	24°55	25°22	19°10	2°52	10°11	20°52	1°39	1°42	5°R58	7°16	4°10	n.a.	M26
T 27	2 6 29	0♏26'57	7♌ 8	26°30	25°37	19°49	3° 5	10°15	20°55	1°39	1°41	5°57	7°13	4°16	n.a.	T 27
W28	2 10 26	1°27'49	19°53	28° 5	25°54	20°27	3°19	10°18	20°59	1°40	1°40	5°56	7° 9	4°23	n.a.	W28
T 29	2 14 23	2°28'43	3♍ 4	29°40	26°13	21° 6	3°32	10°22	21° 2	1°40	1°39	5°53	7° 6	4°30	n.a.	T 29
F 30	2 18 19	3°29'39	16°43	1♏15	26°34	21°44	3°46	10°27	21° 5	1°41	1°38	5°48	7° 3	4°36	n.a.	F 30
S 31	2 22 16	4♏30'36	0♎50	2♏50	26♍57	22♍23	3♏59	10♉31	21♍ 8	1♒41	1♈37	5♐43	7♐ 0	4♊43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	1s42	8n37	4s57	7n25	2n 4	7s 7	7s 9	11n37	1n15	9s49	0n54	23s50	0s27	4n53	0n43	20s30	0s31	14s58	17s19	21s50	21s59	21n18			n.a.
F 2	2 6	3 39	5 4	6 56	2 6	6 44	6 59	11 23	1 15	9 54	0 54	23 50	0 27	4 52	0 43	20 31	0 31	14 58	17 19	21 48	21 59	21 19			n.a.
S 3	2 30	1s39	4 53	6 25	2 7	6 20	6 48	11 9	1 15	9 58	0 53	23 50	0 27	4 50	0 43	20 31	0 31	14 58	17 19	21 47	21 58	21 19			n.a.
S 4	2 54	6 58	4 23	5 52	2 7	5 55	6 37	10 54	1 15	10 3	0 53	23 50	0 27	4 49	0 43	20 31	0 31	14 59	17 19	21 45	21 58	21 20			n.a.
M 5	3 18	12 0	3 36	5 16	2 6	5 31	6 25	10 40	1 15	10 8	0 53	23 50	0 27	4 47	0 43	20 31	0 31	14 59	17 19	21 44	21 57	21 20			n.a.
T 6	3 42	16 20	2 34	4 39	2 5	5 6	6 12	10 26	1 15	10 13	0 53	23 50	0 27	4 46	0 43	20 31	0 31	15 0	17 19	21 42	21 57	21 21			n.a.
W 7	4 6	19 38	1 22	4 1	2 2	4 42	5 59	10 11	1 15	10 18	0 53	23 50	0 27	4 44	0 43	20 31	0 31	15 0	17 19	21 42	21 56	21 21			n.a.
T 8	4 30	21 38	0 4	3 21	2 0	4 18	5 45	9 57	1 15	10 22	0 53	23 50	0 27	4 43	0 43	20 31	0 31	15 0	17 19	21 42	21 55	21 22			n.a.
F 9	4 54	22 9	1n12	2 41	1 56	3 54	5 31	9 42	1 15	10 27	0 53	23 50	0 27	4 41	0 43	20 31	0 31	15 1	17 19	21 42	21 55	21 22			n.a.
S 10	5 18	21 15	2 23	2 0	1 53	3 31	5 17	9 28	1 15	10 32	0 53	23 49	0 27	4 40	0 43	20 31	0 31	15 1	17 19	21 42	21 54	21 23			n.a.
S 11	5 41	19 3	3 25	1 17	1 48	3 8	5 2	9 13	1 15	10 37	0 53	23 49	0 27	4 39	0 43	20 31	0 31	15 2	17 19	21 42	21 54	21 23			n.a.
M12	6 5	15 49	4 13	0 35	1 44	2 47	4 47	8 59	1 15	10 41	0 53	23 49	0 27	4 37	0 43	20 31	0 31	15 2	17 19	21 42	21 53	21 24			n.a.
T 13	6 29	11 49	4 47	0s 8	1 39	2 26	4 32	8 44	1 15	10 46	0 52	23 49	0 27	4 36	0 43	20 31	0 31	15 2	17 18	21 41	21 53	21 24			n.a.
W14	6 52	7 20	5 5	0 51	1 34	2 5	4 17	8 29	1 15	10 51	0 52	23 49	0 27	4 35	0 43	20 31	0 31	15 3	17 18	21 40	21 52	21 24			n.a.
T 15	7 15	2 35	5 6	1 35	1 28	1 46	4 2	8 14	1 15	10 56	0 52	23 49	0 27	4 33	0 43	20 31	0 31	15 3	17 18	21 39	21 52	21 25			n.a.
F 16	7 39	2n12	4 53	2 19	1 23	1 28	3 47	7 59	1 15	11 1	0 52	23 48	0 27	4 32	0 43	20 31	0 31	15 3	17 18	21 37	21 51	21 25			n.a.
S 17	8 2	6 49	4 25	3 2	1 17	1 11	3 33	7 45	1 15	11 5	0 52	23 48	0 27	4 30	0 43	20 31	0 31	15 4	17 18	21 36	21 51	21 26			n.a.
S 18	8 25	11 5	3 45	3 46	1 11	0 55	3 18	7 30	1 15	11 10	0 52	23 48	0 27	4 29	0 43	20 31	0 31	15 4	17 18	21 34	21 50	21 26			n.a.
M19	8 48	14 51	2 56	4 29	1 4	0 40	3 3	7 15	1 15	11 15	0 52	23 48	0 27	4 28	0 43	20 31	0 31	15 4	17 18	21 33	21 50	21 27			n.a.
T 20	9 10	17 56	1 59	5 13	0 58	0 26	2 49	7 0	1 15	11 20	0 52	23 48	0 27	4 26	0 43	20 31	0 31	15 5	17 18	21 32	21 49	21 27			n.a.
W21	9 33	20 14	0 57	5 56	0 52	0 14	2 34	6 44	1 15	11 24	0 52	23 47	0 27	4 25	0 43	20 31	0 31	15 5	17 17	21 32	21 49	21 27			n.a.
T 22	9 56	21 38	0s 7	6 39	0 45	0 2	2 20	6 29	1 15	11 29	0 52	23 47	0 27	4 24	0 43	20 31	0 31	15 5	17 17	21 32	21 48	21 28			n.a.
F 23	10 18	22 4	1 10	7 22	0 39	0n 8	2 7	6 14	1 15	11 34	0 52	23 47	0 27	4 23	0 43	20 31	0 31	15 5	17 17	21 32	21 48	21 28			n.a.
S 24	10 40	21 31	2 11	8 4	0 32	0 17	1 53	5 59	1 15	11 39	0 51	23 47	0 27	4 21	0 43	20 31	0 31	15 6	17 17	21 32	21 47	21 29			n.a.
S 25	11 2	20 0	3 7	8 46	0 25	0 25	1 40	5 44	1 15	11 43	0 51	23 47	0 27	4 20	0 43	20 31	0 31	15 6	17 17	21 32	21 47	21 29			n.a.
M26	11 24	17 33	3 56	9 28	0 19	0 32	1 27	5 28	1 15	11 48	0 51	23 46	0 28	4 19	0 43	20 31	0 31	15 6	17 17	21 33	21 46	21 29			n.a.
T 27	11 45	14 16	4 34	10 9	0 12	0 37	1 15	5 13	1 15	11 53	0 51	23 46	0 28	4 18	0 43	20 31	0 31	15 6	17 16	21 33	21 46	21 30			n.a.
W28	12 7	10 15	5 1	10 50	0 6	0 42	1 2	4 58	1 15	11 58	0 51	23 46	0 28	4 16	0 43	20 31	0 31	15 6	17 16	21 32	21 45	21 30			n.a.
T 29	12 28	5 38	5 13	11 30	0s 1	0 45	0 50	4 42	1 15	12 2	0 51	23 45	0 28	4 15	0 43	20 31	0 31	15 7	17 16	21 32	21 45	21 31			n.a.
F 30	12 49	0 35	5 7	12 10	0 8	0 47	0 39	4 27	1 14	12 7	0 51	23 45	0 28	4 14	0 43	20 31	0 31	15 7	17 16	21 31	21 44	21 31			n.a.
S 31	13s10	4s40	4s44	12s49	0s14	0n48	0s28	4n12	1n14	12s12	0n51	23s45	0s28	4n13	0n43	20s31	0s31	15s 7	17s16	21s30	21s43	21n31			n.a.

Julian Day Number = 1674213.5, Delta T = 03h18m55s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°51'03, Lahiri = - 5°44'02 Julian Calendar 1 Oct. 130 BCE == Greg. Calendar 28 Sept. 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

NOVEMBER 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 26 12	5♏31'34	15♎22	4♏24	27♍22	23♍ 1	4♏13	10♉35	21♍11	1♒42	1°R36	5°R39	6♐57	4♊49	n.a.	S 1
M 2	2 30 9	6°32'34	0♏14	5°59	27°48	23°39	4°26	10°39	21°14	1°42	1♈35	5♐35	6°54	4°56	n.a.	M 2
T 3	2 34 5	7°33'34	15°17	7°33	28°17	24°18	4°40	10°44	21°17	1°43	1°34	5°32	6°50	5° 3	n.a.	T 3
W 4	2 38 2	8°34'36	0♐23	9° 8	28°46	24°56	4°53	10°48	21°19	1°43	1°34	5°D31	6°47	5° 9	n.a.	W 4
T 5	2 41 58	9°35'39	15°22	10°42	29°18	25°35	5° 7	10°53	21°22	1°44	1°33	5°31	6°44	5°16	n.a.	T 5
F 6	2 45 55	10°36'43	0♑ 6	12°16	29°51	26°13	5°20	10°57	21°25	1°45	1°32	5°32	6°41	5°23	n.a.	F 6
S 7	2 49 52	11°37'48	14°32	13°51	0♎25	26°52	5°34	11° 2	21°28	1°45	1°31	5°34	6°38	5°29	n.a.	S 7
S 8	2 53 48	12°38'53	28°36	15°25	1° 1	27°30	5°47	11° 7	21°31	1°46	1°30	5°35	6°34	5°36	n.a.	S 8
M 9	2 57 45	13°39'59	12♒17	16°59	1°38	28° 9	6° 1	11°12	21°33	1°47	1°29	5°R35	6°31	5°43	n.a.	M 9
T 10	3 1 41	14°41'05	25°37	18°33	2°16	28°47	6°14	11°17	21°36	1°48	1°28	5°35	6°28	5°49	n.a.	T 10
W11	3 5 38	15°42'12	8♓37	20° 8	2°56	29°25	6°28	11°22	21°39	1°48	1°28	5°34	6°25	5°56	n.a.	W11
T 12	3 9 34	16°43'19	21°20	21°42	3°37	0♎ 4	6°41	11°27	21°41	1°49	1°27	5°31	6°22	6° 3	n.a.	T 12
F 13	3 13 31	17°44'27	3♈49	23°17	4°19	0°42	6°54	11°32	21°44	1°50	1°26	5°29	6°19	6° 9	n.a.	F 13
S 14	3 17 27	18°45'35	16° 5	24°51	5° 2	1°21	7° 8	11°37	21°46	1°51	1°25	5°26	6°15	6°16	n.a.	S 14
S 15	3 21 24	19°46'44	28°12	26°26	5°46	1°59	7°21	11°43	21°49	1°52	1°25	5°23	6°12	6°23	n.a.	S 15
M16	3 25 21	20°47'54	10♉11	28° 1	6°32	2°38	7°34	11°48	21°51	1°53	1°24	5°21	6° 9	6°29	n.a.	M16
T 17	3 29 17	21°49'04	22° 4	29°35	7°18	3°16	7°48	11°53	21°53	1°54	1°23	5°20	6° 6	6°36	n.a.	T 17
W18	3 33 14	22°50'14	3♊54	1♐10	8° 5	3°55	8° 1	11°59	21°56	1°55	1°23	5°D20	6° 3	6°42	n.a.	W18
T 19	3 37 10	23°51'26	15°41	2°45	8°53	4°33	8°14	12° 4	21°58	1°56	1°22	5°20	5°59	6°49	n.a.	T 19
F 20	3 41 7	24°52'38	27°29	4°20	9°42	5°11	8°28	12°10	22° 0	1°57	1°21	5°21	5°56	6°56	n.a.	F 20
S 21	3 45 3	25°53'50	9♋20	5°55	10°32	5°50	8°41	12°16	22° 2	1°58	1°21	5°22	5°53	7° 2	n.a.	S 21
S 22	3 49 0	26°55'03	21°18	7°30	11°23	6°28	8°54	12°21	22° 4	2° 0	1°20	5°23	5°50	7° 9	n.a.	S 22
M23	3 52 56	27°56'17	3♌26	9° 6	12°15	7° 7	9° 7	12°27	22° 7	2° 1	1°20	5°23	5°47	7°16	n.a.	M23
T 24	3 56 53	28°57'31	15°48	10°41	13° 7	7°45	9°20	12°33	22° 9	2° 2	1°19	5°24	5°44	7°22	n.a.	T 24
W25	4 0 50	29°58'46	28°29	12°16	14° 0	8°24	9°33	12°39	22°11	2° 3	1°19	5°R24	5°40	7°29	n.a.	W25
T 26	4 4 46	1♐ 0'01	11♍32	13°50	14°54	9° 2	9°46	12°45	22°13	2° 5	1°18	5°24	5°37	7°36	n.a.	T 26
F 27	4 8 43	2° 1'17	25° 1	15°25	15°48	9°41	9°59	12°51	22°14	2° 6	1°18	5°24	5°34	7°42	n.a.	F 27
S 28	4 12 39	3° 2'34	8♎56	16°59	16°43	10°19	10°12	12°57	22°16	2° 7	1°17	5°23	5°31	7°49	n.a.	S 28
S 29	4 16 36	4° 3'50	23°19	18°33	17°39	10°57	10°25	13° 3	22°18	2° 9	1°17	5°23	5°28	7°56	n.a.	S 29
M30	4 20 32	5♐ 5'07	8♏ 5	20♐ 6	18♎35	11♎36	10♏38	13♑ 9	22♍20	2♒10	1♈16	5°D23	5♐25	8♊ 2	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s31	9s49	4s 1	13s27	0s21	0n48	0s17	3n56	1n14	12s16	0n51	23s45	0s28	4n12	0n43	20s30	0s31	15s 7	17s15	21s29	21s43	21n32		n.a.
M 2	13 51	14 31	3 2	14 5	0 27	0 47	0 6	3 41	1 14	12 21	0 51	23 44	0 28	4 10	0 43	20 30	0 31	15 7	17 15	21 29	21 42	21 32		n.a.
T 3	14 11	18 20	1 49	14 43	0 33	0 46	0n 4	3 25	1 14	12 26	0 51	23 44	0 28	4 9	0 43	20 30	0 31	15 8	17 15	21 28	21 42	21 32		n.a.
W 4	14 31	20 55	0 28	15 20	0 40	0 43	0 14	3 10	1 14	12 30	0 51	23 44	0 28	4 8	0 43	20 30	0 31	15 8	17 15	21 28	21 41	21 33		n.a.
T 5	14 51	22 0	0n54	15 56	0 46	0 39	0 24	2 54	1 14	12 35	0 51	23 43	0 28	4 7	0 43	20 30	0 31	15 8	17 14	21 28	21 41	21 33		n.a.
F 6	15 10	21 31	2 11	16 31	0 52	0 34	0 33	2 39	1 14	12 39	0 51	23 43	0 28	4 6	0 43	20 30	0 31	15 8	17 14	21 28	21 40	21 33		n.a.
S 7	15 30	19 37	3 19	17 5	0 58	0 29	0 42	2 23	1 14	12 44	0 50	23 43	0 28	4 5	0 43	20 30	0 31	15 8	17 14	21 28	21 40	21 34		n.a.
S 8	15 48	16 33	4 13	17 39	1 4	0 22	0 51	2 8	1 14	12 48	0 50	23 42	0 28	4 4	0 43	20 29	0 31	15 8	17 14	21 29	21 39	21 34		n.a.
M 9	16 7	12 40	4 50	18 12	1 9	0 15	0 59	1 52	1 14	12 53	0 50	23 42	0 28	4 3	0 43	20 29	0 31	15 8	17 13	21 29	21 39	21 34		n.a.
T 10	16 25	8 15	5 11	18 44	1 15	0 7	1 7	1 37	1 14	12 58	0 50	23 41	0 28	4 2	0 43	20 29	0 31	15 8	17 13	21 29	21 38	21 35		n.a.
W11	16 44	3 34	5 15	19 16	1 20	0s 2	1 15	1 21	1 13	13 2	0 50	23 41	0 28	4 1	0 43	20 29	0 31	15 8	17 13	21 28	21 37	21 35		n.a.
T 12	17 1	1n10	5 4	19 46	1 25	0 12	1 23	1 6	1 13	13 7	0 50	23 41	0 28	4 0	0 43	20 29	0 31	15 8	17 13	21 28	21 37	21 35		n.a.
F 13	17 19	5 47	4 38	20 15	1 30	0 22	1 30	0 50	1 13	13 11	0 50	23 40	0 28	3 59	0 43	20 28	0 31	15 9	17 12	21 28	21 36	21 36		n.a.
S 14	17 36	10 5	4 0	20 44	1 35	0 33	1 37	0 34	1 13	13 15	0 50	23 40	0 28	3 58	0 43	20 28	0 31	15 9	17 12	21 27	21 36	21 36		n.a.
S 15	17 53	13 56	3 12	21 11	1 39	0 45	1 43	0 19	1 13	13 20	0 50	23 39	0 28	3 57	0 43	20 28	0 31	15 9	17 12	21 27	21 35	21 36		n.a.
M16	18 9	17 10	2 15	21 37	1 44	0 57	1 49	0 3	1 13	13 24	0 50	23 39	0 28	3 56	0 43	20 28	0 31	15 9	17 12	21 26	21 35	21 36		n.a.
T 17	18 26	19 40	1 13	22 3	1 48	1 10	1 55	0s12	1 13	13 29	0 50	23 39	0 28	3 55	0 43	20 28	0 31	15 9	17 11	21 26	21 34	21 37		n.a.
W18	18 41	21 18	0 8	22 27	1 52	1 23	2 1	0 28	1 12	13 33	0 50	23 38	0 28	3 54	0 44	20 27	0 31	15 9	17 11	21 26	21 34	21 37		n.a.
T 19	18 57	21 59	0s57	22 50	1 55	1 38	2 7	0 43	1 12	13 37	0 50	23 38	0 28	3 53	0 44	20 27	0 31	15 9	17 11	21 26	21 33	21 37		n.a.
F 20	19 12	21 41	2 0	23 11	1 58	1 52	2 12	0 59	1 12	13 42	0 50	23 37	0 28	3 52	0 44	20 27	0 31	15 9	17 10	21 26	21 32	21 37		n.a.
S 21	19 27	20 25	2 58	23 32	2 1	2 8	2 17	1 14	1 12	13 46	0 50	23 37	0 29	3 52	0 44	20 26	0 31	15 9	17 10	21 26	21 32	21 38		n.a.
S 22	19 41	18 14	3 49	23 51	2 4	2 23	2 21	1 30	1 12	13 50	0 50	23 36	0 29	3 51	0 44	20 26	0 31	15 8	17 10	21 26	21 31	21 38		n.a.
M23	19 55	15 14	4 30	24 8	2 6	2 39	2 26	1 45	1 12	13 55	0 50	23 36	0 29	3 50	0 44	20 26	0 31	15 8	17 9	21 27	21 31	21 38		n.a.
T 24	20 9	11 30	5 0	24 25	2 8	2 56	2 30	2 1	1 12	13 59	0 50	23 35	0 29	3 49	0 44	20 26	0 31	15 8	17 9	21 27	21 30	21 38		n.a.
W25	20 22	7 12	5 16	24 39	2 9	3 13	2 34	2 16	1 11	14 3	0 50	23 35	0 29	3 48	0 44	20 25	0 31	15 8	17 9	21 27	21 30	21 39		n.a.
T 26	20 35	2 27	5 16	24 52	2 10	3 31	2 38	2 32	1 11	14 7	0 50	23 34	0 29	3 48	0 44	20 25	0 31	15 8	17 8	21 27	21 29	21 39		n.a.
F 27	20 48	2s34	5 0	25 4	2 11	3 49	2 41	2 47	1 11	14 12	0 50	23 34	0 29	3 47	0 44	20 25	0 31	15 8	17 8	21 27	21 28	21 39		n.a.
S 28	21 0	7 38	4 25	25 14	2 11	4 7	2 45	3 3	1 11	14 16	0 50	23 33	0 29	3 46	0 44	20 24	0 31	15 8	17 8	21 27	21 28	21 39		n.a.
S 29	21 12	12 27	3 34	25 22	2 10	4 25	2 48	3 18	1 11	14 20	0 50	23 32	0 29	3 46	0 44	20 24	0 31	15 8	17 7	21 27	21 27	21 40		n.a.
M30	21s23	16s40	2s26	25s29	2s 9	4s44	2n51	3s34	1n10	14s24	0n50	23s32	0s29	3n45	0n44	20s24	0s31	15s 8	17s 7	21s27	21s27	21n40		n.a.

Julian Day Number = 1674244.5, Delta T = 03h18m54s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'59, Lahiri = - 5°43'58 Julian Calendar 1 Nov. 130 BCE == Greg. Calendar 29 Oct. 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 130 BCE
geocentric

DECEMBER 130 BCE (-129) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 24 29	6♐ 6'25	23♏ 9	21♐39	19♎32	12♎14	10♏51	13♑15	22♍22	2♒11	1°R16	5♐23	5♐21	8♊ 9	n.a.	T 1
W 2	4 28 25	7° 7'42	8♐22	23°11	20°30	12°53	11° 4	13°22	22°23	2°13	1♈15	5°R23	5°18	8°15	n.a.	W 2
T 3	4 32 22	8° 9'00	23°35	24°41	21°28	13°31	11°17	13°28	22°25	2°14	1°15	5°23	5°15	8°22	n.a.	T 3
F 4	4 36 19	9°10'17	8♑38	26°10	22°26	14°10	11°30	13°34	22°26	2°16	1°15	5°23	5°12	8°29	n.a.	F 4
S 5	4 40 15	10°11'34	23°23	27°38	23°25	14°48	11°42	13°41	22°28	2°18	1°14	5°22	5° 9	8°35	n.a.	S 5
S 6	4 44 12	11°12'51	7♒44	29° 3	24°24	15°26	11°55	13°47	22°29	2°19	1°14	5°22	5° 5	8°42	n.a.	S 6
M 7	4 48 8	12°14'07	21°38	0♑26	25°24	16° 5	12° 8	13°54	22°31	2°21	1°14	5°21	5° 2	8°49	n.a.	M 7
T 8	4 52 5	13°15'22	5♓ 4	1°46	26°25	16°43	12°20	14° 0	22°32	2°22	1°14	5°21	4°59	8°55	n.a.	T 8
W 9	4 56 1	14°16'37	18° 6	3° 2	27°25	17°22	12°33	14° 7	22°33	2°24	1°13	5°D21	4°56	9° 2	n.a.	W 9
T 10	4 59 58	15°17'52	0♈45	4°15	28°26	18° 0	12°45	14°13	22°34	2°26	1°13	5°21	4°53	9° 9	n.a.	T 10
F 11	5 3 55	16°19'05	13° 7	5°23	29°28	18°38	12°57	14°20	22°36	2°27	1°13	5°22	4°50	9°15	n.a.	F 11
S 12	5 7 51	17°20'18	25°14	6°25	0♏30	19°17	13°10	14°27	22°37	2°29	1°13	5°23	4°46	9°22	n.a.	S 12
S 13	5 11 48	18°21'31	7♉11	7°21	1°32	19°55	13°22	14°33	22°38	2°31	1°13	5°24	4°43	9°29	n.a.	S 13
M14	5 15 44	19°22'43	19° 2	8°10	2°35	20°33	13°34	14°40	22°39	2°33	1°12	5°25	4°40	9°35	n.a.	M14
T 15	5 19 41	20°23'54	0♊50	8°50	3°38	21°12	13°46	14°47	22°40	2°34	1°12	5°R26	4°37	9°42	n.a.	T 15
W16	5 23 37	21°25'05	12°38	9°22	4°41	21°50	13°58	14°54	22°41	2°36	1°12	5°26	4°34	9°49	n.a.	W16
T 17	5 27 34	22°26'15	24°27	9°44	5°45	22°29	14°11	15° 0	22°41	2°38	1°12	5°25	4°31	9°55	n.a.	T 17
F 18	5 31 30	23°27'25	6♋20	9°56	6°49	23° 7	14°22	15° 7	22°42	2°40	1°12	5°23	4°27	10° 2	n.a.	F 18
S 19	5 35 27	24°28'34	18°19	9°R56	7°53	23°45	14°34	15°14	22°43	2°42	1°D12	5°20	4°24	10° 8	n.a.	S 19
S 20	5 39 24	25°29'42	0♌26	9°45	8°57	24°24	14°46	15°21	22°43	2°44	1°12	5°17	4°21	10°15	n.a.	S 20
M21	5 43 20	26°30'49	12°42	9°22	10° 2	25° 2	14°58	15°28	22°44	2°45	1°12	5°13	4°18	10°22	n.a.	M21
T 22	5 47 17	27°31'57	25°11	8°47	11° 7	25°40	15°10	15°35	22°45	2°47	1°12	5°10	4°15	10°28	n.a.	T 22
W23	5 51 13	28°33'03	7♍54	8° 2	12°13	26°18	15°21	15°42	22°45	2°49	1°12	5° 8	4°11	10°35	n.a.	W23
T 24	5 55 10	29°34'09	20°55	7° 7	13°18	26°57	15°33	15°49	22°46	2°51	1°12	5° 6	4° 8	10°42	n.a.	T 24
F 25	5 59 6	0♑35'14	4♎15	6° 4	14°24	27°35	15°44	15°56	22°46	2°53	1°13	5°D 6	4° 5	10°48	n.a.	F 25
S 26	6 3 3	1°36'19	17°57	4°54	15°30	28°13	15°56	16° 3	22°46	2°55	1°13	5° 7	4° 2	10°55	n.a.	S 26
S 27	6 6 59	2°37'23	2♏ 3	3°40	16°36	28°52	16° 7	16°10	22°47	2°57	1°13	5° 8	3°59	11° 2	n.a.	S 27
M28	6 10 56	3°38'26	16°30	2°25	17°43	29°30	16°18	16°17	22°47	2°59	1°13	5°10	3°56	11° 8	n.a.	M28
T 29	6 14 53	4°39'29	1♐18	1° 9	18°50	0♏ 8	16°29	16°25	22°47	3° 1	1°13	5°R11	3°52	11°15	n.a.	T 29
W30	6 18 49	5°40'31	16°19	29♐56	19°56	0°46	16°40	16°32	22°47	3° 3	1°14	5°10	3°49	11°22	n.a.	W30
T 31	6 22 46	6♑41'32	1♑27	28♐47	21♏ 4	1♏24	16♏51	16♑39	22°R47	3♒ 6	1♈14	5♐ 8	3♐46	11♊28	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	21s34	19s52	1s 8	25s34	2s 8	5s 4	2n53	3s49	1n10	14s28	0n50	23s31	0s29	3n44	0n44	20s23	0s31	15s 8	17s 7	21s27	21s26	21n40			n.a.
W 2	21 45	21 41	0n17	25 37	2 5	5 23	2 56	4 4	1 10	14 32	0 50	23 31	0 29	3 44	0 44	20 23	0 31	15 7	17 6	21 27	21 26	21 40			n.a.
T 3	21 55	21 54	1 40	25 38	2 2	5 43	2 58	4 19	1 10	14 36	0 50	23 30	0 29	3 43	0 44	20 23	0 31	15 7	17 6	21 27	21 25	21 40			n.a.
F 4	22 4	20 31	2 55	25 38	1 59	6 3	3 0	4 35	1 10	14 40	0 50	23 30	0 29	3 42	0 44	20 22	0 31	15 7	17 6	21 26	21 24	21 41			n.a.
S 5	22 14	17 46	3 57	25 36	1 54	6 23	3 2	4 50	1 9	14 44	0 49	23 29	0 29	3 42	0 44	20 22	0 31	15 7	17 5	21 26	21 24	21 41			n.a.
S 6	22 23	14 0	4 42	25 31	1 49	6 43	3 4	5 5	1 9	14 48	0 49	23 28	0 29	3 41	0 44	20 22	0 31	15 7	17 5	21 26	21 23	21 41			n.a.
M 7	22 31	9 35	5 9	25 25	1 43	7 4	3 5	5 20	1 9	14 52	0 49	23 28	0 29	3 41	0 44	20 21	0 31	15 6	17 5	21 26	21 23	21 41			n.a.
T 8	22 39	4 50	5 18	25 18	1 36	7 25	3 6	5 35	1 9	14 56	0 49	23 27	0 29	3 40	0 44	20 21	0 31	15 6	17 4	21 26	21 22	21 41			n.a.
W 9	22 46	0 0	5 10	25 8	1 28	7 46	3 7	5 50	1 8	15 0	0 49	23 26	0 29	3 40	0 44	20 21	0 31	15 6	17 4	21 26	21 22	21 41			n.a.
T 10	22 53	4n41	4 47	24 57	1 19	8 7	3 8	6 5	1 8	15 3	0 49	23 26	0 29	3 39	0 44	20 20	0 31	15 6	17 4	21 26	21 21	21 42			n.a.
F 11	23 0	9 5	4 12	24 44	1 8	8 28	3 9	6 20	1 8	15 7	0 49	23 25	0 29	3 39	0 44	20 20	0 31	15 6	17 3	21 26	21 20	21 42			n.a.
S 12	23 6	13 3	3 25	24 30	0 57	8 49	3 10	6 35	1 8	15 11	0 49	23 24	0 30	3 39	0 44	20 19	0 31	15 5	17 3	21 27	21 20	21 42			n.a.
S 13	23 12	16 26	2 31	24 15	0 45	9 10	3 10	6 50	1 7	15 15	0 49	23 24	0 30	3 38	0 44	20 19	0 31	15 5	17 3	21 27	21 19	21 42			n.a.
M14	23 17	19 7	1 30	23 59	0 31	9 31	3 11	7 5	1 7	15 18	0 49	23 23	0 30	3 38	0 44	20 19	0 31	15 5	17 2	21 27	21 19	21 42			n.a.
T 15	23 21	20 58	0 25	23 41	0 17	9 53	3 11	7 20	1 7	15 22	0 49	23 22	0 30	3 37	0 45	20 18	0 31	15 4	17 2	21 27	21 18	21 42			n.a.
W16	23 26	21 55	0s40	23 23	0 1	10 14	3 11	7 35	1 6	15 26	0 49	23 22	0 30	3 37	0 45	20 18	0 31	15 4	17 2	21 27	21 18	21 42			n.a.
T 17	23 29	21 52	1 43	23 5	0n16	10 36	3 10	7 49	1 6	15 29	0 49	23 21	0 30	3 37	0 45	20 17	0 31	15 4	17 1	21 27	21 17	21 42			n.a.
F 18	23 33	20 51	2 43	22 47	0 33	10 57	3 10	8 4	1 6	15 33	0 49	23 20	0 30	3 37	0 45	20 17	0 31	15 4	17 1	21 26	21 16	21 43			n.a.
S 19	23 36	18 53	3 36	22 29	0 52	11 18	3 10	8 19	1 5	15 36	0 49	23 19	0 30	3 36	0 45	20 17	0 31	15 3	17 0	21 26	21 16	21 43			n.a.
S 20	23 38	16 4	4 19	22 11	1 10	11 40	3 9	8 33	1 5	15 40	0 49	23 19	0 30	3 36	0 45	20 16	0 31	15 3	17 0	21 25	21 15	21 43			n.a.
M21	23 40	12 32	4 51	21 53	1 29	12 1	3 8	8 48	1 5	15 43	0 49	23 18	0 30	3 36	0 45	20 16	0 31	15 3	17 0	21 25	21 15	21 43			n.a.
T 22	23 41	8 24	5 10	21 37	1 48	12 22	3 7	9 2	1 4	15 47	0 49	23 17	0 30	3 36	0 45	20 15	0 31	15 2	16 59	21 24	21 14	21 43			n.a.
W23	23 42	3 50	5 15	21 21	2 7	12 43	3 6	9 16	1 4	15 50	0 49	23 16	0 30	3 36	0 45	20 15	0 31	15 2	16 59	21 24	21 13	21 43			n.a.
T 24	23 43	1s 0	5 3	21 7	2 25	13 4	3 5	9 31	1 4	15 53	0 49	23 16	0 30	3 35	0 45	20 14	0 31	15 1	16 59	21 23	21 13	21 43			n.a.
F 25	23 42	5 55	4 35	20 53	2 41	13 25	3 4	9 45	1 3	15 57	0 49	23 15	0 30	3 35	0 45	20 14	0 31	15 1	16 58	21 23	21 12	21 43			n.a.
S 26	23 42	10 40	3 51	20 41	2 56	13 45	3 3	9 59	1 3	16 0	0 49	23 14	0 30	3 35	0 45	20 13	0 31	15 1	16 58	21 24	21 12	21 43			n.a.
S 27	23 41	15 0	2 52	20 31	3 8	14 6	3 1	10 13	1 3	16 3	0 50	23 13	0 30	3 35	0 45	20 13	0 31	15 0	16 57	21 24	21 11	21 43			n.a.
M28	23 40	18 34	1 41	20 22	3 19	14 26	3 0	10 27	1 2	16 7	0 50	23 12	0 30	3 35	0 45	20 12	0 31	15 0	16 57	21 24	21 10	21 43			n.a.
T 29	23 38	21 0	0 21	20 15	3 27	14 46	2 58	10 41	1 2	16 10	0 50	23 12	0 31	3 35	0 45	20 12	0 31	14 59	16 57	21 24	21 10	21 43			n.a.
W30	23 35	21 59	1n 1	20 10	3 33	15 6	2 56	10 55	1 1	16 13	0 50	23 11	0 31	3 35	0 45	20 11	0 31	14 59	16 56	21 24	21 9	21 44			n.a.
T 31	23s32	21s23	2n19	20s 6	3n36	15s26	2n54	11s 9	1n 1	16s16	0n50	23s10	0s31	3n35	0n45	20s11	0s31	14s59	16s56	21s24	21s 9	21n44			n.a.

Julian Day Number = 1674274.5, Delta T = 03h18m53s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'55, Lahiri = - 5°43'54 Julian Calendar 1 Dec. 130 BCE == Greg. Calendar 28 Nov. 130 BCE

The year -129 astronomical counting style corresponds to year 130 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

JANUARY 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 26 42	7♑42'32	16♑31	27°R44	22♏11	2♏ 3	17♏ 2	16♑46	22°R47	3♒ 8	1♈14	5°R 5	3♐43	11♊35	n.a.	F 1
S 2	6 30 39	8°43'30	1♒23	26♐48	23°18	2°41	17°13	16°53	22♍47	3°10	1°14	5♐ 0	3°40	11°42	n.a.	S 2
S 3	6 34 35	9°44'27	15°55	26° 0	24°26	3°19	17°24	17° 0	22°47	3°12	1°15	4°54	3°37	11°48	n.a.	S 3
M 4	6 38 32	10°45'23	0♓ 0	25°21	25°34	3°57	17°34	17° 8	22°47	3°14	1°15	4°49	3°33	11°55	n.a.	M 4
T 5	6 42 29	11°46'17	13°37	24°49	26°42	4°35	17°45	17°15	22°46	3°16	1°15	4°44	3°30	12° 1	n.a.	T 5
W 6	6 46 25	12°47'10	26°46	24°27	27°50	5°13	17°55	17°22	22°46	3°18	1°16	4°41	3°27	12° 8	n.a.	W 6
T 7	6 50 22	13°48'00	9♈30	24°12	28°58	5°51	18° 5	17°29	22°46	3°20	1°16	4°D40	3°24	12°15	n.a.	T 7
F 8	6 54 18	14°48'50	21°52	24°D 6	0♐ 6	6°29	18°15	17°36	22°45	3°23	1°17	4°40	3°21	12°21	n.a.	F 8
S 9	6 58 15	15°49'37	3♉57	24° 7	1°15	7° 7	18°26	17°44	22°45	3°25	1°17	4°41	3°17	12°28	n.a.	S 9
S 10	7 2 11	16°50'24	15°52	24°16	2°24	7°45	18°36	17°51	22°44	3°27	1°18	4°43	3°14	12°35	n.a.	S 10
M11	7 6 8	17°51'08	27°40	24°31	3°32	8°23	18°45	17°58	22°44	3°29	1°18	4°44	3°11	12°41	n.a.	M11
T 12	7 10 4	18°51'51	9♊26	24°52	4°41	9° 1	18°55	18° 5	22°43	3°31	1°19	4°R45	3° 8	12°48	n.a.	T 12
W13	7 14 1	19°52'32	21°14	25°19	5°50	9°39	19° 5	18°13	22°43	3°34	1°19	4°43	3° 5	12°55	n.a.	W13
T 14	7 17 58	20°53'11	3♋ 7	25°51	6°59	10°17	19°14	18°20	22°42	3°36	1°20	4°39	3° 2	13° 1	n.a.	T 14
F 15	7 21 54	21°53'49	15° 8	26°27	8° 9	10°55	19°24	18°27	22°41	3°38	1°20	4°33	2°58	13° 8	n.a.	F 15
S 16	7 25 51	22°54'25	27°19	27° 9	9°18	11°33	19°33	18°34	22°40	3°40	1°21	4°25	2°55	13°15	n.a.	S 16
S 17	7 29 47	23°55'00	9♌40	27°54	10°28	12°11	19°42	18°41	22°39	3°43	1°21	4°16	2°52	13°21	n.a.	S 17
M18	7 33 44	24°55'33	22°12	28°43	11°37	12°49	19°51	18°49	22°38	3°45	1°22	4° 6	2°49	13°28	n.a.	M18
T 19	7 37 40	25°56'04	4♍56	29°35	12°47	13°27	20° 0	18°56	22°37	3°47	1°23	3°57	2°46	13°35	n.a.	T 19
W20	7 41 37	26°56'34	17°52	0♑31	13°57	14° 5	20° 9	19° 3	22°36	3°49	1°23	3°49	2°43	13°41	n.a.	W20
T 21	7 45 33	27°57'02	1♎ 1	1°29	15° 7	14°42	20°18	19°10	22°35	3°52	1°24	3°43	2°39	13°48	n.a.	T 21
F 22	7 49 30	28°57'29	14°24	2°31	16°17	15°20	20°27	19°17	22°34	3°54	1°25	3°40	2°36	13°54	n.a.	F 22
S 23	7 53 27	29°57'54	28° 2	3°34	17°27	15°58	20°35	19°24	22°33	3°56	1°26	3°D39	2°33	14° 1	n.a.	S 23
S 24	7 57 23	0♒58'18	11♏55	4°40	18°37	16°36	20°44	19°32	22°32	3°58	1°26	3°39	2°30	14° 8	n.a.	S 24
M25	8 1 20	1°58'41	26° 5	5°48	19°47	17°13	20°52	19°39	22°31	4° 1	1°27	3°R40	2°27	14°14	n.a.	M25
T 26	8 5 16	2°59'02	10♐30	6°59	20°58	17°51	21° 0	19°46	22°29	4° 3	1°28	3°40	2°23	14°21	n.a.	T 26
W27	8 9 13	3°59'22	25° 8	8°11	22° 8	18°29	21° 8	19°53	22°28	4° 5	1°29	3°38	2°20	14°28	n.a.	W27
T 28	8 13 9	4°59'39	9♑55	9°25	23°18	19° 6	21°16	20° 0	22°26	4° 8	1°29	3°34	2°17	14°34	n.a.	T 28
F 29	8 17 6	5°59'56	24°42	10°40	24°29	19°44	21°23	20° 7	22°25	4°10	1°30	3°27	2°14	14°41	n.a.	F 29
S 30	8 21 2	7° 0'10	9♒23	11°58	25°40	20°22	21°31	20°14	22°23	4°12	1°31	3°18	2°11	14°48	n.a.	S 30
S 31	8 24 59	8♒ 0'22	23♒49	13♑17	26♐50	20♏59	21♏38	20♑21	22♍22	4♒14	1♈32	3♐ 7	2♐ 8	14♊54	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s29	19s15	3n27	20s 4	3n37	15s45	2n52	11s22	1n 0	16s19	0n50	23s 9	0s31	3n35	0n45	20s10	0s31	14s58	16s56	21s23	21s 8	21n44		n.a.
S 2	23 25	15 51	4 20	20 4	3 36	16 4	2 50	11 36	1 0	16 22	0 50	23 8	0 31	3 35	0 45	20 10	0 31	14 58	16 55	21 22	21 7	21 44		n.a.
S 3	23 21	11 33	4 55	20 6	3 33	16 23	2 48	11 50	1 0	16 25	0 50	23 7	0 31	3 35	0 45	20 10	0 31	14 57	16 55	21 21	21 7	21 44		n.a.
M 4	23 16	6 45	5 11	20 10	3 28	16 41	2 45	12 3	0 59	16 28	0 50	23 7	0 31	3 35	0 45	20 9	0 31	14 57	16 55	21 20	21 6	21 44		n.a.
T 5	23 11	1 46	5 8	20 15	3 22	17 0	2 43	12 16	0 59	16 31	0 50	23 6	0 31	3 35	0 45	20 9	0 31	14 56	16 54	21 19	21 6	21 44		n.a.
W 6	23 5	3n 7	4 49	20 21	3 14	17 17	2 41	12 30	0 58	16 34	0 50	23 5	0 31	3 36	0 45	20 8	0 31	14 56	16 54	21 19	21 5	21 44		n.a.
T 7	22 59	7 43	4 16	20 29	3 6	17 35	2 38	12 43	0 58	16 37	0 50	23 4	0 31	3 36	0 45	20 8	0 31	14 55	16 53	21 19	21 4	21 44		n.a.
F 8	22 53	11 53	3 32	20 38	2 57	17 52	2 35	12 56	0 57	16 40	0 50	23 3	0 31	3 36	0 45	20 7	0 31	14 55	16 53	21 19	21 4	21 44		n.a.
S 9	22 46	15 29	2 40	20 48	2 47	18 9	2 33	13 9	0 57	16 43	0 50	23 2	0 31	3 36	0 45	20 7	0 31	14 54	16 53	21 19	21 3	21 44		n.a.
S 10	22 38	18 23	1 41	20 59	2 36	18 26	2 30	13 22	0 56	16 45	0 50	23 1	0 31	3 36	0 46	20 6	0 31	14 54	16 52	21 19	21 2	21 44		n.a.
M11	22 30	20 29	0 38	21 10	2 26	18 42	2 27	13 35	0 56	16 48	0 50	23 0	0 31	3 37	0 46	20 5	0 31	14 53	16 52	21 19	21 2	21 44		n.a.
T 12	22 22	21 42	0s25	21 22	2 15	18 57	2 24	13 48	0 55	16 51	0 50	23 0	0 32	3 37	0 46	20 5	0 31	14 53	16 52	21 20	21 1	21 44		n.a.
W13	22 13	21 57	1 28	21 34	2 4	19 12	2 21	14 0	0 55	16 53	0 50	22 59	0 32	3 37	0 46	20 4	0 31	14 52	16 51	21 19	21 1	21 44		n.a.
T 14	22 4	21 13	2 28	21 46	1 53	19 27	2 18	14 13	0 54	16 56	0 50	22 58	0 32	3 38	0 46	20 4	0 31	14 52	16 51	21 18	21 0	21 44		n.a.
F 15	21 54	19 31	3 21	21 58	1 41	19 42	2 15	14 25	0 54	16 58	0 50	22 57	0 32	3 38	0 46	20 3	0 31	14 51	16 51	21 17	20 59	21 44		n.a.
S 16	21 44	16 55	4 5	22 10	1 30	19 55	2 12	14 38	0 53	17 1	0 50	22 56	0 32	3 38	0 46	20 3	0 31	14 51	16 50	21 16	20 59	21 44		n.a.
S 17	21 34	13 33	4 39	22 22	1 19	20 9	2 9	14 50	0 52	17 3	0 50	22 55	0 32	3 39	0 46	20 2	0 31	14 50	16 50	21 14	20 58	21 44		n.a.
M18	21 23	9 32	5 0	22 34	1 9	20 22	2 5	15 2	0 52	17 6	0 50	22 54	0 32	3 39	0 46	20 2	0 31	14 50	16 50	21 12	20 57	21 44		n.a.
T 19	21 12	5 3	5 6	22 45	0 58	20 34	2 2	15 14	0 51	17 8	0 50	22 53	0 32	3 40	0 46	20 1	0 31	14 49	16 49	21 11	20 57	21 44		n.a.
W20	21 0	0 17	4 57	22 55	0 47	20 46	1 59	15 26	0 51	17 11	0 50	22 52	0 32	3 40	0 46	20 1	0 31	14 48	16 49	21 9	20 56	21 44		n.a.
T 21	20 48	4s34	4 33	23 5	0 37	20 57	1 55	15 38	0 50	17 13	0 50	22 51	0 32	3 40	0 46	20 0	0 31	14 48	16 49	21 8	20 56	21 43		n.a.
F 22	20 36	9 18	3 53	23 14	0 27	21 8	1 52	15 50	0 49	17 15	0 50	22 50	0 32	3 41	0 46	20 0	0 31	14 47	16 48	21 7	20 55	21 43		n.a.
S 23	20 23	13 40	2 59	23 23	0 17	21 19	1 48	16 2	0 49	17 17	0 50	22 49	0 32	3 41	0 46	19 59	0 31	14 47	16 48	21 7	20 54	21 43		n.a.
S 24	20 10	17 23	1 54	23 30	0 8	21 28	1 45	16 13	0 48	17 20	0 50	22 48	0 32	3 42	0 46	19 59	0 31	14 46	16 48	21 7	20 54	21 43		n.a.
M25	19 57	20 9	0 41	23 37	0s 2	21 38	1 41	16 25	0 47	17 22	0 50	22 47	0 33	3 42	0 46	19 58	0 31	14 45	16 47	21 7	20 53	21 43		n.a.
T 26	19 43	21 40	0n37	23 42	0 11	21 46	1 38	16 36	0 47	17 24	0 51	22 46	0 33	3 43	0 46	19 58	0 31	14 45	16 47	21 7	20 52	21 43		n.a.
W27	19 28	21 45	1 52	23 47	0 20	21 54	1 34	16 47	0 46	17 26	0 51	22 45	0 33	3 44	0 46	19 57	0 31	14 44	16 47	21 7	20 52	21 43		n.a.
T 28	19 14	20 20	3 1	23 50	0 28	22 2	1 31	16 58	0 45	17 28	0 51	22 44	0 33	3 44	0 46	19 56	0 31	14 44	16 46	21 6	20 51	21 43		n.a.
F 29	18 59	17 32	3 58	23 53	0 36	22 9	1 27	17 9	0 45	17 30	0 51	22 43	0 33	3 45	0 46	19 56	0 31	14 43	16 46	21 5	20 51	21 43		n.a.
S 30	18 44	13 39	4 38	23 54	0 44	22 15	1 23	17 20	0 44	17 32	0 51	22 43	0 33	3 45	0 46	19 55	0 31	14 42	16 46	21 3	20 50	21 43		n.a.
S 31	18s28	9s 1	5n 0	23s54	0s52	22s21	1n20	17s31	0n43	17s34	0n51	22s42	0s33	3n46	0n46	19s55	0s31	14s42	16s46	21s 1	20s49	21n43		n.a.

Julian Day Number = 1674305.5, Delta T = 03h18m52s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'50, Lahiri = - 5°43'50 Julian Calendar 1 Jan. 129 BCE == Greg. Calendar 29 Dec. 130 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

FEBRUARY 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 28 56	9♒ 0'32	7♓54	14♑37	28♐ 1	21♏37	21♏46	20♑28	22°R20	4♒17	1♈33	2°R56	2♐ 4	15♊ 1	n.a.	M 1
T 2	8 32 52	10° 0'40	21°34	15°59	29°12	22°14	21°53	20°35	22♍19	4°19	1°34	2♐47	2° 1	15° 8	n.a.	T 2
W 3	8 36 49	11° 0'46	4♈47	17°22	0♑23	22°51	22° 0	20°42	22°17	4°21	1°35	2°39	1°58	15°14	n.a.	W 3
T 4	8 40 45	12° 0'50	17°35	18°46	1°34	23°29	22° 7	20°49	22°15	4°23	1°36	2°34	1°55	15°21	n.a.	T 4
F 5	8 44 42	13° 0'51	0♉ 0	20°12	2°45	24° 6	22°13	20°56	22°13	4°26	1°37	2°31	1°52	15°28	n.a.	F 5
S 6	8 48 38	14° 0'50	12° 8	21°39	3°56	24°43	22°20	21° 3	22°12	4°28	1°38	2°D30	1°49	15°34	n.a.	S 6
S 7	8 52 35	15° 0'47	24° 4	23° 8	5° 7	25°21	22°26	21°10	22°10	4°30	1°39	2°31	1°45	15°41	n.a.	S 7
M 8	8 56 31	16° 0'42	5♊52	24°37	6°18	25°58	22°33	21°16	22° 8	4°32	1°40	2°R31	1°42	15°48	n.a.	M 8
T 9	9 0 28	17° 0'34	17°39	26° 8	7°29	26°35	22°39	21°23	22° 6	4°35	1°41	2°30	1°39	15°54	n.a.	T 9
W10	9 4 24	18° 0'24	29°30	27°40	8°40	27°12	22°45	21°30	22° 4	4°37	1°42	2°27	1°36	16° 1	n.a.	W10
T 11	9 8 21	19° 0'12	11♋28	29°14	9°52	27°49	22°50	21°37	22° 2	4°39	1°43	2°21	1°33	16° 7	n.a.	T 11
F 12	9 12 18	19°59'57	23°37	0♒48	11° 3	28°26	22°56	21°43	22° 0	4°41	1°44	2°12	1°29	16°14	n.a.	F 12
S 13	9 16 14	20°59'41	6♌ 0	2°24	12°14	29° 3	23° 1	21°50	21°58	4°44	1°45	2° 1	1°26	16°21	n.a.	S 13
S 14	9 20 11	21°59'22	18°37	4° 1	13°26	29°40	23° 7	21°57	21°56	4°46	1°46	1°49	1°23	16°27	n.a.	S 14
M15	9 24 7	22°59'01	1♍29	5°39	14°37	0♐17	23°12	22° 3	21°54	4°48	1°47	1°35	1°20	16°34	n.a.	M15
T 16	9 28 4	23°58'38	14°34	7°18	15°49	0°54	23°17	22°10	21°52	4°50	1°48	1°22	1°17	16°41	n.a.	T 16
W17	9 32 0	24°58'12	27°51	8°59	17° 0	1°31	23°22	22°16	21°50	4°52	1°49	1°11	1°14	16°47	n.a.	W17
T 18	9 35 57	25°57'45	11♎20	10°40	18°12	2° 7	23°26	22°23	21°47	4°54	1°51	1° 3	1°10	16°54	n.a.	T 18
F 19	9 39 53	26°57'16	24°57	12°23	19°24	2°44	23°31	22°29	21°45	4°57	1°52	0°58	1° 7	17° 1	n.a.	F 19
S 20	9 43 50	27°56'45	8♏43	14° 8	20°35	3°21	23°35	22°35	21°43	4°59	1°53	0°55	1° 4	17° 7	n.a.	S 20
S 21	9 47 47	28°56'13	22°38	15°53	21°47	3°57	23°39	22°42	21°41	5° 1	1°54	0°54	1° 1	17°14	n.a.	S 21
M22	9 51 43	29°55'38	6♐41	17°40	22°59	4°34	23°43	22°48	21°38	5° 3	1°55	0°54	0°58	17°21	n.a.	M22
T 23	9 55 40	0♓55'02	20°51	19°28	24°10	5°10	23°47	22°54	21°36	5° 5	1°57	0°53	0°54	17°27	n.a.	T 23
W24	9 59 36	1°54'24	5♑ 8	21°18	25°22	5°47	23°51	23° 0	21°34	5° 7	1°58	0°51	0°51	17°34	n.a.	W24
T 25	10 3 33	2°53'44	19°29	23° 8	26°34	6°23	23°54	23° 7	21°31	5° 9	1°59	0°46	0°48	17°41	n.a.	T 25
F 26	10 7 29	3°53'02	3♒50	25° 1	27°46	7° 0	23°57	23°13	21°29	5°11	2° 0	0°37	0°45	17°47	n.a.	F 26
S 27	10 11 26	4°52'18	18° 6	26°54	28°58	7°36	24° 0	23°19	21°26	5°13	2° 1	0°27	0°42	17°54	n.a.	S 27
S 28	10 15 22	5°51'31	2♓11	28°49	0♒10	8°12	24° 3	23°25	21°24	5°15	2° 3	0°15	0°39	18° 1	n.a.	S 28
M29	10 19 19	6♓50'43	16♓ 1	0♓45	1♒22	8♐48	24♏ 6	23♑31	21♍22	5♒17	2♈ 4	0♐ 2	0♐35	18♊ 7	n.a.	M29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s12	4s 2	5n 2	23s53	0s59	22s26	1n16	17s41	0n42	17s36	0n51	22s41	0s33	3n47	0n46	19s54	0s31	14s41	16s45	20s59	20s49	21n43		n.a.
T 2	17 56	1n 1	4 48	23 50	1 6	22 30	1 12	17 52	0 42	17 37	0 51	22 40	0 33	3 47	0 46	19 54	0 31	14 41	16 45	20 57	20 48	21 42		n.a.
W 3	17 40	5 51	4 18	23 46	1 13	22 34	1 9	18 2	0 41	17 39	0 51	22 39	0 33	3 48	0 46	19 53	0 31	14 40	16 45	20 56	20 47	21 42		n.a.
T 4	17 23	10 17	3 35	23 41	1 19	22 37	1 5	18 13	0 40	17 41	0 51	22 38	0 33	3 49	0 46	19 53	0 31	14 39	16 44	20 55	20 47	21 42		n.a.
F 5	17 6	14 9	2 44	23 34	1 25	22 39	1 1	18 23	0 39	17 43	0 51	22 37	0 34	3 50	0 46	19 52	0 31	14 39	16 44	20 54	20 46	21 42		n.a.
S 6	16 49	17 20	1 46	23 26	1 31	22 41	0 58	18 33	0 38	17 44	0 51	22 36	0 34	3 50	0 46	19 52	0 31	14 38	16 44	20 54	20 45	21 42		n.a.
S 7	16 31	19 43	0 45	23 17	1 36	22 43	0 54	18 43	0 37	17 46	0 51	22 35	0 34	3 51	0 46	19 51	0 31	14 37	16 44	20 54	20 45	21 42		n.a.
M 8	16 13	21 14	0s18	23 6	1 41	22 43	0 50	18 52	0 37	17 47	0 51	22 34	0 34	3 52	0 46	19 51	0 31	14 37	16 43	20 54	20 44	21 42		n.a.
T 9	15 55	21 48	1 20	22 53	1 46	22 43	0 47	19 2	0 36	17 49	0 51	22 33	0 34	3 53	0 46	19 50	0 31	14 36	16 43	20 54	20 43	21 41		n.a.
W10	15 36	21 24	2 18	22 39	1 50	22 42	0 43	19 11	0 35	17 50	0 51	22 32	0 34	3 53	0 46	19 50	0 31	14 35	16 43	20 53	20 43	21 41		n.a.
T 11	15 18	20 2	3 11	22 24	1 54	22 41	0 39	19 21	0 34	17 52	0 51	22 31	0 34	3 54	0 46	19 49	0 31	14 35	16 43	20 52	20 42	21 41		n.a.
F 12	14 59	17 45	3 56	22 7	1 57	22 39	0 36	19 30	0 33	17 53	0 51	22 30	0 34	3 55	0 47	19 49	0 31	14 34	16 42	20 50	20 42	21 41		n.a.
S 13	14 40	14 37	4 31	21 48	2 0	22 36	0 32	19 39	0 32	17 54	0 51	22 29	0 34	3 56	0 47	19 48	0 31	14 34	16 42	20 48	20 41	21 41		n.a.
S 14	14 20	10 47	4 53	21 27	2 3	22 33	0 28	19 48	0 31	17 56	0 52	22 28	0 34	3 57	0 47	19 47	0 31	14 33	16 42	20 45	20 40	21 41		n.a.
M15	14 1	6 24	5 0	21 5	2 5	22 29	0 25	19 57	0 30	17 57	0 52	22 27	0 35	3 58	0 47	19 47	0 31	14 32	16 42	20 43	20 40	21 40		n.a.
T 16	13 41	1 39	4 53	20 42	2 7	22 24	0 21	20 6	0 29	17 58	0 52	22 26	0 35	3 59	0 47	19 46	0 31	14 32	16 41	20 40	20 39	21 40		n.a.
W17	13 21	3s15	4 29	20 16	2 8	22 19	0 18	20 14	0 28	17 59	0 52	22 25	0 35	3 59	0 47	19 46	0 31	14 31	16 41	20 38	20 38	21 40		n.a.
T 18	13 0	8 3	3 50	19 50	2 9	22 13	0 14	20 23	0 27	18 0	0 52	22 24	0 35	4 0	0 47	19 45	0 31	14 30	16 41	20 36	20 38	21 40		n.a.
F 19	12 40	12 31	2 58	19 21	2 10	22 7	0 11	20 31	0 26	18 2	0 52	22 23	0 35	4 1	0 47	19 45	0 31	14 30	16 41	20 35	20 37	21 40		n.a.
S 20	12 19	16 22	1 54	18 50	2 10	21 59	0 7	20 39	0 25	18 3	0 52	22 22	0 35	4 2	0 47	19 44	0 31	14 29	16 41	20 34	20 36	21 40		n.a.
S 21	11 58	19 20	0 44	18 18	2 9	21 52	0 4	20 47	0 24	18 4	0 52	22 21	0 35	4 3	0 47	19 44	0 31	14 28	16 40	20 34	20 36	21 39		n.a.
M22	11 37	21 10	0n31	17 45	2 8	21 43	0 1	20 55	0 23	18 4	0 52	22 20	0 35	4 4	0 47	19 43	0 31	14 28	16 40	20 34	20 35	21 39		n.a.
T 23	11 16	21 40	1 43	17 9	2 7	21 34	0s 3	21 3	0 22	18 5	0 52	22 19	0 35	4 5	0 47	19 43	0 31	14 27	16 40	20 34	20 34	21 39		n.a.
W24	10 55	20 46	2 50	16 32	2 5	21 24	0 6	21 11	0 21	18 6	0 52	22 18	0 35	4 6	0 47	19 42	0 31	14 26	16 40	20 33	20 34	21 39		n.a.
T 25	10 33	18 32	3 47	15 53	2 2	21 14	0 9	21 18	0 19	18 7	0 52	22 17	0 36	4 7	0 47	19 42	0 31	14 26	16 40	20 32	20 33	21 38		n.a.
F 26	10 12	15 10	4 29	15 12	1 59	21 3	0 13	21 25	0 18	18 8	0 52	22 16	0 36	4 8	0 47	19 41	0 31	14 25	16 39	20 31	20 32	21 38		n.a.
S 27	9 50	10 55	4 54	14 30	1 56	20 51	0 16	21 33	0 17	18 8	0 52	22 16	0 36	4 9	0 47	19 41	0 31	14 24	16 39	20 28	20 32	21 38		n.a.
S 28	9 28	6 9	5 0	13 46	1 52	20 39	0 19	21 40	0 16	18 9	0 52	22 15	0 36	4 10	0 47	19 40	0 31	14 24	16 39	20 26	20 31	21 38		n.a.
M29	9s 6	1s 8	4n49	13s 0	1s47	20s26	0s22	21s47	0n15	18s10	0n52	22s14	0s36	4n11	0n47	19s40	0s31	14s23	16s39	20s23	20s30	21n37		n.a.

Julian Day Number = 1674336.5, Delta T = 03h18m51s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'46, Lahiri = - 5°43'46 Julian Calendar 1 Feb. 129 BCE == Greg. Calendar 29 Jan. 129 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

MARCH 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 23 16	7♓49'53	29♓31	2♓42	2♒34	9♐24	24♏ 9	23♉36	21°R19	5♒19	2♈ 5	29°R51	0♐32	18♊14	n.a.	T 1
W 2	10 27 12	8°49'00	12♈39	4°41	3°46	10° 0	24°11	23°42	21♍17	5°21	2° 7	29♏41	0°29	18°20	n.a.	W 2
T 3	10 31 9	9°48'05	25°24	6°40	4°58	10°36	24°13	23°48	21°14	5°23	2° 8	29°35	0°26	18°27	n.a.	T 3
F 4	10 35 5	10°47'07	7♉50	8°41	6°10	11°12	24°15	23°54	21°12	5°25	2° 9	29°31	0°23	18°34	n.a.	F 4
S 5	10 39 2	11°46'08	19°59	10°43	7°22	11°47	24°17	23°59	21° 9	5°27	2°10	29°29	0°20	18°40	n.a.	S 5
S 6	10 42 58	12°45'06	1♊56	12°46	8°34	12°23	24°19	24° 5	21° 7	5°29	2°12	29°D29	0°16	18°47	n.a.	S 6
M 7	10 46 55	13°44'01	13°46	14°50	9°46	12°59	24°20	24°11	21° 4	5°31	2°13	29°R29	0°13	18°54	n.a.	M 7
T 8	10 50 51	14°42'55	25°34	16°54	10°58	13°34	24°21	24°16	21° 1	5°33	2°14	29°28	0°10	19° 0	n.a.	T 8
W 9	10 54 48	15°41'45	7♋27	18°59	12°10	14° 9	24°22	24°21	20°59	5°35	2°16	29°26	0° 7	19° 7	n.a.	W 9
T 10	10 58 44	16°40'34	19°28	21° 4	13°22	14°45	24°23	24°27	20°56	5°37	2°17	29°22	0° 4	19°14	n.a.	T 10
F 11	11 2 41	17°39'20	1♌43	23°10	14°35	15°20	24°24	24°32	20°54	5°38	2°18	29°15	0° 0	19°20	n.a.	F 11
S 12	11 6 38	18°38'04	14°14	25°15	15°47	15°55	24°24	24°37	20°51	5°40	2°20	29° 6	29♏57	19°27	n.a.	S 12
S 13	11 10 34	19°36'45	27° 4	27°19	16°59	16°30	24°25	24°42	20°49	5°42	2°21	28°55	29°54	19°34	n.a.	S 13
M14	11 14 31	20°35'25	10♍13	29°23	18°11	17° 5	24°R25	24°48	20°46	5°44	2°22	28°43	29°51	19°40	n.a.	M14
T 15	11 18 27	21°34'02	23°39	1♈26	19°23	17°40	24°25	24°53	20°43	5°45	2°24	28°32	29°48	19°47	n.a.	T 15
W16	11 22 24	22°32'37	7♎21	3°28	20°36	18°14	24°25	24°58	20°41	5°47	2°25	28°22	29°45	19°54	n.a.	W16
T 17	11 26 20	23°31'11	21°14	5°27	21°48	18°49	24°24	25° 2	20°38	5°49	2°27	28°15	29°41	20° 0	n.a.	T 17
F 18	11 30 17	24°29'42	5♏16	7°25	23° 0	19°24	24°24	25° 7	20°36	5°51	2°28	28°10	29°38	20° 7	n.a.	F 18
S 19	11 34 13	25°28'12	19°22	9°20	24°13	19°58	24°23	25°12	20°33	5°52	2°29	28° 8	29°35	20°14	n.a.	S 19
S 20	11 38 10	26°26'40	3♐31	11°12	25°25	20°32	24°22	25°17	20°31	5°54	2°31	28°D 8	29°32	20°20	n.a.	S 20
M21	11 42 6	27°25'06	17°40	13° 1	26°37	21° 7	24°21	25°21	20°28	5°55	2°32	28° 9	29°29	20°27	n.a.	M21
T 22	11 46 3	28°23'31	1♑48	14°47	27°50	21°41	24°19	25°26	20°26	5°57	2°33	28°R 9	29°26	20°34	n.a.	T 22
W23	11 50 0	29°21'54	15°54	16°30	29° 2	22°15	24°18	25°30	20°23	5°58	2°35	28° 8	29°22	20°40	n.a.	W23
T 24	11 53 56	0♈20'15	29°57	18° 8	0♓15	22°48	24°16	25°35	20°20	6° 0	2°36	28° 5	29°19	20°47	n.a.	T 24
F 25	11 57 53	1°18'35	13♒54	19°43	1°27	23°22	24°14	25°39	20°18	6° 1	2°38	27°59	29°16	20°54	n.a.	F 25
S 26	12 1 49	2°16'53	27°43	21°13	2°39	23°56	24°12	25°43	20°15	6° 3	2°39	27°51	29°13	21° 0	n.a.	S 26
S 27	12 5 46	3°15'09	11♓22	22°40	3°52	24°29	24°10	25°47	20°13	6° 4	2°40	27°42	29°10	21° 7	n.a.	S 27
M28	12 9 42	4°13'23	24°47	24° 2	5° 4	25° 2	24° 7	25°52	20°10	6° 6	2°42	27°33	29° 6	21°13	n.a.	M28
T 29	12 13 39	5°11'36	7♈57	25°19	6°17	25°35	24° 5	25°56	20° 8	6° 7	2°43	27°24	29° 3	21°20	n.a.	T 29
W30	12 17 35	6° 9'47	20°50	26°32	7°29	26° 8	24° 2	25°59	20° 6	6° 9	2°45	27°17	29° 0	21°27	n.a.	W30
T 31	12 21 32	7♈ 7'55	3♉26	27♈40	8♓42	26♐41	23♏59	26♉ 3	20♍ 3	6♒10	2♈46	27♏12	28♏57	21♊33	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	8s44	3n48	4n22	12s13	1s42	20s13	0s25	21s53	0n13	18s10	0n53	22s13	0s36	4n12	0n47	19s40	0s31	14s22	16s39	20s21	20s30	21n37			n.a.
W 2	8 21	8 26	3 41	11 24	1 37	19 59	0 28	22 0	0 12	18 11	0 53	22 12	0 36	4 13	0 47	19 39	0 31	14 22	16 39	20 19	20 29	21 37			n.a.
T 3	7 59	12 34	2 50	10 33	1 30	19 45	0 31	22 7	0 11	18 11	0 53	22 11	0 36	4 14	0 47	19 39	0 31	14 21	16 38	20 17	20 28	21 37			n.a.
F 4	7 36	16 3	1 52	9 42	1 24	19 29	0 34	22 13	0 9	18 12	0 53	22 10	0 36	4 15	0 47	19 38	0 31	14 20	16 38	20 16	20 28	21 36			n.a.
S 5	7 14	18 44	0 50	8 48	1 16	19 14	0 37	22 19	0 8	18 12	0 53	22 9	0 37	4 16	0 47	19 38	0 31	14 20	16 38	20 16	20 27	21 36			n.a.
S 6	6 51	20 34	0s13	7 54	1 8	18 58	0 40	22 25	0 7	18 13	0 53	22 8	0 37	4 17	0 47	19 37	0 31	14 19	16 38	20 16	20 26	21 36			n.a.
M 7	6 28	21 28	1 15	6 58	1 0	18 41	0 42	22 31	0 5	18 13	0 53	22 7	0 37	4 18	0 47	19 37	0 32	14 19	16 38	20 16	20 26	21 36			n.a.
T 8	6 5	21 24	2 14	6 1	0 51	18 24	0 45	22 37	0 4	18 13	0 53	22 7	0 37	4 19	0 47	19 36	0 32	14 18	16 38	20 16	20 25	21 35			n.a.
W 9	5 42	20 23	3 7	5 3	0 42	18 6	0 48	22 43	0 3	18 13	0 53	22 6	0 37	4 20	0 47	19 36	0 32	14 17	16 38	20 15	20 24	21 35			n.a.
T 10	5 19	18 26	3 53	4 4	0 32	17 48	0 50	22 48	0 1	18 13	0 53	22 5	0 37	4 21	0 47	19 35	0 32	14 17	16 38	20 14	20 24	21 35			n.a.
F 11	4 56	15 38	4 29	3 5	0 22	17 29	0 53	22 54	0s 0	18 14	0 53	22 4	0 37	4 22	0 47	19 35	0 32	14 16	16 37	20 13	20 23	21 34			n.a.
S 12	4 33	12 5	4 52	2 5	0 11	17 10	0 55	22 59	0 2	18 14	0 53	22 3	0 37	4 23	0 47	19 35	0 32	14 15	16 37	20 11	20 22	21 34			n.a.
S 13	4 9	7 54	5 2	1 5	0 0	16 50	0 58	23 4	0 3	18 14	0 53	22 2	0 38	4 24	0 47	19 34	0 32	14 15	16 37	20 9	20 21	21 34			n.a.
M14	3 46	3 15	4 56	0 5	0n11	16 30	1 0	23 9	0 5	18 14	0 53	22 2	0 38	4 25	0 47	19 34	0 32	14 14	16 37	20 6	20 21	21 34			n.a.
T 15	3 23	1s39	4 34	0n55	0 22	16 9	1 2	23 14	0 7	18 14	0 53	22 1	0 38	4 26	0 47	19 33	0 32	14 14	16 37	20 3	20 20	21 33			n.a.
W16	2 59	6 33	3 56	1 54	0 33	15 48	1 4	23 19	0 8	18 13	0 53	22 0	0 38	4 27	0 47	19 33	0 32	14 13	16 37	20 1	20 19	21 33			n.a.
T 17	2 36	11 12	3 3	2 52	0 45	15 27	1 6	23 24	0 10	18 13	0 53	21 59	0 38	4 28	0 47	19 33	0 32	14 12	16 37	20 0	20 19	21 33			n.a.
F 18	2 13	15 17	1 59	3 50	0 56	15 5	1 8	23 28	0 11	18 13	0 53	21 59	0 38	4 29	0 47	19 32	0 32	14 12	16 37	19 59	20 18	21 32			n.a.
S 19	1 49	18 31	0 47	4 46	1 7	14 42	1 10	23 33	0 13	18 13	0 53	21 58	0 38	4 30	0 47	19 32	0 32	14 11	16 37	19 58	20 17	21 32			n.a.
S 20	1 26	20 37	0n29	5 41	1 18	14 20	1 12	23 37	0 15	18 13	0 54	21 57	0 38	4 31	0 47	19 31	0 32	14 11	16 37	19 58	20 17	21 32			n.a.
M21	1 2	21 26	1 43	6 34	1 29	13 57	1 14	23 41	0 16	18 12	0 54	21 56	0 39	4 32	0 47	19 31	0 32	14 10	16 37	19 58	20 16	21 31			n.a.
T 22	0 39	20 52	2 50	7 25	1 39	13 33	1 16	23 45	0 18	18 12	0 54	21 56	0 39	4 33	0 47	19 31	0 32	14 9	16 37	19 58	20 15	21 31			n.a.
W23	0 15	19 0	3 47	8 14	1 49	13 9	1 18	23 49	0 20	18 11	0 54	21 55	0 39	4 34	0 47	19 30	0 32	14 9	16 37	19 58	20 15	21 31			n.a.
T 24	0n 8	16 0	4 30	9 1	1 58	12 45	1 19	23 52	0 22	18 11	0 54	21 54	0 39	4 35	0 47	19 30	0 32	14 8	16 37	19 57	20 14	21 30			n.a.
F 25	0 32	12 7	4 56	9 45	2 7	12 20	1 21	23 56	0 24	18 11	0 54	21 54	0 39	4 36	0 47	19 30	0 32	14 8	16 37	19 56	20 13	21 30			n.a.
S 26	0 55	7 37	5 5	10 27	2 15	11 55	1 22	24 0	0 26	18 10	0 54	21 53	0 39	4 37	0 47	19 29	0 32	14 7	16 37	19 54	20 13	21 29			n.a.
S 27	1 18	2 49	4 57	11 7	2 23	11 30	1 24	24 3	0 27	18 9	0 54	21 52	0 39	4 38	0 47	19 29	0 32	14 6	16 37	19 52	20 12	21 29			n.a.
M28	1 42	2n 4	4 32	11 44	2 29	11 5	1 25	24 6	0 29	18 9	0 54	21 52	0 40	4 39	0 47	19 29	0 32	14 6	16 37	19 50	20 11	21 29			n.a.
T 29	2 5	6 45	3 53	12 18	2 35	10 39	1 26	24 9	0 31	18 8	0 54	21 51	0 40	4 40	0 47	19 28	0 32	14 5	16 37	19 48	20 10	21 28			n.a.
W30	2 28	11 2	3 3	12 50	2 40	10 13	1 28	24 12	0 33	18 7	0 54	21 50	0 40	4 41	0 47	19 28	0 32	14 5	16 37	19 47	20 10	21 28			n.a.
T 31	2n52	14n45	2n 4	13n19	2n45	9s46	1s29	24s15	0s35	18s 7	0n54	21s50	0s40	4n42	0n47	19s28	0s32	14s 4	16s37	19s45	20s 9	21n28			n.a.

Julian Day Number = 1674365.5, Delta T = 03h18m51s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'42, Lahiri = - 5°43'42 Julian Calendar 1 March 129 BCE == Greg. Calendar 27 Feb. 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

APRIL 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 25 29	8♈ 6'02	15♉45	28♈43	9♓54	27♐14	23°R56	26♑ 7	20°R 1	6♒11	2♈47	27°R10	28♏54	21♊40	n.a.	F 1
S 2	12 29 25	9° 4'07	27°52	29°41	11° 7	27°46	23♏52	26°11	19♍58	6°12	2°49	27°D 9	28°51	21°47	n.a.	S 2
S 3	12 33 22	10° 2'11	9♊48	0♉35	12°19	28°19	23°49	26°14	19°56	6°14	2°50	27♏10	28°47	21°53	n.a.	S 3
M 4	12 37 18	11° 0'12	21°38	1°23	13°32	28°51	23°45	26°18	19°54	6°15	2°51	27°11	28°44	22° 0	n.a.	M 4
T 5	12 41 15	11°58'11	3♋27	2° 7	14°45	29°23	23°41	26°21	19°51	6°16	2°53	27°12	28°41	22° 7	n.a.	T 5
W 6	12 45 11	12°56'08	15°20	2°45	15°57	29°54	23°37	26°25	19°49	6°17	2°54	27°R13	28°38	22°13	n.a.	W 6
T 7	12 49 8	13°54'04	27°22	3°19	17°10	0♑26	23°33	26°28	19°47	6°18	2°56	27°11	28°35	22°20	n.a.	T 7
F 8	12 53 4	14°51'57	9♌39	3°47	18°22	0°58	23°29	26°31	19°44	6°20	2°57	27° 9	28°31	22°27	n.a.	F 8
S 9	12 57 1	15°49'49	22°13	4° 9	19°35	1°29	23°24	26°34	19°42	6°21	2°58	27° 4	28°28	22°33	n.a.	S 9
S 10	13 0 58	16°47'38	5♍ 9	4°27	20°48	2° 0	23°19	26°37	19°40	6°22	3° 0	26°59	28°25	22°40	n.a.	S 10
M11	13 4 54	17°45'26	18°27	4°40	22° 0	2°31	23°15	26°40	19°38	6°23	3° 1	26°52	28°22	22°47	n.a.	M11
T 12	13 8 51	18°43'12	2♎ 8	4°47	23°13	3° 1	23°10	26°43	19°36	6°24	3° 2	26°46	28°19	22°53	n.a.	T 12
W13	13 12 47	19°40'56	16° 9	4°R49	24°25	3°32	23° 4	26°45	19°34	6°25	3° 4	26°41	28°16	23° 0	n.a.	W13
T 14	13 16 44	20°38'39	0♏26	4°47	25°38	4° 2	22°59	26°48	19°31	6°26	3° 5	26°37	28°12	23° 7	n.a.	T 14
F 15	13 20 40	21°36'21	14°53	4°40	26°51	4°32	22°54	26°51	19°29	6°26	3° 6	26°35	28° 9	23°13	n.a.	F 15
S 16	13 24 37	22°34'01	29°25	4°28	28° 3	5° 2	22°48	26°53	19°27	6°27	3° 8	26°D34	28° 6	23°20	n.a.	S 16
S 17	13 28 33	23°31'41	13♐57	4°12	29°16	5°31	22°43	26°55	19°25	6°28	3° 9	26°35	28° 3	23°27	n.a.	S 17
M18	13 32 30	24°29'19	28°23	3°52	0♈29	6° 1	22°37	26°58	19°23	6°29	3°10	26°37	28° 0	23°33	n.a.	M18
T 19	13 36 27	25°26'55	12♑42	3°29	1°42	6°30	22°31	27° 0	19°22	6°30	3°12	26°38	27°57	23°40	n.a.	T 19
W20	13 40 23	26°24'31	26°49	3° 2	2°54	6°58	22°25	27° 2	19°20	6°31	3°13	26°R38	27°53	23°47	n.a.	W20
T 21	13 44 20	27°22'06	10♒44	2°33	4° 7	7°27	22°19	27° 4	19°18	6°31	3°14	26°38	27°50	23°53	n.a.	T 21
F 22	13 48 16	28°19'40	24°26	2° 2	5°20	7°55	22°12	27° 6	19°16	6°32	3°15	26°36	27°47	24° 0	n.a.	F 22
S 23	13 52 13	29°17'12	7♓55	1°29	6°33	8°23	22° 6	27° 8	19°14	6°33	3°17	26°33	27°44	24° 7	n.a.	S 23
S 24	13 56 9	0♉14'44	21°10	0°55	7°45	8°51	21°59	27° 9	19°12	6°33	3°18	26°29	27°41	24°13	n.a.	S 24
M25	14 0 6	1°12'14	4♈11	0°21	8°58	9°18	21°53	27°11	19°11	6°34	3°19	26°25	27°37	24°20	n.a.	M25
T 26	14 4 2	2° 9'44	16°59	29♈47	10°11	9°45	21°46	27°13	19° 9	6°34	3°20	26°21	27°34	24°27	n.a.	T 26
W27	14 7 59	3° 7'12	29°33	29°14	11°24	10°12	21°39	27°14	19° 7	6°35	3°22	26°18	27°31	24°33	n.a.	W27
T 28	14 11 55	4° 4'40	11♉54	28°42	12°37	10°39	21°32	27°15	19° 6	6°35	3°23	26°16	27°28	24°40	n.a.	T 28
F 29	14 15 52	5° 2'06	24° 3	28°12	13°50	11° 5	21°25	27°16	19° 4	6°36	3°24	26°D16	27°25	24°47	n.a.	F 29
S 30	14 19 49	5♉59'31	6♊ 3	27♈44	15♈ 2	11♑31	21♏18	27♑18	19♍ 3	6♒36	3♈25	26♏16	27♏22	24♊53	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n15	17n43	1n 1	13n45	2n48	9s19	1s30	24s18	0s37	18s 6	0n54	21s49	0s40	4n43	0n47	19s27	0s32	14s 4	16s37	19s45	20s 8	21n27		n.a.
S 2	3 38	19 51	0s 4	14 8	2 50	8 53	1 31	24 21	0 39	18 5	0 54	21 49	0 40	4 44	0 47	19 27	0 32	14 3	16 37	19 45	20 8	21 27		n.a.
S 3	4 1	21 3	1 8	14 29	2 51	8 25	1 32	24 23	0 42	18 4	0 54	21 48	0 40	4 45	0 47	19 27	0 32	14 3	16 37	19 45	20 7	21 26		n.a.
M 4	4 24	21 18	2 9	14 46	2 52	7 58	1 33	24 26	0 44	18 3	0 54	21 48	0 41	4 46	0 47	19 26	0 32	14 2	16 37	19 45	20 6	21 26		n.a.
T 5	4 47	20 36	3 4	15 1	2 51	7 30	1 33	24 28	0 46	18 2	0 54	21 47	0 41	4 46	0 47	19 26	0 32	14 2	16 37	19 45	20 5	21 25		n.a.
W 6	5 10	18 59	3 51	15 13	2 49	7 3	1 34	24 31	0 48	18 1	0 54	21 47	0 41	4 47	0 47	19 26	0 32	14 1	16 37	19 45	20 5	21 25		n.a.
T 7	5 33	16 31	4 29	15 21	2 46	6 35	1 35	24 33	0 50	18 0	0 54	21 46	0 41	4 48	0 47	19 26	0 32	14 1	16 37	19 45	20 4	21 25		n.a.
F 8	5 55	13 17	4 56	15 27	2 42	6 6	1 35	24 35	0 53	17 59	0 54	21 46	0 41	4 49	0 47	19 25	0 32	14 0	16 37	19 45	20 3	21 24		n.a.
S 9	6 18	9 23	5 9	15 30	2 37	5 38	1 36	24 37	0 55	17 58	0 54	21 45	0 41	4 50	0 46	19 25	0 32	14 0	16 37	19 43	20 3	21 24		n.a.
S 10	6 40	4 58	5 7	15 31	2 31	5 9	1 36	24 39	0 57	17 57	0 54	21 45	0 41	4 51	0 46	19 25	0 32	13 59	16 37	19 42	20 2	21 23		n.a.
M11	7 3	0 12	4 49	15 28	2 23	4 41	1 36	24 41	1 0	17 55	0 54	21 44	0 42	4 52	0 46	19 25	0 32	13 59	16 37	19 41	20 1	21 23		n.a.
T 12	7 25	4s44	4 14	15 22	2 15	4 12	1 37	24 43	1 2	17 54	0 54	21 44	0 42	4 52	0 46	19 24	0 32	13 58	16 37	19 39	20 1	21 22		n.a.
W13	7 47	9 32	3 22	15 14	2 5	3 43	1 37	24 44	1 5	17 53	0 54	21 44	0 42	4 53	0 46	19 24	0 32	13 58	16 37	19 38	20 0	21 22		n.a.
T 14	8 9	13 54	2 18	15 3	1 54	3 14	1 37	24 46	1 7	17 52	0 54	21 43	0 42	4 54	0 46	19 24	0 32	13 57	16 37	19 37	19 59	21 22		n.a.
F 15	8 31	17 30	1 3	14 50	1 42	2 45	1 37	24 47	1 10	17 50	0 54	21 43	0 42	4 55	0 46	19 24	0 33	13 57	16 37	19 37	19 58	21 21		n.a.
S 16	8 53	20 0	0n16	14 33	1 30	2 16	1 37	24 49	1 12	17 49	0 54	21 42	0 42	4 56	0 46	19 24	0 33	13 56	16 37	19 36	19 58	21 21		n.a.
S 17	9 14	21 11	1 34	14 15	1 16	1 46	1 37	24 50	1 15	17 47	0 54	21 42	0 42	4 56	0 46	19 23	0 33	13 56	16 38	19 37	19 57	21 20		n.a.
M18	9 36	20 57	2 45	13 54	1 1	1 17	1 37	24 52	1 17	17 46	0 54	21 42	0 43	4 57	0 46	19 23	0 33	13 56	16 38	19 37	19 56	21 20		n.a.
T 19	9 57	19 21	3 46	13 32	0 46	0 47	1 36	24 53	1 20	17 44	0 54	21 42	0 43	4 58	0 46	19 23	0 33	13 55	16 38	19 37	19 55	21 19		n.a.
W20	10 18	16 35	4 32	13 8	0 30	0 18	1 36	24 54	1 23	17 43	0 54	21 41	0 43	4 59	0 46	19 23	0 33	13 55	16 38	19 37	19 55	21 19		n.a.
T 21	10 39	12 54	5 2	12 42	0 13	0n12	1 36	24 55	1 26	17 41	0 54	21 41	0 43	4 59	0 46	19 23	0 33	13 54	16 38	19 37	19 54	21 18		n.a.
F 22	11 0	8 36	5 13	12 15	0s 4	0 41	1 35	24 57	1 29	17 40	0 54	21 41	0 43	5 0	0 46	19 23	0 33	13 54	16 38	19 37	19 53	21 18		n.a.
S 23	11 21	3 57	5 7	11 48	0 21	1 11	1 35	24 58	1 31	17 38	0 54	21 41	0 43	5 1	0 46	19 23	0 33	13 54	16 38	19 36	19 53	21 17		n.a.
S 24	11 41	0n49	4 45	11 19	0 38	1 41	1 34	24 59	1 34	17 37	0 54	21 40	0 44	5 1	0 46	19 22	0 33	13 53	16 38	19 35	19 52	21 17		n.a.
M25	12 1	5 28	4 8	10 51	0 56	2 10	1 33	25 0	1 37	17 35	0 54	21 40	0 44	5 2	0 46	19 22	0 33	13 53	16 39	19 34	19 51	21 16		n.a.
T 26	12 22	9 49	3 20	10 23	1 12	2 40	1 33	25 1	1 40	17 33	0 53	21 40	0 44	5 3	0 46	19 22	0 33	13 53	16 39	19 33	19 50	21 16		n.a.
W27	12 42	13 39	2 22	9 56	1 29	3 9	1 32	25 2	1 43	17 31	0 53	21 40	0 44	5 3	0 46	19 22	0 33	13 52	16 39	19 33	19 50	21 15		n.a.
T 28	13 1	16 49	1 18	9 30	1 45	3 39	1 31	25 3	1 46	17 30	0 53	21 40	0 44	5 4	0 46	19 22	0 33	13 52	16 39	19 32	19 49	21 15		n.a.
F 29	13 21	19 12	0 12	9 5	2 0	4 8	1 30	25 4	1 49	17 28	0 53	21 40	0 44	5 4	0 46	19 22	0 33	13 51	16 39	19 32	19 48	21 14		n.a.
S 30	13n40	20n41	0s54	8n41	2s15	4n37	1s29	25s 4	1s53	17s26	0n53	21s40	0s44	5n 5	0n46	19s22	0s33	13s51	16s39	19s32	19s47	21n14		n.a.

Julian Day Number = 1674396.5, Delta T = 03h18m50s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'38, Lahiri = - 5°43'37 Julian Calendar 1 Apr. 129 BCE == Greg. Calendar 29 March 129 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

MAY 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 23 45	6♉56'55	17♊56	27°R19	16♈15	11♑56	21°R11	27♑19	19°R 1	6♒37	3♈27	26♏17	27♏18	25♊ 0	n.a.	S 1
M 2	14 27 42	7°54'18	29°45	26♈57	17°28	12°21	21♏ 4	27°20	19♍ 0	6°37	3°28	26°19	27°15	25° 7	n.a.	M 2
T 3	14 31 38	8°51'40	11♋34	26°39	18°41	12°46	20°57	27°20	18°59	6°37	3°29	26°20	27°12	25°13	n.a.	T 3
W 4	14 35 35	9°49'00	23°27	26°25	19°54	13°10	20°49	27°21	18°57	6°38	3°30	26°21	27° 9	25°20	n.a.	W 4
T 5	14 39 31	10°46'19	5♌29	26°15	21° 7	13°34	20°42	27°22	18°56	6°38	3°31	26°R22	27° 6	25°27	n.a.	T 5
F 6	14 43 28	11°43'37	17°44	26° 9	22°20	13°58	20°35	27°22	18°55	6°38	3°32	26°22	27° 2	25°33	n.a.	F 6
S 7	14 47 24	12°40'54	0♍17	26°D 7	23°33	14°21	20°27	27°23	18°54	6°38	3°33	26°21	26°59	25°40	n.a.	S 7
S 8	14 51 21	13°38'10	13°12	26°10	24°46	14°44	20°20	27°23	18°52	6°38	3°35	26°20	26°56	25°47	n.a.	S 8
M 9	14 55 18	14°35'24	26°31	26°17	25°59	15° 6	20°12	27°23	18°51	6°39	3°36	26°19	26°53	25°53	n.a.	M 9
T 10	14 59 14	15°32'38	10♎16	26°29	27°12	15°28	20° 4	27°23	18°50	6°39	3°37	26°17	26°50	26° 0	n.a.	T 10
W11	15 3 11	16°29'51	24°26	26°45	28°25	15°50	19°57	27°R23	18°49	6°39	3°38	26°16	26°47	26° 7	n.a.	W11
T 12	15 7 7	17°27'03	8♏56	27° 6	29°38	16°11	19°49	27°23	18°48	6°39	3°39	26°15	26°43	26°13	n.a.	T 12
F 13	15 11 4	18°24'14	23°43	27°31	0♑51	16°32	19°42	27°23	18°47	6°R39	3°40	26°D15	26°40	26°20	n.a.	F 13
S 14	15 15 0	19°21'25	8♐38	28° 0	2° 4	16°52	19°34	27°23	18°47	6°39	3°41	26°15	26°37	26°27	n.a.	S 14
S 15	15 18 57	20°18'35	23°34	28°34	3°17	17°12	19°26	27°23	18°46	6°39	3°42	26°16	26°34	26°33	n.a.	S 15
M16	15 22 54	21°15'45	8♑23	29°12	4°30	17°31	19°19	27°22	18°45	6°39	3°43	26°16	26°31	26°40	n.a.	M16
T 17	15 26 50	22°12'55	22°59	29°55	5°43	17°50	19°11	27°22	18°44	6°38	3°44	26°16	26°28	26°47	n.a.	T 17
W18	15 30 47	23°10'04	7♒17	0♑41	6°56	18° 8	19° 3	27°21	18°44	6°38	3°45	26°17	26°24	26°53	n.a.	W18
T 19	15 34 43	24° 7'14	21°15	1°32	8° 9	18°26	18°56	27°20	18°43	6°38	3°46	26°R17	26°21	27° 0	n.a.	T 19
F 20	15 38 40	25° 4'23	4♓53	2°26	9°22	18°43	18°48	27°19	18°43	6°38	3°47	26°17	26°18	27° 7	n.a.	F 20
S 21	15 42 36	26° 1'31	18°11	3°24	10°35	18°59	18°41	27°19	18°42	6°38	3°48	26°D17	26°15	27°13	n.a.	S 21
S 22	15 46 33	26°58'40	1♈10	4°26	11°49	19°15	18°33	27°17	18°42	6°37	3°49	26°17	26°12	27°20	n.a.	S 22
M23	15 50 29	27°55'49	13°53	5°32	13° 2	19°31	18°26	27°16	18°41	6°37	3°50	26°17	26° 8	27°27	n.a.	M23
T 24	15 54 26	28°52'57	26°22	6°41	14°15	19°46	18°18	27°15	18°41	6°37	3°50	26°17	26° 5	27°33	n.a.	T 24
W25	15 58 23	29°50'05	8♉39	7°54	15°28	20° 0	18°11	27°14	18°41	6°36	3°51	26°17	26° 2	27°40	n.a.	W25
T 26	16 2 19	0♊47'14	20°46	9°11	16°41	20°13	18° 3	27°12	18°40	6°36	3°52	26°R18	25°59	27°47	n.a.	T 26
F 27	16 6 16	1°44'22	2♊45	10°31	17°55	20°26	17°56	27°11	18°40	6°35	3°53	26°18	25°56	27°53	n.a.	F 27
S 28	16 10 12	2°41'30	14°38	11°55	19° 8	20°39	17°49	27° 9	18°40	6°35	3°54	26°17	25°53	28° 0	n.a.	S 28
S 29	16 14 9	3°38'38	26°27	13°22	20°21	20°50	17°42	27° 8	18°40	6°34	3°55	26°17	25°49	28° 7	n.a.	S 29
M30	16 18 5	4°35'45	8♋16	14°53	21°34	21° 1	17°35	27° 6	18°D40	6°34	3°55	26°16	25°46	28°13	n.a.	M30
T 31	16 22 2	5♊32'53	20♋ 6	16♉27	22♉48	21♑12	17♏28	27♑ 4	18♍40	6♒33	3♈56	26♏14	25♏43	28♊20	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	13n59	21n13	1s57	8n20	2s28	5n 7	1s28	25s 5	1s56	17s24	0n53	21s40	0s45	5n 6	0n46	19s22	0s33	13s51	16s39	19s32	19s47	21n13			n.a.
M 2	14 18	20 48	2 55	8 0	2 41	5 36	1 27	25 6	1 59	17 22	0 53	21 40	0 45	5 6	0 46	19 22	0 33	13 51	16 40	19 33	19 46	21 13			n.a.
T 3	14 37	19 28	3 45	7 43	2 53	6 5	1 26	25 7	2 2	17 21	0 53	21 40	0 45	5 7	0 46	19 22	0 33	13 50	16 40	19 33	19 45	21 12			n.a.
W 4	14 55	17 17	4 26	7 28	3 3	6 34	1 24	25 8	2 6	17 19	0 53	21 40	0 45	5 7	0 46	19 22	0 33	13 50	16 40	19 33	19 45	21 12			n.a.
T 5	15 13	14 20	4 56	7 15	3 12	7 3	1 23	25 9	2 9	17 17	0 53	21 40	0 45	5 8	0 46	19 22	0 33	13 50	16 40	19 34	19 44	21 11			n.a.
F 6	15 31	10 43	5 13	7 6	3 21	7 31	1 22	25 10	2 13	17 15	0 53	21 40	0 45	5 8	0 46	19 22	0 33	13 49	16 40	19 34	19 43	21 10			n.a.
S 7	15 49	6 34	5 16	6 58	3 28	8 0	1 20	25 11	2 16	17 13	0 53	21 40	0 46	5 8	0 46	19 22	0 33	13 49	16 41	19 33	19 42	21 10			n.a.
S 8	16 7	2 1	5 3	6 54	3 34	8 28	1 19	25 12	2 20	17 11	0 52	21 40	0 46	5 9	0 46	19 22	0 33	13 49	16 41	19 33	19 42	21 9			n.a.
M 9	16 24	2s47	4 34	6 52	3 38	8 57	1 18	25 13	2 23	17 9	0 52	21 40	0 46	5 9	0 46	19 21	0 33	13 49	16 41	19 33	19 41	21 9			n.a.
T 10	16 41	7 36	3 48	6 53	3 42	9 25	1 16	25 14	2 27	17 7	0 52	21 40	0 46	5 10	0 46	19 22	0 33	13 48	16 41	19 32	19 40	21 8			n.a.
W11	16 57	12 10	2 48	6 56	3 45	9 52	1 14	25 15	2 30	17 5	0 52	21 40	0 46	5 10	0 45	19 22	0 33	13 48	16 41	19 32	19 39	21 8			n.a.
T 12	17 14	16 8	1 35	7 2	3 46	10 20	1 13	25 16	2 34	17 3	0 52	21 40	0 46	5 10	0 45	19 22	0 33	13 48	16 42	19 32	19 39	21 7			n.a.
F 13	17 30	19 8	0 14	7 11	3 47	10 47	1 11	25 17	2 38	17 1	0 52	21 41	0 47	5 11	0 45	19 22	0 33	13 48	16 42	19 32	19 38	21 6			n.a.
S 14	17 46	20 52	1n 8	7 22	3 46	11 14	1 9	25 18	2 42	16 59	0 52	21 41	0 47	5 11	0 45	19 22	0 33	13 48	16 42	19 32	19 37	21 6			n.a.
S 15	18 1	21 7	2 26	7 35	3 45	11 41	1 8	25 20	2 46	16 58	0 52	21 41	0 47	5 11	0 45	19 22	0 33	13 47	16 42	19 32	19 36	21 5			n.a.
M16	18 17	19 54	3 33	7 51	3 42	12 8	1 6	25 21	2 49	16 56	0 52	21 41	0 47	5 11	0 45	19 22	0 33	13 47	16 43	19 32	19 36	21 5			n.a.
T 17	18 32	17 22	4 26	8 9	3 39	12 34	1 4	25 22	2 53	16 54	0 51	21 42	0 47	5 12	0 45	19 22	0 33	13 47	16 43	19 32	19 35	21 4			n.a.
W18	18 46	13 49	5 0	8 29	3 35	13 0	1 2	25 24	2 57	16 52	0 51	21 42	0 47	5 12	0 45	19 22	0 34	13 47	16 43	19 32	19 34	21 3			n.a.
T 19	19 1	9 35	5 16	8 51	3 31	13 26	1 0	25 25	3 1	16 50	0 51	21 42	0 48	5 12	0 45	19 22	0 34	13 47	16 43	19 32	19 33	21 3			n.a.
F 20	19 15	4 57	5 14	9 15	3 25	13 52	0 58	25 27	3 6	16 48	0 51	21 43	0 48	5 12	0 45	19 22	0 34	13 47	16 44	19 32	19 33	21 2			n.a.
S 21	19 29	0 12	4 55	9 41	3 19	14 17	0 56	25 29	3 10	16 46	0 51	21 43	0 48	5 12	0 45	19 22	0 34	13 46	16 44	19 32	19 32	21 2			n.a.
S 22	19 42	4n27	4 21	10 8	3 12	14 42	0 54	25 30	3 14	16 44	0 51	21 43	0 48	5 13	0 45	19 22	0 34	13 46	16 44	19 32	19 31	21 1			n.a.
M23	19 55	8 49	3 35	10 37	3 4	15 6	0 52	25 32	3 18	16 42	0 51	21 44	0 48	5 13	0 45	19 22	0 34	13 46	16 44	19 32	19 30	21 0			n.a.
T 24	20 8	12 45	2 39	11 8	2 56	15 30	0 50	25 34	3 22	16 40	0 50	21 44	0 48	5 13	0 45	19 22	0 34	13 46	16 45	19 32	19 30	21 0			n.a.
W25	20 21	16 4	1 37	11 40	2 47	15 54	0 48	25 36	3 27	16 38	0 50	21 44	0 48	5 13	0 45	19 23	0 34	13 46	16 45	19 32	19 29	20 59			n.a.
T 26	20 33	18 38	0 31	12 13	2 38	16 17	0 45	25 39	3 31	16 36	0 50	21 45	0 49	5 13	0 45	19 23	0 34	13 46	16 45	19 33	19 28	20 58			n.a.
F 27	20 45	20 22	0s36	12 48	2 29	16 40	0 43	25 41	3 35	16 34	0 50	21 45	0 49	5 13	0 45	19 23	0 34	13 46	16 45	19 33	19 27	20 58			n.a.
S 28	20 56	21 9	1 40	13 23	2 18	17 3	0 41	25 43	3 40	16 32	0 50	21 46	0 49	5 13	0 45	19 23	0 34	13 46	16 46	19 32	19 27	20 57			n.a.
S 29	21 7	21 0	2 40	14 0	2 8	17 25	0 39	25 46	3 44	16 31	0 49	21 46	0 49	5 13	0 45	19 23	0 34	13 46	16 46	19 32	19 26	20 57			n.a.
M30	21 18	19 55	3 32	14 37	1 57	17 47	0 36	25 49	3 49	16 29	0 49	21 47	0 49	5 13	0 45	19 23	0 34	13 46	16 46	19 32	19 25	20 56			n.a.
T 31	21n28	17n58	4s16	15n15	1s46	18n 8	0s34	25s51	3s53	16s27	0n49	21s47	0s49	5n13	0n45	19s23	0s34	13s46	16s47	19s32	19s24	20n55			n.a.

Julian Day Number = 1674426.5, Delta T = 03h18m49s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'34, Lahiri = - 5°43'33 Julian Calendar 1 May 129 BCE == Greg. Calendar 28 Apr. 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

JUNE 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 25 58	6♊30'00	2♌ 0	18♉ 4	24♉ 1	21♑21	17°R21	27°R 2	18♍40	6°R33	3♈57	26°R13	25♏40	28♊27	n.a.	W 1
T 2	16 29 55	7°27'07	14° 3	19°45	25°14	21°30	17♏14	27♑ 0	18°40	6♒32	3°58	26♏12	25°37	28°33	n.a.	T 2
F 3	16 33 52	8°24'13	26°17	21°28	26°28	21°39	17° 7	26°58	18°40	6°31	3°58	26°11	25°34	28°40	n.a.	F 3
S 4	16 37 48	9°21'20	8♍48	23°15	27°41	21°46	17° 1	26°56	18°41	6°31	3°59	26°D11	25°30	28°47	n.a.	S 4
S 5	16 41 45	10°18'26	21°38	25° 5	28°55	21°53	16°54	26°53	18°41	6°30	4° 0	26°11	25°27	28°53	n.a.	S 5
M 6	16 45 41	11°15'32	4♎52	26°57	0♊ 8	21°59	16°48	26°51	18°41	6°29	4° 0	26°12	25°24	29° 0	n.a.	M 6
T 7	16 49 38	12°12'38	18°32	28°53	1°21	22° 4	16°42	26°48	18°42	6°28	4° 1	26°13	25°21	29° 7	n.a.	T 7
W 8	16 53 34	13° 9'44	2♏39	0♊50	2°35	22° 9	16°35	26°46	18°42	6°28	4° 2	26°14	25°18	29°13	n.a.	W 8
T 9	16 57 31	14° 6'50	17°10	2°51	3°48	22°13	16°29	26°43	18°42	6°27	4° 2	26°15	25°14	29°20	n.a.	T 9
F 10	17 1 27	15° 3'56	2♐ 3	4°53	5° 2	22°16	16°23	26°41	18°43	6°26	4° 3	26°R15	25°11	29°27	n.a.	F 10
S 11	17 5 24	16° 1'03	17°10	6°57	6°15	22°19	16°18	26°38	18°44	6°25	4° 3	26°14	25° 8	29°33	n.a.	S 11
S 12	17 9 21	16°58'10	2♑22	9° 2	7°29	22°20	16°12	26°35	18°44	6°24	4° 4	26°12	25° 5	29°40	n.a.	S 12
M13	17 13 17	17°55'17	17°30	11° 9	8°42	22°21	16° 6	26°32	18°45	6°23	4° 4	26°10	25° 2	29°47	n.a.	M13
T 14	17 17 14	18°52'25	2♒24	13°16	9°56	22°R21	16° 1	26°29	18°46	6°22	4° 5	26° 7	24°59	29°53	n.a.	T 14
W15	17 21 10	19°49'33	16°57	15°25	11°10	22°20	15°56	26°26	18°47	6°21	4° 5	26° 4	24°55	29°59	n.a.	W15
T 16	17 25 7	20°46'42	1♓ 5	17°33	12°23	22°19	15°51	26°23	18°47	6°20	4° 6	26° 2	24°52	0♋ 7	n.a.	T 16
F 17	17 29 3	21°43'52	14°47	19°42	13°37	22°17	15°46	26°19	18°48	6°19	4° 6	26° 1	24°49	0°13	n.a.	F 17
S 18	17 33 0	22°41'02	28° 3	21°50	14°50	22°14	15°41	26°16	18°49	6°18	4° 7	26°D 1	24°46	0°20	n.a.	S 18
S 19	17 36 57	23°38'14	10♈55	23°58	16° 4	22°10	15°36	26°13	18°50	6°17	4° 7	26° 2	24°43	0°27	n.a.	S 19
M20	17 40 53	24°35'26	23°28	26° 5	17°18	22° 5	15°32	26° 9	18°51	6°16	4° 7	26° 3	24°40	0°33	n.a.	M20
T 21	17 44 50	25°32'40	5♉45	28°11	18°32	22° 0	15°27	26° 6	18°52	6°15	4° 8	26° 5	24°36	0°40	n.a.	T 21
W22	17 48 46	26°29'54	17°51	0♋17	19°45	21°54	15°23	26° 2	18°54	6°14	4° 8	26° 6	24°33	0°47	n.a.	W22
T 23	17 52 43	27°27'09	29°47	2°21	20°59	21°47	15°19	25°59	18°55	6°13	4° 8	26°R 6	24°30	0°53	n.a.	T 23
F 24	17 56 39	28°24'25	11♊39	4°24	22°13	21°39	15°15	25°55	18°56	6°11	4° 9	26° 5	24°27	1° 0	n.a.	F 24
S 25	18 0 36	29°21'41	23°28	6°25	23°27	21°31	15°12	25°51	18°57	6°10	4° 9	26° 2	24°24	1° 7	n.a.	S 25
S 26	18 4 32	0♋18'59	5♋16	8°25	24°41	21°22	15° 8	25°47	18°59	6° 9	4° 9	25°58	24°20	1°13	n.a.	S 26
M27	18 8 29	1°16'17	17° 7	10°23	25°54	21°12	15° 5	25°44	19° 0	6° 8	4° 9	25°52	24°17	1°20	n.a.	M27
T 28	18 12 26	2°13'36	29° 0	12°20	27° 8	21° 2	15° 1	25°40	19° 2	6° 6	4°10	25°46	24°14	1°27	n.a.	T 28
W29	18 16 22	3°10'56	11♌ 0	14°15	28°22	20°51	14°58	25°36	19° 3	6° 5	4°10	25°39	24°11	1°33	n.a.	W29
T 30	18 20 19	4♋ 8'17	23♌ 7	16♋ 9	29♊36	20♑40	14♏56	25♑32	19♍ 5	6♒ 4	4♈10	25♏33	24♏ 8	1♋40	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n38	15n15	4s49	15n54	1s34	18n29	0s32	25s54	3s58	16s25	0n49	21s48	0s50	5n13	0n45	19s24	0s34	13s46	16s47	19s31	19s24	20n55		n.a.
T 2	21 48	11 51	5 10	16 33	1 23	18 49	0 29	25 57	4 3	16 23	0 49	21 48	0 50	5 13	0 45	19 24	0 34	13 46	16 47	19 31	19 23	20 54		n.a.
F 3	21 57	7 56	5 17	17 12	1 11	19 9	0 27	26 1	4 7	16 22	0 49	21 49	0 50	5 13	0 45	19 24	0 34	13 46	16 47	19 31	19 22	20 53		n.a.
S 4	22 6	3 35	5 9	17 51	0 59	19 28	0 25	26 4	4 12	16 20	0 48	21 50	0 50	5 13	0 44	19 24	0 34	13 46	16 48	19 31	19 21	20 53		n.a.
S 5	22 15	1s 1	4 46	18 29	0 47	19 47	0 22	26 7	4 16	16 18	0 48	21 50	0 50	5 12	0 44	19 24	0 34	13 46	16 48	19 31	19 20	20 52		n.a.
M 6	22 23	5 44	4 8	19 8	0 35	20 5	0 20	26 11	4 21	16 17	0 48	21 51	0 50	5 12	0 44	19 25	0 34	13 46	16 48	19 31	19 20	20 51		n.a.
T 7	22 31	10 19	3 14	19 45	0 23	20 23	0 18	26 15	4 26	16 15	0 48	21 51	0 50	5 12	0 44	19 25	0 34	13 46	16 49	19 31	19 19	20 50		n.a.
W 8	22 38	14 31	2 7	20 22	0 12	20 40	0 15	26 19	4 30	16 14	0 48	21 52	0 51	5 12	0 44	19 25	0 34	13 46	16 49	19 32	19 18	20 50		n.a.
T 9	22 45	17 57	0 50	20 58	0 0	20 56	0 13	26 23	4 35	16 12	0 47	21 53	0 51	5 12	0 44	19 25	0 34	13 46	16 49	19 32	19 17	20 49		n.a.
F 10	22 52	20 17	0n32	21 32	0n11	21 12	0 10	26 27	4 40	16 10	0 47	21 53	0 51	5 11	0 44	19 26	0 34	13 46	16 50	19 32	19 17	20 48		n.a.
S 11	22 58	21 12	1 53	22 4	0 22	21 28	0 8	26 31	4 45	16 9	0 47	21 54	0 51	5 11	0 44	19 26	0 34	13 46	16 50	19 32	19 16	20 48		n.a.
S 12	23 4	20 35	3 6	22 35	0 32	21 43	0 6	26 35	4 49	16 8	0 47	21 55	0 51	5 11	0 44	19 26	0 34	13 46	16 50	19 31	19 15	20 47		n.a.
M13	23 9	18 29	4 6	23 4	0 42	21 57	0 3	26 40	4 54	16 6	0 47	21 55	0 51	5 10	0 44	19 26	0 34	13 46	16 51	19 31	19 14	20 46		n.a.
T 14	23 14	15 10	4 48	23 30	0 51	22 11	0 1	26 44	4 59	16 5	0 46	21 56	0 52	5 10	0 44	19 27	0 34	13 46	16 51	19 30	19 14	20 46		n.a.
W15	23 19	11 0	5 11	23 54	1 0	22 24	0n 2	26 49	5 3	16 3	0 46	21 57	0 52	5 10	0 44	19 27	0 34	13 46	16 51	19 29	19 13	20 45		n.a.
T 16	23 23	6 20	5 14	24 15	1 8	22 36	0 4	26 54	5 8	16 2	0 46	21 58	0 52	5 9	0 44	19 27	0 34	13 46	16 52	19 29	19 12	20 44		n.a.
F 17	23 27	1 29	4 58	24 34	1 16	22 48	0 7	26 59	5 12	16 1	0 46	21 58	0 52	5 9	0 44	19 27	0 34	13 46	16 52	19 29	19 11	20 43		n.a.
S 18	23 30	3n17	4 27	24 49	1 22	22 59	0 9	27 4	5 17	16 0	0 45	21 59	0 52	5 9	0 44	19 28	0 34	13 47	16 52	19 29	19 10	20 43		n.a.
S 19	23 33	7 47	3 43	25 2	1 28	23 9	0 11	27 9	5 22	15 59	0 45	22 0	0 52	5 8	0 44	19 28	0 34	13 47	16 52	19 29	19 10	20 42		n.a.
M20	23 36	11 50	2 50	25 13	1 34	23 19	0 14	27 14	5 26	15 57	0 45	22 1	0 52	5 8	0 44	19 28	0 34	13 47	16 53	19 29	19 9	20 41		n.a.
T 21	23 38	15 18	1 49	25 20	1 38	23 28	0 16	27 19	5 30	15 56	0 45	22 2	0 53	5 7	0 44	19 29	0 34	13 47	16 53	19 30	19 8	20 40		n.a.
W22	23 40	18 4	0 45	25 24	1 42	23 37	0 18	27 25	5 35	15 55	0 45	22 2	0 53	5 7	0 44	19 29	0 34	13 47	16 53	19 30	19 7	20 40		n.a.
T 23	23 41	20 0	0s20	25 26	1 45	23 45	0 21	27 30	5 39	15 54	0 44	22 3	0 53	5 6	0 44	19 29	0 35	13 47	16 54	19 30	19 6	20 39		n.a.
F 24	23 42	21 3	1 24	25 25	1 47	23 52	0 23	27 35	5 43	15 54	0 44	22 4	0 53	5 6	0 44	19 30	0 35	13 48	16 54	19 30	19 6	20 38		n.a.
S 25	23 42	21 9	2 24	25 22	1 49	23 58	0 25	27 41	5 47	15 53	0 44	22 5	0 53	5 5	0 44	19 30	0 35	13 48	16 54	19 29	19 5	20 37		n.a.
S 26	23 43	20 19	3 18	25 16	1 50	24 3	0 27	27 46	5 51	15 52	0 44	22 6	0 53	5 4	0 44	19 30	0 35	13 48	16 55	19 28	19 4	20 37		n.a.
M27	23 42	18 35	4 3	25 8	1 50	24 8	0 30	27 52	5 55	15 51	0 43	22 7	0 53	5 4	0 43	19 31	0 35	13 48	16 55	19 27	19 3	20 36		n.a.
T 28	23 41	16 4	4 37	24 57	1 50	24 13	0 32	27 57	5 59	15 50	0 43	22 7	0 53	5 3	0 43	19 31	0 35	13 48	16 55	19 25	19 3	20 35		n.a.
W29	23 40	12 51	5 0	24 45	1 49	24 16	0 34	28 3	6 3	15 50	0 43	22 8	0 54	5 3	0 43	19 31	0 35	13 49	16 56	19 23	19 2	20 34		n.a.
T 30	23n39	9n 5	5s10	24n30	1n48	24n19	0n36	28s 8	6s 6	15s49	0n43	22s 9	0s54	5n 2	0n43	19s32	0s35	13s49	16s56	19s22	19s 1	20n34		n.a.

Julian Day Number = 1674457.5, Delta T = 03h18m48s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'30, Lahiri = - 5°43'29 Julian Calendar 1 June 129 BCE == Greg. Calendar 29 May 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

JULY 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 24 15	5♋ 5'38	5♍24	18♋ 1	0♋50	20°R27	14°R53	25°R28	19♍ 6	6°R 2	4♈10	25°R28	24♏ 5	1♋47	n.a.	F 1
S 2	18 28 12	6° 3'00	17°56	19°51	2° 4	20♑15	14♏50	25♑24	19° 8	6♒ 1	4°10	25♏25	24° 1	1°53	n.a.	S 2
S 3	18 32 8	7° 0'23	0♎44	21°39	3°18	20° 2	14°48	25°19	19°10	6° 0	4°10	25°23	23°58	2° 0	n.a.	S 3
M 4	18 36 5	7°57'46	13°52	23°26	4°32	19°48	14°46	25°15	19°11	5°58	4°10	25°D23	23°55	2° 7	n.a.	M 4
T 5	18 40 1	8°55'11	27°23	25°12	5°46	19°34	14°44	25°11	19°13	5°57	4°10	25°24	23°52	2°13	n.a.	T 5
W 6	18 43 58	9°52'36	11♏19	26°56	7° 0	19°20	14°42	25° 7	19°15	5°56	4°11	25°26	23°49	2°20	n.a.	W 6
T 7	18 47 55	10°50'02	25°41	28°38	8°14	19° 5	14°41	25° 2	19°17	5°54	4°R11	25°R26	23°46	2°27	n.a.	T 7
F 8	18 51 51	11°47'29	10♐27	0♌18	9°28	18°51	14°39	24°58	19°19	5°53	4°11	25°25	23°42	2°33	n.a.	F 8
S 9	18 55 48	12°44'57	25°30	1°57	10°42	18°35	14°38	24°54	19°21	5°51	4°11	25°23	23°39	2°40	n.a.	S 9
S 10	18 59 44	13°42'26	10♑44	3°35	11°56	18°20	14°37	24°49	19°23	5°50	4°10	25°18	23°36	2°47	n.a.	S 10
M11	19 3 41	14°39'57	25°58	5°11	13°10	18° 4	14°36	24°45	19°25	5°48	4°10	25°11	23°33	2°53	n.a.	M11
T 12	19 7 37	15°37'28	11♒ 2	6°45	14°25	17°49	14°36	24°41	19°27	5°47	4°10	25° 4	23°30	3° 0	n.a.	T 12
W13	19 11 34	16°35'01	25°46	8°18	15°39	17°33	14°35	24°36	19°29	5°45	4°10	24°56	23°26	3° 7	n.a.	W13
T 14	19 15 30	17°32'36	10♓ 4	9°49	16°53	17°17	14°35	24°32	19°32	5°44	4°10	24°50	23°23	3°13	n.a.	T 14
F 15	19 19 27	18°30'12	23°53	11°18	18° 7	17° 1	14°D35	24°27	19°34	5°42	4°10	24°45	23°20	3°20	n.a.	F 15
S 16	19 23 24	19°27'49	7♈13	12°46	19°21	16°45	14°35	24°23	19°36	5°41	4°10	24°43	23°17	3°27	n.a.	S 16
S 17	19 27 20	20°25'29	20° 6	14°13	20°36	16°30	14°35	24°18	19°38	5°39	4°10	24°D42	23°14	3°34	n.a.	S 17
M18	19 31 17	21°23'10	2♉37	15°37	21°50	16°14	14°36	24°14	19°41	5°37	4° 9	24°42	23°11	3°40	n.a.	M18
T 19	19 35 13	22°20'53	14°50	17° 0	23° 4	15°59	14°36	24° 9	19°43	5°36	4° 9	24°43	23° 7	3°47	n.a.	T 19
W20	19 39 10	23°18'38	26°50	18°22	24°18	15°44	14°37	24° 5	19°46	5°34	4° 9	24°R44	23° 4	3°54	n.a.	W20
T 21	19 43 6	24°16'24	8♊42	19°41	25°33	15°29	14°38	24° 0	19°48	5°33	4° 9	24°42	23° 1	4° 0	n.a.	T 21
F 22	19 47 3	25°14'12	20°30	20°59	26°47	15°14	14°39	23°56	19°51	5°31	4° 8	24°39	22°58	4° 7	n.a.	F 22
S 23	19 50 59	26°12'02	2♋18	22°15	28° 1	15° 0	14°41	23°51	19°53	5°29	4° 8	24°33	22°55	4°14	n.a.	S 23
S 24	19 54 56	27° 9'54	14° 8	23°29	29°16	14°46	14°42	23°47	19°56	5°28	4° 8	24°25	22°52	4°20	n.a.	S 24
M25	19 58 53	28° 7'47	26° 3	24°41	0♌30	14°33	14°44	23°42	19°58	5°26	4° 7	24°15	22°48	4°27	n.a.	M25
T 26	20 2 49	29° 5'42	8♌ 5	25°51	1°45	14°20	14°46	23°38	20° 1	5°25	4° 7	24° 3	22°45	4°34	n.a.	T 26
W27	20 6 46	0♌ 3'38	20°14	26°59	2°59	14° 7	14°48	23°33	20° 4	5°23	4° 7	23°51	22°42	4°40	n.a.	W27
T 28	20 10 42	1° 1'36	2♍31	28° 5	4°13	13°56	14°50	23°29	20° 7	5°21	4° 6	23°39	22°39	4°47	n.a.	T 28
F 29	20 14 39	1°59'35	14°59	29° 8	5°28	13°44	14°53	23°24	20° 9	5°20	4° 6	23°30	22°36	4°54	n.a.	F 29
S 30	20 18 35	2°57'36	27°37	0♍ 9	6°42	13°34	14°56	23°20	20°12	5°18	4° 5	23°22	22°32	5° 0	n.a.	S 30
S 31	20 22 32	3♌55'39	10♎29	1♍ 8	7♌57	13♑24	14♏58	23♑15	20♍15	5♒16	4♈ 5	23♏18	22♏29	5♋ 7	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n37	4n54	5s 6	24n14	1n46	24n21	0n38	28s13	6s10	15s49	0n42	22s10	0s54	5n 1	0n43	19s32	0s35	13s49	16s57	19s21	19s 0	20n33		n.a.
S 2	23 34	0 26	4 47	23 55	1 43	24 22	0 40	28 18	6 13	15 48	0 42	22 11	0 54	5 1	0 43	19 32	0 35	13 49	16 57	19 20	18 59	20 32		n.a.
S 3	23 31	4s10	4 13	23 35	1 40	24 23	0 43	28 24	6 16	15 48	0 42	22 12	0 54	5 0	0 43	19 33	0 35	13 50	16 57	19 20	18 59	20 31		n.a.
M 4	23 28	8 41	3 26	23 14	1 36	24 22	0 45	28 29	6 19	15 47	0 42	22 13	0 54	4 59	0 43	19 33	0 35	13 50	16 58	19 20	18 58	20 30		n.a.
T 5	23 24	12 56	2 26	22 51	1 32	24 21	0 47	28 34	6 22	15 47	0 41	22 14	0 54	4 58	0 43	19 33	0 35	13 50	16 58	19 20	18 57	20 30		n.a.
W 6	23 20	16 36	1 16	22 27	1 28	24 20	0 48	28 38	6 25	15 46	0 41	22 15	0 54	4 58	0 43	19 34	0 35	13 50	16 58	19 20	18 56	20 29		n.a.
T 7	23 16	19 23	0n 1	22 1	1 23	24 17	0 50	28 43	6 27	15 46	0 41	22 15	0 55	4 57	0 43	19 34	0 35	13 51	16 59	19 20	18 55	20 28		n.a.
F 8	23 11	20 56	1 20	21 34	1 18	24 14	0 52	28 48	6 30	15 46	0 41	22 16	0 55	4 56	0 43	19 35	0 35	13 51	16 59	19 20	18 55	20 27		n.a.
S 9	23 5	21 3	2 35	21 7	1 12	24 10	0 54	28 52	6 32	15 46	0 40	22 17	0 55	4 55	0 43	19 35	0 35	13 51	16 59	19 19	18 54	20 26		n.a.
S 10	23 0	19 37	3 40	20 38	1 6	24 6	0 56	28 56	6 34	15 46	0 40	22 18	0 55	4 54	0 43	19 35	0 35	13 52	17 0	19 18	18 53	20 25		n.a.
M11	22 54	16 48	4 28	20 9	0 59	24 0	0 58	29 0	6 36	15 46	0 40	22 19	0 55	4 54	0 43	19 36	0 35	13 52	17 0	19 17	18 52	20 25		n.a.
T 12	22 47	12 53	4 58	19 39	0 53	23 54	0 59	29 4	6 37	15 46	0 40	22 20	0 55	4 53	0 43	19 36	0 35	13 52	17 0	19 15	18 51	20 24		n.a.
W13	22 40	8 15	5 7	19 8	0 46	23 47	1 1	29 8	6 39	15 46	0 40	22 21	0 55	4 52	0 43	19 37	0 35	13 53	17 1	19 13	18 51	20 23		n.a.
T 14	22 33	3 18	4 56	18 36	0 38	23 40	1 3	29 11	6 40	15 46	0 39	22 22	0 55	4 51	0 43	19 37	0 35	13 53	17 1	19 11	18 50	20 22		n.a.
F 15	22 25	1n39	4 29	18 4	0 31	23 32	1 4	29 14	6 41	15 46	0 39	22 23	0 55	4 50	0 43	19 37	0 35	13 53	17 1	19 10	18 49	20 21		n.a.
S 16	22 17	6 22	3 47	17 32	0 23	23 23	1 6	29 17	6 42	15 47	0 39	22 24	0 55	4 49	0 43	19 38	0 35	13 54	17 2	19 10	18 48	20 20		n.a.
S 17	22 8	10 38	2 55	16 59	0 15	23 13	1 7	29 20	6 43	15 47	0 39	22 25	0 56	4 48	0 43	19 38	0 35	13 54	17 2	19 9	18 47	20 20		n.a.
M18	21 59	14 20	1 56	16 26	0 6	23 3	1 9	29 23	6 43	15 47	0 38	22 25	0 56	4 47	0 43	19 39	0 35	13 55	17 2	19 10	18 47	20 19		n.a.
T 19	21 50	17 19	0 53	15 53	0s 2	22 52	1 10	29 25	6 43	15 48	0 38	22 26	0 56	4 46	0 43	19 39	0 35	13 55	17 3	19 10	18 46	20 18		n.a.
W20	21 40	19 29	0s11	15 19	0 11	22 40	1 11	29 27	6 43	15 48	0 38	22 27	0 56	4 45	0 43	19 39	0 35	13 55	17 3	19 10	18 45	20 17		n.a.
T 21	21 30	20 47	1 14	14 46	0 20	22 28	1 13	29 28	6 43	15 49	0 38	22 28	0 56	4 44	0 43	19 40	0 35	13 56	17 3	19 10	18 44	20 16		n.a.
F 22	21 20	21 9	2 13	14 12	0 29	22 14	1 14	29 30	6 43	15 49	0 37	22 29	0 56	4 43	0 43	19 40	0 35	13 56	17 3	19 9	18 43	20 15		n.a.
S 23	21 9	20 35	3 7	13 39	0 38	22 1	1 15	29 31	6 43	15 50	0 37	22 30	0 56	4 42	0 43	19 41	0 35	13 57	17 4	19 7	18 43	20 14		n.a.
S 24	20 58	19 6	3 52	13 5	0 48	21 46	1 16	29 32	6 42	15 51	0 37	22 31	0 56	4 41	0 42	19 41	0 35	13 57	17 4	19 5	18 42	20 14		n.a.
M25	20 46	16 48	4 27	12 32	0 57	21 31	1 17	29 33	6 41	15 51	0 37	22 32	0 56	4 40	0 42	19 42	0 35	13 57	17 4	19 3	18 41	20 13		n.a.
T 26	20 34	13 46	4 51	12 0	1 7	21 16	1 18	29 33	6 40	15 52	0 36	22 32	0 56	4 39	0 42	19 42	0 35	13 58	17 5	19 0	18 40	20 12		n.a.
W27	20 22	10 8	5 2	11 27	1 17	20 59	1 19	29 33	6 39	15 53	0 36	22 33	0 56	4 38	0 42	19 42	0 35	13 58	17 5	18 57	18 39	20 11		n.a.
T 28	20 9	6 3	4 59	10 55	1 27	20 42	1 20	29 33	6 37	15 54	0 36	22 34	0 56	4 36	0 42	19 43	0 35	13 59	17 5	18 54	18 38	20 10		n.a.
F 29	19 56	1 39	4 42	10 24	1 37	20 25	1 21	29 33	6 36	15 55	0 36	22 35	0 57	4 35	0 42	19 43	0 35	13 59	17 6	18 51	18 38	20 9		n.a.
S 30	19 43	2s52	4 11	9 53	1 46	20 7	1 21	29 32	6 34	15 56	0 36	22 36	0 57	4 34	0 42	19 44	0 35	14 0	17 6	18 50	18 37	20 8		n.a.
S 31	19n29	7s21	3s26	9n23	1s56	19n48	1n22	29s32	6s32	15s57	0n35	22s37	0s57	4n33	0n42	19s44	0s35	14s 0	17s 6	18s48	18s36	20n 7		n.a.

Julian Day Number = 1674487.5, Delta T = 03h18m47s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'25, Lahiri = - 5°43'25 Julian Calendar 1 July 129 BCE == Greg. Calendar 28 June 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

AUGUST 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 26 28	4♌53'43	23♎37	2♍ 3	9♌11	13°R15	15♏ 1	23°R11	20♍18	5°R15	4°R 4	23°R16	22♏26	5♋14	n.a.	M 1
T 2	20 30 25	5°51'48	7♏ 3	2°56	10°26	13♑ 6	15° 5	23♑ 7	20°21	5♒13	4♈ 4	23°D15	22°23	5°20	n.a.	T 2
W 3	20 34 22	6°49'55	20°50	3°46	11°40	12°58	15° 8	23° 2	20°24	5°11	4° 3	23°R15	22°20	5°27	n.a.	W 3
T 4	20 38 18	7°48'04	4♐58	4°32	12°55	12°51	15°12	22°58	20°27	5°10	4° 3	23♏15	22°17	5°34	n.a.	T 4
F 5	20 42 15	8°46'14	19°28	5°15	14°10	12°45	15°15	22°54	20°30	5° 8	4° 2	23°13	22°13	5°40	n.a.	F 5
S 6	20 46 11	9°44'26	4♑16	5°54	15°24	12°39	15°19	22°49	20°33	5° 6	4° 2	23° 8	22°10	5°47	n.a.	S 6
S 7	20 50 8	10°42'39	19°16	6°29	16°39	12°34	15°23	22°45	20°36	5° 5	4° 1	23° 1	22° 7	5°54	n.a.	S 7
M 8	20 54 4	11°40'54	4♒20	6°59	17°53	12°30	15°28	22°41	20°39	5° 3	4° 0	22°51	22° 4	6° 1	n.a.	M 8
T 9	20 58 1	12°39'11	19°19	7°26	19° 8	12°27	15°32	22°37	20°42	5° 2	4° 0	22°40	22° 1	6° 7	n.a.	T 9
W10	21 1 57	13°37'30	4♓ 2	7°47	20°22	12°24	15°37	22°33	20°46	5° 0	3°59	22°29	21°57	6°14	n.a.	W10
T 11	21 5 54	14°35'51	18°23	8° 3	21°37	12°23	15°41	22°29	20°49	4°58	3°58	22°20	21°54	6°21	n.a.	T 11
F 12	21 9 51	15°34'14	2♈15	8°14	22°52	12°22	15°46	22°25	20°52	4°57	3°58	22°12	21°51	6°27	n.a.	F 12
S 13	21 13 47	16°32'39	15°39	8°R18	24° 6	12°D21	15°51	22°21	20°55	4°55	3°57	22° 7	21°48	6°34	n.a.	S 13
S 14	21 17 44	17°31'07	28°36	8°17	25°21	12°22	15°57	22°17	20°59	4°53	3°56	22° 4	21°45	6°41	n.a.	S 14
M15	21 21 40	18°29'36	11♉ 9	8° 9	26°36	12°23	16° 2	22°13	21° 2	4°52	3°56	22° 3	21°42	6°47	n.a.	M15
T 16	21 25 37	19°28'09	23°22	7°54	27°50	12°26	16° 7	22° 9	21° 5	4°50	3°55	22° 3	21°38	6°54	n.a.	T 16
W17	21 29 33	20°26'43	5♊22	7°33	29° 5	12°29	16°13	22° 6	21° 9	4°49	3°54	22° 2	21°35	7° 1	n.a.	W17
T 18	21 33 30	21°25'20	17°14	7° 5	0♍20	12°32	16°19	22° 2	21°12	4°47	3°53	22° 1	21°32	7° 7	n.a.	T 18
F 19	21 37 26	22°23'59	29° 2	6°30	1°34	12°37	16°25	21°58	21°15	4°46	3°52	21°57	21°29	7°14	n.a.	F 19
S 20	21 41 23	23°22'40	10♋52	5°48	2°49	12°42	16°31	21°55	21°19	4°44	3°52	21°50	21°26	7°21	n.a.	S 20
S 21	21 45 19	24°21'23	22°46	5° 0	4° 4	12°49	16°38	21°51	21°22	4°43	3°51	21°41	21°23	7°27	n.a.	S 21
M22	21 49 16	25°20'09	4♌48	4° 6	5°18	12°55	16°44	21°48	21°26	4°41	3°50	21°29	21°19	7°34	n.a.	M22
T 23	21 53 13	26°18'57	16°59	3° 8	6°33	13° 3	16°51	21°45	21°29	4°40	3°49	21°15	21°16	7°41	n.a.	T 23
W24	21 57 9	27°17'47	29°21	2° 5	7°48	13°11	16°58	21°41	21°33	4°38	3°48	21° 1	21°13	7°47	n.a.	W24
T 25	22 1 6	28°16'39	11♍54	1° 0	9° 3	13°21	17° 4	21°38	21°36	4°37	3°47	20°48	21°10	7°54	n.a.	T 25
F 26	22 5 2	29°15'33	24°38	29♌54	10°17	13°31	17°12	21°35	21°40	4°35	3°46	20°37	21° 7	8° 1	n.a.	F 26
S 27	22 8 59	0♍14'29	7♎33	28°48	11°32	13°41	17°19	21°32	21°44	4°34	3°45	20°28	21° 3	8° 8	n.a.	S 27
S 28	22 12 55	1°13'27	20°39	27°45	12°47	13°52	17°26	21°29	21°47	4°32	3°45	20°22	21° 0	8°14	n.a.	S 28
M29	22 16 52	2°12'26	3♏56	26°45	14° 2	14° 4	17°34	21°26	21°51	4°31	3°44	20°20	20°57	8°21	n.a.	M29
T 30	22 20 48	3°11'28	17°27	25°51	15°16	14°17	17°41	21°24	21°54	4°29	3°43	20°D19	20°54	8°28	n.a.	T 30
W31	22 24 45	4♍10'32	1♐11	25♌ 4	16♍31	14♑31	17♏49	21♑21	21♍58	4♒28	3♈42	20°R19	20♏51	8♋34	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	19n15	11s36	2s30	8n54	2s 6	19n29	1n23	29s31	6s30	15s58	0n35	22s38	0s57	4n32	0n42	19s44	0s35	14s 1	17s 7	18s48	18s35	20n 6			n.a.
T 2	19 1	15 21	1 25	8 26	2 16	19 9	1 23	29 29	6 28	15 59	0 35	22 38	0 57	4 31	0 42	19 45	0 35	14 1	17 7	18 48	18 34	20 5			n.a.
W 3	18 46	18 22	0 13	7 59	2 26	18 49	1 24	29 28	6 26	16 0	0 35	22 39	0 57	4 29	0 42	19 45	0 35	14 2	17 7	18 48	18 33	20 5			n.a.
T 4	18 31	20 21	1n 2	7 33	2 36	18 28	1 24	29 26	6 23	16 2	0 34	22 40	0 57	4 28	0 42	19 46	0 35	14 2	17 7	18 48	18 33	20 4			n.a.
F 5	18 16	21 3	2 14	7 8	2 45	18 7	1 24	29 24	6 21	16 3	0 34	22 41	0 57	4 27	0 42	19 46	0 35	14 2	17 8	18 47	18 32	20 3			n.a.
S 6	18 1	20 20	3 19	6 45	2 54	17 45	1 25	29 22	6 18	16 4	0 34	22 41	0 57	4 26	0 42	19 47	0 35	14 3	17 8	18 46	18 31	20 2			n.a.
S 7	17 45	18 10	4 11	6 24	3 4	17 22	1 25	29 20	6 15	16 6	0 34	22 42	0 57	4 24	0 42	19 47	0 35	14 3	17 8	18 44	18 30	20 1			n.a.
M 8	17 29	14 46	4 46	6 4	3 12	16 59	1 25	29 18	6 12	16 7	0 34	22 43	0 57	4 23	0 42	19 47	0 35	14 4	17 9	18 42	18 29	20 0			n.a.
T 9	17 12	10 26	5 0	5 47	3 21	16 36	1 25	29 15	6 10	16 9	0 33	22 44	0 57	4 22	0 42	19 48	0 35	14 4	17 9	18 39	18 29	19 59			n.a.
W10	16 55	5 34	4 55	5 31	3 29	16 12	1 25	29 12	6 7	16 10	0 33	22 44	0 57	4 21	0 42	19 48	0 35	14 5	17 9	18 36	18 28	19 58			n.a.
T 11	16 38	0 30	4 31	5 18	3 36	15 48	1 25	29 9	6 3	16 12	0 33	22 45	0 57	4 19	0 42	19 49	0 35	14 5	17 9	18 33	18 27	19 57			n.a.
F 12	16 21	4n26	3 51	5 8	3 43	15 23	1 25	29 6	6 0	16 13	0 33	22 46	0 57	4 18	0 42	19 49	0 35	14 6	17 10	18 31	18 26	19 56			n.a.
S 13	16 3	8 59	3 0	5 0	3 49	14 58	1 25	29 3	5 57	16 15	0 32	22 47	0 57	4 17	0 42	19 49	0 35	14 6	17 10	18 30	18 25	19 55			n.a.
S 14	15 45	12 58	2 1	4 56	3 55	14 33	1 25	29 0	5 54	16 17	0 32	22 47	0 57	4 15	0 42	19 50	0 35	14 7	17 10	18 29	18 24	19 54			n.a.
M15	15 27	16 15	0 57	4 55	3 59	14 7	1 24	28 56	5 50	16 19	0 32	22 48	0 58	4 14	0 42	19 50	0 35	14 7	17 10	18 29	18 24	19 53			n.a.
T 16	15 9	18 43	0s 7	4 57	4 2	13 40	1 24	28 52	5 47	16 20	0 32	22 49	0 58	4 13	0 42	19 51	0 35	14 8	17 11	18 29	18 23	19 52			n.a.
W17	14 50	20 17	1 10	5 3	4 4	13 14	1 24	28 49	5 43	16 22	0 32	22 49	0 58	4 11	0 42	19 51	0 35	14 9	17 11	18 29	18 22	19 51			n.a.
T 18	14 31	20 57	2 9	5 13	4 5	12 46	1 23	28 45	5 40	16 24	0 31	22 50	0 58	4 10	0 42	19 51	0 35	14 9	17 11	18 29	18 21	19 50			n.a.
F 19	14 12	20 40	3 2	5 27	4 4	12 19	1 22	28 41	5 36	16 26	0 31	22 50	0 58	4 9	0 42	19 52	0 35	14 10	17 11	18 28	18 20	19 49			n.a.
S 20	13 53	19 29	3 48	5 45	4 2	11 51	1 22	28 37	5 33	16 28	0 31	22 51	0 58	4 7	0 42	19 52	0 35	14 10	17 12	18 26	18 19	19 48			n.a.
S 21	13 33	17 26	4 23	6 6	3 57	11 23	1 21	28 32	5 29	16 30	0 31	22 52	0 58	4 6	0 42	19 52	0 35	14 11	17 12	18 23	18 19	19 47			n.a.
M22	13 13	14 38	4 48	6 32	3 51	10 55	1 20	28 28	5 25	16 32	0 31	22 52	0 58	4 4	0 42	19 53	0 35	14 11	17 12	18 20	18 18	19 46			n.a.
T 23	12 53	11 10	4 59	7 1	3 43	10 26	1 20	28 24	5 22	16 34	0 30	22 53	0 58	4 3	0 42	19 53	0 35	14 12	17 12	18 17	18 17	19 46			n.a.
W24	12 33	7 12	4 57	7 33	3 33	9 57	1 19	28 19	5 18	16 36	0 30	22 53	0 58	4 2	0 42	19 54	0 35	14 12	17 12	18 13	18 16	19 45			n.a.
T 25	12 12	2 52	4 40	8 7	3 20	9 28	1 18	28 14	5 14	16 39	0 30	22 54	0 58	4 0	0 42	19 54	0 35	14 13	17 13	18 9	18 15	19 44			n.a.
F 26	11 52	1s39	4 9	8 44	3 6	8 59	1 17	28 10	5 11	16 41	0 30	22 54	0 58	3 59	0 42	19 54	0 35	14 13	17 13	18 6	18 14	19 43			n.a.
S 27	11 31	6 10	3 26	9 22	2 50	8 29	1 16	28 5	5 7	16 43	0 30	22 55	0 58	3 57	0 42	19 55	0 35	14 14	17 13	18 4	18 13	19 42			n.a.
S 28	11 10	10 28	2 30	10 0	2 33	7 59	1 15	28 0	5 3	16 45	0 29	22 55	0 58	3 56	0 42	19 55	0 35	14 14	17 13	18 2	18 13	19 41			n.a.
M29	10 48	14 19	1 26	10 37	2 15	7 29	1 13	27 55	4 59	16 48	0 29	22 56	0 58	3 54	0 42	19 55	0 35	14 15	17 13	18 2	18 12	19 40			n.a.
T 30	10 27	17 28	0 15	11 14	1 55	6 58	1 12	27 50	4 55	16 50	0 29	22 56	0 58	3 53	0 42	19 56	0 35	14 15	17 14	18 1	18 11	19 38			n.a.
W31	10n 5	19s42	0n57	11n49	1s36	6n28	1n11	27s44	4s52	16s52	0n29	22s57	0s58	3n51	0n42	19s56	0s35	14s16	17s14	18s 1	18s10	19n37			n.a.

Julian Day Number = 1674518.5, Delta T = 03h18m46s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'21, Lahiri = - 5°43'21 Julian Calendar 1 Aug. 129 BCE == Greg. Calendar 29 July 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

SEPTEMBER 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 28 42	5♍ 9'37	15♐10	24°R26	17♍46	14♉45	17♏57	21°R18	22♍ 2	4°R27	3°R41	20°R18	20♏48	8♋41	n.a.	T 1
F 2	22 32 38	6° 8'45	29°25	23♌56	19° 1	14°59	18° 5	21♉16	22° 5	4♒25	3♈40	20♏17	20°44	8°48	n.a.	F 2
S 3	22 36 35	7° 7'54	13♉52	23°36	20°15	15°15	18°13	21°13	22° 9	4°24	3°39	20°12	20°41	8°54	n.a.	S 3
S 4	22 40 31	8° 7'05	28°30	23°D27	21°30	15°31	18°22	21°11	22°13	4°23	3°38	20° 6	20°38	9° 1	n.a.	S 4
M 5	22 44 28	9° 6'18	13♒11	23°28	22°45	15°47	18°30	21° 9	22°16	4°21	3°37	19°56	20°35	9° 8	n.a.	M 5
T 6	22 48 24	10° 5'33	27°50	23°40	24° 0	16° 5	18°39	21° 6	22°20	4°20	3°36	19°46	20°32	9°14	n.a.	T 6
W 7	22 52 21	11° 4'50	12♓17	24° 2	25°14	16°22	18°47	21° 4	22°24	4°19	3°35	19°35	20°29	9°21	n.a.	W 7
T 8	22 56 17	12° 4'09	26°27	24°34	26°29	16°41	18°56	21° 2	22°28	4°18	3°34	19°25	20°25	9°28	n.a.	T 8
F 9	23 0 14	13° 3'31	10♈14	25°15	27°44	17° 0	19° 5	21° 0	22°31	4°16	3°33	19°18	20°22	9°34	n.a.	F 9
S 10	23 4 10	14° 2'54	23°36	26° 4	28°59	17°19	19°14	20°59	22°35	4°15	3°31	19°12	20°19	9°41	n.a.	S 10
S 11	23 8 7	15° 2'21	6♉34	27° 2	0♎13	17°39	19°23	20°57	22°39	4°14	3°30	19° 9	20°16	9°48	n.a.	S 11
M12	23 12 4	16° 1'49	19° 8	28° 6	1°28	17°59	19°33	20°55	22°43	4°13	3°29	19°D 9	20°13	9°55	n.a.	M12
T 13	23 16 0	17° 1'20	1♊24	29°17	2°43	18°20	19°42	20°54	22°46	4°12	3°28	19° 9	20° 9	10° 1	n.a.	T 13
W14	23 19 57	18° 0'53	13°26	0♍33	3°58	18°42	19°52	20°52	22°50	4°11	3°27	19°R10	20° 6	10° 8	n.a.	W14
T 15	23 23 53	19° 0'29	25°19	1°54	5°13	19° 4	20° 1	20°51	22°54	4°10	3°26	19°10	20° 3	10°15	n.a.	T 15
F 16	23 27 50	20° 0'07	7♋ 9	3°19	6°27	19°26	20°11	20°50	22°58	4° 9	3°25	19° 8	20° 0	10°21	n.a.	F 16
S 17	23 31 46	20°59'47	19° 1	4°47	7°42	19°49	20°21	20°48	23° 2	4° 8	3°24	19° 4	19°57	10°28	n.a.	S 17
S 18	23 35 43	21°59'30	0♌58	6°18	8°57	20°12	20°31	20°47	23° 5	4° 7	3°23	18°58	19°54	10°35	n.a.	S 18
M19	23 39 39	22°59'15	13° 6	7°52	10°12	20°36	20°41	20°46	23° 9	4° 6	3°22	18°49	19°50	10°41	n.a.	M19
T 20	23 43 36	23°59'02	25°26	9°28	11°26	21° 0	20°51	20°46	23°13	4° 5	3°20	18°39	19°47	10°48	n.a.	T 20
W21	23 47 33	24°58'52	8♍ 1	11° 5	12°41	21°25	21° 1	20°45	23°17	4° 4	3°19	18°29	19°44	10°55	n.a.	W21
T 22	23 51 29	25°58'43	20°51	12°43	13°56	21°50	21°12	20°44	23°20	4° 3	3°18	18°19	19°41	11° 1	n.a.	T 22
F 23	23 55 26	26°58'37	3♎55	14°22	15°11	22°15	21°22	20°44	23°24	4° 2	3°17	18°11	19°38	11° 8	n.a.	F 23
S 24	23 59 22	27°58'33	17°12	16° 2	16°25	22°41	21°33	20°43	23°28	4° 1	3°16	18° 5	19°34	11°15	n.a.	S 24
S 25	0 3 19	28°58'30	0♏40	17°43	17°40	23° 8	21°44	20°43	23°32	4° 1	3°15	18° 1	19°31	11°22	n.a.	S 25
M26	0 7 15	29°58'30	14°19	19°24	18°55	23°34	21°54	20°43	23°36	4° 0	3°14	18°D 0	19°28	11°28	n.a.	M26
T 27	0 11 12	0♎58'32	28° 6	21° 5	20°10	24° 1	22° 5	20°42	23°39	3°59	3°13	18° 0	19°25	11°35	n.a.	T 27
W28	0 15 8	1°58'35	12♐ 1	22°46	21°24	24°29	22°16	20°D42	23°43	3°58	3°11	18° 1	19°22	11°42	n.a.	W28
T 29	0 19 5	2°58'40	26° 3	24°26	22°39	24°56	22°27	20°42	23°47	3°58	3°10	18° 2	19°19	11°48	n.a.	T 29
F 30	0 23 2	3♎58'46	10♉11	26♍ 7	23♎54	25♉24	22♏38	20♉43	23♍51	3♒57	3♈ 9	18°R 2	19♏15	11♋55	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n43	20s45	2n 8	12n21	1s16	5n57	1n10	27s39	4s48	16s55	0n29	22s57	0s58	3n50	0n42	19s56	0s35	14s17	17s14	18s 1	18s 9	19n36		n.a.
F 2	9 22	20 31	3 12	12 49	0 56	5 26	1 8	27 34	4 44	16 57	0 28	22 58	0 58	3 48	0 42	19 57	0 35	14 17	17 14	18 1	18 8	19 35		n.a.
S 3	8 59	18 56	4 4	13 14	0 36	4 55	1 7	27 28	4 41	17 0	0 28	22 58	0 58	3 47	0 42	19 57	0 35	14 18	17 14	18 0	18 8	19 34		n.a.
S 4	8 37	16 6	4 41	13 35	0 17	4 24	1 5	27 23	4 37	17 2	0 28	22 58	0 58	3 45	0 42	19 57	0 35	14 18	17 14	17 58	18 7	19 33		n.a.
M 5	8 15	12 15	5 0	13 51	0n 1	3 53	1 4	27 17	4 33	17 5	0 28	22 59	0 58	3 44	0 41	19 58	0 35	14 19	17 14	17 55	18 6	19 32		n.a.
T 6	7 52	7 41	4 59	14 3	0 17	3 21	1 2	27 11	4 29	17 7	0 28	22 59	0 58	3 42	0 41	19 58	0 35	14 19	17 15	17 53	18 5	19 31		n.a.
W 7	7 29	2 44	4 39	14 11	0 33	2 50	1 0	27 5	4 26	17 10	0 28	22 59	0 58	3 41	0 41	19 58	0 35	14 20	17 15	17 50	18 4	19 30		n.a.
T 8	7 7	2n16	4 2	14 13	0 47	2 18	0 59	26 59	4 22	17 13	0 27	23 0	0 58	3 39	0 41	19 59	0 35	14 20	17 15	17 47	18 3	19 29		n.a.
F 9	6 44	7 2	3 12	14 12	1 0	1 47	0 57	26 53	4 18	17 15	0 27	23 0	0 58	3 38	0 41	19 59	0 35	14 21	17 15	17 45	18 2	19 28		n.a.
S 10	6 21	11 18	2 12	14 5	1 12	1 15	0 55	26 47	4 15	17 18	0 27	23 0	0 58	3 36	0 41	19 59	0 35	14 21	17 15	17 43	18 2	19 27		n.a.
S 11	5 57	14 54	1 7	13 55	1 22	0 43	0 53	26 41	4 11	17 21	0 27	23 1	0 58	3 35	0 41	19 59	0 35	14 22	17 15	17 43	18 1	19 26		n.a.
M12	5 34	17 42	0 0	13 41	1 31	0 11	0 51	26 34	4 8	17 23	0 27	23 1	0 58	3 33	0 41	20 0	0 35	14 22	17 15	17 42	18 0	19 25		n.a.
T 13	5 11	19 37	1s 5	13 23	1 38	0s21	0 49	26 28	4 4	17 26	0 26	23 1	0 58	3 32	0 41	20 0	0 35	14 23	17 15	17 42	17 59	19 24		n.a.
W14	4 47	20 35	2 6	13 2	1 45	0 52	0 47	26 21	4 1	17 29	0 26	23 1	0 58	3 30	0 41	20 0	0 35	14 23	17 15	17 43	17 58	19 23		n.a.
T 15	4 24	20 37	3 1	12 37	1 50	1 24	0 45	26 15	3 57	17 32	0 26	23 2	0 58	3 29	0 41	20 0	0 35	14 24	17 16	17 43	17 57	19 22		n.a.
F 16	4 0	19 43	3 48	12 10	1 54	1 56	0 43	26 8	3 54	17 34	0 26	23 2	0 58	3 27	0 41	20 1	0 35	14 24	17 16	17 42	17 56	19 21		n.a.
S 17	3 36	17 58	4 25	11 40	1 57	2 28	0 41	26 1	3 50	17 37	0 26	23 2	0 58	3 26	0 41	20 1	0 35	14 25	17 16	17 41	17 56	19 20		n.a.
S 18	3 13	15 26	4 51	11 8	1 59	3 0	0 39	25 54	3 47	17 40	0 26	23 2	0 58	3 24	0 41	20 1	0 35	14 25	17 16	17 39	17 55	19 19		n.a.
M19	2 49	12 13	5 4	10 34	2 0	3 31	0 36	25 47	3 43	17 43	0 25	23 2	0 58	3 23	0 41	20 1	0 35	14 26	17 16	17 37	17 54	19 17		n.a.
T 20	2 25	8 26	5 3	9 57	2 0	4 3	0 34	25 40	3 40	17 46	0 25	23 2	0 58	3 21	0 41	20 2	0 35	14 26	17 16	17 34	17 53	19 16		n.a.
W21	2 1	4 12	4 48	9 20	1 59	4 35	0 32	25 33	3 37	17 49	0 25	23 2	0 58	3 20	0 41	20 2	0 35	14 27	17 16	17 31	17 52	19 15		n.a.
T 22	1 37	0s17	4 18	8 40	1 58	5 6	0 30	25 25	3 33	17 52	0 25	23 3	0 58	3 18	0 41	20 2	0 35	14 27	17 16	17 29	17 51	19 14		n.a.
F 23	1 13	4 50	3 34	8 0	1 56	5 38	0 27	25 18	3 30	17 55	0 25	23 3	0 58	3 17	0 41	20 2	0 35	14 28	17 16	17 26	17 50	19 13		n.a.
S 24	0 49	9 15	2 38	7 19	1 54	6 9	0 25	25 10	3 27	17 57	0 25	23 3	0 58	3 15	0 41	20 2	0 35	14 28	17 16	17 25	17 49	19 12		n.a.
S 25	0 25	13 16	1 32	6 36	1 51	6 40	0 22	25 3	3 24	18 0	0 24	23 3	0 58	3 14	0 41	20 3	0 35	14 29	17 16	17 24	17 49	19 11		n.a.
M26	0 1	16 38	0 20	5 53	1 48	7 11	0 20	24 55	3 20	18 3	0 24	23 3	0 58	3 12	0 41	20 3	0 35	14 29	17 16	17 23	17 48	19 10		n.a.
T 27	0s24	19 5	0n54	5 10	1 44	7 42	0 17	24 47	3 17	18 6	0 24	23 3	0 58	3 11	0 41	20 3	0 35	14 30	17 16	17 23	17 47	19 9		n.a.
W28	0 48	20 24	2 6	4 25	1 39	8 12	0 15	24 39	3 14	18 9	0 24	23 3	0 58	3 9	0 41	20 3	0 35	14 30	17 16	17 24	17 46	19 8		n.a.
T 29	1 12	20 28	3 11	3 41	1 35	8 43	0 12	24 31	3 11	18 12	0 24	23 3	0 58	3 8	0 41	20 3	0 35	14 31	17 16	17 24	17 45	19 6		n.a.
F 30	1s36	19s15	4n 5	2n56	1n30	9s13	0n10	24s22	3s 8	18s15	0n24	23s 3	0s58	3n 6	0n41	20s 3	0s35	14s31	17s16	17s24	17s44	19n 5		n.a.

Julian Day Number = 1674549.5, Delta T = 03h18m45s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'17, Lahiri = - 5°43'17 Julian Calendar 1 Sept. 129 BCE == Greg. Calendar 29 Aug. 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

OCTOBER 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 26 58	4♎58'55	24♑24	27♍48	25♎ 8	25♑53	22♏50	20♑43	23♍54	3°R56	3°R 8	18°R 1	19♏12	12♋ 2	n.a.	S 1
S 2	0 30 55	5°59'04	8♒39	29°28	26°23	26°22	23° 1	20°43	23°58	3♒56	3♈ 7	17♏57	19° 9	12° 8	n.a.	S 2
M 3	0 34 51	6°59'16	22°53	1♎ 8	27°38	26°51	23°12	20°44	24° 2	3°55	3° 6	17°52	19° 6	12°15	n.a.	M 3
T 4	0 38 48	7°59'29	7♓ 3	2°47	28°52	27°20	23°24	20°44	24° 5	3°55	3° 5	17°45	19° 3	12°22	n.a.	T 4
W 5	0 42 44	8°59'44	21° 4	4°26	0♏ 7	27°49	23°36	20°45	24° 9	3°54	3° 3	17°39	19° 0	12°28	n.a.	W 5
T 6	0 46 41	10° 0'00	4♈51	6° 5	1°22	28°19	23°47	20°46	24°13	3°54	3° 2	17°33	18°56	12°35	n.a.	T 6
F 7	0 50 37	11° 0'18	18°20	7°44	2°36	28°50	23°59	20°47	24°17	3°54	3° 1	17°28	18°53	12°42	n.a.	F 7
S 8	0 54 34	12° 0'39	1♉31	9°22	3°51	29°20	24°11	20°48	24°20	3°53	3° 0	17°25	18°50	12°49	n.a.	S 8
S 9	0 58 30	13° 1'01	14°22	10°59	5° 6	29°51	24°23	20°49	24°24	3°53	2°59	17°D24	18°47	12°55	n.a.	S 9
M10	1 2 27	14° 1'25	26°54	12°37	6°20	0♒22	24°35	20°50	24°27	3°52	2°58	17°24	18°44	13° 2	n.a.	M10
T 11	1 6 24	15° 1'51	9♊10	14°13	7°35	0°53	24°47	20°51	24°31	3°52	2°57	17°26	18°40	13° 9	n.a.	T 11
W12	1 10 20	16° 2'19	21°13	15°50	8°50	1°24	24°59	20°53	24°35	3°52	2°56	17°28	18°37	13°15	n.a.	W12
T 13	1 14 17	17° 2'49	3♋ 8	17°26	10° 4	1°56	25°11	20°54	24°38	3°52	2°54	17°29	18°34	13°22	n.a.	T 13
F 14	1 18 13	18° 3'22	14°59	19° 2	11°19	2°28	25°23	20°56	24°42	3°52	2°53	17°R30	18°31	13°29	n.a.	F 14
S 15	1 22 10	19° 3'55	26°51	20°38	12°33	3° 0	25°36	20°58	24°45	3°51	2°52	17°30	18°28	13°35	n.a.	S 15
S 16	1 26 6	20° 4'31	8♌50	22°13	13°48	3°32	25°48	20°59	24°49	3°51	2°51	17°28	18°25	13°42	n.a.	S 16
M17	1 30 3	21° 5'09	20°59	23°48	15° 2	4° 5	26° 0	21° 1	24°52	3°51	2°50	17°26	18°21	13°49	n.a.	M17
T 18	1 33 59	22° 5'49	3♍23	25°23	16°17	4°38	26°13	21° 3	24°56	3°51	2°49	17°22	18°18	13°56	n.a.	T 18
W19	1 37 56	23° 6'30	16° 5	26°57	17°32	5°10	26°26	21° 6	24°59	3°D51	2°48	17°18	18°15	14° 2	n.a.	W19
T 20	1 41 53	24° 7'13	29° 5	28°32	18°46	5°44	26°38	21° 8	25° 3	3°51	2°47	17°14	18°12	14° 9	n.a.	T 20
F 21	1 45 49	25° 7'57	12♎26	0♏ 6	20° 1	6°17	26°51	21°10	25° 6	3°51	2°46	17°11	18° 9	14°16	n.a.	F 21
S 22	1 49 46	26° 8'43	26° 5	1°39	21°15	6°51	27° 4	21°13	25°10	3°51	2°45	17° 8	18° 5	14°22	n.a.	S 22
S 23	1 53 42	27° 9'31	9♏59	3°13	22°30	7°24	27°16	21°15	25°13	3°51	2°44	17° 7	18° 2	14°29	n.a.	S 23
M24	1 57 39	28°10'20	24° 6	4°47	23°44	7°58	27°29	21°18	25°16	3°52	2°43	17°D 7	17°59	14°36	n.a.	M24
T 25	2 1 35	29°11'11	8♐20	6°20	24°59	8°32	27°42	21°20	25°20	3°52	2°42	17° 8	17°56	14°42	n.a.	T 25
W26	2 5 32	0♏12'02	22°39	7°53	26°13	9° 7	27°55	21°23	25°23	3°52	2°41	17° 9	17°53	14°49	n.a.	W26
T 27	2 9 28	1°12'55	6♑57	9°26	27°28	9°41	28° 8	21°26	25°26	3°52	2°40	17°11	17°50	14°56	n.a.	T 27
F 28	2 13 25	2°13'48	21°13	10°59	28°42	10°16	28°21	21°29	25°29	3°53	2°39	17°12	17°46	15° 3	n.a.	F 28
S 29	2 17 22	3°14'43	5♒23	12°32	29°57	10°50	28°34	21°32	25°33	3°53	2°38	17°R12	17°43	15° 9	n.a.	S 29
S 30	2 21 18	4°15'38	19°26	14° 4	1♐11	11°25	28°48	21°35	25°36	3°53	2°37	17°11	17°40	15°16	n.a.	S 30
M31	2 25 15	5♏16'35	3♓20	15♏37	2♐25	12♒ 0	29♏ 1	21♑39	25♍39	3♒54	2♈36	17♏10	17♏37	15♋23	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2s 0	16s49	4n44	2n11	1n25	9s43	0n 7	24s14	3s 5	18s18	0n24	23s 3	0s58	3n 5	0n41	20s 4	0s35	14s31	17s16	17s23	17s43	19n 4		n.a.
S 2	2 24	13 23	5 6	1 26	1 20	10 13	0 5	24 5	3 2	18 21	0 23	23 3	0 58	3 3	0 41	20 4	0 35	14 32	17 16	17 22	17 42	19 3		n.a.
M 3	2 48	9 11	5 8	0 41	1 14	10 43	0 2	23 57	2 59	18 25	0 23	23 2	0 58	3 2	0 41	20 4	0 35	14 32	17 16	17 21	17 42	19 2		n.a.
T 4	3 12	4 30	4 52	0s 5	1 8	11 12	0s 0	23 48	2 56	18 28	0 23	23 2	0 58	3 0	0 41	20 4	0 35	14 33	17 16	17 19	17 41	19 1		n.a.
W 5	3 36	0n23	4 19	0 50	1 2	11 41	0 3	23 39	2 53	18 31	0 23	23 2	0 58	2 59	0 41	20 4	0 35	14 33	17 16	17 17	17 40	19 0		n.a.
T 6	4 0	5 10	3 31	1 35	0 56	12 10	0 6	23 30	2 50	18 34	0 23	23 2	0 58	2 57	0 41	20 4	0 35	14 33	17 16	17 16	17 39	18 59		n.a.
F 7	4 24	9 36	2 32	2 20	0 50	12 39	0 8	23 21	2 47	18 37	0 23	23 2	0 58	2 56	0 41	20 4	0 35	14 34	17 16	17 14	17 38	18 57		n.a.
S 8	4 48	13 28	1 26	3 5	0 44	13 7	0 11	23 12	2 44	18 40	0 23	23 2	0 58	2 54	0 41	20 4	0 35	14 34	17 16	17 13	17 37	18 56		n.a.
S 9	5 12	16 36	0 17	3 49	0 37	13 35	0 14	23 2	2 41	18 43	0 22	23 2	0 58	2 53	0 41	20 4	0 35	14 35	17 16	17 13	17 36	18 55		n.a.
M10	5 35	18 51	0s52	4 34	0 31	14 2	0 16	22 53	2 39	18 46	0 22	23 1	0 58	2 52	0 41	20 4	0 35	14 35	17 15	17 13	17 35	18 54		n.a.
T 11	5 59	20 10	1 56	5 18	0 24	14 30	0 19	22 43	2 36	18 49	0 22	23 1	0 58	2 50	0 41	20 4	0 35	14 35	17 15	17 14	17 35	18 53		n.a.
W12	6 23	20 31	2 55	6 1	0 18	14 56	0 21	22 33	2 33	18 52	0 22	23 1	0 58	2 49	0 41	20 5	0 35	14 36	17 15	17 14	17 34	18 52		n.a.
T 13	6 46	19 56	3 45	6 45	0 11	15 23	0 24	22 24	2 30	18 55	0 22	23 1	0 58	2 47	0 42	20 5	0 35	14 36	17 15	17 14	17 33	18 51		n.a.
F 14	7 10	18 28	4 25	7 28	0 5	15 49	0 27	22 14	2 28	18 58	0 22	23 0	0 58	2 46	0 42	20 5	0 35	14 36	17 15	17 15	17 32	18 49		n.a.
S 15	7 33	16 13	4 54	8 10	0s 2	16 15	0 29	22 4	2 25	19 2	0 22	23 0	0 58	2 44	0 42	20 5	0 35	14 37	17 15	17 15	17 31	18 48		n.a.
S 16	7 56	13 16	5 10	8 53	0 8	16 40	0 32	21 53	2 22	19 5	0 21	23 0	0 57	2 43	0 42	20 5	0 35	14 37	17 15	17 14	17 30	18 47		n.a.
M17	8 19	9 43	5 13	9 34	0 15	17 5	0 35	21 43	2 20	19 8	0 21	22 59	0 57	2 42	0 42	20 5	0 35	14 37	17 15	17 13	17 29	18 46		n.a.
T 18	8 42	5 42	5 2	10 15	0 22	17 29	0 37	21 32	2 17	19 11	0 21	22 59	0 57	2 40	0 42	20 5	0 35	14 38	17 15	17 12	17 28	18 45		n.a.
W19	9 5	1 20	4 35	10 56	0 28	17 53	0 40	21 22	2 15	19 14	0 21	22 59	0 57	2 39	0 42	20 5	0 35	14 38	17 14	17 11	17 27	18 43		n.a.
T 20	9 27	3s13	3 54	11 36	0 34	18 17	0 42	21 11	2 12	19 17	0 21	22 58	0 57	2 37	0 42	20 5	0 35	14 38	17 14	17 10	17 27	18 42		n.a.
F 21	9 50	7 43	3 0	12 16	0 41	18 40	0 45	21 0	2 10	19 20	0 21	22 58	0 57	2 36	0 42	20 5	0 35	14 39	17 14	17 9	17 26	18 41		n.a.
S 22	10 12	11 56	1 54	12 55	0 47	19 2	0 47	20 49	2 7	19 23	0 21	22 58	0 57	2 35	0 42	20 5	0 35	14 39	17 14	17 9	17 25	18 40		n.a.
S 23	10 35	15 36	0 39	13 33	0 53	19 24	0 50	20 38	2 5	19 26	0 21	22 57	0 57	2 33	0 42	20 5	0 35	14 39	17 14	17 8	17 24	18 39		n.a.
M24	10 57	18 23	0n38	14 11	0 59	19 46	0 53	20 27	2 2	19 29	0 20	22 57	0 57	2 32	0 42	20 5	0 35	14 39	17 14	17 8	17 23	18 38		n.a.
T 25	11 18	20 3	1 55	14 48	1 5	20 7	0 55	20 16	2 0	19 32	0 20	22 56	0 57	2 31	0 42	20 4	0 35	14 40	17 13	17 8	17 22	18 36		n.a.
W26	11 40	20 26	3 4	15 25	1 11	20 27	0 57	20 4	1 58	19 36	0 20	22 56	0 57	2 29	0 42	20 4	0 35	14 40	17 13	17 9	17 21	18 35		n.a.
T 27	12 2	19 30	4 2	16 0	1 17	20 47	1 0	19 53	1 55	19 39	0 20	22 55	0 57	2 28	0 42	20 4	0 35	14 40	17 13	17 9	17 20	18 34		n.a.
F 28	12 23	17 20	4 45	16 35	1 22	21 6	1 2	19 41	1 53	19 42	0 20	22 55	0 57	2 27	0 42	20 4	0 35	14 40	17 13	17 9	17 19	18 33		n.a.
S 29	12 44	14 8	5 10	17 9	1 27	21 25	1 5	19 29	1 51	19 45	0 20	22 54	0 57	2 26	0 42	20 4	0 35	14 40	17 13	17 9	17 18	18 31		n.a.
S 30	13 5	10 9	5 16	17 43	1 33	21 43	1 7	19 17	1 49	19 48	0 20	22 54	0 57	2 24	0 42	20 4	0 35	14 41	17 13	17 9	17 18	18 30		n.a.
M31	13s26	5s40	5n 4	18s15	1s38	22s 1	1s 9	19s 5	1s46	19s51	0n20	22s53	0s57	2n23	0n42	20s 4	0s35	14s41	17s12	17s 9	17s17	18n29		n.a.

Julian Day Number = 1674579.5, Delta T = 03h18m44s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'13, Lahiri = - 5°43'12 Julian Calendar 1 Oct. 129 BCE == Greg. Calendar 28 Sept. 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

NOVEMBER 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 29 11	6♏17'32	17♓ 4	17♏ 9	3♐40	12♒36	29♏14	21♑42	25♍42	3♒54	2°R35	17°R 9	17♏34	15♋29	n.a.	T 1
W 2	2 33 8	7°18'30	0♈36	18°41	4°54	13°11	29°27	21°45	25°45	3°55	2♈34	17♏ 8	17°31	15°36	n.a.	W 2
T 3	2 37 4	8°19'29	13°55	20°13	6° 9	13°46	29°41	21°49	25°48	3°55	2°33	17° 6	17°27	15°43	n.a.	T 3
F 4	2 41 1	9°20'29	27° 0	21°45	7°23	14°22	29°54	21°53	25°51	3°56	2°32	17° 5	17°24	15°49	n.a.	F 4
S 5	2 44 57	10°21'30	9♉52	23°17	8°37	14°58	0♐ 7	21°56	25°54	3°56	2°31	17° 5	17°21	15°56	n.a.	S 5
S 6	2 48 54	11°22'32	22°29	24°48	9°52	15°34	0°21	22° 0	25°57	3°57	2°31	17°D 5	17°18	16° 3	n.a.	S 6
M 7	2 52 51	12°23'35	4♊52	26°20	11° 6	16° 9	0°34	22° 4	26° 0	3°58	2°30	17° 5	17°15	16°10	n.a.	M 7
T 8	2 56 47	13°24'39	17° 4	27°51	12°20	16°46	0°48	22° 8	26° 3	3°58	2°29	17° 6	17°11	16°16	n.a.	T 8
W 9	3 0 44	14°25'44	29° 5	29°21	13°34	17°22	1° 1	22°12	26° 6	3°59	2°28	17° 6	17° 8	16°23	n.a.	W 9
T 10	3 4 40	15°26'50	11♋ 0	0♐51	14°49	17°58	1°15	22°16	26° 9	4° 0	2°27	17° 6	17° 5	16°30	n.a.	T 10
F 11	3 8 37	16°27'57	22°51	2°21	16° 3	18°34	1°29	22°21	26°11	4° 0	2°26	17° 6	17° 2	16°36	n.a.	F 11
S 12	3 12 33	17°29'05	4♌42	3°50	17°17	19°11	1°42	22°25	26°14	4° 1	2°26	17°R 6	16°59	16°43	n.a.	S 12
S 13	3 16 30	18°30'15	16°39	5°18	18°31	19°47	1°56	22°29	26°17	4° 2	2°25	17°D 6	16°56	16°50	n.a.	S 13
M14	3 20 26	19°31'25	28°46	6°46	19°45	20°24	2°10	22°34	26°19	4° 3	2°24	17° 7	16°52	16°57	n.a.	M14
T 15	3 24 23	20°32'36	11♍ 8	8°12	20°59	21° 1	2°23	22°38	26°22	4° 4	2°23	17° 7	16°49	17° 3	n.a.	T 15
W16	3 28 20	21°33'48	23°48	9°37	22°13	21°38	2°37	22°43	26°25	4° 5	2°23	17° 7	16°46	17°10	n.a.	W16
T 17	3 32 16	22°35'00	6♎50	11° 1	23°27	22°15	2°51	22°48	26°27	4° 6	2°22	17° 8	16°43	17°17	n.a.	T 17
F 18	3 36 13	23°36'14	20°17	12°23	24°42	22°52	3° 4	22°52	26°30	4° 7	2°21	17° 8	16°40	17°23	n.a.	F 18
S 19	3 40 9	24°37'28	4♏ 8	13°43	25°56	23°29	3°18	22°57	26°32	4° 8	2°21	17° 9	16°37	17°30	n.a.	S 19
S 20	3 44 6	25°38'43	18°21	15° 1	27°10	24° 6	3°32	23° 2	26°34	4° 9	2°20	17°R 9	16°33	17°37	n.a.	S 20
M21	3 48 2	26°39'58	2♐52	16°16	28°24	24°43	3°46	23° 7	26°37	4°10	2°20	17° 9	16°30	17°43	n.a.	M21
T 22	3 51 59	27°41'14	17°35	17°28	29°37	25°21	4° 0	23°12	26°39	4°11	2°19	17° 8	16°27	17°50	n.a.	T 22
W23	3 55 55	28°42'30	2♑24	18°35	0♑51	25°58	4°14	23°18	26°41	4°12	2°18	17° 6	16°24	17°57	n.a.	W23
T 24	3 59 52	29°43'46	17° 9	19°39	2° 5	26°36	4°27	23°23	26°44	4°14	2°18	17° 5	16°21	18° 4	n.a.	T 24
F 25	4 3 49	0♐45'03	1♒46	20°37	3°19	27°13	4°41	23°28	26°46	4°15	2°17	17° 3	16°17	18°10	n.a.	F 25
S 26	4 7 45	1°46'19	16° 8	21°29	4°33	27°51	4°55	23°33	26°48	4°16	2°17	17° 2	16°14	18°17	n.a.	S 26
S 27	4 11 42	2°47'34	0♓13	22°15	5°47	28°28	5° 9	23°39	26°50	4°17	2°16	17°D 2	16°11	18°24	n.a.	S 27
M28	4 15 38	3°48'50	13°59	22°53	7° 0	29° 6	5°23	23°44	26°52	4°19	2°16	17° 2	16° 8	18°30	n.a.	M28
T 29	4 19 35	4°50'06	27°27	23°23	8°14	29°44	5°37	23°50	26°54	4°20	2°15	17° 3	16° 5	18°37	n.a.	T 29
W30	4 23 31	5♐51'21	10♈38	23♐43	9♑28	0♓22	5♐51	23♑55	26♍56	4♒21	2♈15	17♏ 4	16♏ 2	18♋44	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s46	0s57	4n35	18s47	1s42	22s17	1s11	18s53	1s44	19s54	0n19	22s53	0s57	2n22	0n42	20s 4	0s35	14s41	17s12	17s 9	17s16	18n28		n.a.
W 2	14 6	3n45	3 50	19 17	1 47	22 34	1 14	18 41	1 42	19 57	0 19	22 52	0 57	2 21	0 42	20 4	0 35	14 41	17 12	17 8	17 15	18 27		n.a.
T 3	14 26	8 13	2 54	19 47	1 51	22 49	1 16	18 28	1 40	20 0	0 19	22 52	0 57	2 19	0 42	20 4	0 35	14 41	17 12	17 8	17 14	18 25		n.a.
F 4	14 46	12 13	1 49	20 16	1 55	23 4	1 18	18 16	1 38	20 3	0 19	22 51	0 57	2 18	0 42	20 3	0 35	14 41	17 11	17 8	17 13	18 24		n.a.
S 5	15 6	15 34	0 40	20 43	1 59	23 18	1 20	18 3	1 36	20 6	0 19	22 50	0 57	2 17	0 42	20 3	0 35	14 42	17 11	17 8	17 12	18 23		n.a.
S 6	15 25	18 7	0s30	21 10	2 3	23 32	1 22	17 50	1 34	20 9	0 19	22 50	0 57	2 16	0 42	20 3	0 35	14 42	17 11	17 8	17 11	18 22		n.a.
M 7	15 44	19 45	1 37	21 35	2 6	23 45	1 24	17 37	1 31	20 12	0 19	22 49	0 57	2 15	0 42	20 3	0 35	14 42	17 11	17 8	17 10	18 20		n.a.
T 8	16 2	20 26	2 39	22 0	2 9	23 57	1 26	17 25	1 29	20 15	0 19	22 48	0 57	2 14	0 42	20 3	0 35	14 42	17 10	17 8	17 9	18 19		n.a.
W 9	16 21	20 10	3 33	22 22	2 11	24 8	1 28	17 11	1 27	20 18	0 18	22 48	0 57	2 13	0 42	20 3	0 35	14 42	17 10	17 8	17 8	18 18		n.a.
T 10	16 39	18 59	4 17	22 44	2 14	24 19	1 30	16 58	1 25	20 21	0 18	22 47	0 57	2 11	0 42	20 2	0 35	14 42	17 10	17 8	17 8	18 17		n.a.
F 11	16 57	16 59	4 50	23 4	2 15	24 29	1 32	16 45	1 23	20 23	0 18	22 46	0 57	2 10	0 42	20 2	0 35	14 42	17 10	17 8	17 7	18 15		n.a.
S 12	17 14	14 17	5 10	23 23	2 17	24 38	1 33	16 32	1 22	20 26	0 18	22 46	0 57	2 9	0 42	20 2	0 35	14 42	17 9	17 8	17 6	18 14		n.a.
S 13	17 32	10 58	5 18	23 41	2 17	24 47	1 35	16 18	1 20	20 29	0 18	22 45	0 57	2 8	0 42	20 2	0 35	14 42	17 9	17 8	17 5	18 13		n.a.
M14	17 49	7 10	5 11	23 57	2 18	24 55	1 37	16 5	1 18	20 32	0 18	22 44	0 57	2 7	0 42	20 2	0 35	14 42	17 9	17 8	17 4	18 12		n.a.
T 15	18 5	3 0	4 50	24 11	2 17	25 2	1 38	15 51	1 16	20 35	0 18	22 43	0 57	2 6	0 42	20 1	0 35	14 42	17 9	17 8	17 3	18 10		n.a.
W16	18 21	1s24	4 15	24 24	2 16	25 8	1 40	15 37	1 14	20 38	0 18	22 42	0 57	2 5	0 42	20 1	0 35	14 42	17 8	17 8	17 2	18 9		n.a.
T 17	18 37	5 53	3 26	24 35	2 15	25 14	1 41	15 23	1 12	20 41	0 18	22 42	0 57	2 4	0 42	20 1	0 35	14 42	17 8	17 8	17 1	18 8		n.a.
F 18	18 53	10 14	2 24	24 44	2 13	25 18	1 42	15 9	1 10	20 43	0 17	22 41	0 57	2 3	0 42	20 1	0 35	14 42	17 8	17 8	17 0	18 7		n.a.
S 19	19 8	14 10	1 12	24 51	2 10	25 22	1 44	14 55	1 8	20 46	0 17	22 40	0 57	2 2	0 42	20 0	0 35	14 42	17 7	17 9	16 59	18 5		n.a.
S 20	19 23	17 23	0n 7	24 57	2 6	25 26	1 45	14 41	1 7	20 49	0 17	22 39	0 57	2 1	0 42	20 0	0 35	14 42	17 7	17 9	16 58	18 4		n.a.
M21	19 38	19 34	1 26	25 0	2 2	25 28	1 46	14 27	1 5	20 52	0 17	22 38	0 57	2 0	0 42	20 0	0 35	14 42	17 7	17 9	16 58	18 3		n.a.
T 22	19 52	20 27	2 41	25 2	1 56	25 30	1 47	14 13	1 3	20 54	0 17	22 37	0 57	2 0	0 42	20 0	0 35	14 42	17 7	17 8	16 57	18 1		n.a.
W23	20 6	19 56	3 45	25 2	1 50	25 31	1 48	13 58	1 1	20 57	0 17	22 37	0 57	1 59	0 42	19 59	0 35	14 42	17 6	17 8	16 56	18 0		n.a.
T 24	20 19	18 3	4 34	25 0	1 42	25 31	1 49	13 44	1 0	21 0	0 17	22 36	0 57	1 58	0 42	19 59	0 35	14 42	17 6	17 8	16 55	17 59		n.a.
F 25	20 32	15 2	5 5	24 56	1 34	25 30	1 50	13 29	0 58	21 2	0 17	22 35	0 57	1 57	0 42	19 59	0 35	14 42	17 6	17 7	16 54	17 58		n.a.
S 26	20 45	11 9	5 16	24 50	1 24	25 28	1 51	13 14	0 56	21 5	0 17	22 34	0 57	1 56	0 42	19 58	0 35	14 42	17 5	17 7	16 53	17 56		n.a.
S 27	20 57	6 43	5 8	24 41	1 13	25 26	1 51	13 0	0 55	21 8	0 17	22 33	0 57	1 55	0 43	19 58	0 35	14 42	17 5	17 7	16 52	17 55		n.a.
M28	21 9	2 2	4 42	24 31	1 1	25 23	1 52	12 45	0 53	21 10	0 16	22 32	0 57	1 55	0 43	19 58	0 35	14 42	17 5	17 7	16 51	17 54		n.a.
T 29	21 20	2n39	4 1	24 19	0 47	25 19	1 53	12 30	0 52	21 13	0 16	22 31	0 57	1 54	0 43	19 57	0 35	14 42	17 4	17 7	16 50	17 52		n.a.
W30	21s32	7n 8	3n 8	24s 6	0s32	25s15	1s53	12s15	0s50	21s15	0n16	22s30	0s57	1n53	0n43	19s57	0s35	14s42	17s 4	17s 7	16s49	17n51		n.a.

Julian Day Number = 1674610.5, Delta T = 03h18m43s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'09, Lahiri = - 5°43'08 Julian Calendar 1 Nov. 129 BCE == Greg. Calendar 29 Oct. 129 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 129 BCE
geocentric

DECEMBER 129 BCE (-128) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 27 28	6♐52'36	23♈34	23°R53	10♉41	1♓ 0	6♐ 5	24♉ 1	26♍58	4♒23	2°R15	17♏ 6	15♏58	18♋51	n.a.	T 1
F 2	4 31 24	7°53'51	6♉17	23♐52	11°55	1°38	6°18	24° 7	27° 0	4°24	2♈14	17° 7	15°55	18°57	n.a.	F 2
S 3	4 35 21	8°55'06	18°47	23°40	13° 9	2°16	6°32	24°13	27° 1	4°26	2°14	17°R 7	15°52	19° 4	n.a.	S 3
S 4	4 39 18	9°56'20	1♊ 8	23°16	14°22	2°54	6°46	24°19	27° 3	4°27	2°13	17° 7	15°49	19°11	n.a.	S 4
M 5	4 43 14	10°57'35	13°19	22°39	15°35	3°32	7° 0	24°24	27° 5	4°29	2°13	17° 5	15°46	19°17	n.a.	M 5
T 6	4 47 11	11°58'49	25°23	21°52	16°49	4°10	7°14	24°30	27° 6	4°30	2°13	17° 1	15°43	19°24	n.a.	T 6
W 7	4 51 7	13° 0'03	7♋20	20°54	18° 2	4°49	7°28	24°36	27° 8	4°32	2°12	16°57	15°39	19°31	n.a.	W 7
T 8	4 55 4	14° 1'17	19°13	19°48	19°15	5°27	7°42	24°43	27°10	4°33	2°12	16°52	15°36	19°37	n.a.	T 8
F 9	4 59 0	15° 2'31	1♌ 4	18°34	20°29	6° 5	7°56	24°49	27°11	4°35	2°12	16°47	15°33	19°44	n.a.	F 9
S 10	5 2 57	16° 3'45	12°56	17°16	21°42	6°44	8° 9	24°55	27°12	4°37	2°12	16°42	15°30	19°51	n.a.	S 10
S 11	5 6 54	17° 4'58	24°52	15°56	22°55	7°22	8°23	25° 1	27°14	4°38	2°12	16°39	15°27	19°58	n.a.	S 11
M12	5 10 50	18° 6'11	6♍56	14°37	24° 8	8° 0	8°37	25° 7	27°15	4°40	2°11	16°37	15°23	20° 4	n.a.	M12
T 13	5 14 47	19° 7'24	19°13	13°21	25°21	8°39	8°51	25°14	27°16	4°42	2°11	16°D36	15°20	20°11	n.a.	T 13
W14	5 18 43	20° 8'37	1♎47	12° 9	26°34	9°17	9° 5	25°20	27°18	4°43	2°11	16°36	15°17	20°18	n.a.	W14
T 15	5 22 40	21° 9'50	14°42	11° 5	27°47	9°56	9°18	25°27	27°19	4°45	2°11	16°38	15°14	20°24	n.a.	T 15
F 16	5 26 36	22°11'02	28° 3	10° 9	29° 0	10°35	9°32	25°33	27°20	4°47	2°11	16°40	15°11	20°31	n.a.	F 16
S 17	5 30 33	23°12'14	11♏52	9°22	0♒13	11°13	9°46	25°40	27°21	4°49	2°11	16°R41	15° 8	20°38	n.a.	S 17
S 18	5 34 29	24°13'26	26° 8	8°44	1°25	11°52	10° 0	25°46	27°22	4°50	2°11	16°40	15° 4	20°45	n.a.	S 18
M19	5 38 26	25°14'37	10♐50	8°16	2°38	12°30	10°13	25°53	27°23	4°52	2°D11	16°38	15° 1	20°51	n.a.	M19
T 20	5 42 23	26°15'48	25°50	7°57	3°51	13° 9	10°27	25°59	27°24	4°54	2°11	16°34	14°58	20°58	n.a.	T 20
W21	5 46 19	27°16'58	11♑ 2	7°47	5° 3	13°48	10°41	26° 6	27°25	4°56	2°11	16°29	14°55	21° 5	n.a.	W21
T 22	5 50 16	28°18'07	26°13	7°D46	6°16	14°27	10°54	26°13	27°25	4°58	2°11	16°22	14°52	21°11	n.a.	T 22
F 23	5 54 12	29°19'14	11♒14	7°53	7°28	15° 5	11° 8	26°20	27°26	5° 0	2°11	16°15	14°49	21°18	n.a.	F 23
S 24	5 58 9	0♑20'21	25°56	8° 7	8°40	15°44	11°21	26°26	27°27	5° 2	2°11	16°10	14°45	21°25	n.a.	S 24
S 25	6 2 5	1°21'27	10♓15	8°28	9°53	16°23	11°35	26°33	27°27	5° 4	2°11	16° 6	14°42	21°32	n.a.	S 25
M26	6 6 2	2°22'31	24° 7	8°55	11° 5	17° 2	11°48	26°40	27°28	5° 6	2°11	16° 4	14°39	21°38	n.a.	M26
T 27	6 9 58	3°23'34	7♈34	9°28	12°17	17°41	12° 2	26°47	27°28	5° 8	2°11	16°D 3	14°36	21°45	n.a.	T 27
W28	6 13 55	4°24'35	20°37	10° 6	13°29	18°20	12°15	26°54	27°29	5°10	2°12	16° 4	14°33	21°52	n.a.	W28
T 29	6 17 52	5°25'36	3♉21	10°49	14°41	18°59	12°29	27° 1	27°29	5°12	2°12	16° 6	14°29	21°58	n.a.	T 29
F 30	6 21 48	6°26'35	15°49	11°36	15°52	19°37	12°42	27° 8	27°29	5°14	2°12	16°R 6	14°26	22° 5	n.a.	F 30
S 31	6 25 45	7♑27'33	28♉ 4	12♐27	17♒ 4	20♓16	12♐55	27♑15	27♍30	5♒16	2♈12	16♏ 5	14♏23	22♋12	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	21s42	11n12	2n 6	23s50	0s16	25s10	1s54	12s 0	0s48	21s18	0n16	22s29	0s57	1n52	0n43	19s57	0s35	14s41	17s 4	17s 8	16s48	17n50			n.a.
F 2	21 52	14 42	0 59	23 33	0n 1	25 3	1 54	11 45	0 47	21 21	0 16	22 28	0 57	1 52	0 43	19 56	0 35	14 41	17 3	17 8	16 47	17 48			n.a.
S 3	22 2	17 28	0s 9	23 14	0 19	24 57	1 54	11 29	0 45	21 23	0 16	22 27	0 57	1 51	0 43	19 56	0 35	14 41	17 3	17 8	16 46	17 47			n.a.
S 4	22 11	19 22	1 16	22 54	0 38	24 49	1 54	11 14	0 44	21 25	0 16	22 26	0 57	1 50	0 43	19 56	0 35	14 41	17 3	17 8	16 45	17 46			n.a.
M 5	22 20	20 21	2 19	22 32	0 58	24 41	1 54	10 59	0 42	21 28	0 16	22 25	0 57	1 50	0 43	19 55	0 35	14 41	17 2	17 7	16 45	17 44			n.a.
T 6	22 29	20 23	3 15	22 10	1 18	24 32	1 54	10 43	0 41	21 30	0 16	22 24	0 57	1 49	0 43	19 55	0 35	14 41	17 2	17 6	16 44	17 43			n.a.
W 7	22 37	19 29	4 2	21 46	1 37	24 22	1 54	10 28	0 39	21 33	0 16	22 23	0 57	1 48	0 43	19 55	0 35	14 40	17 2	17 5	16 43	17 42			n.a.
T 8	22 44	17 44	4 37	21 23	1 56	24 11	1 54	10 12	0 38	21 35	0 15	22 22	0 57	1 48	0 43	19 54	0 35	14 40	17 1	17 4	16 42	17 41			n.a.
F 9	22 52	15 15	5 1	20 59	2 14	24 0	1 54	9 57	0 37	21 38	0 15	22 20	0 57	1 47	0 43	19 54	0 35	14 40	17 1	17 2	16 41	17 39			n.a.
S 10	22 58	12 8	5 12	20 35	2 31	23 48	1 53	9 41	0 35	21 40	0 15	22 19	0 57	1 47	0 43	19 53	0 35	14 40	17 1	17 1	16 40	17 38			n.a.
S 11	23 4	8 31	5 10	20 13	2 45	23 36	1 53	9 25	0 34	21 42	0 15	22 18	0 57	1 46	0 43	19 53	0 35	14 39	17 0	17 0	16 39	17 37			n.a.
M12	23 10	4 32	4 53	19 52	2 57	23 22	1 52	9 10	0 32	21 44	0 15	22 17	0 57	1 46	0 43	19 53	0 35	14 39	17 0	16 59	16 38	17 35			n.a.
T 13	23 15	0 17	4 24	19 34	3 7	23 8	1 52	8 54	0 31	21 47	0 15	22 16	0 57	1 45	0 43	19 52	0 35	14 39	16 59	16 59	16 37	17 34			n.a.
W14	23 20	4s 5	3 41	19 17	3 15	22 54	1 51	8 38	0 30	21 49	0 15	22 15	0 57	1 45	0 43	19 52	0 35	14 39	16 59	16 59	16 36	17 32			n.a.
T 15	23 25	8 24	2 46	19 4	3 20	22 38	1 50	8 22	0 28	21 51	0 15	22 14	0 57	1 44	0 43	19 51	0 35	14 38	16 59	17 0	16 35	17 31			n.a.
F 16	23 29	12 27	1 40	18 53	3 22	22 22	1 49	8 6	0 27	21 53	0 15	22 12	0 57	1 44	0 43	19 51	0 35	14 38	16 58	17 0	16 34	17 30			n.a.
S 17	23 32	15 59	0 26	18 46	3 23	22 6	1 48	7 50	0 26	21 55	0 15	22 11	0 57	1 43	0 43	19 50	0 35	14 38	16 58	17 1	16 33	17 28			n.a.
S 18	23 35	18 40	0n51	18 41	3 22	21 49	1 47	7 34	0 24	21 58	0 14	22 10	0 57	1 43	0 43	19 50	0 35	14 37	16 58	17 0	16 32	17 27			n.a.
M19	23 37	20 13	2 8	18 40	3 19	21 31	1 46	7 18	0 23	22 0	0 14	22 9	0 57	1 43	0 43	19 50	0 35	14 37	16 57	17 0	16 31	17 26			n.a.
T 20	23 39	20 22	3 17	18 41	3 14	21 12	1 45	7 2	0 22	22 2	0 14	22 8	0 57	1 42	0 43	19 49	0 35	14 37	16 57	16 59	16 31	17 24			n.a.
W21	23 41	19 3	4 12	18 45	3 9	20 53	1 43	6 46	0 21	22 4	0 14	22 6	0 57	1 42	0 43	19 49	0 35	14 36	16 57	16 57	16 30	17 23			n.a.
T 22	23 42	16 23	4 50	18 52	3 2	20 34	1 42	6 29	0 19	22 6	0 14	22 5	0 57	1 42	0 43	19 48	0 35	14 36	16 56	16 55	16 29	17 22			n.a.
F 23	23 42	12 40	5 8	19 0	2 54	20 14	1 40	6 13	0 18	22 8	0 14	22 4	0 57	1 42	0 43	19 48	0 35	14 36	16 56	16 53	16 28	17 20			n.a.
S 24	23 42	8 14	5 5	19 10	2 46	19 53	1 39	5 57	0 17	22 10	0 14	22 2	0 57	1 41	0 43	19 47	0 35	14 35	16 55	16 52	16 27	17 19			n.a.
S 25	23 42	3 28	4 42	19 22	2 38	19 32	1 37	5 40	0 16	22 12	0 14	22 1	0 57	1 41	0 44	19 47	0 35	14 35	16 55	16 50	16 26	17 17			n.a.
M26	23 41	1n22	4 4	19 35	2 28	19 10	1 35	5 24	0 15	22 14	0 14	22 0	0 57	1 41	0 44	19 46	0 35	14 35	16 55	16 50	16 25	17 16			n.a.
T 27	23 40	5 59	3 13	19 50	2 19	18 48	1 33	5 8	0 13	22 16	0 14	21 59	0 57	1 41	0 44	19 46	0 35	14 34	16 54	16 50	16 24	17 15			n.a.
W28	23 38	10 12	2 13	20 5	2 9	18 25	1 31	4 51	0 12	22 18	0 14	21 57	0 58	1 41	0 44	19 45	0 35	14 34	16 54	16 50	16 23	17 13			n.a.
T 29	23 36	13 50	1 8	20 21	2 0	18 2	1 29	4 35	0 11	22 19	0 13	21 56	0 58	1 41	0 44	19 45	0 35	14 33	16 54	16 50	16 22	17 12			n.a.
F 30	23 33	16 47	0 2	20 37	1 50	17 38	1 27	4 18	0 10	22 21	0 13	21 55	0 58	1 41	0 44	19 44	0 35	14 33	16 53	16 51	16 21	17 11			n.a.
S 31	23s30	18n55	1s 4	20s53	1n40	17s14	1s25	4s 2	0s 9	22s23	0n13	21s53	0s58	1n40	0n44	19s44	0s35	14s32	16s53	16s50	16s20	17n 9			n.a.

Julian Day Number = 1674640.5, Delta T = 03h18m42s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'05, Lahiri = - 5°43'04 Julian Calendar 1 Dec. 129 BCE == Greg. Calendar 28 Nov. 129 BCE

The year -128 astronomical counting style corresponds to year 129 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

JANUARY 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 29 41	8♉28'29	10♊11	13♐21	18♒16	20♓55	13♐ 9	27♉22	27♍30	5♒18	2♈13	16°R 2	14♏20	22♋19	n.a.	S 1
M 2	6 33 38	9°29'24	22°11	14°19	19°27	21°34	13°22	27°29	27°30	5°20	2°13	15♏57	14°17	22°25	n.a.	M 2
T 3	6 37 34	10°30'18	4♋ 7	15°19	20°38	22°13	13°35	27°36	27°30	5°22	2°13	15°49	14°14	22°32	n.a.	T 3
W 4	6 41 31	11°31'11	16° 0	16°22	21°50	22°52	13°48	27°43	27°R30	5°24	2°14	15°38	14°10	22°39	n.a.	W 4
T 5	6 45 28	12°32'02	27°52	17°28	23° 1	23°31	14° 1	27°50	27°30	5°26	2°14	15°27	14° 7	22°45	n.a.	T 5
F 6	6 49 24	13°32'52	9♌44	18°35	24°12	24°10	14°14	27°57	27°30	5°28	2°14	15°15	14° 4	22°52	n.a.	F 6
S 7	6 53 21	14°33'40	21°39	19°45	25°23	24°49	14°27	28° 4	27°30	5°31	2°15	15° 4	14° 1	22°59	n.a.	S 7
S 8	6 57 17	15°34'28	3♍37	20°57	26°34	25°28	14°40	28°12	27°30	5°33	2°15	14°55	13°58	23° 6	n.a.	S 8
M 9	7 1 14	16°35'14	15°43	22°10	27°44	26° 7	14°53	28°19	27°30	5°35	2°16	14°48	13°55	23°12	n.a.	M 9
T 10	7 5 10	17°35'59	27°58	23°25	28°55	26°46	15° 6	28°26	27°29	5°37	2°16	14°43	13°51	23°19	n.a.	T 10
W11	7 9 7	18°36'43	10♎28	24°42	0♓ 5	27°25	15°19	28°33	27°29	5°39	2°16	14°41	13°48	23°26	n.a.	W11
T 12	7 13 3	19°37'26	23°17	26° 0	1°16	28° 4	15°31	28°41	27°29	5°42	2°17	14°D41	13°45	23°32	n.a.	T 12
F 13	7 17 0	20°38'07	6♏29	27°20	2°26	28°43	15°44	28°48	27°28	5°44	2°18	14°41	13°42	23°39	n.a.	F 13
S 14	7 20 57	21°38'47	20° 7	28°40	3°36	29°22	15°57	28°55	27°28	5°46	2°18	14°R41	13°39	23°46	n.a.	S 14
S 15	7 24 53	22°39'26	4♐13	0♉ 2	4°46	0♈ 1	16° 9	29° 2	27°27	5°48	2°19	14°40	13°35	23°53	n.a.	S 15
M16	7 28 50	23°40'04	18°48	1°26	5°56	0°40	16°22	29°10	27°26	5°50	2°19	14°36	13°32	23°59	n.a.	M16
T 17	7 32 46	24°40'40	3♉47	2°50	7° 5	1°19	16°34	29°17	27°26	5°53	2°20	14°29	13°29	24° 6	n.a.	T 17
W18	7 36 43	25°41'15	19° 2	4°16	8°15	1°58	16°46	29°24	27°25	5°55	2°20	14°20	13°26	24°13	n.a.	W18
T 19	7 40 39	26°41'48	4♒24	5°42	9°24	2°37	16°59	29°31	27°24	5°57	2°21	14° 9	13°23	24°19	n.a.	T 19
F 20	7 44 36	27°42'19	19°39	7°10	10°33	3°16	17°11	29°39	27°23	5°59	2°22	13°58	13°20	24°26	n.a.	F 20
S 21	7 48 32	28°42'48	4♓38	8°39	11°42	3°56	17°23	29°46	27°23	6° 2	2°22	13°49	13°16	24°33	n.a.	S 21
S 22	7 52 29	29°43'15	19°12	10° 8	12°51	4°35	17°35	29°53	27°22	6° 4	2°23	13°41	13°13	24°40	n.a.	S 22
M23	7 56 26	0♒43'41	3♈17	11°39	14° 0	5°14	17°47	0♒ 1	27°21	6° 6	2°24	13°36	13°10	24°46	n.a.	M23
T 24	8 0 22	1°44'04	16°52	13°11	15° 8	5°53	17°59	0° 8	27°20	6° 8	2°25	13°33	13° 7	24°53	n.a.	T 24
W25	8 4 19	2°44'25	29°59	14°44	16°17	6°32	18°11	0°15	27°19	6°11	2°25	13°D32	13° 4	25° 0	n.a.	W25
T 26	8 8 15	3°44'44	12♉42	16°17	17°25	7°11	18°23	0°23	27°17	6°13	2°26	13°R32	13° 0	25° 6	n.a.	T 26
F 27	8 12 12	4°45'01	25° 5	17°52	18°33	7°50	18°34	0°30	27°16	6°15	2°27	13°32	12°57	25°13	n.a.	F 27
S 28	8 16 8	5°45'15	7♊14	19°28	19°40	8°29	18°46	0°37	27°15	6°18	2°28	13°30	12°54	25°20	n.a.	S 28
S 29	8 20 5	6°45'28	19°14	21° 5	20°48	9° 8	18°57	0°45	27°14	6°20	2°29	13°26	12°51	25°27	n.a.	S 29
M30	8 24 1	7°45'39	1♋ 8	22°42	21°55	9°47	19° 9	0°52	27°12	6°22	2°30	13°18	12°48	25°33	n.a.	M30
T 31	8 27 58	8♒45'47	12♋59	24♉21	23♓ 2	10♈26	19♐20	0♒59	27♍11	6♒24	2♈30	13♏ 8	12♏45	25♋40	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23s26	20n 9	2s 6	21s10	1n30	16s50	1s22	3s45	0s 8	22s25	0n13	21s52	0s58	1n40	0n44	19s43	0s35	14s32	16s52	16s49	16s19	17n 8			n.a.
M 2	23 22	20 28	3 1	21 27	1 20	16 25	1 20	3 29	0 7	22 27	0 13	21 50	0 58	1 40	0 44	19 43	0 35	14 32	16 52	16 48	16 18	17 6			n.a.
T 3	23 17	19 51	3 48	21 43	1 10	16 0	1 17	3 12	0 6	22 28	0 13	21 49	0 58	1 40	0 44	19 42	0 35	14 31	16 52	16 45	16 17	17 5			n.a.
W 4	23 12	18 21	4 25	22 0	1 1	15 34	1 15	2 56	0 5	22 30	0 13	21 48	0 58	1 40	0 44	19 42	0 35	14 31	16 51	16 42	16 16	17 4			n.a.
T 5	23 7	16 5	4 50	22 16	0 51	15 8	1 12	2 39	0 4	22 32	0 13	21 46	0 58	1 40	0 44	19 41	0 35	14 30	16 51	16 39	16 15	17 2			n.a.
F 6	23 1	13 9	5 2	22 31	0 42	14 41	1 9	2 23	0 3	22 33	0 13	21 45	0 58	1 40	0 44	19 41	0 35	14 30	16 51	16 36	16 14	17 1			n.a.
S 7	22 54	9 41	5 2	22 46	0 32	14 15	1 6	2 6	0 2	22 35	0 13	21 44	0 58	1 41	0 44	19 40	0 35	14 29	16 50	16 32	16 13	16 59			n.a.
S 8	22 47	5 49	4 48	23 0	0 23	13 47	1 3	1 50	0 1	22 37	0 13	21 42	0 58	1 41	0 44	19 40	0 35	14 29	16 50	16 30	16 12	16 58			n.a.
M 9	22 40	1 41	4 21	23 14	0 14	13 20	1 0	1 33	0n 0	22 38	0 12	21 41	0 58	1 41	0 44	19 39	0 35	14 28	16 50	16 27	16 11	16 57			n.a.
T 10	22 32	2s35	3 42	23 27	0 6	12 52	0 57	1 17	0 1	22 40	0 12	21 39	0 58	1 41	0 44	19 38	0 35	14 28	16 49	16 26	16 11	16 55			n.a.
W11	22 24	6 49	2 52	23 39	0s 3	12 24	0 54	1 0	0 2	22 41	0 12	21 38	0 58	1 41	0 44	19 38	0 35	14 27	16 49	16 25	16 10	16 54			n.a.
T 12	22 15	10 52	1 51	23 50	0 11	11 56	0 50	0 43	0 3	22 43	0 12	21 36	0 58	1 41	0 44	19 37	0 35	14 27	16 49	16 25	16 9	16 52			n.a.
F 13	22 6	14 31	0 44	24 0	0 19	11 27	0 47	0 27	0 4	22 44	0 12	21 35	0 58	1 42	0 44	19 37	0 35	14 26	16 48	16 26	16 8	16 51			n.a.
S 14	21 57	17 30	0n29	24 9	0 27	10 58	0 43	0 10	0 5	22 45	0 12	21 33	0 58	1 42	0 44	19 36	0 35	14 26	16 48	16 26	16 7	16 49			n.a.
S 15	21 47	19 34	1 42	24 17	0 35	10 29	0 40	0n 6	0 6	22 47	0 12	21 32	0 58	1 42	0 44	19 36	0 35	14 25	16 48	16 25	16 6	16 48			n.a.
M16	21 37	20 24	2 51	24 24	0 42	10 0	0 36	0 23	0 7	22 48	0 12	21 31	0 58	1 42	0 44	19 35	0 35	14 25	16 47	16 24	16 5	16 47			n.a.
T 17	21 26	19 50	3 49	24 30	0 49	9 30	0 32	0 39	0 8	22 50	0 12	21 29	0 59	1 43	0 44	19 35	0 35	14 24	16 47	16 22	16 4	16 45			n.a.
W18	21 15	17 50	4 33	24 34	0 56	9 1	0 29	0 56	0 9	22 51	0 12	21 28	0 59	1 43	0 44	19 34	0 35	14 23	16 47	16 19	16 3	16 44			n.a.
T 19	21 3	14 34	4 57	24 37	1 2	8 31	0 25	1 12	0 10	22 52	0 12	21 26	0 59	1 43	0 44	19 34	0 35	14 23	16 46	16 16	16 2	16 42			n.a.
F 20	20 51	10 20	5 0	24 39	1 9	8 1	0 21	1 29	0 11	22 54	0 11	21 25	0 59	1 44	0 44	19 33	0 35	14 22	16 46	16 13	16 1	16 41			n.a.
S 21	20 39	5 33	4 42	24 40	1 15	7 31	0 17	1 45	0 12	22 55	0 11	21 23	0 59	1 44	0 44	19 32	0 35	14 22	16 46	16 10	16 0	16 39			n.a.
S 22	20 26	0 33	4 6	24 39	1 20	7 0	0 13	2 2	0 12	22 56	0 11	21 22	0 59	1 44	0 45	19 32	0 35	14 21	16 45	16 7	15 59	16 38			n.a.
M23	20 13	4n19	3 16	24 37	1 26	6 30	0 8	2 18	0 13	22 57	0 11	21 20	0 59	1 45	0 45	19 31	0 35	14 21	16 45	16 6	15 58	16 36			n.a.
T 24	20 0	8 48	2 16	24 33	1 31	5 59	0 4	2 35	0 14	22 58	0 11	21 19	0 59	1 45	0 45	19 31	0 35	14 20	16 45	16 5	15 57	16 35			n.a.
W25	19 46	12 42	1 11	24 28	1 36	5 28	0n 0	2 51	0 15	23 0	0 11	21 17	0 59	1 46	0 45	19 30	0 35	14 19	16 44	16 5	15 56	16 34			n.a.
T 26	19 32	15 54	0 4	24 22	1 40	4 58	0 4	3 7	0 16	23 1	0 11	21 16	0 59	1 46	0 45	19 30	0 35	14 19	16 44	16 5	15 55	16 32			n.a.
F 27	19 17	18 16	1s 1	24 14	1 44	4 27	0 9	3 24	0 17	23 2	0 11	21 14	0 59	1 47	0 45	19 29	0 35	14 18	16 44	16 5	15 54	16 31			n.a.
S 28	19 3	19 46	2 2	24 4	1 48	3 56	0 13	3 40	0 17	23 3	0 11	21 12	0 59	1 47	0 45	19 29	0 35	14 18	16 43	16 4	15 53	16 29			n.a.
S 29	18 48	20 20	2 57	23 52	1 52	3 25	0 18	3 56	0 18	23 4	0 11	21 11	0 59	1 48	0 45	19 28	0 35	14 17	16 43	16 3	15 52	16 28			n.a.
M30	18 32	19 59	3 43	23 39	1 55	2 54	0 23	4 12	0 19	23 5	0 11	21 9	0 59	1 48	0 45	19 27	0 35	14 16	16 43	16 0	15 51	16 26			n.a.
T 31	18s16	18n46	4s20	23s25	1s57	2s23	0n27	4n29	0n20	23s 6	0n11	21s 8	1s 0	1n49	0n45	19s27	0s35	14s16	16s42	15s57	15s50	16n25			n.a.

Julian Day Number = 1674671.5, Delta T = 03h18m41s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°50'00, Lahiri = - 5°43'00 Julian Calendar 1 Jan. 128 BCE == Greg. Calendar 29 Dec. 129 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

FEBRUARY 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 31 55	9♒45'53	24♋50	26♑ 1	24♓ 9	11♈ 5	19♐31	1♒ 6	27°R10	6♒27	2♈31	12°R55	12♏41	25♋47	n.a.	W 1
T 2	8 35 51	10°45'58	6♌43	27°42	25°16	11°44	19°43	1°14	27♍ 8	6°29	2°32	12♏41	12°38	25°53	n.a.	T 2
F 3	8 39 48	11°46'00	18°39	29°24	26°22	12°23	19°54	1°21	27° 7	6°31	2°33	12°26	12°35	26° 0	n.a.	F 3
S 4	8 43 44	12°46'00	0♍40	1♒ 7	27°28	13° 2	20° 5	1°28	27° 5	6°34	2°34	12°12	12°32	26° 7	n.a.	S 4
S 5	8 47 41	13°45'59	12°46	2°51	28°34	13°41	20°16	1°35	27° 3	6°36	2°35	11°59	12°29	26°14	n.a.	S 5
M 6	8 51 37	14°45'55	24°59	4°37	29°40	14°20	20°26	1°42	27° 2	6°38	2°36	11°50	12°26	26°20	n.a.	M 6
T 7	8 55 34	15°45'49	7♎21	6°23	0♈45	14°59	20°37	1°50	27° 0	6°40	2°37	11°43	12°22	26°27	n.a.	T 7
W 8	8 59 30	16°45'42	19°56	8°11	1°51	15°38	20°48	1°57	26°58	6°43	2°38	11°40	12°19	26°34	n.a.	W 8
T 9	9 3 27	17°45'33	2♏45	9°59	2°55	16°17	20°58	2° 4	26°57	6°45	2°39	11°38	12°16	26°41	n.a.	T 9
F 10	9 7 23	18°45'22	15°53	11°49	4° 0	16°56	21° 9	2°11	26°55	6°47	2°40	11°38	12°13	26°47	n.a.	F 10
S 11	9 11 20	19°45'10	29°23	13°40	5° 4	17°35	21°19	2°18	26°53	6°49	2°41	11°38	12°10	26°54	n.a.	S 11
S 12	9 15 17	20°44'55	13♐17	15°32	6° 8	18°13	21°29	2°25	26°51	6°51	2°42	11°37	12° 6	27° 1	n.a.	S 12
M13	9 19 13	21°44'39	27°37	17°26	7°12	18°52	21°39	2°32	26°49	6°54	2°43	11°33	12° 3	27° 7	n.a.	M13
T 14	9 23 10	22°44'22	12♑20	19°20	8°16	19°31	21°49	2°39	26°47	6°56	2°44	11°26	12° 0	27°14	n.a.	T 14
W15	9 27 6	23°44'02	27°22	21°16	9°19	20°10	21°59	2°46	26°45	6°58	2°45	11°18	11°57	27°21	n.a.	W15
T 16	9 31 3	24°43'40	12♒33	23°12	10°22	20°49	22° 9	2°53	26°43	7° 0	2°47	11° 7	11°54	27°28	n.a.	T 16
F 17	9 34 59	25°43'16	27°44	25°10	11°24	21°28	22°18	3° 0	26°41	7° 3	2°48	10°56	11°51	27°34	n.a.	F 17
S 18	9 38 56	26°42'50	12♓44	27° 9	12°26	22° 7	22°28	3° 7	26°39	7° 5	2°49	10°46	11°47	27°41	n.a.	S 18
S 19	9 42 52	27°42'21	27°22	29° 8	13°28	22°46	22°37	3°14	26°37	7° 7	2°50	10°37	11°44	27°48	n.a.	S 19
M20	9 46 49	28°41'51	11♈35	1♓ 8	14°29	23°25	22°47	3°21	26°35	7° 9	2°51	10°32	11°41	27°54	n.a.	M20
T 21	9 50 46	29°41'18	25°17	3° 9	15°30	24° 3	22°56	3°28	26°33	7°11	2°52	10°29	11°38	28° 1	n.a.	T 21
W22	9 54 42	0♓40'42	8♉31	5°10	16°31	24°42	23° 5	3°35	26°31	7°13	2°54	10°D28	11°35	28° 8	n.a.	W22
T 23	9 58 39	1°40'04	21°20	7°12	17°31	25°21	23°14	3°41	26°28	7°15	2°55	10°28	11°32	28°15	n.a.	T 23
F 24	10 2 35	2°39'24	3♊47	9°14	18°31	26° 0	23°23	3°48	26°26	7°18	2°56	10°R28	11°28	28°21	n.a.	F 24
S 25	10 6 32	3°38'42	15°57	11°15	19°30	26°39	23°31	3°55	26°24	7°20	2°57	10°27	11°25	28°28	n.a.	S 25
S 26	10 10 28	4°37'57	27°56	13°16	20°29	27°18	23°40	4° 1	26°22	7°22	2°58	10°25	11°22	28°35	n.a.	S 26
M27	10 14 25	5°37'09	9♋49	15°17	21°28	27°56	23°48	4° 8	26°19	7°24	3° 0	10°20	11°19	28°41	n.a.	M27
T 28	10 18 21	6♓36'19	21♋39	17♓16	22♈26	28♈35	23♐57	4♒15	26♍17	7♒26	3♈ 1	10♏12	11♏16	28♋48	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
W 1	18s 0	16n44	4s45	23s 9	2s 0	1s51	0n32	4n45	0n21	23s 7	0n10	21s 6	1s 0	1n50	0n45	19s26	0s35	14s15	16s42	15s53	15s49	16n23		n.a.	W 1
T 2	17 44	14 0	4 58	22 51	2 2	1 20	0 37	5 1	0 21	23 8	0 10	21 5	1 0	1 50	0 45	19 26	0 35	14 15	16 42	15 49	15 48	16 22		n.a.	T 2
F 3	17 27	10 41	4 58	22 31	2 3	0 49	0 42	5 17	0 22	23 9	0 10	21 3	1 0	1 51	0 45	19 25	0 35	14 14	16 42	15 44	15 47	16 20		n.a.	F 3
S 4	17 10	6 56	4 44	22 9	2 4	0 18	0 47	5 33	0 23	23 10	0 10	21 2	1 0	1 51	0 45	19 25	0 35	14 13	16 41	15 40	15 46	16 19		n.a.	S 4
S 5	16 53	2 52	4 18	21 46	2 5	0n13	0 52	5 49	0 23	23 11	0 10	21 0	1 0	1 52	0 45	19 24	0 35	14 13	16 41	15 36	15 45	16 17		n.a.	S 5
M 6	16 35	1s20	3 40	21 21	2 5	0 44	0 57	6 5	0 24	23 12	0 10	20 59	1 0	1 53	0 45	19 23	0 35	14 12	16 41	15 33	15 44	16 16		n.a.	M 6
T 7	16 17	5 33	2 50	20 54	2 5	1 15	1 2	6 21	0 25	23 12	0 10	20 57	1 0	1 53	0 45	19 23	0 35	14 11	16 40	15 31	15 43	16 14		n.a.	T 7
W 8	15 59	9 36	1 52	20 26	2 5	1 45	1 7	6 37	0 26	23 13	0 10	20 56	1 0	1 54	0 45	19 22	0 35	14 11	16 40	15 30	15 42	16 13		n.a.	W 8
T 9	15 41	13 18	0 47	19 55	2 3	2 16	1 12	6 53	0 26	23 14	0 10	20 54	1 0	1 55	0 45	19 22	0 35	14 10	16 40	15 30	15 41	16 11		n.a.	T 9
F 10	15 22	16 25	0n22	19 23	2 2	2 47	1 17	7 8	0 27	23 15	0 10	20 53	1 0	1 56	0 45	19 21	0 35	14 9	16 40	15 30	15 40	16 10		n.a.	F 10
S 11	15 3	18 44	1 32	18 49	2 0	3 17	1 22	7 24	0 28	23 16	0 10	20 51	1 0	1 56	0 45	19 21	0 35	14 9	16 39	15 30	15 39	16 8		n.a.	S 11
S 12	14 44	20 1	2 39	18 13	1 57	3 48	1 27	7 40	0 28	23 16	0 9	20 49	1 1	1 57	0 45	19 20	0 35	14 8	16 39	15 29	15 38	16 7		n.a.	S 12
M13	14 25	20 4	3 38	17 35	1 54	4 18	1 33	7 55	0 29	23 17	0 9	20 48	1 1	1 58	0 45	19 20	0 35	14 8	16 39	15 28	15 37	16 5		n.a.	M13
T 14	14 5	18 45	4 23	16 56	1 50	4 48	1 38	8 11	0 30	23 18	0 9	20 46	1 1	1 59	0 45	19 19	0 35	14 7	16 39	15 26	15 37	16 4		n.a.	T 14
W15	13 46	16 9	4 52	16 14	1 46	5 18	1 43	8 26	0 30	23 19	0 9	20 45	1 1	2 0	0 45	19 18	0 35	14 6	16 39	15 23	15 36	16 2		n.a.	W15
T 16	13 26	12 25	5 1	15 31	1 41	5 48	1 48	8 42	0 31	23 19	0 9	20 43	1 1	2 0	0 45	19 18	0 35	14 6	16 38	15 20	15 35	16 1		n.a.	T 16
F 17	13 5	7 53	4 48	14 46	1 35	6 18	1 54	8 57	0 32	23 20	0 9	20 42	1 1	2 1	0 45	19 17	0 35	14 5	16 38	15 16	15 34	15 59		n.a.	F 17
S 18	12 45	2 55	4 16	14 0	1 29	6 47	1 59	9 12	0 32	23 21	0 9	20 40	1 1	2 2	0 45	19 17	0 35	14 4	16 38	15 13	15 33	15 58		n.a.	S 18
S 19	12 24	2n 6	3 27	13 12	1 23	7 17	2 4	9 27	0 33	23 21	0 9	20 39	1 1	2 3	0 45	19 16	0 35	14 4	16 38	15 11	15 32	15 56		n.a.	S 19
M20	12 3	6 53	2 27	12 22	1 16	7 46	2 10	9 43	0 33	23 22	0 9	20 37	1 1	2 4	0 45	19 16	0 35	14 3	16 37	15 9	15 31	15 55		n.a.	M20
T 21	11 43	11 7	1 20	11 31	1 8	8 15	2 15	9 58	0 34	23 22	0 9	20 36	1 2	2 5	0 45	19 15	0 35	14 2	16 37	15 8	15 30	15 53		n.a.	T 21
W22	11 21	14 40	0 10	10 39	1 0	8 43	2 21	10 13	0 35	23 23	0 9	20 34	1 2	2 6	0 45	19 15	0 35	14 2	16 37	15 8	15 29	15 52		n.a.	W22
T 23	11 0	17 22	0s57	9 45	0 51	9 12	2 26	10 28	0 35	23 24	0 8	20 33	1 2	2 7	0 45	19 14	0 35	14 1	16 37	15 8	15 28	15 50		n.a.	T 23
F 24	10 39	19 10	2 1	8 50	0 41	9 40	2 31	10 42	0 36	23 24	0 8	20 31	1 2	2 7	0 45	19 14	0 35	14 0	16 37	15 8	15 27	15 49		n.a.	F 24
S 25	10 17	20 2	2 57	7 55	0 31	10 8	2 37	10 57	0 36	23 25	0 8	20 30	1 2	2 8	0 45	19 13	0 35	14 0	16 36	15 7	15 26	15 47		n.a.	S 25
S 26	9 55	19 57	3 44	6 58	0 21	10 35	2 42	11 12	0 37	23 25	0 8	20 28	1 2	2 9	0 45	19 13	0 35	13 59	16 36	15 7	15 25	15 46		n.a.	S 26
M27	9 33	18 59	4 22	6 1	0 10	11 3	2 48	11 26	0 37	23 26	0 8	20 27	1 2	2 10	0 45	19 12	0 36	13 58	16 36	15 5	15 24	15 44		n.a.	M27
T 28	9s11	17n13	4s48	5s 4	0n 1	11n30	2n53	11n41	0n38	23s26	0n 8	20s25	1s 2	2n11	0n45	19s12	0s36	13s58	16s36	15s 2	15s23	15n43		n.a.	T 28

Julian Day Number = 1674702.5, Delta T = 03h18m40s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'56, Lahiri = - 5°42'56 Julian Calendar 1 Feb. 128 BCE == Greg. Calendar 29 Jan. 128 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

MARCH 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 22 18	7♓35'27	3♌31	19♓14	23♈23	29♈14	24♐ 5	4♒21	26°R15	7♒28	3♈ 2	10°R 2	11♏12	28♋55	n.a.	W 1
T 2	10 26 14	8°34'33	15°27	21° 9	24°20	29°53	24°13	4°28	26♍12	7°30	3° 3	9♏51	11° 9	29° 2	n.a.	T 2
F 3	10 30 11	9°33'36	27°29	23° 3	25°16	0♉31	24°21	4°34	26°10	7°32	3° 5	9°39	11° 6	29° 8	n.a.	F 3
S 4	10 34 8	10°32'37	9♍38	24°54	26°12	1°10	24°29	4°40	26° 7	7°34	3° 6	9°28	11° 3	29°15	n.a.	S 4
S 5	10 38 4	11°31'36	21°56	26°42	27° 8	1°49	24°36	4°47	26° 5	7°36	3° 7	9°18	11° 0	29°22	n.a.	S 5
M 6	10 42 1	12°30'32	4♎23	28°27	28° 2	2°27	24°44	4°53	26° 2	7°38	3° 9	9°11	10°57	29°29	n.a.	M 6
T 7	10 45 57	13°29'27	16°59	0♈ 8	28°56	3° 6	24°51	4°59	26° 0	7°40	3°10	9° 6	10°53	29°35	n.a.	T 7
W 8	10 49 54	14°28'20	29°47	1°45	29°50	3°45	24°58	5° 6	25°57	7°42	3°11	9° 4	10°50	29°42	n.a.	W 8
T 9	10 53 50	15°27'11	12♏48	3°18	0♉43	4°23	25° 5	5°12	25°55	7°44	3°13	9°D 3	10°47	29°49	n.a.	T 9
F 10	10 57 47	16°26'00	26° 3	4°46	1°35	5° 2	25°12	5°18	25°52	7°45	3°14	9° 4	10°44	29°55	n.a.	F 10
S 11	11 1 43	17°24'47	9♐35	6° 9	2°26	5°40	25°19	5°24	25°50	7°47	3°15	9° 5	10°41	0♌ 2	n.a.	S 11
S 12	11 5 40	18°23'33	23°25	7°27	3°17	6°19	25°26	5°30	25°47	7°49	3°17	9°R 5	10°37	0° 9	n.a.	S 12
M13	11 9 37	19°22'17	7♑33	8°39	4° 7	6°58	25°32	5°36	25°45	7°51	3°18	9° 4	10°34	0°16	n.a.	M13
T 14	11 13 33	20°20'59	21°59	9°46	4°56	7°36	25°38	5°42	25°42	7°53	3°19	9° 0	10°31	0°22	n.a.	T 14
W15	11 17 30	21°19'39	6♒39	10°47	5°45	8°15	25°45	5°48	25°40	7°55	3°21	8°55	10°28	0°29	n.a.	W15
T 16	11 21 26	22°18'17	21°27	11°43	6°32	8°53	25°51	5°54	25°37	7°56	3°22	8°48	10°25	0°36	n.a.	T 16
F 17	11 25 23	23°16'54	6♓17	12°33	7°19	9°32	25°56	5°59	25°35	7°58	3°23	8°41	10°22	0°42	n.a.	F 17
S 18	11 29 19	24°15'28	20°59	13°17	8° 5	10°10	26° 2	6° 5	25°32	8° 0	3°25	8°35	10°18	0°49	n.a.	S 18
S 19	11 33 16	25°14'00	5♈26	13°54	8°50	10°49	26° 8	6°11	25°29	8° 1	3°26	8°29	10°15	0°56	n.a.	S 19
M20	11 37 12	26°12'31	19°33	14°26	9°34	11°27	26°13	6°16	25°27	8° 3	3°27	8°26	10°12	1° 3	n.a.	M20
T 21	11 41 9	27°10'59	3♉14	14°51	10°17	12° 6	26°18	6°22	25°24	8° 5	3°29	8°D24	10° 9	1° 9	n.a.	T 21
W22	11 45 5	28° 9'25	16°31	15°11	10°59	12°44	26°23	6°27	25°22	8° 6	3°30	8°24	10° 6	1°16	n.a.	W22
T 23	11 49 2	29° 7'49	29°23	15°24	11°40	13°23	26°28	6°33	25°19	8° 8	3°32	8°26	10° 3	1°23	n.a.	T 23
F 24	11 52 59	0♈ 6'11	11♊54	15°32	12°20	14° 1	26°33	6°38	25°17	8°10	3°33	8°27	9°59	1°30	n.a.	F 24
S 25	11 56 55	1° 4'31	24° 8	15°R33	12°59	14°40	26°37	6°43	25°14	8°11	3°34	8°28	9°56	1°36	n.a.	S 25
S 26	12 0 52	2° 2'48	6♋10	15°29	13°36	15°18	26°42	6°48	25°12	8°13	3°36	8°R28	9°53	1°43	n.a.	S 26
M27	12 4 48	3° 1'04	18° 5	15°20	14°12	15°57	26°46	6°54	25° 9	8°14	3°37	8°27	9°50	1°50	n.a.	M27
T 28	12 8 45	3°59'17	29°57	15° 6	14°47	16°35	26°50	6°59	25° 6	8°16	3°38	8°24	9°47	1°56	n.a.	T 28
W29	12 12 41	4°57'28	11♌51	14°46	15°21	17°13	26°54	7° 4	25° 4	8°17	3°40	8°20	9°43	2° 3	n.a.	W29
T 30	12 16 38	5°55'37	23°50	14°23	15°53	17°52	26°57	7° 9	25° 1	8°19	3°41	8°15	9°40	2°10	n.a.	T 30
F 31	12 20 34	6♈53'44	5♍58	13♈55	16♉24	18♉30	27♐ 1	7♒13	24♍59	8♒20	3♈43	8♏10	9♏37	2♌17	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	8s49	14n42	5s 1	4s 7	0n13	11n56	2n58	11n55	0n39	23s27	0n 8	20s24	1s 2	2n12	0n45	19s11	0s36	13s57	16s36	14s59	15s22	15n41			n.a.
T 2	8 27	11 35	5 2	3 10	0 24	12 22	3 4	12 10	0 39	23 27	0 8	20 22	1 3	2 13	0 45	19 11	0 36	13 56	16 36	14 56	15 21	15 40			n.a.
F 3	8 4	7 58	4 49	2 14	0 36	12 48	3 9	12 24	0 40	23 28	0 8	20 21	1 3	2 14	0 45	19 10	0 36	13 56	16 35	14 52	15 20	15 38			n.a.
S 4	7 42	3 59	4 23	1 18	0 48	13 14	3 14	12 38	0 40	23 28	0 8	20 20	1 3	2 15	0 45	19 10	0 36	13 55	16 35	14 48	15 19	15 37			n.a.
S 5	7 19	0s12	3 44	0 24	1 0	13 39	3 19	12 52	0 41	23 28	0 7	20 18	1 3	2 16	0 45	19 9	0 36	13 55	16 35	14 45	15 18	15 35			n.a.
M 6	6 56	4 25	2 54	0n29	1 13	14 4	3 25	13 6	0 41	23 29	0 7	20 17	1 3	2 17	0 45	19 9	0 36	13 54	16 35	14 43	15 17	15 33			n.a.
T 7	6 34	8 31	1 55	1 21	1 24	14 29	3 30	13 20	0 42	23 29	0 7	20 15	1 3	2 18	0 45	19 8	0 36	13 53	16 35	14 41	15 16	15 32			n.a.
W 8	6 11	12 18	0 50	2 10	1 36	14 53	3 35	13 34	0 42	23 30	0 7	20 14	1 3	2 19	0 45	19 8	0 36	13 53	16 35	14 41	15 15	15 30			n.a.
T 9	5 48	15 32	0n20	2 58	1 47	15 17	3 40	13 48	0 43	23 30	0 7	20 13	1 4	2 20	0 45	19 7	0 36	13 52	16 35	14 41	15 14	15 29			n.a.
F 10	5 25	18 2	1 30	3 43	1 58	15 40	3 45	14 1	0 43	23 30	0 7	20 11	1 4	2 21	0 45	19 7	0 36	13 51	16 35	14 41	15 13	15 27			n.a.
S 11	5 2	19 33	2 37	4 26	2 9	16 3	3 50	14 15	0 44	23 31	0 7	20 10	1 4	2 22	0 45	19 6	0 36	13 51	16 34	14 41	15 12	15 26			n.a.
S 12	4 38	19 57	3 35	5 6	2 19	16 25	3 55	14 28	0 44	23 31	0 7	20 8	1 4	2 23	0 45	19 6	0 36	13 50	16 34	14 41	15 11	15 24			n.a.
M13	4 15	19 7	4 23	5 44	2 28	16 47	4 0	14 42	0 45	23 31	0 7	20 7	1 4	2 24	0 45	19 5	0 36	13 49	16 34	14 41	15 10	15 23			n.a.
T 14	3 52	17 3	4 54	6 18	2 36	17 9	4 5	14 55	0 45	23 32	0 7	20 6	1 4	2 25	0 45	19 5	0 36	13 49	16 34	14 40	15 9	15 21			n.a.
W15	3 29	13 52	5 7	6 50	2 44	17 30	4 9	15 8	0 46	23 32	0 6	20 4	1 4	2 26	0 45	19 4	0 36	13 48	16 34	14 38	15 8	15 19			n.a.
T 16	3 5	9 46	5 0	7 18	2 51	17 50	4 14	15 21	0 46	23 32	0 6	20 3	1 4	2 27	0 45	19 4	0 36	13 48	16 34	14 36	15 7	15 18			n.a.
F 17	2 42	5 5	4 33	7 43	2 57	18 10	4 19	15 34	0 46	23 33	0 6	20 2	1 5	2 28	0 45	19 4	0 36	13 47	16 34	14 33	15 6	15 16			n.a.
S 18	2 18	0 8	3 48	8 5	3 2	18 30	4 23	15 47	0 47	23 33	0 6	20 0	1 5	2 29	0 45	19 3	0 36	13 46	16 34	14 31	15 5	15 15			n.a.
S 19	1 55	4n46	2 49	8 23	3 6	18 49	4 27	15 59	0 47	23 33	0 6	19 59	1 5	2 30	0 45	19 3	0 36	13 46	16 34	14 29	15 4	15 13			n.a.
M20	1 31	9 17	1 40	8 38	3 8	19 7	4 32	16 12	0 48	23 33	0 6	19 58	1 5	2 31	0 45	19 2	0 36	13 45	16 34	14 28	15 3	15 12			n.a.
T 21	1 8	13 10	0 28	8 50	3 10	19 25	4 36	16 24	0 48	23 34	0 6	19 57	1 5	2 32	0 45	19 2	0 36	13 45	16 34	14 28	15 2	15 10			n.a.
W22	0 44	16 16	0s44	8 58	3 10	19 43	4 40	16 36	0 49	23 34	0 6	19 55	1 5	2 33	0 45	19 1	0 36	13 44	16 34	14 28	15 1	15 8			n.a.
T 23	0 21	18 26	1 52	9 2	3 9	20 0	4 44	16 49	0 49	23 34	0 6	19 54	1 6	2 34	0 45	19 1	0 36	13 43	16 33	14 28	15 0	15 7			n.a.
F 24	0n 2	19 38	2 52	9 3	3 7	20 16	4 47	17 1	0 49	23 34	0 5	19 53	1 6	2 35	0 45	19 1	0 36	13 43	16 33	14 29	14 59	15 5			n.a.
S 25	0 26	19 52	3 43	9 0	3 3	20 31	4 51	17 13	0 50	23 35	0 5	19 52	1 6	2 36	0 45	19 0	0 36	13 42	16 33	14 29	14 57	15 4			n.a.
S 26	0 49	19 11	4 23	8 54	2 58	20 46	4 55	17 25	0 50	23 35	0 5	19 51	1 6	2 37	0 45	19 0	0 36	13 42	16 33	14 29	14 56	15 2			n.a.
M27	1 13	17 39	4 52	8 45	2 52	21 1	4 58	17 36	0 51	23 35	0 5	19 49	1 6	2 38	0 45	19 0	0 36	13 41	16 33	14 29	14 55	15 0			n.a.
T 28	1 36	15 22	5 8	8 32	2 45	21 14	5 1	17 48	0 51	23 35	0 5	19 48	1 6	2 39	0 45	18 59	0 36	13 41	16 33	14 28	14 54	14 59			n.a.
W29	1 59	12 27	5 11	8 16	2 36	21 27	5 4	17 59	0 51	23 35	0 5	19 47	1 6	2 40	0 45	18 59	0 36	13 40	16 33	14 27	14 53	14 57			n.a.
T 30	2 23	9 0	5 0	7 57	2 25	21 40	5 7	18 11	0 52	23 36	0 5	19 46	1 7	2 41	0 45	18 58	0 36	13 39	16 33	14 25	14 52	14 56			n.a.
F 31	2n46	5n 9	4s36	7n36	2n14	21n51	5n 9	18n22	0n52	23s36	0n 5	19s45	1s 7	2n42	0n45	18s58	0s36	13s39	16s33	14s23	14s51	14n54			n.a.

Julian Day Number = 1674730.5, Delta T = 03h18m39s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'52, Lahiri = - 5°42'52 Julian Calendar 1 March 128 BCE == Greg. Calendar 26 Feb. 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

APRIL 128 BCE (-127) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 24 31	7♈51'49	18♍16	13°R24	16♉53	19♉ 9	27♐ 4	7♒18	24°R56	8♒21	3♈44	8°R 4	9♏34	2♌23	n.a.	S 1
S 2	12 28 28	8°49'52	0♎46	12♈51	17°20	19°47	27° 7	7°23	24♍54	8°23	3°45	8♏ 0	9°31	2°30	n.a.	S 2
M 3	12 32 24	9°47'53	13°29	12°15	17°46	20°25	27°10	7°28	24°52	8°24	3°47	7°57	9°28	2°37	n.a.	M 3
T 4	12 36 21	10°45'53	26°25	11°38	18°11	21° 4	27°13	7°32	24°49	8°25	3°48	7°55	9°24	2°43	n.a.	T 4
W 5	12 40 17	11°43'51	9♏34	11° 0	18°33	21°42	27°16	7°37	24°47	8°27	3°50	7°D54	9°21	2°50	n.a.	W 5
T 6	12 44 14	12°41'47	22°56	10°22	18°54	22°20	27°18	7°41	24°44	8°28	3°51	7°55	9°18	2°57	n.a.	T 6
F 7	12 48 10	13°39'42	6♐30	9°44	19°13	22°58	27°20	7°45	24°42	8°29	3°52	7°56	9°15	3° 4	n.a.	F 7
S 8	12 52 7	14°37'36	20°16	9° 8	19°30	23°37	27°22	7°50	24°40	8°30	3°54	7°58	9°12	3°10	n.a.	S 8
S 9	12 56 3	15°35'28	4♑12	8°34	19°45	24°15	27°24	7°54	24°37	8°31	3°55	7°59	9° 9	3°17	n.a.	S 9
M10	13 0 0	16°33'19	18°19	8° 2	19°58	24°53	27°26	7°58	24°35	8°32	3°56	7°R59	9° 5	3°24	n.a.	M10
T 11	13 3 57	17°31'09	2♒35	7°33	20° 9	25°31	27°27	8° 2	24°33	8°34	3°58	7°59	9° 2	3°31	n.a.	T 11
W12	13 7 53	18°28'57	16°56	7° 7	20°17	26°10	27°29	8° 6	24°30	8°35	3°59	7°57	8°59	3°37	n.a.	W12
T 13	13 11 50	19°26'44	1♓20	6°45	20°24	26°48	27°30	8°10	24°28	8°36	4° 0	7°55	8°56	3°44	n.a.	T 13
F 14	13 15 46	20°24'30	15°42	6°26	20°28	27°26	27°31	8°14	24°26	8°37	4° 2	7°53	8°53	3°51	n.a.	F 14
S 15	13 19 43	21°22'14	29°57	6°12	20°R30	28° 4	27°31	8°17	24°24	8°38	4° 3	7°51	8°49	3°57	n.a.	S 15
S 16	13 23 39	22°19'57	14♈ 1	6° 3	20°30	28°42	27°32	8°21	24°21	8°39	4° 4	7°49	8°46	4° 4	n.a.	S 16
M17	13 27 36	23°17'39	27°48	5°58	20°27	29°21	27°32	8°25	24°19	8°40	4° 6	7°48	8°43	4°11	n.a.	M17
T 18	13 31 32	24°15'19	11♉17	5°D57	20°22	29°59	27°R32	8°28	24°17	8°40	4° 7	7°D48	8°40	4°18	n.a.	T 18
W19	13 35 29	25°12'58	24°26	6° 1	20°15	0♊37	27°32	8°31	24°15	8°41	4° 8	7°48	8°37	4°24	n.a.	W19
T 20	13 39 25	26°10'36	7♊16	6°10	20° 5	1°15	27°32	8°35	24°13	8°42	4°10	7°49	8°34	4°31	n.a.	T 20
F 21	13 43 22	27° 8'11	19°47	6°23	19°52	1°53	27°32	8°38	24°11	8°43	4°11	7°50	8°30	4°38	n.a.	F 21
S 22	13 47 19	28° 5'46	2♋ 3	6°40	19°38	2°31	27°31	8°41	24° 9	8°44	4°12	7°51	8°27	4°44	n.a.	S 22
S 23	13 51 15	29° 3'18	14° 7	7° 2	19°21	3° 9	27°30	8°44	24° 7	8°44	4°14	7°52	8°24	4°51	n.a.	S 23
M24	13 55 12	0♉ 0'50	26° 3	7°28	19° 1	3°48	27°29	8°47	24° 5	8°45	4°15	7°R52	8°21	4°58	n.a.	M24
T 25	13 59 8	0°58'20	7♌56	7°59	18°39	4°26	27°28	8°50	24° 3	8°46	4°16	7°52	8°18	5° 5	n.a.	T 25
W26	14 3 5	1°55'48	19°51	8°33	18°15	5° 4	27°27	8°52	24° 1	8°46	4°17	7°52	8°14	5°11	n.a.	W26
T 27	14 7 1	2°53'15	1♍52	9°11	17°49	5°42	27°25	8°55	24° 0	8°47	4°19	7°51	8°11	5°18	n.a.	T 27
F 28	14 10 58	3°50'40	14° 3	9°54	17°21	6°20	27°24	8°58	23°58	8°48	4°20	7°51	8° 8	5°25	n.a.	F 28
S 29	14 14 54	4°48'04	26°28	10°40	16°51	6°58	27°22	9° 0	23°56	8°48	4°21	7°50	8° 5	5°32	n.a.	S 29
S 30	14 18 51	5♉45'27	9♎ 8	11♈29	16♉20	7♊36	27♐20	9♒ 3	23♍54	8♒49	4♈22	7♏50	8♏ 2	5♌38	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 9	1n 2	3s59	7n12	2n 1	22n 2	5n12	18n33	0n53	23s36	0n 5	19s44	1s 7	2n43	0n45	18s58	0s36	13s38	16s33	14s21	14s50	14n53		n.a.
S 2	3 32	3s12	3 9	6 46	1 47	22 12	5 14	18 44	0 53	23 36	0 4	19 43	1 7	2 44	0 45	18 57	0 36	13 38	16 33	14 20	14 49	14 51		n.a.
M 3	3 55	7 22	2 10	6 19	1 33	22 22	5 16	18 55	0 53	23 36	0 4	19 42	1 7	2 45	0 45	18 57	0 36	13 37	16 33	14 19	14 48	14 49		n.a.
T 4	4 18	11 17	1 3	5 50	1 17	22 31	5 18	19 5	0 54	23 37	0 4	19 41	1 7	2 46	0 45	18 57	0 36	13 37	16 33	14 18	14 47	14 48		n.a.
W 5	4 41	14 42	0n 9	5 20	1 1	22 38	5 19	19 16	0 54	23 37	0 4	19 40	1 8	2 47	0 45	18 57	0 36	13 36	16 33	14 18	14 46	14 46		n.a.
T 6	5 4	17 24	1 22	4 50	0 45	22 45	5 20	19 26	0 54	23 37	0 4	19 39	1 8	2 48	0 45	18 56	0 36	13 36	16 33	14 18	14 45	14 44		n.a.
F 7	5 27	19 10	2 31	4 20	0 28	22 52	5 21	19 36	0 55	23 37	0 4	19 38	1 8	2 49	0 45	18 56	0 37	13 35	16 33	14 19	14 44	14 43		n.a.
S 8	5 50	19 49	3 32	3 50	0 11	22 57	5 21	19 46	0 55	23 37	0 4	19 37	1 8	2 50	0 45	18 56	0 37	13 35	16 34	14 19	14 43	14 41		n.a.
S 9	6 12	19 17	4 22	3 20	0s 6	23 1	5 22	19 56	0 55	23 37	0 4	19 36	1 8	2 51	0 45	18 55	0 37	13 34	16 34	14 20	14 42	14 40		n.a.
M10	6 35	17 32	4 57	2 52	0 23	23 5	5 21	20 6	0 56	23 38	0 3	19 35	1 9	2 52	0 45	18 55	0 37	13 34	16 34	14 20	14 41	14 38		n.a.
T 11	6 57	14 43	5 13	2 25	0 39	23 7	5 21	20 16	0 56	23 38	0 3	19 34	1 9	2 53	0 45	18 55	0 37	13 33	16 34	14 20	14 40	14 36		n.a.
W12	7 19	11 0	5 11	2 0	0 55	23 9	5 20	20 25	0 56	23 38	0 3	19 33	1 9	2 54	0 45	18 55	0 37	13 33	16 34	14 19	14 39	14 35		n.a.
T 13	7 42	6 37	4 49	1 37	1 11	23 9	5 19	20 35	0 57	23 38	0 3	19 32	1 9	2 55	0 45	18 54	0 37	13 32	16 34	14 18	14 38	14 33		n.a.
F 14	8 4	1 53	4 9	1 17	1 26	23 9	5 17	20 44	0 57	23 38	0 3	19 32	1 9	2 56	0 45	18 54	0 37	13 32	16 34	14 18	14 37	14 32		n.a.
S 15	8 26	2n56	3 14	0 58	1 40	23 7	5 15	20 53	0 57	23 38	0 3	19 31	1 9	2 56	0 45	18 54	0 37	13 31	16 34	14 17	14 36	14 30		n.a.
S 16	8 47	7 33	2 8	0 42	1 53	23 5	5 12	21 2	0 58	23 38	0 3	19 30	1 10	2 57	0 45	18 54	0 37	13 31	16 34	14 16	14 35	14 28		n.a.
M17	9 9	11 40	0 55	0 29	2 6	23 1	5 9	21 11	0 58	23 39	0 3	19 29	1 10	2 58	0 45	18 53	0 37	13 31	16 34	14 16	14 34	14 27		n.a.
T 18	9 30	15 5	0s19	0 18	2 17	22 56	5 5	21 19	0 58	23 39	0 2	19 29	1 10	2 59	0 45	18 53	0 37	13 30	16 34	14 16	14 33	14 25		n.a.
W19	9 52	17 38	1 31	0 10	2 28	22 50	5 1	21 28	0 58	23 39	0 2	19 28	1 10	3 0	0 45	18 53	0 37	13 30	16 34	14 16	14 32	14 23		n.a.
T 20	10 13	19 12	2 36	0 4	2 37	22 43	4 57	21 36	0 59	23 39	0 2	19 27	1 10	3 1	0 45	18 53	0 37	13 29	16 34	14 16	14 31	14 22		n.a.
F 21	10 34	19 47	3 32	0 2	2 46	22 34	4 51	21 44	0 59	23 39	0 2	19 26	1 11	3 1	0 45	18 53	0 37	13 29	16 35	14 17	14 30	14 20		n.a.
S 22	10 55	19 25	4 17	0 1	2 54	22 25	4 46	21 52	0 59	23 39	0 2	19 26	1 11	3 2	0 45	18 53	0 37	13 28	16 35	14 17	14 29	14 18		n.a.
S 23	11 16	18 9	4 50	0 4	3 0	22 14	4 39	22 0	1 0	23 39	0 2	19 25	1 11	3 3	0 45	18 52	0 37	13 28	16 35	14 17	14 28	14 17		n.a.
M24	11 36	16 6	5 10	0 9	3 6	22 2	4 32	22 7	1 0	23 39	0 2	19 25	1 11	3 4	0 45	18 52	0 37	13 28	16 35	14 17	14 27	14 15		n.a.
T 25	11 57	13 23	5 17	0 17	3 11	21 48	4 25	22 15	1 0	23 40	0 1	19 24	1 11	3 4	0 45	18 52	0 37	13 27	16 35	14 17	14 26	14 14		n.a.
W26	12 17	10 7	5 10	0 27	3 15	21 34	4 17	22 22	1 0	23 40	0 1	19 23	1 12	3 5	0 45	18 52	0 37	13 27	16 35	14 17	14 25	14 12		n.a.
T 27	12 37	6 25	4 49	0 39	3 18	21 18	4 8	22 29	1 1	23 40	0 1	19 23	1 12	3 6	0 45	18 52	0 37	13 27	16 35	14 17	14 24	14 10		n.a.
F 28	12 56	2 25	4 16	0 54	3 20	21 1	3 59	22 36	1 1	23 40	0 1	19 22	1 12	3 6	0 45	18 52	0 37	13 26	16 36	14 17	14 23	14 9		n.a.
S 29	13 16	1s47	3 30	1 11	3 21	20 43	3 49	22 43	1 1	23 40	0 1	19 22	1 12	3 7	0 45	18 52	0 37	13 26	16 36	14 17	14 22	14 7		n.a.
S 30	13n35	5s59	2s33	1n30	3s22	20n23	3n38	22n50	1n 1	23s40	0n 1	19s22	1s12	3n 8	0n45	18s51	0s37	13s26	16s36	14s17	14s21	14n 5		n.a.

Julian Day Number = 1674761.5, Delta T = 03h18m38s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'48, Lahiri = - 5°42'48 Julian Calendar 1 Apr. 128 BCE == Greg. Calendar 29 March 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

MAY 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 22 48	6♉42'49	22♎ 6	12♈23	15°R47	8♊14	27°R17	9♒ 5	23°R53	8♒49	4♈23	7°R50	7♏59	5♌45	n.a.	M 1
T 2	14 26 44	7°40'09	5♏21	13°19	15♉12	8°52	27♐15	9° 7	23♍51	8°49	4°25	7♏50	7°55	5°52	n.a.	T 2
W 3	14 30 41	8°37'29	18°54	14°19	14°37	9°30	27°12	9° 9	23°49	8°50	4°26	7°50	7°52	5°58	n.a.	W 3
T 4	14 34 37	9°34'48	2♐41	15°23	14° 0	10° 8	27° 9	9°11	23°48	8°50	4°27	7°50	7°49	6° 5	n.a.	T 4
F 5	14 38 34	10°32'06	16°42	16°29	13°23	10°46	27° 6	9°13	23°46	8°51	4°28	7°50	7°46	6°12	n.a.	F 5
S 6	14 42 30	11°29'23	0♑51	17°39	12°45	11°24	27° 3	9°15	23°45	8°51	4°29	7°49	7°43	6°19	n.a.	S 6
S 7	14 46 27	12°26'40	15° 6	18°52	12° 8	12° 2	27° 0	9°17	23°44	8°51	4°30	7°49	7°40	6°25	n.a.	S 7
M 8	14 50 23	13°23'56	29°23	20° 8	11°30	12°40	26°56	9°18	23°42	8°51	4°32	7°49	7°36	6°32	n.a.	M 8
T 9	14 54 20	14°21'12	13♒38	21°27	10°52	13°18	26°53	9°20	23°41	8°52	4°33	7°D48	7°33	6°39	n.a.	T 9
W10	14 58 17	15°18'27	27°51	22°48	10°16	13°56	26°49	9°21	23°40	8°52	4°34	7°49	7°30	6°46	n.a.	W10
T 11	15 2 13	16°15'41	11♓56	24°13	9°39	14°34	26°45	9°23	23°38	8°52	4°35	7°49	7°27	6°52	n.a.	T 11
F 12	15 6 10	17°12'56	25°54	25°41	9° 4	15°12	26°40	9°24	23°37	8°52	4°36	7°50	7°24	6°59	n.a.	F 12
S 13	15 10 6	18°10'09	9♈42	27°11	8°30	15°50	26°36	9°25	23°36	8°52	4°37	7°51	7°20	7° 6	n.a.	S 13
S 14	15 14 3	19° 7'23	23°18	28°45	7°58	16°28	26°32	9°26	23°35	8°52	4°38	7°51	7°17	7°12	n.a.	S 14
M15	15 17 59	20° 4'36	6♉41	0♉21	7°27	17° 6	26°27	9°27	23°34	8°R52	4°39	7°R52	7°14	7°19	n.a.	M15
T 16	15 21 56	21° 1'48	19°50	2° 0	6°58	17°44	26°22	9°28	23°33	8°52	4°40	7°51	7°11	7°26	n.a.	T 16
W17	15 25 52	21°59'00	2♊44	3°41	6°30	18°22	26°17	9°28	23°32	8°52	4°41	7°50	7° 8	7°33	n.a.	W17
T 18	15 29 49	22°56'11	15°23	5°26	6° 5	19° 0	26°12	9°29	23°31	8°52	4°42	7°49	7° 5	7°39	n.a.	T 18
F 19	15 33 46	23°53'22	27°48	7°13	5°42	19°38	26° 7	9°30	23°30	8°52	4°43	7°47	7° 1	7°46	n.a.	F 19
S 20	15 37 42	24°50'32	10♋ 1	9° 3	5°21	20°16	26° 1	9°30	23°29	8°52	4°44	7°44	6°58	7°53	n.a.	S 20
S 21	15 41 39	25°47'42	22° 4	10°55	5° 2	20°54	25°56	9°30	23°29	8°52	4°45	7°42	6°55	7°59	n.a.	S 21
M22	15 45 35	26°44'51	4♌ 0	12°50	4°45	21°32	25°50	9°31	23°28	8°51	4°46	7°40	6°52	8° 6	n.a.	M22
T 23	15 49 32	27°41'59	15°53	14°48	4°31	22°10	25°44	9°31	23°27	8°51	4°47	7°38	6°49	8°13	n.a.	T 23
W24	15 53 28	28°39'07	27°47	16°47	4°20	22°48	25°38	9°R31	23°27	8°51	4°48	7°D38	6°46	8°20	n.a.	W24
T 25	15 57 25	29°36'14	9♍48	18°49	4°10	23°26	25°32	9°31	23°26	8°51	4°49	7°38	6°42	8°26	n.a.	T 25
F 26	16 1 21	0♊33'21	21°58	20°53	4° 3	24° 4	25°26	9°31	23°26	8°50	4°49	7°39	6°39	8°33	n.a.	F 26
S 27	16 5 18	1°30'27	4♎24	22°58	3°58	24°41	25°19	9°30	23°25	8°50	4°50	7°41	6°36	8°40	n.a.	S 27
S 28	16 9 15	2°27'32	17° 9	25° 5	3°D56	25°19	25°13	9°30	23°25	8°50	4°51	7°42	6°33	8°47	n.a.	S 28
M29	16 13 11	3°24'38	0♏15	27°13	3°56	25°57	25° 6	9°30	23°24	8°49	4°52	7°43	6°30	8°53	n.a.	M29
T 30	16 17 8	4°21'43	13°44	29°22	3°59	26°35	25° 0	9°29	23°24	8°49	4°53	7°R43	6°26	9° 0	n.a.	T 30
W31	16 21 4	5♊18'48	27♏36	1♊32	4♉ 3	27♊13	24♐53	9♒28	23♍24	8♒48	4♈54	7♏42	6♏23	9♌ 7	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	13n55	10s 2	1s26	1n51	3s22	20n 3	3n27	22n56	1n 2	23s40	0n 1	19s21	1s13	3n 8	0n45	18s51	0s37	13s25	16s36	14s17	14s19	14n 4			n.a.
T 2	14 13	13 40	0 14	2 14	3 21	19 42	3 16	23 3	1 2	23 40	0 0	19 21	1 13	3 9	0 45	18 51	0 37	13 25	16 36	14 17	14 18	14 2			n.a.
W 3	14 32	16 40	1n 1	2 39	3 19	19 20	3 4	23 9	1 2	23 40	0 0	19 20	1 13	3 10	0 45	18 51	0 37	13 25	16 36	14 17	14 17	14 0			n.a.
T 4	14 51	18 45	2 14	3 6	3 16	18 57	2 52	23 15	1 2	23 40	0 0	19 20	1 13	3 10	0 45	18 51	0 37	13 24	16 37	14 17	14 16	13 59			n.a.
F 5	15 9	19 44	3 19	3 35	3 13	18 33	2 39	23 21	1 2	23 41	0 0	19 20	1 13	3 11	0 44	18 51	0 37	13 24	16 37	14 17	14 15	13 57			n.a.
S 6	15 27	19 29	4 13	4 6	3 9	18 9	2 26	23 26	1 3	23 41	0s 0	19 19	1 14	3 11	0 44	18 51	0 37	13 24	16 37	14 16	14 14	13 55			n.a.
S 7	15 45	18 0	4 52	4 38	3 5	17 45	2 12	23 32	1 3	23 41	0 0	19 19	1 14	3 12	0 44	18 51	0 37	13 23	16 37	14 16	14 13	13 54			n.a.
M 8	16 2	15 24	5 13	5 11	2 59	17 20	1 59	23 37	1 3	23 41	0 0	19 19	1 14	3 12	0 44	18 51	0 37	13 23	16 37	14 16	14 12	13 52			n.a.
T 9	16 20	11 53	5 15	5 46	2 54	16 55	1 45	23 42	1 3	23 41	0 1	19 19	1 14	3 13	0 44	18 51	0 38	13 23	16 37	14 16	14 11	13 50			n.a.
W10	16 37	7 42	4 58	6 23	2 47	16 30	1 31	23 47	1 4	23 41	0 1	19 18	1 14	3 13	0 44	18 51	0 38	13 23	16 38	14 16	14 10	13 49			n.a.
T 11	16 53	3 7	4 22	7 1	2 40	16 5	1 17	23 52	1 4	23 41	0 1	19 18	1 15	3 14	0 44	18 51	0 38	13 22	16 38	14 16	14 9	13 47			n.a.
F 12	17 10	1n35	3 32	7 40	2 33	15 40	1 3	23 56	1 4	23 41	0 1	19 18	1 15	3 14	0 44	18 51	0 38	13 22	16 38	14 17	14 8	13 45			n.a.
S 13	17 26	6 10	2 30	8 20	2 25	15 16	0 49	24 0	1 4	23 41	0 1	19 18	1 15	3 15	0 44	18 51	0 38	13 22	16 38	14 17	14 7	13 44			n.a.
S 14	17 42	10 23	1 20	9 2	2 16	14 52	0 35	24 5	1 4	23 41	0 1	19 18	1 15	3 15	0 44	18 51	0 38	13 22	16 39	14 17	14 6	13 42			n.a.
M15	17 58	14 0	0 7	9 44	2 7	14 29	0 21	24 9	1 4	23 41	0 1	19 18	1 15	3 15	0 44	18 51	0 38	13 22	16 39	14 17	14 5	13 40			n.a.
T 16	18 13	16 50	1s 6	10 28	1 58	14 6	0 7	24 13	1 5	23 41	0 2	19 18	1 16	3 16	0 44	18 51	0 38	13 21	16 39	14 17	14 4	13 39			n.a.
W17	18 28	18 46	2 13	11 12	1 48	13 45	0s 6	24 16	1 5	23 41	0 2	19 18	1 16	3 16	0 44	18 51	0 38	13 21	16 39	14 17	14 3	13 37			n.a.
T 18	18 43	19 42	3 13	11 57	1 38	13 24	0 19	24 20	1 5	23 41	0 2	19 18	1 16	3 16	0 44	18 51	0 38	13 21	16 39	14 16	14 2	13 35			n.a.
F 19	18 57	19 40	4 2	12 42	1 28	13 4	0 32	24 23	1 5	23 41	0 2	19 18	1 16	3 17	0 44	18 51	0 38	13 21	16 40	14 16	14 1	13 34			n.a.
S 20	19 11	18 41	4 39	13 28	1 17	12 45	0 45	24 26	1 5	23 41	0 2	19 18	1 16	3 17	0 44	18 51	0 38	13 21	16 40	14 15	14 0	13 32			n.a.
S 21	19 25	16 53	5 3	14 14	1 6	12 27	0 57	24 29	1 6	23 41	0 2	19 18	1 17	3 17	0 44	18 51	0 38	13 21	16 40	14 14	13 59	13 30			n.a.
M22	19 39	14 23	5 14	15 0	0 55	12 11	1 8	24 32	1 6	23 41	0 3	19 18	1 17	3 18	0 44	18 51	0 38	13 20	16 40	14 13	13 58	13 29			n.a.
T 23	19 52	11 18	5 12	15 46	0 44	11 55	1 20	24 34	1 6	23 41	0 3	19 18	1 17	3 18	0 44	18 51	0 38	13 20	16 41	14 13	13 56	13 27			n.a.
W24	20 5	7 45	4 56	16 32	0 32	11 41	1 31	24 37	1 6	23 41	0 3	19 19	1 17	3 18	0 44	18 52	0 38	13 20	16 41	14 13	13 55	13 25			n.a.
T 25	20 18	3 52	4 27	17 17	0 21	11 28	1 41	24 39	1 6	23 41	0 3	19 19	1 17	3 18	0 44	18 52	0 38	13 20	16 41	14 13	13 54	13 23			n.a.
F 26	20 30	0s14	3 46	18 1	0 10	11 16	1 51	24 41	1 6	23 41	0 3	19 19	1 18	3 18	0 44	18 52	0 38	13 20	16 42	14 13	13 53	13 22			n.a.
S 27	20 42	4 25	2 53	18 45	0n 1	11 5	2 1	24 42	1 6	23 41	0 3	19 19	1 18	3 19	0 44	18 52	0 38	13 20	16 42	14 14	13 52	13 20			n.a.
S 28	20 53	8 31	1 51	19 27	0 12	10 56	2 10	24 44	1 7	23 41	0 4	19 20	1 18	3 19	0 44	18 52	0 38	13 20	16 42	14 14	13 51	13 18			n.a.
M29	21 4	12 19	0 41	20 8	0 23	10 48	2 19	24 45	1 7	23 41	0 4	19 20	1 18	3 19	0 44	18 52	0 38	13 20	16 42	14 14	13 50	13 17			n.a.
T 30	21 15	15 37	0n33	20 47	0 33	10 40	2 27	24 47	1 7	23 41	0 4	19 20	1 18	3 19	0 44	18 52	0 38	13 20	16 43	14 14	13 49	13 15			n.a.
W31	21n26	18s 7	1n47	21n24	0n43	10n35	2s35	24n48	1n 7	23s40	0s 4	19s21	1s19	3n19	0n43	18s53	0s38	13s20	16s43	14s14	13s48	13n13			n.a.

Julian Day Number = 1674791.5, Delta T = 03h18m38s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'44, Lahiri = - 5°42'44 Julian Calendar 1 May 128 BCE == Greg. Calendar 28 Apr. 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

JUNE 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 25 1	6♊15'53	11♐48	3♊43	4♉10	27♊51	24°R46	9°R28	23°R24	8°R48	4♈54	7°R40	6♏20	9♌13	n.a.	T 1
F 2	16 28 57	7°12'58	26°16	5°53	4°19	28°29	24♐39	9♒27	23♍23	8♒47	4°55	7♏36	6°17	9°20	n.a.	F 2
S 3	16 32 54	8°10'04	10♑53	8° 4	4°30	29° 7	24°32	9°26	23°23	8°47	4°56	7°32	6°14	9°27	n.a.	S 3
S 4	16 36 51	9° 7'09	25°32	10°14	4°43	29°45	24°25	9°25	23°D23	8°46	4°56	7°28	6°11	9°34	n.a.	S 4
M 5	16 40 47	10° 4'15	10♒ 8	12°23	4°58	0♋23	24°18	9°24	23°23	8°45	4°57	7°24	6° 7	9°40	n.a.	M 5
T 6	16 44 44	11° 1'21	24°34	14°32	5°16	1° 1	24°10	9°22	23°23	8°45	4°58	7°22	6° 4	9°47	n.a.	T 6
W 7	16 48 40	11°58'27	8♓47	16°39	5°34	1°39	24° 3	9°21	23°23	8°44	4°58	7°D21	6° 1	9°54	n.a.	W 7
T 8	16 52 37	12°55'34	22°46	18°45	5°55	2°17	23°56	9°20	23°24	8°43	4°59	7°21	5°58	10° 1	n.a.	T 8
F 9	16 56 33	13°52'42	6♈28	20°50	6°18	2°54	23°48	9°18	23°24	8°42	5° 0	7°22	5°55	10° 7	n.a.	F 9
S 10	17 0 30	14°49'50	19°55	22°54	6°42	3°32	23°41	9°17	23°24	8°42	5° 0	7°23	5°51	10°14	n.a.	S 10
S 11	17 4 26	15°46'59	3♉ 9	24°56	7° 8	4°10	23°33	9°15	23°24	8°41	5° 1	7°R24	5°48	10°21	n.a.	S 11
M12	17 8 23	16°44'08	16° 8	26°56	7°35	4°48	23°25	9°13	23°25	8°40	5° 1	7°24	5°45	10°27	n.a.	M12
T 13	17 12 20	17°41'17	28°56	28°54	8° 4	5°26	23°18	9°11	23°25	8°39	5° 2	7°22	5°42	10°34	n.a.	T 13
W14	17 16 16	18°38'28	11♊32	0♋51	8°35	6° 4	23°10	9° 9	23°26	8°38	5° 3	7°18	5°39	10°41	n.a.	W14
T 15	17 20 13	19°35'38	23°58	2°46	9° 6	6°42	23° 2	9° 7	23°26	8°37	5° 3	7°12	5°36	10°48	n.a.	T 15
F 16	17 24 9	20°32'50	6♋13	4°39	9°40	7°20	22°55	9° 5	23°27	8°36	5° 4	7° 5	5°32	10°54	n.a.	F 16
S 17	17 28 6	21°30'01	18°19	6°31	10°14	7°58	22°47	9° 3	23°28	8°35	5° 4	6°57	5°29	11° 1	n.a.	S 17
S 18	17 32 2	22°27'13	0♌18	8°20	10°50	8°36	22°39	9° 0	23°28	8°34	5° 4	6°49	5°26	11° 8	n.a.	S 18
M19	17 35 59	23°24'25	12°12	10° 8	11°27	9°14	22°31	8°58	23°29	8°33	5° 5	6°42	5°23	11°15	n.a.	M19
T 20	17 39 55	24°21'38	24° 4	11°54	12° 5	9°52	22°24	8°56	23°30	8°32	5° 5	6°36	5°20	11°21	n.a.	T 20
W21	17 43 52	25°18'51	5♍56	13°38	12°44	10°30	22°16	8°53	23°31	8°31	5° 6	6°32	5°17	11°28	n.a.	W21
T 22	17 47 49	26°16'04	17°54	15°20	13°24	11° 8	22° 8	8°50	23°32	8°30	5° 6	6°30	5°13	11°35	n.a.	T 22
F 23	17 51 45	27°13'18	0♎ 2	17° 0	14° 5	11°46	22° 0	8°48	23°32	8°29	5° 6	6°D29	5°10	11°41	n.a.	F 23
S 24	17 55 42	28°10'33	12°26	18°39	14°47	12°24	21°53	8°45	23°33	8°28	5° 7	6°30	5° 7	11°48	n.a.	S 24
S 25	17 59 38	29° 7'47	25° 9	20°16	15°31	13° 2	21°45	8°42	23°35	8°27	5° 7	6°31	5° 4	11°55	n.a.	S 25
M26	18 3 35	0♋ 5'03	8♏16	21°51	16°15	13°40	21°38	8°39	23°36	8°26	5° 7	6°R32	5° 1	12° 2	n.a.	M26
T 27	18 7 31	1° 2'19	21°50	23°24	17° 0	14°18	21°30	8°36	23°37	8°24	5° 7	6°30	4°57	12° 8	n.a.	T 27
W28	18 11 28	1°59'36	5♐51	24°55	17°45	14°56	21°23	8°33	23°38	8°23	5° 8	6°27	4°54	12°15	n.a.	W28
T 29	18 15 24	2°56'53	20°18	26°24	18°32	15°34	21°15	8°29	23°39	8°22	5° 8	6°22	4°51	12°22	n.a.	T 29
F 30	18 19 21	3♋54'11	5♑ 6	27♋52	19♉20	16♋12	21♐ 8	8♒26	23♍41	8♒21	5♈ 8	6♏15	4♏48	12♌28	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	21n36	19s33	2n56	21n59	0n52	10n30	2s43	24n49	1n 7	23s40	0s 4	19s21	1s19	3n19	0n43	18s53	0s38	13s20	16s43	14s13	13s47	13n12		n.a.	T 1
F 2	21 46	19 45	3 55	22 32	1 1	10 26	2 50	24 49	1 7	23 40	0 4	19 21	1 19	3 19	0 43	18 53	0 38	13 20	16 43	14 12	13 46	13 10		n.a.	F 2
S 3	21 55	18 37	4 39	23 2	1 9	10 24	2 57	24 50	1 7	23 40	0 4	19 22	1 19	3 19	0 43	18 53	0 38	13 19	16 44	14 11	13 45	13 8		n.a.	S 3
S 4	22 4	16 16	5 5	23 30	1 16	10 22	3 3	24 50	1 8	23 40	0 5	19 22	1 19	3 19	0 43	18 53	0 38	13 19	16 44	14 9	13 44	13 6		n.a.	S 4
M 5	22 13	12 54	5 12	23 55	1 23	10 22	3 9	24 50	1 8	23 40	0 5	19 23	1 20	3 19	0 43	18 53	0 38	13 19	16 44	14 8	13 43	13 5		n.a.	M 5
T 6	22 21	8 48	4 58	24 17	1 29	10 22	3 14	24 50	1 8	23 40	0 5	19 23	1 20	3 19	0 43	18 54	0 38	13 19	16 45	14 7	13 42	13 3		n.a.	T 6
W 7	22 29	4 15	4 26	24 36	1 35	10 23	3 20	24 50	1 8	23 40	0 5	19 24	1 20	3 19	0 43	18 54	0 38	13 19	16 45	14 7	13 41	13 1		n.a.	W 7
T 8	22 36	0n27	3 39	24 53	1 40	10 26	3 24	24 49	1 8	23 39	0 5	19 25	1 20	3 19	0 43	18 54	0 38	13 20	16 45	14 7	13 40	13 0		n.a.	T 8
F 9	22 43	5 3	2 40	25 7	1 44	10 29	3 29	24 49	1 8	23 39	0 5	19 25	1 20	3 18	0 43	18 54	0 39	13 20	16 46	14 7	13 38	12 58		n.a.	F 9
S 10	22 50	9 19	1 34	25 18	1 47	10 33	3 33	24 48	1 8	23 39	0 6	19 26	1 21	3 18	0 43	18 55	0 39	13 20	16 46	14 8	13 37	12 56		n.a.	S 10
S 11	22 56	13 4	0 23	25 26	1 50	10 38	3 37	24 47	1 8	23 39	0 6	19 26	1 21	3 18	0 43	18 55	0 39	13 20	16 46	14 8	13 36	12 54		n.a.	S 11
M12	23 2	16 6	0s47	25 32	1 52	10 44	3 40	24 46	1 8	23 39	0 6	19 27	1 21	3 18	0 43	18 55	0 39	13 20	16 46	14 8	13 35	12 53		n.a.	M12
T 13	23 8	18 17	1 54	25 35	1 53	10 50	3 44	24 44	1 8	23 38	0 6	19 28	1 21	3 18	0 43	18 55	0 39	13 20	16 47	14 8	13 34	12 51		n.a.	T 13
W14	23 13	19 33	2 54	25 36	1 54	10 57	3 46	24 43	1 9	23 38	0 6	19 29	1 21	3 18	0 43	18 56	0 39	13 20	16 47	14 6	13 33	12 49		n.a.	W14
T 15	23 18	19 49	3 45	25 34	1 54	11 5	3 49	24 41	1 9	23 38	0 6	19 29	1 22	3 17	0 43	18 56	0 39	13 20	16 47	14 4	13 32	12 48		n.a.	T 15
F 16	23 22	19 9	4 25	25 31	1 53	11 13	3 51	24 39	1 9	23 38	0 7	19 30	1 22	3 17	0 43	18 56	0 39	13 20	16 48	14 2	13 31	12 46		n.a.	F 16
S 17	23 26	17 37	4 52	25 24	1 52	11 22	3 53	24 37	1 9	23 37	0 7	19 31	1 22	3 17	0 43	18 56	0 39	13 20	16 48	13 59	13 30	12 44		n.a.	S 17
S 18	23 29	15 20	5 6	25 16	1 50	11 31	3 55	24 34	1 9	23 37	0 7	19 32	1 22	3 16	0 43	18 57	0 39	13 20	16 48	13 57	13 29	12 42		n.a.	S 18
M19	23 33	12 26	5 6	25 6	1 48	11 41	3 57	24 32	1 9	23 37	0 7	19 32	1 22	3 16	0 43	18 57	0 39	13 20	16 49	13 54	13 28	12 41		n.a.	M19
T 20	23 35	9 2	4 54	24 54	1 45	11 51	3 58	24 29	1 9	23 36	0 7	19 33	1 23	3 16	0 43	18 57	0 39	13 21	16 49	13 52	13 27	12 39		n.a.	T 20
W21	23 37	5 17	4 28	24 41	1 41	12 2	3 59	24 26	1 9	23 36	0 7	19 34	1 23	3 15	0 43	18 58	0 39	13 21	16 49	13 51	13 26	12 37		n.a.	W21
T 22	23 39	1 17	3 51	24 25	1 37	12 13	4 0	24 23	1 9	23 36	0 8	19 35	1 23	3 15	0 43	18 58	0 39	13 21	16 50	13 50	13 25	12 35		n.a.	T 22
F 23	23 41	2s49	3 3	24 8	1 32	12 25	4 0	24 20	1 9	23 36	0 8	19 36	1 23	3 14	0 42	18 58	0 39	13 21	16 50	13 50	13 23	12 34		n.a.	F 23
S 24	23 42	6 53	2 6	23 50	1 27	12 37	4 1	24 16	1 9	23 35	0 8	19 37	1 23	3 14	0 42	18 59	0 39	13 21	16 50	13 50	13 22	12 32		n.a.	S 24
S 25	23 42	10 47	1 1	23 31	1 22	12 49	4 1	24 13	1 9	23 35	0 8	19 38	1 24	3 14	0 42	18 59	0 39	13 21	16 51	13 51	13 21	12 30		n.a.	S 25
M26	23 42	14 16	0n 9	23 10	1 16	13 2	4 1	24 9	1 9	23 35	0 8	19 39	1 24	3 13	0 42	18 59	0 39	13 22	16 51	13 51	13 20	12 28		n.a.	M26
T 27	23 42	17 7	1 21	22 48	1 10	13 15	4 1	24 5	1 9	23 34	0 8	19 40	1 24	3 13	0 42	19 0	0 39	13 22	16 51	13 50	13 19	12 27		n.a.	T 27
W28	23 42	19 3	2 30	22 25	1 3	13 28	4 0	24 1	1 10	23 34	0 8	19 41	1 24	3 12	0 42	19 0	0 39	13 22	16 52	13 49	13 18	12 25		n.a.	W28
T 29	23 41	19 49	3 32	22 1	0 56	13 42	4 0	23 56	1 10	23 34	0 9	19 42	1 24	3 12	0 42	19 0	0 39	13 22	16 52	13 48	13 17	12 23		n.a.	T 29
F 30	23n39	19s16	4n21	21n37	0n48	13n55	3s59	23n52	1n10	23s33	0s 9	19s43	1s24	3n11	0n42	19s 1	0s39	13s22	16s52	13s45	13s16	12n21		n.a.	F 30

Julian Day Number = 1674822.5, Delta T = 03h18m37s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'40, Lahiri = - 5°42'39 Julian Calendar 1 June 128 BCE == Greg. Calendar 29 May 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

JULY 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 23 18	4♋51'31	20♑ 6	29♋18	20♉ 8	16♋50	21°R 0	8°R23	23♍42	8°R19	5♈ 8	6°R 6	4♏45	12♌35	n.a.	S 1
S 2	18 27 14	5°48'51	5♒10	0♌42	20°57	17°28	20♐53	8♒19	23°43	8♒18	5° 8	5♏58	4°42	12°42	n.a.	S 2
M 3	18 31 11	6°46'12	20° 8	2° 3	21°47	18° 6	20°46	8°16	23°45	8°17	5° 9	5°50	4°38	12°49	n.a.	M 3
T 4	18 35 7	7°43'35	4♓51	3°23	22°37	18°44	20°39	8°12	23°46	8°15	5° 9	5°44	4°35	12°55	n.a.	T 4
W 5	18 39 4	8°40'59	19°15	4°41	23°28	19°22	20°32	8° 9	23°48	8°14	5° 9	5°40	4°32	13° 2	n.a.	W 5
T 6	18 43 0	9°38'24	3♈15	5°57	24°20	20° 0	20°25	8° 5	23°49	8°13	5° 9	5°39	4°29	13° 9	n.a.	T 6
F 7	18 46 57	10°35'51	16°54	7°11	25°12	20°38	20°18	8° 1	23°51	8°11	5° 9	5°D39	4°26	13°16	n.a.	F 7
S 8	18 50 54	11°33'19	0♉11	8°22	26° 5	21°16	20°11	7°58	23°53	8°10	5° 9	5°R39	4°23	13°22	n.a.	S 8
S 9	18 54 50	12°30'49	13° 9	9°32	26°59	21°54	20° 5	7°54	23°55	8° 8	5°R 9	5°39	4°19	13°29	n.a.	S 9
M10	18 58 47	13°28'20	25°53	10°38	27°53	22°32	19°58	7°50	23°56	8° 7	5° 9	5°37	4°16	13°36	n.a.	M10
T 11	19 2 43	14°25'52	8♊24	11°43	28°48	23°10	19°52	7°46	23°58	8° 5	5° 9	5°33	4°13	13°42	n.a.	T 11
W12	19 6 40	15°23'26	20°44	12°45	29°43	23°49	19°45	7°42	24° 0	8° 4	5° 9	5°26	4°10	13°49	n.a.	W12
T 13	19 10 36	16°21'02	2♋56	13°44	0♊39	24°27	19°39	7°38	24° 2	8° 3	5° 9	5°17	4° 7	13°56	n.a.	T 13
F 14	19 14 33	17°18'39	15° 1	14°40	1°35	25° 5	19°33	7°34	24° 4	8° 1	5° 9	5° 5	4° 3	14° 3	n.a.	F 14
S 15	19 18 29	18°16'17	27° 1	15°34	2°31	25°43	19°27	7°29	24° 6	8° 0	5° 8	4°52	4° 0	14° 9	n.a.	S 15
S 16	19 22 26	19°13'56	8♌55	16°24	3°29	26°21	19°21	7°25	24° 8	7°58	5° 8	4°39	3°57	14°16	n.a.	S 16
M17	19 26 23	20°11'37	20°47	17°12	4°26	26°59	19°16	7°21	24°10	7°56	5° 8	4°26	3°54	14°23	n.a.	M17
T 18	19 30 19	21° 9'19	2♍38	17°55	5°24	27°38	19°10	7°17	24°12	7°55	5° 8	4°16	3°51	14°29	n.a.	T 18
W19	19 34 16	22° 7'02	14°30	18°35	6°23	28°16	19° 5	7°12	24°14	7°53	5° 8	4° 8	3°48	14°36	n.a.	W19
T 20	19 38 12	23° 4'47	26°27	19°12	7°21	28°54	19° 0	7° 8	24°17	7°52	5° 8	4° 3	3°44	14°43	n.a.	T 20
F 21	19 42 9	24° 2'33	8♎33	19°44	8°21	29°32	18°54	7° 4	24°19	7°50	5° 7	4° 1	3°41	14°50	n.a.	F 21
S 22	19 46 5	25° 0'20	20°53	20°12	9°20	0♌10	18°50	6°59	24°21	7°49	5° 7	4°D 0	3°38	14°56	n.a.	S 22
S 23	19 50 2	25°58'08	3♏32	20°35	10°20	0°49	18°45	6°55	24°24	7°47	5° 7	4°R 0	3°35	15° 3	n.a.	S 23
M24	19 53 58	26°55'58	16°34	20°54	11°20	1°27	18°40	6°50	24°26	7°45	5° 6	3°59	3°32	15°10	n.a.	M24
T 25	19 57 55	27°53'49	0♐ 4	21° 7	12°21	2° 5	18°36	6°46	24°29	7°44	5° 6	3°58	3°29	15°17	n.a.	T 25
W26	20 1 52	28°51'41	14° 3	21°16	13°22	2°43	18°31	6°41	24°31	7°42	5° 6	3°53	3°25	15°23	n.a.	W26
T 27	20 5 48	29°49'35	28°32	21°R18	14°24	3°22	18°27	6°37	24°34	7°41	5° 5	3°47	3°22	15°30	n.a.	T 27
F 28	20 9 45	0♌47'30	13♑26	21°16	15°25	4° 0	18°23	6°32	24°36	7°39	5° 5	3°38	3°19	15°37	n.a.	F 28
S 29	20 13 41	1°45'27	28°38	21° 7	16°27	4°38	18°20	6°28	24°39	7°37	5° 5	3°27	3°16	15°43	n.a.	S 29
S 30	20 17 38	2°43'26	13♒57	20°52	17°30	5°17	18°16	6°23	24°41	7°36	5° 4	3°16	3°13	15°50	n.a.	S 30
M31	20 21 34	3♌41'26	29♒12	20♌31	18♊32	5♌55	18♐13	6♒19	24♍44	7♒34	5♈ 4	3♏ 6	3♏ 9	15♌57	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n37	17s22	4n53	21n11	0n40	14n 9	3s58	23n47	1n10	23s33	0s 9	19s44	1s25	3n10	0n42	19s 1	0s39	13s23	16s53	13s42	13s15	12n20		n.a.
S 2	23 35	14 16	5 4	20 45	0 32	14 23	3 57	23 42	1 10	23 32	0 9	19 45	1 25	3 10	0 42	19 1	0 39	13 23	16 53	13 39	13 14	12 18		n.a.
M 3	23 32	10 16	4 55	20 19	0 24	14 37	3 56	23 37	1 10	23 32	0 9	19 46	1 25	3 9	0 42	19 2	0 39	13 23	16 53	13 37	13 13	12 16		n.a.
T 4	23 29	5 43	4 26	19 51	0 15	14 51	3 54	23 32	1 10	23 32	0 9	19 47	1 25	3 9	0 42	19 2	0 39	13 23	16 54	13 35	13 12	12 14		n.a.
W 5	23 25	0 55	3 41	19 24	0 6	15 5	3 53	23 27	1 10	23 31	0 9	19 48	1 25	3 8	0 42	19 2	0 39	13 24	16 54	13 34	13 11	12 13		n.a.
T 6	23 21	3n48	2 44	18 56	0s 4	15 20	3 51	23 21	1 10	23 31	0 10	19 49	1 25	3 7	0 42	19 3	0 39	13 24	16 54	13 33	13 9	12 11		n.a.
F 7	23 17	8 13	1 38	18 28	0 13	15 34	3 49	23 15	1 10	23 31	0 10	19 51	1 26	3 7	0 42	19 3	0 39	13 24	16 55	13 33	13 8	12 9		n.a.
S 8	23 12	12 7	0 29	18 0	0 23	15 48	3 48	23 9	1 10	23 30	0 10	19 52	1 26	3 6	0 42	19 4	0 39	13 25	16 55	13 33	13 7	12 7		n.a.
S 9	23 7	15 20	0s40	17 32	0 33	16 3	3 45	23 3	1 10	23 30	0 10	19 53	1 26	3 5	0 42	19 4	0 39	13 25	16 55	13 33	13 6	12 6		n.a.
M10	23 1	17 44	1 45	17 4	0 44	16 17	3 43	22 57	1 10	23 30	0 10	19 54	1 26	3 4	0 42	19 4	0 39	13 25	16 56	13 33	13 5	12 4		n.a.
T 11	22 55	19 15	2 45	16 36	0 54	16 31	3 41	22 50	1 10	23 29	0 10	19 55	1 26	3 4	0 42	19 5	0 39	13 26	16 56	13 31	13 4	12 2		n.a.
W12	22 49	19 48	3 35	16 8	1 5	16 46	3 39	22 44	1 10	23 29	0 10	19 56	1 26	3 3	0 42	19 5	0 39	13 26	16 56	13 29	13 3	12 0		n.a.
T 13	22 42	19 26	4 15	15 41	1 16	17 0	3 36	22 37	1 10	23 29	0 11	19 58	1 26	3 2	0 42	19 6	0 39	13 26	16 57	13 26	13 2	11 59		n.a.
F 14	22 34	18 10	4 43	15 14	1 27	17 14	3 33	22 30	1 10	23 28	0 11	19 59	1 27	3 1	0 42	19 6	0 39	13 27	16 57	13 22	13 1	11 57		n.a.
S 15	22 27	16 7	4 58	14 47	1 38	17 27	3 31	22 23	1 10	23 28	0 11	20 0	1 27	3 0	0 42	19 7	0 39	13 27	16 57	13 17	13 0	11 55		n.a.
S 16	22 19	13 24	5 0	14 22	1 49	17 41	3 28	22 16	1 10	23 28	0 11	20 1	1 27	2 59	0 42	19 7	0 39	13 27	16 58	13 13	12 59	11 53		n.a.
M17	22 10	10 10	4 49	13 57	2 1	17 55	3 25	22 8	1 10	23 27	0 11	20 2	1 27	2 59	0 42	19 7	0 39	13 28	16 58	13 9	12 58	11 52		n.a.
T 18	22 1	6 32	4 25	13 32	2 12	18 8	3 22	22 1	1 10	23 27	0 11	20 4	1 27	2 58	0 41	19 8	0 39	13 28	16 58	13 5	12 56	11 50		n.a.
W19	21 52	2 38	3 50	13 9	2 23	18 21	3 19	21 53	1 10	23 27	0 11	20 5	1 27	2 57	0 41	19 8	0 40	13 28	16 59	13 2	12 55	11 48		n.a.
T 20	21 43	1s23	3 5	12 47	2 34	18 34	3 15	21 45	1 10	23 26	0 12	20 6	1 27	2 56	0 41	19 9	0 40	13 29	16 59	13 1	12 54	11 46		n.a.
F 21	21 33	5 25	2 10	12 27	2 46	18 47	3 12	21 37	1 10	23 26	0 12	20 7	1 27	2 55	0 41	19 9	0 40	13 29	16 59	13 0	12 53	11 44		n.a.
S 22	21 22	9 18	1 9	12 8	2 57	18 59	3 9	21 29	1 10	23 26	0 12	20 9	1 28	2 54	0 41	19 10	0 40	13 30	17 0	13 0	12 52	11 43		n.a.
S 23	21 11	12 52	0 2	11 50	3 7	19 11	3 5	21 20	1 10	23 25	0 12	20 10	1 28	2 53	0 41	19 10	0 40	13 30	17 0	13 0	12 51	11 41		n.a.
M24	21 0	15 55	1n 6	11 34	3 18	19 23	3 2	21 12	1 10	23 25	0 12	20 11	1 28	2 52	0 41	19 10	0 40	13 30	17 0	12 59	12 50	11 39		n.a.
T 25	20 49	18 13	2 13	11 20	3 28	19 35	2 58	21 3	1 10	23 25	0 12	20 12	1 28	2 51	0 41	19 11	0 40	13 31	17 1	12 59	12 49	11 37		n.a.
W26	20 37	19 31	3 15	11 8	3 38	19 46	2 55	20 54	1 10	23 25	0 12	20 14	1 28	2 50	0 41	19 11	0 40	13 31	17 1	12 57	12 48	11 36		n.a.
T 27	20 25	19 36	4 6	10 59	3 47	19 57	2 51	20 45	1 10	23 24	0 12	20 15	1 28	2 49	0 41	19 12	0 40	13 32	17 1	12 55	12 47	11 34		n.a.
F 28	20 12	18 21	4 42	10 52	3 55	20 8	2 47	20 36	1 10	23 24	0 13	20 16	1 28	2 48	0 41	19 12	0 40	13 32	17 2	12 52	12 46	11 32		n.a.
S 29	19 59	15 47	4 59	10 47	4 3	20 18	2 43	20 27	1 10	23 24	0 13	20 17	1 28	2 47	0 41	19 13	0 40	13 33	17 2	12 48	12 44	11 30		n.a.
S 30	19 46	12 7	4 55	10 46	4 9	20 28	2 40	20 17	1 10	23 24	0 13	20 19	1 28	2 46	0 41	19 13	0 40	13 33	17 2	12 45	12 43	11 28		n.a.
M31	19n33	7s40	4n30	10n47	4s15	20n37	2s36	20n 8	1n10	23s24	0s13	20s20	1s28	2n44	0n41	19s13	0s40	13s33	17s 2	12s41	12s42	11n27		n.a.

Julian Day Number = 1674852.5, Delta T = 03h18m36s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'36, Lahiri = - 5°42'35 Julian Calendar 1 July 128 BCE == Greg. Calendar 28 June 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

AUGUST 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 25 31	4♌39'28	14♓12	20°R 4	19♊35	6♌33	18°R 9	6°R14	24♍47	7°R32	5°R 3	2°R58	3♏ 6	16♌ 4	n.a.	T 1
W 2	20 29 27	5°37'32	28°49	19♌31	20°38	7°12	18♐ 6	6♒10	24°50	7♒31	5♈ 3	2♏53	3° 3	16°10	n.a.	W 2
T 3	20 33 24	6°35'38	13♈ 0	18°52	21°42	7°50	18° 3	6° 5	24°52	7°29	5° 2	2°50	3° 0	16°17	n.a.	T 3
F 4	20 37 20	7°33'47	26°43	18° 8	22°46	8°29	18° 1	6° 0	24°55	7°27	5° 2	2°49	2°57	16°24	n.a.	F 4
S 5	20 41 17	8°31'57	10♉ 0	17°19	23°50	9° 7	17°58	5°56	24°58	7°26	5° 1	2°49	2°54	16°30	n.a.	S 5
S 6	20 45 14	9°30'10	22°54	16°26	24°54	9°45	17°56	5°51	25° 1	7°24	5° 1	2°49	2°50	16°37	n.a.	S 6
M 7	20 49 10	10°28'24	5♊30	15°29	25°59	10°24	17°54	5°47	25° 4	7°22	5° 0	2°47	2°47	16°44	n.a.	M 7
T 8	20 53 7	11°26'41	17°51	14°31	27° 3	11° 2	17°52	5°42	25° 7	7°21	4°59	2°43	2°44	16°51	n.a.	T 8
W 9	20 57 3	12°25'00	0♋ 2	13°31	28° 8	11°41	17°50	5°38	25°10	7°19	4°59	2°35	2°41	16°57	n.a.	W 9
T 10	21 1 0	13°23'21	12° 5	12°32	29°14	12°19	17°48	5°33	25°13	7°18	4°58	2°25	2°38	17° 4	n.a.	T 10
F 11	21 4 56	14°21'45	24° 2	11°35	0♋19	12°58	17°47	5°29	25°16	7°16	4°58	2°13	2°35	17°11	n.a.	F 11
S 12	21 8 53	15°20'10	5♌56	10°40	1°25	13°36	17°46	5°24	25°19	7°14	4°57	1°59	2°31	17°18	n.a.	S 12
S 13	21 12 49	16°18'37	17°48	9°49	2°31	14°15	17°45	5°20	25°22	7°13	4°56	1°46	2°28	17°24	n.a.	S 13
M14	21 16 46	17°17'06	29°39	9° 5	3°37	14°54	17°44	5°15	25°25	7°11	4°55	1°33	2°25	17°31	n.a.	M14
T 15	21 20 43	18°15'37	11♍32	8°26	4°44	15°32	17°43	5°11	25°28	7° 9	4°55	1°22	2°22	17°38	n.a.	T 15
W16	21 24 39	19°14'10	23°27	7°56	5°50	16°11	17°43	5° 6	25°32	7° 8	4°54	1°13	2°19	17°44	n.a.	W16
T 17	21 28 36	20°12'45	5♎28	7°34	6°57	16°49	17°43	5° 2	25°35	7° 6	4°53	1° 8	2°15	17°51	n.a.	T 17
F 18	21 32 32	21°11'21	17°36	7°20	8° 4	17°28	17°D43	4°58	25°38	7° 5	4°52	1° 5	2°12	17°58	n.a.	F 18
S 19	21 36 29	22°10'00	29°57	7°D17	9°11	18° 7	17°43	4°54	25°41	7° 3	4°52	1°D 4	2° 9	18° 5	n.a.	S 19
S 20	21 40 25	23° 8'40	12♏35	7°22	10°19	18°45	17°43	4°49	25°45	7° 1	4°51	1° 4	2° 6	18°11	n.a.	S 20
M21	21 44 22	24° 7'22	25°33	7°38	11°26	19°24	17°44	4°45	25°48	7° 0	4°50	1°R 5	2° 3	18°18	n.a.	M21
T 22	21 48 18	25° 6'06	8♐56	8° 3	12°34	20° 3	17°44	4°41	25°51	6°58	4°49	1° 4	2° 0	18°25	n.a.	T 22
W23	21 52 15	26° 4'51	22°46	8°37	13°42	20°42	17°45	4°37	25°55	6°57	4°48	1° 1	1°56	18°31	n.a.	W23
T 24	21 56 12	27° 3'39	7♑ 5	9°20	14°50	21°20	17°46	4°33	25°58	6°55	4°48	0°56	1°53	18°38	n.a.	T 24
F 25	22 0 8	28° 2'28	21°51	10°11	15°58	21°59	17°48	4°29	26° 2	6°54	4°47	0°49	1°50	18°45	n.a.	F 25
S 26	22 4 5	29° 1'19	6♒57	11°10	17° 7	22°38	17°49	4°25	26° 5	6°52	4°46	0°40	1°47	18°52	n.a.	S 26
S 27	22 8 1	0♍ 0'13	22°14	12°16	18°15	23°17	17°51	4°21	26° 9	6°51	4°45	0°30	1°44	18°58	n.a.	S 27
M28	22 11 58	0°59'08	7♓32	13°29	19°24	23°56	17°53	4°17	26°12	6°49	4°44	0°22	1°40	19° 5	n.a.	M28
T 29	22 15 54	1°58'05	22°39	14°47	20°33	24°34	17°55	4°13	26°16	6°48	4°43	0°15	1°37	19°12	n.a.	T 29
W30	22 19 51	2°57'05	7♈26	16°11	21°42	25°13	17°57	4°10	26°19	6°46	4°42	0°11	1°34	19°18	n.a.	W30
T 31	22 23 47	3♍56'06	21♈47	17♌39	22♋51	25♌52	18♐ 0	4♒ 6	26♍23	6♒45	4♈41	0♏ 9	1♏31	19♌25	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n19	2s48	3n47	10n51	4s20	20n46	2s32	19n58	1n10	23s23	0s13	20s21	1s29	2n43	0n41	19s14	0s40	13s34	17s 3	12s38	12s41	11n25			n.a.
W 2	19 5	2n 6	2 49	10 59	4 23	20 55	2 28	19 48	1 9	23 23	0 13	20 22	1 29	2 42	0 41	19 14	0 40	13 34	17 3	12 37	12 40	11 23			n.a.
T 3	18 50	6 46	1 43	11 9	4 24	21 3	2 24	19 38	1 9	23 23	0 13	20 24	1 29	2 41	0 41	19 15	0 40	13 35	17 3	12 36	12 39	11 21			n.a.
F 4	18 35	10 55	0 32	11 23	4 24	21 11	2 20	19 28	1 9	23 23	0 13	20 25	1 29	2 40	0 41	19 15	0 40	13 35	17 4	12 35	12 38	11 19			n.a.
S 5	18 20	14 23	0s38	11 39	4 23	21 18	2 16	19 17	1 9	23 23	0 13	20 26	1 29	2 39	0 41	19 16	0 40	13 36	17 4	12 35	12 37	11 18			n.a.
S 6	18 4	17 2	1 44	11 59	4 19	21 25	2 11	19 7	1 9	23 23	0 14	20 27	1 29	2 38	0 41	19 16	0 40	13 36	17 4	12 35	12 36	11 16			n.a.
M 7	17 49	18 47	2 44	12 21	4 13	21 32	2 7	18 56	1 9	23 23	0 14	20 29	1 29	2 36	0 41	19 16	0 40	13 37	17 4	12 34	12 35	11 14			n.a.
T 8	17 32	19 36	3 34	12 45	4 5	21 37	2 3	18 46	1 9	23 22	0 14	20 30	1 29	2 35	0 41	19 17	0 40	13 37	17 5	12 33	12 33	11 12			n.a.
W 9	17 16	19 29	4 14	13 11	3 56	21 43	1 59	18 35	1 9	23 22	0 14	20 31	1 29	2 34	0 41	19 17	0 40	13 38	17 5	12 30	12 32	11 11			n.a.
T 10	16 59	18 28	4 42	13 39	3 44	21 48	1 55	18 24	1 9	23 22	0 14	20 32	1 29	2 33	0 41	19 18	0 40	13 38	17 5	12 27	12 31	11 9			n.a.
F 11	16 42	16 40	4 57	14 7	3 31	21 52	1 50	18 13	1 9	23 22	0 14	20 33	1 29	2 31	0 41	19 18	0 40	13 39	17 6	12 23	12 30	11 7			n.a.
S 12	16 25	14 10	5 0	14 37	3 16	21 56	1 46	18 1	1 9	23 22	0 14	20 34	1 29	2 30	0 41	19 19	0 40	13 39	17 6	12 18	12 29	11 5			n.a.
S 13	16 8	11 5	4 49	15 6	3 0	21 59	1 42	17 50	1 9	23 22	0 14	20 36	1 29	2 29	0 41	19 19	0 40	13 40	17 6	12 13	12 28	11 3			n.a.
M14	15 50	7 35	4 26	15 35	2 43	22 2	1 38	17 39	1 9	23 22	0 14	20 37	1 29	2 28	0 41	19 20	0 40	13 40	17 6	12 9	12 27	11 2			n.a.
T 15	15 32	3 46	3 51	16 2	2 24	22 4	1 33	17 27	1 9	23 22	0 14	20 38	1 29	2 26	0 41	19 20	0 40	13 41	17 7	12 5	12 26	11 0			n.a.
W16	15 13	0s12	3 5	16 28	2 5	22 6	1 29	17 15	1 8	23 22	0 15	20 39	1 30	2 25	0 41	19 20	0 40	13 41	17 7	12 2	12 25	10 58			n.a.
T 17	14 55	4 12	2 12	16 53	1 46	22 7	1 25	17 3	1 8	23 23	0 15	20 40	1 30	2 24	0 41	19 21	0 40	13 42	17 7	12 0	12 24	10 56			n.a.
F 18	14 36	8 5	1 11	17 15	1 27	22 7	1 21	16 51	1 8	23 23	0 15	20 41	1 30	2 22	0 41	19 21	0 40	13 42	17 7	11 59	12 22	10 54			n.a.
S 19	14 17	11 40	0 6	17 34	1 8	22 7	1 16	16 39	1 8	23 23	0 15	20 42	1 30	2 21	0 41	19 22	0 40	13 43	17 8	11 59	12 21	10 52			n.a.
S 20	13 57	14 49	1n 1	17 51	0 49	22 6	1 12	16 27	1 8	23 23	0 15	20 43	1 30	2 20	0 41	19 22	0 40	13 43	17 8	11 59	12 20	10 51			n.a.
M21	13 38	17 19	2 7	18 4	0 31	22 5	1 8	16 15	1 8	23 23	0 15	20 44	1 30	2 18	0 40	19 22	0 40	13 44	17 8	11 59	12 19	10 49			n.a.
T 22	13 18	18 57	3 7	18 14	0 14	22 3	1 3	16 2	1 8	23 23	0 15	20 45	1 30	2 17	0 40	19 23	0 40	13 44	17 8	11 58	12 18	10 47			n.a.
W23	12 58	19 32	3 59	18 21	0n 2	22 1	0 59	15 50	1 8	23 23	0 15	20 46	1 30	2 16	0 40	19 23	0 40	13 45	17 8	11 57	12 17	10 45			n.a.
T 24	12 38	18 53	4 38	18 24	0 18	21 58	0 55	15 37	1 8	23 24	0 15	20 47	1 30	2 14	0 40	19 24	0 40	13 45	17 9	11 56	12 16	10 43			n.a.
F 25	12 17	16 58	5 0	18 24	0 32	21 54	0 51	15 24	1 8	23 24	0 15	20 48	1 30	2 13	0 40	19 24	0 40	13 46	17 9	11 53	12 15	10 42			n.a.
S 26	11 57	13 52	5 2	18 21	0 45	21 50	0 47	15 11	1 7	23 24	0 15	20 49	1 30	2 11	0 40	19 24	0 40	13 46	17 9	11 50	12 14	10 40			n.a.
S 27	11 36	9 48	4 43	18 13	0 57	21 45	0 42	14 58	1 7	23 24	0 16	20 50	1 30	2 10	0 40	19 25	0 40	13 47	17 9	11 47	12 12	10 38			n.a.
M28	11 15	5 5	4 3	18 3	1 8	21 39	0 38	14 45	1 7	23 25	0 16	20 51	1 30	2 9	0 40	19 25	0 40	13 47	17 9	11 44	12 11	10 36			n.a.
T 29	10 54	0 6	3 7	17 49	1 17	21 33	0 34	14 32	1 7	23 25	0 16	20 52	1 30	2 7	0 40	19 26	0 40	13 48	17 10	11 41	12 10	10 34			n.a.
W30	10 32	4n47	1 59	17 31	1 26	21 26	0 30	14 18	1 7	23 25	0 16	20 53	1 30	2 6	0 40	19 26	0 40	13 49	17 10	11 40	12 9	10 33			n.a.
T 31	10n11	9n16	0n45	17n11	1n33	21n19	0s26	14n 5	1n 7	23s25	0s16	20s54	1s30	2n 4	0n40	19s26	0s40	13s49	17s10	11s39	12s 8	10n31			n.a.

Julian Day Number = 1674883.5, Delta T = 03h18m35s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'31, Lahiri = - 5°42'31 Julian Calendar 1 Aug. 128 BCE == Greg. Calendar 29 July 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

SEPTEMBER 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 27 44	4♍55'11	5♉39	19♌10	24♋ 1	26♌31	18♐ 2	4°R 2	26♍26	6°R44	4°R40	0°D 9	1♏28	19♌32	n.a.	F 1
S 2	22 31 40	5°54'17	19° 3	20°46	25°10	27°10	18° 5	3♒59	26°30	6♒42	4♈39	0♏ 9	1°25	19°39	n.a.	S 2
S 3	22 35 37	6°53'26	2♊ 1	22°23	26°20	27°49	18° 8	3°55	26°33	6°41	4°38	0°R10	1°21	19°45	n.a.	S 3
M 4	22 39 34	7°52'38	14°38	24° 4	27°30	28°28	18°12	3°52	26°37	6°39	4°37	0°10	1°18	19°52	n.a.	M 4
T 5	22 43 30	8°51'52	26°57	25°45	28°40	29° 7	18°15	3°49	26°41	6°38	4°36	0° 8	1°15	19°59	n.a.	T 5
W 6	22 47 27	9°51'09	9♋ 4	27°29	29°50	29°46	18°19	3°45	26°44	6°37	4°35	0° 4	1°12	20° 5	n.a.	W 6
T 7	22 51 23	10°50'27	21° 2	29°13	1♌ 0	0♍25	18°22	3°42	26°48	6°36	4°34	29♎58	1° 9	20°12	n.a.	T 7
F 8	22 55 20	11°49'48	2♌56	0♍58	2°11	1° 4	18°26	3°39	26°52	6°34	4°33	29°50	1° 6	20°19	n.a.	F 8
S 9	22 59 16	12°49'12	14°47	2°44	3°21	1°43	18°30	3°36	26°55	6°33	4°32	29°41	1° 2	20°26	n.a.	S 9
S 10	23 3 13	13°48'37	26°39	4°29	4°32	2°23	18°35	3°33	26°59	6°32	4°31	29°32	0°59	20°32	n.a.	S 10
M11	23 7 9	14°48'05	8♍33	6°15	5°43	3° 2	18°39	3°30	27° 3	6°31	4°30	29°23	0°56	20°39	n.a.	M11
T 12	23 11 6	15°47'35	20°31	8° 1	6°54	3°41	18°44	3°27	27° 7	6°29	4°29	29°16	0°53	20°46	n.a.	T 12
W13	23 15 3	16°47'07	2♎34	9°47	8° 5	4°20	18°49	3°25	27°10	6°28	4°28	29°11	0°50	20°52	n.a.	W13
T 14	23 18 59	17°46'42	14°44	11°32	9°16	4°59	18°54	3°22	27°14	6°27	4°27	29° 8	0°46	20°59	n.a.	T 14
F 15	23 22 56	18°46'18	27° 4	13°17	10°27	5°39	18°59	3°20	27°18	6°26	4°26	29°D 6	0°43	21° 6	n.a.	F 15
S 16	23 26 52	19°45'56	9♏34	15° 1	11°39	6°18	19° 4	3°17	27°22	6°25	4°25	29° 7	0°40	21°13	n.a.	S 16
S 17	23 30 49	20°45'36	22°18	16°45	12°50	6°57	19°10	3°15	27°25	6°24	4°24	29° 8	0°37	21°19	n.a.	S 17
M18	23 34 45	21°45'18	5♐19	18°29	14° 2	7°36	19°15	3°13	27°29	6°23	4°22	29°10	0°34	21°26	n.a.	M18
T 19	23 38 42	22°45'02	18°40	20°11	15°14	8°16	19°21	3°10	27°33	6°22	4°21	29°R11	0°31	21°33	n.a.	T 19
W20	23 42 38	23°44'47	2♑22	21°54	16°26	8°55	19°27	3° 8	27°37	6°21	4°20	29°11	0°27	21°39	n.a.	W20
T 21	23 46 35	24°44'35	16°28	23°35	17°37	9°34	19°33	3° 6	27°40	6°20	4°19	29° 9	0°24	21°46	n.a.	T 21
F 22	23 50 31	25°44'24	0♒56	25°17	18°50	10°14	19°40	3° 4	27°44	6°19	4°18	29° 6	0°21	21°53	n.a.	F 22
S 23	23 54 28	26°44'15	15°43	26°57	20° 2	10°53	19°46	3° 3	27°48	6°18	4°17	29° 1	0°18	22° 0	n.a.	S 23
S 24	23 58 25	27°44'08	0♓41	28°37	21°14	11°33	19°53	3° 1	27°52	6°17	4°16	28°57	0°15	22° 6	n.a.	S 24
M25	0 2 21	28°44'02	15°44	0♎16	22°26	12°12	20° 0	2°59	27°55	6°16	4°15	28°52	0°11	22°13	n.a.	M25
T 26	0 6 18	29°43'59	0♈42	1°55	23°39	12°52	20° 7	2°58	27°59	6°15	4°13	28°49	0° 8	22°20	n.a.	T 26
W27	0 10 14	0♎43'57	15°25	3°33	24°51	13°31	20°14	2°56	28° 3	6°14	4°12	28°47	0° 5	22°26	n.a.	W27
T 28	0 14 11	1°43'58	29°48	5°11	26° 4	14°11	20°21	2°55	28° 7	6°14	4°11	28°D46	0° 2	22°33	n.a.	T 28
F 29	0 18 7	2°44'00	13♉46	6°48	27°16	14°50	20°29	2°54	28°11	6°13	4°10	28°47	29♎59	22°40	n.a.	F 29
S 30	0 22 4	3♎44'05	27♉17	8♎25	28♌29	15♍30	20♐36	2♒53	28♍14	6♒12	4♈ 9	28♎48	29♎56	22♌47	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n49	13n 5	0s30	16n48	1n39	21n11	0s22	13n51	1n 7	23s26	0s16	20s55	1s30	2n 3	0n40	19s27	0s40	13s50	17s10	11s39	12s 7	10n29		n.a.
S 2	9 27	16 5	1 40	16 22	1 44	21 3	0 18	13 38	1 7	23 26	0 16	20 56	1 30	2 1	0 40	19 27	0 40	13 50	17 10	11 39	12 6	10 27		n.a.
S 3	9 5	18 9	2 43	15 54	1 48	20 53	0 14	13 24	1 6	23 26	0 16	20 57	1 30	2 0	0 40	19 27	0 40	13 51	17 10	11 40	12 5	10 25		n.a.
M 4	8 43	19 14	3 36	15 23	1 51	20 44	0 10	13 10	1 6	23 27	0 16	20 57	1 30	1 58	0 40	19 28	0 40	13 51	17 11	11 39	12 4	10 23		n.a.
T 5	8 20	19 23	4 17	14 50	1 53	20 33	0 6	12 56	1 6	23 27	0 16	20 58	1 30	1 57	0 40	19 28	0 40	13 52	17 11	11 39	12 2	10 22		n.a.
W 6	7 58	18 37	4 47	14 16	1 54	20 22	0 3	12 42	1 6	23 28	0 16	20 59	1 30	1 55	0 40	19 28	0 40	13 52	17 11	11 37	12 1	10 20		n.a.
T 7	7 35	17 3	5 3	13 40	1 54	20 11	0n 1	12 28	1 6	23 28	0 16	21 0	1 30	1 54	0 40	19 29	0 40	13 53	17 11	11 35	12 0	10 18		n.a.
F 8	7 12	14 45	5 7	13 2	1 54	19 59	0 5	12 14	1 6	23 28	0 17	21 0	1 30	1 52	0 40	19 29	0 40	13 53	17 11	11 32	11 59	10 16		n.a.
S 9	6 49	11 51	4 57	12 23	1 53	19 46	0 9	12 0	1 5	23 29	0 17	21 1	1 30	1 51	0 40	19 29	0 40	13 54	17 11	11 29	11 58	10 14		n.a.
S 10	6 26	8 29	4 34	11 42	1 52	19 32	0 12	11 46	1 5	23 29	0 17	21 2	1 30	1 49	0 40	19 30	0 40	13 54	17 11	11 26	11 57	10 12		n.a.
M11	6 3	4 46	3 59	11 1	1 50	19 19	0 16	11 31	1 5	23 30	0 17	21 2	1 30	1 48	0 40	19 30	0 40	13 55	17 12	11 23	11 56	10 11		n.a.
T 12	5 40	0 50	3 14	10 19	1 47	19 4	0 19	11 17	1 5	23 30	0 17	21 3	1 30	1 46	0 40	19 30	0 40	13 55	17 12	11 20	11 55	10 9		n.a.
W13	5 16	3s 9	2 19	9 35	1 44	18 49	0 23	11 2	1 5	23 31	0 17	21 4	1 29	1 45	0 40	19 31	0 40	13 56	17 12	11 18	11 53	10 7		n.a.
T 14	4 53	7 3	1 17	8 52	1 40	18 33	0 26	10 47	1 5	23 31	0 17	21 4	1 29	1 43	0 40	19 31	0 40	13 56	17 12	11 17	11 52	10 5		n.a.
F 15	4 29	10 43	0 11	8 8	1 37	18 17	0 30	10 33	1 4	23 32	0 17	21 5	1 29	1 42	0 40	19 31	0 40	13 57	17 12	11 17	11 51	10 3		n.a.
S 16	4 6	13 57	0n57	7 23	1 32	18 1	0 33	10 18	1 4	23 32	0 17	21 5	1 29	1 40	0 40	19 31	0 40	13 57	17 12	11 17	11 50	10 1		n.a.
S 17	3 42	16 34	2 3	6 38	1 28	17 43	0 36	10 3	1 4	23 33	0 17	21 6	1 29	1 39	0 40	19 32	0 40	13 58	17 12	11 17	11 49	10 0		n.a.
M18	3 18	18 24	3 4	5 53	1 23	17 26	0 39	9 48	1 4	23 33	0 17	21 6	1 29	1 37	0 40	19 32	0 40	13 58	17 12	11 18	11 48	9 58		n.a.
T 19	2 55	19 16	3 58	5 7	1 18	17 7	0 42	9 33	1 4	23 34	0 17	21 7	1 29	1 36	0 40	19 32	0 40	13 59	17 12	11 18	11 47	9 56		n.a.
W20	2 31	19 2	4 39	4 21	1 12	16 49	0 45	9 18	1 3	23 34	0 17	21 7	1 29	1 34	0 40	19 32	0 40	13 59	17 12	11 18	11 46	9 54		n.a.
T 21	2 7	17 39	5 5	3 36	1 7	16 29	0 48	9 3	1 3	23 35	0 18	21 8	1 29	1 33	0 40	19 33	0 40	14 0	17 12	11 18	11 44	9 52		n.a.
F 22	1 43	15 6	5 12	2 50	1 1	16 10	0 51	8 47	1 3	23 36	0 18	21 8	1 29	1 31	0 40	19 33	0 40	14 0	17 12	11 16	11 43	9 50		n.a.
S 23	1 19	11 33	4 59	2 4	0 55	15 49	0 54	8 32	1 3	23 36	0 18	21 8	1 29	1 30	0 40	19 33	0 40	14 1	17 12	11 15	11 42	9 49		n.a.
S 24	0 55	7 13	4 26	1 18	0 49	15 29	0 57	8 17	1 3	23 37	0 18	21 9	1 29	1 28	0 40	19 33	0 40	14 1	17 12	11 13	11 41	9 47		n.a.
M25	0 31	2 24	3 34	0 33	0 43	15 7	0 59	8 1	1 2	23 37	0 18	21 9	1 29	1 27	0 40	19 34	0 40	14 2	17 12	11 12	11 40	9 45		n.a.
T 26	0 6	2n32	2 28	0s13	0 36	14 46	1 2	7 46	1 2	23 38	0 18	21 9	1 29	1 25	0 40	19 34	0 40	14 2	17 12	11 10	11 39	9 43		n.a.
W27	0s18	7 15	1 13	0 58	0 30	14 24	1 5	7 30	1 2	23 39	0 18	21 10	1 29	1 24	0 40	19 34	0 40	14 3	17 12	11 10	11 38	9 41		n.a.
T 28	0 42	11 26	0s 6	1 43	0 24	14 1	1 7	7 15	1 2	23 39	0 18	21 10	1 29	1 22	0 40	19 34	0 40	14 3	17 12	11 10	11 37	9 39		n.a.
F 29	1 6	14 51	1 21	2 28	0 17	13 38	1 9	6 59	1 2	23 40	0 18	21 10	1 29	1 21	0 40	19 34	0 40	14 4	17 12	11 10	11 35	9 38		n.a.
S 30	1s30	17n20	2s30	3s13	0n10	13n15	1n12	6n43	1n 1	23s40	0s18	21s10	1s29	1n19	0n40	19s34	0s40	14s 4	17s12	11s10	11s34	9n36		n.a.

Julian Day Number = 1674914.5, Delta T = 03h18m34s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'27, Lahiri = - 5°42'27 Julian Calendar 1 Sept. 128 BCE == Greg. Calendar 29 Aug. 128 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

OCTOBER 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 26 0	4♎44'13	10♊22	10♎ 1	29♌42	16♍10	20♐44	2°R52	28♍18	6°R12	4°R 8	28♎50	29♎52	22♌53	n.a.	S 1
M 2	0 29 57	5°44'22	23° 4	11°37	0♍55	16°49	20°52	2♒51	28°22	6♒11	4♈ 7	28°51	29°49	23° 0	n.a.	M 2
T 3	0 33 54	6°44'34	5♋27	13°12	2° 8	17°29	21° 0	2°50	28°26	6°10	4° 6	28°R52	29°46	23° 7	n.a.	T 3
W 4	0 37 50	7°44'48	17°35	14°46	3°21	18° 9	21° 8	2°50	28°29	6°10	4° 4	28°52	29°43	23°13	n.a.	W 4
T 5	0 41 47	8°45'04	29°34	16°21	4°35	18°48	21°16	2°49	28°33	6° 9	4° 3	28°50	29°40	23°20	n.a.	T 5
F 6	0 45 43	9°45'22	11♌26	17°55	5°48	19°28	21°25	2°48	28°37	6° 9	4° 2	28°48	29°37	23°27	n.a.	F 6
S 7	0 49 40	10°45'42	23°17	19°28	7° 1	20° 8	21°33	2°48	28°41	6° 8	4° 1	28°45	29°33	23°34	n.a.	S 7
S 8	0 53 36	11°46'04	5♍10	21° 1	8°15	20°48	21°42	2°48	28°44	6° 8	4° 0	28°42	29°30	23°40	n.a.	S 8
M 9	0 57 33	12°46'28	17° 8	22°34	9°28	21°27	21°51	2°48	28°48	6° 7	3°59	28°40	29°27	23°47	n.a.	M 9
T 10	1 1 29	13°46'54	29°14	24° 7	10°42	22° 7	22° 0	2°D48	28°52	6° 7	3°58	28°37	29°24	23°54	n.a.	T 10
W11	1 5 26	14°47'21	11♎28	25°39	11°55	22°47	22° 9	2°48	28°55	6° 6	3°56	28°36	29°21	24° 0	n.a.	W11
T 12	1 9 22	15°47'51	23°53	27°10	13° 9	23°27	22°18	2°48	28°59	6° 6	3°55	28°D35	29°17	24° 7	n.a.	T 12
F 13	1 13 19	16°48'22	6♏30	28°42	14°23	24° 7	22°27	2°48	29° 3	6° 6	3°54	28°35	29°14	24°14	n.a.	F 13
S 14	1 17 16	17°48'55	19°19	0♏13	15°37	24°47	22°37	2°48	29° 6	6° 6	3°53	28°36	29°11	24°21	n.a.	S 14
S 15	1 21 12	18°49'29	2♐21	1°43	16°51	25°27	22°47	2°49	29°10	6° 5	3°52	28°37	29° 8	24°27	n.a.	S 15
M16	1 25 9	19°50'05	15°36	3°14	18° 4	26° 7	22°56	2°49	29°14	6° 5	3°51	28°38	29° 5	24°34	n.a.	M16
T 17	1 29 5	20°50'43	29° 6	4°44	19°18	26°47	23° 6	2°50	29°17	6° 5	3°50	28°39	29° 2	24°41	n.a.	T 17
W18	1 33 2	21°51'21	12♑51	6°13	20°33	27°27	23°16	2°51	29°21	6° 5	3°49	28°39	28°58	24°47	n.a.	W18
T 19	1 36 58	22°52'01	26°50	7°42	21°47	28° 7	23°26	2°52	29°24	6° 5	3°48	28°R39	28°55	24°54	n.a.	T 19
F 20	1 40 55	23°52'42	11♒ 2	9°11	23° 1	28°47	23°36	2°53	29°28	6° 5	3°47	28°39	28°52	25° 1	n.a.	F 20
S 21	1 44 51	24°53'24	25°26	10°40	24°15	29°28	23°47	2°54	29°31	6°D 5	3°46	28°39	28°49	25° 7	n.a.	S 21
S 22	1 48 48	25°54'08	9♓58	12° 8	25°29	0♎ 8	23°57	2°55	29°35	6° 5	3°44	28°38	28°46	25°14	n.a.	S 22
M23	1 52 45	26°54'52	24°34	13°35	26°44	0°48	24° 8	2°56	29°38	6° 5	3°43	28°38	28°43	25°21	n.a.	M23
T 24	1 56 41	27°55'38	9♈ 6	15° 2	27°58	1°28	24°18	2°58	29°42	6° 5	3°42	28°38	28°39	25°28	n.a.	T 24
W25	2 0 38	28°56'25	23°31	16°28	29°12	2° 8	24°29	2°59	29°45	6° 5	3°41	28°38	28°36	25°34	n.a.	W25
T 26	2 4 34	29°57'14	7♉41	17°53	0♎27	2°49	24°40	3° 1	29°49	6° 5	3°40	28°38	28°33	25°41	n.a.	T 26
F 27	2 8 31	0♏58'04	21°32	19°18	1°41	3°29	24°51	3° 3	29°52	6° 5	3°39	28°38	28°30	25°48	n.a.	F 27
S 28	2 12 27	1°58'55	5♊ 2	20°42	2°56	4° 9	25° 2	3° 5	29°55	6° 5	3°38	28°37	28°27	25°54	n.a.	S 28
S 29	2 16 24	2°59'48	18°10	22° 4	4°10	4°50	25°13	3° 7	29°59	6° 6	3°37	28°37	28°23	26° 1	n.a.	S 29
M30	2 20 20	4° 0'42	0♋57	23°26	5°25	5°30	25°24	3° 9	0♎ 2	6° 6	3°36	28°36	28°20	26° 8	n.a.	M30
T 31	2 24 17	5♏ 1'38	13♋24	24♏46	6♎39	6♎10	25♐35	3♒11	0♎ 5	6♒ 6	3♈35	28♎36	28♎17	26♌15	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	1s54	18n48	3s29	3s57	0n 4	12n51	1n14	6n27	1n 1	23s41	0s18	21s10	1s29	1n18	0n40	19s35	0s40	14s 5	17s12	11s11	11s33	9n34			n.a.
M 2	2 18	19 16	4 16	4 41	0s 3	12 27	1 16	6 12	1 1	23 42	0 18	21 11	1 28	1 16	0 40	19 35	0 40	14 5	17 12	11 11	11 32	9 32			n.a.
T 3	2 42	18 47	4 49	5 25	0 9	12 3	1 18	5 56	1 1	23 42	0 18	21 11	1 28	1 15	0 40	19 35	0 40	14 5	17 12	11 12	11 31	9 30			n.a.
W 4	3 6	17 26	5 9	6 8	0 16	11 38	1 20	5 40	1 0	23 43	0 18	21 11	1 28	1 13	0 40	19 35	0 40	14 6	17 12	11 11	11 30	9 28			n.a.
T 5	3 30	15 20	5 15	6 51	0 23	11 13	1 22	5 24	1 0	23 43	0 18	21 11	1 28	1 12	0 40	19 35	0 40	14 6	17 12	11 11	11 29	9 26			n.a.
F 6	3 54	12 37	5 8	7 33	0 29	10 47	1 24	5 8	1 0	23 44	0 19	21 11	1 28	1 10	0 40	19 35	0 40	14 7	17 12	11 10	11 28	9 25			n.a.
S 7	4 18	9 24	4 47	8 15	0 36	10 21	1 26	4 52	1 0	23 45	0 19	21 11	1 28	1 9	0 40	19 35	0 40	14 7	17 12	11 9	11 26	9 23			n.a.
S 8	4 42	5 47	4 14	8 57	0 42	9 55	1 27	4 36	0 59	23 45	0 19	21 11	1 28	1 7	0 40	19 36	0 40	14 7	17 12	11 8	11 25	9 21			n.a.
M 9	5 6	1 55	3 30	9 38	0 49	9 29	1 29	4 20	0 59	23 46	0 19	21 11	1 28	1 6	0 40	19 36	0 40	14 8	17 12	11 7	11 24	9 19			n.a.
T 10	5 30	2s 4	2 35	10 18	0 55	9 2	1 30	4 4	0 59	23 47	0 19	21 11	1 28	1 4	0 40	19 36	0 40	14 8	17 12	11 6	11 23	9 17			n.a.
W11	5 53	6 1	1 33	10 58	1 1	8 35	1 32	3 47	0 59	23 47	0 19	21 11	1 28	1 3	0 40	19 36	0 40	14 9	17 12	11 6	11 22	9 15			n.a.
T 12	6 17	9 46	0 26	11 38	1 8	8 7	1 33	3 31	0 58	23 48	0 19	21 11	1 28	1 1	0 40	19 36	0 40	14 9	17 12	11 6	11 21	9 13			n.a.
F 13	6 41	13 9	0n44	12 16	1 14	7 40	1 35	3 15	0 58	23 48	0 19	21 10	1 28	1 0	0 40	19 36	0 40	14 9	17 12	11 6	11 20	9 12			n.a.
S 14	7 4	15 57	1 52	12 55	1 20	7 12	1 36	2 59	0 58	23 49	0 19	21 10	1 28	0 58	0 40	19 36	0 40	14 10	17 12	11 6	11 18	9 10			n.a.
S 15	7 27	17 59	2 56	13 32	1 25	6 44	1 37	2 42	0 57	23 50	0 19	21 10	1 27	0 57	0 40	19 36	0 40	14 10	17 12	11 6	11 17	9 8			n.a.
M16	7 50	19 4	3 52	14 9	1 31	6 16	1 38	2 26	0 57	23 50	0 19	21 10	1 27	0 55	0 40	19 36	0 40	14 10	17 11	11 6	11 16	9 6			n.a.
T 17	8 14	19 6	4 36	14 45	1 36	5 47	1 39	2 10	0 57	23 51	0 19	21 10	1 27	0 54	0 40	19 36	0 40	14 11	17 11	11 7	11 15	9 4			n.a.
W18	8 37	18 1	5 5	15 21	1 42	5 19	1 40	1 53	0 57	23 51	0 19	21 9	1 27	0 52	0 40	19 36	0 40	14 11	17 11	11 7	11 14	9 2			n.a.
T 19	8 59	15 50	5 17	15 55	1 47	4 50	1 40	1 37	0 56	23 52	0 19	21 9	1 27	0 51	0 40	19 36	0 40	14 11	17 11	11 7	11 13	9 0			n.a.
F 20	9 22	12 41	5 10	16 29	1 52	4 21	1 41	1 20	0 56	23 53	0 19	21 9	1 27	0 50	0 40	19 36	0 40	14 12	17 11	11 7	11 12	8 59			n.a.
S 21	9 45	8 44	4 43	17 2	1 56	3 52	1 42	1 4	0 56	23 53	0 20	21 8	1 27	0 48	0 40	19 36	0 40	14 12	17 11	11 7	11 10	8 57			n.a.
S 22	10 7	4 14	3 59	17 34	2 1	3 22	1 42	0 48	0 55	23 54	0 20	21 8	1 27	0 47	0 40	19 36	0 40	14 12	17 11	11 7	11 9	8 55			n.a.
M23	10 29	0n32	2 58	18 5	2 5	2 53	1 43	0 31	0 55	23 54	0 20	21 8	1 27	0 45	0 40	19 36	0 40	14 12	17 10	11 7	11 8	8 53			n.a.
T 24	10 51	5 16	1 46	18 35	2 9	2 23	1 43	0 15	0 55	23 55	0 20	21 7	1 27	0 44	0 40	19 36	0 40	14 13	17 10	11 6	11 7	8 51			n.a.
W25	11 13	9 40	0 28	19 4	2 13	1 54	1 43	0s 2	0 54	23 55	0 20	21 7	1 27	0 43	0 40	19 36	0 40	14 13	17 10	11 6	11 6	8 49			n.a.
T 26	11 35	13 26	0s50	19 32	2 16	1 24	1 43	0 18	0 54	23 56	0 20	21 6	1 27	0 41	0 40	19 36	0 40	14 13	17 10	11 6	11 5	8 47			n.a.
F 27	11 56	16 22	2 4	19 58	2 19	0 54	1 43	0 35	0 54	23 56	0 20	21 6	1 27	0 40	0 40	19 36	0 40	14 13	17 10	11 6	11 4	8 46			n.a.
S 28	12 18	18 17	3 9	20 24	2 21	0 24	1 43	0 51	0 53	23 57	0 20	21 5	1 26	0 39	0 40	19 36	0 40	14 14	17 10	11 6	11 2	8 44			n.a.
S 29	12 39	19 10	4 2	20 48	2 23	0s 6	1 43	1 8	0 53	23 57	0 20	21 5	1 26	0 37	0 40	19 36	0 40	14 14	17 9	11 6	11 1	8 42			n.a.
M30	13 0	19 1	4 41	21 11	2 25	0 36	1 43	1 24	0 53	23 58	0 20	21 4	1 26	0 36	0 40	19 36	0 40	14 14	17 9	11 6	11 0	8 40			n.a.
T 31	13s21	17n57	5s 6	21s32	2s26	1s 6	1n43	1s41	0n52	23s58	0s20	21s 4	1s26	0n35	0n40	19s36	0s39	14s14	17s 9	11s 6	10s59	8n38			n.a.

Julian Day Number = 1674944.5, Delta T = 03h18m33s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'23, Lahiri = - 5°42'23 Julian Calendar 1 Oct. 128 BCE == Greg. Calendar 28 Sept. 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

NOVEMBER 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 28 14	6♏ 2'35	25♋35	26♏ 5	7♎54	6♎51	25♐47	3♒13	0♎ 9	6♒ 7	3°R35	28°R35	28♎14	26♌21	n.a.	W 1
T 2	2 32 10	7° 3'34	7♌35	27°21	9° 9	7°31	25°58	3°15	0°12	6° 7	3♈34	28°D35	28°11	26°28	n.a.	T 2
F 3	2 36 7	8° 4'34	19°29	28°36	10°24	8°12	26°10	3°18	0°15	6° 8	3°33	28♎35	28° 8	26°35	n.a.	F 3
S 4	2 40 3	9° 5'35	1♍20	29°48	11°38	8°52	26°22	3°20	0°18	6° 8	3°32	28°36	28° 4	26°41	n.a.	S 4
S 5	2 44 0	10° 6'37	13°13	0♐58	12°53	9°33	26°34	3°23	0°21	6° 8	3°31	28°37	28° 1	26°48	n.a.	S 5
M 6	2 47 56	11° 7'41	25°14	2° 4	14° 8	10°13	26°45	3°26	0°25	6° 9	3°30	28°38	27°58	26°55	n.a.	M 6
T 7	2 51 53	12° 8'46	7♎25	3° 7	15°23	10°54	26°57	3°28	0°28	6°10	3°29	28°39	27°55	27° 2	n.a.	T 7
W 8	2 55 49	13° 9'52	19°50	4° 5	16°38	11°35	27° 9	3°31	0°31	6°10	3°28	28°40	27°52	27° 8	n.a.	W 8
T 9	2 59 46	14°10'59	2♏31	4°59	17°53	12°15	27°22	3°34	0°34	6°11	3°27	28°R40	27°48	27°15	n.a.	T 9
F 10	3 3 43	15°12'07	15°27	5°47	19° 8	12°56	27°34	3°38	0°37	6°11	3°27	28°40	27°45	27°22	n.a.	F 10
S 11	3 7 39	16°13'16	28°40	6°29	20°23	13°37	27°46	3°41	0°40	6°12	3°26	28°38	27°42	27°28	n.a.	S 11
S 12	3 11 36	17°14'25	12♐ 8	7° 4	21°37	14°17	27°58	3°44	0°42	6°13	3°25	28°36	27°39	27°35	n.a.	S 12
M13	3 15 32	18°15'35	25°49	7°31	22°52	14°58	28°11	3°48	0°45	6°14	3°24	28°33	27°36	27°42	n.a.	M13
T 14	3 19 29	19°16'46	9♑41	7°49	24° 8	15°39	28°23	3°51	0°48	6°14	3°24	28°30	27°33	27°48	n.a.	T 14
W15	3 23 25	20°17'57	23°41	7°R58	25°23	16°20	28°36	3°55	0°51	6°15	3°23	28°27	27°29	27°55	n.a.	W15
T 16	3 27 22	21°19'09	7♒47	7°56	26°38	17° 1	28°49	3°58	0°54	6°16	3°22	28°26	27°26	28° 2	n.a.	T 16
F 17	3 31 18	22°20'21	21°56	7°42	27°53	17°42	29° 1	4° 2	0°56	6°17	3°21	28°D25	27°23	28° 9	n.a.	F 17
S 18	3 35 15	23°21'33	6♓ 6	7°18	29° 8	18°22	29°14	4° 6	0°59	6°18	3°21	28°25	27°20	28°15	n.a.	S 18
S 19	3 39 12	24°22'45	20°16	6°41	0♏23	19° 3	29°27	4°10	1° 2	6°19	3°20	28°27	27°17	28°22	n.a.	S 19
M20	3 43 8	25°23'57	4♈23	5°54	1°38	19°44	29°40	4°14	1° 4	6°20	3°19	28°28	27°14	28°29	n.a.	M20
T 21	3 47 5	26°25'10	18°26	4°55	2°53	20°25	29°53	4°18	1° 7	6°21	3°19	28°30	27°10	28°35	n.a.	T 21
W22	3 51 1	27°26'22	2♉21	3°48	4° 8	21° 6	0♑ 6	4°22	1° 9	6°22	3°18	28°R30	27° 7	28°42	n.a.	W22
T 23	3 54 58	28°27'35	16° 7	2°33	5°23	21°47	0°19	4°26	1°12	6°23	3°18	28°29	27° 4	28°49	n.a.	T 23
F 24	3 58 54	29°28'49	29°40	1°13	6°38	22°28	0°32	4°31	1°14	6°24	3°17	28°26	27° 1	28°55	n.a.	F 24
S 25	4 2 51	0♐30'02	12♊57	29♏51	7°54	23° 9	0°45	4°35	1°17	6°25	3°16	28°21	26°58	29° 2	n.a.	S 25
S 26	4 6 48	1°31'16	25°58	28°29	9° 9	23°51	0°58	4°40	1°19	6°27	3°16	28°16	26°54	29° 9	n.a.	S 26
M27	4 10 44	2°32'30	8♋42	27°10	10°24	24°32	1°12	4°44	1°21	6°28	3°15	28°10	26°51	29°16	n.a.	M27
T 28	4 14 41	3°33'45	21° 9	25°57	11°39	25°13	1°25	4°49	1°24	6°29	3°15	28° 4	26°48	29°22	n.a.	T 28
W29	4 18 37	4°35'00	3♌21	24°51	12°54	25°54	1°39	4°54	1°26	6°30	3°14	27°58	26°45	29°29	n.a.	W29
T 30	4 22 34	5♐36'15	15♌22	23♏54	14♏ 9	26♎35	1♑52	4♒59	1♎28	6♒32	3♈14	27♎54	26♎42	29♌36	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s41	16n 4	5s17	21s52	2s27	1s36	1n43	1s57	0n52	23s59	0s20	21s 3	1s26	0n33	0n40	19s36	0s39	14s14	17s 9	11s 6	10s58	8n36		n.a.
T 2	14 1	13 32	5 13	22 10	2 27	2 6	1 42	2 14	0 52	23 59	0 20	21 3	1 26	0 32	0 40	19 35	0 39	14 15	17 9	11 5	10 57	8 34		n.a.
F 3	14 21	10 27	4 56	22 26	2 26	2 36	1 42	2 30	0 51	24 0	0 20	21 2	1 26	0 31	0 40	19 35	0 39	14 15	17 8	11 6	10 56	8 32		n.a.
S 4	14 41	6 58	4 27	22 41	2 24	3 6	1 41	2 47	0 51	24 0	0 20	21 1	1 26	0 30	0 40	19 35	0 39	14 15	17 8	11 6	10 54	8 31		n.a.
S 5	15 1	3 11	3 46	22 54	2 22	3 36	1 41	3 3	0 51	24 0	0 21	21 0	1 26	0 28	0 40	19 35	0 39	14 15	17 8	11 6	10 53	8 29		n.a.
M 6	15 20	0s45	2 55	23 5	2 19	4 6	1 40	3 20	0 50	24 1	0 21	21 0	1 26	0 27	0 40	19 35	0 39	14 15	17 8	11 7	10 52	8 27		n.a.
T 7	15 39	4 44	1 55	23 14	2 16	4 36	1 39	3 36	0 50	24 1	0 21	20 59	1 26	0 26	0 40	19 35	0 39	14 15	17 7	11 7	10 51	8 25		n.a.
W 8	15 58	8 36	0 49	23 21	2 11	5 6	1 39	3 52	0 49	24 1	0 21	20 58	1 26	0 25	0 40	19 35	0 39	14 15	17 7	11 7	10 50	8 23		n.a.
T 9	16 16	12 9	0n21	23 25	2 5	5 35	1 38	4 9	0 49	24 2	0 21	20 57	1 26	0 24	0 40	19 34	0 39	14 16	17 7	11 7	10 49	8 21		n.a.
F 10	16 35	15 12	1 31	23 27	1 58	6 5	1 37	4 25	0 49	24 2	0 21	20 57	1 25	0 22	0 40	19 34	0 39	14 16	17 7	11 7	10 48	8 19		n.a.
S 11	16 53	17 31	2 38	23 26	1 50	6 34	1 36	4 41	0 48	24 2	0 21	20 56	1 25	0 21	0 41	19 34	0 39	14 16	17 6	11 7	10 46	8 17		n.a.
S 12	17 10	18 55	3 37	23 23	1 41	7 4	1 35	4 58	0 48	24 3	0 21	20 55	1 25	0 20	0 41	19 34	0 39	14 16	17 6	11 6	10 45	8 16		n.a.
M13	17 28	19 13	4 25	23 17	1 30	7 33	1 33	5 14	0 47	24 3	0 21	20 54	1 25	0 19	0 41	19 34	0 39	14 16	17 6	11 5	10 44	8 14		n.a.
T 14	17 45	18 24	4 58	23 8	1 18	8 2	1 32	5 30	0 47	24 3	0 21	20 53	1 25	0 18	0 41	19 33	0 39	14 16	17 6	11 4	10 43	8 12		n.a.
W15	18 1	16 27	5 14	22 56	1 4	8 31	1 31	5 47	0 47	24 3	0 21	20 52	1 25	0 17	0 41	19 33	0 39	14 16	17 5	11 3	10 42	8 10		n.a.
T 16	18 18	13 32	5 11	22 41	0 49	8 59	1 30	6 3	0 46	24 4	0 21	20 51	1 25	0 16	0 41	19 33	0 39	14 16	17 5	11 2	10 41	8 8		n.a.
F 17	18 34	9 48	4 49	22 23	0 33	9 28	1 28	6 19	0 46	24 4	0 21	20 50	1 25	0 15	0 41	19 33	0 39	14 16	17 5	11 2	10 39	8 6		n.a.
S 18	18 49	5 31	4 9	22 1	0 15	9 56	1 27	6 35	0 45	24 4	0 21	20 49	1 25	0 13	0 41	19 33	0 39	14 16	17 5	11 2	10 38	8 4		n.a.
S 19	19 5	0 55	3 15	21 37	0n 4	10 24	1 25	6 51	0 45	24 4	0 22	20 48	1 25	0 12	0 41	19 32	0 39	14 16	17 4	11 3	10 37	8 2		n.a.
M20	19 20	3n44	2 9	21 9	0 23	10 52	1 24	7 7	0 44	24 4	0 22	20 47	1 25	0 11	0 41	19 32	0 39	14 16	17 4	11 3	10 36	8 1		n.a.
T 21	19 34	8 9	0 55	20 39	0 43	11 20	1 22	7 23	0 44	24 4	0 22	20 46	1 25	0 10	0 41	19 32	0 39	14 16	17 4	11 4	10 35	7 59		n.a.
W22	19 49	12 6	0s21	20 6	1 4	11 47	1 20	7 39	0 43	24 4	0 22	20 45	1 25	0 9	0 41	19 31	0 39	14 16	17 3	11 4	10 34	7 57		n.a.
T 23	20 2	15 20	1 35	19 32	1 24	12 14	1 19	7 55	0 43	24 4	0 22	20 44	1 25	0 8	0 41	19 31	0 39	14 16	17 3	11 3	10 33	7 55		n.a.
F 24	20 16	17 40	2 42	18 58	1 43	12 40	1 17	8 11	0 43	24 4	0 22	20 43	1 25	0 7	0 41	19 31	0 39	14 16	17 3	11 2	10 31	7 53		n.a.
S 25	20 29	18 59	3 39	18 23	2 1	13 7	1 15	8 27	0 42	24 4	0 22	20 42	1 24	0 7	0 41	19 31	0 39	14 16	17 2	11 1	10 30	7 51		n.a.
S 26	20 42	19 15	4 24	17 50	2 17	13 33	1 13	8 43	0 42	24 4	0 22	20 41	1 24	0 6	0 41	19 30	0 39	14 16	17 2	10 59	10 29	7 49		n.a.
M27	20 54	18 32	4 54	17 18	2 31	13 59	1 11	8 58	0 41	24 4	0 22	20 39	1 24	0 5	0 41	19 30	0 39	14 16	17 2	10 56	10 28	7 47		n.a.
T 28	21 6	16 56	5 9	16 50	2 42	14 24	1 9	9 14	0 41	24 4	0 22	20 38	1 24	0 4	0 41	19 30	0 39	14 16	17 1	10 54	10 27	7 45		n.a.
W29	21 18	14 36	5 10	16 25	2 52	14 49	1 7	9 30	0 40	24 4	0 22	20 37	1 24	0 3	0 41	19 29	0 39	14 15	17 1	10 52	10 26	7 44		n.a.
T 30	21s29	11n41	4s57	16s 4	2n59	15s14	1n 5	9s45	0n40	24s 4	0s22	20s36	1s24	0n 2	0n41	19s29	0s39	14s15	17s 1	10s51	10s24	7n42		n.a.

Julian Day Number = 1674975.5, Delta T = 03h18m32s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'19, Lahiri = - 5°42'18 Julian Calendar 1 Nov. 128 BCE == Greg. Calendar 29 Oct. 128 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 128 BCE
geocentric

DECEMBER 128 BCE (-127) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 26 30	6♐37'30	27♌16	23°R 7	15♏25	27♎17	2♑ 6	5♒ 4	1♎30	6♒33	3°R13	27°R52	26♎39	29♌42	n.a.	F 1
S 2	4 30 27	7°38'46	9♍ 6	22♏31	16°40	27°58	2°19	5° 9	1°32	6°34	3♈13	27°D52	26°35	29°49	n.a.	S 2
S 3	4 34 23	8°40'02	20°59	22° 5	17°55	28°39	2°33	5°14	1°34	6°36	3°13	27♎52	26°32	29°56	n.a.	S 3
M 4	4 38 20	9°41'18	2♎59	21°49	19°10	29°21	2°46	5°19	1°36	6°37	3°12	27°54	26°29	0♍ 2	n.a.	M 4
T 5	4 42 17	10°42'34	15°11	21°D43	20°25	0♏ 2	3° 0	5°24	1°38	6°38	3°12	27°55	26°26	0° 9	n.a.	T 5
W 6	4 46 13	11°43'50	27°41	21°45	21°41	0°43	3°14	5°29	1°40	6°40	3°12	27°R56	26°23	0°16	n.a.	W 6
T 7	4 50 10	12°45'07	10♏30	21°57	22°56	1°25	3°27	5°35	1°42	6°41	3°11	27°55	26°20	0°23	n.a.	T 7
F 8	4 54 6	13°46'23	23°42	22°16	24°11	2° 6	3°41	5°40	1°44	6°43	3°11	27°52	26°16	0°29	n.a.	F 8
S 9	4 58 3	14°47'39	7♐16	22°42	25°26	2°48	3°55	5°46	1°45	6°45	3°11	27°47	26°13	0°36	n.a.	S 9
S 10	5 1 59	15°48'55	21°10	23°15	26°42	3°29	4° 9	5°51	1°47	6°46	3°11	27°40	26°10	0°43	n.a.	S 10
M11	5 5 56	16°50'11	5♑21	23°54	27°57	4°11	4°23	5°57	1°49	6°48	3°10	27°32	26° 7	0°49	n.a.	M11
T 12	5 9 52	17°51'26	19°43	24°37	29°12	4°52	4°37	6° 3	1°50	6°49	3°10	27°23	26° 4	0°56	n.a.	T 12
W13	5 13 49	18°52'40	4♒ 9	25°25	0♐27	5°34	4°51	6° 8	1°52	6°51	3°10	27°15	26° 0	1° 3	n.a.	W13
T 14	5 17 46	19°53'54	18°35	26°18	1°43	6°15	5° 5	6°14	1°53	6°53	3°10	27° 9	25°57	1° 9	n.a.	T 14
F 15	5 21 42	20°55'06	2♓55	27°14	2°58	6°57	5°19	6°20	1°55	6°54	3°10	27° 6	25°54	1°16	n.a.	F 15
S 16	5 25 39	21°56'18	17° 7	28°13	4°13	7°39	5°33	6°26	1°56	6°56	3° 9	27°D 4	25°51	1°23	n.a.	S 16
S 17	5 29 35	22°57'29	1♈ 8	29°16	5°28	8°20	5°47	6°32	1°57	6°58	3° 9	27° 4	25°48	1°30	n.a.	S 17
M18	5 33 32	23°58'39	14°58	0♐21	6°43	9° 2	6° 1	6°38	1°58	7° 0	3° 9	27° 5	25°45	1°36	n.a.	M18
T 19	5 37 28	24°59'48	28°37	1°28	7°59	9°44	6°15	6°44	2° 0	7° 1	3° 9	27°R 6	25°41	1°43	n.a.	T 19
W20	5 41 25	26° 0'56	12♉ 6	2°38	9°14	10°25	6°29	6°50	2° 1	7° 3	3° 9	27° 5	25°38	1°50	n.a.	W20
T 21	5 45 21	27° 2'03	25°25	3°50	10°29	11° 7	6°43	6°56	2° 2	7° 5	3°D 9	27° 1	25°35	1°56	n.a.	T 21
F 22	5 49 18	28° 3'10	8♊34	5° 3	11°44	11°49	6°58	7° 3	2° 3	7° 7	3° 9	26°55	25°32	2° 3	n.a.	F 22
S 23	5 53 15	29° 4'15	21°31	6°18	12°59	12°31	7°12	7° 9	2° 4	7° 9	3° 9	26°46	25°29	2°10	n.a.	S 23
S 24	5 57 11	0♑ 5'20	4♋16	7°35	14°15	13°13	7°26	7°15	2° 5	7°11	3° 9	26°35	25°26	2°16	n.a.	S 24
M25	6 1 8	1° 6'23	16°49	8°53	15°30	13°55	7°40	7°22	2° 6	7°13	3° 9	26°22	25°22	2°23	n.a.	M25
T 26	6 5 4	2° 7'26	29° 9	10°12	16°45	14°36	7°54	7°28	2° 7	7°14	3°10	26°10	25°19	2°30	n.a.	T 26
W27	6 9 1	3° 8'28	11♌18	11°33	18° 0	15°18	8° 9	7°35	2° 7	7°16	3°10	25°58	25°16	2°37	n.a.	W27
T 28	6 12 57	4° 9'29	23°17	12°54	19°15	16° 0	8°23	7°41	2° 8	7°18	3°10	25°49	25°13	2°43	n.a.	T 28
F 29	6 16 54	5°10'29	5♍ 9	14°17	20°30	16°42	8°37	7°48	2° 9	7°20	3°10	25°42	25°10	2°50	n.a.	F 29
S 30	6 20 51	6°11'28	16°58	15°41	21°45	17°24	8°51	7°54	2° 9	7°22	3°10	25°38	25° 6	2°57	n.a.	S 30
S 31	6 24 47	7♑12'27	28♍49	17♐ 6	23♐ 1	18♏ 6	9♑ 6	8♒ 1	2♎10	7♒24	3♈10	25♎36	25♎ 3	3♍ 3	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s40	8n19	4s31	15s48	3n 4	15s38	1n 3	10s 1	0n39	24s 4	0s22	20s34	1s24	0n 1	0n41	19s29	0s39	14s15	17s 1	10s50	10s23	7n40		n.a.
S 2	21 50	4 38	3 54	15 36	3 6	16 2	1 1	10 16	0 39	24 4	0 23	20 33	1 24	0 1	0 41	19 28	0 39	14 15	17 0	10 50	10 22	7 38		n.a.
S 3	22 0	0 45	3 7	15 29	3 7	16 25	0 59	10 31	0 38	24 4	0 23	20 32	1 24	0s 0	0 41	19 28	0 39	14 15	17 0	10 50	10 21	7 36		n.a.
M 4	22 9	3s12	2 11	15 26	3 6	16 48	0 57	10 47	0 38	24 3	0 23	20 31	1 24	0 1	0 41	19 28	0 39	14 15	16 59	10 51	10 20	7 34		n.a.
T 5	22 18	7 6	1 9	15 26	3 4	17 11	0 54	11 2	0 37	24 3	0 23	20 29	1 24	0 2	0 41	19 27	0 39	14 15	16 59	10 51	10 19	7 32		n.a.
W 6	22 27	10 47	0 1	15 31	3 0	17 33	0 52	11 17	0 36	24 3	0 23	20 28	1 24	0 2	0 41	19 27	0 39	14 14	16 59	10 51	10 17	7 30		n.a.
T 7	22 35	14 4	1n 8	15 38	2 55	17 55	0 50	11 32	0 36	24 3	0 23	20 26	1 24	0 3	0 41	19 26	0 39	14 14	16 58	10 51	10 16	7 28		n.a.
F 8	22 43	16 44	2 15	15 48	2 50	18 16	0 48	11 47	0 35	24 2	0 23	20 25	1 24	0 4	0 41	19 26	0 39	14 14	16 58	10 50	10 15	7 27		n.a.
S 9	22 50	18 33	3 16	16 1	2 43	18 36	0 45	12 2	0 35	24 2	0 23	20 24	1 24	0 5	0 41	19 26	0 39	14 14	16 58	10 48	10 14	7 25		n.a.
S 10	22 57	19 18	4 7	16 16	2 36	18 57	0 43	12 17	0 34	24 2	0 23	20 22	1 24	0 5	0 41	19 25	0 39	14 14	16 57	10 46	10 13	7 23		n.a.
M11	23 3	18 52	4 44	16 33	2 29	19 16	0 40	12 32	0 34	24 1	0 23	20 21	1 24	0 6	0 41	19 25	0 39	14 13	16 57	10 43	10 12	7 21		n.a.
T 12	23 9	17 14	5 4	16 51	2 21	19 35	0 38	12 46	0 33	24 1	0 23	20 19	1 24	0 6	0 41	19 24	0 39	14 13	16 57	10 40	10 10	7 19		n.a.
W13	23 14	14 30	5 4	17 11	2 13	19 54	0 36	13 1	0 33	24 1	0 23	20 18	1 24	0 7	0 41	19 24	0 39	14 13	16 56	10 37	10 9	7 17		n.a.
T 14	23 19	10 54	4 46	17 31	2 5	20 12	0 33	13 15	0 32	24 0	0 24	20 16	1 24	0 8	0 41	19 23	0 39	14 13	16 56	10 35	10 8	7 15		n.a.
F 15	23 24	6 41	4 9	17 53	1 56	20 29	0 31	13 30	0 31	24 0	0 24	20 15	1 24	0 8	0 41	19 23	0 39	14 12	16 56	10 33	10 7	7 13		n.a.
S 16	23 28	2 7	3 17	18 15	1 47	20 46	0 28	13 44	0 31	23 59	0 24	20 13	1 24	0 9	0 41	19 23	0 39	14 12	16 55	10 33	10 6	7 11		n.a.
S 17	23 31	2n30	2 15	18 37	1 39	21 2	0 26	13 58	0 30	23 59	0 24	20 12	1 23	0 9	0 42	19 22	0 39	14 12	16 55	10 33	10 5	7 9		n.a.
M18	23 34	6 57	1 5	18 59	1 30	21 18	0 23	14 12	0 30	23 58	0 24	20 10	1 23	0 10	0 42	19 22	0 39	14 11	16 55	10 33	10 3	7 8		n.a.
T 19	23 37	10 59	0s 8	19 22	1 21	21 33	0 21	14 26	0 29	23 57	0 24	20 9	1 23	0 10	0 42	19 21	0 39	14 11	16 54	10 33	10 2	7 6		n.a.
W20	23 39	14 23	1 19	19 45	1 12	21 47	0 18	14 40	0 28	23 57	0 24	20 7	1 23	0 10	0 42	19 21	0 39	14 11	16 54	10 33	10 1	7 4		n.a.
T 21	23 40	16 59	2 25	20 7	1 3	22 1	0 16	14 54	0 28	23 56	0 24	20 5	1 23	0 11	0 42	19 20	0 39	14 10	16 53	10 31	10 0	7 2		n.a.
F 22	23 42	18 39	3 22	20 29	0 55	22 14	0 13	15 7	0 27	23 56	0 24	20 4	1 23	0 11	0 42	19 20	0 39	14 10	16 53	10 29	9 59	7 0		n.a.
S 23	23 42	19 19	4 8	20 51	0 46	22 26	0 11	15 21	0 26	23 55	0 24	20 2	1 23	0 12	0 42	19 19	0 39	14 10	16 53	10 26	9 58	6 58		n.a.
S 24	23 42	18 58	4 40	21 12	0 37	22 38	0 8	15 34	0 26	23 54	0 24	20 0	1 23	0 12	0 42	19 19	0 39	14 9	16 52	10 22	9 56	6 56		n.a.
M25	23 42	17 42	4 58	21 33	0 29	22 49	0 6	15 47	0 25	23 53	0 25	19 59	1 23	0 12	0 42	19 18	0 39	14 9	16 52	10 17	9 55	6 54		n.a.
T 26	23 41	15 38	5 2	21 53	0 21	22 59	0 3	16 1	0 25	23 53	0 25	19 57	1 23	0 13	0 42	19 18	0 39	14 9	16 52	10 13	9 54	6 52		n.a.
W27	23 40	12 54	4 52	22 13	0 12	23 9	0 1	16 14	0 24	23 52	0 25	19 55	1 23	0 13	0 42	19 17	0 39	14 8	16 51	10 9	9 53	6 50		n.a.
T 28	23 39	9 41	4 29	22 32	0 4	23 18	0s 2	16 27	0 23	23 51	0 25	19 54	1 23	0 13	0 42	19 17	0 39	14 8	16 51	10 5	9 52	6 49		n.a.
F 29	23 36	6 6	3 54	22 50	0s 4	23 26	0 4	16 39	0 23	23 50	0 25	19 52	1 23	0 13	0 42	19 16	0 39	14 7	16 51	10 2	9 51	6 47		n.a.
S 30	23 34	2 17	3 10	23 7	0 11	23 34	0 7	16 52	0 22	23 49	0 25	19 50	1 23	0 14	0 42	19 16	0 39	14 7	16 50	10 1	9 49	6 45		n.a.
S 31	23s31	1s37	2s17	23s23	0s19	23s41	0s 9	17s 5	0n21	23s49	0s25	19s48	1s23	0s14	0n42	19s15	0s39	14s 7	16s50	10s 0	9s48	6n43		n.a.

Julian Day Number = 1675005.5, Delta T = 03h18m31s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'15, Lahiri = - 5°42'14 Julian Calendar 1 Dec. 128 BCE == Greg. Calendar 28 Nov. 128 BCE

The year -127 astronomical counting style corresponds to year 128 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

JANUARY 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 28 44	8♑13'24	10♎47	18♐31	24♐16	18♏48	9♑20	8♒ 8	2♎10	7♒26	3♈11	25°D35	25♎ 0	3♍10	n.a.	M 1
T 2	6 32 40	9°14'21	22°56	19°58	25°31	19°30	9°34	8°15	2°11	7°28	3°11	25°R36	24°57	3°17	n.a.	T 2
W 3	6 36 37	10°15'16	5♏24	21°25	26°46	20°13	9°48	8°21	2°11	7°31	3°11	25♎35	24°54	3°23	n.a.	W 3
T 4	6 40 33	11°16'11	18°14	22°54	28° 1	20°55	10° 3	8°28	2°11	7°33	3°12	25°33	24°51	3°30	n.a.	T 4
F 5	6 44 30	12°17'05	1♐30	24°23	29°16	21°37	10°17	8°35	2°12	7°35	3°12	25°29	24°47	3°37	n.a.	F 5
S 6	6 48 26	13°17'58	15°14	25°53	0♑31	22°19	10°31	8°42	2°12	7°37	3°12	25°22	24°44	3°44	n.a.	S 6
S 7	6 52 23	14°18'49	29°24	27°24	1°46	23° 1	10°46	8°49	2°12	7°39	3°13	25°12	24°41	3°50	n.a.	S 7
M 8	6 56 20	15°19'39	13♑56	28°55	3° 1	23°43	11° 0	8°56	2°12	7°41	3°13	25° 0	24°38	3°57	n.a.	M 8
T 9	7 0 16	16°20'28	28°44	0♑27	4°17	24°26	11°14	9° 3	2°R12	7°43	3°13	24°48	24°35	4° 4	n.a.	T 9
W10	7 4 13	17°21'15	13♒39	2° 1	5°32	25° 8	11°28	9°10	2°12	7°45	3°14	24°37	24°32	4°10	n.a.	W10
T 11	7 8 9	18°22'01	28°31	3°35	6°47	25°50	11°43	9°17	2°12	7°48	3°14	24°28	24°28	4°17	n.a.	T 11
F 12	7 12 6	19°22'45	13♓13	5° 9	8° 2	26°32	11°57	9°24	2°12	7°50	3°15	24°22	24°25	4°24	n.a.	F 12
S 13	7 16 2	20°23'27	27°39	6°45	9°17	27°15	12°11	9°31	2°12	7°52	3°15	24°18	24°22	4°30	n.a.	S 13
S 14	7 19 59	21°24'07	11♈46	8°21	10°32	27°57	12°25	9°38	2°11	7°54	3°16	24°17	24°19	4°37	n.a.	S 14
M15	7 23 55	22°24'46	25°35	9°59	11°47	28°39	12°39	9°45	2°11	7°56	3°16	24°17	24°16	4°44	n.a.	M15
T 16	7 27 52	23°25'22	9♉ 5	11°37	13° 2	29°22	12°54	9°53	2°11	7°58	3°17	24°16	24°12	4°50	n.a.	T 16
W17	7 31 49	24°25'57	22°19	13°16	14°17	0♐ 4	13° 8	10° 0	2°10	8° 1	3°18	24°14	24° 9	4°57	n.a.	W17
T 18	7 35 45	25°26'29	5♊19	14°55	15°32	0°47	13°22	10° 7	2°10	8° 3	3°18	24°10	24° 6	5° 4	n.a.	T 18
F 19	7 39 42	26°27'00	18° 7	16°36	16°47	1°29	13°36	10°14	2° 9	8° 5	3°19	24° 3	24° 3	5°11	n.a.	F 19
S 20	7 43 38	27°27'29	0♋44	18°18	18° 2	2°12	13°50	10°22	2° 9	8° 7	3°19	23°52	24° 0	5°17	n.a.	S 20
S 21	7 47 35	28°27'56	13°12	20° 0	19°16	2°54	14° 4	10°29	2° 8	8°10	3°20	23°39	23°57	5°24	n.a.	S 21
M22	7 51 31	29°28'22	25°30	21°44	20°31	3°37	14°18	10°36	2° 8	8°12	3°21	23°25	23°53	5°31	n.a.	M22
T 23	7 55 28	0♒28'45	7♌39	23°28	21°46	4°19	14°32	10°43	2° 7	8°14	3°22	23°11	23°50	5°37	n.a.	T 23
W24	7 59 24	1°29'07	19°41	25°14	23° 1	5° 2	14°46	10°51	2° 6	8°16	3°22	22°57	23°47	5°44	n.a.	W24
T 25	8 3 21	2°29'27	1♍36	27° 0	24°16	5°44	15° 0	10°58	2° 5	8°19	3°23	22°46	23°44	5°51	n.a.	T 25
F 26	8 7 18	3°29'45	13°26	28°47	25°31	6°27	15°14	11° 5	2° 4	8°21	3°24	22°37	23°41	5°57	n.a.	F 26
S 27	8 11 14	4°30'01	25°14	0♒36	26°46	7° 9	15°28	11°13	2° 3	8°23	3°25	22°31	23°37	6° 4	n.a.	S 27
S 28	8 15 11	5°30'16	7♎ 4	2°25	28° 1	7°52	15°42	11°20	2° 2	8°26	3°25	22°28	23°34	6°11	n.a.	S 28
M29	8 19 7	6°30'30	19° 1	4°15	29°16	8°35	15°56	11°28	2° 1	8°28	3°26	22°D27	23°31	6°17	n.a.	M29
T 30	8 23 4	7°30'41	1♏ 8	6° 7	0♒30	9°17	16°10	11°35	2° 0	8°30	3°27	22°27	23°28	6°24	n.a.	T 30
W31	8 27 0	8♒30'51	13♏32	7♒59	1♒45	10♐ 0	16♑23	11♒42	1♎59	8♒32	3♈28	22°R27	23♎25	6♍31	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23s27	5s30	1s18	23s38	0s26	23s47	0s12	17s17	0n20	23s48	0s25	19s47	1s23	0s14	0n42	19s15	0s39	14s 6	16s49	10s 0	9s47	6n41			n.a.
T 2	23 23	9 14	0 14	23 53	0 33	23 52	0 14	17 29	0 20	23 47	0 25	19 45	1 23	0 14	0 42	19 14	0 39	14 6	16 49	10 0	9 46	6 39			n.a.
W 3	23 18	12 39	0n52	24 6	0 40	23 57	0 17	17 41	0 19	23 46	0 25	19 43	1 23	0 14	0 42	19 14	0 39	14 5	16 49	10 0	9 45	6 37			n.a.
T 4	23 13	15 35	1 57	24 18	0 47	24 1	0 19	17 53	0 18	23 45	0 26	19 41	1 23	0 14	0 42	19 13	0 39	14 5	16 48	9 59	9 44	6 35			n.a.
F 5	23 8	17 47	2 58	24 29	0 53	24 4	0 21	18 5	0 18	23 44	0 26	19 39	1 23	0 14	0 42	19 13	0 39	14 4	16 48	9 58	9 42	6 33			n.a.
S 6	23 2	19 3	3 51	24 38	1 0	24 6	0 24	18 17	0 17	23 43	0 26	19 38	1 23	0 14	0 42	19 12	0 39	14 4	16 48	9 55	9 41	6 31			n.a.
S 7	22 56	19 11	4 31	24 47	1 6	24 8	0 26	18 29	0 16	23 42	0 26	19 36	1 23	0 14	0 42	19 12	0 39	14 3	16 47	9 51	9 40	6 30			n.a.
M 8	22 49	18 5	4 55	24 54	1 11	24 9	0 28	18 40	0 15	23 41	0 26	19 34	1 23	0 14	0 42	19 11	0 39	14 3	16 47	9 47	9 39	6 28			n.a.
T 9	22 42	15 45	5 0	24 59	1 17	24 9	0 31	18 51	0 15	23 40	0 26	19 32	1 23	0 14	0 42	19 10	0 39	14 2	16 47	9 43	9 38	6 26			n.a.
W10	22 34	12 22	4 44	25 4	1 22	24 8	0 33	19 2	0 14	23 38	0 26	19 30	1 23	0 14	0 42	19 10	0 39	14 2	16 46	9 38	9 36	6 24			n.a.
T 11	22 26	8 13	4 10	25 7	1 27	24 7	0 35	19 13	0 13	23 37	0 26	19 28	1 23	0 14	0 42	19 9	0 39	14 1	16 46	9 35	9 35	6 22			n.a.
F 12	22 17	3 37	3 19	25 8	1 32	24 5	0 37	19 24	0 12	23 36	0 26	19 26	1 23	0 14	0 42	19 9	0 39	14 1	16 46	9 33	9 34	6 20			n.a.
S 13	22 8	1n 8	2 16	25 8	1 36	24 2	0 39	19 35	0 12	23 35	0 26	19 24	1 23	0 14	0 42	19 8	0 39	14 0	16 45	9 31	9 33	6 18			n.a.
S 14	21 59	5 43	1 6	25 7	1 41	23 58	0 41	19 45	0 11	23 34	0 27	19 22	1 23	0 14	0 42	19 8	0 39	14 0	16 45	9 31	9 32	6 16			n.a.
M15	21 49	9 53	0s 7	25 4	1 44	23 54	0 43	19 55	0 10	23 32	0 27	19 21	1 23	0 14	0 43	19 7	0 39	13 59	16 44	9 31	9 31	6 14			n.a.
T 16	21 39	13 28	1 17	24 59	1 48	23 49	0 46	20 6	0 9	23 31	0 27	19 19	1 23	0 14	0 43	19 6	0 39	13 59	16 44	9 31	9 29	6 12			n.a.
W17	21 28	16 16	2 22	24 53	1 51	23 43	0 48	20 15	0 8	23 30	0 27	19 17	1 23	0 13	0 43	19 6	0 39	13 58	16 44	9 30	9 28	6 10			n.a.
T 18	21 17	18 10	3 18	24 45	1 54	23 37	0 49	20 25	0 7	23 29	0 27	19 15	1 23	0 13	0 43	19 5	0 39	13 58	16 43	9 28	9 27	6 9			n.a.
F 19	21 6	19 7	4 4	24 35	1 56	23 29	0 51	20 35	0 7	23 27	0 27	19 13	1 23	0 13	0 43	19 5	0 39	13 57	16 43	9 26	9 26	6 7			n.a.
S 20	20 54	19 6	4 36	24 24	1 58	23 22	0 53	20 44	0 6	23 26	0 27	19 11	1 24	0 13	0 43	19 4	0 39	13 57	16 43	9 22	9 25	6 5			n.a.
S 21	20 42	18 9	4 55	24 11	2 0	23 13	0 55	20 54	0 5	23 25	0 27	19 9	1 24	0 12	0 43	19 4	0 39	13 56	16 42	9 17	9 23	6 3			n.a.
M22	20 29	16 22	5 0	23 56	2 1	23 3	0 57	21 3	0 4	23 23	0 27	19 7	1 24	0 12	0 43	19 3	0 39	13 56	16 42	9 12	9 22	6 1			n.a.
T 23	20 16	13 53	4 50	23 39	2 2	22 53	0 59	21 12	0 3	23 22	0 28	19 5	1 24	0 12	0 43	19 2	0 39	13 55	16 42	9 6	9 21	5 59			n.a.
W24	20 3	10 50	4 28	23 20	2 3	22 43	1 0	21 20	0 2	23 20	0 28	19 3	1 24	0 11	0 43	19 2	0 39	13 54	16 41	9 1	9 20	5 57			n.a.
T 25	19 49	7 22	3 55	23 0	2 3	22 31	1 2	21 29	0 2	23 19	0 28	19 1	1 24	0 11	0 43	19 1	0 39	13 54	16 41	8 57	9 19	5 55			n.a.
F 26	19 35	3 39	3 11	22 38	2 2	22 19	1 4	21 37	0 1	23 17	0 28	18 59	1 24	0 11	0 43	19 1	0 39	13 53	16 41	8 54	9 18	5 53			n.a.
S 27	19 21	0s13	2 19	22 13	2 1	22 6	1 5	21 45	0s 0	23 16	0 28	18 57	1 24	0 10	0 43	19 0	0 39	13 53	16 41	8 52	9 16	5 51			n.a.
S 28	19 6	4 4	1 21	21 47	2 0	21 53	1 7	21 53	0 1	23 14	0 28	18 55	1 24	0 10	0 43	18 59	0 39	13 52	16 40	8 50	9 15	5 49			n.a.
M29	18 51	7 48	0 18	21 19	1 58	21 39	1 8	22 1	0 2	23 13	0 28	18 53	1 24	0 9	0 43	18 59	0 39	13 51	16 40	8 50	9 14	5 48			n.a.
T 30	18 36	11 17	0n46	20 49	1 56	21 24	1 9	22 8	0 3	23 11	0 28	18 51	1 24	0 9	0 43	18 58	0 39	13 51	16 40	8 50	9 13	5 46			n.a.
W31	18s20	14s20	1n50	20s18	1s53	21s 8	1s11	22s16	0s 4	23s10	0s29	18s49	1s24	0s 9	0n43	18s58	0s39	13s50	16s39	8s50	9s12	5n44			n.a.

Julian Day Number = 1675036.5, Delta T = 03h18m30s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'11, Lahiri = - 5°42'10 Julian Calendar 1 Jan. 127 BCE == Greg. Calendar 29 Dec. 128 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

FEBRUARY 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 30 57	9♒30'59	26♏17	9♒52	3♒ 0	10♐43	16♑37	11♒50	1°R58	8♒35	3♈29	22°R26	23♎22	6♍37	n.a.	T 1
F 2	8 34 53	10°31'06	9♐29	11°46	4°15	11°26	16°51	11°57	1♎57	8°37	3°30	22♎23	23°18	6°44	n.a.	F 2
S 3	8 38 50	11°31'11	23°10	13°41	5°30	12° 8	17° 4	12° 5	1°56	8°39	3°30	22°17	23°15	6°51	n.a.	S 3
S 4	8 42 47	12°31'14	7♑21	15°36	6°44	12°51	17°18	12°12	1°54	8°41	3°31	22° 9	23°12	6°58	n.a.	S 4
M 5	8 46 43	13°31'16	22° 0	17°32	7°59	13°34	17°32	12°19	1°53	8°44	3°32	21°59	23° 9	7° 4	n.a.	M 5
T 6	8 50 40	14°31'15	6♒59	19°29	9°14	14°17	17°45	12°27	1°51	8°46	3°33	21°48	23° 6	7°11	n.a.	T 6
W 7	8 54 36	15°31'13	22°10	21°26	10°29	15° 0	17°59	12°34	1°50	8°48	3°34	21°38	23° 3	7°18	n.a.	W 7
T 8	8 58 33	16°31'08	7♓23	23°24	11°43	15°42	18°12	12°41	1°48	8°51	3°35	21°30	22°59	7°24	n.a.	T 8
F 9	9 2 29	17°31'01	22°26	25°21	12°58	16°25	18°26	12°49	1°47	8°53	3°36	21°25	22°56	7°31	n.a.	F 9
S 10	9 6 26	18°30'52	7♈11	27°18	14°13	17° 8	18°39	12°56	1°45	8°55	3°37	21°22	22°53	7°38	n.a.	S 10
S 11	9 10 22	19°30'40	21°34	29°15	15°28	17°51	18°52	13° 4	1°44	8°57	3°38	21°D21	22°50	7°44	n.a.	S 11
M12	9 14 19	20°30'27	5♉32	1♓11	16°42	18°34	19° 5	13°11	1°42	9° 0	3°39	21°21	22°47	7°51	n.a.	M12
T 13	9 18 15	21°30'11	19° 7	3° 5	17°57	19°17	19°19	13°18	1°40	9° 2	3°40	21°R22	22°43	7°58	n.a.	T 13
W14	9 22 12	22°29'52	2♊19	4°59	19°11	20° 0	19°32	13°26	1°39	9° 4	3°41	21°22	22°40	8° 4	n.a.	W14
T 15	9 26 9	23°29'31	15°12	6°50	20°26	20°42	19°45	13°33	1°37	9° 6	3°43	21°19	22°37	8°11	n.a.	T 15
F 16	9 30 5	24°29'08	27°49	8°39	21°41	21°25	19°58	13°40	1°35	9° 8	3°44	21°14	22°34	8°18	n.a.	F 16
S 17	9 34 2	25°28'42	10♋13	10°25	22°55	22° 8	20°11	13°48	1°33	9°11	3°45	21° 7	22°31	8°24	n.a.	S 17
S 18	9 37 58	26°28'14	22°27	12° 8	24°10	22°51	20°24	13°55	1°31	9°13	3°46	20°58	22°28	8°31	n.a.	S 18
M19	9 41 55	27°27'44	4♌33	13°48	25°24	23°34	20°36	14° 2	1°29	9°15	3°47	20°48	22°24	8°38	n.a.	M19
T 20	9 45 51	28°27'11	16°32	15°23	26°39	24°17	20°49	14° 9	1°27	9°17	3°48	20°38	22°21	8°44	n.a.	T 20
W21	9 49 48	29°26'37	28°27	16°53	27°53	25° 0	21° 2	14°17	1°25	9°19	3°49	20°28	22°18	8°51	n.a.	W21
T 22	9 53 44	0♓26'00	10♍18	18°19	29° 8	25°43	21°15	14°24	1°23	9°22	3°51	20°20	22°15	8°58	n.a.	T 22
F 23	9 57 41	1°25'20	22° 7	19°39	0♓22	26°26	21°27	14°31	1°21	9°24	3°52	20°14	22°12	9° 5	n.a.	F 23
S 24	10 1 38	2°24'39	3♎57	20°53	1°37	27° 9	21°40	14°38	1°19	9°26	3°53	20°10	22° 9	9°11	n.a.	S 24
S 25	10 5 34	3°23'56	15°49	22° 1	2°51	27°52	21°52	14°45	1°17	9°28	3°54	20°D 8	22° 5	9°18	n.a.	S 25
M26	10 9 31	4°23'11	27°48	23° 3	4° 6	28°35	22° 5	14°53	1°15	9°30	3°55	20° 9	22° 2	9°25	n.a.	M26
T 27	10 13 27	5°22'24	9♏58	23°58	5°20	29°18	22°17	15° 0	1°13	9°32	3°57	20°10	21°59	9°31	n.a.	T 27
W28	10 17 24	6♓21'35	22♏22	24♓46	6♓35	0♑ 1	22♑29	15♒ 7	1♎10	9♒34	3♈58	20♎11	21♎56	9♍38	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 4	16s48	2n49	19s44	1s49	20s52	1s12	22s23	0s 5	23s 8	0s29	18s47	1s24	0s 8	0n43	18s57	0s39	13s50	16s39	8s50	9s10	5n42		n.a.
F 2	17 48	18 27	3 43	19 8	1 45	20 36	1 13	22 30	0 6	23 7	0 29	18 45	1 24	0 7	0 43	18 56	0 39	13 49	16 39	8 48	9 9	5 40		n.a.
S 3	17 31	19 7	4 25	18 31	1 41	20 19	1 14	22 37	0 7	23 5	0 29	18 43	1 24	0 7	0 43	18 56	0 39	13 48	16 38	8 46	9 8	5 38		n.a.
S 4	17 14	18 38	4 53	17 51	1 35	20 1	1 16	22 43	0 8	23 3	0 29	18 41	1 24	0 6	0 43	18 55	0 39	13 48	16 38	8 43	9 7	5 36		n.a.
M 5	16 57	16 55	5 3	17 10	1 30	19 42	1 17	22 50	0 9	23 2	0 29	18 38	1 24	0 6	0 43	18 55	0 39	13 47	16 38	8 39	9 6	5 34		n.a.
T 6	16 40	14 1	4 52	16 27	1 23	19 24	1 18	22 56	0 10	23 0	0 29	18 36	1 24	0 5	0 43	18 54	0 39	13 46	16 38	8 35	9 4	5 32		n.a.
W 7	16 22	10 9	4 21	15 43	1 16	19 4	1 19	23 2	0 11	22 58	0 30	18 34	1 24	0 5	0 43	18 54	0 39	13 46	16 37	8 32	9 3	5 30		n.a.
T 8	16 4	5 38	3 32	14 57	1 8	18 44	1 19	23 7	0 12	22 57	0 30	18 32	1 24	0 4	0 43	18 53	0 39	13 45	16 37	8 29	9 2	5 28		n.a.
F 9	15 45	0 47	2 28	14 9	1 0	18 23	1 20	23 13	0 13	22 55	0 30	18 30	1 25	0 3	0 43	18 52	0 39	13 45	16 37	8 26	9 1	5 27		n.a.
S 10	15 27	4n 2	1 15	13 20	0 51	18 2	1 21	23 18	0 14	22 53	0 30	18 28	1 25	0 3	0 43	18 52	0 39	13 44	16 37	8 25	9 0	5 25		n.a.
S 11	15 8	8 29	0s 1	12 31	0 41	17 41	1 22	23 23	0 15	22 52	0 30	18 26	1 25	0 2	0 43	18 51	0 39	13 43	16 36	8 25	8 59	5 23		n.a.
M12	14 49	12 20	1 15	11 40	0 31	17 19	1 22	23 28	0 16	22 50	0 30	18 24	1 25	0 1	0 43	18 51	0 39	13 43	16 36	8 25	8 57	5 21		n.a.
T 13	14 30	15 24	2 23	10 48	0 20	16 56	1 23	23 33	0 17	22 48	0 30	18 22	1 25	0 1	0 43	18 50	0 39	13 42	16 36	8 25	8 56	5 19		n.a.
W14	14 10	17 35	3 21	9 56	0 9	16 33	1 23	23 37	0 18	22 46	0 31	18 20	1 25	0n 0	0 43	18 49	0 39	13 41	16 36	8 25	8 55	5 17		n.a.
T 15	13 50	18 47	4 7	9 4	0n 3	16 10	1 24	23 41	0 19	22 45	0 31	18 18	1 25	0 1	0 43	18 49	0 39	13 41	16 35	8 24	8 54	5 15		n.a.
F 16	13 30	19 1	4 40	8 11	0 15	15 46	1 24	23 45	0 20	22 43	0 31	18 16	1 25	0 2	0 43	18 48	0 39	13 40	16 35	8 23	8 53	5 13		n.a.
S 17	13 10	18 20	5 0	7 19	0 27	15 22	1 25	23 49	0 21	22 41	0 31	18 14	1 25	0 2	0 43	18 48	0 39	13 39	16 35	8 20	8 51	5 11		n.a.
S 18	12 50	16 48	5 5	6 28	0 40	14 57	1 25	23 53	0 22	22 39	0 31	18 12	1 25	0 3	0 43	18 47	0 39	13 39	16 35	8 16	8 50	5 9		n.a.
M19	12 29	14 32	4 57	5 38	0 53	14 32	1 25	23 56	0 23	22 37	0 31	18 10	1 25	0 4	0 43	18 47	0 39	13 38	16 34	8 13	8 49	5 7		n.a.
T 20	12 9	11 41	4 35	4 49	1 6	14 6	1 25	23 59	0 24	22 36	0 31	18 8	1 25	0 5	0 44	18 46	0 40	13 37	16 34	8 9	8 48	5 5		n.a.
W21	11 48	8 22	4 2	4 1	1 19	13 40	1 25	24 2	0 25	22 34	0 32	18 6	1 26	0 6	0 44	18 45	0 40	13 37	16 34	8 5	8 47	5 4		n.a.
T 22	11 27	4 45	3 18	3 16	1 32	13 14	1 25	24 4	0 26	22 32	0 32	18 4	1 26	0 6	0 44	18 45	0 40	13 36	16 34	8 2	8 45	5 2		n.a.
F 23	11 5	0 56	2 25	2 32	1 45	12 48	1 25	24 7	0 27	22 30	0 32	18 2	1 26	0 7	0 44	18 44	0 40	13 36	16 34	8 0	8 44	5 0		n.a.
S 24	10 44	2s54	1 26	1 51	1 58	12 21	1 25	24 9	0 28	22 28	0 32	18 0	1 26	0 8	0 44	18 44	0 40	13 35	16 33	7 58	8 43	4 58		n.a.
S 25	10 22	6 39	0 23	1 13	2 10	11 53	1 25	24 11	0 29	22 26	0 32	17 57	1 26	0 9	0 44	18 43	0 40	13 34	16 33	7 57	8 42	4 56		n.a.
M26	10 1	10 10	0n41	0 38	2 21	11 26	1 25	24 13	0 31	22 24	0 32	17 55	1 26	0 10	0 44	18 43	0 40	13 34	16 33	7 58	8 41	4 54		n.a.
T 27	9 39	13 18	1 45	0 6	2 32	10 58	1 24	24 14	0 32	22 23	0 33	17 53	1 26	0 11	0 44	18 42	0 40	13 33	16 33	7 58	8 39	4 52		n.a.
W28	9s17	15s54	2n46	0n23	2n43	10s30	1s24	24s15	0s33	22s21	0s33	17s51	1s26	0n12	0n44	18s42	0s40	13s32	16s33	7s59	8s38	4n50		n.a.

Julian Day Number = 1675067.5, Delta T = 03h18m29s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'06, Lahiri = - 5°42'06 Julian Calendar 1 Feb. 127 BCE == Greg. Calendar 29 Jan. 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

MARCH 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 21 20	7♓20'44	5♐ 5	25♓28	7♓49	0♉44	22♉41	15♒14	1°R 8	9♒36	3♈59	20°R12	21♎53	9♍45	n.a.	T 1
F 2	10 25 17	8°19'52	18°12	26° 2	9° 4	1°27	22°53	15°21	1♎ 6	9°38	4° 0	20♎12	21°49	9°51	n.a.	F 2
S 3	10 29 13	9°18'57	1♉45	26°28	10°18	2°11	23° 5	15°28	1° 4	9°40	4° 2	20°10	21°46	9°58	n.a.	S 3
S 4	10 33 10	10°18'01	15°47	26°48	11°32	2°54	23°17	15°35	1° 1	9°42	4° 3	20° 6	21°43	10° 5	n.a.	S 4
M 5	10 37 6	11°17'03	0♒17	27° 0	12°47	3°37	23°29	15°42	0°59	9°44	4° 4	20° 1	21°40	10°11	n.a.	M 5
T 6	10 41 3	12°16'03	15°10	27°R 6	14° 1	4°20	23°41	15°49	0°56	9°46	4° 5	19°55	21°37	10°18	n.a.	T 6
W 7	10 45 0	13°15'01	0♓19	27° 4	15°15	5° 3	23°52	15°56	0°54	9°48	4° 7	19°50	21°34	10°25	n.a.	W 7
T 8	10 48 56	14°13'57	15°35	26°56	16°30	5°46	24° 4	16° 2	0°52	9°50	4° 8	19°45	21°30	10°31	n.a.	T 8
F 9	10 52 53	15°12'50	0♈47	26°41	17°44	6°29	24°16	16° 9	0°49	9°52	4° 9	19°42	21°27	10°38	n.a.	F 9
S 10	10 56 49	16°11'42	15°45	26°21	18°58	7°12	24°27	16°16	0°47	9°54	4°11	19°D41	21°24	10°45	n.a.	S 10
S 11	11 0 46	17°10'31	0♉22	25°55	20°12	7°55	24°38	16°23	0°44	9°56	4°12	19°41	21°21	10°51	n.a.	S 11
M12	11 4 42	18° 9'18	14°34	25°24	21°27	8°38	24°49	16°29	0°42	9°58	4°13	19°43	21°18	10°58	n.a.	M12
T 13	11 8 39	19° 8'02	28°19	24°49	22°41	9°21	25° 1	16°36	0°39	10° 0	4°15	19°44	21°14	11° 5	n.a.	T 13
W14	11 12 35	20° 6'45	11♊37	24°10	23°55	10° 4	25°12	16°43	0°37	10° 2	4°16	19°45	21°11	11°11	n.a.	W14
T 15	11 16 32	21° 5'25	24°33	23°29	25° 9	10°47	25°23	16°49	0°34	10° 4	4°17	19°R45	21° 8	11°18	n.a.	T 15
F 16	11 20 29	22° 4'02	7♋ 9	22°46	26°23	11°30	25°33	16°56	0°32	10° 6	4°19	19°44	21° 5	11°25	n.a.	F 16
S 17	11 24 25	23° 2'38	19°28	22° 2	27°38	12°13	25°44	17° 2	0°29	10° 7	4°20	19°42	21° 2	11°31	n.a.	S 17
S 18	11 28 22	24° 1'11	1♌36	21°18	28°52	12°56	25°55	17° 9	0°27	10° 9	4°21	19°39	20°59	11°38	n.a.	S 18
M19	11 32 18	24°59'41	13°34	20°34	0♈ 6	13°39	26° 5	17°15	0°24	10°11	4°23	19°35	20°55	11°45	n.a.	M19
T 20	11 36 15	25°58'10	25°27	19°52	1°20	14°22	26°16	17°21	0°22	10°13	4°24	19°31	20°52	11°51	n.a.	T 20
W21	11 40 11	26°56'36	7♍17	19°12	2°34	15° 5	26°26	17°28	0°19	10°14	4°25	19°27	20°49	11°58	n.a.	W21
T 22	11 44 8	27°55'01	19° 7	18°35	3°48	15°48	26°36	17°34	0°17	10°16	4°27	19°24	20°46	12° 5	n.a.	T 22
F 23	11 48 4	28°53'23	0♎58	18° 0	5° 2	16°31	26°46	17°40	0°14	10°18	4°28	19°22	20°43	12°12	n.a.	F 23
S 24	11 52 1	29°51'43	12°52	17°30	6°16	17°14	26°56	17°46	0°12	10°19	4°30	19°21	20°40	12°18	n.a.	S 24
S 25	11 55 57	0♈50'02	24°53	17° 4	7°30	17°57	27° 6	17°52	0° 9	10°21	4°31	19°D21	20°36	12°25	n.a.	S 25
M26	11 59 54	1°48'19	7♏ 1	16°42	8°44	18°40	27°16	17°58	0° 6	10°22	4°32	19°22	20°33	12°32	n.a.	M26
T 27	12 3 51	2°46'34	19°19	16°25	9°58	19°23	27°26	18° 4	0° 4	10°24	4°34	19°23	20°30	12°38	n.a.	T 27
W28	12 7 47	3°44'47	1♐51	16°13	11°12	20° 6	27°35	18°10	0° 1	10°26	4°35	19°24	20°27	12°45	n.a.	W28
T 29	12 11 44	4°42'59	14°39	16° 6	12°26	20°49	27°45	18°16	29♍59	10°27	4°37	19°25	20°24	12°52	n.a.	T 29
F 30	12 15 40	5°41'09	27°47	16°D 4	13°40	21°32	27°54	18°22	29°56	10°29	4°38	19°26	20°20	12°58	n.a.	F 30
S 31	12 19 37	6♈39'18	11♉16	16♓ 7	14♈54	22♉15	28♉ 3	18♒28	29♍54	10♒30	4♈39	19°R26	20♎17	13♍ 5	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	8s55	17s47	3n40	0n48	2n52	10s 1	1s24	24s16	0s34	22s19	0s33	17s49	1s26	0n13	0n44	18s41	0s40	13s32	16s32	7s59	8s37	4n48			n.a.
F 2	8 32	18 48	4 24	1 10	3 1	9 33	1 23	24 17	0 35	22 17	0 33	17 47	1 27	0 14	0 44	18 40	0 40	13 31	16 32	7 59	8 36	4 46			n.a.
S 3	8 10	18 47	4 55	1 28	3 9	9 4	1 23	24 18	0 36	22 15	0 33	17 45	1 27	0 14	0 44	18 40	0 40	13 30	16 32	7 58	8 35	4 44			n.a.
S 4	7 47	17 38	5 10	1 42	3 15	8 35	1 22	24 18	0 37	22 13	0 33	17 43	1 27	0 15	0 44	18 39	0 40	13 30	16 32	7 56	8 33	4 42			n.a.
M 5	7 25	15 20	5 6	1 51	3 20	8 5	1 21	24 18	0 39	22 11	0 34	17 41	1 27	0 16	0 44	18 39	0 40	13 29	16 32	7 55	8 32	4 41			n.a.
T 6	7 2	11 59	4 41	1 57	3 24	7 36	1 21	24 18	0 40	22 10	0 34	17 39	1 27	0 17	0 44	18 38	0 40	13 28	16 32	7 52	8 31	4 39			n.a.
W 7	6 39	7 47	3 57	1 59	3 27	7 6	1 20	24 18	0 41	22 8	0 34	17 38	1 27	0 18	0 44	18 38	0 40	13 28	16 32	7 50	8 30	4 37			n.a.
T 8	6 16	3 3	2 55	1 57	3 28	6 36	1 19	24 17	0 42	22 6	0 34	17 36	1 27	0 19	0 44	18 37	0 40	13 27	16 31	7 49	8 29	4 35			n.a.
F 9	5 53	1n52	1 41	1 50	3 28	6 6	1 18	24 16	0 43	22 4	0 34	17 34	1 27	0 20	0 44	18 37	0 40	13 26	16 31	7 47	8 27	4 33			n.a.
S 10	5 30	6 36	0 22	1 40	3 26	5 35	1 17	24 15	0 45	22 2	0 34	17 32	1 27	0 21	0 44	18 36	0 40	13 26	16 31	7 47	8 26	4 31			n.a.
S 11	5 7	10 49	0s58	1 27	3 22	5 5	1 16	24 14	0 46	22 0	0 35	17 30	1 28	0 22	0 44	18 36	0 40	13 25	16 31	7 47	8 25	4 29			n.a.
M12	4 44	14 17	2 12	1 9	3 17	4 34	1 15	24 12	0 47	21 58	0 35	17 28	1 28	0 23	0 44	18 35	0 40	13 25	16 31	7 48	8 24	4 27			n.a.
T 13	4 21	16 49	3 16	0 49	3 10	4 4	1 14	24 11	0 48	21 57	0 35	17 26	1 28	0 24	0 44	18 35	0 40	13 24	16 31	7 48	8 23	4 25			n.a.
W14	3 58	18 21	4 7	0 26	3 2	3 33	1 13	24 9	0 50	21 55	0 35	17 24	1 28	0 25	0 44	18 34	0 40	13 23	16 31	7 49	8 21	4 23			n.a.
T 15	3 34	18 52	4 44	0 1	2 52	3 2	1 11	24 6	0 51	21 53	0 35	17 22	1 28	0 26	0 44	18 34	0 40	13 23	16 31	7 49	8 20	4 21			n.a.
F 16	3 11	18 25	5 6	0s27	2 41	2 31	1 10	24 4	0 52	21 51	0 35	17 20	1 28	0 27	0 44	18 33	0 40	13 22	16 31	7 48	8 19	4 19			n.a.
S 17	2 47	17 6	5 14	0 55	2 29	2 0	1 9	24 1	0 53	21 49	0 36	17 18	1 28	0 28	0 44	18 33	0 40	13 21	16 30	7 47	8 18	4 18			n.a.
S 18	2 24	15 2	5 7	1 25	2 15	1 29	1 7	23 59	0 55	21 47	0 36	17 17	1 29	0 29	0 44	18 32	0 40	13 21	16 30	7 46	8 17	4 16			n.a.
M19	2 1	12 21	4 47	1 56	2 1	0 58	1 6	23 55	0 56	21 46	0 36	17 15	1 29	0 30	0 44	18 32	0 40	13 20	16 30	7 45	8 15	4 14			n.a.
T 20	1 37	9 11	4 15	2 27	1 45	0 27	1 4	23 52	0 57	21 44	0 36	17 13	1 29	0 31	0 44	18 32	0 40	13 20	16 30	7 43	8 14	4 12			n.a.
W21	1 14	5 40	3 31	2 57	1 30	0n 4	1 3	23 49	0 58	21 42	0 36	17 11	1 29	0 32	0 44	18 31	0 40	13 19	16 30	7 42	8 13	4 10			n.a.
T 22	0 50	1 55	2 39	3 26	1 14	0 36	1 1	23 45	1 0	21 40	0 37	17 9	1 29	0 33	0 44	18 31	0 40	13 18	16 30	7 41	8 12	4 8			n.a.
F 23	0 27	1s55	1 40	3 55	0 57	1 7	0 59	23 41	1 1	21 38	0 37	17 8	1 29	0 34	0 44	18 30	0 40	13 18	16 30	7 40	8 11	4 6			n.a.
S 24	0 3	5 41	0 36	4 22	0 41	1 38	0 58	23 37	1 2	21 37	0 37	17 6	1 30	0 35	0 44	18 30	0 40	13 17	16 30	7 39	8 9	4 4			n.a.
S 25	0n20	9 16	0n31	4 47	0 24	2 9	0 56	23 32	1 4	21 35	0 37	17 4	1 30	0 36	0 44	18 29	0 40	13 17	16 30	7 39	8 8	4 2			n.a.
M26	0 44	12 30	1 36	5 11	0 8	2 40	0 54	23 28	1 5	21 33	0 37	17 2	1 30	0 37	0 44	18 29	0 40	13 16	16 30	7 40	8 7	4 0			n.a.
T 27	1 7	15 13	2 38	5 32	0s 8	3 11	0 52	23 23	1 6	21 31	0 38	17 1	1 30	0 38	0 44	18 29	0 40	13 16	16 30	7 40	8 6	3 58			n.a.
W28	1 30	17 16	3 34	5 51	0 23	3 42	0 50	23 18	1 8	21 30	0 38	16 59	1 30	0 40	0 44	18 28	0 40	13 15	16 30	7 41	8 4	3 56			n.a.
T 29	1 54	18 30	4 21	6 7	0 38	4 13	0 48	23 13	1 9	21 28	0 38	16 57	1 30	0 41	0 44	18 28	0 40	13 14	16 30	7 41	8 3	3 55			n.a.
F 30	2 17	18 47	4 55	6 21	0 52	4 44	0 46	23 7	1 10	21 26	0 38	16 56	1 30	0 42	0 44	18 27	0 40	13 14	16 30	7 41	8 2	3 53			n.a.
S 31	2n40	18s 1	5n14	6s33	1s 6	5n15	0s44	23s 2	1s12	21s25	0s38	16s54	1s31	0n43	0n44	18s27	0s40	13s13	16s30	7s41	8s 1	3n51			n.a.

Julian Day Number = 1675095.5, Delta T = 03h18m28s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°49'03, Lahiri = - 5°42'02 Julian Calendar 1 March 127 BCE == Greg. Calendar 26 Feb. 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

APRIL 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 23 33	7♈37'25	25♉ 8	16♓14	16♈ 8	22♉58	28♉12	18♒34	29°R51	10♒31	4♈41	19°R26	20♎14	13♍12	n.a.	S 1
M 2	12 27 30	8°35'31	9♒24	16°26	17°21	23°40	28°21	18°39	29♍49	10°33	4°42	19♎25	20°11	13°18	n.a.	M 2
T 3	12 31 26	9°33'35	24° 0	16°43	18°35	24°23	28°30	18°45	29°46	10°34	4°43	19°24	20° 8	13°25	n.a.	T 3
W 4	12 35 23	10°31'37	8♓53	17° 5	19°49	25° 6	28°39	18°50	29°44	10°36	4°45	19°22	20° 5	13°32	n.a.	W 4
T 5	12 39 20	11°29'38	23°55	17°30	21° 3	25°49	28°47	18°56	29°41	10°37	4°46	19°22	20° 1	13°38	n.a.	T 5
F 6	12 43 16	12°27'37	8♈59	18° 0	22°17	26°32	28°56	19° 1	29°39	10°38	4°48	19°21	19°58	13°45	n.a.	F 6
S 7	12 47 13	13°25'35	23°54	18°35	23°30	27°14	29° 4	19° 7	29°36	10°40	4°49	19°D21	19°55	13°52	n.a.	S 7
S 8	12 51 9	14°23'31	8♉34	19°13	24°44	27°57	29°12	19°12	29°34	10°41	4°50	19°21	19°52	13°58	n.a.	S 8
M 9	12 55 6	15°21'26	22°52	19°54	25°58	28°39	29°20	19°17	29°31	10°42	4°52	19°22	19°49	14° 5	n.a.	M 9
T 10	12 59 2	16°19'18	6♊45	20°40	27°12	29°22	29°28	19°22	29°29	10°43	4°53	19°22	19°46	14°12	n.a.	T 10
W11	13 2 59	17°17'09	20°11	21°29	28°25	0♒ 5	29°36	19°27	29°26	10°44	4°54	19°22	19°42	14°18	n.a.	W11
T 12	13 6 55	18°14'58	3♋13	22°21	29°39	0°47	29°43	19°32	29°24	10°46	4°56	19°22	19°39	14°25	n.a.	T 12
F 13	13 10 52	19°12'45	15°52	23°17	0♉53	1°30	29°51	19°37	29°22	10°47	4°57	19°22	19°36	14°32	n.a.	F 13
S 14	13 14 49	20°10'30	28°13	24°15	2° 7	2°12	29°58	19°42	29°19	10°48	4°58	19°22	19°33	14°38	n.a.	S 14
S 15	13 18 45	21° 8'13	10♌19	25°17	3°20	2°54	0♒ 5	19°47	29°17	10°49	5° 0	19°23	19°30	14°45	n.a.	S 15
M16	13 22 42	22° 5'55	22°16	26°22	4°34	3°37	0°12	19°51	29°15	10°50	5° 1	19°23	19°26	14°52	n.a.	M16
T 17	13 26 38	23° 3'35	4♍ 6	27°29	5°47	4°19	0°19	19°56	29°13	10°51	5° 2	19°23	19°23	14°58	n.a.	T 17
W18	13 30 35	24° 1'13	15°55	28°40	7° 1	5° 1	0°26	20° 1	29°10	10°52	5° 4	19°24	19°20	15° 5	n.a.	W18
T 19	13 34 31	24°58'50	27°46	29°53	8°14	5°43	0°32	20° 5	29° 8	10°53	5° 5	19°24	19°17	15°12	n.a.	T 19
F 20	13 38 28	25°56'25	9♎41	1♈ 8	9°28	6°26	0°39	20°10	29° 6	10°54	5° 6	19°24	19°14	15°18	n.a.	F 20
S 21	13 42 24	26°53'59	21°44	2°27	10°42	7° 8	0°45	20°14	29° 4	10°54	5° 8	19°R25	19°11	15°25	n.a.	S 21
S 22	13 46 21	27°51'32	3♏55	3°47	11°55	7°50	0°51	20°18	29° 2	10°55	5° 9	19°24	19° 7	15°32	n.a.	S 22
M23	13 50 17	28°49'03	16°18	5°11	13° 9	8°32	0°57	20°22	28°59	10°56	5°10	19°24	19° 4	15°38	n.a.	M23
T 24	13 54 14	29°46'33	28°53	6°37	14°22	9°14	1° 3	20°26	28°57	10°57	5°12	19°22	19° 1	15°45	n.a.	T 24
W25	13 58 11	0♉44'02	11♐41	8° 5	15°35	9°56	1° 8	20°30	28°55	10°58	5°13	19°21	18°58	15°52	n.a.	W25
T 26	14 2 7	1°41'31	24°43	9°35	16°49	10°38	1°14	20°34	28°53	10°58	5°14	19°19	18°55	15°58	n.a.	T 26
F 27	14 6 4	2°38'58	8♑ 1	11° 9	18° 2	11°19	1°19	20°38	28°51	10°59	5°15	19°18	18°51	16° 5	n.a.	F 27
S 28	14 10 0	3°36'24	21°34	12°44	19°16	12° 1	1°24	20°42	28°49	11° 0	5°17	19°17	18°48	16°12	n.a.	S 28
S 29	14 13 57	4°33'50	5♒23	14°22	20°29	12°43	1°29	20°46	28°47	11° 0	5°18	19°D17	18°45	16°18	n.a.	S 29
M30	14 17 53	5♉31'14	19♒29	16♈ 2	21♉42	13♒24	1♒34	20♒49	28♍46	11♒ 1	5♈19	19♎17	18♎42	16♍25	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 3	16s11	5n15	6s42	1s19	5n46	0s42	22s56	1s13	21s23	0s39	16s52	1s31	0n44	0n44	18s27	0s40	13s13	16s30	7s41	8s 0	3n49		n.a.
M 2	3 27	13 19	4 58	6 48	1 31	6 16	0 40	22 50	1 14	21 21	0 39	16 51	1 31	0 45	0 44	18 26	0 41	13 12	16 30	7 41	7 58	3 47		n.a.
T 3	3 50	9 34	4 21	6 52	1 42	6 46	0 38	22 43	1 16	21 20	0 39	16 49	1 31	0 46	0 44	18 26	0 41	13 12	16 30	7 40	7 57	3 45		n.a.
W 4	4 13	5 9	3 26	6 53	1 53	7 17	0 36	22 37	1 17	21 18	0 39	16 47	1 31	0 47	0 44	18 26	0 41	13 11	16 30	7 40	7 56	3 43		n.a.
T 5	4 36	0 21	2 17	6 52	2 3	7 47	0 34	22 30	1 18	21 17	0 40	16 46	1 32	0 48	0 44	18 25	0 41	13 11	16 30	7 40	7 55	3 41		n.a.
F 6	4 59	4n28	0 57	6 48	2 12	8 17	0 32	22 23	1 20	21 15	0 40	16 44	1 32	0 49	0 44	18 25	0 41	13 10	16 30	7 39	7 54	3 39		n.a.
S 7	5 21	8 59	0s25	6 43	2 20	8 46	0 29	22 16	1 21	21 14	0 40	16 43	1 32	0 50	0 44	18 25	0 41	13 10	16 30	7 39	7 52	3 37		n.a.
S 8	5 44	12 52	1 45	6 34	2 27	9 16	0 27	22 9	1 23	21 12	0 40	16 41	1 32	0 50	0 44	18 24	0 41	13 9	16 30	7 39	7 51	3 35		n.a.
M 9	6 7	15 52	2 56	6 24	2 34	9 45	0 25	22 2	1 24	21 11	0 40	16 40	1 32	0 51	0 44	18 24	0 41	13 9	16 30	7 40	7 50	3 33		n.a.
T 10	6 29	17 50	3 54	6 11	2 40	10 14	0 23	21 54	1 25	21 9	0 41	16 38	1 32	0 52	0 44	18 24	0 41	13 8	16 30	7 40	7 49	3 31		n.a.
W11	6 52	18 44	4 38	5 56	2 45	10 43	0 20	21 47	1 27	21 8	0 41	16 37	1 33	0 53	0 44	18 23	0 41	13 8	16 30	7 40	7 48	3 30		n.a.
T 12	7 14	18 35	5 5	5 39	2 50	11 12	0 18	21 39	1 28	21 6	0 41	16 36	1 33	0 54	0 44	18 23	0 41	13 7	16 30	7 40	7 46	3 28		n.a.
F 13	7 36	17 30	5 17	5 21	2 53	11 40	0 16	21 31	1 30	21 5	0 41	16 34	1 33	0 55	0 44	18 23	0 41	13 7	16 30	7 40	7 45	3 26		n.a.
S 14	7 58	15 37	5 14	5 0	2 56	12 8	0 13	21 22	1 31	21 4	0 42	16 33	1 33	0 56	0 44	18 23	0 41	13 6	16 30	7 40	7 44	3 24		n.a.
S 15	8 20	13 5	4 57	4 37	2 58	12 36	0 11	21 14	1 33	21 2	0 42	16 31	1 33	0 57	0 44	18 22	0 41	13 6	16 30	7 40	7 43	3 22		n.a.
M16	8 42	10 2	4 27	4 12	3 0	13 3	0 8	21 5	1 34	21 1	0 42	16 30	1 34	0 58	0 43	18 22	0 41	13 5	16 30	7 40	7 41	3 20		n.a.
T 17	9 4	6 36	3 46	3 46	3 1	13 30	0 6	20 56	1 35	21 0	0 42	16 29	1 34	0 59	0 43	18 22	0 41	13 5	16 31	7 40	7 40	3 18		n.a.
W18	9 25	2 55	2 56	3 18	3 1	13 57	0 3	20 47	1 37	20 59	0 43	16 28	1 34	1 0	0 43	18 22	0 41	13 4	16 31	7 40	7 39	3 16		n.a.
T 19	9 47	0s54	1 57	2 48	3 0	14 24	0 1	20 38	1 38	20 57	0 43	16 26	1 34	1 1	0 43	18 21	0 41	13 4	16 31	7 41	7 38	3 14		n.a.
F 20	10 8	4 42	0 54	2 16	2 59	14 50	0n 2	20 29	1 40	20 56	0 43	16 25	1 34	1 2	0 43	18 21	0 41	13 4	16 31	7 41	7 37	3 12		n.a.
S 21	10 29	8 22	0n13	1 43	2 57	15 16	0 4	20 20	1 41	20 55	0 43	16 24	1 35	1 2	0 43	18 21	0 41	13 3	16 31	7 41	7 35	3 10		n.a.
S 22	10 50	11 43	1 20	1 9	2 55	15 41	0 6	20 10	1 43	20 54	0 44	16 23	1 35	1 3	0 43	18 21	0 41	13 3	16 31	7 41	7 34	3 8		n.a.
M23	11 11	14 36	2 24	0 32	2 52	16 6	0 9	20 0	1 44	20 53	0 44	16 22	1 35	1 4	0 43	18 21	0 41	13 2	16 31	7 40	7 33	3 7		n.a.
T 24	11 31	16 51	3 22	0n 5	2 48	16 31	0 11	19 51	1 46	20 52	0 44	16 20	1 35	1 5	0 43	18 20	0 41	13 2	16 31	7 40	7 32	3 5		n.a.
W25	11 51	18 18	4 11	0 44	2 44	16 55	0 14	19 41	1 47	20 51	0 44	16 19	1 35	1 6	0 43	18 20	0 41	13 2	16 31	7 39	7 30	3 3		n.a.
T 26	12 12	18 48	4 48	1 25	2 39	17 19	0 16	19 30	1 49	20 50	0 45	16 18	1 36	1 6	0 43	18 20	0 41	13 1	16 32	7 39	7 29	3 1		n.a.
F 27	12 32	18 18	5 10	2 7	2 33	17 42	0 19	19 20	1 50	20 49	0 45	16 17	1 36	1 7	0 43	18 20	0 41	13 1	16 32	7 38	7 28	2 59		n.a.
S 28	12 52	16 45	5 16	2 50	2 27	18 5	0 21	19 10	1 52	20 48	0 45	16 16	1 36	1 8	0 43	18 20	0 41	13 0	16 32	7 38	7 27	2 57		n.a.
S 29	13 11	14 13	5 4	3 34	2 21	18 27	0 24	18 59	1 53	20 47	0 45	16 15	1 36	1 9	0 43	18 20	0 41	13 0	16 32	7 38	7 26	2 55		n.a.
M30	13n31	10s49	4n34	4n19	2s14	18n49	0n26	18s49	1s55	20s46	0s46	16s14	1s37	1n 9	0n43	18s19	0s41	13s 0	16s32	7s38	7s24	2n53		n.a.

Julian Day Number = 1675126.5, Delta T = 03h18m27s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'58, Lahiri = - 5°41'58 Julian Calendar 1 Apr. 127 BCE == Greg. Calendar 29 March 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

MAY 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 50	6♉28'38	3♓48	17♈45	22♉56	14♒ 6	1♒39	20♒53	28°R44	11♒ 1	5♈20	19♎18	18♎39	16♏32	n.a.	T 1
W 2	14 25 46	7°26'01	18°20	19°30	24° 9	14°47	1°43	20°56	28♏42	11° 2	5°21	19°19	18°36	16°38	n.a.	W 2
T 3	14 29 43	8°23'24	2♈59	21°17	25°22	15°29	1°47	21° 0	28°40	11° 2	5°23	19°20	18°32	16°45	n.a.	T 3
F 4	14 33 40	9°20'45	17°41	23° 7	26°36	16°10	1°51	21° 3	28°38	11° 3	5°24	19°R21	18°29	16°52	n.a.	F 4
S 5	14 37 36	10°18'06	2♉19	24°58	27°49	16°51	1°55	21° 6	28°37	11° 3	5°25	19°21	18°26	16°58	n.a.	S 5
S 6	14 41 33	11°15'26	16°47	26°53	29° 2	17°33	1°59	21° 9	28°35	11° 4	5°26	19°19	18°23	17° 5	n.a.	S 6
M 7	14 45 29	12°12'45	0♊59	28°49	0♊16	18°14	2° 3	21°12	28°33	11° 4	5°27	19°17	18°20	17°12	n.a.	M 7
T 8	14 49 26	13°10'03	14°50	0♉48	1°29	18°55	2° 6	21°15	28°32	11° 4	5°28	19°13	18°17	17°18	n.a.	T 8
W 9	14 53 22	14° 7'20	28°18	2°48	2°42	19°35	2° 9	21°18	28°30	11° 5	5°30	19°10	18°13	17°25	n.a.	W 9
T 10	14 57 19	15° 4'37	11♋23	4°51	3°55	20°16	2°12	21°21	28°29	11° 5	5°31	19° 6	18°10	17°32	n.a.	T 10
F 11	15 1 15	16° 1'52	24° 5	6°55	5° 9	20°57	2°15	21°23	28°27	11° 5	5°32	19° 4	18° 7	17°38	n.a.	F 11
S 12	15 5 12	16°59'06	6♌28	9° 1	6°22	21°38	2°18	21°26	28°26	11° 5	5°33	19° 2	18° 4	17°45	n.a.	S 12
S 13	15 9 9	17°56'19	18°35	11° 9	7°35	22°18	2°20	21°28	28°24	11° 6	5°34	19°D 2	18° 1	17°52	n.a.	S 13
M14	15 13 5	18°53'32	0♏32	13°18	8°48	22°58	2°22	21°31	28°23	11° 6	5°35	19° 2	17°57	17°58	n.a.	M14
T 15	15 17 2	19°50'43	12°22	15°27	10° 1	23°39	2°25	21°33	28°22	11° 6	5°36	19° 4	17°54	18° 5	n.a.	T 15
W16	15 20 58	20°47'54	24°12	17°38	11°14	24°19	2°26	21°35	28°21	11° 6	5°37	19° 5	17°51	18°12	n.a.	W16
T 17	15 24 55	21°45'04	6♎ 5	19°49	12°27	24°59	2°28	21°37	28°19	11° 6	5°38	19° 7	17°48	18°18	n.a.	T 17
F 18	15 28 51	22°42'13	18° 5	22° 1	13°40	25°39	2°30	21°39	28°18	11°R 6	5°39	19°R 7	17°45	18°25	n.a.	F 18
S 19	15 32 48	23°39'21	0♏17	24°13	14°53	26°19	2°31	21°41	28°17	11° 6	5°40	19° 7	17°42	18°32	n.a.	S 19
S 20	15 36 44	24°36'29	12°41	26°24	16° 6	26°59	2°32	21°43	28°16	11° 6	5°41	19° 5	17°38	18°38	n.a.	S 20
M21	15 40 41	25°33'37	25°21	28°35	17°19	27°38	2°33	21°44	28°15	11° 6	5°42	19° 1	17°35	18°45	n.a.	M21
T 22	15 44 38	26°30'44	8♐16	0♊45	18°32	28°18	2°34	21°46	28°14	11° 6	5°43	18°56	17°32	18°52	n.a.	T 22
W23	15 48 34	27°27'51	21°26	2°54	19°45	28°57	2°35	21°47	28°13	11° 5	5°44	18°50	17°29	18°58	n.a.	W23
T 24	15 52 31	28°24'57	4♑51	5° 1	20°58	29°36	2°35	21°49	28°12	11° 5	5°45	18°43	17°26	19° 5	n.a.	T 24
F 25	15 56 27	29°22'04	18°28	7° 8	22°11	0♓15	2°35	21°50	28°12	11° 5	5°46	18°38	17°23	19°12	n.a.	F 25
S 26	16 0 24	0♊19'11	2♒15	9°13	23°24	0°54	2°R35	21°51	28°11	11° 5	5°47	18°33	17°19	19°18	n.a.	S 26
S 27	16 4 20	1°16'17	16°12	11°16	24°37	1°33	2°35	21°52	28°10	11° 5	5°48	18°30	17°16	19°25	n.a.	S 27
M28	16 8 17	2°13'24	0♓16	13°17	25°50	2°12	2°35	21°53	28° 9	11° 4	5°48	18°D29	17°13	19°32	n.a.	M28
T 29	16 12 14	3°10'30	14°26	15°17	27° 2	2°51	2°34	21°54	28° 9	11° 4	5°49	18°30	17°10	19°38	n.a.	T 29
W30	16 16 10	4° 7'37	28°40	17°14	28°15	3°29	2°33	21°55	28° 8	11° 3	5°50	18°31	17° 7	19°45	n.a.	W30
T 31	16 20 7	5♊ 4'45	12♈57	19♊10	29♊28	4♓ 7	2♒32	21♒56	28♏ 8	11♒ 3	5♈51	18°R32	17♎ 3	19♏52	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n50	6s43	3n46	5n 6	2s 6	19n11	0n29	18s38	1s56	20s46	0s46	16s13	1s37	1n10	0n43	18s19	0s41	12s59	16s32	7s38	7s23	2n51			n.a.
W 2	14 9	2 10	2 43	5 53	1 58	19 31	0 31	18 27	1 58	20 45	0 46	16 12	1 37	1 11	0 43	18 19	0 42	12 59	16 32	7 39	7 22	2 49			n.a.
T 3	14 28	2n34	1 29	6 42	1 50	19 52	0 34	18 16	1 59	20 44	0 46	16 12	1 37	1 12	0 43	18 19	0 42	12 59	16 33	7 39	7 21	2 47			n.a.
F 4	14 46	7 9	0 9	7 31	1 41	20 12	0 36	18 5	2 1	20 44	0 47	16 11	1 37	1 12	0 43	18 19	0 42	12 58	16 33	7 39	7 19	2 45			n.a.
S 5	15 4	11 18	1s11	8 21	1 32	20 31	0 38	17 54	2 2	20 43	0 47	16 10	1 38	1 13	0 43	18 19	0 42	12 58	16 33	7 39	7 18	2 44			n.a.
S 6	15 23	14 43	2 26	9 12	1 22	20 50	0 41	17 42	2 4	20 42	0 47	16 9	1 38	1 14	0 43	18 19	0 42	12 58	16 33	7 39	7 17	2 42			n.a.
M 7	15 40	17 10	3 30	10 3	1 12	21 8	0 43	17 31	2 5	20 42	0 47	16 8	1 38	1 14	0 43	18 19	0 42	12 58	16 33	7 38	7 16	2 40			n.a.
T 8	15 58	18 32	4 20	10 55	1 2	21 26	0 45	17 19	2 7	20 41	0 48	16 8	1 38	1 15	0 43	18 19	0 42	12 57	16 34	7 36	7 15	2 38			n.a.
W 9	16 15	18 48	4 54	11 47	0 51	21 43	0 48	17 8	2 8	20 41	0 48	16 7	1 39	1 15	0 43	18 19	0 42	12 57	16 34	7 35	7 13	2 36			n.a.
T 10	16 32	18 3	5 11	12 39	0 41	21 59	0 50	16 56	2 10	20 40	0 48	16 6	1 39	1 16	0 43	18 19	0 42	12 57	16 34	7 34	7 12	2 34			n.a.
F 11	16 49	16 24	5 13	13 30	0 30	22 15	0 52	16 44	2 11	20 40	0 49	16 6	1 39	1 16	0 43	18 19	0 42	12 56	16 34	7 33	7 11	2 32			n.a.
S 12	17 6	14 2	5 0	14 22	0 19	22 31	0 55	16 33	2 13	20 40	0 49	16 5	1 39	1 17	0 43	18 19	0 42	12 56	16 34	7 32	7 10	2 30			n.a.
S 13	17 22	11 5	4 34	15 13	0 8	22 45	0 57	16 21	2 14	20 39	0 49	16 4	1 40	1 18	0 43	18 19	0 42	12 56	16 35	7 32	7 8	2 28			n.a.
M14	17 38	7 44	3 56	16 3	0n 3	22 59	0 59	16 9	2 16	20 39	0 49	16 4	1 40	1 18	0 43	18 19	0 42	12 56	16 35	7 32	7 7	2 26			n.a.
T 15	17 54	4 6	3 8	16 52	0 13	23 12	1 1	15 57	2 17	20 39	0 50	16 3	1 40	1 19	0 43	18 19	0 42	12 56	16 35	7 33	7 6	2 24			n.a.
W16	18 9	0 18	2 12	17 40	0 24	23 25	1 3	15 44	2 19	20 39	0 50	16 3	1 40	1 19	0 43	18 19	0 42	12 55	16 35	7 33	7 5	2 22			n.a.
T 17	18 24	3s31	1 11	18 26	0 34	23 37	1 5	15 32	2 20	20 39	0 50	16 2	1 41	1 19	0 43	18 19	0 42	12 55	16 35	7 34	7 4	2 21			n.a.
F 18	18 39	7 16	0 6	19 11	0 44	23 48	1 7	15 20	2 22	20 39	0 50	16 2	1 41	1 20	0 43	18 19	0 42	12 55	16 36	7 34	7 2	2 19			n.a.
S 19	18 54	10 45	1n 1	19 53	0 53	23 59	1 9	15 8	2 23	20 39	0 51	16 2	1 41	1 20	0 42	18 19	0 42	12 55	16 36	7 34	7 1	2 17			n.a.
S 20	19 8	13 50	2 5	20 34	1 2	24 9	1 11	14 55	2 25	20 39	0 51	16 1	1 41	1 21	0 42	18 19	0 42	12 55	16 36	7 33	7 0	2 15			n.a.
M21	19 22	16 20	3 5	21 12	1 10	24 18	1 13	14 43	2 26	20 39	0 51	16 1	1 41	1 21	0 42	18 19	0 42	12 55	16 36	7 32	6 59	2 13			n.a.
T 22	19 36	18 3	3 56	21 48	1 18	24 27	1 15	14 30	2 28	20 39	0 52	16 1	1 42	1 21	0 42	18 19	0 42	12 54	16 37	7 30	6 57	2 11			n.a.
W23	19 49	18 51	4 36	22 22	1 25	24 35	1 17	14 18	2 29	20 39	0 52	16 0	1 42	1 22	0 42	18 19	0 42	12 54	16 37	7 27	6 56	2 9			n.a.
T 24	20 2	18 36	5 1	22 53	1 32	24 42	1 18	14 5	2 31	20 39	0 52	16 0	1 42	1 22	0 42	18 19	0 42	12 54	16 37	7 25	6 55	2 7			n.a.
F 25	20 14	17 18	5 10	23 21	1 37	24 48	1 20	13 53	2 32	20 39	0 52	16 0	1 42	1 22	0 42	18 19	0 42	12 54	16 37	7 23	6 54	2 5			n.a.
S 26	20 27	14 59	5 1	23 46	1 43	24 54	1 22	13 40	2 34	20 39	0 53	16 0	1 43	1 23	0 42	18 19	0 42	12 54	16 38	7 21	6 53	2 3			n.a.
S 27	20 39	11 47	4 35	24 9	1 47	24 59	1 23	13 27	2 35	20 40	0 53	16 0	1 43	1 23	0 42	18 19	0 42	12 54	16 38	7 20	6 51	2 1			n.a.
M28	20 50	7 54	3 52	24 29	1 51	25 3	1 25	13 15	2 37	20 40	0 53	16 0	1 43	1 23	0 42	18 19	0 42	12 54	16 38	7 20	6 50	1 59			n.a.
T 29	21 2	3 31	2 54	24 46	1 54	25 7	1 26	13 2	2 38	20 41	0 54	16 0	1 43	1 23	0 42	18 20	0 42	12 54	16 38	7 20	6 49	1 58			n.a.
W30	21 13	1n 4	1 45	25 1	1 56	25 9	1 28	12 49	2 40	20 41	0 54	15 59	1 44	1 23	0 42	18 20	0 42	12 54	16 39	7 20	6 48	1 56			n.a.
T 31	21n23	5n38	0n30	25n13	1n58	25n11	1n29	12s36	2s41	20s42	0s54	15s59	1s44	1n24	0n42	18s20	0s43	12s53	16s39	7s21	6s46	1n54			n.a.

Julian Day Number = 1675156.5, Delta T = 03h18m26s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'54, Lahiri = - 5°41'54 Julian Calendar 1 May 127 BCE == Greg. Calendar 28 Apr. 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

JUNE 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 24 3	6♊ 1'52	27♈14	21♊ 4	0♋41	4♓45	2°R31	21♒56	28°R 7	11°R 3	5♈52	18°R32	17♎ 0	19♍58	n.a.	F 1
S 2	16 28 0	6°58'59	11♉27	22°56	1°54	5°23	2♒30	21°57	28♍ 7	11♒ 2	5°52	18♎30	16°57	20° 5	n.a.	S 2
S 3	16 31 56	7°56'07	25°33	24°45	3° 6	6° 1	2°28	21°57	28° 6	11° 2	5°53	18°25	16°54	20°12	n.a.	S 3
M 4	16 35 53	8°53'15	9♊27	26°33	4°19	6°39	2°26	21°58	28° 6	11° 1	5°54	18°19	16°51	20°18	n.a.	M 4
T 5	16 39 49	9°50'23	23° 5	28°18	5°32	7°16	2°25	21°58	28° 6	11° 1	5°55	18°11	16°48	20°25	n.a.	T 5
W 6	16 43 46	10°47'31	6♋25	0♋ 2	6°44	7°53	2°22	21°R58	28° 6	11° 0	5°55	18° 2	16°44	20°32	n.a.	W 6
T 7	16 47 43	11°44'39	19°25	1°43	7°57	8°30	2°20	21°58	28° 6	10°59	5°56	17°54	16°41	20°38	n.a.	T 7
F 8	16 51 39	12°41'47	2♌ 5	3°22	9°10	9° 7	2°18	21°58	28° 5	10°59	5°57	17°46	16°38	20°45	n.a.	F 8
S 9	16 55 36	13°38'56	14°27	5° 0	10°22	9°44	2°15	21°57	28°D 5	10°58	5°57	17°40	16°35	20°52	n.a.	S 9
S 10	16 59 32	14°36'04	26°34	6°35	11°35	10°20	2°12	21°57	28° 5	10°57	5°58	17°36	16°32	20°58	n.a.	S 10
M11	17 3 29	15°33'12	8♍30	8° 8	12°47	10°56	2° 9	21°57	28° 5	10°57	5°58	17°34	16°28	21° 5	n.a.	M11
T 12	17 7 25	16°30'20	20°21	9°39	14° 0	11°32	2° 6	21°56	28° 6	10°56	5°59	17°D34	16°25	21°12	n.a.	T 12
W13	17 11 22	17°27'28	2♎11	11° 8	15°12	12° 8	2° 2	21°56	28° 6	10°55	6° 0	17°35	16°22	21°18	n.a.	W13
T 14	17 15 18	18°24'36	14° 5	12°34	16°25	12°44	1°59	21°55	28° 6	10°54	6° 0	17°R36	16°19	21°25	n.a.	T 14
F 15	17 19 15	19°21'45	26° 9	13°59	17°37	13°19	1°55	21°54	28° 6	10°53	6° 1	17°35	16°16	21°32	n.a.	F 15
S 16	17 23 12	20°18'54	8♏27	15°21	18°50	13°54	1°51	21°53	28° 7	10°52	6° 1	17°33	16°13	21°38	n.a.	S 16
S 17	17 27 8	21°16'03	21° 2	16°41	20° 2	14°29	1°47	21°52	28° 7	10°52	6° 2	17°29	16° 9	21°45	n.a.	S 17
M18	17 31 5	22°13'12	3♐57	17°59	21°14	15° 4	1°43	21°51	28° 7	10°51	6° 2	17°22	16° 6	21°52	n.a.	M18
T 19	17 35 1	23°10'22	17°12	19°14	22°27	15°38	1°38	21°50	28° 8	10°50	6° 3	17°13	16° 3	21°58	n.a.	T 19
W20	17 38 58	24° 7'33	0♑46	20°27	23°39	16°12	1°34	21°48	28° 8	10°49	6° 3	17° 3	16° 0	22° 5	n.a.	W20
T 21	17 42 54	25° 4'44	14°36	21°38	24°51	16°46	1°29	21°47	28° 9	10°48	6° 3	16°52	15°57	22°11	n.a.	T 21
F 22	17 46 51	26° 1'56	28°39	22°46	26° 3	17°20	1°24	21°46	28°10	10°47	6° 4	16°43	15°54	22°18	n.a.	F 22
S 23	17 50 47	26°59'09	12♒49	23°52	27°15	17°54	1°19	21°44	28°10	10°46	6° 4	16°35	15°50	22°25	n.a.	S 23
S 24	17 54 44	27°56'22	27° 2	24°54	28°28	18°27	1°14	21°42	28°11	10°45	6° 4	16°29	15°47	22°31	n.a.	S 24
M25	17 58 41	28°53'37	11♓16	25°54	29°40	19° 0	1° 8	21°40	28°12	10°43	6° 5	16°26	15°44	22°38	n.a.	M25
T 26	18 2 37	29°50'53	25°26	26°51	0♌52	19°32	1° 3	21°39	28°13	10°42	6° 5	16°D25	15°41	22°45	n.a.	T 26
W27	18 6 34	0♋48'10	9♈33	27°45	2° 4	20° 4	0°57	21°37	28°13	10°41	6° 5	16°R25	15°38	22°51	n.a.	W27
T 28	18 10 30	1°45'28	23°35	28°36	3°16	20°36	0°51	21°35	28°14	10°40	6° 6	16°25	15°34	22°58	n.a.	T 28
F 29	18 14 27	2°42'47	7♉31	29°24	4°28	21° 8	0°45	21°32	28°15	10°39	6° 6	16°23	15°31	23° 5	n.a.	F 29
S 30	18 18 23	3♋40'07	21♉20	0♌ 8	5♌40	21♓39	0♒39	21♒30	28♍16	10♒38	6♈ 6	16♎20	15♎28	23♍11	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n33	9n52	0s47	25n23	1n59	25n13	1n30	12s24	2s43	20s42	0s54	16s 0	1s44	1n24	0n42	18s20	0s43	12s53	16s39	7s20	6s45	1n52		n.a.
S 2	21 43	13 32	2 1	25 30	1 59	25 13	1 32	12 11	2 44	20 43	0 55	16 0	1 44	1 24	0 42	18 20	0 43	12 53	16 40	7 20	6 44	1 50		n.a.
S 3	21 53	16 21	3 6	25 35	1 59	25 13	1 33	11 58	2 46	20 43	0 55	16 0	1 45	1 24	0 42	18 20	0 43	12 53	16 40	7 18	6 43	1 48		n.a.
M 4	22 2	18 10	3 59	25 37	1 58	25 12	1 34	11 46	2 47	20 44	0 55	16 0	1 45	1 24	0 42	18 21	0 43	12 53	16 40	7 16	6 41	1 46		n.a.
T 5	22 11	18 54	4 38	25 38	1 56	25 10	1 35	11 33	2 49	20 45	0 56	16 0	1 45	1 24	0 42	18 21	0 43	12 53	16 40	7 13	6 40	1 44		n.a.
W 6	22 19	18 33	5 0	25 36	1 54	25 8	1 36	11 20	2 50	20 45	0 56	16 0	1 45	1 24	0 42	18 21	0 43	12 53	16 41	7 9	6 39	1 42		n.a.
T 7	22 27	17 14	5 6	25 32	1 51	25 5	1 37	11 7	2 52	20 46	0 56	16 0	1 46	1 24	0 42	18 21	0 43	12 53	16 41	7 6	6 38	1 40		n.a.
F 8	22 34	15 6	4 57	25 27	1 47	25 1	1 38	10 55	2 53	20 47	0 56	16 1	1 46	1 24	0 42	18 21	0 43	12 53	16 41	7 3	6 37	1 38		n.a.
S 9	22 42	12 19	4 34	25 20	1 43	24 56	1 39	10 42	2 55	20 48	0 57	16 1	1 46	1 24	0 42	18 22	0 43	12 53	16 42	7 1	6 35	1 37		n.a.
S 10	22 48	9 3	3 59	25 11	1 39	24 51	1 39	10 30	2 56	20 49	0 57	16 1	1 46	1 24	0 42	18 22	0 43	12 53	16 42	6 59	6 34	1 35		n.a.
M11	22 55	5 29	3 14	25 0	1 33	24 45	1 40	10 17	2 58	20 50	0 57	16 2	1 47	1 24	0 42	18 22	0 43	12 53	16 42	6 58	6 33	1 33		n.a.
T 12	23 1	1 43	2 21	24 49	1 28	24 38	1 40	10 4	2 59	20 51	0 58	16 2	1 47	1 24	0 42	18 22	0 43	12 53	16 43	6 58	6 32	1 31		n.a.
W13	23 7	2s 7	1 22	24 35	1 21	24 30	1 41	9 52	3 1	20 52	0 58	16 3	1 47	1 24	0 41	18 23	0 43	12 54	16 43	6 59	6 30	1 29		n.a.
T 14	23 12	5 54	0 19	24 21	1 15	24 22	1 41	9 39	3 2	20 53	0 58	16 3	1 47	1 24	0 41	18 23	0 43	12 54	16 43	6 59	6 29	1 27		n.a.
F 15	23 17	9 30	0n46	24 5	1 8	24 13	1 42	9 27	3 4	20 54	0 58	16 4	1 48	1 24	0 41	18 23	0 43	12 54	16 43	6 59	6 28	1 25		n.a.
S 16	23 21	12 45	1 49	23 48	1 0	24 3	1 42	9 15	3 5	20 55	0 59	16 4	1 48	1 23	0 41	18 23	0 43	12 54	16 44	6 58	6 27	1 23		n.a.
S 17	23 25	15 30	2 49	23 31	0 52	23 53	1 42	9 2	3 7	20 56	0 59	16 5	1 48	1 23	0 41	18 24	0 43	12 54	16 44	6 56	6 25	1 21		n.a.
M18	23 29	17 34	3 41	23 12	0 43	23 42	1 42	8 50	3 8	20 58	0 59	16 5	1 48	1 23	0 41	18 24	0 43	12 54	16 44	6 54	6 24	1 19		n.a.
T 19	23 32	18 44	4 23	22 53	0 34	23 30	1 42	8 38	3 10	20 59	0 59	16 6	1 49	1 23	0 41	18 24	0 43	12 54	16 45	6 50	6 23	1 17		n.a.
W20	23 35	18 52	4 51	22 32	0 25	23 18	1 42	8 26	3 11	21 0	1 0	16 7	1 49	1 23	0 41	18 24	0 43	12 54	16 45	6 46	6 22	1 15		n.a.
T 21	23 37	17 53	5 2	22 12	0 15	23 4	1 42	8 14	3 13	21 2	1 0	16 7	1 49	1 22	0 41	18 25	0 43	12 54	16 45	6 42	6 21	1 14		n.a.
F 22	23 39	15 50	4 56	21 51	0 5	22 51	1 42	8 2	3 14	21 3	1 0	16 8	1 49	1 22	0 41	18 25	0 43	12 54	16 46	6 38	6 19	1 12		n.a.
S 23	23 40	12 48	4 32	21 29	0s 5	22 36	1 42	7 50	3 16	21 4	1 0	16 9	1 50	1 22	0 41	18 25	0 43	12 55	16 46	6 35	6 18	1 10		n.a.
S 24	23 42	9 2	3 51	21 7	0 16	22 21	1 41	7 38	3 17	21 6	1 1	16 9	1 50	1 21	0 41	18 26	0 43	12 55	16 46	6 33	6 17	1 8		n.a.
M25	23 42	4 43	2 55	20 45	0 27	22 6	1 41	7 26	3 18	21 7	1 1	16 10	1 50	1 21	0 41	18 26	0 43	12 55	16 47	6 32	6 16	1 6		n.a.
T 26	23 42	0 10	1 49	20 23	0 39	21 49	1 41	7 15	3 20	21 9	1 1	16 11	1 50	1 21	0 41	18 26	0 43	12 55	16 47	6 31	6 14	1 4		n.a.
W27	23 42	4n23	0 36	20 1	0 51	21 33	1 40	7 3	3 21	21 10	1 1	16 12	1 50	1 20	0 41	18 27	0 43	12 55	16 47	6 31	6 13	1 2		n.a.
T 28	23 42	8 40	0s38	19 39	1 3	21 15	1 39	6 52	3 23	21 12	1 2	16 13	1 51	1 20	0 41	18 27	0 43	12 56	16 48	6 31	6 12	1 0		n.a.
F 29	23 41	12 27	1 49	19 17	1 15	20 57	1 38	6 40	3 24	21 13	1 2	16 14	1 51	1 19	0 41	18 27	0 43	12 56	16 48	6 31	6 11	0 58		n.a.
S 30	23n39	15n30	2s54	18n56	1s27	20n39	1n38	6s29	3s26	21s15	1s 2	16s15	1s51	1n19	0n41	18s28	0s43	12s56	16s48	6s29	6s 9	0n56		n.a.

Julian Day Number = 1675187.5, Delta T = 03h18m25s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'50, Lahiri = - 5°41'50 Julian Calendar 1 June 127 BCE == Greg. Calendar 29 May 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

JULY 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 22 20	4♋37'29	5♊ 0	0♌48	6♌52	22♓10	0°R33	21°R28	28♍18	10°R36	6♈ 6	16°R13	15♎25	23♍18	n.a.	S 1
M 2	18 26 16	5°34'51	18°31	1°25	8° 4	22°41	0♒26	21♒25	28°19	10♒35	6° 6	16♎ 4	15°22	23°25	n.a.	M 2
T 3	18 30 13	6°32'15	1♋49	1°57	9°15	23°11	0°20	21°23	28°20	10°34	6° 7	15°53	15°19	23°31	n.a.	T 3
W 4	18 34 10	7°29'40	14°53	2°26	10°27	23°41	0°13	21°20	28°21	10°32	6° 7	15°40	15°15	23°38	n.a.	W 4
T 5	18 38 6	8°27'06	27°40	2°50	11°39	24°11	0° 7	21°18	28°22	10°31	6° 7	15°28	15°12	23°45	n.a.	T 5
F 6	18 42 3	9°24'33	10♌12	3° 9	12°51	24°40	29♑59	21°15	28°24	10°30	6° 7	15°16	15° 9	23°51	n.a.	F 6
S 7	18 45 59	10°22'00	22°29	3°24	14° 3	25° 9	29°53	21°12	28°25	10°28	6° 7	15° 7	15° 6	23°58	n.a.	S 7
S 8	18 49 56	11°19'29	4♍33	3°34	15°14	25°38	29°46	21° 9	28°27	10°27	6° 7	15° 0	15° 3	24° 5	n.a.	S 8
M 9	18 53 52	12°16'59	16°27	3°R39	16°26	26° 6	29°39	21° 6	28°28	10°26	6° 7	14°56	15° 0	24°11	n.a.	M 9
T 10	18 57 49	13°14'29	28°16	3°39	17°37	26°33	29°32	21° 3	28°30	10°24	6°R 7	14°54	14°56	24°18	n.a.	T 10
W11	19 1 46	14°12'01	10♎ 5	3°33	18°49	27° 1	29°24	21° 0	28°31	10°23	6° 7	14°54	14°53	24°25	n.a.	W11
T 12	19 5 42	15° 9'33	21°58	3°22	20° 0	27°27	29°17	20°57	28°33	10°21	6° 7	14°54	14°50	24°31	n.a.	T 12
F 13	19 9 39	16° 7'07	4♏ 3	3° 5	21°12	27°54	29° 9	20°53	28°35	10°20	6° 7	14°53	14°47	24°38	n.a.	F 13
S 14	19 13 35	17° 4'41	16°23	2°43	22°23	28°20	29° 2	20°50	28°36	10°18	6° 7	14°50	14°44	24°45	n.a.	S 14
S 15	19 17 32	18° 2'17	29° 3	2°16	23°35	28°45	28°54	20°46	28°38	10°17	6° 7	14°46	14°40	24°51	n.a.	S 15
M16	19 21 28	18°59'54	12♐ 7	1°43	24°46	29°10	28°47	20°43	28°40	10°16	6° 7	14°39	14°37	24°58	n.a.	M16
T 17	19 25 25	19°57'32	25°36	1° 6	25°57	29°35	28°39	20°39	28°42	10°14	6° 7	14°29	14°34	25° 5	n.a.	T 17
W18	19 29 21	20°55'12	9♑28	0°24	27° 8	29°59	28°31	20°36	28°44	10°12	6° 6	14°18	14°31	25°11	n.a.	W18
T 19	19 33 18	21°52'53	23°41	29♋39	28°19	0♈23	28°24	20°32	28°46	10°11	6° 6	14° 6	14°28	25°18	n.a.	T 19
F 20	19 37 15	22°50'35	8♒ 9	28°51	29°30	0°46	28°16	20°28	28°48	10° 9	6° 6	13°55	14°25	25°25	n.a.	F 20
S 21	19 41 11	23°48'19	22°45	28° 0	0♍41	1° 9	28° 8	20°24	28°50	10° 8	6° 6	13°46	14°21	25°31	n.a.	S 21
S 22	19 45 8	24°46'04	7♓22	27° 8	1°52	1°31	28° 0	20°21	28°52	10° 6	6° 6	13°40	14°18	25°38	n.a.	S 22
M23	19 49 4	25°43'52	21°53	26°15	3° 3	1°52	27°52	20°17	28°54	10° 5	6° 5	13°37	14°15	25°44	n.a.	M23
T 24	19 53 1	26°41'41	6♈16	25°23	4°14	2°13	27°44	20°13	28°56	10° 3	6° 5	13°35	14°12	25°51	n.a.	T 24
W25	19 56 57	27°39'32	20°27	24°32	5°25	2°34	27°37	20° 9	28°58	10° 2	6° 5	13°35	14° 9	25°58	n.a.	W25
T 26	20 0 54	28°37'24	4♉24	23°45	6°36	2°54	27°29	20° 4	29° 1	10° 0	6° 4	13°35	14° 6	26° 4	n.a.	T 26
F 27	20 4 50	29°35'19	18° 9	23° 1	7°46	3°13	27°21	20° 0	29° 3	9°58	6° 4	13°34	14° 2	26°11	n.a.	F 27
S 28	20 8 47	0♌33'16	1♊41	22°22	8°57	3°32	27°13	19°56	29° 5	9°57	6° 4	13°31	13°59	26°18	n.a.	S 28
S 29	20 12 44	1°31'15	15° 1	21°48	10° 8	3°50	27° 5	19°52	29° 8	9°55	6° 3	13°25	13°56	26°24	n.a.	S 29
M30	20 16 40	2°29'16	28° 9	21°21	11°18	4° 7	26°57	19°48	29°10	9°53	6° 3	13°16	13°53	26°31	n.a.	M30
T 31	20 20 37	3♌27'18	11♋ 5	21♋ 1	12♍29	4♈24	26♑49	19♒43	29♍13	9♒52	6♈ 2	13♎ 5	13♎50	26♍38	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23n38	17n39	3s47	18n35	1s40	20n19	1n37	6s18	3s27	21s16	1s 2	16s16	1s51	1n18	0n41	18s28	0s43	12s56	16s49	6s27	6s 8	0n55			n.a.
M 2	23 35	18 46	4 27	18 15	1 52	20 0	1 36	6 7	3 28	21 18	1 3	16 17	1 52	1 18	0 41	18 29	0 43	12 56	16 49	6 23	6 7	0 53			n.a.
T 3	23 33	18 50	4 52	17 55	2 5	19 39	1 35	5 56	3 30	21 20	1 3	16 18	1 52	1 17	0 41	18 29	0 44	12 57	16 49	6 19	6 6	0 51			n.a.
W 4	23 30	17 53	5 1	17 36	2 18	19 19	1 33	5 45	3 31	21 21	1 3	16 19	1 52	1 17	0 41	18 29	0 44	12 57	16 50	6 14	6 4	0 49			n.a.
T 5	23 26	16 3	4 54	17 18	2 31	18 57	1 32	5 35	3 33	21 23	1 3	16 20	1 52	1 16	0 41	18 30	0 44	12 57	16 50	6 9	6 3	0 47			n.a.
F 6	23 22	13 30	4 33	17 1	2 44	18 36	1 31	5 24	3 34	21 25	1 4	16 21	1 52	1 16	0 41	18 30	0 44	12 57	16 50	6 5	6 2	0 45			n.a.
S 7	23 18	10 24	4 0	16 45	2 56	18 13	1 29	5 14	3 35	21 26	1 4	16 22	1 53	1 15	0 40	18 31	0 44	12 58	16 51	6 1	6 1	0 43			n.a.
S 8	23 13	6 54	3 16	16 31	3 9	17 51	1 28	5 4	3 37	21 28	1 4	16 23	1 53	1 15	0 40	18 31	0 44	12 58	16 51	5 58	5 59	0 41			n.a.
M 9	23 8	3 11	2 25	16 18	3 21	17 28	1 26	4 54	3 38	21 30	1 4	16 24	1 53	1 14	0 40	18 31	0 44	12 58	16 51	5 57	5 58	0 39			n.a.
T 10	23 2	0s38	1 27	16 7	3 32	17 4	1 25	4 44	3 39	21 32	1 4	16 26	1 53	1 13	0 40	18 32	0 44	12 59	16 52	5 56	5 57	0 37			n.a.
W11	22 56	4 25	0 26	15 57	3 44	16 40	1 23	4 34	3 41	21 33	1 5	16 27	1 53	1 13	0 40	18 32	0 44	12 59	16 52	5 56	5 56	0 35			n.a.
T 12	22 50	8 4	0n37	15 50	3 54	16 15	1 21	4 24	3 42	21 35	1 5	16 28	1 54	1 12	0 40	18 33	0 44	12 59	16 52	5 56	5 54	0 34			n.a.
F 13	22 43	11 27	1 40	15 44	4 4	15 51	1 19	4 15	3 43	21 37	1 5	16 29	1 54	1 11	0 40	18 33	0 44	13 0	16 53	5 56	5 53	0 32			n.a.
S 14	22 36	14 23	2 39	15 40	4 13	15 25	1 17	4 6	3 45	21 39	1 5	16 31	1 54	1 10	0 40	18 33	0 44	13 0	16 53	5 55	5 52	0 30			n.a.
S 15	22 29	16 44	3 31	15 39	4 21	15 0	1 15	3 57	3 46	21 40	1 5	16 32	1 54	1 10	0 40	18 34	0 44	13 0	16 53	5 53	5 51	0 28			n.a.
M16	22 21	18 18	4 14	15 39	4 27	14 33	1 13	3 48	3 47	21 42	1 5	16 33	1 54	1 9	0 40	18 34	0 44	13 1	16 54	5 50	5 50	0 26			n.a.
T 17	22 12	18 53	4 45	15 42	4 32	14 7	1 11	3 39	3 48	21 44	1 6	16 34	1 55	1 8	0 40	18 35	0 44	13 1	16 54	5 46	5 48	0 24			n.a.
W18	22 4	18 23	5 0	15 48	4 36	13 40	1 8	3 30	3 50	21 46	1 6	16 36	1 55	1 7	0 40	18 35	0 44	13 1	16 54	5 42	5 47	0 22			n.a.
T 19	21 54	16 44	4 57	15 55	4 38	13 13	1 6	3 22	3 51	21 47	1 6	16 37	1 55	1 6	0 40	18 36	0 44	13 2	16 55	5 37	5 46	0 20			n.a.
F 20	21 45	14 0	4 35	16 5	4 39	12 46	1 4	3 14	3 52	21 49	1 6	16 39	1 55	1 6	0 40	18 36	0 44	13 2	16 55	5 33	5 45	0 18			n.a.
S 21	21 35	10 23	3 55	16 16	4 37	12 18	1 1	3 6	3 53	21 51	1 6	16 40	1 55	1 5	0 40	18 36	0 44	13 2	16 55	5 30	5 43	0 16			n.a.
S 22	21 25	6 8	2 59	16 29	4 34	11 50	0 58	2 58	3 54	21 53	1 6	16 41	1 55	1 4	0 40	18 37	0 44	13 3	16 56	5 27	5 42	0 15			n.a.
M23	21 14	1 32	1 52	16 45	4 28	11 22	0 56	2 50	3 56	21 54	1 7	16 43	1 56	1 3	0 40	18 37	0 44	13 3	16 56	5 26	5 41	0 13			n.a.
T 24	21 3	3n 6	0 39	17 1	4 21	10 53	0 53	2 43	3 57	21 56	1 7	16 44	1 56	1 2	0 40	18 38	0 44	13 4	16 56	5 25	5 40	0 11			n.a.
W25	20 52	7 31	0s36	17 19	4 12	10 24	0 50	2 36	3 58	21 58	1 7	16 46	1 56	1 1	0 40	18 38	0 44	13 4	16 57	5 25	5 38	0 9			n.a.
T 26	20 40	11 26	1 48	17 38	4 2	9 55	0 47	2 29	3 59	21 59	1 7	16 47	1 56	1 0	0 40	18 39	0 44	13 4	16 57	5 25	5 37	0 7			n.a.
F 27	20 28	14 40	2 53	17 57	3 49	9 26	0 44	2 22	4 0	22 1	1 7	16 49	1 56	0 59	0 40	18 39	0 44	13 5	16 57	5 25	5 36	0 5			n.a.
S 28	20 15	17 2	3 46	18 17	3 35	8 56	0 41	2 16	4 1	22 3	1 7	16 50	1 56	0 58	0 40	18 40	0 44	13 5	16 57	5 23	5 35	0 3			n.a.
S 29	20 3	18 26	4 26	18 37	3 20	8 27	0 38	2 9	4 2	22 5	1 7	16 52	1 56	0 57	0 40	18 40	0 44	13 6	16 58	5 21	5 33	0 1			n.a.
M30	19 50	18 50	4 52	18 58	3 4	7 57	0 35	2 3	4 3	22 6	1 7	16 53	1 57	0 56	0 40	18 41	0 44	13 6	16 58	5 18	5 32	0s 1			n.a.
T 31	19n36	18n13	5s 2	19n17	2s47	7n26	0n32	1s58	4s 4	22s 8	1s 7	16s55	1s57	0n55	0n40	18s41	0s44	13s 7	16s58	5s13	5s31	0s 3			n.a.

Julian Day Number = 1675217.5, Delta T = 03h18m25s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'46, Lahiri = - 5°41'45 Julian Calendar 1 July 127 BCE == Greg. Calendar 28 June 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

AUGUST 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 24 33	4♌25'23	23♋49	20°R49	13♍39	4♈40	26°R42	19°R39	29♍15	9°R50	6°R 2	12°R53	13♎46	26♍44	n.a.	W 1
T 2	20 28 30	5°23'29	6♌21	20°D45	14°49	4°56	26♉34	19♒34	29°18	9♒49	6♈ 2	12♎41	13°43	26°51	n.a.	T 2
F 3	20 32 26	6°21'37	18°40	20♋49	16° 0	5°11	26°26	19°30	29°20	9°47	6° 1	12°30	13°40	26°58	n.a.	F 3
S 4	20 36 23	7°19'47	0♍48	21° 2	17°10	5°25	26°19	19°26	29°23	9°45	6° 1	12°21	13°37	27° 4	n.a.	S 4
S 5	20 40 19	8°17'58	12°46	21°23	18°20	5°38	26°11	19°21	29°26	9°44	6° 0	12°15	13°34	27°11	n.a.	S 5
M 6	20 44 16	9°16'11	24°37	21°52	19°30	5°51	26° 3	19°17	29°28	9°42	6° 0	12°11	13°31	27°18	n.a.	M 6
T 7	20 48 12	10°14'26	6♎23	22°30	20°40	6° 3	25°56	19°12	29°31	9°40	5°59	12° 9	13°27	27°24	n.a.	T 7
W 8	20 52 9	11°12'42	18°11	23°16	21°50	6°14	25°49	19° 7	29°34	9°39	5°58	12°D 9	13°24	27°31	n.a.	W 8
T 9	20 56 6	12°11'00	0♏ 3	24°10	23° 0	6°24	25°41	19° 3	29°37	9°37	5°58	12°10	13°21	27°38	n.a.	T 9
F 10	21 0 2	13° 9'20	12° 5	25°11	24°10	6°34	25°34	18°58	29°40	9°35	5°57	12°R10	13°18	27°44	n.a.	F 10
S 11	21 3 59	14° 7'41	24°24	26°19	25°19	6°43	25°27	18°54	29°43	9°34	5°57	12°10	13°15	27°51	n.a.	S 11
S 12	21 7 55	15° 6'04	7♐ 3	27°33	26°29	6°51	25°20	18°49	29°45	9°32	5°56	12° 7	13°12	27°58	n.a.	S 12
M13	21 11 52	16° 4'29	20° 7	28°53	27°38	6°58	25°13	18°44	29°48	9°30	5°55	12° 3	13° 8	28° 4	n.a.	M13
T 14	21 15 48	17° 2'56	3♑39	0♌19	28°48	7° 4	25° 6	18°40	29°51	9°29	5°55	11°56	13° 5	28°11	n.a.	T 14
W15	21 19 45	18° 1'24	17°39	1°49	29°57	7°10	25° 0	18°35	29°54	9°27	5°54	11°48	13° 2	28°17	n.a.	W15
T 16	21 23 41	18°59'54	2♒ 4	3°24	1♎ 6	7°15	24°53	18°31	29°58	9°26	5°53	11°40	12°59	28°24	n.a.	T 16
F 17	21 27 38	19°58'26	16°48	5° 2	2°15	7°19	24°47	18°26	0♎ 1	9°24	5°52	11°32	12°56	28°31	n.a.	F 17
S 18	21 31 35	20°57'00	1♓45	6°43	3°24	7°22	24°40	18°21	0° 4	9°22	5°52	11°26	12°52	28°37	n.a.	S 18
S 19	21 35 31	21°55'36	16°45	8°27	4°33	7°24	24°34	18°17	0° 7	9°21	5°51	11°21	12°49	28°44	n.a.	S 19
M20	21 39 28	22°54'14	1♈39	10°13	5°42	7°26	24°28	18°12	0°10	9°19	5°50	11°19	12°46	28°51	n.a.	M20
T 21	21 43 24	23°52'55	16°21	12° 0	6°51	7°R26	24°22	18° 7	0°13	9°18	5°49	11°D19	12°43	28°57	n.a.	T 21
W22	21 47 21	24°51'37	0♉46	13°49	7°59	7°26	24°16	18° 3	0°16	9°16	5°49	11°20	12°40	29° 4	n.a.	W22
T 23	21 51 17	25°50'23	14°51	15°39	9° 8	7°24	24°11	17°58	0°20	9°14	5°48	11°21	12°37	29°11	n.a.	T 23
F 24	21 55 14	26°49'10	28°35	17°30	10°16	7°22	24° 5	17°54	0°23	9°13	5°47	11°R21	12°33	29°17	n.a.	F 24
S 25	21 59 10	27°48'00	12♊ 1	19°20	11°25	7°19	24° 0	17°49	0°26	9°11	5°46	11°20	12°30	29°24	n.a.	S 25
S 26	22 3 7	28°46'53	25° 9	21°11	12°33	7°15	23°55	17°45	0°30	9°10	5°45	11°17	12°27	29°31	n.a.	S 26
M27	22 7 4	29°45'48	8♋ 2	23° 2	13°41	7°10	23°50	17°40	0°33	9° 8	5°44	11°12	12°24	29°37	n.a.	M27
T 28	22 11 0	0♍44'45	20°40	24°53	14°49	7° 5	23°45	17°36	0°36	9° 7	5°43	11° 6	12°21	29°44	n.a.	T 28
W29	22 14 57	1°43'44	3♌ 7	26°43	15°57	6°58	23°40	17°31	0°40	9° 5	5°43	10°59	12°17	29°51	n.a.	W29
T 30	22 18 53	2°42'46	15°23	28°32	17° 4	6°50	23°36	17°27	0°43	9° 4	5°42	10°52	12°14	29°57	n.a.	T 30
F 31	22 22 50	3♍41'49	27♌29	0♍21	18♎12	6♈42	23♉31	17♒22	0♎47	9♒ 2	5♈41	10♎45	12♎11	0♎ 4	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	19n22	16n42	4s57	19n36	2s30	6n56	0n28	1s52	4s 5	22s 9	1s 8	16s56	1s57	0n54	0n40	18s41	0s44	13s 7	16s59	5s 9	5s30	0s 4			n.a.
T 2	19 8	14 25	4 37	19 55	2 12	6 26	0 25	1 47	4 6	22 11	1 8	16 58	1 57	0 53	0 40	18 42	0 44	13 7	16 59	5 4	5 28	0 6			n.a.
F 3	18 54	11 31	4 5	20 12	1 54	5 55	0 22	1 42	4 7	22 13	1 8	16 59	1 57	0 52	0 39	18 42	0 44	13 8	16 59	5 0	5 27	0 8			n.a.
S 4	18 39	8 10	3 22	20 28	1 36	5 24	0 18	1 37	4 8	22 14	1 8	17 1	1 57	0 51	0 39	18 43	0 44	13 8	17 0	4 56	5 26	0 10			n.a.
S 5	18 24	4 32	2 30	20 42	1 18	4 53	0 15	1 32	4 9	22 16	1 8	17 2	1 57	0 50	0 39	18 43	0 44	13 9	17 0	4 54	5 25	0 12			n.a.
M 6	18 8	0 45	1 32	20 55	1 0	4 22	0 11	1 28	4 10	22 17	1 8	17 4	1 57	0 49	0 39	18 44	0 44	13 9	17 0	4 52	5 23	0 14			n.a.
T 7	17 52	3s 2	0 31	21 6	0 43	3 51	0 7	1 24	4 10	22 19	1 8	17 5	1 58	0 48	0 39	18 44	0 44	13 10	17 0	4 51	5 22	0 16			n.a.
W 8	17 36	6 42	0n32	21 14	0 27	3 20	0 4	1 20	4 11	22 20	1 8	17 7	1 58	0 46	0 39	18 45	0 44	13 10	17 1	4 51	5 21	0 18			n.a.
T 9	17 20	10 8	1 35	21 21	0 11	2 48	0s 0	1 17	4 12	22 21	1 8	17 9	1 58	0 45	0 39	18 45	0 44	13 11	17 1	4 52	5 20	0 20			n.a.
F 10	17 3	13 12	2 34	21 24	0n 4	2 17	0 4	1 13	4 12	22 23	1 8	17 10	1 58	0 44	0 39	18 46	0 44	13 11	17 1	4 52	5 18	0 21			n.a.
S 11	16 46	15 44	3 27	21 25	0 18	1 46	0 8	1 10	4 13	22 24	1 8	17 12	1 58	0 43	0 39	18 46	0 44	13 12	17 2	4 52	5 17	0 23			n.a.
S 12	16 29	17 36	4 12	21 24	0 31	1 14	0 12	1 8	4 14	22 26	1 8	17 13	1 58	0 42	0 39	18 46	0 44	13 12	17 2	4 51	5 16	0 25			n.a.
M13	16 12	18 36	4 45	21 19	0 43	0 43	0 16	1 5	4 14	22 27	1 8	17 15	1 58	0 41	0 39	18 47	0 44	13 13	17 2	4 49	5 15	0 27			n.a.
T 14	15 54	18 36	5 3	21 12	0 54	0 11	0 20	1 3	4 15	22 28	1 8	17 16	1 58	0 39	0 39	18 47	0 44	13 13	17 2	4 46	5 13	0 29			n.a.
W15	15 36	17 29	5 5	21 1	1 5	0s21	0 24	1 1	4 15	22 29	1 8	17 18	1 58	0 38	0 39	18 48	0 44	13 14	17 3	4 43	5 12	0 31			n.a.
T 16	15 18	15 15	4 48	20 48	1 13	0 52	0 28	1 0	4 15	22 31	1 8	17 19	1 58	0 37	0 39	18 48	0 44	13 14	17 3	4 40	5 11	0 33			n.a.
F 17	14 59	11 59	4 11	20 32	1 21	1 24	0 32	0 59	4 16	22 32	1 8	17 21	1 58	0 36	0 39	18 49	0 44	13 15	17 3	4 37	5 10	0 35			n.a.
S 18	14 40	7 55	3 17	20 14	1 28	1 55	0 36	0 58	4 16	22 33	1 8	17 22	1 58	0 34	0 39	18 49	0 44	13 15	17 3	4 34	5 8	0 37			n.a.
S 19	14 21	3 19	2 9	19 52	1 34	2 27	0 40	0 57	4 16	22 34	1 8	17 24	1 59	0 33	0 39	18 50	0 44	13 16	17 4	4 32	5 7	0 38			n.a.
M20	14 2	1n28	0 52	19 28	1 39	2 58	0 45	0 56	4 16	22 35	1 8	17 25	1 59	0 32	0 39	18 50	0 44	13 16	17 4	4 31	5 6	0 40			n.a.
T 21	13 43	6 5	0s27	19 2	1 43	3 30	0 49	0 56	4 17	22 36	1 8	17 27	1 59	0 30	0 39	18 50	0 44	13 17	17 4	4 31	5 5	0 42			n.a.
W22	13 23	10 15	1 43	18 33	1 46	4 1	0 53	0 56	4 17	22 37	1 8	17 28	1 59	0 29	0 39	18 51	0 44	13 17	17 4	4 32	5 3	0 44			n.a.
T 23	13 3	13 44	2 51	18 3	1 48	4 32	0 57	0 57	4 16	22 38	1 8	17 30	1 59	0 28	0 39	18 51	0 44	13 18	17 4	4 32	5 2	0 46			n.a.
F 24	12 43	16 22	3 48	17 30	1 50	5 3	1 2	0 58	4 16	22 39	1 8	17 31	1 59	0 26	0 39	18 52	0 44	13 18	17 5	4 32	5 1	0 48			n.a.
S 25	12 22	18 1	4 31	16 56	1 51	5 35	1 6	0 59	4 16	22 40	1 8	17 33	1 59	0 25	0 39	18 52	0 44	13 19	17 5	4 32	5 0	0 50			n.a.
S 26	12 2	18 39	4 58	16 20	1 51	6 5	1 10	1 0	4 16	22 41	1 8	17 34	1 59	0 24	0 39	18 53	0 44	13 19	17 5	4 31	4 58	0 52			n.a.
M27	11 41	18 19	5 9	15 43	1 50	6 36	1 15	1 2	4 16	22 42	1 8	17 36	1 59	0 22	0 39	18 53	0 44	13 20	17 5	4 29	4 57	0 54			n.a.
T 28	11 20	17 4	5 6	15 5	1 49	7 7	1 19	1 4	4 15	22 43	1 8	17 37	1 59	0 21	0 39	18 53	0 44	13 20	17 5	4 26	4 56	0 55			n.a.
W29	10 59	15 1	4 47	14 25	1 47	7 38	1 24	1 6	4 15	22 44	1 8	17 38	1 59	0 20	0 39	18 54	0 44	13 21	17 6	4 24	4 55	0 57			n.a.
T 30	10 37	12 20	4 16	13 45	1 45	8 8	1 28	1 8	4 14	22 44	1 8	17 40	1 59	0 18	0 39	18 54	0 44	13 22	17 6	4 21	4 53	0 59			n.a.
F 31	10n16	9n 9	3s34	13n 3	1n42	8s38	1s32	1s11	4s13	22s45	1s 8	17s41	1s59	0n17	0n39	18s55	0s44	13s22	17s 6	4s18	4s52	1s 1			n.a.

Julian Day Number = 1675248.5, Delta T = 03h18m24s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'42, Lahiri = - 5°41'41 Julian Calendar 1 Aug. 127 BCE == Greg. Calendar 29 July 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

SEPTEMBER 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 26 46	4♍40'55	9♍27	2♍10	19♎20	6°R33	23°R27	17°R18	0♎50	9°R 1	5°R40	10°R40	12♎ 8	0♎10	n.a.	S 1
S 2	22 30 43	5°40'03	21°19	3°58	20°27	6♈23	23♉23	17♒14	0°54	8♒59	5♈39	10♎37	12° 5	0°17	n.a.	S 2
M 3	22 34 39	6°39'13	3♎ 7	5°45	21°34	6°12	23°19	17°10	0°57	8°58	5°38	10°35	12° 2	0°24	n.a.	M 3
T 4	22 38 36	7°38'26	14°53	7°31	22°41	6° 0	23°16	17° 5	1° 1	8°57	5°37	10°D35	11°58	0°30	n.a.	T 4
W 5	22 42 32	8°37'40	26°40	9°16	23°48	5°47	23°12	17° 1	1° 4	8°55	5°36	10°36	11°55	0°37	n.a.	W 5
T 6	22 46 29	9°36'56	8♏33	11° 1	24°55	5°34	23° 9	16°57	1° 8	8°54	5°35	10°37	11°52	0°44	n.a.	T 6
F 7	22 50 26	10°36'14	20°35	12°45	26° 1	5°20	23° 6	16°53	1°11	8°52	5°34	10°39	11°49	0°50	n.a.	F 7
S 8	22 54 22	11°35'34	2♐52	14°28	27° 8	5° 5	23° 3	16°49	1°15	8°51	5°33	10°40	11°46	0°57	n.a.	S 8
S 9	22 58 19	12°34'55	15°27	16°10	28°14	4°50	23° 0	16°45	1°19	8°50	5°32	10°R41	11°43	1° 4	n.a.	S 9
M10	23 2 15	13°34'19	28°26	17°52	29°20	4°34	22°58	16°41	1°22	8°49	5°31	10°40	11°39	1°10	n.a.	M10
T 11	23 6 12	14°33'45	11♑52	19°33	0♏26	4°17	22°56	16°37	1°26	8°47	5°30	10°38	11°36	1°17	n.a.	T 11
W12	23 10 8	15°33'12	25°46	21°13	1°32	4° 0	22°53	16°34	1°30	8°46	5°29	10°35	11°33	1°24	n.a.	W12
T 13	23 14 5	16°32'41	10♒ 8	22°52	2°37	3°42	22°52	16°30	1°33	8°45	5°28	10°31	11°30	1°30	n.a.	T 13
F 14	23 18 1	17°32'13	24°54	24°30	3°43	3°24	22°50	16°26	1°37	8°44	5°26	10°28	11°27	1°37	n.a.	F 14
S 15	23 21 58	18°31'46	9♓57	26° 8	4°48	3° 5	22°48	16°23	1°41	8°42	5°25	10°25	11°23	1°44	n.a.	S 15
S 16	23 25 54	19°31'21	25°10	27°45	5°53	2°46	22°47	16°19	1°44	8°41	5°24	10°24	11°20	1°50	n.a.	S 16
M17	23 29 51	20°30'58	10♈21	29°22	6°57	2°26	22°46	16°16	1°48	8°40	5°23	10°D23	11°17	1°57	n.a.	M17
T 18	23 33 48	21°30'38	25°22	0♎58	8° 2	2° 6	22°45	16°12	1°52	8°39	5°22	10°24	11°14	2° 3	n.a.	T 18
W19	23 37 44	22°30'19	10♉ 5	2°33	9° 6	1°46	22°44	16° 9	1°55	8°38	5°21	10°25	11°11	2°10	n.a.	W19
T 20	23 41 41	23°30'04	24°25	4° 7	10°10	1°26	22°44	16° 6	1°59	8°37	5°20	10°26	11° 8	2°17	n.a.	T 20
F 21	23 45 37	24°29'50	8♊20	5°41	11°14	1° 5	22°43	16° 3	2° 3	8°36	5°19	10°27	11° 4	2°23	n.a.	F 21
S 22	23 49 34	25°29'39	21°50	7°14	12°17	0°45	22°D43	16° 0	2° 7	8°35	5°18	10°R28	11° 1	2°30	n.a.	S 22
S 23	23 53 30	26°29'31	4♋57	8°47	13°20	0°24	22°43	15°57	2°10	8°34	5°17	10°27	10°58	2°37	n.a.	S 23
M24	23 57 27	27°29'24	17°43	10°19	14°23	0° 3	22°44	15°54	2°14	8°33	5°15	10°27	10°55	2°43	n.a.	M24
T 25	0 1 23	28°29'20	0♌12	11°51	15°26	29♓42	22°44	15°51	2°18	8°32	5°14	10°25	10°52	2°50	n.a.	T 25
W26	0 5 20	29°29'18	12°26	13°22	16°28	29°22	22°45	15°49	2°22	8°31	5°13	10°24	10°48	2°57	n.a.	W26
T 27	0 9 17	0♎29'19	24°30	14°52	17°31	29° 1	22°46	15°46	2°26	8°30	5°12	10°22	10°45	3° 3	n.a.	T 27
F 28	0 13 13	1°29'21	6♍26	16°22	18°32	28°41	22°47	15°43	2°29	8°29	5°11	10°21	10°42	3°10	n.a.	F 28
S 29	0 17 10	2°29'26	18°17	17°52	19°34	28°20	22°48	15°41	2°33	8°29	5°10	10°20	10°39	3°17	n.a.	S 29
S 30	0 21 6	3♎29'32	0♎ 5	19♎20	20♏35	28♓ 0	22♉50	15♒39	2♎37	8♒28	5♈ 9	10♎19	10♎36	3♎23	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n54	5n37	2s42	12n21	1n38	9s 8	1s37	1s14	4s12	22s46	1s 8	17s42	1s59	0n15	0n39	18s55	0s44	13s23	17s 6	4s16	4s51	1s 3		n.a.
S 2	9 32	1 54	1 43	11 38	1 35	9 38	1 41	1 17	4 11	22 46	1 8	17 44	1 59	0 14	0 39	18 55	0 44	13 23	17 6	4 15	4 50	1 5		n.a.
M 3	9 10	1s52	0 41	10 55	1 31	10 8	1 46	1 20	4 10	22 47	1 8	17 45	1 59	0 12	0 39	18 56	0 44	13 24	17 6	4 14	4 48	1 7		n.a.
T 4	8 48	5 34	0n24	10 11	1 26	10 37	1 50	1 24	4 9	22 47	1 8	17 46	1 59	0 11	0 39	18 56	0 44	13 24	17 7	4 14	4 47	1 9		n.a.
W 5	8 26	9 3	1 27	9 26	1 22	11 7	1 55	1 28	4 8	22 48	1 8	17 48	1 59	0 10	0 39	18 57	0 44	13 25	17 7	4 14	4 46	1 10		n.a.
T 6	8 3	12 11	2 28	8 42	1 17	11 36	1 59	1 32	4 7	22 49	1 8	17 49	1 59	0 8	0 39	18 57	0 44	13 25	17 7	4 15	4 45	1 12		n.a.
F 7	7 40	14 51	3 22	7 57	1 11	12 4	2 3	1 36	4 5	22 49	1 8	17 50	1 59	0 7	0 39	18 57	0 44	13 26	17 7	4 16	4 43	1 14		n.a.
S 8	7 18	16 54	4 9	7 12	1 6	12 33	2 8	1 41	4 4	22 49	1 8	17 51	1 59	0 5	0 39	18 58	0 44	13 26	17 7	4 16	4 42	1 16		n.a.
S 9	6 55	18 11	4 45	6 26	1 0	13 1	2 12	1 45	4 2	22 50	1 7	17 53	1 59	0 4	0 39	18 58	0 44	13 27	17 7	4 16	4 41	1 18		n.a.
M10	6 32	18 34	5 8	5 41	0 55	13 29	2 16	1 50	4 0	22 50	1 7	17 54	1 59	0 2	0 39	18 58	0 44	13 27	17 7	4 16	4 40	1 20		n.a.
T 11	6 9	17 57	5 15	4 56	0 48	13 57	2 21	1 55	3 58	22 50	1 7	17 55	1 59	0 1	0 39	18 59	0 44	13 28	17 8	4 15	4 38	1 22		n.a.
W12	5 45	16 15	5 4	4 10	0 42	14 24	2 25	2 0	3 56	22 51	1 7	17 56	1 59	0s 1	0 39	18 59	0 44	13 28	17 8	4 14	4 37	1 24		n.a.
T 13	5 22	13 30	4 34	3 25	0 36	14 51	2 29	2 5	3 54	22 51	1 7	17 57	1 59	0 2	0 39	18 59	0 44	13 29	17 8	4 13	4 36	1 25		n.a.
F 14	4 59	9 50	3 45	2 39	0 30	15 18	2 33	2 11	3 52	22 51	1 7	17 58	1 59	0 4	0 39	19 0	0 44	13 29	17 8	4 11	4 35	1 27		n.a.
S 15	4 35	5 27	2 40	1 54	0 23	15 44	2 37	2 16	3 50	22 51	1 7	17 59	1 59	0 5	0 39	19 0	0 44	13 30	17 8	4 10	4 33	1 29		n.a.
S 16	4 12	0 40	1 23	1 9	0 17	16 10	2 42	2 21	3 47	22 51	1 7	18 0	1 58	0 7	0 39	19 0	0 44	13 30	17 8	4 10	4 32	1 31		n.a.
M17	3 48	4n 9	0 0	0 24	0 10	16 35	2 46	2 27	3 45	22 52	1 7	18 1	1 58	0 8	0 39	19 0	0 44	13 31	17 8	4 9	4 31	1 33		n.a.
T 18	3 24	8 39	1s22	0s20	0 3	17 1	2 50	2 32	3 42	22 52	1 7	18 2	1 58	0 10	0 38	19 1	0 44	13 31	17 8	4 10	4 30	1 35		n.a.
W19	3 0	12 31	2 37	1 5	0s 4	17 26	2 54	2 38	3 39	22 52	1 7	18 3	1 58	0 11	0 38	19 1	0 44	13 32	17 8	4 10	4 28	1 37		n.a.
T 20	2 36	15 31	3 40	1 49	0 10	17 50	2 58	2 44	3 36	22 52	1 6	18 4	1 58	0 13	0 38	19 1	0 44	13 32	17 8	4 10	4 27	1 39		n.a.
F 21	2 13	17 31	4 29	2 33	0 17	18 14	3 1	2 49	3 33	22 52	1 6	18 5	1 58	0 14	0 38	19 2	0 44	13 33	17 8	4 11	4 26	1 40		n.a.
S 22	1 49	18 27	5 1	3 16	0 24	18 38	3 5	2 55	3 30	22 52	1 6	18 6	1 58	0 16	0 38	19 2	0 44	13 33	17 8	4 11	4 24	1 42		n.a.
S 23	1 25	18 21	5 16	4 0	0 31	19 1	3 9	3 0	3 27	22 51	1 6	18 7	1 58	0 17	0 38	19 2	0 44	13 34	17 9	4 11	4 23	1 44		n.a.
M24	1 1	17 19	5 15	4 42	0 38	19 24	3 13	3 6	3 24	22 51	1 6	18 7	1 58	0 19	0 38	19 2	0 44	13 34	17 9	4 11	4 22	1 46		n.a.
T 25	0 36	15 28	4 59	5 25	0 44	19 46	3 16	3 11	3 21	22 51	1 6	18 8	1 58	0 20	0 38	19 3	0 44	13 35	17 9	4 10	4 21	1 48		n.a.
W26	0 12	12 57	4 29	6 7	0 51	20 8	3 20	3 16	3 17	22 51	1 6	18 9	1 58	0 22	0 38	19 3	0 44	13 35	17 9	4 10	4 19	1 50		n.a.
T 27	0s12	9 55	3 48	6 49	0 58	20 29	3 23	3 21	3 14	22 51	1 6	18 10	1 58	0 23	0 38	19 3	0 44	13 36	17 9	4 9	4 18	1 52		n.a.
F 28	0 36	6 30	2 57	7 30	1 4	20 50	3 27	3 26	3 10	22 50	1 6	18 10	1 58	0 25	0 38	19 3	0 44	13 36	17 9	4 8	4 17	1 54		n.a.
S 29	1 0	2 51	2 0	8 10	1 11	21 11	3 30	3 31	3 7	22 50	1 6	18 11	1 57	0 26	0 38	19 3	0 44	13 37	17 9	4 8	4 16	1 55		n.a.
S 30	1s24	0s54	0s57	8s50	1s17	21s31	3s33	3s36	3s 3	22s50	1s 5	18s11	1s57	0s28	0n38	19s 4	0s44	13s37	17s 9	4s 8	4s14	1s57		n.a.

Julian Day Number = 1675279.5, Delta T = 03h18m23s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'37, Lahiri = - 5°41'37 Julian Calendar 1 Sept. 127 BCE == Greg. Calendar 29 Aug. 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

OCTOBER 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 25 3	4♎29'41	11♎52	20♎49	21♏36	27°R41	22♑52	15°R36	2♎41	8°R27	5°R 8	10°D19	10♎33	3♎30	n.a.	M 1
T 2	0 28 59	5°29'51	23°41	22°16	22°36	27♓22	22°53	15♒34	2°44	8♒26	5♈ 6	10♎19	10°29	3°37	n.a.	T 2
W 3	0 32 56	6°30'03	5♏33	23°43	23°36	27° 3	22°56	15°32	2°48	8°26	5° 5	10°20	10°26	3°43	n.a.	W 3
T 4	0 36 52	7°30'18	17°31	25°10	24°36	26°45	22°58	15°30	2°52	8°25	5° 4	10°20	10°23	3°50	n.a.	T 4
F 5	0 40 49	8°30'33	29°39	26°35	25°36	26°27	23° 0	15°28	2°56	8°24	5° 3	10°20	10°20	3°56	n.a.	F 5
S 6	0 44 45	9°30'51	11♐58	28° 0	26°35	26° 9	23° 3	15°26	2°59	8°24	5° 2	10°21	10°17	4° 3	n.a.	S 6
S 7	0 48 42	10°31'10	24°34	29°25	27°33	25°53	23° 6	15°25	3° 3	8°23	5° 1	10°R21	10°14	4°10	n.a.	S 7
M 8	0 52 39	11°31'31	7♑29	0♏48	28°31	25°37	23° 9	15°23	3° 7	8°23	5° 0	10°D21	10°10	4°16	n.a.	M 8
T 9	0 56 35	12°31'53	20°46	2°11	29°29	25°21	23°12	15°22	3°11	8°22	4°58	10°21	10° 7	4°23	n.a.	T 9
W10	1 0 32	13°32'17	4♒28	3°33	0♐26	25° 7	23°16	15°20	3°14	8°22	4°57	10°21	10° 4	4°30	n.a.	W10
T 11	1 4 28	14°32'42	18°36	4°53	1°22	24°53	23°20	15°19	3°18	8°21	4°56	10°21	10° 1	4°36	n.a.	T 11
F 12	1 8 25	15°33'09	3♓ 8	6°13	2°18	24°39	23°23	15°18	3°22	8°21	4°55	10°21	9°58	4°43	n.a.	F 12
S 13	1 12 21	16°33'37	18° 0	7°31	3°14	24°27	23°27	15°17	3°26	8°20	4°54	10°22	9°54	4°50	n.a.	S 13
S 14	1 16 18	17°34'06	3♈ 7	8°48	4° 9	24°15	23°32	15°16	3°29	8°20	4°53	10°R22	9°51	4°56	n.a.	S 14
M15	1 20 14	18°34'38	18°20	10° 3	5° 3	24° 4	23°36	15°15	3°33	8°20	4°52	10°22	9°48	5° 3	n.a.	M15
T 16	1 24 11	19°35'10	3♉28	11°17	5°57	23°53	23°41	15°14	3°37	8°19	4°51	10°22	9°45	5°10	n.a.	T 16
W17	1 28 8	20°35'45	18°23	12°29	6°50	23°44	23°46	15°14	3°40	8°19	4°50	10°21	9°42	5°16	n.a.	W17
T 18	1 32 4	21°36'21	2♊57	13°38	7°43	23°35	23°51	15°13	3°44	8°19	4°48	10°19	9°39	5°23	n.a.	T 18
F 19	1 36 1	22°37'00	17° 6	14°45	8°34	23°27	23°56	15°13	3°48	8°19	4°47	10°18	9°35	5°29	n.a.	F 19
S 20	1 39 57	23°37'40	0♋46	15°49	9°26	23°20	24° 1	15°12	3°51	8°19	4°46	10°17	9°32	5°36	n.a.	S 20
S 21	1 43 54	24°38'21	14° 0	16°50	10°16	23°13	24° 7	15°12	3°55	8°18	4°45	10°16	9°29	5°43	n.a.	S 21
M22	1 47 50	25°39'05	26°48	17°47	11° 5	23° 8	24°12	15°12	3°58	8°18	4°44	10°D15	9°26	5°49	n.a.	M22
T 23	1 51 47	26°39'50	9♌15	18°41	11°54	23° 3	24°18	15°D12	4° 2	8°18	4°43	10°16	9°23	5°56	n.a.	T 23
W24	1 55 43	27°40'37	21°26	19°29	12°42	22°59	24°24	15°12	4° 6	8°D18	4°42	10°17	9°20	6° 3	n.a.	W24
T 25	1 59 40	28°41'26	3♍24	20°13	13°29	22°56	24°30	15°12	4° 9	8°18	4°41	10°18	9°16	6° 9	n.a.	T 25
F 26	2 3 37	29°42'16	15°14	20°50	14°15	22°54	24°37	15°13	4°13	8°18	4°40	10°20	9°13	6°16	n.a.	F 26
S 27	2 7 33	0♏43'08	27° 1	21°21	15° 1	22°52	24°43	15°13	4°16	8°19	4°39	10°21	9°10	6°23	n.a.	S 27
S 28	2 11 30	1°44'01	8♎48	21°44	15°45	22°D52	24°50	15°14	4°20	8°19	4°38	10°R22	9° 7	6°29	n.a.	S 28
M29	2 15 26	2°44'55	20°37	21°59	16°28	22°52	24°57	15°14	4°23	8°19	4°37	10°22	9° 4	6°36	n.a.	M29
T 30	2 19 23	3°45'51	2♏32	22°R 5	17°10	22°53	25° 4	15°15	4°26	8°19	4°36	10°20	9° 0	6°43	n.a.	T 30
W31	2 23 19	4♏46'48	14♏33	22♏ 2	17♐51	22♓55	25♑11	15♒16	4♎30	8♒19	4♈35	10♎17	8♎57	6♎49	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	1s48	4s37	0n 9	9s30	1s24	21s50	3s36	3s40	2s59	22s49	1s 5	18s12	1s57	0s29	0n38	19s 4	0s44	13s38	17s 9	4s 8	4s13	1s59			n.a.
T 2	2 12	8 9	1 14	10 9	1 30	22 9	3 39	3 44	2 55	22 49	1 5	18 13	1 57	0 31	0 38	19 4	0 44	13 38	17 9	4 8	4 12	2 1			n.a.
W 3	2 37	11 23	2 16	10 47	1 36	22 28	3 42	3 48	2 52	22 48	1 5	18 13	1 57	0 32	0 38	19 4	0 44	13 38	17 9	4 8	4 11	2 3			n.a.
T 4	3 1	14 10	3 13	11 25	1 42	22 46	3 45	3 52	2 48	22 48	1 5	18 14	1 57	0 34	0 38	19 4	0 44	13 39	17 9	4 8	4 9	2 5			n.a.
F 5	3 25	16 22	4 2	12 2	1 47	23 3	3 47	3 56	2 44	22 47	1 5	18 14	1 57	0 35	0 38	19 5	0 44	13 39	17 9	4 8	4 8	2 7			n.a.
S 6	3 49	17 51	4 40	12 38	1 53	23 20	3 50	3 59	2 40	22 47	1 5	18 15	1 57	0 37	0 38	19 5	0 44	13 40	17 9	4 8	4 7	2 8			n.a.
S 7	4 13	18 30	5 6	13 14	1 58	23 36	3 52	4 2	2 36	22 46	1 5	18 15	1 57	0 38	0 38	19 5	0 44	13 40	17 8	4 8	4 6	2 10			n.a.
M 8	4 36	18 12	5 18	13 48	2 3	23 52	3 55	4 5	2 32	22 45	1 5	18 15	1 56	0 40	0 38	19 5	0 44	13 40	17 8	4 8	4 4	2 12			n.a.
T 9	5 0	16 56	5 13	14 22	2 8	24 7	3 57	4 8	2 28	22 45	1 4	18 16	1 56	0 41	0 38	19 5	0 44	13 41	17 8	4 8	4 3	2 14			n.a.
W10	5 24	14 39	4 51	14 55	2 13	24 21	3 59	4 10	2 24	22 44	1 4	18 16	1 56	0 43	0 38	19 5	0 44	13 41	17 8	4 8	4 2	2 16			n.a.
T 11	5 48	11 27	4 10	15 27	2 17	24 35	4 1	4 12	2 20	22 43	1 4	18 16	1 56	0 44	0 38	19 5	0 44	13 42	17 8	4 9	4 1	2 18			n.a.
F 12	6 11	7 29	3 13	15 58	2 21	24 49	4 2	4 14	2 16	22 42	1 4	18 16	1 56	0 46	0 38	19 5	0 44	13 42	17 8	4 9	3 59	2 20			n.a.
S 13	6 35	2 56	2 1	16 27	2 25	25 2	4 4	4 15	2 13	22 42	1 4	18 17	1 56	0 47	0 38	19 5	0 44	13 42	17 8	4 9	3 58	2 21			n.a.
S 14	6 58	1n52	0 40	16 56	2 28	25 14	4 6	4 16	2 9	22 41	1 4	18 17	1 56	0 49	0 38	19 6	0 44	13 43	17 8	4 9	3 57	2 23			n.a.
M15	7 22	6 35	0s44	17 23	2 31	25 25	4 7	4 17	2 5	22 40	1 4	18 17	1 56	0 50	0 38	19 6	0 44	13 43	17 8	4 9	3 55	2 25			n.a.
T 16	7 45	10 51	2 5	17 49	2 34	25 36	4 8	4 18	2 1	22 39	1 4	18 17	1 56	0 52	0 38	19 6	0 44	13 43	17 8	4 9	3 54	2 27			n.a.
W17	8 8	14 21	3 16	18 13	2 36	25 47	4 9	4 18	1 57	22 38	1 4	18 17	1 55	0 53	0 38	19 6	0 44	13 44	17 8	4 8	3 53	2 29			n.a.
T 18	8 31	16 51	4 13	18 36	2 37	25 57	4 10	4 18	1 53	22 37	1 3	18 17	1 55	0 55	0 38	19 6	0 44	13 44	17 8	4 8	3 52	2 31			n.a.
F 19	8 54	18 14	4 52	18 57	2 38	26 6	4 10	4 18	1 49	22 36	1 3	18 17	1 55	0 56	0 38	19 6	0 44	13 44	17 7	4 7	3 50	2 33			n.a.
S 20	9 16	18 29	5 13	19 17	2 38	26 14	4 11	4 17	1 46	22 35	1 3	18 17	1 55	0 58	0 38	19 6	0 44	13 45	17 7	4 7	3 49	2 34			n.a.
S 21	9 39	17 43	5 17	19 34	2 38	26 22	4 11	4 17	1 42	22 34	1 3	18 17	1 55	0 59	0 38	19 6	0 44	13 45	17 7	4 6	3 48	2 36			n.a.
M22	10 1	16 3	5 4	19 50	2 36	26 30	4 11	4 15	1 38	22 33	1 3	18 17	1 55	1 1	0 38	19 6	0 44	13 45	17 7	4 6	3 47	2 38			n.a.
T 23	10 24	13 41	4 38	20 3	2 34	26 36	4 11	4 14	1 35	22 32	1 3	18 17	1 55	1 2	0 38	19 6	0 44	13 46	17 7	4 6	3 45	2 40			n.a.
W24	10 46	10 45	3 59	20 13	2 31	26 42	4 10	4 12	1 31	22 30	1 3	18 17	1 54	1 3	0 38	19 6	0 44	13 46	17 7	4 7	3 44	2 42			n.a.
T 25	11 8	7 25	3 11	20 21	2 27	26 48	4 9	4 10	1 27	22 29	1 3	18 16	1 54	1 5	0 38	19 6	0 44	13 46	17 7	4 8	3 43	2 44			n.a.
F 26	11 30	3 49	2 15	20 27	2 22	26 53	4 9	4 8	1 24	22 28	1 3	18 16	1 54	1 6	0 38	19 6	0 44	13 46	17 6	4 8	3 42	2 46			n.a.
S 27	11 51	0 5	1 13	20 29	2 16	26 57	4 7	4 5	1 20	22 27	1 2	18 16	1 54	1 8	0 39	19 6	0 44	13 47	17 6	4 9	3 40	2 47			n.a.
S 28	12 13	3s40	0 9	20 28	2 8	27 1	4 6	4 2	1 17	22 25	1 2	18 16	1 54	1 9	0 39	19 6	0 44	13 47	17 6	4 9	3 39	2 49			n.a.
M29	12 34	7 16	0n56	20 23	1 59	27 4	4 4	3 59	1 14	22 24	1 2	18 15	1 54	1 10	0 39	19 6	0 44	13 47	17 6	4 9	3 38	2 51			n.a.
T 30	12 55	10 37	1 59	20 15	1 49	27 6	4 2	3 56	1 10	22 23	1 2	18 15	1 54	1 12	0 39	19 6	0 44	13 47	17 6	4 8	3 37	2 53			n.a.
W31	13s16	13s34	2n57	20s 2	1s37	27s 8	4s 0	3s52	1s 7	22s21	1s 2	18s15	1s53	1s13	0n39	19s 6	0s44	13s47	17s 5	4s 7	3s35	2s55			n.a.

Julian Day Number = 1675309.5, Delta T = 03h18m22s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'33, Lahiri = - 5°41'33 Julian Calendar 1 Oct. 127 BCE == Greg. Calendar 28 Sept. 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

NOVEMBER 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 27 16	5♏47'46	26♏43	21°R47	18♐31	22♓57	25♑18	15♒17	4♎33	8♒20	4°R34	10°R13	8♎54	6♎56	n.a.	T 1
F 2	2 31 12	6°48'46	9♐ 4	21♏22	19°10	23° 0	25°26	15°18	4°37	8°20	4♈33	10♎ 8	8°51	7° 3	n.a.	F 2
S 3	2 35 9	7°49'46	21°35	20°46	19°48	23° 5	25°33	15°19	4°40	8°20	4°32	10° 4	8°48	7° 9	n.a.	S 3
S 4	2 39 6	8°50'47	4♑20	19°59	20°24	23° 9	25°41	15°20	4°43	8°21	4°31	9°59	8°45	7°16	n.a.	S 4
M 5	2 43 2	9°51'49	17°19	19° 2	20°59	23°15	25°49	15°22	4°47	8°21	4°30	9°56	8°41	7°22	n.a.	M 5
T 6	2 46 59	10°52'52	0♒35	17°55	21°32	23°21	25°57	15°23	4°50	8°21	4°29	9°54	8°38	7°29	n.a.	T 6
W 7	2 50 55	11°53'55	14° 9	16°40	22° 4	23°28	26° 6	15°25	4°53	8°22	4°29	9°D54	8°35	7°36	n.a.	W 7
T 8	2 54 52	12°54'59	28° 2	15°21	22°34	23°36	26°14	15°27	4°56	8°22	4°28	9°54	8°32	7°42	n.a.	T 8
F 9	2 58 48	13°56'04	12♓14	13°58	23° 3	23°44	26°23	15°28	4°59	8°23	4°27	9°56	8°29	7°49	n.a.	F 9
S 10	3 2 45	14°57'09	26°45	12°35	23°30	23°53	26°31	15°30	5° 2	8°24	4°26	9°57	8°25	7°56	n.a.	S 10
S 11	3 6 41	15°58'15	11♈31	11°16	23°55	24° 3	26°40	15°32	5° 6	8°24	4°25	9°R58	8°22	8° 2	n.a.	S 11
M12	3 10 38	16°59'21	26°26	10° 1	24°19	24°13	26°49	15°35	5° 9	8°25	4°24	9°57	8°19	8° 9	n.a.	M12
T 13	3 14 35	18° 0'28	11♉23	8°54	24°40	24°24	26°58	15°37	5°12	8°25	4°24	9°54	8°16	8°16	n.a.	T 13
W14	3 18 31	19° 1'36	26°14	7°57	25° 0	24°36	27° 7	15°39	5°15	8°26	4°23	9°49	8°13	8°22	n.a.	W14
T 15	3 22 28	20° 2'44	10♊49	7° 9	25°18	24°48	27°17	15°42	5°18	8°27	4°22	9°43	8°10	8°29	n.a.	T 15
F 16	3 26 24	21° 3'54	25° 4	6°33	25°33	25° 1	27°26	15°44	5°21	8°28	4°21	9°36	8° 6	8°36	n.a.	F 16
S 17	3 30 21	22° 5'04	8♋52	6° 8	25°47	25°14	27°36	15°47	5°23	8°29	4°21	9°29	8° 3	8°42	n.a.	S 17
S 18	3 34 17	23° 6'14	22°13	5°54	25°58	25°28	27°46	15°49	5°26	8°29	4°20	9°24	8° 0	8°49	n.a.	S 18
M19	3 38 14	24° 7'26	5♌ 7	5°D50	26° 7	25°43	27°55	15°52	5°29	8°30	4°19	9°20	7°57	8°55	n.a.	M19
T 20	3 42 10	25° 8'38	17°38	5°56	26°14	25°58	28° 5	15°55	5°32	8°31	4°19	9°18	7°54	9° 2	n.a.	T 20
W21	3 46 7	26° 9'51	29°50	6°11	26°18	26°13	28°15	15°58	5°35	8°32	4°18	9°D17	7°51	9° 9	n.a.	W21
T 22	3 50 4	27°11'05	11♍48	6°34	26°R21	26°29	28°26	16° 1	5°37	8°33	4°17	9°18	7°47	9°15	n.a.	T 22
F 23	3 54 0	28°12'19	23°38	7° 5	26°20	26°46	28°36	16° 5	5°40	8°34	4°17	9°20	7°44	9°22	n.a.	F 23
S 24	3 57 57	29°13'34	5♎24	7°43	26°17	27° 3	28°47	16° 8	5°43	8°35	4°16	9°R21	7°41	9°29	n.a.	S 24
S 25	4 1 53	0♐14'49	17°11	8°26	26°12	27°20	28°57	16°11	5°45	8°36	4°15	9°21	7°38	9°35	n.a.	S 25
M26	4 5 50	1°16'05	29° 4	9°15	26° 4	27°38	29° 8	16°15	5°48	8°37	4°15	9°18	7°35	9°42	n.a.	M26
T 27	4 9 46	2°17'22	11♏ 6	10° 8	25°54	27°57	29°19	16°18	5°50	8°38	4°14	9°13	7°31	9°49	n.a.	T 27
W28	4 13 43	3°18'38	23°19	11° 6	25°41	28°16	29°30	16°22	5°53	8°40	4°14	9° 6	7°28	9°55	n.a.	W28
T 29	4 17 39	4°19'55	5♐45	12° 7	25°26	28°35	29°41	16°26	5°55	8°41	4°13	8°57	7°25	10° 2	n.a.	T 29
F 30	4 21 36	5♐21'12	18♐24	13♏11	25♐ 8	28♓55	29♑52	16♒30	5♎58	8♒42	4♈13	8♎46	7♎22	10♎ 9	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s36	15s57	3n48	19s45	1s23	27s 9	3s58	3s48	1s 4	22s20	1s 2	18s14	1s53	1s14	0n39	19s 5	0s44	13s48	17s 5	4s 5	3s34	2s57		n.a.
F 2	13 56	17 38	4 29	19 24	1 8	27 10	3 55	3 44	1 1	22 18	1 2	18 14	1 53	1 16	0 39	19 5	0 44	13 48	17 5	4 4	3 33	2 58		n.a.
S 3	14 17	18 29	4 57	18 58	0 51	27 10	3 52	3 40	0 58	22 17	1 2	18 13	1 53	1 17	0 39	19 5	0 44	13 48	17 5	4 2	3 31	3 0		n.a.
S 4	14 36	18 26	5 12	18 28	0 33	27 9	3 49	3 35	0 55	22 15	1 2	18 13	1 53	1 18	0 39	19 5	0 44	13 48	17 5	4 0	3 30	3 2		n.a.
M 5	14 56	17 26	5 11	17 54	0 14	27 8	3 45	3 30	0 52	22 14	1 2	18 12	1 53	1 20	0 39	19 5	0 44	13 48	17 4	3 59	3 29	3 4		n.a.
T 6	15 15	15 29	4 53	17 16	0n 6	27 6	3 41	3 25	0 49	22 12	1 1	18 12	1 53	1 21	0 39	19 5	0 44	13 48	17 4	3 58	3 28	3 6		n.a.
W 7	15 35	12 38	4 19	16 35	0 27	27 4	3 36	3 19	0 46	22 10	1 1	18 11	1 53	1 22	0 39	19 5	0 44	13 49	17 4	3 58	3 26	3 8		n.a.
T 8	15 53	9 1	3 30	15 52	0 47	27 1	3 32	3 14	0 43	22 9	1 1	18 10	1 52	1 24	0 39	19 5	0 44	13 49	17 4	3 58	3 25	3 10		n.a.
F 9	16 12	4 48	2 26	15 8	1 7	26 58	3 27	3 8	0 40	22 7	1 1	18 10	1 52	1 25	0 39	19 4	0 44	13 49	17 4	3 59	3 24	3 11		n.a.
S 10	16 30	0 13	1 12	14 25	1 26	26 54	3 21	3 2	0 38	22 5	1 1	18 9	1 52	1 26	0 39	19 4	0 44	13 49	17 3	3 59	3 23	3 13		n.a.
S 11	16 48	4n28	0s 8	13 44	1 44	26 49	3 15	2 55	0 35	22 3	1 1	18 8	1 52	1 27	0 39	19 4	0 44	13 49	17 3	3 59	3 21	3 15		n.a.
M12	17 6	8 56	1 29	13 6	2 0	26 44	3 9	2 49	0 32	22 1	1 1	18 7	1 52	1 28	0 39	19 4	0 44	13 49	17 3	3 59	3 20	3 17		n.a.
T 13	17 23	12 50	2 43	12 31	2 13	26 38	3 2	2 42	0 30	22 0	1 1	18 7	1 52	1 30	0 39	19 4	0 44	13 49	17 2	3 58	3 19	3 19		n.a.
W14	17 40	15 52	3 45	12 2	2 25	26 32	2 55	2 35	0 27	21 58	1 1	18 6	1 52	1 31	0 39	19 3	0 44	13 49	17 2	3 56	3 18	3 21		n.a.
T 15	17 57	17 50	4 32	11 38	2 34	26 25	2 48	2 28	0 25	21 56	1 1	18 5	1 51	1 32	0 39	19 3	0 44	13 49	17 2	3 53	3 16	3 22		n.a.
F 16	18 14	18 37	5 0	11 19	2 41	26 18	2 40	2 21	0 22	21 54	1 1	18 4	1 51	1 33	0 39	19 3	0 44	13 49	17 2	3 51	3 15	3 24		n.a.
S 17	18 30	18 15	5 10	11 6	2 46	26 10	2 32	2 13	0 20	21 52	1 0	18 3	1 51	1 34	0 39	19 3	0 44	13 49	17 1	3 48	3 14	3 26		n.a.
S 18	18 45	16 53	5 2	10 59	2 49	26 1	2 23	2 5	0 18	21 50	1 0	18 2	1 51	1 35	0 39	19 3	0 44	13 49	17 1	3 46	3 12	3 28		n.a.
M19	19 1	14 41	4 39	10 56	2 51	25 52	2 13	1 58	0 15	21 48	1 0	18 1	1 51	1 37	0 39	19 2	0 44	13 49	17 1	3 44	3 11	3 30		n.a.
T 20	19 16	11 51	4 4	10 58	2 50	25 43	2 4	1 50	0 13	21 45	1 0	18 0	1 51	1 38	0 39	19 2	0 44	13 49	17 1	3 43	3 10	3 32		n.a.
W21	19 31	8 35	3 17	11 4	2 49	25 33	1 53	1 41	0 11	21 43	1 0	17 59	1 51	1 39	0 39	19 2	0 44	13 49	17 0	3 43	3 9	3 33		n.a.
T 22	19 45	5 0	2 24	11 15	2 46	25 22	1 43	1 33	0 9	21 41	1 0	17 58	1 51	1 40	0 39	19 2	0 44	13 49	17 0	3 44	3 7	3 35		n.a.
F 23	19 59	1 16	1 24	11 28	2 43	25 11	1 32	1 24	0 7	21 39	1 0	17 57	1 50	1 41	0 39	19 1	0 43	13 49	17 0	3 44	3 6	3 37		n.a.
S 24	20 13	2s30	0 21	11 44	2 39	24 59	1 20	1 16	0 5	21 37	1 0	17 56	1 50	1 42	0 39	19 1	0 43	13 49	16 59	3 45	3 5	3 39		n.a.
S 25	20 26	6 10	0n42	12 3	2 33	24 47	1 8	1 7	0 3	21 34	1 0	17 55	1 50	1 43	0 39	19 1	0 43	13 49	16 59	3 45	3 4	3 41		n.a.
M26	20 39	9 39	1 44	12 24	2 28	24 34	0 55	0 58	0 1	21 32	1 0	17 53	1 50	1 44	0 39	19 0	0 43	13 49	16 59	3 44	3 2	3 43		n.a.
T 27	20 51	12 45	2 42	12 47	2 21	24 21	0 42	0 49	0n 1	21 30	1 0	17 52	1 50	1 45	0 39	19 0	0 43	13 49	16 58	3 42	3 1	3 44		n.a.
W28	21 3	15 22	3 34	13 11	2 15	24 7	0 29	0 39	0 3	21 27	1 0	17 51	1 50	1 46	0 39	19 0	0 43	13 49	16 58	3 39	3 0	3 46		n.a.
T 29	21 15	17 19	4 16	13 37	2 8	23 53	0 15	0 30	0 5	21 25	1 0	17 50	1 50	1 47	0 39	18 59	0 43	13 49	16 58	3 35	2 59	3 48		n.a.
F 30	21s26	18s27	4n46	14s 3	2n 1	23s38	0s 1	0s20	0n 7	21s23	0s59	17s48	1s50	1s48	0n39	18s59	0s43	13s49	16s57	3s31	2s57	3s50		n.a.

Julian Day Number = 1675340.5, Delta T = 03h18m21s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'29, Lahiri = - 5°41'29 Julian Calendar 1 Nov. 127 BCE == Greg. Calendar 29 Oct. 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 127 BCE
geocentric

DECEMBER 127 BCE (-126) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 25 33	6♐22'28	1♑15	14♏19	24°R48	29♓15	0♒ 3	16♒34	6♎ 0	8♒43	4°R12	8°R35	7♎19	10♎15	n.a.	S 1
S 2	4 29 29	7°23'45	14°19	15°28	24♐26	29°36	0°14	16°38	6° 2	8°45	4♈12	8♎25	7°16	10°22	n.a.	S 2
M 3	4 33 26	8°25'02	27°35	16°40	24° 1	29°57	0°26	16°42	6° 4	8°46	4°12	8°16	7°12	10°29	n.a.	M 3
T 4	4 37 22	9°26'18	11♒ 1	17°54	23°35	0♈18	0°37	16°46	6° 7	8°47	4°11	8°10	7° 9	10°35	n.a.	T 4
W 5	4 41 19	10°27'34	24°39	19°10	23° 6	0°40	0°49	16°51	6° 9	8°49	4°11	8° 7	7° 6	10°42	n.a.	W 5
T 6	4 45 15	11°28'49	8♓28	20°27	22°36	1° 2	1° 1	16°55	6°11	8°50	4°10	8°D 5	7° 3	10°48	n.a.	T 6
F 7	4 49 12	12°30'04	22°28	21°46	22° 4	1°25	1°12	16°59	6°13	8°51	4°10	8° 6	7° 0	10°55	n.a.	F 7
S 8	4 53 9	13°31'18	6♈39	23° 6	21°30	1°48	1°24	17° 4	6°15	8°53	4°10	8°R 6	6°57	11° 2	n.a.	S 8
S 9	4 57 5	14°32'32	21° 0	24°28	20°56	2°11	1°36	17° 9	6°17	8°54	4° 9	8° 6	6°53	11° 8	n.a.	S 9
M10	5 1 2	15°33'45	5♉29	25°50	20°20	2°35	1°48	17°13	6°19	8°56	4° 9	8° 3	6°50	11°15	n.a.	M10
T 11	5 4 58	16°34'57	20° 1	27°13	19°44	2°58	2° 0	17°18	6°21	8°57	4° 9	7°57	6°47	11°22	n.a.	T 11
W12	5 8 55	17°36'10	4♊30	28°37	19° 7	3°23	2°13	17°23	6°23	8°59	4° 9	7°49	6°44	11°28	n.a.	W12
T 13	5 12 51	18°37'21	18°50	0♐ 2	18°30	3°47	2°25	17°28	6°24	9° 1	4° 9	7°38	6°41	11°35	n.a.	T 13
F 14	5 16 48	19°38'32	2♋54	1°28	17°53	4°12	2°37	17°33	6°26	9° 2	4° 8	7°26	6°37	11°42	n.a.	F 14
S 15	5 20 44	20°39'43	16°39	2°54	17°17	4°37	2°50	17°38	6°28	9° 4	4° 8	7°14	6°34	11°48	n.a.	S 15
S 16	5 24 41	21°40'54	29°59	4°22	16°41	5° 2	3° 2	17°43	6°29	9° 6	4° 8	7° 3	6°31	11°55	n.a.	S 16
M17	5 28 38	22°42'04	12♌56	5°50	16° 6	5°28	3°15	17°49	6°31	9° 7	4° 8	6°55	6°28	12° 2	n.a.	M17
T 18	5 32 34	23°43'13	25°29	7°18	15°32	5°54	3°28	17°54	6°32	9° 9	4° 8	6°49	6°25	12° 8	n.a.	T 18
W19	5 36 31	24°44'22	7♍44	8°47	14°59	6°20	3°41	17°59	6°34	9°11	4° 8	6°46	6°22	12°15	n.a.	W19
T 20	5 40 27	25°45'31	19°44	10°17	14°28	6°46	3°53	18° 5	6°35	9°12	4° 8	6°45	6°18	12°22	n.a.	T 20
F 21	5 44 24	26°46'39	1♎35	11°47	13°58	7°13	4° 6	18°10	6°37	9°14	4° 8	6°45	6°15	12°28	n.a.	F 21
S 22	5 48 20	27°47'46	13°22	13°18	13°30	7°40	4°19	18°16	6°38	9°16	4°D 8	6°44	6°12	12°35	n.a.	S 22
S 23	5 52 17	28°48'53	25°11	14°50	13° 5	8° 7	4°32	18°22	6°39	9°18	4° 8	6°43	6° 9	12°41	n.a.	S 23
M24	5 56 13	29°50'00	7♏ 7	16°22	12°41	8°35	4°45	18°27	6°40	9°20	4° 8	6°40	6° 6	12°48	n.a.	M24
T 25	6 0 10	0♑51'06	19°14	17°55	12°20	9° 2	4°59	18°33	6°41	9°22	4° 8	6°34	6° 3	12°55	n.a.	T 25
W26	6 4 7	1°52'11	1♐36	19°28	12° 1	9°30	5°12	18°39	6°43	9°23	4° 8	6°25	5°59	13° 1	n.a.	W26
T 27	6 8 3	2°53'15	14°16	21° 2	11°44	9°58	5°25	18°45	6°44	9°25	4° 8	6°13	5°56	13° 8	n.a.	T 27
F 28	6 12 0	3°54'19	27°13	22°37	11°30	10°26	5°39	18°51	6°45	9°27	4° 8	6° 0	5°53	13°15	n.a.	F 28
S 29	6 15 56	4°55'21	10♑27	24°12	11°18	10°55	5°52	18°57	6°45	9°29	4° 8	5°46	5°50	13°21	n.a.	S 29
S 30	6 19 53	5°56'23	23°55	25°48	11° 9	11°23	6° 5	19° 3	6°46	9°31	4° 8	5°33	5°47	13°28	n.a.	S 30
M31	6 23 49	6♑57'23	7♒36	27♐25	11♐ 2	11♈52	6♒19	19♒ 9	6♎47	9♒33	4♈ 9	5♎22	5♎43	13♎35	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s37	18s40	5n 2	14s31	1n53	23s23	0n14	0s10	0n 8	21s20	0s59	17s47	1s49	1s49	0n39	18s59	0s43	13s49	16s57	3s26	2s56	3s52		n.a.
S 2	21 47	17 54	5 3	14 59	1 45	23 7	0 28	0 1	0 10	21 18	0 59	17 46	1 49	1 49	0 39	18 58	0 43	13 49	16 57	3 22	2 55	3 54		n.a.
M 3	21 57	16 11	4 48	15 27	1 38	22 51	0 43	0n 9	0 12	21 15	0 59	17 44	1 49	1 50	0 39	18 58	0 43	13 48	16 56	3 19	2 53	3 55		n.a.
T 4	22 7	13 33	4 16	15 55	1 30	22 34	0 59	0 20	0 13	21 12	0 59	17 43	1 49	1 51	0 39	18 58	0 43	13 48	16 56	3 17	2 52	3 57		n.a.
W 5	22 16	10 9	3 30	16 24	1 22	22 18	1 14	0 30	0 15	21 10	0 59	17 41	1 49	1 52	0 39	18 57	0 43	13 48	16 56	3 15	2 51	3 59		n.a.
T 6	22 25	6 9	2 31	16 53	1 14	22 0	1 30	0 40	0 16	21 7	0 59	17 40	1 49	1 53	0 39	18 57	0 43	13 48	16 55	3 15	2 50	4 1		n.a.
F 7	22 33	1 46	1 22	17 21	1 6	21 43	1 45	0 51	0 18	21 4	0 59	17 39	1 49	1 54	0 39	18 57	0 43	13 48	16 55	3 15	2 48	4 3		n.a.
S 8	22 41	2n47	0 8	17 50	0 58	21 25	2 1	1 1	0 19	21 2	0 59	17 37	1 49	1 54	0 39	18 56	0 43	13 48	16 55	3 15	2 47	4 4		n.a.
S 9	22 48	7 14	1s 8	18 18	0 50	21 8	2 16	1 12	0 21	20 59	0 59	17 35	1 48	1 55	0 39	18 56	0 43	13 47	16 54	3 15	2 46	4 6		n.a.
M10	22 55	11 18	2 20	18 45	0 42	20 50	2 32	1 23	0 22	20 56	0 59	17 34	1 48	1 56	0 39	18 55	0 43	13 47	16 54	3 14	2 45	4 8		n.a.
T 11	23 1	14 41	3 23	19 12	0 34	20 32	2 47	1 34	0 24	20 53	0 59	17 32	1 48	1 57	0 39	18 55	0 43	13 47	16 54	3 11	2 43	4 10		n.a.
W12	23 7	17 8	4 13	19 39	0 26	20 14	3 2	1 44	0 25	20 51	0 59	17 31	1 48	1 57	0 39	18 54	0 43	13 47	16 53	3 8	2 42	4 12		n.a.
T 13	23 13	18 29	4 46	20 5	0 18	19 57	3 16	1 56	0 27	20 48	0 59	17 29	1 48	1 58	0 39	18 54	0 43	13 47	16 53	3 4	2 41	4 14		n.a.
F 14	23 18	18 40	5 1	20 31	0 11	19 40	3 30	2 7	0 28	20 45	0 59	17 27	1 48	1 59	0 40	18 54	0 43	13 46	16 53	2 59	2 40	4 15		n.a.
S 15	23 22	17 44	4 58	20 55	0 3	19 23	3 44	2 18	0 29	20 42	0 59	17 26	1 48	1 59	0 40	18 53	0 43	13 46	16 52	2 54	2 38	4 17		n.a.
S 16	23 27	15 51	4 38	21 19	0s 4	19 6	3 57	2 29	0 30	20 39	0 59	17 24	1 48	2 0	0 40	18 53	0 43	13 46	16 52	2 50	2 37	4 19		n.a.
M17	23 30	13 12	4 5	21 42	0 11	18 50	4 10	2 41	0 32	20 36	0 59	17 22	1 48	2 1	0 40	18 52	0 43	13 45	16 52	2 47	2 36	4 21		n.a.
T 18	23 33	10 1	3 20	22 5	0 19	18 35	4 22	2 52	0 33	20 33	0 59	17 21	1 48	2 1	0 40	18 52	0 43	13 45	16 51	2 44	2 34	4 23		n.a.
W19	23 36	6 29	2 28	22 26	0 26	18 20	4 33	3 4	0 34	20 30	0 59	17 19	1 48	2 2	0 40	18 51	0 43	13 45	16 51	2 43	2 33	4 24		n.a.
T 20	23 38	2 45	1 29	22 46	0 32	18 6	4 44	3 15	0 35	20 27	0 59	17 17	1 47	2 2	0 40	18 51	0 43	13 45	16 50	2 42	2 32	4 26		n.a.
F 21	23 40	1s 3	0 27	23 6	0 39	17 52	4 54	3 27	0 36	20 24	0 59	17 15	1 47	2 3	0 40	18 50	0 43	13 44	16 50	2 42	2 31	4 28		n.a.
S 22	23 41	4 48	0n35	23 24	0 45	17 40	5 3	3 39	0 37	20 20	0 58	17 13	1 47	2 3	0 40	18 50	0 43	13 44	16 50	2 42	2 29	4 30		n.a.
S 23	23 42	8 22	1 36	23 41	0 52	17 28	5 12	3 51	0 38	20 17	0 58	17 12	1 47	2 4	0 40	18 49	0 43	13 44	16 49	2 42	2 28	4 32		n.a.
M24	23 42	11 37	2 34	23 57	0 58	17 17	5 20	4 3	0 40	20 14	0 58	17 10	1 47	2 4	0 40	18 49	0 43	13 43	16 49	2 40	2 27	4 33		n.a.
T 25	23 42	14 27	3 25	24 12	1 4	17 7	5 27	4 14	0 41	20 11	0 58	17 8	1 47	2 5	0 40	18 48	0 43	13 43	16 49	2 38	2 26	4 35		n.a.
W26	23 42	16 41	4 7	24 26	1 9	16 58	5 33	4 26	0 42	20 7	0 58	17 6	1 47	2 5	0 40	18 48	0 43	13 43	16 48	2 34	2 24	4 37		n.a.
T 27	23 41	18 9	4 39	24 38	1 15	16 51	5 39	4 39	0 43	20 4	0 58	17 4	1 47	2 5	0 40	18 47	0 43	13 42	16 48	2 30	2 23	4 39		n.a.
F 28	23 39	18 44	4 57	24 50	1 20	16 44	5 44	4 51	0 44	20 1	0 58	17 2	1 47	2 6	0 40	18 47	0 43	13 42	16 48	2 24	2 22	4 41		n.a.
S 29	23 37	18 19	4 59	24 59	1 25	16 37	5 49	5 3	0 45	19 57	0 58	17 0	1 47	2 6	0 40	18 46	0 43	13 41	16 47	2 19	2 20	4 42		n.a.
S 30	23 34	16 53	4 45	25 8	1 29	16 32	5 53	5 15	0 45	19 54	0 58	16 58	1 47	2 6	0 40	18 46	0 43	13 41	16 47	2 14	2 19	4 44		n.a.
M31	23s31	14s28	4n15	25s15	1s34	16s28	5n56	5n27	0n46	19s51	0s58	16s56	1s47	2s 7	0n40	18s45	0s43	13s41	16s46	2s 9	2s18	4s46		n.a.

Julian Day Number = 1675370.5, Delta T = 03h18m20s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'25, Lahiri = - 5°41'25 Julian Calendar 1 Dec. 127 BCE == Greg. Calendar 28 Nov. 127 BCE

The year -126 astronomical counting style corresponds to year 127 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

JANUARY 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 46	7♑58'22	21♒25	29♐ 2	10°R58	12♈21	6♒32	19♒15	6♎48	9♒35	4♈ 9	5°R14	5♎40	13♎41	n.a.	T 1
W 2	6 31 43	8°59'19	5♓21	0♑40	10°D56	12°51	6°46	19°22	6°49	9°37	4° 9	5♎ 9	5°37	13°48	n.a.	W 2
T 3	6 35 39	10° 0'15	19°20	2°19	10♐57	13°20	7° 0	19°28	6°49	9°39	4° 9	5° 6	5°34	13°55	n.a.	T 3
F 4	6 39 36	11° 1'10	3♈23	3°58	11° 0	13°50	7°14	19°34	6°50	9°41	4°10	5° 6	5°31	14° 1	n.a.	F 4
S 5	6 43 32	12° 2'03	17°27	5°38	11° 5	14°19	7°27	19°41	6°50	9°43	4°10	5° 6	5°28	14° 8	n.a.	S 5
S 6	6 47 29	13° 2'54	1♉33	7°19	11°13	14°49	7°41	19°47	6°51	9°45	4°10	5° 5	5°24	14°15	n.a.	S 6
M 7	6 51 25	14° 3'44	15°39	9° 0	11°23	15°19	7°55	19°54	6°51	9°47	4°11	5° 2	5°21	14°21	n.a.	M 7
T 8	6 55 22	15° 4'32	29°44	10°42	11°35	15°50	8° 9	20° 0	6°52	9°50	4°11	4°56	5°18	14°28	n.a.	T 8
W 9	6 59 18	16° 5'19	13♊45	12°26	11°49	16°20	8°23	20° 7	6°52	9°52	4°11	4°47	5°15	14°34	n.a.	W 9
T 10	7 3 15	17° 6'04	27°39	14° 9	12° 5	16°51	8°37	20°14	6°52	9°54	4°12	4°36	5°12	14°41	n.a.	T 10
F 11	7 7 12	18° 6'47	11♋20	15°54	12°24	17°21	8°51	20°20	6°52	9°56	4°12	4°24	5° 9	14°48	n.a.	F 11
S 12	7 11 8	19° 7'29	24°46	17°40	12°44	17°52	9° 5	20°27	6°52	9°58	4°13	4°11	5° 5	14°54	n.a.	S 12
S 13	7 15 5	20° 8'09	7♌55	19°26	13° 6	18°23	9°19	20°34	6°53	10° 0	4°13	4° 0	5° 2	15° 1	n.a.	S 13
M14	7 19 1	21° 8'48	20°44	21°13	13°30	18°54	9°33	20°41	6°R53	10° 2	4°14	3°50	4°59	15° 8	n.a.	M14
T 15	7 22 58	22° 9'26	3♍14	23° 1	13°56	19°26	9°47	20°47	6°53	10° 5	4°14	3°43	4°56	15°14	n.a.	T 15
W16	7 26 54	23°10'02	15°28	24°49	14°23	19°57	10° 1	20°54	6°52	10° 7	4°15	3°39	4°53	15°21	n.a.	W16
T 17	7 30 51	24°10'37	27°28	26°39	14°52	20°28	10°15	21° 1	6°52	10° 9	4°15	3°38	4°49	15°28	n.a.	T 17
F 18	7 34 47	25°11'10	9♎20	28°29	15°23	21° 0	10°30	21° 8	6°52	10°11	4°16	3°D38	4°46	15°34	n.a.	F 18
S 19	7 38 44	26°11'42	21° 8	0♒19	15°55	21°32	10°44	21°15	6°52	10°13	4°16	3°R38	4°43	15°41	n.a.	S 19
S 20	7 42 41	27°12'12	2♏58	2°11	16°29	22° 4	10°58	21°22	6°52	10°16	4°17	3°38	4°40	15°48	n.a.	S 20
M21	7 46 37	28°12'42	14°54	4° 3	17° 4	22°35	11°12	21°29	6°51	10°18	4°18	3°37	4°37	15°54	n.a.	M21
T 22	7 50 34	29°13'09	27° 4	5°55	17°40	23° 8	11°27	21°36	6°51	10°20	4°18	3°33	4°34	16° 1	n.a.	T 22
W23	7 54 30	0♒13'35	9♐30	7°47	18°18	23°40	11°41	21°44	6°50	10°22	4°19	3°27	4°30	16° 8	n.a.	W23
T 24	7 58 27	1°14'00	22°17	9°40	18°56	24°12	11°55	21°51	6°50	10°25	4°20	3°18	4°27	16°14	n.a.	T 24
F 25	8 2 23	2°14'23	5♑25	11°32	19°36	24°44	12°10	21°58	6°49	10°27	4°20	3° 8	4°24	16°21	n.a.	F 25
S 26	8 6 20	3°14'45	18°55	13°24	20°18	25°17	12°24	22° 5	6°49	10°29	4°21	2°57	4°21	16°27	n.a.	S 26
S 27	8 10 16	4°15'04	2♒45	15°16	21° 0	25°50	12°39	22°12	6°48	10°31	4°22	2°47	4°18	16°34	n.a.	S 27
M28	8 14 13	5°15'22	16°51	17° 7	21°43	26°22	12°53	22°20	6°47	10°34	4°23	2°39	4°14	16°41	n.a.	M28
T 29	8 18 10	6°15'38	1♓ 8	18°56	22°27	26°55	13° 7	22°27	6°46	10°36	4°24	2°32	4°11	16°47	n.a.	T 29
W30	8 22 6	7°15'51	15°30	20°44	23°13	27°28	13°22	22°34	6°46	10°38	4°24	2°29	4° 8	16°54	n.a.	W30
T 31	8 26 3	8♒16'03	29♓52	22♒30	23♐59	28♈ 1	13♒36	22♒42	6♎45	10♒40	4♈25	2°D27	4♎ 5	17♎ 1	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23s28	11s13	3n29	25s20	1s38	16s25	5n59	5n40	0n47	19s47	0s58	16s54	1s47	2s 7	0n40	18s45	0s43	13s40	16s46	2s 6	2s17	4s48			n.a.
W 2	23 24	7 20	2 30	25 24	1 42	16 23	6 1	5 52	0 48	19 44	0 58	16 52	1 46	2 7	0 40	18 44	0 43	13 40	16 46	2 4	2 15	4 50			n.a.
T 3	23 20	3 0	1 22	25 27	1 45	16 21	6 3	6 4	0 49	19 40	0 58	16 50	1 46	2 7	0 40	18 44	0 43	13 39	16 45	2 3	2 14	4 51			n.a.
F 4	23 15	1n30	0 9	25 27	1 49	16 20	6 4	6 17	0 50	19 37	0 58	16 48	1 46	2 8	0 40	18 43	0 43	13 39	16 45	2 3	2 13	4 53			n.a.
S 5	23 9	5 56	1s 5	25 27	1 52	16 21	6 4	6 29	0 51	19 33	0 58	16 46	1 46	2 8	0 40	18 42	0 43	13 38	16 45	2 3	2 12	4 55			n.a.
S 6	23 4	10 2	2 15	25 24	1 54	16 21	6 4	6 42	0 51	19 30	0 58	16 43	1 46	2 8	0 40	18 42	0 43	13 38	16 44	2 2	2 10	4 57			n.a.
M 7	22 57	13 34	3 17	25 20	1 56	16 23	6 4	6 54	0 52	19 26	0 58	16 41	1 46	2 8	0 40	18 41	0 43	13 37	16 44	2 1	2 9	4 59			n.a.
T 8	22 51	16 18	4 7	25 14	1 58	16 25	6 3	7 7	0 53	19 22	0 58	16 39	1 46	2 8	0 40	18 41	0 43	13 37	16 44	1 59	2 8	5 0			n.a.
W 9	22 44	18 3	4 41	25 6	2 0	16 28	6 2	7 19	0 54	19 19	0 58	16 37	1 46	2 8	0 40	18 40	0 43	13 37	16 43	1 55	2 6	5 2			n.a.
T 10	22 36	18 42	4 59	24 57	2 1	16 32	6 1	7 32	0 54	19 15	0 58	16 35	1 46	2 8	0 40	18 40	0 43	13 36	16 43	1 51	2 5	5 4			n.a.
F 11	22 28	18 15	4 59	24 46	2 2	16 36	5 59	7 44	0 55	19 11	0 58	16 33	1 46	2 8	0 40	18 39	0 43	13 36	16 43	1 46	2 4	5 6			n.a.
S 12	22 20	16 47	4 42	24 32	2 2	16 41	5 57	7 57	0 56	19 7	0 58	16 30	1 46	2 8	0 40	18 38	0 43	13 35	16 42	1 41	2 3	5 8			n.a.
S 13	22 11	14 27	4 11	24 17	2 2	16 46	5 55	8 9	0 56	19 4	0 58	16 28	1 46	2 8	0 40	18 38	0 43	13 35	16 42	1 36	2 1	5 9			n.a.
M14	22 1	11 28	3 27	24 0	2 1	16 51	5 52	8 22	0 57	19 0	0 58	16 26	1 46	2 8	0 41	18 37	0 43	13 34	16 41	1 32	2 0	5 11			n.a.
T 15	21 52	8 2	2 34	23 41	2 0	16 57	5 49	8 34	0 58	18 56	0 58	16 24	1 46	2 8	0 41	18 37	0 43	13 34	16 41	1 30	1 59	5 13			n.a.
W16	21 42	4 20	1 35	23 20	1 58	17 3	5 46	8 47	0 58	18 52	0 58	16 21	1 46	2 8	0 41	18 36	0 43	13 33	16 41	1 28	1 58	5 15			n.a.
T 17	21 31	0 31	0 33	22 57	1 56	17 10	5 42	9 0	0 59	18 48	0 58	16 19	1 46	2 8	0 41	18 35	0 43	13 32	16 40	1 28	1 56	5 17			n.a.
F 18	21 20	3s16	0n30	22 33	1 53	17 17	5 39	9 12	1 0	18 44	0 58	16 17	1 46	2 8	0 41	18 35	0 43	13 32	16 40	1 28	1 55	5 18			n.a.
S 19	21 9	6 55	1 32	22 6	1 50	17 24	5 35	9 25	1 0	18 41	0 58	16 15	1 46	2 8	0 41	18 34	0 43	13 31	16 40	1 28	1 54	5 20			n.a.
S 20	20 57	10 17	2 30	21 37	1 46	17 31	5 31	9 37	1 1	18 37	0 58	16 12	1 46	2 8	0 41	18 34	0 43	13 31	16 39	1 28	1 52	5 22			n.a.
M21	20 45	13 17	3 22	21 6	1 42	17 39	5 27	9 50	1 1	18 33	0 59	16 10	1 46	2 8	0 41	18 33	0 43	13 30	16 39	1 27	1 51	5 24			n.a.
T 22	20 33	15 44	4 5	20 34	1 36	17 47	5 22	10 3	1 2	18 29	0 59	16 8	1 46	2 7	0 41	18 32	0 43	13 30	16 39	1 26	1 50	5 25			n.a.
W23	20 20	17 32	4 39	19 59	1 31	17 55	5 18	10 15	1 3	18 25	0 59	16 5	1 46	2 7	0 41	18 32	0 43	13 29	16 38	1 23	1 49	5 27			n.a.
T 24	20 6	18 31	4 59	19 23	1 24	18 2	5 13	10 28	1 3	18 21	0 59	16 3	1 46	2 7	0 41	18 31	0 43	13 29	16 38	1 20	1 47	5 29			n.a.
F 25	19 53	18 32	5 4	18 45	1 17	18 10	5 8	10 40	1 4	18 17	0 59	16 0	1 46	2 7	0 41	18 31	0 43	13 28	16 38	1 16	1 46	5 31			n.a.
S 26	19 39	17 31	4 53	18 5	1 9	18 18	5 3	10 53	1 4	18 13	0 59	15 58	1 46	2 7	0 41	18 30	0 43	13 27	16 37	1 11	1 45	5 33			n.a.
S 27	19 25	15 29	4 24	17 24	1 1	18 26	4 58	11 5	1 5	18 8	0 59	15 56	1 46	2 6	0 41	18 29	0 43	13 27	16 37	1 7	1 44	5 34			n.a.
M28	19 10	12 29	3 39	16 42	0 52	18 34	4 53	11 18	1 5	18 4	0 59	15 53	1 46	2 6	0 41	18 29	0 43	13 26	16 37	1 4	1 42	5 36			n.a.
T 29	18 55	8 42	2 40	15 58	0 42	18 42	4 48	11 30	1 6	18 0	0 59	15 51	1 46	2 6	0 41	18 28	0 43	13 26	16 37	1 1	1 41	5 38			n.a.
W30	18 40	4 24	1 30	15 14	0 31	18 50	4 43	11 43	1 6	17 56	0 59	15 48	1 46	2 5	0 41	18 28	0 43	13 25	16 36	1 0	1 40	5 40			n.a.
T 31	18s24	0n10	0n14	14s29	0s20	18s57	4n37	11n55	1n 7	17s52	0s59	15s46	1s46	2s 5	0n41	18s27	0s43	13s24	16s36	0s59	1s38	5s41			n.a.

Julian Day Number = 1675401.5, Delta T = 03h18m19s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'21, Lahiri = - 5°41'20 Julian Calendar 1 Jan. 126 BCE == Greg. Calendar 29 Dec. 127 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

FEBRUARY 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 29 59	9♒16'12	14♈11	24♒14	24♐46	28♈34	13♒51	22♒49	6°R44	10♒43	4♈26	2♎28	4♎ 2	17♎ 7	n.a.	F 1
S 2	8 33 56	10°16'19	28°24	25°54	25°33	29° 7	14° 5	22°56	6♎43	10°45	4°27	2°29	3°59	17°14	n.a.	S 2
S 3	8 37 52	11°16'24	12♉30	27°31	26°22	29°40	14°20	23° 4	6°42	10°47	4°28	2°R29	3°55	17°21	n.a.	S 3
M 4	8 41 49	12°16'27	26°27	29° 4	27°11	0♉14	14°34	23°11	6°41	10°50	4°29	2°28	3°52	17°27	n.a.	M 4
T 5	8 45 45	13°16'27	10♊15	0♓33	28° 2	0°47	14°49	23°18	6°40	10°52	4°30	2°25	3°49	17°34	n.a.	T 5
W 6	8 49 42	14°16'25	23°52	1°56	28°52	1°20	15° 3	23°26	6°38	10°54	4°31	2°20	3°46	17°41	n.a.	W 6
T 7	8 53 38	15°16'21	7♋20	3°14	29°44	1°54	15°18	23°33	6°37	10°56	4°31	2°13	3°43	17°47	n.a.	T 7
F 8	8 57 35	16°16'14	20°35	4°25	0♌36	2°28	15°32	23°41	6°36	10°59	4°32	2° 5	3°40	17°54	n.a.	F 8
S 9	9 1 32	17°16'06	3♌37	5°29	1°29	3° 1	15°47	23°48	6°35	11° 1	4°33	1°57	3°36	18° 1	n.a.	S 9
S 10	9 5 28	18°15'55	16°25	6°27	2°23	3°35	16° 1	23°56	6°33	11° 3	4°34	1°49	3°33	18° 7	n.a.	S 10
M11	9 9 25	19°15'42	28°59	7°17	3°17	4° 9	16°16	24° 3	6°32	11° 5	4°35	1°43	3°30	18°14	n.a.	M11
T 12	9 13 21	20°15'27	11♍19	7°59	4°11	4°43	16°30	24°11	6°30	11° 8	4°36	1°39	3°27	18°21	n.a.	T 12
W13	9 17 18	21°15'11	23°27	8°32	5° 7	5°17	16°45	24°18	6°29	11°10	4°37	1°37	3°24	18°27	n.a.	W13
T 14	9 21 14	22°14'52	5♎24	8°58	6° 2	5°51	16°59	24°26	6°27	11°12	4°39	1°D37	3°20	18°34	n.a.	T 14
F 15	9 25 11	23°14'31	17°15	9°15	6°59	6°25	17°13	24°33	6°26	11°14	4°40	1°38	3°17	18°40	n.a.	F 15
S 16	9 29 7	24°14'08	29° 3	9°23	7°55	6°59	17°28	24°40	6°24	11°17	4°41	1°40	3°14	18°47	n.a.	S 16
S 17	9 33 4	25°13'44	10♏53	9°R23	8°53	7°33	17°42	24°48	6°22	11°19	4°42	1°41	3°11	18°54	n.a.	S 17
M18	9 37 1	26°13'17	22°50	9°15	9°50	8° 7	17°57	24°55	6°21	11°21	4°43	1°R42	3° 8	19° 0	n.a.	M18
T 19	9 40 57	27°12'49	4♐58	8°59	10°48	8°42	18°11	25° 3	6°19	11°23	4°44	1°42	3° 5	19° 7	n.a.	T 19
W20	9 44 54	28°12'19	17°23	8°36	11°47	9°16	18°25	25°10	6°17	11°26	4°45	1°40	3° 1	19°14	n.a.	W20
T 21	9 48 50	29°11'47	0♑10	8° 7	12°46	9°50	18°40	25°18	6°15	11°28	4°46	1°37	2°58	19°20	n.a.	T 21
F 22	9 52 47	0♓11'14	13°20	7°31	13°45	10°25	18°54	25°25	6°13	11°30	4°47	1°33	2°55	19°27	n.a.	F 22
S 23	9 56 43	1°10'38	26°56	6°50	14°45	10°59	19° 9	25°33	6°12	11°32	4°49	1°28	2°52	19°34	n.a.	S 23
S 24	10 0 40	2°10'00	10♒56	6° 5	15°45	11°34	19°23	25°40	6°10	11°34	4°50	1°23	2°49	19°40	n.a.	S 24
M25	10 4 36	3° 9'20	25°17	5°16	16°46	12° 8	19°37	25°48	6° 8	11°36	4°51	1°20	2°46	19°47	n.a.	M25
T 26	10 8 33	4° 8'39	9♓55	4°26	17°46	12°43	19°51	25°55	6° 6	11°39	4°52	1°17	2°42	19°54	n.a.	T 26
W27	10 12 29	5° 7'54	24°42	3°34	18°47	13°18	20° 6	26° 3	6° 4	11°41	4°53	1°D16	2°39	20° 0	n.a.	W27
T 28	10 16 26	6♓ 7'08	9♈31	2♓43	19♑49	13♉53	20♒20	26♒10	6♎ 2	11♒43	4♈55	1♎16	2♎36	20♎ 7	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s 8	4n42	1s 3	13s43	0s 8	19s 5	4n32	12n 8	1n 7	17s48	0s59	15s44	1s46	2s 4	0n41	18s26	0s43	13s24	16s36	0s59	1s37	5s43		n.a.
S 2	17 52	8 56	2 15	12 58	0n 4	19 12	4 26	12 20	1 7	17 44	0 59	15 41	1 46	2 4	0 41	18 26	0 43	13 23	16 35	1 0	1 36	5 45		n.a.
S 3	17 35	12 37	3 18	12 12	0 17	19 19	4 20	12 32	1 8	17 39	0 59	15 39	1 46	2 4	0 41	18 25	0 43	13 23	16 35	1 0	1 35	5 47		n.a.
M 4	17 18	15 32	4 9	11 27	0 31	19 26	4 15	12 44	1 8	17 35	0 59	15 36	1 46	2 3	0 41	18 24	0 43	13 22	16 35	1 0	1 33	5 49		n.a.
T 5	17 1	17 32	4 45	10 43	0 44	19 33	4 9	12 57	1 9	17 31	0 59	15 34	1 46	2 3	0 41	18 24	0 43	13 21	16 35	0 58	1 32	5 50		n.a.
W 6	16 44	18 30	5 5	10 0	0 58	19 39	4 3	13 9	1 9	17 27	0 59	15 31	1 46	2 2	0 41	18 23	0 43	13 21	16 34	0 56	1 31	5 52		n.a.
T 7	16 26	18 24	5 7	9 18	1 13	19 45	3 57	13 21	1 9	17 22	0 59	15 29	1 46	2 2	0 41	18 23	0 43	13 20	16 34	0 54	1 29	5 54		n.a.
F 8	16 8	17 18	4 52	8 39	1 27	19 51	3 51	13 33	1 10	17 18	0 59	15 26	1 46	2 1	0 41	18 22	0 43	13 20	16 34	0 50	1 28	5 56		n.a.
S 9	15 50	15 18	4 23	8 2	1 41	19 56	3 46	13 45	1 10	17 14	0 59	15 24	1 46	2 1	0 41	18 21	0 43	13 19	16 33	0 47	1 27	5 57		n.a.
S 10	15 31	12 35	3 40	7 27	1 56	20 2	3 40	13 57	1 11	17 9	0 59	15 21	1 46	2 0	0 41	18 21	0 43	13 18	16 33	0 44	1 26	5 59		n.a.
M11	15 13	9 20	2 48	6 56	2 10	20 6	3 34	14 9	1 11	17 5	0 59	15 19	1 46	1 59	0 41	18 20	0 43	13 18	16 33	0 42	1 24	6 1		n.a.
T 12	14 54	5 44	1 48	6 28	2 23	20 11	3 28	14 21	1 11	17 1	1 0	15 16	1 46	1 59	0 41	18 20	0 43	13 17	16 33	0 40	1 23	6 3		n.a.
W13	14 35	1 57	0 44	6 3	2 36	20 15	3 22	14 33	1 12	16 56	1 0	15 14	1 46	1 58	0 41	18 19	0 43	13 16	16 32	0 39	1 22	6 4		n.a.
T 14	14 15	1s51	0n21	5 42	2 48	20 19	3 16	14 45	1 12	16 52	1 0	15 12	1 46	1 58	0 41	18 18	0 43	13 16	16 32	0 39	1 21	6 6		n.a.
F 15	13 55	5 33	1 24	5 25	2 59	20 22	3 10	14 57	1 12	16 48	1 0	15 9	1 46	1 57	0 41	18 18	0 43	13 15	16 32	0 39	1 19	6 8		n.a.
S 16	13 35	9 1	2 24	5 13	3 10	20 25	3 4	15 8	1 13	16 43	1 0	15 7	1 46	1 56	0 41	18 17	0 44	13 14	16 32	0 40	1 18	6 10		n.a.
S 17	13 15	12 7	3 18	5 4	3 19	20 27	2 58	15 20	1 13	16 39	1 0	15 4	1 46	1 56	0 41	18 16	0 44	13 14	16 31	0 41	1 17	6 11		n.a.
M18	12 55	14 45	4 4	5 0	3 27	20 29	2 52	15 31	1 13	16 34	1 0	15 2	1 46	1 55	0 41	18 16	0 44	13 13	16 31	0 41	1 15	6 13		n.a.
T 19	12 35	16 47	4 40	5 0	3 33	20 31	2 46	15 43	1 13	16 30	1 0	14 59	1 46	1 54	0 41	18 15	0 44	13 12	16 31	0 41	1 14	6 15		n.a.
W20	12 14	18 4	5 3	5 4	3 38	20 32	2 40	15 54	1 14	16 26	1 0	14 57	1 46	1 53	0 42	18 15	0 44	13 12	16 31	0 40	1 13	6 17		n.a.
T 21	11 53	18 30	5 13	5 13	3 41	20 32	2 34	16 6	1 14	16 21	1 0	14 54	1 46	1 53	0 42	18 14	0 44	13 11	16 31	0 39	1 12	6 19		n.a.
F 22	11 32	17 57	5 6	5 25	3 42	20 32	2 28	16 17	1 14	16 17	1 0	14 52	1 47	1 52	0 42	18 13	0 44	13 11	16 30	0 37	1 10	6 20		n.a.
S 23	11 11	16 23	4 43	5 40	3 42	20 32	2 22	16 28	1 14	16 12	1 0	14 49	1 47	1 51	0 42	18 13	0 44	13 10	16 30	0 35	1 9	6 22		n.a.
S 24	10 49	13 48	4 2	5 59	3 39	20 31	2 16	16 39	1 15	16 8	1 1	14 47	1 47	1 50	0 42	18 12	0 44	13 9	16 30	0 34	1 8	6 24		n.a.
M25	10 28	10 20	3 5	6 21	3 35	20 29	2 10	16 50	1 15	16 3	1 1	14 44	1 47	1 49	0 42	18 12	0 44	13 9	16 30	0 32	1 7	6 26		n.a.
T 26	10 6	6 10	1 55	6 45	3 29	20 28	2 4	17 1	1 15	15 59	1 1	14 42	1 47	1 49	0 42	18 11	0 44	13 8	16 30	0 31	1 5	6 27		n.a.
W27	9 44	1 35	0 36	7 11	3 21	20 25	1 58	17 12	1 15	15 54	1 1	14 39	1 47	1 48	0 42	18 11	0 44	13 7	16 29	0 30	1 4	6 29		n.a.
T 28	9s22	3n 7	0s45	7s39	3n12	20s22	1n53	17n23	1n16	15s50	1s 1	14s37	1s47	1s47	0n42	18s10	0s44	13s 7	16s29	0s30	1s 3	6s31		n.a.

Julian Day Number = 1675432.5, Delta T = 03h18m18s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'17, Lahiri = - 5°41'16 Julian Calendar 1 Feb. 126 BCE == Greg. Calendar 29 Jan. 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

MARCH 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 20 23	7♓ 6'19	24♈14	1°R52	20♋50	14♉27	20♒34	26♒18	5°R59	11♒45	4♈56	1♎17	2♎33	20♎14	n.a.	F 1
S 2	10 24 19	8° 5'28	8♉47	1♓ 3	21°52	15° 2	20°48	26°25	5♎57	11°47	4°57	1°18	2°30	20°20	n.a.	S 2
S 3	10 28 16	9° 4'35	23° 5	0°18	22°55	15°37	21° 2	26°32	5°55	11°49	4°58	1°19	2°26	20°27	n.a.	S 3
M 4	10 32 12	10° 3'39	7♊ 6	29♒35	23°57	16°12	21°16	26°40	5°53	11°51	5° 0	1°R20	2°23	20°34	n.a.	M 4
T 5	10 36 9	11° 2'41	20°49	28°57	25° 0	16°47	21°30	26°47	5°51	11°53	5° 1	1°20	2°20	20°40	n.a.	T 5
W 6	10 40 5	12° 1'40	4♋16	28°23	26° 3	17°22	21°44	26°54	5°49	11°55	5° 2	1°19	2°17	20°47	n.a.	W 6
T 7	10 44 2	13° 0'37	17°26	27°54	27° 6	17°57	21°58	27° 2	5°46	11°57	5° 3	1°17	2°14	20°53	n.a.	T 7
F 8	10 47 58	13°59'32	0♌20	27°31	28°10	18°32	22°12	27° 9	5°44	11°59	5° 5	1°14	2°11	21° 0	n.a.	F 8
S 9	10 51 55	14°58'24	13° 1	27°13	29°14	19° 7	22°26	27°16	5°42	12° 1	5° 6	1°12	2° 7	21° 7	n.a.	S 9
S 10	10 55 52	15°57'14	25°29	27° 0	0♒18	19°43	22°40	27°23	5°39	12° 3	5° 7	1° 9	2° 4	21°13	n.a.	S 10
M11	10 59 48	16°56'02	7♍46	26°53	1°22	20°18	22°54	27°31	5°37	12° 5	5° 9	1° 8	2° 1	21°20	n.a.	M11
T 12	11 3 45	17°54'47	19°53	26°D51	2°26	20°53	23° 8	27°38	5°35	12° 7	5°10	1° 7	1°58	21°27	n.a.	T 12
W13	11 7 41	18°53'31	1♎52	26°55	3°31	21°28	23°22	27°45	5°32	12° 9	5°11	1°D 6	1°55	21°33	n.a.	W13
T 14	11 11 38	19°52'12	13°45	27° 3	4°36	22° 3	23°35	27°52	5°30	12°11	5°13	1° 7	1°51	21°40	n.a.	T 14
F 15	11 15 34	20°50'52	25°34	27°17	5°41	22°39	23°49	27°59	5°27	12°13	5°14	1° 7	1°48	21°47	n.a.	F 15
S 16	11 19 31	21°49'29	7♏22	27°36	6°46	23°14	24° 3	28° 6	5°25	12°15	5°15	1° 8	1°45	21°53	n.a.	S 16
S 17	11 23 27	22°48'05	19°13	27°59	7°51	23°50	24°16	28°13	5°22	12°17	5°17	1° 9	1°42	22° 0	n.a.	S 17
M18	11 27 24	23°46'39	1♐10	28°27	8°57	24°25	24°30	28°21	5°20	12°18	5°18	1°10	1°39	22° 7	n.a.	M18
T 19	11 31 20	24°45'11	13°18	28°59	10° 3	25° 0	24°43	28°28	5°18	12°20	5°19	1°11	1°36	22°13	n.a.	T 19
W20	11 35 17	25°43'42	25°42	29°35	11° 9	25°36	24°57	28°34	5°15	12°22	5°21	1°R11	1°32	22°20	n.a.	W20
T 21	11 39 14	26°42'11	8♑24	0♓15	12°15	26°11	25°10	28°41	5°13	12°24	5°22	1°11	1°29	22°27	n.a.	T 21
F 22	11 43 10	27°40'38	21°30	0°58	13°21	26°47	25°23	28°48	5°10	12°25	5°23	1°10	1°26	22°33	n.a.	F 22
S 23	11 47 7	28°39'03	5♒ 1	1°46	14°27	27°23	25°37	28°55	5° 7	12°27	5°25	1°10	1°23	22°40	n.a.	S 23
S 24	11 51 3	29°37'27	18°59	2°36	15°34	27°58	25°50	29° 2	5° 5	12°29	5°26	1°10	1°20	22°47	n.a.	S 24
M25	11 55 0	0♈35'49	3♓23	3°30	16°41	28°34	26° 3	29° 9	5° 2	12°31	5°28	1°10	1°17	22°53	n.a.	M25
T 26	11 58 56	1°34'09	18° 8	4°27	17°48	29° 9	26°16	29°16	5° 0	12°32	5°29	1°D10	1°13	23° 0	n.a.	T 26
W27	12 2 53	2°32'27	3♈ 8	5°27	18°54	29°45	26°29	29°22	4°57	12°34	5°30	1°R10	1°10	23° 7	n.a.	W27
T 28	12 6 49	3°30'44	18°15	6°29	20° 2	0♊21	26°42	29°29	4°55	12°35	5°32	1°10	1° 7	23°13	n.a.	T 28
F 29	12 10 46	4°28'58	3♉19	7°35	21° 9	0°57	26°55	29°36	4°52	12°37	5°33	1° 9	1° 4	23°20	n.a.	F 29
S 30	12 14 43	5°27'11	18°13	8°43	22°16	1°32	27° 8	29°42	4°50	12°39	5°34	1° 9	1° 1	23°27	n.a.	S 30
S 31	12 18 39	6♈25'21	2♊49	9♓53	23♒24	2♊ 8	27♒21	29♒49	4♎47	12♒40	5♈36	1♎ 9	0♎57	23♎33	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9s 0	7n35	2s 3	8s 7	3n 1	20s19	1n47	17n34	1n16	15s46	1s 1	14s34	1s47	1s46	0n42	18s 9	0s44	13s 6	16s29	0s31	1s 1	6s33		n.a.
S 2	8 38	11 33	3 12	8 35	2 49	20 15	1 41	17 44	1 16	15 41	1 1	14 32	1 47	1 45	0 42	18 9	0 44	13 5	16 29	0 31	1 0	6 34		n.a.
S 3	8 15	14 45	4 8	9 4	2 36	20 10	1 36	17 55	1 16	15 37	1 1	14 29	1 47	1 44	0 42	18 8	0 44	13 5	16 29	0 32	0 59	6 36		n.a.
M 4	7 53	17 0	4 48	9 32	2 22	20 5	1 30	18 5	1 16	15 32	1 1	14 27	1 47	1 44	0 42	18 8	0 44	13 4	16 28	0 32	0 58	6 38		n.a.
T 5	7 30	18 13	5 10	9 59	2 7	19 59	1 24	18 16	1 17	15 28	1 1	14 24	1 47	1 43	0 42	18 7	0 44	13 3	16 28	0 32	0 56	6 39		n.a.
W 6	7 8	18 23	5 15	10 25	1 52	19 53	1 19	18 26	1 17	15 23	1 2	14 22	1 47	1 42	0 42	18 7	0 44	13 3	16 28	0 32	0 55	6 41		n.a.
T 7	6 45	17 33	5 3	10 49	1 37	19 46	1 13	18 36	1 17	15 19	1 2	14 19	1 48	1 41	0 42	18 6	0 44	13 2	16 28	0 31	0 54	6 43		n.a.
F 8	6 22	15 49	4 36	11 12	1 21	19 39	1 8	18 46	1 17	15 14	1 2	14 17	1 48	1 40	0 42	18 5	0 44	13 1	16 28	0 30	0 52	6 45		n.a.
S 9	5 59	13 20	3 56	11 33	1 6	19 31	1 3	18 56	1 17	15 10	1 2	14 14	1 48	1 39	0 42	18 5	0 44	13 1	16 28	0 29	0 51	6 46		n.a.
S 10	5 36	10 16	3 5	11 52	0 50	19 23	0 57	19 6	1 18	15 5	1 2	14 12	1 48	1 38	0 42	18 4	0 44	13 0	16 28	0 28	0 50	6 48		n.a.
M11	5 13	6 49	2 6	12 9	0 35	19 14	0 52	19 16	1 18	15 1	1 2	14 10	1 48	1 37	0 42	18 4	0 44	13 0	16 27	0 27	0 49	6 50		n.a.
T 12	4 50	3 6	1 2	12 23	0 20	19 5	0 47	19 26	1 18	14 56	1 2	14 7	1 48	1 36	0 42	18 3	0 44	12 59	16 27	0 27	0 47	6 52		n.a.
W13	4 27	0s41	0n 4	12 36	0 6	18 55	0 42	19 35	1 18	14 52	1 2	14 5	1 48	1 35	0 42	18 3	0 44	12 58	16 27	0 27	0 46	6 53		n.a.
T 14	4 3	4 25	1 10	12 46	0s 8	18 44	0 37	19 45	1 18	14 47	1 2	14 2	1 48	1 34	0 42	18 2	0 44	12 58	16 27	0 27	0 45	6 55		n.a.
F 15	3 40	7 57	2 12	12 54	0 22	18 33	0 32	19 54	1 18	14 43	1 3	14 0	1 48	1 33	0 42	18 2	0 44	12 57	16 27	0 27	0 44	6 57		n.a.
S 16	3 17	11 10	3 8	12 59	0 35	18 22	0 27	20 3	1 18	14 38	1 3	13 58	1 49	1 32	0 42	18 1	0 44	12 56	16 27	0 28	0 42	6 59		n.a.
S 17	2 53	13 56	3 57	13 3	0 47	18 10	0 22	20 12	1 19	14 34	1 3	13 55	1 49	1 31	0 42	18 1	0 44	12 56	16 27	0 28	0 41	7 0		n.a.
M18	2 30	16 8	4 35	13 4	0 59	17 57	0 17	20 21	1 19	14 30	1 3	13 53	1 49	1 30	0 42	18 0	0 44	12 55	16 27	0 28	0 40	7 2		n.a.
T 19	2 6	17 39	5 3	13 4	1 11	17 44	0 12	20 30	1 19	14 25	1 3	13 50	1 49	1 29	0 42	18 0	0 44	12 55	16 27	0 28	0 38	7 4		n.a.
W20	1 43	18 22	5 16	13 1	1 21	17 30	0 8	20 39	1 19	14 21	1 3	13 48	1 49	1 28	0 42	17 59	0 44	12 54	16 27	0 28	0 37	7 5		n.a.
T 21	1 19	18 12	5 15	12 56	1 31	17 16	0 3	20 48	1 19	14 16	1 3	13 46	1 49	1 27	0 42	17 59	0 44	12 53	16 27	0 28	0 36	7 7		n.a.
F 22	0 56	17 4	4 58	12 49	1 40	17 1	0s 2	20 56	1 19	14 12	1 4	13 43	1 49	1 26	0 42	17 58	0 44	12 53	16 26	0 28	0 35	7 9		n.a.
S 23	0 33	14 57	4 24	12 40	1 49	16 46	0 6	21 5	1 19	14 7	1 4	13 41	1 49	1 25	0 42	17 58	0 44	12 52	16 26	0 28	0 33	7 11		n.a.
S 24	0 9	11 55	3 34	12 29	1 57	16 31	0 10	21 13	1 19	14 3	1 4	13 39	1 50	1 24	0 42	17 57	0 44	12 52	16 26	0 28	0 32	7 12		n.a.
M25	0n14	8 4	2 29	12 16	2 4	16 15	0 15	21 21	1 19	13 59	1 4	13 37	1 50	1 23	0 42	17 57	0 44	12 51	16 26	0 28	0 31	7 14		n.a.
T 26	0 38	3 39	1 12	12 1	2 11	15 58	0 19	21 29	1 20	13 54	1 4	13 34	1 50	1 22	0 42	17 57	0 44	12 50	16 26	0 28	0 29	7 16		n.a.
W27	1 1	1n 5	0s11	11 44	2 17	15 41	0 23	21 37	1 20	13 50	1 4	13 32	1 50	1 21	0 42	17 56	0 44	12 50	16 26	0 28	0 28	7 18		n.a.
T 28	1 25	5 48	1 34	11 26	2 23	15 24	0 27	21 45	1 20	13 46	1 4	13 30	1 50	1 20	0 42	17 56	0 44	12 49	16 26	0 28	0 27	7 19		n.a.
F 29	1 48	10 6	2 50	11 6	2 27	15 6	0 31	21 53	1 20	13 41	1 5	13 28	1 50	1 19	0 42	17 55	0 44	12 49	16 26	0 28	0 26	7 21		n.a.
S 30	2 11	13 43	3 53	10 44	2 32	14 48	0 35	22 0	1 20	13 37	1 5	13 25	1 50	1 18	0 42	17 55	0 45	12 48	16 26	0 28	0 24	7 23		n.a.
S 31	2n35	16n23	4s40	10s20	2s35	14s29	0s39	22n 8	1n20	13s33	1s 5	13s23	1s51	1s17	0n42	17s54	0s45	12s48	16s26	0s28	0s23	7s24		n.a.

Julian Day Number = 1675460.5, Delta T = 03h18m17s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'13, Lahiri = - 5°41'12 Julian Calendar 1 March 126 BCE == Greg. Calendar 26 Feb. 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

APRIL 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 22 36	7♈23'30	17♊ 3	11♓ 6	24♒31	2♊44	27♒34	29♒55	4°R45	12♒42	5♈37	1°R 8	0♎54	23♎40	n.a.	M 1
T 2	12 26 32	8°21'36	0♋53	12°22	25°39	3°20	27°46	0♓ 2	4♎42	12°43	5°39	1♎ 8	0°51	23°46	n.a.	T 2
W 3	12 30 29	9°19'40	14°19	13°39	26°47	3°56	27°59	0° 8	4°39	12°45	5°40	1°D 8	0°48	23°53	n.a.	W 3
T 4	12 34 25	10°17'42	27°22	14°59	27°54	4°32	28°11	0°14	4°37	12°46	5°41	1° 8	0°45	24° 0	n.a.	T 4
F 5	12 38 22	11°15'42	10♌ 5	16°22	29° 2	5° 8	28°24	0°21	4°34	12°47	5°43	1° 9	0°42	24° 6	n.a.	F 5
S 6	12 42 18	12°13'41	22°32	17°46	0♓10	5°44	28°36	0°27	4°32	12°49	5°44	1°10	0°38	24°13	n.a.	S 6
S 7	12 46 15	13°11'37	4♍46	19°12	1°19	6°20	28°49	0°33	4°29	12°50	5°46	1°11	0°35	24°20	n.a.	S 7
M 8	12 50 11	14° 9'31	16°50	20°41	2°27	6°56	29° 1	0°39	4°27	12°51	5°47	1°12	0°32	24°26	n.a.	M 8
T 9	12 54 8	15° 7'24	28°46	22°11	3°35	7°32	29°13	0°45	4°24	12°53	5°48	1°R12	0°29	24°33	n.a.	T 9
W10	12 58 5	16° 5'15	10♎38	23°44	4°44	8° 8	29°25	0°51	4°22	12°54	5°50	1°12	0°26	24°40	n.a.	W10
T 11	13 2 1	17° 3'04	22°27	25°19	5°52	8°44	29°37	0°57	4°19	12°55	5°51	1°11	0°22	24°46	n.a.	T 11
F 12	13 5 58	18° 0'52	4♏15	26°56	7° 1	9°20	29°49	1° 3	4°17	12°56	5°52	1° 9	0°19	24°53	n.a.	F 12
S 13	13 9 54	18°58'38	16° 6	28°34	8°10	9°56	0♓ 1	1° 9	4°15	12°58	5°54	1° 7	0°16	25° 0	n.a.	S 13
S 14	13 13 51	19°56'23	28° 1	0♈15	9°18	10°32	0°13	1°15	4°12	12°59	5°55	1° 4	0°13	25° 6	n.a.	S 14
M15	13 17 47	20°54'07	10♐ 3	1°58	10°27	11° 8	0°24	1°21	4°10	13° 0	5°56	1° 1	0°10	25°13	n.a.	M15
T 16	13 21 44	21°51'49	22°14	3°43	11°36	11°44	0°36	1°26	4° 7	13° 1	5°58	0°58	0° 7	25°20	n.a.	T 16
W17	13 25 40	22°49'30	4♑38	5°30	12°45	12°20	0°47	1°32	4° 5	13° 2	5°59	0°56	0° 3	25°26	n.a.	W17
T 18	13 29 37	23°47'10	17°19	7°19	13°55	12°57	0°59	1°38	4° 3	13° 3	6° 0	0°55	0° 0	25°33	n.a.	T 18
F 19	13 33 34	24°44'49	0♒20	9°10	15° 4	13°33	1°10	1°43	4° 0	13° 4	6° 2	0°D55	29♍57	25°40	n.a.	F 19
S 20	13 37 30	25°42'26	13°44	11° 3	16°13	14° 9	1°21	1°49	3°58	13° 5	6° 3	0°56	29°54	25°46	n.a.	S 20
S 21	13 41 27	26°40'03	27°33	12°58	17°23	14°45	1°32	1°54	3°56	13° 6	6° 4	0°57	29°51	25°53	n.a.	S 21
M22	13 45 23	27°37'38	11♓47	14°55	18°32	15°22	1°43	1°59	3°53	13° 7	6° 6	0°59	29°48	26° 0	n.a.	M22
T 23	13 49 20	28°35'13	26°26	16°54	19°41	15°58	1°54	2° 5	3°51	13° 8	6° 7	0°R59	29°44	26° 6	n.a.	T 23
W24	13 53 16	29°32'46	11♈23	18°55	20°51	16°34	2° 5	2°10	3°49	13° 9	6° 8	0°59	29°41	26°13	n.a.	W24
T 25	13 57 13	0♉30'18	26°34	20°57	22° 1	17°10	2°16	2°15	3°47	13° 9	6° 9	0°58	29°38	26°20	n.a.	T 25
F 26	14 1 9	1°27'49	11♉47	23° 1	23°10	17°47	2°26	2°20	3°44	13°10	6°11	0°55	29°35	26°26	n.a.	F 26
S 27	14 5 6	2°25'19	26°53	25° 7	24°20	18°23	2°37	2°25	3°42	13°11	6°12	0°50	29°32	26°33	n.a.	S 27
S 28	14 9 3	3°22'48	11♊43	27°15	25°30	19° 0	2°47	2°30	3°40	13°12	6°13	0°46	29°28	26°40	n.a.	S 28
M29	14 12 59	4°20'15	26° 9	29°23	26°40	19°36	2°58	2°35	3°38	13°12	6°15	0°42	29°25	26°46	n.a.	M29
T 30	14 16 56	5♉17'41	10♋ 9	1♉33	27♓50	20♊13	3♓ 8	2♓39	3♎36	13♒13	6♈16	0♎38	29♍22	26♎53	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	2n58	17n57	5s 8	9s55	2s38	14s10	0s42	22n15	1n20	13s28	1s 5	13s21	1s51	1s16	0n42	17s54	0s45	12s47	16s26	0s27	0s22	7s26		n.a.
T 2	3 21	18 25	5 18	9 28	2 40	13 50	0 46	22 22	1 20	13 24	1 5	13 19	1 51	1 15	0 42	17 54	0 45	12 47	16 26	0 27	0 21	7 28		n.a.
W 3	3 44	17 48	5 9	8 59	2 42	13 30	0 49	22 29	1 20	13 20	1 5	13 17	1 51	1 14	0 42	17 53	0 45	12 46	16 26	0 27	0 19	7 30		n.a.
T 4	4 7	16 16	4 45	8 29	2 43	13 10	0 53	22 36	1 20	13 16	1 6	13 15	1 51	1 13	0 42	17 53	0 45	12 45	16 26	0 27	0 18	7 31		n.a.
F 5	4 30	13 57	4 7	7 57	2 44	12 49	0 56	22 42	1 20	13 11	1 6	13 12	1 51	1 12	0 42	17 53	0 45	12 45	16 26	0 28	0 17	7 33		n.a.
S 6	4 53	11 2	3 19	7 24	2 44	12 28	0 59	22 49	1 20	13 7	1 6	13 10	1 52	1 11	0 42	17 52	0 45	12 44	16 26	0 28	0 15	7 35		n.a.
S 7	5 16	7 41	2 22	6 49	2 43	12 6	1 3	22 55	1 20	13 3	1 6	13 8	1 52	1 10	0 42	17 52	0 45	12 44	16 26	0 28	0 14	7 36		n.a.
M 8	5 39	4 3	1 19	6 12	2 42	11 44	1 6	23 2	1 20	12 59	1 6	13 6	1 52	1 9	0 42	17 51	0 45	12 43	16 26	0 29	0 13	7 38		n.a.
T 9	6 1	0 17	0 14	5 35	2 40	11 22	1 9	23 8	1 20	12 55	1 7	13 4	1 52	1 8	0 42	17 51	0 45	12 43	16 26	0 29	0 12	7 40		n.a.
W10	6 24	3s27	0n52	4 55	2 38	10 59	1 11	23 14	1 20	12 51	1 7	13 2	1 52	1 7	0 42	17 51	0 45	12 42	16 26	0 29	0 10	7 41		n.a.
T 11	6 46	7 3	1 55	4 15	2 35	10 37	1 14	23 20	1 20	12 47	1 7	13 0	1 52	1 6	0 42	17 50	0 45	12 42	16 26	0 29	0 9	7 43		n.a.
F 12	7 9	10 22	2 53	3 32	2 31	10 13	1 17	23 25	1 20	12 43	1 7	12 58	1 53	1 5	0 42	17 50	0 45	12 41	16 26	0 28	0 8	7 45		n.a.
S 13	7 31	13 17	3 43	2 49	2 27	9 50	1 20	23 31	1 20	12 38	1 7	12 56	1 53	1 4	0 42	17 50	0 45	12 41	16 26	0 27	0 6	7 47		n.a.
S 14	7 53	15 38	4 25	2 4	2 22	9 26	1 22	23 36	1 20	12 34	1 8	12 54	1 53	1 3	0 42	17 50	0 45	12 40	16 27	0 26	0 5	7 48		n.a.
M15	8 15	17 21	4 55	1 18	2 17	9 2	1 24	23 41	1 20	12 30	1 8	12 53	1 53	1 2	0 42	17 49	0 45	12 40	16 27	0 24	0 4	7 50		n.a.
T 16	8 37	18 18	5 12	0 31	2 11	8 37	1 27	23 46	1 20	12 27	1 8	12 51	1 53	1 1	0 42	17 49	0 45	12 39	16 27	0 23	0 3	7 52		n.a.
W17	8 58	18 23	5 15	0n18	2 5	8 13	1 29	23 51	1 20	12 23	1 8	12 49	1 54	1 0	0 42	17 49	0 45	12 39	16 27	0 23	0 1	7 53		n.a.
T 18	9 20	17 34	5 3	1 8	1 58	7 48	1 31	23 56	1 20	12 19	1 8	12 47	1 54	0 59	0 42	17 48	0 45	12 39	16 27	0 22	0 0	7 55		n.a.
F 19	9 41	15 50	4 35	1 58	1 51	7 23	1 33	24 1	1 20	12 15	1 9	12 45	1 54	0 58	0 42	17 48	0 45	12 38	16 27	0 22	0n 1	7 57		n.a.
S 20	10 3	13 12	3 52	2 50	1 43	6 57	1 35	24 5	1 20	12 11	1 9	12 43	1 54	0 58	0 42	17 48	0 45	12 38	16 27	0 22	0 2	7 58		n.a.
S 21	10 24	9 45	2 54	3 43	1 35	6 32	1 37	24 9	1 20	12 7	1 9	12 42	1 54	0 57	0 42	17 48	0 45	12 37	16 27	0 23	0 4	8 0		n.a.
M22	10 45	5 37	1 44	4 37	1 27	6 6	1 39	24 14	1 20	12 3	1 9	12 40	1 55	0 56	0 41	17 47	0 45	12 37	16 27	0 24	0 5	8 2		n.a.
T 23	11 6	1 3	0 25	5 31	1 18	5 40	1 40	24 17	1 20	12 0	1 9	12 38	1 55	0 55	0 41	17 47	0 45	12 36	16 27	0 24	0 6	8 4		n.a.
W24	11 26	3n41	0s57	6 26	1 8	5 13	1 42	24 21	1 20	11 56	1 10	12 36	1 55	0 54	0 41	17 47	0 45	12 36	16 27	0 24	0 8	8 5		n.a.
T 25	11 47	8 15	2 16	7 22	0 59	4 47	1 43	24 25	1 20	11 52	1 10	12 35	1 55	0 53	0 41	17 47	0 45	12 36	16 28	0 23	0 9	8 7		n.a.
F 26	12 7	12 17	3 25	8 18	0 49	4 20	1 45	24 28	1 20	11 48	1 10	12 33	1 55	0 52	0 41	17 47	0 45	12 35	16 28	0 22	0 10	8 9		n.a.
S 27	12 27	15 28	4 20	9 14	0 38	3 54	1 46	24 32	1 20	11 45	1 10	12 32	1 56	0 51	0 41	17 46	0 45	12 35	16 28	0 20	0 11	8 10		n.a.
S 28	12 47	17 34	4 56	10 10	0 28	3 27	1 47	24 35	1 20	11 41	1 10	12 30	1 56	0 51	0 41	17 46	0 45	12 35	16 28	0 18	0 13	8 12		n.a.
M29	13 7	18 28	5 12	11 7	0 17	3 0	1 48	24 38	1 20	11 38	1 11	12 28	1 56	0 50	0 41	17 46	0 46	12 34	16 28	0 17	0 14	8 14		n.a.
T 30	13n26	18n12	5s 8	12n 2	0s 7	2s32	1s49	24n40	1n20	11s34	1s11	12s27	1s56	0s49	0n41	17s46	0s46	12s34	16s28	0s15	0n15	8s15		n.a.

Julian Day Number = 1675491.5, Delta T = 03h18m16s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'08, Lahiri = - 5°41'08 Julian Calendar 1 Apr. 126 BCE == Greg. Calendar 29 March 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

MAY 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 20 52	6♉15'05	23♋40	3♉44	29♓ 0	20♊49	3♓18	2♓44	3°R34	13♒14	6♈17	0°R36	29♍19	27♎ 0	n.a.	W 1
T 2	14 24 49	7°12'29	6♌44	5°55	0♈10	21°26	3°28	2°49	3♎32	13°14	6°18	0°D35	29°16	27° 6	n.a.	T 2
F 3	14 28 45	8° 9'50	19°25	8° 7	1°20	22° 2	3°38	2°53	3°30	13°15	6°19	0♎36	29°13	27°13	n.a.	F 3
S 4	14 32 42	9° 7'11	1♍46	10°18	2°30	22°39	3°48	2°57	3°28	13°16	6°21	0°37	29° 9	27°20	n.a.	S 4
S 5	14 36 38	10° 4'30	13°53	12°30	3°40	23°15	3°57	3° 2	3°26	13°16	6°22	0°39	29° 6	27°26	n.a.	S 5
M 6	14 40 35	11° 1'49	25°50	14°41	4°51	23°52	4° 7	3° 6	3°24	13°16	6°23	0°R40	29° 3	27°33	n.a.	M 6
T 7	14 44 32	11°59'06	7♎40	16°52	6° 1	24°28	4°16	3°10	3°23	13°17	6°24	0°39	29° 0	27°40	n.a.	T 7
W 8	14 48 28	12°56'22	19°28	19° 1	7°11	25° 5	4°25	3°14	3°21	13°17	6°25	0°38	28°57	27°46	n.a.	W 8
T 9	14 52 25	13°53'37	1♏17	21°10	8°22	25°41	4°35	3°19	3°19	13°18	6°26	0°34	28°54	27°53	n.a.	T 9
F 10	14 56 21	14°50'52	13° 8	23°17	9°32	26°18	4°44	3°22	3°17	13°18	6°28	0°28	28°50	28° 0	n.a.	F 10
S 11	15 0 18	15°48'05	25° 4	25°22	10°43	26°55	4°52	3°26	3°16	13°18	6°29	0°21	28°47	28° 6	n.a.	S 11
S 12	15 4 14	16°45'18	7♐ 7	27°26	11°54	27°31	5° 1	3°30	3°14	13°19	6°30	0°12	28°44	28°13	n.a.	S 12
M13	15 8 11	17°42'31	19°18	29°28	13° 4	28° 8	5°10	3°34	3°13	13°19	6°31	0° 4	28°41	28°20	n.a.	M13
T 14	15 12 7	18°39'43	1♑38	1♊28	14°15	28°45	5°18	3°37	3°11	13°19	6°32	29♍56	28°38	28°26	n.a.	T 14
W15	15 16 4	19°36'54	14°10	3°26	15°26	29°21	5°27	3°41	3°10	13°19	6°33	29°49	28°34	28°33	n.a.	W15
T 16	15 20 1	20°34'05	26°55	5°21	16°36	29°58	5°35	3°45	3° 8	13°19	6°34	29°45	28°31	28°40	n.a.	T 16
F 17	15 23 57	21°31'16	9♒56	7°15	17°47	0♋35	5°43	3°48	3° 7	13°20	6°35	29°42	28°28	28°46	n.a.	F 17
S 18	15 27 54	22°28'26	23°16	9° 6	18°58	1°12	5°51	3°51	3° 5	13°20	6°36	29°D42	28°25	28°53	n.a.	S 18
S 19	15 31 50	23°25'37	6♓56	10°55	20° 9	1°49	5°59	3°54	3° 4	13°20	6°37	29°42	28°22	29° 0	n.a.	S 19
M20	15 35 47	24°22'47	20°59	12°41	21°20	2°25	6° 7	3°57	3° 3	13°R20	6°38	29°43	28°19	29° 6	n.a.	M20
T 21	15 39 43	25°19'56	5♈23	14°25	22°31	3° 2	6°14	4° 0	3° 1	13°20	6°39	29°R43	28°15	29°13	n.a.	T 21
W22	15 43 40	26°17'06	20° 7	16° 7	23°42	3°39	6°22	4° 3	3° 0	13°20	6°40	29°42	28°12	29°20	n.a.	W22
T 23	15 47 36	27°14'16	5♉ 6	17°46	24°53	4°16	6°29	4° 6	2°59	13°20	6°41	29°38	28° 9	29°26	n.a.	T 23
F 24	15 51 33	28°11'25	20°12	19°23	26° 5	4°53	6°36	4° 9	2°58	13°20	6°42	29°32	28° 6	29°33	n.a.	F 24
S 25	15 55 30	29° 8'34	5♊15	20°58	27°16	5°30	6°43	4°12	2°57	13°19	6°43	29°24	28° 3	29°40	n.a.	S 25
S 26	15 59 26	0♊ 5'43	20° 6	22°30	28°27	6° 7	6°50	4°14	2°56	13°19	6°44	29°15	27°59	29°46	n.a.	S 26
M27	16 3 23	1° 2'52	4♋37	24° 0	29°38	6°44	6°56	4°17	2°55	13°19	6°45	29° 6	27°56	29°53	n.a.	M27
T 28	16 7 19	2° 0'00	18°42	25°27	0♉50	7°21	7° 3	4°19	2°54	13°19	6°46	28°58	27°53	29°59	n.a.	T 28
W29	16 11 16	2°57'08	2♌18	26°52	2° 1	7°58	7° 9	4°21	2°53	13°18	6°46	28°52	27°50	0♏ 6	n.a.	W29
T 30	16 15 12	3°54'15	15°26	28°14	3°13	8°35	7°15	4°23	2°52	13°18	6°47	28°48	27°47	0°13	n.a.	T 30
F 31	16 19 9	4♊51'22	28♌ 9	29♊34	4♉24	9♋12	7♓21	4♓25	2♎52	13♒18	6♈48	28♍47	27♍44	0♏20	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	13n45	16n53	4s48	12n58	0n 4	2s 5	1s50	24n43	1n20	11s31	1s11	12s25	1s56	0s48	0n41	17s46	0s46	12s33	16s28	0s14	0n17	8s17			n.a.
T 2	14 4	14 43	4 13	13 52	0 14	1 38	1 51	24 46	1 20	11 27	1 11	12 24	1 57	0 47	0 41	17 46	0 46	12 33	16 28	0 14	0 18	8 19			n.a.
F 3	14 23	11 54	3 26	14 46	0 25	1 10	1 52	24 48	1 20	11 24	1 12	12 22	1 57	0 47	0 41	17 45	0 46	12 33	16 29	0 14	0 19	8 20			n.a.
S 4	14 42	8 37	2 31	15 38	0 35	0 43	1 52	24 50	1 20	11 21	1 12	12 21	1 57	0 46	0 41	17 45	0 46	12 32	16 29	0 15	0 20	8 22			n.a.
S 5	15 0	5 1	1 30	16 28	0 45	0 15	1 53	24 52	1 20	11 17	1 12	12 20	1 57	0 45	0 41	17 45	0 46	12 32	16 29	0 16	0 22	8 24			n.a.
M 6	15 18	1 16	0 26	17 17	0 54	0n13	1 53	24 54	1 20	11 14	1 12	12 18	1 58	0 44	0 41	17 45	0 46	12 32	16 29	0 16	0 23	8 25			n.a.
T 7	15 36	2s30	0n38	18 5	1 4	0 41	1 54	24 55	1 20	11 11	1 13	12 17	1 58	0 44	0 41	17 45	0 46	12 32	16 29	0 16	0 24	8 27			n.a.
W 8	15 54	6 9	1 40	18 50	1 12	1 8	1 54	24 57	1 20	11 8	1 13	12 16	1 58	0 43	0 41	17 45	0 46	12 31	16 30	0 15	0 25	8 29			n.a.
T 9	16 11	9 35	2 38	19 33	1 20	1 36	1 54	24 58	1 20	11 4	1 13	12 14	1 58	0 42	0 41	17 45	0 46	12 31	16 30	0 14	0 27	8 30			n.a.
F 10	16 28	12 38	3 30	20 13	1 28	2 4	1 54	24 59	1 20	11 1	1 13	12 13	1 59	0 42	0 41	17 45	0 46	12 31	16 30	0 11	0 28	8 32			n.a.
S 11	16 45	15 10	4 12	20 51	1 35	2 32	1 54	25 0	1 20	10 58	1 14	12 12	1 59	0 41	0 41	17 45	0 46	12 30	16 30	0 8	0 29	8 34			n.a.
S 12	17 2	17 5	4 43	21 27	1 41	3 0	1 54	25 0	1 19	10 55	1 14	12 11	1 59	0 41	0 41	17 45	0 46	12 30	16 30	0 5	0 31	8 35			n.a.
M13	17 18	18 15	5 2	22 0	1 47	3 28	1 54	25 1	1 19	10 52	1 14	12 10	1 59	0 40	0 41	17 45	0 46	12 30	16 30	0 2	0 32	8 37			n.a.
T 14	17 34	18 35	5 7	22 30	1 52	3 56	1 54	25 1	1 19	10 49	1 14	12 9	2 0	0 39	0 41	17 45	0 46	12 30	16 31	0n 2	0 33	8 39			n.a.
W15	17 50	18 0	4 58	22 58	1 56	4 24	1 54	25 2	1 19	10 46	1 15	12 7	2 0	0 39	0 41	17 45	0 46	12 30	16 31	0 4	0 34	8 40			n.a.
T 16	18 6	16 32	4 34	23 23	1 59	4 51	1 53	25 2	1 19	10 44	1 15	12 6	2 0	0 38	0 41	17 45	0 46	12 29	16 31	0 6	0 36	8 42			n.a.
F 17	18 21	14 11	3 55	23 46	2 2	5 19	1 53	25 1	1 19	10 41	1 15	12 5	2 0	0 38	0 41	17 45	0 46	12 29	16 31	0 7	0 37	8 44			n.a.
S 18	18 36	11 2	3 3	24 6	2 4	5 47	1 52	25 1	1 19	10 38	1 16	12 4	2 1	0 37	0 41	17 45	0 46	12 29	16 32	0 7	0 38	8 45			n.a.
S 19	18 50	7 13	1 59	24 24	2 5	6 14	1 52	25 1	1 19	10 35	1 16	12 4	2 1	0 37	0 41	17 45	0 46	12 29	16 32	0 7	0 40	8 47			n.a.
M20	19 5	2 54	0 47	24 39	2 6	6 42	1 51	25 0	1 19	10 33	1 16	12 3	2 1	0 36	0 41	17 45	0 46	12 29	16 32	0 7	0 41	8 49			n.a.
T 21	19 19	1n42	0s30	24 52	2 6	7 9	1 50	24 59	1 19	10 30	1 16	12 2	2 1	0 36	0 41	17 45	0 46	12 28	16 32	0 7	0 42	8 50			n.a.
W22	19 32	6 18	1 47	25 3	2 5	7 37	1 49	24 58	1 19	10 28	1 17	12 1	2 2	0 35	0 41	17 45	0 46	12 28	16 32	0 7	0 43	8 52			n.a.
T 23	19 46	10 35	2 58	25 11	2 4	8 4	1 49	24 57	1 18	10 25	1 17	12 0	2 2	0 35	0 41	17 45	0 46	12 28	16 33	0 9	0 45	8 54			n.a.
F 24	19 59	14 12	3 56	25 18	2 2	8 31	1 48	24 55	1 18	10 23	1 17	11 59	2 2	0 34	0 41	17 45	0 46	12 28	16 33	0 11	0 46	8 55			n.a.
S 25	20 11	16 51	4 38	25 22	1 59	8 58	1 46	24 54	1 18	10 21	1 17	11 59	2 2	0 34	0 41	17 45	0 46	12 28	16 33	0 15	0 47	8 57			n.a.
S 26	20 24	18 20	5 1	25 25	1 55	9 24	1 45	24 52	1 18	10 18	1 18	11 58	2 3	0 34	0 40	17 45	0 47	12 28	16 33	0 18	0 48	8 59			n.a.
M27	20 36	18 35	5 3	25 25	1 51	9 51	1 44	24 50	1 18	10 16	1 18	11 57	2 3	0 33	0 40	17 45	0 47	12 28	16 34	0 22	0 50	9 0			n.a.
T 28	20 48	17 39	4 47	25 24	1 46	10 17	1 43	24 48	1 18	10 14	1 18	11 57	2 3	0 33	0 40	17 45	0 47	12 27	16 34	0 25	0 51	9 2			n.a.
W29	20 59	15 44	4 15	25 21	1 41	10 43	1 42	24 46	1 18	10 12	1 19	11 56	2 3	0 33	0 40	17 45	0 47	12 27	16 34	0 27	0 52	9 4			n.a.
T 30	21 10	13 3	3 30	25 17	1 35	11 9	1 40	24 43	1 18	10 10	1 19	11 55	2 4	0 32	0 40	17 46	0 47	12 27	16 35	0 29	0 54	9 5			n.a.
F 31	21n21	9n49	2s36	25n11	1n28	11n35	1s39	24n40	1n17	10s 8	1s19	11s55	2s 4	0s32	0n40	17s46	0s47	12s27	16s35	0n29	0n55	9s 7			n.a.

Julian Day Number = 1675521.5, Delta T = 03h18m15s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'04, Lahiri = - 5°41'04 Julian Calendar 1 May 126 BCE == Greg. Calendar 28 Apr. 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

JUNE 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 23 5	5♊48'29	10♍30	0♋51	5♉36	9♋49	7♓27	4♓27	2°R51	13°R17	6♈49	28°D47	27♍40	0♏26	n.a.	S 1
S 2	16 27 2	6°45'35	22°36	2° 6	6°47	10°26	7°33	4°29	2♎50	13♒17	6°50	28°R47	27°37	0°33	n.a.	S 2
M 3	16 30 59	7°42'41	4♎30	3°17	7°59	11° 3	7°39	4°31	2°50	13°17	6°50	28♍47	27°34	0°40	n.a.	M 3
T 4	16 34 55	8°39'47	16°19	4°26	9°10	11°40	7°44	4°33	2°49	13°16	6°51	28°46	27°31	0°46	n.a.	T 4
W 5	16 38 52	9°36'53	28° 7	5°33	10°22	12°17	7°49	4°34	2°48	13°16	6°52	28°42	27°28	0°53	n.a.	W 5
T 6	16 42 48	10°33'58	9♏58	6°36	11°34	12°54	7°54	4°36	2°48	13°15	6°53	28°36	27°25	1° 0	n.a.	T 6
F 7	16 46 45	11°31'04	21°54	7°36	12°46	13°32	7°59	4°37	2°48	13°15	6°53	28°27	27°21	1° 6	n.a.	F 7
S 8	16 50 41	12°28'10	3♐59	8°33	13°57	14° 9	8° 4	4°38	2°47	13°14	6°54	28°16	27°18	1°13	n.a.	S 8
S 9	16 54 38	13°25'16	16°13	9°27	15° 9	14°46	8° 8	4°40	2°47	13°13	6°55	28° 4	27°15	1°20	n.a.	S 9
M10	16 58 35	14°22'22	28°37	10°17	16°21	15°23	8°13	4°41	2°47	13°13	6°55	27°51	27°12	1°26	n.a.	M10
T 11	17 2 31	15°19'29	11♑12	11° 4	17°33	16° 1	8°17	4°42	2°46	13°12	6°56	27°39	27° 9	1°33	n.a.	T 11
W12	17 6 28	16°16'36	23°58	11°48	18°45	16°38	8°21	4°43	2°46	13°12	6°57	27°29	27° 5	1°40	n.a.	W12
T 13	17 10 24	17°13'43	6♒56	12°28	19°57	17°15	8°25	4°43	2°46	13°11	6°57	27°22	27° 2	1°46	n.a.	T 13
F 14	17 14 21	18°10'51	20° 7	13° 4	21° 9	17°53	8°28	4°44	2°46	13°10	6°58	27°17	26°59	1°53	n.a.	F 14
S 15	17 18 17	19° 8'00	3♓31	13°35	22°21	18°30	8°32	4°45	2°D46	13° 9	6°58	27°14	26°56	2° 0	n.a.	S 15
S 16	17 22 14	20° 5'09	17° 9	14° 3	23°33	19° 7	8°35	4°45	2°46	13° 8	6°59	27°14	26°53	2° 6	n.a.	S 16
M17	17 26 10	21° 2'20	1♈ 4	14°27	24°46	19°45	8°38	4°45	2°46	13° 8	6°59	27°14	26°50	2°13	n.a.	M17
T 18	17 30 7	21°59'31	15°16	14°46	25°58	20°22	8°41	4°46	2°46	13° 7	7° 0	27°13	26°46	2°20	n.a.	T 18
W19	17 34 4	22°56'42	29°42	15° 0	27°10	21° 0	8°44	4°46	2°47	13° 6	7° 0	27°11	26°43	2°26	n.a.	W19
T 20	17 38 0	23°53'55	14♉21	15°10	28°22	21°37	8°46	4°R46	2°47	13° 5	7° 1	27° 6	26°40	2°33	n.a.	T 20
F 21	17 41 57	24°51'09	29° 8	15°R15	29°35	22°15	8°49	4°46	2°47	13° 4	7° 1	26°58	26°37	2°40	n.a.	F 21
S 22	17 45 53	25°48'23	13♊54	15°15	0♊47	22°52	8°51	4°46	2°48	13° 3	7° 1	26°48	26°34	2°46	n.a.	S 22
S 23	17 49 50	26°45'38	28°32	15°10	2° 0	23°30	8°53	4°45	2°48	13° 2	7° 2	26°37	26°31	2°53	n.a.	S 23
M24	17 53 46	27°42'54	12♋54	15° 0	3°12	24° 7	8°54	4°45	2°48	13° 1	7° 2	26°25	26°27	3° 0	n.a.	M24
T 25	17 57 43	28°40'10	26°54	14°45	4°25	24°45	8°56	4°45	2°49	13° 0	7° 3	26°15	26°24	3° 6	n.a.	T 25
W26	18 1 39	29°37'27	10♌29	14°25	5°37	25°23	8°57	4°44	2°50	12°59	7° 3	26° 7	26°21	3°13	n.a.	W26
T 27	18 5 36	0♋34'45	23°37	14° 1	6°50	26° 0	8°59	4°43	2°50	12°58	7° 3	26° 2	26°18	3°20	n.a.	T 27
F 28	18 9 33	1°32'03	6♍21	13°32	8° 3	26°38	9° 0	4°43	2°51	12°57	7° 4	25°59	26°15	3°26	n.a.	F 28
S 29	18 13 29	2°29'22	18°44	12°59	9°15	27°16	9° 0	4°42	2°52	12°56	7° 4	25°58	26°11	3°33	n.a.	S 29
S 30	18 17 26	3♋26'41	0♎50	12♋23	10♊28	27♋53	9♓ 1	4♓41	2♎52	12♒54	7♈ 4	25♍58	26♍ 8	3♏40	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n31	6n14	1s36	25n 4	1n21	12n 1	1s37	24n38	1n17	10s 6	1s20	11s54	2s 4	0s32	0n40	17s46	0s47	12s27	16s35	0n29	0n56	9s 9		n.a.
S 2	21 41	2 28	0 33	24 55	1 13	12 26	1 36	24 35	1 17	10 4	1 20	11 54	2 5	0 32	0 40	17 46	0 47	12 27	16 35	0 29	0 57	9 10		n.a.
M 3	21 50	1s21	0n30	24 45	1 5	12 51	1 34	24 31	1 17	10 2	1 20	11 54	2 5	0 31	0 40	17 46	0 47	12 27	16 36	0 29	0 59	9 12		n.a.
T 4	22 0	5 4	1 32	24 34	0 56	13 15	1 32	24 28	1 17	10 0	1 20	11 53	2 5	0 31	0 40	17 46	0 47	12 27	16 36	0 30	1 0	9 13		n.a.
W 5	22 8	8 36	2 29	24 22	0 47	13 40	1 30	24 24	1 17	9 59	1 21	11 53	2 5	0 31	0 40	17 46	0 47	12 27	16 36	0 31	1 1	9 15		n.a.
T 6	22 17	11 48	3 20	24 9	0 37	14 4	1 29	24 21	1 17	9 57	1 21	11 53	2 6	0 31	0 40	17 47	0 47	12 27	16 36	0 34	1 2	9 17		n.a.
F 7	22 25	14 32	4 3	23 56	0 27	14 28	1 27	24 17	1 17	9 55	1 21	11 52	2 6	0 31	0 40	17 47	0 47	12 27	16 37	0 37	1 4	9 18		n.a.
S 8	22 33	16 41	4 35	23 41	0 16	14 51	1 25	24 13	1 16	9 54	1 22	11 52	2 6	0 31	0 40	17 47	0 47	12 27	16 37	0 42	1 5	9 20		n.a.
S 9	22 40	18 6	4 55	23 26	0 4	15 15	1 23	24 8	1 16	9 53	1 22	11 52	2 6	0 31	0 40	17 47	0 47	12 27	16 37	0 47	1 6	9 22		n.a.
M10	22 47	18 41	5 1	23 11	0s 8	15 37	1 21	24 4	1 16	9 51	1 22	11 52	2 7	0 30	0 40	17 47	0 47	12 27	16 38	0 52	1 8	9 23		n.a.
T 11	22 53	18 22	4 53	22 55	0 20	16 0	1 19	23 59	1 16	9 50	1 23	11 52	2 7	0 30	0 40	17 48	0 47	12 27	16 38	0 57	1 9	9 25		n.a.
W12	22 59	17 7	4 30	22 38	0 32	16 22	1 17	23 55	1 16	9 49	1 23	11 52	2 7	0 30	0 40	17 48	0 47	12 27	16 38	1 1	1 10	9 26		n.a.
T 13	23 5	14 59	3 53	22 22	0 46	16 44	1 15	23 50	1 16	9 48	1 23	11 52	2 8	0 30	0 40	17 48	0 47	12 27	16 39	1 4	1 11	9 28		n.a.
F 14	23 11	12 3	3 3	22 5	0 59	17 5	1 12	23 45	1 15	9 46	1 24	11 52	2 8	0 30	0 40	17 48	0 47	12 27	16 39	1 6	1 13	9 30		n.a.
S 15	23 15	8 26	2 2	21 48	1 13	17 26	1 10	23 39	1 15	9 45	1 24	11 52	2 8	0 30	0 40	17 49	0 47	12 27	16 39	1 7	1 14	9 31		n.a.
S 16	23 20	4 19	0 53	21 31	1 27	17 46	1 8	23 34	1 15	9 45	1 24	11 52	2 8	0 30	0 40	17 49	0 47	12 27	16 40	1 7	1 15	9 33		n.a.
M17	23 24	0n 7	0s20	21 15	1 41	18 7	1 6	23 28	1 15	9 44	1 25	11 52	2 9	0 31	0 40	17 49	0 47	12 27	16 40	1 7	1 17	9 35		n.a.
T 18	23 28	4 38	1 34	20 59	1 55	18 26	1 3	23 23	1 15	9 43	1 25	11 52	2 9	0 31	0 40	17 49	0 47	12 27	16 40	1 7	1 18	9 36		n.a.
W19	23 31	8 57	2 43	20 43	2 9	18 45	1 1	23 17	1 15	9 42	1 25	11 52	2 9	0 31	0 40	17 50	0 47	12 28	16 40	1 8	1 19	9 38		n.a.
T 20	23 34	12 48	3 42	20 27	2 24	19 4	0 59	23 10	1 14	9 41	1 26	11 52	2 9	0 31	0 39	17 50	0 47	12 28	16 41	1 10	1 20	9 39		n.a.
F 21	23 36	15 51	4 26	20 12	2 38	19 22	0 56	23 4	1 14	9 41	1 26	11 53	2 10	0 31	0 39	17 50	0 47	12 28	16 41	1 13	1 22	9 41		n.a.
S 22	23 38	17 52	4 53	19 58	2 52	19 40	0 54	22 58	1 14	9 40	1 26	11 53	2 10	0 31	0 39	17 51	0 47	12 28	16 41	1 17	1 23	9 43		n.a.
S 23	23 40	18 42	5 0	19 45	3 6	19 57	0 51	22 51	1 14	9 40	1 27	11 53	2 10	0 31	0 39	17 51	0 47	12 28	16 42	1 22	1 24	9 44		n.a.
M24	23 41	18 17	4 49	19 33	3 20	20 14	0 49	22 44	1 14	9 40	1 27	11 54	2 11	0 32	0 39	17 51	0 48	12 28	16 42	1 26	1 25	9 46		n.a.
T 25	23 42	16 46	4 19	19 21	3 33	20 30	0 46	22 37	1 13	9 39	1 27	11 54	2 11	0 32	0 39	17 52	0 48	12 28	16 42	1 30	1 27	9 48		n.a.
W26	23 42	14 21	3 36	19 11	3 45	20 46	0 44	22 30	1 13	9 39	1 28	11 55	2 11	0 32	0 39	17 52	0 48	12 29	16 43	1 34	1 28	9 49		n.a.
T 27	23 42	11 15	2 42	19 2	3 57	21 1	0 41	22 23	1 13	9 39	1 28	11 55	2 11	0 33	0 39	17 52	0 48	12 29	16 43	1 36	1 29	9 51		n.a.
F 28	23 42	7 42	1 42	18 55	4 7	21 16	0 39	22 15	1 13	9 39	1 28	11 56	2 12	0 33	0 39	17 53	0 48	12 29	16 43	1 37	1 31	9 52		n.a.
S 29	23 41	3 55	0 38	18 48	4 17	21 30	0 36	22 8	1 13	9 39	1 29	11 56	2 12	0 33	0 39	17 53	0 48	12 29	16 44	1 37	1 32	9 54		n.a.
S 30	23n40	0n 4	0n26	18n43	4s25	21n43	0s33	22n 0	1n12	9s39	1s29	11s57	2s12	0s33	0n39	17s53	0s48	12s29	16s44	1n37	1n33	9s56		n.a.

Julian Day Number = 1675552.5, Delta T = 03h18m14s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°48'00, Lahiri = - 5°41'00 Julian Calendar 1 June 126 BCE == Greg. Calendar 29 May 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

JULY 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 21 22	4♋24'01	12♎46	11°R43	11♊41	28♋31	9♓ 1	4°R40	2♎53	12°R53	7♈ 4	25°R57	26♍ 5	3♏46	n.a.	M 1
T 2	18 25 19	5°21'22	24°36	11♋ 1	12°54	29° 9	9° 2	4♓39	2°54	12♒52	7° 4	25♍56	26° 2	3°53	n.a.	T 2
W 3	18 29 15	6°18'43	6♏25	10°17	14° 6	29°47	9°R 2	4°37	2°55	12°51	7° 5	25°53	25°59	4° 0	n.a.	W 3
T 4	18 33 12	7°16'06	18°19	9°32	15°19	0♌24	9° 1	4°36	2°56	12°50	7° 5	25°47	25°56	4° 6	n.a.	T 4
F 5	18 37 8	8°13'29	0♐21	8°46	16°32	1° 2	9° 1	4°34	2°57	12°48	7° 5	25°39	25°52	4°13	n.a.	F 5
S 6	18 41 5	9°10'53	12°34	8° 0	17°45	1°40	9° 0	4°33	2°58	12°47	7° 5	25°28	25°49	4°20	n.a.	S 6
S 7	18 45 2	10° 8'18	25° 0	7°16	18°58	2°18	9° 0	4°31	2°59	12°46	7° 5	25°16	25°46	4°26	n.a.	S 7
M 8	18 48 58	11° 5'44	7♑40	6°34	20°11	2°56	8°59	4°30	3° 0	12°44	7° 5	25° 4	25°43	4°33	n.a.	M 8
T 9	18 52 55	12° 3'11	20°33	5°55	21°24	3°34	8°57	4°28	3° 2	12°43	7° 5	24°52	25°40	4°40	n.a.	T 9
W10	18 56 51	13° 0'40	3♒40	5°20	22°38	4°12	8°56	4°26	3° 3	12°42	7° 5	24°42	25°37	4°46	n.a.	W10
T 11	19 0 48	13°58'09	16°58	4°49	23°51	4°50	8°55	4°24	3° 4	12°40	7°R 5	24°35	25°33	4°53	n.a.	T 11
F 12	19 4 44	14°55'41	0♓26	4°24	25° 4	5°28	8°53	4°22	3° 6	12°39	7° 5	24°30	25°30	5° 0	n.a.	F 12
S 13	19 8 41	15°53'13	14° 5	4° 4	26°17	6° 6	8°51	4°19	3° 7	12°37	7° 5	24°28	25°27	5° 7	n.a.	S 13
S 14	19 12 37	16°50'47	27°53	3°50	27°31	6°44	8°49	4°17	3° 9	12°36	7° 5	24°D28	25°24	5°13	n.a.	S 14
M15	19 16 34	17°48'23	11♈50	3°43	28°44	7°22	8°46	4°15	3°10	12°35	7° 5	24°R28	25°21	5°20	n.a.	M15
T 16	19 20 31	18°46'00	25°55	3°D43	29°57	8° 0	8°44	4°12	3°12	12°33	7° 5	24°28	25°17	5°27	n.a.	T 16
W17	19 24 27	19°43'40	10♉ 9	3°49	1♋11	8°39	8°41	4°10	3°13	12°32	7° 5	24°26	25°14	5°33	n.a.	W17
T 18	19 28 24	20°41'21	24°29	4° 3	2°24	9°17	8°38	4° 7	3°15	12°30	7° 5	24°22	25°11	5°40	n.a.	T 18
F 19	19 32 20	21°39'03	8♊52	4°25	3°38	9°55	8°35	4° 4	3°17	12°29	7° 5	24°16	25° 8	5°47	n.a.	F 19
S 20	19 36 17	22°36'48	23°13	4°54	4°51	10°33	8°32	4° 1	3°19	12°27	7° 4	24° 8	25° 5	5°53	n.a.	S 20
S 21	19 40 13	23°34'34	7♋27	5°30	6° 5	11°12	8°28	3°58	3°20	12°26	7° 4	23°58	25° 2	6° 0	n.a.	S 21
M22	19 44 10	24°32'21	21°28	6°13	7°19	11°50	8°25	3°55	3°22	12°24	7° 4	23°49	24°58	6° 7	n.a.	M22
T 23	19 48 6	25°30'10	5♌12	7° 3	8°32	12°28	8°21	3°52	3°24	12°22	7° 4	23°40	24°55	6°13	n.a.	T 23
W24	19 52 3	26°28'01	18°35	8° 1	9°46	13° 7	8°17	3°49	3°26	12°21	7° 4	23°33	24°52	6°20	n.a.	W24
T 25	19 56 0	27°25'53	1♍37	9° 5	11° 0	13°45	8°12	3°46	3°28	12°19	7° 3	23°29	24°49	6°27	n.a.	T 25
F 26	19 59 56	28°23'46	14°17	10°15	12°14	14°24	8° 8	3°43	3°30	12°18	7° 3	23°26	24°46	6°33	n.a.	F 26
S 27	20 3 53	29°21'41	26°39	11°31	13°28	15° 2	8° 4	3°39	3°32	12°16	7° 3	23°D26	24°43	6°40	n.a.	S 27
S 28	20 7 49	0♌19'37	8♎46	12°53	14°41	15°41	7°59	3°36	3°34	12°15	7° 2	23°27	24°39	6°47	n.a.	S 28
M29	20 11 46	1°17'35	20°42	14°20	15°55	16°19	7°54	3°32	3°37	12°13	7° 2	23°28	24°36	6°53	n.a.	M29
T 30	20 15 42	2°15'34	2♏33	15°52	17° 9	16°58	7°49	3°29	3°39	12°11	7° 2	23°R28	24°33	7° 0	n.a.	T 30
W31	20 19 39	3♌13'35	14♏24	17♋29	18♋23	17♌36	7♓44	3♓25	3♎41	12♒10	7♈ 1	23♍28	24♍30	7♏ 7	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	23n38	3s45	1n28	18n40	4s32	21n56	0s31	21n52	1n12	9s39	1s29	11s58	2s12	0s34	0n39	17s54	0s48	12s30	16s44	1n37	1n34	9s57			n.a.
T 2	23 36	7 23	2 26	18 38	4 38	22 8	0 28	21 44	1 12	9 39	1 30	11 58	2 13	0 34	0 39	17 54	0 48	12 30	16 45	1 38	1 36	9 59			n.a.
W 3	23 33	10 43	3 17	18 37	4 42	22 20	0 26	21 36	1 12	9 40	1 30	11 59	2 13	0 35	0 39	17 54	0 48	12 30	16 45	1 39	1 37	10 0			n.a.
T 4	23 30	13 38	4 0	18 38	4 44	22 30	0 23	21 27	1 12	9 40	1 30	12 0	2 13	0 35	0 39	17 55	0 48	12 30	16 45	1 42	1 38	10 2			n.a.
F 5	23 27	16 0	4 33	18 41	4 44	22 41	0 20	21 19	1 11	9 40	1 31	12 0	2 14	0 36	0 39	17 55	0 48	12 31	16 46	1 45	1 39	10 4			n.a.
S 6	23 23	17 42	4 54	18 45	4 43	22 51	0 18	21 10	1 11	9 41	1 31	12 1	2 14	0 36	0 39	17 56	0 48	12 31	16 46	1 49	1 41	10 5			n.a.
S 7	23 19	18 36	5 1	18 51	4 40	23 0	0 15	21 1	1 11	9 42	1 31	12 2	2 14	0 37	0 39	17 56	0 48	12 31	16 46	1 54	1 42	10 7			n.a.
M 8	23 14	18 35	4 54	18 58	4 35	23 8	0 12	20 52	1 11	9 42	1 32	12 3	2 14	0 37	0 39	17 56	0 48	12 31	16 47	1 59	1 43	10 8			n.a.
T 9	23 9	17 38	4 32	19 6	4 29	23 16	0 10	20 43	1 11	9 43	1 32	12 4	2 15	0 38	0 39	17 57	0 48	12 32	16 47	2 4	1 45	10 10			n.a.
W10	23 4	15 44	3 55	19 16	4 20	23 23	0 7	20 34	1 10	9 44	1 32	12 5	2 15	0 38	0 39	17 57	0 48	12 32	16 47	2 8	1 46	10 12			n.a.
T 11	22 58	12 59	3 5	19 27	4 11	23 29	0 5	20 24	1 10	9 45	1 32	12 6	2 15	0 39	0 39	17 58	0 48	12 32	16 48	2 11	1 47	10 13			n.a.
F 12	22 52	9 31	2 4	19 39	3 59	23 35	0 2	20 15	1 10	9 46	1 33	12 7	2 15	0 39	0 39	17 58	0 48	12 32	16 48	2 13	1 48	10 15			n.a.
S 13	22 45	5 29	0 55	19 52	3 47	23 40	0n 1	20 5	1 10	9 47	1 33	12 8	2 16	0 40	0 39	17 59	0 48	12 33	16 48	2 13	1 50	10 16			n.a.
S 14	22 38	1 8	0s18	20 6	3 34	23 44	0 3	19 55	1 9	9 48	1 33	12 9	2 16	0 41	0 39	17 59	0 48	12 33	16 49	2 14	1 51	10 18			n.a.
M15	22 30	3n20	1 31	20 20	3 19	23 48	0 6	19 45	1 9	9 49	1 34	12 10	2 16	0 41	0 38	17 59	0 48	12 33	16 49	2 13	1 52	10 20			n.a.
T 16	22 23	7 39	2 39	20 35	3 4	23 51	0 8	19 35	1 9	9 50	1 34	12 11	2 16	0 42	0 38	18 0	0 48	12 34	16 49	2 13	1 53	10 21			n.a.
W17	22 14	11 34	3 38	20 51	2 48	23 53	0 11	19 24	1 9	9 52	1 34	12 12	2 17	0 43	0 38	18 0	0 48	12 34	16 50	2 14	1 55	10 23			n.a.
T 18	22 6	14 50	4 24	21 7	2 32	23 54	0 13	19 14	1 8	9 53	1 35	12 14	2 17	0 43	0 38	18 1	0 48	12 34	16 50	2 16	1 56	10 24			n.a.
F 19	21 57	17 12	4 53	21 22	2 16	23 55	0 16	19 3	1 8	9 54	1 35	12 15	2 17	0 44	0 38	18 1	0 48	12 35	16 50	2 18	1 57	10 26			n.a.
S 20	21 47	18 28	5 4	21 38	1 59	23 55	0 18	18 53	1 8	9 56	1 35	12 16	2 17	0 45	0 38	18 2	0 48	12 35	16 51	2 21	1 59	10 27			n.a.
S 21	21 37	18 34	4 56	21 53	1 42	23 55	0 21	18 42	1 8	9 58	1 36	12 17	2 17	0 46	0 38	18 2	0 48	12 36	16 51	2 25	2 0	10 29			n.a.
M22	21 27	17 32	4 30	22 8	1 26	23 53	0 23	18 31	1 7	9 59	1 36	12 19	2 18	0 46	0 38	18 3	0 48	12 36	16 51	2 29	2 1	10 31			n.a.
T 23	21 17	15 29	3 49	22 22	1 10	23 51	0 26	18 19	1 7	10 1	1 36	12 20	2 18	0 47	0 38	18 3	0 48	12 36	16 52	2 32	2 2	10 32			n.a.
W24	21 6	12 39	2 56	22 34	0 54	23 48	0 28	18 8	1 7	10 3	1 36	12 21	2 18	0 48	0 38	18 4	0 48	12 37	16 52	2 35	2 4	10 34			n.a.
T 25	20 54	9 14	1 54	22 46	0 38	23 45	0 30	17 57	1 7	10 5	1 37	12 23	2 18	0 49	0 38	18 4	0 48	12 37	16 52	2 37	2 5	10 35			n.a.
F 26	20 43	5 30	0 49	22 56	0 23	23 41	0 33	17 45	1 6	10 7	1 37	12 24	2 19	0 50	0 38	18 4	0 48	12 37	16 53	2 38	2 6	10 37			n.a.
S 27	20 31	1 37	0n17	23 4	0 8	23 36	0 35	17 34	1 6	10 8	1 37	12 26	2 19	0 51	0 38	18 5	0 48	12 38	16 53	2 38	2 8	10 38			n.a.
S 28	20 18	2s16	1 22	23 10	0n 5	23 30	0 37	17 22	1 6	10 11	1 38	12 27	2 19	0 51	0 38	18 5	0 48	12 38	16 53	2 38	2 9	10 40			n.a.
M29	20 6	5 59	2 21	23 14	0 18	23 24	0 39	17 10	1 6	10 13	1 38	12 29	2 19	0 52	0 38	18 6	0 48	12 39	16 53	2 37	2 10	10 42			n.a.
T 30	19 53	9 27	3 15	23 16	0 31	23 17	0 41	16 58	1 5	10 15	1 38	12 30	2 19	0 53	0 38	18 6	0 48	12 39	16 54	2 37	2 11	10 43			n.a.
W31	19n39	12s31	4n 0	23n15	0n42	23n 9	0n44	16n46	1n 5	10s17	1s38	12s32	2s20	0s54	0n38	18s 7	0s48	12s40	16s54	2n37	2n13	10s45			n.a.

Julian Day Number = 1675582.5, Delta T = 03h18m13s
Ecliptic obliquity = 23°42'27, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'56, Lahiri = - 5°40'56 Julian Calendar 1 July 126 BCE == Greg. Calendar 28 June 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

AUGUST 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 23 35	4♌11'37	26♏20	19♋ 9	19♋37	18♌15	7°R38	3°R21	3♎43	12°R 8	7°R 1	23°R25	24♍27	7♏13	n.a.	T 1
F 2	20 27 32	5° 9'40	8♐25	20°53	20°51	18°54	7♓33	3♓18	3°46	12♒ 6	7♈ 0	23♍20	24°23	7°20	n.a.	F 2
S 3	20 31 29	6° 7'45	20°44	22°39	22° 5	19°32	7°27	3°14	3°48	12° 5	7° 0	23°14	24°20	7°27	n.a.	S 3
S 4	20 35 25	7° 5'52	3♑19	24°28	23°20	20°11	7°21	3°10	3°51	12° 3	6°59	23° 7	24°17	7°33	n.a.	S 4
M 5	20 39 22	8° 4'01	16°11	26°20	24°34	20°50	7°15	3° 6	3°53	12° 2	6°59	22°59	24°14	7°40	n.a.	M 5
T 6	20 43 18	9° 2'11	29°22	28°12	25°48	21°29	7° 9	3° 2	3°56	12° 0	6°58	22°51	24°11	7°47	n.a.	T 6
W 7	20 47 15	10° 0'23	12♒49	0♌ 6	27° 2	22° 7	7° 3	2°58	3°58	11°58	6°58	22°45	24° 8	7°54	n.a.	W 7
T 8	20 51 11	10°58'37	26°31	2° 1	28°16	22°46	6°56	2°54	4° 1	11°57	6°57	22°40	24° 4	8° 0	n.a.	T 8
F 9	20 55 8	11°56'52	10♓24	3°57	29°31	23°25	6°50	2°49	4° 3	11°55	6°57	22°38	24° 1	8° 7	n.a.	F 9
S 10	20 59 4	12°55'10	24°26	5°52	0♌45	24° 4	6°43	2°45	4° 6	11°53	6°56	22°D37	23°58	8°14	n.a.	S 10
S 11	21 3 1	13°53'30	8♈34	7°48	1°59	24°43	6°36	2°41	4° 9	11°52	6°56	22°38	23°55	8°20	n.a.	S 11
M12	21 6 58	14°51'52	22°45	9°43	3°14	25°22	6°30	2°36	4°12	11°50	6°55	22°40	23°52	8°27	n.a.	M12
T 13	21 10 54	15°50'16	6♉57	11°38	4°28	26° 1	6°23	2°32	4°14	11°48	6°54	22°41	23°48	8°34	n.a.	T 13
W14	21 14 51	16°48'43	21° 7	13°33	5°43	26°40	6°15	2°28	4°17	11°47	6°54	22°R41	23°45	8°40	n.a.	W14
T 15	21 18 47	17°47'12	5♊15	15°27	6°57	27°19	6° 8	2°23	4°20	11°45	6°53	22°40	23°42	8°47	n.a.	T 15
F 16	21 22 44	18°45'44	19°18	17°20	8°12	27°58	6° 1	2°19	4°23	11°43	6°52	22°37	23°39	8°54	n.a.	F 16
S 17	21 26 40	19°44'17	3♋14	19°13	9°26	28°37	5°54	2°14	4°26	11°42	6°52	22°33	23°36	9° 0	n.a.	S 17
S 18	21 30 37	20°42'53	17° 1	21° 4	10°41	29°17	5°46	2°10	4°29	11°40	6°51	22°28	23°33	9° 7	n.a.	S 18
M19	21 34 33	21°41'31	0♌36	22°55	11°56	29°56	5°39	2° 5	4°32	11°39	6°50	22°23	23°29	9°14	n.a.	M19
T 20	21 38 30	22°40'11	13°56	24°44	13°10	0♍35	5°31	2° 1	4°35	11°37	6°49	22°19	23°26	9°20	n.a.	T 20
W21	21 42 27	23°38'53	27° 0	26°33	14°25	1°15	5°23	1°56	4°38	11°35	6°49	22°15	23°23	9°27	n.a.	W21
T 22	21 46 23	24°37'38	9♍48	28°21	15°40	1°54	5°15	1°51	4°41	11°34	6°48	22°13	23°20	9°34	n.a.	T 22
F 23	21 50 20	25°36'24	22°19	0♍ 7	16°55	2°33	5° 8	1°47	4°44	11°32	6°47	22°D13	23°17	9°40	n.a.	F 23
S 24	21 54 16	26°35'12	4♎36	1°53	18° 9	3°13	5° 0	1°42	4°47	11°31	6°46	22°13	23°14	9°47	n.a.	S 24
S 25	21 58 13	27°34'02	16°40	3°38	19°24	3°52	4°52	1°37	4°50	11°29	6°45	22°15	23°10	9°54	n.a.	S 25
M26	22 2 9	28°32'54	28°36	5°22	20°39	4°32	4°44	1°33	4°53	11°27	6°44	22°16	23° 7	10° 1	n.a.	M26
T 27	22 6 6	29°31'48	10♏27	7° 4	21°54	5°11	4°36	1°28	4°57	11°26	6°44	22°18	23° 4	10° 7	n.a.	T 27
W28	22 10 2	0♍30'43	22°17	8°46	23° 9	5°51	4°28	1°23	5° 0	11°24	6°43	22°19	23° 1	10°14	n.a.	W28
T 29	22 13 59	1°29'41	4♐13	10°27	24°24	6°30	4°20	1°18	5° 3	11°23	6°42	22°R19	22°58	10°21	n.a.	T 29
F 30	22 17 55	2°28'40	16°18	12° 7	25°39	7°10	4°12	1°14	5° 7	11°21	6°41	22°18	22°54	10°27	n.a.	F 30
S 31	22 21 52	3♍27'42	28♐37	13♍46	26♌53	7♍50	4♓ 4	1♓ 9	5♎10	11♒20	6♈40	22♍17	22♍51	10♏34	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	19n26	15s 6	4n35	23n11	0n53	23n 0	0n46	16n33	1n 5	10s19	1s39	12s33	2s20	0s55	0n38	18s 7	0s48	12s40	16s54	2n39	2n14	10s46			n.a.
F 2	19 11	17 3	4 58	23 5	1 2	22 51	0 48	16 21	1 4	10 22	1 39	12 35	2 20	0 56	0 38	18 8	0 48	12 40	16 55	2 40	2 15	10 48			n.a.
S 3	18 57	18 16	5 8	22 57	1 11	22 41	0 50	16 8	1 4	10 24	1 39	12 36	2 20	0 57	0 38	18 8	0 48	12 41	16 55	2 43	2 16	10 49			n.a.
S 4	18 42	18 37	5 3	22 45	1 18	22 31	0 52	15 56	1 4	10 26	1 39	12 38	2 20	0 58	0 38	18 9	0 48	12 41	16 55	2 46	2 18	10 51			n.a.
M 5	18 27	18 1	4 44	22 31	1 25	22 20	0 54	15 43	1 4	10 29	1 40	12 40	2 20	0 59	0 38	18 9	0 48	12 42	16 56	2 49	2 19	10 52			n.a.
T 6	18 12	16 28	4 8	22 14	1 31	22 8	0 55	15 30	1 3	10 31	1 40	12 41	2 21	1 0	0 38	18 10	0 49	12 42	16 56	2 52	2 20	10 54			n.a.
W 7	17 56	13 59	3 19	21 55	1 36	21 55	0 57	15 17	1 3	10 34	1 40	12 43	2 21	1 1	0 38	18 10	0 49	12 43	16 56	2 55	2 21	10 56			n.a.
T 8	17 40	10 40	2 17	21 33	1 40	21 42	0 59	15 4	1 3	10 37	1 40	12 45	2 21	1 2	0 38	18 11	0 49	12 43	16 56	2 56	2 23	10 57			n.a.
F 9	17 24	6 44	1 6	21 9	1 43	21 28	1 1	14 51	1 2	10 39	1 40	12 46	2 21	1 3	0 38	18 11	0 49	12 44	16 57	2 57	2 24	10 59			n.a.
S 10	17 7	2 23	0s10	20 43	1 46	21 14	1 2	14 37	1 2	10 42	1 41	12 48	2 21	1 4	0 38	18 12	0 49	12 44	16 57	2 58	2 25	11 0			n.a.
S 11	16 51	2n 7	1 26	20 15	1 47	20 59	1 4	14 24	1 2	10 45	1 41	12 50	2 21	1 6	0 38	18 12	0 49	12 45	16 57	2 57	2 27	11 2			n.a.
M12	16 33	6 31	2 37	19 45	1 48	20 43	1 6	14 10	1 1	10 47	1 41	12 51	2 21	1 7	0 37	18 13	0 49	12 45	16 57	2 57	2 28	11 3			n.a.
T 13	16 16	10 33	3 38	19 13	1 48	20 27	1 7	13 57	1 1	10 50	1 41	12 53	2 22	1 8	0 37	18 13	0 49	12 46	16 58	2 56	2 29	11 5			n.a.
W14	15 58	13 58	4 26	18 40	1 48	20 10	1 9	13 43	1 1	10 53	1 41	12 55	2 22	1 9	0 37	18 13	0 49	12 46	16 58	2 56	2 30	11 6			n.a.
T 15	15 40	16 32	4 58	18 5	1 47	19 52	1 10	13 29	1 1	10 56	1 42	12 57	2 22	1 10	0 37	18 14	0 49	12 47	16 58	2 57	2 32	11 8			n.a.
F 16	15 22	18 6	5 11	17 29	1 45	19 34	1 11	13 15	1 0	10 59	1 42	12 58	2 22	1 11	0 37	18 14	0 49	12 47	16 59	2 58	2 33	11 9			n.a.
S 17	15 4	18 34	5 7	16 52	1 43	19 15	1 13	13 1	1 0	11 2	1 42	13 0	2 22	1 13	0 37	18 15	0 49	12 48	16 59	2 59	2 34	11 11			n.a.
S 18	14 45	17 55	4 44	16 13	1 41	18 56	1 14	12 47	1 0	11 5	1 42	13 2	2 22	1 14	0 37	18 15	0 49	12 48	16 59	3 1	2 35	11 13			n.a.
M19	14 26	16 15	4 6	15 34	1 38	18 36	1 15	12 33	0 59	11 7	1 42	13 4	2 22	1 15	0 37	18 16	0 49	12 49	16 59	3 3	2 37	11 14			n.a.
T 20	14 7	13 44	3 15	14 54	1 34	18 16	1 16	12 18	0 59	11 10	1 42	13 5	2 22	1 16	0 37	18 16	0 49	12 49	16 59	3 5	2 38	11 16			n.a.
W21	13 47	10 33	2 14	14 13	1 30	17 55	1 17	12 4	0 59	11 13	1 42	13 7	2 23	1 17	0 37	18 17	0 49	12 50	17 0	3 6	2 39	11 17			n.a.
T 22	13 28	6 56	1 8	13 31	1 26	17 34	1 18	11 49	0 58	11 16	1 42	13 9	2 23	1 19	0 37	18 17	0 49	12 50	17 0	3 7	2 41	11 19			n.a.
F 23	13 8	3 5	0n 1	12 49	1 21	17 12	1 19	11 35	0 58	11 19	1 43	13 11	2 23	1 20	0 37	18 18	0 49	12 51	17 0	3 7	2 42	11 20			n.a.
S 24	12 48	0s49	1 8	12 7	1 17	16 49	1 20	11 20	0 58	11 22	1 43	13 12	2 23	1 21	0 37	18 18	0 49	12 51	17 0	3 7	2 43	11 22			n.a.
S 25	12 27	4 37	2 11	11 24	1 11	16 27	1 21	11 5	0 57	11 26	1 43	13 14	2 23	1 23	0 37	18 19	0 49	12 52	17 1	3 7	2 44	11 23			n.a.
M26	12 7	8 11	3 7	10 40	1 6	16 3	1 21	10 50	0 57	11 29	1 43	13 16	2 23	1 24	0 37	18 19	0 49	12 52	17 1	3 6	2 46	11 25			n.a.
T 27	11 46	11 24	3 55	9 57	1 0	15 39	1 22	10 35	0 57	11 32	1 43	13 18	2 23	1 25	0 37	18 19	0 49	12 53	17 1	3 5	2 47	11 26			n.a.
W28	11 25	14 8	4 34	9 13	0 55	15 15	1 23	10 20	0 56	11 35	1 43	13 19	2 23	1 27	0 37	18 20	0 49	12 53	17 1	3 5	2 48	11 28			n.a.
T 29	11 4	16 19	5 0	8 29	0 49	14 51	1 23	10 5	0 56	11 38	1 43	13 21	2 23	1 28	0 37	18 20	0 49	12 54	17 1	3 5	2 49	11 29			n.a.
F 30	10 42	17 47	5 14	7 45	0 42	14 26	1 24	9 50	0 55	11 41	1 43	13 23	2 23	1 29	0 37	18 21	0 49	12 54	17 2	3 5	2 51	11 31			n.a.
S 31	10n21	18s28	5n14	7n 0	0n36	14n 0	1n24	9n35	0n55	11s44	1s43	13s25	2s23	1s31	0n37	18s21	0s49	12s55	17s 2	3n 6	2n52	11s32			n.a.

Julian Day Number = 1675613.5, Delta T = 03h18m12s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'52, Lahiri = - 5°40'51 Julian Calendar 1 Aug. 126 BCE == Greg. Calendar 29 July 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

SEPTEMBER 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 25 49	4♍26'45	11♉13	15♍24	28♌ 8	8♍29	3°R56	1°R 4	5♎13	11°R18	6°R39	22°R15	22♍48	10♏41	n.a.	S 1
M 2	22 29 45	5°25'50	24°11	17° 2	29°23	9° 9	3♓48	1♓ 0	5°17	11♒17	6♈38	22♍12	22°45	10°47	n.a.	M 2
T 3	22 33 42	6°24'57	7♒31	18°38	0♍38	9°49	3°40	0°55	5°20	11°15	6°37	22°10	22°42	10°54	n.a.	T 3
W 4	22 37 38	7°24'06	21°13	20°14	1°53	10°29	3°32	0°50	5°23	11°14	6°36	22° 8	22°39	11° 1	n.a.	W 4
T 5	22 41 35	8°23'17	5♓15	21°48	3° 8	11° 8	3°24	0°46	5°27	11°12	6°35	22° 7	22°35	11° 7	n.a.	T 5
F 6	22 45 31	9°22'31	19°34	23°22	4°24	11°48	3°16	0°41	5°30	11°11	6°34	22°D 6	22°32	11°14	n.a.	F 6
S 7	22 49 28	10°21'46	4♈ 4	24°56	5°39	12°28	3° 8	0°36	5°34	11°10	6°33	22° 7	22°29	11°21	n.a.	S 7
S 8	22 53 24	11°21'04	18°39	26°28	6°54	13° 8	3° 0	0°32	5°37	11° 8	6°32	22° 7	22°26	11°27	n.a.	S 8
M 9	22 57 21	12°20'23	3♉14	28° 0	8° 9	13°48	2°52	0°27	5°41	11° 7	6°31	22° 8	22°23	11°34	n.a.	M 9
T 10	23 1 17	13°19'46	17°43	29°30	9°24	14°28	2°44	0°23	5°44	11° 6	6°30	22° 9	22°20	11°41	n.a.	T 10
W11	23 5 14	14°19'11	2♊ 3	1♎ 0	10°39	15° 8	2°36	0°18	5°48	11° 4	6°29	22° 9	22°16	11°48	n.a.	W11
T 12	23 9 11	15°18'38	16°10	2°30	11°54	15°48	2°29	0°14	5°52	11° 3	6°28	22°R10	22°13	11°54	n.a.	T 12
F 13	23 13 7	16°18'08	0♋ 3	3°58	13° 9	16°29	2°21	0° 9	5°55	11° 2	6°27	22° 9	22°10	12° 1	n.a.	F 13
S 14	23 17 4	17°17'40	13°42	5°26	14°25	17° 9	2°14	0° 5	5°59	11° 0	6°26	22° 9	22° 7	12° 8	n.a.	S 14
S 15	23 21 0	18°17'15	27° 6	6°53	15°40	17°49	2° 6	0° 1	6° 2	10°59	6°25	22° 9	22° 4	12°14	n.a.	S 15
M16	23 24 57	19°16'52	10♌16	8°19	16°55	18°29	1°59	29♒56	6° 6	10°58	6°24	22° 8	22° 0	12°21	n.a.	M16
T 17	23 28 53	20°16'31	23°12	9°44	18°10	19°10	1°51	29°52	6°10	10°57	6°23	22° 8	21°57	12°28	n.a.	T 17
W18	23 32 50	21°16'12	5♍54	11° 9	19°26	19°50	1°44	29°48	6°13	10°56	6°22	22° 8	21°54	12°34	n.a.	W18
T 19	23 36 46	22°15'56	18°24	12°32	20°41	20°30	1°37	29°44	6°17	10°54	6°21	22° 8	21°51	12°41	n.a.	T 19
F 20	23 40 43	23°15'42	0♎42	13°55	21°56	21°11	1°30	29°40	6°21	10°53	6°20	22° 8	21°48	12°48	n.a.	F 20
S 21	23 44 40	24°15'29	12°50	15°16	23°12	21°51	1°23	29°35	6°24	10°52	6°18	22° 8	21°45	12°54	n.a.	S 21
S 22	23 48 36	25°15'19	24°50	16°37	24°27	22°32	1°17	29°31	6°28	10°51	6°17	22° 7	21°41	13° 1	n.a.	S 22
M23	23 52 33	26°15'10	6♏43	17°56	25°42	23°12	1°10	29°28	6°32	10°50	6°16	22° 7	21°38	13° 8	n.a.	M23
T 24	23 56 29	27°15'04	18°33	19°15	26°57	23°53	1° 4	29°24	6°36	10°49	6°15	22° 6	21°35	13°15	n.a.	T 24
W25	0 0 26	28°14'59	0♐23	20°32	28°13	24°34	0°57	29°20	6°39	10°48	6°14	22° 5	21°32	13°21	n.a.	W25
T 26	0 4 22	29°14'57	12°17	21°48	29°28	25°14	0°51	29°16	6°43	10°47	6°13	22° 5	21°29	13°28	n.a.	T 26
F 27	0 8 19	0♎14'56	24°20	23° 2	0♎44	25°55	0°45	29°12	6°47	10°46	6°12	22° 4	21°25	13°35	n.a.	F 27
S 28	0 12 15	1°14'56	6♉35	24°14	1°59	26°36	0°39	29° 9	6°51	10°45	6°11	22°D 4	21°22	13°41	n.a.	S 28
S 29	0 16 12	2°14'59	19° 8	25°25	3°14	27°17	0°33	29° 5	6°54	10°44	6° 9	22° 5	21°19	13°48	n.a.	S 29
M30	0 20 8	3♎15'03	2♒ 2	26♎34	4♎30	27♍57	0♓28	29♒ 2	6♎58	10♒43	6♈ 8	22♍ 6	21♍16	13♏55	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n59	18s16	4n59	6n16	0n29	13n34	1n24	9n19	0n55	11s47	1s43	13s26	2s23	1s32	0n37	18s22	0s49	12s55	17s 2	3n 7	2n53	11s34		n.a.
M 2	9 37	17 7	4 28	5 32	0 23	13 8	1 25	9 4	0 54	11 50	1 43	13 28	2 23	1 33	0 37	18 22	0 49	12 56	17 2	3 8	2 55	11 35		n.a.
T 3	9 15	15 1	3 42	4 47	0 16	12 41	1 25	8 48	0 54	11 53	1 43	13 30	2 23	1 35	0 37	18 22	0 49	12 56	17 2	3 8	2 56	11 37		n.a.
W 4	8 53	12 1	2 43	4 3	0 9	12 15	1 25	8 33	0 54	11 56	1 43	13 32	2 23	1 36	0 37	18 23	0 49	12 57	17 2	3 9	2 57	11 38		n.a.
T 5	8 31	8 16	1 32	3 19	0 2	11 47	1 25	8 17	0 53	11 59	1 43	13 33	2 23	1 37	0 37	18 23	0 49	12 58	17 3	3 10	2 58	11 40		n.a.
F 6	8 9	3 58	0 14	2 35	0s 5	11 20	1 25	8 2	0 53	12 1	1 43	13 35	2 23	1 39	0 37	18 24	0 49	12 58	17 3	3 10	3 0	11 41		n.a.
S 7	7 46	0n38	1s 6	1 52	0 12	10 52	1 25	7 46	0 53	12 4	1 43	13 37	2 23	1 40	0 37	18 24	0 49	12 59	17 3	3 10	3 1	11 43		n.a.
S 8	7 23	5 12	2 22	1 8	0 19	10 23	1 25	7 30	0 52	12 7	1 43	13 38	2 23	1 42	0 37	18 24	0 49	12 59	17 3	3 10	3 2	11 44		n.a.
M 9	7 0	9 27	3 29	0 25	0 26	9 55	1 25	7 14	0 52	12 10	1 43	13 40	2 23	1 43	0 37	18 25	0 49	13 0	17 3	3 9	3 3	11 46		n.a.
T 10	6 37	13 7	4 22	0s18	0 33	9 26	1 25	6 58	0 51	12 13	1 43	13 42	2 23	1 45	0 37	18 25	0 49	13 0	17 3	3 9	3 5	11 47		n.a.
W11	6 14	15 56	4 58	1 1	0 40	8 57	1 24	6 42	0 51	12 16	1 43	13 43	2 23	1 46	0 37	18 25	0 49	13 1	17 3	3 9	3 6	11 49		n.a.
T 12	5 51	17 45	5 16	1 43	0 47	8 28	1 24	6 26	0 51	12 18	1 43	13 45	2 23	1 47	0 37	18 26	0 49	13 1	17 4	3 9	3 7	11 50		n.a.
F 13	5 28	18 28	5 14	2 25	0 54	7 58	1 23	6 10	0 50	12 21	1 43	13 46	2 23	1 49	0 37	18 26	0 49	13 2	17 4	3 9	3 8	11 52		n.a.
S 14	5 4	18 6	4 55	3 7	1 1	7 29	1 23	5 54	0 50	12 24	1 43	13 48	2 23	1 50	0 37	18 27	0 49	13 2	17 4	3 9	3 10	11 53		n.a.
S 15	4 41	16 43	4 20	3 48	1 8	6 59	1 22	5 37	0 49	12 26	1 43	13 49	2 23	1 52	0 37	18 27	0 49	13 3	17 4	3 9	3 11	11 55		n.a.
M16	4 17	14 28	3 32	4 29	1 15	6 28	1 22	5 21	0 49	12 29	1 43	13 51	2 23	1 53	0 37	18 27	0 49	13 3	17 4	3 9	3 12	11 56		n.a.
T 17	3 54	11 31	2 34	5 9	1 22	5 58	1 21	5 5	0 49	12 32	1 43	13 52	2 23	1 55	0 37	18 28	0 49	13 4	17 4	3 9	3 14	11 58		n.a.
W18	3 30	8 4	1 29	5 49	1 29	5 28	1 20	4 48	0 48	12 34	1 43	13 54	2 23	1 56	0 37	18 28	0 49	13 4	17 4	3 9	3 15	11 59		n.a.
T 19	3 6	4 19	0 21	6 28	1 36	4 57	1 20	4 32	0 48	12 37	1 42	13 55	2 23	1 58	0 37	18 28	0 49	13 5	17 4	3 9	3 16	12 1		n.a.
F 20	2 42	0 26	0n47	7 7	1 42	4 26	1 19	4 16	0 47	12 39	1 42	13 57	2 23	1 59	0 37	18 28	0 49	13 5	17 4	3 9	3 17	12 2		n.a.
S 21	2 18	3s24	1 53	7 45	1 49	3 55	1 18	3 59	0 47	12 41	1 42	13 58	2 23	2 1	0 37	18 29	0 49	13 6	17 4	3 9	3 19	12 4		n.a.
S 22	1 54	7 4	2 52	8 22	1 55	3 24	1 17	3 42	0 47	12 44	1 42	13 59	2 23	2 2	0 37	18 29	0 49	13 6	17 4	3 10	3 20	12 5		n.a.
M23	1 30	10 24	3 43	8 58	2 1	2 53	1 16	3 26	0 46	12 46	1 42	14 1	2 23	2 4	0 37	18 29	0 49	13 7	17 4	3 10	3 21	12 7		n.a.
T 24	1 6	13 18	4 25	9 34	2 7	2 22	1 15	3 9	0 46	12 48	1 42	14 2	2 23	2 5	0 37	18 30	0 49	13 7	17 4	3 10	3 22	12 8		n.a.
W25	0 42	15 39	4 55	10 9	2 13	1 50	1 13	2 53	0 45	12 50	1 42	14 3	2 23	2 7	0 37	18 30	0 49	13 8	17 5	3 10	3 24	12 10		n.a.
T 26	0 18	17 21	5 13	10 43	2 18	1 19	1 12	2 36	0 45	12 52	1 42	14 5	2 23	2 8	0 37	18 30	0 49	13 8	17 5	3 11	3 25	12 11		n.a.
F 27	0s 6	18 18	5 17	11 16	2 23	0 47	1 11	2 19	0 44	12 54	1 41	14 6	2 22	2 10	0 37	18 30	0 49	13 9	17 5	3 11	3 26	12 13		n.a.
S 28	0 30	18 26	5 7	11 48	2 28	0 16	1 10	2 2	0 44	12 56	1 41	14 7	2 22	2 11	0 37	18 31	0 49	13 9	17 5	3 11	3 27	12 14		n.a.
S 29	0 54	17 40	4 43	12 18	2 33	0s16	1 8	1 46	0 44	12 58	1 41	14 8	2 22	2 13	0 37	18 31	0 49	13 10	17 5	3 11	3 29	12 16		n.a.
M30	1s18	15s59	4n 3	12s48	2s37	0s47	1n 7	1n29	0n43	13s 0	1s41	14s 9	2s22	2s14	0n37	18s31	0s48	13s10	17s 5	3n10	3n30	12s17		n.a.

Julian Day Number = 1675644.5, Delta T = 03h18m12s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'48, Lahiri = - 5°40'47 Julian Calendar 1 Sept. 126 BCE == Greg. Calendar 29 Aug. 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

OCTOBER 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 24 5	4♎15'09	15♒20	27♎41	5♎45	28♍38	0°R22	28°R58	7♎ 2	10°R43	6°R 7	22♍ 7	21♍13	14♏ 1	n.a.	T 1
W 2	0 28 2	5°15'16	29° 5	28°45	7° 0	29°19	0♓17	28♒55	7° 6	10♒42	6♈ 6	22° 8	21°10	14° 8	n.a.	W 2
T 3	0 31 58	6°15'25	13♓16	29°47	8°16	0♎ 0	0°12	28°52	7° 9	10°41	6° 5	22° 9	21° 6	14°15	n.a.	T 3
F 4	0 35 55	7°15'36	27°49	0♏46	9°31	0°41	0° 7	28°49	7°13	10°40	6° 4	22°R 9	21° 3	14°21	n.a.	F 4
S 5	0 39 51	8°15'49	12♈40	1°41	10°46	1°22	0° 2	28°46	7°17	10°40	6° 3	22° 8	21° 0	14°28	n.a.	S 5
S 6	0 43 48	9°16'04	27°41	2°33	12° 2	2° 3	29♒58	28°43	7°21	10°39	6° 1	22° 6	20°57	14°35	n.a.	S 6
M 7	0 47 44	10°16'21	12♉43	3°21	13°17	2°44	29°53	28°40	7°24	10°38	6° 0	22° 4	20°54	14°42	n.a.	M 7
T 8	0 51 41	11°16'39	27°37	4° 4	14°33	3°26	29°49	28°37	7°28	10°38	5°59	22° 2	20°51	14°48	n.a.	T 8
W 9	0 55 37	12°17'00	12♊16	4°42	15°48	4° 7	29°45	28°34	7°32	10°37	5°58	21°59	20°47	14°55	n.a.	W 9
T 10	0 59 34	13°17'23	26°35	5°14	17° 3	4°48	29°41	28°31	7°36	10°37	5°57	21°57	20°44	15° 2	n.a.	T 10
F 11	1 3 31	14°17'48	10♋31	5°40	18°19	5°29	29°37	28°29	7°39	10°36	5°56	21°D57	20°41	15° 8	n.a.	F 11
S 12	1 7 27	15°18'15	24° 5	5°59	19°34	6°11	29°34	28°26	7°43	10°36	5°55	21°57	20°38	15°15	n.a.	S 12
S 13	1 11 24	16°18'44	7♌17	6°11	20°50	6°52	29°31	28°24	7°47	10°35	5°54	21°58	20°35	15°22	n.a.	S 13
M14	1 15 20	17°19'15	20°10	6°R14	22° 5	7°33	29°28	28°22	7°51	10°35	5°52	22° 0	20°31	15°28	n.a.	M14
T 15	1 19 17	18°19'48	2♍47	6° 7	23°20	8°15	29°25	28°20	7°54	10°34	5°51	22° 1	20°28	15°35	n.a.	T 15
W16	1 23 13	19°20'23	15°11	5°51	24°36	8°56	29°22	28°17	7°58	10°34	5°50	22° 2	20°25	15°42	n.a.	W16
T 17	1 27 10	20°20'59	27°25	5°25	25°51	9°38	29°20	28°15	8° 2	10°34	5°49	22°R 2	20°22	15°49	n.a.	T 17
F 18	1 31 6	21°21'38	9♎30	4°49	27° 7	10°20	29°17	28°14	8° 6	10°33	5°48	22° 1	20°19	15°55	n.a.	F 18
S 19	1 35 3	22°22'17	21°29	4° 3	28°22	11° 1	29°15	28°12	8° 9	10°33	5°47	21°58	20°16	16° 2	n.a.	S 19
S 20	1 39 0	23°22'59	3♏23	3° 6	29°38	11°43	29°13	28°10	8°13	10°33	5°46	21°53	20°12	16° 9	n.a.	S 20
M21	1 42 56	24°23'42	15°14	2° 1	0♏53	12°25	29°12	28° 9	8°17	10°33	5°45	21°48	20° 9	16°15	n.a.	M21
T 22	1 46 53	25°24'26	27° 4	0°49	2° 8	13° 6	29°10	28° 7	8°20	10°32	5°44	21°41	20° 6	16°22	n.a.	T 22
W23	1 50 49	26°25'12	8♐55	29♎30	3°24	13°48	29° 9	28° 6	8°24	10°32	5°43	21°35	20° 3	16°29	n.a.	W23
T 24	1 54 46	27°25'59	20°50	28° 9	4°39	14°30	29° 8	28° 4	8°28	10°32	5°42	21°29	20° 0	16°35	n.a.	T 24
F 25	1 58 42	28°26'47	2♑52	26°48	5°55	15°12	29° 7	28° 3	8°31	10°32	5°41	21°24	19°56	16°42	n.a.	F 25
S 26	2 2 39	29°27'36	15° 4	25°28	7°10	15°54	29° 6	28° 2	8°35	10°D32	5°40	21°21	19°53	16°49	n.a.	S 26
S 27	2 6 35	0♏28'27	27°31	24°14	8°26	16°36	29° 6	28° 1	8°38	10°32	5°39	21°D20	19°50	16°56	n.a.	S 27
M28	2 10 32	1°29'18	10♒17	23° 7	9°41	17°18	29° 6	28° 0	8°42	10°32	5°38	21°20	19°47	17° 2	n.a.	M28
T 29	2 14 29	2°30'11	23°27	22° 9	10°56	18° 0	29°D 6	28° 0	8°45	10°32	5°37	21°22	19°44	17° 9	n.a.	T 29
W30	2 18 25	3°31'04	7♓ 3	21°21	12°12	18°42	29° 6	27°59	8°49	10°32	5°36	21°23	19°41	17°16	n.a.	W30
T 31	2 22 22	4♏31'58	21♓ 7	20♎44	13♏27	19♎24	29♒ 6	27♒59	8♎52	10♒33	5♈35	21°R24	19♍37	17♏22	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	1s43	13s23	3n10	13s16	2s41	1s19	1n 5	1n12	0n43	13s 2	1s41	14s11	2s22	2s16	0n37	18s31	0s48	13s10	17s 5	3n10	3n31	12s19			n.a.
W 2	2 7	9 59	2 4	13 42	2 44	1 50	1 4	0 55	0 42	13 4	1 41	14 12	2 22	2 17	0 37	18 31	0 48	13 11	17 5	3 9	3 33	12 20			n.a.
T 3	2 31	5 54	0 49	14 7	2 47	2 22	1 2	0 38	0 42	13 5	1 40	14 13	2 22	2 19	0 37	18 32	0 48	13 11	17 5	3 9	3 34	12 22			n.a.
F 4	2 55	1 21	0s31	14 31	2 50	2 53	1 1	0 21	0 41	13 7	1 40	14 14	2 22	2 20	0 37	18 32	0 48	13 12	17 5	3 9	3 35	12 23			n.a.
S 5	3 19	3n21	1 51	14 52	2 51	3 25	0 59	0 4	0 41	13 8	1 40	14 15	2 22	2 22	0 37	18 32	0 48	13 12	17 5	3 9	3 36	12 24			n.a.
S 6	3 43	7 54	3 4	15 11	2 52	3 56	0 57	0s13	0 40	13 10	1 40	14 16	2 21	2 23	0 37	18 32	0 48	13 13	17 5	3 10	3 38	12 26			n.a.
M 7	4 7	11 57	4 4	15 28	2 53	4 27	0 55	0 30	0 40	13 11	1 39	14 16	2 21	2 25	0 37	18 32	0 48	13 13	17 4	3 11	3 39	12 27			n.a.
T 8	4 31	15 11	4 47	15 43	2 53	4 58	0 54	0 47	0 39	13 13	1 39	14 17	2 21	2 26	0 37	18 33	0 48	13 13	17 4	3 12	3 40	12 29			n.a.
W 9	4 54	17 23	5 11	15 55	2 51	5 29	0 52	1 4	0 39	13 14	1 39	14 18	2 21	2 28	0 37	18 33	0 48	13 14	17 4	3 13	3 41	12 30			n.a.
T 10	5 18	18 26	5 14	16 4	2 49	6 0	0 50	1 20	0 38	13 15	1 39	14 19	2 21	2 29	0 37	18 33	0 48	13 14	17 4	3 13	3 43	12 32			n.a.
F 11	5 42	18 19	4 59	16 10	2 46	6 31	0 48	1 37	0 38	13 16	1 39	14 20	2 21	2 31	0 37	18 33	0 48	13 15	17 4	3 14	3 44	12 33			n.a.
S 12	6 6	17 9	4 27	16 12	2 41	7 2	0 46	1 54	0 37	13 17	1 38	14 21	2 21	2 32	0 37	18 33	0 48	13 15	17 4	3 14	3 45	12 35			n.a.
S 13	6 29	15 5	3 42	16 10	2 35	7 32	0 44	2 11	0 37	13 18	1 38	14 21	2 20	2 34	0 37	18 33	0 48	13 15	17 4	3 13	3 46	12 36			n.a.
M14	6 53	12 18	2 46	16 4	2 28	8 3	0 42	2 28	0 37	13 19	1 38	14 22	2 20	2 35	0 37	18 33	0 48	13 16	17 4	3 13	3 48	12 37			n.a.
T 15	7 16	8 59	1 44	15 54	2 19	8 33	0 40	2 45	0 36	13 20	1 38	14 23	2 20	2 37	0 37	18 33	0 48	13 16	17 4	3 12	3 49	12 39			n.a.
W16	7 39	5 19	0 38	15 39	2 9	9 3	0 38	3 2	0 36	13 20	1 37	14 23	2 20	2 38	0 37	18 34	0 48	13 16	17 4	3 12	3 50	12 40			n.a.
T 17	8 2	1 29	0n29	15 18	1 57	9 33	0 36	3 19	0 35	13 21	1 37	14 24	2 20	2 40	0 37	18 34	0 48	13 17	17 4	3 12	3 52	12 42			n.a.
F 18	8 25	2s22	1 34	14 53	1 43	10 2	0 33	3 36	0 35	13 22	1 37	14 24	2 20	2 41	0 37	18 34	0 48	13 17	17 4	3 12	3 53	12 43			n.a.
S 19	8 48	6 5	2 34	14 23	1 27	10 32	0 31	3 53	0 34	13 22	1 37	14 25	2 20	2 43	0 37	18 34	0 48	13 17	17 4	3 13	3 54	12 45			n.a.
S 20	9 11	9 32	3 27	13 47	1 10	11 1	0 29	4 10	0 34	13 23	1 36	14 25	2 19	2 44	0 37	18 34	0 48	13 18	17 3	3 15	3 55	12 46			n.a.
M21	9 34	12 36	4 10	13 7	0 52	11 30	0 27	4 27	0 33	13 23	1 36	14 25	2 19	2 46	0 37	18 34	0 48	13 18	17 3	3 17	3 57	12 48			n.a.
T 22	9 56	15 8	4 43	12 23	0 32	11 58	0 24	4 44	0 32	13 23	1 36	14 26	2 19	2 47	0 37	18 34	0 48	13 18	17 3	3 20	3 58	12 49			n.a.
W23	10 18	17 2	5 3	11 36	0 12	12 26	0 22	5 1	0 32	13 23	1 36	14 26	2 19	2 48	0 37	18 34	0 48	13 19	17 3	3 23	3 59	12 50			n.a.
T 24	10 40	18 13	5 11	10 48	0n 9	12 54	0 20	5 18	0 31	13 24	1 35	14 26	2 19	2 50	0 37	18 34	0 48	13 19	17 3	3 25	4 0	12 52			n.a.
F 25	11 2	18 36	5 5	9 59	0 29	13 22	0 18	5 35	0 31	13 24	1 35	14 27	2 19	2 51	0 37	18 34	0 48	13 19	17 3	3 27	4 2	12 53			n.a.
S 26	11 24	18 8	4 45	9 12	0 49	13 49	0 15	5 51	0 30	13 24	1 35	14 27	2 18	2 53	0 37	18 34	0 48	13 19	17 3	3 28	4 3	12 55			n.a.
S 27	11 46	16 47	4 11	8 27	1 8	14 16	0 13	6 8	0 30	13 23	1 34	14 27	2 18	2 54	0 37	18 34	0 48	13 20	17 2	3 28	4 4	12 56			n.a.
M28	12 7	14 35	3 25	7 46	1 25	14 43	0 10	6 25	0 29	13 23	1 34	14 27	2 18	2 56	0 37	18 34	0 48	13 20	17 2	3 28	4 5	12 58			n.a.
T 29	12 29	11 34	2 26	7 9	1 41	15 9	0 8	6 42	0 29	13 23	1 34	14 27	2 18	2 57	0 37	18 34	0 48	13 20	17 2	3 28	4 7	12 59			n.a.
W30	12 50	7 50	1 17	6 39	1 54	15 35	0 6	6 58	0 28	13 23	1 34	14 27	2 18	2 58	0 37	18 34	0 48	13 20	17 2	3 27	4 8	13 0			n.a.
T 31	13s10	3s32	0n 1	6s15	2n 6	16s 0	0n 3	7s15	0n28	13s22	1s33	14s27	2s17	3s 0	0n37	18s34	0s48	13s21	17s 2	3n27	4n 9	13s 2			n.a.

Julian Day Number = 1675674.5, Delta T = 03h18m11s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'44, Lahiri = - 5°40'43 Julian Calendar 1 Oct. 126 BCE == Greg. Calendar 28 Sept. 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

NOVEMBER 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 26 18	5♏32'53	5♈39	20°R20	14♏42	20♎ 6	29♒ 7	27°R58	8♎56	10♒33	5°R34	21°R23	19♍34	17♏29	n.a.	F 1
S 2	2 30 15	6°33'49	20°35	20♎ 6	15°58	20°48	29° 8	27♒58	8°59	10°33	5♈33	21♍20	19°31	17°36	n.a.	S 2
S 3	2 34 11	7°34'47	5♉48	20°D 4	17°13	21°31	29° 9	27°58	9° 3	10°33	5°32	21°15	19°28	17°42	n.a.	S 3
M 4	2 38 8	8°35'45	21° 7	20°12	18°29	22°13	29°10	27°D58	9° 6	10°33	5°31	21° 8	19°25	17°49	n.a.	M 4
T 5	2 42 4	9°36'45	6♊22	20°30	19°44	22°55	29°11	27°58	9°10	10°34	5°30	21° 0	19°22	17°56	n.a.	T 5
W 6	2 46 1	10°37'45	21°22	20°57	20°59	23°38	29°13	27°58	9°13	10°34	5°29	20°53	19°18	18° 3	n.a.	W 6
T 7	2 49 58	11°38'47	5♋59	21°31	22°15	24°20	29°15	27°58	9°16	10°35	5°28	20°46	19°15	18° 9	n.a.	T 7
F 8	2 53 54	12°39'51	20° 8	22°13	23°30	25° 3	29°17	27°58	9°20	10°35	5°27	20°42	19°12	18°16	n.a.	F 8
S 9	2 57 51	13°40'55	3♌47	23° 1	24°45	25°45	29°19	27°59	9°23	10°35	5°26	20°39	19° 9	18°23	n.a.	S 9
S 10	3 1 47	14°42'01	17° 0	23°54	26° 1	26°28	29°21	27°59	9°26	10°36	5°25	20°D39	19° 6	18°29	n.a.	S 10
M11	3 5 44	15°43'07	29°48	24°52	27°16	27°10	29°24	28° 0	9°29	10°36	5°25	20°40	19° 2	18°36	n.a.	M11
T 12	3 9 40	16°44'15	12♍17	25°55	28°31	27°53	29°27	28° 1	9°33	10°37	5°24	20°41	18°59	18°43	n.a.	T 12
W13	3 13 37	17°45'24	24°30	27° 1	29°47	28°36	29°30	28° 2	9°36	10°38	5°23	20°R41	18°56	18°49	n.a.	W13
T 14	3 17 33	18°46'33	6♎33	28°10	1♐ 2	29°18	29°33	28° 3	9°39	10°38	5°22	20°39	18°53	18°56	n.a.	T 14
F 15	3 21 30	19°47'44	18°29	29°22	2°17	0♏ 1	29°37	28° 4	9°42	10°39	5°21	20°35	18°50	19° 3	n.a.	F 15
S 16	3 25 27	20°48'55	0♏21	0♏37	3°32	0°44	29°40	28° 5	9°45	10°40	5°21	20°29	18°47	19°10	n.a.	S 16
S 17	3 29 23	21°50'07	12°11	1°53	4°48	1°27	29°44	28° 6	9°48	10°40	5°20	20°19	18°43	19°16	n.a.	S 17
M18	3 33 20	22°51'20	24° 2	3°12	6° 3	2°10	29°48	28° 8	9°51	10°41	5°19	20° 8	18°40	19°23	n.a.	M18
T 19	3 37 16	23°52'33	5♐55	4°32	7°18	2°53	29°52	28° 9	9°54	10°42	5°18	19°55	18°37	19°30	n.a.	T 19
W20	3 41 13	24°53'47	17°50	5°54	8°34	3°36	29°57	28°11	9°57	10°43	5°18	19°41	18°34	19°36	n.a.	W20
T 21	3 45 9	25°55'01	29°51	7°16	9°49	4°19	0♓ 1	28°13	10° 0	10°44	5°17	19°29	18°31	19°43	n.a.	T 21
F 22	3 49 6	26°56'15	11♑57	8°40	11° 4	5° 2	0° 6	28°15	10° 3	10°45	5°16	19°19	18°28	19°50	n.a.	F 22
S 23	3 53 2	27°57'30	24°13	10° 5	12°19	5°45	0°11	28°17	10° 6	10°45	5°16	19°11	18°24	19°57	n.a.	S 23
S 24	3 56 59	28°58'44	6♒40	11°30	13°35	6°28	0°16	28°19	10° 9	10°46	5°15	19° 6	18°21	20° 3	n.a.	S 24
M25	4 0 56	29°59'59	19°22	12°57	14°50	7°11	0°22	28°21	10°11	10°47	5°15	19° 4	18°18	20°10	n.a.	M25
T 26	4 4 52	1♐ 1'14	2♓24	14°24	16° 5	7°54	0°27	28°23	10°14	10°48	5°14	19°D 3	18°15	20°17	n.a.	T 26
W27	4 8 49	2° 2'28	15°49	15°51	17°20	8°38	0°33	28°26	10°17	10°49	5°13	19°R 4	18°12	20°23	n.a.	W27
T 28	4 12 45	3° 3'43	29°39	17°19	18°35	9°21	0°39	28°28	10°20	10°51	5°13	19° 3	18° 8	20°30	n.a.	T 28
F 29	4 16 42	4° 4'57	13♈57	18°48	19°51	10° 4	0°45	28°31	10°22	10°52	5°12	19° 1	18° 5	20°37	n.a.	F 29
S 30	4 20 38	5♐ 6'11	28♈41	20♏17	21♐ 6	10♏48	0♓51	28♒33	10♎25	10♒53	5♈12	18♍56	18♍ 2	20♏43	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s31	1n 6	1s16	5s57	2n15	16s25	0n 1	7s32	0n27	13s22	1s33	14s27	2s17	3s 1	0n37	18s34	0s48	13s21	17s 1	3n27	4n10	13s 3		n.a.
S 2	13 52	5 48	2 31	5 45	2 23	16 50	0s 2	7 48	0 27	13 21	1 33	14 27	2 17	3 3	0 37	18 34	0 48	13 21	17 1	3 28	4 12	13 5		n.a.
S 3	14 12	10 12	3 36	5 39	2 28	17 14	0 4	8 5	0 26	13 21	1 33	14 27	2 17	3 4	0 37	18 33	0 48	13 21	17 1	3 30	4 13	13 6		n.a.
M 4	14 32	13 57	4 27	5 38	2 32	17 37	0 6	8 21	0 25	13 20	1 32	14 27	2 17	3 5	0 37	18 33	0 48	13 21	17 1	3 33	4 14	13 7		n.a.
T 5	14 51	16 44	4 57	5 43	2 35	18 0	0 9	8 37	0 25	13 19	1 32	14 27	2 16	3 7	0 37	18 33	0 48	13 21	17 1	3 36	4 15	13 9		n.a.
W 6	15 11	18 19	5 7	5 52	2 36	18 23	0 11	8 54	0 24	13 18	1 32	14 27	2 16	3 8	0 37	18 33	0 48	13 22	17 0	3 39	4 17	13 10		n.a.
T 7	15 30	18 38	4 57	6 5	2 35	18 45	0 14	9 10	0 24	13 17	1 31	14 26	2 16	3 9	0 37	18 33	0 48	13 22	17 0	3 42	4 18	13 12		n.a.
F 8	15 49	17 46	4 28	6 22	2 34	19 7	0 16	9 26	0 23	13 16	1 31	14 26	2 16	3 11	0 37	18 33	0 48	13 22	17 0	3 44	4 19	13 13		n.a.
S 9	16 7	15 53	3 45	6 42	2 32	19 28	0 18	9 43	0 23	13 15	1 31	14 26	2 16	3 12	0 37	18 33	0 48	13 22	17 0	3 45	4 21	13 14		n.a.
S 10	16 26	13 12	2 51	7 5	2 28	19 49	0 21	9 59	0 22	13 14	1 31	14 25	2 15	3 13	0 37	18 33	0 48	13 22	17 0	3 45	4 22	13 16		n.a.
M11	16 44	9 57	1 50	7 30	2 24	20 9	0 23	10 15	0 21	13 13	1 30	14 25	2 15	3 14	0 37	18 32	0 48	13 22	16 59	3 44	4 23	13 17		n.a.
T 12	17 2	6 20	0 45	7 57	2 20	20 28	0 26	10 31	0 21	13 12	1 30	14 24	2 15	3 16	0 37	18 32	0 48	13 22	16 59	3 44	4 24	13 19		n.a.
W13	17 19	2 31	0n21	8 26	2 15	20 47	0 28	10 47	0 20	13 10	1 30	14 24	2 15	3 17	0 37	18 32	0 48	13 22	16 59	3 44	4 26	13 20		n.a.
T 14	17 36	1s21	1 24	8 56	2 9	21 5	0 30	11 3	0 20	13 9	1 29	14 23	2 15	3 18	0 37	18 32	0 48	13 23	16 58	3 45	4 27	13 21		n.a.
F 15	17 53	5 7	2 23	9 27	2 3	21 23	0 33	11 18	0 19	13 7	1 29	14 23	2 15	3 19	0 37	18 32	0 48	13 23	16 58	3 46	4 28	13 23		n.a.
S 16	18 10	8 41	3 15	9 59	1 57	21 40	0 35	11 34	0 19	13 6	1 29	14 22	2 14	3 21	0 37	18 31	0 48	13 23	16 58	3 49	4 29	13 24		n.a.
S 17	18 26	11 53	3 59	10 32	1 51	21 57	0 37	11 50	0 18	13 4	1 29	14 21	2 14	3 22	0 37	18 31	0 48	13 23	16 58	3 53	4 31	13 26		n.a.
M18	18 42	14 36	4 32	11 5	1 44	22 12	0 40	12 5	0 17	13 3	1 28	14 21	2 14	3 23	0 37	18 31	0 48	13 23	16 57	3 57	4 32	13 27		n.a.
T 19	18 57	16 43	4 53	11 39	1 37	22 28	0 42	12 21	0 17	13 1	1 28	14 20	2 14	3 24	0 37	18 31	0 48	13 23	16 57	4 2	4 33	13 28		n.a.
W20	19 12	18 8	5 2	12 13	1 30	22 42	0 44	12 36	0 16	12 59	1 28	14 19	2 14	3 25	0 37	18 31	0 48	13 23	16 57	4 8	4 34	13 30		n.a.
T 21	19 27	18 45	4 57	12 47	1 23	22 56	0 46	12 51	0 16	12 57	1 28	14 19	2 13	3 26	0 37	18 30	0 48	13 23	16 57	4 12	4 36	13 31		n.a.
F 22	19 42	18 32	4 39	13 22	1 15	23 9	0 48	13 7	0 15	12 55	1 27	14 18	2 13	3 28	0 37	18 30	0 48	13 23	16 56	4 17	4 37	13 32		n.a.
S 23	19 56	17 26	4 8	13 56	1 8	23 22	0 51	13 22	0 14	12 53	1 27	14 17	2 13	3 29	0 37	18 30	0 48	13 23	16 56	4 20	4 38	13 34		n.a.
S 24	20 9	15 31	3 25	14 29	1 1	23 33	0 53	13 37	0 14	12 51	1 27	14 16	2 13	3 30	0 37	18 29	0 48	13 23	16 56	4 22	4 39	13 35		n.a.
M25	20 23	12 48	2 31	15 3	0 53	23 44	0 55	13 52	0 13	12 49	1 26	14 15	2 13	3 31	0 37	18 29	0 48	13 23	16 55	4 22	4 41	13 37		n.a.
T 26	20 36	9 23	1 27	15 36	0 46	23 55	0 57	14 6	0 12	12 47	1 26	14 14	2 12	3 32	0 37	18 29	0 48	13 23	16 55	4 23	4 42	13 38		n.a.
W27	20 48	5 23	0 17	16 9	0 38	24 4	0 59	14 21	0 12	12 44	1 26	14 13	2 12	3 33	0 37	18 29	0 48	13 23	16 55	4 23	4 43	13 39		n.a.
T 28	21 0	1 0	0s56	16 42	0 31	24 13	1 1	14 36	0 11	12 42	1 26	14 12	2 12	3 34	0 37	18 28	0 48	13 22	16 54	4 23	4 44	13 41		n.a.
F 29	21 12	3n36	2 8	17 14	0 24	24 21	1 3	14 50	0 10	12 40	1 25	14 11	2 12	3 35	0 37	18 28	0 48	13 22	16 54	4 24	4 46	13 42		n.a.
S 30	21s23	8n 7	3s13	17s45	0n16	24s29	1s 5	15s 4	0n10	12s37	1s25	14s10	2s12	3s36	0n37	18s28	0s48	13s22	16s54	4n25	4n47	13s43		n.a.

Julian Day Number = 1675705.5, Delta T = 03h18m10s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'39, Lahiri = - 5°40'39 Julian Calendar 1 Nov. 126 BCE == Greg. Calendar 29 Oct. 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 126 BCE
geocentric

DECEMBER 126 BCE (-125) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 24 35	6♐ 7'25	13♉45	21♏47	22♐21	11♏31	0♓57	28♒36	10♎27	10♒54	5°R11	18°R49	17♍59	20♏50	n.a.	S 1
M 2	4 28 31	7° 8'39	29° 2	23°17	23°36	12°14	1° 4	28°39	10°30	10°55	5♈11	18♍39	17°56	20°57	n.a.	M 2
T 3	4 32 28	8° 9'53	14♊21	24°47	24°51	12°58	1°11	28°42	10°32	10°57	5°10	18°27	17°53	21° 4	n.a.	T 3
W 4	4 36 25	9°11'07	29°30	26°18	26° 6	13°41	1°18	28°45	10°35	10°58	5°10	18°16	17°49	21°10	n.a.	W 4
T 5	4 40 21	10°12'21	14♋18	27°49	27°21	14°25	1°25	28°48	10°37	10°59	5°10	18° 6	17°46	21°17	n.a.	T 5
F 6	4 44 18	11°13'35	28°40	29°21	28°36	15° 9	1°32	28°52	10°39	11° 0	5° 9	17°58	17°43	21°24	n.a.	F 6
S 7	4 48 14	12°14'49	12♌30	0♐53	29°51	15°52	1°39	28°55	10°42	11° 2	5° 9	17°52	17°40	21°30	n.a.	S 7
S 8	4 52 11	13°16'03	25°51	2°25	1♑ 7	16°36	1°47	28°59	10°44	11° 3	5° 9	17°50	17°37	21°37	n.a.	S 8
M 9	4 56 7	14°17'17	8♍44	3°58	2°22	17°20	1°54	29° 2	10°46	11° 5	5° 8	17°49	17°34	21°44	n.a.	M 9
T 10	5 0 4	15°18'31	21°14	5°31	3°37	18° 3	2° 2	29° 6	10°48	11° 6	5° 8	17°49	17°30	21°51	n.a.	T 10
W11	5 4 1	16°19'45	3♎26	7° 5	4°52	18°47	2°10	29°10	10°50	11° 7	5° 8	17°48	17°27	21°57	n.a.	W11
T 12	5 7 57	17°20'58	15°26	8°39	6° 7	19°31	2°18	29°14	10°52	11° 9	5° 7	17°46	17°24	22° 4	n.a.	T 12
F 13	5 11 54	18°22'12	27°18	10°13	7°22	20°15	2°27	29°17	10°54	11°11	5° 7	17°41	17°21	22°11	n.a.	F 13
S 14	5 15 50	19°23'26	9♏ 7	11°48	8°37	20°59	2°35	29°22	10°56	11°12	5° 7	17°34	17°18	22°17	n.a.	S 14
S 15	5 19 47	20°24'39	20°57	13°24	9°52	21°43	2°44	29°26	10°58	11°14	5° 7	17°23	17°14	22°24	n.a.	S 15
M16	5 23 43	21°25'51	2♐49	15° 0	11° 7	22°27	2°52	29°30	11° 0	11°15	5° 7	17°10	17°11	22°31	n.a.	M16
T 17	5 27 40	22°27'04	14°47	16°36	12°21	23°11	3° 1	29°34	11° 2	11°17	5° 6	16°55	17° 8	22°38	n.a.	T 17
W18	5 31 36	23°28'16	26°50	18°13	13°36	23°55	3°10	29°39	11° 4	11°19	5° 6	16°40	17° 5	22°44	n.a.	W18
T 19	5 35 33	24°29'27	9♑ 1	19°50	14°51	24°39	3°19	29°43	11° 5	11°20	5° 6	16°25	17° 2	22°51	n.a.	T 19
F 20	5 39 30	25°30'37	21°19	21°28	16° 6	25°23	3°29	29°48	11° 7	11°22	5° 6	16°13	16°59	22°58	n.a.	F 20
S 21	5 43 26	26°31'46	3♒46	23° 6	17°21	26° 8	3°38	29°52	11° 9	11°24	5° 6	16° 4	16°55	23° 4	n.a.	S 21
S 22	5 47 23	27°32'55	16°23	24°45	18°36	26°52	3°48	29°57	11°10	11°25	5° 6	15°58	16°52	23°11	n.a.	S 22
M23	5 51 19	28°34'02	29°12	26°25	19°51	27°36	3°57	0♓ 2	11°12	11°27	5°D 6	15°54	16°49	23°18	n.a.	M23
T 24	5 55 16	29°35'09	12♓16	28° 5	21° 5	28°20	4° 7	0° 7	11°13	11°29	5° 6	15°D53	16°46	23°25	n.a.	T 24
W25	5 59 12	0♑36'14	25°38	29°45	22°20	29° 5	4°17	0°12	11°14	11°31	5° 6	15°R54	16°43	23°31	n.a.	W25
T 26	6 3 9	1°37'18	9♈19	1♑27	23°35	29°49	4°27	0°17	11°16	11°33	5° 6	15°53	16°39	23°38	n.a.	T 26
F 27	6 7 5	2°38'21	23°22	3° 9	24°50	0♐33	4°37	0°22	11°17	11°34	5° 6	15°52	16°36	23°45	n.a.	F 27
S 28	6 11 2	3°39'22	7♉46	4°51	26° 4	1°18	4°47	0°27	11°18	11°36	5° 6	15°48	16°33	23°51	n.a.	S 28
S 29	6 14 59	4°40'22	22°29	6°34	27°19	2° 2	4°58	0°32	11°19	11°38	5° 6	15°41	16°30	23°58	n.a.	S 29
M30	6 18 55	5°41'21	7♊26	8°18	28°34	2°47	5° 8	0°38	11°21	11°40	5° 7	15°32	16°27	24° 5	n.a.	M30
T 31	6 22 52	6♑42'19	22♊28	10♑ 2	29♑48	3♐31	5♓19	0♓43	11♎22	11♒42	5♈ 7	15♍22	16♍24	24♏12	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21s34	12n13	4s 7	18s16	0n 9	24s35	1s 6	15s19	0n 9	12s35	1s25	14s 8	2s11	3s37	0n37	18s27	0s48	13s22	16s53	4n28	4n48	13s45			n.a.
M 2	21 45	15 33	4 43	18 46	0 2	24 41	1 8	15 33	0 9	12 32	1 25	14 7	2 11	3 38	0 37	18 27	0 48	13 22	16 53	4 32	4 49	13 46			n.a.
T 3	21 55	17 49	5 0	19 15	0s 5	24 46	1 10	15 47	0 8	12 29	1 24	14 6	2 11	3 39	0 37	18 27	0 48	13 22	16 53	4 37	4 51	13 47			n.a.
W 4	22 5	18 47	4 55	19 44	0 12	24 51	1 12	16 1	0 7	12 27	1 24	14 5	2 11	3 40	0 37	18 26	0 48	13 22	16 52	4 41	4 52	13 49			n.a.
T 5	22 14	18 27	4 30	20 12	0 19	24 54	1 13	16 14	0 7	12 24	1 24	14 3	2 11	3 41	0 37	18 26	0 48	13 22	16 52	4 45	4 53	13 50			n.a.
F 6	22 23	16 56	3 49	20 39	0 25	24 57	1 15	16 28	0 6	12 21	1 24	14 2	2 11	3 42	0 37	18 25	0 47	13 22	16 52	4 49	4 54	13 52			n.a.
S 7	22 31	14 27	2 55	21 5	0 32	24 59	1 17	16 41	0 5	12 18	1 23	14 1	2 10	3 43	0 37	18 25	0 47	13 21	16 51	4 51	4 56	13 53			n.a.
S 8	22 39	11 16	1 53	21 30	0 38	25 0	1 18	16 55	0 5	12 15	1 23	13 59	2 10	3 43	0 37	18 25	0 47	13 21	16 51	4 52	4 57	13 54			n.a.
M 9	22 46	7 39	0 48	21 54	0 45	25 1	1 20	17 8	0 4	12 12	1 23	13 58	2 10	3 44	0 37	18 24	0 47	13 21	16 51	4 52	4 58	13 56			n.a.
T 10	22 53	3 47	0n18	22 18	0 51	25 0	1 21	17 21	0 3	12 9	1 23	13 56	2 10	3 45	0 37	18 24	0 47	13 21	16 50	4 52	4 59	13 57			n.a.
W11	23 0	0s 8	1 22	22 40	0 57	24 59	1 22	17 34	0 3	12 6	1 22	13 55	2 10	3 46	0 37	18 23	0 47	13 21	16 50	4 52	5 1	13 58			n.a.
T 12	23 6	3 59	2 20	23 1	1 2	24 57	1 24	17 47	0 2	12 3	1 22	13 53	2 9	3 47	0 37	18 23	0 47	13 20	16 50	4 53	5 2	14 0			n.a.
F 13	23 12	7 38	3 12	23 21	1 8	24 55	1 25	17 59	0 1	12 0	1 22	13 52	2 9	3 47	0 37	18 23	0 47	13 20	16 49	4 55	5 3	14 1			n.a.
S 14	23 17	10 59	3 56	23 40	1 13	24 51	1 26	18 12	0 0	11 56	1 22	13 50	2 9	3 48	0 37	18 22	0 47	13 20	16 49	4 58	5 4	14 2			n.a.
S 15	23 21	13 52	4 29	23 58	1 18	24 47	1 27	18 24	0s 0	11 53	1 21	13 49	2 9	3 49	0 37	18 22	0 47	13 20	16 49	5 2	5 6	14 4			n.a.
M16	23 26	16 13	4 50	24 14	1 23	24 42	1 28	18 36	0 1	11 49	1 21	13 47	2 9	3 50	0 37	18 21	0 47	13 19	16 48	5 8	5 7	14 5			n.a.
T 17	23 29	17 52	4 59	24 29	1 28	24 36	1 29	18 48	0 2	11 46	1 21	13 45	2 9	3 50	0 37	18 21	0 47	13 19	16 48	5 13	5 8	14 6			n.a.
W18	23 33	18 45	4 55	24 43	1 32	24 30	1 30	19 0	0 2	11 43	1 21	13 44	2 8	3 51	0 38	18 20	0 47	13 19	16 48	5 19	5 9	14 8			n.a.
T 19	23 35	18 48	4 37	24 55	1 37	24 23	1 31	19 12	0 3	11 39	1 21	13 42	2 8	3 52	0 38	18 20	0 47	13 19	16 47	5 25	5 11	14 9			n.a.
F 20	23 38	17 57	4 6	25 6	1 41	24 15	1 32	19 23	0 4	11 35	1 20	13 40	2 8	3 52	0 38	18 19	0 47	13 18	16 47	5 30	5 12	14 10			n.a.
S 21	23 40	16 14	3 23	25 16	1 44	24 6	1 33	19 34	0 4	11 32	1 20	13 38	2 8	3 53	0 38	18 19	0 47	13 18	16 47	5 33	5 13	14 12			n.a.
S 22	23 41	13 44	2 29	25 24	1 48	23 56	1 33	19 46	0 5	11 28	1 20	13 36	2 8	3 53	0 38	18 18	0 47	13 18	16 46	5 36	5 14	14 13			n.a.
M23	23 42	10 31	1 27	25 30	1 51	23 46	1 34	19 56	0 6	11 24	1 20	13 34	2 8	3 54	0 38	18 18	0 47	13 17	16 46	5 37	5 16	14 14			n.a.
T 24	23 42	6 44	0 19	25 35	1 53	23 35	1 35	20 7	0 7	11 20	1 20	13 33	2 8	3 55	0 38	18 17	0 47	13 17	16 45	5 37	5 17	14 16			n.a.
W25	23 42	2 32	0s51	25 38	1 56	23 24	1 35	20 18	0 7	11 17	1 19	13 31	2 7	3 55	0 38	18 17	0 47	13 17	16 45	5 37	5 18	14 17			n.a.
T 26	23 42	1n53	2 1	25 40	1 58	23 11	1 35	20 28	0 8	11 13	1 19	13 29	2 7	3 56	0 38	18 16	0 47	13 16	16 45	5 38	5 19	14 18			n.a.
F 27	23 41	6 19	3 5	25 40	2 0	22 58	1 36	20 38	0 9	11 9	1 19	13 27	2 7	3 56	0 38	18 16	0 47	13 16	16 44	5 38	5 21	14 19			n.a.
S 28	23 39	10 30	3 59	25 38	2 1	22 45	1 36	20 48	0 10	11 5	1 19	13 25	2 7	3 57	0 38	18 15	0 47	13 16	16 44	5 40	5 22	14 21			n.a.
S 29	23 37	14 7	4 38	25 34	2 2	22 30	1 36	20 58	0 10	11 1	1 19	13 23	2 7	3 57	0 38	18 15	0 47	13 15	16 44	5 42	5 23	14 22			n.a.
M30	23 35	16 53	4 59	25 29	2 2	22 15	1 36	21 8	0 11	10 57	1 18	13 21	2 7	3 57	0 38	18 14	0 47	13 15	16 43	5 46	5 24	14 23			n.a.
T 31	23s32	18n30	5s 0	25s21	2s 2	21s59	1s36	21s17	0s12	10s53	1s18	13s19	2s 7	3s58	0n38	18s14	0s47	13s14	16s43	5n50	5n26	14s25			n.a.

Julian Day Number = 1675735.5, Delta T = 03h18m09s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'35, Lahiri = - 5°40'35 Julian Calendar 1 Dec. 126 BCE == Greg. Calendar 28 Nov. 126 BCE

The year -125 astronomical counting style corresponds to year 126 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

JANUARY 125 BCE (-124) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 26 48	7♉43'16	7♋25	11♉47	1♒ 3	4♐16	5♓29	0♓49	11♎23	11♒44	5♈ 7	15°R11	16♍20	24♏18	n.a.	W 1
T 2	6 30 45	8°44'11	22° 9	13°33	2°17	5° 0	5°40	0°54	11°24	11°46	5° 7	15♍ 1	16°17	24°25	n.a.	T 2
F 3	6 34 41	9°45'06	6♌30	15°19	3°32	5°45	5°51	1° 0	11°25	11°48	5° 7	14°53	16°14	24°32	n.a.	F 3
S 4	6 38 38	10°45'59	20°26	17° 5	4°46	6°30	6° 2	1° 5	11°25	11°50	5° 8	14°48	16°11	24°38	n.a.	S 4
S 5	6 42 34	11°46'51	3♍53	18°52	6° 1	7°14	6°13	1°11	11°26	11°52	5° 8	14°46	16° 8	24°45	n.a.	S 5
M 6	6 46 31	12°47'42	16°52	20°39	7°15	7°59	6°25	1°17	11°27	11°54	5° 8	14°D45	16° 5	24°52	n.a.	M 6
T 7	6 50 28	13°48'32	29°28	22°26	8°30	8°44	6°36	1°23	11°28	11°56	5° 9	14°46	16° 1	24°59	n.a.	T 7
W 8	6 54 24	14°49'21	11♎45	24°14	9°44	9°29	6°47	1°29	11°28	11°58	5° 9	14°R47	15°58	25° 5	n.a.	W 8
T 9	6 58 21	15°50'09	23°48	26° 1	10°58	10°13	6°59	1°35	11°29	12° 0	5° 9	14°46	15°55	25°12	n.a.	T 9
F 10	7 2 17	16°50'55	5♏41	27°48	12°13	10°58	7°11	1°41	11°29	12° 2	5°10	14°44	15°52	25°19	n.a.	F 10
S 11	7 6 14	17°51'41	17°31	29°35	13°27	11°43	7°22	1°47	11°30	12° 4	5°10	14°40	15°49	25°25	n.a.	S 11
S 12	7 10 10	18°52'25	29°22	1♒21	14°41	12°28	7°34	1°53	11°30	12° 7	5°10	14°33	15°45	25°32	n.a.	S 12
M13	7 14 7	19°53'08	11♐17	3° 6	15°55	13°13	7°46	1°59	11°31	12° 9	5°11	14°24	15°42	25°39	n.a.	M13
T 14	7 18 3	20°53'50	23°20	4°49	17° 9	13°58	7°58	2° 6	11°31	12°11	5°11	14°14	15°39	25°46	n.a.	T 14
W15	7 22 0	21°54'30	5♉32	6°31	18°24	14°43	8°10	2°12	11°31	12°13	5°12	14° 3	15°36	25°52	n.a.	W15
T 16	7 25 57	22°55'09	17°55	8°11	19°38	15°28	8°22	2°18	11°31	12°15	5°12	13°53	15°33	25°59	n.a.	T 16
F 17	7 29 53	23°55'46	0♒28	9°48	20°52	16°13	8°34	2°25	11°31	12°17	5°13	13°45	15°30	26° 6	n.a.	F 17
S 18	7 33 50	24°56'22	13°13	11°22	22° 6	16°58	8°47	2°31	11°32	12°19	5°13	13°38	15°26	26°12	n.a.	S 18
S 19	7 37 46	25°56'56	26° 9	12°52	23°20	17°43	8°59	2°38	11°R32	12°22	5°14	13°34	15°23	26°19	n.a.	S 19
M20	7 41 43	26°57'28	9♓17	14°18	24°34	18°29	9°12	2°45	11°32	12°24	5°15	13°D33	15°20	26°26	n.a.	M20
T 21	7 45 39	27°57'58	22°36	15°39	25°48	19°14	9°24	2°51	11°31	12°26	5°15	13°33	15°17	26°33	n.a.	T 21
W22	7 49 36	28°58'26	6♈ 8	16°54	27° 1	19°59	9°37	2°58	11°31	12°28	5°16	13°34	15°14	26°39	n.a.	W22
T 23	7 53 32	29°58'52	19°53	18° 3	28°15	20°44	9°49	3° 5	11°31	12°31	5°17	13°36	15°11	26°46	n.a.	T 23
F 24	7 57 29	0♒59'16	3♉51	19° 5	29°29	21°29	10° 2	3°12	11°31	12°33	5°17	13°R36	15° 7	26°53	n.a.	F 24
S 25	8 1 26	1°59'37	18° 2	19°59	0♓43	22°15	10°15	3°18	11°30	12°35	5°18	13°35	15° 4	26°59	n.a.	S 25
S 26	8 5 22	2°59'57	2♊25	20°45	1°56	23° 0	10°28	3°25	11°30	12°37	5°19	13°32	15° 1	27° 6	n.a.	S 26
M27	8 9 19	4° 0'15	16°56	21°22	3°10	23°45	10°41	3°32	11°30	12°40	5°19	13°27	14°58	27°13	n.a.	M27
T 28	8 13 15	5° 0'31	1♋30	21°50	4°23	24°30	10°54	3°39	11°29	12°42	5°20	13°21	14°55	27°20	n.a.	T 28
W29	8 17 12	6° 0'44	16° 1	22° 9	5°37	25°16	11° 7	3°46	11°29	12°44	5°21	13°15	14°51	27°26	n.a.	W29
T 30	8 21 8	7° 0'56	0♌22	22°R18	6°50	26° 1	11°20	3°53	11°28	12°46	5°22	13°10	14°48	27°33	n.a.	T 30
F 31	8 25 5	8♒ 1'05	14♌27	22♒17	8♓ 4	26♐47	11♓33	4♓ 0	11♎28	12♒49	5♈22	13♍ 5	14♍45	27♏40	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	23 s29	18n50	4 s40	25 s12	2 s 2	21 s43	1 s36	21 s26	0 s12	10 s48	1 s18	13 s17	2 s 6	3 s58	0n38	18 s13	0 s47	13 s14	16 s43	5n54	5n27	14 s26			n.a.
T 2	23 25	17 53	4 2	25 1	2 1	21 26	1 36	21 35	0 13	10 44	1 18	13 14	2 6	3 58	0 38	18 12	0 47	13 14	16 42	5 58	5 28	14 27			n.a.
F 3	23 21	15 49	3 9	24 48	1 59	21 8	1 36	21 44	0 14	10 40	1 18	13 12	2 6	3 59	0 38	18 12	0 47	13 13	16 42	6 1	5 29	14 29			n.a.
S 4	23 16	12 51	2 6	24 33	1 57	20 50	1 36	21 53	0 15	10 36	1 17	13 10	2 6	3 59	0 38	18 11	0 47	13 13	16 41	6 3	5 31	14 30			n.a.
S 5	23 11	9 18	0 58	24 15	1 55	20 31	1 36	22 1	0 15	10 31	1 17	13 8	2 6	3 59	0 38	18 11	0 47	13 12	16 41	6 4	5 32	14 31			n.a.
M 6	23 5	5 25	0n11	23 56	1 52	20 12	1 35	22 9	0 16	10 27	1 17	13 6	2 6	4 0	0 38	18 10	0 47	13 12	16 41	6 4	5 33	14 32			n.a.
T 7	22 59	1 24	1 18	23 35	1 48	19 52	1 35	22 17	0 17	10 23	1 17	13 3	2 6	4 0	0 38	18 10	0 47	13 11	16 40	6 4	5 34	14 34			n.a.
W 8	22 52	2 s34	2 19	23 12	1 44	19 31	1 34	22 25	0 18	10 18	1 17	13 1	2 6	4 0	0 38	18 9	0 47	13 11	16 40	6 4	5 36	14 35			n.a.
T 9	22 45	6 21	3 13	22 48	1 38	19 10	1 34	22 32	0 18	10 14	1 17	12 59	2 5	4 0	0 38	18 8	0 47	13 10	16 40	6 4	5 37	14 36			n.a.
F 10	22 38	9 50	3 58	22 21	1 33	18 49	1 33	22 39	0 19	10 9	1 16	12 57	2 5	4 1	0 38	18 8	0 47	13 10	16 39	6 5	5 38	14 38			n.a.
S 11	22 30	12 54	4 32	21 52	1 26	18 27	1 32	22 46	0 20	10 5	1 16	12 54	2 5	4 1	0 38	18 7	0 47	13 10	16 39	6 6	5 39	14 39			n.a.
S 12	22 22	15 27	4 55	21 22	1 19	18 4	1 32	22 53	0 21	10 0	1 16	12 52	2 5	4 1	0 38	18 7	0 47	13 9	16 39	6 9	5 41	14 40			n.a.
M13	22 13	17 21	5 5	20 50	1 11	17 41	1 31	23 0	0 22	9 55	1 16	12 50	2 5	4 1	0 38	18 6	0 47	13 9	16 38	6 12	5 42	14 41			n.a.
T 14	22 4	18 31	5 1	20 17	1 2	17 17	1 30	23 6	0 22	9 51	1 16	12 47	2 5	4 1	0 38	18 5	0 47	13 8	16 38	6 16	5 43	14 43			n.a.
W15	21 54	18 51	4 44	19 42	0 53	16 53	1 29	23 12	0 23	9 46	1 16	12 45	2 5	4 1	0 38	18 5	0 47	13 8	16 38	6 21	5 44	14 44			n.a.
T 16	21 44	18 18	4 14	19 7	0 43	16 29	1 28	23 18	0 24	9 41	1 15	12 42	2 5	4 1	0 38	18 4	0 47	13 7	16 37	6 24	5 46	14 45			n.a.
F 17	21 34	16 51	3 30	18 30	0 32	16 4	1 26	23 24	0 25	9 36	1 15	12 40	2 5	4 1	0 38	18 4	0 47	13 6	16 37	6 28	5 47	14 46			n.a.
S 18	21 23	14 33	2 36	17 53	0 20	15 38	1 25	23 29	0 25	9 32	1 15	12 37	2 5	4 1	0 38	18 3	0 47	13 6	16 37	6 30	5 48	14 48			n.a.
S 19	21 12	11 29	1 32	17 15	0 7	15 13	1 24	23 34	0 26	9 27	1 15	12 35	2 5	4 1	0 38	18 2	0 47	13 5	16 36	6 32	5 49	14 49			n.a.
M20	21 0	7 49	0 23	16 37	0n 6	14 46	1 22	23 39	0 27	9 22	1 15	12 32	2 4	4 1	0 38	18 2	0 47	13 5	16 36	6 32	5 51	14 50			n.a.
T 21	20 48	3 43	0 s49	16 0	0 20	14 20	1 21	23 44	0 28	9 17	1 15	12 30	2 4	4 1	0 38	18 1	0 47	13 4	16 36	6 32	5 52	14 52			n.a.
W22	20 36	0n39	1 59	15 24	0 35	13 53	1 19	23 48	0 29	9 12	1 15	12 27	2 4	4 1	0 39	18 0	0 47	13 4	16 35	6 32	5 53	14 53			n.a.
T 23	20 23	5 2	3 4	14 48	0 50	13 26	1 18	23 52	0 29	9 7	1 14	12 25	2 4	4 1	0 39	18 0	0 47	13 3	16 35	6 31	5 54	14 54			n.a.
F 24	20 10	9 12	3 59	14 14	1 5	12 58	1 16	23 56	0 30	9 2	1 14	12 22	2 4	4 1	0 39	17 59	0 47	13 3	16 35	6 31	5 56	14 55			n.a.
S 25	19 56	12 55	4 40	13 42	1 21	12 30	1 14	24 0	0 31	8 57	1 14	12 20	2 4	4 1	0 39	17 59	0 47	13 2	16 34	6 32	5 57	14 57			n.a.
S 26	19 42	15 54	5 4	13 13	1 36	12 2	1 13	24 3	0 32	8 52	1 14	12 17	2 4	4 0	0 39	17 58	0 47	13 1	16 34	6 33	5 58	14 58			n.a.
M27	19 28	17 56	5 9	12 46	1 52	11 33	1 11	24 6	0 33	8 47	1 14	12 15	2 4	4 0	0 39	17 57	0 47	13 1	16 34	6 35	5 59	14 59			n.a.
T 28	19 14	18 47	4 55	12 22	2 8	11 4	1 9	24 9	0 33	8 42	1 14	12 12	2 4	4 0	0 39	17 57	0 47	13 0	16 33	6 37	6 0	15 0			n.a.
W29	18 59	18 25	4 21	12 2	2 23	10 35	1 7	24 11	0 34	8 37	1 14	12 9	2 4	4 0	0 39	17 56	0 47	13 0	16 33	6 39	6 2	15 2			n.a.
T 30	18 44	16 52	3 31	11 45	2 38	10 6	1 5	24 14	0 35	8 32	1 14	12 7	2 4	4 0	0 39	17 55	0 47	12 59	16 33	6 41	6 3	15 3			n.a.
F 31	18 s28	14n18	2 s29	11 s32	2n52	9 s36	1 s 3	24 s16	0 s36	8 s26	1 s14	12 s 4	2 s 4	3 s59	0n39	17 s55	0 s47	12 s59	16 s32	6n43	6n 4	15 s 4			n.a.

Julian Day Number = 1675766.5, Delta T = 03h18m08s
Ecliptic obliquity = 23°42'27, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'31, Lahiri = - 5°40'31 Julian Calendar 1 Jan. 125 BCE == Greg. Calendar 29 Dec. 126 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

FEBRUARY 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 1	9♒ 1'13	28♌13	22°R 7	9♓17	27♐32	11♓47	4♓ 7	11°R27	12♒51	5♈23	13°R 3	14♍42	27♏46	n.a.	S 1
S 2	8 32 58	10° 1'19	11♍36	21♒48	10°30	28°17	12° 0	4°14	11♎26	12°53	5°24	13°D 2	14°39	27°53	n.a.	S 2
M 3	8 36 55	11° 1'23	24°36	21°20	11°43	29° 3	12°13	4°22	11°25	12°55	5°25	13♍ 2	14°36	28° 0	n.a.	M 3
T 4	8 40 51	12° 1'25	7♎15	20°44	12°57	29°48	12°27	4°29	11°25	12°58	5°26	13° 4	14°32	28° 7	n.a.	T 4
W 5	8 44 48	13° 1'26	19°35	20° 1	14°10	0♑34	12°40	4°36	11°24	13° 0	5°27	13° 6	14°29	28°13	n.a.	W 5
T 6	8 48 44	14° 1'24	1♏42	19°12	15°23	1°19	12°54	4°43	11°23	13° 2	5°28	13° 7	14°26	28°20	n.a.	T 6
F 7	8 52 41	15° 1'21	13°39	18°19	16°36	2° 5	13° 7	4°50	11°22	13° 4	5°29	13°R 8	14°23	28°27	n.a.	F 7
S 8	8 56 37	16° 1'16	25°31	17°22	17°49	2°51	13°21	4°58	11°21	13° 7	5°30	13° 7	14°20	28°33	n.a.	S 8
S 9	9 0 34	17° 1'10	7♐24	16°23	19° 1	3°36	13°34	5° 5	11°20	13° 9	5°31	13° 6	14°17	28°40	n.a.	S 9
M10	9 4 30	18° 1'02	19°21	15°24	20°14	4°22	13°48	5°12	11°18	13°11	5°31	13° 3	14°13	28°47	n.a.	M10
T 11	9 8 27	19° 0'52	1♑27	14°25	21°27	5° 7	14° 2	5°20	11°17	13°14	5°32	12°59	14°10	28°54	n.a.	T 11
W12	9 12 24	20° 0'40	13°45	13°28	22°40	5°53	14°16	5°27	11°16	13°16	5°33	12°55	14° 7	29° 0	n.a.	W12
T 13	9 16 20	21° 0'26	26°18	12°34	23°52	6°39	14°30	5°35	11°15	13°18	5°35	12°52	14° 4	29° 7	n.a.	T 13
F 14	9 20 17	22° 0'10	9♒ 6	11°44	25° 5	7°24	14°43	5°42	11°13	13°20	5°36	12°49	14° 1	29°14	n.a.	F 14
S 15	9 24 13	22°59'52	22° 9	10°59	26°17	8°10	14°57	5°50	11°12	13°23	5°37	12°47	13°57	29°21	n.a.	S 15
S 16	9 28 10	23°59'32	5♓28	10°19	27°29	8°56	15°11	5°57	11°11	13°25	5°38	12°45	13°54	29°27	n.a.	S 16
M17	9 32 6	24°59'10	19° 1	9°45	28°42	9°41	15°25	6° 4	11° 9	13°27	5°39	12°D45	13°51	29°34	n.a.	M17
T 18	9 36 3	25°58'45	2♈45	9°17	29°54	10°27	15°39	6°12	11° 8	13°29	5°40	12°46	13°48	29°41	n.a.	T 18
W19	9 39 59	26°58'18	16°40	8°55	1♈ 6	11°13	15°53	6°19	11° 6	13°32	5°41	12°47	13°45	29°47	n.a.	W19
T 20	9 43 56	27°57'49	0♉42	8°39	2°18	11°59	16° 7	6°27	11° 5	13°34	5°42	12°48	13°42	29°54	n.a.	T 20
F 21	9 47 52	28°57'17	14°50	8°29	3°30	12°44	16°21	6°35	11° 3	13°36	5°43	12°49	13°38	0♐ 1	n.a.	F 21
S 22	9 51 49	29°56'43	29° 1	8°D26	4°42	13°30	16°36	6°42	11° 1	13°38	5°44	12°R50	13°35	0° 8	n.a.	S 22
S 23	9 55 46	0♓56'07	13♊14	8°28	5°54	14°16	16°50	6°50	11° 0	13°40	5°45	12°49	13°32	0°14	n.a.	S 23
M24	9 59 42	1°55'28	27°26	8°36	7° 6	15° 1	17° 4	6°57	10°58	13°43	5°47	12°49	13°29	0°21	n.a.	M24
T 25	10 3 39	2°54'47	11♋34	8°49	8°17	15°47	17°18	7° 5	10°56	13°45	5°48	12°48	13°26	0°28	n.a.	T 25
W26	10 7 35	3°54'03	25°35	9° 7	9°29	16°33	17°32	7°12	10°54	13°47	5°49	12°46	13°23	0°34	n.a.	W26
T 27	10 11 32	4°53'17	9♌27	9°30	10°40	17°19	17°47	7°20	10°52	13°49	5°50	12°45	13°19	0°41	n.a.	T 27
F 28	10 15 28	5°52'29	23° 6	9°58	11°52	18° 5	18° 1	7°28	10°50	13°51	5°51	12°45	13°16	0°48	n.a.	F 28
S 29	10 19 25	6♓51'39	6♍30	10♒31	13♈ 3	18♑50	18♓15	7♓35	10♎49	13♒53	5♈53	12°D44	13♍13	0♐55	n.a.	S 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s12	10n59	1s20	11s23	3n 4	9s 6	1s 0	24s18	0s36	8s21	1s13	12s 1	2s 4	3s59	0n39	17s54	0s47	12s58	16s32	6n44	6n 5	15s 5		n.a.
S 2	17 56	7 10	0 8	11 18	3 16	8 36	0 58	24 19	0 37	8 16	1 13	11 59	2 4	3 59	0 39	17 53	0 47	12 57	16 32	6 44	6 7	15 6		n.a.
M 3	17 40	3 8	1n 3	11 18	3 26	8 6	0 56	24 20	0 38	8 11	1 13	11 56	2 4	3 58	0 39	17 53	0 47	12 57	16 31	6 44	6 8	15 8		n.a.
T 4	17 23	0s56	2 9	11 21	3 35	7 36	0 53	24 21	0 39	8 5	1 13	11 53	2 4	3 58	0 39	17 52	0 47	12 56	16 31	6 44	6 9	15 9		n.a.
W 5	17 6	4 52	3 7	11 28	3 42	7 5	0 51	24 22	0 40	8 0	1 13	11 51	2 3	3 58	0 39	17 51	0 47	12 56	16 31	6 43	6 10	15 10		n.a.
T 6	16 48	8 31	3 56	11 39	3 46	6 34	0 48	24 23	0 40	7 55	1 13	11 48	2 3	3 57	0 39	17 51	0 47	12 55	16 31	6 42	6 12	15 11		n.a.
F 7	16 31	11 46	4 33	11 53	3 49	6 3	0 46	24 23	0 41	7 49	1 13	11 45	2 3	3 57	0 39	17 50	0 47	12 54	16 30	6 42	6 13	15 13		n.a.
S 8	16 13	14 31	4 59	12 9	3 50	5 32	0 43	24 23	0 42	7 44	1 13	11 42	2 3	3 56	0 39	17 50	0 47	12 54	16 30	6 42	6 14	15 14		n.a.
S 9	15 55	16 39	5 12	12 28	3 48	5 1	0 41	24 22	0 43	7 39	1 13	11 40	2 3	3 56	0 39	17 49	0 47	12 53	16 30	6 43	6 15	15 15		n.a.
M10	15 36	18 6	5 12	12 49	3 45	4 29	0 38	24 22	0 44	7 33	1 13	11 37	2 3	3 55	0 39	17 48	0 47	12 52	16 29	6 44	6 17	15 16		n.a.
T 11	15 17	18 44	4 58	13 11	3 40	3 58	0 35	24 21	0 44	7 28	1 12	11 34	2 3	3 55	0 39	17 48	0 47	12 52	16 29	6 45	6 18	15 17		n.a.
W12	14 58	18 31	4 30	13 34	3 32	3 26	0 32	24 20	0 45	7 22	1 12	11 31	2 3	3 54	0 39	17 47	0 47	12 51	16 29	6 47	6 19	15 19		n.a.
T 13	14 39	17 23	3 48	13 58	3 24	2 55	0 29	24 18	0 46	7 17	1 12	11 29	2 3	3 54	0 39	17 46	0 47	12 51	16 29	6 48	6 20	15 20		n.a.
F 14	14 20	15 22	2 55	14 22	3 13	2 23	0 26	24 17	0 47	7 11	1 12	11 26	2 3	3 53	0 39	17 46	0 47	12 50	16 28	6 49	6 22	15 21		n.a.
S 15	14 0	12 32	1 51	14 45	3 2	1 51	0 23	24 15	0 48	7 6	1 12	11 23	2 3	3 53	0 39	17 45	0 48	12 49	16 28	6 50	6 23	15 22		n.a.
S 16	13 40	8 59	0 40	15 8	2 50	1 19	0 20	24 13	0 48	7 0	1 12	11 20	2 3	3 52	0 39	17 44	0 48	12 49	16 28	6 51	6 24	15 24		n.a.
M17	13 20	4 55	0s34	15 30	2 37	0 47	0 17	24 10	0 49	6 55	1 12	11 17	2 3	3 52	0 39	17 44	0 48	12 48	16 28	6 51	6 25	15 25		n.a.
T 18	13 0	0 33	1 48	15 50	2 23	0 15	0 14	24 7	0 50	6 49	1 12	11 15	2 3	3 51	0 39	17 43	0 48	12 47	16 27	6 50	6 26	15 26		n.a.
W19	12 40	3n54	2 57	16 10	2 9	0n16	0 11	24 4	0 51	6 44	1 12	11 12	2 3	3 50	0 39	17 42	0 48	12 47	16 27	6 50	6 28	15 27		n.a.
T 20	12 19	8 11	3 55	16 28	1 54	0 48	0 8	24 1	0 52	6 38	1 12	11 9	2 3	3 50	0 39	17 42	0 48	12 46	16 27	6 50	6 29	15 28		n.a.
F 21	11 58	12 1	4 40	16 44	1 40	1 20	0 5	23 58	0 52	6 32	1 12	11 6	2 3	3 49	0 39	17 41	0 48	12 45	16 27	6 49	6 30	15 30		n.a.
S 22	11 37	15 10	5 7	16 59	1 25	1 52	0 2	23 54	0 53	6 27	1 12	11 3	2 3	3 48	0 39	17 41	0 48	12 45	16 27	6 49	6 31	15 31		n.a.
S 23	11 16	17 25	5 16	17 13	1 11	2 24	0n 2	23 50	0 54	6 21	1 12	11 0	2 3	3 48	0 39	17 40	0 48	12 44	16 26	6 49	6 33	15 32		n.a.
M24	10 54	18 35	5 6	17 24	0 57	2 55	0 5	23 46	0 55	6 16	1 12	10 58	2 3	3 47	0 39	17 39	0 48	12 43	16 26	6 49	6 34	15 33		n.a.
T 25	10 33	18 35	4 38	17 34	0 43	3 27	0 8	23 41	0 56	6 10	1 11	10 55	2 3	3 46	0 39	17 39	0 48	12 43	16 26	6 50	6 35	15 34		n.a.
W26	10 11	17 27	3 52	17 42	0 29	3 59	0 12	23 36	0 56	6 4	1 11	10 52	2 3	3 46	0 39	17 38	0 48	12 42	16 26	6 50	6 36	15 35		n.a.
T 27	9 49	15 17	2 54	17 49	0 16	4 30	0 15	23 31	0 57	5 59	1 11	10 49	2 3	3 45	0 39	17 38	0 48	12 41	16 26	6 51	6 38	15 37		n.a.
F 28	9 28	12 17	1 47	17 54	0 3	5 2	0 19	23 26	0 58	5 53	1 11	10 46	2 3	3 44	0 39	17 37	0 48	12 41	16 25	6 51	6 39	15 38		n.a.
S 29	9s 5	8n41	0s35	17s57	0s 9	5n33	0n22	23s20	0s59	5s47	1s11	10s43	2s 3	3s43	0n39	17s36	0s48	12s40	16s25	6n51	6n40	15s39		n.a.

Julian Day Number = 1675797.5, Delta T = 03h18m07s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'27, Lahiri = - 5°40'26 Julian Calendar 1 Feb. 125 BCE == Greg. Calendar 29 Jan. 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

MARCH 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 23 21	7♓50'46	19♍38	11♒ 7	14♈14	19♉36	18♓29	7♓43	10°R47	13♒56	5♈54	12♍44	13♍10	1♐ 1	n.a.	S 1
M 2	10 27 18	8°49'51	2♎29	11°48	15°25	20°22	18°44	7°50	10♎45	13°58	5°55	12°45	13° 7	1° 8	n.a.	M 2
T 3	10 31 15	9°48'54	15° 3	12°32	16°36	21° 8	18°58	7°58	10°43	14° 0	5°56	12°45	13° 3	1°15	n.a.	T 3
W 4	10 35 11	10°47'55	27°22	13°20	17°47	21°54	19°12	8° 5	10°40	14° 2	5°58	12°45	13° 0	1°21	n.a.	W 4
T 5	10 39 8	11°46'55	9♏30	14°11	18°58	22°39	19°27	8°13	10°38	14° 4	5°59	12°45	12°57	1°28	n.a.	T 5
F 6	10 43 4	12°45'52	21°28	15° 5	20° 9	23°25	19°41	8°21	10°36	14° 6	6° 0	12°R45	12°54	1°35	n.a.	F 6
S 7	10 47 1	13°44'48	3♐22	16° 2	21°19	24°11	19°55	8°28	10°34	14° 8	6° 1	12°45	12°51	1°42	n.a.	S 7
S 8	10 50 57	14°43'41	15°16	17° 2	22°30	24°57	20°10	8°36	10°32	14°10	6° 3	12°D45	12°48	1°48	n.a.	S 8
M 9	10 54 54	15°42'33	27°13	18° 5	23°40	25°43	20°24	8°43	10°30	14°12	6° 4	12°46	12°44	1°55	n.a.	M 9
T 10	10 58 50	16°41'23	9♑20	19°10	24°51	26°28	20°39	8°51	10°28	14°14	6° 5	12°46	12°41	2° 2	n.a.	T 10
W11	11 2 47	17°40'12	21°39	20°18	26° 1	27°14	20°53	8°58	10°25	14°16	6° 7	12°46	12°38	2° 9	n.a.	W11
T 12	11 6 43	18°38'58	4♒16	21°28	27°11	28° 0	21° 7	9° 6	10°23	14°18	6° 8	12°47	12°35	2°15	n.a.	T 12
F 13	11 10 40	19°37'42	17°12	22°40	28°21	28°46	21°22	9°13	10°21	14°20	6° 9	12°47	12°32	2°22	n.a.	F 13
S 14	11 14 37	20°36'25	0♓29	23°55	29°31	29°32	21°36	9°21	10°18	14°22	6°11	12°48	12°28	2°29	n.a.	S 14
S 15	11 18 33	21°35'05	14° 6	25°12	0♉41	0♒17	21°51	9°28	10°16	14°24	6°12	12°R48	12°25	2°35	n.a.	S 15
M16	11 22 30	22°33'44	28° 3	26°31	1°50	1° 3	22° 5	9°36	10°14	14°26	6°13	12°48	12°22	2°42	n.a.	M16
T 17	11 26 26	23°32'20	12♈15	27°51	3° 0	1°49	22°19	9°43	10°11	14°28	6°15	12°47	12°19	2°49	n.a.	T 17
W18	11 30 23	24°30'55	26°38	29°14	4° 9	2°35	22°34	9°51	10° 9	14°29	6°16	12°46	12°16	2°56	n.a.	W18
T 19	11 34 19	25°29'27	11♉ 7	0♓39	5°18	3°20	22°48	9°58	10° 6	14°31	6°17	12°44	12°13	3° 2	n.a.	T 19
F 20	11 38 16	26°27'57	25°36	2° 5	6°27	4° 6	23° 3	10° 6	10° 4	14°33	6°19	12°43	12° 9	3° 9	n.a.	F 20
S 21	11 42 12	27°26'25	10♊ 0	3°34	7°36	4°52	23°17	10°13	10° 2	14°35	6°20	12°41	12° 6	3°16	n.a.	S 21
S 22	11 46 9	28°24'50	24°15	5° 4	8°45	5°38	23°31	10°20	9°59	14°37	6°21	12°D41	12° 3	3°22	n.a.	S 22
M23	11 50 6	29°23'14	8♋20	6°36	9°54	6°23	23°46	10°28	9°57	14°38	6°23	12°41	12° 0	3°29	n.a.	M23
T 24	11 54 2	0♈21'35	22°13	8° 9	11° 3	7° 9	24° 0	10°35	9°54	14°40	6°24	12°42	11°57	3°36	n.a.	T 24
W25	11 57 59	1°19'54	5♌52	9°45	12°11	7°55	24°14	10°42	9°52	14°42	6°26	12°43	11°54	3°43	n.a.	W25
T 26	12 1 55	2°18'10	19°18	11°22	13°19	8°40	24°29	10°49	9°49	14°44	6°27	12°44	11°50	3°49	n.a.	T 26
F 27	12 5 52	3°16'25	2♍30	13° 1	14°27	9°26	24°43	10°57	9°47	14°45	6°28	12°45	11°47	3°56	n.a.	F 27
S 28	12 9 48	4°14'37	15°30	14°42	15°35	10°11	24°57	11° 4	9°44	14°47	6°30	12°R46	11°44	4° 3	n.a.	S 28
S 29	12 13 45	5°12'48	28°18	16°24	16°43	10°57	25°12	11°11	9°42	14°48	6°31	12°45	11°41	4°10	n.a.	S 29
M30	12 17 41	6°10'56	10♎53	18° 9	17°51	11°43	25°26	11°18	9°39	14°50	6°32	12°43	11°38	4°16	n.a.	M30
T 31	12 21 38	7♈ 9'03	23♎16	19♓55	18♉58	12♒28	25♓40	11♓25	9♎36	14♒52	6♈34	12♍40	11♍34	4♐23	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	8s43	4n44	0n38	17s58	0s21	6n 4	0n25	23s14	1s 0	5s42	1s11	10s41	2s 3	3s42	0n39	17s36	0s48	12s40	16s25	6n51	6n41	15s40			n.a.
M 2	8 21	0 39	1 47	17 57	0 32	6 35	0 29	23 8	1 0	5 36	1 11	10 38	2 3	3 42	0 39	17 35	0 48	12 39	16 25	6 51	6 43	15 41			n.a.
T 3	7 58	3s23	2 50	17 55	0 43	7 6	0 32	23 2	1 1	5 30	1 11	10 35	2 4	3 41	0 39	17 35	0 48	12 38	16 25	6 51	6 44	15 43			n.a.
W 4	7 36	7 11	3 43	17 52	0 53	7 36	0 36	22 55	1 2	5 24	1 11	10 32	2 4	3 40	0 39	17 34	0 48	12 38	16 25	6 51	6 45	15 44			n.a.
T 5	7 13	10 37	4 25	17 46	1 3	8 7	0 39	22 49	1 3	5 19	1 11	10 29	2 4	3 39	0 39	17 33	0 48	12 37	16 24	6 51	6 46	15 45			n.a.
F 6	6 51	13 35	4 56	17 39	1 13	8 37	0 43	22 42	1 3	5 13	1 11	10 26	2 4	3 38	0 39	17 33	0 48	12 36	16 24	6 51	6 47	15 46			n.a.
S 7	6 28	15 57	5 13	17 30	1 22	9 7	0 46	22 34	1 4	5 7	1 11	10 24	2 4	3 37	0 40	17 32	0 48	12 36	16 24	6 51	6 49	15 47			n.a.
S 8	6 5	17 38	5 17	17 20	1 30	9 37	0 50	22 27	1 5	5 1	1 11	10 21	2 4	3 37	0 40	17 32	0 48	12 35	16 24	6 51	6 50	15 48			n.a.
M 9	5 42	18 34	5 7	17 8	1 38	10 7	0 53	22 19	1 6	4 56	1 11	10 18	2 4	3 36	0 40	17 31	0 48	12 34	16 24	6 51	6 51	15 49			n.a.
T 10	5 19	18 39	4 44	16 54	1 45	10 36	0 57	22 11	1 6	4 50	1 11	10 15	2 4	3 35	0 40	17 30	0 48	12 34	16 24	6 51	6 52	15 51			n.a.
W11	4 56	17 53	4 7	16 39	1 52	11 6	1 0	22 3	1 7	4 44	1 11	10 12	2 4	3 34	0 40	17 30	0 48	12 33	16 24	6 50	6 54	15 52			n.a.
T 12	4 32	16 12	3 18	16 22	1 58	11 35	1 4	21 54	1 8	4 38	1 11	10 10	2 4	3 33	0 40	17 29	0 48	12 33	16 23	6 50	6 55	15 53			n.a.
F 13	4 9	13 41	2 17	16 3	2 3	12 3	1 8	21 46	1 9	4 33	1 11	10 7	2 4	3 32	0 40	17 29	0 48	12 32	16 23	6 50	6 56	15 54			n.a.
S 14	3 46	10 22	1 8	15 43	2 9	12 32	1 11	21 37	1 9	4 27	1 11	10 4	2 4	3 31	0 40	17 28	0 48	12 31	16 23	6 50	6 57	15 55			n.a.
S 15	3 22	6 26	0s 7	15 21	2 13	13 0	1 15	21 27	1 10	4 21	1 11	10 1	2 4	3 30	0 40	17 28	0 48	12 31	16 23	6 50	6 58	15 56			n.a.
M16	2 59	2 4	1 23	14 58	2 17	13 28	1 18	21 18	1 11	4 15	1 11	9 58	2 4	3 29	0 40	17 27	0 48	12 30	16 23	6 50	7 0	15 58			n.a.
T 17	2 36	2n30	2 36	14 33	2 21	13 55	1 21	21 9	1 12	4 10	1 11	9 56	2 4	3 28	0 40	17 27	0 48	12 29	16 23	6 50	7 1	15 59			n.a.
W18	2 12	6 59	3 39	14 6	2 24	14 22	1 25	20 59	1 12	4 4	1 11	9 53	2 4	3 27	0 40	17 26	0 48	12 29	16 23	6 51	7 2	16 0			n.a.
T 19	1 49	11 4	4 29	13 38	2 26	14 49	1 28	20 49	1 13	3 58	1 11	9 50	2 5	3 26	0 40	17 26	0 48	12 28	16 23	6 51	7 3	16 1			n.a.
F 20	1 25	14 29	5 2	13 9	2 28	15 16	1 32	20 39	1 14	3 52	1 11	9 47	2 5	3 25	0 40	17 25	0 48	12 28	16 23	6 52	7 5	16 2			n.a.
S 21	1 2	17 0	5 16	12 38	2 29	15 42	1 35	20 28	1 15	3 47	1 11	9 45	2 5	3 24	0 40	17 25	0 48	12 27	16 23	6 52	7 6	16 3			n.a.
S 22	0 38	18 26	5 10	12 5	2 30	16 8	1 38	20 18	1 15	3 41	1 11	9 42	2 5	3 23	0 40	17 24	0 48	12 26	16 23	6 52	7 7	16 4			n.a.
M23	0 15	18 42	4 45	11 31	2 31	16 33	1 42	20 7	1 16	3 35	1 11	9 39	2 5	3 22	0 40	17 24	0 48	12 26	16 22	6 52	7 8	16 5			n.a.
T 24	0n 9	17 50	4 4	10 55	2 30	16 58	1 45	19 56	1 17	3 29	1 11	9 36	2 5	3 22	0 40	17 23	0 48	12 25	16 22	6 52	7 10	16 7			n.a.
W25	0 32	15 57	3 10	10 18	2 30	17 23	1 48	19 44	1 17	3 24	1 11	9 34	2 5	3 21	0 40	17 23	0 48	12 25	16 22	6 52	7 11	16 8			n.a.
T 26	0 56	13 13	2 6	9 40	2 28	17 47	1 52	19 33	1 18	3 18	1 11	9 31	2 5	3 20	0 40	17 22	0 48	12 24	16 22	6 51	7 12	16 9			n.a.
F 27	1 19	9 49	0 56	9 0	2 26	18 11	1 55	19 22	1 19	3 12	1 11	9 28	2 5	3 19	0 40	17 22	0 48	12 23	16 22	6 51	7 13	16 10			n.a.
S 28	1 42	6 0	0n15	8 18	2 24	18 34	1 58	19 10	1 20	3 7	1 11	9 26	2 5	3 18	0 40	17 21	0 48	12 23	16 22	6 51	7 14	16 11			n.a.
S 29	2 6	1 58	1 24	7 35	2 21	18 57	2 1	18 58	1 20	3 1	1 11	9 23	2 6	3 17	0 40	17 21	0 49	12 22	16 22	6 51	7 16	16 12			n.a.
M30	2 29	2s 5	2 29	6 51	2 18	19 19	2 4	18 46	1 21	2 55	1 11	9 20	2 6	3 16	0 40	17 20	0 49	12 22	16 22	6 52	7 17	16 13			n.a.
T 31	2n52	5s59	3n24	6s 5	2s14	19n41	2n 7	18s33	1s22	2s49	1s11	9s18	2s 6	3s15	0n40	17s20	0s49	12s21	16s22	6n53	7n18	16s14			n.a.

Julian Day Number = 1675826.5, Delta T = 03h18m06s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'23, Lahiri = - 5°40'22 Julian Calendar 1 March 125 BCE == Greg. Calendar 27 Feb. 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

APRIL 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 25 34	8♈ 7'08	5♏29	21♓43	20♉ 6	13♒14	25♓54	11♓32	9°R34	14♒53	6♈35	12°R36	11♍31	4♐30	n.a.	W 1
T 2	12 29 31	9° 5'12	17°33	23°32	21°13	13°59	26° 9	11°39	9♎31	14°55	6°37	12♍32	11°28	4°36	n.a.	T 2
F 3	12 33 28	10° 3'14	29°31	25°24	22°20	14°45	26°23	11°46	9°29	14°56	6°38	12°27	11°25	4°43	n.a.	F 3
S 4	12 37 24	11° 1'14	11♐24	27°17	23°27	15°30	26°37	11°53	9°26	14°58	6°39	12°23	11°22	4°50	n.a.	S 4
S 5	12 41 21	11°59'13	23°17	29°12	24°33	16°16	26°51	12° 0	9°24	14°59	6°41	12°21	11°19	4°57	n.a.	S 5
M 6	12 45 17	12°57'11	5♑14	1♈ 9	25°40	17° 1	27° 5	12° 7	9°21	15° 0	6°42	12°19	11°15	5° 3	n.a.	M 6
T 7	12 49 14	13°55'07	17°18	3° 7	26°46	17°46	27°19	12°14	9°19	15° 2	6°43	12°D19	11°12	5°10	n.a.	T 7
W 8	12 53 10	14°53'01	29°36	5° 7	27°52	18°32	27°33	12°21	9°16	15° 3	6°45	12°20	11° 9	5°17	n.a.	W 8
T 9	12 57 7	15°50'55	12♒11	7° 9	28°58	19°17	27°47	12°28	9°14	15° 5	6°46	12°21	11° 6	5°23	n.a.	T 9
F 10	13 1 3	16°48'47	25° 8	9°12	0♊ 3	20° 2	28° 1	12°35	9°11	15° 6	6°48	12°23	11° 3	5°30	n.a.	F 10
S 11	13 5 0	17°46'37	8♓29	11°17	1° 9	20°48	28°15	12°41	9° 9	15° 7	6°49	12°R24	10°59	5°37	n.a.	S 11
S 12	13 8 57	18°44'26	22°16	13°24	2°14	21°33	28°29	12°48	9° 6	15° 8	6°50	12°23	10°56	5°44	n.a.	S 12
M13	13 12 53	19°42'14	6♈28	15°31	3°19	22°18	28°43	12°55	9° 4	15°10	6°52	12°21	10°53	5°50	n.a.	M13
T 14	13 16 50	20°40'00	21° 1	17°40	4°24	23° 3	28°57	13° 1	9° 1	15°11	6°53	12°18	10°50	5°57	n.a.	T 14
W15	13 20 46	21°37'45	5♉49	19°50	5°28	23°49	29°11	13° 8	8°59	15°12	6°54	12°12	10°47	6° 4	n.a.	W15
T 16	13 24 43	22°35'28	20°44	22° 0	6°33	24°34	29°25	13°14	8°56	15°13	6°56	12° 7	10°44	6°11	n.a.	T 16
F 17	13 28 39	23°33'10	5♊38	24°11	7°37	25°19	29°38	13°21	8°54	15°14	6°57	12° 1	10°40	6°17	n.a.	F 17
S 18	13 32 36	24°30'50	20°22	26°22	8°41	26° 4	29°52	13°27	8°51	15°15	6°58	11°56	10°37	6°24	n.a.	S 18
S 19	13 36 32	25°28'29	4♋51	28°33	9°44	26°49	0♈ 6	13°33	8°49	15°16	7° 0	11°52	10°34	6°31	n.a.	S 19
M20	13 40 29	26°26'06	19° 0	0♌44	10°48	27°34	0°19	13°39	8°47	15°17	7° 1	11°50	10°31	6°37	n.a.	M20
T 21	13 44 26	27°23'41	2♌48	2°54	11°51	28°19	0°33	13°46	8°44	15°18	7° 2	11°D50	10°28	6°44	n.a.	T 21
W22	13 48 22	28°21'15	16°16	5° 3	12°53	29° 3	0°46	13°52	8°42	15°19	7° 4	11°51	10°25	6°51	n.a.	W22
T 23	13 52 19	29°18'47	29°26	7°11	13°56	29°48	1° 0	13°58	8°39	15°20	7° 5	11°52	10°21	6°58	n.a.	T 23
F 24	13 56 15	0♉16'17	12♍20	9°18	14°58	0♓33	1°13	14° 4	8°37	15°21	7° 6	11°R53	10°18	7° 4	n.a.	F 24
S 25	14 0 12	1°13'46	25° 0	11°24	16° 0	1°18	1°27	14°10	8°35	15°22	7° 7	11°52	10°15	7°11	n.a.	S 25
S 26	14 4 8	2°11'14	7♎29	13°27	17° 2	2° 2	1°40	14°16	8°33	15°23	7° 9	11°49	10°12	7°18	n.a.	S 26
M27	14 8 5	3° 8'40	19°49	15°28	18° 3	2°47	1°53	14°22	8°30	15°24	7°10	11°44	10° 9	7°25	n.a.	M27
T 28	14 12 1	4° 6'05	2♏ 0	17°28	19° 4	3°32	2° 7	14°28	8°28	15°25	7°11	11°37	10° 5	7°31	n.a.	T 28
W29	14 15 58	5° 3'29	14° 4	19°25	20° 4	4°16	2°20	14°33	8°26	15°25	7°12	11°27	10° 2	7°38	n.a.	W29
T 30	14 19 54	6♉ 0'52	26♏ 3	21♉19	21♊ 4	5♓ 1	2♈33	14♓39	8♎24	15♒26	7♈14	11♍17	9♍59	7♐45	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n15	9s34	4n10	5s18	2s 9	20n 3	2n10	18s21	1s22	2s44	1s11	9s15	2s 6	3s14	0n40	17s20	0s49	12s21	16s22	6n54	7n19	16s15		n.a.
T 2	3 38	12 43	4 44	4 29	2 4	20 24	2 13	18 8	1 23	2 38	1 11	9 12	2 6	3 13	0 40	17 19	0 49	12 20	16 22	6 56	7 21	16 17		n.a.
F 3	4 2	15 18	5 5	3 39	1 58	20 44	2 16	17 55	1 24	2 32	1 11	9 10	2 6	3 12	0 40	17 19	0 49	12 20	16 22	6 58	7 22	16 18		n.a.
S 4	4 24	17 14	5 13	2 48	1 52	21 4	2 18	17 42	1 24	2 27	1 11	9 7	2 6	3 10	0 40	17 18	0 49	12 19	16 22	6 59	7 23	16 19		n.a.
S 5	4 47	18 25	5 7	1 56	1 46	21 24	2 21	17 29	1 25	2 21	1 11	9 5	2 6	3 9	0 40	17 18	0 49	12 19	16 22	7 0	7 24	16 20		n.a.
M 6	5 10	18 48	4 48	1 3	1 39	21 43	2 24	17 16	1 25	2 15	1 11	9 2	2 7	3 8	0 40	17 17	0 49	12 18	16 22	7 1	7 25	16 21		n.a.
T 7	5 33	18 20	4 17	0 8	1 31	22 1	2 26	17 3	1 26	2 10	1 11	9 0	2 7	3 7	0 40	17 17	0 49	12 18	16 22	7 1	7 27	16 22		n.a.
W 8	5 56	17 0	3 33	0n47	1 23	22 19	2 29	16 49	1 27	2 4	1 11	8 57	2 7	3 6	0 40	17 17	0 49	12 17	16 22	7 1	7 28	16 23		n.a.
T 9	6 18	14 49	2 37	1 44	1 14	22 36	2 31	16 35	1 27	1 59	1 11	8 55	2 7	3 6	0 40	17 16	0 49	12 16	16 22	7 0	7 29	16 24		n.a.
F 10	6 41	11 50	1 33	2 41	1 5	22 53	2 33	16 21	1 28	1 53	1 11	8 52	2 7	3 5	0 40	17 16	0 49	12 16	16 22	7 0	7 30	16 25		n.a.
S 11	7 3	8 9	0 21	3 39	0 56	23 9	2 36	16 7	1 29	1 47	1 11	8 50	2 7	3 4	0 40	17 16	0 49	12 15	16 22	6 59	7 32	16 26		n.a.
S 12	7 25	3 55	0s54	4 38	0 46	23 25	2 38	15 53	1 29	1 42	1 11	8 47	2 7	3 3	0 40	17 15	0 49	12 15	16 22	6 59	7 33	16 27		n.a.
M13	7 47	0n39	2 7	5 37	0 37	23 40	2 40	15 39	1 30	1 36	1 11	8 45	2 8	3 2	0 39	17 15	0 49	12 15	16 22	7 0	7 34	16 28		n.a.
T 14	8 9	5 17	3 14	6 36	0 26	23 55	2 42	15 24	1 30	1 31	1 12	8 42	2 8	3 1	0 39	17 15	0 49	12 14	16 23	7 1	7 35	16 30		n.a.
W15	8 31	9 41	4 10	7 36	0 16	24 9	2 44	15 10	1 31	1 25	1 12	8 40	2 8	3 0	0 39	17 14	0 49	12 14	16 23	7 3	7 36	16 31		n.a.
T 16	8 53	13 30	4 48	8 35	0 5	24 22	2 46	14 55	1 32	1 20	1 12	8 38	2 8	2 59	0 39	17 14	0 49	12 13	16 23	7 6	7 38	16 32		n.a.
F 17	9 15	16 26	5 7	9 34	0n 5	24 35	2 47	14 40	1 32	1 14	1 12	8 35	2 8	2 58	0 39	17 14	0 49	12 13	16 23	7 8	7 39	16 33		n.a.
S 18	9 36	18 16	5 6	10 32	0 16	24 47	2 49	14 25	1 33	1 9	1 12	8 33	2 8	2 57	0 39	17 13	0 49	12 12	16 23	7 10	7 40	16 34		n.a.
S 19	9 58	18 52	4 45	11 29	0 26	24 58	2 51	14 10	1 33	1 3	1 12	8 31	2 9	2 56	0 39	17 13	0 49	12 12	16 23	7 11	7 41	16 35		n.a.
M20	10 19	18 16	4 7	12 26	0 37	25 9	2 52	13 55	1 34	0 58	1 12	8 28	2 9	2 55	0 39	17 13	0 49	12 11	16 23	7 12	7 42	16 36		n.a.
T 21	10 40	16 35	3 15	13 21	0 47	25 19	2 53	13 40	1 34	0 53	1 12	8 26	2 9	2 54	0 39	17 13	0 49	12 11	16 23	7 12	7 44	16 37		n.a.
W22	11 0	14 1	2 14	14 14	0 57	25 29	2 54	13 25	1 35	0 47	1 12	8 24	2 9	2 53	0 39	17 12	0 49	12 10	16 23	7 12	7 45	16 38		n.a.
T 23	11 21	10 45	1 7	15 6	1 6	25 38	2 56	13 9	1 35	0 42	1 12	8 22	2 9	2 52	0 39	17 12	0 49	12 10	16 23	7 11	7 46	16 39		n.a.
F 24	11 42	7 3	0n 2	15 56	1 15	25 46	2 57	12 54	1 36	0 37	1 12	8 19	2 10	2 51	0 39	17 12	0 49	12 10	16 23	7 11	7 47	16 40		n.a.
S 25	12 2	3 5	1 10	16 44	1 24	25 54	2 57	12 38	1 36	0 31	1 12	8 17	2 10	2 50	0 39	17 12	0 49	12 9	16 23	7 11	7 49	16 41		n.a.
S 26	12 22	0s58	2 13	17 30	1 32	26 1	2 58	12 22	1 37	0 26	1 12	8 15	2 10	2 49	0 39	17 11	0 50	12 9	16 24	7 12	7 50	16 42		n.a.
M27	12 42	4 55	3 9	18 14	1 39	26 8	2 59	12 7	1 37	0 21	1 12	8 13	2 10	2 49	0 39	17 11	0 50	12 9	16 24	7 14	7 51	16 43		n.a.
T 28	13 2	8 37	3 56	18 55	1 46	26 14	2 59	11 51	1 38	0 16	1 13	8 11	2 10	2 48	0 39	17 11	0 50	12 8	16 24	7 17	7 52	16 44		n.a.
W29	13 21	11 56	4 31	19 34	1 52	26 19	3 0	11 35	1 38	0 10	1 13	8 9	2 10	2 47	0 39	17 11	0 50	12 8	16 24	7 21	7 53	16 45		n.a.
T 30	13n41	14s43	4n54	20n11	1n58	26n24	3n 0	11s19	1s39	0s 5	1s13	8s 7	2s11	2s46	0n39	17s11	0s50	12s 7	16s24	7n25	7n55	16s46		n.a.

Julian Day Number = 1675857.5, Delta T = 03h18m05s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'19, Lahiri = - 5°40'18 Julian Calendar 1 Apr. 125 BCE == Greg. Calendar 29 March 125 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

MAY 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 23 51	6♉58'14	7♐57	23♉11	22♊ 4	5♓45	2♈46	14♓45	8°R22	15♒27	7♈15	11°R 7	9♍56	7♐51	n.a.	F 1
S 2	14 27 48	7°55'36	19°50	25° 1	23° 4	6°29	2°59	14°50	8♎20	15°27	7°16	10♍58	9°53	7°58	n.a.	S 2
S 3	14 31 44	8°52'56	1♋42	26°47	24° 3	7°14	3°12	14°56	8°17	15°28	7°17	10°50	9°50	8° 5	n.a.	S 3
M 4	14 35 41	9°50'16	13°38	28°32	25° 2	7°58	3°25	15° 1	8°15	15°29	7°19	10°44	9°46	8°12	n.a.	M 4
T 5	14 39 37	10°47'35	25°42	0♊13	26° 0	8°42	3°38	15° 7	8°13	15°29	7°20	10°41	9°43	8°18	n.a.	T 5
W 6	14 43 34	11°44'53	7♒57	1°52	26°58	9°26	3°51	15°12	8°11	15°30	7°21	10°D40	9°40	8°25	n.a.	W 6
T 7	14 47 30	12°42'11	20°29	3°28	27°55	10°11	4° 3	15°17	8° 9	15°30	7°22	10°40	9°37	8°32	n.a.	T 7
F 8	14 51 27	13°39'28	3♓22	5° 1	28°52	10°55	4°16	15°22	8° 8	15°31	7°23	10°41	9°34	8°38	n.a.	F 8
S 9	14 55 24	14°36'45	16°40	6°31	29°49	11°39	4°28	15°28	8° 6	15°31	7°24	10°R41	9°30	8°45	n.a.	S 9
S 10	14 59 20	15°34'01	0♈26	7°59	0♋45	12°23	4°41	15°33	8° 4	15°31	7°25	10°39	9°27	8°52	n.a.	S 10
M11	15 3 17	16°31'16	14°41	9°23	1°40	13° 7	4°53	15°38	8° 2	15°32	7°27	10°35	9°24	8°59	n.a.	M11
T 12	15 7 13	17°28'31	29°22	10°45	2°35	13°50	5° 6	15°42	8° 0	15°32	7°28	10°29	9°21	9° 5	n.a.	T 12
W13	15 11 10	18°25'46	14♉24	12° 3	3°30	14°34	5°18	15°47	7°58	15°32	7°29	10°21	9°18	9°12	n.a.	W13
T 14	15 15 6	19°23'00	29°37	13°19	4°24	15°18	5°30	15°52	7°57	15°33	7°30	10°11	9°15	9°19	n.a.	T 14
F 15	15 19 3	20°20'13	14♊50	14°32	5°17	16° 1	5°43	15°57	7°55	15°33	7°31	10° 1	9°11	9°26	n.a.	F 15
S 16	15 22 59	21°17'26	29°52	15°41	6°10	16°45	5°55	16° 1	7°54	15°33	7°32	9°53	9° 8	9°32	n.a.	S 16
S 17	15 26 56	22°14'38	14♋36	16°48	7° 3	17°28	6° 7	16° 6	7°52	15°33	7°33	9°46	9° 5	9°39	n.a.	S 17
M18	15 30 53	23°11'49	28°56	17°51	7°54	18°12	6°19	16°10	7°50	15°33	7°34	9°42	9° 2	9°46	n.a.	M18
T 19	15 34 49	24° 8'59	12♌50	18°51	8°45	18°55	6°30	16°15	7°49	15°34	7°35	9°40	8°59	9°52	n.a.	T 19
W20	15 38 46	25° 6'09	26°17	19°47	9°36	19°38	6°42	16°19	7°47	15°34	7°36	9°D39	8°56	9°59	n.a.	W20
T 21	15 42 42	26° 3'17	9♍21	20°40	10°25	20°21	6°54	16°23	7°46	15°34	7°37	9°R40	8°52	10° 6	n.a.	T 21
F 22	15 46 39	27° 0'26	22° 6	21°29	11°14	21° 4	7° 5	16°27	7°45	15°R34	7°38	9°39	8°49	10°13	n.a.	F 22
S 23	15 50 35	27°57'33	4♎35	22°15	12° 2	21°47	7°17	16°31	7°43	15°34	7°39	9°37	8°46	10°19	n.a.	S 23
S 24	15 54 32	28°54'40	16°52	22°57	12°50	22°30	7°28	16°35	7°42	15°34	7°40	9°32	8°43	10°26	n.a.	S 24
M25	15 58 28	29°51'46	29° 0	23°35	13°36	23°13	7°40	16°39	7°41	15°33	7°41	9°25	8°40	10°33	n.a.	M25
T 26	16 2 25	0♊48'53	11♏ 2	24° 8	14°22	23°56	7°51	16°43	7°40	15°33	7°42	9°15	8°36	10°40	n.a.	T 26
W27	16 6 22	1°45'58	22°59	24°38	15° 7	24°39	8° 2	16°46	7°38	15°33	7°43	9° 2	8°33	10°46	n.a.	W27
T 28	16 10 18	2°43'04	4♐53	25° 4	15°50	25°21	8°13	16°50	7°37	15°33	7°43	8°49	8°30	10°53	n.a.	T 28
F 29	16 14 15	3°40'10	16°46	25°25	16°33	26° 4	8°24	16°53	7°36	15°33	7°44	8°35	8°27	11° 0	n.a.	F 29
S 30	16 18 11	4°37'15	28°38	25°41	17°15	26°46	8°35	16°57	7°35	15°33	7°45	8°23	8°24	11° 6	n.a.	S 30
S 31	16 22 8	5♊34'21	10♋33	25♊53	17♋56	27♓29	8♈46	17♓ 0	7♎34	15♒32	7♈46	8♍12	8♍21	11♐13	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	14n 0	16s53	5n 4	20n45	2n 2	26n28	3n 0	11s 2	1s39	0n 0	1s13	8s 5	2s11	2s45	0n39	17s11	0s50	12s 7	16s24	7n29	7n56	16s47		n.a.
S 2	14 18	18 18	5 1	21 16	2 6	26 31	3 0	10 46	1 40	0 5	1 13	8 3	2 11	2 44	0 39	17 10	0 50	12 7	16 24	7 32	7 57	16 48		n.a.
S 3	14 37	18 57	4 45	21 45	2 10	26 34	3 0	10 30	1 40	0 10	1 13	8 1	2 11	2 44	0 39	17 10	0 50	12 6	16 25	7 35	7 58	16 49		n.a.
M 4	14 56	18 45	4 16	22 12	2 12	26 36	2 59	10 14	1 41	0 15	1 13	7 59	2 12	2 43	0 39	17 10	0 50	12 6	16 25	7 37	7 59	16 50		n.a.
T 5	15 14	17 42	3 36	22 36	2 14	26 37	2 59	9 57	1 41	0 20	1 13	7 57	2 12	2 42	0 39	17 10	0 50	12 6	16 25	7 39	8 1	16 51		n.a.
W 6	15 32	15 49	2 45	22 58	2 15	26 38	2 58	9 41	1 42	0 25	1 13	7 55	2 12	2 41	0 39	17 10	0 50	12 5	16 25	7 39	8 2	16 52		n.a.
T 7	15 49	13 9	1 46	23 18	2 15	26 39	2 57	9 24	1 42	0 31	1 13	7 53	2 12	2 40	0 39	17 10	0 50	12 5	16 25	7 39	8 3	16 54		n.a.
F 8	16 7	9 47	0 39	23 35	2 15	26 38	2 56	9 8	1 42	0 35	1 13	7 51	2 12	2 40	0 39	17 10	0 50	12 5	16 25	7 39	8 4	16 55		n.a.
S 9	16 24	5 49	0s32	23 50	2 14	26 38	2 55	8 51	1 43	0 40	1 14	7 50	2 13	2 39	0 39	17 10	0 50	12 5	16 26	7 39	8 5	16 56		n.a.
S 10	16 41	1 24	1 43	24 3	2 12	26 36	2 54	8 35	1 43	0 45	1 14	7 48	2 13	2 38	0 39	17 9	0 50	12 4	16 26	7 39	8 7	16 57		n.a.
M11	16 58	3n14	2 51	24 14	2 9	26 34	2 52	8 18	1 44	0 50	1 14	7 46	2 13	2 38	0 39	17 9	0 50	12 4	16 26	7 41	8 8	16 58		n.a.
T 12	17 14	7 49	3 49	24 23	2 5	26 32	2 51	8 1	1 44	0 55	1 14	7 44	2 13	2 37	0 39	17 9	0 50	12 4	16 26	7 43	8 9	16 59		n.a.
W13	17 30	12 0	4 32	24 30	2 1	26 28	2 49	7 44	1 44	1 0	1 14	7 43	2 14	2 36	0 39	17 9	0 50	12 4	16 26	7 46	8 10	17 0		n.a.
T 14	17 46	15 27	4 57	24 35	1 56	26 25	2 47	7 28	1 45	1 5	1 14	7 41	2 14	2 36	0 39	17 9	0 50	12 3	16 27	7 50	8 12	17 1		n.a.
F 15	18 2	17 51	5 1	24 38	1 51	26 21	2 45	7 11	1 45	1 9	1 14	7 39	2 14	2 35	0 39	17 9	0 50	12 3	16 27	7 54	8 13	17 2		n.a.
S 16	18 17	18 58	4 44	24 39	1 44	26 16	2 42	6 54	1 45	1 14	1 14	7 38	2 14	2 34	0 39	17 9	0 50	12 3	16 27	7 57	8 14	17 3		n.a.
S 17	18 32	18 47	4 9	24 39	1 37	26 11	2 40	6 37	1 46	1 19	1 15	7 36	2 14	2 34	0 39	17 9	0 50	12 3	16 27	8 0	8 15	17 4		n.a.
M18	18 47	17 22	3 18	24 38	1 29	26 5	2 37	6 20	1 46	1 23	1 15	7 35	2 15	2 33	0 39	17 9	0 50	12 2	16 27	8 1	8 16	17 4		n.a.
T 19	19 1	14 58	2 17	24 35	1 21	25 59	2 34	6 3	1 46	1 28	1 15	7 33	2 15	2 33	0 39	17 9	0 50	12 2	16 28	8 2	8 18	17 5		n.a.
W20	19 15	11 48	1 10	24 30	1 12	25 52	2 31	5 47	1 46	1 33	1 15	7 32	2 15	2 32	0 39	17 9	0 50	12 2	16 28	8 2	8 19	17 6		n.a.
T 21	19 29	8 7	0 2	24 24	1 2	25 45	2 27	5 30	1 47	1 37	1 15	7 30	2 15	2 32	0 39	17 9	0 50	12 2	16 28	8 2	8 20	17 7		n.a.
F 22	19 43	4 10	1n 5	24 17	0 51	25 37	2 24	5 13	1 47	1 42	1 15	7 29	2 16	2 31	0 39	17 9	0 51	12 2	16 28	8 2	8 21	17 8		n.a.
S 23	19 56	0 7	2 8	24 9	0 40	25 29	2 20	4 56	1 47	1 46	1 15	7 28	2 16	2 30	0 39	17 9	0 51	12 2	16 29	8 3	8 22	17 9		n.a.
S 24	20 8	3s53	3 3	24 0	0 29	25 20	2 16	4 39	1 48	1 51	1 16	7 26	2 16	2 30	0 38	17 9	0 51	12 2	16 29	8 5	8 24	17 10		n.a.
M25	20 21	7 40	3 49	23 49	0 16	25 11	2 12	4 22	1 48	1 55	1 16	7 25	2 16	2 30	0 38	17 9	0 51	12 1	16 29	8 8	8 25	17 11		n.a.
T 26	20 33	11 7	4 25	23 38	0 3	25 2	2 7	4 5	1 48	1 59	1 16	7 24	2 17	2 29	0 38	17 9	0 51	12 1	16 29	8 11	8 26	17 12		n.a.
W27	20 45	14 5	4 48	23 26	0s10	24 52	2 2	3 48	1 48	2 4	1 16	7 23	2 17	2 29	0 38	17 10	0 51	12 1	16 30	8 16	8 27	17 13		n.a.
T 28	20 56	16 27	4 59	23 13	0 24	24 42	1 57	3 31	1 48	2 8	1 16	7 21	2 17	2 28	0 38	17 10	0 51	12 1	16 30	8 21	8 28	17 14		n.a.
F 29	21 7	18 7	4 57	22 59	0 39	24 31	1 52	3 14	1 49	2 12	1 16	7 20	2 18	2 28	0 38	17 10	0 51	12 1	16 30	8 26	8 30	17 15		n.a.
S 30	21 18	19 1	4 42	22 45	0 54	24 21	1 47	2 58	1 49	2 16	1 16	7 19	2 18	2 28	0 38	17 10	0 51	12 1	16 30	8 31	8 31	17 16		n.a.
S 31	21n28	19s 4	4n14	22n30	1s 9	24n 9	1n41	2s41	1s49	2n20	1s17	7s18	2s18	2s27	0n38	17s10	0s51	12s 1	16s31	8n35	8n32	17s17		n.a.

Julian Day Number = 1675887.5, Delta T = 03h18m04s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'14, Lahiri = - 5°40'14 Julian Calendar 1 May 125 BCE == Greg. Calendar 28 Apr. 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

JUNE 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 26 4	6♊31'26	22♉31	26♊ 1	18♋36	28♓11	8♈56	17♓ 3	7°R33	15°R32	7♈47	8°R 4	8♍17	11♐20	n.a.	M 1
T 2	16 30 1	7°28'32	4♒37	26°R 4	19°15	28°53	9° 7	17° 7	7♎33	15♒32	7°48	7♍58	8°14	11°27	n.a.	T 2
W 3	16 33 57	8°25'38	16°53	26° 2	19°53	29°35	9°17	17°10	7°32	15°31	7°48	7°55	8°11	11°33	n.a.	W 3
T 4	16 37 54	9°22'45	29°23	25°55	20°29	0♈17	9°28	17°13	7°31	15°31	7°49	7°54	8° 8	11°40	n.a.	T 4
F 5	16 41 51	10°19'51	12♓13	25°44	21° 4	0°59	9°38	17°16	7°30	15°30	7°50	7°54	8° 5	11°47	n.a.	F 5
S 6	16 45 47	11°16'58	25°26	25°29	21°38	1°41	9°48	17°18	7°30	15°30	7°51	7°54	8° 2	11°53	n.a.	S 6
S 7	16 49 44	12°14'06	9♈ 6	25°10	22°11	2°22	9°58	17°21	7°29	15°29	7°51	7°52	7°58	12° 0	n.a.	S 7
M 8	16 53 40	13°11'14	23°15	24°46	22°42	3° 4	10° 8	17°24	7°28	15°29	7°52	7°48	7°55	12° 7	n.a.	M 8
T 9	16 57 37	14° 8'22	7♉51	24°19	23°12	3°45	10°18	17°26	7°28	15°28	7°53	7°42	7°52	12°14	n.a.	T 9
W10	17 1 33	15° 5'31	22°51	23°48	23°41	4°27	10°28	17°29	7°27	15°28	7°53	7°33	7°49	12°20	n.a.	W10
T 11	17 5 30	16° 2'41	8♊ 6	23°14	24° 8	5° 8	10°37	17°31	7°27	15°27	7°54	7°22	7°46	12°27	n.a.	T 11
F 12	17 9 26	16°59'50	23°25	22°39	24°33	5°49	10°47	17°33	7°27	15°26	7°55	7°12	7°42	12°34	n.a.	F 12
S 13	17 13 23	17°57'01	8♋37	22° 1	24°57	6°30	10°56	17°35	7°26	15°26	7°55	7° 2	7°39	12°41	n.a.	S 13
S 14	17 17 20	18°54'11	23°31	21°22	25°19	7°11	11° 5	17°37	7°26	15°25	7°56	6°55	7°36	12°47	n.a.	S 14
M15	17 21 16	19°51'22	8♌ 1	20°42	25°39	7°52	11°14	17°39	7°26	15°24	7°56	6°50	7°33	12°54	n.a.	M15
T 16	17 25 13	20°48'33	22° 3	20° 3	25°57	8°33	11°23	17°41	7°26	15°24	7°57	6°47	7°30	13° 1	n.a.	T 16
W17	17 29 9	21°45'44	5♍36	19°24	26°14	9°13	11°32	17°43	7°25	15°23	7°57	6°D47	7°27	13° 7	n.a.	W17
T 18	17 33 6	22°42'55	18°42	18°47	26°28	9°54	11°41	17°44	7°25	15°22	7°58	6°R47	7°23	13°14	n.a.	T 18
F 19	17 37 2	23°40'06	1♎26	18°12	26°41	10°34	11°50	17°46	7°D25	15°21	7°58	6°47	7°20	13°21	n.a.	F 19
S 20	17 40 59	24°37'18	13°52	17°40	26°52	11°14	11°58	17°47	7°25	15°20	7°59	6°45	7°17	13°28	n.a.	S 20
S 21	17 44 56	25°34'30	26° 4	17°11	27° 0	11°55	12° 6	17°48	7°26	15°19	7°59	6°41	7°14	13°34	n.a.	S 21
M22	17 48 52	26°31'43	8♏ 6	16°46	27° 6	12°35	12°15	17°50	7°26	15°18	8° 0	6°35	7°11	13°41	n.a.	M22
T 23	17 52 49	27°28'56	20° 2	16°26	27°10	13°14	12°23	17°51	7°26	15°17	8° 0	6°26	7° 8	13°48	n.a.	T 23
W24	17 56 45	28°26'10	1♐56	16°11	27°R12	13°54	12°30	17°52	7°26	15°16	8° 0	6°15	7° 4	13°55	n.a.	W24
T 25	18 0 42	29°23'24	13°48	16° 0	27°11	14°34	12°38	17°53	7°26	15°15	8° 1	6° 3	7° 1	14° 1	n.a.	T 25
F 26	18 4 38	0♋20'39	25°41	15°D55	27° 8	15°13	12°46	17°53	7°27	15°14	8° 1	5°51	6°58	14° 8	n.a.	F 26
S 27	18 8 35	1°17'55	7♉37	15°56	27° 3	15°53	12°53	17°54	7°27	15°13	8° 1	5°40	6°55	14°15	n.a.	S 27
S 28	18 12 31	2°15'12	19°37	16° 3	26°55	16°32	13° 1	17°55	7°28	15°12	8° 2	5°30	6°52	14°21	n.a.	S 28
M29	18 16 28	3°12'30	1♒43	16°16	26°45	17°11	13° 8	17°55	7°28	15°11	8° 2	5°23	6°48	14°28	n.a.	M29
T 30	18 20 25	4♋ 9'49	13♒56	16♊36	26♋33	17♈50	13♈15	17♓56	7♎29	15♒10	8♈ 2	5♍19	6♍45	14♐35	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n38	18s16	3n35	22n15	1s24	23n58	1n35	2s24	1s49	2n25	1s17	7s17	2s18	2s27	0n38	17s10	0s51	12s 1	16s31	8n38	8n33	17s18		n.a.
T 2	21 48	16 38	2 46	21 59	1 40	23 46	1 29	2 7	1 49	2 29	1 17	7 16	2 19	2 27	0 38	17 10	0 51	12 1	16 31	8 40	8 34	17 19		n.a.
W 3	21 57	14 14	1 49	21 43	1 56	23 34	1 22	1 50	1 50	2 33	1 17	7 15	2 19	2 26	0 38	17 10	0 51	12 1	16 32	8 42	8 36	17 20		n.a.
T 4	22 6	11 7	0 45	21 27	2 11	23 22	1 15	1 34	1 50	2 37	1 17	7 14	2 19	2 26	0 38	17 11	0 51	12 1	16 32	8 42	8 37	17 21		n.a.
F 5	22 15	7 24	0s23	21 11	2 27	23 9	1 8	1 17	1 50	2 40	1 17	7 13	2 19	2 26	0 38	17 11	0 51	12 1	16 32	8 42	8 38	17 22		n.a.
S 6	22 23	3 14	1 31	20 56	2 42	22 57	1 1	1 0	1 50	2 44	1 18	7 13	2 20	2 25	0 38	17 11	0 51	12 1	16 32	8 42	8 39	17 23		n.a.
S 7	22 31	1n15	2 37	20 40	2 57	22 44	0 53	0 44	1 50	2 48	1 18	7 12	2 20	2 25	0 38	17 11	0 51	12 0	16 33	8 43	8 40	17 24		n.a.
M 8	22 38	5 48	3 35	20 24	3 12	22 31	0 45	0 27	1 50	2 52	1 18	7 11	2 20	2 25	0 38	17 11	0 51	12 0	16 33	8 44	8 42	17 25		n.a.
T 9	22 45	10 10	4 21	20 9	3 26	22 17	0 37	0 10	1 50	2 56	1 18	7 10	2 21	2 25	0 38	17 11	0 51	12 0	16 33	8 47	8 43	17 26		n.a.
W10	22 52	14 0	4 51	19 55	3 39	22 4	0 28	0n 6	1 50	2 59	1 18	7 10	2 21	2 25	0 38	17 12	0 51	12 1	16 34	8 50	8 44	17 26		n.a.
T 11	22 58	16 57	5 1	19 41	3 51	21 51	0 19	0 23	1 50	3 3	1 18	7 9	2 21	2 25	0 38	17 12	0 51	12 1	16 34	8 54	8 45	17 27		n.a.
F 12	23 4	18 44	4 49	19 28	4 2	21 37	0 10	0 39	1 51	3 7	1 19	7 8	2 21	2 24	0 38	17 12	0 51	12 1	16 34	8 58	8 46	17 28		n.a.
S 13	23 9	19 9	4 17	19 16	4 12	21 23	0 0	0 55	1 51	3 10	1 19	7 8	2 22	2 24	0 38	17 12	0 51	12 1	16 34	9 1	8 48	17 29		n.a.
S 14	23 14	18 13	3 28	19 5	4 20	21 10	0s 9	1 12	1 51	3 14	1 19	7 7	2 22	2 24	0 38	17 13	0 51	12 1	16 35	9 4	8 49	17 30		n.a.
M15	23 19	16 7	2 26	18 56	4 28	20 56	0 20	1 28	1 51	3 17	1 19	7 7	2 22	2 24	0 38	17 13	0 51	12 1	16 35	9 6	8 50	17 31		n.a.
T 16	23 23	13 6	1 17	18 48	4 33	20 42	0 30	1 44	1 51	3 20	1 19	7 6	2 23	2 24	0 38	17 13	0 51	12 1	16 35	9 7	8 51	17 32		n.a.
W17	23 27	9 28	0 6	18 41	4 37	20 28	0 41	2 0	1 51	3 24	1 20	7 6	2 23	2 24	0 38	17 13	0 51	12 1	16 36	9 7	8 52	17 33		n.a.
T 18	23 30	5 29	1n 3	18 36	4 39	20 15	0 52	2 16	1 51	3 27	1 20	7 5	2 23	2 24	0 38	17 14	0 52	12 1	16 36	9 7	8 54	17 34		n.a.
F 19	23 33	1 21	2 7	18 32	4 40	20 1	1 3	2 32	1 51	3 30	1 20	7 5	2 23	2 24	0 38	17 14	0 52	12 1	16 36	9 7	8 55	17 35		n.a.
S 20	23 36	2s43	3 3	18 30	4 39	19 48	1 15	2 48	1 51	3 33	1 20	7 5	2 24	2 24	0 37	17 14	0 52	12 1	16 37	9 8	8 56	17 36		n.a.
S 21	23 38	6 36	3 50	18 30	4 36	19 34	1 27	3 4	1 51	3 36	1 20	7 5	2 24	2 24	0 37	17 15	0 52	12 1	16 37	9 9	8 57	17 36		n.a.
M22	23 40	10 10	4 26	18 32	4 32	19 21	1 39	3 20	1 51	3 39	1 21	7 4	2 24	2 24	0 37	17 15	0 52	12 1	16 37	9 12	8 58	17 37		n.a.
T 23	23 41	13 18	4 50	18 35	4 26	19 8	1 52	3 35	1 50	3 42	1 21	7 4	2 25	2 25	0 37	17 15	0 52	12 2	16 38	9 15	9 0	17 38		n.a.
W24	23 42	15 52	5 1	18 41	4 19	18 55	2 5	3 51	1 50	3 45	1 21	7 4	2 25	2 25	0 37	17 16	0 52	12 2	16 38	9 19	9 1	17 39		n.a.
T 25	23 42	17 46	4 59	18 48	4 11	18 42	2 18	4 7	1 50	3 48	1 21	7 4	2 25	2 25	0 37	17 16	0 52	12 2	16 38	9 23	9 2	17 40		n.a.
F 26	23 42	18 54	4 44	18 57	4 2	18 29	2 31	4 22	1 50	3 51	1 21	7 4	2 25	2 25	0 37	17 16	0 52	12 2	16 39	9 28	9 3	17 41		n.a.
S 27	23 42	19 12	4 17	19 8	3 51	18 17	2 45	4 37	1 50	3 54	1 22	7 4	2 26	2 25	0 37	17 17	0 52	12 2	16 39	9 32	9 4	17 42		n.a.
S 28	23 41	18 39	3 38	19 20	3 40	18 5	2 59	4 53	1 50	3 56	1 22	7 4	2 26	2 26	0 37	17 17	0 52	12 2	16 39	9 36	9 5	17 43		n.a.
M29	23 40	17 15	2 49	19 33	3 27	17 54	3 12	5 8	1 50	3 59	1 22	7 4	2 26	2 26	0 37	17 17	0 52	12 3	16 40	9 38	9 7	17 44		n.a.
T 30	23n38	15s 3	1n51	19n48	3s14	17n42	3s26	5n23	1s50	4n 2	1s22	7s 4	2s27	2s26	0n37	17s18	0s52	12s 3	16s40	9n40	9n 8	17s44		n.a.

Julian Day Number = 1675918.5, Delta T = 03h18m03s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'10, Lahiri = - 5°40'10 Julian Calendar 1 June 125 BCE == Greg. Calendar 29 May 125 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

JULY 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 24 21	5♋ 7'08	26♒19	17♊ 1	26°R18	18♈29	13♈22	17♓56	7♎29	15°R 9	8♈ 2	5°R17	6♍42	14♐42	n.a.	W 1
T 2	18 28 18	6° 4'29	8♓55	17°33	26♋ 1	19° 7	13°29	17°56	7°30	15♒ 8	8° 3	5°D16	6°39	14°48	n.a.	T 2
F 3	18 32 14	7° 1'52	21°47	18°11	25°42	19°46	13°35	17°R56	7°31	15° 7	8° 3	5♍17	6°36	14°55	n.a.	F 3
S 4	18 36 11	7°59'15	4♈59	18°55	25°20	20°24	13°42	17°56	7°32	15° 5	8° 3	5°R17	6°33	15° 2	n.a.	S 4
S 5	18 40 7	8°56'40	18°34	19°45	24°56	21° 2	13°48	17°56	7°32	15° 4	8° 3	5°17	6°29	15° 8	n.a.	S 5
M 6	18 44 4	9°54'06	2♉34	20°41	24°31	21°40	13°54	17°56	7°33	15° 3	8° 3	5°15	6°26	15°15	n.a.	M 6
T 7	18 48 0	10°51'34	16°58	21°43	24° 3	22°18	14° 0	17°55	7°34	15° 2	8° 3	5°11	6°23	15°22	n.a.	T 7
W 8	18 51 57	11°49'03	1♊44	22°51	23°34	22°56	14° 6	17°55	7°35	15° 0	8° 3	5° 5	6°20	15°29	n.a.	W 8
T 9	18 55 54	12°46'34	16°45	24° 4	23° 3	23°33	14°12	17°54	7°36	14°59	8° 3	4°57	6°17	15°35	n.a.	T 9
F 10	18 59 50	13°44'06	1♋54	25°23	22°30	24°11	14°17	17°54	7°37	14°58	8° 3	4°50	6°14	15°42	n.a.	F 10
S 11	19 3 47	14°41'39	16°59	26°47	21°56	24°48	14°23	17°53	7°38	14°56	8°R 3	4°43	6°10	15°49	n.a.	S 11
S 12	19 7 43	15°39'14	1♌52	28°16	21°21	25°25	14°28	17°52	7°40	14°55	8° 3	4°37	6° 7	15°56	n.a.	S 12
M13	19 11 40	16°36'50	16°24	29°50	20°46	26° 2	14°33	17°51	7°41	14°53	8° 3	4°34	6° 4	16° 2	n.a.	M13
T 14	19 15 36	17°34'26	0♍30	1♋27	20° 9	26°39	14°37	17°50	7°42	14°52	8° 3	4°D32	6° 1	16° 9	n.a.	T 14
W15	19 19 33	18°32'04	14° 9	3° 9	19°32	27°15	14°42	17°49	7°43	14°51	8° 3	4°33	5°58	16°16	n.a.	W15
T 16	19 23 29	19°29'43	27°21	4°54	18°55	27°51	14°47	17°47	7°45	14°49	8° 3	4°34	5°54	16°22	n.a.	T 16
F 17	19 27 26	20°27'23	10♎ 8	6°43	18°18	28°28	14°51	17°46	7°46	14°48	8° 3	4°35	5°51	16°29	n.a.	F 17
S 18	19 31 23	21°25'05	22°36	8°34	17°42	29° 4	14°55	17°45	7°48	14°46	8° 3	4°R35	5°48	16°36	n.a.	S 18
S 19	19 35 19	22°22'47	4♏48	10°28	17° 5	29°39	14°59	17°43	7°49	14°45	8° 3	4°35	5°45	16°43	n.a.	S 19
M20	19 39 16	23°20'31	16°50	12°23	16°30	0♉15	15° 3	17°41	7°51	14°43	8° 3	4°32	5°42	16°49	n.a.	M20
T 21	19 43 12	24°18'16	28°45	14°21	15°55	0°50	15° 6	17°40	7°53	14°42	8° 2	4°28	5°39	16°56	n.a.	T 21
W22	19 47 9	25°16'02	10♐37	16°19	15°22	1°25	15° 9	17°38	7°54	14°40	8° 2	4°22	5°35	17° 3	n.a.	W22
T 23	19 51 5	26°13'50	22°30	18°18	14°50	2° 0	15°13	17°36	7°56	14°39	8° 2	4°15	5°32	17° 9	n.a.	T 23
F 24	19 55 2	27°11'39	4♑26	20°18	14°19	2°35	15°16	17°34	7°58	14°37	8° 2	4° 8	5°29	17°16	n.a.	F 24
S 25	19 58 58	28° 9'30	16°28	22°18	13°50	3° 9	15°18	17°31	8° 0	14°36	8° 2	4° 2	5°26	17°23	n.a.	S 25
S 26	20 2 55	29° 7'22	28°37	24°18	13°24	3°44	15°21	17°29	8° 1	14°34	8° 1	3°57	5°23	17°30	n.a.	S 26
M27	20 6 52	0♌ 5'16	10♒55	26°18	12°59	4°18	15°24	17°27	8° 3	14°32	8° 1	3°53	5°20	17°36	n.a.	M27
T 28	20 10 48	1° 3'12	23°21	28°18	12°36	4°52	15°26	17°24	8° 5	14°31	8° 1	3°51	5°16	17°43	n.a.	T 28
W29	20 14 45	2° 1'09	5♓59	0♌16	12°15	5°25	15°28	17°22	8° 7	14°29	8° 0	3°D50	5°13	17°50	n.a.	W29
T 30	20 18 41	2°59'08	18°49	2°14	11°57	5°59	15°30	17°19	8° 9	14°28	8° 0	3°51	5°10	17°57	n.a.	T 30
F 31	20 22 38	3♌57'10	1♈54	4♌11	11♋41	6♉32	15♈31	17♓17	8♎11	14♒26	7♈59	3♍53	5♍ 7	18♐ 3	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	23n36	12s 8	0n48	20n 4	3s 1	17n31	3s40	5n38	1s50	4n 4	1s22	7s 4	2s27	2s26	0n37	17s18	0s52	12s 3	16s40	9n41	9n 9	17s45			n.a.
T 2	23 34	8 37	0s20	20 21	2 47	17 20	3 55	5 53	1 49	4 7	1 23	7 5	2 27	2 27	0 37	17 18	0 52	12 3	16 40	9 41	9 10	17 46			n.a.
F 3	23 31	4 38	1 27	20 39	2 32	17 10	4 9	6 8	1 49	4 9	1 23	7 5	2 28	2 27	0 37	17 19	0 52	12 3	16 41	9 41	9 11	17 47			n.a.
S 4	23 28	0 19	2 32	20 57	2 17	17 0	4 23	6 22	1 49	4 11	1 23	7 5	2 28	2 27	0 37	17 19	0 52	12 4	16 41	9 41	9 13	17 48			n.a.
S 5	23 24	4n 7	3 31	21 16	2 2	16 51	4 37	6 37	1 49	4 14	1 23	7 5	2 28	2 28	0 37	17 20	0 52	12 4	16 41	9 41	9 14	17 49			n.a.
M 6	23 20	8 28	4 18	21 36	1 47	16 42	4 50	6 52	1 49	4 16	1 24	7 6	2 28	2 28	0 37	17 20	0 52	12 4	16 42	9 41	9 15	17 50			n.a.
T 7	23 15	12 26	4 51	21 55	1 32	16 33	5 4	7 6	1 48	4 18	1 24	7 6	2 29	2 28	0 37	17 20	0 52	12 4	16 42	9 43	9 16	17 50			n.a.
W 8	23 11	15 45	5 6	22 14	1 17	16 25	5 17	7 20	1 48	4 20	1 24	7 7	2 29	2 29	0 37	17 21	0 52	12 5	16 42	9 45	9 17	17 51			n.a.
T 9	23 5	18 4	5 0	22 32	1 2	16 17	5 30	7 35	1 48	4 22	1 24	7 7	2 29	2 29	0 37	17 21	0 52	12 5	16 43	9 48	9 19	17 52			n.a.
F 10	22 59	19 9	4 33	22 50	0 48	16 10	5 43	7 49	1 48	4 24	1 24	7 8	2 30	2 30	0 37	17 22	0 52	12 5	16 43	9 51	9 20	17 53			n.a.
S 11	22 53	18 51	3 47	23 7	0 33	16 4	5 55	8 3	1 47	4 26	1 25	7 8	2 30	2 30	0 37	17 22	0 52	12 6	16 43	9 53	9 21	17 54			n.a.
S 12	22 47	17 16	2 47	23 22	0 20	15 58	6 6	8 17	1 47	4 28	1 25	7 9	2 30	2 31	0 37	17 22	0 52	12 6	16 44	9 55	9 22	17 55			n.a.
M13	22 40	14 34	1 36	23 36	0 6	15 52	6 17	8 30	1 47	4 29	1 25	7 9	2 30	2 31	0 37	17 23	0 52	12 6	16 44	9 57	9 23	17 56			n.a.
T 14	22 32	11 5	0 22	23 49	0n 7	15 47	6 28	8 44	1 47	4 31	1 25	7 10	2 31	2 32	0 37	17 23	0 52	12 7	16 44	9 57	9 24	17 56			n.a.
W15	22 25	7 6	0n52	23 59	0 19	15 43	6 37	8 58	1 46	4 33	1 26	7 11	2 31	2 32	0 36	17 24	0 52	12 7	16 45	9 57	9 26	17 57			n.a.
T 16	22 16	2 54	2 0	24 7	0 30	15 39	6 47	9 11	1 46	4 34	1 26	7 12	2 31	2 33	0 36	17 24	0 52	12 7	16 45	9 57	9 27	17 58			n.a.
F 17	22 8	1s18	3 1	24 13	0 41	15 35	6 55	9 24	1 46	4 35	1 26	7 12	2 32	2 34	0 36	17 25	0 52	12 8	16 45	9 56	9 28	17 59			n.a.
S 18	21 59	5 19	3 51	24 17	0 51	15 33	7 2	9 37	1 45	4 37	1 26	7 13	2 32	2 34	0 36	17 25	0 52	12 8	16 46	9 56	9 29	18 0			n.a.
S 19	21 50	9 3	4 29	24 18	1 0	15 30	7 9	9 50	1 45	4 38	1 27	7 14	2 32	2 35	0 36	17 26	0 52	12 8	16 46	9 56	9 30	18 1			n.a.
M20	21 40	12 20	4 55	24 16	1 9	15 29	7 15	10 3	1 44	4 39	1 27	7 15	2 32	2 36	0 36	17 26	0 52	12 9	16 46	9 57	9 32	18 1			n.a.
T 21	21 30	15 6	5 8	24 11	1 16	15 28	7 20	10 16	1 44	4 41	1 27	7 16	2 33	2 36	0 36	17 27	0 52	12 9	16 47	9 59	9 33	18 2			n.a.
W22	21 19	17 13	5 8	24 4	1 23	15 27	7 25	10 29	1 44	4 42	1 27	7 17	2 33	2 37	0 36	17 27	0 53	12 9	16 47	10 1	9 34	18 3			n.a.
T 23	21 8	18 36	4 54	23 54	1 29	15 27	7 28	10 41	1 43	4 43	1 28	7 18	2 33	2 38	0 36	17 28	0 53	12 10	16 47	10 4	9 35	18 4			n.a.
F 24	20 57	19 10	4 28	23 42	1 34	15 27	7 31	10 54	1 43	4 44	1 28	7 19	2 33	2 38	0 36	17 28	0 53	12 10	16 48	10 6	9 36	18 5			n.a.
S 25	20 46	18 53	3 49	23 27	1 38	15 28	7 33	11 6	1 42	4 44	1 28	7 20	2 34	2 39	0 36	17 28	0 53	12 10	16 48	10 8	9 37	18 5			n.a.
S 26	20 34	17 44	3 0	23 9	1 41	15 30	7 34	11 18	1 42	4 45	1 28	7 21	2 34	2 40	0 36	17 29	0 53	12 11	16 48	10 10	9 39	18 6			n.a.
M27	20 22	15 44	2 2	22 50	1 44	15 32	7 34	11 30	1 41	4 46	1 29	7 22	2 34	2 41	0 36	17 29	0 53	12 11	16 49	10 12	9 40	18 7			n.a.
T 28	20 9	12 59	0 57	22 27	1 46	15 34	7 34	11 42	1 41	4 47	1 29	7 24	2 34	2 42	0 36	17 30	0 53	12 12	16 49	10 12	9 41	18 8			n.a.
W29	19 56	9 36	0s12	22 3	1 47	15 37	7 33	11 54	1 40	4 47	1 29	7 25	2 35	2 42	0 36	17 30	0 53	12 12	16 49	10 13	9 42	18 9			n.a.
T 30	19 43	5 43	1 21	21 37	1 47	15 40	7 32	12 6	1 40	4 48	1 29	7 26	2 35	2 43	0 36	17 31	0 53	12 13	16 49	10 12	9 43	18 9			n.a.
F 31	19n29	1s30	2s28	21n 9	1n47	15n44	7s29	12n17	1s39	4n48	1s30	7s27	2s35	2s44	0n36	17s31	0s53	12s13	16s50	10n12	9n44	18s10			n.a.

Julian Day Number = 1675948.5, Delta T = 03h18m02s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'06, Lahiri = - 5°40'06 Julian Calendar 1 July 125 BCE == Greg. Calendar 28 June 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

AUGUST 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 26 34	4♌55'13	15♈13	6♌ 8	11°R27	7♉ 5	15♈33	17°R14	8♎13	14°R24	7°R59	3♍54	5♍ 4	18♐10	n.a.	S 1
S 2	20 30 31	5°53'18	28°50	8° 3	11♋16	7°38	15°34	17♓11	8°16	14♒23	7♈59	3°55	5° 0	18°17	n.a.	S 2
M 3	20 34 27	6°51'25	12♉45	9°57	11° 7	8°10	15°35	17° 8	8°18	14°21	7°58	3°R55	4°57	18°23	n.a.	M 3
T 4	20 38 24	7°49'34	26°57	11°50	11° 1	8°42	15°36	17° 5	8°20	14°20	7°58	3°54	4°54	18°30	n.a.	T 4
W 5	20 42 21	8°47'46	11♊25	13°42	10°57	9°14	15°37	17° 2	8°22	14°18	7°57	3°52	4°51	18°37	n.a.	W 5
T 6	20 46 17	9°46'00	26° 5	15°32	10°D56	9°46	15°37	16°59	8°25	14°16	7°57	3°49	4°48	18°44	n.a.	T 6
F 7	20 50 14	10°44'16	10♋50	17°22	10°56	10°17	15°37	16°55	8°27	14°15	7°56	3°46	4°45	18°50	n.a.	F 7
S 8	20 54 10	11°42'34	25°35	19°10	11° 0	10°48	15°R38	16°52	8°30	14°13	7°56	3°43	4°41	18°57	n.a.	S 8
S 9	20 58 7	12°40'54	10♌12	20°57	11° 5	11°19	15°37	16°48	8°32	14°11	7°55	3°41	4°38	19° 4	n.a.	S 9
M10	21 2 3	13°39'16	24°33	22°43	11°12	11°50	15°37	16°45	8°35	14°10	7°54	3°39	4°35	19°10	n.a.	M10
T 11	21 6 0	14°37'39	8♍34	24°28	11°22	12°20	15°37	16°41	8°37	14° 8	7°54	3°D39	4°32	19°17	n.a.	T 11
W12	21 9 56	15°36'05	22°12	26°12	11°34	12°50	15°36	16°38	8°40	14° 6	7°53	3°40	4°29	19°24	n.a.	W12
T 13	21 13 53	16°34'32	5♎25	27°54	11°48	13°20	15°35	16°34	8°42	14° 5	7°53	3°41	4°25	19°31	n.a.	T 13
F 14	21 17 49	17°33'01	18°16	29°36	12° 4	13°49	15°34	16°30	8°45	14° 3	7°52	3°43	4°22	19°37	n.a.	F 14
S 15	21 21 46	18°31'31	0♏47	1♍16	12°22	14°18	15°32	16°26	8°48	14° 1	7°51	3°44	4°19	19°44	n.a.	S 15
S 16	21 25 43	19°30'04	13° 2	2°55	12°41	14°47	15°31	16°22	8°50	14° 0	7°51	3°44	4°16	19°51	n.a.	S 16
M17	21 29 39	20°28'38	25° 5	4°33	13° 3	15°15	15°29	16°18	8°53	13°58	7°50	3°R44	4°13	19°57	n.a.	M17
T 18	21 33 36	21°27'14	7♐ 1	6°10	13°26	15°43	15°27	16°14	8°56	13°56	7°49	3°44	4°10	20° 4	n.a.	T 18
W19	21 37 32	22°25'52	18°53	7°47	13°51	16°10	15°25	16°10	8°59	13°55	7°48	3°43	4° 6	20°11	n.a.	W19
T 20	21 41 29	23°24'32	0♑47	9°22	14°18	16°38	15°23	16° 6	9° 2	13°53	7°48	3°42	4° 3	20°18	n.a.	T 20
F 21	21 45 25	24°23'13	12°47	10°56	14°46	17° 5	15°20	16° 2	9° 5	13°52	7°47	3°40	4° 0	20°24	n.a.	F 21
S 22	21 49 22	25°21'57	24°54	12°29	15°16	17°31	15°17	15°58	9° 8	13°50	7°46	3°39	3°57	20°31	n.a.	S 22
S 23	21 53 18	26°20'42	7♒13	14° 1	15°47	17°58	15°15	15°53	9°11	13°48	7°45	3°38	3°54	20°38	n.a.	S 23
M24	21 57 15	27°19'29	19°44	15°32	16°20	18°23	15°11	15°49	9°14	13°47	7°44	3°37	3°51	20°45	n.a.	M24
T 25	22 1 12	28°18'19	2♓29	17° 2	16°54	18°49	15° 8	15°45	9°17	13°45	7°44	3°D37	3°47	20°51	n.a.	T 25
W26	22 5 8	29°17'10	15°28	18°31	17°30	19°14	15° 5	15°40	9°20	13°44	7°43	3°37	3°44	20°58	n.a.	W26
T 27	22 9 5	0♍16'04	28°40	19°59	18° 7	19°39	15° 1	15°36	9°23	13°42	7°42	3°38	3°41	21° 5	n.a.	T 27
F 28	22 13 1	1°15'00	12♈ 6	21°26	18°45	20° 3	14°57	15°31	9°26	13°40	7°41	3°38	3°38	21°11	n.a.	F 28
S 29	22 16 58	2°13'58	25°44	22°52	19°24	20°27	14°53	15°27	9°29	13°39	7°40	3°38	3°35	21°18	n.a.	S 29
S 30	22 20 54	3°12'59	9♉34	24°17	20° 4	20°50	14°49	15°22	9°32	13°37	7°39	3°38	3°31	21°25	n.a.	S 30
M31	22 24 51	4♍12'02	23♉34	25♍41	20♋46	21♉13	14♈44	15♓17	9♎36	13♒36	7♈38	3°R38	3♍28	21♐32	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n15	2n52	3s28	20n40	1n46	15n47	7s27	12n28	1s39	4n48	1s30	7s29	2s35	2s45	0n36	17s32	0s53	12s13	16s50	10n11	9n46	18s11		n.a.
S 2	19 1	7 11	4 17	20 9	1 45	15 52	7 23	12 40	1 38	4 49	1 30	7 30	2 36	2 46	0 36	17 32	0 53	12 14	16 50	10 11	9 47	18 12		n.a.
M 3	18 46	11 11	4 53	19 36	1 43	15 56	7 19	12 51	1 38	4 49	1 30	7 31	2 36	2 47	0 36	17 33	0 53	12 14	16 51	10 11	9 48	18 12		n.a.
T 4	18 31	14 38	5 12	19 3	1 41	16 1	7 15	13 2	1 37	4 49	1 31	7 33	2 36	2 48	0 36	17 33	0 53	12 15	16 51	10 11	9 49	18 13		n.a.
W 5	18 16	17 16	5 11	18 28	1 38	16 6	7 10	13 13	1 37	4 49	1 31	7 34	2 36	2 49	0 36	17 34	0 53	12 15	16 51	10 12	9 50	18 14		n.a.
T 6	18 0	18 48	4 51	17 52	1 34	16 11	7 5	13 23	1 36	4 49	1 31	7 36	2 37	2 50	0 36	17 34	0 53	12 16	16 52	10 13	9 52	18 15		n.a.
F 7	17 44	19 6	4 11	17 15	1 31	16 17	7 0	13 34	1 35	4 49	1 31	7 37	2 37	2 51	0 36	17 35	0 53	12 16	16 52	10 14	9 53	18 16		n.a.
S 8	17 28	18 5	3 14	16 37	1 27	16 22	6 54	13 44	1 35	4 49	1 32	7 39	2 37	2 52	0 36	17 35	0 53	12 17	16 52	10 15	9 54	18 16		n.a.
S 9	17 12	15 52	2 6	15 58	1 22	16 28	6 48	13 54	1 34	4 48	1 32	7 40	2 37	2 53	0 36	17 36	0 53	12 17	16 52	10 16	9 55	18 17		n.a.
M10	16 55	12 42	0 50	15 19	1 17	16 34	6 41	14 5	1 33	4 48	1 32	7 42	2 37	2 54	0 36	17 36	0 53	12 18	16 53	10 17	9 56	18 18		n.a.
T 11	16 38	8 52	0n27	14 39	1 12	16 40	6 35	14 14	1 33	4 48	1 32	7 44	2 38	2 55	0 36	17 37	0 53	12 18	16 53	10 17	9 57	18 19		n.a.
W12	16 20	4 40	1 41	13 58	1 7	16 45	6 28	14 24	1 32	4 47	1 32	7 45	2 38	2 56	0 36	17 37	0 53	12 18	16 53	10 16	9 59	18 19		n.a.
T 13	16 3	0 22	2 47	13 18	1 1	16 51	6 21	14 34	1 31	4 47	1 33	7 47	2 38	2 57	0 35	17 38	0 53	12 19	16 53	10 16	10 0	18 20		n.a.
F 14	15 45	3s49	3 42	12 36	0 55	16 57	6 14	14 44	1 30	4 46	1 33	7 48	2 38	2 58	0 35	17 38	0 53	12 19	16 54	10 16	10 1	18 21		n.a.
S 15	15 27	7 44	4 26	11 55	0 49	17 3	6 6	14 53	1 30	4 45	1 33	7 50	2 38	2 59	0 35	17 39	0 53	12 20	16 54	10 15	10 2	18 22		n.a.
S 16	15 8	11 13	4 56	11 13	0 43	17 9	5 59	15 2	1 29	4 44	1 33	7 52	2 39	3 0	0 35	17 39	0 53	12 20	16 54	10 15	10 3	18 22		n.a.
M17	14 50	14 11	5 13	10 31	0 36	17 14	5 51	15 11	1 28	4 43	1 34	7 54	2 39	3 1	0 35	17 40	0 53	12 21	16 54	10 15	10 4	18 23		n.a.
T 18	14 31	16 32	5 16	9 48	0 30	17 20	5 43	15 20	1 27	4 43	1 34	7 55	2 39	3 2	0 35	17 40	0 53	12 21	16 55	10 15	10 6	18 24		n.a.
W19	14 11	18 10	5 5	9 6	0 23	17 25	5 35	15 29	1 26	4 41	1 34	7 57	2 39	3 4	0 35	17 41	0 53	12 22	16 55	10 15	10 7	18 24		n.a.
T 20	13 52	19 1	4 42	8 24	0 16	17 30	5 27	15 38	1 26	4 40	1 34	7 59	2 39	3 5	0 35	17 41	0 53	12 22	16 55	10 16	10 8	18 25		n.a.
F 21	13 32	19 0	4 6	7 41	0 9	17 35	5 19	15 46	1 25	4 39	1 35	8 1	2 39	3 6	0 35	17 42	0 53	12 23	16 55	10 16	10 9	18 26		n.a.
S 22	13 13	18 8	3 18	6 59	0 2	17 40	5 11	15 55	1 24	4 38	1 35	8 3	2 39	3 7	0 35	17 42	0 53	12 24	16 56	10 17	10 10	18 27		n.a.
S 23	12 53	16 24	2 21	6 16	0s 6	17 44	5 3	16 3	1 23	4 37	1 35	8 4	2 40	3 8	0 35	17 43	0 53	12 24	16 56	10 17	10 11	18 27		n.a.
M24	12 32	13 51	1 16	5 34	0 13	17 49	4 55	16 11	1 22	4 35	1 35	8 6	2 40	3 10	0 35	17 43	0 53	12 25	16 56	10 17	10 13	18 28		n.a.
T 25	12 12	10 36	0 6	4 52	0 21	17 53	4 47	16 19	1 21	4 34	1 35	8 8	2 40	3 11	0 35	17 44	0 53	12 25	16 56	10 17	10 14	18 29		n.a.
W26	11 51	6 48	1s 5	4 10	0 28	17 56	4 39	16 27	1 20	4 32	1 36	8 10	2 40	3 12	0 35	17 44	0 53	12 26	16 57	10 17	10 15	18 30		n.a.
T 27	11 30	2 35	2 15	3 28	0 36	18 0	4 31	16 34	1 19	4 31	1 36	8 12	2 40	3 13	0 35	17 45	0 53	12 26	16 57	10 17	10 16	18 30		n.a.
F 28	11 9	1n48	3 18	2 46	0 43	18 3	4 23	16 42	1 18	4 29	1 36	8 14	2 40	3 15	0 35	17 45	0 53	12 27	16 57	10 17	10 17	18 31		n.a.
S 29	10 48	6 10	4 11	2 5	0 51	18 5	4 14	16 49	1 17	4 27	1 36	8 16	2 40	3 16	0 35	17 45	0 53	12 27	16 57	10 17	10 18	18 32		n.a.
S 30	10 26	10 16	4 50	1 24	0 58	18 8	4 6	16 57	1 16	4 25	1 36	8 17	2 40	3 17	0 35	17 46	0 53	12 28	16 57	10 17	10 20	18 32		n.a.
M31	10n 5	13n50	5s12	0n44	1s 6	18n10	3s58	17n 4	1s15	4n23	1s37	8s19	2s41	3s18	0n35	17s46	0s53	12s28	16s57	10n17	10n21	18s33		n.a.

Julian Day Number = 1675979.5, Delta T = 03h18m01s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°47'02, Lahiri = - 5°40'01 Julian Calendar 1 Aug. 125 BCE == Greg. Calendar 29 July 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

SEPTEMBER 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 28 47	5♍11'07	7♊42	27♍ 3	21♋28	21♉36	14°R40	15°R13	9♎39	13°R34	7°R37	3°D38	3♍25	21♐38	n.a.	T 1
W 2	22 32 44	6°10'15	21°57	28°25	22°12	21°58	14♈35	15♓ 8	9°42	13♒33	7♈37	3♍38	3°22	21°45	n.a.	W 2
T 3	22 36 41	7° 9'26	6♋15	29°46	22°57	22°19	14°30	15° 3	9°45	13°31	7°36	3°38	3°19	21°52	n.a.	T 3
F 4	22 40 37	8° 8'39	20°35	1♎ 5	23°42	22°40	14°25	14°59	9°49	13°30	7°35	3°39	3°16	21°58	n.a.	F 4
S 5	22 44 34	9° 7'54	4♌52	2°23	24°29	23° 1	14°20	14°54	9°52	13°28	7°34	3°39	3°12	22° 5	n.a.	S 5
S 6	22 48 30	10° 7'12	19° 1	3°40	25°16	23°21	14°14	14°49	9°55	13°27	7°33	3°40	3° 9	22°12	n.a.	S 6
M 7	22 52 27	11° 6'32	3♍ 0	4°55	26° 5	23°40	14° 9	14°44	9°59	13°26	7°32	3°R40	3° 6	22°19	n.a.	M 7
T 8	22 56 23	12° 5'54	16°44	6° 9	26°54	24° 0	14° 3	14°40	10° 2	13°24	7°31	3°40	3° 3	22°25	n.a.	T 8
W 9	23 0 20	13° 5'18	0♎11	7°21	27°44	24°18	13°57	14°35	10° 6	13°23	7°30	3°39	3° 0	22°32	n.a.	W 9
T 10	23 4 16	14° 4'44	13°19	8°31	28°34	24°36	13°51	14°30	10° 9	13°21	7°29	3°38	2°57	22°39	n.a.	T 10
F 11	23 8 13	15° 4'12	26° 9	9°40	29°26	24°53	13°45	14°25	10°13	13°20	7°28	3°36	2°53	22°45	n.a.	F 11
S 12	23 12 9	16° 3'42	8♏40	10°46	0♌18	25°10	13°38	14°21	10°16	13°19	7°27	3°35	2°50	22°52	n.a.	S 12
S 13	23 16 6	17° 3'14	20°56	11°51	1°11	25°26	13°32	14°16	10°20	13°17	7°26	3°33	2°47	22°59	n.a.	S 13
M14	23 20 3	18° 2'48	3♐ 0	12°53	2° 4	25°42	13°25	14°11	10°23	13°16	7°24	3°32	2°44	23° 6	n.a.	M14
T 15	23 23 59	19° 2'24	14°56	13°52	2°58	25°57	13°19	14° 6	10°27	13°15	7°23	3°D31	2°41	23°12	n.a.	T 15
W16	23 27 56	20° 2'02	26°48	14°49	3°53	26°11	13°12	14° 1	10°30	13°14	7°22	3°31	2°37	23°19	n.a.	W16
T 17	23 31 52	21° 1'42	8♑42	15°42	4°48	26°25	13° 5	13°57	10°34	13°12	7°21	3°32	2°34	23°26	n.a.	T 17
F 18	23 35 49	22° 1'23	20°42	16°32	5°44	26°38	12°58	13°52	10°38	13°11	7°20	3°33	2°31	23°32	n.a.	F 18
S 19	23 39 45	23° 1'06	2♒52	17°19	6°41	26°51	12°50	13°47	10°41	13°10	7°19	3°35	2°28	23°39	n.a.	S 19
S 20	23 43 42	24° 0'52	15°17	18° 1	7°38	27° 3	12°43	13°43	10°45	13° 9	7°18	3°36	2°25	23°46	n.a.	S 20
M21	23 47 38	25° 0'39	27°59	18°38	8°35	27°14	12°36	13°38	10°48	13° 8	7°17	3°R37	2°22	23°53	n.a.	M21
T 22	23 51 35	26° 0'28	10♓59	19°10	9°33	27°24	12°28	13°33	10°52	13° 7	7°16	3°37	2°18	23°59	n.a.	T 22
W23	23 55 32	27° 0'19	24°19	19°37	10°32	27°34	12°21	13°29	10°56	13° 5	7°15	3°36	2°15	24° 6	n.a.	W23
T 24	23 59 28	28° 0'11	7♈58	19°58	11°31	27°43	12°13	13°24	10°59	13° 4	7°14	3°34	2°12	24°13	n.a.	T 24
F 25	0 3 25	29° 0'06	21°52	20°12	12°31	27°52	12° 5	13°20	11° 3	13° 3	7°12	3°30	2° 9	24°19	n.a.	F 25
S 26	0 7 21	0♎ 0'04	5♉58	20°R18	13°31	27°59	11°57	13°15	11° 7	13° 2	7°11	3°26	2° 6	24°26	n.a.	S 26
S 27	0 11 18	1° 0'03	20°12	20°17	14°31	28° 6	11°50	13°11	11°11	13° 1	7°10	3°22	2° 2	24°33	n.a.	S 27
M28	0 15 14	2° 0'05	4♊29	20° 8	15°32	28°12	11°42	13° 7	11°14	13° 0	7° 9	3°19	1°59	24°40	n.a.	M28
T 29	0 19 11	3° 0'09	18°45	19°49	16°33	28°18	11°34	13° 2	11°18	12°59	7° 8	3°17	1°56	24°46	n.a.	T 29
W30	0 23 7	4♎ 0'15	2♋58	19♎21	17♌35	28♉22	11♈26	12♓58	11♎22	12♒59	7♈ 7	3°D16	1♍53	24♐53	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n43	16n38	5s16	0n 4	1s14	18n11	3s50	17n11	1s14	4n22	1s37	8s21	2s41	3s20	0n35	17s47	0s53	12s29	16s58	10n17	10n22	18s34		n.a.
W 2	9 21	18 27	5 1	0s36	1 21	18 12	3 42	17 18	1 13	4 19	1 37	8 23	2 41	3 21	0 35	17 47	0 53	12 29	16 58	10 17	10 23	18 34		n.a.
T 3	8 59	19 6	4 27	1 15	1 29	18 13	3 34	17 24	1 11	4 17	1 37	8 25	2 41	3 22	0 35	17 48	0 53	12 30	16 58	10 17	10 24	18 35		n.a.
F 4	8 37	18 32	3 37	1 54	1 36	18 13	3 26	17 31	1 10	4 15	1 37	8 27	2 41	3 24	0 35	17 48	0 53	12 30	16 58	10 17	10 25	18 36		n.a.
S 5	8 14	16 47	2 33	2 32	1 43	18 13	3 18	17 37	1 9	4 13	1 37	8 29	2 41	3 25	0 35	17 49	0 53	12 31	16 58	10 17	10 27	18 36		n.a.
S 6	7 52	14 1	1 20	3 9	1 51	18 12	3 10	17 43	1 8	4 11	1 37	8 31	2 41	3 26	0 35	17 49	0 53	12 31	16 58	10 17	10 28	18 37		n.a.
M 7	7 29	10 28	0 4	3 46	1 58	18 11	3 3	17 50	1 7	4 8	1 38	8 33	2 41	3 28	0 35	17 49	0 53	12 32	16 59	10 16	10 29	18 38		n.a.
T 8	7 6	6 24	1n12	4 22	2 5	18 9	2 55	17 56	1 5	4 6	1 38	8 35	2 41	3 29	0 35	17 50	0 53	12 32	16 59	10 17	10 30	18 38		n.a.
W 9	6 43	2 5	2 22	4 57	2 11	18 7	2 47	18 1	1 4	4 4	1 38	8 37	2 41	3 31	0 35	17 50	0 53	12 33	16 59	10 17	10 31	18 39		n.a.
T 10	6 20	2s13	3 22	5 31	2 18	18 5	2 39	18 7	1 3	4 1	1 38	8 38	2 41	3 32	0 35	17 51	0 53	12 33	16 59	10 17	10 32	18 40		n.a.
F 11	5 57	6 18	4 11	6 5	2 24	18 1	2 32	18 13	1 1	3 59	1 38	8 40	2 41	3 33	0 35	17 51	0 53	12 34	16 59	10 18	10 33	18 40		n.a.
S 12	5 33	10 1	4 47	6 37	2 31	17 58	2 24	18 18	1 0	3 56	1 38	8 42	2 41	3 35	0 35	17 51	0 53	12 34	16 59	10 18	10 35	18 41		n.a.
S 13	5 10	13 14	5 8	7 8	2 36	17 54	2 17	18 23	0 59	3 53	1 38	8 44	2 41	3 36	0 35	17 52	0 53	12 35	16 59	10 19	10 36	18 42		n.a.
M14	4 47	15 49	5 16	7 37	2 42	17 49	2 10	18 28	0 57	3 51	1 38	8 46	2 41	3 38	0 35	17 52	0 53	12 35	16 59	10 19	10 37	18 42		n.a.
T 15	4 23	17 43	5 10	8 6	2 47	17 44	2 2	18 33	0 56	3 48	1 39	8 48	2 41	3 39	0 35	17 52	0 53	12 36	17 0	10 20	10 38	18 43		n.a.
W16	3 59	18 50	4 50	8 32	2 52	17 38	1 55	18 38	0 54	3 45	1 39	8 50	2 41	3 40	0 35	17 53	0 53	12 36	17 0	10 20	10 39	18 44		n.a.
T 17	3 36	19 7	4 19	8 57	2 57	17 32	1 48	18 43	0 53	3 42	1 39	8 52	2 41	3 42	0 35	17 53	0 53	12 37	17 0	10 19	10 40	18 44		n.a.
F 18	3 12	18 33	3 35	9 21	3 0	17 25	1 41	18 48	0 51	3 40	1 39	8 53	2 41	3 43	0 35	17 53	0 53	12 37	17 0	10 19	10 42	18 45		n.a.
S 19	2 48	17 7	2 42	9 42	3 4	17 18	1 34	18 52	0 50	3 37	1 39	8 55	2 41	3 45	0 35	17 54	0 53	12 38	17 0	10 18	10 43	18 46		n.a.
S 20	2 24	14 51	1 39	10 1	3 7	17 10	1 27	18 56	0 48	3 34	1 39	8 57	2 41	3 46	0 35	17 54	0 53	12 38	17 0	10 18	10 44	18 46		n.a.
M21	2 0	11 50	0 31	10 17	3 9	17 2	1 20	19 1	0 46	3 31	1 39	8 59	2 41	3 48	0 35	17 54	0 53	12 39	17 0	10 17	10 45	18 47		n.a.
T 22	1 36	8 9	0s40	10 31	3 10	16 53	1 14	19 5	0 45	3 28	1 39	9 1	2 41	3 49	0 35	17 55	0 53	12 39	17 0	10 17	10 46	18 47		n.a.
W23	1 12	3 59	1 51	10 42	3 11	16 43	1 7	19 9	0 43	3 25	1 39	9 2	2 41	3 51	0 35	17 55	0 53	12 40	17 0	10 18	10 47	18 48		n.a.
T 24	0 48	0n29	2 58	10 49	3 10	16 33	1 1	19 12	0 41	3 22	1 39	9 4	2 41	3 52	0 35	17 55	0 53	12 40	17 0	10 19	10 48	18 49		n.a.
F 25	0 24	4 59	3 55	10 53	3 9	16 23	0 54	19 16	0 39	3 19	1 39	9 6	2 41	3 53	0 35	17 56	0 53	12 41	17 0	10 20	10 50	18 49		n.a.
S 26	0s 0	9 17	4 38	10 53	3 6	16 11	0 48	19 20	0 37	3 16	1 39	9 7	2 41	3 55	0 35	17 56	0 53	12 41	17 0	10 21	10 51	18 50		n.a.
S 27	0 24	13 6	5 5	10 49	3 2	16 0	0 42	19 23	0 36	3 12	1 39	9 9	2 41	3 56	0 35	17 56	0 53	12 42	17 0	10 23	10 52	18 51		n.a.
M28	0 48	16 9	5 13	10 40	2 56	15 48	0 36	19 26	0 34	3 9	1 39	9 11	2 41	3 58	0 35	17 56	0 53	12 42	17 0	10 24	10 53	18 51		n.a.
T 29	1 12	18 13	5 2	10 26	2 49	15 35	0 29	19 29	0 32	3 6	1 39	9 12	2 41	3 59	0 35	17 57	0 53	12 43	17 0	10 25	10 54	18 52		n.a.
W30	1s37	19n 8	4s32	10s 7	2s40	15n22	0s24	19n32	0s30	3n 3	1s39	9s14	2s41	4s 1	0n35	17s57	0s53	12s43	17s 0	10n25	10n55	18s52		n.a.

Julian Day Number = 1676010.5, Delta T = 03h18m00s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'58, Lahiri = - 5°39'57 Julian Calendar 1 Sept. 125 BCE == Greg. Calendar 29 Aug. 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

OCTOBER 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 27 4	5♎ 0'24	17♋ 5	18°R44	18♌37	28♉26	11°R18	12°R54	11♎25	12°R58	7°R 6	3♍17	1♍50	25♐ 0	n.a.	T 1
F 2	0 31 0	6° 0'35	1♌ 4	17♎57	19°40	28°29	11♈ 9	12♓49	11°29	12♒57	7♈ 4	3°18	1°47	25° 6	n.a.	F 2
S 3	0 34 57	7° 0'47	14°55	17° 2	20°43	28°31	11° 1	12°45	11°33	12°56	7° 3	3°20	1°43	25°13	n.a.	S 3
S 4	0 38 54	8° 1'03	28°37	15°59	21°46	28°32	10°53	12°41	11°37	12°55	7° 2	3°R21	1°40	25°20	n.a.	S 4
M 5	0 42 50	9° 1'20	12♍ 9	14°49	22°49	28°R33	10°45	12°37	11°40	12°54	7° 1	3°20	1°37	25°27	n.a.	M 5
T 6	0 46 47	10° 1'39	25°29	13°33	23°53	28°32	10°37	12°33	11°44	12°54	7° 0	3°18	1°34	25°33	n.a.	T 6
W 7	0 50 43	11° 2'00	8♎37	12°15	24°57	28°31	10°29	12°29	11°48	12°53	6°59	3°14	1°31	25°40	n.a.	W 7
T 8	0 54 40	12° 2'23	21°31	10°56	26° 2	28°29	10°20	12°25	11°52	12°52	6°58	3° 8	1°28	25°47	n.a.	T 8
F 9	0 58 36	13° 2'47	4♏11	9°39	27° 7	28°26	10°12	12°22	11°56	12°52	6°57	3° 1	1°24	25°53	n.a.	F 9
S 10	1 2 33	14° 3'14	16°37	8°26	28°12	28°22	10° 4	12°18	11°59	12°51	6°55	2°54	1°21	26° 0	n.a.	S 10
S 11	1 6 29	15° 3'41	28°50	7°20	29°17	28°17	9°56	12°14	12° 3	12°51	6°54	2°46	1°18	26° 7	n.a.	S 11
M12	1 10 26	16° 4'11	10♐53	6°23	0♍23	28°11	9°48	12°11	12° 7	12°50	6°53	2°39	1°15	26°13	n.a.	M12
T 13	1 14 23	17° 4'42	22°47	5°35	1°29	28° 5	9°40	12° 7	12°11	12°50	6°52	2°34	1°12	26°20	n.a.	T 13
W14	1 18 19	18° 5'15	4♑38	4°59	2°35	27°57	9°32	12° 4	12°14	12°49	6°51	2°31	1° 8	26°27	n.a.	W14
T 15	1 22 16	19° 5'49	16°30	4°35	3°42	27°49	9°24	12° 1	12°18	12°49	6°50	2°D30	1° 5	26°34	n.a.	T 15
F 16	1 26 12	20° 6'24	28°27	4°22	4°48	27°40	9°16	11°57	12°22	12°48	6°49	2°30	1° 2	26°40	n.a.	F 16
S 17	1 30 9	21° 7'00	10♒35	4°D20	5°55	27°30	9° 8	11°54	12°26	12°48	6°48	2°31	0°59	26°47	n.a.	S 17
S 18	1 34 5	22° 7'38	23° 0	4°30	7° 3	27°19	9° 0	11°51	12°29	12°47	6°46	2°33	0°56	26°54	n.a.	S 18
M19	1 38 2	23° 8'17	5♓44	4°50	8°10	27° 7	8°53	11°48	12°33	12°47	6°45	2°R33	0°53	27° 0	n.a.	M19
T 20	1 41 58	24° 8'58	18°53	5°19	9°18	26°55	8°45	11°45	12°37	12°47	6°44	2°32	0°49	27° 7	n.a.	T 20
W21	1 45 55	25° 9'40	2♈27	5°56	10°25	26°41	8°38	11°43	12°40	12°47	6°43	2°28	0°46	27°14	n.a.	W21
T 22	1 49 51	26°10'23	16°25	6°41	11°34	26°27	8°30	11°40	12°44	12°46	6°42	2°22	0°43	27°21	n.a.	T 22
F 23	1 53 48	27°11'07	0♉45	7°33	12°42	26°12	8°23	11°37	12°48	12°46	6°41	2°14	0°40	27°27	n.a.	F 23
S 24	1 57 45	28°11'53	15°20	8°30	13°50	25°57	8°15	11°35	12°51	12°46	6°40	2° 5	0°37	27°34	n.a.	S 24
S 25	2 1 41	29°12'41	0♊ 4	9°33	14°59	25°40	8° 8	11°32	12°55	12°46	6°39	1°56	0°33	27°41	n.a.	S 25
M26	2 5 38	0♏13'30	14°47	10°40	16° 8	25°23	8° 1	11°30	12°59	12°46	6°38	1°48	0°30	27°47	n.a.	M26
T 27	2 9 34	1°14'21	29°24	11°51	17°17	25° 5	7°54	11°28	13° 2	12°46	6°37	1°41	0°27	27°54	n.a.	T 27
W28	2 13 31	2°15'13	13♋48	13° 5	18°26	24°47	7°48	11°26	13° 6	12°D46	6°36	1°37	0°24	28° 1	n.a.	W28
T 29	2 17 27	3°16'07	27°57	14°22	19°36	24°28	7°41	11°24	13°10	12°46	6°35	1°D36	0°21	28° 8	n.a.	T 29
F 30	2 21 24	4°17'02	11♌50	15°41	20°45	24° 8	7°34	11°22	13°13	12°46	6°34	1°36	0°18	28°14	n.a.	F 30
S 31	2 25 21	5♏17'59	25♌26	17♎ 3	21♍55	23♉48	7♈28	11♓20	13♎17	12♒46	6♈33	1°R37	0♍14	28♐21	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	2s 1	18n52	3s46	9s43	2s30	15n 8	0s18	19n35	0s28	3n 0	1s39	9s16	2s41	4s 2	0n34	17s57	0s53	12s44	17s 0	10n25	10n57	18s53			n.a.
F 2	2 25	17 26	2 47	9 14	2 17	14 54	0 12	19 38	0 26	2 57	1 39	9 17	2 40	4 4	0 34	17 57	0 53	12 44	17 0	10 25	10 58	18 54			n.a.
S 3	2 49	14 58	1 39	8 39	2 3	14 39	0 6	19 40	0 24	2 53	1 39	9 19	2 40	4 5	0 34	17 58	0 53	12 44	17 0	10 24	10 59	18 54			n.a.
S 4	3 13	11 41	0 26	8 0	1 47	14 24	0 1	19 42	0 22	2 50	1 39	9 20	2 40	4 7	0 34	17 58	0 53	12 45	17 0	10 24	11 0	18 55			n.a.
M 5	3 37	7 49	0n48	7 16	1 29	14 8	0n 4	19 45	0 19	2 47	1 39	9 22	2 40	4 8	0 34	17 58	0 53	12 45	17 0	10 24	11 1	18 55			n.a.
T 6	4 1	3 37	1 58	6 29	1 10	13 52	0 10	19 47	0 17	2 44	1 39	9 23	2 40	4 10	0 34	17 58	0 53	12 46	17 0	10 24	11 2	18 56			n.a.
W 7	4 25	0s42	3 0	5 40	0 50	13 35	0 15	19 48	0 15	2 41	1 39	9 24	2 40	4 11	0 34	17 58	0 53	12 46	17 0	10 26	11 3	18 56			n.a.
T 8	4 49	4 54	3 52	4 50	0 30	13 18	0 20	19 50	0 13	2 38	1 39	9 26	2 40	4 13	0 34	17 59	0 53	12 47	17 0	10 28	11 5	18 57			n.a.
F 9	5 12	8 48	4 31	4 0	0 9	13 0	0 25	19 52	0 11	2 34	1 39	9 27	2 40	4 14	0 34	17 59	0 53	12 47	17 0	10 31	11 6	18 58			n.a.
S 10	5 36	12 15	4 57	3 13	0n11	12 42	0 30	19 53	0 8	2 31	1 39	9 28	2 40	4 16	0 34	17 59	0 53	12 47	17 0	10 33	11 7	18 58			n.a.
S 11	6 0	15 7	5 8	2 28	0 31	12 23	0 35	19 54	0 6	2 28	1 39	9 30	2 39	4 17	0 34	17 59	0 53	12 48	17 0	10 36	11 8	18 59			n.a.
M12	6 23	17 17	5 6	1 48	0 49	12 4	0 39	19 55	0 3	2 25	1 38	9 31	2 39	4 19	0 34	17 59	0 53	12 48	17 0	10 39	11 9	18 59			n.a.
T 13	6 47	18 41	4 50	1 14	1 7	11 45	0 44	19 56	0 1	2 22	1 38	9 32	2 39	4 20	0 34	17 59	0 53	12 48	17 0	10 40	11 10	19 0			n.a.
W14	7 10	19 16	4 22	0 45	1 22	11 25	0 48	19 57	0n 1	2 19	1 38	9 33	2 39	4 22	0 34	18 0	0 53	12 49	17 0	10 42	11 11	19 0			n.a.
T 15	7 34	19 0	3 43	0 23	1 36	11 5	0 52	19 57	0 4	2 16	1 38	9 34	2 39	4 23	0 34	18 0	0 53	12 49	17 0	10 42	11 13	19 1			n.a.
F 16	7 57	17 52	2 53	0 7	1 47	10 44	0 57	19 58	0 6	2 13	1 38	9 36	2 39	4 25	0 34	18 0	0 52	12 50	17 0	10 42	11 14	19 2			n.a.
S 17	8 20	15 55	1 56	0n 3	1 57	10 23	1 1	19 58	0 9	2 10	1 38	9 37	2 39	4 26	0 34	18 0	0 52	12 50	16 59	10 41	11 15	19 2			n.a.
S 18	8 43	13 12	0 51	0 6	2 5	10 1	1 5	19 58	0 12	2 7	1 38	9 38	2 38	4 28	0 34	18 0	0 52	12 50	16 59	10 41	11 16	19 3			n.a.
M19	9 5	9 46	0s17	0 4	2 12	9 39	1 8	19 58	0 14	2 4	1 37	9 39	2 38	4 29	0 34	18 0	0 52	12 51	16 59	10 41	11 17	19 3			n.a.
T 20	9 28	5 46	1 27	0s 3	2 16	9 17	1 12	19 57	0 17	2 1	1 37	9 40	2 38	4 31	0 34	18 0	0 52	12 51	16 59	10 41	11 18	19 4			n.a.
W21	9 51	1 21	2 33	0 15	2 20	8 54	1 16	19 57	0 19	1 58	1 37	9 41	2 38	4 32	0 34	18 0	0 52	12 51	16 59	10 43	11 19	19 4			n.a.
T 22	10 13	3n15	3 33	0 31	2 22	8 31	1 19	19 56	0 22	1 56	1 37	9 41	2 38	4 33	0 34	18 0	0 52	12 51	16 59	10 45	11 21	19 5			n.a.
F 23	10 35	7 48	4 20	0 51	2 23	8 8	1 22	19 55	0 25	1 53	1 37	9 42	2 37	4 35	0 34	18 0	0 52	12 52	16 59	10 48	11 22	19 5			n.a.
S 24	10 57	11 58	4 52	1 14	2 22	7 44	1 26	19 54	0 27	1 50	1 37	9 43	2 37	4 36	0 34	18 0	0 52	12 52	16 59	10 51	11 23	19 6			n.a.
S 25	11 19	15 26	5 5	1 40	2 21	7 20	1 29	19 53	0 30	1 47	1 36	9 44	2 37	4 38	0 34	18 0	0 52	12 52	16 58	10 54	11 24	19 6			n.a.
M26	11 41	17 55	4 57	2 8	2 19	6 56	1 32	19 51	0 33	1 45	1 36	9 45	2 37	4 39	0 34	18 0	0 52	12 53	16 58	10 57	11 25	19 7			n.a.
T 27	12 2	19 12	4 30	2 39	2 17	6 32	1 35	19 50	0 36	1 42	1 36	9 45	2 37	4 41	0 34	18 0	0 52	12 53	16 58	11 0	11 26	19 7			n.a.
W28	12 23	19 14	3 46	3 11	2 13	6 7	1 37	19 48	0 38	1 40	1 36	9 46	2 36	4 42	0 34	18 0	0 52	12 53	16 58	11 1	11 27	19 8			n.a.
T 29	12 45	18 2	2 49	3 45	2 9	5 42	1 40	19 46	0 41	1 37	1 35	9 46	2 36	4 43	0 34	18 0	0 52	12 53	16 58	11 2	11 28	19 8			n.a.
F 30	13 5	15 47	1 44	4 20	2 5	5 16	1 43	19 43	0 44	1 35	1 35	9 47	2 36	4 45	0 34	18 0	0 52	12 54	16 58	11 2	11 30	19 9			n.a.
S 31	13s26	12n40	0s33	4s56	2n 0	4n51	1n45	19n41	0n47	1n33	1s35	9s47	2s36	4s46	0n34	18s 0	0s52	12s54	16s57	11n 1	11n31	19s 9			n.a.

Julian Day Number = 1676040.5, Delta T = 03h17m59s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'54, Lahiri = - 5°39'53 Julian Calendar 1 Oct. 125 BCE == Greg. Calendar 28 Sept. 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

NOVEMBER 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 29 17	6♏18'57	8♍48	18♎26	23♍ 5	23°R27	7°R22	11°R18	13♎20	12♒46	6°R32	1°R36	0♍11	28♐28	n.a.	S 1
M 2	2 33 14	7°19'57	21°57	19°51	24°15	23♉ 5	7♈16	11♓17	13°24	12°46	6♈31	1♍35	0° 8	28°34	n.a.	M 2
T 3	2 37 10	8°20'58	4♎54	21°17	25°25	22°44	7°10	11°15	13°27	12°47	6°30	1°30	0° 5	28°41	n.a.	T 3
W 4	2 41 7	9°22'00	17°40	22°44	26°36	22°21	7° 4	11°14	13°31	12°47	6°29	1°22	0° 2	28°48	n.a.	W 4
T 5	2 45 3	10°23'03	0♏16	24°12	27°46	21°59	6°58	11°12	13°34	12°47	6°28	1°12	29♌59	28°54	n.a.	T 5
F 6	2 49 0	11°24'07	12°42	25°40	28°57	21°36	6°53	11°11	13°38	12°47	6°27	0°59	29°55	29° 1	n.a.	F 6
S 7	2 52 56	12°25'13	24°58	27° 9	0♎ 8	21°13	6°48	11°10	13°41	12°48	6°26	0°46	29°52	29° 8	n.a.	S 7
S 8	2 56 53	13°26'19	7♐ 5	28°39	1°18	20°49	6°42	11° 9	13°45	12°48	6°26	0°32	29°49	29°15	n.a.	S 8
M 9	3 0 49	14°27'26	19° 3	0♏10	2°29	20°26	6°37	11° 8	13°48	12°49	6°25	0°19	29°46	29°21	n.a.	M 9
T 10	3 4 46	15°28'34	0♑56	1°40	3°41	20° 2	6°33	11° 7	13°51	12°49	6°24	0° 9	29°43	29°28	n.a.	T 10
W11	3 8 43	16°29'42	12°44	3°11	4°52	19°39	6°28	11° 7	13°55	12°49	6°23	0° 1	29°39	29°35	n.a.	W11
T 12	3 12 39	17°30'51	24°34	4°43	6° 3	19°15	6°24	11° 6	13°58	12°50	6°22	29♌57	29°36	29°41	n.a.	T 12
F 13	3 16 36	18°32'00	6♒28	6°14	7°15	18°51	6°19	11° 6	14° 1	12°51	6°21	29°54	29°33	29°48	n.a.	F 13
S 14	3 20 32	19°33'10	18°32	7°46	8°26	18°28	6°15	11° 5	14° 5	12°51	6°21	29°D54	29°30	29°55	n.a.	S 14
S 15	3 24 29	20°34'20	0♓51	9°18	9°38	18° 4	6°12	11° 5	14° 8	12°52	6°20	29°R54	29°27	0♑ 2	n.a.	S 15
M16	3 28 25	21°35'31	13°32	10°50	10°50	17°41	6° 8	11°D 5	14°11	12°52	6°19	29°53	29°24	0° 8	n.a.	M16
T 17	3 32 22	22°36'41	26°38	12°23	12° 2	17°18	6° 4	11° 5	14°14	12°53	6°18	29°51	29°20	0°15	n.a.	T 17
W18	3 36 19	23°37'52	10♈12	13°55	13°14	16°56	6° 1	11° 5	14°17	12°54	6°18	29°46	29°17	0°22	n.a.	W18
T 19	3 40 15	24°39'04	24°17	15°28	14°26	16°33	5°58	11° 6	14°20	12°55	6°17	29°39	29°14	0°28	n.a.	T 19
F 20	3 44 12	25°40'15	8♉49	17° 1	15°38	16°11	5°55	11° 6	14°23	12°55	6°16	29°29	29°11	0°35	n.a.	F 20
S 21	3 48 8	26°41'27	23°42	18°34	16°50	15°50	5°52	11° 6	14°26	12°56	6°15	29°17	29° 8	0°42	n.a.	S 21
S 22	3 52 5	27°42'40	8♊49	20° 7	18° 2	15°29	5°50	11° 7	14°29	12°57	6°15	29° 5	29° 5	0°48	n.a.	S 22
M23	3 56 1	28°43'53	23°58	21°40	19°15	15° 8	5°48	11° 8	14°32	12°58	6°14	28°54	29° 1	0°55	n.a.	M23
T 24	3 59 58	29°45'06	9♋ 0	23°14	20°27	14°48	5°46	11° 8	14°35	12°59	6°14	28°45	28°58	1° 2	n.a.	T 24
W25	4 3 54	0♐46'20	23°45	24°48	21°40	14°29	5°44	11° 9	14°38	13° 0	6°13	28°39	28°55	1° 9	n.a.	W25
T 26	4 7 51	1°47'34	8♌ 8	26°22	22°52	14°10	5°42	11°10	14°41	13° 1	6°12	28°36	28°52	1°15	n.a.	T 26
F 27	4 11 48	2°48'49	22° 8	27°56	24° 5	13°52	5°41	11°11	14°44	13° 2	6°12	28°35	28°49	1°22	n.a.	F 27
S 28	4 15 44	3°50'04	5♍45	29°31	25°18	13°34	5°39	11°13	14°47	13° 3	6°11	28°35	28°45	1°29	n.a.	S 28
S 29	4 19 41	4°51'19	19° 0	1♐ 6	26°31	13°17	5°38	11°14	14°50	13° 4	6°11	28°35	28°42	1°35	n.a.	S 29
M30	4 23 37	5♐52'35	1♎57	2♐41	27♎44	13♉ 1	5♈38	11♓15	14♎52	13♒ 5	6♈10	28♌33	28♌39	1♑42	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13 s47	8n57	0n38	5 s32	1n55	4n25	1n47	19n38	0n49	1n30	1 s35	9 s48	2 s36	4 s48	0n34	18 s 0	0 s52	12 s54	16 s57	11n 1	11n32	19 s10		n.a.
M 2	14 7	4 51	1 46	6 10	1 49	3 59	1 49	19 36	0 52	1 28	1 34	9 48	2 35	4 49	0 34	18 0	0 52	12 54	16 57	11 2	11 33	19 10		n.a.
T 3	14 27	0 35	2 47	6 48	1 43	3 32	1 51	19 33	0 55	1 26	1 34	9 49	2 35	4 50	0 34	18 0	0 52	12 54	16 57	11 4	11 34	19 11		n.a.
W 4	14 47	3 s39	3 39	7 26	1 37	3 6	1 53	19 30	0 58	1 24	1 34	9 49	2 35	4 52	0 34	18 0	0 52	12 55	16 57	11 6	11 35	19 11		n.a.
T 5	15 6	7 39	4 19	8 5	1 31	2 39	1 55	19 26	1 0	1 22	1 34	9 49	2 35	4 53	0 34	18 0	0 52	12 55	16 56	11 10	11 36	19 12		n.a.
F 6	15 25	11 17	4 46	8 44	1 24	2 13	1 57	19 23	1 3	1 20	1 33	9 50	2 35	4 54	0 34	18 0	0 52	12 55	16 56	11 15	11 38	19 12		n.a.
S 7	15 44	14 23	4 59	9 22	1 17	1 46	1 59	19 19	1 6	1 18	1 33	9 50	2 34	4 56	0 34	17 59	0 52	12 55	16 56	11 20	11 39	19 13		n.a.
S 8	16 3	16 49	4 59	10 1	1 11	1 18	2 0	19 15	1 8	1 16	1 33	9 50	2 34	4 57	0 35	17 59	0 52	12 55	16 56	11 24	11 40	19 13		n.a.
M 9	16 21	18 31	4 45	10 40	1 4	0 51	2 1	19 12	1 11	1 15	1 33	9 50	2 34	4 58	0 35	17 59	0 52	12 55	16 56	11 29	11 41	19 14		n.a.
T 10	16 39	19 23	4 19	11 18	0 57	0 24	2 3	19 8	1 13	1 13	1 32	9 50	2 34	5 0	0 35	17 59	0 52	12 55	16 55	11 33	11 42	19 14		n.a.
W11	16 57	19 24	3 42	11 56	0 50	0 s 4	2 4	19 3	1 16	1 11	1 32	9 50	2 33	5 1	0 35	17 59	0 52	12 55	16 55	11 35	11 43	19 15		n.a.
T 12	17 15	18 34	2 55	12 34	0 43	0 31	2 5	18 59	1 18	1 10	1 32	9 50	2 33	5 2	0 35	17 59	0 52	12 56	16 55	11 37	11 44	19 15		n.a.
F 13	17 32	16 55	2 1	13 11	0 36	0 59	2 6	18 55	1 21	1 8	1 31	9 50	2 33	5 4	0 35	17 59	0 52	12 56	16 55	11 38	11 45	19 16		n.a.
S 14	17 49	14 30	1 0	13 48	0 29	1 27	2 7	18 51	1 23	1 7	1 31	9 50	2 33	5 5	0 35	17 58	0 52	12 56	16 54	11 38	11 47	19 16		n.a.
S 15	18 6	11 22	0 s 5	14 24	0 22	1 55	2 7	18 46	1 25	1 6	1 31	9 50	2 32	5 6	0 35	17 58	0 52	12 56	16 54	11 38	11 48	19 17		n.a.
M16	18 22	7 39	1 12	15 0	0 15	2 22	2 8	18 42	1 28	1 5	1 31	9 50	2 32	5 7	0 35	17 58	0 52	12 56	16 54	11 38	11 49	19 17		n.a.
T 17	18 38	3 26	2 16	15 36	0 8	2 50	2 8	18 38	1 30	1 4	1 30	9 50	2 32	5 9	0 35	17 58	0 52	12 56	16 53	11 39	11 50	19 17		n.a.
W18	18 53	1n 5	3 16	16 10	0 1	3 18	2 9	18 33	1 32	1 3	1 30	9 49	2 32	5 10	0 35	17 58	0 52	12 56	16 53	11 41	11 51	19 18		n.a.
T 19	19 9	5 43	4 5	16 45	0 s 6	3 46	2 9	18 29	1 34	1 2	1 30	9 49	2 31	5 11	0 35	17 57	0 52	12 56	16 53	11 43	11 52	19 18		n.a.
F 20	19 24	10 9	4 41	17 18	0 12	4 14	2 9	18 24	1 36	1 1	1 29	9 49	2 31	5 12	0 35	17 57	0 52	12 56	16 53	11 47	11 53	19 19		n.a.
S 21	19 38	14 5	4 59	17 51	0 19	4 42	2 9	18 20	1 38	1 0	1 29	9 48	2 31	5 13	0 35	17 57	0 52	12 56	16 52	11 51	11 54	19 19		n.a.
S 22	19 52	17 9	4 56	18 23	0 25	5 10	2 9	18 15	1 40	0 59	1 29	9 48	2 31	5 15	0 35	17 57	0 52	12 56	16 52	11 55	11 56	19 20		n.a.
M23	20 6	19 2	4 32	18 54	0 32	5 38	2 9	18 11	1 42	0 59	1 28	9 47	2 30	5 16	0 35	17 56	0 52	12 56	16 52	11 59	11 57	19 20		n.a.
T 24	20 19	19 35	3 50	19 24	0 38	6 5	2 9	18 7	1 44	0 58	1 28	9 47	2 30	5 17	0 35	17 56	0 52	12 56	16 51	12 2	11 58	19 20		n.a.
W25	20 32	18 45	2 53	19 54	0 44	6 33	2 9	18 3	1 46	0 58	1 28	9 46	2 30	5 18	0 35	17 56	0 52	12 56	16 51	12 4	11 59	19 21		n.a.
T 26	20 45	16 44	1 46	20 22	0 50	7 1	2 8	17 59	1 47	0 57	1 27	9 46	2 30	5 19	0 35	17 55	0 52	12 56	16 51	12 5	12 0	19 21		n.a.
F 27	20 57	13 45	0 34	20 50	0 56	7 28	2 8	17 55	1 49	0 57	1 27	9 45	2 29	5 20	0 35	17 55	0 52	12 56	16 51	12 6	12 1	19 22		n.a.
S 28	21 9	10 6	0n38	21 17	1 2	7 55	2 7	17 51	1 51	0 57	1 27	9 44	2 29	5 21	0 35	17 55	0 52	12 56	16 50	12 6	12 2	19 22		n.a.
S 29	21 21	6 1	1 46	21 42	1 7	8 23	2 6	17 47	1 52	0 57	1 26	9 43	2 29	5 22	0 35	17 54	0 52	12 56	16 50	12 6	12 3	19 22		n.a.
M30	21 s32	1n45	2n46	22 s 7	1 s13	8 s50	2n 6	17n43	1n54	0n57	1 s26	9 s43	2 s29	5 s23	0n35	17 s54	0 s52	12 s56	16 s50	12n 7	12n 4	19 s23		n.a.

Julian Day Number = 1676071.5, Delta T = 03h17m58s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'49, Lahiri = - 5°39'49 Julian Calendar 1 Nov. 125 BCE == Greg. Calendar 29 Oct. 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 125 BCE
geocentric

DECEMBER 125 BCE (-124) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 27 34	6♐53'51	14♎39	4♐16	28♎56	12°R46	5°R37	11♓17	14♎55	13♒ 6	6°R10	28°R28	28♌36	1♑49	n.a.	T 1
W 2	4 31 30	7°55'08	27° 9	5°52	0♏10	12♑31	5♈37	11°19	14°58	13° 7	6♈ 9	28♌20	28°33	1°55	n.a.	W 2
T 3	4 35 27	8°56'24	9♏29	7°28	1°23	12°17	5°D36	11°20	15° 0	13° 8	6° 9	28° 9	28°30	2° 2	n.a.	T 3
F 4	4 39 23	9°57'41	21°41	9° 5	2°36	12° 4	5°36	11°22	15° 3	13°10	6° 8	27°56	28°26	2° 9	n.a.	F 4
S 5	4 43 20	10°58'57	3♐46	10°41	3°49	11°51	5°37	11°24	15° 5	13°11	6° 8	27°41	28°23	2°16	n.a.	S 5
S 6	4 47 17	12° 0'14	15°44	12°19	5° 2	11°40	5°37	11°26	15° 8	13°12	6° 8	27°26	28°20	2°22	n.a.	S 6
M 7	4 51 13	13° 1'30	27°38	13°56	6°15	11°29	5°38	11°29	15°10	13°14	6° 7	27°13	28°17	2°29	n.a.	M 7
T 8	4 55 10	14° 2'46	9♑28	15°34	7°29	11°19	5°38	11°31	15°13	13°15	6° 7	27° 2	28°14	2°36	n.a.	T 8
W 9	4 59 6	15° 4'02	21°17	17°12	8°42	11°10	5°40	11°33	15°15	13°16	6° 7	26°53	28°11	2°42	n.a.	W 9
T 10	5 3 3	16° 5'17	3♒ 7	18°51	9°55	11° 1	5°41	11°36	15°17	13°18	6° 6	26°48	28° 7	2°49	n.a.	T 10
F 11	5 6 59	17° 6'31	15° 1	20°30	11° 9	10°54	5°42	11°39	15°20	13°19	6° 6	26°45	28° 4	2°56	n.a.	F 11
S 12	5 10 56	18° 7'45	27° 3	22°10	12°22	10°47	5°44	11°41	15°22	13°21	6° 6	26°D44	28° 1	3° 2	n.a.	S 12
S 13	5 14 53	19° 8'58	9♓20	23°50	13°36	10°41	5°46	11°44	15°24	13°22	6° 5	26°45	27°58	3° 9	n.a.	S 13
M14	5 18 49	20°10'10	21°55	25°30	14°49	10°36	5°48	11°47	15°26	13°24	6° 5	26°R45	27°55	3°16	n.a.	M14
T 15	5 22 46	21°11'21	4♈53	27°11	16° 3	10°32	5°50	11°50	15°28	13°25	6° 5	26°44	27°51	3°23	n.a.	T 15
W16	5 26 42	22°12'32	18°20	28°52	17°17	10°28	5°53	11°53	15°30	13°27	6° 5	26°41	27°48	3°29	n.a.	W16
T 17	5 30 39	23°13'42	2♉16	0♑33	18°30	10°26	5°55	11°57	15°32	13°28	6° 5	26°36	27°45	3°36	n.a.	T 17
F 18	5 34 35	24°14'50	16°43	2°15	19°44	10°24	5°58	12° 0	15°34	13°30	6° 5	26°28	27°42	3°43	n.a.	F 18
S 19	5 38 32	25°15'58	1♊36	3°57	20°58	10°23	6° 1	12° 3	15°36	13°32	6° 4	26°19	27°39	3°49	n.a.	S 19
S 20	5 42 28	26°17'06	16°48	5°39	22°11	10°D23	6° 5	12° 7	15°38	13°33	6° 4	26° 9	27°36	3°56	n.a.	S 20
M21	5 46 25	27°18'12	2♋ 8	7°21	23°25	10°23	6° 8	12°10	15°40	13°35	6° 4	26° 0	27°32	4° 3	n.a.	M21
T 22	5 50 22	28°19'18	17°25	9° 4	24°39	10°24	6°12	12°14	15°41	13°37	6° 4	25°53	27°29	4° 9	n.a.	T 22
W23	5 54 18	29°20'23	2♌29	10°46	25°53	10°26	6°16	12°18	15°43	13°38	6°D 4	25°48	27°26	4°16	n.a.	W23
T 24	5 58 15	0♑21'27	17°11	12°28	27° 6	10°29	6°20	12°22	15°45	13°40	6° 4	25°46	27°23	4°23	n.a.	T 24
F 25	6 2 11	1°22'30	1♍26	14° 9	28°20	10°33	6°24	12°26	15°46	13°42	6° 4	25°D46	27°20	4°30	n.a.	F 25
S 26	6 6 8	2°23'33	15°14	15°50	29°34	10°37	6°28	12°30	15°48	13°44	6° 4	25°47	27°16	4°36	n.a.	S 26
S 27	6 10 4	3°24'35	28°35	17°30	0♐48	10°42	6°33	12°34	15°49	13°46	6° 4	25°R47	27°13	4°43	n.a.	S 27
M28	6 14 1	4°25'36	11♎33	19° 8	2° 2	10°47	6°38	12°38	15°51	13°47	6° 5	25°47	27°10	4°50	n.a.	M28
T 29	6 17 57	5°26'37	24°12	20°46	3°16	10°53	6°43	12°43	15°52	13°49	6° 5	25°45	27° 7	4°56	n.a.	T 29
W30	6 21 54	6°27'37	6♏35	22°21	4°30	11° 0	6°48	12°47	15°53	13°51	6° 5	25°41	27° 4	5° 3	n.a.	W30
T 31	6 25 51	7♑28'35	18♏46	23♑54	5♐44	11♑ 8	6♈53	12♓52	15♎55	13♒53	6♈ 5	25♌35	27♌ 1	5♑10	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21 s42	2 s30	3n38	22 s31	1 s18	9 s17	2n 5	17n40	1n55	0n57	1 s26	9 s42	2 s29	5 s24	0n35	17 s54	0 s52	12 s55	16 s49	12n 8	12n 6	19 s23			n.a.
W 2	21 52	6 34	4 18	22 53	1 23	9 43	2 4	17 37	1 56	0 57	1 25	9 41	2 28	5 25	0 35	17 53	0 52	12 55	16 49	12 11	12 7	19 24			n.a.
T 3	22 2	10 19	4 45	23 15	1 28	10 10	2 3	17 33	1 58	0 57	1 25	9 40	2 28	5 26	0 35	17 53	0 52	12 55	16 49	12 15	12 8	19 24			n.a.
F 4	22 12	13 35	4 58	23 35	1 32	10 36	2 2	17 30	1 59	0 58	1 25	9 39	2 28	5 27	0 35	17 53	0 52	12 55	16 48	12 20	12 9	19 24			n.a.
S 5	22 20	16 15	4 58	23 54	1 37	11 3	2 0	17 28	2 0	0 58	1 24	9 38	2 28	5 28	0 35	17 52	0 52	12 55	16 48	12 25	12 10	19 25			n.a.
S 6	22 29	18 12	4 45	24 11	1 41	11 29	1 59	17 25	2 1	0 58	1 24	9 37	2 27	5 29	0 35	17 52	0 52	12 55	16 48	12 30	12 11	19 25			n.a.
M 7	22 37	19 22	4 20	24 27	1 44	11 54	1 58	17 23	2 2	0 59	1 24	9 36	2 27	5 30	0 35	17 52	0 52	12 55	16 47	12 34	12 12	19 26			n.a.
T 8	22 45	19 40	3 43	24 42	1 48	12 20	1 56	17 20	2 3	1 0	1 23	9 35	2 27	5 31	0 35	17 51	0 52	12 54	16 47	12 38	12 13	19 26			n.a.
W 9	22 52	19 6	2 56	24 56	1 51	12 45	1 55	17 18	2 4	1 0	1 23	9 34	2 27	5 32	0 35	17 51	0 52	12 54	16 47	12 41	12 14	19 26			n.a.
T 10	22 58	17 42	2 2	25 8	1 54	13 10	1 53	17 16	2 5	1 1	1 23	9 33	2 26	5 33	0 35	17 50	0 52	12 54	16 46	12 43	12 16	19 27			n.a.
F 11	23 5	15 32	1 2	25 18	1 57	13 34	1 52	17 15	2 6	1 2	1 22	9 31	2 26	5 34	0 35	17 50	0 52	12 54	16 46	12 44	12 17	19 27			n.a.
S 12	23 10	12 39	0 s 2	25 27	1 59	13 59	1 50	17 13	2 6	1 3	1 22	9 30	2 26	5 35	0 35	17 49	0 51	12 54	16 46	12 44	12 18	19 27			n.a.
S 13	23 16	9 11	1 7	25 34	2 1	14 23	1 48	17 12	2 7	1 4	1 22	9 29	2 26	5 35	0 35	17 49	0 51	12 53	16 45	12 44	12 19	19 28			n.a.
M14	23 20	5 14	2 10	25 40	2 2	14 46	1 46	17 11	2 8	1 5	1 21	9 27	2 25	5 36	0 35	17 49	0 51	12 53	16 45	12 44	12 20	19 28			n.a.
T 15	23 25	0 55	3 9	25 44	2 3	15 10	1 44	17 10	2 8	1 6	1 21	9 26	2 25	5 37	0 35	17 48	0 51	12 53	16 45	12 45	12 21	19 28			n.a.
W16	23 29	3n35	3 59	25 46	2 4	15 33	1 42	17 10	2 9	1 8	1 21	9 25	2 25	5 38	0 35	17 48	0 51	12 53	16 44	12 46	12 22	19 29			n.a.
T 17	23 32	8 3	4 37	25 47	2 4	15 55	1 40	17 10	2 9	1 9	1 20	9 23	2 25	5 39	0 35	17 47	0 51	12 52	16 44	12 47	12 23	19 29			n.a.
F 18	23 35	12 14	5 0	25 45	2 4	16 17	1 38	17 9	2 10	1 11	1 20	9 22	2 24	5 39	0 35	17 47	0 51	12 52	16 43	12 50	12 24	19 29			n.a.
S 19	23 37	15 46	5 3	25 42	2 3	16 39	1 36	17 10	2 10	1 12	1 20	9 20	2 24	5 40	0 35	17 46	0 51	12 52	16 43	12 53	12 26	19 30			n.a.
S 20	23 39	18 19	4 45	25 37	2 2	17 0	1 34	17 10	2 11	1 14	1 19	9 18	2 24	5 41	0 35	17 46	0 51	12 52	16 43	12 57	12 27	19 30			n.a.
M21	23 41	19 35	4 6	25 30	2 0	17 21	1 32	17 10	2 11	1 15	1 19	9 17	2 24	5 41	0 35	17 45	0 51	12 51	16 42	13 0	12 28	19 30			n.a.
T 22	23 42	19 25	3 10	25 21	1 58	17 42	1 29	17 11	2 12	1 17	1 19	9 15	2 24	5 42	0 35	17 45	0 51	12 51	16 42	13 2	12 29	19 31			n.a.
W23	23 42	17 51	2 1	25 10	1 55	18 2	1 27	17 12	2 12	1 19	1 18	9 14	2 23	5 43	0 35	17 44	0 51	12 51	16 42	13 4	12 30	19 31			n.a.
T 24	23 42	15 8	0 46	24 58	1 51	18 22	1 25	17 13	2 12	1 21	1 18	9 12	2 23	5 43	0 35	17 44	0 51	12 50	16 41	13 4	12 31	19 31			n.a.
F 25	23 42	11 33	0n30	24 43	1 47	18 41	1 22	17 15	2 12	1 23	1 18	9 10	2 23	5 44	0 35	17 43	0 51	12 50	16 41	13 4	12 32	19 32			n.a.
S 26	23 41	7 27	1 43	24 27	1 42	18 59	1 20	17 16	2 13	1 25	1 17	9 8	2 23	5 44	0 35	17 43	0 51	12 50	16 41	13 4	12 33	19 32			n.a.
S 27	23 40	3 7	2 47	24 8	1 36	19 17	1 17	17 18	2 13	1 27	1 17	9 6	2 23	5 45	0 35	17 42	0 51	12 49	16 40	13 4	12 34	19 32			n.a.
M28	23 38	1 s14	3 41	23 48	1 29	19 35	1 15	17 20	2 13	1 29	1 17	9 5	2 22	5 46	0 35	17 41	0 51	12 49	16 40	13 4	12 35	19 33			n.a.
T 29	23 36	5 25	4 22	23 26	1 22	19 52	1 12	17 22	2 13	1 32	1 16	9 3	2 22	5 46	0 35	17 41	0 51	12 48	16 39	13 5	12 37	19 33			n.a.
W30	23 33	9 17	4 51	23 3	1 14	20 8	1 9	17 24	2 13	1 34	1 16	9 1	2 22	5 47	0 35	17 40	0 51	12 48	16 39	13 6	12 38	19 33			n.a.
T 31	23 s30	12 s42	5n 5	22 s38	1 s 5	20 s24	1n 7	17n27	2n13	1n36	1 s16	8 s59	2 s22	5 s47	0n36	17 s40	0 s51	12 s48	16 s39	13n 8	12n39	19 s34			n.a.

Julian Day Number = 1676101.5, Delta T = 03h17m58s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'45, Lahiri = - 5°39'45 Julian Calendar 1 Dec. 125 BCE == Greg. Calendar 28 Nov. 125 BCE

The year -124 astronomical counting style corresponds to year 125 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

JANUARY 124 BCE (-123) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 29 47	8♑29'33	0♐48	25♑24	6♐58	11♉16	6♈58	12♓56	15♎56	13♒55	6♈ 5	25°R27	26♌57	5♑16	n.a.	F 1
S 2	6 33 44	9°30'30	12°44	26°50	8°12	11°25	7° 4	13° 1	15°57	13°57	6° 5	25♌17	26°54	5°23	n.a.	S 2
S 3	6 37 40	10°31'26	24°36	28°13	9°26	11°34	7°10	13° 6	15°58	13°59	6° 6	25° 8	26°51	5°30	n.a.	S 3
M 4	6 41 37	11°32'21	6♑27	29°31	10°40	11°44	7°16	13°11	15°59	14° 1	6° 6	24°59	26°48	5°37	n.a.	M 4
T 5	6 45 33	12°33'15	18°17	0♒44	11°54	11°55	7°22	13°16	16° 0	14° 3	6° 6	24°52	26°45	5°43	n.a.	T 5
W 6	6 49 30	13°34'07	0♒ 8	1°50	13° 8	12° 6	7°29	13°21	16° 1	14° 5	6° 6	24°47	26°42	5°50	n.a.	W 6
T 7	6 53 26	14°34'57	12° 3	2°49	14°22	12°17	7°35	13°26	16° 2	14° 7	6° 7	24°44	26°38	5°57	n.a.	T 7
F 8	6 57 23	15°35'47	24° 3	3°41	15°36	12°30	7°42	13°31	16° 3	14° 9	6° 7	24°D43	26°35	6° 3	n.a.	F 8
S 9	7 1 20	16°36'34	6♓11	4°24	16°50	12°43	7°49	13°36	16° 4	14°11	6° 7	24°44	26°32	6°10	n.a.	S 9
S 10	7 5 16	17°37'20	18°32	4°58	18° 4	12°56	7°56	13°41	16° 4	14°13	6° 8	24°45	26°29	6°17	n.a.	S 10
M11	7 9 13	18°38'04	1♈ 8	5°23	19°18	13°10	8° 3	13°47	16° 5	14°15	6° 8	24°47	26°26	6°23	n.a.	M11
T 12	7 13 9	19°38'47	14° 4	5°37	20°32	13°24	8°10	13°52	16° 6	14°17	6° 9	24°R48	26°22	6°30	n.a.	T 12
W13	7 17 6	20°39'27	27°23	5°R40	21°46	13°39	8°17	13°58	16° 6	14°19	6° 9	24°48	26°19	6°37	n.a.	W13
T 14	7 21 2	21°40'06	11♉ 8	5°33	23° 0	13°55	8°25	14° 3	16° 7	14°21	6°10	24°46	26°16	6°43	n.a.	T 14
F 15	7 24 59	22°40'43	25°20	5°15	24°14	14°10	8°33	14° 9	16° 7	14°24	6°10	24°43	26°13	6°50	n.a.	F 15
S 16	7 28 55	23°41'18	9♊57	4°47	25°28	14°27	8°41	14°15	16° 8	14°26	6°11	24°39	26°10	6°57	n.a.	S 16
S 17	7 32 52	24°41'51	24°55	4°10	26°42	14°44	8°49	14°21	16° 8	14°28	6°11	24°35	26° 7	7° 4	n.a.	S 17
M18	7 36 49	25°42'23	10♋ 6	3°24	27°56	15° 1	8°57	14°27	16° 8	14°30	6°12	24°31	26° 3	7°10	n.a.	M18
T 19	7 40 45	26°42'53	25°19	2°31	29°11	15°18	9° 5	14°33	16° 9	14°32	6°12	24°27	26° 0	7°17	n.a.	T 19
W20	7 44 42	27°43'21	10♌26	1°31	0♑25	15°36	9°14	14°39	16° 9	14°34	6°13	24°25	25°57	7°24	n.a.	W20
T 21	7 48 38	28°43'47	25°16	0°28	1°39	15°55	9°22	14°45	16° 9	14°37	6°13	24°D25	25°54	7°30	n.a.	T 21
F 22	7 52 35	29°44'12	9♍43	29♑22	2°53	16°14	9°31	14°51	16° 9	14°39	6°14	24°26	25°51	7°37	n.a.	F 22
S 23	7 56 31	0♒44'35	23°43	28°15	4° 7	16°33	9°40	14°57	16°R 9	14°41	6°15	24°27	25°48	7°44	n.a.	S 23
S 24	8 0 28	1°44'56	7♎16	27° 9	5°21	16°52	9°49	15° 3	16° 9	14°43	6°15	24°28	25°44	7°50	n.a.	S 24
M25	8 4 24	2°45'16	20°23	26° 6	6°35	17°12	9°58	15°10	16° 9	14°46	6°16	24°30	25°41	7°57	n.a.	M25
T 26	8 8 21	3°45'35	3♏ 6	25° 6	7°49	17°33	10° 7	15°16	16° 9	14°48	6°17	24°R30	25°38	8° 4	n.a.	T 26
W27	8 12 18	4°45'52	15°30	24°11	9° 3	17°53	10°17	15°22	16° 8	14°50	6°17	24°30	25°35	8°10	n.a.	W27
T 28	8 16 14	5°46'07	27°40	23°22	10°17	18°14	10°26	15°29	16° 8	14°52	6°18	24°28	25°32	8°17	n.a.	T 28
F 29	8 20 11	6°46'21	9♐39	22°39	11°32	18°36	10°36	15°35	16° 8	14°54	6°19	24°26	25°28	8°24	n.a.	F 29
S 30	8 24 7	7°46'33	21°31	22° 3	12°46	18°57	10°46	15°42	16° 7	14°57	6°20	24°24	25°25	8°30	n.a.	S 30
S 31	8 28 4	8♒46'43	3♑21	21♑33	14♑ 0	19♉19	10♈56	15♓48	16♎ 7	14♒59	6♈21	24♌21	25♌22	8♑37	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s26	15s33	5n 6	22s12	0s55	20s40	1n 4	17n29	2n13	1n39	1s15	8s57	2s22	5s47	0n36	17s39	0s51	12s47	16s38	13n11	12n40	19s34		n.a.
S 2	23 22	17 44	4 53	21 44	0 44	20 55	1 1	17 32	2 13	1 41	1 15	8 55	2 21	5 48	0 36	17 39	0 51	12 47	16 38	13 14	12 41	19 34		n.a.
S 3	23 17	19 8	4 28	21 16	0 32	21 9	0 59	17 35	2 13	1 44	1 15	8 53	2 21	5 48	0 36	17 38	0 51	12 46	16 38	13 17	12 42	19 34		n.a.
M 4	23 12	19 42	3 51	20 48	0 19	21 22	0 56	17 38	2 13	1 47	1 14	8 51	2 21	5 49	0 36	17 38	0 51	12 46	16 37	13 20	12 43	19 35		n.a.
T 5	23 6	19 24	3 5	20 19	0 6	21 35	0 53	17 42	2 13	1 49	1 14	8 49	2 21	5 49	0 36	17 37	0 51	12 46	16 37	13 23	12 44	19 35		n.a.
W 6	23 0	18 14	2 10	19 50	0n 8	21 48	0 50	17 45	2 13	1 52	1 14	8 47	2 21	5 49	0 36	17 36	0 51	12 45	16 37	13 24	12 45	19 35		n.a.
T 7	22 54	16 17	1 8	19 22	0 24	22 0	0 48	17 49	2 13	1 55	1 14	8 44	2 20	5 50	0 36	17 36	0 51	12 45	16 36	13 25	12 46	19 35		n.a.
F 8	22 47	13 36	0 4	18 54	0 39	22 11	0 45	17 52	2 13	1 58	1 13	8 42	2 20	5 50	0 36	17 35	0 51	12 44	16 36	13 26	12 48	19 36		n.a.
S 9	22 40	10 18	1s 2	18 28	0 56	22 21	0 42	17 56	2 13	2 1	1 13	8 40	2 20	5 50	0 36	17 35	0 51	12 44	16 36	13 25	12 49	19 36		n.a.
S 10	22 32	6 31	2 6	18 4	1 13	22 31	0 39	18 0	2 13	2 4	1 13	8 38	2 20	5 51	0 36	17 34	0 51	12 43	16 35	13 25	12 50	19 36		n.a.
M11	22 24	2 23	3 6	17 41	1 30	22 40	0 36	18 5	2 13	2 7	1 12	8 36	2 20	5 51	0 36	17 33	0 51	12 43	16 35	13 24	12 51	19 36		n.a.
T 12	22 15	1n58	3 57	17 21	1 47	22 49	0 33	18 9	2 13	2 10	1 12	8 33	2 19	5 51	0 36	17 33	0 51	12 42	16 34	13 24	12 52	19 37		n.a.
W13	22 6	6 20	4 38	17 4	2 4	22 56	0 31	18 13	2 13	2 14	1 12	8 31	2 19	5 51	0 36	17 32	0 51	12 42	16 34	13 24	12 53	19 37		n.a.
T 14	21 57	10 31	5 4	16 49	2 21	23 4	0 28	18 18	2 13	2 17	1 12	8 29	2 19	5 51	0 36	17 31	0 51	12 41	16 34	13 25	12 54	19 37		n.a.
F 15	21 47	14 15	5 13	16 38	2 37	23 10	0 25	18 22	2 12	2 20	1 11	8 26	2 19	5 52	0 36	17 31	0 51	12 41	16 33	13 26	12 55	19 37		n.a.
S 16	21 36	17 13	5 2	16 30	2 52	23 16	0 22	18 27	2 12	2 24	1 11	8 24	2 19	5 52	0 36	17 30	0 51	12 40	16 33	13 27	12 56	19 38		n.a.
S 17	21 26	19 6	4 30	16 25	3 6	23 21	0 19	18 32	2 12	2 27	1 11	8 21	2 19	5 52	0 36	17 30	0 51	12 40	16 33	13 28	12 57	19 38		n.a.
M18	21 14	19 40	3 40	16 24	3 18	23 25	0 16	18 37	2 12	2 31	1 10	8 19	2 18	5 52	0 36	17 29	0 51	12 39	16 32	13 30	12 58	19 38		n.a.
T 19	21 3	18 48	2 33	16 26	3 29	23 29	0 13	18 42	2 12	2 34	1 10	8 16	2 18	5 52	0 36	17 28	0 51	12 39	16 32	13 31	13 0	19 38		n.a.
W20	20 51	16 36	1 16	16 31	3 37	23 32	0 11	18 47	2 11	2 38	1 10	8 14	2 18	5 52	0 36	17 28	0 51	12 38	16 32	13 32	13 1	19 39		n.a.
T 21	20 39	13 19	0n 5	16 38	3 44	23 34	0 8	18 53	2 11	2 41	1 10	8 11	2 18	5 52	0 36	17 27	0 51	12 38	16 31	13 32	13 2	19 39		n.a.
F 22	20 26	9 18	1 23	16 48	3 48	23 36	0 5	18 58	2 11	2 45	1 9	8 9	2 18	5 52	0 36	17 26	0 51	12 37	16 31	13 32	13 3	19 39		n.a.
S 23	20 13	4 53	2 34	16 59	3 50	23 36	0 2	19 3	2 11	2 49	1 9	8 6	2 18	5 52	0 36	17 26	0 51	12 37	16 31	13 31	13 4	19 39		n.a.
S 24	20 0	0 22	3 35	17 13	3 49	23 37	0s 1	19 9	2 11	2 53	1 9	8 4	2 18	5 52	0 36	17 25	0 51	12 36	16 30	13 31	13 5	19 39		n.a.
M25	19 46	4s 1	4 21	17 27	3 47	23 36	0 3	19 14	2 10	2 56	1 9	8 1	2 17	5 52	0 36	17 24	0 51	12 35	16 30	13 30	13 6	19 40		n.a.
T 26	19 32	8 5	4 54	17 42	3 42	23 35	0 6	19 20	2 10	3 0	1 8	7 59	2 17	5 52	0 36	17 24	0 51	12 35	16 30	13 30	13 7	19 40		n.a.
W27	19 17	11 42	5 12	17 58	3 36	23 33	0 9	19 26	2 10	3 4	1 8	7 56	2 17	5 52	0 36	17 23	0 51	12 34	16 29	13 30	13 8	19 40		n.a.
T 28	19 2	14 45	5 15	18 15	3 28	23 30	0 12	19 31	2 9	3 8	1 8	7 53	2 17	5 52	0 36	17 22	0 51	12 34	16 29	13 31	13 9	19 40		n.a.
F 29	18 47	17 8	5 5	18 31	3 19	23 26	0 14	19 37	2 9	3 12	1 8	7 51	2 17	5 51	0 36	17 22	0 51	12 33	16 29	13 31	13 10	19 40		n.a.
S 30	18 32	18 45	4 41	18 47	3 8	23 22	0 17	19 43	2 9	3 16	1 7	7 48	2 17	5 51	0 36	17 21	0 51	12 33	16 29	13 32	13 11	19 41		n.a.
S 31	18s16	19s34	4n 6	19s 3	2n57	23s17	0s20	19n49	2n 9	3n21	1s 7	7s45	2s17	5s51	0n36	17s20	0s51	12s32	16s28	13n33	13n13	19s41		n.a.

Julian Day Number = 1676132.5, Delta T = 03h17m57s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'41, Lahiri = - 5°39'41 Julian Calendar 1 Jan. 124 BCE == Greg. Calendar 29 Dec. 125 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

FEBRUARY 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 32 0	9♒46'52	15♉10	21°R11	15♉14	19♉42	11♈ 6	15♓55	16°R 7	15♒ 1	6♈21	24°R19	25♌19	8♉44	n.a.	M 1
T 2	8 35 57	10°46'58	27° 2	20♉56	16°28	20° 4	11°16	16° 2	16♎ 6	15° 4	6°22	24♌17	25°16	8°51	n.a.	T 2
W 3	8 39 53	11°47'03	8♒59	20°48	17°42	20°27	11°26	16° 9	16° 5	15° 6	6°23	24°16	25°13	8°57	n.a.	W 3
T 4	8 43 50	12°47'06	21° 3	20°D46	18°56	20°50	11°36	16°15	16° 5	15° 8	6°24	24°D15	25° 9	9° 4	n.a.	T 4
F 5	8 47 47	13°47'06	3♓15	20°51	20°10	21°14	11°47	16°22	16° 4	15°10	6°25	24°15	25° 6	9°11	n.a.	F 5
S 6	8 51 43	14°47'05	15°37	21° 1	21°24	21°38	11°57	16°29	16° 3	15°13	6°26	24°16	25° 3	9°17	n.a.	S 6
S 7	8 55 40	15°47'01	28°11	21°18	22°39	22° 2	12° 8	16°36	16° 3	15°15	6°27	24°17	25° 0	9°24	n.a.	S 7
M 8	8 59 36	16°46'55	10♈59	21°39	23°53	22°26	12°19	16°43	16° 2	15°17	6°28	24°17	24°57	9°31	n.a.	M 8
T 9	9 3 33	17°46'47	24° 2	22° 6	25° 7	22°50	12°29	16°50	16° 1	15°19	6°29	24°18	24°54	9°37	n.a.	T 9
W10	9 7 29	18°46'37	7♉24	22°37	26°21	23°15	12°40	16°57	16° 0	15°22	6°29	24°18	24°50	9°44	n.a.	W10
T 11	9 11 26	19°46'24	21° 4	23°13	27°35	23°40	12°51	17° 4	15°59	15°24	6°30	24°R19	24°47	9°51	n.a.	T 11
F 12	9 15 22	20°46'09	5♊ 4	23°53	28°49	24° 6	13° 2	17°11	15°58	15°26	6°31	24°18	24°44	9°57	n.a.	F 12
S 13	9 19 19	21°45'51	19°23	24°36	0♒ 3	24°31	13°14	17°19	15°57	15°29	6°32	24°18	24°41	10° 4	n.a.	S 13
S 14	9 23 16	22°45'32	3♋58	25°23	1°17	24°57	13°25	17°26	15°56	15°31	6°34	24°18	24°38	10°11	n.a.	S 14
M15	9 27 12	23°45'09	18°45	26°14	2°31	25°23	13°36	17°33	15°55	15°33	6°35	24°18	24°34	10°17	n.a.	M15
T 16	9 31 9	24°44'45	3♌38	27° 8	3°45	25°49	13°48	17°40	15°53	15°35	6°36	24°D18	24°31	10°24	n.a.	T 16
W17	9 35 5	25°44'18	18°28	28° 5	4°59	26°16	13°59	17°48	15°52	15°38	6°37	24°R18	24°28	10°31	n.a.	W17
T 18	9 39 2	26°43'49	3♍ 9	29° 4	6°13	26°42	14°11	17°55	15°51	15°40	6°38	24°18	24°25	10°37	n.a.	T 18
F 19	9 42 58	27°43'18	17°34	0♒ 6	7°27	27° 9	14°23	18° 2	15°49	15°42	6°39	24°18	24°22	10°44	n.a.	F 19
S 20	9 46 55	28°42'45	1♎37	1°11	8°41	27°36	14°35	18°10	15°48	15°44	6°40	24°17	24°19	10°51	n.a.	S 20
S 21	9 50 51	29°42'09	15°16	2°18	9°55	28° 3	14°47	18°17	15°46	15°47	6°41	24°17	24°15	10°58	n.a.	S 21
M22	9 54 48	0♓41'32	28°29	3°27	11° 9	28°31	14°59	18°24	15°45	15°49	6°42	24°16	24°12	11° 4	n.a.	M22
T 23	9 58 44	1°40'53	11♏20	4°39	12°23	28°58	15°11	18°32	15°43	15°51	6°43	24°15	24° 9	11°11	n.a.	T 23
W24	10 2 41	2°40'13	23°49	5°52	13°37	29°26	15°23	18°39	15°42	15°53	6°45	24°15	24° 6	11°18	n.a.	W24
T 25	10 6 38	3°39'30	6♐ 1	7° 8	14°51	29°54	15°35	18°47	15°40	15°55	6°46	24°D15	24° 3	11°24	n.a.	T 25
F 26	10 10 34	4°38'45	18° 1	8°25	16° 5	0♊22	15°47	18°54	15°39	15°58	6°47	24°15	24° 0	11°31	n.a.	F 26
S 27	10 14 31	5°37'59	29°53	9°45	17°19	0°51	16° 0	19° 2	15°37	16° 0	6°48	24°16	23°56	11°38	n.a.	S 27
S 28	10 18 27	6♓37'11	11♉43	11♒ 6	18♒33	1♊19	16♈12	19♓ 9	15♎35	16♒ 2	6♈49	24♌17	23♌53	11♉44	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s 0	19s31	3n20	19s18	2n45	23s12	0s22	19n55	2n 8	3n25	1s 7	7s42	2s17	5s51	0n36	17s20	0s51	12s31	16s28	13n34	13n14	19s41		n.a.
T 2	17 43	18 37	2 25	19 33	2 33	23 5	0 25	20 1	2 8	3 29	1 7	7 40	2 16	5 51	0 36	17 19	0 51	12 31	16 28	13 35	13 15	19 41		n.a.
W 3	17 27	16 52	1 24	19 47	2 20	22 58	0 27	20 7	2 8	3 33	1 6	7 37	2 16	5 50	0 36	17 18	0 51	12 30	16 27	13 35	13 16	19 41		n.a.
T 4	17 10	14 22	0 18	20 0	2 7	22 51	0 30	20 13	2 7	3 37	1 6	7 34	2 16	5 50	0 36	17 18	0 51	12 30	16 27	13 35	13 17	19 41		n.a.
F 5	16 52	11 12	0s50	20 12	1 53	22 42	0 32	20 19	2 7	3 42	1 6	7 31	2 16	5 50	0 36	17 17	0 51	12 29	16 27	13 35	13 18	19 42		n.a.
S 6	16 35	7 31	1 56	20 24	1 40	22 33	0 35	20 25	2 7	3 46	1 6	7 29	2 16	5 50	0 36	17 16	0 51	12 28	16 26	13 35	13 19	19 42		n.a.
S 7	16 17	3 26	2 57	20 34	1 27	22 23	0 37	20 31	2 6	3 51	1 6	7 26	2 16	5 49	0 36	17 16	0 51	12 28	16 26	13 35	13 20	19 42		n.a.
M 8	15 59	0n51	3 51	20 44	1 14	22 13	0 39	20 37	2 6	3 55	1 5	7 23	2 16	5 49	0 37	17 15	0 51	12 27	16 26	13 34	13 21	19 42		n.a.
T 9	15 41	5 11	4 35	20 52	1 1	22 2	0 42	20 43	2 6	3 59	1 5	7 20	2 16	5 48	0 37	17 14	0 51	12 26	16 26	13 34	13 22	19 42		n.a.
W10	15 22	9 21	5 4	20 59	0 49	21 50	0 44	20 49	2 5	4 4	1 5	7 17	2 16	5 48	0 37	17 14	0 51	12 26	16 25	13 34	13 23	19 42		n.a.
T 11	15 3	13 8	5 17	21 5	0 36	21 38	0 46	20 55	2 5	4 9	1 5	7 14	2 16	5 48	0 37	17 13	0 51	12 25	16 25	13 34	13 24	19 43		n.a.
F 12	14 44	16 16	5 12	21 10	0 24	21 25	0 48	21 1	2 5	4 13	1 4	7 11	2 16	5 47	0 37	17 12	0 51	12 25	16 25	13 34	13 25	19 43		n.a.
S 13	14 25	18 30	4 48	21 14	0 13	21 11	0 50	21 7	2 4	4 18	1 4	7 9	2 15	5 47	0 37	17 12	0 51	12 24	16 25	13 34	13 27	19 43		n.a.
S 14	14 5	19 34	4 5	21 16	0 2	20 57	0 52	21 13	2 4	4 22	1 4	7 6	2 15	5 46	0 37	17 11	0 51	12 23	16 24	13 34	13 28	19 43		n.a.
M15	13 45	19 19	3 5	21 17	0s 9	20 42	0 54	21 19	2 4	4 27	1 4	7 3	2 15	5 46	0 37	17 10	0 51	12 23	16 24	13 34	13 29	19 43		n.a.
T 16	13 25	17 44	1 52	21 17	0 20	20 27	0 56	21 25	2 3	4 32	1 4	7 0	2 15	5 45	0 37	17 10	0 51	12 22	16 24	13 34	13 30	19 43		n.a.
W17	13 5	14 57	0 32	21 16	0 30	20 11	0 58	21 32	2 3	4 36	1 3	6 57	2 15	5 45	0 37	17 9	0 51	12 21	16 24	13 34	13 31	19 43		n.a.
T 18	12 45	11 13	0n49	21 13	0 39	19 54	1 0	21 38	2 3	4 41	1 3	6 54	2 15	5 44	0 37	17 8	0 52	12 21	16 23	13 34	13 32	19 43		n.a.
F 19	12 24	6 54	2 6	21 9	0 49	19 37	1 2	21 44	2 2	4 46	1 3	6 51	2 15	5 44	0 37	17 8	0 52	12 20	16 23	13 34	13 33	19 43		n.a.
S 20	12 3	2 18	3 13	21 3	0 57	19 19	1 4	21 49	2 2	4 51	1 3	6 48	2 15	5 43	0 37	17 7	0 52	12 19	16 23	13 34	13 34	19 44		n.a.
S 21	11 42	2s17	4 7	20 56	1 6	19 1	1 5	21 55	2 2	4 56	1 3	6 45	2 15	5 43	0 37	17 6	0 52	12 19	16 23	13 35	13 35	19 44		n.a.
M22	11 21	6 36	4 46	20 48	1 14	18 42	1 7	22 1	2 1	5 0	1 2	6 42	2 15	5 42	0 37	17 6	0 52	12 18	16 22	13 35	13 36	19 44		n.a.
T 23	11 0	10 30	5 9	20 38	1 21	18 22	1 9	22 7	2 1	5 5	1 2	6 39	2 15	5 41	0 37	17 5	0 52	12 18	16 22	13 35	13 37	19 44		n.a.
W24	10 38	13 49	5 17	20 27	1 29	18 2	1 10	22 13	2 1	5 10	1 2	6 36	2 15	5 41	0 37	17 4	0 52	12 17	16 22	13 35	13 38	19 44		n.a.
T 25	10 17	16 27	5 11	20 14	1 35	17 42	1 12	22 19	2 0	5 15	1 2	6 33	2 15	5 40	0 37	17 4	0 52	12 16	16 22	13 35	13 39	19 44		n.a.
F 26	9 55	18 20	4 51	19 59	1 41	17 21	1 13	22 24	2 0	5 20	1 2	6 30	2 15	5 39	0 37	17 3	0 52	12 16	16 22	13 35	13 40	19 44		n.a.
S 27	9 33	19 24	4 18	19 44	1 47	17 0	1 14	22 30	1 59	5 25	1 2	6 27	2 15	5 39	0 37	17 2	0 52	12 15	16 21	13 35	13 41	19 44		n.a.
S 28	9s11	19s37	3n35	19s26	1s53	16s38	1s16	22n36	1n59	5n30	1s 1	6s24	2s15	5s38	0n37	17s 2	0s52	12s14	16s21	13n34	13n43	19s44		n.a.

Julian Day Number = 1676163.5, Delta T = 03h17m56s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'37, Lahiri = - 5°39'36 Julian Calendar 1 Feb. 124 BCE == Greg. Calendar 29 Jan. 124 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

MARCH 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 22 24	7♓36'21	23♉33	12♒29	19♒47	1♊48	16♈25	19♓17	15°R33	16♒ 4	6♈51	24♌18	23♌50	11♉51	n.a.	M 1
T 2	10 26 20	8°35'28	5♒29	13°53	21° 1	2°16	16°37	19°25	15♎32	16° 6	6°52	24°20	23°47	11°58	n.a.	T 2
W 3	10 30 17	9°34'34	17°32	15°19	22°15	2°45	16°50	19°32	15°30	16° 8	6°53	24°20	23°44	12° 4	n.a.	W 3
T 4	10 34 13	10°33'38	29°47	16°47	23°29	3°15	17° 2	19°40	15°28	16°10	6°54	24°R20	23°40	12°11	n.a.	T 4
F 5	10 38 10	11°32'39	12♓14	18°16	24°43	3°44	17°15	19°47	15°26	16°13	6°55	24°19	23°37	12°18	n.a.	F 5
S 6	10 42 7	12°31'39	24°55	19°47	25°57	4°13	17°28	19°55	15°24	16°15	6°57	24°18	23°34	12°24	n.a.	S 6
S 7	10 46 3	13°30'36	7♈50	21°19	27°11	4°43	17°41	20° 3	15°22	16°17	6°58	24°15	23°31	12°31	n.a.	S 7
M 8	10 50 0	14°29'31	20°58	22°53	28°25	5°12	17°54	20°10	15°20	16°19	6°59	24°12	23°28	12°38	n.a.	M 8
T 9	10 53 56	15°28'24	4♉21	24°29	29°39	5°42	18° 7	20°18	15°18	16°21	7° 1	24° 9	23°25	12°44	n.a.	T 9
W10	10 57 53	16°27'15	17°56	26° 6	0♓53	6°12	18°20	20°26	15°16	16°23	7° 2	24° 7	23°21	12°51	n.a.	W10
T 11	11 1 49	17°26'03	1♊44	27°45	2° 7	6°42	18°33	20°33	15°14	16°25	7° 3	24° 5	23°18	12°58	n.a.	T 11
F 12	11 5 46	18°24'49	15°43	29°25	3°21	7°13	18°46	20°41	15°11	16°27	7° 5	24°D 4	23°15	13° 4	n.a.	F 12
S 13	11 9 42	19°23'32	29°51	1♓ 6	4°35	7°43	18°59	20°49	15° 9	16°29	7° 6	24° 4	23°12	13°11	n.a.	S 13
S 14	11 13 39	20°22'13	14♋ 8	2°50	5°48	8°14	19°12	20°56	15° 7	16°31	7° 7	24° 5	23° 9	13°18	n.a.	S 14
M15	11 17 35	21°20'52	28°31	4°34	7° 2	8°44	19°26	21° 4	15° 5	16°33	7° 8	24° 7	23° 5	13°24	n.a.	M15
T 16	11 21 32	22°19'29	12♌56	6°20	8°16	9°15	19°39	21°12	15° 3	16°35	7°10	24° 8	23° 2	13°31	n.a.	T 16
W17	11 25 29	23°18'03	27°20	8° 8	9°30	9°46	19°52	21°19	15° 0	16°37	7°11	24°R 8	22°59	13°38	n.a.	W17
T 18	11 29 25	24°16'35	11♍38	9°58	10°44	10°17	20° 6	21°27	14°58	16°39	7°12	24° 7	22°56	13°45	n.a.	T 18
F 19	11 33 22	25°15'05	25°45	11°49	11°58	10°48	20°19	21°35	14°56	16°40	7°14	24° 5	22°53	13°51	n.a.	F 19
S 20	11 37 18	26°13'32	9♎37	13°41	13°12	11°19	20°32	21°42	14°53	16°42	7°15	24° 1	22°50	13°58	n.a.	S 20
S 21	11 41 15	27°11'58	23°10	15°35	14°25	11°50	20°46	21°50	14°51	16°44	7°17	23°56	22°46	14° 5	n.a.	S 21
M22	11 45 11	28°10'22	6♏22	17°31	15°39	12°22	21° 0	21°58	14°49	16°46	7°18	23°50	22°43	14°11	n.a.	M22
T 23	11 49 8	29° 8'45	19°13	19°28	16°53	12°53	21°13	22° 5	14°46	16°48	7°19	23°45	22°40	14°18	n.a.	T 23
W24	11 53 4	0♈ 7'06	1♐44	21°27	18° 7	13°25	21°27	22°13	14°44	16°50	7°21	23°40	22°37	14°25	n.a.	W24
T 25	11 57 1	1° 5'25	13°59	23°28	19°21	13°56	21°40	22°21	14°41	16°51	7°22	23°37	22°34	14°31	n.a.	T 25
F 26	12 0 58	2° 3'42	26° 0	25°29	20°35	14°28	21°54	22°28	14°39	16°53	7°23	23°36	22°31	14°38	n.a.	F 26
S 27	12 4 54	3° 1'58	7♑54	27°33	21°48	15° 0	22° 8	22°36	14°37	16°55	7°25	23°D36	22°27	14°45	n.a.	S 27
S 28	12 8 51	4° 0'12	19°43	29°37	23° 2	15°32	22°22	22°43	14°34	16°56	7°26	23°37	22°24	14°51	n.a.	S 28
M29	12 12 47	4°58'24	1♒35	1♈43	24°16	16° 4	22°35	22°51	14°32	16°58	7°27	23°38	22°21	14°58	n.a.	M29
T 30	12 16 44	5°56'35	13°33	3°50	25°30	16°36	22°49	22°59	14°29	17° 0	7°29	23°40	22°18	15° 5	n.a.	T 30
W31	12 20 40	6♈54'45	25♒42	5♈58	26♓44	17♊ 8	23♈ 3	23♓ 6	14♎27	17♒ 1	7♈30	23°R40	22♌15	15♉11	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	8s49	18s58	2n42	19s 8	1s57	16s16	1s17	22n41	1n59	5n35	1s 1	6s21	2s15	5s37	0n37	17s 1	0s52	12s14	16s21	13n34	13n44	19s44			n.a.
T 2	8 26	17 27	1 43	18 47	2 2	15 53	1 18	22 47	1 58	5 40	1 1	6 18	2 15	5 37	0 37	17 1	0 52	12 13	16 21	13 34	13 45	19 44			n.a.
W 3	8 4	15 9	0 38	18 25	2 6	15 30	1 19	22 52	1 58	5 45	1 1	6 15	2 15	5 36	0 37	17 0	0 52	12 12	16 21	13 33	13 46	19 45			n.a.
T 4	7 41	12 9	0s30	18 2	2 9	15 6	1 20	22 58	1 58	5 50	1 1	6 12	2 15	5 35	0 37	16 59	0 52	12 12	16 21	13 33	13 47	19 45			n.a.
F 5	7 19	8 33	1 37	17 37	2 12	14 42	1 21	23 3	1 57	5 55	1 0	6 9	2 15	5 34	0 37	16 59	0 52	12 11	16 20	13 34	13 48	19 45			n.a.
S 6	6 56	4 30	2 41	17 11	2 15	14 18	1 22	23 8	1 57	6 0	1 0	6 6	2 15	5 34	0 37	16 58	0 52	12 10	16 20	13 34	13 49	19 45			n.a.
S 7	6 33	0 11	3 38	16 43	2 17	13 53	1 23	23 14	1 56	6 5	1 0	6 3	2 15	5 33	0 37	16 57	0 52	12 10	16 20	13 35	13 50	19 45			n.a.
M 8	6 10	4n12	4 24	16 13	2 19	13 28	1 24	23 19	1 56	6 10	1 0	6 0	2 15	5 32	0 37	16 57	0 52	12 9	16 20	13 36	13 51	19 45			n.a.
T 9	5 47	8 28	4 56	15 42	2 20	13 2	1 24	23 24	1 56	6 16	1 0	5 56	2 15	5 31	0 37	16 56	0 52	12 9	16 20	13 37	13 52	19 45			n.a.
W10	5 24	12 22	5 13	15 9	2 20	12 36	1 25	23 29	1 55	6 21	1 0	5 53	2 15	5 30	0 37	16 56	0 52	12 8	16 20	13 38	13 53	19 45			n.a.
T 11	5 1	15 39	5 12	14 35	2 21	12 10	1 26	23 34	1 55	6 26	1 0	5 50	2 15	5 30	0 37	16 55	0 52	12 7	16 20	13 39	13 54	19 45			n.a.
F 12	4 38	18 5	4 53	13 59	2 20	11 44	1 26	23 38	1 55	6 31	0 59	5 47	2 15	5 29	0 37	16 55	0 52	12 7	16 19	13 39	13 55	19 45			n.a.
S 13	4 15	19 27	4 16	13 22	2 19	11 17	1 27	23 43	1 54	6 36	0 59	5 44	2 15	5 28	0 37	16 54	0 52	12 6	16 19	13 39	13 56	19 45			n.a.
S 14	3 51	19 36	3 22	12 43	2 18	10 50	1 27	23 48	1 54	6 41	0 59	5 41	2 15	5 27	0 37	16 53	0 52	12 5	16 19	13 38	13 57	19 45			n.a.
M15	3 28	18 28	2 16	12 3	2 16	10 22	1 27	23 52	1 53	6 47	0 59	5 38	2 15	5 26	0 37	16 53	0 52	12 5	16 19	13 38	13 58	19 45			n.a.
T 16	3 5	16 9	1 1	11 21	2 13	9 55	1 28	23 57	1 53	6 52	0 59	5 35	2 15	5 25	0 37	16 52	0 52	12 4	16 19	13 37	13 59	19 45			n.a.
W17	2 41	12 48	0n18	10 37	2 10	9 27	1 28	24 1	1 53	6 57	0 59	5 32	2 15	5 24	0 37	16 52	0 52	12 4	16 19	13 37	14 0	19 45			n.a.
T 18	2 18	8 44	1 34	9 52	2 7	8 59	1 28	24 5	1 52	7 2	0 59	5 29	2 15	5 23	0 37	16 51	0 52	12 3	16 19	13 38	14 2	19 45			n.a.
F 19	1 54	4 13	2 45	9 6	2 3	8 30	1 28	24 10	1 52	7 7	0 58	5 26	2 15	5 23	0 37	16 51	0 52	12 2	16 19	13 39	14 3	19 45			n.a.
S 20	1 31	0s26	3 43	8 18	1 58	8 2	1 28	24 14	1 51	7 13	0 58	5 23	2 15	5 22	0 37	16 50	0 52	12 2	16 19	13 40	14 4	19 45			n.a.
S 21	1 8	4 57	4 28	7 29	1 53	7 33	1 28	24 18	1 51	7 18	0 58	5 20	2 15	5 21	0 37	16 49	0 52	12 1	16 18	13 42	14 5	19 45			n.a.
M22	0 44	9 7	4 57	6 38	1 48	7 4	1 28	24 22	1 51	7 23	0 58	5 17	2 15	5 20	0 37	16 49	0 52	12 1	16 18	13 43	14 6	19 45			n.a.
T 23	0 21	12 45	5 11	5 46	1 42	6 35	1 28	24 25	1 50	7 28	0 58	5 14	2 15	5 19	0 37	16 48	0 52	12 0	16 18	13 45	14 7	19 45			n.a.
W24	0n 3	15 42	5 9	4 53	1 35	6 5	1 27	24 29	1 50	7 34	0 58	5 11	2 15	5 18	0 37	16 48	0 52	11 59	16 18	13 47	14 8	19 45			n.a.
T 25	0 26	17 54	4 52	3 58	1 28	5 36	1 27	24 33	1 50	7 39	0 58	5 8	2 15	5 17	0 37	16 47	0 52	11 59	16 18	13 48	14 9	19 45			n.a.
F 26	0 50	19 16	4 23	3 2	1 20	5 6	1 27	24 36	1 49	7 44	0 58	5 5	2 15	5 16	0 37	16 47	0 52	11 58	16 18	13 48	14 10	19 45			n.a.
S 27	1 13	19 45	3 43	2 5	1 12	4 36	1 26	24 39	1 49	7 50	0 57	5 2	2 15	5 15	0 37	16 46	0 52	11 58	16 18	13 48	14 11	19 45			n.a.
S 28	1 37	19 22	2 54	1 7	1 3	4 6	1 26	24 42	1 48	7 55	0 57	4 59	2 15	5 14	0 37	16 46	0 52	11 57	16 18	13 48	14 12	19 45			n.a.
M29	2 0	18 8	1 57	0 8	0 54	3 36	1 25	24 46	1 48	8 0	0 57	4 56	2 15	5 13	0 37	16 45	0 52	11 56	16 18	13 47	14 13	19 45			n.a.
T 30	2 23	16 4	0 55	0n51	0 45	3 6	1 24	24 49	1 48	8 5	0 57	4 53	2 15	5 12	0 37	16 45	0 52	11 56	16 18	13 47	14 14	19 45			n.a.
W31	2n46	13s16	0s11	1n51	0s35	2s36	1s24	24n51	1n47	8n11	0s57	4s50	2s15	5s11	0n37	16s44	0s53	11s55	16s18	13n47	14n15	19s45			n.a.

Julian Day Number = 1676191.5, Delta T = 03h17m55s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'33, Lahiri = - 5°39'33 Julian Calendar 1 March 124 BCE == Greg. Calendar 26 Feb. 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

APRIL 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 24 37	7♈52'52	8♓ 6	8♈ 6	27♓57	17♊41	23♈17	23♓14	14°R24	17♒ 3	7♈32	23°R39	22♌11	15♑18	n.a.	T 1
F 2	12 28 33	8°50'58	20°47	10°15	29°11	18°13	23°31	23°21	14♎22	17° 5	7°33	23♌36	22° 8	15°25	n.a.	F 2
S 3	12 32 30	9°49'03	3♈47	12°25	0♈25	18°46	23°44	23°29	14°19	17° 6	7°34	23°31	22° 5	15°31	n.a.	S 3
S 4	12 36 26	10°47'05	17° 4	14°34	1°39	19°18	23°58	23°36	14°17	17° 8	7°36	23°24	22° 2	15°38	n.a.	S 4
M 5	12 40 23	11°45'06	0♉39	16°44	2°53	19°51	24°12	23°44	14°14	17° 9	7°37	23°16	21°59	15°45	n.a.	M 5
T 6	12 44 20	12°43'05	14°27	18°53	4° 6	20°24	24°26	23°51	14°11	17°11	7°38	23° 8	21°56	15°51	n.a.	T 6
W 7	12 48 16	13°41'02	28°26	21° 1	5°20	20°57	24°40	23°58	14° 9	17°12	7°40	23° 1	21°52	15°58	n.a.	W 7
T 8	12 52 13	14°38'58	12♊31	23° 8	6°34	21°30	24°54	24° 6	14° 6	17°14	7°41	22°55	21°49	16° 5	n.a.	T 8
F 9	12 56 9	15°36'51	26°41	25°13	7°48	22° 3	25° 8	24°13	14° 4	17°15	7°43	22°51	21°46	16°11	n.a.	F 9
S 10	13 0 6	16°34'43	10♋51	27°17	9° 1	22°36	25°22	24°20	14° 1	17°16	7°44	22°D50	21°43	16°18	n.a.	S 10
S 11	13 4 2	17°32'33	25° 0	29°20	10°15	23° 9	25°36	24°28	13°59	17°18	7°45	22°50	21°40	16°25	n.a.	S 11
M12	13 7 59	18°30'21	9♌ 7	1♉20	11°29	23°42	25°50	24°35	13°56	17°19	7°47	22°51	21°36	16°31	n.a.	M12
T 13	13 11 55	19°28'07	23°10	3°17	12°43	24°16	26° 4	24°42	13°54	17°20	7°48	22°R51	21°33	16°38	n.a.	T 13
W14	13 15 52	20°25'51	7♍ 8	5°13	13°56	24°49	26°18	24°49	13°51	17°22	7°49	22°50	21°30	16°45	n.a.	W14
T 15	13 19 49	21°23'33	21° 0	7° 5	15°10	25°23	26°32	24°57	13°49	17°23	7°51	22°47	21°27	16°51	n.a.	T 15
F 16	13 23 45	22°21'14	4♎42	8°55	16°24	25°56	26°46	25° 4	13°46	17°24	7°52	22°42	21°24	16°58	n.a.	F 16
S 17	13 27 42	23°18'53	18°13	10°41	17°37	26°30	27° 0	25°11	13°44	17°25	7°53	22°34	21°21	17° 5	n.a.	S 17
S 18	13 31 38	24°16'31	1♏29	12°25	18°51	27° 3	27°15	25°18	13°41	17°26	7°55	22°24	21°17	17°11	n.a.	S 18
M19	13 35 35	25°14'08	14°30	14° 5	20° 5	27°37	27°29	25°25	13°39	17°28	7°56	22°13	21°14	17°18	n.a.	M19
T 20	13 39 31	26°11'43	27°14	15°43	21°18	28°11	27°43	25°32	13°36	17°29	7°57	22° 3	21°11	17°25	n.a.	T 20
W21	13 43 28	27° 9'17	9♐41	17°17	22°32	28°45	27°57	25°39	13°34	17°30	7°59	21°53	21° 8	17°31	n.a.	W21
T 22	13 47 24	28° 6'50	21°54	18°47	23°46	29°19	28°11	25°46	13°31	17°31	8° 0	21°46	21° 5	17°38	n.a.	T 22
F 23	13 51 21	29° 4'22	3♑54	20°15	24°59	29°53	28°25	25°53	13°29	17°32	8° 1	21°40	21° 2	17°45	n.a.	F 23
S 24	13 55 18	0♉ 1'53	15°47	21°39	26°13	0♋27	28°39	26° 0	13°27	17°33	8° 3	21°37	20°58	17°51	n.a.	S 24
S 25	13 59 14	0°59'23	27°36	22°59	27°27	1° 1	28°53	26° 6	13°24	17°34	8° 4	21°D36	20°55	17°58	n.a.	S 25
M26	14 3 11	1°56'52	9♒28	24°16	28°41	1°35	29° 7	26°13	13°22	17°35	8° 5	21°36	20°52	18° 5	n.a.	M26
T 27	14 7 7	2°54'20	21°27	25°30	29°54	2° 9	29°21	26°20	13°20	17°36	8° 6	21°R37	20°49	18°11	n.a.	T 27
W28	14 11 4	3°51'48	3♓38	26°40	1♉ 8	2°44	29°35	26°26	13°17	17°36	8° 8	21°36	20°46	18°18	n.a.	W28
T 29	14 15 0	4°49'14	16° 7	27°46	2°22	3°18	29°49	26°33	13°15	17°37	8° 9	21°34	20°42	18°25	n.a.	T 29
F 30	14 18 57	5♉46'39	28♓57	28♉49	3♉35	3♋52	0♉ 3	26♓40	13♎13	17♒38	8♈10	21♌29	20♌39	18♑31	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n10	9s49	1s17	2n52	0s25	2s 5	1s23	24n54	1n47	8n16	0s57	4s47	2s15	5s10	0n37	16s44	0s53	11s55	16s18	13n47	14n16	19s45		n.a.
F 2	3 33	5 51	2 21	3 53	0 15	1 35	1 22	24 57	1 46	8 21	0 57	4 44	2 15	5 9	0 37	16 44	0 53	11 54	16 18	13 48	14 17	19 45		n.a.
S 3	3 56	1 32	3 20	4 54	0 4	1 4	1 21	24 59	1 46	8 26	0 57	4 41	2 15	5 8	0 37	16 43	0 53	11 54	16 18	13 50	14 18	19 45		n.a.
S 4	4 19	2n58	4 8	5 54	0n 7	0 34	1 20	25 2	1 46	8 32	0 57	4 38	2 16	5 7	0 37	16 43	0 53	11 53	16 18	13 52	14 19	19 45		n.a.
M 5	4 42	7 24	4 44	6 55	0 17	0 3	1 19	25 4	1 45	8 37	0 56	4 35	2 16	5 6	0 37	16 42	0 53	11 53	16 18	13 55	14 20	19 45		n.a.
T 6	5 5	11 31	5 4	7 54	0 28	0n27	1 18	25 6	1 45	8 42	0 56	4 32	2 16	5 5	0 37	16 42	0 53	11 52	16 18	13 58	14 21	19 44		n.a.
W 7	5 27	15 4	5 6	8 53	0 39	0 58	1 17	25 8	1 44	8 47	0 56	4 30	2 16	5 4	0 37	16 41	0 53	11 52	16 18	14 0	14 22	19 44		n.a.
T 8	5 50	17 46	4 49	9 51	0 49	1 28	1 16	25 10	1 44	8 53	0 56	4 27	2 16	5 3	0 37	16 41	0 53	11 51	16 18	14 2	14 23	19 44		n.a.
F 9	6 13	19 25	4 16	10 47	0 59	1 59	1 15	25 11	1 44	8 58	0 56	4 24	2 16	5 2	0 37	16 41	0 53	11 51	16 18	14 3	14 25	19 44		n.a.
S 10	6 35	19 50	3 26	11 42	1 9	2 29	1 14	25 13	1 43	9 3	0 56	4 21	2 16	5 1	0 37	16 40	0 53	11 50	16 18	14 4	14 26	19 44		n.a.
S 11	6 58	19 1	2 24	12 35	1 19	3 0	1 12	25 14	1 43	9 8	0 56	4 18	2 16	5 0	0 37	16 40	0 53	11 50	16 18	14 4	14 27	19 44		n.a.
M12	7 20	17 0	1 13	13 26	1 28	3 30	1 11	25 16	1 42	9 14	0 56	4 15	2 16	4 59	0 37	16 39	0 53	11 49	16 18	14 3	14 28	19 44		n.a.
T 13	7 42	13 58	0n 2	14 16	1 37	4 1	1 9	25 17	1 42	9 19	0 56	4 13	2 16	4 58	0 37	16 39	0 53	11 49	16 18	14 3	14 29	19 44		n.a.
W14	8 4	10 9	1 16	15 3	1 45	4 31	1 8	25 18	1 42	9 24	0 56	4 10	2 16	4 57	0 37	16 39	0 53	11 48	16 18	14 3	14 30	19 44		n.a.
T 15	8 26	5 49	2 25	15 48	1 52	5 1	1 6	25 19	1 41	9 29	0 56	4 7	2 17	4 56	0 37	16 38	0 53	11 48	16 18	14 4	14 31	19 44		n.a.
F 16	8 48	1 14	3 24	16 30	1 59	5 31	1 5	25 19	1 41	9 34	0 55	4 4	2 17	4 55	0 37	16 38	0 53	11 47	16 18	14 6	14 32	19 44		n.a.
S 17	9 9	3s21	4 11	17 11	2 5	6 1	1 3	25 20	1 40	9 40	0 55	4 1	2 17	4 54	0 37	16 38	0 53	11 47	16 18	14 9	14 33	19 43		n.a.
S 18	9 31	7 41	4 44	17 48	2 11	6 31	1 2	25 20	1 40	9 45	0 55	3 59	2 17	4 54	0 37	16 37	0 53	11 46	16 18	14 12	14 34	19 43		n.a.
M19	9 52	11 35	5 1	18 24	2 15	7 1	1 0	25 21	1 40	9 50	0 55	3 56	2 17	4 53	0 37	16 37	0 53	11 46	16 19	14 16	14 35	19 43		n.a.
T 20	10 13	14 51	5 2	18 57	2 19	7 30	0 58	25 21	1 39	9 55	0 55	3 53	2 17	4 52	0 37	16 37	0 53	11 45	16 19	14 19	14 36	19 43		n.a.
W21	10 34	17 23	4 49	19 27	2 22	8 0	0 56	25 21	1 39	10 0	0 55	3 51	2 17	4 51	0 37	16 36	0 53	11 45	16 19	14 22	14 37	19 43		n.a.
T 22	10 55	19 5	4 23	19 55	2 25	8 29	0 54	25 21	1 38	10 5	0 55	3 48	2 17	4 50	0 37	16 36	0 53	11 44	16 19	14 25	14 38	19 43		n.a.
F 23	11 16	19 53	3 46	20 21	2 26	8 58	0 53	25 20	1 38	10 11	0 55	3 45	2 18	4 49	0 37	16 36	0 53	11 44	16 19	14 26	14 39	19 43		n.a.
S 24	11 37	19 48	2 59	20 45	2 27	9 27	0 51	25 20	1 38	10 16	0 55	3 43	2 18	4 48	0 37	16 36	0 53	11 44	16 19	14 27	14 40	19 43		n.a.
S 25	11 57	18 51	2 4	21 6	2 27	9 55	0 49	25 19	1 37	10 21	0 55	3 40	2 18	4 47	0 37	16 35	0 53	11 43	16 19	14 28	14 41	19 42		n.a.
M26	12 17	17 3	1 4	21 25	2 26	10 24	0 47	25 19	1 37	10 26	0 55	3 38	2 18	4 46	0 37	16 35	0 53	11 43	16 19	14 28	14 42	19 42		n.a.
T 27	12 37	14 30	0 1	21 41	2 24	10 52	0 45	25 18	1 36	10 31	0 55	3 35	2 18	4 45	0 37	16 35	0 54	11 42	16 19	14 28	14 43	19 42		n.a.
W28	12 57	11 16	1s 4	21 55	2 22	11 20	0 43	25 17	1 36	10 36	0 55	3 33	2 18	4 44	0 37	16 35	0 54	11 42	16 19	14 28	14 44	19 42		n.a.
T 29	13 16	7 28	2 6	22 8	2 18	11 48	0 41	25 15	1 36	10 41	0 55	3 30	2 19	4 43	0 37	16 34	0 54	11 42	16 20	14 29	14 45	19 42		n.a.
F 30	13n36	3s14	3s 4	22n18	2n14	12n15	0s39	25n14	1n35	10n46	0s54	3s27	2s19	4s42	0n37	16s34	0s54	11s41	16s20	14n30	14n46	19s42		n.a.

Julian Day Number = 1676222.5, Delta T = 03h17m54s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'29, Lahiri = - 5°39'28 Julian Calendar 1 Apr. 124 BCE == Greg. Calendar 29 March 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

MAY 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 22 53	6♉44'04	12♈10	29♉48	4♉49	4♋27	0♉17	26♓46	13°R10	17♒39	8♈11	21°R22	20♌36	18♑38	n.a.	S 1
S 2	14 26 50	7°41'27	25°46	0♊43	6° 3	5° 1	0°31	26°53	13♎ 8	17°39	8°13	21♌12	20°33	18°45	n.a.	S 2
M 3	14 30 47	8°38'50	9♉43	1°34	7°16	5°36	0°45	26°59	13° 6	17°40	8°14	21° 1	20°30	18°51	n.a.	M 3
T 4	14 34 43	9°36'12	23°58	2°21	8°30	6°11	0°59	27° 5	13° 4	17°41	8°15	20°50	20°27	18°58	n.a.	T 4
W 5	14 38 40	10°33'33	8♊23	3° 4	9°44	6°45	1°13	27°12	13° 2	17°41	8°16	20°39	20°23	19° 5	n.a.	W 5
T 6	14 42 36	11°30'53	22°53	3°43	10°57	7°20	1°27	27°18	12°59	17°42	8°17	20°31	20°20	19°11	n.a.	T 6
F 7	14 46 33	12°28'11	7♋22	4°18	12°11	7°55	1°41	27°24	12°57	17°43	8°19	20°25	20°17	19°18	n.a.	F 7
S 8	14 50 29	13°25'29	21°44	4°48	13°25	8°30	1°55	27°30	12°55	17°43	8°20	20°22	20°14	19°25	n.a.	S 8
S 9	14 54 26	14°22'46	5♌58	5°14	14°38	9° 5	2° 9	27°37	12°53	17°44	8°21	20°21	20°11	19°31	n.a.	S 9
M10	14 58 22	15°20'01	20° 1	5°35	15°52	9°40	2°23	27°43	12°51	17°44	8°22	20°21	20° 8	19°38	n.a.	M10
T 11	15 2 19	16°17'15	3♍52	5°52	17° 6	10°15	2°37	27°49	12°49	17°45	8°23	20°20	20° 4	19°45	n.a.	T 11
W12	15 6 16	17°14'29	17°33	6° 5	18°19	10°50	2°50	27°54	12°47	17°45	8°24	20°18	20° 1	19°51	n.a.	W12
T 13	15 10 12	18°11'41	1♎ 2	6°12	19°33	11°25	3° 4	28° 0	12°45	17°45	8°25	20°14	19°58	19°58	n.a.	T 13
F 14	15 14 9	19° 8'53	14°22	6°R16	20°47	12° 1	3°18	28° 6	12°44	17°46	8°27	20° 7	19°55	20° 5	n.a.	F 14
S 15	15 18 5	20° 6'03	27°29	6°14	22° 0	12°36	3°32	28°12	12°42	17°46	8°28	19°58	19°52	20°11	n.a.	S 15
S 16	15 22 2	21° 3'13	10♏25	6° 9	23°14	13°11	3°45	28°17	12°40	17°46	8°29	19°46	19°48	20°18	n.a.	S 16
M17	15 25 58	22° 0'23	23° 9	5°59	24°28	13°47	3°59	28°23	12°38	17°47	8°30	19°33	19°45	20°25	n.a.	M17
T 18	15 29 55	22°57'32	5♐39	5°44	25°41	14°22	4°13	28°29	12°36	17°47	8°31	19°20	19°42	20°31	n.a.	T 18
W19	15 33 51	23°54'40	17°57	5°26	26°55	14°57	4°26	28°34	12°35	17°47	8°32	19° 9	19°39	20°38	n.a.	W19
T 20	15 37 48	24°51'49	0♑ 3	5° 4	28° 9	15°33	4°40	28°40	12°33	17°47	8°33	18°59	19°36	20°45	n.a.	T 20
F 21	15 41 45	25°48'57	12° 0	4°39	29°22	16° 9	4°53	28°45	12°31	17°47	8°34	18°52	19°33	20°51	n.a.	F 21
S 22	15 45 41	26°46'04	23°51	4°11	0♊36	16°44	5° 7	28°50	12°30	17°47	8°35	18°47	19°29	20°58	n.a.	S 22
S 23	15 49 38	27°43'12	5♒39	3°41	1°50	17°20	5°20	28°55	12°28	17°47	8°36	18°45	19°26	21° 5	n.a.	S 23
M24	15 53 34	28°40'20	17°29	3° 8	3° 3	17°56	5°34	29° 0	12°27	17°R48	8°37	18°D45	19°23	21°11	n.a.	M24
T 25	15 57 31	29°37'27	29°27	2°34	4°17	18°31	5°47	29° 6	12°25	17°48	8°38	18°R45	19°20	21°18	n.a.	T 25
W26	16 1 27	0♊34'35	11♓39	1°59	5°31	19° 7	6° 1	29°11	12°24	17°47	8°39	18°44	19°17	21°25	n.a.	W26
T 27	16 5 24	1°31'42	24° 8	1°24	6°44	19°43	6°14	29°15	12°23	17°47	8°40	18°43	19°13	21°31	n.a.	T 27
F 28	16 9 20	2°28'50	7♈ 0	0°49	7°58	20°19	6°27	29°20	12°21	17°47	8°40	18°39	19°10	21°38	n.a.	F 28
S 29	16 13 17	3°25'58	20°18	0°15	9°12	20°55	6°41	29°25	12°20	17°47	8°41	18°32	19° 7	21°45	n.a.	S 29
S 30	16 17 14	4°23'05	4♉ 4	29♉43	10°25	21°31	6°54	29°30	12°19	17°47	8°42	18°23	19° 4	21°51	n.a.	S 30
M31	16 21 10	5♊20'13	18♉15	29♉12	11♊39	22♋ 7	7♉ 7	29♓34	12♎17	17♒47	8♈43	18♌13	19♌ 1	21♑58	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n55	1n16	3s54	22n26	2n 9	12n42	0s36	25n13	1n35	10n51	0s54	3s25	2s19	4s42	0n37	16s34	0s54	11s41	16s20	14n32	14n47	19s42		n.a.
S 2	14 14	5 50	4 32	22 32	2 3	13 9	0 34	25 11	1 34	10 56	0 54	3 23	2 19	4 41	0 37	16 34	0 54	11 41	16 20	14 36	14 48	19 41		n.a.
M 3	14 33	10 13	4 55	22 36	1 56	13 35	0 32	25 9	1 34	11 1	0 54	3 20	2 19	4 40	0 37	16 34	0 54	11 40	16 20	14 39	14 49	19 41		n.a.
T 4	14 51	14 7	5 1	22 38	1 48	14 1	0 30	25 7	1 33	11 6	0 54	3 18	2 19	4 39	0 37	16 34	0 54	11 40	16 20	14 43	14 50	19 41		n.a.
W 5	15 9	17 14	4 47	22 38	1 39	14 27	0 28	25 5	1 33	11 11	0 54	3 15	2 20	4 38	0 37	16 33	0 54	11 40	16 20	14 46	14 51	19 41		n.a.
T 6	15 27	19 16	4 15	22 36	1 30	14 53	0 25	25 3	1 33	11 16	0 54	3 13	2 20	4 37	0 37	16 33	0 54	11 39	16 21	14 49	14 52	19 41		n.a.
F 7	15 45	20 4	3 27	22 33	1 20	15 18	0 23	25 0	1 32	11 21	0 54	3 11	2 20	4 37	0 37	16 33	0 54	11 39	16 21	14 51	14 53	19 40		n.a.
S 8	16 3	19 32	2 25	22 27	1 8	15 43	0 21	24 58	1 32	11 26	0 54	3 8	2 20	4 36	0 37	16 33	0 54	11 39	16 21	14 52	14 54	19 40		n.a.
S 9	16 20	17 47	1 15	22 20	0 57	16 7	0 19	24 55	1 31	11 31	0 54	3 6	2 20	4 35	0 37	16 33	0 54	11 38	16 21	14 52	14 55	19 40		n.a.
M10	16 37	14 57	0 2	22 12	0 44	16 31	0 16	24 52	1 31	11 35	0 54	3 4	2 20	4 34	0 37	16 33	0 54	11 38	16 21	14 52	14 56	19 40		n.a.
T 11	16 54	11 18	1n11	22 2	0 31	16 54	0 14	24 49	1 31	11 40	0 54	3 2	2 21	4 34	0 37	16 33	0 54	11 38	16 22	14 52	14 57	19 40		n.a.
W12	17 10	7 6	2 19	21 50	0 16	17 18	0 12	24 45	1 30	11 45	0 54	2 59	2 21	4 33	0 37	16 33	0 54	11 38	16 22	14 53	14 58	19 39		n.a.
T 13	17 26	2 36	3 17	21 37	0 2	17 40	0 9	24 42	1 30	11 50	0 54	2 57	2 21	4 32	0 37	16 32	0 54	11 37	16 22	14 54	14 59	19 39		n.a.
F 14	17 42	1s58	4 4	21 22	0s13	18 2	0 7	24 38	1 29	11 55	0 54	2 55	2 21	4 31	0 36	16 32	0 54	11 37	16 22	14 56	15 0	19 39		n.a.
S 15	17 58	6 23	4 38	21 7	0 29	18 24	0 4	24 35	1 29	11 59	0 54	2 53	2 21	4 31	0 36	16 32	0 54	11 37	16 22	14 59	15 1	19 39		n.a.
S 16	18 13	10 25	4 56	20 50	0 45	18 45	0 2	24 31	1 28	12 4	0 54	2 51	2 22	4 30	0 36	16 32	0 54	11 37	16 23	15 3	15 2	19 39		n.a.
M17	18 28	13 56	5 0	20 32	1 2	19 6	0n 0	24 27	1 28	12 9	0 54	2 49	2 22	4 29	0 36	16 32	0 54	11 36	16 23	15 7	15 3	19 38		n.a.
T 18	18 43	16 45	4 48	20 13	1 19	19 26	0 3	24 23	1 28	12 13	0 54	2 47	2 22	4 29	0 36	16 32	0 54	11 36	16 23	15 11	15 4	19 38		n.a.
W19	18 58	18 47	4 24	19 53	1 35	19 46	0 5	24 18	1 27	12 18	0 54	2 45	2 22	4 28	0 36	16 32	0 54	11 36	16 23	15 15	15 5	19 38		n.a.
T 20	19 12	19 55	3 47	19 33	1 52	20 5	0 7	24 14	1 27	12 23	0 54	2 43	2 22	4 27	0 36	16 32	0 54	11 36	16 23	15 18	15 6	19 38		n.a.
F 21	19 26	20 9	3 2	19 12	2 8	20 24	0 10	24 9	1 26	12 27	0 54	2 41	2 23	4 27	0 36	16 32	0 54	11 36	16 24	15 20	15 7	19 37		n.a.
S 22	19 39	19 29	2 8	18 51	2 25	20 42	0 12	24 4	1 26	12 32	0 54	2 39	2 23	4 26	0 36	16 32	0 55	11 35	16 24	15 22	15 8	19 37		n.a.
S 23	19 52	17 57	1 9	18 30	2 40	21 0	0 14	23 59	1 26	12 37	0 54	2 37	2 23	4 26	0 36	16 32	0 55	11 35	16 24	15 22	15 9	19 37		n.a.
M24	20 5	15 40	0 7	18 9	2 55	21 17	0 17	23 54	1 25	12 41	0 54	2 35	2 23	4 25	0 36	16 32	0 55	11 35	16 24	15 22	15 10	19 37		n.a.
T 25	20 18	12 40	0s57	17 49	3 9	21 33	0 19	23 48	1 25	12 46	0 54	2 33	2 24	4 24	0 36	16 32	0 55	11 35	16 25	15 22	15 11	19 36		n.a.
W26	20 30	9 6	1 58	17 29	3 23	21 49	0 21	23 43	1 24	12 50	0 53	2 32	2 24	4 24	0 36	16 32	0 55	11 35	16 25	15 23	15 12	19 36		n.a.
T 27	20 42	5 3	2 56	17 10	3 35	22 4	0 24	23 37	1 24	12 54	0 53	2 30	2 24	4 23	0 36	16 32	0 55	11 35	16 25	15 23	15 13	19 36		n.a.
F 28	20 53	0 39	3 47	16 52	3 46	22 19	0 26	23 32	1 23	12 59	0 53	2 28	2 24	4 23	0 36	16 32	0 55	11 35	16 25	15 24	15 14	19 36		n.a.
S 29	21 5	3n54	4 27	16 36	3 56	22 33	0 28	23 26	1 23	13 3	0 53	2 26	2 24	4 22	0 36	16 33	0 55	11 35	16 26	15 26	15 15	19 35		n.a.
S 30	21 15	8 25	4 53	16 21	4 4	22 46	0 31	23 19	1 22	13 8	0 53	2 25	2 25	4 22	0 36	16 33	0 55	11 34	16 26	15 29	15 16	19 35		n.a.
M31	21n26	12n37	5s 2	16n 7	4s11	22n59	0n33	23n13	1n22	13n12	0s53	2s23	2s25	4s22	0n36	16s33	0s55	11s34	16s26	15n32	15n17	19s35		n.a.

Julian Day Number = 1676252.5, Delta T = 03h17m53s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'25, Lahiri = - 5°39'24 Julian Calendar 1 May 124 BCE == Greg. Calendar 28 Apr. 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

JUNE 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 25 7	6♊17'21	2♊47	28°R45	12♊53	22♋43	7♉20	29♓39	12°R16	17°R47	8♈44	18°R 3	18♑58	22♏ 5	n.a.	T 1
W 2	16 29 3	7°14'29	17°35	28♉20	14° 7	23°19	7°33	29°43	12♎15	17♒46	8°45	17♑53	18°54	22°11	n.a.	W 2
T 3	16 33 0	8°11'37	2♋28	27°58	15°20	23°56	7°46	29°48	12°14	17°46	8°45	17°45	18°51	22°18	n.a.	T 3
F 4	16 36 56	9° 8'45	17°19	27°41	16°34	24°32	7°59	29°52	12°13	17°46	8°46	17°39	18°48	22°25	n.a.	F 4
S 5	16 40 53	10° 5'53	2♌ 0	27°28	17°48	25° 8	8°12	29°56	12°12	17°45	8°47	17°36	18°45	22°31	n.a.	S 5
S 6	16 44 49	11° 3'01	16°27	27°19	19° 1	25°45	8°25	0♈ 0	12°11	17°45	8°48	17°D36	18°42	22°38	n.a.	S 6
M 7	16 48 46	12° 0'08	0♍37	27°D15	20°15	26°21	8°38	0° 4	12°10	17°44	8°48	17°36	18°39	22°45	n.a.	M 7
T 8	16 52 43	12°57'16	14°28	27°16	21°29	26°57	8°50	0° 8	12°10	17°44	8°49	17°R36	18°35	22°51	n.a.	T 8
W 9	16 56 39	13°54'23	28° 1	27°22	22°43	27°34	9° 3	0°12	12° 9	17°44	8°50	17°35	18°32	22°58	n.a.	W 9
T 10	17 0 36	14°51'30	11♎18	27°33	23°56	28°11	9°16	0°16	12° 8	17°43	8°51	17°32	18°29	23° 5	n.a.	T 10
F 11	17 4 32	15°48'37	24°21	27°49	25°10	28°47	9°28	0°20	12° 7	17°42	8°51	17°27	18°26	23°11	n.a.	F 11
S 12	17 8 29	16°45'45	7♏11	28°11	26°24	29°24	9°41	0°23	12° 7	17°42	8°52	17°20	18°23	23°18	n.a.	S 12
S 13	17 12 25	17°42'52	19°48	28°38	27°38	0♌ 0	9°53	0°27	12° 6	17°41	8°52	17°10	18°19	23°25	n.a.	S 13
M14	17 16 22	18°40'00	2♐14	29°10	28°51	0°37	10° 6	0°30	12° 6	17°41	8°53	17° 0	18°16	23°31	n.a.	M14
T 15	17 20 19	19°37'08	14°30	29°47	0♋ 5	1°14	10°18	0°33	12° 5	17°40	8°54	16°49	18°13	23°38	n.a.	T 15
W16	17 24 15	20°34'17	26°37	0♊30	1°19	1°51	10°30	0°37	12° 5	17°39	8°54	16°40	18°10	23°45	n.a.	W16
T 17	17 28 12	21°31'26	8♏35	1°18	2°33	2°28	10°42	0°40	12° 4	17°39	8°55	16°32	18° 7	23°51	n.a.	T 17
F 18	17 32 8	22°28'36	20°27	2°11	3°46	3° 5	10°54	0°43	12° 4	17°38	8°55	16°27	18° 4	23°58	n.a.	F 18
S 19	17 36 5	23°25'46	2♒15	3° 8	5° 0	3°42	11° 7	0°46	12° 4	17°37	8°56	16°24	18° 0	24° 5	n.a.	S 19
S 20	17 40 1	24°22'58	14° 2	4°11	6°14	4°19	11°18	0°49	12° 4	17°36	8°56	16°D22	17°57	24°11	n.a.	S 20
M21	17 43 58	25°20'09	25°53	5°19	7°28	4°56	11°30	0°51	12° 3	17°35	8°57	16°23	17°54	24°18	n.a.	M21
T 22	17 47 54	26°17'22	7♓51	6°32	8°41	5°33	11°42	0°54	12° 3	17°35	8°57	16°24	17°51	24°24	n.a.	T 22
W23	17 51 51	27°14'36	20° 1	7°49	9°55	6°10	11°54	0°57	12° 3	17°34	8°57	16°25	17°48	24°31	n.a.	W23
T 24	17 55 48	28°11'51	2♈29	9°11	11° 9	6°47	12° 6	0°59	12°D 3	17°33	8°58	16°R25	17°45	24°38	n.a.	T 24
F 25	17 59 44	29° 9'06	15°19	10°37	12°23	7°24	12°17	1° 2	12° 3	17°32	8°58	16°24	17°41	24°44	n.a.	F 25
S 26	18 3 41	0♋ 6'23	28°35	12° 8	13°36	8° 2	12°29	1° 4	12° 3	17°31	8°59	16°21	17°38	24°51	n.a.	S 26
S 27	18 7 37	1° 3'41	12♉19	13°43	14°50	8°39	12°40	1° 6	12° 4	17°30	8°59	16°16	17°35	24°58	n.a.	S 27
M28	18 11 34	2° 1'00	26°32	15°22	16° 4	9°16	12°52	1° 8	12° 4	17°29	8°59	16°10	17°32	25° 4	n.a.	M28
T 29	18 15 30	2°58'20	11♊10	17° 5	17°18	9°54	13° 3	1°10	12° 4	17°28	9° 0	16° 3	17°29	25°11	n.a.	T 29
W30	18 19 27	3♋55'41	26♊ 7	18♊51	18♋31	10♌31	13♉14	1♈12	12♎ 4	17♒27	9♈ 0	15♑57	17♑25	25♏18	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n36	16n10	4s52	15n56	4s17	23n11	0n35	23n 7	1n22	13n16	0s53	2s21	2s25	4s21	0n36	16s33	0s55	11s34	16s26	15n36	15n18	19s34		n.a.
W 2	21 46	18 45	4 23	15 47	4 21	23 22	0 37	23 0	1 21	13 21	0 53	2 20	2 25	4 21	0 36	16 33	0 55	11 34	16 27	15 39	15 19	19 34		n.a.
T 3	21 55	20 5	3 36	15 39	4 23	23 33	0 39	22 53	1 21	13 25	0 53	2 18	2 26	4 20	0 36	16 33	0 55	11 34	16 27	15 41	15 20	19 34		n.a.
F 4	22 4	20 2	2 34	15 34	4 24	23 43	0 42	22 46	1 20	13 29	0 53	2 17	2 26	4 20	0 36	16 33	0 55	11 34	16 27	15 43	15 21	19 34		n.a.
S 5	22 13	18 36	1 22	15 32	4 24	23 52	0 44	22 39	1 20	13 33	0 53	2 15	2 26	4 20	0 36	16 33	0 55	11 34	16 27	15 44	15 22	19 33		n.a.
S 6	22 21	15 59	0 6	15 31	4 22	24 1	0 46	22 32	1 19	13 38	0 53	2 14	2 26	4 19	0 36	16 34	0 55	11 34	16 28	15 44	15 23	19 33		n.a.
M 7	22 29	12 27	1n 9	15 33	4 20	24 8	0 48	22 25	1 19	13 42	0 53	2 13	2 27	4 19	0 36	16 34	0 55	11 34	16 28	15 44	15 24	19 33		n.a.
T 8	22 36	8 18	2 18	15 37	4 15	24 16	0 50	22 17	1 19	13 46	0 53	2 11	2 27	4 19	0 36	16 34	0 55	11 34	16 28	15 44	15 25	19 32		n.a.
W 9	22 44	3 49	3 18	15 44	4 10	24 22	0 52	22 9	1 18	13 50	0 53	2 10	2 27	4 18	0 36	16 34	0 55	11 34	16 29	15 44	15 26	19 32		n.a.
T 10	22 50	0s45	4 6	15 53	4 4	24 28	0 54	22 2	1 18	13 54	0 53	2 9	2 27	4 18	0 36	16 34	0 55	11 34	16 29	15 45	15 27	19 32		n.a.
F 11	22 57	5 12	4 40	16 3	3 56	24 33	0 56	21 54	1 17	13 58	0 53	2 7	2 28	4 18	0 36	16 34	0 55	11 34	16 29	15 47	15 28	19 31		n.a.
S 12	23 2	9 20	5 0	16 16	3 48	24 37	0 58	21 45	1 17	14 2	0 53	2 6	2 28	4 18	0 36	16 35	0 55	11 34	16 29	15 49	15 29	19 31		n.a.
S 13	23 8	13 0	5 4	16 31	3 39	24 41	0 59	21 37	1 16	14 6	0 53	2 5	2 28	4 18	0 36	16 35	0 55	11 34	16 30	15 52	15 30	19 31		n.a.
M14	23 13	16 2	4 54	16 48	3 29	24 43	1 1	21 29	1 16	14 10	0 53	2 4	2 29	4 17	0 35	16 35	0 55	11 34	16 30	15 55	15 31	19 30		n.a.
T 15	23 18	18 19	4 30	17 6	3 18	24 46	1 3	21 20	1 15	14 14	0 53	2 3	2 29	4 17	0 35	16 35	0 55	11 34	16 30	15 58	15 32	19 30		n.a.
W16	23 22	19 45	3 54	17 26	3 7	24 47	1 5	21 11	1 15	14 18	0 53	2 2	2 29	4 17	0 35	16 36	0 56	11 34	16 31	16 1	15 33	19 30		n.a.
T 17	23 26	20 17	3 9	17 47	2 55	24 47	1 6	21 2	1 15	14 21	0 53	2 1	2 29	4 17	0 35	16 36	0 56	11 34	16 31	16 3	15 34	19 29		n.a.
F 18	23 29	19 55	2 15	18 10	2 43	24 47	1 8	20 53	1 14	14 25	0 53	2 0	2 30	4 17	0 35	16 36	0 56	11 34	16 31	16 5	15 35	19 29		n.a.
S 19	23 33	18 39	1 15	18 34	2 30	24 46	1 10	20 44	1 14	14 29	0 53	1 59	2 30	4 17	0 35	16 36	0 56	11 34	16 32	16 6	15 36	19 29		n.a.
S 20	23 35	16 36	0 13	18 58	2 17	24 45	1 11	20 35	1 13	14 33	0 54	1 58	2 30	4 17	0 35	16 37	0 56	11 35	16 32	16 6	15 37	19 28		n.a.
M21	23 37	13 50	0s51	19 23	2 4	24 42	1 13	20 25	1 13	14 36	0 54	1 57	2 30	4 17	0 35	16 37	0 56	11 35	16 32	16 6	15 38	19 28		n.a.
T 22	23 39	10 28	1 53	19 49	1 51	24 39	1 14	20 16	1 12	14 40	0 54	1 56	2 31	4 17	0 35	16 37	0 56	11 35	16 33	16 6	15 39	19 28		n.a.
W23	23 41	6 37	2 52	20 16	1 37	24 35	1 15	20 6	1 12	14 44	0 54	1 55	2 31	4 17	0 35	16 38	0 56	11 35	16 33	16 6	15 40	19 27		n.a.
T 24	23 42	2 25	3 43	20 42	1 24	24 31	1 17	19 56	1 11	14 47	0 54	1 55	2 31	4 17	0 35	16 38	0 56	11 35	16 33	16 6	15 41	19 27		n.a.
F 25	23 42	2n 1	4 25	21 8	1 10	24 25	1 18	19 46	1 11	14 51	0 54	1 54	2 32	4 17	0 35	16 38	0 56	11 35	16 33	16 6	15 42	19 26		n.a.
S 26	23 42	6 30	4 55	21 34	0 56	24 19	1 19	19 36	1 10	14 54	0 54	1 53	2 32	4 17	0 35	16 39	0 56	11 35	16 34	16 7	15 43	19 26		n.a.
S 27	23 42	10 49	5 9	22 0	0 43	24 12	1 20	19 26	1 10	14 58	0 54	1 53	2 32	4 17	0 35	16 39	0 56	11 35	16 34	16 8	15 44	19 26		n.a.
M28	23 42	14 40	5 4	22 24	0 30	24 5	1 21	19 15	1 9	15 1	0 54	1 52	2 32	4 17	0 35	16 39	0 56	11 36	16 34	16 10	15 45	19 25		n.a.
T 29	23 40	17 44	4 40	22 48	0 17	23 56	1 22	19 4	1 9	15 5	0 54	1 52	2 33	4 17	0 35	16 40	0 56	11 36	16 35	16 12	15 46	19 25		n.a.
W30	23n39	19n42	3s57	23n10	0s 4	23n47	1n23	18n54	1n 9	15n 8	0s54	1s51	2s33	4s17	0n35	16s40	0s56	11s36	16s35	16n14	15n47	19s24		n.a.

Julian Day Number = 1676283.5, Delta T = 03h17m52s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'20, Lahiri = - 5°39'20 Julian Calendar 1 June 124 BCE == Greg. Calendar 29 May 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

JULY 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 23 23	4♋53'03	11♋14	20♊41	19♋45	11♌ 9	13♉25	1♈14	12♎ 5	17°R26	9♈ 0	15°R52	17♌22	25♑24	n.a.	T 1
F 2	18 27 20	5°50'27	26°22	22°33	20°59	11°46	13°36	1°15	12° 5	17♒25	9° 0	15♌49	17°19	25°31	n.a.	F 2
S 3	18 31 17	6°47'51	11♌22	24°28	22°13	12°24	13°47	1°17	12° 5	17°23	9° 1	15°D48	17°16	25°38	n.a.	S 3
S 4	18 35 13	7°45'15	26° 6	26°26	23°27	13° 2	13°58	1°18	12° 6	17°22	9° 1	15°48	17°13	25°44	n.a.	S 4
M 5	18 39 10	8°42'41	10♍28	28°25	24°40	13°39	14° 9	1°20	12° 7	17°21	9° 1	15°49	17°10	25°51	n.a.	M 5
T 6	18 43 6	9°40'07	24°28	0♋26	25°54	14°17	14°19	1°21	12° 7	17°20	9° 1	15°50	17° 6	25°58	n.a.	T 6
W 7	18 47 3	10°37'34	8♎ 4	2°28	27° 8	14°55	14°30	1°22	12° 8	17°19	9° 1	15°R51	17° 3	26° 4	n.a.	W 7
T 8	18 50 59	11°35'02	21°19	4°31	28°22	15°33	14°40	1°23	12° 9	17°17	9° 1	15°51	17° 0	26°11	n.a.	T 8
F 9	18 54 56	12°32'31	4♏14	6°35	29°35	16°11	14°50	1°24	12° 9	17°16	9° 1	15°49	16°57	26°18	n.a.	F 9
S 10	18 58 52	13°30'01	16°52	8°39	0♌49	16°49	15° 1	1°25	12°10	17°15	9° 1	15°46	16°54	26°24	n.a.	S 10
S 11	19 2 49	14°27'31	29°17	10°43	2° 3	17°27	15°11	1°26	12°11	17°14	9° 1	15°41	16°51	26°31	n.a.	S 11
M12	19 6 46	15°25'03	11♐30	12°46	3°17	18° 5	15°21	1°26	12°12	17°12	9° 1	15°36	16°47	26°38	n.a.	M12
T 13	19 10 42	16°22'36	23°34	14°50	4°31	18°43	15°31	1°27	12°13	17°11	9°R 1	15°31	16°44	26°44	n.a.	T 13
W14	19 14 39	17°20'11	5♑31	16°52	5°44	19°21	15°40	1°27	12°14	17° 9	9° 1	15°26	16°41	26°51	n.a.	W14
T 15	19 18 35	18°17'46	17°23	18°54	6°58	19°59	15°50	1°28	12°15	17° 8	9° 1	15°23	16°38	26°58	n.a.	T 15
F 16	19 22 32	19°15'23	29°11	20°55	8°12	20°38	16° 0	1°28	12°16	17° 7	9° 1	15°20	16°35	27° 4	n.a.	F 16
S 17	19 26 28	20°13'02	10♒59	22°54	9°25	21°16	16° 9	1°28	12°17	17° 5	9° 1	15°D19	16°31	27°11	n.a.	S 17
S 18	19 30 25	21°10'41	22°48	24°53	10°39	21°54	16°18	1°R28	12°19	17° 4	9° 1	15°20	16°28	27°18	n.a.	S 18
M19	19 34 21	22° 8'23	4♓42	26°50	11°53	22°32	16°28	1°28	12°20	17° 2	9° 1	15°21	16°25	27°24	n.a.	M19
T 20	19 38 18	23° 6'06	16°44	28°46	13° 7	23°11	16°37	1°28	12°21	17° 1	9° 1	15°22	16°22	27°31	n.a.	T 20
W21	19 42 15	24° 3'50	28°56	0♌41	14°20	23°49	16°46	1°27	12°23	16°59	9° 1	15°24	16°19	27°38	n.a.	W21
T 22	19 46 11	25° 1'37	11♈25	2°35	15°34	24°28	16°55	1°27	12°24	16°58	9° 1	15°25	16°16	27°44	n.a.	T 22
F 23	19 50 8	25°59'25	24°13	4°27	16°48	25° 6	17° 3	1°26	12°25	16°56	9° 0	15°R25	16°12	27°51	n.a.	F 23
S 24	19 54 4	26°57'15	7♉24	6°17	18° 2	25°45	17°12	1°26	12°27	16°55	9° 0	15°25	16° 9	27°57	n.a.	S 24
S 25	19 58 1	27°55'07	21° 2	8° 7	19°15	26°24	17°21	1°25	12°29	16°53	9° 0	15°24	16° 6	28° 4	n.a.	S 25
M26	20 1 57	28°53'01	5♊ 6	9°55	20°29	27° 2	17°29	1°24	12°30	16°52	9° 0	15°22	16° 3	28°11	n.a.	M26
T 27	20 5 54	29°50'57	19°36	11°42	21°43	27°41	17°37	1°23	12°32	16°50	8°59	15°20	16° 0	28°17	n.a.	T 27
W28	20 9 50	0♌48'55	4♋27	13°27	22°56	28°20	17°45	1°22	12°34	16°49	8°59	15°19	15°57	28°24	n.a.	W28
T 29	20 13 47	1°46'55	19°33	15°11	24°10	28°59	17°53	1°21	12°35	16°47	8°59	15°17	15°53	28°31	n.a.	T 29
F 30	20 17 44	2°44'57	4♌46	16°54	25°24	29°38	18° 1	1°20	12°37	16°46	8°58	15°16	15°50	28°37	n.a.	F 30
S 31	20 21 40	3♌43'00	19♌54	18♌35	26♌37	0♍17	18♉ 9	1♈18	12♎39	16♒44	8♈58	15°D16	15♌47	28♑44	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23n37	20n18	2s57	23n30	0n 8	23n38	1n24	18n43	1n 8	15n11	0s54	1s51	2s33	4s18	0n35	16s40	0s56	11s36	16s35	16n16	15n48	19s24			n.a.
F 2	23 35	19 25	1 44	23 49	0 19	23 27	1 25	18 32	1 8	15 15	0 54	1 50	2 34	4 18	0 35	16 41	0 56	11 36	16 36	16 16	15 49	19 24			n.a.
S 3	23 32	17 11	0 24	24 6	0 30	23 16	1 26	18 21	1 7	15 18	0 54	1 50	2 34	4 18	0 35	16 41	0 56	11 37	16 36	16 17	15 50	19 23			n.a.
S 4	23 29	13 50	0n56	24 20	0 41	23 4	1 27	18 9	1 7	15 21	0 54	1 50	2 34	4 18	0 35	16 42	0 56	11 37	16 36	16 17	15 51	19 23			n.a.
M 5	23 25	9 44	2 11	24 32	0 50	22 52	1 27	17 58	1 6	15 24	0 54	1 49	2 34	4 18	0 35	16 42	0 56	11 37	16 37	16 16	15 52	19 22			n.a.
T 6	23 21	5 12	3 15	24 42	0 59	22 39	1 28	17 47	1 6	15 27	0 54	1 49	2 35	4 19	0 35	16 42	0 56	11 37	16 37	16 16	15 53	19 22			n.a.
W 7	23 17	0 33	4 7	24 49	1 7	22 25	1 29	17 35	1 5	15 30	0 54	1 49	2 35	4 19	0 35	16 43	0 56	11 38	16 37	16 16	15 54	19 21			n.a.
T 8	23 12	4s 1	4 44	24 53	1 15	22 10	1 29	17 23	1 5	15 34	0 54	1 49	2 35	4 19	0 35	16 43	0 56	11 38	16 38	16 16	15 55	19 21			n.a.
F 9	23 7	8 16	5 6	24 54	1 22	21 55	1 29	17 11	1 4	15 37	0 54	1 49	2 36	4 20	0 35	16 44	0 56	11 38	16 38	16 16	15 56	19 21			n.a.
S 10	23 1	12 4	5 12	24 53	1 28	21 40	1 30	16 59	1 4	15 40	0 54	1 49	2 36	4 20	0 34	16 44	0 56	11 38	16 38	16 17	15 57	19 20			n.a.
S 11	22 55	15 17	5 4	24 48	1 33	21 23	1 30	16 47	1 3	15 42	0 54	1 49	2 36	4 20	0 34	16 44	0 56	11 39	16 39	16 19	15 58	19 20			n.a.
M12	22 48	17 46	4 41	24 42	1 37	21 6	1 30	16 35	1 3	15 45	0 54	1 49	2 37	4 21	0 34	16 45	0 56	11 39	16 39	16 20	15 59	19 19			n.a.
T 13	22 41	19 27	4 7	24 32	1 40	20 49	1 30	16 22	1 2	15 48	0 54	1 49	2 37	4 21	0 34	16 45	0 56	11 39	16 39	16 22	16 0	19 19			n.a.
W14	22 34	20 14	3 21	24 20	1 43	20 30	1 30	16 10	1 2	15 51	0 54	1 49	2 37	4 22	0 34	16 46	0 56	11 40	16 40	16 23	16 1	19 18			n.a.
T 15	22 27	20 7	2 28	24 6	1 45	20 12	1 30	15 57	1 1	15 54	0 54	1 49	2 37	4 22	0 34	16 46	0 56	11 40	16 40	16 24	16 2	19 18			n.a.
F 16	22 18	19 7	1 28	23 49	1 47	19 52	1 30	15 44	1 1	15 57	0 54	1 49	2 38	4 23	0 34	16 47	0 57	11 40	16 40	16 25	16 3	19 17			n.a.
S 17	22 10	17 17	0 24	23 30	1 47	19 33	1 30	15 31	1 0	15 59	0 54	1 49	2 38	4 23	0 34	16 47	0 57	11 41	16 41	16 25	16 4	19 17			n.a.
S 18	22 1	14 43	0s41	23 9	1 47	19 12	1 30	15 19	1 0	16 2	0 55	1 50	2 38	4 24	0 34	16 48	0 57	11 41	16 41	16 25	16 5	19 16			n.a.
M19	21 52	11 31	1 45	22 46	1 47	18 51	1 30	15 5	0 59	16 5	0 55	1 50	2 39	4 24	0 34	16 48	0 57	11 41	16 41	16 25	16 6	19 16			n.a.
T 20	21 42	7 49	2 45	22 22	1 46	18 30	1 29	14 52	0 59	16 7	0 55	1 50	2 39	4 25	0 34	16 49	0 57	11 42	16 42	16 24	16 7	19 15			n.a.
W21	21 32	3 45	3 38	21 55	1 44	18 8	1 29	14 39	0 58	16 10	0 55	1 51	2 39	4 25	0 34	16 49	0 57	11 42	16 42	16 24	16 7	19 15			n.a.
T 22	21 22	0n33	4 23	21 27	1 42	17 45	1 28	14 25	0 58	16 12	0 55	1 51	2 39	4 26	0 34	16 49	0 57	11 42	16 42	16 24	16 8	19 14			n.a.
F 23	21 11	4 55	4 55	20 58	1 39	17 22	1 28	14 12	0 57	16 15	0 55	1 52	2 40	4 27	0 34	16 50	0 57	11 43	16 43	16 23	16 9	19 14			n.a.
S 24	21 0	9 12	5 13	20 27	1 36	16 59	1 27	13 58	0 57	16 17	0 55	1 52	2 40	4 27	0 34	16 50	0 57	11 43	16 43	16 24	16 10	19 13			n.a.
S 25	20 49	13 9	5 15	19 56	1 32	16 35	1 27	13 45	0 56	16 19	0 55	1 53	2 40	4 28	0 34	16 51	0 57	11 43	16 43	16 24	16 11	19 13			n.a.
M26	20 37	16 30	4 58	19 23	1 28	16 11	1 26	13 31	0 56	16 22	0 55	1 53	2 41	4 28	0 34	16 51	0 57	11 44	16 43	16 24	16 12	19 12			n.a.
T 27	20 25	18 57	4 22	18 49	1 24	15 46	1 25	13 17	0 55	16 24	0 55	1 54	2 41	4 29	0 34	16 52	0 57	11 44	16 44	16 25	16 13	19 12			n.a.
W28	20 12	20 11	3 27	18 14	1 19	15 21	1 24	13 3	0 55	16 26	0 55	1 55	2 41	4 30	0 34	16 52	0 57	11 45	16 44	16 26	16 14	19 11			n.a.
T 29	19 59	19 59	2 18	17 38	1 14	14 55	1 23	12 48	0 54	16 28	0 55	1 55	2 41	4 31	0 34	16 53	0 57	11 45	16 44	16 26	16 15	19 11			n.a.
F 30	19 46	18 21	0 58	17 2	1 8	14 29	1 22	12 34	0 54	16 30	0 55	1 56	2 42	4 31	0 34	16 53	0 57	11 45	16 45	16 26	16 16	19 10			n.a.
S 31	19n32	15n25	0n26	16n25	1n 3	14n 3	1n21	12n20	0n53	16n33	0s55	1s57	2s42	4s32	0n34	16s54	0s57	11s46	16s45	16n26	16n17	19s10			n.a.

Julian Day Number = 1676313.5, Delta T = 03h17m51s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'16, Lahiri = - 5°39'16 Julian Calendar 1 July 124 BCE == Greg. Calendar 28 June 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

AUGUST 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 25 37	4♌41'04	4♍50	20♌16	27♌51	0♍56	18♉16	1°R17	12♎41	16°R42	8°R58	15♌17	15♌44	28♉51	n.a.	S 1
M 2	20 29 33	5°39'11	19°25	21°55	29° 5	1°35	18°24	1♈15	12°43	16♒41	8♈57	15°17	15°41	28°57	n.a.	M 2
T 3	20 33 30	6°37'18	3♎37	23°32	0♍18	2°14	18°31	1°14	12°45	16°39	8°57	15°18	15°37	29° 4	n.a.	T 3
W 4	20 37 26	7°35'28	17°22	25° 9	1°32	2°53	18°38	1°12	12°47	16°37	8°56	15°19	15°34	29°11	n.a.	W 4
T 5	20 41 23	8°33'39	0♏41	26°44	2°46	3°32	18°45	1°10	12°49	16°36	8°56	15°19	15°31	29°17	n.a.	T 5
F 6	20 45 19	9°31'51	13°37	28°18	3°59	4°12	18°52	1° 8	12°51	16°34	8°55	15°R19	15°28	29°24	n.a.	F 6
S 7	20 49 16	10°30'05	26°12	29°51	5°13	4°51	18°58	1° 6	12°53	16°33	8°55	15°19	15°25	29°31	n.a.	S 7
S 8	20 53 13	11°28'21	8♐30	1♍22	6°26	5°30	19° 5	1° 4	12°56	16°31	8°54	15°19	15°22	29°37	n.a.	S 8
M 9	20 57 9	12°26'39	20°36	2°53	7°40	6°10	19°11	1° 2	12°58	16°29	8°54	15°18	15°18	29°44	n.a.	M 9
T 10	21 1 6	13°24'58	2♑32	4°22	8°54	6°49	19°17	0°59	13° 0	16°28	8°53	15°18	15°15	29°51	n.a.	T 10
W11	21 5 2	14°23'19	14°23	5°50	10° 7	7°29	19°23	0°57	13° 2	16°26	8°53	15°18	15°12	29°57	n.a.	W11
T 12	21 8 59	15°21'41	26°12	7°16	11°21	8° 8	19°29	0°54	13° 5	16°24	8°52	15°D18	15° 9	0♒ 4	n.a.	T 12
F 13	21 12 55	16°20'06	8♒ 0	8°42	12°34	8°48	19°35	0°52	13° 7	16°23	8°51	15°18	15° 6	0°11	n.a.	F 13
S 14	21 16 52	17°18'32	19°51	10° 6	13°48	9°28	19°41	0°49	13°10	16°21	8°51	15°R18	15° 2	0°17	n.a.	S 14
S 15	21 20 48	18°17'01	1♓46	11°28	15° 1	10° 7	19°46	0°46	13°12	16°19	8°50	15°18	14°59	0°24	n.a.	S 15
M16	21 24 45	19°15'31	13°49	12°50	16°15	10°47	19°51	0°43	13°15	16°18	8°49	15°17	14°56	0°30	n.a.	M16
T 17	21 28 42	20°14'04	26° 0	14°10	17°28	11°27	19°56	0°40	13°17	16°16	8°49	15°17	14°53	0°37	n.a.	T 17
W18	21 32 38	21°12'39	8♈22	15°29	18°41	12° 7	20° 1	0°37	13°20	16°14	8°48	15°16	14°50	0°44	n.a.	W18
T 19	21 36 35	22°11'16	20°57	16°46	19°55	12°47	20° 6	0°34	13°23	16°13	8°47	15°15	14°47	0°50	n.a.	T 19
F 20	21 40 31	23° 9'55	3♉49	18° 1	21° 8	13°27	20°10	0°31	13°25	16°11	8°47	15°15	14°43	0°57	n.a.	F 20
S 21	21 44 28	24° 8'37	16°59	19°15	22°22	14° 7	20°15	0°27	13°28	16° 9	8°46	15°14	14°40	1° 4	n.a.	S 21
S 22	21 48 24	25° 7'21	0♊30	20°28	23°35	14°47	20°19	0°24	13°31	16° 8	8°45	15°D14	14°37	1°10	n.a.	S 22
M23	21 52 21	26° 6'07	14°23	21°38	24°48	15°27	20°23	0°20	13°34	16° 6	8°44	15°15	14°34	1°17	n.a.	M23
T 24	21 56 17	27° 4'56	28°38	22°47	26° 2	16° 7	20°27	0°17	13°36	16° 5	8°44	15°16	14°31	1°24	n.a.	T 24
W25	22 0 14	28° 3'47	13♋12	23°54	27°15	16°47	20°30	0°13	13°39	16° 3	8°43	15°17	14°28	1°30	n.a.	W25
T 26	22 4 10	29° 2'41	28° 3	24°58	28°28	17°27	20°34	0°10	13°42	16° 1	8°42	15°17	14°24	1°37	n.a.	T 26
F 27	22 8 7	0♍ 1'37	13♌ 3	26° 1	29°42	18° 8	20°37	0° 6	13°45	16° 0	8°41	15°R18	14°21	1°44	n.a.	F 27
S 28	22 12 4	1° 0'35	28° 5	27° 1	0♎55	18°48	20°40	0° 2	13°48	15°58	8°40	15°18	14°18	1°50	n.a.	S 28
S 29	22 16 0	1°59'35	12♍59	27°58	2° 8	19°29	20°43	29♓58	13°51	15°57	8°39	15°16	14°15	1°57	n.a.	S 29
M30	22 19 57	2°58'37	27°39	28°52	3°22	20° 9	20°46	29°54	13°54	15°55	8°38	15°14	14°12	2° 4	n.a.	M30
T 31	22 23 53	3♍57'41	11♎58	29♍44	4♎35	20♍50	20♉48	29♓50	13♎57	15♒53	8♈38	15♌12	14♌ 8	2♒10	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	19n18	11n30	1n47	15n47	0n57	13n36	1n20	12n 5	0n53	16n35	0s55	1s58	2s42	4s33	0n34	16s54	0s57	11s46	16s45	16n26	16n18	19s 9			n.a.
M 2	19 4	6 58	2 59	15 9	0 50	13 9	1 18	11 51	0 52	16 37	0 55	1 59	2 43	4 34	0 34	16 55	0 57	11 47	16 46	16 26	16 19	19 9			n.a.
T 3	18 50	2 10	3 58	14 31	0 44	12 41	1 17	11 36	0 52	16 39	0 55	1 59	2 43	4 35	0 34	16 55	0 57	11 47	16 46	16 26	16 20	19 8			n.a.
W 4	18 35	2s34	4 41	13 52	0 37	12 14	1 16	11 21	0 51	16 40	0 56	2 0	2 43	4 35	0 34	16 56	0 57	11 48	16 46	16 25	16 21	19 8			n.a.
T 5	18 20	7 2	5 7	13 13	0 30	11 45	1 14	11 7	0 51	16 42	0 56	2 1	2 43	4 36	0 34	16 57	0 57	11 48	16 46	16 25	16 22	19 7			n.a.
F 6	18 4	11 3	5 18	12 34	0 23	11 17	1 13	10 52	0 50	16 44	0 56	2 2	2 44	4 37	0 34	16 57	0 57	11 48	16 47	16 25	16 23	19 7			n.a.
S 7	17 48	14 28	5 12	11 54	0 16	10 48	1 11	10 37	0 50	16 46	0 56	2 4	2 44	4 38	0 33	16 58	0 57	11 49	16 47	16 25	16 24	19 6			n.a.
S 8	17 32	17 10	4 52	11 14	0 8	10 19	1 9	10 22	0 49	16 48	0 56	2 5	2 44	4 39	0 33	16 58	0 57	11 49	16 47	16 25	16 25	19 5			n.a.
M 9	17 16	19 3	4 20	10 34	0 1	9 50	1 8	10 6	0 49	16 49	0 56	2 6	2 44	4 40	0 33	16 59	0 57	11 50	16 48	16 26	16 26	19 5			n.a.
T 10	16 59	20 5	3 36	9 55	0s 7	9 21	1 6	9 51	0 48	16 51	0 56	2 7	2 45	4 41	0 33	16 59	0 57	11 50	16 48	16 26	16 27	19 4			n.a.
W11	16 42	20 13	2 44	9 15	0 15	8 51	1 4	9 36	0 48	16 52	0 56	2 8	2 45	4 42	0 33	17 0	0 57	11 51	16 48	16 26	16 27	19 4			n.a.
T 12	16 25	19 27	1 44	8 35	0 23	8 21	1 2	9 20	0 47	16 54	0 56	2 9	2 45	4 43	0 33	17 0	0 57	11 51	16 48	16 26	16 28	19 3			n.a.
F 13	16 7	17 49	0 40	7 55	0 31	7 51	1 0	9 5	0 47	16 55	0 56	2 11	2 45	4 44	0 33	17 1	0 57	11 52	16 49	16 26	16 29	19 3			n.a.
S 14	15 49	15 26	0s25	7 16	0 39	7 20	0 58	8 49	0 46	16 57	0 56	2 12	2 46	4 45	0 33	17 1	0 57	11 52	16 49	16 26	16 30	19 2			n.a.
S 15	15 31	12 22	1 30	6 37	0 47	6 50	0 56	8 34	0 46	16 58	0 56	2 13	2 46	4 46	0 33	17 2	0 57	11 53	16 49	16 26	16 31	19 1			n.a.
M16	15 13	8 46	2 32	5 58	0 55	6 19	0 54	8 18	0 45	17 0	0 56	2 15	2 46	4 47	0 33	17 2	0 57	11 53	16 49	16 26	16 32	19 1			n.a.
T 17	14 54	4 47	3 27	5 19	1 4	5 48	0 52	8 2	0 45	17 1	0 57	2 16	2 46	4 48	0 33	17 3	0 57	11 54	16 50	16 26	16 33	19 0			n.a.
W18	14 35	0 32	4 14	4 41	1 12	5 17	0 50	7 46	0 44	17 2	0 57	2 18	2 46	4 49	0 33	17 3	0 57	11 54	16 50	16 26	16 34	19 0			n.a.
T 19	14 16	3n48	4 49	4 3	1 20	4 46	0 47	7 30	0 44	17 3	0 57	2 19	2 47	4 50	0 33	17 4	0 57	11 55	16 50	16 26	16 35	18 59			n.a.
F 20	13 57	8 3	5 11	3 26	1 29	4 14	0 45	7 14	0 43	17 5	0 57	2 21	2 47	4 51	0 33	17 4	0 57	11 55	16 50	16 27	16 36	18 58			n.a.
S 21	13 37	12 2	5 17	2 49	1 37	3 43	0 43	6 58	0 42	17 6	0 57	2 22	2 47	4 52	0 33	17 5	0 57	11 56	16 51	16 27	16 37	18 58			n.a.
S 22	13 18	15 30	5 6	2 13	1 45	3 11	0 40	6 42	0 42	17 7	0 57	2 24	2 47	4 53	0 33	17 5	0 57	11 56	16 51	16 27	16 38	18 57			n.a.
M23	12 58	18 11	4 37	1 37	1 53	2 40	0 38	6 26	0 41	17 8	0 57	2 25	2 48	4 54	0 33	17 6	0 57	11 57	16 51	16 27	16 39	18 57			n.a.
T 24	12 37	19 51	3 51	1 3	2 1	2 8	0 35	6 10	0 41	17 9	0 57	2 27	2 48	4 55	0 33	17 6	0 57	11 57	16 51	16 26	16 40	18 56			n.a.
W25	12 17	20 15	2 49	0 29	2 9	1 36	0 32	5 53	0 40	17 10	0 57	2 28	2 48	4 57	0 33	17 7	0 57	11 58	16 52	16 26	16 41	18 55			n.a.
T 26	11 56	19 15	1 34	0s 4	2 17	1 4	0 30	5 37	0 40	17 10	0 57	2 30	2 48	4 58	0 33	17 7	0 57	11 58	16 52	16 26	16 42	18 55			n.a.
F 27	11 35	16 53	0 12	0 36	2 25	0 32	0 27	5 21	0 39	17 11	0 57	2 32	2 48	4 59	0 33	17 8	0 57	11 59	16 52	16 26	16 43	18 54			n.a.
S 28	11 14	13 22	1n10	1 7	2 32	0 0	0 24	5 4	0 39	17 12	0 57	2 33	2 48	5 0	0 33	17 8	0 57	11 59	16 52	16 26	16 43	18 53			n.a.
S 29	10 53	9 1	2 27	1 37	2 39	0s32	0 22	4 48	0 38	17 13	0 57	2 35	2 49	5 1	0 33	17 9	0 57	12 0	16 52	16 26	16 44	18 53			n.a.
M30	10 32	4 12	3 34	2 5	2 46	1 4	0 19	4 31	0 38	17 13	0 58	2 37	2 49	5 2	0 33	17 9	0 57	12 0	16 53	16 27	16 45	18 52			n.a.
T 31	10n10	0s44	4n24	2s32	2s53	1s36	0n16	4n14	0n37	17n14	0s58	2s39	2s49	5s 4	0n33	17s10	0s57	12s 1	16s53	16n28	16n46	18s51			n.a.

Julian Day Number = 1676344.5, Delta T = 03h17m50s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'12, Lahiri = - 5°39'12 Julian Calendar 1 Aug. 124 BCE == Greg. Calendar 29 July 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

SEPTEMBER 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 27 50	4♍56'47	25♎51	0♎32	5♎48	21♍30	20♉50	29°R46	14♎ 0	15°R52	8°R37	15°R 9	14♌ 5	2♒17	n.a.	W 1
T 2	22 31 46	5°55'55	9♏17	1°16	7° 1	22°11	20°52	29♓42	14° 4	15♒50	8♈36	15♌ 7	14° 2	2°23	n.a.	T 2
F 3	22 35 43	6°55'05	22°17	1°56	8°14	22°52	20°54	29°37	14° 7	15°49	8°35	15° 5	13°59	2°30	n.a.	F 3
S 4	22 39 39	7°54'17	4♐55	2°33	9°28	23°32	20°56	29°33	14°10	15°47	8°34	15°D 5	13°56	2°37	n.a.	S 4
S 5	22 43 36	8°53'31	17°12	3° 4	10°41	24°13	20°58	29°29	14°13	15°46	8°33	15° 5	13°53	2°43	n.a.	S 5
M 6	22 47 33	9°52'47	29°16	3°30	11°54	24°54	20°59	29°25	14°16	15°44	8°32	15° 6	13°49	2°50	n.a.	M 6
T 7	22 51 29	10°52'04	11♑ 9	3°51	13° 7	25°35	21° 0	29°20	14°20	15°43	8°31	15° 8	13°46	2°57	n.a.	T 7
W 8	22 55 26	11°51'24	22°58	4° 6	14°20	26°16	21° 1	29°16	14°23	15°41	8°30	15° 9	13°43	3° 3	n.a.	W 8
T 9	22 59 22	12°50'45	4♒46	4°14	15°33	26°57	21° 2	29°11	14°26	15°40	8°29	15°11	13°40	3°10	n.a.	T 9
F 10	23 3 19	13°50'08	16°36	4°R15	16°46	27°38	21° 2	29° 7	14°30	15°39	8°28	15°R11	13°37	3°17	n.a.	F 10
S 11	23 7 15	14°49'34	28°33	4° 9	17°59	28°19	21° 3	29° 2	14°33	15°37	8°27	15°10	13°34	3°23	n.a.	S 11
S 12	23 11 12	15°49'01	10♓38	3°55	19°12	29° 0	21°R 3	28°57	14°36	15°36	8°26	15° 8	13°30	3°30	n.a.	S 12
M13	23 15 8	16°48'30	22°53	3°33	20°25	29°41	21° 3	28°53	14°40	15°34	8°25	15° 4	13°27	3°37	n.a.	M13
T 14	23 19 5	17°48'02	5♈20	3° 2	21°38	0♎23	21° 3	28°48	14°43	15°33	8°24	14°59	13°24	3°43	n.a.	T 14
W15	23 23 1	18°47'36	17°59	2°24	22°51	1° 4	21° 2	28°43	14°47	15°32	8°23	14°53	13°21	3°50	n.a.	W15
T 16	23 26 58	19°47'12	0♉51	1°36	24° 3	1°45	21° 1	28°39	14°50	15°31	8°22	14°47	13°18	3°57	n.a.	T 16
F 17	23 30 55	20°46'50	13°56	0°42	25°16	2°27	21° 1	28°34	14°54	15°29	8°21	14°42	13°14	4° 3	n.a.	F 17
S 18	23 34 51	21°46'31	27°14	29♍40	26°29	3° 8	20°59	28°29	14°57	15°28	8°20	14°38	13°11	4°10	n.a.	S 18
S 19	23 38 48	22°46'14	10♊47	28°32	27°42	3°50	20°58	28°24	15° 1	15°27	8°18	14°35	13° 8	4°16	n.a.	S 19
M20	23 42 44	23°46'00	24°34	27°20	28°54	4°31	20°57	28°19	15° 4	15°26	8°17	14°D35	13° 5	4°23	n.a.	M20
T 21	23 46 41	24°45'48	8♋35	26° 6	0♏ 7	5°13	20°55	28°15	15° 8	15°24	8°16	14°35	13° 2	4°30	n.a.	T 21
W22	23 50 37	25°45'38	22°51	24°51	1°20	5°55	20°53	28°10	15°11	15°23	8°15	14°37	12°59	4°36	n.a.	W22
T 23	23 54 34	26°45'31	7♌18	23°38	2°32	6°36	20°51	28° 5	15°15	15°22	8°14	14°R38	12°55	4°43	n.a.	T 23
F 24	23 58 30	27°45'26	21°55	22°29	3°45	7°18	20°49	28° 0	15°19	15°21	8°13	14°38	12°52	4°50	n.a.	F 24
S 25	0 2 27	28°45'23	6♍36	21°26	4°58	8° 0	20°46	27°55	15°22	15°20	8°12	14°36	12°49	4°56	n.a.	S 25
S 26	0 6 24	29°45'22	21°14	20°31	6°10	8°42	20°44	27°50	15°26	15°19	8°11	14°32	12°46	5° 3	n.a.	S 26
M27	0 10 20	0♎45'24	5♎44	19°46	7°23	9°24	20°41	27°46	15°29	15°18	8°10	14°26	12°43	5°10	n.a.	M27
T 28	0 14 17	1°45'27	19°57	19°11	8°35	10° 6	20°38	27°41	15°33	15°17	8° 8	14°18	12°39	5°16	n.a.	T 28
W29	0 18 13	2°45'32	3♏50	18°48	9°48	10°48	20°35	27°36	15°37	15°16	8° 7	14°10	12°36	5°23	n.a.	W29
T 30	0 22 10	3♎45'39	17♏18	18♍35	11♏ 0	11♎30	20♉31	27♓31	15♎40	15♒15	8♈ 6	14♌ 2	12♌33	5♒30	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	9n48	5s28	4n58	2s57	2s59	2s 8	0n13	3n58	0n36	17n14	0s58	2s41	2s49	5s 5	0n33	17s10	0s57	12s 1	16s53	16n28	16n47	18s51			n.a.
T 2	9 26	9 47	5 14	3 20	3 5	2 40	0 10	3 41	0 36	17 15	0 58	2 42	2 49	5 6	0 33	17 11	0 57	12 2	16 53	16 29	16 48	18 50			n.a.
F 3	9 4	13 30	5 13	3 42	3 11	3 12	0 7	3 24	0 35	17 15	0 58	2 44	2 49	5 7	0 33	17 11	0 57	12 2	16 53	16 30	16 49	18 49			n.a.
S 4	8 42	16 29	4 57	4 1	3 16	3 43	0 4	3 7	0 35	17 16	0 58	2 46	2 50	5 9	0 33	17 11	0 57	12 3	16 53	16 30	16 50	18 49			n.a.
S 5	8 20	18 39	4 28	4 18	3 20	4 15	0 1	2 51	0 34	17 16	0 58	2 48	2 50	5 10	0 33	17 12	0 57	12 3	16 54	16 30	16 51	18 48			n.a.
M 6	7 57	19 56	3 47	4 32	3 24	4 47	0s 2	2 34	0 34	17 16	0 58	2 50	2 50	5 11	0 33	17 12	0 57	12 4	16 54	16 29	16 52	18 47			n.a.
T 7	7 34	20 18	2 57	4 43	3 27	5 18	0 5	2 17	0 33	17 17	0 58	2 52	2 50	5 13	0 33	17 13	0 57	12 4	16 54	16 29	16 53	18 47			n.a.
W 8	7 12	19 46	1 59	4 51	3 30	5 50	0 8	2 0	0 33	17 17	0 58	2 54	2 50	5 14	0 33	17 13	0 57	12 5	16 54	16 28	16 54	18 46			n.a.
T 9	6 49	18 22	0 57	4 55	3 31	6 21	0 11	1 43	0 32	17 17	0 58	2 55	2 50	5 15	0 33	17 14	0 57	12 6	16 54	16 28	16 55	18 45			n.a.
F 10	6 26	16 10	0s 8	4 56	3 31	6 53	0 14	1 26	0 31	17 17	0 58	2 57	2 50	5 17	0 33	17 14	0 57	12 6	16 54	16 28	16 56	18 45			n.a.
S 11	6 2	13 15	1 13	4 52	3 30	7 24	0 17	1 9	0 31	17 17	0 58	2 59	2 50	5 18	0 33	17 14	0 57	12 7	16 54	16 28	16 56	18 44			n.a.
S 12	5 39	9 44	2 15	4 44	3 27	7 55	0 20	0 52	0 30	17 17	0 58	3 1	2 50	5 19	0 33	17 15	0 57	12 7	16 55	16 29	16 57	18 43			n.a.
M13	5 16	5 47	3 12	4 32	3 23	8 25	0 23	0 35	0 30	17 17	0 59	3 3	2 51	5 21	0 33	17 15	0 57	12 8	16 55	16 30	16 58	18 42			n.a.
T 14	4 52	1 32	4 0	4 14	3 18	8 56	0 27	0 18	0 29	17 17	0 59	3 5	2 51	5 22	0 33	17 16	0 57	12 8	16 55	16 31	16 59	18 42			n.a.
W15	4 29	2n51	4 38	3 52	3 10	9 26	0 30	0 0	0 28	17 17	0 59	3 7	2 51	5 23	0 32	17 16	0 57	12 9	16 55	16 33	17 0	18 41			n.a.
T 16	4 5	7 11	5 2	3 25	3 1	9 57	0 33	0s17	0 28	17 16	0 59	3 9	2 51	5 25	0 32	17 16	0 57	12 9	16 55	16 35	17 1	18 40			n.a.
F 17	3 42	11 15	5 11	2 52	2 50	10 26	0 36	0 34	0 27	17 16	0 59	3 11	2 51	5 26	0 32	17 17	0 57	12 10	16 55	16 36	17 2	18 40			n.a.
S 18	3 18	14 50	5 4	2 16	2 37	10 56	0 39	0 51	0 27	17 16	0 59	3 13	2 51	5 27	0 32	17 17	0 57	12 10	16 55	16 38	17 3	18 39			n.a.
S 19	2 54	17 42	4 40	1 35	2 22	11 26	0 42	1 8	0 26	17 15	0 59	3 15	2 51	5 29	0 32	17 18	0 57	12 11	16 55	16 38	17 4	18 38			n.a.
M20	2 30	19 37	3 59	0 51	2 5	11 55	0 46	1 26	0 26	17 15	0 59	3 17	2 51	5 30	0 32	17 18	0 57	12 11	16 55	16 39	17 5	18 37			n.a.
T 21	2 6	20 23	3 3	0 4	1 47	12 24	0 49	1 43	0 25	17 14	0 59	3 19	2 51	5 32	0 32	17 18	0 57	12 12	16 55	16 38	17 6	18 37			n.a.
W22	1 42	19 51	1 56	0n44	1 28	12 53	0 52	2 0	0 24	17 14	0 59	3 21	2 51	5 33	0 32	17 19	0 57	12 12	16 56	16 38	17 7	18 36			n.a.
T 23	1 18	18 1	0 40	1 31	1 8	13 21	0 55	2 17	0 24	17 13	0 59	3 23	2 51	5 34	0 32	17 19	0 57	12 13	16 56	16 38	17 7	18 35			n.a.
F 24	0 54	14 59	0n39	2 18	0 47	13 49	0 58	2 35	0 23	17 13	0 59	3 25	2 51	5 36	0 32	17 19	0 57	12 13	16 56	16 38	17 8	18 34			n.a.
S 25	0 30	10 59	1 56	3 2	0 27	14 17	1 1	2 52	0 23	17 12	0 59	3 27	2 51	5 37	0 32	17 20	0 57	12 14	16 56	16 38	17 9	18 34			n.a.
S 26	0 6	6 20	3 5	3 42	0 6	14 44	1 5	3 9	0 22	17 11	0 59	3 29	2 51	5 39	0 32	17 20	0 57	12 14	16 56	16 39	17 10	18 33			n.a.
M27	0s18	1 23	4 1	4 18	0n13	15 12	1 8	3 26	0 21	17 10	0 59	3 31	2 51	5 40	0 32	17 20	0 57	12 14	16 56	16 41	17 11	18 32			n.a.
T 28	0 42	3s34	4 41	4 48	0 31	15 38	1 11	3 43	0 21	17 9	0 59	3 33	2 51	5 42	0 32	17 20	0 57	12 15	16 56	16 43	17 12	18 31			n.a.
W29	1 7	8 11	5 3	5 13	0 48	16 5	1 14	4 1	0 20	17 9	0 59	3 34	2 51	5 43	0 32	17 21	0 57	12 15	16 56	16 46	17 13	18 30			n.a.
T 30	1s31	12s17	5n 7	5n32	1n 4	16s31	1s17	4s18	0n20	17n 8	0s59	3s36	2s51	5s44	0n32	17s21	0s57	12s16	16s56	16n48	17n14	18s30			n.a.

Julian Day Number = 1676375.5, Delta T = 03h17m49s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'08, Lahiri = - 5°39'07 Julian Calendar 1 Sept. 124 BCE == Greg. Calendar 29 Aug. 124 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

OCTOBER 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 26 6	4♎45'48	0♐21	18°D35	12♏12	12♎12	20°R27	27°R26	15♎44	15°R14	8°R 5	13°R55	12♌30	5♒36	n.a.	F 1
S 2	0 30 3	5°45'59	13° 1	18♍45	13°25	12°55	20♉24	27♓22	15°48	15♒13	8♈ 4	13♌50	12°27	5°43	n.a.	S 2
S 3	0 33 59	6°46'11	25°21	19° 6	14°37	13°37	20°20	27°17	15°52	15°12	8° 3	13°48	12°24	5°50	n.a.	S 3
M 4	0 37 56	7°46'25	7♑25	19°37	15°49	14°19	20°15	27°12	15°55	15°11	8° 2	13°D47	12°20	5°56	n.a.	M 4
T 5	0 41 52	8°46'40	19°19	20°17	17° 2	15° 2	20°11	27° 7	15°59	15°10	8° 1	13°47	12°17	6° 3	n.a.	T 5
W 6	0 45 49	9°46'58	1♒ 7	21° 4	18°14	15°44	20° 6	27° 3	16° 3	15° 9	7°59	13°48	12°14	6° 9	n.a.	W 6
T 7	0 49 46	10°47'16	12°55	21°59	19°26	16°27	20° 2	26°58	16° 7	15° 9	7°58	13°R49	12°11	6°16	n.a.	T 7
F 8	0 53 42	11°47'37	24°48	23° 0	20°38	17° 9	19°57	26°54	16°10	15° 8	7°57	13°48	12° 8	6°23	n.a.	F 8
S 9	0 57 39	12°47'58	6♓50	24° 6	21°50	17°52	19°52	26°49	16°14	15° 7	7°56	13°45	12° 5	6°29	n.a.	S 9
S 10	1 1 35	13°48'22	19° 5	25°18	23° 2	18°34	19°47	26°45	16°18	15° 6	7°55	13°40	12° 1	6°36	n.a.	S 10
M11	1 5 32	14°48'47	1♈34	26°33	24°14	19°17	19°41	26°40	16°22	15° 6	7°54	13°32	11°58	6°43	n.a.	M11
T 12	1 9 28	15°49'14	14°20	27°52	25°26	20° 0	19°36	26°36	16°25	15° 5	7°53	13°22	11°55	6°49	n.a.	T 12
W13	1 13 25	16°49'42	27°21	29°14	26°37	20°43	19°30	26°31	16°29	15° 5	7°51	13°11	11°52	6°56	n.a.	W13
T 14	1 17 21	17°50'12	10♉36	0♎38	27°49	21°26	19°24	26°27	16°33	15° 4	7°50	12°59	11°49	7° 3	n.a.	T 14
F 15	1 21 18	18°50'45	24° 3	2° 4	29° 1	22° 8	19°18	26°23	16°37	15° 4	7°49	12°49	11°45	7° 9	n.a.	F 15
S 16	1 25 15	19°51'19	7♊41	3°32	0♐12	22°51	19°12	26°18	16°40	15° 3	7°48	12°40	11°42	7°16	n.a.	S 16
S 17	1 29 11	20°51'54	21°28	5° 2	1°24	23°34	19° 5	26°14	16°44	15° 3	7°47	12°34	11°39	7°23	n.a.	S 17
M18	1 33 8	21°52'32	5♋21	6°33	2°36	24°17	18°59	26°10	16°48	15° 2	7°46	12°31	11°36	7°29	n.a.	M18
T 19	1 37 4	22°53'12	19°20	8° 4	3°47	25° 1	18°52	26° 6	16°52	15° 2	7°45	12°D30	11°33	7°36	n.a.	T 19
W20	1 41 1	23°53'53	3♌25	9°37	4°58	25°44	18°46	26° 2	16°55	15° 1	7°44	12°30	11°30	7°42	n.a.	W20
T 21	1 44 57	24°54'36	17°34	11°10	6°10	26°27	18°39	25°58	16°59	15° 1	7°43	12°R30	11°26	7°49	n.a.	T 21
F 22	1 48 54	25°55'21	1♍46	12°43	7°21	27°10	18°32	25°54	17° 3	15° 1	7°42	12°28	11°23	7°56	n.a.	F 22
S 23	1 52 50	26°56'08	16° 1	14°17	8°32	27°54	18°25	25°50	17° 6	15° 1	7°41	12°25	11°20	8° 2	n.a.	S 23
S 24	1 56 47	27°56'56	0♎13	15°51	9°43	28°37	18°18	25°47	17°10	15° 0	7°39	12°18	11°17	8° 9	n.a.	S 24
M25	2 0 44	28°57'46	14°18	17°25	10°54	29°20	18°10	25°43	17°14	15° 0	7°38	12° 8	11°14	8°16	n.a.	M25
T 26	2 4 40	29°58'37	28°13	19° 0	12° 5	0♏ 4	18° 3	25°40	17°18	15° 0	7°37	11°57	11°10	8°22	n.a.	T 26
W27	2 8 37	0♏59'30	11♏52	20°34	13°16	0°47	17°55	25°36	17°21	15° 0	7°36	11°44	11° 7	8°29	n.a.	W27
T 28	2 12 33	2° 0'24	25°12	22° 9	14°27	1°31	17°48	25°33	17°25	15° 0	7°35	11°31	11° 4	8°36	n.a.	T 28
F 29	2 16 30	3° 1'19	8♐11	23°43	15°38	2°15	17°40	25°29	17°29	15° 0	7°34	11°19	11° 1	8°42	n.a.	F 29
S 30	2 20 26	4° 2'15	20°50	25°18	16°48	2°58	17°32	25°26	17°32	15°D 0	7°33	11°10	10°58	8°49	n.a.	S 30
S 31	2 24 23	5♏ 3'12	3♑10	26♎52	17♐59	3♏42	17♉25	25♓23	17♎36	15♒ 0	7♈32	11♌ 4	10♌55	8♒56	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s55	15s39	4n55	5n45	1n17	16s56	1s20	4s35	0n19	17n 7	0s59	3s38	2s51	5s46	0n32	17s21	0s57	12s16	16s56	16n50	17n15	18s29		n.a.
S 2	2 19	18 10	4 29	5 52	1 29	17 21	1 23	4 52	0 18	17 5	0 59	3 40	2 51	5 47	0 32	17 22	0 57	12 17	16 56	16 52	17 16	18 28		n.a.
S 3	2 43	19 47	3 51	5 53	1 40	17 46	1 26	5 9	0 18	17 4	0 59	3 42	2 51	5 49	0 32	17 22	0 57	12 17	16 56	16 52	17 16	18 27		n.a.
M 4	3 7	20 27	3 3	5 49	1 49	18 10	1 29	5 27	0 17	17 3	1 0	3 44	2 51	5 50	0 32	17 22	0 57	12 18	16 56	16 53	17 17	18 27		n.a.
T 5	3 31	20 11	2 8	5 40	1 56	18 34	1 32	5 44	0 17	17 2	1 0	3 46	2 51	5 52	0 32	17 22	0 57	12 18	16 56	16 52	17 18	18 26		n.a.
W 6	3 55	19 2	1 8	5 26	2 2	18 58	1 34	6 1	0 16	17 1	1 0	3 47	2 51	5 53	0 32	17 23	0 57	12 18	16 56	16 52	17 19	18 25		n.a.
T 7	4 19	17 3	0 5	5 8	2 6	19 21	1 37	6 18	0 15	17 0	1 0	3 49	2 51	5 55	0 32	17 23	0 57	12 19	16 56	16 52	17 20	18 24		n.a.
F 8	4 43	14 19	0s59	4 47	2 9	19 43	1 40	6 35	0 15	16 58	1 0	3 51	2 51	5 56	0 32	17 23	0 57	12 19	16 56	16 52	17 21	18 23		n.a.
S 9	5 7	10 57	2 0	4 22	2 11	20 5	1 43	6 52	0 14	16 57	1 0	3 53	2 50	5 58	0 32	17 23	0 57	12 20	16 56	16 53	17 22	18 22		n.a.
S 10	5 30	7 5	2 57	3 54	2 12	20 26	1 45	7 9	0 14	16 55	1 0	3 55	2 50	5 59	0 32	17 23	0 57	12 20	16 56	16 55	17 23	18 22		n.a.
M11	5 54	2 49	3 46	3 24	2 12	20 47	1 48	7 26	0 13	16 54	1 0	3 56	2 50	6 1	0 32	17 24	0 57	12 20	16 56	16 57	17 24	18 21		n.a.
T 12	6 18	1n38	4 26	2 52	2 11	21 7	1 51	7 43	0 12	16 52	1 0	3 58	2 50	6 2	0 32	17 24	0 57	12 21	16 55	17 0	17 25	18 20		n.a.
W13	6 41	6 7	4 52	2 17	2 10	21 27	1 53	8 0	0 12	16 51	1 0	4 0	2 50	6 3	0 32	17 24	0 57	12 21	16 55	17 3	17 25	18 19		n.a.
T 14	7 4	10 23	5 3	1 41	2 7	21 46	1 56	8 16	0 11	16 49	1 0	4 1	2 50	6 5	0 32	17 24	0 57	12 22	16 55	17 6	17 26	18 18		n.a.
F 15	7 28	14 12	4 57	1 4	2 4	22 5	1 58	8 33	0 10	16 48	1 0	4 3	2 50	6 6	0 32	17 24	0 57	12 22	16 55	17 9	17 27	18 17		n.a.
S 16	7 51	17 19	4 35	0 25	2 1	22 23	2 0	8 50	0 10	16 46	1 0	4 4	2 50	6 8	0 32	17 24	0 57	12 22	16 55	17 12	17 28	18 17		n.a.
S 17	8 14	19 30	3 57	0s14	1 57	22 40	2 3	9 7	0 9	16 44	1 0	4 6	2 50	6 9	0 32	17 24	0 57	12 23	16 55	17 14	17 29	18 16		n.a.
M18	8 37	20 32	3 4	0 55	1 52	22 57	2 5	9 23	0 9	16 42	0 59	4 8	2 49	6 11	0 32	17 24	0 57	12 23	16 55	17 14	17 30	18 15		n.a.
T 19	9 0	20 19	2 0	1 35	1 48	23 13	2 7	9 40	0 8	16 41	0 59	4 9	2 49	6 12	0 32	17 25	0 57	12 23	16 55	17 15	17 31	18 14		n.a.
W20	9 22	18 50	0 48	2 17	1 43	23 29	2 9	9 56	0 7	16 39	0 59	4 11	2 49	6 14	0 32	17 25	0 57	12 24	16 55	17 15	17 32	18 13		n.a.
T 21	9 45	16 10	0n27	2 59	1 37	23 44	2 11	10 13	0 7	16 37	0 59	4 12	2 49	6 15	0 32	17 25	0 57	12 24	16 55	17 15	17 33	18 12		n.a.
F 22	10 7	12 31	1 40	3 41	1 32	23 58	2 13	10 29	0 6	16 35	0 59	4 13	2 49	6 17	0 32	17 25	0 57	12 24	16 55	17 15	17 33	18 11		n.a.
S 23	10 30	8 9	2 48	4 23	1 26	24 12	2 15	10 45	0 5	16 33	0 59	4 15	2 49	6 18	0 32	17 25	0 57	12 25	16 54	17 16	17 34	18 11		n.a.
S 24	10 52	3 20	3 44	5 5	1 20	24 25	2 17	11 2	0 5	16 31	0 59	4 16	2 48	6 19	0 32	17 25	0 56	12 25	16 54	17 18	17 35	18 10		n.a.
M25	11 14	1s37	4 27	5 47	1 13	24 37	2 19	11 18	0 4	16 29	0 59	4 17	2 48	6 21	0 32	17 25	0 56	12 25	16 54	17 21	17 36	18 9		n.a.
T 26	11 35	6 25	4 52	6 29	1 7	24 49	2 20	11 34	0 4	16 27	0 59	4 19	2 48	6 22	0 32	17 25	0 56	12 25	16 54	17 24	17 37	18 8		n.a.
W27	11 57	10 48	5 1	7 11	1 1	24 59	2 22	11 50	0 3	16 25	0 59	4 20	2 48	6 24	0 32	17 25	0 56	12 26	16 54	17 28	17 38	18 7		n.a.
T 28	12 18	14 33	4 52	7 53	0 54	25 10	2 23	12 6	0 2	16 23	0 59	4 21	2 48	6 25	0 32	17 25	0 56	12 26	16 54	17 31	17 39	18 6		n.a.
F 29	12 39	17 30	4 29	8 34	0 47	25 19	2 25	12 22	0 2	16 21	0 59	4 22	2 48	6 27	0 32	17 25	0 56	12 26	16 53	17 35	17 40	18 5		n.a.
S 30	13 0	19 31	3 53	9 16	0 41	25 28	2 26	12 37	0 1	16 19	0 59	4 23	2 47	6 28	0 32	17 25	0 56	12 26	16 53	17 37	17 41	18 4		n.a.
S 31	13s21	20s34	3n 6	9s56	0n34	25s36	2s27	12s53	0n 0	16n17	0s59	4s24	2s47	6s29	0n32	17s25	0s56	12s27	16s53	17n39	17n41	18s 3		n.a.

Julian Day Number = 1676405.5, Delta T = 03h17m48s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'04, Lahiri = - 5°39'03 Julian Calendar 1 Oct. 124 BCE == Greg. Calendar 28 Sept. 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

NOVEMBER 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 28 19	6♏ 4'10	15♑14	28♎26	19♐10	4♏26	17°R17	25°R20	17♎40	15♒ 0	7°R31	11°R 1	10♌51	9♒ 2	n.a.	M 1
T 2	2 32 16	7° 5'09	27° 8	0♏ 1	20°20	5°10	17♉ 9	25♓17	17°43	15° 0	7♈30	10♌59	10°48	9° 9	n.a.	T 2
W 3	2 36 13	8° 6'09	8♒56	1°35	21°30	5°54	17° 1	25°14	17°47	15° 0	7°29	10°59	10°45	9°16	n.a.	W 3
T 4	2 40 9	9° 7'10	20°44	3°10	22°40	6°38	16°53	25°11	17°50	15° 0	7°28	10°59	10°42	9°22	n.a.	T 4
F 5	2 44 6	10° 8'11	2♓37	4°44	23°50	7°22	16°45	25° 9	17°54	15° 0	7°27	10°58	10°39	9°29	n.a.	F 5
S 6	2 48 2	11° 9'13	14°42	6°18	25° 0	8° 6	16°37	25° 6	17°57	15° 0	7°27	10°54	10°36	9°35	n.a.	S 6
S 7	2 51 59	12°10'16	27° 2	7°52	26°10	8°50	16°28	25° 3	18° 1	15° 1	7°26	10°48	10°32	9°42	n.a.	S 7
M 8	2 55 55	13°11'20	9♈41	9°26	27°20	9°34	16°20	25° 1	18° 4	15° 1	7°25	10°39	10°29	9°49	n.a.	M 8
T 9	2 59 52	14°12'24	22°41	11° 1	28°29	10°18	16°12	24°59	18° 8	15° 1	7°24	10°28	10°26	9°55	n.a.	T 9
W10	3 3 48	15°13'29	6♉ 1	12°35	29°39	11° 2	16° 4	24°56	18°11	15° 2	7°23	10°15	10°23	10° 2	n.a.	W10
T 11	3 7 45	16°14'35	19°40	14° 9	0♑48	11°47	15°56	24°54	18°15	15° 2	7°22	10° 2	10°20	10° 9	n.a.	T 11
F 12	3 11 42	17°15'42	3♊35	15°43	1°57	12°31	15°48	24°52	18°18	15° 3	7°21	9°50	10°16	10°15	n.a.	F 12
S 13	3 15 38	18°16'49	17°40	17°18	3° 6	13°15	15°39	24°50	18°22	15° 3	7°20	9°39	10°13	10°22	n.a.	S 13
S 14	3 19 35	19°17'58	1♋51	18°52	4°15	14° 0	15°31	24°49	18°25	15° 3	7°20	9°32	10°10	10°29	n.a.	S 14
M15	3 23 31	20°19'07	16° 4	20°27	5°24	14°44	15°23	24°47	18°28	15° 4	7°19	9°28	10° 7	10°35	n.a.	M15
T 16	3 27 28	21°20'17	0♌16	22° 1	6°33	15°29	15°15	24°45	18°32	15° 5	7°18	9°26	10° 4	10°42	n.a.	T 16
W17	3 31 24	22°21'29	14°24	23°36	7°41	16°13	15° 7	24°44	18°35	15° 5	7°17	9°D26	10° 1	10°49	n.a.	W17
T 18	3 35 21	23°22'40	28°28	25°11	8°49	16°58	14°59	24°43	18°38	15° 6	7°17	9°R26	9°57	10°55	n.a.	T 18
F 19	3 39 17	24°23'53	12♍26	26°46	9°57	17°42	14°51	24°41	18°41	15° 6	7°16	9°25	9°54	11° 2	n.a.	F 19
S 20	3 43 14	25°25'07	26°19	28°21	11° 5	18°27	14°43	24°40	18°45	15° 7	7°15	9°22	9°51	11° 8	n.a.	S 20
S 21	3 47 11	26°26'21	10♎ 6	29°57	12°13	19°12	14°35	24°39	18°48	15° 8	7°14	9°15	9°48	11°15	n.a.	S 21
M22	3 51 7	27°27'36	23°45	1♐32	13°21	19°57	14°27	24°38	18°51	15° 9	7°14	9° 6	9°45	11°22	n.a.	M22
T 23	3 55 4	28°28'51	7♏13	3° 8	14°28	20°42	14°20	24°37	18°54	15° 9	7°13	8°55	9°42	11°28	n.a.	T 23
W24	3 59 0	29°30'07	20°29	4°44	15°35	21°26	14°12	24°37	18°57	15°10	7°12	8°42	9°38	11°35	n.a.	W24
T 25	4 2 57	0♐31'23	3♐31	6°20	16°42	22°11	14° 4	24°36	19° 0	15°11	7°12	8°30	9°35	11°42	n.a.	T 25
F 26	4 6 53	1°32'39	16°17	7°57	17°49	22°56	13°57	24°35	19° 3	15°12	7°11	8°19	9°32	11°48	n.a.	F 26
S 27	4 10 50	2°33'56	28°47	9°33	18°55	23°41	13°49	24°35	19° 6	15°13	7°11	8° 9	9°29	11°55	n.a.	S 27
S 28	4 14 46	3°35'13	11♑ 1	11°10	20° 2	24°26	13°42	24°35	19° 9	15°14	7°10	8° 3	9°26	12° 2	n.a.	S 28
M29	4 18 43	4°36'29	23° 3	12°47	21° 8	25°12	13°35	24°35	19°12	15°15	7° 9	7°59	9°22	12° 8	n.a.	M29
T 30	4 22 40	5♐37'46	4♒56	14♐24	22♑14	25♏57	13♉28	24°D35	19♎15	15♒16	7♈ 9	7°D58	9♌19	12♒15	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s42	20s39	2n12	10s37	0n27	25s43	2s28	13s 9	0s 0	16n15	0s59	4s25	2s47	6s31	0n32	17s25	0s56	12s27	16s53	17n40	17n42	18s 2		n.a.
T 2	14 2	19 47	1 13	11 17	0 21	25 50	2 29	13 24	0 1	16 12	0 59	4 26	2 47	6 32	0 32	17 25	0 56	12 27	16 53	17 40	17 43	18 2		n.a.
W 3	14 22	18 3	0 11	11 57	0 14	25 56	2 30	13 40	0 2	16 10	0 58	4 27	2 47	6 33	0 32	17 25	0 56	12 27	16 53	17 40	17 44	18 1		n.a.
T 4	14 42	15 33	0s51	12 36	0 7	26 1	2 31	13 55	0 2	16 8	0 58	4 28	2 46	6 35	0 32	17 25	0 56	12 27	16 52	17 40	17 45	18 0		n.a.
F 5	15 1	12 24	1 52	13 14	0 0	26 5	2 32	14 10	0 3	16 6	0 58	4 29	2 46	6 36	0 32	17 25	0 56	12 28	16 52	17 41	17 46	17 59		n.a.
S 6	15 21	8 40	2 48	13 52	0s 6	26 9	2 32	14 25	0 3	16 4	0 58	4 30	2 46	6 38	0 32	17 25	0 56	12 28	16 52	17 42	17 47	17 58		n.a.
S 7	15 40	4 31	3 38	14 30	0 13	26 12	2 33	14 40	0 4	16 1	0 58	4 31	2 46	6 39	0 32	17 25	0 56	12 28	16 52	17 43	17 48	17 57		n.a.
M 8	15 58	0 4	4 18	15 6	0 19	26 14	2 33	14 55	0 5	15 59	0 58	4 32	2 45	6 40	0 32	17 24	0 56	12 28	16 52	17 46	17 48	17 56		n.a.
T 9	16 17	4n30	4 46	15 42	0 26	26 15	2 33	15 10	0 5	15 57	0 58	4 32	2 45	6 42	0 32	17 24	0 56	12 28	16 51	17 49	17 49	17 55		n.a.
W10	16 35	8 58	5 0	16 18	0 32	26 16	2 33	15 24	0 6	15 55	0 58	4 33	2 45	6 43	0 32	17 24	0 56	12 28	16 51	17 52	17 50	17 54		n.a.
T 11	16 53	13 6	4 56	16 52	0 38	26 16	2 33	15 39	0 7	15 52	0 58	4 34	2 45	6 44	0 32	17 24	0 56	12 28	16 51	17 56	17 51	17 53		n.a.
F 12	17 11	16 36	4 35	17 26	0 45	26 15	2 33	15 53	0 7	15 50	0 57	4 34	2 44	6 46	0 32	17 24	0 56	12 29	16 51	17 59	17 52	17 52		n.a.
S 13	17 28	19 11	3 58	18 0	0 51	26 13	2 33	16 7	0 8	15 48	0 57	4 35	2 44	6 47	0 32	17 24	0 56	12 29	16 50	18 2	17 53	17 51		n.a.
S 14	17 45	20 37	3 5	18 32	0 56	26 11	2 33	16 21	0 9	15 46	0 57	4 35	2 44	6 48	0 32	17 24	0 56	12 29	16 50	18 4	17 54	17 50		n.a.
M15	18 2	20 44	2 0	19 3	1 2	26 8	2 32	16 35	0 9	15 44	0 57	4 36	2 44	6 49	0 32	17 23	0 56	12 29	16 50	18 5	17 54	17 49		n.a.
T 16	18 18	19 32	0 48	19 34	1 8	26 4	2 32	16 49	0 10	15 41	0 57	4 36	2 43	6 51	0 32	17 23	0 56	12 29	16 50	18 5	17 55	17 48		n.a.
W17	18 34	17 7	0n26	20 4	1 13	26 0	2 31	17 3	0 11	15 39	0 57	4 36	2 43	6 52	0 32	17 23	0 56	12 29	16 49	18 6	17 56	17 47		n.a.
T 18	18 50	13 41	1 39	20 33	1 18	25 55	2 30	17 16	0 11	15 37	0 56	4 37	2 43	6 53	0 32	17 23	0 56	12 29	16 49	18 6	17 57	17 46		n.a.
F 19	19 5	9 31	2 45	21 0	1 24	25 49	2 29	17 30	0 12	15 35	0 56	4 37	2 43	6 54	0 32	17 23	0 56	12 29	16 49	18 6	17 58	17 45		n.a.
S 20	19 20	4 52	3 42	21 27	1 28	25 42	2 28	17 43	0 12	15 32	0 56	4 37	2 42	6 56	0 32	17 22	0 56	12 29	16 48	18 7	17 59	17 44		n.a.
S 21	19 35	0s 0	4 24	21 53	1 33	25 35	2 27	17 56	0 13	15 30	0 56	4 37	2 42	6 57	0 32	17 22	0 56	12 29	16 48	18 8	18 0	17 43		n.a.
M22	19 49	4 49	4 51	22 18	1 38	25 27	2 26	18 9	0 14	15 28	0 56	4 37	2 42	6 58	0 32	17 22	0 56	12 29	16 48	18 11	18 1	17 42		n.a.
T 23	20 3	9 19	5 2	22 41	1 42	25 18	2 24	18 21	0 14	15 26	0 56	4 38	2 42	6 59	0 32	17 22	0 56	12 29	16 48	18 14	18 1	17 41		n.a.
W24	20 16	13 19	4 56	23 3	1 46	25 9	2 23	18 34	0 15	15 24	0 55	4 38	2 41	7 0	0 32	17 21	0 56	12 29	16 47	18 17	18 2	17 40		n.a.
T 25	20 29	16 36	4 34	23 24	1 49	24 59	2 21	18 46	0 16	15 22	0 55	4 38	2 41	7 2	0 32	17 21	0 56	12 29	16 47	18 21	18 3	17 39		n.a.
F 26	20 42	19 2	3 59	23 44	1 53	24 48	2 19	18 59	0 16	15 20	0 55	4 38	2 41	7 3	0 32	17 21	0 56	12 29	16 47	18 23	18 4	17 38		n.a.
S 27	20 54	20 29	3 13	24 3	1 56	24 37	2 17	19 11	0 17	15 18	0 55	4 37	2 40	7 4	0 32	17 20	0 56	12 29	16 46	18 26	18 5	17 37		n.a.
S 28	21 6	20 56	2 19	24 20	1 59	24 25	2 15	19 23	0 18	15 16	0 55	4 37	2 40	7 5	0 32	17 20	0 56	12 29	16 46	18 28	18 6	17 36		n.a.
M29	21 18	20 25	1 19	24 35	2 1	24 13	2 13	19 34	0 18	15 14	0 54	4 37	2 40	7 6	0 32	17 20	0 56	12 29	16 46	18 28	18 7	17 35		n.a.
T 30	21s29	18s59	0n16	24s50	2s 3	23s59	2s10	19s46	0s19	15n12	0s54	4s37	2s40	7s 7	0n32	17s19	0s56	12s29	16s45	18n29	18n 7	17s34		n.a.

Julian Day Number = 1676436.5, Delta T = 03h17m47s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°46'00, Lahiri = - 5°38'59 Julian Calendar 1 Nov. 124 BCE == Greg. Calendar 29 Oct. 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 124 BCE
geocentric

DECEMBER 124 BCE (-123) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 26 36	6♐39'02	16♒43	16♐ 2	23♑19	26♏42	13°R21	24♓35	19♎18	15♒17	7°R 8	7♌58	9♌16	12♒22	n.a.	W 1
T 2	4 30 33	7°40'18	28°30	17°39	24°25	27°27	13♉14	24°35	19°21	15°18	7♈ 8	7°59	9°13	12°28	n.a.	T 2
F 3	4 34 29	8°41'33	10♓23	19°17	25°30	28°12	13° 7	24°35	19°23	15°19	7° 7	8°R 0	9°10	12°35	n.a.	F 3
S 4	4 38 26	9°42'49	22°27	20°54	26°35	28°58	13° 1	24°36	19°26	15°20	7° 7	7°59	9° 7	12°42	n.a.	S 4
S 5	4 42 22	10°44'03	4♈46	22°32	27°39	29°43	12°54	24°36	19°29	15°22	7° 7	7°55	9° 3	12°48	n.a.	S 5
M 6	4 46 19	11°45'18	17°27	24° 9	28°43	0♐28	12°48	24°37	19°32	15°23	7° 6	7°50	9° 0	12°55	n.a.	M 6
T 7	4 50 16	12°46'32	0♉31	25°46	29°47	1°14	12°42	24°38	19°34	15°24	7° 6	7°43	8°57	13° 1	n.a.	T 7
W 8	4 54 12	13°47'45	14° 0	27°22	0♒51	1°59	12°36	24°38	19°37	15°25	7° 5	7°34	8°54	13° 8	n.a.	W 8
T 9	4 58 9	14°48'58	27°54	28°59	1°54	2°45	12°30	24°39	19°39	15°27	7° 5	7°24	8°51	13°15	n.a.	T 9
F 10	5 2 5	15°50'11	12♊ 9	0♑34	2°57	3°30	12°24	24°41	19°42	15°28	7° 5	7°16	8°48	13°21	n.a.	F 10
S 11	5 6 2	16°51'23	26°39	2° 9	3°59	4°16	12°19	24°42	19°44	15°29	7° 4	7° 8	8°44	13°28	n.a.	S 11
S 12	5 9 58	17°52'36	11♋18	3°42	5° 1	5° 1	12°14	24°43	19°47	15°31	7° 4	7° 3	8°41	13°35	n.a.	S 12
M13	5 13 55	18°53'47	25°59	5°14	6° 3	5°47	12° 8	24°44	19°49	15°32	7° 4	7° 1	8°38	13°41	n.a.	M13
T 14	5 17 51	19°54'59	10♌35	6°44	7° 4	6°33	12° 3	24°46	19°51	15°34	7° 4	7°D 0	8°35	13°48	n.a.	T 14
W15	5 21 48	20°56'10	25° 1	8°12	8° 5	7°19	11°58	24°48	19°54	15°35	7° 3	7° 1	8°32	13°55	n.a.	W15
T 16	5 25 45	21°57'21	9♍15	9°38	9° 6	8° 4	11°54	24°49	19°56	15°37	7° 3	7° 2	8°28	14° 1	n.a.	T 16
F 17	5 29 41	22°58'31	23°15	11° 0	10° 6	8°50	11°49	24°51	19°58	15°38	7° 3	7°R 3	8°25	14° 8	n.a.	F 17
S 18	5 33 38	23°59'41	7♎ 0	12°19	11° 5	9°36	11°45	24°53	20° 0	15°40	7° 3	7° 2	8°22	14°15	n.a.	S 18
S 19	5 37 34	25° 0'51	20°32	13°33	12° 4	10°22	11°41	24°55	20° 2	15°41	7° 3	6°59	8°19	14°21	n.a.	S 19
M20	5 41 31	26° 2'01	3♏50	14°42	13° 3	11° 8	11°37	24°58	20° 5	15°43	7° 3	6°55	8°16	14°28	n.a.	M20
T 21	5 45 27	27° 3'09	16°55	15°46	14° 1	11°54	11°33	25° 0	20° 7	15°45	7° 3	6°48	8°13	14°35	n.a.	T 21
W22	5 49 24	28° 4'18	29°47	16°43	14°59	12°40	11°29	25° 2	20° 9	15°46	7° 2	6°41	8° 9	14°41	n.a.	W22
T 23	5 53 20	29° 5'25	12♐27	17°32	15°56	13°26	11°26	25° 5	20°10	15°48	7° 2	6°34	8° 6	14°48	n.a.	T 23
F 24	5 57 17	0♑ 6'32	24°54	18°13	16°52	14°12	11°23	25° 7	20°12	15°50	7°D 2	6°28	8° 3	14°54	n.a.	F 24
S 25	6 1 14	1° 7'38	7♑10	18°45	17°48	14°58	11°20	25°10	20°14	15°51	7° 2	6°23	8° 0	15° 1	n.a.	S 25
S 26	6 5 10	2° 8'43	19°16	19° 7	18°44	15°44	11°17	25°13	20°16	15°53	7° 2	6°19	7°57	15° 8	n.a.	S 26
M27	6 9 7	3° 9'47	1♒12	19°18	19°38	16°30	11°14	25°16	20°18	15°55	7° 2	6°D18	7°54	15°14	n.a.	M27
T 28	6 13 3	4°10'50	13° 2	19°R18	20°32	17°16	11°12	25°19	20°19	15°57	7° 3	6°18	7°50	15°21	n.a.	T 28
W29	6 17 0	5°11'52	24°49	19° 7	21°26	18° 2	11°10	25°22	20°21	15°58	7° 3	6°19	7°47	15°28	n.a.	W29
T 30	6 20 56	6°12'52	6♓36	18°45	22°18	18°49	11° 8	25°25	20°22	16° 0	7° 3	6°21	7°44	15°34	n.a.	T 30
F 31	6 24 53	7♑13'51	18♓28	18♑11	23♒10	19♐35	11♉ 6	25♓29	20♎24	16♒ 2	7♈ 3	6♌23	7♌41	15♒41	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	21s40	16s45	0s47	25s 2	2s 5	23s46	2s 8	19s57	0s20	15n10	0s54	4s37	2s39	7s 8	0n32	17s19	0s56	12s29	16s45	18n29	18n 8	17s33			n.a.
T 2	21 50	13 48	1 48	25 14	2 7	23 31	2 5	20 8	0 20	15 8	0 54	4 36	2 39	7 9	0 32	17 19	0 56	12 29	16 45	18 29	18 9	17 32			n.a.
F 3	22 0	10 18	2 45	25 23	2 7	23 17	2 2	20 19	0 21	15 6	0 53	4 36	2 39	7 10	0 32	17 18	0 56	12 28	16 45	18 28	18 10	17 31			n.a.
S 4	22 9	6 19	3 35	25 31	2 8	23 1	1 59	20 30	0 22	15 4	0 53	4 35	2 38	7 11	0 32	17 18	0 56	12 28	16 44	18 29	18 11	17 30			n.a.
S 5	22 18	2 0	4 17	25 37	2 8	22 45	1 56	20 41	0 22	15 3	0 53	4 35	2 38	7 12	0 32	17 18	0 56	12 28	16 44	18 30	18 12	17 29			n.a.
M 6	22 27	2n30	4 47	25 42	2 7	22 29	1 52	20 51	0 23	15 1	0 53	4 34	2 38	7 13	0 32	17 17	0 56	12 28	16 44	18 31	18 12	17 28			n.a.
T 7	22 35	7 2	5 4	25 45	2 6	22 12	1 49	21 1	0 24	14 59	0 53	4 34	2 38	7 14	0 32	17 17	0 56	12 28	16 43	18 33	18 13	17 27			n.a.
W 8	22 43	11 23	5 4	25 46	2 5	21 54	1 45	21 11	0 24	14 58	0 52	4 33	2 37	7 15	0 32	17 17	0 56	12 28	16 43	18 35	18 14	17 26			n.a.
T 9	22 50	15 15	4 47	25 45	2 2	21 36	1 41	21 21	0 25	14 56	0 52	4 33	2 37	7 16	0 32	17 16	0 56	12 28	16 43	18 38	18 15	17 25			n.a.
F 10	22 57	18 20	4 12	25 42	2 0	21 18	1 37	21 30	0 25	14 55	0 52	4 32	2 37	7 17	0 33	17 16	0 56	12 27	16 42	18 40	18 16	17 24			n.a.
S 11	23 3	20 20	3 20	25 37	1 56	20 59	1 33	21 40	0 26	14 53	0 52	4 31	2 36	7 18	0 33	17 15	0 56	12 27	16 42	18 42	18 17	17 22			n.a.
S 12	23 9	21 0	2 14	25 31	1 52	20 40	1 29	21 49	0 27	14 52	0 51	4 30	2 36	7 19	0 33	17 15	0 56	12 27	16 42	18 43	18 18	17 21			n.a.
M13	23 14	20 13	0 59	25 23	1 47	20 20	1 24	21 58	0 27	14 50	0 51	4 30	2 36	7 20	0 33	17 14	0 55	12 27	16 41	18 44	18 18	17 20			n.a.
T 14	23 19	18 6	0n19	25 13	1 41	20 0	1 20	22 6	0 28	14 49	0 51	4 29	2 36	7 21	0 33	17 14	0 55	12 27	16 41	18 44	18 19	17 19			n.a.
W15	23 24	14 50	1 36	25 1	1 34	19 39	1 15	22 15	0 29	14 48	0 51	4 28	2 35	7 22	0 33	17 14	0 55	12 26	16 40	18 44	18 20	17 18			n.a.
T 16	23 28	10 45	2 46	24 47	1 26	19 18	1 10	22 23	0 29	14 47	0 50	4 27	2 35	7 23	0 33	17 13	0 55	12 26	16 40	18 43	18 21	17 17			n.a.
F 17	23 31	6 8	3 44	24 32	1 18	18 57	1 5	22 31	0 30	14 45	0 50	4 26	2 35	7 23	0 33	17 13	0 55	12 26	16 40	18 43	18 22	17 16			n.a.
S 18	23 34	1 18	4 29	24 15	1 8	18 36	0 59	22 39	0 31	14 44	0 50	4 25	2 35	7 24	0 33	17 12	0 55	12 26	16 39	18 43	18 23	17 15			n.a.
S 19	23 37	3s31	4 57	23 58	0 57	18 14	0 54	22 46	0 31	14 43	0 50	4 24	2 34	7 25	0 33	17 12	0 55	12 25	16 39	18 44	18 23	17 14			n.a.
M20	23 39	8 5	5 10	23 39	0 46	17 51	0 48	22 53	0 32	14 42	0 49	4 23	2 34	7 26	0 33	17 11	0 55	12 25	16 39	18 45	18 24	17 13			n.a.
T 21	23 40	12 12	5 5	23 19	0 33	17 29	0 42	23 0	0 32	14 41	0 49	4 21	2 34	7 27	0 33	17 11	0 55	12 25	16 38	18 47	18 25	17 11			n.a.
W22	23 42	15 41	4 45	22 58	0 19	17 6	0 36	23 7	0 33	14 40	0 49	4 20	2 33	7 27	0 33	17 10	0 55	12 24	16 38	18 49	18 26	17 10			n.a.
T 23	23 42	18 23	4 12	22 37	0 5	16 43	0 30	23 13	0 34	14 40	0 49	4 19	2 33	7 28	0 33	17 10	0 55	12 24	16 38	18 50	18 27	17 9			n.a.
F 24	23 42	20 10	3 27	22 16	0n11	16 20	0 24	23 20	0 34	14 39	0 48	4 18	2 33	7 29	0 33	17 9	0 55	12 24	16 37	18 52	18 28	17 8			n.a.
S 25	23 42	20 59	2 32	21 55	0 28	15 57	0 17	23 26	0 35	14 38	0 48	4 16	2 33	7 29	0 33	17 9	0 55	12 23	16 37	18 53	18 28	17 7			n.a.
S 26	23 41	20 47	1 32	21 35	0 45	15 33	0 11	23 31	0 36	14 38	0 48	4 15	2 32	7 30	0 33	17 8	0 55	12 23	16 37	18 54	18 29	17 6			n.a.
M27	23 40	19 40	0 28	21 16	1 3	15 9	0 4	23 37	0 36	14 37	0 48	4 13	2 32	7 31	0 33	17 7	0 55	12 23	16 36	18 55	18 30	17 5			n.a.
T 28	23 38	17 41	0s37	20 58	1 21	14 45	0n 3	23 42	0 37	14 37	0 47	4 12	2 32	7 31	0 33	17 7	0 55	12 22	16 36	18 55	18 31	17 3			n.a.
W29	23 36	14 58	1 40	20 41	1 40	14 21	0 10	23 47	0 37	14 36	0 47	4 10	2 31	7 32	0 33	17 6	0 55	12 22	16 35	18 54	18 32	17 2			n.a.
T 30	23 34	11 39	2 39	20 26	1 58	13 57	0 18	23 52	0 38	14 36	0 47	4 9	2 31	7 32	0 33	17 6	0 55	12 22	16 35	18 54	18 32	17 1			n.a.
F 31	23s31	7s51	3s31	20s13	2n16	13s33	0n25	23s56	0s39	14n35	0s46	4s 7	2s31	7s33	0n33	17s 5	0s55	12s21	16s35	18n53	18n33	17s 0			n.a.

Julian Day Number = 1676466.5, Delta T = 03h17m46s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'55, Lahiri = - 5°38'55 Julian Calendar 1 Dec. 124 BCE == Greg. Calendar 28 Nov. 124 BCE

The year -123 astronomical counting style corresponds to year 124 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

JANUARY 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 28 50	8♑14'48	0♈30	17°R27	24♒ 1	20♐21	11°R 4	25♓32	20♎25	16♒ 4	7♈ 3	6♌24	7♌38	15♒48	n.a.	S 1
S 2	6 32 46	9°15'45	12°46	16♑34	24°51	21° 7	11♉ 3	25°35	20°27	16° 6	7° 3	6°R24	7°34	15°54	n.a.	S 2
M 3	6 36 43	10°16'39	25°22	15°33	25°41	21°54	11° 2	25°39	20°28	16° 8	7° 3	6°23	7°31	16° 1	n.a.	M 3
T 4	6 40 39	11°17'32	8♉22	14°26	26°29	22°40	11° 1	25°43	20°30	16°10	7° 4	6°21	7°28	16° 8	n.a.	T 4
W 5	6 44 36	12°18'24	21°49	13°15	27°17	23°26	11° 0	25°47	20°31	16°12	7° 4	6°18	7°25	16°14	n.a.	W 5
T 6	6 48 32	13°19'14	5♊42	12° 2	28° 4	24°13	10°59	25°51	20°32	16°14	7° 4	6°15	7°22	16°21	n.a.	T 6
F 7	6 52 29	14°20'02	20° 2	10°50	28°50	24°59	10°59	25°55	20°33	16°16	7° 4	6°11	7°19	16°28	n.a.	F 7
S 8	6 56 25	15°20'49	4♋44	9°39	29°34	25°46	10°D59	25°59	20°34	16°18	7° 5	6° 9	7°15	16°34	n.a.	S 8
S 9	7 0 22	16°21'35	19°41	8°32	0♓18	26°32	10°59	26° 3	20°35	16°20	7° 5	6° 7	7°12	16°41	n.a.	S 9
M10	7 4 19	17°22'19	4♌45	7°31	1° 1	27°19	10°59	26° 7	20°36	16°22	7° 5	6°D 6	7° 9	16°47	n.a.	M10
T 11	7 8 15	18°23'02	19°46	6°35	1°42	28° 5	10°59	26°11	20°37	16°24	7° 6	6° 7	7° 6	16°54	n.a.	T 11
W12	7 12 12	19°23'44	4♍37	5°48	2°22	28°52	11° 0	26°16	20°38	16°26	7° 6	6° 8	7° 3	17° 1	n.a.	W12
T 13	7 16 8	20°24'24	19°11	5° 7	3° 1	29°38	11° 1	26°20	20°39	16°28	7° 7	6° 9	7° 0	17° 7	n.a.	T 13
F 14	7 20 5	21°25'02	3♎26	4°35	3°39	0♑25	11° 2	26°25	20°40	16°30	7° 7	6°10	6°56	17°14	n.a.	F 14
S 15	7 24 1	22°25'40	17°18	4°11	4°15	1°11	11° 3	26°30	20°40	16°32	7° 8	6°R11	6°53	17°21	n.a.	S 15
S 16	7 27 58	23°26'16	0♏48	3°54	4°50	1°58	11° 4	26°35	20°41	16°34	7° 8	6°11	6°50	17°27	n.a.	S 16
M17	7 31 54	24°26'51	13°58	3°46	5°24	2°45	11° 6	26°39	20°42	16°36	7° 9	6°10	6°47	17°34	n.a.	M17
T 18	7 35 51	25°27'25	26°49	3°D44	5°56	3°31	11° 8	26°44	20°42	16°38	7° 9	6° 9	6°44	17°41	n.a.	T 18
W19	7 39 48	26°27'57	9♐25	3°50	6°27	4°18	11°10	26°49	20°43	16°41	7°10	6° 7	6°40	17°47	n.a.	W19
T 20	7 43 44	27°28'28	21°47	4° 2	6°56	5° 5	11°12	26°54	20°43	16°43	7°10	6° 6	6°37	17°54	n.a.	T 20
F 21	7 47 41	28°28'57	3♑58	4°20	7°23	5°51	11°15	27° 0	20°44	16°45	7°11	6° 5	6°34	18° 1	n.a.	F 21
S 22	7 51 37	29°29'25	16° 0	4°43	7°49	6°38	11°17	27° 5	20°44	16°47	7°11	6° 4	6°31	18° 7	n.a.	S 22
S 23	7 55 34	0♒29'51	27°56	5°12	8°12	7°25	11°20	27°10	20°44	16°49	7°12	6° 4	6°28	18°14	n.a.	S 23
M24	7 59 30	1°30'15	9♒46	5°46	8°34	8°12	11°23	27°16	20°44	16°52	7°13	6°D 4	6°25	18°21	n.a.	M24
T 25	8 3 27	2°30'37	21°34	6°24	8°54	8°58	11°26	27°21	20°45	16°54	7°13	6° 4	6°21	18°27	n.a.	T 25
W26	8 7 23	3°30'57	3♓21	7° 6	9°12	9°45	11°29	27°27	20°45	16°56	7°14	6° 4	6°18	18°34	n.a.	W26
T 27	8 11 20	4°31'15	15°10	7°52	9°28	10°32	11°33	27°32	20°45	16°58	7°15	6° 4	6°15	18°40	n.a.	T 27
F 28	8 15 17	5°31'31	27° 5	8°42	9°42	11°19	11°37	27°38	20°R45	17° 0	7°15	6° 5	6°12	18°47	n.a.	F 28
S 29	8 19 13	6°31'45	9♈ 9	9°35	9°54	12° 5	11°41	27°44	20°45	17° 3	7°16	6°R 5	6° 9	18°54	n.a.	S 29
S 30	8 23 10	7°31'57	21°25	10°31	10° 4	12°52	11°45	27°50	20°45	17° 5	7°17	6° 4	6° 5	19° 0	n.a.	S 30
M31	8 27 6	8♒32'07	3♉57	11♑30	10♓11	13♑39	11♉49	27♓56	20♎45	17♒ 7	7♈18	6°D 4	6♌ 2	19♒ 7	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s27	3s42	4s15	20s 2	2n33	13s 9	0n33	24s 0	0s39	14n35	0s46	4s 6	2s31	7s33	0n33	17s 5	0s55	12s21	16s34	18n53	18n34	16s59		n.a.
S 2	23 23	0n40	4 49	19 53	2 49	12 44	0 41	24 4	0 40	14 35	0 46	4 4	2 30	7 34	0 33	17 4	0 55	12 21	16 34	18 53	18 35	16 58		n.a.
M 3	23 18	5 8	5 9	19 46	3 3	12 20	0 49	24 8	0 40	14 35	0 46	4 2	2 30	7 34	0 33	17 3	0 55	12 20	16 34	18 53	18 36	16 56		n.a.
T 4	23 13	9 29	5 15	19 41	3 16	11 56	0 57	24 11	0 41	14 35	0 45	4 1	2 30	7 35	0 33	17 3	0 55	12 20	16 33	18 54	18 37	16 55		n.a.
W 5	23 8	13 32	5 4	19 38	3 26	11 31	1 6	24 14	0 42	14 35	0 45	3 59	2 30	7 35	0 33	17 2	0 55	12 19	16 33	18 54	18 37	16 54		n.a.
T 6	23 2	17 0	4 35	19 36	3 34	11 7	1 14	24 17	0 42	14 35	0 45	3 57	2 29	7 36	0 33	17 2	0 55	12 19	16 33	18 55	18 38	16 53		n.a.
F 7	22 56	19 33	3 48	19 37	3 39	10 43	1 23	24 20	0 43	14 35	0 45	3 55	2 29	7 36	0 33	17 1	0 55	12 18	16 32	18 56	18 39	16 52		n.a.
S 8	22 49	20 53	2 45	19 39	3 43	10 19	1 32	24 22	0 43	14 35	0 44	3 53	2 29	7 37	0 33	17 0	0 55	12 18	16 32	18 57	18 40	16 51		n.a.
S 9	22 42	20 46	1 30	19 43	3 43	9 55	1 42	24 24	0 44	14 35	0 44	3 51	2 29	7 37	0 33	17 0	0 55	12 17	16 31	18 57	18 41	16 49		n.a.
M10	22 34	19 10	0 8	19 48	3 42	9 31	1 51	24 25	0 45	14 36	0 44	3 50	2 28	7 37	0 33	16 59	0 55	12 17	16 31	18 57	18 42	16 48		n.a.
T 11	22 26	16 14	1n15	19 54	3 39	9 7	2 1	24 27	0 45	14 36	0 44	3 48	2 28	7 38	0 33	16 59	0 55	12 17	16 31	18 57	18 42	16 47		n.a.
W12	22 17	12 16	2 31	20 2	3 33	8 43	2 10	24 28	0 46	14 37	0 43	3 46	2 28	7 38	0 33	16 58	0 55	12 16	16 30	18 57	18 43	16 46		n.a.
T 13	22 8	7 38	3 37	20 10	3 27	8 20	2 20	24 29	0 46	14 37	0 43	3 44	2 28	7 38	0 33	16 57	0 55	12 16	16 30	18 57	18 44	16 44		n.a.
F 14	21 59	2 42	4 27	20 19	3 19	7 57	2 30	24 29	0 47	14 38	0 43	3 41	2 28	7 39	0 33	16 57	0 55	12 15	16 30	18 56	18 45	16 43		n.a.
S 15	21 49	2s15	5 0	20 29	3 10	7 34	2 40	24 30	0 48	14 38	0 43	3 39	2 27	7 39	0 33	16 56	0 55	12 15	16 29	18 56	18 46	16 42		n.a.
S 16	21 39	6 57	5 16	20 39	3 0	7 12	2 51	24 30	0 48	14 39	0 42	3 37	2 27	7 39	0 33	16 55	0 55	12 14	16 29	18 56	18 46	16 41		n.a.
M17	21 28	11 12	5 14	20 50	2 49	6 49	3 1	24 29	0 49	14 40	0 42	3 35	2 27	7 39	0 33	16 55	0 55	12 14	16 29	18 57	18 47	16 40		n.a.
T 18	21 17	14 51	4 57	21 1	2 38	6 28	3 12	24 29	0 49	14 41	0 42	3 33	2 27	7 40	0 33	16 54	0 55	12 13	16 28	18 57	18 48	16 38		n.a.
W19	21 6	17 44	4 25	21 13	2 27	6 6	3 23	24 28	0 50	14 41	0 42	3 31	2 26	7 40	0 33	16 53	0 55	12 13	16 28	18 57	18 49	16 37		n.a.
T 20	20 54	19 45	3 42	21 24	2 15	5 45	3 34	24 27	0 50	14 42	0 41	3 28	2 26	7 40	0 33	16 53	0 55	12 12	16 28	18 57	18 50	16 36		n.a.
F 21	20 42	20 50	2 49	21 35	2 3	5 25	3 45	24 25	0 51	14 43	0 41	3 26	2 26	7 40	0 33	16 52	0 55	12 11	16 27	18 58	18 50	16 35		n.a.
S 22	20 29	20 56	1 49	21 46	1 51	5 5	3 57	24 24	0 51	14 44	0 41	3 24	2 26	7 40	0 33	16 51	0 55	12 11	16 27	18 58	18 51	16 33		n.a.
S 23	20 16	20 4	0 45	21 57	1 39	4 45	4 8	24 22	0 52	14 45	0 41	3 21	2 26	7 40	0 33	16 51	0 55	12 10	16 27	18 58	18 52	16 32		n.a.
M24	20 3	18 20	0s21	22 8	1 27	4 26	4 20	24 20	0 53	14 47	0 40	3 19	2 25	7 40	0 34	16 50	0 55	12 10	16 26	18 58	18 53	16 31		n.a.
T 25	19 49	15 49	1 25	22 17	1 16	4 8	4 31	24 17	0 53	14 48	0 40	3 17	2 25	7 40	0 34	16 49	0 55	12 9	16 26	18 58	18 54	16 30		n.a.
W26	19 35	12 39	2 26	22 27	1 4	3 51	4 43	24 14	0 54	14 49	0 40	3 14	2 25	7 40	0 34	16 49	0 55	12 9	16 26	18 58	18 54	16 28		n.a.
T 27	19 21	8 59	3 21	22 35	0 53	3 34	4 55	24 11	0 54	14 51	0 40	3 12	2 25	7 40	0 34	16 48	0 55	12 8	16 25	18 58	18 55	16 27		n.a.
F 28	19 6	4 57	4 8	22 43	0 42	3 17	5 6	24 8	0 55	14 52	0 39	3 9	2 25	7 40	0 34	16 47	0 55	12 8	16 25	18 58	18 56	16 26		n.a.
S 29	18 51	0 41	4 44	22 50	0 31	3 2	5 18	24 4	0 55	14 53	0 39	3 7	2 24	7 40	0 34	16 47	0 55	12 7	16 25	18 58	18 57	16 25		n.a.
S 30	18 36	3n41	5 8	22 57	0 21	2 48	5 30	24 0	0 56	14 55	0 39	3 4	2 24	7 40	0 34	16 46	0 55	12 6	16 24	18 58	18 58	16 23		n.a.
M31	18s20	8n 0	5s18	23s 2	0n10	2s34	5n42	23s56	0s56	14n56	0s39	3s 2	2s24	7s40	0n34	16s45	0s55	12s 6	16s24	18n58	18n58	16s22		n.a.

Julian Day Number = 1676497.5, Delta T = 03h17m46s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'51, Lahiri = - 5°38'51 Julian Calendar 1 Jan. 123 BCE == Greg. Calendar 29 Dec. 124 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

FEBRUARY 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 31 3	9♒32'15	16♉51	12♑31	10♓16	14♑26	11♉54	28♓ 2	20°R44	17♒ 9	7♈18	6♌ 4	5♌59	19♒14	n.a.	T 1
W 2	8 34 59	10°32'20	0♊ 8	13°35	10°R18	15°13	11°58	28° 8	20♎44	17°12	7°19	6° 5	5°56	19°20	n.a.	W 2
T 3	8 38 56	11°32'23	13°52	14°42	10°18	15°59	12° 3	28°14	20°44	17°14	7°20	6° 5	5°53	19°27	n.a.	T 3
F 4	8 42 52	12°32'24	28° 3	15°50	10°15	16°46	12° 8	28°20	20°43	17°16	7°21	6° 6	5°50	19°34	n.a.	F 4
S 5	8 46 49	13°32'23	12♋39	17° 1	10°10	17°33	12°13	28°26	20°43	17°19	7°22	6° 6	5°46	19°40	n.a.	S 5
S 6	8 50 46	14°32'19	27°36	18°13	10° 3	18°20	12°18	28°32	20°42	17°21	7°23	6° 7	5°43	19°47	n.a.	S 6
M 7	8 54 42	15°32'14	12♌46	19°28	9°53	19° 7	12°24	28°39	20°42	17°23	7°24	6°R 7	5°40	19°54	n.a.	M 7
T 8	8 58 39	16°32'06	28° 0	20°44	9°40	19°54	12°30	28°45	20°41	17°25	7°25	6° 6	5°37	20° 0	n.a.	T 8
W 9	9 2 35	17°31'56	13♍ 9	22° 1	9°25	20°41	12°35	28°51	20°41	17°28	7°25	6° 5	5°34	20° 7	n.a.	W 9
T 10	9 6 32	18°31'45	28° 3	23°21	9° 7	21°27	12°41	28°58	20°40	17°30	7°26	6° 4	5°31	20°14	n.a.	T 10
F 11	9 10 28	19°31'31	12♎35	24°42	8°47	22°14	12°48	29° 5	20°39	17°32	7°27	6° 2	5°27	20°20	n.a.	F 11
S 12	9 14 25	20°31'16	26°42	26° 5	8°25	23° 1	12°54	29°11	20°38	17°34	7°28	6° 1	5°24	20°27	n.a.	S 12
S 13	9 18 21	21°30'58	10♏20	27°29	8° 0	23°48	13° 0	29°18	20°38	17°37	7°29	6° 0	5°21	20°34	n.a.	S 13
M14	9 22 18	22°30'39	23°33	28°54	7°34	24°35	13° 7	29°24	20°37	17°39	7°30	5°D59	5°18	20°40	n.a.	M14
T 15	9 26 14	23°30'19	6♐22	0♒21	7° 5	25°22	13°14	29°31	20°36	17°41	7°31	6° 0	5°15	20°47	n.a.	T 15
W16	9 30 11	24°29'56	18°50	1°49	6°34	26° 9	13°21	29°38	20°35	17°43	7°32	6° 1	5°11	20°53	n.a.	W16
T 17	9 34 8	25°29'32	1♑ 3	3°19	6° 2	26°55	13°28	29°45	20°34	17°46	7°33	6° 2	5° 8	21° 0	n.a.	T 17
F 18	9 38 4	26°29'05	13° 5	4°50	5°29	27°42	13°35	29°52	20°33	17°48	7°35	6° 4	5° 5	21° 7	n.a.	F 18
S 19	9 42 1	27°28'37	24°58	6°23	4°54	28°29	13°42	29°59	20°32	17°50	7°36	6° 5	5° 2	21°13	n.a.	S 19
S 20	9 45 57	28°28'07	6♒46	7°56	4°18	29°16	13°50	0♈ 6	20°30	17°53	7°37	6°R 6	4°59	21°20	n.a.	S 20
M21	9 49 54	29°27'35	18°33	9°31	3°41	0♒ 3	13°57	0°13	20°29	17°55	7°38	6° 5	4°56	21°27	n.a.	M21
T 22	9 53 50	0♓27'00	0♓21	11° 8	3° 3	0°50	14° 5	0°20	20°28	17°57	7°39	6° 3	4°52	21°33	n.a.	T 22
W23	9 57 47	1°26'23	12°11	12°45	2°25	1°36	14°13	0°27	20°27	17°59	7°40	6° 0	4°49	21°40	n.a.	W23
T 24	10 1 43	2°25'45	24° 7	14°24	1°47	2°23	14°21	0°34	20°25	18° 1	7°41	5°56	4°46	21°47	n.a.	T 24
F 25	10 5 40	3°25'03	6♈ 9	16° 5	1° 9	3°10	14°29	0°41	20°24	18° 4	7°42	5°51	4°43	21°53	n.a.	F 25
S 26	10 9 37	4°24'20	18°20	17°46	0°32	3°57	14°38	0°48	20°22	18° 6	7°44	5°46	4°40	22° 0	n.a.	S 26
S 27	10 13 33	5°23'34	0♉42	19°29	29♒55	4°44	14°46	0°56	20°21	18° 8	7°45	5°42	4°37	22° 7	n.a.	S 27
M28	10 17 30	6♓22'46	13♉18	21♒14	29♒19	5♒30	14♉55	1♈ 3	20♎19	18♒10	7♈46	5♌38	4♌33	22♒13	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 4	12n 4	5s13	23s 6	0n 0	2s21	5n54	23s51	0s57	14n58	0s38	2s59	2s24	7s40	0n34	16s45	0s55	12s 5	16s24	18n58	18n59	16s21		n.a.
W 2	17 48	15 40	4 51	23 10	0s 9	2 9	6 5	23 47	0 57	15 0	0 38	2 57	2 24	7 40	0 34	16 44	0 55	12 5	16 24	18 58	19 0	16 19		n.a.
T 3	17 31	18 33	4 12	23 12	0 19	1 59	6 17	23 42	0 58	15 1	0 38	2 54	2 23	7 40	0 34	16 43	0 55	12 4	16 23	18 58	19 1	16 18		n.a.
F 4	17 14	20 25	3 16	23 13	0 28	1 49	6 29	23 36	0 58	15 3	0 38	2 51	2 23	7 40	0 34	16 42	0 55	12 3	16 23	18 58	19 2	16 17		n.a.
S 5	16 57	21 0	2 7	23 13	0 37	1 40	6 40	23 31	0 59	15 5	0 37	2 49	2 23	7 39	0 34	16 42	0 55	12 3	16 23	18 57	19 2	16 15		n.a.
S 6	16 39	20 6	0 47	23 12	0 45	1 33	6 51	23 25	0 59	15 7	0 37	2 46	2 23	7 39	0 34	16 41	0 55	12 2	16 22	18 57	19 3	16 14		n.a.
M 7	16 21	17 45	0n37	23 9	0 53	1 27	7 2	23 19	1 0	15 9	0 37	2 43	2 23	7 39	0 34	16 40	0 55	12 2	16 22	18 57	19 4	16 13		n.a.
T 8	16 3	14 9	1 59	23 5	1 1	1 22	7 12	23 12	1 0	15 11	0 37	2 41	2 23	7 39	0 34	16 40	0 55	12 1	16 22	18 57	19 5	16 11		n.a.
W 9	15 45	9 38	3 12	23 0	1 8	1 18	7 22	23 6	1 1	15 13	0 36	2 38	2 22	7 38	0 34	16 39	0 55	12 0	16 22	18 58	19 6	16 10		n.a.
T 10	15 27	4 36	4 10	22 54	1 15	1 16	7 32	22 59	1 1	15 15	0 36	2 35	2 22	7 38	0 34	16 38	0 55	12 0	16 21	18 58	19 6	16 9		n.a.
F 11	15 8	0s34	4 51	22 46	1 22	1 15	7 41	22 52	1 1	15 17	0 36	2 32	2 22	7 38	0 34	16 38	0 55	11 59	16 21	18 58	19 7	16 8		n.a.
S 12	14 49	5 33	5 13	22 36	1 28	1 15	7 50	22 44	1 2	15 19	0 36	2 30	2 22	7 38	0 34	16 37	0 55	11 59	16 21	18 59	19 8	16 6		n.a.
S 13	14 29	10 5	5 16	22 26	1 34	1 17	7 58	22 37	1 2	15 21	0 36	2 27	2 22	7 37	0 34	16 36	0 55	11 58	16 20	18 59	19 9	16 5		n.a.
M14	14 10	13 59	5 2	22 14	1 39	1 20	8 5	22 29	1 3	15 23	0 35	2 24	2 22	7 37	0 34	16 36	0 55	11 57	16 20	18 59	19 9	16 3		n.a.
T 15	13 50	17 7	4 34	22 0	1 44	1 24	8 12	22 20	1 3	15 26	0 35	2 21	2 21	7 36	0 34	16 35	0 55	11 57	16 20	18 59	19 10	16 2		n.a.
W16	13 30	19 22	3 53	21 45	1 49	1 30	8 18	22 12	1 4	15 28	0 35	2 18	2 21	7 36	0 34	16 34	0 55	11 56	16 20	18 59	19 11	16 1		n.a.
T 17	13 10	20 40	3 2	21 28	1 53	1 37	8 23	22 3	1 4	15 30	0 35	2 15	2 21	7 36	0 34	16 33	0 55	11 55	16 19	18 58	19 12	15 59		n.a.
F 18	12 50	21 0	2 4	21 10	1 57	1 45	8 27	21 54	1 5	15 33	0 34	2 12	2 21	7 35	0 34	16 33	0 55	11 55	16 19	18 58	19 13	15 58		n.a.
S 19	12 29	20 23	1 1	20 50	2 1	1 54	8 31	21 45	1 5	15 35	0 34	2 10	2 21	7 35	0 34	16 32	0 55	11 54	16 19	18 58	19 13	15 57		n.a.
S 20	12 8	18 51	0s 4	20 29	2 4	2 5	8 33	21 36	1 5	15 38	0 34	2 7	2 21	7 34	0 34	16 31	0 55	11 53	16 19	18 58	19 14	15 55		n.a.
M21	11 47	16 31	1 8	20 6	2 6	2 16	8 35	21 26	1 6	15 40	0 34	2 4	2 21	7 34	0 34	16 31	0 55	11 53	16 19	18 58	19 15	15 54		n.a.
T 22	11 26	13 30	2 10	19 41	2 9	2 29	8 36	21 16	1 6	15 43	0 34	2 1	2 21	7 33	0 34	16 30	0 55	11 52	16 18	18 58	19 16	15 53		n.a.
W23	11 5	9 55	3 6	19 15	2 10	2 43	8 35	21 6	1 7	15 45	0 33	1 58	2 20	7 33	0 34	16 29	0 55	11 52	16 18	18 59	19 16	15 51		n.a.
T 24	10 44	5 56	3 54	18 47	2 12	2 57	8 34	20 56	1 7	15 48	0 33	1 55	2 20	7 32	0 34	16 29	0 55	11 51	16 18	19 0	19 17	15 50		n.a.
F 25	10 22	1 42	4 32	18 18	2 13	3 12	8 32	20 45	1 7	15 50	0 33	1 52	2 20	7 32	0 34	16 28	0 55	11 50	16 18	19 1	19 18	15 48		n.a.
S 26	10 0	2n40	4 59	17 47	2 13	3 28	8 29	20 35	1 8	15 53	0 33	1 49	2 20	7 31	0 34	16 27	0 55	11 50	16 17	19 2	19 19	15 47		n.a.
S 27	9 38	6 59	5 12	17 14	2 13	3 45	8 25	20 24	1 8	15 56	0 33	1 46	2 20	7 31	0 34	16 27	0 56	11 49	16 17	19 4	19 20	15 46		n.a.
M28	9s16	11n 4	5s10	16s40	2s12	4s 2	8n20	20s13	1s 8	15n59	0s32	1s43	2s20	7s30	0n34	16s26	0s56	11s48	16s17	19n 4	19n20	15s44		n.a.

Julian Day Number = 1676528.5, Delta T = 03h17m45s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'47, Lahiri = - 5°38'47 Julian Calendar 1 Feb. 123 BCE == Greg. Calendar 29 Jan. 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

MARCH 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 21 26	7♓21'56	26♉10	23♒ 0	28°R44	6♒17	15♉ 3	1♈10	20°R18	18♒12	7♈47	5°R36	4♌30	22♒20	n.a.	T 1
W 2	10 25 23	8°21'03	9♊22	24°47	28♒11	7° 4	15°12	1°18	20♎16	18°15	7°48	5°D36	4°27	22°27	n.a.	W 2
T 3	10 29 19	9°20'08	22°56	26°35	27°39	7°51	15°21	1°25	20°14	18°17	7°50	5♌36	4°24	22°33	n.a.	T 3
F 4	10 33 16	10°19'10	6♋53	28°25	27° 8	8°37	15°30	1°32	20°13	18°19	7°51	5°38	4°21	22°40	n.a.	F 4
S 5	10 37 12	11°18'10	21°13	0♓16	26°40	9°24	15°39	1°40	20°11	18°21	7°52	5°39	4°17	22°47	n.a.	S 5
S 6	10 41 9	12°17'08	5♌56	2° 9	26°13	10°11	15°49	1°47	20° 9	18°23	7°53	5°R40	4°14	22°53	n.a.	S 6
M 7	10 45 5	13°16'03	20°55	4° 3	25°49	10°57	15°58	1°55	20° 7	18°25	7°55	5°39	4°11	23° 0	n.a.	M 7
T 8	10 49 2	14°14'56	6♍ 5	5°59	25°27	11°44	16° 7	2° 2	20° 6	18°27	7°56	5°36	4° 8	23° 7	n.a.	T 8
W 9	10 52 59	15°13'47	21°14	7°56	25° 7	12°30	16°17	2°10	20° 4	18°29	7°57	5°32	4° 5	23°13	n.a.	W 9
T 10	10 56 55	16°12'36	6♎14	9°54	24°50	13°17	16°27	2°17	20° 2	18°32	7°58	5°26	4° 2	23°20	n.a.	T 10
F 11	11 0 52	17°11'22	20°56	11°54	24°35	14° 4	16°37	2°25	20° 0	18°34	8° 0	5°20	3°58	23°26	n.a.	F 11
S 12	11 4 48	18°10'07	5♏13	13°54	24°22	14°50	16°47	2°32	19°58	18°36	8° 1	5°14	3°55	23°33	n.a.	S 12
S 13	11 8 45	19° 8'50	19° 2	15°57	24°12	15°37	16°57	2°40	19°56	18°38	8° 2	5° 9	3°52	23°40	n.a.	S 13
M14	11 12 41	20° 7'32	2♐21	18° 0	24° 4	16°23	17° 7	2°48	19°54	18°40	8° 4	5° 5	3°49	23°46	n.a.	M14
T 15	11 16 38	21° 6'11	15°14	20° 4	23°59	17°10	17°17	2°55	19°52	18°42	8° 5	5° 3	3°46	23°53	n.a.	T 15
W16	11 20 34	22° 4'49	27°43	22° 9	23°56	17°56	17°27	3° 3	19°50	18°44	8° 6	5°D 3	3°42	24° 0	n.a.	W16
T 17	11 24 31	23° 3'25	9♑55	24°15	23°D56	18°43	17°38	3°11	19°47	18°46	8° 8	5° 4	3°39	24° 6	n.a.	T 17
F 18	11 28 28	24° 1'59	21°53	26°22	23°58	19°29	17°48	3°18	19°45	18°48	8° 9	5° 6	3°36	24°13	n.a.	F 18
S 19	11 32 24	25° 0'32	3♒43	28°29	24° 2	20°16	17°59	3°26	19°43	18°49	8°10	5°R 6	3°33	24°20	n.a.	S 19
S 20	11 36 21	25°59'02	15°29	0♈36	24° 9	21° 2	18°10	3°34	19°41	18°51	8°12	5° 6	3°30	24°26	n.a.	S 20
M21	11 40 17	26°57'31	27°16	2°43	24°18	21°48	18°21	3°41	19°39	18°53	8°13	5° 3	3°27	24°33	n.a.	M21
T 22	11 44 14	27°55'58	9♓ 6	4°50	24°29	22°35	18°32	3°49	19°36	18°55	8°14	4°58	3°23	24°40	n.a.	T 22
W23	11 48 10	28°54'23	21° 3	6°56	24°42	23°21	18°43	3°57	19°34	18°57	8°16	4°51	3°20	24°46	n.a.	W23
T 24	11 52 7	29°52'46	3♈ 8	9° 0	24°57	24° 7	18°54	4° 5	19°32	18°59	8°17	4°42	3°17	24°53	n.a.	T 24
F 25	11 56 3	0♈51'07	15°22	11° 4	25°14	24°53	19° 5	4°12	19°29	19° 1	8°18	4°31	3°14	25° 0	n.a.	F 25
S 26	12 0 0	1°49'27	27°47	13° 6	25°33	25°40	19°16	4°20	19°27	19° 2	8°20	4°21	3°11	25° 6	n.a.	S 26
S 27	12 3 56	2°47'44	10♉22	15° 6	25°54	26°26	19°27	4°28	19°25	19° 4	8°21	4°11	3° 8	25°13	n.a.	S 27
M28	12 7 53	3°45'59	23°10	17° 3	26°17	27°12	19°39	4°36	19°22	19° 6	8°22	4° 3	3° 4	25°20	n.a.	M28
T 29	12 11 50	4°44'12	6♊10	18°59	26°41	27°58	19°50	4°43	19°20	19° 8	8°24	3°57	3° 1	25°26	n.a.	T 29
W30	12 15 46	5°42'23	19°25	20°51	27° 7	28°44	20° 2	4°51	19°17	19° 9	8°25	3°54	2°58	25°33	n.a.	W30
T 31	12 19 43	6♈40'33	2♋56	22♈40	27♒34	29♒30	20♉14	4♈59	19♎15	19♒11	8♈27	3°D53	2♌55	25♒40	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	8s54	14n46	4s53	16s 4	2s11	4s19	8n14	20s 1	1s 9	16n 1	0s32	1s40	2s20	7s29	0n34	16s25	0s56	11s48	16s17	19n 5	19n21	15s43			n.a.
W 2	8 32	17 49	4 21	15 27	2 10	4 37	8 8	19 50	1 9	16 4	0 32	1 37	2 20	7 29	0 34	16 25	0 56	11 47	16 17	19 5	19 22	15 41			n.a.
T 3	8 9	19 59	3 33	14 47	2 8	4 54	8 0	19 38	1 9	16 7	0 32	1 34	2 20	7 28	0 34	16 24	0 56	11 46	16 17	19 5	19 23	15 40			n.a.
F 4	7 47	21 1	2 31	14 7	2 5	5 12	7 52	19 26	1 10	16 10	0 32	1 31	2 20	7 27	0 34	16 23	0 56	11 46	16 16	19 5	19 23	15 39			n.a.
S 5	7 24	20 44	1 18	13 24	2 2	5 30	7 44	19 14	1 10	16 13	0 31	1 28	2 19	7 27	0 34	16 23	0 56	11 45	16 16	19 4	19 24	15 37			n.a.
S 6	7 2	19 1	0n 1	12 40	1 58	5 47	7 34	19 1	1 10	16 16	0 31	1 25	2 19	7 26	0 34	16 22	0 56	11 45	16 16	19 4	19 25	15 36			n.a.
M 7	6 39	15 59	1 22	11 54	1 54	6 5	7 25	18 49	1 11	16 18	0 31	1 21	2 19	7 25	0 34	16 21	0 56	11 44	16 16	19 4	19 26	15 34			n.a.
T 8	6 16	11 50	2 38	11 7	1 50	6 22	7 14	18 36	1 11	16 21	0 31	1 18	2 19	7 25	0 34	16 21	0 56	11 43	16 16	19 5	19 26	15 33			n.a.
W 9	5 53	6 55	3 43	10 18	1 44	6 39	7 3	18 23	1 11	16 24	0 31	1 15	2 19	7 24	0 34	16 20	0 56	11 43	16 16	19 6	19 27	15 32			n.a.
T 10	5 30	1 38	4 31	9 28	1 39	6 55	6 52	18 10	1 12	16 27	0 30	1 12	2 19	7 23	0 34	16 20	0 56	11 42	16 15	19 7	19 28	15 30			n.a.
F 11	5 7	3s38	5 0	8 36	1 32	7 11	6 41	17 56	1 12	16 30	0 30	1 9	2 19	7 22	0 34	16 19	0 56	11 41	16 15	19 9	19 29	15 29			n.a.
S 12	4 44	8 32	5 10	7 43	1 26	7 26	6 29	17 43	1 12	16 33	0 30	1 6	2 19	7 22	0 34	16 18	0 56	11 41	16 15	19 11	19 29	15 27			n.a.
S 13	4 21	12 51	5 1	6 48	1 18	7 40	6 17	17 29	1 12	16 36	0 30	1 3	2 19	7 21	0 34	16 18	0 56	11 40	16 15	19 12	19 30	15 26			n.a.
M14	3 57	16 22	4 36	5 52	1 10	7 54	6 5	17 15	1 13	16 40	0 30	1 0	2 19	7 20	0 34	16 17	0 56	11 39	16 15	19 13	19 31	15 24			n.a.
T 15	3 34	18 57	3 57	4 55	1 2	8 8	5 53	17 1	1 13	16 43	0 30	0 57	2 19	7 19	0 34	16 17	0 56	11 39	16 15	19 13	19 32	15 23			n.a.
W16	3 11	20 33	3 8	3 57	0 53	8 20	5 40	16 47	1 13	16 46	0 29	0 54	2 19	7 18	0 34	16 16	0 56	11 38	16 15	19 13	19 32	15 21			n.a.
T 17	2 47	21 8	2 12	2 58	0 44	8 32	5 28	16 33	1 13	16 49	0 29	0 50	2 19	7 18	0 34	16 15	0 56	11 38	16 15	19 13	19 33	15 20			n.a.
F 18	2 24	20 44	1 11	1 59	0 34	8 43	5 16	16 18	1 14	16 52	0 29	0 47	2 19	7 17	0 34	16 15	0 56	11 37	16 14	19 12	19 34	15 18			n.a.
S 19	2 0	19 25	0 8	0 59	0 24	8 53	5 3	16 4	1 14	16 55	0 29	0 44	2 19	7 16	0 34	16 14	0 56	11 36	16 14	19 12	19 35	15 17			n.a.
S 20	1 37	17 16	0s56	0n 2	0 14	9 3	4 51	15 49	1 14	16 58	0 29	0 41	2 19	7 15	0 34	16 14	0 56	11 36	16 14	19 12	19 35	15 16			n.a.
M21	1 13	14 23	1 57	1 3	0 3	9 12	4 38	15 34	1 14	17 2	0 29	0 38	2 19	7 14	0 34	16 13	0 56	11 35	16 14	19 13	19 36	15 14			n.a.
T 22	0 50	10 54	2 52	2 4	0n 8	9 20	4 26	15 19	1 14	17 5	0 28	0 35	2 19	7 13	0 34	16 12	0 56	11 35	16 14	19 14	19 37	15 13			n.a.
W23	0 26	6 58	3 41	3 4	0 19	9 27	4 14	15 4	1 15	17 8	0 28	0 32	2 19	7 12	0 34	16 12	0 56	11 34	16 14	19 16	19 38	15 11			n.a.
T 24	0 3	2 43	4 20	4 4	0 30	9 33	4 2	14 48	1 15	17 11	0 28	0 29	2 19	7 12	0 34	16 11	0 56	11 33	16 14	19 18	19 38	15 10			n.a.
F 25	0n21	1n41	4 48	5 3	0 41	9 39	3 50	14 33	1 15	17 14	0 28	0 25	2 18	7 11	0 34	16 11	0 56	11 33	16 14	19 21	19 39	15 8			n.a.
S 26	0 44	6 5	5 3	6 2	0 52	9 43	3 38	14 17	1 15	17 18	0 28	0 22	2 18	7 10	0 34	16 10	0 56	11 32	16 14	19 23	19 40	15 7			n.a.
S 27	1 7	10 18	5 3	6 59	1 3	9 47	3 27	14 1	1 15	17 21	0 28	0 19	2 18	7 9	0 34	16 10	0 56	11 32	16 14	19 26	19 41	15 5			n.a.
M28	1 31	14 7	4 48	7 54	1 14	9 50	3 15	13 46	1 15	17 24	0 27	0 16	2 18	7 8	0 34	16 9	0 56	11 31	16 14	19 28	19 41	15 4			n.a.
T 29	1 54	17 20	4 18	8 48	1 24	9 53	3 4	13 30	1 16	17 28	0 27	0 13	2 18	7 7	0 34	16 9	0 56	11 30	16 14	19 29	19 42	15 2			n.a.
W30	2 17	19 43	3 34	9 40	1 34	9 54	2 53	13 14	1 16	17 31	0 27	0 10	2 18	7 6	0 34	16 8	0 56	11 30	16 14	19 30	19 43	15 1			n.a.
T 31	2n41	21n 3	2s37	10n30	1n43	9s55	2n42	12s57	1s16	17n34	0s27	0s 7	2s18	7s 5	0n34	16s 8	0s56	11s29	16s14	19n30	19n44	14s59			n.a.

Julian Day Number = 1676556.5, Delta T = 03h17m44s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'43, Lahiri = - 5°38'43 Julian Calendar 1 March 123 BCE == Greg. Calendar 26 Feb. 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

APRIL 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 23 39	7♈38'39	16♋45	24♈26	28♒ 3	0♓16	20♉25	5♈ 7	19°R13	19♒13	8♈28	3♌53	2♌52	25♒46	n.a.	F 1
S 2	12 27 36	8°36'44	0♌51	26° 9	28°34	1° 2	20°37	5°15	19♎10	19°14	8°29	3°R53	2°48	25°53	n.a.	S 2
S 3	12 31 32	9°34'47	15°15	27°48	29° 6	1°48	20°49	5°22	19° 8	19°16	8°31	3°53	2°45	26° 0	n.a.	S 3
M 4	12 35 29	10°32'48	29°55	29°24	29°39	2°34	21° 1	5°30	19° 5	19°18	8°32	3°50	2°42	26° 6	n.a.	M 4
T 5	12 39 25	11°30'47	14♍45	0♉55	0♓14	3°20	21°13	5°38	19° 3	19°19	8°33	3°46	2°39	26°13	n.a.	T 5
W 6	12 43 22	12°28'44	29°39	2°23	0°50	4° 5	21°25	5°45	19° 0	19°21	8°35	3°38	2°36	26°20	n.a.	W 6
T 7	12 47 19	13°26'39	14♎28	3°46	1°27	4°51	21°37	5°53	18°58	19°22	8°36	3°29	2°33	26°26	n.a.	T 7
F 8	12 51 15	14°24'32	29° 4	5° 6	2° 5	5°37	21°49	6° 1	18°55	19°24	8°38	3°18	2°29	26°33	n.a.	F 8
S 9	12 55 12	15°22'24	13♏20	6°21	2°44	6°22	22° 1	6° 9	18°53	19°25	8°39	3° 8	2°26	26°39	n.a.	S 9
S 10	12 59 8	16°20'15	27°10	7°33	3°25	7° 8	22°14	6°16	18°50	19°27	8°40	2°59	2°23	26°46	n.a.	S 10
M11	13 3 5	17°18'04	10♐33	8°40	4° 6	7°54	22°26	6°24	18°48	19°28	8°42	2°52	2°20	26°53	n.a.	M11
T 12	13 7 1	18°15'52	23°29	9°42	4°49	8°39	22°38	6°32	18°45	19°29	8°43	2°47	2°17	26°59	n.a.	T 12
W13	13 10 58	19°13'38	6♑ 1	10°40	5°32	9°25	22°51	6°39	18°43	19°31	8°44	2°45	2°14	27° 6	n.a.	W13
T 14	13 14 54	20°11'24	18°15	11°34	6°17	10°10	23° 3	6°47	18°40	19°32	8°46	2°D44	2°10	27°13	n.a.	T 14
F 15	13 18 51	21° 9'08	0♒14	12°23	7° 2	10°56	23°16	6°55	18°37	19°33	8°47	2°R44	2° 7	27°19	n.a.	F 15
S 16	13 22 48	22° 6'51	12° 5	13° 8	7°48	11°41	23°29	7° 2	18°35	19°35	8°48	2°44	2° 4	27°26	n.a.	S 16
S 17	13 26 44	23° 4'32	23°52	13°48	8°35	12°26	23°41	7°10	18°32	19°36	8°50	2°42	2° 1	27°33	n.a.	S 17
M18	13 30 41	24° 2'13	5♓41	14°23	9°23	13°12	23°54	7°17	18°30	19°37	8°51	2°38	1°58	27°39	n.a.	M18
T 19	13 34 37	24°59'52	17°36	14°54	10°11	13°57	24° 7	7°25	18°27	19°38	8°52	2°32	1°54	27°46	n.a.	T 19
W20	13 38 34	25°57'30	29°40	15°19	11° 1	14°42	24°20	7°32	18°25	19°40	8°54	2°23	1°51	27°53	n.a.	W20
T 21	13 42 30	26°55'07	11♈55	15°40	11°51	15°27	24°32	7°40	18°22	19°41	8°55	2°11	1°48	27°59	n.a.	T 21
F 22	13 46 27	27°52'42	24°23	15°56	12°41	16°12	24°45	7°47	18°20	19°42	8°56	1°58	1°45	28° 6	n.a.	F 22
S 23	13 50 23	28°50'17	7♉ 5	16° 8	13°32	16°58	24°58	7°55	18°17	19°43	8°58	1°45	1°42	28°13	n.a.	S 23
S 24	13 54 20	29°47'50	19°59	16°14	14°24	17°43	25°11	8° 2	18°15	19°44	8°59	1°33	1°39	28°19	n.a.	S 24
M25	13 58 16	0♉45'22	3♊ 6	16°R16	15°17	18°27	25°24	8°10	18°13	19°45	9° 0	1°23	1°35	28°26	n.a.	M25
T 26	14 2 13	1°42'52	16°24	16°13	16°10	19°12	25°37	8°17	18°10	19°46	9° 2	1°15	1°32	28°33	n.a.	T 26
W27	14 6 10	2°40'21	29°53	16° 6	17° 3	19°57	25°50	8°24	18° 8	19°47	9° 3	1°10	1°29	28°39	n.a.	W27
T 28	14 10 6	3°37'49	13♋32	15°54	17°57	20°42	26° 4	8°32	18° 5	19°48	9° 4	1° 8	1°26	28°46	n.a.	T 28
F 29	14 14 3	4°35'15	27°22	15°38	18°52	21°27	26°17	8°39	18° 3	19°49	9° 5	1° 7	1°23	28°53	n.a.	F 29
S 30	14 17 59	5♉32'40	11♌23	15♉19	19♓47	22♓11	26♉30	8♈46	18♎ 1	19♒50	9♈ 7	1♌ 7	1♌19	28♒59	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n 4	21n 9	1s30	11n18	1n52	9s55	2n32	12s41	1s16	17n37	0s27	0s 4	2s18	7s 4	0n34	16s 7	0s56	11s29	16s14	19n30	19n44	14s57		n.a.
S 2	3 27	19 56	0 16	12 4	2 0	9 54	2 21	12 25	1 16	17 41	0 27	0 1	2 18	7 3	0 34	16 7	0 56	11 28	16 14	19 30	19 45	14 56		n.a.
S 3	3 50	17 24	1n 0	12 48	2 8	9 53	2 11	12 8	1 16	17 44	0 26	0n 3	2 18	7 2	0 34	16 6	0 56	11 28	16 14	19 30	19 46	14 54		n.a.
M 4	4 13	13 43	2 14	13 29	2 15	9 50	2 1	11 52	1 16	17 47	0 26	0 6	2 18	7 1	0 34	16 6	0 56	11 27	16 14	19 31	19 47	14 53		n.a.
T 5	4 36	9 8	3 19	14 7	2 21	9 47	1 51	11 35	1 16	17 51	0 26	0 9	2 19	7 0	0 34	16 5	0 57	11 27	16 14	19 32	19 47	14 51		n.a.
W 6	4 59	3 59	4 11	14 44	2 27	9 44	1 41	11 18	1 16	17 54	0 26	0 12	2 19	7 0	0 34	16 5	0 57	11 26	16 14	19 33	19 48	14 50		n.a.
T 7	5 22	1s23	4 46	15 17	2 31	9 39	1 32	11 1	1 17	17 57	0 26	0 15	2 19	6 59	0 34	16 4	0 57	11 26	16 14	19 36	19 49	14 48		n.a.
F 8	5 45	6 34	5 2	15 48	2 35	9 34	1 22	10 44	1 17	18 1	0 26	0 18	2 19	6 58	0 34	16 4	0 57	11 25	16 14	19 38	19 50	14 47		n.a.
S 9	6 7	11 17	4 58	16 17	2 38	9 28	1 13	10 27	1 17	18 4	0 26	0 21	2 19	6 57	0 34	16 4	0 57	11 24	16 14	19 41	19 50	14 45		n.a.
S 10	6 30	15 16	4 36	16 42	2 40	9 22	1 5	10 10	1 17	18 7	0 25	0 24	2 19	6 56	0 34	16 3	0 57	11 24	16 14	19 43	19 51	14 44		n.a.
M11	6 52	18 19	4 0	17 6	2 42	9 15	0 56	9 53	1 17	18 11	0 25	0 27	2 19	6 55	0 34	16 3	0 57	11 23	16 14	19 44	19 52	14 42		n.a.
T 12	7 14	20 21	3 12	17 26	2 42	9 7	0 47	9 36	1 17	18 14	0 25	0 30	2 19	6 54	0 34	16 2	0 57	11 23	16 14	19 45	19 52	14 40		n.a.
W13	7 37	21 17	2 17	17 44	2 41	8 59	0 39	9 19	1 17	18 17	0 25	0 33	2 19	6 53	0 34	16 2	0 57	11 22	16 14	19 46	19 53	14 39		n.a.
T 14	7 59	21 11	1 16	18 0	2 40	8 50	0 31	9 1	1 17	18 21	0 25	0 36	2 19	6 52	0 34	16 1	0 57	11 22	16 14	19 46	19 54	14 37		n.a.
F 15	8 21	20 7	0 13	18 13	2 37	8 40	0 23	8 44	1 17	18 24	0 25	0 39	2 19	6 51	0 34	16 1	0 57	11 21	16 14	19 46	19 55	14 36		n.a.
S 16	8 42	18 9	0s49	18 23	2 33	8 30	0 16	8 26	1 17	18 27	0 25	0 42	2 19	6 50	0 34	16 1	0 57	11 21	16 14	19 46	19 55	14 34		n.a.
S 17	9 4	15 26	1 50	18 31	2 29	8 19	0 8	8 9	1 17	18 31	0 24	0 45	2 19	6 49	0 34	16 0	0 57	11 21	16 14	19 47	19 56	14 33		n.a.
M18	9 26	12 5	2 45	18 37	2 23	8 7	0 1	7 51	1 17	18 34	0 24	0 48	2 19	6 48	0 34	16 0	0 57	11 20	16 14	19 47	19 57	14 31		n.a.
T 19	9 47	8 14	3 34	18 39	2 16	7 56	0s 6	7 34	1 17	18 37	0 24	0 51	2 19	6 47	0 34	16 0	0 57	11 20	16 14	19 49	19 57	14 29		n.a.
W20	10 8	4 0	4 13	18 40	2 9	7 43	0 13	7 16	1 17	18 41	0 24	0 54	2 19	6 46	0 34	15 59	0 57	11 19	16 14	19 51	19 58	14 28		n.a.
T 21	10 29	0n27	4 42	18 38	2 0	7 30	0 20	6 58	1 17	18 44	0 24	0 57	2 19	6 45	0 34	15 59	0 57	11 19	16 14	19 54	19 59	14 26		n.a.
F 22	10 50	4 57	4 58	18 33	1 50	7 16	0 26	6 41	1 17	18 47	0 24	1 0	2 19	6 44	0 34	15 59	0 57	11 18	16 14	19 57	20 0	14 25		n.a.
S 23	11 11	9 19	4 59	18 26	1 39	7 2	0 32	6 23	1 17	18 50	0 24	1 3	2 19	6 43	0 34	15 58	0 57	11 18	16 14	20 0	20 0	14 23		n.a.
S 24	11 32	13 22	4 45	18 17	1 28	6 48	0 38	6 5	1 17	18 54	0 24	1 5	2 19	6 42	0 34	15 58	0 57	11 17	16 14	20 2	20 1	14 21		n.a.
M25	11 52	16 49	4 16	18 5	1 15	6 33	0 44	5 47	1 16	18 57	0 23	1 8	2 20	6 41	0 34	15 58	0 57	11 17	16 15	20 5	20 2	14 20		n.a.
T 26	12 12	19 29	3 33	17 51	1 1	6 17	0 50	5 29	1 16	19 0	0 23	1 11	2 20	6 40	0 34	15 58	0 57	11 17	16 15	20 6	20 2	14 18		n.a.
W27	12 32	21 5	2 37	17 35	0 47	6 1	0 56	5 11	1 16	19 4	0 23	1 14	2 20	6 40	0 34	15 57	0 57	11 16	16 15	20 7	20 3	14 17		n.a.
T 28	12 52	21 30	1 32	17 18	0 32	5 45	1 1	4 53	1 16	19 7	0 23	1 17	2 20	6 39	0 34	15 57	0 57	11 16	16 15	20 8	20 4	14 15		n.a.
F 29	13 12	20 36	0 20	16 58	0 16	5 28	1 6	4 35	1 16	19 10	0 23	1 20	2 20	6 38	0 34	15 57	0 57	11 15	16 15	20 8	20 5	14 13		n.a.
S 30	13n31	18n25	0n54	16n37	0s 0	5s11	1s11	4s18	1s16	19n13	0s23	1n22	2s20	6s37	0n34	15s56	0s58	11s15	16s15	20n 8	20n 5	14s12		n.a.

Julian Day Number = 1676587.5, Delta T = 03h17m43s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'39, Lahiri = - 5°38'39 Julian Calendar 1 Apr. 123 BCE == Greg. Calendar 29 March 123 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

MAY 123 BCE (-122) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 56	6♉30'04	25♌35	14°R56	20♓43	22♓56	26♉43	8♈53	17°R58	19♒51	9♈ 8	1°R 6	1♌16	29♒ 6	n.a.	S 1
M 2	14 25 52	7°27'26	9♍56	14♉30	21°39	23°41	26°56	9° 0	17♎56	19°51	9° 9	1♌ 4	1°13	29°13	n.a.	M 2
T 3	14 29 49	8°24'47	24°24	14° 1	22°35	24°25	27°10	9° 8	17°53	19°52	9°10	0°58	1°10	29°19	n.a.	T 3
W 4	14 33 45	9°22'06	8♎53	13°31	23°32	25°10	27°23	9°15	17°51	19°53	9°12	0°50	1° 7	29°26	n.a.	W 4
T 5	14 37 42	10°19'25	23°20	12°59	24°30	25°54	27°36	9°22	17°49	19°54	9°13	0°40	1° 4	29°33	n.a.	T 5
F 6	14 41 39	11°16'42	7♏36	12°25	25°27	26°38	27°50	9°29	17°47	19°54	9°14	0°29	1° 0	29°39	n.a.	F 6
S 7	14 45 35	12°13'59	21°36	11°52	26°25	27°23	28° 3	9°36	17°44	19°55	9°15	0°18	0°57	29°46	n.a.	S 7
S 8	14 49 32	13°11'15	5♐16	11°18	27°24	28° 7	28°16	9°43	17°42	19°56	9°16	0° 8	0°54	29°53	n.a.	S 8
M 9	14 53 28	14° 8'30	18°33	10°46	28°23	28°51	28°30	9°50	17°40	19°56	9°18	0° 0	0°51	29°59	n.a.	M 9
T 10	14 57 25	15° 5'45	1♑27	10°14	29°22	29°35	28°43	9°56	17°38	19°57	9°19	29♋55	0°48	0♓ 6	n.a.	T 10
W11	15 1 21	16° 2'59	13°59	9°44	0♈22	0♈19	28°57	10° 3	17°36	19°57	9°20	29°52	0°45	0°13	n.a.	W11
T 12	15 5 18	17° 0'13	26°13	9°17	1°22	1° 3	29°10	10°10	17°34	19°58	9°21	29°D51	0°41	0°19	n.a.	T 12
F 13	15 9 15	17°57'26	8♒14	8°52	2°22	1°47	29°24	10°17	17°32	19°58	9°22	29°51	0°38	0°26	n.a.	F 13
S 14	15 13 11	18°54'39	20° 6	8°31	3°23	2°31	29°37	10°23	17°30	19°59	9°23	29°R51	0°35	0°33	n.a.	S 14
S 15	15 17 8	19°51'52	1♓55	8°13	4°24	3°15	29°51	10°30	17°28	19°59	9°24	29°50	0°32	0°39	n.a.	S 15
M16	15 21 4	20°49'04	13°47	7°59	5°25	3°58	0♊ 4	10°37	17°26	19°59	9°25	29°48	0°29	0°46	n.a.	M16
T 17	15 25 1	21°46'15	25°45	7°49	6°27	4°42	0°18	10°43	17°24	20° 0	9°26	29°43	0°25	0°53	n.a.	T 17
W18	15 28 57	22°43'27	7♈55	7°43	7°28	5°26	0°32	10°50	17°22	20° 0	9°27	29°36	0°22	0°59	n.a.	W18
T 19	15 32 54	23°40'38	20°19	7°D42	8°30	6° 9	0°45	10°56	17°20	20° 0	9°29	29°27	0°19	1° 6	n.a.	T 19
F 20	15 36 50	24°37'49	3♉ 0	7°45	9°33	6°53	0°59	11° 2	17°18	20° 1	9°30	29°16	0°16	1°13	n.a.	F 20
S 21	15 40 47	25°34'59	15°58	7°53	10°35	7°36	1°12	11° 9	17°16	20° 1	9°31	29° 5	0°13	1°19	n.a.	S 21
S 22	15 44 44	26°32'10	29°12	8° 6	11°38	8°19	1°26	11°15	17°14	20° 1	9°32	28°55	0°10	1°26	n.a.	S 22
M23	15 48 40	27°29'20	12♊41	8°23	12°41	9° 3	1°40	11°21	17°13	20° 1	9°33	28°47	0° 6	1°33	n.a.	M23
T 24	15 52 37	28°26'29	26°23	8°44	13°44	9°46	1°53	11°27	17°11	20° 1	9°34	28°40	0° 3	1°39	n.a.	T 24
W25	15 56 33	29°23'38	10♋13	9°11	14°48	10°29	2° 7	11°33	17° 9	20° 1	9°34	28°37	0° 0	1°46	n.a.	W25
T 26	16 0 30	0♊20'47	24°11	9°42	15°52	11°12	2°21	11°39	17° 8	20° 1	9°35	28°D35	29♋57	1°53	n.a.	T 26
F 27	16 4 26	1°17'55	8♌15	10°17	16°56	11°55	2°34	11°45	17° 6	20°R 1	9°36	28°35	29°54	1°59	n.a.	F 27
S 28	16 8 23	2°15'03	22°22	10°58	18° 0	12°38	2°48	11°51	17° 5	20° 1	9°37	28°36	29°51	2° 6	n.a.	S 28
S 29	16 12 19	3°12'10	6♍31	11°42	19° 4	13°21	3° 1	11°57	17° 3	20° 1	9°38	28°R36	29°47	2°13	n.a.	S 29
M30	16 16 16	4° 9'17	20°41	12°31	20° 9	14° 4	3°15	12° 3	17° 2	20° 1	9°39	28°35	29°44	2°19	n.a.	M30
T 31	16 20 13	5♊ 6'23	4♎51	13♉24	21♈13	14♈46	3♊29	12♈ 9	17♎ 0	20♒ 1	9♈40	28♋32	29♋41	2♓26	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	13n50	15n 6	2n 6	16n14	0s17	4s53	1s16	4s 0	1s16	19n16	0s23	1n25	2s20	6s36	0n34	15s56	0s58	11s15	16s15	20n 8	20n 6	14s10			n.a.
M 2	14 9	10 51	3 10	15 50	0 34	4 35	1 21	3 42	1 16	19 20	0 23	1 28	2 20	6 35	0 34	15 56	0 58	11 14	16 15	20 9	20 7	14 8			n.a.
T 3	14 28	5 57	4 2	15 25	0 51	4 16	1 25	3 24	1 16	19 23	0 22	1 31	2 20	6 34	0 34	15 56	0 58	11 14	16 16	20 10	20 7	14 7			n.a.
W 4	14 47	0 43	4 39	14 59	1 8	3 58	1 29	3 6	1 15	19 26	0 22	1 33	2 20	6 33	0 34	15 56	0 58	11 14	16 16	20 12	20 8	14 5			n.a.
T 5	15 5	4s33	4 59	14 33	1 25	3 38	1 34	2 48	1 15	19 29	0 22	1 36	2 21	6 32	0 34	15 55	0 58	11 13	16 16	20 14	20 9	14 3			n.a.
F 6	15 23	9 30	4 59	14 7	1 42	3 19	1 38	2 30	1 15	19 32	0 22	1 39	2 21	6 32	0 34	15 55	0 58	11 13	16 16	20 16	20 10	14 2			n.a.
S 7	15 41	13 51	4 41	13 41	1 58	2 59	1 41	2 12	1 15	19 36	0 22	1 41	2 21	6 31	0 34	15 55	0 58	11 13	16 16	20 19	20 10	14 0			n.a.
S 8	15 58	17 22	4 7	13 16	2 14	2 39	1 45	1 54	1 15	19 39	0 22	1 44	2 21	6 30	0 34	15 55	0 58	11 12	16 16	20 21	20 11	13 59			n.a.
M 9	16 16	19 53	3 20	12 52	2 29	2 19	1 49	1 36	1 15	19 42	0 22	1 47	2 21	6 29	0 34	15 55	0 58	11 12	16 16	20 23	20 12	13 57			n.a.
T 10	16 33	21 17	2 25	12 29	2 43	1 58	1 52	1 18	1 14	19 45	0 22	1 49	2 21	6 28	0 34	15 55	0 58	11 12	16 17	20 24	20 12	13 55			n.a.
W11	16 50	21 35	1 23	12 7	2 56	1 37	1 55	1 0	1 14	19 48	0 22	1 52	2 21	6 28	0 34	15 55	0 58	11 12	16 17	20 24	20 13	13 53			n.a.
T 12	17 6	20 50	0 19	11 47	3 8	1 15	1 58	0 42	1 14	19 51	0 21	1 54	2 21	6 27	0 34	15 54	0 58	11 11	16 17	20 25	20 14	13 52			n.a.
F 13	17 22	19 8	0s44	11 29	3 19	0 54	2 1	0 24	1 14	19 54	0 21	1 57	2 22	6 26	0 34	15 54	0 58	11 11	16 17	20 25	20 14	13 50			n.a.
S 14	17 38	16 37	1 46	11 13	3 29	0 32	2 4	0 7	1 13	19 57	0 21	1 59	2 22	6 25	0 34	15 54	0 58	11 11	16 17	20 25	20 15	13 48			n.a.
S 15	17 54	13 26	2 42	10 59	3 37	0 10	2 7	0n11	1 13	20 0	0 21	2 2	2 22	6 24	0 34	15 54	0 58	11 11	16 18	20 25	20 16	13 47			n.a.
M16	18 10	9 42	3 31	10 48	3 44	0n12	2 9	0 29	1 13	20 3	0 21	2 4	2 22	6 24	0 34	15 54	0 58	11 10	16 18	20 25	20 17	13 45			n.a.
T 17	18 25	5 33	4 12	10 39	3 50	0 35	2 11	0 47	1 13	20 6	0 21	2 7	2 22	6 23	0 34	15 54	0 58	11 10	16 18	20 26	20 17	13 43			n.a.
W18	18 40	1 8	4 42	10 33	3 55	0 57	2 14	1 4	1 12	20 9	0 21	2 9	2 22	6 22	0 34	15 54	0 58	11 10	16 18	20 28	20 18	13 42			n.a.
T 19	18 54	3n25	4 59	10 29	3 58	1 20	2 16	1 22	1 12	20 12	0 21	2 12	2 22	6 22	0 34	15 54	0 58	11 10	16 18	20 30	20 19	13 40			n.a.
F 20	19 8	7 55	5 3	10 28	4 0	1 43	2 17	1 40	1 12	20 15	0 21	2 14	2 23	6 21	0 34	15 54	0 58	11 9	16 19	20 32	20 19	13 38			n.a.
S 21	19 22	12 10	4 50	10 29	4 1	2 6	2 19	1 57	1 12	20 18	0 20	2 16	2 23	6 20	0 34	15 54	0 58	11 9	16 19	20 34	20 20	13 37			n.a.
S 22	19 36	15 56	4 22	10 34	4 1	2 30	2 21	2 15	1 11	20 21	0 20	2 19	2 23	6 20	0 34	15 54	0 58	11 9	16 19	20 36	20 21	13 35			n.a.
M23	19 49	18 57	3 40	10 40	4 0	2 53	2 22	2 32	1 11	20 24	0 20	2 21	2 23	6 19	0 34	15 54	0 58	11 9	16 19	20 38	20 21	13 33			n.a.
T 24	20 2	20 56	2 43	10 49	3 58	3 17	2 24	2 50	1 11	20 27	0 20	2 23	2 23	6 18	0 34	15 54	0 59	11 9	16 20	20 39	20 22	13 31			n.a.
W25	20 15	21 42	1 37	11 1	3 54	3 40	2 25	3 7	1 10	20 29	0 20	2 25	2 23	6 18	0 34	15 54	0 59	11 9	16 20	20 40	20 23	13 30			n.a.
T 26	20 27	21 8	0 24	11 15	3 50	4 4	2 26	3 24	1 10	20 32	0 20	2 28	2 24	6 17	0 34	15 54	0 59	11 8	16 20	20 40	20 23	13 28			n.a.
F 27	20 39	19 14	0n52	11 31	3 45	4 28	2 27	3 42	1 10	20 35	0 20	2 30	2 24	6 17	0 34	15 54	0 59	11 8	16 20	20 40	20 24	13 26			n.a.
S 28	20 51	16 10	2 4	11 49	3 39	4 52	2 28	3 59	1 9	20 38	0 20	2 32	2 24	6 16	0 34	15 54	0 59	11 8	16 20	20 40	20 25	13 24			n.a.
S 29	21 2	12 8	3 9	12 9	3 33	5 16	2 28	4 16	1 9	20 41	0 20	2 34	2 24	6 15	0 34	15 54	0 59	11 8	16 21	20 40	20 25	13 23			n.a.
M30	21 13	7 26	4 2	12 31	3 25	5 40	2 29	4 33	1 9	20 43	0 19	2 36	2 24	6 15	0 34	15 54	0 59	11 8	16 21	20 40	20 26	13 21			n.a.
T 31	21n23	2n21	4n41	12n54	3s17	6n 4	2s29	4n50	1s 8	20n46	0s19	2n38	2s24	6s14	0n33	15s54	0s59	11s 8	16s21	20n41	20n27	13s19			n.a.

Julian Day Number = 1676617.5, Delta T = 03h17m42s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'35, Lahiri = - 5°38'34 Julian Calendar 1 May 123 BCE == Greg. Calendar 28 Apr. 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

JUNE 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 24 9	6♊ 3'29	18♎57	14♉21	22♈18	15♈29	3♊42	12♈14	16°R59	20°R 1	9♈41	28°R27	29♋38	2♓33	n.a.	W 1
T 2	16 28 6	7° 0'35	2♏57	15°23	23°23	16°11	3°56	12°20	16♎58	20♒ 1	9°42	28♋20	29°35	2°39	n.a.	T 2
F 3	16 32 2	7°57'41	16°47	16°28	24°29	16°54	4°10	12°25	16°56	20° 1	9°42	28°12	29°31	2°46	n.a.	F 3
S 4	16 35 59	8°54'46	0♐24	17°38	25°34	17°36	4°23	12°31	16°55	20° 0	9°43	28° 4	29°28	2°53	n.a.	S 4
S 5	16 39 55	9°51'52	13°44	18°52	26°40	18°19	4°37	12°36	16°54	20° 0	9°44	27°57	29°25	2°59	n.a.	S 5
M 6	16 43 52	10°48'58	26°46	20°10	27°45	19° 1	4°50	12°42	16°53	20° 0	9°45	27°51	29°22	3° 6	n.a.	M 6
T 7	16 47 48	11°46'04	9♑30	21°31	28°51	19°43	5° 4	12°47	16°52	19°59	9°45	27°47	29°19	3°13	n.a.	T 7
W 8	16 51 45	12°43'10	21°56	22°57	29°57	20°25	5°17	12°52	16°51	19°59	9°46	27°D46	29°16	3°19	n.a.	W 8
T 9	16 55 42	13°40'17	4♒ 7	24°26	1♉ 4	21° 7	5°31	12°57	16°50	19°59	9°47	27°46	29°12	3°26	n.a.	T 9
F 10	16 59 38	14°37'24	16° 7	25°59	2°10	21°49	5°45	13° 2	16°49	19°58	9°48	27°47	29° 9	3°33	n.a.	F 10
S 11	17 3 35	15°34'32	28° 0	27°36	3°17	22°31	5°58	13° 7	16°48	19°58	9°48	27°48	29° 6	3°39	n.a.	S 11
S 12	17 7 31	16°31'40	9♓50	29°16	4°24	23°13	6°12	13°12	16°47	19°57	9°49	27°49	29° 3	3°46	n.a.	S 12
M13	17 11 28	17°28'49	21°43	0♊59	5°30	23°55	6°25	13°17	16°46	19°57	9°50	27°R50	29° 0	3°53	n.a.	M13
T 14	17 15 24	18°25'58	3♈43	2°46	6°37	24°36	6°39	13°21	16°45	19°56	9°50	27°48	28°56	3°59	n.a.	T 14
W15	17 19 21	19°23'09	15°55	4°36	7°45	25°18	6°52	13°26	16°45	19°55	9°51	27°45	28°53	4° 6	n.a.	W15
T 16	17 23 17	20°20'19	28°24	6°29	8°52	25°59	7° 5	13°31	16°44	19°55	9°51	27°41	28°50	4°13	n.a.	T 16
F 17	17 27 14	21°17'31	11♉12	8°25	9°59	26°41	7°19	13°35	16°43	19°54	9°52	27°36	28°47	4°19	n.a.	F 17
S 18	17 31 11	22°14'43	24°20	10°23	11° 7	27°22	7°32	13°40	16°43	19°54	9°52	27°30	28°44	4°26	n.a.	S 18
S 19	17 35 7	23°11'56	7♊50	12°23	12°15	28° 3	7°46	13°44	16°42	19°53	9°53	27°25	28°41	4°33	n.a.	S 19
M20	17 39 4	24° 9'10	21°39	14°26	13°23	28°44	7°59	13°48	16°42	19°52	9°53	27°20	28°37	4°39	n.a.	M20
T 21	17 43 0	25° 6'24	5♋43	16°29	14°30	29°25	8°12	13°52	16°41	19°51	9°54	27°17	28°34	4°46	n.a.	T 21
W22	17 46 57	26° 3'39	20° 0	18°34	15°39	0♉ 6	8°26	13°56	16°41	19°51	9°54	27°16	28°31	4°53	n.a.	W22
T 23	17 50 53	27° 0'54	4♌23	20°41	16°47	0°47	8°39	14° 0	16°41	19°50	9°55	27°D16	28°28	4°59	n.a.	T 23
F 24	17 54 50	27°58'10	18°48	22°47	17°55	1°28	8°52	14° 4	16°40	19°49	9°55	27°17	28°25	5° 6	n.a.	F 24
S 25	17 58 47	28°55'27	3♍12	24°54	19° 3	2° 9	9° 5	14° 8	16°40	19°48	9°56	27°18	28°22	5°13	n.a.	S 25
S 26	18 2 43	29°52'44	17°30	27° 1	20°12	2°49	9°18	14°12	16°40	19°47	9°56	27°19	28°18	5°19	n.a.	S 26
M27	18 6 40	0♋50'01	1♎40	29° 8	21°21	3°30	9°32	14°15	16°40	19°46	9°56	27°R20	28°15	5°26	n.a.	M27
T 28	18 10 36	1°47'19	15°41	1♋15	22°29	4°10	9°45	14°19	16°40	19°45	9°57	27°19	28°12	5°33	n.a.	T 28
W29	18 14 33	2°44'37	29°31	3°21	23°38	4°50	9°58	14°22	16°D40	19°44	9°57	27°17	28° 9	5°39	n.a.	W29
T 30	18 18 29	3♋41'56	13♏ 9	5♋26	24♉47	5♉31	10♊11	14♈26	16♎40	19♒43	9♈57	27♋14	28♋ 6	5♓46	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n34	2s51	5n 2	13n20	3s 8	6n28	2s30	5n 7	1s 8	20n49	0s19	2n40	2s25	6s14	0n33	15s54	0s59	11s 8	16s22	20n42	20n27	13s18		n.a.
T 2	21 43	7 51	5 6	13 47	2 59	6 52	2 30	5 24	1 8	20 52	0 19	2 42	2 25	6 13	0 33	15 54	0 59	11 8	16 22	20 44	20 28	13 16		n.a.
F 3	21 53	12 24	4 51	14 15	2 49	7 16	2 30	5 41	1 7	20 54	0 19	2 44	2 25	6 13	0 33	15 54	0 59	11 8	16 22	20 45	20 29	13 14		n.a.
S 4	22 2	16 14	4 20	14 45	2 39	7 40	2 30	5 58	1 7	20 57	0 19	2 46	2 25	6 12	0 33	15 55	0 59	11 8	16 22	20 47	20 29	13 12		n.a.
S 5	22 11	19 9	3 35	15 16	2 28	8 4	2 30	6 14	1 6	20 59	0 19	2 48	2 25	6 12	0 33	15 55	0 59	11 7	16 23	20 48	20 30	13 10		n.a.
M 6	22 19	21 1	2 39	15 47	2 17	8 28	2 30	6 31	1 6	21 2	0 19	2 50	2 26	6 12	0 33	15 55	0 59	11 7	16 23	20 50	20 31	13 9		n.a.
T 7	22 27	21 45	1 37	16 20	2 5	8 52	2 30	6 47	1 6	21 5	0 19	2 52	2 26	6 11	0 33	15 55	0 59	11 7	16 23	20 50	20 31	13 7		n.a.
W 8	22 35	21 23	0 32	16 54	1 53	9 15	2 29	7 4	1 5	21 7	0 19	2 54	2 26	6 11	0 33	15 55	0 59	11 7	16 23	20 51	20 32	13 5		n.a.
T 9	22 42	20 0	0s34	17 28	1 41	9 39	2 29	7 20	1 5	21 10	0 19	2 56	2 26	6 10	0 33	15 55	0 59	11 7	16 24	20 51	20 33	13 3		n.a.
F 10	22 49	17 44	1 38	18 2	1 29	10 3	2 28	7 36	1 4	21 12	0 18	2 57	2 27	6 10	0 33	15 55	0 59	11 7	16 24	20 50	20 33	13 2		n.a.
S 11	22 55	14 45	2 37	18 36	1 16	10 26	2 27	7 52	1 4	21 15	0 18	2 59	2 27	6 10	0 33	15 56	0 59	11 7	16 24	20 50	20 34	13 0		n.a.
S 12	23 1	11 11	3 29	19 11	1 4	10 50	2 26	8 8	1 3	21 17	0 18	3 1	2 27	6 9	0 33	15 56	0 59	11 7	16 25	20 50	20 35	12 58		n.a.
M13	23 7	7 10	4 12	19 45	0 51	11 13	2 26	8 24	1 3	21 20	0 18	3 3	2 27	6 9	0 33	15 56	0 59	11 7	16 25	20 50	20 35	12 56		n.a.
T 14	23 12	2 51	4 44	20 19	0 39	11 36	2 24	8 40	1 2	21 22	0 18	3 4	2 27	6 9	0 33	15 56	0 59	11 7	16 25	20 50	20 36	12 54		n.a.
W15	23 17	1n39	5 4	20 52	0 27	11 59	2 23	8 56	1 2	21 24	0 18	3 6	2 28	6 9	0 33	15 57	0 59	11 7	16 25	20 51	20 37	12 53		n.a.
T 16	23 21	6 11	5 11	21 24	0 15	12 22	2 22	9 12	1 1	21 27	0 18	3 7	2 28	6 8	0 33	15 57	1 0	11 7	16 26	20 51	20 37	12 51		n.a.
F 17	23 25	10 34	5 2	21 55	0 3	12 45	2 21	9 27	1 1	21 29	0 18	3 9	2 28	6 8	0 33	15 57	1 0	11 8	16 26	20 53	20 38	12 49		n.a.
S 18	23 29	14 35	4 38	22 24	0n 9	13 7	2 20	9 43	1 0	21 31	0 18	3 10	2 28	6 8	0 33	15 57	1 0	11 8	16 26	20 54	20 39	12 47		n.a.
S 19	23 32	17 57	3 57	22 52	0 20	13 30	2 18	9 58	1 0	21 34	0 18	3 12	2 29	6 8	0 33	15 58	1 0	11 8	16 27	20 55	20 39	12 45		n.a.
M20	23 35	20 25	3 2	23 17	0 30	13 52	2 17	10 13	0 59	21 36	0 18	3 13	2 29	6 8	0 33	15 58	1 0	11 8	16 27	20 56	20 40	12 44		n.a.
T 21	23 37	21 40	1 55	23 41	0 40	14 13	2 15	10 29	0 59	21 38	0 17	3 15	2 29	6 8	0 33	15 58	1 0	11 8	16 27	20 56	20 41	12 42		n.a.
W22	23 39	21 33	0 40	24 2	0 50	14 35	2 13	10 44	0 58	21 40	0 17	3 16	2 29	6 7	0 33	15 58	1 0	11 8	16 28	20 57	20 41	12 40		n.a.
T 23	23 40	20 1	0n39	24 21	0 59	14 56	2 11	10 58	0 58	21 43	0 17	3 17	2 29	6 7	0 33	15 59	1 0	11 8	16 28	20 57	20 42	12 38		n.a.
F 24	23 42	17 11	1 55	24 37	1 7	15 17	2 10	11 13	0 57	21 45	0 17	3 19	2 30	6 7	0 33	15 59	1 0	11 8	16 28	20 56	20 43	12 36		n.a.
S 25	23 42	13 18	3 4	24 51	1 14	15 38	2 8	11 28	0 57	21 47	0 17	3 20	2 30	6 7	0 33	15 59	1 0	11 8	16 29	20 56	20 43	12 34		n.a.
S 26	23 43	8 41	4 2	25 2	1 21	15 59	2 6	11 43	0 56	21 49	0 17	3 21	2 30	6 7	0 33	16 0	1 0	11 8	16 29	20 56	20 44	12 33		n.a.
M27	23 42	3 39	4 43	25 10	1 27	16 19	2 4	11 57	0 56	21 51	0 17	3 22	2 30	6 7	0 33	16 0	1 0	11 9	16 29	20 56	20 45	12 31		n.a.
T 28	23 42	1s31	5 8	25 15	1 32	16 39	2 1	12 11	0 55	21 53	0 17	3 24	2 31	6 7	0 33	16 0	1 0	11 9	16 29	20 56	20 45	12 29		n.a.
W29	23 41	6 32	5 14	25 17	1 37	16 58	1 59	12 26	0 54	21 55	0 17	3 25	2 31	6 7	0 32	16 1	1 0	11 9	16 30	20 56	20 46	12 27		n.a.
T 30	23n39	11s10	5n 2	25n16	1n41	17n17	1s57	12n40	0s54	21n57	0s17	3n26	2s31	6s 7	0n32	16s 1	1s 0	11s 9	16s30	20n57	20n47	12s25		n.a.

Julian Day Number = 1676648.5, Delta T = 03h17m41s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'31, Lahiri = - 5°38'30 Julian Calendar 1 June 123 BCE == Greg. Calendar 29 May 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

JULY 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 22 26	4♋39'16	26♏34	7♋30	25♉56	6♉11	10♊24	14♈29	16♎40	19°R42	9♈58	27°R11	28♋ 2	5♓53	n.a.	F 1
S 2	18 26 22	5°36'36	9♐45	9°33	27° 5	6°51	10°37	14°32	16°40	19♒41	9°58	27♋ 8	27°59	5°59	n.a.	S 2
S 3	18 30 19	6°33'58	22°42	11°34	28°15	7°31	10°49	14°35	16°40	19°40	9°58	27° 5	27°56	6° 6	n.a.	S 3
M 4	18 34 16	7°31'20	5♑25	13°34	29°24	8°11	11° 2	14°38	16°40	19°39	9°58	27° 3	27°53	6°13	n.a.	M 4
T 5	18 38 12	8°28'44	17°54	15°33	0♊34	8°50	11°15	14°41	16°41	19°38	9°59	27° 2	27°50	6°20	n.a.	T 5
W 6	18 42 9	9°26'08	0♒10	17°31	1°43	9°30	11°28	14°44	16°41	19°37	9°59	27°D 2	27°47	6°26	n.a.	W 6
T 7	18 46 5	10°23'34	12°15	19°27	2°53	10°10	11°41	14°46	16°41	19°36	9°59	27° 2	27°43	6°33	n.a.	T 7
F 8	18 50 2	11°21'01	24°12	21°21	4° 3	10°49	11°53	14°49	16°42	19°34	9°59	27° 4	27°40	6°40	n.a.	F 8
S 9	18 53 58	12°18'29	6♓ 3	23°14	5°12	11°28	12° 6	14°51	16°42	19°33	9°59	27° 5	27°37	6°46	n.a.	S 9
S 10	18 57 55	13°15'59	17°53	25° 6	6°22	12° 8	12°18	14°54	16°43	19°32	9°59	27° 6	27°34	6°53	n.a.	S 10
M11	19 1 51	14°13'30	29°46	26°56	7°33	12°47	12°31	14°56	16°44	19°31	9°59	27° 7	27°31	7° 0	n.a.	M11
T 12	19 5 48	15°11'03	11♈45	28°44	8°43	13°26	12°43	14°58	16°44	19°29	9°59	27°R 7	27°28	7° 6	n.a.	T 12
W13	19 9 45	16° 8'37	23°57	0♌31	9°53	14° 5	12°56	15° 0	16°45	19°28	9°59	27° 7	27°24	7°13	n.a.	W13
T 14	19 13 41	17° 6'13	6♉25	2°16	11° 3	14°44	13° 8	15° 2	16°46	19°27	9°R59	27° 7	27°21	7°20	n.a.	T 14
F 15	19 17 38	18° 3'50	19°13	4° 0	12°14	15°22	13°21	15° 4	16°47	19°25	9°59	27° 6	27°18	7°26	n.a.	F 15
S 16	19 21 34	19° 1'29	2♊24	5°42	13°24	16° 1	13°33	15° 6	16°47	19°24	9°59	27° 5	27°15	7°33	n.a.	S 16
S 17	19 25 31	19°59'10	15°59	7°23	14°35	16°40	13°45	15° 8	16°48	19°23	9°59	27° 4	27°12	7°40	n.a.	S 17
M18	19 29 27	20°56'52	29°59	9° 3	15°46	17°18	13°57	15° 9	16°49	19°21	9°59	27° 3	27° 8	7°46	n.a.	M18
T 19	19 33 24	21°54'36	14♋20	10°41	16°57	17°56	14° 9	15°11	16°50	19°20	9°59	27° 3	27° 5	7°53	n.a.	T 19
W20	19 37 20	22°52'21	28°58	12°17	18° 7	18°34	14°21	15°12	16°51	19°18	9°59	27°D 3	27° 2	8° 0	n.a.	W20
T 21	19 41 17	23°50'08	13♌46	13°52	19°18	19°13	14°33	15°13	16°53	19°17	9°59	27° 3	26°59	8° 6	n.a.	T 21
F 22	19 45 14	24°47'56	28°36	15°26	20°29	19°51	14°45	15°14	16°54	19°15	9°59	27° 3	26°56	8°13	n.a.	F 22
S 23	19 49 10	25°45'45	13♍23	16°58	21°41	20°28	14°57	15°15	16°55	19°14	9°58	27° 3	26°53	8°20	n.a.	S 23
S 24	19 53 7	26°43'36	27°59	18°29	22°52	21° 6	15° 8	15°16	16°56	19°13	9°58	27°R 3	26°49	8°26	n.a.	S 24
M25	19 57 3	27°41'28	12♎19	19°58	24° 3	21°44	15°20	15°17	16°58	19°11	9°58	27° 3	26°46	8°33	n.a.	M25
T 26	20 1 0	28°39'21	26°22	21°26	25°15	22°21	15°32	15°18	16°59	19°10	9°58	27°D 3	26°43	8°40	n.a.	T 26
W27	20 4 56	29°37'16	10♏ 5	22°53	26°26	22°58	15°43	15°18	17° 0	19° 8	9°58	27° 3	26°40	8°46	n.a.	W27
T 28	20 8 53	0♌35'12	23°30	24°17	27°38	23°36	15°55	15°19	17° 2	19° 6	9°57	27° 4	26°37	8°53	n.a.	T 28
F 29	20 12 49	1°33'10	6♐37	25°41	28°49	24°13	16° 6	15°19	17° 3	19° 5	9°57	27° 4	26°34	9° 0	n.a.	F 29
S 30	20 16 46	2°31'09	19°27	27° 2	0♋ 1	24°50	16°17	15°20	17° 5	19° 3	9°57	27° 5	26°30	9° 6	n.a.	S 30
S 31	20 20 43	3♌29'09	2♑ 4	28♌23	1♋13	25♉27	16♊28	15♈20	17♎ 7	19♒ 2	9♈56	27♋ 5	26♋27	9♓13	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n38	15s10	4n34	25n13	1n44	17n36	1s55	12n54	0s53	21n59	0s17	3n27	2s32	6s 7	0n32	16s 1	1s 0	11s 9	16s30	20n57	20n47	12s23		n.a.
S 2	23 35	18 21	3 52	25 7	1 46	17 54	1 52	13 8	0 53	22 1	0 16	3 28	2 32	6 7	0 32	16 2	1 0	11 10	16 31	20 58	20 48	12 22		n.a.
S 3	23 33	20 32	2 58	24 59	1 48	18 12	1 50	13 21	0 52	22 3	0 16	3 29	2 32	6 8	0 32	16 2	1 0	11 10	16 31	20 59	20 48	12 20		n.a.
M 4	23 30	21 39	1 57	24 48	1 49	18 30	1 47	13 35	0 51	22 5	0 16	3 30	2 32	6 8	0 32	16 2	1 0	11 10	16 31	20 59	20 49	12 18		n.a.
T 5	23 26	21 40	0 50	24 36	1 49	18 47	1 45	13 48	0 51	22 7	0 16	3 30	2 33	6 8	0 32	16 3	1 0	11 10	16 32	20 59	20 50	12 16		n.a.
W 6	23 22	20 37	0s17	24 20	1 49	19 4	1 42	14 2	0 50	22 9	0 16	3 31	2 33	6 8	0 32	16 3	1 0	11 10	16 32	20 59	20 50	12 14		n.a.
T 7	23 18	18 39	1 23	24 3	1 48	19 20	1 40	14 15	0 49	22 10	0 16	3 32	2 33	6 8	0 32	16 4	1 0	11 11	16 32	20 59	20 51	12 12		n.a.
F 8	23 13	15 52	2 25	23 44	1 46	19 36	1 37	14 28	0 49	22 12	0 16	3 33	2 33	6 8	0 32	16 4	1 0	11 11	16 33	20 59	20 52	12 10		n.a.
S 9	23 8	12 29	3 20	23 23	1 44	19 52	1 34	14 41	0 48	22 14	0 16	3 34	2 34	6 9	0 32	16 4	1 0	11 11	16 33	20 59	20 52	12 8		n.a.
S 10	23 2	8 36	4 6	23 1	1 41	20 7	1 32	14 54	0 47	22 16	0 16	3 34	2 34	6 9	0 32	16 5	1 0	11 11	16 33	20 58	20 53	12 7		n.a.
M11	22 56	4 24	4 42	22 37	1 38	20 21	1 29	15 6	0 47	22 18	0 16	3 35	2 34	6 9	0 32	16 5	1 0	11 12	16 34	20 58	20 54	12 5		n.a.
T 12	22 50	0n 1	5 6	22 12	1 35	20 35	1 26	15 19	0 46	22 19	0 16	3 35	2 34	6 9	0 32	16 6	1 0	11 12	16 34	20 58	20 54	12 3		n.a.
W13	22 43	4 30	5 16	21 45	1 31	20 49	1 23	15 31	0 45	22 21	0 16	3 36	2 35	6 10	0 32	16 6	1 0	11 12	16 34	20 58	20 55	12 1		n.a.
T 14	22 36	8 53	5 13	21 17	1 26	21 2	1 20	15 44	0 45	22 23	0 15	3 37	2 35	6 10	0 32	16 7	1 1	11 13	16 35	20 58	20 55	11 59		n.a.
F 15	22 28	13 1	4 54	20 48	1 22	21 14	1 17	15 56	0 44	22 24	0 15	3 37	2 35	6 10	0 32	16 7	1 1	11 13	16 35	20 58	20 56	11 57		n.a.
S 16	22 20	16 39	4 19	20 17	1 16	21 26	1 14	16 8	0 43	22 26	0 15	3 37	2 36	6 11	0 32	16 8	1 1	11 13	16 35	20 59	20 57	11 55		n.a.
S 17	22 12	19 30	3 29	19 46	1 11	21 37	1 11	16 20	0 42	22 27	0 15	3 38	2 36	6 11	0 32	16 8	1 1	11 13	16 36	20 59	20 57	11 53		n.a.
M18	22 3	21 18	2 25	19 14	1 5	21 48	1 8	16 31	0 42	22 29	0 15	3 38	2 36	6 12	0 32	16 9	1 1	11 14	16 36	20 59	20 58	11 51		n.a.
T 19	21 54	21 46	1 10	18 42	0 59	21 58	1 5	16 43	0 41	22 30	0 15	3 39	2 36	6 12	0 32	16 9	1 1	11 14	16 36	20 59	20 59	11 49		n.a.
W20	21 45	20 46	0n11	18 8	0 52	22 8	1 2	16 54	0 40	22 32	0 15	3 39	2 37	6 12	0 32	16 9	1 1	11 14	16 37	20 59	20 59	11 47		n.a.
T 21	21 35	18 20	1 32	17 35	0 46	22 17	0 59	17 5	0 39	22 33	0 15	3 39	2 37	6 13	0 32	16 10	1 1	11 15	16 37	20 59	21 0	11 46		n.a.
F 22	21 24	14 41	2 46	17 0	0 38	22 26	0 56	17 17	0 39	22 35	0 15	3 39	2 37	6 13	0 32	16 10	1 1	11 15	16 37	20 59	21 0	11 44		n.a.
S 23	21 14	10 8	3 50	16 25	0 31	22 34	0 53	17 28	0 38	22 36	0 15	3 39	2 37	6 14	0 32	16 11	1 1	11 15	16 38	20 59	21 1	11 42		n.a.
S 24	21 3	5 3	4 38	15 50	0 24	22 41	0 50	17 38	0 37	22 38	0 15	3 39	2 38	6 14	0 32	16 11	1 1	11 16	16 38	20 59	21 2	11 40		n.a.
M25	20 51	0s13	5 7	15 14	0 16	22 47	0 47	17 49	0 36	22 39	0 15	3 40	2 38	6 15	0 32	16 12	1 1	11 16	16 38	20 59	21 2	11 38		n.a.
T 26	20 40	5 21	5 17	14 38	0 8	22 53	0 44	18 0	0 36	22 40	0 14	3 40	2 38	6 16	0 32	16 12	1 1	11 17	16 38	20 59	21 3	11 36		n.a.
W27	20 28	10 7	5 9	14 2	0s 0	22 59	0 41	18 10	0 35	22 42	0 14	3 40	2 39	6 16	0 31	16 13	1 1	11 17	16 39	20 59	21 4	11 34		n.a.
T 28	20 15	14 16	4 44	13 26	0 9	23 4	0 38	18 20	0 34	22 43	0 14	3 39	2 39	6 17	0 31	16 13	1 1	11 17	16 39	20 59	21 4	11 32		n.a.
F 29	20 2	17 38	4 5	12 50	0 17	23 8	0 35	18 30	0 33	22 44	0 14	3 39	2 39	6 17	0 31	16 14	1 1	11 18	16 39	20 59	21 5	11 30		n.a.
S 30	19 49	20 4	3 14	12 14	0 26	23 11	0 31	18 40	0 32	22 46	0 14	3 39	2 39	6 18	0 31	16 14	1 1	11 18	16 40	20 59	21 5	11 28		n.a.
S 31	19n36	21s27	2n15	11n38	0s35	23n14	0s28	18n50	0s31	22n47	0s14	3n39	2s40	6s19	0n31	16s15	1s 1	11s19	16s40	20n59	21n 6	11s26		n.a.

Julian Day Number = 1676678.5, Delta T = 03h17m40s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'27, Lahiri = - 5°38'26 Julian Calendar 1 July 123 BCE == Greg. Calendar 28 June 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

AUGUST 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 24 39	4♌27'11	14♉28	29♌41	2♋24	26♉ 3	16♊40	15°R20	17♎ 8	19°R 0	9°R56	27♋ 6	26♋24	9♓20	n.a.	M 1
T 2	20 28 36	5°25'15	26°42	0♍58	3°36	26°40	16°51	15♈20	17°10	18♒59	9♈56	27°R 6	26°21	9°27	n.a.	T 2
W 3	20 32 32	6°23'20	8♒47	2°13	4°48	27°16	17° 2	15°20	17°12	18°57	9°55	27° 6	26°18	9°33	n.a.	W 3
T 4	20 36 29	7°21'28	20°44	3°26	6° 0	27°53	17°12	15°19	17°14	18°55	9°55	27° 5	26°14	9°40	n.a.	T 4
F 5	20 40 25	8°19'37	2♓37	4°38	7°13	28°29	17°23	15°19	17°15	18°54	9°54	27° 4	26°11	9°47	n.a.	F 5
S 6	20 44 22	9°17'48	14°27	5°47	8°25	29° 5	17°34	15°18	17°17	18°52	9°54	27° 2	26° 8	9°53	n.a.	S 6
S 7	20 48 18	10°16'01	26°17	6°55	9°37	29°41	17°44	15°18	17°19	18°50	9°53	27° 0	26° 5	10° 0	n.a.	S 7
M 8	20 52 15	11°14'16	8♈10	8° 0	10°50	0♊17	17°55	15°17	17°21	18°49	9°53	26°58	26° 2	10° 7	n.a.	M 8
T 9	20 56 12	12°12'33	20° 9	9° 3	12° 2	0°52	18° 5	15°16	17°23	18°47	9°52	26°56	25°59	10°13	n.a.	T 9
W10	21 0 8	13°10'52	2♉19	10° 4	13°15	1°28	18°16	15°15	17°25	18°46	9°52	26°55	25°55	10°20	n.a.	W10
T 11	21 4 5	14° 9'13	14°44	11° 1	14°27	2° 3	18°26	15°14	17°27	18°44	9°51	26°D55	25°52	10°27	n.a.	T 11
F 12	21 8 1	15° 7'37	27°27	11°57	15°40	2°38	18°36	15°13	17°30	18°42	9°51	26°55	25°49	10°33	n.a.	F 12
S 13	21 11 58	16° 6'03	10♊33	12°49	16°53	3°14	18°46	15°12	17°32	18°41	9°50	26°56	25°46	10°40	n.a.	S 13
S 14	21 15 54	17° 4'31	24° 5	13°38	18° 5	3°48	18°56	15°11	17°34	18°39	9°49	26°58	25°43	10°47	n.a.	S 14
M15	21 19 51	18° 3'02	8♋ 3	14°24	19°18	4°23	19° 6	15° 9	17°36	18°37	9°49	26°59	25°40	10°53	n.a.	M15
T 16	21 23 47	19° 1'35	22°28	15° 6	20°31	4°58	19°15	15° 8	17°39	18°36	9°48	27°R 0	25°36	11° 0	n.a.	T 16
W17	21 27 44	20° 0'10	7♌15	15°44	21°44	5°32	19°25	15° 6	17°41	18°34	9°48	27° 0	25°33	11° 7	n.a.	W17
T 18	21 31 41	20°58'47	22°18	16°19	22°57	6° 6	19°35	15° 4	17°44	18°32	9°47	26°58	25°30	11°13	n.a.	T 18
F 19	21 35 37	21°57'25	7♍28	16°48	24°10	6°41	19°44	15° 3	17°46	18°31	9°46	26°56	25°27	11°20	n.a.	F 19
S 20	21 39 34	22°56'06	22°36	17°13	25°24	7°14	19°53	15° 1	17°48	18°29	9°45	26°52	25°24	11°27	n.a.	S 20
S 21	21 43 30	23°54'49	7♎32	17°33	26°37	7°48	20° 2	14°59	17°51	18°27	9°45	26°49	25°20	11°34	n.a.	S 21
M22	21 47 27	24°53'33	22° 9	17°47	27°50	8°22	20°11	14°56	17°54	18°26	9°44	26°45	25°17	11°40	n.a.	M22
T 23	21 51 23	25°52'20	6♏22	17°55	29° 4	8°55	20°20	14°54	17°56	18°24	9°43	26°43	25°14	11°47	n.a.	T 23
W24	21 55 20	26°51'08	20° 9	17°R57	0♌17	9°28	20°29	14°52	17°59	18°22	9°42	26°41	25°11	11°54	n.a.	W24
T 25	21 59 16	27°49'58	3♐31	17°52	1°31	10° 1	20°38	14°49	18° 2	18°21	9°42	26°D41	25° 8	12° 0	n.a.	T 25
F 26	22 3 13	28°48'49	16°29	17°41	2°44	10°34	20°46	14°47	18° 4	18°19	9°41	26°42	25° 5	12° 7	n.a.	F 26
S 27	22 7 9	29°47'43	29° 8	17°22	3°58	11° 7	20°55	14°44	18° 7	18°18	9°40	26°44	25° 1	12°14	n.a.	S 27
S 28	22 11 6	0♍46'39	11♑31	16°55	5°11	11°39	21° 3	14°42	18°10	18°16	9°39	26°46	24°58	12°20	n.a.	S 28
M29	22 15 3	1°45'36	23°42	16°21	6°25	12°12	21°11	14°39	18°13	18°14	9°38	26°R46	24°55	12°27	n.a.	M29
T 30	22 18 59	2°44'35	5♒43	15°40	7°39	12°44	21°19	14°36	18°16	18°13	9°37	26°46	24°52	12°34	n.a.	T 30
W31	22 22 56	3♍43'37	17♒39	14♍52	8♌53	13♊16	21♊27	14♈33	18♎18	18♒11	9♈37	26♋44	24♋49	12♓40	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	19n22	21s46	1n10	11n 2	0s43	23n16	0s25	18n59	0s31	22n48	0s14	3n39	2s40	6s19	0n31	16s16	1s 1	11s19	16s40	20n59	21n 7	11s24			n.a.
T 2	19 8	21 1	0 2	10 26	0 52	23 17	0 22	19 9	0 30	22 49	0 14	3 39	2 40	6 20	0 31	16 16	1 1	11 19	16 41	20 58	21 7	11 22			n.a.
W 3	18 53	19 18	1s 4	9 51	1 1	23 18	0 19	19 18	0 29	22 50	0 14	3 38	2 41	6 21	0 31	16 17	1 1	11 20	16 41	20 59	21 8	11 20			n.a.
T 4	18 38	16 45	2 7	9 16	1 11	23 18	0 16	19 27	0 28	22 51	0 14	3 38	2 41	6 22	0 31	16 17	1 1	11 20	16 41	20 59	21 8	11 18			n.a.
F 5	18 23	13 31	3 4	8 41	1 20	23 18	0 13	19 36	0 27	22 53	0 14	3 37	2 41	6 22	0 31	16 18	1 1	11 21	16 41	20 59	21 9	11 16			n.a.
S 6	18 8	9 46	3 53	8 7	1 29	23 16	0 10	19 45	0 26	22 54	0 14	3 37	2 41	6 23	0 31	16 18	1 1	11 21	16 42	20 59	21 10	11 14			n.a.
S 7	17 52	5 39	4 32	7 33	1 38	23 15	0 7	19 54	0 25	22 55	0 14	3 37	2 42	6 24	0 31	16 19	1 1	11 22	16 42	21 0	21 10	11 12			n.a.
M 8	17 36	1 18	4 59	7 0	1 47	23 12	0 4	20 3	0 24	22 56	0 13	3 36	2 42	6 25	0 31	16 19	1 1	11 22	16 42	21 0	21 11	11 10			n.a.
T 9	17 20	3n 8	5 14	6 28	1 57	23 9	0 1	20 11	0 23	22 57	0 13	3 35	2 42	6 25	0 31	16 20	1 1	11 23	16 43	21 0	21 11	11 8			n.a.
W10	17 3	7 30	5 15	5 57	2 6	23 5	0n 2	20 19	0 22	22 58	0 13	3 35	2 42	6 26	0 31	16 20	1 1	11 23	16 43	21 1	21 12	11 6			n.a.
T 11	16 46	11 39	5 1	5 26	2 15	23 0	0 5	20 27	0 22	22 59	0 13	3 34	2 43	6 27	0 31	16 21	1 1	11 23	16 43	21 1	21 13	11 4			n.a.
F 12	16 29	15 23	4 32	4 57	2 24	22 55	0 8	20 35	0 21	23 0	0 13	3 34	2 43	6 28	0 31	16 21	1 1	11 24	16 43	21 1	21 13	11 2			n.a.
S 13	16 11	18 30	3 49	4 28	2 33	22 49	0 11	20 43	0 20	23 1	0 13	3 33	2 43	6 29	0 31	16 22	1 1	11 24	16 44	21 0	21 14	11 0			n.a.
S 14	15 54	20 43	2 52	4 1	2 42	22 42	0 14	20 51	0 19	23 2	0 13	3 32	2 43	6 30	0 31	16 22	1 1	11 25	16 44	21 0	21 14	10 58			n.a.
M15	15 36	21 45	1 43	3 36	2 50	22 35	0 17	20 58	0 18	23 3	0 13	3 31	2 44	6 31	0 31	16 23	1 1	11 25	16 44	21 0	21 15	10 56			n.a.
T 16	15 17	21 24	0 25	3 12	2 58	22 26	0 19	21 6	0 17	23 3	0 13	3 30	2 44	6 32	0 31	16 23	1 1	11 26	16 44	21 0	21 16	10 54			n.a.
W17	14 59	19 34	0n56	2 50	3 6	22 18	0 22	21 13	0 16	23 4	0 13	3 30	2 44	6 33	0 31	16 24	1 1	11 26	16 45	21 0	21 16	10 52			n.a.
T 18	14 40	16 21	2 15	2 29	3 14	22 8	0 25	21 20	0 15	23 5	0 13	3 29	2 44	6 34	0 31	16 25	1 1	11 27	16 45	21 0	21 17	10 50			n.a.
F 19	14 21	12 1	3 24	2 11	3 21	21 58	0 28	21 27	0 14	23 6	0 13	3 28	2 45	6 34	0 31	16 25	1 1	11 27	16 45	21 0	21 17	10 48			n.a.
S 20	14 2	6 56	4 20	1 55	3 28	21 48	0 30	21 33	0 13	23 7	0 12	3 27	2 45	6 35	0 31	16 26	1 1	11 28	16 45	21 1	21 18	10 46			n.a.
S 21	13 42	1 30	4 56	1 42	3 34	21 36	0 33	21 40	0 12	23 7	0 12	3 26	2 45	6 36	0 31	16 26	1 1	11 28	16 46	21 2	21 19	10 44			n.a.
M22	13 22	3s54	5 13	1 31	3 39	21 24	0 35	21 47	0 10	23 8	0 12	3 25	2 45	6 38	0 31	16 27	1 1	11 29	16 46	21 2	21 19	10 42			n.a.
T 23	13 2	8 56	5 9	1 24	3 44	21 12	0 38	21 53	0 9	23 9	0 12	3 24	2 46	6 39	0 31	16 27	1 1	11 29	16 46	21 3	21 20	10 40			n.a.
W24	12 42	13 22	4 48	1 19	3 48	20 58	0 40	21 59	0 8	23 10	0 12	3 22	2 46	6 40	0 31	16 28	1 1	11 30	16 46	21 3	21 20	10 38			n.a.
T 25	12 22	16 59	4 11	1 19	3 51	20 45	0 43	22 5	0 7	23 10	0 12	3 21	2 46	6 41	0 31	16 28	1 1	11 30	16 47	21 3	21 21	10 36			n.a.
F 26	12 1	19 39	3 23	1 22	3 52	20 30	0 45	22 11	0 6	23 11	0 12	3 20	2 46	6 42	0 31	16 29	1 1	11 31	16 47	21 3	21 21	10 34			n.a.
S 27	11 40	21 17	2 25	1 29	3 53	20 15	0 48	22 17	0 5	23 12	0 12	3 19	2 47	6 43	0 31	16 29	1 1	11 31	16 47	21 3	21 22	10 32			n.a.
S 28	11 19	21 50	1 22	1 40	3 52	19 59	0 50	22 22	0 4	23 12	0 12	3 18	2 47	6 44	0 30	16 30	1 1	11 32	16 47	21 2	21 23	10 30			n.a.
M29	10 58	21 20	0 17	1 56	3 49	19 43	0 52	22 28	0 3	23 13	0 12	3 16	2 47	6 45	0 30	16 30	1 1	11 32	16 47	21 2	21 23	10 28			n.a.
T 30	10 37	19 50	0s49	2 16	3 45	19 26	0 54	22 33	0 2	23 14	0 12	3 15	2 47	6 46	0 30	16 31	1 1	11 33	16 48	21 2	21 24	10 26			n.a.
W31	10n15	17s29	1s51	2n40	3s39	19n 9	0n56	22n38	0s 0	23n14	0s12	3n14	2s47	6s47	0n30	16s31	1s 1	11s33	16s48	21n 3	21n24	10s24			n.a.

Julian Day Number = 1676709.5, Delta T = 03h17m39s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'22, Lahiri = - 5°38'22 Julian Calendar 1 Aug. 123 BCE == Greg. Calendar 29 July 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

SEPTEMBER 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 26 52	4♍42'40	29♒31	13°R58	10♌ 7	13♊47	21♊35	14°R30	18♎21	18°R10	9°R36	26°R40	24♋46	12♓47	n.a.	T 1
F 2	22 30 49	5°41'45	11♓21	12♍57	11°21	14°19	21°42	14♈27	18°24	18♒ 8	9♈35	26♋34	24°42	12°54	n.a.	F 2
S 3	22 34 45	6°40'53	23°12	11°53	12°35	14°50	21°50	14°23	18°27	18° 6	9°34	26°27	24°39	13° 0	n.a.	S 3
S 4	22 38 42	7°40'03	5♈ 5	10°45	13°49	15°21	21°57	14°20	18°30	18° 5	9°33	26°19	24°36	13° 7	n.a.	S 4
M 5	22 42 38	8°39'14	17° 1	9°35	15° 3	15°52	22° 4	14°17	18°33	18° 3	9°32	26°11	24°33	13°14	n.a.	M 5
T 6	22 46 35	9°38'29	29° 4	8°26	16°17	16°23	22°11	14°13	18°37	18° 2	9°31	26° 4	24°30	13°21	n.a.	T 6
W 7	22 50 32	10°37'45	11♉15	7°18	17°31	16°53	22°18	14° 9	18°40	18° 0	9°30	25°59	24°26	13°27	n.a.	W 7
T 8	22 54 28	11°37'05	23°39	6°15	18°45	17°23	22°25	14° 6	18°43	17°59	9°29	25°55	24°23	13°34	n.a.	T 8
F 9	22 58 25	12°36'26	6♊19	5°18	20° 0	17°53	22°32	14° 2	18°46	17°57	9°28	25°53	24°20	13°41	n.a.	F 9
S 10	23 2 21	13°35'50	19°18	4°28	21°14	18°23	22°38	13°58	18°49	17°56	9°27	25°D53	24°17	13°47	n.a.	S 10
S 11	23 6 18	14°35'16	2♋40	3°46	22°28	18°53	22°44	13°54	18°52	17°55	9°26	25°54	24°14	13°54	n.a.	S 11
M12	23 10 14	15°34'45	16°28	3°15	23°43	19°22	22°51	13°50	18°56	17°53	9°25	25°55	24°11	14° 1	n.a.	M12
T 13	23 14 11	16°34'17	0♌43	2°54	24°57	19°51	22°57	13°46	18°59	17°52	9°24	25°R55	24° 7	14° 7	n.a.	T 13
W14	23 18 7	17°33'50	15°24	2°D44	26°12	20°20	23° 2	13°42	19° 2	17°50	9°23	25°54	24° 4	14°14	n.a.	W14
T 15	23 22 4	18°33'26	0♍26	2°45	27°27	20°48	23° 8	13°38	19° 6	17°49	9°22	25°50	24° 1	14°21	n.a.	T 15
F 16	23 26 0	19°33'04	15°41	2°56	28°41	21°16	23°14	13°34	19° 9	17°48	9°21	25°44	23°58	14°27	n.a.	F 16
S 17	23 29 57	20°32'44	0♎59	3°19	29°56	21°44	23°19	13°30	19°12	17°46	9°20	25°36	23°55	14°34	n.a.	S 17
S 18	23 33 54	21°32'26	16° 8	3°51	1♍11	22°12	23°24	13°25	19°16	17°45	9°19	25°27	23°51	14°41	n.a.	S 18
M19	23 37 50	22°32'10	0♏59	4°32	2°25	22°39	23°29	13°21	19°19	17°44	9°18	25°19	23°48	14°48	n.a.	M19
T 20	23 41 47	23°31'56	15°25	5°21	3°40	23° 6	23°34	13°17	19°23	17°42	9°17	25°12	23°45	14°54	n.a.	T 20
W21	23 45 43	24°31'44	29°21	6°18	4°55	23°33	23°39	13°12	19°26	17°41	9°16	25° 6	23°42	15° 1	n.a.	W21
T 22	23 49 40	25°31'34	12♐48	7°22	6°10	23°59	23°43	13° 8	19°30	17°40	9°14	25° 4	23°39	15° 8	n.a.	T 22
F 23	23 53 36	26°31'26	25°47	8°32	7°25	24°25	23°47	13° 3	19°33	17°39	9°13	25°D 3	23°36	15°14	n.a.	F 23
S 24	23 57 33	27°31'19	8♑23	9°47	8°39	24°51	23°52	12°59	19°37	17°37	9°12	25° 3	23°32	15°21	n.a.	S 24
S 25	0 1 29	28°31'14	20°41	11° 6	9°54	25°17	23°56	12°54	19°40	17°36	9°11	25°R 4	23°29	15°28	n.a.	S 25
M26	0 5 26	29°31'11	2♒45	12°29	11° 9	25°42	23°59	12°49	19°44	17°35	9°10	25° 4	23°26	15°34	n.a.	M26
T 27	0 9 23	0♎31'09	14°40	13°56	12°24	26° 7	24° 3	12°45	19°47	17°34	9° 9	25° 2	23°23	15°41	n.a.	T 27
W28	0 13 19	1°31'10	26°31	15°25	13°39	26°31	24° 6	12°40	19°51	17°33	9° 8	24°57	23°20	15°48	n.a.	W28
T 29	0 17 16	2°31'12	8♓20	16°56	14°54	26°56	24°10	12°35	19°55	17°32	9° 7	24°50	23°17	15°54	n.a.	T 29
F 30	0 21 12	3♎31'16	20♓11	18♍29	16♍ 9	27♊19	24♊13	12♈30	19♎58	17♒31	9♈ 5	24♋40	23♋13	16♓ 1	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n53	14s24	2s49	3n 9	3s30	18n51	0n58	22n43	0n 1	23n15	0s11	3n12	2s48	6s48	0n30	16s32	1s 1	11s34	16s48	21n 4	21n25	10s22		n.a.
F 2	9 32	10 45	3 38	3 41	3 20	18 32	1 0	22 48	0 2	23 15	0 11	3 11	2 48	6 50	0 30	16 32	1 1	11 34	16 48	21 5	21 26	10 20		n.a.
S 3	9 10	6 41	4 19	4 17	3 8	18 13	1 2	22 53	0 3	23 16	0 11	3 9	2 48	6 51	0 30	16 33	1 1	11 35	16 48	21 6	21 26	10 18		n.a.
S 4	8 47	2 21	4 48	4 56	2 54	17 53	1 4	22 58	0 4	23 17	0 11	3 8	2 48	6 52	0 30	16 33	1 1	11 35	16 49	21 7	21 27	10 16		n.a.
M 5	8 25	2n 4	5 5	5 37	2 38	17 33	1 6	23 2	0 6	23 17	0 11	3 6	2 48	6 53	0 30	16 34	1 1	11 36	16 49	21 9	21 27	10 14		n.a.
T 6	8 2	6 28	5 8	6 19	2 21	17 13	1 8	23 7	0 7	23 18	0 11	3 5	2 49	6 54	0 30	16 34	1 1	11 37	16 49	21 10	21 28	10 11		n.a.
W 7	7 40	10 39	4 58	7 2	2 3	16 52	1 10	23 11	0 8	23 18	0 11	3 3	2 49	6 56	0 30	16 35	1 1	11 37	16 49	21 11	21 28	10 9		n.a.
T 8	7 17	14 29	4 33	7 44	1 43	16 30	1 11	23 15	0 9	23 19	0 11	3 2	2 49	6 57	0 30	16 35	1 1	11 38	16 49	21 12	21 29	10 7		n.a.
F 9	6 54	17 44	3 55	8 24	1 23	16 8	1 13	23 20	0 11	23 19	0 11	3 0	2 49	6 58	0 30	16 35	1 1	11 38	16 49	21 12	21 30	10 5		n.a.
S 10	6 31	20 12	3 4	9 1	1 3	15 45	1 14	23 23	0 12	23 19	0 11	2 59	2 49	6 59	0 30	16 36	1 1	11 39	16 49	21 12	21 30	10 3		n.a.
S 11	6 8	21 39	2 2	9 35	0 42	15 22	1 16	23 27	0 13	23 20	0 11	2 57	2 49	7 1	0 30	16 36	1 1	11 39	16 50	21 12	21 31	10 1		n.a.
M12	5 45	21 50	0 51	10 5	0 23	14 59	1 17	23 31	0 14	23 20	0 10	2 55	2 50	7 2	0 30	16 37	1 1	11 40	16 50	21 12	21 31	9 59		n.a.
T 13	5 21	20 39	0n26	10 30	0 4	14 35	1 18	23 35	0 16	23 21	0 10	2 54	2 50	7 3	0 30	16 37	1 1	11 40	16 50	21 12	21 32	9 57		n.a.
W14	4 58	18 2	1 43	10 50	0n14	14 10	1 20	23 38	0 17	23 21	0 10	2 52	2 50	7 4	0 30	16 38	1 1	11 41	16 50	21 12	21 32	9 55		n.a.
T 15	4 35	14 10	2 54	11 5	0 31	13 46	1 21	23 42	0 19	23 22	0 10	2 50	2 50	7 6	0 30	16 38	1 1	11 41	16 50	21 13	21 33	9 53		n.a.
F 16	4 11	9 18	3 54	11 15	0 46	13 20	1 22	23 45	0 20	23 22	0 10	2 48	2 50	7 7	0 30	16 39	1 1	11 42	16 50	21 14	21 33	9 51		n.a.
S 17	3 47	3 51	4 38	11 20	1 0	12 55	1 23	23 48	0 21	23 22	0 10	2 47	2 50	7 8	0 30	16 39	1 1	11 42	16 50	21 16	21 34	9 48		n.a.
S 18	3 23	1s47	5 1	11 20	1 12	12 29	1 24	23 51	0 23	23 23	0 10	2 45	2 50	7 10	0 30	16 39	1 1	11 43	16 50	21 17	21 35	9 46		n.a.
M19	3 0	7 12	5 4	11 15	1 23	12 3	1 25	23 54	0 24	23 23	0 10	2 43	2 50	7 11	0 30	16 40	1 1	11 43	16 50	21 19	21 35	9 44		n.a.
T 20	2 36	12 4	4 47	11 5	1 33	11 36	1 26	23 57	0 26	23 23	0 10	2 41	2 51	7 12	0 30	16 40	1 1	11 44	16 51	21 20	21 36	9 42		n.a.
W21	2 12	16 7	4 13	10 52	1 41	11 9	1 27	24 0	0 27	23 24	0 10	2 39	2 51	7 14	0 30	16 40	1 1	11 44	16 51	21 21	21 36	9 40		n.a.
T 22	1 48	19 11	3 26	10 34	1 48	10 42	1 27	24 3	0 29	23 24	0 10	2 37	2 51	7 15	0 30	16 41	1 1	11 45	16 51	21 22	21 37	9 38		n.a.
F 23	1 24	21 9	2 30	10 12	1 53	10 15	1 28	24 5	0 30	23 24	0 9	2 36	2 51	7 16	0 30	16 41	1 1	11 45	16 51	21 22	21 37	9 36		n.a.
S 24	1 0	21 59	1 28	9 48	1 57	9 47	1 28	24 8	0 32	23 25	0 9	2 34	2 51	7 18	0 30	16 42	1 1	11 46	16 51	21 22	21 38	9 34		n.a.
S 25	0 36	21 43	0 23	9 20	2 0	9 19	1 29	24 11	0 33	23 25	0 9	2 32	2 51	7 19	0 30	16 42	1 1	11 46	16 51	21 22	21 38	9 31		n.a.
M26	0 12	20 26	0s41	8 50	2 2	8 50	1 29	24 13	0 35	23 25	0 9	2 30	2 51	7 20	0 30	16 42	1 1	11 47	16 51	21 22	21 39	9 29		n.a.
T 27	0s13	18 15	1 43	8 17	2 4	8 22	1 30	24 15	0 36	23 25	0 9	2 28	2 51	7 22	0 30	16 43	1 1	11 47	16 51	21 22	21 40	9 27		n.a.
W28	0 37	15 18	2 39	7 43	2 4	7 53	1 30	24 18	0 38	23 26	0 9	2 26	2 51	7 23	0 30	16 43	1 1	11 47	16 51	21 23	21 40	9 25		n.a.
T 29	1 1	11 45	3 29	7 6	2 3	7 24	1 30	24 20	0 39	23 26	0 9	2 24	2 51	7 25	0 30	16 43	1 1	11 48	16 51	21 24	21 41	9 23		n.a.
F 30	1s25	7s44	4s 9	6n28	2n 2	6n54	1n30	24n22	0n41	23n26	0s 9	2n22	2s51	7s26	0n30	16s44	1s 1	11s48	16s51	21n26	21n41	9s21		n.a.

Julian Day Number = 1676740.5, Delta T = 03h17m38s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'18, Lahiri = - 5°38'18 Julian Calendar 1 Sept. 123 BCE == Greg. Calendar 29 Aug. 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

OCTOBER 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 25 9	4♎31'22	2♈ 5	20♍ 3	17♍25	27♊43	24♊16	12°R25	20♎ 2	17°R30	9°R 4	24°R27	23♋10	16♓ 8	n.a.	S 1
S 2	0 29 5	5°31'29	14° 4	21°39	18°40	28° 6	24°18	12♈21	20° 6	17♒29	9♈ 3	24♋14	23° 7	16°15	n.a.	S 2
M 3	0 33 2	6°31'39	26° 8	23°16	19°55	28°29	24°21	12°16	20° 9	17°28	9° 2	24° 0	23° 4	16°21	n.a.	M 3
T 4	0 36 58	7°31'51	8♉20	24°53	21°10	28°51	24°23	12°11	20°13	17°27	9° 1	23°48	23° 1	16°28	n.a.	T 4
W 5	0 40 55	8°32'05	20°40	26°30	22°25	29°13	24°25	12° 6	20°17	17°26	9° 0	23°37	22°57	16°35	n.a.	W 5
T 6	0 44 51	9°32'21	3♊10	28° 8	23°41	29°35	24°27	12° 1	20°20	17°25	8°59	23°30	22°54	16°41	n.a.	T 6
F 7	0 48 48	10°32'39	15°53	29°47	24°56	29°56	24°29	11°56	20°24	17°24	8°58	23°25	22°51	16°48	n.a.	F 7
S 8	0 52 45	11°32'59	28°51	1♎25	26°11	0♋16	24°30	11°51	20°28	17°23	8°56	23°23	22°48	16°55	n.a.	S 8
S 9	0 56 41	12°33'21	12♋ 7	3° 3	27°26	0°37	24°32	11°46	20°31	17°23	8°55	23°D22	22°45	17° 1	n.a.	S 9
M10	1 0 38	13°33'45	25°45	4°41	28°42	0°57	24°33	11°42	20°35	17°22	8°54	23°R22	22°42	17° 8	n.a.	M10
T 11	1 4 34	14°34'12	9♌46	6°19	29°57	1°16	24°34	11°37	20°39	17°21	8°53	23°21	22°38	17°15	n.a.	T 11
W12	1 8 31	15°34'40	24°10	7°57	1♎12	1°35	24°35	11°32	20°43	17°21	8°52	23°19	22°35	17°22	n.a.	W12
T 13	1 12 27	16°35'10	8♍55	9°35	2°28	1°54	24°35	11°27	20°46	17°20	8°51	23°13	22°32	17°28	n.a.	T 13
F 14	1 16 24	17°35'43	23°57	11°13	3°43	2°12	24°35	11°22	20°50	17°19	8°50	23° 5	22°29	17°35	n.a.	F 14
S 15	1 20 20	18°36'16	9♎ 6	12°50	4°59	2°29	24°R36	11°17	20°54	17°19	8°49	22°54	22°26	17°42	n.a.	S 15
S 16	1 24 17	19°36'52	24°12	14°27	6°14	2°46	24°36	11°12	20°57	17°18	8°47	22°43	22°22	17°48	n.a.	S 16
M17	1 28 14	20°37'29	9♏ 5	16° 4	7°30	3° 3	24°35	11° 8	21° 1	17°17	8°46	22°31	22°19	17°55	n.a.	M17
T 18	1 32 10	21°38'08	23°36	17°40	8°45	3°19	24°35	11° 3	21° 5	17°17	8°45	22°20	22°16	18° 2	n.a.	T 18
W19	1 36 7	22°38'49	7♐39	19°17	10° 1	3°34	24°34	10°58	21° 9	17°16	8°44	22°13	22°13	18° 8	n.a.	W19
T 20	1 40 3	23°39'30	21°13	20°53	11°16	3°49	24°33	10°53	21°12	17°16	8°43	22° 7	22°10	18°15	n.a.	T 20
F 21	1 44 0	24°40'13	4♑18	22°28	12°32	4° 4	24°32	10°49	21°16	17°16	8°42	22° 5	22° 7	18°22	n.a.	F 21
S 22	1 47 56	25°40'57	16°58	24° 4	13°47	4°17	24°31	10°44	21°20	17°15	8°41	22° 4	22° 3	18°28	n.a.	S 22
S 23	1 51 53	26°41'43	29°17	25°39	15° 3	4°31	24°30	10°39	21°24	17°15	8°40	22° 4	22° 0	18°35	n.a.	S 23
M24	1 55 49	27°42'29	11♒21	27°14	16°18	4°43	24°28	10°35	21°27	17°15	8°39	22° 3	21°57	18°42	n.a.	M24
T 25	1 59 46	28°43'17	23°15	28°49	17°34	4°55	24°26	10°30	21°31	17°14	8°38	22° 1	21°54	18°49	n.a.	T 25
W26	2 3 43	29°44'05	5♓ 5	0♏24	18°49	5° 7	24°24	10°26	21°35	17°14	8°37	21°57	21°51	18°55	n.a.	W26
T 27	2 7 39	0♏44'55	16°54	1°59	20° 5	5°18	24°22	10°21	21°39	17°14	8°35	21°49	21°48	19° 2	n.a.	T 27
F 28	2 11 36	1°45'46	28°47	3°33	21°20	5°28	24°19	10°17	21°42	17°14	8°34	21°39	21°44	19° 9	n.a.	F 28
S 29	2 15 32	2°46'38	10♈46	5° 7	22°36	5°38	24°17	10°13	21°46	17°14	8°33	21°26	21°41	19°15	n.a.	S 29
S 30	2 19 29	3°47'31	22°53	6°41	23°51	5°47	24°14	10° 8	21°50	17°13	8°32	21°12	21°38	19°22	n.a.	S 30
M31	2 23 25	4♏48'25	5♉ 9	8♏16	25♎ 7	5♋55	24♊11	10♈ 4	21♎53	17♒13	8♈31	20♋58	21♋35	19♓29	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s49	3s25	4s39	5n49	2n 0	6n25	1n30	24n24	0n43	23n26	0s 9	2n20	2s51	7s27	0n30	16s44	1s 1	11s49	16s51	21n28	21n42	9s19		n.a.
S 2	2 13	1n 4	4 56	5 8	1 57	5 55	1 30	24 26	0 44	23 27	0 9	2 18	2 51	7 29	0 30	16 44	1 1	11 49	16 51	21 31	21 42	9 16		n.a.
M 3	2 37	5 32	5 1	4 27	1 54	5 25	1 30	24 28	0 46	23 27	0 8	2 17	2 51	7 30	0 30	16 44	1 1	11 50	16 51	21 33	21 43	9 14		n.a.
T 4	3 1	9 51	4 51	3 45	1 51	4 55	1 30	24 30	0 48	23 27	0 8	2 15	2 51	7 32	0 30	16 45	1 1	11 50	16 51	21 35	21 43	9 12		n.a.
W 5	3 25	13 48	4 29	3 2	1 47	4 25	1 30	24 32	0 50	23 27	0 8	2 13	2 51	7 33	0 30	16 45	1 1	11 51	16 51	21 37	21 44	9 10		n.a.
T 6	3 49	17 13	3 53	2 19	1 42	3 55	1 30	24 34	0 51	23 27	0 8	2 11	2 51	7 34	0 30	16 45	1 1	11 51	16 51	21 38	21 44	9 8		n.a.
F 7	4 13	19 54	3 4	1 35	1 38	3 24	1 29	24 36	0 53	23 28	0 8	2 9	2 51	7 36	0 30	16 45	1 1	11 51	16 51	21 39	21 45	9 6		n.a.
S 8	4 37	21 36	2 6	0 51	1 33	2 53	1 29	24 37	0 55	23 28	0 8	2 7	2 51	7 37	0 30	16 46	1 1	11 52	16 51	21 40	21 45	9 3		n.a.
S 9	5 1	22 10	0 59	0 7	1 28	2 23	1 29	24 39	0 57	23 28	0 8	2 5	2 51	7 39	0 30	16 46	1 1	11 52	16 51	21 40	21 46	9 1		n.a.
M10	5 25	21 26	0n13	0s38	1 22	1 52	1 28	24 41	0 59	23 28	0 8	2 3	2 51	7 40	0 30	16 46	1 1	11 53	16 51	21 40	21 47	8 59		n.a.
T 11	5 48	19 23	1 26	1 22	1 16	1 21	1 27	24 43	1 1	23 28	0 8	2 1	2 51	7 42	0 30	16 46	1 1	11 53	16 51	21 40	21 47	8 57		n.a.
W12	6 12	16 3	2 35	2 7	1 10	0 50	1 27	24 44	1 2	23 28	0 7	1 59	2 51	7 43	0 30	16 47	1 1	11 53	16 51	21 40	21 48	8 55		n.a.
T 13	6 35	11 38	3 36	2 51	1 4	0 19	1 26	24 46	1 4	23 28	0 7	1 57	2 51	7 44	0 30	16 47	1 1	11 54	16 51	21 41	21 48	8 53		n.a.
F 14	6 59	6 26	4 23	3 36	0 58	0s12	1 25	24 48	1 6	23 29	0 7	1 56	2 51	7 46	0 30	16 47	1 1	11 54	16 51	21 43	21 49	8 50		n.a.
S 15	7 22	0 49	4 52	4 20	0 52	0 43	1 24	24 49	1 8	23 29	0 7	1 54	2 51	7 47	0 30	16 47	1 1	11 55	16 51	21 44	21 49	8 48		n.a.
S 16	7 45	4s51	5 0	5 4	0 46	1 14	1 23	24 51	1 10	23 29	0 7	1 52	2 51	7 49	0 30	16 47	1 1	11 55	16 51	21 46	21 50	8 46		n.a.
M17	8 9	10 8	4 48	5 47	0 39	1 45	1 22	24 53	1 12	23 29	0 7	1 50	2 51	7 50	0 30	16 47	1 1	11 55	16 50	21 48	21 50	8 44		n.a.
T 18	8 32	14 44	4 17	6 31	0 33	2 16	1 21	24 54	1 14	23 29	0 7	1 48	2 51	7 52	0 30	16 48	1 1	11 56	16 50	21 50	21 51	8 42		n.a.
W19	8 54	18 21	3 32	7 14	0 26	2 47	1 20	24 56	1 16	23 29	0 7	1 46	2 51	7 53	0 30	16 48	1 1	11 56	16 50	21 51	21 51	8 39		n.a.
T 20	9 17	20 50	2 35	7 56	0 19	3 18	1 19	24 58	1 18	23 29	0 7	1 45	2 51	7 54	0 30	16 48	1 1	11 56	16 50	21 52	21 52	8 37		n.a.
F 21	9 40	22 6	1 33	8 39	0 13	3 49	1 18	24 59	1 21	23 29	0 6	1 43	2 51	7 56	0 30	16 48	1 1	11 57	16 50	21 53	21 52	8 35		n.a.
S 22	10 2	22 10	0 27	9 21	0 6	4 19	1 17	25 1	1 23	23 29	0 6	1 41	2 50	7 57	0 30	16 48	1 1	11 57	16 50	21 53	21 53	8 33		n.a.
S 23	10 24	21 9	0s38	10 2	0s 0	4 50	1 15	25 3	1 25	23 29	0 6	1 39	2 50	7 59	0 30	16 48	1 1	11 57	16 50	21 53	21 53	8 31		n.a.
M24	10 47	19 10	1 40	10 43	0 7	5 21	1 14	25 5	1 27	23 29	0 6	1 38	2 50	8 0	0 30	16 48	1 1	11 58	16 50	21 53	21 54	8 28		n.a.
T 25	11 8	16 23	2 37	11 23	0 14	5 51	1 12	25 6	1 29	23 30	0 6	1 36	2 50	8 2	0 30	16 48	1 1	11 58	16 50	21 53	21 54	8 26		n.a.
W26	11 30	12 57	3 26	12 3	0 20	6 22	1 11	25 8	1 32	23 30	0 6	1 34	2 50	8 3	0 30	16 48	1 1	11 58	16 49	21 54	21 55	8 24		n.a.
T 27	11 52	9 1	4 7	12 42	0 26	6 52	1 9	25 10	1 34	23 30	0 6	1 33	2 50	8 4	0 30	16 48	1 0	11 58	16 49	21 55	21 55	8 22		n.a.
F 28	12 13	4 43	4 37	13 21	0 33	7 22	1 8	25 12	1 36	23 30	0 6	1 31	2 50	8 6	0 30	16 48	1 0	11 59	16 49	21 57	21 56	8 19		n.a.
S 29	12 34	0 13	4 55	13 59	0 39	7 52	1 6	25 14	1 39	23 30	0 5	1 30	2 50	8 7	0 30	16 48	1 0	11 59	16 49	21 59	21 56	8 17		n.a.
S 30	12 55	4n21	5 0	14 37	0 45	8 22	1 5	25 16	1 41	23 30	0 5	1 28	2 49	8 9	0 30	16 48	1 0	11 59	16 49	22 1	21 57	8 15		n.a.
M31	13s16	8n49	4s51	15s14	0s51	8s51	1n 3	25n18	1n43	23n30	0s 5	1n27	2s49	8s10	0n30	16s48	1s 0	11s59	16s49	22n 3	21n57	8s13		n.a.

Julian Day Number = 1676770.5, Delta T = 03h17m37s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'14, Lahiri = - 5°38'14 Julian Calendar 1 Oct. 123 BCE == Greg. Calendar 28 Sept. 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

NOVEMBER 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 27 22	5♏49'21	17♉35	9♏50	26♎22	6♋ 3	24°R 8	10°R 0	21♎57	17°R13	8°R30	20°R45	21♋32	19♓35	n.a.	T 1
W 2	2 31 18	6°50'18	0♊11	11°23	27°38	6°10	24♊ 4	9♈56	22° 1	17°D13	8♈29	20♋34	21°28	19°42	n.a.	W 2
T 3	2 35 15	7°51'16	12°57	12°57	28°54	6°16	24° 1	9°52	22° 4	17♒13	8°28	20°26	21°25	19°49	n.a.	T 3
F 4	2 39 12	8°52'15	25°53	14°31	0♏ 9	6°21	23°57	9°48	22° 8	17°13	8°27	20°20	21°22	19°56	n.a.	F 4
S 5	2 43 8	9°53'15	9♋ 2	16° 5	1°25	6°26	23°53	9°44	22°12	17°14	8°27	20°18	21°19	20° 2	n.a.	S 5
S 6	2 47 5	10°54'17	22°23	17°39	2°40	6°30	23°49	9°40	22°15	17°14	8°26	20°D17	21°16	20° 9	n.a.	S 6
M 7	2 51 1	11°55'20	5♌59	19°12	3°56	6°34	23°45	9°36	22°19	17°14	8°25	20°R18	21°13	20°16	n.a.	M 7
T 8	2 54 58	12°56'25	19°51	20°46	5°12	6°36	23°40	9°33	22°22	17°14	8°24	20°18	21° 9	20°22	n.a.	T 8
W 9	2 58 54	13°57'30	4♍ 1	22°20	6°27	6°38	23°35	9°29	22°26	17°14	8°23	20°16	21° 6	20°29	n.a.	W 9
T 10	3 2 51	14°58'37	18°25	23°54	7°43	6°39	23°31	9°26	22°30	17°15	8°22	20°12	21° 3	20°36	n.a.	T 10
F 11	3 6 47	15°59'45	3♎ 3	25°27	8°58	6°R39	23°26	9°22	22°33	17°15	8°21	20° 5	21° 0	20°43	n.a.	F 11
S 12	3 10 44	17° 0'53	17°48	27° 1	10°14	6°39	23°20	9°19	22°37	17°15	8°20	19°56	20°57	20°49	n.a.	S 12
S 13	3 14 41	18° 2'03	2♏32	28°35	11°30	6°37	23°15	9°16	22°40	17°16	8°19	19°46	20°54	20°56	n.a.	S 13
M14	3 18 37	19° 3'13	17° 9	0♐ 9	12°45	6°35	23°10	9°12	22°44	17°16	8°19	19°36	20°50	21° 3	n.a.	M14
T 15	3 22 34	20° 4'25	1♐29	1°42	14° 1	6°32	23° 4	9° 9	22°47	17°16	8°18	19°27	20°47	21° 9	n.a.	T 15
W16	3 26 30	21° 5'37	15°28	3°16	15°16	6°28	22°58	9° 6	22°50	17°17	8°17	19°20	20°44	21°16	n.a.	W16
T 17	3 30 27	22° 6'49	29° 2	4°49	16°32	6°24	22°52	9° 3	22°54	17°17	8°16	19°15	20°41	21°23	n.a.	T 17
F 18	3 34 23	23° 8'02	12♑ 9	6°22	17°48	6°18	22°46	9° 1	22°57	17°18	8°15	19°13	20°38	21°29	n.a.	F 18
S 19	3 38 20	24° 9'15	24°53	7°55	19° 3	6°12	22°40	8°58	23° 1	17°19	8°15	19°D13	20°34	21°36	n.a.	S 19
S 20	3 42 17	25°10'28	7♒16	9°28	20°19	6° 5	22°33	8°55	23° 4	17°19	8°14	19°14	20°31	21°43	n.a.	S 20
M21	3 46 13	26°11'42	19°24	11° 0	21°34	5°57	22°27	8°53	23° 7	17°20	8°13	19°15	20°28	21°50	n.a.	M21
T 22	3 50 10	27°12'55	1♓20	12°32	22°50	5°48	22°20	8°50	23°10	17°21	8°12	19°R15	20°25	21°56	n.a.	T 22
W23	3 54 6	28°14'09	13°11	14° 3	24° 5	5°38	22°14	8°48	23°14	17°21	8°12	19°14	20°22	22° 3	n.a.	W23
T 24	3 58 3	29°15'22	25° 2	15°33	25°21	5°28	22° 7	8°46	23°17	17°22	8°11	19°10	20°19	22°10	n.a.	T 24
F 25	4 1 59	0♐16'36	6♈57	17° 2	26°37	5°16	22° 0	8°44	23°20	17°23	8°10	19° 4	20°15	22°16	n.a.	F 25
S 26	4 5 56	1°17'50	19° 0	18°30	27°52	5° 4	21°53	8°42	23°23	17°24	8°10	18°57	20°12	22°23	n.a.	S 26
S 27	4 9 52	2°19'04	1♉14	19°57	29° 8	4°51	21°45	8°40	23°26	17°24	8° 9	18°48	20° 9	22°30	n.a.	S 27
M28	4 13 49	3°20'17	13°41	21°22	0♐23	4°38	21°38	8°38	23°29	17°25	8° 9	18°39	20° 6	22°37	n.a.	M28
T 29	4 17 46	4°21'31	26°22	22°45	1°39	4°23	21°31	8°36	23°33	17°26	8° 8	18°31	20° 3	22°43	n.a.	T 29
W30	4 21 42	5♐22'45	9♊16	24♐ 5	2♐54	4♋ 8	21♊23	8♈35	23♎36	17♒27	8♈ 8	18♋24	19♋59	22♓50	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s37	12n58	4s28	15s50	0s57	9s21	1n 1	25n20	1n46	23n30	0s 5	1n25	2s49	8s11	0n30	16s48	1s 0	12s 0	16s48	22n 5	21n58	8s10		n.a.
W 2	13 57	16 38	3 52	16 25	1 3	9 50	0 59	25 22	1 48	23 30	0 5	1 24	2 49	8 13	0 30	16 48	1 0	12 0	16 48	22 7	21 58	8 8		n.a.
T 3	14 17	19 34	3 4	17 0	1 9	10 19	0 57	25 24	1 51	23 30	0 5	1 22	2 49	8 14	0 30	16 48	1 0	12 0	16 48	22 8	21 59	8 6		n.a.
F 4	14 37	21 33	2 6	17 34	1 15	10 47	0 55	25 26	1 53	23 29	0 5	1 21	2 49	8 15	0 30	16 48	1 0	12 0	16 48	22 9	21 59	8 4		n.a.
S 5	14 57	22 25	0 59	18 7	1 20	11 16	0 54	25 29	1 56	23 29	0 5	1 19	2 48	8 17	0 30	16 48	1 0	12 0	16 48	22 9	22 0	8 2		n.a.
S 6	15 16	22 1	0n11	18 39	1 25	11 44	0 52	25 31	1 58	23 29	0 4	1 18	2 48	8 18	0 30	16 48	1 0	12 1	16 47	22 9	22 0	7 59		n.a.
M 7	15 35	20 19	1 22	19 10	1 30	12 12	0 50	25 33	2 1	23 29	0 4	1 17	2 48	8 19	0 30	16 48	1 0	12 1	16 47	22 9	22 1	7 57		n.a.
T 8	15 54	17 24	2 30	19 41	1 35	12 39	0 48	25 36	2 3	23 29	0 4	1 15	2 48	8 21	0 30	16 48	1 0	12 1	16 47	22 9	22 1	7 55		n.a.
W 9	16 12	13 25	3 30	20 10	1 40	13 6	0 45	25 38	2 6	23 29	0 4	1 14	2 48	8 22	0 30	16 48	1 0	12 1	16 47	22 10	22 2	7 52		n.a.
T 10	16 31	8 35	4 18	20 38	1 44	13 33	0 43	25 41	2 9	23 29	0 4	1 13	2 47	8 23	0 30	16 48	1 0	12 1	16 47	22 10	22 2	7 50		n.a.
F 11	16 49	3 12	4 50	21 6	1 48	14 0	0 41	25 43	2 11	23 29	0 4	1 12	2 47	8 25	0 30	16 48	1 0	12 1	16 46	22 11	22 3	7 48		n.a.
S 12	17 6	2s24	5 3	21 32	1 52	14 26	0 39	25 46	2 14	23 29	0 4	1 11	2 47	8 26	0 30	16 47	1 0	12 1	16 46	22 13	22 3	7 46		n.a.
S 13	17 24	7 52	4 56	21 57	1 56	14 52	0 37	25 49	2 17	23 29	0 3	1 10	2 47	8 27	0 30	16 47	1 0	12 2	16 46	22 14	22 4	7 43		n.a.
M14	17 41	12 50	4 29	22 21	2 0	15 17	0 35	25 52	2 19	23 28	0 3	1 9	2 46	8 29	0 30	16 47	1 0	12 2	16 46	22 16	22 4	7 41		n.a.
T 15	17 58	17 0	3 46	22 44	2 3	15 42	0 32	25 54	2 22	23 28	0 3	1 8	2 46	8 30	0 30	16 47	1 0	12 2	16 45	22 17	22 5	7 39		n.a.
W16	18 14	20 5	2 50	23 6	2 5	16 7	0 30	25 57	2 25	23 28	0 3	1 7	2 46	8 31	0 30	16 47	1 0	12 2	16 45	22 18	22 5	7 37		n.a.
T 17	18 30	21 56	1 46	23 26	2 8	16 31	0 28	26 0	2 27	23 28	0 3	1 6	2 46	8 33	0 30	16 47	1 0	12 2	16 45	22 19	22 6	7 34		n.a.
F 18	18 46	22 31	0 38	23 45	2 10	16 55	0 26	26 3	2 30	23 28	0 3	1 5	2 45	8 34	0 30	16 46	1 0	12 2	16 45	22 19	22 6	7 32		n.a.
S 19	19 1	21 53	0s30	24 2	2 11	17 18	0 23	26 6	2 33	23 28	0 3	1 4	2 45	8 35	0 30	16 46	1 0	12 2	16 44	22 19	22 7	7 30		n.a.
S 20	19 16	20 12	1 35	24 18	2 13	17 41	0 21	26 9	2 36	23 27	0 2	1 3	2 45	8 36	0 30	16 46	1 0	12 2	16 44	22 19	22 7	7 27		n.a.
M21	19 31	17 37	2 35	24 33	2 13	18 4	0 19	26 13	2 38	23 27	0 2	1 2	2 45	8 38	0 30	16 46	1 0	12 2	16 44	22 19	22 8	7 25		n.a.
T 22	19 45	14 20	3 27	24 46	2 14	18 26	0 16	26 16	2 41	23 27	0 2	1 2	2 44	8 39	0 30	16 46	1 0	12 2	16 44	22 19	22 8	7 23		n.a.
W23	19 59	10 30	4 9	24 57	2 13	18 47	0 14	26 19	2 44	23 27	0 2	1 1	2 44	8 40	0 30	16 45	1 0	12 2	16 43	22 19	22 9	7 21		n.a.
T 24	20 13	6 17	4 41	25 6	2 12	19 8	0 12	26 22	2 47	23 26	0 2	1 0	2 44	8 41	0 30	16 45	1 0	12 2	16 43	22 19	22 9	7 18		n.a.
F 25	20 26	1 48	5 0	25 14	2 11	19 28	0 9	26 25	2 49	23 26	0 2	1 0	2 44	8 42	0 30	16 45	1 0	12 2	16 43	22 20	22 10	7 16		n.a.
S 26	20 39	2n47	5 7	25 21	2 9	19 48	0 7	26 28	2 52	23 26	0 2	0 59	2 43	8 44	0 30	16 45	1 0	12 2	16 42	22 21	22 10	7 14		n.a.
S 27	20 52	7 21	5 0	25 25	2 6	20 7	0 4	26 32	2 55	23 26	0 1	0 59	2 43	8 45	0 30	16 44	1 0	12 2	16 42	22 22	22 11	7 11		n.a.
M28	21 4	11 41	4 39	25 27	2 2	20 26	0 2	26 35	2 57	23 25	0 1	0 58	2 43	8 46	0 30	16 44	1 0	12 2	16 42	22 24	22 11	7 9		n.a.
T 29	21 15	15 37	4 3	25 28	1 58	20 44	0s 0	26 38	3 0	23 25	0 1	0 58	2 43	8 47	0 30	16 44	1 0	12 2	16 41	22 25	22 12	7 7		n.a.
W30	21s26	18n53	3s15	25s27	1s53	21s 1	0s 3	26n41	3n 3	23n25	0s 1	0n57	2s42	8s48	0n30	16s43	1s 0	12s 2	16s41	22n26	22n12	7s 4		n.a.

Julian Day Number = 1676801.5, Delta T = 03h17m36s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'10, Lahiri = - 5°38'09 Julian Calendar 1 Nov. 123 BCE == Greg. Calendar 29 Oct. 123 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 123 BCE
geocentric

DECEMBER 123 BCE (-122) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 39	6♐23'59	22♊24	25♐23	4♐10	3°R52	21°R16	8°R33	23♎39	17♒28	8°R 7	18°R19	19♋56	22♓57	n.a.	T 1
F 2	4 29 35	7°25'14	5♋44	26°37	5°25	3♋36	21♊ 8	8♈32	23°42	17°29	8♈ 6	18♋16	19°53	23° 3	n.a.	F 2
S 3	4 33 32	8°26'28	19°14	27°47	6°41	3°18	21° 0	8°31	23°45	17°30	8° 6	18°D15	19°50	23°10	n.a.	S 3
S 4	4 37 28	9°27'43	2♌55	28°52	7°56	3° 0	20°53	8°30	23°47	17°31	8° 5	18°16	19°47	23°17	n.a.	S 4
M 5	4 41 25	10°28'57	16°44	29°52	9°12	2°42	20°45	8°28	23°50	17°32	8° 5	18°18	19°44	23°24	n.a.	M 5
T 6	4 45 21	11°30'12	0♍42	0♑46	10°27	2°22	20°37	8°28	23°53	17°34	8° 5	18°19	19°40	23°30	n.a.	T 6
W 7	4 49 18	12°31'27	14°47	1°32	11°43	2° 2	20°29	8°27	23°56	17°35	8° 4	18°R19	19°37	23°37	n.a.	W 7
T 8	4 53 15	13°32'41	28°59	2°11	12°58	1°42	20°21	8°26	23°59	17°36	8° 4	18°18	19°34	23°44	n.a.	T 8
F 9	4 57 11	14°33'56	13♎15	2°41	14°14	1°21	20°13	8°25	24° 1	17°37	8° 3	18°16	19°31	23°50	n.a.	F 9
S 10	5 1 8	15°35'11	27°33	3° 1	15°29	0°59	20° 5	8°25	24° 4	17°38	8° 3	18°12	19°28	23°57	n.a.	S 10
S 11	5 5 4	16°36'26	11♏47	3°R11	16°45	0°37	19°57	8°25	24° 7	17°40	8° 3	18° 7	19°25	24° 4	n.a.	S 11
M12	5 9 1	17°37'40	25°55	3° 9	18° 0	0°15	19°49	8°24	24° 9	17°41	8° 2	18° 2	19°21	24°10	n.a.	M12
T 13	5 12 57	18°38'55	9♐51	2°56	19°16	29♊52	19°41	8°24	24°12	17°42	8° 2	17°57	19°18	24°17	n.a.	T 13
W14	5 16 54	19°40'09	23°30	2°31	20°31	29°29	19°33	8°D24	24°15	17°44	8° 2	17°54	19°15	24°24	n.a.	W14
T 15	5 20 50	20°41'22	6♑52	1°54	21°46	29° 6	19°24	8°24	24°17	17°45	8° 2	17°52	19°12	24°31	n.a.	T 15
F 16	5 24 47	21°42'35	19°53	1° 7	23° 2	28°42	19°16	8°25	24°19	17°47	8° 1	17°D51	19° 9	24°37	n.a.	F 16
S 17	5 28 44	22°43'47	2♒34	0° 9	24°17	28°18	19° 8	8°25	24°22	17°48	8° 1	17°52	19° 5	24°44	n.a.	S 17
S 18	5 32 40	23°44'58	14°58	29♐ 4	25°33	27°54	19° 0	8°25	24°24	17°50	8° 1	17°54	19° 2	24°51	n.a.	S 18
M19	5 36 37	24°46'08	27° 8	27°52	26°48	27°30	18°52	8°26	24°27	17°51	8° 1	17°55	18°59	24°57	n.a.	M19
T 20	5 40 33	25°47'18	9♓ 7	26°35	28° 3	27° 6	18°44	8°27	24°29	17°53	8° 1	17°57	18°56	25° 4	n.a.	T 20
W21	5 44 30	26°48'26	21° 0	25°17	29°19	26°42	18°36	8°27	24°31	17°54	8° 1	17°58	18°53	25°11	n.a.	W21
T 22	5 48 26	27°49'33	2♈51	24° 0	0♑34	26°18	18°28	8°28	24°33	17°56	8° 1	17°R58	18°50	25°18	n.a.	T 22
F 23	5 52 23	28°50'39	14°47	22°46	1°49	25°54	18°20	8°29	24°35	17°57	8° 0	17°57	18°46	25°24	n.a.	F 23
S 24	5 56 20	29°51'44	26°50	21°37	3° 5	25°30	18°13	8°30	24°37	17°59	8° 0	17°55	18°43	25°31	n.a.	S 24
S 25	6 0 16	0♑52'48	9♉ 7	20°34	4°20	25° 7	18° 5	8°32	24°39	18° 1	8° 0	17°53	18°40	25°38	n.a.	S 25
M26	6 4 13	1°53'51	21°39	19°39	5°35	24°43	17°57	8°33	24°41	18° 2	8°D 0	17°50	18°37	25°44	n.a.	M26
T 27	6 8 9	2°54'53	4♊29	18°52	6°51	24°20	17°50	8°34	24°43	18° 4	8° 0	17°48	18°34	25°51	n.a.	T 27
W28	6 12 6	3°55'53	17°38	18°14	8° 6	23°57	17°42	8°36	24°45	18° 6	8° 0	17°46	18°31	25°58	n.a.	W28
T 29	6 16 2	4°56'53	1♋ 6	17°46	9°21	23°35	17°35	8°38	24°47	18° 8	8° 0	17°45	18°27	26° 5	n.a.	T 29
F 30	6 19 59	5°57'51	14°50	17°26	10°36	23°13	17°27	8°40	24°49	18° 9	8° 1	17°D44	18°24	26°11	n.a.	F 30
S 31	6 23 55	6♑58'49	28♋49	17♐14	11♑52	22♊51	17♊20	8♈41	24♎51	18♒11	8♈ 1	17♋45	18♋21	26♓18	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21s37	21n14	2s15	25s24	1s47	21s18	0s 5	26n44	3n 5	23n24	0s 1	0n57	2s42	8s49	0n30	16s43	1s 0	12s 2	16s41	22n26	22n13	7s 2		n.a.
F 2	21 48	22 28	1 7	25 19	1 40	21 34	0 7	26 47	3 8	23 24	0 1	0 57	2 42	8 50	0 30	16 43	1 0	12 2	16 41	22 27	22 13	7 0		n.a.
S 3	21 58	22 24	0n 5	25 13	1 31	21 50	0 10	26 50	3 10	23 23	0 1	0 57	2 41	8 51	0 30	16 42	1 0	12 2	16 40	22 27	22 13	6 57		n.a.
S 4	22 7	21 0	1 19	25 4	1 22	22 5	0 12	26 53	3 13	23 23	0 0	0 56	2 41	8 52	0 30	16 42	1 0	12 2	16 40	22 27	22 14	6 55		n.a.
M 5	22 16	18 21	2 29	24 54	1 12	22 19	0 15	26 56	3 15	23 23	0 0	0 56	2 41	8 54	0 30	16 42	1 0	12 1	16 40	22 27	22 14	6 53		n.a.
T 6	22 25	14 37	3 30	24 43	1 0	22 33	0 17	26 59	3 18	23 22	0 0	0 56	2 40	8 55	0 30	16 41	1 0	12 1	16 39	22 26	22 15	6 50		n.a.
W 7	22 33	10 3	4 20	24 30	0 48	22 46	0 19	27 2	3 20	23 22	0n 0	0 56	2 40	8 56	0 30	16 41	1 0	12 1	16 39	22 26	22 15	6 48		n.a.
T 8	22 41	4 54	4 54	24 15	0 34	22 58	0 22	27 4	3 22	23 21	0 0	0 56	2 40	8 57	0 30	16 40	1 0	12 1	16 39	22 27	22 16	6 46		n.a.
F 9	22 48	0s32	5 10	24 0	0 19	23 10	0 24	27 7	3 24	23 21	0 0	0 56	2 40	8 58	0 30	16 40	0 59	12 1	16 38	22 27	22 16	6 43		n.a.
S 10	22 55	5 56	5 8	23 43	0 3	23 20	0 26	27 9	3 27	23 21	0 1	0 56	2 39	8 59	0 30	16 40	0 59	12 1	16 38	22 27	22 17	6 41		n.a.
S 11	23 2	11 1	4 46	23 26	0n14	23 31	0 28	27 11	3 29	23 20	0 1	0 56	2 39	9 0	0 30	16 39	0 59	12 0	16 38	22 28	22 17	6 39		n.a.
M12	23 8	15 28	4 7	23 8	0 32	23 40	0 31	27 13	3 31	23 20	0 1	0 57	2 39	9 1	0 30	16 39	0 59	12 0	16 37	22 29	22 18	6 36		n.a.
T 13	23 13	19 0	3 13	22 49	0 51	23 49	0 33	27 15	3 33	23 19	0 1	0 57	2 38	9 1	0 30	16 38	0 59	12 0	16 37	22 29	22 18	6 34		n.a.
W14	23 18	21 23	2 10	22 31	1 11	23 57	0 35	27 17	3 35	23 19	0 1	0 57	2 38	9 2	0 30	16 38	0 59	12 0	16 37	22 30	22 19	6 32		n.a.
T 15	23 23	22 32	1 0	22 12	1 30	24 4	0 37	27 19	3 36	23 18	0 1	0 57	2 38	9 3	0 30	16 37	0 59	12 0	16 36	22 30	22 19	6 29		n.a.
F 16	23 27	22 24	0s11	21 53	1 49	24 11	0 39	27 20	3 38	23 18	0 1	0 58	2 37	9 4	0 30	16 37	0 59	11 59	16 36	22 30	22 19	6 27		n.a.
S 17	23 30	21 6	1 20	21 35	2 8	24 16	0 41	27 21	3 40	23 17	0 2	0 58	2 37	9 5	0 30	16 37	0 59	11 59	16 35	22 30	22 20	6 25		n.a.
S 18	23 34	18 49	2 24	21 17	2 25	24 21	0 43	27 23	3 41	23 17	0 2	0 59	2 37	9 6	0 30	16 36	0 59	11 59	16 35	22 30	22 20	6 22		n.a.
M19	23 36	15 43	3 20	21 0	2 41	24 26	0 45	27 24	3 43	23 16	0 2	0 59	2 37	9 7	0 30	16 36	0 59	11 59	16 35	22 30	22 21	6 20		n.a.
T 20	23 38	12 2	4 6	20 45	2 55	24 29	0 47	27 24	3 44	23 16	0 2	1 0	2 36	9 8	0 30	16 35	0 59	11 58	16 34	22 29	22 21	6 17		n.a.
W21	23 40	7 54	4 41	20 30	3 7	24 32	0 49	27 25	3 45	23 15	0 2	1 0	2 36	9 8	0 30	16 35	0 59	11 58	16 34	22 29	22 22	6 15		n.a.
T 22	23 41	3 30	5 5	20 18	3 17	24 34	0 51	27 26	3 46	23 14	0 2	1 1	2 36	9 9	0 30	16 34	0 59	11 58	16 34	22 29	22 22	6 13		n.a.
F 23	23 42	1n 3	5 15	20 7	3 24	24 35	0 53	27 26	3 47	23 14	0 2	1 2	2 35	9 10	0 30	16 34	0 59	11 58	16 33	22 29	22 23	6 10		n.a.
S 24	23 43	5 37	5 12	19 58	3 29	24 36	0 55	27 26	3 48	23 13	0 3	1 2	2 35	9 11	0 30	16 33	0 59	11 57	16 33	22 30	22 23	6 8		n.a.
S 25	23 42	10 3	4 54	19 52	3 31	24 35	0 57	27 26	3 49	23 13	0 3	1 3	2 35	9 11	0 30	16 33	0 59	11 57	16 33	22 30	22 24	6 6		n.a.
M26	23 42	14 9	4 22	19 47	3 31	24 34	0 59	27 26	3 50	23 12	0 3	1 4	2 34	9 12	0 30	16 32	0 59	11 57	16 32	22 30	22 24	6 3		n.a.
T 27	23 41	17 43	3 37	19 45	3 29	24 32	1 0	27 26	3 51	23 12	0 3	1 5	2 34	9 13	0 30	16 31	0 59	11 56	16 32	22 31	22 24	6 1		n.a.
W28	23 39	20 29	2 39	19 46	3 26	24 30	1 2	27 25	3 51	23 11	0 3	1 6	2 34	9 14	0 30	16 31	0 59	11 56	16 32	22 31	22 25	5 58		n.a.
T 29	23 37	22 11	1 31	19 48	3 21	24 26	1 4	27 24	3 52	23 11	0 3	1 7	2 33	9 14	0 30	16 30	0 59	11 56	16 31	22 31	22 25	5 56		n.a.
F 30	23 34	22 36	0 16	19 53	3 14	24 22	1 5	27 24	3 52	23 10	0 3	1 8	2 33	9 15	0 30	16 30	0 59	11 55	16 31	22 31	22 26	5 54		n.a.
S 31	23s31	21n37	1n 1	19s59	3n 7	24s17	1s 7	27n23	3n52	23n10	0n 4	1n 9	2s33	9s16	0n30	16s29	0s59	11s55	16s30	22n31	22n26	5s51		n.a.

Julian Day Number = 1676831.5, Delta T = 03h17m35s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'06, Lahiri = - 5°38'05 Julian Calendar 1 Dec. 123 BCE == Greg. Calendar 28 Nov. 123 BCE

The year -122 astronomical counting style corresponds to year 123 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

JANUARY 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 52	7♉59'45	12♌58	17°D11	13♉ 7	22°R30	17°R13	8♈43	24♎52	18♒13	8♈ 1	17♋45	18♋18	26♓25	n.a.	S 1
M 2	6 31 49	9° 0'40	27°14	17♐16	14°22	22♊10	17♊ 6	8°46	24°54	18°15	8° 1	17°46	18°15	26°31	n.a.	M 2
T 3	6 35 45	10° 1'35	11♍31	17°27	15°37	21°49	16°59	8°48	24°56	18°17	8° 1	17°47	18°11	26°38	n.a.	T 3
W 4	6 39 42	11° 2'28	25°49	17°46	16°52	21°30	16°52	8°50	24°57	18°19	8° 1	17°47	18° 8	26°45	n.a.	W 4
T 5	6 43 38	12° 3'20	10♎ 2	18°10	18° 8	21°11	16°45	8°53	24°59	18°21	8° 2	17°R48	18° 5	26°52	n.a.	T 5
F 6	6 47 35	13° 4'12	24° 9	18°40	19°23	20°53	16°39	8°55	25° 0	18°23	8° 2	17°47	18° 2	26°58	n.a.	F 6
S 7	6 51 31	14° 5'02	8♏ 8	19°16	20°38	20°35	16°32	8°58	25° 2	18°24	8° 2	17°47	17°59	27° 5	n.a.	S 7
S 8	6 55 28	15° 5'52	21°57	19°56	21°53	20°18	16°26	9° 1	25° 3	18°26	8° 2	17°47	17°56	27°12	n.a.	S 8
M 9	6 59 24	16° 6'40	5♐36	20°40	23° 8	20° 2	16°20	9° 3	25° 4	18°28	8° 3	17°47	17°52	27°18	n.a.	M 9
T 10	7 3 21	17° 7'27	19° 3	21°28	24°23	19°46	16°14	9° 6	25° 6	18°30	8° 3	17°47	17°49	27°25	n.a.	T 10
W11	7 7 18	18° 8'13	2♑16	22°20	25°38	19°31	16° 8	9° 9	25° 7	18°32	8° 3	17°D46	17°46	27°32	n.a.	W11
T 12	7 11 14	19° 8'57	15°16	23°15	26°53	19°17	16° 2	9°13	25° 8	18°34	8° 4	17°R47	17°43	27°39	n.a.	T 12
F 13	7 15 11	20° 9'40	28° 1	24°13	28° 9	19° 4	15°57	9°16	25° 9	18°36	8° 4	17°46	17°40	27°45	n.a.	F 13
S 14	7 19 7	21°10'21	10♒33	25°14	29°24	18°51	15°51	9°19	25°10	18°39	8° 4	17°46	17°37	27°52	n.a.	S 14
S 15	7 23 4	22°11'01	22°51	26°17	0♒39	18°40	15°46	9°23	25°11	18°41	8° 5	17°46	17°33	27°59	n.a.	S 15
M16	7 27 0	23°11'39	4♓58	27°23	1°54	18°29	15°41	9°26	25°12	18°43	8° 5	17°45	17°30	28° 5	n.a.	M16
T 17	7 30 57	24°12'15	16°57	28°30	3° 9	18°19	15°36	9°30	25°13	18°45	8° 6	17°44	17°27	28°12	n.a.	T 17
W18	7 34 53	25°12'49	28°50	29°40	4°24	18° 9	15°31	9°34	25°14	18°47	8° 6	17°43	17°24	28°19	n.a.	W18
T 19	7 38 50	26°13'21	10♈42	0♑52	5°39	18° 1	15°26	9°38	25°14	18°49	8° 7	17°43	17°21	28°26	n.a.	T 19
F 20	7 42 47	27°13'52	22°36	2° 6	6°54	17°53	15°22	9°42	25°15	18°51	8° 7	17°D42	17°17	28°32	n.a.	F 20
S 21	7 46 43	28°14'20	4♉38	3°21	8° 8	17°46	15°18	9°46	25°16	18°53	8° 8	17°42	17°14	28°39	n.a.	S 21
S 22	7 50 40	29°14'46	16°52	4°38	9°23	17°40	15°14	9°50	25°16	18°55	8° 9	17°43	17°11	28°46	n.a.	S 22
M23	7 54 36	0♒15'11	29°23	5°56	10°38	17°35	15°10	9°54	25°17	18°58	8° 9	17°44	17° 8	28°52	n.a.	M23
T 24	7 58 33	1°15'33	12♊14	7°16	11°53	17°30	15° 6	9°58	25°17	19° 0	8°10	17°45	17° 5	28°59	n.a.	T 24
W25	8 2 29	2°15'54	25°28	8°37	13° 8	17°26	15° 3	10° 3	25°18	19° 2	8°10	17°46	17° 2	29° 6	n.a.	W25
T 26	8 6 26	3°16'12	9♋ 6	10° 0	14°23	17°23	14°59	10° 7	25°18	19° 4	8°11	17°47	16°58	29°13	n.a.	T 26
F 27	8 10 22	4°16'29	23° 7	11°24	15°37	17°21	14°56	10°12	25°18	19° 6	8°12	17°R47	16°55	29°19	n.a.	F 27
S 28	8 14 19	5°16'43	7♌29	12°49	16°52	17°20	14°53	10°16	25°19	19° 9	8°12	17°46	16°52	29°26	n.a.	S 28
S 29	8 18 16	6°16'56	22° 6	14°15	18° 7	17°D19	14°50	10°21	25°19	19°11	8°13	17°45	16°49	29°33	n.a.	S 29
M30	8 22 12	7°17'06	6♍52	15°42	19°22	17°19	14°48	10°26	25°19	19°13	8°14	17°42	16°46	29°40	n.a.	M30
T 31	8 26 9	8♒17'15	21♍38	17♑11	20♒36	17♊20	14♊45	10♈31	25♎19	19♒15	8♈15	17♋39	16♋43	29♓46	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	23s28	19n16	2n15	20s 7	2n59	24s11	1s 9	27n22	3n53	23n 9	0n 4	1n10	2s33	9s16	0n30	16s29	0s59	11s54	16s30	22n31	22n27	5s49			n.a.
M 2	23 24	15 43	3 22	20 17	2 50	24 5	1 10	27 21	3 53	23 8	0 4	1 11	2 32	9 17	0 30	16 28	0 59	11 54	16 30	22 31	22 27	5 46			n.a.
T 3	23 20	11 15	4 16	20 27	2 40	23 58	1 11	27 19	3 53	23 8	0 4	1 12	2 32	9 17	0 30	16 27	0 59	11 54	16 29	22 31	22 27	5 44			n.a.
W 4	23 15	6 10	4 54	20 39	2 30	23 50	1 13	27 18	3 53	23 7	0 4	1 13	2 32	9 18	0 30	16 27	0 59	11 53	16 29	22 31	22 28	5 42			n.a.
T 5	23 9	0 48	5 14	20 51	2 20	23 41	1 14	27 17	3 52	23 7	0 4	1 15	2 31	9 18	0 30	16 26	0 59	11 53	16 29	22 31	22 28	5 39			n.a.
F 6	23 4	4s35	5 15	21 4	2 10	23 32	1 15	27 15	3 52	23 6	0 4	1 16	2 31	9 19	0 30	16 26	0 59	11 52	16 28	22 31	22 29	5 37			n.a.
S 7	22 57	9 41	4 57	21 17	1 59	23 22	1 16	27 14	3 52	23 6	0 5	1 17	2 31	9 19	0 30	16 25	0 59	11 52	16 28	22 31	22 29	5 34			n.a.
S 8	22 51	14 14	4 23	21 31	1 49	23 11	1 18	27 12	3 52	23 5	0 5	1 19	2 30	9 20	0 30	16 24	0 59	11 52	16 28	22 31	22 30	5 32			n.a.
M 9	22 43	17 59	3 33	21 45	1 38	23 0	1 19	27 10	3 51	23 5	0 5	1 20	2 30	9 20	0 30	16 24	0 59	11 51	16 27	22 31	22 30	5 30			n.a.
T 10	22 36	20 43	2 33	21 59	1 27	22 47	1 20	27 8	3 51	23 4	0 5	1 21	2 30	9 21	0 30	16 23	0 59	11 51	16 27	22 31	22 30	5 27			n.a.
W11	22 28	22 16	1 25	22 12	1 17	22 34	1 21	27 7	3 50	23 4	0 5	1 23	2 30	9 21	0 30	16 22	0 59	11 50	16 27	22 31	22 31	5 25			n.a.
T 12	22 19	22 36	0 14	22 26	1 7	22 21	1 22	27 5	3 49	23 3	0 5	1 24	2 29	9 22	0 30	16 22	0 59	11 50	16 26	22 31	22 31	5 22			n.a.
F 13	22 11	21 43	0s57	22 39	0 56	22 7	1 22	27 3	3 49	23 3	0 5	1 26	2 29	9 22	0 30	16 21	0 59	11 49	16 26	22 31	22 32	5 20			n.a.
S 14	22 1	19 46	2 3	22 51	0 46	21 52	1 23	27 1	3 48	23 2	0 6	1 28	2 29	9 22	0 30	16 21	0 59	11 49	16 25	22 31	22 32	5 18			n.a.
S 15	21 52	16 55	3 3	23 3	0 36	21 36	1 24	26 59	3 47	23 2	0 6	1 29	2 28	9 23	0 30	16 20	0 59	11 48	16 25	22 31	22 33	5 15			n.a.
M16	21 41	13 24	3 53	23 14	0 27	21 20	1 25	26 57	3 46	23 2	0 6	1 31	2 28	9 23	0 31	16 19	0 59	11 48	16 25	22 31	22 33	5 13			n.a.
T 17	21 31	9 23	4 32	23 25	0 17	21 3	1 25	26 56	3 45	23 1	0 6	1 33	2 28	9 23	0 31	16 19	0 59	11 47	16 24	22 31	22 33	5 10			n.a.
W18	21 20	5 2	5 0	23 34	0 8	20 46	1 26	26 54	3 44	23 1	0 6	1 34	2 28	9 24	0 31	16 18	0 59	11 47	16 24	22 31	22 34	5 8			n.a.
T 19	21 9	0 32	5 14	23 43	0s 1	20 28	1 26	26 52	3 43	23 0	0 6	1 36	2 27	9 24	0 31	16 17	0 59	11 46	16 24	22 31	22 34	5 5			n.a.
F 20	20 57	4n 1	5 16	23 51	0 10	20 9	1 27	26 50	3 42	23 0	0 6	1 38	2 27	9 24	0 31	16 17	0 59	11 46	16 23	22 31	22 35	5 3			n.a.
S 21	20 45	8 27	5 3	23 58	0 18	19 50	1 27	26 49	3 41	23 0	0 6	1 40	2 27	9 24	0 31	16 16	0 59	11 45	16 23	22 31	22 35	5 0			n.a.
S 22	20 32	12 39	4 37	24 4	0 26	19 30	1 27	26 47	3 40	22 59	0 7	1 42	2 27	9 25	0 31	16 15	0 59	11 45	16 23	22 31	22 35	4 58			n.a.
M23	20 19	16 23	3 57	24 9	0 34	19 10	1 28	26 45	3 39	22 59	0 7	1 44	2 26	9 25	0 31	16 14	0 59	11 44	16 22	22 31	22 36	4 56			n.a.
T 24	20 6	19 28	3 4	24 12	0 42	18 49	1 28	26 44	3 38	22 59	0 7	1 46	2 26	9 25	0 31	16 14	0 59	11 44	16 22	22 31	22 36	4 53			n.a.
W25	19 53	21 38	2 0	24 15	0 49	18 28	1 28	26 42	3 37	22 58	0 7	1 47	2 26	9 25	0 31	16 13	0 59	11 43	16 22	22 31	22 37	4 51			n.a.
T 26	19 39	22 36	0 48	24 16	0 57	18 6	1 28	26 41	3 35	22 58	0 7	1 50	2 25	9 25	0 31	16 12	0 59	11 43	16 21	22 31	22 37	4 48			n.a.
F 27	19 24	22 11	0n29	24 16	1 3	17 44	1 28	26 39	3 34	22 58	0 7	1 52	2 25	9 25	0 31	16 12	0 59	11 42	16 21	22 31	22 37	4 46			n.a.
S 28	19 10	20 19	1 47	24 15	1 10	17 21	1 28	26 38	3 33	22 58	0 7	1 54	2 25	9 25	0 31	16 11	0 59	11 41	16 21	22 31	22 38	4 43			n.a.
S 29	18 55	17 6	2 58	24 12	1 16	16 58	1 28	26 36	3 32	22 58	0 7	1 56	2 25	9 25	0 31	16 10	0 59	11 41	16 20	22 31	22 38	4 41			n.a.
M30	18 39	12 46	3 59	24 8	1 22	16 34	1 27	26 35	3 30	22 57	0 8	1 58	2 24	9 25	0 31	16 10	0 59	11 40	16 20	22 31	22 39	4 38			n.a.
T 31	18s24	7n41	4n43	24s 2	1s28	16s10	1s27	26n34	3n29	22n57	0n 8	2n 0	2s24	9s25	0n31	16s 9	0s59	11s40	16s20	22n32	22n39	4s36			n.a.

Julian Day Number = 1676862.5, Delta T = 03h17m34s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°45'01, Lahiri = - 5°38'01 Julian Calendar 1 Jan. 122 BCE == Greg. Calendar 29 Dec. 123 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

FEBRUARY 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 30 5	9♒17'22	6♎18	18♑41	21♒51	17♊21	14°R43	10♈36	25°R19	19♒18	8♈15	17°R37	16♋39	29♓53	n.a.	W 1
T 2	8 34 2	10°17'28	20°46	20°12	23° 6	17°23	14♊41	10°41	25♎19	19°20	8°16	17♋35	16°36	29°59	n.a.	T 2
F 3	8 37 58	11°17'32	4♏58	21°44	24°20	17°26	14°39	10°46	25°19	19°22	8°17	17°D34	16°33	0♈ 6	n.a.	F 3
S 4	8 41 55	12°17'34	18°53	23°17	25°35	17°30	14°38	10°51	25°19	19°24	8°18	17°34	16°30	0°13	n.a.	S 4
S 5	8 45 51	13°17'35	2♐30	24°51	26°50	17°34	14°36	10°57	25°19	19°27	8°19	17°35	16°27	0°20	n.a.	S 5
M 6	8 49 48	14°17'34	15°49	26°27	28° 4	17°39	14°35	11° 2	25°19	19°29	8°20	17°36	16°23	0°27	n.a.	M 6
T 7	8 53 45	15°17'31	28°53	28° 3	29°19	17°45	14°34	11° 7	25°18	19°31	8°20	17°38	16°20	0°33	n.a.	T 7
W 8	8 57 41	16°17'26	11♑43	29°41	0♓33	17°51	14°33	11°13	25°18	19°33	8°21	17°R39	16°17	0°40	n.a.	W 8
T 9	9 1 38	17°17'20	24°21	1♒20	1°48	17°58	14°32	11°19	25°18	19°36	8°22	17°39	16°14	0°47	n.a.	T 9
F 10	9 5 34	18°17'11	6♒48	3° 0	3° 2	18° 5	14°32	11°24	25°17	19°38	8°23	17°37	16°11	0°53	n.a.	F 10
S 11	9 9 31	19°17'01	19° 5	4°41	4°17	18°13	14°32	11°30	25°17	19°40	8°24	17°34	16° 8	1° 0	n.a.	S 11
S 12	9 13 27	20°16'48	1♓14	6°23	5°31	18°22	14°D32	11°36	25°16	19°42	8°25	17°29	16° 4	1° 7	n.a.	S 12
M13	9 17 24	21°16'33	13°15	8° 7	6°45	18°32	14°32	11°42	25°16	19°45	8°26	17°23	16° 1	1°14	n.a.	M13
T 14	9 21 20	22°16'16	25°11	9°51	8° 0	18°42	14°32	11°48	25°15	19°47	8°27	17°17	15°58	1°20	n.a.	T 14
W15	9 25 17	23°15'57	7♈ 3	11°37	9°14	18°52	14°33	11°54	25°14	19°49	8°28	17°10	15°55	1°27	n.a.	W15
T 16	9 29 14	24°15'35	18°54	13°24	10°28	19° 3	14°33	12° 0	25°14	19°52	8°29	17° 4	15°52	1°34	n.a.	T 16
F 17	9 33 10	25°15'11	0♉48	15°13	11°43	19°15	14°34	12° 6	25°13	19°54	8°30	17° 0	15°49	1°40	n.a.	F 17
S 18	9 37 7	26°14'45	12°48	17° 2	12°57	19°27	14°35	12°12	25°12	19°56	8°31	16°57	15°45	1°47	n.a.	S 18
S 19	9 41 3	27°14'16	24°59	18°53	14°11	19°40	14°37	12°18	25°11	19°58	8°32	16°D56	15°42	1°54	n.a.	S 19
M20	9 45 0	28°13'45	7♊24	20°45	15°25	19°53	14°38	12°25	25°10	20° 1	8°33	16°56	15°39	2° 1	n.a.	M20
T 21	9 48 56	29°13'12	20°10	22°38	16°40	20° 7	14°40	12°31	25° 9	20° 3	8°34	16°58	15°36	2° 7	n.a.	T 21
W22	9 52 53	0♓12'36	3♋20	24°33	17°54	20°21	14°42	12°38	25° 8	20° 5	8°35	16°59	15°33	2°14	n.a.	W22
T 23	9 56 49	1°11'58	16°57	26°29	19° 8	20°35	14°44	12°44	25° 7	20° 7	8°37	17°R 0	15°29	2°21	n.a.	T 23
F 24	10 0 46	2°11'18	1♌ 2	28°25	20°22	20°51	14°46	12°51	25° 6	20°10	8°38	16°59	15°26	2°27	n.a.	F 24
S 25	10 4 43	3°10'35	15°34	0♓24	21°36	21° 6	14°48	12°57	25° 5	20°12	8°39	16°56	15°23	2°34	n.a.	S 25
S 26	10 8 39	4° 9'50	0♍27	2°23	22°50	21°22	14°51	13° 4	25° 3	20°14	8°40	16°51	15°20	2°41	n.a.	S 26
M27	10 12 36	5° 9'02	15°34	4°23	24° 4	21°39	14°54	13°10	25° 2	20°16	8°41	16°44	15°17	2°48	n.a.	M27
T 28	10 16 32	6♓ 8'13	0♎44	6♓24	25♓18	21♊56	14♊57	13♈17	25♎ 1	20♒19	8♈42	16♋37	15♋14	2♈54	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s 8	2n11	5n 9	23s55	1s33	15s45	1s27	26n33	3n28	22n57	0n 8	2n 2	2s24	9s25	0n31	16s 8	0s59	11s39	16s20	22n32	22n39	4s33		n.a.
T 2	17 52	3s21	5 14	23 47	1 38	15 20	1 26	26 32	3 26	22 57	0 8	2 4	2 24	9 25	0 31	16 7	0 59	11 38	16 19	22 32	22 40	4 31		n.a.
F 3	17 35	8 37	5 0	23 37	1 43	14 54	1 26	26 30	3 25	22 57	0 8	2 7	2 24	9 25	0 31	16 7	0 59	11 38	16 19	22 33	22 40	4 29		n.a.
S 4	17 18	13 19	4 29	23 26	1 47	14 28	1 25	26 29	3 24	22 57	0 8	2 9	2 23	9 25	0 31	16 6	0 59	11 37	16 19	22 33	22 41	4 26		n.a.
S 5	17 1	17 15	3 43	23 13	1 51	14 2	1 25	26 29	3 22	22 57	0 8	2 11	2 23	9 25	0 31	16 5	0 59	11 37	16 18	22 32	22 41	4 24		n.a.
M 6	16 44	20 12	2 46	22 58	1 54	13 35	1 24	26 28	3 21	22 57	0 8	2 14	2 23	9 25	0 31	16 5	0 59	11 36	16 18	22 32	22 41	4 21		n.a.
T 7	16 26	22 1	1 41	22 42	1 57	13 8	1 23	26 27	3 19	22 57	0 8	2 16	2 23	9 25	0 31	16 4	0 59	11 36	16 18	22 32	22 42	4 19		n.a.
W 8	16 8	22 39	0 32	22 24	2 0	12 41	1 22	26 26	3 18	22 57	0 9	2 18	2 22	9 25	0 31	16 3	0 59	11 35	16 17	22 32	22 42	4 16		n.a.
T 9	15 50	22 5	0s37	22 4	2 2	12 13	1 21	26 25	3 17	22 57	0 9	2 21	2 22	9 25	0 31	16 2	0 59	11 34	16 17	22 32	22 43	4 14		n.a.
F 10	15 31	20 26	1 43	21 43	2 4	11 45	1 21	26 25	3 15	22 57	0 9	2 23	2 22	9 25	0 31	16 2	0 59	11 34	16 17	22 32	22 43	4 11		n.a.
S 11	15 12	17 51	2 43	21 20	2 6	11 17	1 20	26 24	3 14	22 57	0 9	2 26	2 22	9 24	0 31	16 1	0 59	11 33	16 17	22 32	22 43	4 9		n.a.
S 12	14 53	14 31	3 36	20 56	2 7	10 48	1 18	26 23	3 13	22 57	0 9	2 28	2 21	9 24	0 31	16 0	0 59	11 32	16 16	22 33	22 44	4 6		n.a.
M13	14 34	10 36	4 18	20 30	2 7	10 20	1 17	26 23	3 11	22 57	0 9	2 31	2 21	9 24	0 31	16 0	0 59	11 32	16 16	22 34	22 44	4 4		n.a.
T 14	14 15	6 20	4 48	20 2	2 8	9 50	1 16	26 22	3 10	22 57	0 9	2 33	2 21	9 24	0 31	15 59	0 59	11 31	16 16	22 35	22 45	4 1		n.a.
W15	13 55	1 50	5 6	19 32	2 7	9 21	1 15	26 22	3 8	22 57	0 9	2 36	2 21	9 23	0 31	15 58	0 59	11 31	16 16	22 36	22 45	3 59		n.a.
T 16	13 35	2n43	5 10	19 0	2 7	8 51	1 14	26 21	3 7	22 58	0 9	2 38	2 21	9 23	0 31	15 57	0 59	11 30	16 15	22 36	22 45	3 56		n.a.
F 17	13 15	7 11	5 2	18 27	2 5	8 22	1 12	26 21	3 6	22 58	0 10	2 41	2 20	9 23	0 31	15 57	0 59	11 29	16 15	22 37	22 46	3 54		n.a.
S 18	12 55	11 25	4 40	17 52	2 4	7 52	1 11	26 21	3 4	22 58	0 10	2 44	2 20	9 22	0 31	15 56	0 59	11 29	16 15	22 37	22 46	3 51		n.a.
S 19	12 34	15 16	4 5	17 15	2 1	7 21	1 9	26 20	3 3	22 58	0 10	2 46	2 20	9 22	0 31	15 55	0 59	11 28	16 15	22 37	22 46	3 49		n.a.
M20	12 13	18 32	3 18	16 37	1 59	6 51	1 8	26 20	3 2	22 59	0 10	2 49	2 20	9 22	0 31	15 55	0 59	11 27	16 14	22 37	22 47	3 46		n.a.
T 21	11 52	21 1	2 20	15 56	1 55	6 20	1 6	26 20	3 0	22 59	0 10	2 52	2 20	9 21	0 31	15 54	0 59	11 27	16 14	22 37	22 47	3 44		n.a.
W22	11 31	22 27	1 13	15 14	1 52	5 49	1 4	26 20	2 59	22 59	0 10	2 54	2 20	9 21	0 31	15 53	0 59	11 26	16 14	22 37	22 48	3 41		n.a.
T 23	11 10	22 37	0 0	14 31	1 47	5 19	1 3	26 19	2 58	22 59	0 10	2 57	2 19	9 21	0 31	15 52	0 59	11 25	16 14	22 37	22 48	3 39		n.a.
F 24	10 49	21 23	1n15	13 45	1 42	4 48	1 1	26 19	2 56	23 0	0 10	3 0	2 19	9 20	0 31	15 52	0 59	11 25	16 13	22 37	22 48	3 36		n.a.
S 25	10 27	18 42	2 28	12 58	1 37	4 16	0 59	26 19	2 55	23 0	0 10	3 2	2 19	9 20	0 31	15 51	0 59	11 24	16 13	22 37	22 49	3 34		n.a.
S 26	10 6	14 45	3 32	12 9	1 31	3 45	0 57	26 19	2 54	23 1	0 10	3 5	2 19	9 19	0 31	15 50	0 59	11 24	16 13	22 38	22 49	3 31		n.a.
M27	9 44	9 47	4 23	11 19	1 24	3 14	0 55	26 18	2 52	23 1	0 11	3 8	2 19	9 19	0 31	15 50	0 59	11 23	16 13	22 39	22 49	3 29		n.a.
T 28	9s22	4n12	4n55	10s27	1s17	2s42	0s53	26n18	2n51	23n 1	0n11	3n11	2s18	9s18	0n31	15s49	0s59	11s22	16s13	22n40	22n50	3s26		n.a.

Julian Day Number = 1676893.5, Delta T = 03h17m33s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'57, Lahiri = - 5°37'57 Julian Calendar 1 Feb. 122 BCE == Greg. Calendar 29 Jan. 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

MARCH 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 20 29	7♓ 7'21	15♎49	8♓26	26♓32	22♊13	15♊ 0	13♈24	24°R59	20♒21	8♈44	16°R29	15♋10	3♈ 1	n.a.	W 1
T 2	10 24 25	8° 6'28	0♏37	10°29	27°45	22°31	15° 3	13°31	24♎58	20°23	8°45	16♋23	15° 7	3° 8	n.a.	T 2
F 3	10 28 22	9° 5'33	15° 4	12°32	28°59	22°49	15° 7	13°38	24°57	20°25	8°46	16°19	15° 4	3°15	n.a.	F 3
S 4	10 32 18	10° 4'36	29° 6	14°36	0♈13	23° 7	15°10	13°45	24°55	20°27	8°47	16°16	15° 1	3°21	n.a.	S 4
S 5	10 36 15	11° 3'37	12♐43	16°40	1°27	23°26	15°14	13°52	24°54	20°29	8°48	16°D16	14°58	3°28	n.a.	S 5
M 6	10 40 11	12° 2'36	25°56	18°43	2°40	23°45	15°18	13°59	24°52	20°32	8°50	16°16	14°54	3°35	n.a.	M 6
T 7	10 44 8	13° 1'34	8♑49	20°47	3°54	24° 5	15°22	14° 6	24°50	20°34	8°51	16°17	14°51	3°41	n.a.	T 7
W 8	10 48 5	14° 0'30	21°24	22°50	5° 8	24°25	15°27	14°13	24°49	20°36	8°52	16°R17	14°48	3°48	n.a.	W 8
T 9	10 52 1	14°59'24	3♒47	24°51	6°21	24°45	15°31	14°20	24°47	20°38	8°53	16°16	14°45	3°55	n.a.	T 9
F 10	10 55 58	15°58'15	15°59	26°52	7°35	25° 6	15°36	14°27	24°45	20°40	8°55	16°12	14°42	4° 2	n.a.	F 10
S 11	10 59 54	16°57'05	28° 4	28°51	8°49	25°27	15°41	14°34	24°43	20°42	8°56	16° 5	14°39	4° 8	n.a.	S 11
S 12	11 3 51	17°55'53	10♓ 3	0♈47	10° 2	25°48	15°46	14°42	24°42	20°44	8°57	15°56	14°35	4°15	n.a.	S 12
M13	11 7 47	18°54'39	21°59	2°42	11°16	26°10	15°51	14°49	24°40	20°46	8°59	15°44	14°32	4°22	n.a.	M13
T 14	11 11 44	19°53'22	3♈51	4°33	12°29	26°32	15°56	14°56	24°38	20°48	9° 0	15°32	14°29	4°28	n.a.	T 14
W15	11 15 40	20°52'04	15°43	6°22	13°42	26°54	16° 2	15° 4	24°36	20°50	9° 1	15°20	14°26	4°35	n.a.	W15
T 16	11 19 37	21°50'43	27°35	8° 7	14°56	27°17	16° 7	15°11	24°34	20°52	9° 2	15° 8	14°23	4°42	n.a.	T 16
F 17	11 23 33	22°49'20	9♉31	9°48	16° 9	27°40	16°13	15°19	24°32	20°54	9° 4	14°59	14°20	4°49	n.a.	F 17
S 18	11 27 30	23°47'55	21°31	11°26	17°22	28° 3	16°19	15°26	24°30	20°56	9° 5	14°52	14°16	4°55	n.a.	S 18
S 19	11 31 27	24°46'28	3♊41	12°59	18°36	28°27	16°25	15°33	24°28	20°58	9° 6	14°47	14°13	5° 2	n.a.	S 19
M20	11 35 23	25°44'59	16° 5	14°28	19°49	28°50	16°32	15°41	24°26	21° 0	9° 8	14°45	14°10	5° 9	n.a.	M20
T 21	11 39 20	26°43'27	28°46	15°52	21° 2	29°15	16°38	15°48	24°24	21° 2	9° 9	14°D45	14° 7	5°16	n.a.	T 21
W22	11 43 16	27°41'53	11♋49	17°12	22°15	29°39	16°45	15°56	24°22	21° 4	9°10	14°R45	14° 4	5°22	n.a.	W22
T 23	11 47 13	28°40'17	25°19	18°27	23°28	0♋ 3	16°51	16° 4	24°20	21° 6	9°12	14°45	14° 0	5°29	n.a.	T 23
F 24	11 51 9	29°38'39	9♌17	19°36	24°41	0°28	16°58	16°11	24°17	21° 8	9°13	14°43	13°57	5°36	n.a.	F 24
S 25	11 55 6	0♈36'58	23°44	20°41	25°54	0°53	17° 5	16°19	24°15	21°10	9°15	14°39	13°54	5°42	n.a.	S 25
S 26	11 59 2	1°35'16	8♍37	21°40	27° 7	1°19	17°12	16°27	24°13	21°12	9°16	14°32	13°51	5°49	n.a.	S 26
M27	12 2 59	2°33'31	23°49	22°35	28°20	1°44	17°20	16°34	24°11	21°14	9°17	14°22	13°48	5°56	n.a.	M27
T 28	12 6 56	3°31'44	9♎10	23°23	29°33	2°10	17°27	16°42	24° 8	21°15	9°19	14°12	13°45	6° 3	n.a.	T 28
W29	12 10 52	4°29'55	24°28	24° 7	0♉46	2°36	17°35	16°50	24° 6	21°17	9°20	14° 1	13°41	6° 9	n.a.	W29
T 30	12 14 49	5°28'05	9♏32	24°44	1°58	3° 2	17°42	16°57	24° 4	21°19	9°21	13°52	13°38	6°16	n.a.	T 30
F 31	12 18 45	6♈26'13	24♏13	25♈17	3♉11	3♋28	17♊50	17♈ 5	24♎ 1	21♒21	9♈23	13♋45	13♋35	6♈23	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	9s 0	1s35	5n 7	9s34	1s 9	2s11	0s51	26n18	2n50	23n 2	0n11	3n14	2s18	9s18	0n31	15s48	0s59	11s22	16s12	22n41	22n50	3s24			n.a.
T 2	8 37	7 11	4 57	8 40	1 1	1 39	0 49	26 18	2 48	23 2	0 11	3 16	2 18	9 17	0 31	15 48	0 59	11 21	16 12	22 41	22 50	3 21			n.a.
F 3	8 15	12 15	4 29	7 44	0 52	1 8	0 47	26 18	2 47	23 3	0 11	3 19	2 18	9 17	0 31	15 47	0 59	11 20	16 12	22 42	22 51	3 19			n.a.
S 4	7 53	16 31	3 46	6 48	0 43	0 36	0 45	26 17	2 46	23 3	0 11	3 22	2 18	9 16	0 31	15 46	0 59	11 20	16 12	22 42	22 51	3 16			n.a.
S 5	7 30	19 46	2 50	5 50	0 33	0 4	0 43	26 17	2 45	23 4	0 11	3 25	2 18	9 15	0 31	15 46	0 59	11 19	16 12	22 42	22 52	3 14			n.a.
M 6	7 7	21 52	1 47	4 52	0 23	0n27	0 41	26 17	2 43	23 4	0 11	3 28	2 18	9 15	0 31	15 45	0 59	11 18	16 12	22 42	22 52	3 11			n.a.
T 7	6 44	22 45	0 40	3 53	0 13	0 59	0 38	26 16	2 42	23 5	0 11	3 31	2 17	9 14	0 31	15 44	0 59	11 18	16 11	22 42	22 52	3 8			n.a.
W 8	6 22	22 26	0s27	2 54	0 2	1 31	0 36	26 16	2 41	23 6	0 11	3 34	2 17	9 14	0 31	15 44	0 59	11 17	16 11	22 42	22 53	3 6			n.a.
T 9	5 59	21 1	1 32	1 55	0n10	2 2	0 34	26 16	2 40	23 6	0 11	3 37	2 17	9 13	0 31	15 43	0 59	11 17	16 11	22 42	22 53	3 3			n.a.
F 10	5 36	18 38	2 32	0 56	0 21	2 34	0 31	26 15	2 38	23 7	0 12	3 40	2 17	9 12	0 31	15 42	1 0	11 16	16 11	22 43	22 53	3 1			n.a.
S 11	5 13	15 27	3 24	0n 2	0 33	3 5	0 29	26 15	2 37	23 7	0 12	3 42	2 17	9 12	0 31	15 42	1 0	11 15	16 11	22 44	22 54	2 58			n.a.
S 12	4 49	11 40	4 6	1 0	0 44	3 37	0 26	26 14	2 36	23 8	0 12	3 45	2 17	9 11	0 31	15 41	1 0	11 15	16 11	22 45	22 54	2 56			n.a.
M13	4 26	7 27	4 37	1 56	0 56	4 8	0 24	26 14	2 35	23 9	0 12	3 48	2 17	9 10	0 31	15 40	1 0	11 14	16 11	22 46	22 54	2 53			n.a.
T 14	4 3	2 58	4 56	2 52	1 8	4 40	0 21	26 13	2 33	23 9	0 12	3 51	2 16	9 10	0 32	15 40	1 0	11 13	16 10	22 48	22 55	2 51			n.a.
W15	3 40	1n37	5 2	3 46	1 19	5 11	0 19	26 13	2 32	23 10	0 12	3 54	2 16	9 9	0 32	15 39	1 0	11 13	16 10	22 49	22 55	2 48			n.a.
T 16	3 16	6 9	4 55	4 38	1 30	5 42	0 16	26 12	2 31	23 11	0 12	3 57	2 16	9 8	0 32	15 38	1 0	11 12	16 10	22 50	22 55	2 46			n.a.
F 17	2 53	10 28	4 35	5 28	1 41	6 13	0 13	26 11	2 30	23 11	0 12	4 0	2 16	9 7	0 32	15 38	1 0	11 12	16 10	22 51	22 56	2 43			n.a.
S 18	2 29	14 26	4 3	6 16	1 51	6 44	0 11	26 10	2 29	23 12	0 12	4 3	2 16	9 7	0 32	15 37	1 0	11 11	16 10	22 52	22 56	2 40			n.a.
S 19	2 6	17 52	3 20	7 2	2 1	7 15	0 8	26 10	2 28	23 13	0 12	4 6	2 16	9 6	0 32	15 37	1 0	11 10	16 10	22 53	22 56	2 38			n.a.
M20	1 42	20 33	2 26	7 46	2 10	7 45	0 5	26 9	2 27	23 13	0 12	4 9	2 16	9 5	0 32	15 36	1 0	11 10	16 10	22 53	22 57	2 35			n.a.
T 21	1 19	22 18	1 24	8 27	2 19	8 15	0 3	26 8	2 25	23 14	0 12	4 12	2 16	9 4	0 32	15 35	1 0	11 9	16 10	22 53	22 57	2 33			n.a.
W22	0 56	22 55	0 16	9 5	2 27	8 46	0n 0	26 7	2 24	23 15	0 13	4 15	2 16	9 4	0 32	15 35	1 0	11 9	16 10	22 53	22 57	2 30			n.a.
T 23	0 32	22 14	0n56	9 41	2 34	9 16	0 3	26 6	2 23	23 16	0 13	4 18	2 16	9 3	0 32	15 34	1 0	11 8	16 9	22 53	22 58	2 28			n.a.
F 24	0 9	20 9	2 6	10 14	2 41	9 45	0 6	26 5	2 22	23 16	0 13	4 21	2 15	9 2	0 32	15 34	1 0	11 7	16 9	22 53	22 58	2 25			n.a.
S 25	0n15	16 45	3 11	10 44	2 46	10 15	0 8	26 3	2 21	23 17	0 13	4 24	2 15	9 1	0 32	15 33	1 0	11 7	16 9	22 54	22 58	2 23			n.a.
S 26	0 38	12 12	4 4	11 11	2 51	10 44	0 11	26 2	2 20	23 18	0 13	4 27	2 15	9 0	0 32	15 32	1 0	11 6	16 9	22 54	22 59	2 20			n.a.
M27	1 2	6 47	4 42	11 34	2 55	11 13	0 14	26 1	2 19	23 19	0 13	4 30	2 15	8 59	0 32	15 32	1 0	11 6	16 9	22 55	22 59	2 17			n.a.
T 28	1 25	0 55	5 0	11 55	2 57	11 42	0 17	25 59	2 18	23 20	0 13	4 33	2 15	8 59	0 32	15 31	1 0	11 5	16 9	22 57	22 59	2 15			n.a.
W29	1 48	5s 0	4 56	12 13	2 59	12 10	0 20	25 58	2 17	23 20	0 13	4 36	2 15	8 58	0 32	15 31	1 0	11 4	16 9	22 58	23 0	2 12			n.a.
T 30	2 12	10 32	4 31	12 28	2 59	12 39	0 22	25 56	2 16	23 21	0 13	4 40	2 15	8 57	0 32	15 30	1 0	11 4	16 9	22 59	23 0	2 10			n.a.
F 31	2n35	15s20	3n50	12n39	2n59	13n 6	0n25	25n54	2n14	23n22	0n13	4n43	2s15	8s56	0n32	15s30	1s 0	11s 3	16s 9	22n59	23n 0	2s 7			n.a.

Julian Day Number = 1676921.5, Delta T = 03h17m33s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'53, Lahiri = - 5°37'53 Julian Calendar 1 March 122 BCE == Greg. Calendar 26 Feb. 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

APRIL 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 22 42	7♈24'20	8♐26	25♈44	4♉24	3♋55	17♊58	17♈13	23°R59	21♒22	9♈24	13°R40	13♋32	6♈29	n.a.	S 1
S 2	12 26 38	8°22'25	22°11	26° 5	5°36	4°22	18° 6	17°20	23♎57	21°24	9°25	13♋38	13°29	6°36	n.a.	S 2
M 3	12 30 35	9°20'29	5♑27	26°21	6°49	4°49	18°14	17°28	23°54	21°26	9°27	13°37	13°26	6°43	n.a.	M 3
T 4	12 34 31	10°18'31	18°19	26°31	8° 1	5°16	18°22	17°36	23°52	21°27	9°28	13°37	13°22	6°50	n.a.	T 4
W 5	12 38 28	11°16'32	0♒50	26°R36	9°14	5°44	18°31	17°44	23°49	21°29	9°30	13°36	13°19	6°56	n.a.	W 5
T 6	12 42 25	12°14'31	13° 7	26°36	10°26	6°11	18°39	17°52	23°47	21°31	9°31	13°34	13°16	7° 3	n.a.	T 6
F 7	12 46 21	13°12'29	25°11	26°30	11°39	6°39	18°48	17°59	23°45	21°32	9°32	13°29	13°13	7°10	n.a.	F 7
S 8	12 50 18	14°10'25	7♓ 9	26°20	12°51	7° 7	18°57	18° 7	23°42	21°34	9°34	13°21	13°10	7°17	n.a.	S 8
S 9	12 54 14	15° 8'20	19° 2	26° 5	14° 3	7°35	19° 6	18°15	23°40	21°35	9°35	13°11	13° 6	7°23	n.a.	S 9
M10	12 58 11	16° 6'13	0♈54	25°46	15°16	8° 4	19°15	18°23	23°37	21°37	9°36	12°58	13° 3	7°30	n.a.	M10
T 11	13 2 7	17° 4'05	12°46	25°23	16°28	8°32	19°24	18°31	23°35	21°38	9°38	12°44	13° 0	7°37	n.a.	T 11
W12	13 6 4	18° 1'55	24°39	24°57	17°40	9° 1	19°33	18°39	23°32	21°40	9°39	12°30	12°57	7°43	n.a.	W12
T 13	13 10 0	18°59'43	6♉35	24°28	18°52	9°30	19°42	18°46	23°30	21°41	9°40	12°17	12°54	7°50	n.a.	T 13
F 14	13 13 57	19°57'30	18°36	23°56	20° 4	9°59	19°52	18°54	23°27	21°43	9°42	12° 6	12°51	7°57	n.a.	F 14
S 15	13 17 53	20°55'16	0♊43	23°23	21°16	10°28	20° 1	19° 2	23°25	21°44	9°43	11°57	12°47	8° 4	n.a.	S 15
S 16	13 21 50	21°53'00	12°58	22°48	22°28	10°58	20°11	19°10	23°22	21°45	9°45	11°52	12°44	8°10	n.a.	S 16
M17	13 25 47	22°50'42	25°25	22°13	23°40	11°27	20°21	19°18	23°20	21°47	9°46	11°49	12°41	8°17	n.a.	M17
T 18	13 29 43	23°48'22	8♋ 8	21°37	24°52	11°57	20°30	19°25	23°17	21°48	9°47	11°D48	12°38	8°24	n.a.	T 18
W19	13 33 40	24°46'01	21° 9	21° 2	26° 3	12°27	20°40	19°33	23°15	21°49	9°49	11°R48	12°35	8°30	n.a.	W19
T 20	13 37 36	25°43'38	4♌33	20°29	27°15	12°57	20°50	19°41	23°12	21°50	9°50	11°48	12°31	8°37	n.a.	T 20
F 21	13 41 33	26°41'14	18°22	19°57	28°27	13°27	21° 0	19°49	23°10	21°52	9°51	11°46	12°28	8°44	n.a.	F 21
S 22	13 45 29	27°38'48	2♍38	19°27	29°38	13°58	21°11	19°57	23° 7	21°53	9°53	11°43	12°25	8°51	n.a.	S 22
S 23	13 49 26	28°36'20	17°19	19° 0	0♊50	14°28	21°21	20° 4	23° 5	21°54	9°54	11°37	12°22	8°57	n.a.	S 23
M24	13 53 22	29°33'51	2♎20	18°37	2° 1	14°59	21°31	20°12	23° 2	21°55	9°55	11°28	12°19	9° 4	n.a.	M24
T 25	13 57 19	0♉31'20	17°33	18°17	3°13	15°29	21°42	20°20	23° 0	21°56	9°56	11°19	12°16	9°11	n.a.	T 25
W26	14 1 16	1°28'48	2♏48	18° 0	4°24	16° 0	21°52	20°28	22°57	21°57	9°58	11° 9	12°12	9°18	n.a.	W26
T 27	14 5 12	2°26'15	17°53	17°48	5°35	16°31	22° 3	20°35	22°55	21°58	9°59	11° 0	12° 9	9°24	n.a.	T 27
F 28	14 9 9	3°23'41	2♐39	17°40	6°47	17° 2	22°14	20°43	22°52	21°59	10° 0	10°53	12° 6	9°31	n.a.	F 28
S 29	14 13 5	4°21'06	16°59	17°D36	7°58	17°34	22°25	20°51	22°50	22° 0	10° 2	10°48	12° 3	9°38	n.a.	S 29
S 30	14 17 2	5♉18'31	0♑50	17♈37	9♊ 9	18♋ 5	22♊35	20♈58	22♎47	22♒ 1	10♈ 3	10♋46	12♋ 0	9♈44	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2n58	19s 5	2n54	12n48	2n57	13n34	0n28	25n52	2n13	23n23	0n13	4n46	2s15	8s55	0n32	15s29	1s 0	11s 3	16s 9	23n 0	23n 1	2s 5		n.a.
S 2	3 21	21 38	1 51	12 53	2 54	14 1	0 31	25 51	2 12	23 24	0 13	4 49	2 15	8 54	0 32	15 29	1 0	11 2	16 9	23 0	23 1	2 2		n.a.
M 3	3 45	22 53	0 43	12 55	2 50	14 28	0 34	25 49	2 11	23 24	0 13	4 52	2 15	8 53	0 32	15 28	1 0	11 2	16 9	23 0	23 1	1 59		n.a.
T 4	4 8	22 51	0s25	12 54	2 45	14 55	0 36	25 46	2 10	23 25	0 14	4 55	2 15	8 52	0 32	15 28	1 0	11 1	16 9	23 0	23 2	1 57		n.a.
W 5	4 31	21 39	1 30	12 49	2 38	15 21	0 39	25 44	2 9	23 26	0 14	4 58	2 15	8 52	0 32	15 27	1 0	11 0	16 9	23 0	23 2	1 54		n.a.
T 6	4 53	19 27	2 29	12 42	2 30	15 47	0 42	25 42	2 8	23 27	0 14	5 1	2 15	8 51	0 32	15 27	1 0	11 0	16 9	23 1	23 2	1 52		n.a.
F 7	5 16	16 25	3 21	12 32	2 21	16 12	0 45	25 40	2 7	23 28	0 14	5 4	2 15	8 50	0 32	15 26	1 0	10 59	16 9	23 1	23 3	1 49		n.a.
S 8	5 39	12 44	4 3	12 18	2 11	16 38	0 48	25 37	2 6	23 28	0 14	5 7	2 15	8 49	0 32	15 26	1 0	10 59	16 9	23 2	23 3	1 46		n.a.
S 9	6 2	8 34	4 34	12 2	2 0	17 2	0 50	25 34	2 5	23 29	0 14	5 10	2 14	8 48	0 32	15 25	1 0	10 58	16 9	23 3	23 3	1 44		n.a.
M10	6 24	4 6	4 53	11 44	1 47	17 26	0 53	25 32	2 4	23 30	0 14	5 13	2 14	8 47	0 32	15 25	1 0	10 58	16 9	23 4	23 4	1 41		n.a.
T 11	6 47	0n30	4 59	11 23	1 34	17 50	0 56	25 29	2 3	23 31	0 14	5 16	2 14	8 46	0 32	15 24	1 1	10 57	16 9	23 6	23 4	1 39		n.a.
W12	7 9	5 7	4 53	11 0	1 19	18 14	0 58	25 26	2 2	23 32	0 14	5 19	2 14	8 45	0 32	15 24	1 1	10 57	16 9	23 7	23 4	1 36		n.a.
T 13	7 31	9 34	4 33	10 35	1 4	18 36	1 1	25 23	2 1	23 32	0 14	5 22	2 14	8 44	0 32	15 23	1 1	10 56	16 9	23 8	23 5	1 34		n.a.
F 14	7 53	13 41	4 2	10 8	0 48	18 59	1 4	25 20	2 0	23 33	0 14	5 25	2 14	8 43	0 32	15 23	1 1	10 56	16 9	23 9	23 5	1 31		n.a.
S 15	8 15	17 17	3 19	9 40	0 32	19 21	1 6	25 16	1 59	23 34	0 14	5 28	2 14	8 42	0 32	15 23	1 1	10 55	16 9	23 10	23 5	1 28		n.a.
S 16	8 37	20 12	2 26	9 12	0 15	19 42	1 9	25 13	1 58	23 35	0 14	5 31	2 14	8 41	0 32	15 22	1 1	10 55	16 9	23 10	23 6	1 26		n.a.
M17	8 59	22 12	1 26	8 42	0s 2	20 3	1 12	25 10	1 58	23 36	0 15	5 34	2 14	8 40	0 32	15 22	1 1	10 54	16 9	23 11	23 6	1 23		n.a.
T 18	9 20	23 8	0 19	8 13	0 19	20 24	1 14	25 6	1 57	23 36	0 15	5 37	2 14	8 39	0 32	15 21	1 1	10 54	16 9	23 11	23 6	1 20		n.a.
W19	9 42	22 50	0n49	7 44	0 37	20 44	1 17	25 2	1 56	23 37	0 15	5 40	2 14	8 39	0 32	15 21	1 1	10 53	16 9	23 11	23 6	1 18		n.a.
T 20	10 3	21 14	1 57	7 16	0 53	21 3	1 19	24 58	1 55	23 38	0 15	5 43	2 14	8 38	0 32	15 21	1 1	10 53	16 9	23 11	23 7	1 15		n.a.
F 21	10 24	18 21	3 1	6 48	1 10	21 22	1 21	24 54	1 54	23 39	0 15	5 46	2 14	8 37	0 32	15 20	1 1	10 53	16 9	23 11	23 7	1 13		n.a.
S 22	10 45	14 18	3 55	6 22	1 26	21 40	1 24	24 50	1 53	23 40	0 15	5 49	2 14	8 36	0 32	15 20	1 1	10 52	16 9	23 11	23 7	1 10		n.a.
S 23	11 6	9 17	4 35	5 58	1 41	21 58	1 26	24 46	1 52	23 40	0 15	5 52	2 14	8 35	0 31	15 20	1 1	10 52	16 10	23 12	23 8	1 7		n.a.
M24	11 27	3 36	4 58	5 35	1 56	22 15	1 28	24 42	1 51	23 41	0 15	5 55	2 14	8 34	0 31	15 19	1 1	10 51	16 10	23 12	23 8	1 5		n.a.
T 25	11 47	2s21	5 0	5 15	2 10	22 31	1 31	24 37	1 50	23 42	0 15	5 58	2 14	8 33	0 31	15 19	1 1	10 51	16 10	23 13	23 8	1 2		n.a.
W26	12 7	8 11	4 41	4 57	2 22	22 47	1 33	24 33	1 49	23 43	0 15	6 1	2 14	8 32	0 31	15 19	1 1	10 50	16 10	23 14	23 9	1 0		n.a.
T 27	12 27	13 29	4 2	4 41	2 34	23 2	1 35	24 28	1 48	23 43	0 15	6 3	2 14	8 31	0 31	15 18	1 1	10 50	16 10	23 15	23 9	0 57		n.a.
F 28	12 47	17 51	3 8	4 28	2 45	23 17	1 37	24 23	1 47	23 44	0 15	6 6	2 14	8 30	0 31	15 18	1 1	10 50	16 10	23 15	23 9	0 54		n.a.
S 29	13 7	21 1	2 3	4 18	2 55	23 31	1 39	24 18	1 47	23 45	0 15	6 9	2 14	8 29	0 31	15 18	1 1	10 49	16 10	23 16	23 9	0 52		n.a.
S 30	13n26	22s50	0n53	4n10	3s 4	23n44	1n41	24n13	1n46	23n45	0n16	6n12	2s14	8s28	0n31	15s17	1s 1	10s49	16s10	23n16	23n10	0s49		n.a.

Julian Day Number = 1676952.5, Delta T = 03h17m32s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'49, Lahiri = - 5°37'49 Julian Calendar 1 Apr. 122 BCE == Greg. Calendar 29 March 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

MAY 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 20 58	6♉15'54	14♋13	17♈42	10♊20	18♋37	22♊46	21♈ 6	22°R45	22♒ 2	10♈ 4	10°D46	11♋57	9♈51	n.a.	M 1
T 2	14 24 55	7°13'17	27° 9	17°52	11°31	19° 8	22°57	21°14	22♎42	22° 3	10° 5	10♋46	11°53	9°58	n.a.	T 2
W 3	14 28 51	8°10'39	9♒43	18° 7	12°42	19°40	23° 9	21°21	22°40	22° 4	10° 7	10°R47	11°50	10° 5	n.a.	W 3
T 4	14 32 48	9° 8'00	22° 0	18°25	13°52	20°12	23°20	21°29	22°38	22° 5	10° 8	10°46	11°47	10°11	n.a.	T 4
F 5	14 36 45	10° 5'20	4♓ 4	18°48	15° 3	20°44	23°31	21°37	22°35	22° 6	10° 9	10°43	11°44	10°18	n.a.	F 5
S 6	14 40 41	11° 2'40	15°59	19°16	16°14	21°16	23°42	21°44	22°33	22° 6	10°10	10°38	11°41	10°25	n.a.	S 6
S 7	14 44 38	11°59'59	27°51	19°48	17°25	21°48	23°54	21°52	22°31	22° 7	10°11	10°31	11°37	10°32	n.a.	S 7
M 8	14 48 34	12°57'17	9♈42	20°23	18°35	22°21	24° 5	21°59	22°28	22° 8	10°13	10°21	11°34	10°38	n.a.	M 8
T 9	14 52 31	13°54'35	21°35	21° 3	19°46	22°53	24°17	22° 7	22°26	22° 8	10°14	10°11	11°31	10°45	n.a.	T 9
W10	14 56 27	14°51'52	3♉33	21°47	20°56	23°26	24°28	22°14	22°24	22° 9	10°15	10° 0	11°28	10°52	n.a.	W10
T 11	15 0 24	15°49'08	15°36	22°35	22° 6	23°59	24°40	22°21	22°21	22°10	10°16	9°51	11°25	10°58	n.a.	T 11
F 12	15 4 20	16°46'24	27°46	23°26	23°17	24°31	24°52	22°29	22°19	22°10	10°17	9°42	11°22	11° 5	n.a.	F 12
S 13	15 8 17	17°43'39	10♊ 4	24°22	24°27	25° 4	25° 4	22°36	22°17	22°11	10°18	9°36	11°18	11°12	n.a.	S 13
S 14	15 12 14	18°40'53	22°32	25°21	25°37	25°37	25°15	22°44	22°15	22°11	10°20	9°33	11°15	11°19	n.a.	S 14
M15	15 16 10	19°38'07	5♋11	26°23	26°47	26°10	25°27	22°51	22°13	22°12	10°21	9°D31	11°12	11°25	n.a.	M15
T 16	15 20 7	20°35'20	18° 3	27°29	27°57	26°44	25°39	22°58	22°11	22°12	10°22	9°32	11° 9	11°32	n.a.	T 16
W17	15 24 3	21°32'32	1♌11	28°38	29° 7	27°17	25°51	23° 5	22° 9	22°13	10°23	9°33	11° 6	11°39	n.a.	W17
T 18	15 28 0	22°29'43	14°37	29°51	0♋16	27°51	26° 3	23°13	22° 6	22°13	10°24	9°34	11° 3	11°46	n.a.	T 18
F 19	15 31 56	23°26'53	28°23	1♉ 7	1°26	28°24	26°15	23°20	22° 4	22°13	10°25	9°R34	10°59	11°52	n.a.	F 19
S 20	15 35 53	24°24'02	12♍29	2°26	2°36	28°58	26°28	23°27	22° 2	22°14	10°26	9°32	10°56	11°59	n.a.	S 20
S 21	15 39 50	25°21'11	26°55	3°49	3°45	29°32	26°40	23°34	22° 0	22°14	10°27	9°29	10°53	12° 6	n.a.	S 21
M22	15 43 46	26°18'19	11♎38	5°15	4°55	0♌ 5	26°52	23°41	21°59	22°14	10°28	9°24	10°50	12°12	n.a.	M22
T 23	15 47 43	27°15'26	26°31	6°44	6° 4	0°39	27° 4	23°48	21°57	22°15	10°29	9°19	10°47	12°19	n.a.	T 23
W24	15 51 39	28°12'33	11♏26	8°16	7°13	1°13	27°17	23°55	21°55	22°15	10°30	9°12	10°43	12°26	n.a.	W24
T 25	15 55 36	29° 9'40	26°16	9°51	8°22	1°48	27°29	24° 2	21°53	22°15	10°31	9° 7	10°40	12°33	n.a.	T 25
F 26	15 59 32	0♊ 6'46	10♐52	11°29	9°31	2°22	27°42	24° 9	21°51	22°15	10°32	9° 3	10°37	12°39	n.a.	F 26
S 27	16 3 29	1° 3'52	25° 8	13°11	10°40	2°56	27°54	24°15	21°49	22°15	10°33	9° 0	10°34	12°46	n.a.	S 27
S 28	16 7 25	2° 0'59	8♋58	14°55	11°49	3°30	28° 7	24°22	21°48	22°15	10°34	9°D 0	10°31	12°53	n.a.	S 28
M29	16 11 22	2°58'05	22°23	16°43	12°58	4° 5	28°19	24°29	21°46	22°R15	10°35	9° 0	10°28	12°59	n.a.	M29
T 30	16 15 19	3°55'11	5♒24	18°33	14° 6	4°40	28°32	24°36	21°44	22°15	10°36	9° 2	10°24	13° 6	n.a.	T 30
W31	16 19 15	4♊52'17	18♒ 2	20♉26	15♋15	5♌14	28♊45	24♈42	21♎43	22♒15	10♈37	9♋ 3	10♋21	13♈13	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13n46	23s15	0s18	4n 5	3s11	23n57	1n43	24n 8	1n45	23n46	0n16	6n15	2s14	8s28	0n31	15s17	1s 1	10s48	16s10	23n16	23n10	0s47		n.a.
T 2	14 5	22 22	1 26	4 3	3 18	24 9	1 45	24 2	1 44	23 47	0 16	6 18	2 14	8 27	0 31	15 17	1 1	10 48	16 11	23 16	23 10	0 44		n.a.
W 3	14 23	20 23	2 28	4 3	3 23	24 20	1 47	23 57	1 43	23 47	0 16	6 21	2 14	8 26	0 31	15 17	1 1	10 48	16 11	23 16	23 11	0 41		n.a.
T 4	14 42	17 30	3 21	4 6	3 28	24 31	1 48	23 51	1 42	23 48	0 16	6 23	2 15	8 25	0 31	15 16	1 1	10 47	16 11	23 16	23 11	0 39		n.a.
F 5	15 0	13 55	4 5	4 12	3 31	24 41	1 50	23 45	1 41	23 49	0 16	6 26	2 15	8 24	0 31	15 16	1 2	10 47	16 11	23 16	23 11	0 36		n.a.
S 6	15 19	9 50	4 37	4 20	3 34	24 50	1 52	23 39	1 40	23 49	0 16	6 29	2 15	8 23	0 31	15 16	1 2	10 47	16 11	23 17	23 11	0 33		n.a.
S 7	15 36	5 24	4 57	4 30	3 35	24 59	1 53	23 33	1 40	23 50	0 16	6 32	2 15	8 22	0 31	15 16	1 2	10 46	16 11	23 17	23 12	0 31		n.a.
M 8	15 54	0 46	5 4	4 43	3 36	25 7	1 55	23 27	1 39	23 51	0 16	6 35	2 15	8 21	0 31	15 16	1 2	10 46	16 11	23 18	23 12	0 28		n.a.
T 9	16 12	3n54	4 58	4 59	3 36	25 14	1 56	23 21	1 38	23 51	0 16	6 37	2 15	8 21	0 31	15 15	1 2	10 46	16 12	23 19	23 12	0 25		n.a.
W10	16 29	8 28	4 39	5 16	3 34	25 21	1 57	23 15	1 37	23 52	0 16	6 40	2 15	8 20	0 31	15 15	1 2	10 46	16 12	23 20	23 12	0 23		n.a.
T 11	16 46	12 45	4 8	5 36	3 32	25 27	1 59	23 8	1 36	23 52	0 16	6 43	2 15	8 19	0 31	15 15	1 2	10 45	16 12	23 20	23 13	0 20		n.a.
F 12	17 2	16 34	3 25	5 58	3 30	25 32	2 0	23 1	1 35	23 53	0 16	6 46	2 15	8 18	0 31	15 15	1 2	10 45	16 12	23 21	23 13	0 18		n.a.
S 13	17 19	19 43	2 31	6 21	3 26	25 36	2 1	22 54	1 34	23 53	0 16	6 48	2 15	8 17	0 31	15 15	1 2	10 45	16 12	23 21	23 13	0 15		n.a.
S 14	17 35	22 0	1 30	6 47	3 22	25 40	2 2	22 47	1 34	23 54	0 17	6 51	2 15	8 17	0 31	15 15	1 2	10 44	16 12	23 22	23 14	0 12		n.a.
M15	17 50	23 13	0 23	7 14	3 17	25 43	2 3	22 40	1 33	23 54	0 17	6 54	2 15	8 16	0 31	15 15	1 2	10 44	16 13	23 22	23 14	0 10		n.a.
T 16	18 6	23 14	0n46	7 43	3 11	25 45	2 4	22 33	1 32	23 55	0 17	6 56	2 15	8 15	0 31	15 15	1 2	10 44	16 13	23 22	23 14	0 7		n.a.
W17	18 21	21 58	1 54	8 14	3 5	25 47	2 4	22 26	1 31	23 55	0 17	6 59	2 15	8 14	0 31	15 14	1 2	10 44	16 13	23 22	23 14	0 4		n.a.
T 18	18 36	19 28	2 58	8 46	2 58	25 48	2 5	22 18	1 30	23 56	0 17	7 1	2 15	8 13	0 31	15 14	1 2	10 43	16 13	23 22	23 15	0 2		n.a.
F 19	18 51	15 48	3 53	9 20	2 50	25 48	2 6	22 10	1 29	23 56	0 17	7 4	2 15	8 13	0 31	15 14	1 2	10 43	16 13	23 22	23 15	0n 1		n.a.
S 20	19 5	11 11	4 35	9 55	2 42	25 47	2 6	22 3	1 29	23 57	0 17	7 7	2 16	8 12	0 31	15 14	1 2	10 43	16 14	23 22	23 15	0 4		n.a.
S 21	19 19	5 50	5 1	10 31	2 34	25 46	2 7	21 55	1 28	23 57	0 17	7 9	2 16	8 11	0 31	15 14	1 2	10 43	16 14	23 22	23 15	0 6		n.a.
M22	19 33	0 5	5 9	11 9	2 25	25 44	2 7	21 47	1 27	23 57	0 17	7 12	2 16	8 11	0 31	15 14	1 2	10 43	16 14	23 22	23 16	0 9		n.a.
T 23	19 46	5s45	4 55	11 47	2 15	25 41	2 7	21 38	1 26	23 58	0 17	7 14	2 16	8 10	0 31	15 14	1 2	10 42	16 14	23 23	23 16	0 12		n.a.
W24	19 59	11 17	4 22	12 27	2 5	25 38	2 7	21 30	1 25	23 58	0 17	7 17	2 16	8 9	0 31	15 14	1 2	10 42	16 15	23 23	23 16	0 14		n.a.
T 25	20 12	16 7	3 31	13 7	1 55	25 34	2 7	21 22	1 25	23 59	0 17	7 19	2 16	8 9	0 31	15 14	1 2	10 42	16 15	23 24	23 16	0 17		n.a.
F 26	20 24	19 54	2 27	13 48	1 44	25 29	2 7	21 13	1 24	23 59	0 18	7 22	2 16	8 8	0 31	15 14	1 2	10 42	16 15	23 24	23 17	0 20		n.a.
S 27	20 36	22 22	1 15	14 30	1 33	25 23	2 7	21 4	1 23	23 59	0 18	7 24	2 16	8 7	0 31	15 14	1 2	10 42	16 15	23 24	23 17	0 22		n.a.
S 28	20 48	23 24	0 0	15 12	1 22	25 17	2 7	20 55	1 22	23 59	0 18	7 26	2 16	8 7	0 31	15 14	1 3	10 42	16 15	23 24	23 17	0 25		n.a.
M29	20 59	23 1	1s12	15 54	1 10	25 10	2 6	20 46	1 21	24 0	0 18	7 29	2 17	8 6	0 31	15 14	1 3	10 41	16 16	23 24	23 18	0 27		n.a.
T 30	21 10	21 23	2 19	16 36	0 59	25 2	2 6	20 37	1 21	24 0	0 18	7 31	2 17	8 5	0 31	15 14	1 3	10 41	16 16	23 24	23 18	0 30		n.a.
W31	21n21	18s43	3s17	17n18	0s47	24n54	2n 5	20n28	1n20	24n 0	0n18	7n33	2s17	8s 5	0n31	15s14	1s 3	10s41	16s16	23n24	23n18	0n33		n.a.

Julian Day Number = 1676982.5, Delta T = 03h17m31s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'45, Lahiri = - 5°37'45 Julian Calendar 1 May 122 BCE == Greg. Calendar 28 Apr. 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

JUNE 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 23 12	5♊49'24	0♓21	22♉21	16♋23	5♌49	28♊57	24♈49	21°R41	22°R15	10♈37	9°R 4	10♋18	13♈20	n.a.	T 1
F 2	16 27 8	6°46'31	12°28	24°19	17°31	6°24	29°10	24°55	21♎40	22♒15	10°38	9♋ 4	10°15	13°26	n.a.	F 2
S 3	16 31 5	7°43'38	24°25	26°19	18°39	6°59	29°23	25° 2	21°38	22°15	10°39	9° 3	10°12	13°33	n.a.	S 3
S 4	16 35 1	8°40'45	6♈17	28°22	19°47	7°34	29°36	25° 8	21°37	22°15	10°40	9° 0	10° 9	13°40	n.a.	S 4
M 5	16 38 58	9°37'52	18°10	0♊26	20°55	8° 9	29°49	25°15	21°35	22°14	10°41	8°56	10° 5	13°47	n.a.	M 5
T 6	16 42 54	10°35'00	0♉ 6	2°32	22° 3	8°44	0♋ 1	25°21	21°34	22°14	10°42	8°52	10° 2	13°53	n.a.	T 6
W 7	16 46 51	11°32'09	12° 8	4°39	23°11	9°19	0°14	25°27	21°33	22°14	10°42	8°47	9°59	14° 0	n.a.	W 7
T 8	16 50 48	12°29'17	24°20	6°47	24°18	9°55	0°27	25°34	21°31	22°14	10°43	8°43	9°56	14° 7	n.a.	T 8
F 9	16 54 44	13°26'26	6♊41	8°56	25°26	10°30	0°40	25°40	21°30	22°13	10°44	8°39	9°53	14°13	n.a.	F 9
S 10	16 58 41	14°23'35	19°15	11° 5	26°33	11° 6	0°53	25°46	21°29	22°13	10°44	8°37	9°49	14°20	n.a.	S 10
S 11	17 2 37	15°20'45	2♋ 0	13°15	27°40	11°41	1° 6	25°52	21°28	22°13	10°45	8°36	9°46	14°27	n.a.	S 11
M12	17 6 34	16°17'54	14°58	15°24	28°47	12°17	1°19	25°58	21°27	22°12	10°46	8°D36	9°43	14°34	n.a.	M12
T 13	17 10 30	17°15'04	28°10	17°33	29°54	12°53	1°32	26° 4	21°26	22°12	10°47	8°37	9°40	14°40	n.a.	T 13
W14	17 14 27	18°12'15	11♌35	19°42	1♌ 0	13°29	1°45	26° 9	21°25	22°11	10°47	8°38	9°37	14°47	n.a.	W14
T 15	17 18 24	19° 9'25	25°13	21°49	2° 7	14° 5	1°58	26°15	21°24	22°11	10°48	8°39	9°34	14°54	n.a.	T 15
F 16	17 22 20	20° 6'35	9♍ 4	23°56	3°13	14°41	2°12	26°21	21°23	22°10	10°48	8°40	9°30	15° 1	n.a.	F 16
S 17	17 26 17	21° 3'45	23° 8	26° 2	4°20	15°17	2°25	26°27	21°22	22°10	10°49	8°R41	9°27	15° 7	n.a.	S 17
S 18	17 30 13	22° 0'56	7♎24	28° 6	5°26	15°53	2°38	26°32	21°21	22° 9	10°50	8°40	9°24	15°14	n.a.	S 18
M19	17 34 10	22°58'07	21°48	0♋ 9	6°31	16°29	2°51	26°38	21°20	22° 8	10°50	8°39	9°21	15°21	n.a.	M19
T 20	17 38 6	23°55'18	6♏18	2°10	7°37	17° 6	3° 4	26°43	21°20	22° 8	10°51	8°37	9°18	15°27	n.a.	T 20
W21	17 42 3	24°52'30	20°47	4° 9	8°43	17°42	3°17	26°48	21°19	22° 7	10°51	8°35	9°14	15°34	n.a.	W21
T 22	17 45 59	25°49'42	5♐12	6° 8	9°48	18°18	3°31	26°54	21°18	22° 6	10°52	8°34	9°11	15°41	n.a.	T 22
F 23	17 49 56	26°46'55	19°25	8° 4	10°53	18°55	3°44	26°59	21°18	22° 6	10°52	8°33	9° 8	15°48	n.a.	F 23
S 24	17 53 53	27°44'08	3♑24	9°59	11°58	19°32	3°57	27° 4	21°17	22° 5	10°52	8°D32	9° 5	15°54	n.a.	S 24
S 25	17 57 49	28°41'22	17° 4	11°52	13° 3	20° 8	4°10	27° 9	21°17	22° 4	10°53	8°33	9° 2	16° 1	n.a.	S 25
M26	18 1 46	29°38'37	0♒23	13°43	14° 7	20°45	4°23	27°14	21°16	22° 3	10°53	8°33	8°59	16° 8	n.a.	M26
T 27	18 5 42	0♋35'53	13°21	15°33	15°11	21°22	4°37	27°19	21°16	22° 2	10°54	8°34	8°55	16°14	n.a.	T 27
W28	18 9 39	1°33'10	26° 0	17°21	16°15	21°59	4°50	27°24	21°16	22° 1	10°54	8°34	8°52	16°21	n.a.	W28
T 29	18 13 35	2°30'28	8♓21	19° 7	17°19	22°36	5° 3	27°29	21°15	22° 0	10°54	8°35	8°49	16°28	n.a.	T 29
F 30	18 17 32	3♋27'47	20♓29	20♋51	18♌23	23♌13	5♋16	27♈33	21♎15	22♒ 0	10♈55	8♋35	8♋46	16♈35	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n31	15s16	4s 4	17n59	0s36	24n45	2n 5	20n18	1n19	24n 0	0n18	7n36	2s17	8s 4	0n31	15s14	1s 3	10s41	16s16	23n24	23n18	0n35		n.a.
F 2	21 41	11 15	4 39	18 40	0 24	24 36	2 4	20 9	1 18	24 0	0 18	7 38	2 17	8 4	0 31	15 14	1 3	10 41	16 17	23 24	23 19	0 38		n.a.
S 3	21 51	6 51	5 2	19 21	0 13	24 25	2 3	19 59	1 17	24 1	0 18	7 40	2 17	8 3	0 31	15 14	1 3	10 41	16 17	23 24	23 19	0 41		n.a.
S 4	22 0	2 14	5 12	20 0	0 1	24 14	2 2	19 49	1 17	24 1	0 18	7 43	2 17	8 3	0 31	15 15	1 3	10 41	16 17	23 24	23 19	0 43		n.a.
M 5	22 9	2n27	5 8	20 38	0n10	24 3	2 1	19 39	1 16	24 1	0 18	7 45	2 17	8 2	0 31	15 15	1 3	10 41	16 17	23 24	23 19	0 46		n.a.
T 6	22 17	7 5	4 51	21 14	0 21	23 51	2 0	19 29	1 15	24 1	0 18	7 47	2 18	8 2	0 31	15 15	1 3	10 41	16 18	23 25	23 19	0 49		n.a.
W 7	22 25	11 30	4 21	21 49	0 31	23 38	1 58	19 19	1 14	24 1	0 18	7 49	2 18	8 1	0 31	15 15	1 3	10 41	16 18	23 25	23 20	0 51		n.a.
T 8	22 33	15 31	3 39	22 21	0 41	23 25	1 57	19 9	1 14	24 1	0 19	7 51	2 18	8 1	0 31	15 15	1 3	10 41	16 18	23 25	23 20	0 54		n.a.
F 9	22 40	18 56	2 46	22 52	0 50	23 11	1 55	18 58	1 13	24 1	0 19	7 53	2 18	8 0	0 30	15 15	1 3	10 41	16 19	23 25	23 20	0 57		n.a.
S 10	22 47	21 32	1 44	23 20	0 59	22 56	1 54	18 48	1 12	24 1	0 19	7 55	2 18	8 0	0 30	15 15	1 3	10 41	16 19	23 26	23 20	0 59		n.a.
S 11	22 54	23 5	0 36	23 45	1 7	22 41	1 52	18 37	1 11	24 1	0 19	7 57	2 18	7 59	0 30	15 16	1 3	10 41	16 19	23 26	23 21	1 2		n.a.
M12	23 0	23 26	0n35	24 8	1 15	22 26	1 50	18 26	1 11	24 1	0 19	8 0	2 18	7 59	0 30	15 16	1 3	10 41	16 19	23 26	23 21	1 5		n.a.
T 13	23 5	22 29	1 46	24 28	1 22	22 9	1 48	18 15	1 10	24 1	0 19	8 2	2 19	7 59	0 30	15 16	1 3	10 41	16 20	23 26	23 21	1 8		n.a.
W14	23 11	20 15	2 52	24 46	1 28	21 53	1 46	18 4	1 9	24 1	0 19	8 4	2 19	7 58	0 30	15 16	1 3	10 41	16 20	23 25	23 21	1 10		n.a.
T 15	23 16	16 51	3 49	25 0	1 33	21 35	1 44	17 53	1 8	24 1	0 19	8 5	2 19	7 58	0 30	15 16	1 3	10 41	16 20	23 25	23 22	1 13		n.a.
F 16	23 20	12 29	4 34	25 12	1 38	21 18	1 41	17 41	1 8	24 1	0 19	8 7	2 19	7 58	0 30	15 17	1 3	10 41	16 21	23 25	23 22	1 16		n.a.
S 17	23 24	7 24	5 4	25 21	1 42	20 59	1 39	17 30	1 7	24 1	0 19	8 9	2 19	7 57	0 30	15 17	1 3	10 41	16 21	23 25	23 22	1 18		n.a.
S 18	23 28	1 51	5 15	25 27	1 45	20 41	1 36	17 18	1 6	24 0	0 19	8 11	2 19	7 57	0 30	15 17	1 3	10 41	16 21	23 25	23 22	1 21		n.a.
M19	23 31	3s51	5 7	25 30	1 48	20 21	1 33	17 6	1 5	24 0	0 20	8 13	2 20	7 57	0 30	15 17	1 4	10 41	16 21	23 25	23 23	1 24		n.a.
T 20	23 34	9 22	4 40	25 31	1 50	20 2	1 31	16 55	1 4	24 0	0 20	8 15	2 20	7 57	0 30	15 17	1 4	10 41	16 22	23 26	23 23	1 26		n.a.
W21	23 37	14 23	3 54	25 30	1 51	19 42	1 28	16 43	1 4	24 0	0 20	8 17	2 20	7 56	0 30	15 18	1 4	10 41	16 22	23 26	23 23	1 29		n.a.
T 22	23 39	18 33	2 54	25 25	1 52	19 21	1 24	16 31	1 3	24 0	0 20	8 18	2 20	7 56	0 30	15 18	1 4	10 41	16 22	23 26	23 23	1 32		n.a.
F 23	23 40	21 34	1 44	25 19	1 52	19 0	1 21	16 18	1 2	23 59	0 20	8 20	2 20	7 56	0 30	15 18	1 4	10 41	16 23	23 26	23 23	1 34		n.a.
S 24	23 41	23 11	0 28	25 10	1 51	18 39	1 18	16 6	1 1	23 59	0 20	8 22	2 20	7 56	0 30	15 19	1 4	10 41	16 23	23 26	23 24	1 37		n.a.
S 25	23 42	23 23	0s47	24 59	1 50	18 17	1 15	15 54	1 1	23 59	0 20	8 23	2 21	7 56	0 30	15 19	1 4	10 41	16 23	23 26	23 24	1 40		n.a.
M26	23 43	22 13	1 58	24 47	1 48	17 55	1 11	15 41	1 0	23 58	0 20	8 25	2 21	7 56	0 30	15 19	1 4	10 42	16 24	23 26	23 24	1 42		n.a.
T 27	23 42	19 53	3 1	24 32	1 45	17 32	1 7	15 28	0 59	23 58	0 20	8 27	2 21	7 55	0 30	15 20	1 4	10 42	16 24	23 26	23 24	1 45		n.a.
W28	23 42	16 39	3 54	24 16	1 42	17 9	1 3	15 16	0 59	23 58	0 20	8 28	2 21	7 55	0 30	15 20	1 4	10 42	16 24	23 26	23 25	1 48		n.a.
T 29	23 41	12 45	4 34	23 57	1 39	16 46	1 0	15 3	0 58	23 57	0 20	8 30	2 21	7 55	0 30	15 20	1 4	10 42	16 25	23 26	23 25	1 50		n.a.
F 30	23n40	8s25	5s 1	23n38	1n35	16n22	0n55	14n50	0n57	23n57	0n21	8n31	2s22	7s55	0n30	15s21	1s 4	10s42	16s25	23n26	23n25	1n53		n.a.

Julian Day Number = 1677013.5, Delta T = 03h17m30s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'41, Lahiri = - 5°37'40 Julian Calendar 1 June 122 BCE == Greg. Calendar 29 May 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

JULY 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 28	4♋25'07	2♈28	22♋34	19♌26	23♌50	5♋30	27♈38	21°R15	21°R59	10♈55	8°R36	8♋43	16♈41	n.a.	S 1
S 2	18 25 25	5°22'29	14°22	24°15	20°29	24°27	5°43	27°43	21♎15	21♒58	10°55	8♋36	8°40	16°48	n.a.	S 2
M 3	18 29 22	6°19'51	26°16	25°55	21°32	25° 5	5°56	27°47	21°15	21°57	10°56	8°35	8°36	16°55	n.a.	M 3
T 4	18 33 18	7°17'15	8♉13	27°33	22°35	25°42	6°10	27°51	21°D15	21°56	10°56	8°35	8°33	17° 2	n.a.	T 4
W 5	18 37 15	8°14'40	20°19	29° 9	23°37	26°19	6°23	27°56	21°15	21°54	10°56	8°D35	8°30	17° 8	n.a.	W 5
T 6	18 41 11	9°12'07	2♊37	0♌43	24°40	26°57	6°36	28° 0	21°15	21°53	10°56	8°35	8°27	17°15	n.a.	T 6
F 7	18 45 8	10° 9'35	15° 9	2°16	25°41	27°35	6°49	28° 4	21°15	21°52	10°56	8°35	8°24	17°22	n.a.	F 7
S 8	18 49 4	11° 7'04	27°57	3°47	26°43	28°12	7° 3	28° 8	21°15	21°51	10°57	8°35	8°20	17°28	n.a.	S 8
S 9	18 53 1	12° 4'34	11♋ 2	5°16	27°44	28°50	7°16	28°12	21°15	21°50	10°57	8°R35	8°17	17°35	n.a.	S 9
M10	18 56 57	13° 2'06	24°23	6°44	28°45	29°28	7°29	28°16	21°16	21°49	10°57	8°35	8°14	17°42	n.a.	M10
T 11	19 0 54	13°59'38	8♌ 0	8°10	29°46	0♍ 6	7°42	28°19	21°16	21°48	10°57	8°35	8°11	17°49	n.a.	T 11
W12	19 4 51	14°57'12	21°50	9°34	0♍46	0°44	7°55	28°23	21°16	21°46	10°57	8°34	8° 8	17°55	n.a.	W12
T 13	19 8 47	15°54'47	5♍50	10°57	1°46	1°22	8° 9	28°27	21°17	21°45	10°57	8°33	8° 5	18° 2	n.a.	T 13
F 14	19 12 44	16°52'23	19°58	12°17	2°46	2° 0	8°22	28°30	21°17	21°44	10°57	8°33	8° 1	18° 9	n.a.	F 14
S 15	19 16 40	17°50'00	4♎10	13°36	3°45	2°38	8°35	28°33	21°18	21°43	10°R57	8°32	7°58	18°16	n.a.	S 15
S 16	19 20 37	18°47'37	18°25	14°53	4°44	3°16	8°48	28°37	21°19	21°41	10°57	8°D32	7°55	18°22	n.a.	S 16
M17	19 24 33	19°45'16	2♏38	16° 8	5°43	3°55	9° 1	28°40	21°19	21°40	10°57	8°32	7°52	18°29	n.a.	M17
T 18	19 28 30	20°42'57	16°48	17°20	6°41	4°33	9°14	28°43	21°20	21°39	10°57	8°33	7°49	18°36	n.a.	T 18
W19	19 32 26	21°40'38	0♐53	18°31	7°39	5°11	9°28	28°46	21°21	21°37	10°57	8°34	7°46	18°42	n.a.	W19
T 20	19 36 23	22°38'20	14°50	19°40	8°36	5°50	9°41	28°49	21°22	21°36	10°57	8°35	7°42	18°49	n.a.	T 20
F 21	19 40 20	23°36'04	28°36	20°46	9°33	6°29	9°54	28°52	21°22	21°34	10°57	8°36	7°39	18°56	n.a.	F 21
S 22	19 44 16	24°33'50	12♑11	21°50	10°29	7° 7	10° 7	28°54	21°23	21°33	10°57	8°R36	7°36	19° 3	n.a.	S 22
S 23	19 48 13	25°31'36	25°31	22°51	11°25	7°46	10°20	28°57	21°24	21°32	10°56	8°35	7°33	19° 9	n.a.	S 23
M24	19 52 9	26°29'25	8♒36	23°50	12°21	8°25	10°33	28°59	21°25	21°30	10°56	8°34	7°30	19°16	n.a.	M24
T 25	19 56 6	27°27'14	21°25	24°46	13°16	9° 4	10°46	29° 2	21°26	21°29	10°56	8°31	7°26	19°23	n.a.	T 25
W26	20 0 2	28°25'06	3♓58	25°39	14°10	9°43	10°59	29° 4	21°28	21°27	10°56	8°28	7°23	19°29	n.a.	W26
T 27	20 3 59	29°22'59	16°17	26°29	15° 4	10°22	11°12	29° 6	21°29	21°26	10°56	8°25	7°20	19°36	n.a.	T 27
F 28	20 7 55	0♌20'54	28°25	27°16	15°57	11° 1	11°24	29° 8	21°30	21°24	10°55	8°22	7°17	19°43	n.a.	F 28
S 29	20 11 52	1°18'51	10♈23	28° 0	16°50	11°40	11°37	29°10	21°31	21°23	10°55	8°20	7°14	19°50	n.a.	S 29
S 30	20 15 49	2°16'50	22°17	28°39	17°42	12°19	11°50	29°12	21°33	21°21	10°55	8°18	7°11	19°56	n.a.	S 30
M31	20 19 45	3♌14'51	4♉10	29♌15	18♍34	12♍58	12♋ 3	29♈14	21♎34	21♒19	10♈54	8°D18	7♋ 7	20♈ 3	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n38	3s49	5s15	23n17	1n30	15n58	0n51	14n37	0n56	23n56	0n21	8n33	2s22	7s55	0n30	15s21	1s 4	10s42	16s25	23n26	23n25	1n56		n.a.
S 2	23 36	0n53	5 15	22 54	1 25	15 34	0 47	14 23	0 56	23 56	0 21	8 34	2 22	7 55	0 30	15 21	1 4	10 43	16 26	23 26	23 25	1 59		n.a.
M 3	23 33	5 34	5 2	22 31	1 20	15 9	0 43	14 10	0 55	23 55	0 21	8 36	2 22	7 55	0 30	15 22	1 4	10 43	16 26	23 26	23 26	2 1		n.a.
T 4	23 30	10 4	4 36	22 6	1 14	14 44	0 38	13 57	0 54	23 55	0 21	8 37	2 22	7 55	0 30	15 22	1 4	10 43	16 26	23 26	23 26	2 4		n.a.
W 5	23 27	14 14	3 57	21 40	1 8	14 19	0 33	13 43	0 53	23 54	0 21	8 38	2 23	7 55	0 30	15 22	1 4	10 43	16 27	23 26	23 26	2 7		n.a.
T 6	23 23	17 52	3 6	21 14	1 2	13 54	0 29	13 29	0 53	23 54	0 21	8 40	2 23	7 55	0 30	15 23	1 4	10 43	16 27	23 26	23 26	2 9		n.a.
F 7	23 19	20 47	2 6	20 46	0 55	13 28	0 24	13 16	0 52	23 53	0 21	8 41	2 23	7 55	0 30	15 23	1 4	10 44	16 27	23 26	23 26	2 12		n.a.
S 8	23 14	22 43	0 59	20 18	0 48	13 2	0 19	13 2	0 51	23 52	0 21	8 42	2 23	7 55	0 30	15 24	1 4	10 44	16 27	23 26	23 27	2 15		n.a.
S 9	23 9	23 28	0n14	19 49	0 40	12 36	0 14	12 48	0 50	23 52	0 21	8 43	2 23	7 56	0 30	15 24	1 4	10 44	16 28	23 26	23 27	2 17		n.a.
M10	23 4	22 54	1 26	19 19	0 33	12 10	0 8	12 34	0 50	23 51	0 22	8 44	2 24	7 56	0 29	15 24	1 4	10 44	16 28	23 26	23 27	2 20		n.a.
T 11	22 58	20 59	2 36	18 49	0 24	11 44	0 3	12 20	0 49	23 51	0 22	8 46	2 24	7 56	0 29	15 25	1 4	10 45	16 28	23 26	23 27	2 23		n.a.
W12	22 52	17 48	3 37	18 19	0 16	11 17	0s 3	12 5	0 48	23 50	0 22	8 47	2 24	7 56	0 29	15 25	1 4	10 45	16 29	23 26	23 27	2 26		n.a.
T 13	22 45	13 36	4 26	17 48	0 7	10 50	0 8	11 51	0 48	23 49	0 22	8 48	2 24	7 56	0 29	15 26	1 4	10 45	16 29	23 26	23 28	2 28		n.a.
F 14	22 38	8 36	5 0	17 17	0s 1	10 23	0 14	11 37	0 47	23 48	0 22	8 49	2 25	7 57	0 29	15 26	1 4	10 45	16 29	23 26	23 28	2 31		n.a.
S 15	22 30	3 8	5 15	16 46	0 11	9 56	0 20	11 22	0 46	23 48	0 22	8 50	2 25	7 57	0 29	15 27	1 4	10 46	16 30	23 26	23 28	2 34		n.a.
S 16	22 22	2s30	5 12	16 14	0 20	9 29	0 26	11 7	0 45	23 47	0 22	8 51	2 25	7 57	0 29	15 27	1 5	10 46	16 30	23 26	23 28	2 36		n.a.
M17	22 14	8 0	4 49	15 43	0 29	9 2	0 32	10 53	0 45	23 46	0 22	8 52	2 25	7 57	0 29	15 28	1 5	10 46	16 30	23 26	23 28	2 39		n.a.
T 18	22 6	13 4	4 9	15 12	0 39	8 34	0 38	10 38	0 44	23 45	0 22	8 53	2 25	7 58	0 29	15 28	1 5	10 47	16 31	23 26	23 29	2 42		n.a.
W19	21 57	17 25	3 14	14 40	0 49	8 7	0 44	10 23	0 43	23 44	0 22	8 53	2 26	7 58	0 29	15 29	1 5	10 47	16 31	23 26	23 29	2 44		n.a.
T 20	21 47	20 43	2 8	14 9	0 59	7 39	0 51	10 8	0 42	23 44	0 23	8 54	2 26	7 58	0 29	15 29	1 5	10 47	16 31	23 26	23 29	2 47		n.a.
F 21	21 37	22 47	0 55	13 39	1 9	7 12	0 57	9 53	0 42	23 43	0 23	8 55	2 26	7 59	0 29	15 29	1 5	10 48	16 32	23 26	23 29	2 50		n.a.
S 22	21 27	23 28	0s20	13 8	1 19	6 44	1 4	9 38	0 41	23 42	0 23	8 56	2 26	7 59	0 29	15 30	1 5	10 48	16 32	23 26	23 29	2 53		n.a.
S 23	21 17	22 47	1 32	12 38	1 30	6 16	1 11	9 22	0 40	23 41	0 23	8 56	2 27	7 59	0 29	15 30	1 5	10 48	16 32	23 26	23 29	2 55		n.a.
M24	21 6	20 51	2 38	12 9	1 40	5 49	1 18	9 7	0 40	23 40	0 23	8 57	2 27	8 0	0 29	15 31	1 5	10 49	16 33	23 26	23 30	2 58		n.a.
T 25	20 54	17 54	3 34	11 41	1 50	5 21	1 25	8 52	0 39	23 39	0 23	8 58	2 27	8 0	0 29	15 31	1 5	10 49	16 33	23 26	23 30	3 1		n.a.
W26	20 43	14 11	4 19	11 13	2 1	4 53	1 32	8 36	0 38	23 38	0 23	8 58	2 27	8 1	0 29	15 32	1 5	10 49	16 33	23 26	23 30	3 3		n.a.
T 27	20 31	9 56	4 51	10 46	2 11	4 26	1 39	8 21	0 37	23 37	0 23	8 59	2 28	8 1	0 29	15 32	1 5	10 50	16 34	23 26	23 30	3 6		n.a.
F 28	20 18	5 22	5 9	10 20	2 22	3 58	1 46	8 5	0 37	23 36	0 23	8 59	2 28	8 2	0 29	15 33	1 5	10 50	16 34	23 27	23 30	3 9		n.a.
S 29	20 5	0 39	5 14	9 56	2 32	3 31	1 54	7 49	0 36	23 35	0 24	9 0	2 28	8 2	0 29	15 34	1 5	10 51	16 34	23 27	23 31	3 12		n.a.
S 30	19 52	4n 3	5 5	9 32	2 42	3 3	2 1	7 33	0 35	23 34	0 24	9 0	2 28	8 3	0 29	15 34	1 5	10 51	16 34	23 27	23 31	3 14		n.a.
M31	19n39	8n37	4s43	9n10	2s53	2n36	2s 9	7n18	0n35	23n33	0n24	9n 1	2s28	8s 3	0n29	15s35	1s 5	10s51	16s35	23n27	23n31	3n17		n.a.

Julian Day Number = 1677043.5, Delta T = 03h17m29s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'37, Lahiri = - 5°37'36 Julian Calendar 1 July 122 BCE == Greg. Calendar 28 June 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

AUGUST 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 23 42	4♌12'54	16♉ 7	29♌47	19♍25	13♍38	12♋16	29♈16	21♎35	21°R18	10°R54	8♋18	7♋ 4	20♈10	n.a.	T 1
W 2	20 27 38	5°10'59	28°13	0♍14	20°15	14°17	12°28	29°17	21°37	21♒16	10♈54	8°20	7° 1	20°17	n.a.	W 2
T 3	20 31 35	6° 9'06	10♊33	0°36	21° 5	14°57	12°41	29°19	21°38	21°15	10°53	8°21	6°58	20°23	n.a.	T 3
F 4	20 35 31	7° 7'15	23°10	0°54	21°54	15°36	12°54	29°20	21°40	21°13	10°53	8°23	6°55	20°30	n.a.	F 4
S 5	20 39 28	8° 5'26	6♋ 7	1° 6	22°42	16°16	13° 6	29°21	21°42	21°12	10°53	8°R24	6°52	20°37	n.a.	S 5
S 6	20 43 24	9° 3'39	19°27	1°13	23°29	16°55	13°19	29°22	21°43	21°10	10°52	8°23	6°48	20°43	n.a.	S 6
M 7	20 47 21	10° 1'54	3♌ 9	1°R14	24°16	17°35	13°31	29°23	21°45	21° 8	10°52	8°21	6°45	20°50	n.a.	M 7
T 8	20 51 18	11° 0'11	17°11	1° 9	25° 1	18°15	13°44	29°24	21°47	21° 7	10°51	8°18	6°42	20°57	n.a.	T 8
W 9	20 55 14	11°58'30	1♍29	0°57	25°46	18°55	13°56	29°25	21°48	21° 5	10°51	8°13	6°39	21° 4	n.a.	W 9
T 10	20 59 11	12°56'50	15°57	0°40	26°30	19°35	14° 9	29°26	21°50	21° 3	10°50	8° 8	6°36	21°10	n.a.	T 10
F 11	21 3 7	13°55'12	0♎30	0°15	27°13	20°15	14°21	29°26	21°52	21° 2	10°50	8° 3	6°32	21°17	n.a.	F 11
S 12	21 7 4	14°53'36	15° 1	29♌44	27°55	20°55	14°33	29°27	21°54	21° 0	10°49	7°59	6°29	21°24	n.a.	S 12
S 13	21 11 0	15°52'01	29°25	29° 7	28°37	21°35	14°46	29°27	21°56	20°59	10°48	7°56	6°26	21°30	n.a.	S 13
M14	21 14 57	16°50'29	13♏38	28°23	29°17	22°16	14°58	29°27	21°58	20°57	10°48	7°D55	6°23	21°37	n.a.	M14
T 15	21 18 53	17°48'58	27°39	27°34	29°55	22°56	15°10	29°28	22° 0	20°55	10°47	7°55	6°20	21°44	n.a.	T 15
W16	21 22 50	18°47'28	11♐27	26°40	0♎33	23°36	15°22	29°R28	22° 2	20°54	10°47	7°56	6°17	21°51	n.a.	W16
T 17	21 26 47	19°46'01	25° 2	25°42	1°10	24°17	15°34	29°28	22° 5	20°52	10°46	7°58	6°13	21°57	n.a.	T 17
F 18	21 30 43	20°44'35	8♑24	24°40	1°45	24°57	15°46	29°27	22° 7	20°50	10°45	7°R58	6°10	22° 4	n.a.	F 18
S 19	21 34 40	21°43'11	21°33	23°37	2°19	25°38	15°58	29°27	22° 9	20°49	10°45	7°58	6° 7	22°11	n.a.	S 19
S 20	21 38 36	22°41'49	4♒31	22°34	2°52	26°18	16°10	29°27	22°11	20°47	10°44	7°55	6° 4	22°17	n.a.	S 20
M21	21 42 33	23°40'28	17°18	21°32	3°23	26°59	16°21	29°26	22°14	20°45	10°43	7°50	6° 1	22°24	n.a.	M21
T 22	21 46 29	24°39'10	29°52	20°32	3°53	27°40	16°33	29°26	22°16	20°44	10°43	7°42	5°58	22°31	n.a.	T 22
W23	21 50 26	25°37'54	12♓16	19°37	4°21	28°21	16°45	29°25	22°18	20°42	10°42	7°34	5°54	22°38	n.a.	W23
T 24	21 54 22	26°36'40	24°28	18°47	4°48	29° 2	16°56	29°24	22°21	20°40	10°41	7°25	5°51	22°44	n.a.	T 24
F 25	21 58 19	27°35'28	6♈32	18° 4	5°13	29°43	17° 8	29°23	22°23	20°39	10°40	7°16	5°48	22°51	n.a.	F 25
S 26	22 2 15	28°34'18	18°28	17°29	5°36	0♎24	17°19	29°22	22°26	20°37	10°40	7° 8	5°45	22°58	n.a.	S 26
S 27	22 6 12	29°33'11	0♉20	17° 4	5°58	1° 5	17°31	29°21	22°29	20°35	10°39	7° 1	5°42	23° 4	n.a.	S 27
M28	22 10 9	0♍32'06	12°11	16°47	6°18	1°46	17°42	29°20	22°31	20°34	10°38	6°57	5°38	23°11	n.a.	M28
T 29	22 14 5	1°31'03	24° 6	16°D41	6°36	2°27	17°53	29°18	22°34	20°32	10°37	6°55	5°35	23°18	n.a.	T 29
W30	22 18 2	2°30'03	6♊ 9	16°45	6°52	3° 8	18° 4	29°17	22°36	20°31	10°36	6°D55	5°32	23°25	n.a.	W30
T 31	22 21 58	3♍29'06	18♊26	17♌ 0	7♎ 7	3♎50	18♋16	29♈15	22♎39	20♒29	10♈35	6♋56	5♋29	23♈31	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	19n25	12n53	4s 8	8n50	3s 2	2n 9	2s17	7n 2	0n34	23n32	0n24	9n 1	2s29	8s 4	0n29	15s35	1s 5	10s52	16s35	23n27	23n31	3n20			n.a.
W 2	19 11	16 42	3 23	8 31	3 12	1 42	2 24	6 46	0 33	23 31	0 24	9 1	2 29	8 4	0 29	15 36	1 5	10 52	16 35	23 27	23 31	3 22			n.a.
T 3	18 57	19 52	2 27	8 15	3 21	1 15	2 32	6 30	0 32	23 30	0 24	9 2	2 29	8 5	0 29	15 36	1 5	10 53	16 36	23 27	23 31	3 25			n.a.
F 4	18 42	22 9	1 22	8 0	3 30	0 48	2 40	6 13	0 32	23 29	0 24	9 2	2 29	8 6	0 29	15 37	1 5	10 53	16 36	23 26	23 32	3 28			n.a.
S 5	18 27	23 22	0 12	7 48	3 38	0 21	2 49	5 57	0 31	23 28	0 24	9 2	2 30	8 6	0 29	15 37	1 5	10 53	16 36	23 26	23 32	3 31			n.a.
S 6	18 12	23 16	1n 0	7 38	3 46	0s 5	2 57	5 41	0 30	23 26	0 25	9 2	2 30	8 7	0 29	15 38	1 5	10 54	16 37	23 26	23 32	3 33			n.a.
M 7	17 56	21 48	2 11	7 32	3 53	0 31	3 5	5 25	0 30	23 25	0 25	9 3	2 30	8 8	0 29	15 38	1 5	10 54	16 37	23 27	23 32	3 36			n.a.
T 8	17 40	18 58	3 16	7 28	4 0	0 57	3 13	5 8	0 29	23 24	0 25	9 3	2 30	8 8	0 29	15 39	1 5	10 55	16 37	23 27	23 32	3 39			n.a.
W 9	17 24	14 57	4 9	7 27	4 5	1 23	3 22	4 52	0 28	23 23	0 25	9 3	2 31	8 9	0 28	15 39	1 5	10 55	16 37	23 27	23 32	3 42			n.a.
T 10	17 7	10 1	4 48	7 29	4 9	1 48	3 30	4 35	0 27	23 22	0 25	9 3	2 31	8 10	0 28	15 40	1 5	10 56	16 38	23 27	23 33	3 44			n.a.
F 11	16 50	4 30	5 8	7 35	4 12	2 14	3 39	4 19	0 27	23 21	0 25	9 3	2 31	8 11	0 28	15 40	1 5	10 56	16 38	23 28	23 33	3 47			n.a.
S 12	16 33	1s15	5 8	7 44	4 14	2 38	3 48	4 2	0 26	23 19	0 25	9 3	2 31	8 11	0 28	15 41	1 5	10 57	16 38	23 28	23 33	3 50			n.a.
S 13	16 16	6 53	4 49	7 57	4 14	3 3	3 56	3 46	0 25	23 18	0 25	9 3	2 32	8 12	0 28	15 42	1 5	10 57	16 38	23 28	23 33	3 52			n.a.
M14	15 58	12 6	4 13	8 14	4 12	3 27	4 5	3 29	0 25	23 17	0 26	9 2	2 32	8 13	0 28	15 42	1 5	10 57	16 39	23 28	23 33	3 55			n.a.
T 15	15 40	16 36	3 21	8 34	4 9	3 51	4 14	3 12	0 24	23 16	0 26	9 2	2 32	8 14	0 28	15 43	1 5	10 58	16 39	23 28	23 33	3 58			n.a.
W16	15 22	20 7	2 19	8 57	4 3	4 14	4 23	2 55	0 23	23 14	0 26	9 2	2 32	8 15	0 28	15 43	1 5	10 58	16 39	23 28	23 34	4 1			n.a.
T 17	15 3	22 27	1 10	9 24	3 56	4 37	4 32	2 38	0 23	23 13	0 26	9 2	2 33	8 15	0 28	15 44	1 5	10 59	16 40	23 28	23 34	4 3			n.a.
F 18	14 44	23 29	0s 2	9 53	3 47	5 0	4 41	2 22	0 22	23 12	0 26	9 1	2 33	8 16	0 28	15 44	1 5	10 59	16 40	23 28	23 34	4 6			n.a.
S 19	14 25	23 10	1 13	10 25	3 35	5 22	4 50	2 5	0 21	23 11	0 26	9 1	2 33	8 17	0 28	15 45	1 5	11 0	16 40	23 28	23 34	4 9			n.a.
S 20	14 6	21 35	2 18	10 58	3 22	5 43	4 59	1 48	0 20	23 9	0 26	9 1	2 33	8 18	0 28	15 45	1 5	11 0	16 40	23 28	23 34	4 11			n.a.
M21	13 47	18 56	3 16	11 32	3 7	6 4	5 8	1 31	0 20	23 8	0 27	9 0	2 34	8 19	0 28	15 46	1 5	11 1	16 40	23 29	23 34	4 14			n.a.
T 22	13 27	15 25	4 3	12 7	2 51	6 24	5 17	1 14	0 19	23 7	0 27	9 0	2 34	8 20	0 28	15 47	1 5	11 1	16 41	23 29	23 34	4 17			n.a.
W23	13 7	11 18	4 37	12 41	2 33	6 44	5 26	0 57	0 18	23 5	0 27	8 59	2 34	8 21	0 28	15 47	1 5	11 2	16 41	23 29	23 35	4 20			n.a.
T 24	12 47	6 47	4 59	13 14	2 14	7 3	5 36	0 40	0 18	23 4	0 27	8 59	2 34	8 22	0 28	15 48	1 5	11 2	16 41	23 30	23 35	4 22			n.a.
F 25	12 27	2 3	5 6	13 46	1 55	7 21	5 45	0 22	0 17	23 3	0 27	8 58	2 34	8 23	0 28	15 48	1 5	11 3	16 41	23 30	23 35	4 25			n.a.
S 26	12 6	2n42	5 0	14 15	1 35	7 39	5 54	0 5	0 16	23 1	0 27	8 58	2 35	8 24	0 28	15 49	1 5	11 3	16 42	23 31	23 35	4 28			n.a.
S 27	11 45	7 19	4 42	14 42	1 16	7 56	6 2	0s12	0 16	23 0	0 27	8 57	2 35	8 25	0 28	15 49	1 5	11 4	16 42	23 31	23 35	4 31			n.a.
M28	11 24	11 41	4 11	15 5	0 56	8 12	6 11	0 29	0 15	22 59	0 28	8 57	2 35	8 26	0 28	15 50	1 5	11 4	16 42	23 31	23 35	4 33			n.a.
T 29	11 3	15 38	3 29	15 25	0 37	8 27	6 20	0 46	0 14	22 57	0 28	8 56	2 35	8 27	0 28	15 50	1 5	11 5	16 42	23 32	23 35	4 36			n.a.
W30	10 42	19 0	2 37	15 42	0 19	8 41	6 29	1 3	0 13	22 56	0 28	8 55	2 36	8 28	0 28	15 51	1 5	11 5	16 42	23 32	23 36	4 39			n.a.
T 31	10n20	21n35	1s38	15n54	0s 1	8s55	6s37	1s21	0n13	22n55	0n28	8n54	2s36	8s29	0n28	15s51	1s 5	11s 6	16s43	23n32	23n36	4n41			n.a.

Julian Day Number = 1677074.5, Delta T = 03h17m28s
Ecliptic obliquity = 23°42'34, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'33, Lahiri = - 5°37'32 Julian Calendar 1 Aug. 122 BCE == Greg. Calendar 29 July 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

SEPTEMBER 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 25 55	4♍28'10	1♋ 1	17♌24	7♎19	4♎31	18♋27	29°R13	22♎42	20°R27	10°R34	6°R57	5♋26	23♈38	n.a.	F 1
S 2	22 29 51	5°27'17	14° 0	17°58	7°29	5°13	18°38	29♈12	22°45	20♒26	10♈34	6♋56	5°23	23°45	n.a.	S 2
S 3	22 33 48	6°26'27	27°25	18°40	7°37	5°54	18°48	29°10	22°48	20°24	10°33	6°55	5°19	23°52	n.a.	S 3
M 4	22 37 44	7°25'39	11♌18	19°32	7°43	6°36	18°59	29° 8	22°50	20°23	10°32	6°50	5°16	23°58	n.a.	M 4
T 5	22 41 41	8°24'53	25°36	20°30	7°46	7°18	19°10	29° 6	22°53	20°21	10°31	6°44	5°13	24° 5	n.a.	T 5
W 6	22 45 38	9°24'09	10♍16	21°36	7°R47	8° 0	19°20	29° 3	22°56	20°19	10°30	6°35	5°10	24°12	n.a.	W 6
T 7	22 49 34	10°23'27	25°11	22°49	7°46	8°41	19°31	29° 1	22°59	20°18	10°29	6°25	5° 7	24°18	n.a.	T 7
F 8	22 53 31	11°22'47	10♎10	24° 6	7°43	9°23	19°41	28°59	23° 2	20°16	10°28	6°15	5° 3	24°25	n.a.	F 8
S 9	22 57 27	12°22'10	25° 5	25°29	7°37	10° 5	19°52	28°56	23° 5	20°15	10°27	6° 7	5° 0	24°32	n.a.	S 9
S 10	23 1 24	13°21'34	9♏48	26°56	7°29	10°47	20° 2	28°53	23° 8	20°13	10°26	6° 0	4°57	24°39	n.a.	S 10
M11	23 5 20	14°21'00	24°12	28°26	7°18	11°29	20°12	28°51	23°11	20°12	10°25	5°56	4°54	24°45	n.a.	M11
T 12	23 9 17	15°20'28	8♐16	29°59	7° 5	12°12	20°22	28°48	23°15	20°10	10°24	5°55	4°51	24°52	n.a.	T 12
W13	23 13 13	16°19'58	21°59	1♍35	6°49	12°54	20°32	28°45	23°18	20° 9	10°23	5°D55	4°48	24°59	n.a.	W13
T 14	23 17 10	17°19'30	5♑22	3°13	6°32	13°36	20°42	28°42	23°21	20° 8	10°22	5°R55	4°44	25° 5	n.a.	T 14
F 15	23 21 7	18°19'03	18°28	4°52	6°12	14°18	20°51	28°39	23°24	20° 6	10°21	5°54	4°41	25°12	n.a.	F 15
S 16	23 25 3	19°18'39	1♒20	6°33	5°49	15° 1	21° 1	28°36	23°27	20° 5	10°20	5°52	4°38	25°19	n.a.	S 16
S 17	23 29 0	20°18'16	13°59	8°15	5°25	15°43	21°11	28°33	23°31	20° 3	10°19	5°47	4°35	25°26	n.a.	S 17
M18	23 32 56	21°17'55	26°27	9°57	4°58	16°26	21°20	28°29	23°34	20° 2	10°18	5°38	4°32	25°32	n.a.	M18
T 19	23 36 53	22°17'36	8♓47	11°39	4°30	17° 9	21°29	28°26	23°37	20° 1	10°17	5°27	4°29	25°39	n.a.	T 19
W20	23 40 49	23°17'19	20°58	13°22	4° 0	17°51	21°38	28°22	23°41	19°59	10°16	5°14	4°25	25°46	n.a.	W20
T 21	23 44 46	24°17'04	3♈ 3	15° 5	3°28	18°34	21°47	28°19	23°44	19°58	10°15	5° 0	4°22	25°52	n.a.	T 21
F 22	23 48 42	25°16'51	15° 1	16°48	2°55	19°17	21°56	28°15	23°47	19°57	10°13	4°46	4°19	25°59	n.a.	F 22
S 23	23 52 39	26°16'41	26°54	18°31	2°21	20° 0	22° 5	28°11	23°51	19°55	10°12	4°33	4°16	26° 6	n.a.	S 23
S 24	23 56 35	27°16'32	8♉44	20°13	1°46	20°43	22°14	28° 8	23°54	19°54	10°11	4°23	4°13	26°13	n.a.	S 24
M25	0 0 32	28°16'26	20°34	21°56	1°10	21°25	22°23	28° 4	23°58	19°53	10°10	4°15	4° 9	26°19	n.a.	M25
T 26	0 4 29	29°16'22	2♊28	23°38	0°34	22° 9	22°31	28° 0	24° 1	19°52	10° 9	4°10	4° 6	26°26	n.a.	T 26
W27	0 8 25	0♎16'21	14°28	25°19	29♍57	22°52	22°39	27°56	24° 4	19°51	10° 8	4° 8	4° 3	26°33	n.a.	W27
T 28	0 12 22	1°16'21	26°41	27° 0	29°21	23°35	22°48	27°52	24° 8	19°49	10° 7	4° 7	4° 0	26°39	n.a.	T 28
F 29	0 16 18	2°16'24	9♋12	28°41	28°44	24°18	22°56	27°48	24°11	19°48	10° 6	4° 7	3°57	26°46	n.a.	F 29
S 30	0 20 15	3♎16'30	22♋ 5	0♎21	28♍ 9	25♎ 1	23♋ 4	27♈43	24♎15	19♒47	10♈ 5	4♋ 6	3♋54	26♈53	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n59	23n11	0s32	16n 2	0n15	9s 7	6s45	1s38	0n12	22n53	0n28	8n54	2s36	8s30	0n28	15s52	1s 5	11s 6	16s43	23n32	23n36	4n44		n.a.
S 2	9 37	23 35	0n38	16 6	0 30	9 19	6 54	1 55	0 11	22 52	0 28	8 53	2 36	8 31	0 28	15 52	1 5	11 7	16 43	23 32	23 36	4 47		n.a.
S 3	9 15	22 40	1 47	16 6	0 44	9 29	7 2	2 12	0 11	22 51	0 28	8 52	2 36	8 32	0 28	15 53	1 5	11 7	16 43	23 32	23 36	4 50		n.a.
M 4	8 53	20 21	2 52	16 2	0 57	9 39	7 9	2 30	0 10	22 49	0 29	8 51	2 37	8 33	0 28	15 53	1 5	11 8	16 43	23 32	23 36	4 52		n.a.
T 5	8 30	16 43	3 49	15 54	1 8	9 47	7 17	2 47	0 9	22 48	0 29	8 50	2 37	8 34	0 28	15 54	1 5	11 9	16 44	23 32	23 36	4 55		n.a.
W 6	8 8	11 59	4 32	15 42	1 18	9 54	7 24	3 4	0 9	22 46	0 29	8 49	2 37	8 35	0 28	15 54	1 5	11 9	16 44	23 33	23 36	4 58		n.a.
T 7	7 45	6 28	4 57	15 26	1 27	10 0	7 31	3 22	0 8	22 45	0 29	8 48	2 37	8 36	0 28	15 55	1 5	11 10	16 44	23 33	23 37	5 1		n.a.
F 8	7 23	0 33	5 2	15 7	1 35	10 4	7 37	3 39	0 7	22 44	0 29	8 47	2 37	8 38	0 28	15 55	1 5	11 10	16 44	23 34	23 37	5 3		n.a.
S 9	7 0	5s22	4 47	14 45	1 41	10 7	7 43	3 56	0 7	22 42	0 29	8 46	2 38	8 39	0 28	15 56	1 5	11 11	16 44	23 34	23 37	5 6		n.a.
S 10	6 37	10 56	4 12	14 20	1 46	10 9	7 48	4 14	0 6	22 41	0 30	8 45	2 38	8 40	0 28	15 56	1 5	11 11	16 44	23 34	23 37	5 9		n.a.
M11	6 14	15 46	3 22	13 52	1 50	10 9	7 54	4 31	0 5	22 40	0 30	8 44	2 38	8 41	0 28	15 57	1 5	11 12	16 44	23 34	23 37	5 12		n.a.
T 12	5 50	19 37	2 21	13 22	1 53	10 8	7 58	4 48	0 4	22 38	0 30	8 42	2 38	8 42	0 28	15 57	1 5	11 12	16 45	23 35	23 37	5 14		n.a.
W13	5 27	22 15	1 13	12 50	1 56	10 6	8 2	5 5	0 4	22 37	0 30	8 41	2 38	8 43	0 28	15 58	1 5	11 13	16 45	23 35	23 37	5 17		n.a.
T 14	5 4	23 33	0 3	12 15	1 57	10 1	8 5	5 23	0 3	22 36	0 30	8 40	2 39	8 45	0 28	15 58	1 5	11 13	16 45	23 35	23 37	5 20		n.a.
F 15	4 40	23 31	1s 6	11 39	1 57	9 56	8 8	5 40	0 2	22 34	0 30	8 39	2 39	8 46	0 28	15 59	1 5	11 14	16 45	23 35	23 38	5 22		n.a.
S 16	4 17	22 12	2 10	11 1	1 57	9 49	8 10	5 57	0 2	22 33	0 31	8 38	2 39	8 47	0 27	15 59	1 5	11 14	16 45	23 35	23 38	5 25		n.a.
S 17	3 53	19 48	3 7	10 22	1 56	9 40	8 11	6 14	0 1	22 32	0 31	8 36	2 39	8 48	0 27	15 59	1 5	11 15	16 45	23 35	23 38	5 28		n.a.
M18	3 29	16 29	3 54	9 41	1 54	9 30	8 11	6 32	0 0	22 30	0 31	8 35	2 39	8 50	0 27	16 0	1 5	11 15	16 45	23 35	23 38	5 31		n.a.
T 19	3 5	12 30	4 29	9 0	1 52	9 18	8 11	6 49	0s 0	22 29	0 31	8 34	2 39	8 51	0 27	16 0	1 5	11 16	16 45	23 36	23 38	5 33		n.a.
W20	2 42	8 4	4 51	8 17	1 50	9 5	8 10	7 6	0 1	22 28	0 31	8 32	2 39	8 52	0 27	16 1	1 5	11 16	16 45	23 36	23 38	5 36		n.a.
T 21	2 18	3 21	5 0	7 34	1 46	8 50	8 8	7 23	0 2	22 26	0 31	8 31	2 40	8 53	0 27	16 1	1 5	11 17	16 46	23 37	23 38	5 39		n.a.
F 22	1 54	1n27	4 55	6 51	1 43	8 34	8 5	7 40	0 2	22 25	0 32	8 29	2 40	8 55	0 27	16 2	1 5	11 17	16 46	23 37	23 38	5 42		n.a.
S 23	1 30	6 10	4 38	6 6	1 39	8 16	8 1	7 57	0 3	22 24	0 32	8 28	2 40	8 56	0 27	16 2	1 5	11 18	16 46	23 38	23 38	5 44		n.a.
S 24	1 6	10 39	4 8	5 22	1 34	7 58	7 56	8 14	0 4	22 23	0 32	8 26	2 40	8 57	0 27	16 2	1 5	11 18	16 46	23 38	23 39	5 47		n.a.
M25	0 42	14 45	3 28	4 36	1 30	7 38	7 50	8 31	0 4	22 21	0 32	8 25	2 40	8 59	0 27	16 3	1 5	11 19	16 46	23 38	23 39	5 50		n.a.
T 26	0 18	18 17	2 39	3 51	1 25	7 17	7 43	8 48	0 5	22 20	0 32	8 23	2 40	9 0	0 27	16 3	1 5	11 19	16 46	23 39	23 39	5 53		n.a.
W27	0s 7	21 6	1 42	3 6	1 20	6 56	7 36	9 4	0 6	22 19	0 33	8 22	2 40	9 1	0 27	16 3	1 5	11 20	16 46	23 39	23 39	5 55		n.a.
T 28	0 31	23 1	0 39	2 20	1 14	6 34	7 27	9 21	0 6	22 18	0 33	8 20	2 40	9 2	0 27	16 4	1 5	11 20	16 46	23 39	23 39	5 58		n.a.
F 29	0 55	23 50	0n27	1 34	1 8	6 11	7 18	9 38	0 7	22 17	0 33	8 19	2 41	9 4	0 27	16 4	1 5	11 20	16 46	23 39	23 39	6 1		n.a.
S 30	1s19	23n25	1n33	0n49	1n 3	5s47	7s 8	9s55	0s 8	22n15	0n33	8n17	2s41	9s 5	0n27	16s 4	1s 5	11s21	16s46	23n39	23n39	6n 3		n.a.

Julian Day Number = 1677105.5, Delta T = 03h17m27s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'28, Lahiri = - 5°37'28 Julian Calendar 1 Sept. 122 BCE == Greg. Calendar 29 Aug. 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

OCTOBER 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 24 11	4♎16'37	5♌26	2♎ 1	27°R34	25♎45	23♋12	27°R39	24♎19	19°R46	10°R 3	4°R 4	3♋50	26♈59	n.a.	S 1
M 2	0 28 8	5°16'47	19°16	3°40	27♍ 0	26°28	23°19	27♈35	24°22	19♒45	10♈ 2	3♋59	3°47	27° 6	n.a.	M 2
T 3	0 32 4	6°16'58	3♍37	5°19	26°27	27°12	23°27	27°30	24°26	19°44	10° 1	3°51	3°44	27°13	n.a.	T 3
W 4	0 36 1	7°17'12	18°24	6°57	25°56	27°55	23°34	27°26	24°29	19°43	10° 0	3°41	3°41	27°20	n.a.	W 4
T 5	0 39 58	8°17'28	3♎31	8°35	25°26	28°39	23°42	27°21	24°33	19°42	9°59	3°30	3°38	27°26	n.a.	T 5
F 6	0 43 54	9°17'46	18°48	10°12	24°58	29°22	23°49	27°17	24°37	19°41	9°58	3°18	3°35	27°33	n.a.	F 6
S 7	0 47 51	10°18'05	4♏ 3	11°49	24°32	0♏ 6	23°56	27°12	24°40	19°40	9°57	3° 8	3°31	27°40	n.a.	S 7
S 8	0 51 47	11°18'26	19° 6	13°26	24° 8	0°50	24° 3	27° 8	24°44	19°39	9°56	3° 0	3°28	27°46	n.a.	S 8
M 9	0 55 44	12°18'49	3♐48	15° 2	23°46	1°34	24° 9	27° 3	24°48	19°38	9°54	2°55	3°25	27°53	n.a.	M 9
T 10	0 59 40	13°19'14	18° 4	16°38	23°26	2°18	24°16	26°58	24°51	19°38	9°53	2°52	3°22	28° 0	n.a.	T 10
W11	1 3 37	14°19'40	1♑54	18°13	23° 9	3° 2	24°22	26°54	24°55	19°37	9°52	2°D52	3°19	28° 7	n.a.	W11
T 12	1 7 33	15°20'07	15°18	19°48	22°54	3°46	24°29	26°49	24°59	19°36	9°51	2°R52	3°15	28°13	n.a.	T 12
F 13	1 11 30	16°20'36	28°20	21°23	22°41	4°30	24°35	26°44	25° 2	19°35	9°50	2°51	3°12	28°20	n.a.	F 13
S 14	1 15 27	17°21'06	11♒ 3	22°57	22°31	5°14	24°41	26°39	25° 6	19°35	9°49	2°49	3° 9	28°27	n.a.	S 14
S 15	1 19 23	18°21'38	23°31	24°31	22°23	5°58	24°47	26°34	25°10	19°34	9°48	2°44	3° 6	28°33	n.a.	S 15
M16	1 23 20	19°22'11	5♓48	26° 5	22°18	6°42	24°52	26°29	25°13	19°33	9°47	2°36	3° 3	28°40	n.a.	M16
T 17	1 27 16	20°22'45	17°56	27°39	22°16	7°27	24°58	26°25	25°17	19°33	9°45	2°26	3° 0	28°47	n.a.	T 17
W18	1 31 13	21°23'21	29°57	29°12	22°D15	8°11	25° 3	26°20	25°21	19°32	9°44	2°13	2°56	28°54	n.a.	W18
T 19	1 35 9	22°23'59	11♈54	0♏45	22°17	8°56	25° 8	26°15	25°25	19°31	9°43	2° 0	2°53	29° 0	n.a.	T 19
F 20	1 39 6	23°24'37	23°48	2°17	22°22	9°40	25°13	26°10	25°28	19°31	9°42	1°46	2°50	29° 7	n.a.	F 20
S 21	1 43 2	24°25'18	5♉39	3°50	22°29	10°25	25°18	26° 5	25°32	19°30	9°41	1°34	2°47	29°14	n.a.	S 21
S 22	1 46 59	25°26'00	17°31	5°22	22°38	11° 9	25°23	26° 0	25°36	19°30	9°40	1°24	2°44	29°20	n.a.	S 22
M23	1 50 55	26°26'43	29°23	6°54	22°49	11°54	25°27	25°55	25°40	19°30	9°39	1°16	2°40	29°27	n.a.	M23
T 24	1 54 52	27°27'29	11♊19	8°26	23° 3	12°38	25°32	25°50	25°43	19°29	9°38	1°11	2°37	29°34	n.a.	T 24
W25	1 58 49	28°28'16	23°22	9°58	23°19	13°23	25°36	25°45	25°47	19°29	9°37	1° 9	2°34	29°41	n.a.	W25
T 26	2 2 45	29°29'04	5♋36	11°29	23°36	14° 8	25°40	25°40	25°51	19°28	9°36	1°D 9	2°31	29°47	n.a.	T 26
F 27	2 6 42	0♏29'54	18° 4	13° 0	23°56	14°53	25°43	25°35	25°54	19°28	9°35	1°10	2°28	29°54	n.a.	F 27
S 28	2 10 38	1°30'46	0♌53	14°31	24°18	15°38	25°47	25°30	25°58	19°28	9°33	1°R10	2°25	0♉ 1	n.a.	S 28
S 29	2 14 35	2°31'39	14° 6	16° 2	24°42	16°23	25°51	25°25	26° 2	19°28	9°32	1°10	2°21	0° 7	n.a.	S 29
M30	2 18 31	3°32'34	27°46	17°32	25° 7	17° 8	25°54	25°21	26° 6	19°27	9°31	1° 7	2°18	0°14	n.a.	M30
T 31	2 22 28	4♏33'30	11♍56	19♏ 2	25♍34	17♏53	25♋57	25♈16	26♎ 9	19♒27	9♈30	1♋ 2	2♋15	0♉21	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	1s43	21n40	2n37	0n 3	0n57	5s23	6s57	10s11	0s 8	22n14	0n33	8n15	2s41	9s 6	0n27	16s 5	1s 5	11s21	16s46	23n39	23n39	6n 6			n.a.
M 2	2 7	18 36	3 34	0s42	0 50	4 59	6 46	10 28	0 9	22 13	0 33	8 14	2 41	9 8	0 27	16 5	1 5	11 22	16 46	23 39	23 39	6 9			n.a.
T 3	2 31	14 19	4 20	1 27	0 44	4 35	6 34	10 44	0 10	22 12	0 34	8 12	2 41	9 9	0 27	16 5	1 5	11 22	16 46	23 39	23 39	6 12			n.a.
W 4	2 55	9 4	4 50	2 13	0 38	4 11	6 21	11 1	0 10	22 11	0 34	8 10	2 41	9 10	0 27	16 6	1 5	11 23	16 46	23 39	23 39	6 14			n.a.
T 5	3 19	3 10	5 0	2 57	0 32	3 47	6 8	11 17	0 11	22 10	0 34	8 9	2 41	9 12	0 27	16 6	1 5	11 23	16 46	23 40	23 40	6 17			n.a.
F 6	3 43	2s59	4 49	3 42	0 25	3 24	5 55	11 33	0 12	22 9	0 34	8 7	2 41	9 13	0 27	16 6	1 5	11 24	16 46	23 40	23 40	6 20			n.a.
S 7	4 7	8 58	4 18	4 27	0 19	3 1	5 41	11 50	0 12	22 8	0 34	8 5	2 41	9 15	0 27	16 7	1 5	11 24	16 46	23 40	23 40	6 23			n.a.
S 8	4 31	14 20	3 29	5 11	0 12	2 38	5 27	12 6	0 13	22 7	0 35	8 4	2 41	9 16	0 27	16 7	1 5	11 24	16 46	23 41	23 40	6 25			n.a.
M 9	4 55	18 44	2 27	5 54	0 5	2 16	5 12	12 22	0 14	22 6	0 35	8 2	2 41	9 17	0 27	16 7	1 5	11 25	16 46	23 41	23 40	6 28			n.a.
T 10	5 19	21 53	1 17	6 38	0s 1	1 55	4 58	12 38	0 14	22 5	0 35	8 0	2 41	9 19	0 27	16 7	1 5	11 25	16 46	23 41	23 40	6 31			n.a.
W11	5 43	23 37	0 5	7 21	0 8	1 34	4 43	12 54	0 15	22 4	0 35	7 58	2 41	9 20	0 27	16 8	1 5	11 26	16 46	23 41	23 40	6 34			n.a.
T 12	6 6	23 54	1s 5	8 3	0 14	1 15	4 28	13 9	0 15	22 3	0 36	7 57	2 41	9 21	0 27	16 8	1 5	11 26	16 46	23 41	23 40	6 36			n.a.
F 13	6 30	22 51	2 11	8 45	0 21	0 56	4 13	13 25	0 16	22 2	0 36	7 55	2 41	9 23	0 27	16 8	1 5	11 26	16 46	23 41	23 40	6 39			n.a.
S 14	6 53	20 39	3 7	9 27	0 27	0 39	3 58	13 41	0 17	22 1	0 36	7 53	2 41	9 24	0 27	16 8	1 5	11 27	16 46	23 41	23 40	6 42			n.a.
S 15	7 17	17 30	3 54	10 8	0 34	0 22	3 44	13 56	0 17	22 0	0 36	7 51	2 41	9 26	0 27	16 8	1 5	11 27	16 46	23 41	23 40	6 45			n.a.
M16	7 40	13 39	4 29	10 49	0 40	0 6	3 29	14 11	0 18	22 0	0 36	7 50	2 41	9 27	0 27	16 9	1 5	11 28	16 46	23 41	23 40	6 47			n.a.
T 17	8 3	9 17	4 52	11 29	0 47	0n 8	3 14	14 27	0 19	21 59	0 37	7 48	2 41	9 28	0 27	16 9	1 5	11 28	16 46	23 41	23 41	6 50			n.a.
W18	8 26	4 36	5 1	12 8	0 53	0 21	3 0	14 42	0 19	21 58	0 37	7 46	2 41	9 30	0 27	16 9	1 5	11 28	16 45	23 41	23 41	6 53			n.a.
T 19	8 49	0n13	4 57	12 47	0 59	0 33	2 46	14 57	0 20	21 57	0 37	7 44	2 41	9 31	0 27	16 9	1 5	11 29	16 45	23 42	23 41	6 55			n.a.
F 20	9 12	5 1	4 40	13 25	1 5	0 44	2 32	15 12	0 21	21 57	0 37	7 43	2 41	9 32	0 27	16 9	1 5	11 29	16 45	23 42	23 41	6 58			n.a.
S 21	9 34	9 37	4 10	14 3	1 11	0 54	2 18	15 27	0 21	21 56	0 37	7 41	2 41	9 34	0 27	16 9	1 5	11 29	16 45	23 42	23 41	7 1			n.a.
S 22	9 57	13 53	3 30	14 40	1 17	1 3	2 5	15 41	0 22	21 55	0 38	7 39	2 41	9 35	0 27	16 10	1 5	11 30	16 45	23 42	23 41	7 4			n.a.
M23	10 19	17 38	2 41	15 16	1 22	1 11	1 52	15 56	0 22	21 55	0 38	7 37	2 41	9 37	0 27	16 10	1 5	11 30	16 45	23 42	23 41	7 6			n.a.
T 24	10 41	20 41	1 44	15 52	1 28	1 17	1 39	16 10	0 23	21 54	0 38	7 35	2 41	9 38	0 27	16 10	1 5	11 30	16 45	23 42	23 41	7 9			n.a.
W25	11 3	22 51	0 41	16 26	1 33	1 22	1 26	16 25	0 24	21 53	0 38	7 34	2 41	9 39	0 27	16 10	1 5	11 30	16 45	23 42	23 41	7 12			n.a.
T 26	11 25	23 59	0n24	17 0	1 38	1 26	1 14	16 39	0 24	21 53	0 39	7 32	2 41	9 41	0 27	16 10	1 5	11 31	16 45	23 42	23 41	7 15			n.a.
F 27	11 47	23 57	1 29	17 33	1 43	1 29	1 2	16 53	0 25	21 52	0 39	7 30	2 41	9 42	0 27	16 10	1 4	11 31	16 44	23 42	23 41	7 17			n.a.
S 28	12 8	22 40	2 32	18 6	1 48	1 31	0 50	17 7	0 26	21 52	0 39	7 29	2 41	9 43	0 27	16 10	1 4	11 31	16 44	23 42	23 41	7 20			n.a.
S 29	12 29	20 7	3 29	18 37	1 53	1 32	0 39	17 20	0 26	21 52	0 39	7 27	2 41	9 45	0 27	16 10	1 4	11 32	16 44	23 42	23 41	7 23			n.a.
M30	12 50	16 22	4 16	19 7	1 57	1 32	0 28	17 34	0 27	21 51	0 40	7 25	2 41	9 46	0 27	16 10	1 4	11 32	16 44	23 42	23 41	7 25			n.a.
T 31	13s11	11n36	4n49	19s37	2s 1	1n31	0s17	17s47	0s27	21n51	0n40	7n23	2s41	9s48	0n27	16s10	1s 4	11s32	16s44	23n42	23n41	7n28			n.a.

Julian Day Number = 1677135.5, Delta T = 03h17m26s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'24, Lahiri = - 5°37'24 Julian Calendar 1 Oct. 122 BCE == Greg. Calendar 28 Sept. 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

NOVEMBER 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 26 24	5♏34'28	26♍33	20♏32	26♍ 3	18♏38	26♋ 0	25°R11	26♎13	19°R27	9°R29	0°R55	2♋12	0♉27	n.a.	W 1
T 2	2 30 21	6°35'27	11♎34	22° 1	26°34	19°23	26° 2	25♈ 6	26°17	19♒27	9♈28	0♋46	2° 9	0°34	n.a.	T 2
F 3	2 34 18	7°36'27	26°49	23°30	27° 6	20° 8	26° 5	25° 1	26°20	19°27	9°27	0°38	2° 6	0°41	n.a.	F 3
S 4	2 38 14	8°37'28	12♏ 9	24°58	27°39	20°54	26° 7	24°57	26°24	19°D27	9°26	0°30	2° 2	0°48	n.a.	S 4
S 5	2 42 11	9°38'31	27°21	26°26	28°14	21°39	26° 9	24°52	26°28	19°27	9°25	0°24	1°59	0°54	n.a.	S 5
M 6	2 46 7	10°39'34	12♐16	27°53	28°51	22°24	26°11	24°47	26°31	19°27	9°24	0°20	1°56	1° 1	n.a.	M 6
T 7	2 50 4	11°40'39	26°46	29°20	29°28	23°10	26°13	24°43	26°35	19°27	9°24	0°D19	1°53	1° 8	n.a.	T 7
W 8	2 54 0	12°41'44	10♑49	0♐45	0♎ 7	23°55	26°15	24°38	26°39	19°27	9°23	0°19	1°50	1°14	n.a.	W 8
T 9	2 57 57	13°42'50	24°23	2° 9	0°47	24°41	26°16	24°33	26°42	19°27	9°22	0°20	1°46	1°21	n.a.	T 9
F 10	3 1 54	14°43'56	7♒31	3°32	1°29	25°27	26°17	24°29	26°46	19°28	9°21	0°21	1°43	1°28	n.a.	F 10
S 11	3 5 50	15°45'03	20°16	4°53	2°11	26°12	26°18	24°24	26°50	19°28	9°20	0°R22	1°40	1°35	n.a.	S 11
S 12	3 9 47	16°46'10	2♓42	6°13	2°55	26°58	26°19	24°20	26°53	19°28	9°19	0°20	1°37	1°41	n.a.	S 12
M13	3 13 43	17°47'18	14°55	7°30	3°40	27°44	26°20	24°16	26°57	19°28	9°18	0°17	1°34	1°48	n.a.	M13
T 14	3 17 40	18°48'26	26°57	8°45	4°25	28°29	26°20	24°11	27° 0	19°29	9°17	0°11	1°31	1°55	n.a.	T 14
W15	3 21 36	19°49'35	8♈52	9°58	5°12	29°15	26°20	24° 7	27° 4	19°29	9°16	0° 4	1°27	2° 1	n.a.	W15
T 16	3 25 33	20°50'44	20°45	11° 7	6° 0	0♐ 1	26°R20	24° 3	27° 7	19°29	9°16	29♊57	1°24	2° 8	n.a.	T 16
F 17	3 29 29	21°51'54	2♉36	12°12	6°48	0°47	26°20	23°59	27°11	19°30	9°15	29°49	1°21	2°15	n.a.	F 17
S 18	3 33 26	22°53'04	14°28	13°13	7°38	1°33	26°20	23°55	27°14	19°30	9°14	29°42	1°18	2°21	n.a.	S 18
S 19	3 37 23	23°54'15	26°23	14° 8	8°28	2°19	26°19	23°51	27°18	19°31	9°13	29°36	1°15	2°28	n.a.	S 19
M20	3 41 19	24°55'26	8♊22	14°58	9°19	3° 5	26°18	23°47	27°21	19°31	9°13	29°32	1°12	2°35	n.a.	M20
T 21	3 45 16	25°56'38	20°27	15°42	10°11	3°51	26°17	23°43	27°25	19°32	9°12	29°30	1° 8	2°42	n.a.	T 21
W22	3 49 12	26°57'51	2♋40	16°18	11° 3	4°37	26°16	23°40	27°28	19°33	9°11	29°D29	1° 5	2°48	n.a.	W22
T 23	3 53 9	27°59'04	15° 3	16°45	11°57	5°23	26°15	23°36	27°31	19°33	9°10	29°30	1° 2	2°55	n.a.	T 23
F 24	3 57 5	29° 0'17	27°39	17° 3	12°51	6° 9	26°13	23°33	27°35	19°34	9°10	29°32	0°59	3° 2	n.a.	F 24
S 25	4 1 2	0♐ 1'31	10♌32	17°R12	13°45	6°55	26°11	23°29	27°38	19°35	9° 9	29°34	0°56	3° 8	n.a.	S 25
S 26	4 4 58	1° 2'46	23°43	17° 9	14°41	7°42	26°10	23°26	27°41	19°35	9° 8	29°35	0°52	3°15	n.a.	S 26
M27	4 8 55	2° 4'01	7♍16	16°55	15°37	8°28	26° 7	23°22	27°45	19°36	9° 8	29°R35	0°49	3°22	n.a.	M27
T 28	4 12 52	3° 5'17	21°12	16°29	16°33	9°14	26° 5	23°19	27°48	19°37	9° 7	29°34	0°46	3°28	n.a.	T 28
W29	4 16 48	4° 6'33	5♎32	15°51	17°30	10° 1	26° 3	23°16	27°51	19°38	9° 7	29°32	0°43	3°35	n.a.	W29
T 30	4 20 45	5♐ 7'49	20♎12	15♐ 3	18♎28	10♐47	26♋ 0	23♈13	27♎54	19♒39	9♈ 6	29♊28	0♋40	3♉42	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s32	6n 2	5n 5	20s 5	2s 5	1n29	0s 7	18s 1	0s28	21n51	0n40	7n22	2s41	9s49	0n27	16s10	1s 4	11s32	16s44	23n42	23n41	7n31		n.a.
T 2	13 52	0s 1	5 0	20 32	2 8	1 26	0n 3	18 14	0 29	21 50	0 40	7 20	2 40	9 50	0 27	16 10	1 4	11 33	16 43	23 42	23 42	7 34		n.a.
F 3	14 12	6 11	4 35	20 58	2 11	1 22	0 13	18 27	0 29	21 50	0 40	7 18	2 40	9 52	0 27	16 10	1 4	11 33	16 43	23 42	23 42	7 36		n.a.
S 4	14 32	12 1	3 49	21 23	2 14	1 17	0 23	18 40	0 30	21 50	0 41	7 17	2 40	9 53	0 27	16 10	1 4	11 33	16 43	23 43	23 42	7 39		n.a.
S 5	14 52	17 4	2 48	21 47	2 16	1 12	0 32	18 52	0 30	21 50	0 41	7 15	2 40	9 54	0 27	16 10	1 4	11 33	16 43	23 43	23 42	7 42		n.a.
M 6	15 11	20 56	1 36	22 9	2 18	1 5	0 40	19 5	0 31	21 49	0 41	7 14	2 40	9 56	0 27	16 10	1 4	11 33	16 43	23 43	23 42	7 45		n.a.
T 7	15 30	23 21	0 19	22 30	2 20	0 58	0 49	19 17	0 32	21 49	0 41	7 12	2 40	9 57	0 27	16 10	1 4	11 34	16 42	23 43	23 42	7 47		n.a.
W 8	15 49	24 12	0s56	22 50	2 21	0 49	0 57	19 29	0 32	21 49	0 42	7 10	2 40	9 58	0 27	16 10	1 4	11 34	16 42	23 43	23 42	7 50		n.a.
T 9	16 8	23 33	2 6	23 8	2 21	0 40	1 5	19 41	0 33	21 49	0 42	7 9	2 40	10 0	0 27	16 10	1 4	11 34	16 42	23 43	23 42	7 53		n.a.
F 10	16 26	21 37	3 7	23 24	2 21	0 31	1 13	19 53	0 33	21 49	0 42	7 7	2 39	10 1	0 27	16 10	1 4	11 34	16 42	23 43	23 42	7 56		n.a.
S 11	16 44	18 38	3 57	23 39	2 20	0 20	1 20	20 4	0 34	21 49	0 42	7 6	2 39	10 2	0 27	16 10	1 4	11 34	16 42	23 43	23 42	7 58		n.a.
S 12	17 2	14 53	4 34	23 52	2 19	0 9	1 27	20 15	0 34	21 49	0 43	7 4	2 39	10 4	0 27	16 10	1 4	11 34	16 41	23 43	23 42	8 1		n.a.
M13	17 20	10 35	4 58	24 4	2 17	0s 3	1 34	20 27	0 35	21 50	0 43	7 3	2 39	10 5	0 27	16 10	1 4	11 34	16 41	23 43	23 42	8 4		n.a.
T 14	17 37	5 56	5 9	24 13	2 14	0 15	1 40	20 37	0 36	21 50	0 43	7 2	2 39	10 6	0 27	16 9	1 4	11 35	16 41	23 43	23 42	8 6		n.a.
W15	17 54	1 7	5 6	24 21	2 11	0 28	1 46	20 48	0 36	21 50	0 43	7 0	2 39	10 7	0 27	16 9	1 4	11 35	16 41	23 43	23 42	8 9		n.a.
T 16	18 10	3n43	4 49	24 27	2 6	0 42	1 52	20 59	0 37	21 50	0 44	6 59	2 38	10 9	0 27	16 9	1 4	11 35	16 40	23 43	23 42	8 12		n.a.
F 17	18 26	8 26	4 21	24 30	2 1	0 56	1 58	21 9	0 37	21 50	0 44	6 58	2 38	10 10	0 27	16 9	1 4	11 35	16 40	23 43	23 42	8 15		n.a.
S 18	18 42	12 51	3 41	24 32	1 54	1 10	2 3	21 19	0 38	21 51	0 44	6 56	2 38	10 11	0 27	16 9	1 4	11 35	16 40	23 43	23 42	8 17		n.a.
S 19	18 58	16 48	2 51	24 31	1 47	1 26	2 8	21 29	0 38	21 51	0 44	6 55	2 38	10 12	0 27	16 9	1 4	11 35	16 40	23 43	23 42	8 20		n.a.
M20	19 13	20 6	1 53	24 28	1 38	1 42	2 13	21 39	0 39	21 52	0 45	6 54	2 38	10 14	0 27	16 8	1 4	11 35	16 39	23 43	23 42	8 23		n.a.
T 21	19 28	22 33	0 49	24 23	1 28	1 58	2 18	21 48	0 39	21 52	0 45	6 53	2 37	10 15	0 27	16 8	1 4	11 35	16 39	23 43	23 42	8 25		n.a.
W22	19 42	23 58	0n17	24 16	1 17	2 15	2 22	21 57	0 40	21 52	0 45	6 51	2 37	10 16	0 27	16 8	1 4	11 35	16 39	23 43	23 42	8 28		n.a.
T 23	19 56	24 15	1 24	24 6	1 4	2 32	2 27	22 6	0 40	21 53	0 45	6 50	2 37	10 17	0 27	16 8	1 4	11 35	16 39	23 43	23 42	8 31		n.a.
F 24	20 10	23 17	2 28	23 54	0 50	2 49	2 31	22 15	0 41	21 53	0 46	6 49	2 37	10 19	0 27	16 7	1 4	11 35	16 38	23 43	23 42	8 34		n.a.
S 25	20 23	21 6	3 26	23 40	0 35	3 7	2 34	22 24	0 41	21 54	0 46	6 48	2 36	10 20	0 27	16 7	1 4	11 35	16 38	23 43	23 42	8 36		n.a.
S 26	20 36	17 46	4 15	23 23	0 19	3 26	2 38	22 32	0 42	21 55	0 46	6 47	2 36	10 21	0 27	16 7	1 4	11 35	16 38	23 43	23 42	8 39		n.a.
M27	20 49	13 25	4 51	23 4	0 1	3 44	2 41	22 40	0 43	21 55	0 46	6 46	2 36	10 22	0 27	16 7	1 4	11 35	16 37	23 43	23 42	8 42		n.a.
T 28	21 1	8 16	5 11	22 43	0n18	4 3	2 44	22 48	0 43	21 56	0 47	6 45	2 36	10 23	0 27	16 6	1 4	11 35	16 37	23 43	23 42	8 44		n.a.
W29	21 12	2 33	5 12	22 20	0 37	4 23	2 47	22 55	0 44	21 57	0 47	6 44	2 35	10 24	0 27	16 6	1 4	11 35	16 37	23 43	23 42	8 47		n.a.
T 30	21s24	3s27	4n54	21s55	0n57	4s42	2n50	23s 2	0s44	21n57	0n47	6n43	2s35	10s26	0n27	16s 6	1s 4	11s35	16s37	23n43	23n42	8n50		n.a.

Julian Day Number = 1677166.5, Delta T = 03h17m25s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'20, Lahiri = - 5°37'20 Julian Calendar 1 Nov. 122 BCE == Greg. Calendar 29 Oct. 122 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 122 BCE
geocentric

DECEMBER 122 BCE (-121) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 24 41	6♐ 9'05	5♏ 8	14°R 3	19♎26	11♐33	25°R57	23°R10	27♎57	19♒40	9°R 5	29°R25	0♋37	3♉49	n.a.	F 1
S 2	4 28 38	7°10'22	20°11	12♐55	20°25	12°20	25♋54	23♈ 7	28° 0	19°40	9♈ 5	29♊22	0°33	3°55	n.a.	S 2
S 3	4 32 34	8°11'40	5♐13	11°40	21°24	13° 7	25°50	23° 5	28° 4	19°41	9° 4	29°20	0°30	4° 2	n.a.	S 3
M 4	4 36 31	9°12'57	20° 5	10°21	22°24	13°53	25°47	23° 2	28° 7	19°42	9° 4	29°18	0°27	4° 9	n.a.	M 4
T 5	4 40 27	10°14'14	4♑39	9° 0	23°24	14°40	25°43	22°59	28°10	19°44	9° 3	29°D18	0°24	4°15	n.a.	T 5
W 6	4 44 24	11°15'30	18°49	7°40	24°24	15°26	25°40	22°57	28°13	19°45	9° 3	29°19	0°21	4°22	n.a.	W 6
T 7	4 48 21	12°16'47	2♒32	6°23	25°25	16°13	25°36	22°55	28°16	19°46	9° 2	29°20	0°18	4°29	n.a.	T 7
F 8	4 52 17	13°18'02	15°50	5°11	26°27	17° 0	25°31	22°52	28°18	19°47	9° 2	29°22	0°14	4°36	n.a.	F 8
S 9	4 56 14	14°19'18	28°42	4° 7	27°28	17°46	25°27	22°50	28°21	19°48	9° 2	29°23	0°11	4°42	n.a.	S 9
S 10	5 0 10	15°20'32	11♓14	3°12	28°30	18°33	25°22	22°48	28°24	19°49	9° 1	29°R23	0° 8	4°49	n.a.	S 10
M11	5 4 7	16°21'46	23°28	2°26	29°33	19°20	25°18	22°46	28°27	19°50	9° 1	29°23	0° 5	4°56	n.a.	M11
T 12	5 8 3	17°22'59	5♈30	1°50	0♏36	20° 7	25°13	22°44	28°30	19°52	9° 1	29°22	0° 2	5° 2	n.a.	T 12
W13	5 12 0	18°24'12	17°24	1°24	1°39	20°53	25° 8	22°43	28°33	19°53	9° 0	29°21	29♊58	5° 9	n.a.	W13
T 14	5 15 57	19°25'24	29°15	1° 7	2°42	21°40	25° 3	22°41	28°35	19°54	9° 0	29°20	29°55	5°16	n.a.	T 14
F 15	5 19 53	20°26'35	11♉ 6	1°D 0	3°46	22°27	24°57	22°40	28°38	19°56	9° 0	29°18	29°52	5°22	n.a.	F 15
S 16	5 23 50	21°27'46	23° 0	1° 2	4°50	23°14	24°52	22°38	28°41	19°57	8°59	29°17	29°49	5°29	n.a.	S 16
S 17	5 27 46	22°28'56	5♊ 0	1°11	5°55	24° 1	24°46	22°37	28°43	19°58	8°59	29°16	29°46	5°36	n.a.	S 17
M18	5 31 43	23°30'05	17° 9	1°29	6°59	24°48	24°40	22°36	28°46	20° 0	8°59	29°16	29°43	5°42	n.a.	M18
T 19	5 35 39	24°31'14	29°27	1°53	8° 4	25°35	24°34	22°35	28°48	20° 1	8°59	29°D16	29°39	5°49	n.a.	T 19
W20	5 39 36	25°32'22	11♋57	2°23	9° 9	26°22	24°28	22°34	28°51	20° 3	8°59	29°16	29°36	5°56	n.a.	W20
T 21	5 43 32	26°33'29	24°38	2°59	10°15	27° 9	24°22	22°33	28°53	20° 4	8°59	29°16	29°33	6° 3	n.a.	T 21
F 22	5 47 29	27°34'36	7♌33	3°40	11°21	27°56	24°16	22°32	28°56	20° 6	8°58	29°16	29°30	6° 9	n.a.	F 22
S 23	5 51 26	28°35'42	20°41	4°25	12°26	28°43	24° 9	22°32	28°58	20° 7	8°58	29°16	29°27	6°16	n.a.	S 23
S 24	5 55 22	29°36'47	4♍ 3	5°15	13°33	29°30	24° 3	22°31	29° 0	20° 9	8°58	29°R16	29°24	6°23	n.a.	S 24
M25	5 59 19	0♑37'52	17°40	6° 9	14°39	0♑17	23°56	22°31	29° 2	20°10	8°58	29°16	29°20	6°29	n.a.	M25
T 26	6 3 15	1°38'56	1♎33	7° 6	15°46	1° 4	23°49	22°31	29° 5	20°12	8°58	29°D16	29°17	6°36	n.a.	T 26
W27	6 7 12	2°39'59	15°39	8° 6	16°53	1°51	23°42	22°30	29° 7	20°14	8°D58	29°16	29°14	6°43	n.a.	W27
T 28	6 11 8	3°41'02	29°59	9° 8	18° 0	2°39	23°35	22°D30	29° 9	20°15	8°58	29°17	29°11	6°49	n.a.	T 28
F 29	6 15 5	4°42'04	14♏28	10°13	19° 7	3°26	23°28	22°30	29°11	20°17	8°58	29°17	29° 8	6°56	n.a.	F 29
S 30	6 19 1	5°43'06	29° 4	11°21	20°14	4°13	23°21	22°31	29°13	20°19	8°58	29°18	29° 4	7° 3	n.a.	S 30
S 31	6 22 58	6♑44'06	13♐40	12♐31	21♏22	5♑ 0	23♋14	22♈31	29♎15	20♒21	8♈58	29♊18	29♊ 1	7♉10	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21 s35	9 s22	4n15	21 s28	1n17	5 s 2	2n52	23 s10	0 s45	21n58	0n47	6n42	2 s35	10 s27	0n27	16 s 6	1 s 4	11 s35	16 s36	23n43	23n42	8n53		n.a.
S 2	21 45	14 48	3 19	21 0	1 37	5 22	2 54	23 16	0 45	21 59	0 48	6 42	2 35	10 28	0 27	16 5	1 4	11 35	16 36	23 42	23 43	8 55		n.a.
S 3	21 55	19 18	2 9	20 32	1 56	5 43	2 57	23 23	0 46	22 0	0 48	6 41	2 34	10 29	0 27	16 5	1 4	11 35	16 36	23 42	23 43	8 58		n.a.
M 4	22 5	22 30	0 51	20 3	2 13	6 3	2 58	23 29	0 46	22 1	0 48	6 40	2 34	10 30	0 27	16 5	1 3	11 35	16 35	23 42	23 43	9 1		n.a.
T 5	22 14	24 7	0 s29	19 36	2 29	6 24	3 0	23 35	0 46	22 2	0 48	6 39	2 34	10 31	0 27	16 4	1 3	11 34	16 35	23 42	23 43	9 4		n.a.
W 6	22 23	24 7	1 46	19 9	2 43	6 45	3 2	23 41	0 47	22 3	0 49	6 39	2 34	10 32	0 27	16 4	1 3	11 34	16 35	23 42	23 43	9 6		n.a.
T 7	22 31	22 38	2 54	18 45	2 54	7 6	3 3	23 46	0 47	22 4	0 49	6 38	2 33	10 33	0 27	16 3	1 3	11 34	16 34	23 42	23 43	9 9		n.a.
F 8	22 39	19 55	3 50	18 24	3 3	7 28	3 4	23 52	0 48	22 5	0 49	6 37	2 33	10 34	0 27	16 3	1 3	11 34	16 34	23 42	23 43	9 12		n.a.
S 9	22 47	16 18	4 32	18 6	3 10	7 49	3 5	23 57	0 48	22 6	0 49	6 37	2 33	10 35	0 27	16 3	1 3	11 34	16 34	23 42	23 43	9 14		n.a.
S 10	22 54	12 4	5 1	17 52	3 14	8 10	3 6	24 1	0 49	22 7	0 49	6 36	2 33	10 36	0 27	16 2	1 3	11 34	16 33	23 42	23 43	9 17		n.a.
M11	23 0	7 26	5 15	17 41	3 16	8 32	3 6	24 6	0 49	22 8	0 50	6 36	2 32	10 37	0 27	16 2	1 3	11 34	16 33	23 42	23 43	9 20		n.a.
T 12	23 6	2 36	5 15	17 34	3 16	8 54	3 7	24 10	0 50	22 9	0 50	6 36	2 32	10 38	0 27	16 1	1 3	11 33	16 33	23 42	23 43	9 22		n.a.
W13	23 12	2n17	5 1	17 30	3 15	9 15	3 7	24 14	0 50	22 10	0 50	6 35	2 32	10 39	0 27	16 1	1 3	11 33	16 32	23 42	23 43	9 25		n.a.
T 14	23 17	7 3	4 35	17 30	3 11	9 37	3 7	24 17	0 51	22 11	0 50	6 35	2 31	10 40	0 27	16 1	1 3	11 33	16 32	23 42	23 43	9 28		n.a.
F 15	23 22	11 35	3 56	17 33	3 7	9 59	3 8	24 20	0 51	22 13	0 51	6 35	2 31	10 41	0 27	16 0	1 3	11 33	16 32	23 42	23 43	9 31		n.a.
S 16	23 26	15 42	3 8	17 38	3 1	10 20	3 7	24 23	0 51	22 14	0 51	6 34	2 31	10 42	0 27	16 0	1 3	11 33	16 31	23 42	23 43	9 33		n.a.
S 17	23 30	19 14	2 11	17 47	2 55	10 42	3 7	24 26	0 52	22 15	0 51	6 34	2 30	10 43	0 27	15 59	1 3	11 32	16 31	23 42	23 43	9 36		n.a.
M18	23 33	21 58	1 7	17 57	2 48	11 4	3 7	24 29	0 52	22 16	0 51	6 34	2 30	10 44	0 27	15 59	1 3	11 32	16 31	23 42	23 43	9 39		n.a.
T 19	23 36	23 44	0n 1	18 10	2 40	11 25	3 6	24 31	0 53	22 18	0 51	6 34	2 30	10 45	0 27	15 58	1 3	11 32	16 30	23 42	23 43	9 41		n.a.
W20	23 38	24 20	1 10	18 24	2 32	11 47	3 5	24 33	0 53	22 19	0 52	6 34	2 30	10 46	0 27	15 58	1 3	11 32	16 30	23 42	23 43	9 44		n.a.
T 21	23 40	23 40	2 16	18 39	2 23	12 8	3 5	24 34	0 54	22 20	0 52	6 34	2 29	10 47	0 27	15 57	1 3	11 31	16 30	23 42	23 43	9 47		n.a.
F 22	23 41	21 46	3 17	18 56	2 14	12 30	3 4	24 36	0 54	22 22	0 52	6 34	2 29	10 47	0 27	15 57	1 3	11 31	16 29	23 42	23 43	9 50		n.a.
S 23	23 42	18 41	4 8	19 13	2 5	12 51	3 3	24 37	0 54	22 23	0 52	6 34	2 29	10 48	0 27	15 56	1 3	11 31	16 29	23 42	23 43	9 52		n.a.
S 24	23 43	14 35	4 47	19 31	1 56	13 12	3 1	24 37	0 55	22 24	0 53	6 34	2 28	10 49	0 27	15 56	1 3	11 31	16 28	23 42	23 42	9 55		n.a.
M25	23 42	9 41	5 11	19 50	1 46	13 33	3 0	24 38	0 55	22 26	0 53	6 34	2 28	10 50	0 27	15 55	1 3	11 30	16 28	23 42	23 42	9 58		n.a.
T 26	23 42	4 13	5 17	20 9	1 37	13 54	2 59	24 38	0 55	22 27	0 53	6 34	2 28	10 51	0 27	15 55	1 3	11 30	16 28	23 42	23 42	10 0		n.a.
W27	23 41	1 s33	5 5	20 28	1 27	14 14	2 57	24 38	0 56	22 28	0 53	6 35	2 27	10 51	0 27	15 54	1 3	11 30	16 27	23 42	23 42	10 3		n.a.
T 28	23 39	7 20	4 33	20 47	1 18	14 35	2 56	24 37	0 56	22 30	0 53	6 35	2 27	10 52	0 27	15 53	1 3	11 29	16 27	23 42	23 42	10 6		n.a.
F 29	23 37	12 48	3 44	21 6	1 9	14 55	2 54	24 36	0 57	22 31	0 53	6 35	2 27	10 53	0 27	15 53	1 3	11 29	16 27	23 42	23 42	10 8		n.a.
S 30	23 35	17 34	2 40	21 25	0 59	15 15	2 52	24 35	0 57	22 33	0 54	6 36	2 26	10 54	0 27	15 52	1 3	11 29	16 26	23 42	23 42	10 11		n.a.
S 31	23 s32	21 s17	1n26	21 s43	0n50	15 s34	2n50	24 s34	0 s57	22n34	0n54	6n36	2 s26	10 s54	0n27	15 s52	1 s 3	11 s28	16 s26	23n42	23n42	10n14		n.a.

Julian Day Number = 1677196.5, Delta T = 03h17m24s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'16, Lahiri = - 5°37'15 Julian Calendar 1 Dec. 122 BCE == Greg. Calendar 28 Nov. 122 BCE

The year -121 astronomical counting style corresponds to year 122 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

JANUARY 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 26 55	7♑45'06	28♐11	13♐42	22♏30	5♑47	23°R 6	22♈31	29♎17	20♒22	8♈58	29°R18	28♊58	7♉16	n.a.	M 1
T 2	6 30 51	8°46'04	12♑31	14°56	23°38	6°35	22♋59	22°32	29°19	20°24	8°59	29♊18	28°55	7°23	n.a.	T 2
W 3	6 34 48	9°47'02	26°34	16°11	24°46	7°22	22°51	22°33	29°21	20°26	8°59	29°17	28°52	7°30	n.a.	W 3
T 4	6 38 44	10°47'58	10♒16	17°27	25°54	8° 9	22°44	22°33	29°22	20°28	8°59	29°16	28°49	7°36	n.a.	T 4
F 5	6 42 41	11°48'52	23°36	18°45	27° 2	8°56	22°36	22°34	29°24	20°30	8°59	29°14	28°45	7°43	n.a.	F 5
S 6	6 46 37	12°49'45	6♓34	20° 4	28°11	9°44	22°28	22°35	29°26	20°32	8°59	29°12	28°42	7°50	n.a.	S 6
S 7	6 50 34	13°50'37	19°10	21°25	29°19	10°31	22°21	22°36	29°27	20°33	9° 0	29°11	28°39	7°56	n.a.	S 7
M 8	6 54 31	14°51'26	1♈29	22°47	0♐28	11°18	22°13	22°38	29°29	20°35	9° 0	29°10	28°36	8° 3	n.a.	M 8
T 9	6 58 27	15°52'14	13°33	24°10	1°37	12° 6	22° 5	22°39	29°31	20°37	9° 0	29°D 9	28°33	8°10	n.a.	T 9
W10	7 2 24	16°53'01	25°28	25°33	2°46	12°53	21°57	22°40	29°32	20°39	9° 0	29° 9	28°30	8°16	n.a.	W10
T 11	7 6 20	17°53'45	7♉19	26°58	3°55	13°40	21°49	22°42	29°34	20°41	9° 1	29°10	28°26	8°23	n.a.	T 11
F 12	7 10 17	18°54'29	19°10	28°25	5° 5	14°27	21°41	22°44	29°35	20°43	9° 1	29°12	28°23	8°30	n.a.	F 12
S 13	7 14 13	19°55'10	1♊ 6	29°52	6°14	15°15	21°33	22°45	29°36	20°45	9° 1	29°13	28°20	8°37	n.a.	S 13
S 14	7 18 10	20°55'50	13°11	1♑20	7°23	16° 2	21°25	22°47	29°38	20°47	9° 2	29°15	28°17	8°43	n.a.	S 14
M15	7 22 6	21°56'28	25°27	2°48	8°33	16°49	21°17	22°49	29°39	20°49	9° 2	29°R16	28°14	8°50	n.a.	M15
T 16	7 26 3	22°57'04	7♋59	4°18	9°43	17°37	21° 9	22°52	29°40	20°51	9° 3	29°15	28°10	8°57	n.a.	T 16
W17	7 30 0	23°57'38	20°47	5°49	10°53	18°24	21° 1	22°54	29°41	20°53	9° 3	29°14	28° 7	9° 3	n.a.	W17
T 18	7 33 56	24°58'11	3♌51	7°21	12° 2	19°11	20°54	22°56	29°42	20°55	9° 4	29°11	28° 4	9°10	n.a.	T 18
F 19	7 37 53	25°58'43	17°10	8°54	13°12	19°59	20°46	22°59	29°43	20°58	9° 4	29° 7	28° 1	9°17	n.a.	F 19
S 20	7 41 49	26°59'12	0♍44	10°27	14°23	20°46	20°38	23° 1	29°44	21° 0	9° 5	29° 3	27°58	9°23	n.a.	S 20
S 21	7 45 46	27°59'40	14°30	12° 2	15°33	21°33	20°30	23° 4	29°45	21° 2	9° 5	28°59	27°55	9°30	n.a.	S 21
M22	7 49 42	29° 0'07	28°25	13°37	16°43	22°21	20°22	23° 6	29°46	21° 4	9° 6	28°55	27°51	9°37	n.a.	M22
T 23	7 53 39	0♒ 0'32	12♎27	15°13	17°53	23° 8	20°14	23° 9	29°47	21° 6	9° 6	28°52	27°48	9°43	n.a.	T 23
W24	7 57 35	1° 0'56	26°33	16°51	19° 4	23°55	20° 7	23°12	29°47	21° 8	9° 7	28°D51	27°45	9°50	n.a.	W24
T 25	8 1 32	2° 1'18	10♏43	18°29	20°14	24°43	19°59	23°15	29°48	21°10	9° 7	28°51	27°42	9°57	n.a.	T 25
F 26	8 5 29	3° 1'38	24°53	20° 8	21°25	25°30	19°51	23°19	29°49	21°13	9° 8	28°52	27°39	10° 4	n.a.	F 26
S 27	8 9 25	4° 1'58	9♐ 4	21°48	22°36	26°17	19°44	23°22	29°49	21°15	9° 9	28°54	27°35	10°10	n.a.	S 27
S 28	8 13 22	5° 2'15	23°11	23°30	23°46	27° 5	19°36	23°25	29°50	21°17	9° 9	28°R55	27°32	10°17	n.a.	S 28
M29	8 17 18	6° 2'31	7♑13	25°12	24°57	27°52	19°29	23°29	29°50	21°19	9°10	28°55	27°29	10°24	n.a.	M29
T 30	8 21 15	7° 2'46	21° 7	26°55	26° 8	28°39	19°22	23°32	29°51	21°21	9°11	28°53	27°26	10°30	n.a.	T 30
W31	8 25 11	8♒ 2'58	4♒49	28♑39	27♐19	29♑26	19♋15	23♈36	29♎51	21♒24	9♈12	28♊49	27♊23	10♉37	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23s29	23s36	0n 6	22s 1	0n41	15s54	2n48	24s32	0s58	22n36	0n54	6n36	2s26	10s55	0n27	15s51	1s 3	11s28	16s26	23n42	23n42	10n16			n.a.
T 2	23 25	24 19	1s13	22 19	0 32	16 13	2 46	24 30	0 58	22 37	0 54	6 37	2 26	10 56	0 27	15 51	1 3	11 27	16 25	23 42	23 42	10 19			n.a.
W 3	23 21	23 27	2 25	22 36	0 23	16 32	2 43	24 28	0 58	22 38	0 54	6 37	2 25	10 56	0 27	15 50	1 3	11 27	16 25	23 42	23 42	10 22			n.a.
T 4	23 16	21 12	3 28	22 52	0 15	16 50	2 41	24 26	0 59	22 40	0 55	6 38	2 25	10 57	0 27	15 49	1 3	11 27	16 25	23 42	23 42	10 25			n.a.
F 5	23 11	17 51	4 17	23 7	0 6	17 9	2 39	24 23	0 59	22 41	0 55	6 39	2 25	10 58	0 27	15 49	1 3	11 26	16 24	23 42	23 42	10 27			n.a.
S 6	23 5	13 43	4 52	23 22	0s 2	17 26	2 36	24 20	0 59	22 43	0 55	6 39	2 24	10 58	0 27	15 48	1 3	11 26	16 24	23 42	23 42	10 30			n.a.
S 7	22 59	9 6	5 11	23 36	0 10	17 44	2 34	24 17	1 0	22 44	0 55	6 40	2 24	10 59	0 27	15 48	1 3	11 25	16 23	23 42	23 42	10 33			n.a.
M 8	22 52	4 14	5 16	23 48	0 18	18 1	2 31	24 13	1 0	22 46	0 55	6 41	2 24	10 59	0 27	15 47	1 3	11 25	16 23	23 42	23 42	10 35			n.a.
T 9	22 45	0n42	5 6	24 0	0 25	18 18	2 28	24 9	1 0	22 47	0 55	6 42	2 23	11 0	0 27	15 46	1 3	11 25	16 23	23 42	23 42	10 38			n.a.
W10	22 38	5 34	4 44	24 11	0 33	18 34	2 26	24 5	1 0	22 49	0 55	6 42	2 23	11 0	0 27	15 46	1 3	11 24	16 22	23 42	23 42	10 41			n.a.
T 11	22 30	10 11	4 9	24 20	0 40	18 50	2 23	24 0	1 1	22 50	0 56	6 43	2 23	11 1	0 27	15 45	1 3	11 24	16 22	23 42	23 42	10 43			n.a.
F 12	22 22	14 27	3 24	24 29	0 47	19 6	2 20	23 55	1 1	22 51	0 56	6 44	2 22	11 1	0 28	15 44	1 3	11 23	16 22	23 42	23 42	10 46			n.a.
S 13	22 13	18 11	2 29	24 36	0 54	19 21	2 17	23 50	1 1	22 53	0 56	6 45	2 22	11 2	0 28	15 44	1 3	11 23	16 21	23 42	23 42	10 49			n.a.
S 14	22 4	21 11	1 28	24 42	1 0	19 36	2 14	23 45	1 1	22 54	0 56	6 46	2 22	11 2	0 28	15 43	1 3	11 22	16 21	23 42	23 42	10 51			n.a.
M15	21 54	23 17	0 21	24 47	1 6	19 50	2 11	23 39	1 2	22 56	0 56	6 47	2 21	11 3	0 28	15 42	1 3	11 22	16 21	23 42	23 42	10 54			n.a.
T 16	21 44	24 16	0n48	24 51	1 12	20 3	2 7	23 34	1 2	22 57	0 56	6 48	2 21	11 3	0 28	15 42	1 3	11 21	16 20	23 42	23 42	10 57			n.a.
W17	21 34	23 59	1 56	24 53	1 18	20 17	2 4	23 27	1 2	22 58	0 56	6 49	2 21	11 3	0 28	15 41	1 3	11 21	16 20	23 42	23 42	10 59			n.a.
T 18	21 23	22 24	2 59	24 53	1 23	20 29	2 1	23 21	1 2	23 0	0 56	6 51	2 21	11 4	0 28	15 40	1 3	11 20	16 20	23 42	23 42	11 2			n.a.
F 19	21 11	19 34	3 53	24 53	1 28	20 42	1 58	23 14	1 3	23 1	0 57	6 52	2 20	11 4	0 28	15 40	1 3	11 20	16 19	23 42	23 42	11 5			n.a.
S 20	21 0	15 37	4 36	24 51	1 33	20 53	1 54	23 7	1 3	23 2	0 57	6 53	2 20	11 4	0 28	15 39	1 3	11 19	16 19	23 42	23 42	11 7			n.a.
S 21	20 48	10 49	5 3	24 47	1 38	21 5	1 51	23 0	1 3	23 4	0 57	6 54	2 20	11 5	0 28	15 38	1 3	11 19	16 19	23 42	23 42	11 10			n.a.
M22	20 35	5 25	5 13	24 42	1 42	21 15	1 48	22 52	1 3	23 5	0 57	6 56	2 19	11 5	0 28	15 38	1 3	11 18	16 18	23 42	23 42	11 13			n.a.
T 23	20 23	0s19	5 4	24 35	1 46	21 25	1 44	22 45	1 4	23 6	0 57	6 57	2 19	11 5	0 28	15 37	1 3	11 18	16 18	23 42	23 41	11 15			n.a.
W24	20 9	6 3	4 37	24 27	1 49	21 35	1 41	22 37	1 4	23 7	0 57	6 58	2 19	11 6	0 28	15 36	1 3	11 17	16 18	23 42	23 41	11 18			n.a.
T 25	19 56	11 31	3 53	24 17	1 53	21 44	1 37	22 28	1 4	23 9	0 57	7 0	2 18	11 6	0 28	15 35	1 3	11 17	16 17	23 42	23 41	11 21			n.a.
F 26	19 42	16 22	2 55	24 5	1 55	21 52	1 34	22 20	1 4	23 10	0 57	7 1	2 18	11 6	0 28	15 35	1 3	11 16	16 17	23 42	23 41	11 23			n.a.
S 27	19 28	20 18	1 46	23 51	1 58	22 0	1 30	22 11	1 4	23 11	0 57	7 3	2 18	11 6	0 28	15 34	1 3	11 16	16 17	23 42	23 41	11 26			n.a.
S 28	19 13	23 1	0 31	23 36	2 0	22 7	1 27	22 2	1 4	23 12	0 57	7 4	2 18	11 6	0 28	15 33	1 3	11 15	16 16	23 42	23 41	11 29			n.a.
M29	18 58	24 16	0s45	23 20	2 2	22 14	1 23	21 53	1 5	23 13	0 57	7 6	2 17	11 6	0 28	15 33	1 3	11 15	16 16	23 42	23 41	11 31			n.a.
T 30	18 43	23 58	1 58	23 1	2 3	22 20	1 19	21 43	1 5	23 14	0 57	7 7	2 17	11 7	0 28	15 32	1 3	11 14	16 16	23 42	23 41	11 34			n.a.
W31	18s28	22s14	3s 3	22s41	2s 4	22s25	1n16	21s33	1s 5	23n16	0n57	7n 9	2s17	11s 7	0n28	15s31	1s 3	11s13	16s15	23n42	23n41	11n37			n.a.

Julian Day Number = 1677227.5, Delta T = 03h17m23s
Ecliptic obliquity = 23°42'35, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'12, Lahiri = - 5°37'11 Julian Calendar 1 Jan. 121 BCE == Greg. Calendar 29 Dec. 122 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

FEBRUARY 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 8	9♒ 3'08	18♒17	0♒25	28♐30	0♒14	19°R 7	23♈40	29♎51	21♒26	9♈12	28°R43	27♊20	10♉44	n.a.	T 1
F 2	8 33 4	10° 3'17	1♓28	2°11	29°41	1° 1	19♋ 0	23°43	29°52	21°28	9°13	28♊36	27°16	10°50	n.a.	F 2
S 3	8 37 1	11° 3'23	14°22	3°58	0♏52	1°48	18°53	23°47	29°52	21°30	9°14	28°28	27°13	10°57	n.a.	S 3
S 4	8 40 58	12° 3'27	26°57	5°47	2° 3	2°35	18°47	23°51	29°52	21°32	9°15	28°21	27°10	11° 4	n.a.	S 4
M 5	8 44 54	13° 3'29	9♈16	7°36	3°14	3°23	18°40	23°56	29°52	21°35	9°15	28°14	27° 7	11°10	n.a.	M 5
T 6	8 48 51	14° 3'29	21°21	9°27	4°26	4°10	18°33	24° 0	29°R52	21°37	9°16	28°10	27° 4	11°17	n.a.	T 6
W 7	8 52 47	15° 3'26	3♉17	11°19	5°37	4°57	18°27	24° 4	29°52	21°39	9°17	28° 7	27° 1	11°24	n.a.	W 7
T 8	8 56 44	16° 3'21	15° 8	13°12	6°48	5°44	18°21	24° 9	29°52	21°42	9°18	28°D 6	26°57	11°30	n.a.	T 8
F 9	9 0 40	17° 3'14	26°58	15° 5	8° 0	6°31	18°14	24°13	29°52	21°44	9°19	28° 6	26°54	11°37	n.a.	F 9
S 10	9 4 37	18° 3'05	8♊54	17° 0	9°11	7°18	18° 8	24°18	29°52	21°46	9°20	28° 8	26°51	11°44	n.a.	S 10
S 11	9 8 33	19° 2'53	21° 0	18°56	10°22	8° 6	18° 2	24°22	29°52	21°48	9°21	28° 9	26°48	11°51	n.a.	S 11
M12	9 12 30	20° 2'39	3♋21	20°53	11°34	8°53	17°57	24°27	29°51	21°51	9°22	28°R 9	26°45	11°57	n.a.	M12
T 13	9 16 26	21° 2'23	16° 1	22°50	12°46	9°40	17°51	24°32	29°51	21°53	9°23	28° 7	26°41	12° 4	n.a.	T 13
W14	9 20 23	22° 2'04	29° 2	24°49	13°57	10°27	17°45	24°37	29°51	21°55	9°24	28° 3	26°38	12°11	n.a.	W14
T 15	9 24 20	23° 1'44	12♌25	26°48	15° 9	11°14	17°40	24°42	29°50	21°57	9°25	27°57	26°35	12°17	n.a.	T 15
F 16	9 28 16	24° 1'21	26° 9	28°47	16°20	12° 1	17°35	24°47	29°50	22° 0	9°26	27°49	26°32	12°24	n.a.	F 16
S 17	9 32 13	25° 0'55	10♍10	0♓47	17°32	12°48	17°30	24°52	29°49	22° 2	9°27	27°39	26°29	12°31	n.a.	S 17
S 18	9 36 9	26° 0'28	24°25	2°47	18°44	13°35	17°25	24°57	29°48	22° 4	9°28	27°30	26°26	12°37	n.a.	S 18
M19	9 40 6	26°59'59	8♎47	4°46	19°56	14°22	17°20	25° 3	29°48	22° 6	9°29	27°21	26°22	12°44	n.a.	M19
T 20	9 44 2	27°59'28	23°10	6°46	21° 7	15° 9	17°15	25° 8	29°47	22° 9	9°30	27°15	26°19	12°51	n.a.	T 20
W21	9 47 59	28°58'55	7♏30	8°45	22°19	15°56	17°11	25°13	29°46	22°11	9°31	27°10	26°16	12°57	n.a.	W21
T 22	9 51 55	29°58'20	21°44	10°42	23°31	16°42	17° 7	25°19	29°46	22°13	9°32	27° 8	26°13	13° 4	n.a.	T 22
F 23	9 55 52	0♓57'43	5♐50	12°39	24°43	17°29	17° 3	25°25	29°45	22°16	9°33	27°D 8	26°10	13°11	n.a.	F 23
S 24	9 59 49	1°57'05	19°46	14°34	25°55	18°16	16°59	25°30	29°44	22°18	9°34	27°R 9	26° 7	13°17	n.a.	S 24
S 25	10 3 45	2°56'25	3♏33	16°26	27° 7	19° 3	16°55	25°36	29°43	22°20	9°35	27° 9	26° 3	13°24	n.a.	S 25
M26	10 7 42	3°55'43	17°10	18°16	28°19	19°50	16°51	25°42	29°42	22°22	9°36	27° 7	26° 0	13°31	n.a.	M26
T 27	10 11 38	4°54'59	0♒38	20° 3	29°31	20°36	16°48	25°48	29°41	22°25	9°37	27° 3	25°57	13°37	n.a.	T 27
W28	10 15 35	5°54'13	13°56	21°47	0♒43	21°23	16°45	25°54	29°40	22°27	9°39	26°56	25°54	13°44	n.a.	W28
T 29	10 19 31	6♓53'25	27♒ 2	23♓27	1♒55	22♒10	16♋42	26♈ 0	29♎39	22♒29	9♈40	26♊46	25♊51	13♉51	n.a.	T 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s12	19s15	3s56	22s19	2s 4	22s30	1n12	21s23	1s 5	23n17	0n58	7n11	2s16	11s 7	0n28	15s30	1s 3	11s13	16s15	23n42	23n41	11n39		n.a.
F 2	17 56	15 21	4 35	21 55	2 4	22 34	1 8	21 13	1 5	23 18	0 58	7 12	2 16	11 7	0 28	15 30	1 3	11 12	16 15	23 42	23 41	11 42		n.a.
S 3	17 39	10 49	5 0	21 29	2 4	22 38	1 5	21 3	1 5	23 19	0 58	7 14	2 16	11 7	0 28	15 29	1 3	11 12	16 14	23 42	23 41	11 45		n.a.
S 4	17 22	5 56	5 9	21 1	2 3	22 41	1 1	20 52	1 5	23 20	0 58	7 16	2 16	11 7	0 28	15 28	1 3	11 11	16 14	23 42	23 41	11 47		n.a.
M 5	17 5	0 55	5 3	20 31	2 1	22 43	0 57	20 41	1 5	23 21	0 58	7 17	2 15	11 7	0 28	15 28	1 3	11 10	16 14	23 42	23 41	11 50		n.a.
T 6	16 48	4n 2	4 44	20 0	1 59	22 44	0 54	20 30	1 6	23 22	0 58	7 19	2 15	11 7	0 28	15 27	1 3	11 10	16 14	23 42	23 41	11 53		n.a.
W 7	16 30	8 47	4 13	19 27	1 57	22 45	0 50	20 18	1 6	23 23	0 58	7 21	2 15	11 7	0 28	15 26	1 3	11 9	16 13	23 42	23 41	11 55		n.a.
T 8	16 12	13 12	3 31	18 52	1 54	22 45	0 47	20 7	1 6	23 23	0 58	7 23	2 15	11 7	0 28	15 25	1 3	11 9	16 13	23 42	23 40	11 58		n.a.
F 9	15 54	17 6	2 40	18 15	1 50	22 45	0 43	19 55	1 6	23 24	0 58	7 25	2 14	11 7	0 28	15 25	1 3	11 8	16 13	23 42	23 40	12 1		n.a.
S 10	15 36	20 21	1 42	17 36	1 46	22 44	0 39	19 43	1 6	23 25	0 58	7 27	2 14	11 7	0 28	15 24	1 3	11 7	16 12	23 42	23 40	12 3		n.a.
S 11	15 17	22 46	0 38	16 55	1 41	22 42	0 36	19 31	1 6	23 26	0 58	7 29	2 14	11 7	0 28	15 23	1 3	11 7	16 12	23 42	23 40	12 6		n.a.
M12	14 58	24 8	0n28	16 13	1 36	22 40	0 32	19 18	1 6	23 27	0 58	7 31	2 14	11 7	0 28	15 22	1 3	11 6	16 12	23 42	23 40	12 8		n.a.
T 13	14 39	24 18	1 35	15 29	1 30	22 37	0 29	19 6	1 6	23 28	0 58	7 33	2 13	11 6	0 28	15 22	1 3	11 6	16 12	23 42	23 40	12 11		n.a.
W14	14 19	23 9	2 38	14 43	1 24	22 33	0 25	18 53	1 6	23 28	0 58	7 35	2 13	11 6	0 28	15 21	1 3	11 5	16 11	23 42	23 40	12 14		n.a.
T 15	14 0	20 41	3 34	13 55	1 17	22 29	0 21	18 40	1 6	23 29	0 58	7 37	2 13	11 6	0 28	15 20	1 3	11 4	16 11	23 42	23 40	12 16		n.a.
F 16	13 40	17 0	4 20	13 7	1 9	22 24	0 18	18 27	1 6	23 30	0 58	7 39	2 13	11 6	0 28	15 19	1 3	11 4	16 11	23 41	23 40	12 19		n.a.
S 17	13 20	12 19	4 51	12 16	1 1	22 18	0 14	18 13	1 6	23 30	0 58	7 41	2 12	11 6	0 28	15 19	1 3	11 3	16 11	23 41	23 40	12 22		n.a.
S 18	12 59	6 53	5 4	11 25	0 52	22 12	0 11	18 0	1 6	23 31	0 58	7 43	2 12	11 6	0 28	15 18	1 3	11 2	16 10	23 41	23 40	12 24		n.a.
M19	12 39	1 3	4 58	10 32	0 43	22 5	0 8	17 46	1 6	23 32	0 58	7 45	2 12	11 5	0 28	15 17	1 3	11 2	16 10	23 41	23 40	12 27		n.a.
T 20	12 18	4s52	4 34	9 38	0 33	21 58	0 4	17 32	1 6	23 32	0 58	7 48	2 12	11 5	0 28	15 17	1 3	11 1	16 10	23 41	23 39	12 30		n.a.
W21	11 58	10 30	3 53	8 44	0 22	21 49	0 1	17 18	1 6	23 33	0 58	7 50	2 11	11 5	0 28	15 16	1 3	11 1	16 10	23 41	23 39	12 32		n.a.
T 22	11 37	15 33	2 57	7 49	0 12	21 41	0s 2	17 3	1 6	23 33	0 58	7 52	2 11	11 4	0 28	15 15	1 3	11 0	16 9	23 41	23 39	12 35		n.a.
F 23	11 15	19 42	1 51	6 53	0 0	21 31	0 6	16 49	1 6	23 34	0 58	7 54	2 11	11 4	0 28	15 14	1 3	10 59	16 9	23 41	23 39	12 37		n.a.
S 24	10 54	22 39	0 39	5 58	0n11	21 21	0 9	16 34	1 6	23 34	0 58	7 57	2 11	11 4	0 28	15 14	1 3	10 59	16 9	23 41	23 39	12 40		n.a.
S 25	10 32	24 14	0s34	5 3	0 24	21 10	0 12	16 20	1 6	23 35	0 58	7 59	2 10	11 3	0 28	15 13	1 3	10 58	16 9	23 41	23 39	12 43		n.a.
M26	10 11	24 19	1 44	4 8	0 36	20 59	0 15	16 5	1 6	23 35	0 58	8 1	2 10	11 3	0 28	15 12	1 3	10 57	16 8	23 41	23 39	12 45		n.a.
T 27	9 49	22 58	2 48	3 15	0 48	20 47	0 19	15 50	1 6	23 36	0 58	8 4	2 10	11 3	0 28	15 11	1 3	10 57	16 8	23 41	23 39	12 48		n.a.
W28	9 27	20 22	3 41	2 22	1 1	20 35	0 22	15 34	1 6	23 36	0 58	8 6	2 10	11 2	0 28	15 11	1 3	10 56	16 8	23 40	23 39	12 50		n.a.
T 29	9s 5	16s44	4s22	1s31	1n13	20s21	0s25	15s19	1s 6	23n36	0n58	8n 8	2s10	11s 2	0n28	15s10	1s 3	10s56	16s 8	23n40	23n39	12n53		n.a.

Julian Day Number = 1677258.5, Delta T = 03h17m22s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'07, Lahiri = - 5°37'07 Julian Calendar 1 Feb. 121 BCE == Greg. Calendar 29 Jan. 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

MARCH 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 23 28	7♓52'34	9♓55	25♓ 3	3♒ 7	22♒56	16°R39	26♈ 6	29°R37	22♒31	9♈41	26°R34	25♊47	13♉58	n.a.	F 1
S 2	10 27 24	8°51'42	22°36	26°34	4°19	23°43	16♋36	26°12	29♎36	22°33	9°42	26♊22	25°44	14° 4	n.a.	S 2
S 3	10 31 21	9°50'47	5♈ 2	28° 0	5°31	24°30	16°34	26°18	29°35	22°36	9°43	26° 9	25°41	14°11	n.a.	S 3
M 4	10 35 18	10°49'50	17°16	29°22	6°44	25°16	16°32	26°24	29°34	22°38	9°45	25°58	25°38	14°18	n.a.	M 4
T 5	10 39 14	11°48'51	29°19	0♈37	7°56	26° 3	16°29	26°31	29°32	22°40	9°46	25°48	25°35	14°24	n.a.	T 5
W 6	10 43 11	12°47'49	11♉13	1°47	9° 8	26°49	16°28	26°37	29°31	22°42	9°47	25°42	25°32	14°31	n.a.	W 6
T 7	10 47 7	13°46'46	23° 2	2°51	10°20	27°36	16°26	26°43	29°29	22°44	9°48	25°38	25°28	14°38	n.a.	T 7
F 8	10 51 4	14°45'40	4♊51	3°49	11°32	28°22	16°24	26°50	29°28	22°46	9°50	25°36	25°25	14°44	n.a.	F 8
S 9	10 55 0	15°44'31	16°45	4°41	12°45	29° 8	16°23	26°56	29°26	22°49	9°51	25°D36	25°22	14°51	n.a.	S 9
S 10	10 58 57	16°43'20	28°50	5°26	13°57	29°55	16°22	27° 3	29°25	22°51	9°52	25°R36	25°19	14°58	n.a.	S 10
M11	11 2 53	17°42'07	11♋11	6° 5	15° 9	0♓41	16°21	27°10	29°23	22°53	9°53	25°35	25°16	15° 4	n.a.	M11
T 12	11 6 50	18°40'51	23°53	6°37	16°21	1°27	16°20	27°16	29°21	22°55	9°55	25°32	25°13	15°11	n.a.	T 12
W13	11 10 46	19°39'34	6♌59	7° 3	17°34	2°14	16°19	27°23	29°20	22°57	9°56	25°28	25° 9	15°18	n.a.	W13
T 14	11 14 43	20°38'13	20°32	7°22	18°46	3° 0	16°19	27°30	29°18	22°59	9°57	25°20	25° 6	15°24	n.a.	T 14
F 15	11 18 40	21°36'51	4♍30	7°35	19°58	3°46	16°19	27°37	29°16	23° 1	9°59	25°10	25° 3	15°31	n.a.	F 15
S 16	11 22 36	22°35'26	18°52	7°R41	21°11	4°32	16°D19	27°44	29°14	23° 3	10° 0	24°59	25° 0	15°38	n.a.	S 16
S 17	11 26 33	23°34'00	3♎31	7°41	22°23	5°18	16°19	27°51	29°13	23° 5	10° 1	24°47	24°57	15°44	n.a.	S 17
M18	11 30 29	24°32'31	18°19	7°35	23°36	6° 4	16°19	27°58	29°11	23° 7	10° 2	24°36	24°53	15°51	n.a.	M18
T 19	11 34 26	25°31'00	3♏ 8	7°23	24°48	6°50	16°20	28° 5	29° 9	23° 9	10° 4	24°28	24°50	15°58	n.a.	T 19
W20	11 38 22	26°29'28	17°50	7° 6	26° 0	7°36	16°20	28°12	29° 7	23°11	10° 5	24°22	24°47	16° 4	n.a.	W20
T 21	11 42 19	27°27'54	2♐19	6°43	27°13	8°22	16°21	28°19	29° 5	23°13	10° 6	24°19	24°44	16°11	n.a.	T 21
F 22	11 46 15	28°26'19	16°33	6°17	28°25	9° 8	16°22	28°26	29° 3	23°15	10° 8	24°18	24°41	16°18	n.a.	F 22
S 23	11 50 12	29°24'41	0♑29	5°46	29°38	9°54	16°24	28°33	29° 1	23°17	10° 9	24°18	24°38	16°24	n.a.	S 23
S 24	11 54 9	0♈23'03	14° 8	5°12	0♓50	10°39	16°25	28°41	28°59	23°19	10°11	24°18	24°34	16°31	n.a.	S 24
M25	11 58 5	1°21'22	27°32	4°35	2° 3	11°25	16°27	28°48	28°57	23°21	10°12	24°16	24°31	16°38	n.a.	M25
T 26	12 2 2	2°19'40	10♒41	3°57	3°15	12°11	16°29	28°55	28°55	23°23	10°13	24°11	24°28	16°44	n.a.	T 26
W27	12 5 58	3°17'56	23°39	3°17	4°28	12°57	16°31	29° 2	28°52	23°25	10°15	24° 4	24°25	16°51	n.a.	W27
T 28	12 9 55	4°16'11	6♓24	2°36	5°41	13°42	16°33	29°10	28°50	23°26	10°16	23°54	24°22	16°58	n.a.	T 28
F 29	12 13 51	5°14'23	18°59	1°56	6°53	14°28	16°35	29°17	28°48	23°28	10°17	23°42	24°18	17° 4	n.a.	F 29
S 30	12 17 48	6°12'34	1♈24	1°17	8° 6	15°13	16°38	29°25	28°46	23°30	10°19	23°28	24°15	17°11	n.a.	S 30
S 31	12 21 44	7♈10'43	13♈38	0♈39	9♓18	15♓59	16♋40	29♈32	28♎44	23♒32	10♈20	23♊15	24♊12	17♉18	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	8s43	12s23	4s49	0s41	1n26	20s 8	0s28	15s 4	1s 6	23n37	0n57	8n11	2s 9	11s 1	0n28	15s 9	1s 3	10s55	16s 8	23n40	23n39	12n56		n.a.	F 1
S 2	8 20	7 34	5 1	0n 7	1 38	19 53	0 31	14 48	1 6	23 37	0 57	8 13	2 9	11 1	0 28	15 9	1 3	10 54	16 7	23 40	23 38	12 58		n.a.	S 2
S 3	7 58	2 31	4 58	0 52	1 50	19 39	0 33	14 32	1 6	23 37	0 57	8 16	2 9	11 0	0 28	15 8	1 3	10 54	16 7	23 39	23 38	13 1		n.a.	S 3
M 4	7 35	2n32	4 41	1 35	2 1	19 23	0 36	14 16	1 6	23 37	0 57	8 18	2 9	11 0	0 28	15 7	1 3	10 53	16 7	23 39	23 38	13 4		n.a.	M 4
T 5	7 13	7 26	4 12	2 16	2 12	19 7	0 39	14 0	1 6	23 38	0 57	8 21	2 8	11 0	0 28	15 6	1 3	10 52	16 7	23 39	23 38	13 6		n.a.	T 5
W 6	6 50	12 0	3 32	2 54	2 23	18 51	0 42	13 44	1 5	23 38	0 57	8 23	2 8	10 59	0 28	15 6	1 3	10 52	16 7	23 38	23 38	13 9		n.a.	W 6
T 7	6 27	16 6	2 43	3 28	2 32	18 34	0 45	13 28	1 5	23 38	0 57	8 26	2 8	10 58	0 28	15 5	1 3	10 51	16 7	23 38	23 38	13 11		n.a.	T 7
F 8	6 4	19 35	1 48	4 0	2 41	18 16	0 47	13 12	1 5	23 38	0 57	8 28	2 8	10 58	0 28	15 4	1 3	10 50	16 6	23 38	23 38	13 14		n.a.	F 8
S 9	5 41	22 16	0 47	4 28	2 50	17 58	0 50	12 55	1 5	23 38	0 57	8 31	2 8	10 57	0 28	15 4	1 3	10 50	16 6	23 38	23 38	13 17		n.a.	S 9
S 10	5 18	23 59	0n17	4 53	2 57	17 40	0 52	12 38	1 5	23 38	0 57	8 33	2 8	10 57	0 28	15 3	1 3	10 49	16 6	23 38	23 38	13 19		n.a.	S 10
M11	4 55	24 35	1 22	5 15	3 3	17 21	0 55	12 22	1 5	23 38	0 57	8 36	2 7	10 56	0 28	15 2	1 3	10 49	16 6	23 38	23 37	13 22		n.a.	M11
T 12	4 32	23 56	2 24	5 32	3 9	17 1	0 57	12 5	1 5	23 38	0 57	8 39	2 7	10 56	0 28	15 2	1 3	10 48	16 6	23 38	23 37	13 24		n.a.	T 12
W13	4 8	21 58	3 20	5 46	3 13	16 41	0 59	11 48	1 5	23 38	0 57	8 41	2 7	10 55	0 28	15 1	1 3	10 47	16 6	23 38	23 37	13 27		n.a.	W13
T 14	3 45	18 43	4 7	5 57	3 16	16 21	1 2	11 31	1 4	23 38	0 57	8 44	2 7	10 54	0 28	15 0	1 3	10 47	16 6	23 38	23 37	13 29		n.a.	T 14
F 15	3 22	14 19	4 41	6 3	3 18	16 0	1 4	11 14	1 4	23 38	0 57	8 46	2 7	10 54	0 28	15 0	1 3	10 46	16 5	23 37	23 37	13 32		n.a.	F 15
S 16	2 58	9 1	4 59	6 6	3 18	15 38	1 6	10 57	1 4	23 38	0 57	8 49	2 6	10 53	0 28	14 59	1 3	10 45	16 5	23 37	23 37	13 35		n.a.	S 16
S 17	2 35	3 7	4 57	6 5	3 17	15 17	1 8	10 40	1 4	23 38	0 57	8 52	2 6	10 52	0 28	14 58	1 3	10 45	16 5	23 36	23 37	13 37		n.a.	S 17
M18	2 12	3s 1	4 35	6 1	3 15	14 54	1 10	10 22	1 4	23 38	0 57	8 54	2 6	10 52	0 28	14 58	1 3	10 44	16 5	23 36	23 37	13 40		n.a.	M18
T 19	1 48	9 1	3 55	5 52	3 11	14 32	1 12	10 5	1 3	23 38	0 56	8 57	2 6	10 51	0 28	14 57	1 3	10 44	16 5	23 36	23 36	13 42		n.a.	T 19
W20	1 25	14 28	3 0	5 41	3 5	14 9	1 14	9 47	1 3	23 38	0 56	9 0	2 6	10 50	0 28	14 56	1 3	10 43	16 5	23 35	23 36	13 45		n.a.	W20
T 21	1 1	19 1	1 53	5 25	2 58	13 45	1 15	9 30	1 3	23 38	0 56	9 2	2 6	10 50	0 29	14 56	1 4	10 42	16 5	23 35	23 36	13 48		n.a.	T 21
F 22	0 38	22 21	0 41	5 7	2 50	13 22	1 17	9 12	1 3	23 37	0 56	9 5	2 6	10 49	0 29	14 55	1 4	10 42	16 5	23 35	23 36	13 50		n.a.	F 22
S 23	0 14	24 15	0s33	4 46	2 41	12 57	1 19	8 55	1 3	23 37	0 56	9 8	2 5	10 48	0 29	14 55	1 4	10 41	16 5	23 35	23 36	13 53		n.a.	S 23
S 24	0n 9	24 39	1 43	4 22	2 30	12 33	1 20	8 37	1 2	23 37	0 56	9 11	2 5	10 47	0 29	14 54	1 4	10 41	16 5	23 35	23 36	13 55		n.a.	S 24
M25	0 33	23 36	2 46	3 56	2 17	12 8	1 22	8 19	1 2	23 37	0 56	9 13	2 5	10 47	0 29	14 53	1 4	10 40	16 4	23 35	23 36	13 58		n.a.	M25
T 26	0 56	21 15	3 39	3 29	2 4	11 43	1 23	8 1	1 2	23 36	0 56	9 16	2 5	10 46	0 29	14 53	1 4	10 39	16 4	23 35	23 36	14 0		n.a.	T 26
W27	1 20	17 52	4 20	3 0	1 50	11 18	1 25	7 43	1 2	23 36	0 56	9 19	2 5	10 45	0 29	14 52	1 4	10 39	16 4	23 35	23 35	14 3		n.a.	W27
T 28	1 43	13 41	4 47	2 30	1 35	10 52	1 26	7 25	1 1	23 36	0 56	9 22	2 5	10 44	0 29	14 52	1 4	10 38	16 4	23 34	23 35	14 5		n.a.	T 28
F 29	2 6	8 59	4 59	1 59	1 19	10 26	1 27	7 7	1 1	23 35	0 56	9 24	2 5	10 44	0 29	14 51	1 4	10 38	16 4	23 33	23 35	14 8		n.a.	F 29
S 30	2 30	3 59	4 58	1 28	1 3	9 59	1 28	6 49	1 1	23 35	0 56	9 27	2 4	10 43	0 29	14 50	1 4	10 37	16 4	23 33	23 35	14 11		n.a.	S 30
S 31	2n53	1n 7	4s42	0n58	0n46	9s33	1s29	6s31	1s 1	23n35	0n56	9n30	2s 4	10s42	0n29	14s50	1s 4	10s37	16s 4	23n32	23n35	14n13		n.a.	S 31

Julian Day Number = 1677287.5, Delta T = 03h17m21s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°44'03, Lahiri = - 5°37'03 Julian Calendar 1 March 121 BCE == Greg. Calendar 27 Feb. 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

APRIL 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 25 41	8♈ 8'50	25♈42	0°R 4	10♓31	16♓44	16♋43	29♈40	28°R41	23♒33	10♈21	23°R 3	24♊ 9	17♉24	n.a.	M 1
T 2	12 29 37	9° 6'56	7♉39	29♓31	11°43	17°30	16°46	29°47	28♎39	23°35	10°23	22♊53	24° 6	17°31	n.a.	T 2
W 3	12 33 34	10° 4'59	19°30	29° 2	12°56	18°15	16°49	29°55	28°37	23°37	10°24	22°46	24° 3	17°38	n.a.	W 3
T 4	12 37 31	11° 3'01	1♊17	28°36	14° 9	19° 0	16°53	0♉ 2	28°34	23°39	10°26	22°42	23°59	17°44	n.a.	T 4
F 5	12 41 27	12° 1'01	13° 6	28°14	15°21	19°45	16°56	0°10	28°32	23°40	10°27	22°40	23°56	17°51	n.a.	F 5
S 6	12 45 24	12°58'59	24°59	27°57	16°34	20°31	17° 0	0°18	28°30	23°42	10°28	22°D39	23°53	17°58	n.a.	S 6
S 7	12 49 20	13°56'55	7♋ 2	27°43	17°47	21°16	17° 4	0°25	28°27	23°44	10°30	22°40	23°50	18° 5	n.a.	S 7
M 8	12 53 17	14°54'49	19°21	27°35	18°59	22° 1	17° 8	0°33	28°25	23°45	10°31	22°R40	23°47	18°11	n.a.	M 8
T 9	12 57 13	15°52'41	2♌ 0	27°D31	20°12	22°46	17°12	0°41	28°22	23°47	10°32	22°38	23°44	18°18	n.a.	T 9
W10	13 1 10	16°50'31	15° 5	27°32	21°25	23°31	17°17	0°48	28°20	23°48	10°34	22°35	23°40	18°25	n.a.	W10
T 11	13 5 6	17°48'20	28°37	27°37	22°37	24°16	17°21	0°56	28°17	23°50	10°35	22°30	23°37	18°31	n.a.	T 11
F 12	13 9 3	18°46'06	12♍39	27°48	23°50	25° 1	17°26	1° 4	28°15	23°51	10°36	22°22	23°34	18°38	n.a.	F 12
S 13	13 13 0	19°43'51	27° 8	28° 2	25° 3	25°45	17°31	1°11	28°13	23°53	10°38	22°13	23°31	18°45	n.a.	S 13
S 14	13 16 56	20°41'34	11♎59	28°22	26°15	26°30	17°36	1°19	28°10	23°54	10°39	22° 4	23°28	18°51	n.a.	S 14
M15	13 20 53	21°39'15	27° 4	28°45	27°28	27°15	17°41	1°27	28° 8	23°56	10°41	21°55	23°24	18°58	n.a.	M15
T 16	13 24 49	22°36'56	12♏12	29°13	28°41	27°59	17°46	1°35	28° 5	23°57	10°42	21°48	23°21	19° 5	n.a.	T 16
W17	13 28 46	23°34'35	27°15	29°45	29°54	28°44	17°52	1°43	28° 3	23°58	10°43	21°44	23°18	19°11	n.a.	W17
T 18	13 32 42	24°32'12	12♐ 3	0♈21	1♈ 6	29°29	17°57	1°50	28° 0	24° 0	10°45	21°42	23°15	19°18	n.a.	T 18
F 19	13 36 39	25°29'49	26°31	1° 1	2°19	0♈13	18° 3	1°58	27°58	24° 1	10°46	21°D42	23°12	19°25	n.a.	F 19
S 20	13 40 35	26°27'25	10♑37	1°45	3°32	0°58	18° 9	2° 6	27°55	24° 2	10°47	21°42	23° 9	19°31	n.a.	S 20
S 21	13 44 32	27°24'59	24°20	2°32	4°45	1°42	18°15	2°14	27°53	24° 4	10°49	21°R43	23° 5	19°38	n.a.	S 21
M22	13 48 29	28°22'33	7♒41	3°23	5°58	2°26	18°21	2°22	27°50	24° 5	10°50	21°43	23° 2	19°45	n.a.	M22
T 23	13 52 25	29°20'05	20°44	4°17	7°10	3°11	18°28	2°30	27°48	24° 6	10°51	21°40	22°59	19°51	n.a.	T 23
W24	13 56 22	0♉17'37	3♓29	5°15	8°23	3°55	18°34	2°37	27°45	24° 7	10°53	21°36	22°56	19°58	n.a.	W24
T 25	14 0 18	1°15'07	16° 1	6°15	9°36	4°39	18°41	2°45	27°43	24° 8	10°54	21°30	22°53	20° 5	n.a.	T 25
F 26	14 4 15	2°12'36	28°21	7°19	10°49	5°23	18°48	2°53	27°40	24° 9	10°55	21°22	22°50	20°11	n.a.	F 26
S 27	14 8 11	3°10'05	10♈32	8°26	12° 2	6° 7	18°55	3° 1	27°38	24°11	10°56	21°13	22°46	20°18	n.a.	S 27
S 28	14 12 8	4° 7'32	22°34	9°36	13°15	6°51	19° 2	3° 9	27°35	24°12	10°58	21° 4	22°43	20°25	n.a.	S 28
M29	14 16 4	5° 4'59	4♉30	10°49	14°28	7°35	19° 9	3°17	27°33	24°13	10°59	20°56	22°40	20°31	n.a.	M29
T 30	14 20 1	6♉ 2'24	16♉22	12♈ 5	15♈41	8♈19	19♋16	3♉25	27♎30	24♒14	11♈ 0	20♊50	22♊37	20♉38	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	3n16	6n 6	4s14	0n28	0n29	9s 6	1s30	6s13	1s 0	23n34	0n56	9n33	2s 4	10s41	0n29	14s49	1s 4	10s36	16s 4	23n32	23n35	14n16		n.a.
T 2	3 39	10 50	3 35	0s 0	0 12	8 39	1 31	5 55	1 0	23 34	0 55	9 35	2 4	10 40	0 29	14 49	1 4	10 35	16 4	23 31	23 35	14 18		n.a.
W 3	4 2	15 8	2 46	0 27	0s 4	8 11	1 32	5 37	1 0	23 33	0 55	9 38	2 4	10 39	0 29	14 48	1 4	10 35	16 4	23 31	23 34	14 21		n.a.
T 4	4 25	18 50	1 51	0 53	0 21	7 44	1 33	5 19	1 0	23 33	0 55	9 41	2 4	10 39	0 29	14 48	1 4	10 34	16 4	23 30	23 34	14 23		n.a.
F 5	4 48	21 47	0 51	1 16	0 37	7 16	1 34	5 0	0 59	23 32	0 55	9 44	2 4	10 38	0 29	14 47	1 4	10 34	16 4	23 30	23 34	14 26		n.a.
S 6	5 11	23 49	0n12	1 37	0 52	6 48	1 34	4 42	0 59	23 32	0 55	9 46	2 4	10 37	0 29	14 47	1 4	10 33	16 4	23 30	23 34	14 28		n.a.
S 7	5 34	24 47	1 16	1 56	1 7	6 20	1 35	4 24	0 59	23 31	0 55	9 49	2 4	10 36	0 29	14 46	1 4	10 33	16 4	23 30	23 34	14 31		n.a.
M 8	5 56	24 34	2 17	2 12	1 21	5 52	1 35	4 6	0 58	23 30	0 55	9 52	2 3	10 35	0 29	14 46	1 4	10 32	16 4	23 30	23 34	14 34		n.a.
T 9	6 19	23 5	3 14	2 26	1 34	5 23	1 36	3 47	0 58	23 30	0 55	9 55	2 3	10 34	0 29	14 45	1 4	10 32	16 4	23 30	23 34	14 36		n.a.
W10	6 41	20 20	4 2	2 37	1 47	4 54	1 36	3 29	0 58	23 29	0 55	9 58	2 3	10 33	0 29	14 45	1 4	10 31	16 4	23 30	23 33	14 39		n.a.
T 11	7 4	16 25	4 38	2 46	1 59	4 26	1 36	3 11	0 57	23 29	0 55	10 0	2 3	10 33	0 29	14 44	1 4	10 31	16 4	23 30	23 33	14 41		n.a.
F 12	7 26	11 29	5 0	2 52	2 9	3 57	1 36	2 52	0 57	23 28	0 55	10 3	2 3	10 32	0 29	14 44	1 4	10 30	16 4	23 29	23 33	14 44		n.a.
S 13	7 48	5 46	5 3	2 55	2 19	3 28	1 36	2 34	0 57	23 27	0 55	10 6	2 3	10 31	0 29	14 43	1 4	10 30	16 4	23 29	23 33	14 46		n.a.
S 14	8 10	0s25	4 46	2 56	2 28	2 59	1 36	2 16	0 56	23 26	0 55	10 9	2 3	10 30	0 29	14 43	1 4	10 29	16 4	23 28	23 33	14 49		n.a.
M15	8 32	6 40	4 9	2 54	2 37	2 29	1 36	1 58	0 56	23 26	0 55	10 12	2 3	10 29	0 29	14 42	1 4	10 29	16 4	23 28	23 33	14 51		n.a.
T 16	8 54	12 35	3 15	2 49	2 44	2 0	1 36	1 39	0 55	23 25	0 54	10 14	2 3	10 28	0 29	14 42	1 4	10 28	16 4	23 27	23 32	14 54		n.a.
W17	9 15	17 42	2 7	2 42	2 50	1 31	1 36	1 21	0 55	23 24	0 54	10 17	2 3	10 27	0 29	14 42	1 4	10 28	16 4	23 27	23 32	14 56		n.a.
T 18	9 37	21 38	0 52	2 33	2 56	1 1	1 36	1 3	0 55	23 23	0 54	10 20	2 3	10 26	0 29	14 41	1 5	10 27	16 4	23 27	23 32	14 59		n.a.
F 19	9 58	24 6	0s26	2 21	3 1	0 32	1 36	0 44	0 54	23 22	0 54	10 23	2 3	10 25	0 28	14 41	1 5	10 27	16 4	23 27	23 32	15 1		n.a.
S 20	10 19	24 56	1 40	2 7	3 5	0 2	1 35	0 26	0 54	23 22	0 54	10 26	2 2	10 25	0 28	14 40	1 5	10 26	16 4	23 27	23 32	15 4		n.a.
S 21	10 40	24 13	2 46	1 51	3 8	0n28	1 35	0 8	0 53	23 21	0 54	10 28	2 2	10 24	0 28	14 40	1 5	10 26	16 4	23 27	23 32	15 6		n.a.
M22	11 1	22 7	3 41	1 33	3 10	0 57	1 34	0n10	0 53	23 20	0 54	10 31	2 2	10 23	0 28	14 40	1 5	10 25	16 5	23 27	23 31	15 9		n.a.
T 23	11 22	18 54	4 24	1 12	3 12	1 27	1 34	0 28	0 53	23 19	0 54	10 34	2 2	10 22	0 28	14 39	1 5	10 25	16 5	23 27	23 31	15 11		n.a.
W24	11 42	14 52	4 52	0 50	3 12	1 56	1 33	0 47	0 52	23 18	0 54	10 37	2 2	10 21	0 28	14 39	1 5	10 25	16 5	23 26	23 31	15 14		n.a.
T 25	12 2	10 15	5 5	0 26	3 12	2 26	1 32	1 5	0 52	23 17	0 54	10 39	2 2	10 20	0 28	14 39	1 5	10 24	16 5	23 26	23 31	15 16		n.a.
F 26	12 23	5 18	5 5	0n 0	3 12	2 56	1 31	1 23	0 51	23 16	0 54	10 42	2 2	10 19	0 28	14 38	1 5	10 24	16 5	23 26	23 31	15 19		n.a.
S 27	12 43	0 13	4 50	0 28	3 10	3 25	1 31	1 41	0 51	23 15	0 54	10 45	2 2	10 18	0 28	14 38	1 5	10 23	16 5	23 25	23 31	15 21		n.a.
S 28	13 2	4n50	4 22	0 58	3 8	3 55	1 30	1 59	0 51	23 14	0 54	10 48	2 2	10 17	0 28	14 38	1 5	10 23	16 5	23 24	23 30	15 24		n.a.
M29	13 22	9 40	3 43	1 29	3 5	4 24	1 29	2 17	0 50	23 13	0 54	10 50	2 2	10 17	0 28	14 37	1 5	10 23	16 5	23 24	23 30	15 26		n.a.
T 30	13n41	14n 8	2s55	2n 2	3s 2	4n53	1s28	2n35	0s50	23n12	0n54	10n53	2s 2	10s16	0n28	14s37	1s 5	10s22	16s 5	23n23	23n30	15n29		n.a.

Julian Day Number = 1677318.5, Delta T = 03h17m21s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'59, Lahiri = - 5°36'59 Julian Calendar 1 Apr. 121 BCE == Greg. Calendar 29 March 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

MAY 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 23 58	6♉59'48	28♉10	13♈23	16♈54	9♈ 3	19♋23	3♉33	27°R28	24♒15	11♈ 1	20°R45	22♊34	20♉45	n.a.	W 1
T 2	14 27 54	7°57'11	9♊57	14°45	18° 7	9°47	19°31	3°40	27♎25	24°16	11° 3	20♊42	22°30	20°51	n.a.	T 2
F 3	14 31 51	8°54'33	21°47	16° 9	19°19	10°31	19°39	3°48	27°23	24°16	11° 4	20°D42	22°27	20°58	n.a.	F 3
S 4	14 35 47	9°51'54	3♋42	17°35	20°32	11°14	19°46	3°56	27°20	24°17	11° 5	20°43	22°24	21° 5	n.a.	S 4
S 5	14 39 44	10°49'14	15°47	19° 5	21°45	11°58	19°54	4° 4	27°18	24°18	11° 6	20°44	22°21	21°11	n.a.	S 5
M 6	14 43 40	11°46'33	28° 6	20°37	22°58	12°41	20° 2	4°12	27°16	24°19	11° 8	20°45	22°18	21°18	n.a.	M 6
T 7	14 47 37	12°43'50	10♌44	22°11	24°11	13°25	20°11	4°20	27°13	24°20	11° 9	20°R46	22°15	21°25	n.a.	T 7
W 8	14 51 33	13°41'07	23°45	23°48	25°24	14° 8	20°19	4°27	27°11	24°20	11°10	20°46	22°11	21°31	n.a.	W 8
T 9	14 55 30	14°38'22	7♍12	25°28	26°37	14°52	20°27	4°35	27° 8	24°21	11°11	20°44	22° 8	21°38	n.a.	T 9
F 10	14 59 27	15°35'36	21° 8	27°11	27°50	15°35	20°36	4°43	27° 6	24°22	11°12	20°40	22° 5	21°45	n.a.	F 10
S 11	15 3 23	16°32'49	5♎32	28°56	29° 3	16°18	20°44	4°51	27° 4	24°23	11°14	20°36	22° 2	21°51	n.a.	S 11
S 12	15 7 20	17°30'02	20°20	0♉43	0♉16	17° 1	20°53	4°58	27° 2	24°23	11°15	20°31	21°59	21°58	n.a.	S 12
M13	15 11 16	18°27'13	5♏25	2°33	1°29	17°45	21° 2	5° 6	26°59	24°24	11°16	20°27	21°55	22° 5	n.a.	M13
T 14	15 15 13	19°24'24	20°39	4°26	2°43	18°28	21°11	5°14	26°57	24°24	11°17	20°24	21°52	22°11	n.a.	T 14
W15	15 19 9	20°21'34	5♐52	6°21	3°56	19°11	21°20	5°22	26°55	24°25	11°18	20°22	21°49	22°18	n.a.	W15
T 16	15 23 6	21°18'44	20°53	8°18	5° 9	19°54	21°29	5°29	26°53	24°25	11°19	20°D21	21°46	22°25	n.a.	T 16
F 17	15 27 2	22°15'54	5♑35	10°17	6°22	20°36	21°38	5°37	26°50	24°26	11°20	20°22	21°43	22°31	n.a.	F 17
S 18	15 30 59	23°13'03	19°54	12°19	7°35	21°19	21°48	5°45	26°48	24°26	11°21	20°23	21°40	22°38	n.a.	S 18
S 19	15 34 56	24°10'12	3♒47	14°22	8°48	22° 2	21°57	5°52	26°46	24°27	11°22	20°24	21°36	22°45	n.a.	S 19
M20	15 38 52	25° 7'21	17°14	16°28	10° 1	22°45	22° 7	6° 0	26°44	24°27	11°23	20°25	21°33	22°51	n.a.	M20
T 21	15 42 49	26° 4'29	0♓17	18°35	11°14	23°27	22°16	6° 7	26°42	24°27	11°24	20°R25	21°30	22°58	n.a.	T 21
W22	15 46 45	27° 1'38	13° 0	20°43	12°28	24°10	22°26	6°15	26°40	24°28	11°25	20°25	21°27	23° 5	n.a.	W22
T 23	15 50 42	27°58'46	25°26	22°52	13°41	24°53	22°36	6°22	26°38	24°28	11°26	20°23	21°24	23°11	n.a.	T 23
F 24	15 54 38	28°55'55	7♈38	25° 2	14°54	25°35	22°46	6°30	26°36	24°28	11°27	20°20	21°21	23°18	n.a.	F 24
S 25	15 58 35	29°53'03	19°40	27°13	16° 7	26°18	22°56	6°37	26°34	24°28	11°28	20°17	21°17	23°25	n.a.	S 25
S 26	16 2 32	0♊50'11	1♉35	29°24	17°21	27° 0	23° 6	6°45	26°32	24°29	11°29	20°14	21°14	23°31	n.a.	S 26
M27	16 6 28	1°47'19	13°25	1♊35	18°34	27°42	23°16	6°52	26°30	24°29	11°30	20°11	21°11	23°38	n.a.	M27
T 28	16 10 25	2°44'27	25°13	3°46	19°47	28°24	23°26	7° 0	26°28	24°29	11°31	20° 9	21° 8	23°45	n.a.	T 28
W29	16 14 21	3°41'35	7♊ 2	5°56	21° 1	29° 7	23°37	7° 7	26°26	24°29	11°32	20° 7	21° 5	23°51	n.a.	W29
T 30	16 18 18	4°38'43	18°52	8° 6	22°14	29°49	23°47	7°14	26°25	24°29	11°33	20°D 7	21° 1	23°58	n.a.	T 30
F 31	16 22 14	5♊35'51	0♋47	10♊14	23♉27	0♉31	23♋58	7♉22	26♎23	24°R29	11♈34	20♊ 7	20♊58	24♉ 5	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	14n 0	18n 2	1s59	2n37	2s58	5n23	1s27	2n52	0s49	23n10	0n54	10n56	2s 2	10s15	0n28	14s37	1s 5	10s22	16s 5	23n23	23n30	15n31			n.a.
T 2	14 19	21 14	0 58	3 13	2 53	5 52	1 25	3 10	0 49	23 9	0 53	10 58	2 2	10 14	0 28	14 36	1 5	10 21	16 6	23 23	23 30	15 34			n.a.
F 3	14 38	23 33	0n 6	3 50	2 48	6 21	1 24	3 28	0 48	23 8	0 53	11 1	2 2	10 13	0 28	14 36	1 5	10 21	16 6	23 23	23 30	15 36			n.a.
S 4	14 56	24 50	1 10	4 29	2 42	6 50	1 23	3 46	0 48	23 7	0 53	11 4	2 2	10 12	0 28	14 36	1 5	10 21	16 6	23 23	23 29	15 39			n.a.
S 5	15 14	24 57	2 12	5 9	2 36	7 19	1 22	4 3	0 47	23 6	0 53	11 7	2 2	10 11	0 28	14 36	1 5	10 20	16 6	23 23	23 29	15 41			n.a.
M 6	15 32	23 52	3 10	5 51	2 29	7 47	1 20	4 21	0 47	23 4	0 53	11 9	2 2	10 10	0 28	14 35	1 5	10 20	16 6	23 23	23 29	15 44			n.a.
T 7	15 50	21 34	3 59	6 33	2 21	8 16	1 19	4 39	0 46	23 3	0 53	11 12	2 2	10 10	0 28	14 35	1 5	10 20	16 6	23 23	23 29	15 46			n.a.
W 8	16 8	18 7	4 38	7 17	2 13	8 44	1 17	4 56	0 46	23 2	0 53	11 14	2 2	10 9	0 28	14 35	1 5	10 19	16 6	23 23	23 29	15 49			n.a.
T 9	16 25	13 39	5 3	8 2	2 5	9 12	1 16	5 13	0 45	23 0	0 53	11 17	2 2	10 8	0 28	14 35	1 5	10 19	16 7	23 23	23 28	15 51			n.a.
F 10	16 42	8 19	5 12	8 47	1 56	9 40	1 14	5 31	0 45	22 59	0 53	11 20	2 2	10 7	0 28	14 35	1 5	10 19	16 7	23 23	23 28	15 54			n.a.
S 11	16 58	2 23	5 1	9 34	1 46	10 8	1 13	5 48	0 44	22 58	0 53	11 22	2 2	10 6	0 28	14 34	1 6	10 19	16 7	23 22	23 28	15 56			n.a.
S 12	17 15	3s51	4 31	10 21	1 37	10 35	1 11	6 5	0 44	22 56	0 53	11 25	2 2	10 5	0 28	14 34	1 6	10 18	16 7	23 22	23 28	15 58			n.a.
M13	17 31	10 0	3 41	11 8	1 27	11 3	1 9	6 22	0 43	22 55	0 53	11 28	2 2	10 5	0 28	14 34	1 6	10 18	16 7	23 22	23 28	16 1			n.a.
T 14	17 47	15 37	2 36	11 57	1 16	11 30	1 7	6 39	0 43	22 53	0 53	11 30	2 2	10 4	0 28	14 34	1 6	10 18	16 7	23 21	23 27	16 3			n.a.
W15	18 2	20 14	1 19	12 45	1 6	11 56	1 6	6 56	0 42	22 52	0 53	11 33	2 2	10 3	0 28	14 34	1 6	10 17	16 8	23 21	23 27	16 6			n.a.
T 16	18 18	23 26	0s 3	13 34	0 55	12 23	1 4	7 13	0 42	22 50	0 53	11 35	2 2	10 2	0 28	14 34	1 6	10 17	16 8	23 21	23 27	16 8			n.a.
F 17	18 33	24 58	1 23	14 23	0 44	12 49	1 2	7 30	0 41	22 49	0 53	11 38	2 2	10 1	0 28	14 34	1 6	10 17	16 8	23 21	23 27	16 11			n.a.
S 18	18 47	24 46	2 35	15 11	0 33	13 15	1 0	7 47	0 41	22 47	0 53	11 40	2 2	10 1	0 28	14 33	1 6	10 17	16 8	23 21	23 27	16 13			n.a.
S 19	19 2	23 2	3 36	15 59	0 22	13 41	0 58	8 3	0 40	22 46	0 53	11 43	2 2	10 0	0 28	14 33	1 6	10 16	16 8	23 22	23 26	16 16			n.a.
M20	19 16	20 1	4 24	16 46	0 11	14 6	0 56	8 20	0 40	22 44	0 53	11 45	2 2	9 59	0 28	14 33	1 6	10 16	16 9	23 22	23 26	16 18			n.a.
T 21	19 29	16 6	4 56	17 33	0n 0	14 31	0 54	8 36	0 39	22 43	0 53	11 48	2 2	9 58	0 28	14 33	1 6	10 16	16 9	23 22	23 26	16 20			n.a.
W22	19 43	11 32	5 12	18 18	0 11	14 56	0 52	8 53	0 39	22 41	0 53	11 50	2 2	9 58	0 28	14 33	1 6	10 16	16 9	23 22	23 26	16 23			n.a.
T 23	19 56	6 37	5 13	19 3	0 21	15 20	0 50	9 9	0 38	22 39	0 52	11 53	2 2	9 57	0 28	14 33	1 6	10 16	16 9	23 21	23 26	16 25			n.a.
F 24	20 9	1 32	5 1	19 45	0 32	15 44	0 48	9 25	0 37	22 38	0 52	11 55	2 2	9 56	0 28	14 33	1 6	10 15	16 10	23 21	23 25	16 28			n.a.
S 25	20 21	3n33	4 35	20 26	0 41	16 7	0 45	9 41	0 37	22 36	0 52	11 58	2 2	9 56	0 28	14 33	1 6	10 15	16 10	23 21	23 25	16 30			n.a.
S 26	20 33	8 27	3 57	21 5	0 51	16 31	0 43	9 57	0 36	22 34	0 52	12 0	2 2	9 55	0 28	14 33	1 6	10 15	16 10	23 21	23 25	16 33			n.a.
M27	20 45	13 2	3 9	21 41	1 0	16 53	0 41	10 13	0 36	22 32	0 52	12 3	2 2	9 54	0 28	14 33	1 6	10 15	16 10	23 21	23 25	16 35			n.a.
T 28	20 57	17 8	2 13	22 15	1 8	17 16	0 39	10 29	0 35	22 31	0 52	12 5	2 2	9 54	0 28	14 33	1 6	10 15	16 10	23 20	23 25	16 37			n.a.
W29	21 8	20 33	1 12	22 47	1 16	17 38	0 37	10 45	0 35	22 29	0 52	12 7	2 2	9 53	0 28	14 33	1 6	10 15	16 11	23 20	23 24	16 40			n.a.
T 30	21 18	23 7	0 7	23 16	1 23	17 59	0 34	11 0	0 34	22 27	0 52	12 10	2 2	9 52	0 28	14 33	1 6	10 15	16 11	23 20	23 24	16 42			n.a.
F 31	21n29	24n41	0n59	23n43	1n29	18n20	0s32	11n16	0s33	22n25	0n52	12n12	2s 2	9s52	0n28	14s33	1s 6	10s15	16s11	23n20	23n24	16n45			n.a.

Julian Day Number = 1677348.5, Delta T = 03h17m20s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'55, Lahiri = - 5°36'55 Julian Calendar 1 May 121 BCE == Greg. Calendar 28 Apr. 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

JUNE 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 26 11	6♊32'59	12♋50	12♊22	24♉41	1♉13	24♋ 8	7♉29	26°R21	24°R29	11♈35	20♊ 8	20♊55	24♉11	n.a.	S 1
S 2	16 30 7	7°30'06	25° 2	14°28	25°54	1°55	24°19	7°36	26♎19	24♒29	11°36	20° 9	20°52	24°18	n.a.	S 2
M 3	16 34 4	8°27'13	7♌28	16°33	27° 7	2°36	24°30	7°43	26°18	24°29	11°37	20°10	20°49	24°24	n.a.	M 3
T 4	16 38 1	9°24'20	20° 9	18°36	28°21	3°18	24°41	7°50	26°16	24°29	11°37	20°11	20°46	24°31	n.a.	T 4
W 5	16 41 57	10°21'27	3♍10	20°37	29°34	4° 0	24°52	7°57	26°15	24°29	11°38	20°11	20°42	24°38	n.a.	W 5
T 6	16 45 54	11°18'34	16°34	22°37	0♊48	4°42	25° 3	8° 5	26°13	24°28	11°39	20°R11	20°39	24°44	n.a.	T 6
F 7	16 49 50	12°15'41	0♎21	24°34	2° 1	5°23	25°14	8°12	26°12	24°28	11°40	20°11	20°36	24°51	n.a.	F 7
S 8	16 53 47	13°12'47	14°33	26°30	3°15	6° 5	25°25	8°18	26°10	24°28	11°40	20°11	20°33	24°58	n.a.	S 8
S 9	16 57 43	14° 9'53	29° 7	28°24	4°28	6°46	25°36	8°25	26° 9	24°28	11°41	20°10	20°30	25° 4	n.a.	S 9
M10	17 1 40	15° 7'00	13♏59	0♋17	5°42	7°28	25°47	8°32	26° 7	24°27	11°42	20° 9	20°27	25°11	n.a.	M10
T 11	17 5 36	16° 4'07	29° 3	2° 7	6°55	8° 9	25°59	8°39	26° 6	24°27	11°43	20° 9	20°23	25°18	n.a.	T 11
W12	17 9 33	17° 1'14	14♐11	3°55	8° 9	8°50	26°10	8°46	26° 5	24°27	11°43	20°D 9	20°20	25°24	n.a.	W12
T 13	17 13 30	17°58'21	29°12	5°42	9°22	9°31	26°21	8°53	26° 4	24°26	11°44	20° 9	20°17	25°31	n.a.	T 13
F 14	17 17 26	18°55'29	13♑59	7°26	10°36	10°13	26°33	8°59	26° 2	24°26	11°45	20° 9	20°14	25°38	n.a.	F 14
S 15	17 21 23	19°52'37	28°26	9° 9	11°49	10°54	26°45	9° 6	26° 1	24°25	11°45	20°R 9	20°11	25°44	n.a.	S 15
S 16	17 25 19	20°49'46	12♒27	10°49	13° 3	11°35	26°56	9°12	26° 0	24°25	11°46	20° 9	20° 7	25°51	n.a.	S 16
M17	17 29 16	21°46'56	26° 2	12°28	14°17	12°16	27° 8	9°19	25°59	24°24	11°46	20° 9	20° 4	25°58	n.a.	M17
T 18	17 33 12	22°44'07	9♓11	14° 5	15°30	12°56	27°20	9°25	25°58	24°24	11°47	20° 9	20° 1	26° 4	n.a.	T 18
W19	17 37 9	23°41'18	21°56	15°40	16°44	13°37	27°31	9°32	25°57	24°23	11°48	20°D 9	19°58	26°11	n.a.	W19
T 20	17 41 6	24°38'30	4♈22	17°13	17°58	14°18	27°43	9°38	25°56	24°23	11°48	20° 9	19°55	26°18	n.a.	T 20
F 21	17 45 2	25°35'43	16°32	18°44	19°12	14°59	27°55	9°45	25°55	24°22	11°49	20° 9	19°52	26°24	n.a.	F 21
S 22	17 48 59	26°32'57	28°30	20°13	20°25	15°39	28° 7	9°51	25°54	24°21	11°49	20° 9	19°48	26°31	n.a.	S 22
S 23	17 52 55	27°30'12	10♉21	21°40	21°39	16°20	28°19	9°57	25°54	24°21	11°49	20°10	19°45	26°38	n.a.	S 23
M24	17 56 52	28°27'28	22° 9	23° 5	22°53	17° 0	28°31	10° 3	25°53	24°20	11°50	20°11	19°42	26°44	n.a.	M24
T 25	18 0 48	29°24'44	3♊57	24°28	24° 7	17°41	28°43	10° 9	25°52	24°19	11°50	20°12	19°39	26°51	n.a.	T 25
W26	18 4 45	0♋22'02	15°49	25°49	25°21	18°21	28°56	10°15	25°52	24°18	11°51	20°R12	19°36	26°58	n.a.	W26
T 27	18 8 41	1°19'21	27°46	27° 8	26°34	19° 1	29° 8	10°21	25°51	24°17	11°51	20°12	19°33	27° 4	n.a.	T 27
F 28	18 12 38	2°16'40	9♋52	28°25	27°48	19°42	29°20	10°27	25°51	24°17	11°52	20°11	19°29	27°11	n.a.	F 28
S 29	18 16 35	3°14'01	22° 7	29°39	29° 2	20°22	29°32	10°33	25°50	24°16	11°52	20°10	19°26	27°18	n.a.	S 29
S 30	18 20 31	4♋11'22	4♌33	0♌51	0♋16	21♉ 2	29♋45	10♉39	25♎50	24♒15	11♈52	20♊ 8	19♊23	27♉24	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n39	25n 7	2n 3	24n 6	1n35	18n40	0s30	11n31	0s33	22n23	0n52	12n14	2s 2	9s51	0n28	14s33	1s 7	10s14	16s11	23n20	23n24	16n47		n.a.
S 2	21 49	24 21	3 2	24 27	1 40	19 0	0 27	11 46	0 32	22 21	0 52	12 17	2 2	9 50	0 28	14 33	1 7	10 14	16 12	23 20	23 23	16 49		n.a.
M 3	21 58	22 22	3 53	24 45	1 44	19 20	0 25	12 1	0 32	22 19	0 52	12 19	2 2	9 50	0 28	14 33	1 7	10 14	16 12	23 20	23 23	16 52		n.a.
T 4	22 7	19 16	4 35	25 1	1 48	19 39	0 23	12 16	0 31	22 17	0 52	12 21	2 2	9 49	0 28	14 33	1 7	10 14	16 12	23 21	23 23	16 54		n.a.
W 5	22 15	15 10	5 3	25 13	1 51	19 58	0 20	12 31	0 30	22 15	0 52	12 23	2 2	9 49	0 28	14 33	1 7	10 14	16 12	23 21	23 23	16 57		n.a.
T 6	22 23	10 13	5 17	25 23	1 53	20 16	0 18	12 46	0 30	22 13	0 52	12 26	2 3	9 48	0 28	14 34	1 7	10 14	16 13	23 21	23 23	16 59		n.a.
F 7	22 31	4 38	5 12	25 31	1 55	20 33	0 15	13 1	0 29	22 11	0 52	12 28	2 3	9 48	0 28	14 34	1 7	10 14	16 13	23 21	23 22	17 1		n.a.
S 8	22 39	1s21	4 49	25 35	1 56	20 50	0 13	13 15	0 28	22 9	0 52	12 30	2 3	9 47	0 28	14 34	1 7	10 14	16 13	23 20	23 22	17 4		n.a.
S 9	22 46	7 26	4 7	25 38	1 56	21 6	0 11	13 29	0 28	22 7	0 52	12 32	2 3	9 47	0 28	14 34	1 7	10 14	16 14	23 20	23 22	17 6		n.a.
M10	22 52	13 14	3 8	25 38	1 55	21 22	0 8	13 44	0 27	22 5	0 52	12 34	2 3	9 46	0 28	14 34	1 7	10 14	16 14	23 20	23 22	17 9		n.a.
T 11	22 58	18 19	1 55	25 36	1 54	21 37	0 6	13 58	0 27	22 3	0 52	12 36	2 3	9 46	0 28	14 34	1 7	10 14	16 14	23 20	23 21	17 11		n.a.
W12	23 4	22 13	0 33	25 32	1 53	21 52	0 3	14 12	0 26	22 0	0 52	12 39	2 3	9 45	0 27	14 34	1 7	10 14	16 14	23 20	23 21	17 13		n.a.
T 13	23 10	24 33	0s50	25 25	1 50	22 5	0 1	14 26	0 25	21 58	0 52	12 41	2 3	9 45	0 27	14 35	1 7	10 14	16 15	23 20	23 21	17 16		n.a.
F 14	23 15	25 6	2 9	25 17	1 47	22 19	0n 2	14 39	0 25	21 56	0 52	12 43	2 3	9 45	0 27	14 35	1 7	10 14	16 15	23 20	23 21	17 18		n.a.
S 15	23 19	23 55	3 17	25 7	1 44	22 31	0 4	14 53	0 24	21 54	0 52	12 45	2 3	9 44	0 27	14 35	1 7	10 14	16 15	23 20	23 21	17 20		n.a.
S 16	23 23	21 17	4 12	24 55	1 40	22 44	0 6	15 6	0 23	21 51	0 52	12 47	2 3	9 44	0 27	14 35	1 7	10 14	16 16	23 20	23 20	17 23		n.a.
M17	23 27	17 31	4 50	24 42	1 36	22 55	0 9	15 20	0 23	21 49	0 52	12 49	2 3	9 43	0 27	14 35	1 7	10 14	16 16	23 20	23 20	17 25		n.a.
T 18	23 30	13 1	5 12	24 27	1 31	23 6	0 11	15 33	0 22	21 47	0 52	12 51	2 3	9 43	0 27	14 36	1 7	10 14	16 16	23 20	23 20	17 27		n.a.
W19	23 33	8 5	5 17	24 11	1 25	23 16	0 13	15 46	0 21	21 44	0 52	12 53	2 4	9 43	0 27	14 36	1 7	10 14	16 16	23 20	23 20	17 30		n.a.
T 20	23 36	2 57	5 8	23 54	1 19	23 25	0 16	15 59	0 21	21 42	0 52	12 55	2 4	9 42	0 27	14 36	1 7	10 14	16 17	23 20	23 19	17 32		n.a.
F 21	23 38	2n12	4 45	23 35	1 13	23 34	0 18	16 12	0 20	21 40	0 52	12 57	2 4	9 42	0 27	14 36	1 7	10 14	16 17	23 20	23 19	17 34		n.a.
S 22	23 40	7 11	4 9	23 15	1 6	23 42	0 20	16 24	0 19	21 37	0 52	12 58	2 4	9 42	0 27	14 37	1 7	10 14	16 17	23 20	23 19	17 37		n.a.
S 23	23 41	11 52	3 24	22 54	0 59	23 49	0 23	16 37	0 19	21 35	0 52	13 0	2 4	9 42	0 27	14 37	1 8	10 14	16 18	23 20	23 19	17 39		n.a.
M24	23 42	16 6	2 29	22 33	0 51	23 56	0 25	16 49	0 18	21 32	0 52	13 2	2 4	9 41	0 27	14 37	1 8	10 15	16 18	23 21	23 18	17 41		n.a.
T 25	23 43	19 43	1 29	22 10	0 43	24 2	0 27	17 1	0 17	21 30	0 52	13 4	2 4	9 41	0 27	14 38	1 8	10 15	16 18	23 21	23 18	17 44		n.a.
W26	23 43	22 33	0 24	21 47	0 34	24 7	0 29	17 13	0 16	21 27	0 52	13 6	2 4	9 41	0 27	14 38	1 8	10 15	16 19	23 21	23 18	17 46		n.a.
T 27	23 42	24 23	0n42	21 23	0 26	24 12	0 32	17 25	0 16	21 25	0 52	13 7	2 4	9 41	0 27	14 38	1 8	10 15	16 19	23 21	23 18	17 48		n.a.
F 28	23 41	25 7	1 47	20 59	0 16	24 15	0 34	17 37	0 15	21 22	0 52	13 9	2 5	9 41	0 27	14 38	1 8	10 15	16 19	23 21	23 17	17 51		n.a.
S 29	23 40	24 38	2 48	20 34	0 7	24 18	0 36	17 49	0 14	21 20	0 52	13 11	2 5	9 40	0 27	14 39	1 8	10 15	16 19	23 20	23 17	17 53		n.a.
S 30	23n39	22n55	3n42	20n 9	0s 3	24n21	0n38	18n 0	0s14	21n17	0n52	13n13	2s 5	9s40	0n27	14s39	1s 8	10s15	16s20	23n20	23n17	17n55		n.a.

Julian Day Number = 1677379.5, Delta T = 03h17m19s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'51, Lahiri = - 5°36'50 Julian Calendar 1 June 121 BCE == Greg. Calendar 29 May 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

JULY 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 24 28	5♋ 8'44	17♌12	2♌ 1	1♋30	21♉42	29♋57	10♉44	25°R49	24°R14	11♈53	20°R 6	19♊20	27♉31	n.a.	M 1
T 2	18 28 24	6° 6'06	0♍ 6	3° 9	2°44	22°22	0♌ 9	10°50	25♎49	24♒13	11°53	20♊ 4	19°17	27°38	n.a.	T 2
W 3	18 32 21	7° 3'30	13°15	4°14	3°58	23° 2	0°22	10°56	25°49	24°12	11°53	20° 2	19°13	27°44	n.a.	W 3
T 4	18 36 17	8° 0'54	26°40	5°16	5°12	23°42	0°34	11° 1	25°49	24°11	11°53	20° 1	19°10	27°51	n.a.	T 4
F 5	18 40 14	8°58'19	10♎24	6°16	6°26	24°21	0°47	11° 6	25°48	24°10	11°54	20°D 1	19° 7	27°58	n.a.	F 5
S 6	18 44 10	9°55'45	24°25	7°13	7°40	25° 1	1° 0	11°12	25°48	24° 9	11°54	20° 1	19° 4	28° 4	n.a.	S 6
S 7	18 48 7	10°53'11	8♏43	8° 7	8°54	25°40	1°12	11°17	25°48	24° 8	11°54	20° 3	19° 1	28°11	n.a.	S 7
M 8	18 52 4	11°50'39	23°15	8°57	10° 8	26°20	1°25	11°22	25°D48	24° 7	11°54	20° 4	18°58	28°18	n.a.	M 8
T 9	18 56 0	12°48'07	7♐59	9°45	11°22	26°59	1°37	11°27	25°48	24° 6	11°54	20° 5	18°54	28°24	n.a.	T 9
W10	18 59 57	13°45'37	22°47	10°29	12°37	27°39	1°50	11°32	25°48	24° 4	11°54	20°R 5	18°51	28°31	n.a.	W10
T 11	19 3 53	14°43'08	7♑35	11° 9	13°51	28°18	2° 3	11°37	25°48	24° 3	11°54	20° 4	18°48	28°38	n.a.	T 11
F 12	19 7 50	15°40'40	22°13	11°46	15° 5	28°57	2°16	11°42	25°49	24° 2	11°55	20° 2	18°45	28°44	n.a.	F 12
S 13	19 11 46	16°38'13	6♒36	12°19	16°19	29°36	2°28	11°47	25°49	24° 1	11°55	19°59	18°42	28°51	n.a.	S 13
S 14	19 15 43	17°35'47	20°38	12°47	17°33	0♊16	2°41	11°52	25°49	24° 0	11°55	19°55	18°39	28°57	n.a.	S 14
M15	19 19 39	18°33'23	4♓15	13°11	18°47	0°55	2°54	11°56	25°50	23°58	11°R55	19°51	18°35	29° 4	n.a.	M15
T 16	19 23 36	19°31'01	17°28	13°30	20° 2	1°33	3° 7	12° 1	25°50	23°57	11°55	19°47	18°32	29°11	n.a.	T 16
W17	19 27 33	20°28'40	0♈17	13°45	21°16	2°12	3°20	12° 5	25°50	23°56	11°55	19°45	18°29	29°17	n.a.	W17
T 18	19 31 29	21°26'21	12°44	13°54	22°30	2°51	3°33	12°10	25°51	23°54	11°55	19°43	18°26	29°24	n.a.	T 18
F 19	19 35 26	22°24'04	24°55	13°R58	23°44	3°30	3°45	12°14	25°51	23°53	11°55	19°D43	18°23	29°31	n.a.	F 19
S 20	19 39 22	23°21'48	6♉53	13°57	24°59	4° 9	3°58	12°18	25°52	23°52	11°54	19°43	18°19	29°37	n.a.	S 20
S 21	19 43 19	24°19'34	18°43	13°50	26°13	4°47	4°11	12°22	25°53	23°50	11°54	19°45	18°16	29°44	n.a.	S 21
M22	19 47 15	25°17'22	0♊31	13°37	27°27	5°26	4°24	12°26	25°53	23°49	11°54	19°47	18°13	29°51	n.a.	M22
T 23	19 51 12	26°15'12	12°21	13°19	28°42	6° 4	4°37	12°30	25°54	23°47	11°54	19°48	18°10	29°57	n.a.	T 23
W24	19 55 8	27°13'04	24°18	12°54	29°56	6°42	4°50	12°34	25°55	23°46	11°54	19°R48	18° 7	0♊ 4	n.a.	W24
T 25	19 59 5	28°10'57	6♋23	12°24	1♌11	7°21	5° 3	12°38	25°56	23°45	11°54	19°47	18° 4	0°11	n.a.	T 25
F 26	20 3 2	29° 8'52	18°41	11°49	2°25	7°59	5°16	12°42	25°57	23°43	11°53	19°43	18° 0	0°17	n.a.	F 26
S 27	20 6 58	0♌ 6'49	1♌12	11° 8	3°39	8°37	5°29	12°45	25°58	23°42	11°53	19°38	17°57	0°24	n.a.	S 27
S 28	20 10 55	1° 4'47	13°58	10°23	4°54	9°15	5°42	12°49	25°59	23°40	11°53	19°32	17°54	0°31	n.a.	S 28
M29	20 14 51	2° 2'47	26°58	9°33	6° 8	9°53	5°55	12°52	26° 0	23°39	11°53	19°25	17°51	0°37	n.a.	M29
T 30	20 18 48	3° 0'49	10♍12	8°41	7°23	10°31	6° 8	12°55	26° 1	23°37	11°52	19°17	17°48	0°44	n.a.	T 30
W31	20 22 44	3♌58'52	23♍38	7♌46	8♌37	11♊ 9	6♌21	12♉59	26♎ 2	23♒36	11♈52	19♊11	17♊45	0♊51	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23n37	20n 4	4n26	19n43	0s13	24n22	0n40	18n11	0s13	21n14	0n52	13n14	2s 5	9s40	0n27	14s40	1s 8	10s16	16s20	23n20	23n17	17n58			n.a.
T 2	23 34	16 11	4 57	19 18	0 23	24 23	0 42	18 22	0 12	21 12	0 52	13 16	2 5	9 40	0 27	14 40	1 8	10 16	16 20	23 20	23 16	18 0			n.a.
W 3	23 31	11 28	5 14	18 52	0 34	24 23	0 44	18 33	0 12	21 9	0 52	13 17	2 5	9 40	0 27	14 40	1 8	10 16	16 21	23 20	23 16	18 2			n.a.
T 4	23 28	6 7	5 14	18 27	0 45	24 23	0 46	18 44	0 11	21 6	0 52	13 19	2 5	9 40	0 27	14 41	1 8	10 16	16 21	23 20	23 16	18 5			n.a.
F 5	23 24	0 22	4 56	18 1	0 56	24 21	0 48	18 55	0 10	21 3	0 52	13 21	2 5	9 40	0 27	14 41	1 8	10 16	16 21	23 20	23 16	18 7			n.a.
S 6	23 20	5s32	4 21	17 36	1 7	24 19	0 50	19 5	0 9	21 1	0 52	13 22	2 6	9 40	0 27	14 41	1 8	10 17	16 22	23 20	23 15	18 9			n.a.
S 7	23 15	11 16	3 29	17 11	1 19	24 16	0 52	19 15	0 9	20 58	0 52	13 24	2 6	9 40	0 27	14 42	1 8	10 17	16 22	23 20	23 15	18 12			n.a.
M 8	23 11	16 30	2 23	16 46	1 30	24 13	0 54	19 25	0 8	20 55	0 52	13 25	2 6	9 40	0 27	14 42	1 8	10 17	16 22	23 20	23 15	18 14			n.a.
T 9	23 5	20 48	1 6	16 22	1 42	24 9	0 56	19 35	0 7	20 52	0 52	13 27	2 6	9 40	0 27	14 43	1 8	10 17	16 23	23 20	23 14	18 16			n.a.
W10	22 59	23 46	0s15	15 59	1 54	24 4	0 58	19 45	0 6	20 49	0 52	13 28	2 6	9 40	0 27	14 43	1 8	10 17	16 23	23 20	23 14	18 18			n.a.
T 11	22 53	25 4	1 35	15 36	2 6	23 58	0 59	19 55	0 6	20 47	0 52	13 29	2 6	9 40	0 27	14 43	1 8	10 18	16 23	23 20	23 14	18 21			n.a.
F 12	22 47	24 37	2 48	15 15	2 18	23 51	1 1	20 4	0 5	20 44	0 52	13 31	2 6	9 40	0 27	14 44	1 8	10 18	16 24	23 20	23 14	18 23			n.a.
S 13	22 40	22 31	3 48	14 54	2 30	23 44	1 2	20 14	0 4	20 41	0 52	13 32	2 7	9 40	0 27	14 44	1 8	10 18	16 24	23 20	23 13	18 25			n.a.
S 14	22 32	19 5	4 34	14 35	2 42	23 36	1 4	20 23	0 3	20 38	0 52	13 33	2 7	9 41	0 27	14 45	1 8	10 19	16 24	23 19	23 13	18 27			n.a.
M15	22 24	14 44	5 2	14 17	2 53	23 27	1 6	20 32	0 3	20 35	0 52	13 35	2 7	9 41	0 26	14 45	1 8	10 19	16 25	23 19	23 13	18 30			n.a.
T 16	22 16	9 48	5 13	14 0	3 5	23 18	1 7	20 41	0 2	20 32	0 53	13 36	2 7	9 41	0 26	14 46	1 8	10 19	16 25	23 19	23 13	18 32			n.a.
W17	22 8	4 35	5 8	13 45	3 16	23 8	1 8	20 49	0 1	20 29	0 53	13 37	2 7	9 41	0 26	14 46	1 8	10 19	16 25	23 19	23 12	18 34			n.a.
T 18	21 59	0n40	4 49	13 32	3 27	22 57	1 10	20 58	0 0	20 26	0 53	13 38	2 7	9 41	0 26	14 47	1 8	10 20	16 26	23 18	23 12	18 37			n.a.
F 19	21 49	5 47	4 16	13 21	3 37	22 46	1 11	21 6	0n 1	20 23	0 53	13 40	2 8	9 42	0 26	14 47	1 8	10 20	16 26	23 18	23 12	18 39			n.a.
S 20	21 40	10 36	3 33	13 12	3 47	22 34	1 12	21 14	0 1	20 20	0 53	13 41	2 8	9 42	0 26	14 48	1 9	10 20	16 26	23 18	23 11	18 41			n.a.
S 21	21 30	15 0	2 42	13 5	3 57	22 21	1 14	21 22	0 2	20 17	0 53	13 42	2 8	9 42	0 26	14 48	1 9	10 21	16 26	23 19	23 11	18 43			n.a.
M22	21 19	18 48	1 43	13 1	4 5	22 8	1 15	21 30	0 3	20 14	0 53	13 43	2 8	9 42	0 26	14 49	1 9	10 21	16 27	23 19	23 11	18 45			n.a.
T 23	21 8	21 52	0 41	12 59	4 13	21 53	1 16	21 37	0 4	20 11	0 53	13 44	2 8	9 43	0 26	14 49	1 9	10 21	16 27	23 19	23 11	18 48			n.a.
W24	20 57	24 0	0n24	12 59	4 19	21 39	1 17	21 45	0 4	20 8	0 53	13 45	2 8	9 43	0 26	14 50	1 9	10 22	16 27	23 19	23 10	18 50			n.a.
T 25	20 46	25 2	1 29	13 3	4 24	21 23	1 18	21 52	0 5	20 4	0 53	13 46	2 9	9 43	0 26	14 50	1 9	10 22	16 28	23 19	23 10	18 52			n.a.
F 26	20 34	24 53	2 31	13 9	4 28	21 7	1 19	21 59	0 6	20 1	0 53	13 47	2 9	9 44	0 26	14 51	1 9	10 22	16 28	23 18	23 10	18 54			n.a.
S 27	20 21	23 28	3 26	13 17	4 31	20 51	1 20	22 6	0 7	19 58	0 53	13 48	2 9	9 44	0 26	14 51	1 9	10 23	16 28	23 18	23 9	18 57			n.a.
S 28	20 9	20 50	4 12	13 29	4 31	20 33	1 20	22 13	0 8	19 55	0 53	13 49	2 9	9 44	0 26	14 52	1 9	10 23	16 29	23 18	23 9	18 59			n.a.
M29	19 56	17 7	4 46	13 43	4 30	20 16	1 21	22 19	0 9	19 52	0 53	13 50	2 9	9 45	0 26	14 52	1 9	10 24	16 29	23 17	23 9	19 1			n.a.
T 30	19 42	12 31	5 5	14 0	4 27	19 57	1 22	22 26	0 9	19 48	0 53	13 50	2 9	9 45	0 26	14 53	1 9	10 24	16 29	23 16	23 9	19 3			n.a.
W31	19n29	7n15	5n 8	14n18	4s23	19n38	1n23	22n32	0n10	19n45	0n53	13n51	2s10	9s46	0n26	14s53	1s 9	10s24	16s30	23n16	23n 8	19n 6			n.a.

Julian Day Number = 1677409.5, Delta T = 03h17m18s
Ecliptic obliquity = 23°42'36, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'47, Lahiri = - 5°36'46 Julian Calendar 1 July 121 BCE == Greg. Calendar 28 June 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

AUGUST 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 26 41	4♌56'57	7♎16	6°R49	9♌52	11♊46	6♌35	13♉ 2	26♎ 3	23°R34	11°R52	19°R 6	17♊41	0♊57	n.a.	T 1
F 2	20 30 37	5°55'03	21° 4	5♌53	11° 6	12°24	6°48	13° 5	26° 5	23♒33	11♈51	19♊ 3	17°38	1° 4	n.a.	F 2
S 3	20 34 34	6°53'10	5♏ 2	4°57	12°21	13° 1	7° 1	13° 8	26° 6	23°31	11°51	19°D 2	17°35	1°11	n.a.	S 3
S 4	20 38 31	7°51'19	19° 9	4° 4	13°35	13°39	7°14	13°10	26° 7	23°29	11°51	19° 3	17°32	1°17	n.a.	S 4
M 5	20 42 27	8°49'30	3♐24	3°14	14°50	14°16	7°27	13°13	26° 9	23°28	11°50	19° 4	17°29	1°24	n.a.	M 5
T 6	20 46 24	9°47'42	17°45	2°28	16° 4	14°54	7°40	13°16	26°10	23°26	11°50	19°R 4	17°25	1°30	n.a.	T 6
W 7	20 50 20	10°45'56	2♑ 9	1°49	17°19	15°31	7°53	13°18	26°12	23°25	11°49	19° 4	17°22	1°37	n.a.	W 7
T 8	20 54 17	11°44'12	16°32	1°16	18°34	16° 8	8° 6	13°21	26°13	23°23	11°49	19° 1	17°19	1°44	n.a.	T 8
F 9	20 58 13	12°42'29	0♒49	0°50	19°48	16°45	8°19	13°23	26°15	23°21	11°48	18°56	17°16	1°50	n.a.	F 9
S 10	21 2 10	13°40'49	14°56	0°33	21° 3	17°22	8°32	13°25	26°17	23°20	11°48	18°48	17°13	1°57	n.a.	S 10
S 11	21 6 6	14°39'10	28°47	0°D24	22°17	17°59	8°45	13°27	26°18	23°18	11°47	18°39	17°10	2° 4	n.a.	S 11
M12	21 10 3	15°37'33	12♓18	0°24	23°32	18°35	8°58	13°29	26°20	23°16	11°47	18°30	17° 6	2°10	n.a.	M12
T 13	21 14 0	16°35'58	25°28	0°34	24°47	19°12	9°11	13°31	26°22	23°15	11°46	18°21	17° 3	2°17	n.a.	T 13
W14	21 17 56	17°34'25	8♈16	0°52	26° 1	19°49	9°24	13°33	26°24	23°13	11°46	18°13	17° 0	2°24	n.a.	W14
T 15	21 21 53	18°32'55	20°43	1°20	27°16	20°25	9°37	13°35	26°26	23°12	11°45	18° 7	16°57	2°30	n.a.	T 15
F 16	21 25 49	19°31'26	2♉54	1°57	28°30	21° 2	9°50	13°36	26°28	23°10	11°44	18° 3	16°54	2°37	n.a.	F 16
S 17	21 29 46	20°30'00	14°52	2°42	29°45	21°38	10° 3	13°38	26°30	23° 8	11°44	18° 2	16°50	2°44	n.a.	S 17
S 18	21 33 42	21°28'37	26°43	3°35	1♍ 0	22°14	10°16	13°39	26°32	23° 7	11°43	18°D 2	16°47	2°50	n.a.	S 18
M19	21 37 39	22°27'15	8♊31	4°35	2°14	22°50	10°29	13°40	26°34	23° 5	11°42	18° 2	16°44	2°57	n.a.	M19
T 20	21 41 35	23°25'56	20°23	5°43	3°29	23°26	10°42	13°41	26°36	23° 3	11°42	18°R 2	16°41	3° 4	n.a.	T 20
W21	21 45 32	24°24'40	2♋22	6°57	4°44	24° 2	10°55	13°42	26°38	23° 2	11°41	18° 1	16°38	3°10	n.a.	W21
T 22	21 49 29	25°23'25	14°34	8°17	5°59	24°38	11° 7	13°43	26°40	23° 0	11°40	17°58	16°35	3°17	n.a.	T 22
F 23	21 53 25	26°22'13	27° 3	9°42	7°13	25°14	11°20	13°44	26°43	22°58	11°40	17°53	16°31	3°24	n.a.	F 23
S 24	21 57 22	27°21'03	9♌49	11°12	8°28	25°50	11°33	13°45	26°45	22°57	11°39	17°44	16°28	3°30	n.a.	S 24
S 25	22 1 18	28°19'55	22°55	12°45	9°43	26°25	11°46	13°45	26°47	22°55	11°38	17°34	16°25	3°37	n.a.	S 25
M26	22 5 15	29°18'50	6♍18	14°22	10°57	27° 1	11°59	13°46	26°50	22°53	11°37	17°22	16°22	3°43	n.a.	M26
T 27	22 9 11	0♍17'46	19°57	16° 2	12°12	27°36	12°11	13°46	26°52	22°52	11°36	17°10	16°19	3°50	n.a.	T 27
W28	22 13 8	1°16'44	3♎48	17°44	13°27	28°11	12°24	13°46	26°54	22°50	11°36	17° 0	16°16	3°57	n.a.	W28
T 29	22 17 4	2°15'45	17°48	19°28	14°42	28°46	12°37	13°46	26°57	22°48	11°35	16°51	16°12	4° 3	n.a.	T 29
F 30	22 21 1	3°14'47	1♏53	21°13	15°56	29°21	12°49	13°R46	26°59	22°47	11°34	16°45	16° 9	4°10	n.a.	F 30
S 31	22 24 57	4♍13'51	16♏ 0	23♌ 0	17♍11	29♊56	13♌ 2	13♉46	27♎ 2	22♒45	11♈33	16♊42	16♊ 6	4♊17	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	19n15	1n34	4n53	14n39	4s16	19n19	1n23	22n38	0n11	19n42	0n53	13n52	2s10	9s46	0n26	14s54	1s 9	10s25	16s30	23n15	23n 8	19n 8			n.a.
F 2	19 0	4s16	4 22	15 2	4 7	18 59	1 24	22 44	0 12	19 39	0 53	13 53	2 10	9 47	0 26	14 54	1 9	10 25	16 30	23 15	23 8	19 10			n.a.
S 3	18 46	9 59	3 35	15 25	3 56	18 38	1 24	22 50	0 13	19 35	0 53	13 53	2 10	9 47	0 26	14 55	1 9	10 26	16 30	23 15	23 7	19 12			n.a.
S 4	18 31	15 14	2 34	15 50	3 44	18 17	1 24	22 55	0 14	19 32	0 54	13 54	2 10	9 48	0 26	14 55	1 9	10 26	16 31	23 15	23 7	19 14			n.a.
M 5	18 15	19 42	1 23	16 15	3 30	17 55	1 25	23 1	0 14	19 29	0 54	13 55	2 10	9 48	0 26	14 56	1 9	10 26	16 31	23 15	23 7	19 16			n.a.
T 6	18 0	23 1	0 7	16 40	3 14	17 33	1 25	23 6	0 15	19 25	0 54	13 55	2 11	9 49	0 26	14 57	1 9	10 27	16 31	23 15	23 6	19 19			n.a.
W 7	17 44	24 51	1s10	17 5	2 58	17 10	1 25	23 11	0 16	19 22	0 54	13 56	2 11	9 50	0 26	14 57	1 9	10 27	16 32	23 15	23 6	19 21			n.a.
T 8	17 28	25 1	2 22	17 30	2 40	16 47	1 25	23 16	0 17	19 19	0 54	13 56	2 11	9 50	0 26	14 58	1 9	10 28	16 32	23 15	23 6	19 23			n.a.
F 9	17 11	23 32	3 25	17 53	2 22	16 23	1 25	23 20	0 18	19 15	0 54	13 57	2 11	9 51	0 26	14 58	1 9	10 28	16 32	23 15	23 6	19 25			n.a.
S 10	16 54	20 35	4 14	18 15	2 4	15 59	1 25	23 25	0 19	19 12	0 54	13 57	2 11	9 51	0 26	14 59	1 9	10 29	16 32	23 14	23 5	19 27			n.a.
S 11	16 37	16 30	4 47	18 35	1 45	15 35	1 25	23 29	0 20	19 9	0 54	13 58	2 12	9 52	0 26	14 59	1 9	10 29	16 33	23 13	23 5	19 30			n.a.
M12	16 20	11 41	5 3	18 54	1 26	15 10	1 25	23 33	0 20	19 5	0 54	13 58	2 12	9 53	0 26	15 0	1 9	10 30	16 33	23 12	23 5	19 32			n.a.
T 13	16 2	6 27	5 3	19 10	1 8	14 44	1 25	23 37	0 21	19 2	0 54	13 59	2 12	9 53	0 26	15 0	1 9	10 30	16 33	23 12	23 4	19 34			n.a.
W14	15 44	1 4	4 47	19 23	0 49	14 19	1 24	23 41	0 22	18 58	0 54	13 59	2 12	9 54	0 26	15 1	1 9	10 31	16 34	23 11	23 4	19 36			n.a.
T 15	15 26	4n12	4 18	19 34	0 32	13 52	1 24	23 45	0 23	18 55	0 54	13 59	2 12	9 55	0 26	15 2	1 9	10 31	16 34	23 10	23 4	19 38			n.a.
F 16	15 8	9 13	3 37	19 42	0 15	13 26	1 24	23 48	0 24	18 52	0 54	14 0	2 13	9 56	0 25	15 2	1 9	10 31	16 34	23 10	23 3	19 40			n.a.
S 17	14 49	13 49	2 48	19 47	0n 1	12 59	1 23	23 51	0 25	18 48	0 55	14 0	2 13	9 56	0 25	15 3	1 9	10 32	16 34	23 10	23 3	19 42			n.a.
S 18	14 30	17 50	1 51	19 50	0 16	12 32	1 23	23 55	0 26	18 45	0 55	14 0	2 13	9 57	0 25	15 3	1 9	10 32	16 35	23 10	23 3	19 45			n.a.
M19	14 11	21 8	0 51	19 49	0 30	12 4	1 22	23 58	0 27	18 41	0 55	14 0	2 13	9 58	0 25	15 4	1 9	10 33	16 35	23 10	23 2	19 47			n.a.
T 20	13 52	23 34	0n12	19 44	0 42	11 36	1 21	24 0	0 28	18 38	0 55	14 0	2 13	9 59	0 25	15 4	1 9	10 33	16 35	23 10	23 2	19 49			n.a.
W21	13 32	24 57	1 16	19 37	0 54	11 8	1 21	24 3	0 29	18 34	0 55	14 1	2 14	10 0	0 25	15 5	1 9	10 34	16 35	23 10	23 2	19 51			n.a.
T 22	13 12	25 10	2 16	19 26	1 5	10 39	1 20	24 6	0 30	18 31	0 55	14 1	2 14	10 0	0 25	15 6	1 9	10 34	16 36	23 10	23 1	19 53			n.a.
F 23	12 52	24 7	3 12	19 13	1 14	10 11	1 19	24 8	0 31	18 27	0 55	14 1	2 14	10 1	0 25	15 6	1 9	10 35	16 36	23 9	23 1	19 55			n.a.
S 24	12 32	21 49	3 59	18 56	1 22	9 41	1 18	24 10	0 31	18 24	0 55	14 1	2 14	10 2	0 25	15 7	1 9	10 35	16 36	23 8	23 1	19 57			n.a.
S 25	12 11	18 21	4 35	18 36	1 30	9 12	1 17	24 12	0 32	18 20	0 55	14 1	2 14	10 3	0 25	15 7	1 9	10 36	16 36	23 7	23 1	19 59			n.a.
M26	11 51	13 52	4 56	18 14	1 36	8 42	1 16	24 14	0 33	18 17	0 55	14 1	2 14	10 4	0 25	15 8	1 9	10 36	16 36	23 6	23 0	20 2			n.a.
T 27	11 30	8 38	5 1	17 49	1 41	8 13	1 15	24 16	0 34	18 13	0 56	14 1	2 15	10 5	0 25	15 8	1 9	10 37	16 37	23 5	23 0	20 4			n.a.
W28	11 9	2 53	4 49	17 21	1 45	7 43	1 14	24 17	0 35	18 10	0 56	14 0	2 15	10 6	0 25	15 9	1 9	10 37	16 37	23 4	23 0	20 6			n.a.
T 29	10 47	3s 4	4 19	16 52	1 48	7 12	1 12	24 19	0 36	18 6	0 56	14 0	2 15	10 7	0 25	15 9	1 9	10 38	16 37	23 3	22 59	20 8			n.a.
F 30	10 26	8 55	3 34	16 20	1 50	6 42	1 11	24 20	0 37	18 3	0 56	14 0	2 15	10 8	0 25	15 10	1 9	10 38	16 37	23 3	22 59	20 10			n.a.
S 31	10n 4	14s21	2n35	15n46	1n52	6n11	1n10	24n21	0n38	17n59	0n56	14n 0	2s15	10s 8	0n25	15s11	1s 9	10s39	16s37	23n 2	22n59	20n12			n.a.

Julian Day Number = 1677440.5, Delta T = 03h17m17s
Ecliptic obliquity = 23°42'37, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'43, Lahiri = - 5°36'42 Julian Calendar 1 Aug. 121 BCE == Greg. Calendar 29 July 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

SEPTEMBER 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 28 54	5♍12'57	0♐ 7	24♌47	18♍26	0♋31	13♌15	13°R46	27♎ 5	22°R43	11°R32	16°D41	16♊ 3	4♊23	n.a.	S 1
M 2	22 32 51	6°12'05	14°13	26°34	19°41	1° 6	13°27	13♉46	27° 7	22♒42	11♈31	16°R41	16° 0	4°30	n.a.	M 2
T 3	22 36 47	7°11'15	28°17	28°22	20°55	1°40	13°40	13°45	27°10	22°40	11°30	16♊41	15°56	4°37	n.a.	T 3
W 4	22 40 44	8°10'26	12♑19	0♍10	22°10	2°15	13°52	13°45	27°13	22°39	11°30	16°39	15°53	4°43	n.a.	W 4
T 5	22 44 40	9° 9'40	26°17	1°58	23°25	2°49	14° 4	13°44	27°15	22°37	11°29	16°35	15°50	4°50	n.a.	T 5
F 6	22 48 37	10° 8'55	10♒ 8	3°46	24°40	3°23	14°17	13°43	27°18	22°36	11°28	16°27	15°47	4°57	n.a.	F 6
S 7	22 52 33	11° 8'13	23°50	5°33	25°54	3°57	14°29	13°43	27°21	22°34	11°27	16°17	15°44	5° 3	n.a.	S 7
S 8	22 56 30	12° 7'32	7♓20	7°20	27° 9	4°31	14°41	13°42	27°24	22°32	11°26	16° 5	15°41	5°10	n.a.	S 8
M 9	23 0 26	13° 6'53	20°36	9° 6	28°24	5° 5	14°54	13°40	27°27	22°31	11°25	15°52	15°37	5°17	n.a.	M 9
T 10	23 4 23	14° 6'17	3♈34	10°52	29°38	5°39	15° 6	13°39	27°30	22°29	11°24	15°39	15°34	5°23	n.a.	T 10
W11	23 8 20	15° 5'42	16°14	12°37	0♎53	6°12	15°18	13°38	27°33	22°28	11°23	15°28	15°31	5°30	n.a.	W11
T 12	23 12 16	16° 5'11	28°38	14°22	2° 8	6°46	15°30	13°37	27°36	22°26	11°22	15°19	15°28	5°37	n.a.	T 12
F 13	23 16 13	17° 4'41	10♉46	16° 5	3°23	7°19	15°42	13°35	27°39	22°25	11°21	15°12	15°25	5°43	n.a.	F 13
S 14	23 20 9	18° 4'14	22°43	17°49	4°37	7°52	15°54	13°33	27°42	22°23	11°20	15° 9	15°22	5°50	n.a.	S 14
S 15	23 24 6	19° 3'49	4♊33	19°31	5°52	8°25	16° 6	13°32	27°45	22°22	11°19	15° 7	15°18	5°56	n.a.	S 15
M16	23 28 2	20° 3'27	16°20	21°13	7° 7	8°58	16°18	13°30	27°48	22°21	11°18	15° 7	15°15	6° 3	n.a.	M16
T 17	23 31 59	21° 3'07	28°11	22°54	8°21	9°31	16°30	13°28	27°51	22°19	11°17	15° 7	15°12	6°10	n.a.	T 17
W18	23 35 55	22° 2'49	10♋11	24°34	9°36	10° 4	16°42	13°26	27°54	22°18	11°16	15° 6	15° 9	6°16	n.a.	W18
T 19	23 39 52	23° 2'34	22°25	26°14	10°51	10°36	16°53	13°24	27°58	22°16	11°15	15° 3	15° 6	6°23	n.a.	T 19
F 20	23 43 49	24° 2'21	4♌58	27°53	12° 6	11° 9	17° 5	13°21	28° 1	22°15	11°13	14°57	15° 2	6°30	n.a.	F 20
S 21	23 47 45	25° 2'10	17°54	29°32	13°20	11°41	17°17	13°19	28° 4	22°14	11°12	14°49	14°59	6°36	n.a.	S 21
S 22	23 51 42	26° 2'01	1♍12	1♎10	14°35	12°13	17°28	13°17	28° 7	22°12	11°11	14°38	14°56	6°43	n.a.	S 22
M23	23 55 38	27° 1'55	14°54	2°47	15°50	12°45	17°40	13°14	28°11	22°11	11°10	14°26	14°53	6°50	n.a.	M23
T 24	23 59 35	28° 1'51	28°57	4°24	17° 5	13°17	17°51	13°11	28°14	22°10	11° 9	14°14	14°50	6°56	n.a.	T 24
W25	0 3 31	29° 1'49	13♎14	6° 0	18°19	13°48	18° 2	13° 9	28°17	22° 8	11° 8	14° 3	14°47	7° 3	n.a.	W25
T 26	0 7 28	0♎ 1'48	27°41	7°36	19°34	14°20	18°14	13° 6	28°21	22° 7	11° 7	13°54	14°43	7°10	n.a.	T 26
F 27	0 11 24	1° 1'50	12♏11	9°11	20°49	14°51	18°25	13° 3	28°24	22° 6	11° 6	13°48	14°40	7°16	n.a.	F 27
S 28	0 15 21	2° 1'53	26°38	10°45	22° 3	15°22	18°36	13° 0	28°27	22° 5	11° 5	13°45	14°37	7°23	n.a.	S 28
S 29	0 19 17	3° 1'58	10♐58	12°20	23°18	15°53	18°47	12°57	28°31	22° 4	11° 4	13°D44	14°34	7°29	n.a.	S 29
M30	0 23 14	4♎ 2'05	25♐ 9	13♎53	24♎33	16♋24	18♌58	12♉53	28♎34	22♒ 3	11♈ 2	13♊44	14♊31	7♊36	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n42	19s 0	1n27	15n11	1n53	5n40	1n 8	24n22	0n39	17n56	0n56	14n 0	2s16	10s 9	0n25	15s11	1s 9	10s39	16s38	23n 2	22n58	20n14		n.a.
M 2	9 20	22 33	0 13	14 34	1 53	5 9	1 7	24 23	0 40	17 52	0 56	13 59	2 16	10 10	0 25	15 12	1 9	10 40	16 38	23 2	22 58	20 16		n.a.
T 3	8 58	24 43	1s 1	13 55	1 52	4 38	1 5	24 23	0 41	17 49	0 56	13 59	2 16	10 11	0 25	15 12	1 9	10 40	16 38	23 2	22 58	20 18		n.a.
W 4	8 36	25 19	2 11	13 16	1 51	4 7	1 4	24 24	0 42	17 45	0 56	13 59	2 16	10 12	0 25	15 13	1 9	10 41	16 38	23 2	22 57	20 20		n.a.
T 5	8 13	24 17	3 13	12 35	1 49	3 36	1 2	24 24	0 43	17 42	0 57	13 58	2 16	10 13	0 25	15 13	1 9	10 41	16 38	23 1	22 57	20 22		n.a.
F 6	7 51	21 48	4 3	11 53	1 46	3 4	1 1	24 24	0 44	17 38	0 57	13 58	2 17	10 15	0 25	15 14	1 9	10 42	16 38	23 1	22 57	20 25		n.a.
S 7	7 28	18 5	4 38	11 11	1 43	2 33	0 59	24 24	0 45	17 35	0 57	13 58	2 17	10 16	0 25	15 14	1 9	10 42	16 39	23 0	22 56	20 27		n.a.
S 8	7 5	13 29	4 57	10 28	1 40	2 1	0 57	24 24	0 46	17 31	0 57	13 57	2 17	10 17	0 25	15 15	1 9	10 43	16 39	22 58	22 56	20 29		n.a.
M 9	6 42	8 20	4 59	9 44	1 36	1 29	0 55	24 24	0 47	17 28	0 57	13 57	2 17	10 18	0 25	15 15	1 9	10 43	16 39	22 57	22 55	20 31		n.a.
T 10	6 19	2 56	4 46	9 0	1 32	0 58	0 53	24 24	0 48	17 24	0 57	13 56	2 17	10 19	0 25	15 16	1 9	10 44	16 39	22 56	22 55	20 33		n.a.
W11	5 56	2n29	4 19	8 15	1 28	0 26	0 51	24 23	0 49	17 21	0 57	13 56	2 17	10 20	0 25	15 16	1 9	10 45	16 39	22 54	22 55	20 35		n.a.
T 12	5 33	7 42	3 40	7 30	1 23	0s 6	0 49	24 23	0 51	17 17	0 58	13 55	2 18	10 21	0 25	15 17	1 9	10 45	16 39	22 53	22 54	20 37		n.a.
F 13	5 10	12 31	2 51	6 45	1 18	0 38	0 47	24 22	0 52	17 14	0 58	13 54	2 18	10 22	0 25	15 17	1 9	10 46	16 40	22 53	22 54	20 39		n.a.
S 14	4 46	16 48	1 56	5 59	1 13	1 10	0 45	24 21	0 53	17 10	0 58	13 54	2 18	10 23	0 25	15 18	1 9	10 46	16 40	22 52	22 54	20 41		n.a.
S 15	4 23	20 23	0 56	5 13	1 7	1 42	0 43	24 20	0 54	17 7	0 58	13 53	2 18	10 24	0 25	15 18	1 9	10 47	16 40	22 52	22 53	20 43		n.a.
M16	3 59	23 6	0n 6	4 28	1 2	2 14	0 41	24 19	0 55	17 3	0 58	13 52	2 18	10 26	0 25	15 19	1 9	10 47	16 40	22 52	22 53	20 45		n.a.
T 17	3 35	24 51	1 9	3 42	0 56	2 45	0 39	24 18	0 56	17 0	0 58	13 52	2 18	10 27	0 25	15 19	1 9	10 48	16 40	22 52	22 53	20 47		n.a.
W18	3 11	25 27	2 9	2 56	0 50	3 17	0 37	24 16	0 57	16 56	0 58	13 51	2 19	10 28	0 25	15 19	1 9	10 48	16 40	22 52	22 52	20 49		n.a.
T 19	2 48	24 51	3 4	2 11	0 44	3 49	0 34	24 15	0 58	16 53	0 59	13 50	2 19	10 29	0 25	15 20	1 9	10 49	16 40	22 52	22 52	20 51		n.a.
F 20	2 24	22 59	3 52	1 25	0 37	4 20	0 32	24 13	0 59	16 49	0 59	13 49	2 19	10 30	0 25	15 20	1 9	10 49	16 40	22 51	22 52	20 53		n.a.
S 21	2 0	19 54	4 29	0 40	0 31	4 52	0 30	24 12	1 1	16 46	0 59	13 48	2 19	10 31	0 25	15 21	1 9	10 50	16 40	22 50	22 51	20 55		n.a.
S 22	1 36	15 43	4 53	0s 6	0 24	5 23	0 27	24 10	1 2	16 43	0 59	13 47	2 19	10 33	0 25	15 21	1 9	10 50	16 40	22 49	22 51	20 57		n.a.
M23	1 12	10 38	5 1	0 51	0 18	5 55	0 25	24 8	1 3	16 39	0 59	13 47	2 19	10 34	0 25	15 22	1 9	10 50	16 40	22 47	22 51	20 59		n.a.
T 24	0 48	4 52	4 51	1 36	0 11	6 26	0 23	24 6	1 4	16 36	0 59	13 46	2 19	10 35	0 25	15 22	1 9	10 51	16 41	22 46	22 50	21 1		n.a.
W25	0 23	1s15	4 23	2 20	0 5	6 57	0 20	24 4	1 5	16 32	1 0	13 45	2 20	10 36	0 25	15 22	1 9	10 51	16 41	22 45	22 50	21 3		n.a.
T 26	0s 1	7 22	3 38	3 5	0s 2	7 28	0 18	24 2	1 6	16 29	1 0	13 44	2 20	10 37	0 25	15 23	1 9	10 52	16 41	22 44	22 49	21 5		n.a.
F 27	0 25	13 9	2 39	3 49	0 9	7 59	0 15	23 59	1 8	16 26	1 0	13 43	2 20	10 39	0 25	15 23	1 9	10 52	16 41	22 43	22 49	21 7		n.a.
S 28	0 49	18 10	1 29	4 32	0 15	8 29	0 13	23 57	1 9	16 22	1 0	13 42	2 20	10 40	0 24	15 24	1 9	10 53	16 41	22 42	22 49	21 9		n.a.
S 29	1 13	22 6	0 15	5 16	0 22	9 0	0 10	23 55	1 10	16 19	1 0	13 41	2 20	10 41	0 24	15 24	1 9	10 53	16 41	22 42	22 48	21 11		n.a.
M30	1s37	24s38	1s 0	5s59	0s29	9s30	0n 8	23n52	1n11	16n16	1n 0	13n40	2s20	10s42	0n24	15s24	1s 9	10s54	16s41	22n42	22n48	21n13		n.a.

Julian Day Number = 1677471.5, Delta T = 03h17m16s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'38, Lahiri = - 5°36'38 Julian Calendar 1 Sept. 121 BCE == Greg. Calendar 29 Aug. 121 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

OCTOBER 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 27 11	5♎ 2'14	9♉10	15♎26	25♎47	16♋54	19♌ 9	12°R50	28♎38	22°R 1	11°R 1	13°R44	14♊27	7♊43	n.a.	T 1
W 2	0 31 7	6° 2'24	23° 0	16°59	27° 2	17°25	19°20	12♉47	28°41	22♒ 0	11♈ 0	13♊43	14°24	7°49	n.a.	W 2
T 3	0 35 4	7° 2'36	6♒39	18°31	28°17	17°55	19°30	12°43	28°45	21°59	10°59	13°39	14°21	7°56	n.a.	T 3
F 4	0 39 0	8° 2'49	20° 7	20° 3	29°31	18°25	19°41	12°40	28°48	21°58	10°58	13°33	14°18	8° 3	n.a.	F 4
S 5	0 42 57	9° 3'04	3♓25	21°34	0♏46	18°55	19°51	12°36	28°52	21°57	10°57	13°24	14°15	8° 9	n.a.	S 5
S 6	0 46 53	10° 3'21	16°31	23° 5	2° 1	19°25	20° 2	12°32	28°56	21°56	10°56	13°14	14°12	8°16	n.a.	S 6
M 7	0 50 50	11° 3'39	29°25	24°35	3°15	19°54	20°12	12°28	28°59	21°55	10°54	13° 2	14° 8	8°23	n.a.	M 7
T 8	0 54 46	12° 3'59	12♈ 6	26° 5	4°30	20°23	20°22	12°25	29° 3	21°54	10°53	12°51	14° 5	8°29	n.a.	T 8
W 9	0 58 43	13° 4'21	24°33	27°35	5°44	20°52	20°33	12°21	29° 6	21°53	10°52	12°41	14° 2	8°36	n.a.	W 9
T 10	1 2 40	14° 4'45	6♉47	29° 4	6°59	21°21	20°43	12°17	29°10	21°53	10°51	12°33	13°59	8°43	n.a.	T 10
F 11	1 6 36	15° 5'10	18°50	0♏33	8°13	21°50	20°53	12°13	29°14	21°52	10°50	12°27	13°56	8°49	n.a.	F 11
S 12	1 10 33	16° 5'38	0♊44	2° 1	9°28	22°18	21° 3	12° 8	29°17	21°51	10°49	12°24	13°53	8°56	n.a.	S 12
S 13	1 14 29	17° 6'07	12°32	3°28	10°43	22°47	21°12	12° 4	29°21	21°50	10°48	12°D23	13°49	9° 3	n.a.	S 13
M14	1 18 26	18° 6'39	24°18	4°55	11°57	23°15	21°22	12° 0	29°25	21°49	10°47	12°24	13°46	9° 9	n.a.	M14
T 15	1 22 22	19° 7'12	6♋ 8	6°22	13°12	23°42	21°32	11°56	29°28	21°49	10°45	12°25	13°43	9°16	n.a.	T 15
W16	1 26 19	20° 7'47	18° 6	7°48	14°26	24°10	21°41	11°51	29°32	21°48	10°44	12°R26	13°40	9°22	n.a.	W16
T 17	1 30 15	21° 8'24	0♌18	9°13	15°41	24°37	21°51	11°47	29°36	21°47	10°43	12°25	13°37	9°29	n.a.	T 17
F 18	1 34 12	22° 9'03	12°49	10°38	16°55	25° 4	22° 0	11°42	29°39	21°47	10°42	12°23	13°33	9°36	n.a.	F 18
S 19	1 38 9	23° 9'44	25°44	12° 1	18°10	25°31	22° 9	11°38	29°43	21°46	10°41	12°19	13°30	9°42	n.a.	S 19
S 20	1 42 5	24°10'26	9♍ 5	13°24	19°24	25°58	22°18	11°33	29°47	21°45	10°40	12°12	13°27	9°49	n.a.	S 20
M21	1 46 2	25°11'10	22°53	14°46	20°39	26°24	22°27	11°28	29°50	21°45	10°39	12° 5	13°24	9°56	n.a.	M21
T 22	1 49 58	26°11'56	7♎ 7	16° 7	21°53	26°50	22°36	11°24	29°54	21°44	10°38	11°57	13°21	10° 2	n.a.	T 22
W23	1 53 55	27°12'43	21°42	17°26	23° 8	27°16	22°44	11°19	29°58	21°44	10°37	11°50	13°18	10° 9	n.a.	W23
T 24	1 57 51	28°13'32	6♏31	18°44	24°22	27°42	22°53	11°14	0♏ 2	21°43	10°36	11°44	13°14	10°16	n.a.	T 24
F 25	2 1 48	29°14'22	21°26	20° 0	25°37	28° 7	23° 1	11° 9	0° 5	21°43	10°34	11°40	13°11	10°22	n.a.	F 25
S 26	2 5 44	0♏15'14	6♐19	21°15	26°51	28°32	23°10	11° 5	0° 9	21°43	10°33	11°D38	13° 8	10°29	n.a.	S 26
S 27	2 9 41	1°16'07	21° 2	22°27	28° 5	28°56	23°18	11° 0	0°13	21°42	10°32	11°39	13° 5	10°36	n.a.	S 27
M28	2 13 38	2°17'00	5♑30	23°37	29°20	29°21	23°26	10°55	0°16	21°42	10°31	11°40	13° 2	10°42	n.a.	M28
T 29	2 17 34	3°17'55	19°41	24°44	0♐34	29°45	23°34	10°50	0°20	21°42	10°30	11°41	12°59	10°49	n.a.	T 29
W30	2 21 31	4°18'51	3♒33	25°47	1°49	0♌ 9	23°42	10°45	0°24	21°42	10°29	11°R42	12°55	10°56	n.a.	W30
T 31	2 25 27	5♏19'47	17♒ 6	26♏47	3♐ 3	0♌32	23♌50	10♉40	0♏28	21♒41	10♈28	11♊41	12♊52	11♊ 2	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2s 1	25s34	2s11	6s41	0s35	10s 0	0n 5	23n49	1n12	16n12	1n 1	13n38	2s20	10s44	0n24	15s25	1s 9	10s54	16s41	22n42	22n48	21n15		n.a.
W 2	2 26	24 54	3 13	7 23	0 42	10 30	0 2	23 47	1 14	16 9	1 1	13 37	2 20	10 45	0 24	15 25	1 9	10 55	16 41	22 42	22 47	21 17		n.a.
T 3	2 50	22 44	4 3	8 5	0 49	10 59	0s 0	23 44	1 15	16 6	1 1	13 36	2 20	10 46	0 24	15 25	1 9	10 55	16 41	22 42	22 47	21 19		n.a.
F 4	3 14	19 20	4 39	8 46	0 55	11 28	0 3	23 41	1 16	16 3	1 1	13 35	2 21	10 48	0 24	15 26	1 9	10 56	16 41	22 41	22 46	21 21		n.a.
S 5	3 38	15 0	4 59	9 27	1 2	11 57	0 5	23 38	1 17	16 0	1 1	13 34	2 21	10 49	0 24	15 26	1 9	10 56	16 41	22 40	22 46	21 23		n.a.
S 6	4 2	10 1	5 3	10 7	1 8	12 26	0 8	23 35	1 19	15 56	1 1	13 33	2 21	10 50	0 24	15 26	1 9	10 56	16 41	22 39	22 46	21 24		n.a.
M 7	4 25	4 41	4 51	10 47	1 14	12 54	0 11	23 32	1 20	15 53	1 2	13 31	2 21	10 51	0 24	15 27	1 9	10 57	16 41	22 37	22 45	21 26		n.a.
T 8	4 49	0n46	4 25	11 26	1 20	13 22	0 13	23 29	1 21	15 50	1 2	13 30	2 21	10 53	0 24	15 27	1 9	10 57	16 41	22 36	22 45	21 28		n.a.
W 9	5 13	6 6	3 47	12 4	1 26	13 50	0 16	23 26	1 23	15 47	1 2	13 29	2 21	10 54	0 24	15 27	1 9	10 58	16 41	22 34	22 45	21 30		n.a.
T 10	5 37	11 7	2 59	12 42	1 32	14 17	0 19	23 23	1 24	15 44	1 2	13 27	2 21	10 55	0 24	15 27	1 9	10 58	16 41	22 33	22 44	21 32		n.a.
F 11	6 0	15 39	2 3	13 19	1 38	14 45	0 21	23 19	1 25	15 41	1 2	13 26	2 21	10 57	0 24	15 28	1 9	10 58	16 41	22 33	22 44	21 34		n.a.
S 12	6 24	19 31	1 2	13 55	1 43	15 11	0 24	23 16	1 27	15 38	1 3	13 25	2 21	10 58	0 24	15 28	1 9	10 59	16 41	22 32	22 43	21 36		n.a.
S 13	6 47	22 34	0n 1	14 31	1 48	15 38	0 27	23 13	1 28	15 35	1 3	13 23	2 21	10 59	0 24	15 28	1 9	10 59	16 41	22 32	22 43	21 38		n.a.
M14	7 11	24 39	1 4	15 5	1 54	16 3	0 29	23 9	1 30	15 32	1 3	13 22	2 21	11 1	0 24	15 28	1 9	11 0	16 41	22 32	22 43	21 40		n.a.
T 15	7 34	25 38	2 4	15 39	1 58	16 29	0 32	23 6	1 31	15 29	1 3	13 21	2 21	11 2	0 24	15 29	1 9	11 0	16 40	22 32	22 42	21 42		n.a.
W16	7 57	25 27	3 0	16 12	2 3	16 54	0 35	23 2	1 32	15 26	1 3	13 19	2 21	11 3	0 24	15 29	1 9	11 0	16 40	22 33	22 42	21 44		n.a.
T 17	8 20	24 3	3 49	16 44	2 8	17 19	0 37	22 59	1 34	15 23	1 4	13 18	2 21	11 5	0 24	15 29	1 9	11 1	16 40	22 32	22 42	21 45		n.a.
F 18	8 43	21 26	4 28	17 16	2 12	17 43	0 40	22 55	1 35	15 20	1 4	13 17	2 21	11 6	0 24	15 29	1 9	11 1	16 40	22 32	22 41	21 47		n.a.
S 19	9 6	17 43	4 56	17 46	2 15	18 7	0 42	22 52	1 37	15 18	1 4	13 15	2 22	11 7	0 24	15 29	1 9	11 1	16 40	22 32	22 41	21 49		n.a.
S 20	9 29	13 0	5 8	18 15	2 19	18 30	0 45	22 48	1 38	15 15	1 4	13 14	2 22	11 9	0 24	15 30	1 9	11 2	16 40	22 31	22 40	21 51		n.a.
M21	9 51	7 29	5 3	18 43	2 22	18 53	0 47	22 44	1 40	15 12	1 5	13 12	2 22	11 10	0 24	15 30	1 9	11 2	16 40	22 30	22 40	21 53		n.a.
T 22	10 14	1 25	4 39	19 9	2 25	19 15	0 50	22 41	1 41	15 9	1 5	13 11	2 22	11 11	0 24	15 30	1 8	11 2	16 40	22 29	22 40	21 55		n.a.
W23	10 36	4s53	3 57	19 35	2 27	19 37	0 53	22 37	1 43	15 7	1 5	13 9	2 22	11 13	0 24	15 30	1 8	11 3	16 40	22 28	22 39	21 57		n.a.
T 24	10 58	11 2	2 59	19 59	2 29	19 58	0 55	22 34	1 44	15 4	1 5	13 8	2 22	11 14	0 24	15 30	1 8	11 3	16 40	22 27	22 39	21 58		n.a.
F 25	11 20	16 36	1 48	20 21	2 30	20 19	0 57	22 30	1 46	15 2	1 5	13 6	2 22	11 15	0 24	15 30	1 8	11 3	16 39	22 26	22 38	22 0		n.a.
S 26	11 41	21 8	0 29	20 42	2 31	20 39	1 0	22 26	1 47	14 59	1 6	13 5	2 22	11 17	0 24	15 30	1 8	11 4	16 39	22 26	22 38	22 2		n.a.
S 27	12 3	24 15	0s51	21 1	2 31	20 58	1 2	22 23	1 49	14 56	1 6	13 3	2 22	11 18	0 24	15 30	1 8	11 4	16 39	22 26	22 38	22 4		n.a.
M28	12 24	25 42	2 6	21 19	2 31	21 17	1 5	22 19	1 50	14 54	1 6	13 2	2 22	11 19	0 24	15 30	1 8	11 4	16 39	22 26	22 37	22 6		n.a.
T 29	12 45	25 25	3 12	21 35	2 30	21 36	1 7	22 16	1 52	14 52	1 6	13 0	2 21	11 21	0 24	15 31	1 8	11 4	16 39	22 27	22 37	22 8		n.a.
W30	13 6	23 33	4 6	21 49	2 28	21 53	1 9	22 12	1 54	14 49	1 7	12 59	2 21	11 22	0 24	15 31	1 8	11 5	16 39	22 27	22 36	22 9		n.a.
T 31	13s27	20s23	4s44	22s 0	2s25	22s11	1s12	22n 8	1n55	14n47	1n 7	12n57	2s21	11s23	0n24	15s31	1s 8	11s 5	16s39	22n27	22n36	22n11		n.a.

Julian Day Number = 1677501.5, Delta T = 03h17m15s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'34, Lahiri = - 5°36'34 Julian Calendar 1 Oct. 121 BCE == Greg. Calendar 28 Sept. 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

NOVEMBER 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 29 24	6♏20'44	0♓22	27♏43	4♐17	0♌55	23♌57	10°R35	0♏31	21°R41	10°R27	11°R39	12♊49	11♊ 9	n.a.	F 1
S 2	2 33 20	7°21'43	13°22	28°34	5°32	1°18	24° 5	10♉30	0°35	21♒41	10♈26	11♊35	12°46	11°15	n.a.	S 2
S 3	2 37 17	8°22'41	26° 9	29°20	6°46	1°40	24°12	10°25	0°39	21°41	10°25	11°30	12°43	11°22	n.a.	S 3
M 4	2 41 13	9°23'41	8♈42	29°59	8° 0	2° 2	24°19	10°20	0°42	21°41	10°24	11°24	12°39	11°29	n.a.	M 4
T 5	2 45 10	10°24'42	21° 5	0♐31	9°14	2°24	24°26	10°15	0°46	21°41	10°23	11°18	12°36	11°35	n.a.	T 5
W 6	2 49 7	11°25'44	3♉17	0°56	10°29	2°46	24°33	10°10	0°50	21°D41	10°22	11°13	12°33	11°42	n.a.	W 6
T 7	2 53 3	12°26'46	15°20	1°12	11°43	3° 7	24°40	10° 5	0°54	21°41	10°21	11° 9	12°30	11°49	n.a.	T 7
F 8	2 57 0	13°27'50	27°15	1°R18	12°57	3°27	24°46	10° 0	0°57	21°41	10°20	11° 7	12°27	11°55	n.a.	F 8
S 9	3 0 56	14°28'54	9♊ 5	1°14	14°11	3°48	24°52	9°55	1° 1	21°41	10°19	11°D 6	12°24	12° 2	n.a.	S 9
S 10	3 4 53	15°30'00	20°52	0°59	15°25	4° 7	24°59	9°51	1° 4	21°41	10°19	11° 6	12°20	12° 9	n.a.	S 10
M11	3 8 49	16°31'06	2♋39	0°33	16°39	4°27	25° 5	9°46	1° 8	21°41	10°18	11° 7	12°17	12°15	n.a.	M11
T 12	3 12 46	17°32'14	14°29	29♏56	17°54	4°46	25°11	9°41	1°12	21°41	10°17	11° 9	12°14	12°22	n.a.	T 12
W13	3 16 42	18°33'22	26°27	29° 7	19° 8	5° 5	25°17	9°36	1°15	21°42	10°16	11°11	12°11	12°29	n.a.	W13
T 14	3 20 39	19°34'31	8♌38	28° 8	20°22	5°23	25°22	9°31	1°19	21°42	10°15	11°12	12° 8	12°35	n.a.	T 14
F 15	3 24 36	20°35'42	21° 5	26°59	21°36	5°41	25°28	9°26	1°23	21°42	10°14	11°R13	12° 5	12°42	n.a.	F 15
S 16	3 28 32	21°36'53	3♍53	25°44	22°50	5°58	25°33	9°21	1°26	21°43	10°13	11°12	12° 1	12°48	n.a.	S 16
S 17	3 32 29	22°38'05	17° 7	24°23	24° 4	6°15	25°38	9°16	1°30	21°43	10°13	11°11	11°58	12°55	n.a.	S 17
M18	3 36 25	23°39'18	0♎49	23° 1	25°18	6°32	25°43	9°12	1°33	21°43	10°12	11° 9	11°55	13° 2	n.a.	M18
T 19	3 40 22	24°40'31	14°58	21°39	26°32	6°48	25°48	9° 7	1°37	21°44	10°11	11° 6	11°52	13° 8	n.a.	T 19
W20	3 44 18	25°41'45	29°33	20°20	27°46	7° 3	25°53	9° 2	1°40	21°44	10°10	11° 4	11°49	13°15	n.a.	W20
T 21	3 48 15	26°43'00	14♏29	19° 7	28°59	7°18	25°57	8°58	1°44	21°45	10°10	11° 3	11°45	13°22	n.a.	T 21
F 22	3 52 11	27°44'16	29°37	18° 1	0♑13	7°33	26° 2	8°53	1°47	21°45	10° 9	11° 2	11°42	13°28	n.a.	F 22
S 23	3 56 8	28°45'31	14♐49	17° 5	1°27	7°47	26° 6	8°49	1°51	21°46	10° 8	11°D 1	11°39	13°35	n.a.	S 23
S 24	4 0 5	29°46'47	29°54	16°20	2°41	8° 0	26°10	8°44	1°54	21°47	10° 7	11° 2	11°36	13°42	n.a.	S 24
M25	4 4 1	0♐48'04	14♑44	15°44	3°55	8°13	26°14	8°40	1°57	21°47	10° 7	11° 3	11°33	13°48	n.a.	M25
T 26	4 7 58	1°49'20	29°14	15°20	5° 8	8°25	26°17	8°35	2° 1	21°48	10° 6	11° 4	11°30	13°55	n.a.	T 26
W27	4 11 54	2°50'36	13♒19	15° 6	6°22	8°37	26°21	8°31	2° 4	21°49	10° 5	11° 4	11°26	14° 2	n.a.	W27
T 28	4 15 51	3°51'52	26°59	15°D 2	7°36	8°48	26°24	8°27	2° 7	21°50	10° 5	11° 5	11°23	14° 8	n.a.	T 28
F 29	4 19 47	4°53'07	10♓15	15° 7	8°49	8°59	26°27	8°23	2°11	21°50	10° 4	11°R 5	11°20	14°15	n.a.	F 29
S 30	4 23 44	5♐54'22	23♓10	15♏21	10♑ 3	9♌ 9	26♌30	8♉18	2♏14	21♒51	10♈ 4	11♊ 4	11♊17	14♊22	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s47	16s13	5s 6	22s10	2s21	22s27	1s14	22n 5	1n57	14n45	1n 7	12n56	2s21	11s24	0n24	15s31	1s 8	11s 5	16s38	22n26	22n36	22n13		n.a.
S 2	14 7	11 23	5 12	22 17	2 16	22 43	1 16	22 1	1 59	14 42	1 7	12 54	2 21	11 26	0 24	15 31	1 8	11 5	16 38	22 26	22 35	22 15		n.a.
S 3	14 27	6 9	5 2	22 21	2 10	22 58	1 18	21 58	2 0	14 40	1 8	12 53	2 21	11 27	0 24	15 31	1 8	11 6	16 38	22 25	22 35	22 17		n.a.
M 4	14 47	0 45	4 37	22 23	2 4	23 13	1 20	21 55	2 2	14 38	1 8	12 51	2 21	11 28	0 24	15 31	1 8	11 6	16 38	22 24	22 34	22 19		n.a.
T 5	15 7	4n36	4 0	22 22	1 55	23 27	1 22	21 51	2 4	14 36	1 8	12 50	2 21	11 30	0 24	15 31	1 8	11 6	16 38	22 23	22 34	22 20		n.a.
W 6	15 26	9 44	3 13	22 18	1 46	23 40	1 24	21 48	2 6	14 34	1 8	12 48	2 21	11 31	0 24	15 31	1 8	11 6	16 37	22 23	22 33	22 22		n.a.
T 7	15 45	14 26	2 17	22 10	1 35	23 52	1 26	21 45	2 7	14 32	1 9	12 47	2 21	11 32	0 24	15 31	1 8	11 6	16 37	22 22	22 33	22 24		n.a.
F 8	16 3	18 33	1 15	22 0	1 22	24 4	1 28	21 42	2 9	14 30	1 9	12 45	2 21	11 34	0 24	15 31	1 8	11 7	16 37	22 22	22 33	22 26		n.a.
S 9	16 22	21 53	0 11	21 45	1 8	24 15	1 30	21 39	2 11	14 28	1 9	12 44	2 21	11 35	0 24	15 30	1 8	11 7	16 37	22 22	22 32	22 27		n.a.
S 10	16 40	24 17	0n54	21 27	0 53	24 26	1 32	21 35	2 13	14 26	1 9	12 42	2 21	11 36	0 24	15 30	1 8	11 7	16 37	22 22	22 32	22 29		n.a.
M11	16 58	25 37	1 56	21 5	0 36	24 35	1 34	21 33	2 15	14 24	1 10	12 41	2 21	11 37	0 24	15 30	1 8	11 7	16 36	22 22	22 31	22 31		n.a.
T 12	17 15	25 48	2 54	20 39	0 18	24 44	1 35	21 30	2 17	14 22	1 10	12 39	2 21	11 39	0 24	15 30	1 8	11 7	16 36	22 22	22 31	22 33		n.a.
W13	17 33	24 47	3 45	20 10	0n 2	24 52	1 37	21 27	2 18	14 21	1 10	12 38	2 20	11 40	0 24	15 30	1 8	11 7	16 36	22 22	22 31	22 34		n.a.
T 14	17 49	22 35	4 27	19 37	0 22	25 0	1 39	21 24	2 20	14 19	1 11	12 37	2 20	11 41	0 24	15 30	1 8	11 7	16 36	22 23	22 30	22 36		n.a.
F 15	18 6	19 19	4 57	19 2	0 42	25 6	1 40	21 22	2 22	14 17	1 11	12 35	2 20	11 43	0 24	15 30	1 8	11 8	16 36	22 23	22 30	22 38		n.a.
S 16	18 22	15 3	5 14	18 24	1 2	25 12	1 41	21 19	2 24	14 16	1 11	12 34	2 20	11 44	0 24	15 30	1 8	11 8	16 35	22 23	22 29	22 40		n.a.
S 17	18 38	9 57	5 15	17 45	1 22	25 17	1 43	21 17	2 26	14 14	1 11	12 32	2 20	11 45	0 24	15 30	1 8	11 8	16 35	22 22	22 29	22 41		n.a.
M18	18 54	4 13	4 58	17 7	1 41	25 22	1 44	21 14	2 28	14 13	1 12	12 31	2 20	11 46	0 24	15 29	1 8	11 8	16 35	22 22	22 28	22 43		n.a.
T 19	19 9	1s56	4 23	16 29	1 58	25 25	1 45	21 12	2 30	14 11	1 12	12 30	2 20	11 48	0 24	15 29	1 8	11 8	16 34	22 22	22 28	22 45		n.a.
W20	19 24	8 10	3 30	15 53	2 13	25 28	1 47	21 10	2 32	14 10	1 12	12 28	2 19	11 49	0 24	15 29	1 8	11 8	16 34	22 21	22 28	22 47		n.a.
T 21	19 39	14 6	2 22	15 21	2 27	25 30	1 48	21 8	2 34	14 9	1 13	12 27	2 19	11 50	0 24	15 29	1 8	11 8	16 34	22 21	22 27	22 48		n.a.
F 22	19 53	19 16	1 3	14 52	2 38	25 31	1 49	21 6	2 36	14 7	1 13	12 26	2 19	11 51	0 24	15 29	1 8	11 8	16 34	22 21	22 27	22 50		n.a.
S 23	20 7	23 11	0s21	14 28	2 46	25 32	1 50	21 5	2 38	14 6	1 13	12 24	2 19	11 52	0 24	15 28	1 8	11 8	16 33	22 21	22 26	22 52		n.a.
S 24	20 20	25 26	1 43	14 9	2 53	25 32	1 51	21 3	2 40	14 5	1 13	12 23	2 19	11 54	0 24	15 28	1 8	11 8	16 33	22 21	22 26	22 53		n.a.
M25	20 33	25 49	2 57	13 55	2 57	25 31	1 51	21 2	2 43	14 4	1 14	12 22	2 19	11 55	0 24	15 28	1 8	11 8	16 33	22 21	22 25	22 55		n.a.
T 26	20 46	24 24	3 57	13 46	2 59	25 29	1 52	21 1	2 45	14 3	1 14	12 20	2 19	11 56	0 24	15 28	1 7	11 8	16 33	22 21	22 25	22 57		n.a.
W27	20 58	21 30	4 41	13 41	3 0	25 26	1 53	21 0	2 47	14 2	1 14	12 19	2 18	11 57	0 24	15 27	1 7	11 8	16 32	22 21	22 24	22 58		n.a.
T 28	21 10	17 28	5 8	13 41	2 59	25 23	1 53	20 59	2 49	14 1	1 15	12 18	2 18	11 58	0 24	15 27	1 7	11 8	16 32	22 21	22 24	23 0		n.a.
F 29	21 21	12 42	5 18	13 45	2 57	25 18	1 54	20 58	2 51	14 1	1 15	12 17	2 18	11 59	0 24	15 27	1 7	11 8	16 32	22 21	22 24	23 2		n.a.
S 30	21s32	7s29	5s11	13s52	2n53	25s14	1s54	20n57	2n54	14n 0	1n15	12n16	2s18	12s 0	0n24	15s27	1s 7	11s 8	16s31	22n21	22n23	23n 3		n.a.

Julian Day Number = 1677532.5, Delta T = 03h17m14s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'30, Lahiri = - 5°36'30 Julian Calendar 1 Nov. 121 BCE == Greg. Calendar 29 Oct. 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 121 BCE
geocentric

DECEMBER 121 BCE (-120) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 27 41	6♐55'37	5♈46	15♏43	11♑16	9♌19	26♌33	8°R14	2♏17	21♒52	10°R 3	11°R 4	11♊14	14♊28	n.a.	S 1
M 2	4 31 37	7°56'52	18° 6	16°12	12°30	9°27	26°35	8♉10	2°20	21°53	10♈ 3	11♊ 4	11°10	14°35	n.a.	M 2
T 3	4 35 34	8°58'07	0♉15	16°48	13°43	9°36	26°38	8° 7	2°24	21°54	10° 2	11° 3	11° 7	14°41	n.a.	T 3
W 4	4 39 30	9°59'21	12°15	17°29	14°57	9°43	26°40	8° 3	2°27	21°55	10° 2	11° 3	11° 4	14°48	n.a.	W 4
T 5	4 43 27	11° 0'35	24° 8	18°15	16°10	9°50	26°42	7°59	2°30	21°56	10° 1	11°D 3	11° 1	14°55	n.a.	T 5
F 6	4 47 23	12° 1'49	5♊58	19° 6	17°23	9°57	26°44	7°55	2°33	21°57	10° 1	11°R 3	10°58	15° 1	n.a.	F 6
S 7	4 51 20	13° 3'03	17°46	20° 1	18°37	10° 2	26°45	7°52	2°36	21°58	10° 0	11° 3	10°55	15° 8	n.a.	S 7
S 8	4 55 16	14° 4'16	29°34	21° 0	19°50	10° 7	26°47	7°48	2°39	21°59	10° 0	11° 3	10°51	15°15	n.a.	S 8
M 9	4 59 13	15° 5'30	11♋25	22° 2	21° 3	10°11	26°48	7°45	2°42	22° 0	9°59	11° 2	10°48	15°21	n.a.	M 9
T 10	5 3 10	16° 6'43	23°20	23° 6	22°16	10°15	26°49	7°41	2°45	22° 1	9°59	11° 2	10°45	15°28	n.a.	T 10
W11	5 7 6	17° 7'56	5♌23	24°14	23°29	10°18	26°50	7°38	2°48	22° 2	9°59	11° 1	10°42	15°35	n.a.	W11
T 12	5 11 3	18° 9'08	17°37	25°23	24°42	10°20	26°50	7°35	2°51	22° 4	9°58	11° 0	10°39	15°41	n.a.	T 12
F 13	5 14 59	19°10'21	0♍ 5	26°35	25°55	10°21	26°51	7°32	2°54	22° 5	9°58	10°59	10°36	15°48	n.a.	F 13
S 14	5 18 56	20°11'33	12°51	27°49	27° 8	10°R22	26°51	7°29	2°57	22° 6	9°58	10°59	10°32	15°55	n.a.	S 14
S 15	5 22 52	21°12'44	25°57	29° 4	28°20	10°22	26°R51	7°26	2°59	22° 7	9°57	10°D59	10°29	16° 1	n.a.	S 15
M16	5 26 49	22°13'56	9♎27	0♐21	29°33	10°21	26°51	7°23	3° 2	22° 9	9°57	10°59	10°26	16° 8	n.a.	M16
T 17	5 30 45	23°15'07	23°22	1°39	0♒46	10°19	26°51	7°21	3° 5	22°10	9°57	11° 0	10°23	16°14	n.a.	T 17
W18	5 34 42	24°16'18	7♏43	2°59	1°58	10°17	26°50	7°18	3° 8	22°11	9°57	11° 1	10°20	16°21	n.a.	W18
T 19	5 38 39	25°17'29	22°26	4°19	3°11	10°14	26°50	7°15	3°10	22°13	9°56	11° 2	10°16	16°28	n.a.	T 19
F 20	5 42 35	26°18'39	7♐28	5°41	4°23	10°10	26°49	7°13	3°13	22°14	9°56	11°R 3	10°13	16°34	n.a.	F 20
S 21	5 46 32	27°19'48	22°40	7° 4	5°36	10° 5	26°48	7°11	3°15	22°16	9°56	11° 2	10°10	16°41	n.a.	S 21
S 22	5 50 28	28°20'57	7♑52	8°28	6°48	9°59	26°46	7° 9	3°18	22°17	9°56	11° 1	10° 7	16°48	n.a.	S 22
M23	5 54 25	29°22'05	22°56	9°53	8° 0	9°53	26°45	7° 6	3°20	22°19	9°56	10°59	10° 4	16°54	n.a.	M23
T 24	5 58 21	0♒23'12	7♒41	11°18	9°12	9°46	26°43	7° 5	3°23	22°20	9°56	10°57	10° 1	17° 1	n.a.	T 24
W25	6 2 18	1°24'17	22° 2	12°45	10°24	9°38	26°41	7° 3	3°25	22°22	9°56	10°54	9°57	17° 8	n.a.	W25
T 26	6 6 15	2°25'22	5♓55	14°12	11°36	9°29	26°39	7° 1	3°28	22°23	9°56	10°51	9°54	17°14	n.a.	T 26
F 27	6 10 11	3°26'25	19°20	15°40	12°48	9°19	26°37	6°59	3°30	22°25	9°D56	10°50	9°51	17°21	n.a.	F 27
S 28	6 14 8	4°27'27	2♈18	17° 8	14° 0	9° 9	26°35	6°58	3°32	22°27	9°56	10°D49	9°48	17°28	n.a.	S 28
S 29	6 18 4	5°28'27	14°54	18°38	15°12	8°58	26°32	6°56	3°35	22°28	9°56	10°49	9°45	17°34	n.a.	S 29
M30	6 22 1	6°29'26	27°10	20° 8	16°23	8°46	26°29	6°55	3°37	22°30	9°56	10°50	9°42	17°41	n.a.	M30
T 31	6 25 57	7♑30'24	9♉13	21♐39	17♒35	8♌33	26♌26	6♉54	3♏39	22♒32	9♈56	10♊52	9♊38	17♊48	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	21s43	2s 6	4s49	14s 3	2n49	25s 8	1s55	20n57	2n56	13n59	1n15	12n15	2s18	12s 2	0n24	15s26	1s 7	11s 8	16s31	22n21	22n23	23n 5			n.a.
M 2	21 53	3n16	4 14	14 16	2 43	25 1	1 55	20 57	2 58	13 59	1 16	12 14	2 17	12 3	0 24	15 26	1 7	11 8	16 31	22 21	22 22	23 7			n.a.
T 3	22 3	8 27	3 28	14 32	2 37	24 54	1 55	20 57	3 0	13 58	1 16	12 12	2 17	12 4	0 24	15 26	1 7	11 8	16 30	22 21	22 22	23 8			n.a.
W 4	22 12	13 15	2 34	14 50	2 31	24 46	1 55	20 57	3 3	13 58	1 16	12 11	2 17	12 5	0 24	15 25	1 7	11 7	16 30	22 21	22 21	23 10			n.a.
T 5	22 21	17 31	1 33	15 9	2 24	24 37	1 55	20 57	3 5	13 57	1 17	12 10	2 17	12 6	0 24	15 25	1 7	11 7	16 30	22 21	22 21	23 12			n.a.
F 6	22 29	21 5	0 28	15 31	2 16	24 28	1 55	20 57	3 7	13 57	1 17	12 9	2 16	12 7	0 24	15 25	1 7	11 7	16 29	22 21	22 20	23 13			n.a.
S 7	22 37	23 45	0n37	15 53	2 9	24 18	1 55	20 58	3 10	13 57	1 17	12 8	2 16	12 8	0 24	15 24	1 7	11 7	16 29	22 21	22 20	23 15			n.a.
S 8	22 45	25 24	1 41	16 16	2 1	24 7	1 55	20 59	3 12	13 56	1 18	12 8	2 16	12 9	0 24	15 24	1 7	11 7	16 29	22 21	22 20	23 17			n.a.
M 9	22 52	25 53	2 41	16 40	1 53	23 55	1 54	21 0	3 14	13 56	1 18	12 7	2 16	12 10	0 24	15 23	1 7	11 7	16 28	22 21	22 19	23 18			n.a.
T 10	22 59	25 11	3 34	17 5	1 44	23 43	1 54	21 1	3 17	13 56	1 18	12 6	2 16	12 11	0 24	15 23	1 7	11 7	16 28	22 21	22 19	23 20			n.a.
W11	23 5	23 18	4 18	17 30	1 36	23 30	1 53	21 3	3 19	13 56	1 18	12 5	2 15	12 12	0 24	15 23	1 7	11 7	16 28	22 21	22 18	23 21			n.a.
T 12	23 11	20 21	4 52	17 55	1 27	23 17	1 53	21 5	3 21	13 56	1 19	12 4	2 15	12 13	0 24	15 22	1 7	11 6	16 27	22 21	22 18	23 23			n.a.
F 13	23 16	16 25	5 12	18 20	1 19	23 2	1 52	21 7	3 24	13 56	1 19	12 3	2 15	12 14	0 24	15 22	1 7	11 6	16 27	22 21	22 17	23 25			n.a.
S 14	23 21	11 41	5 17	18 45	1 10	22 47	1 51	21 9	3 26	13 57	1 19	12 3	2 15	12 15	0 24	15 21	1 7	11 6	16 27	22 21	22 17	23 26			n.a.
S 15	23 25	6 19	5 7	19 10	1 2	22 32	1 50	21 11	3 29	13 57	1 20	12 2	2 14	12 16	0 24	15 21	1 7	11 6	16 26	22 21	22 16	23 28			n.a.
M16	23 29	0 29	4 39	19 35	0 54	22 15	1 49	21 14	3 31	13 57	1 20	12 1	2 14	12 17	0 24	15 20	1 7	11 6	16 26	22 21	22 16	23 29			n.a.
T 17	23 32	5s33	3 55	19 59	0 45	21 58	1 48	21 16	3 34	13 58	1 20	12 1	2 14	12 18	0 24	15 20	1 7	11 5	16 26	22 21	22 15	23 31			n.a.
W18	23 35	11 29	2 55	20 23	0 37	21 41	1 47	21 19	3 36	13 58	1 21	12 0	2 14	12 19	0 24	15 19	1 7	11 5	16 25	22 21	22 15	23 32			n.a.
T 19	23 38	16 57	1 41	20 47	0 29	21 23	1 46	21 23	3 38	13 59	1 21	11 59	2 13	12 20	0 24	15 19	1 7	11 5	16 25	22 21	22 15	23 34			n.a.
F 20	23 39	21 29	0 20	21 9	0 21	21 4	1 44	21 26	3 41	13 59	1 21	11 59	2 13	12 21	0 24	15 19	1 7	11 5	16 25	22 21	22 14	23 36			n.a.
S 21	23 41	24 34	1s 4	21 31	0 13	20 45	1 43	21 30	3 43	14 0	1 21	11 58	2 13	12 22	0 24	15 18	1 7	11 4	16 24	22 21	22 14	23 37			n.a.
S 22	23 42	25 51	2 23	21 53	0 5	20 25	1 41	21 34	3 46	14 0	1 22	11 58	2 12	12 22	0 24	15 17	1 7	11 4	16 24	22 21	22 13	23 39			n.a.
M23	23 43	25 13	3 32	22 14	0s 3	20 5	1 40	21 38	3 48	14 1	1 22	11 58	2 12	12 23	0 24	15 17	1 7	11 4	16 24	22 21	22 13	23 40			n.a.
T 24	23 43	22 48	4 24	22 33	0 10	19 44	1 38	21 42	3 50	14 2	1 22	11 57	2 12	12 24	0 24	15 16	1 7	11 3	16 23	22 20	22 12	23 42			n.a.
W25	23 42	19 1	4 59	22 52	0 17	19 22	1 36	21 46	3 53	14 3	1 23	11 57	2 12	12 25	0 24	15 16	1 7	11 3	16 23	22 20	22 12	23 43			n.a.
T 26	23 41	14 18	5 14	23 10	0 25	19 0	1 34	21 51	3 55	14 4	1 23	11 57	2 11	12 26	0 24	15 15	1 7	11 3	16 23	22 20	22 11	23 45			n.a.
F 27	23 40	9 3	5 12	23 27	0 32	18 38	1 32	21 56	3 57	14 5	1 23	11 56	2 11	12 27	0 24	15 15	1 7	11 3	16 22	22 19	22 11	23 46			n.a.
S 28	23 38	3 33	4 54	23 43	0 39	18 15	1 30	22 1	4 0	14 6	1 24	11 56	2 11	12 27	0 24	15 14	1 7	11 2	16 22	22 19	22 10	23 48			n.a.
S 29	23 36	1n55	4 22	23 58	0 45	17 52	1 28	22 6	4 2	14 7	1 24	11 56	2 10	12 28	0 24	15 14	1 7	11 2	16 22	22 19	22 10	23 49			n.a.
M30	23 33	7 11	3 38	24 12	0 52	17 28	1 26	22 11	4 4	14 9	1 24	11 56	2 10	12 29	0 24	15 13	1 7	11 2	16 21	22 19	22 9	23 51			n.a.
T 31	23s30	12n 7	2s46	24s24	0s58	17s 4	1s23	22n17	4n 6	14n10	1n24	11n56	2s10	12s30	0n24	15s13	1s 7	11s 1	16s21	22n20	22n 9	23n52			n.a.

Julian Day Number = 1677562.5, Delta T = 03h17m13s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'26, Lahiri = - 5°36'26 Julian Calendar 1 Dec. 121 BCE == Greg. Calendar 28 Nov. 121 BCE

The year -120 astronomical counting style corresponds to year 121 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

JANUARY 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 29 54	8♑31'21	21♉ 6	23♐10	18♒46	8°R19	26°R23	6°R53	3♏41	22♒33	9♈56	10♊54	9♊35	17♊54	n.a.	W 1
T 2	6 33 50	9°32'16	2♊54	24°43	19°57	8♌ 5	26♌20	6♉52	3°43	22°35	9°56	10°55	9°32	18° 1	n.a.	T 2
F 3	6 37 47	10°33'09	14°41	26°16	21° 9	7°50	26°16	6°51	3°45	22°37	9°56	10°R56	9°29	18° 7	n.a.	F 3
S 4	6 41 44	11°34'02	26°29	27°50	22°20	7°35	26°13	6°50	3°47	22°39	9°56	10°54	9°26	18°14	n.a.	S 4
S 5	6 45 40	12°34'53	8♋21	29°24	23°31	7°18	26° 9	6°49	3°49	22°41	9°57	10°51	9°22	18°21	n.a.	S 5
M 6	6 49 37	13°35'43	20°19	0♑59	24°41	7° 1	26° 5	6°49	3°51	22°43	9°57	10°47	9°19	18°27	n.a.	M 6
T 7	6 53 33	14°36'31	2♌25	2°35	25°52	6°44	26° 1	6°48	3°53	22°44	9°57	10°41	9°16	18°34	n.a.	T 7
W 8	6 57 30	15°37'18	14°41	4°12	27° 3	6°25	25°56	6°48	3°54	22°46	9°57	10°35	9°13	18°41	n.a.	W 8
T 9	7 1 26	16°38'04	27° 6	5°49	28°13	6° 6	25°52	6°48	3°56	22°48	9°58	10°28	9°10	18°47	n.a.	T 9
F 10	7 5 23	17°38'48	9♍44	7°28	29°23	5°47	25°47	6°D48	3°58	22°50	9°58	10°22	9° 7	18°54	n.a.	F 10
S 11	7 9 19	18°39'32	22°35	9° 7	0♓34	5°27	25°42	6°48	3°59	22°52	9°58	10°18	9° 3	19° 1	n.a.	S 11
S 12	7 13 16	19°40'14	5♎42	10°47	1°44	5° 6	25°37	6°48	4° 1	22°54	9°59	10°15	9° 0	19° 7	n.a.	S 12
M13	7 17 13	20°40'54	19° 6	12°27	2°53	4°45	25°32	6°48	4° 2	22°56	9°59	10°D14	8°57	19°14	n.a.	M13
T 14	7 21 9	21°41'34	2♏50	14° 9	4° 3	4°23	25°27	6°49	4° 4	22°58	9°59	10°14	8°54	19°21	n.a.	T 14
W15	7 25 6	22°42'12	16°54	15°51	5°13	4° 1	25°21	6°49	4° 5	23° 0	10° 0	10°16	8°51	19°27	n.a.	W15
T 16	7 29 2	23°42'49	1♐17	17°34	6°22	3°39	25°16	6°50	4° 7	23° 2	10° 0	10°17	8°48	19°34	n.a.	T 16
F 17	7 32 59	24°43'25	15°58	19°19	7°32	3°16	25°10	6°51	4° 8	23° 4	10° 1	10°R17	8°44	19°41	n.a.	F 17
S 18	7 36 55	25°43'59	0♑53	21° 4	8°41	2°53	25° 4	6°51	4° 9	23° 6	10° 1	10°15	8°41	19°47	n.a.	S 18
S 19	7 40 52	26°44'32	15°53	22°50	9°50	2°30	24°58	6°52	4°10	23° 8	10° 2	10°11	8°38	19°54	n.a.	S 19
M20	7 44 48	27°45'04	0♒50	24°37	10°59	2° 6	24°52	6°54	4°12	23°10	10° 2	10° 5	8°35	20° 1	n.a.	M20
T 21	7 48 45	28°45'33	15°36	26°24	12° 7	1°43	24°45	6°55	4°13	23°12	10° 3	9°58	8°32	20° 7	n.a.	T 21
W22	7 52 42	29°46'00	0♓ 1	28°13	13°16	1°19	24°39	6°56	4°14	23°14	10° 3	9°49	8°28	20°14	n.a.	W22
T 23	7 56 38	0♒46'26	14° 2	0♒ 3	14°24	0°55	24°33	6°57	4°15	23°17	10° 4	9°42	8°25	20°20	n.a.	T 23
F 24	8 0 35	1°46'49	27°35	1°53	15°32	0°31	24°26	6°59	4°16	23°19	10° 4	9°35	8°22	20°27	n.a.	F 24
S 25	8 4 31	2°47'11	10♈40	3°44	16°40	0° 7	24°19	7° 1	4°17	23°21	10° 5	9°30	8°19	20°34	n.a.	S 25
S 26	8 8 28	3°47'30	23°20	5°36	17°48	29♋44	24°12	7° 2	4°17	23°23	10° 6	9°28	8°16	20°40	n.a.	S 26
M27	8 12 24	4°47'47	5♉38	7°29	18°55	29°20	24° 5	7° 4	4°18	23°25	10° 6	9°D27	8°13	20°47	n.a.	M27
T 28	8 16 21	5°48'02	17°41	9°23	20° 3	28°56	23°58	7° 6	4°19	23°27	10° 7	9°28	8° 9	20°54	n.a.	T 28
W29	8 20 17	6°48'15	29°34	11°17	21°10	28°33	23°51	7° 8	4°20	23°30	10° 8	9°29	8° 6	21° 0	n.a.	W29
T 30	8 24 14	7°48'26	11♊21	13°12	22°17	28°10	23°44	7°10	4°20	23°32	10° 8	9°R29	8° 3	21° 7	n.a.	T 30
F 31	8 28 11	8♒48'35	23♊ 7	15♒ 7	23♓23	27♋47	23♌37	7♉13	4♏21	23♒34	10♈ 9	9♊28	8♊ 0	21♊14	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	23s26	16n31	1s47	24s36	1s 4	16s39	1s21	22n23	4n 8	14n11	1n25	11n55	2s10	12s30	0n24	15s12	1s 7	11s 1	16s20	22n20	22n 8	23n54			n.a.
T 2	23 22	20 15	0 44	24 46	1 9	16 14	1 18	22 28	4 10	14 13	1 25	11 55	2 9	12 31	0 24	15 11	1 7	11 0	16 20	22 20	22 8	23 55			n.a.
F 3	23 17	23 10	0n21	24 54	1 15	15 48	1 16	22 34	4 12	14 14	1 25	11 55	2 9	12 32	0 24	15 11	1 7	11 0	16 20	22 20	22 7	23 57			n.a.
S 4	23 12	25 4	1 24	25 2	1 20	15 22	1 13	22 40	4 14	14 16	1 26	11 55	2 9	12 32	0 24	15 10	1 7	11 0	16 19	22 20	22 7	23 58			n.a.
S 5	23 6	25 51	2 25	25 8	1 25	14 56	1 10	22 47	4 16	14 17	1 26	11 56	2 8	12 33	0 24	15 9	1 7	10 59	16 19	22 20	22 6	24 0			n.a.
M 6	23 0	25 26	3 19	25 12	1 30	14 30	1 7	22 53	4 18	14 19	1 26	11 56	2 8	12 34	0 24	15 9	1 7	10 59	16 19	22 19	22 6	24 1			n.a.
T 7	22 54	23 49	4 5	25 16	1 34	14 3	1 4	22 59	4 20	14 21	1 26	11 56	2 8	12 34	0 24	15 8	1 7	10 58	16 18	22 18	22 5	24 3			n.a.
W 8	22 47	21 4	4 40	25 17	1 39	13 35	1 1	23 6	4 21	14 22	1 27	11 56	2 8	12 35	0 24	15 8	1 7	10 58	16 18	22 17	22 5	24 4			n.a.
T 9	22 40	17 20	5 3	25 17	1 43	13 8	0 58	23 12	4 23	14 24	1 27	11 56	2 7	12 35	0 24	15 7	1 7	10 58	16 18	22 16	22 4	24 5			n.a.
F 10	22 32	12 47	5 11	25 16	1 46	12 40	0 55	23 18	4 25	14 26	1 27	11 56	2 7	12 36	0 24	15 6	1 7	10 57	16 17	22 15	22 4	24 7			n.a.
S 11	22 24	7 37	5 4	25 13	1 49	12 12	0 51	23 25	4 26	14 28	1 27	11 57	2 7	12 36	0 24	15 6	1 6	10 57	16 17	22 15	22 4	24 8			n.a.
S 12	22 15	2 0	4 41	25 8	1 52	11 43	0 48	23 32	4 28	14 30	1 28	11 57	2 6	12 37	0 24	15 5	1 6	10 56	16 17	22 14	22 3	24 10			n.a.
M13	22 6	3s50	4 2	25 1	1 55	11 15	0 44	23 38	4 29	14 32	1 28	11 57	2 6	12 37	0 24	15 4	1 6	10 56	16 16	22 14	22 3	24 11			n.a.
T 14	21 56	9 38	3 9	24 53	1 57	10 46	0 41	23 45	4 30	14 34	1 28	11 58	2 6	12 38	0 25	15 4	1 6	10 55	16 16	22 14	22 2	24 13			n.a.
W15	21 46	15 6	2 4	24 43	1 59	10 17	0 37	23 51	4 31	14 36	1 28	11 58	2 5	12 38	0 25	15 3	1 6	10 55	16 16	22 14	22 2	24 14			n.a.
T 16	21 36	19 51	0 49	24 32	2 0	9 47	0 33	23 58	4 32	14 38	1 29	11 59	2 5	12 39	0 25	15 2	1 6	10 54	16 15	22 15	22 1	24 15			n.a.
F 17	21 25	23 28	0s31	24 18	2 1	9 18	0 29	24 4	4 33	14 40	1 29	11 59	2 5	12 39	0 25	15 2	1 6	10 54	16 15	22 15	22 1	24 17			n.a.
S 18	21 14	25 32	1 49	24 3	2 2	8 48	0 25	24 10	4 34	14 43	1 29	12 0	2 5	12 40	0 25	15 1	1 6	10 53	16 14	22 14	22 0	24 18			n.a.
S 19	21 3	25 44	3 0	23 46	2 2	8 18	0 21	24 16	4 35	14 45	1 29	12 0	2 4	12 40	0 25	15 0	1 6	10 53	16 14	22 14	22 0	24 20			n.a.
M20	20 51	24 5	3 59	23 27	2 2	7 48	0 17	24 23	4 35	14 47	1 29	12 1	2 4	12 41	0 25	15 0	1 6	10 52	16 14	22 13	21 59	24 21			n.a.
T 21	20 38	20 48	4 40	23 6	2 1	7 18	0 13	24 29	4 36	14 49	1 30	12 2	2 4	12 41	0 25	14 59	1 6	10 52	16 13	22 12	21 59	24 22			n.a.
W22	20 26	16 18	5 3	22 43	2 0	6 47	0 9	24 34	4 36	14 52	1 30	12 2	2 3	12 41	0 25	14 58	1 6	10 51	16 13	22 11	21 58	24 24			n.a.
T 23	20 13	11 3	5 6	22 18	1 58	6 17	0 5	24 40	4 36	14 54	1 30	12 3	2 3	12 42	0 25	14 57	1 6	10 51	16 13	22 9	21 58	24 25			n.a.
F 24	19 59	5 26	4 52	21 51	1 56	5 46	0 0	24 46	4 36	14 57	1 30	12 4	2 3	12 42	0 25	14 57	1 6	10 50	16 12	22 8	21 57	24 26			n.a.
S 25	19 46	0n14	4 23	21 22	1 53	5 15	0n 4	24 51	4 37	14 59	1 31	12 5	2 3	12 42	0 25	14 56	1 6	10 50	16 12	22 8	21 56	24 28			n.a.
S 26	19 31	5 44	3 42	20 52	1 50	4 45	0 9	24 56	4 36	15 2	1 31	12 6	2 2	12 42	0 25	14 55	1 6	10 49	16 12	22 7	21 56	24 29			n.a.
M27	19 17	10 51	2 52	20 19	1 46	4 14	0 13	25 1	4 36	15 4	1 31	12 7	2 2	12 43	0 25	14 54	1 6	10 49	16 11	22 7	21 55	24 30			n.a.
T 28	19 2	15 28	1 54	19 44	1 42	3 43	0 18	25 6	4 36	15 7	1 31	12 7	2 2	12 43	0 25	14 54	1 6	10 48	16 11	22 7	21 55	24 32			n.a.
W29	18 47	19 25	0 53	19 8	1 37	3 12	0 23	25 11	4 36	15 9	1 31	12 8	2 1	12 43	0 25	14 53	1 6	10 48	16 11	22 7	21 54	24 33			n.a.
T 30	18 31	22 34	0n10	18 30	1 31	2 41	0 27	25 15	4 35	15 12	1 31	12 9	2 1	12 43	0 25	14 52	1 6	10 47	16 11	22 7	21 54	24 34			n.a.
F 31	18s16	24n44	1n12	17s50	1s25	2s10	0n32	25n19	4n35	15n14	1n32	12n10	2s 1	12s44	0n25	14s52	1s 6	10s46	16s10	22n 7	21n53	24n36			n.a.

Julian Day Number = 1677593.5, Delta T = 03h17m12s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'22, Lahiri = - 5°36'21 Julian Calendar 1 Jan. 120 BCE == Greg. Calendar 29 Dec. 121 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

FEBRUARY 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 32 7	9♒48'41	4♋58	17♒ 2	24♓30	27°R25	23°R29	7♉15	4♏21	23♒36	10♈10	9°R25	7♊57	21♊20	n.a.	S 1
S 2	8 36 4	10°48'46	16°56	18°57	25°36	27♋ 3	23♌22	7°18	4°22	23°38	10°10	9♊19	7°54	21°27	n.a.	S 2
M 3	8 40 0	11°48'48	29° 3	20°53	26°42	26°41	23°15	7°20	4°22	23°41	10°11	9°10	7°50	21°34	n.a.	M 3
T 4	8 43 57	12°48'49	11♌23	22°47	27°48	26°20	23° 7	7°23	4°23	23°43	10°12	8°59	7°47	21°40	n.a.	T 4
W 5	8 47 53	13°48'47	23°54	24°41	28°53	25°59	22°59	7°26	4°23	23°45	10°13	8°48	7°44	21°47	n.a.	W 5
T 6	8 51 50	14°48'43	6♍38	26°34	29°58	25°39	22°52	7°29	4°23	23°47	10°14	8°36	7°41	21°54	n.a.	T 6
F 7	8 55 46	15°48'37	19°34	28°26	1♈ 3	25°19	22°44	7°32	4°23	23°50	10°15	8°25	7°38	22° 0	n.a.	F 7
S 8	8 59 43	16°48'30	2♎42	0♓16	2° 8	25° 0	22°36	7°35	4°23	23°52	10°15	8°15	7°34	22° 7	n.a.	S 8
S 9	9 3 40	17°48'20	16° 1	2° 3	3°12	24°42	22°29	7°38	4°23	23°54	10°16	8° 9	7°31	22°14	n.a.	S 9
M10	9 7 36	18°48'09	29°32	3°48	4°16	24°24	22°21	7°41	4°R24	23°56	10°17	8° 5	7°28	22°20	n.a.	M10
T 11	9 11 33	19°47'56	13♏15	5°30	5°20	24° 7	22°13	7°45	4°23	23°59	10°18	8° 3	7°25	22°27	n.a.	T 11
W12	9 15 29	20°47'41	27°10	7° 8	6°23	23°50	22° 5	7°48	4°23	24° 1	10°19	8°D 3	7°22	22°33	n.a.	W12
T 13	9 19 26	21°47'25	11♐19	8°42	7°26	23°34	21°58	7°52	4°23	24° 3	10°20	8°R 4	7°19	22°40	n.a.	T 13
F 14	9 23 22	22°47'07	25°39	10°11	8°29	23°19	21°50	7°56	4°23	24° 6	10°21	8° 3	7°15	22°47	n.a.	F 14
S 15	9 27 19	23°46'47	10♑ 9	11°35	9°31	23° 4	21°42	7°59	4°23	24° 8	10°22	7°59	7°12	22°53	n.a.	S 15
S 16	9 31 15	24°46'25	24°45	12°53	10°33	22°51	21°34	8° 3	4°23	24°10	10°23	7°53	7° 9	23° 0	n.a.	S 16
M17	9 35 12	25°46'01	9♒20	14° 5	11°35	22°38	21°26	8° 7	4°22	24°12	10°24	7°45	7° 6	23° 7	n.a.	M17
T 18	9 39 9	26°45'35	23°48	15°11	12°36	22°25	21°19	8°11	4°22	24°15	10°25	7°34	7° 3	23°13	n.a.	T 18
W19	9 43 5	27°45'07	8♓ 3	16°10	13°37	22°14	21°11	8°16	4°21	24°17	10°26	7°21	7° 0	23°20	n.a.	W19
T 20	9 47 2	28°44'36	21°57	17° 2	14°38	22° 3	21° 3	8°20	4°21	24°19	10°27	7°10	6°56	23°27	n.a.	T 20
F 21	9 50 58	29°44'04	5♈28	17°47	15°38	21°53	20°56	8°24	4°20	24°21	10°28	6°59	6°53	23°33	n.a.	F 21
S 22	9 54 55	0♓43'29	18°33	18°24	16°38	21°44	20°48	8°29	4°20	24°24	10°29	6°51	6°50	23°40	n.a.	S 22
S 23	9 58 51	1°42'51	1♉15	18°53	17°37	21°36	20°40	8°33	4°19	24°26	10°30	6°45	6°47	23°47	n.a.	S 23
M24	10 2 48	2°42'11	13°37	19°14	18°36	21°28	20°33	8°38	4°18	24°28	10°31	6°43	6°44	23°53	n.a.	M24
T 25	10 6 44	3°41'29	25°42	19°28	19°34	21°22	20°25	8°43	4°18	24°30	10°33	6°42	6°40	24° 0	n.a.	T 25
W26	10 10 41	4°40'45	7♊36	19°R34	20°32	21°16	20°18	8°47	4°17	24°33	10°34	6°41	6°37	24° 7	n.a.	W26
T 27	10 14 37	5°39'58	19°24	19°33	21°29	21°11	20°11	8°52	4°16	24°35	10°35	6°41	6°34	24°13	n.a.	T 27
F 28	10 18 34	6♓39'09	1♋12	19♓24	22♈26	21♋ 6	20♌ 3	8♉57	4♏15	24♒37	10♈36	6♊40	6♊31	24♊20	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s 0	25n49	2n12	17s 8	1s18	1s39	0n37	25n23	4n34	15n17	1n32	12n12	2s 0	12s44	0n25	14s51	1s 6	10s46	16s10	22n 7	21n53	24n37		n.a.
S 2	17 43	25 42	3 6	16 25	1 10	1 8	0 42	25 27	4 33	15 20	1 32	12 13	2 0	12 44	0 25	14 50	1 6	10 45	16 10	22 6	21 52	24 38		n.a.
M 3	17 26	24 22	3 53	15 40	1 2	0 37	0 47	25 30	4 32	15 22	1 32	12 14	2 0	12 44	0 25	14 49	1 6	10 45	16 9	22 5	21 52	24 40		n.a.
T 4	17 9	21 52	4 29	14 54	0 53	0 6	0 52	25 33	4 31	15 25	1 32	12 15	2 0	12 44	0 25	14 49	1 6	10 44	16 9	22 3	21 51	24 41		n.a.
W 5	16 52	18 18	4 53	14 7	0 43	0n25	0 57	25 36	4 30	15 27	1 32	12 16	1 59	12 44	0 25	14 48	1 6	10 44	16 9	22 1	21 51	24 42		n.a.
T 6	16 34	13 51	5 2	13 19	0 33	0 56	1 2	25 39	4 29	15 30	1 32	12 17	1 59	12 44	0 25	14 47	1 6	10 43	16 8	21 59	21 50	24 43		n.a.
F 7	16 17	8 43	4 57	12 30	0 22	1 27	1 7	25 42	4 28	15 33	1 32	12 19	1 59	12 44	0 25	14 46	1 6	10 42	16 8	21 57	21 50	24 45		n.a.
S 8	15 59	3 8	4 36	11 40	0 11	1 58	1 12	25 44	4 26	15 35	1 33	12 20	1 58	12 44	0 25	14 46	1 6	10 42	16 8	21 56	21 49	24 46		n.a.
S 9	15 40	2s41	4 0	10 51	0n 1	2 28	1 18	25 46	4 25	15 38	1 33	12 21	1 58	12 44	0 25	14 45	1 6	10 41	16 8	21 55	21 49	24 47		n.a.
M10	15 22	8 29	3 9	10 1	0 14	2 59	1 23	25 48	4 23	15 41	1 33	12 22	1 58	12 44	0 25	14 44	1 6	10 41	16 7	21 54	21 48	24 48		n.a.
T 11	15 3	13 58	2 8	9 11	0 26	3 29	1 28	25 49	4 22	15 43	1 33	12 24	1 58	12 44	0 25	14 43	1 6	10 40	16 7	21 54	21 48	24 50		n.a.
W12	14 43	18 49	0 57	8 23	0 40	3 59	1 33	25 51	4 20	15 46	1 33	12 25	1 57	12 44	0 25	14 43	1 6	10 39	16 7	21 54	21 47	24 51		n.a.
T 13	14 24	22 41	0s17	7 35	0 53	4 29	1 39	25 52	4 18	15 49	1 33	12 27	1 57	12 44	0 25	14 42	1 6	10 39	16 6	21 54	21 47	24 52		n.a.
F 14	14 5	25 10	1 32	6 49	1 6	4 59	1 44	25 53	4 17	15 51	1 33	12 28	1 57	12 44	0 25	14 41	1 6	10 38	16 6	21 54	21 46	24 53		n.a.
S 15	13 45	26 0	2 41	6 4	1 20	5 29	1 50	25 54	4 15	15 54	1 33	12 30	1 57	12 44	0 25	14 40	1 6	10 37	16 6	21 53	21 46	24 55		n.a.
S 16	13 25	25 2	3 40	5 21	1 34	5 59	1 55	25 54	4 13	15 57	1 33	12 31	1 56	12 44	0 25	14 40	1 6	10 37	16 6	21 52	21 45	24 56		n.a.
M17	13 4	22 22	4 25	4 41	1 47	6 28	2 0	25 55	4 11	15 59	1 33	12 33	1 56	12 44	0 25	14 39	1 6	10 36	16 5	21 51	21 44	24 57		n.a.
T 18	12 44	18 19	4 52	4 3	2 0	6 58	2 6	25 55	4 9	16 2	1 33	12 34	1 56	12 44	0 25	14 38	1 6	10 36	16 5	21 49	21 44	24 58		n.a.
W19	12 23	13 17	5 1	3 29	2 13	7 27	2 11	25 55	4 7	16 4	1 33	12 36	1 56	12 43	0 25	14 37	1 6	10 35	16 5	21 47	21 43	24 59		n.a.
T 20	12 3	7 40	4 51	2 57	2 25	7 56	2 17	25 55	4 5	16 7	1 33	12 37	1 55	12 43	0 25	14 36	1 6	10 34	16 5	21 45	21 43	25 1		n.a.
F 21	11 42	1 51	4 25	2 29	2 37	8 24	2 22	25 54	4 3	16 9	1 33	12 39	1 55	12 43	0 25	14 36	1 7	10 34	16 4	21 43	21 42	25 2		n.a.
S 22	11 20	3n53	3 46	2 4	2 48	8 53	2 28	25 54	4 1	16 12	1 33	12 41	1 55	12 43	0 25	14 35	1 7	10 33	16 4	21 42	21 42	25 3		n.a.
S 23	10 59	9 18	2 56	1 43	2 58	9 21	2 33	25 53	3 59	16 14	1 33	12 43	1 54	12 43	0 25	14 34	1 7	10 32	16 4	21 41	21 41	25 4		n.a.
M24	10 38	14 13	1 59	1 26	3 7	9 49	2 39	25 52	3 56	16 17	1 33	12 44	1 54	12 42	0 25	14 33	1 7	10 32	16 4	21 41	21 41	25 5		n.a.
T 25	10 16	18 28	0 58	1 14	3 15	10 16	2 44	25 51	3 54	16 19	1 33	12 46	1 54	12 42	0 25	14 33	1 7	10 31	16 4	21 40	21 40	25 6		n.a.
W26	9 54	21 54	0n 5	1 5	3 22	10 44	2 50	25 50	3 52	16 21	1 33	12 48	1 54	12 42	0 25	14 32	1 7	10 31	16 3	21 40	21 40	25 8		n.a.
T 27	9 32	24 24	1 7	1 0	3 27	11 11	2 55	25 48	3 50	16 24	1 33	12 50	1 54	12 42	0 25	14 31	1 7	10 30	16 3	21 40	21 39	25 9		n.a.
F 28	9s10	25n48	2n 6	1s 0	3n31	11n37	3n 1	25n47	3n48	16n26	1n33	12n51	1s53	12s41	0n25	14s30	1s 7	10s29	16s 3	21n40	21n39	25n10		n.a.

Julian Day Number = 1677624.5, Delta T = 03h17m11s
Ecliptic obliquity = 23°42'38, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'18, Lahiri = - 5°36'17 Julian Calendar 1 Feb. 120 BCE == Greg. Calendar 29 Jan. 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

MARCH 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 22 31	7♓38'17	13♋ 6	19°R 9	23♈23	21°R 3	19°R56	9♉ 2	4°R14	24♒39	10♈37	6°R36	6♊28	24♊27	n.a.	S 1
S 2	10 26 27	8°37'23	25° 9	18♓47	24°18	21♋ 0	19♌49	9° 7	4♏13	24°42	10°38	6♊29	6°25	24°33	n.a.	S 2
M 3	10 30 24	9°36'27	7♌24	18°19	25°14	20°58	19°42	9°13	4°12	24°44	10°39	6°20	6°21	24°40	n.a.	M 3
T 4	10 34 20	10°35'28	19°56	17°46	26° 8	20°57	19°35	9°18	4°11	24°46	10°41	6° 9	6°18	24°46	n.a.	T 4
W 5	10 38 17	11°34'27	2♍43	17° 8	27° 2	20°D56	19°29	9°23	4°10	24°48	10°42	5°56	6°15	24°53	n.a.	W 5
T 6	10 42 13	12°33'24	15°47	16°26	27°56	20°56	19°22	9°29	4° 9	24°50	10°43	5°43	6°12	25° 0	n.a.	T 6
F 7	10 46 10	13°32'19	29° 6	15°42	28°48	20°57	19°15	9°34	4° 7	24°53	10°44	5°31	6° 9	25° 6	n.a.	F 7
S 8	10 50 6	14°31'11	12♎37	14°56	29°40	20°59	19° 9	9°40	4° 6	24°55	10°46	5°21	6° 6	25°13	n.a.	S 8
S 9	10 54 3	15°30'02	26°18	14° 9	0♉32	21° 1	19° 2	9°45	4° 5	24°57	10°47	5°13	6° 2	25°20	n.a.	S 9
M10	10 58 0	16°28'51	10♏ 7	13°21	1°22	21° 5	18°56	9°51	4° 3	24°59	10°48	5° 9	5°59	25°26	n.a.	M10
T 11	11 1 56	17°27'38	24° 3	12°35	2°12	21° 8	18°50	9°57	4° 2	25° 1	10°49	5° 7	5°56	25°33	n.a.	T 11
W12	11 5 53	18°26'23	8♐ 4	11°50	3° 1	21°13	18°44	10° 3	4° 1	25° 3	10°51	5°D 7	5°53	25°40	n.a.	W12
T 13	11 9 49	19°25'07	22° 9	11° 8	3°49	21°18	18°38	10° 8	3°59	25° 6	10°52	5°R 7	5°50	25°46	n.a.	T 13
F 14	11 13 46	20°23'48	6♑18	10°28	4°37	21°24	18°32	10°14	3°57	25° 8	10°53	5° 6	5°46	25°53	n.a.	F 14
S 15	11 17 42	21°22'28	20°29	9°53	5°23	21°30	18°27	10°20	3°56	25°10	10°54	5° 3	5°43	26° 0	n.a.	S 15
S 16	11 21 39	22°21'07	4♒40	9°21	6° 9	21°37	18°21	10°27	3°54	25°12	10°56	4°58	5°40	26° 6	n.a.	S 16
M17	11 25 35	23°19'43	18°49	8°54	6°54	21°45	18°16	10°33	3°53	25°14	10°57	4°50	5°37	26°13	n.a.	M17
T 18	11 29 32	24°18'18	2♓51	8°32	7°37	21°53	18°11	10°39	3°51	25°16	10°58	4°40	5°34	26°20	n.a.	T 18
W19	11 33 29	25°16'50	16°42	8°15	8°20	22° 2	18° 6	10°45	3°49	25°18	11° 0	4°28	5°31	26°26	n.a.	W19
T 20	11 37 25	26°15'21	0♈17	8° 2	9° 2	22°12	18° 1	10°52	3°47	25°20	11° 1	4°17	5°27	26°33	n.a.	T 20
F 21	11 41 22	27°13'49	13°33	7°55	9°43	22°22	17°56	10°58	3°46	25°22	11° 2	4° 7	5°24	26°40	n.a.	F 21
S 22	11 45 18	28°12'16	26°30	7°D53	10°22	22°33	17°52	11° 4	3°44	25°24	11° 4	3°59	5°21	26°46	n.a.	S 22
S 23	11 49 15	29°10'40	9♉ 7	7°57	11° 0	22°44	17°47	11°11	3°42	25°26	11° 5	3°54	5°18	26°53	n.a.	S 23
M24	11 53 11	0♈ 9'03	21°26	8° 5	11°38	22°56	17°43	11°18	3°40	25°28	11° 6	3°51	5°15	27° 0	n.a.	M24
T 25	11 57 8	1° 7'23	3♊31	8°18	12°13	23° 8	17°39	11°24	3°38	25°30	11° 8	3°D51	5°11	27° 6	n.a.	T 25
W26	12 1 4	2° 5'41	15°26	8°35	12°48	23°21	17°35	11°31	3°36	25°32	11° 9	3°51	5° 8	27°13	n.a.	W26
T 27	12 5 1	3° 3'57	27°15	8°58	13°21	23°35	17°31	11°38	3°34	25°34	11°10	3°52	5° 5	27°20	n.a.	T 27
F 28	12 8 57	4° 2'11	9♋ 5	9°24	13°53	23°49	17°28	11°44	3°32	25°36	11°12	3°R52	5° 2	27°26	n.a.	F 28
S 29	12 12 54	5° 0'22	21° 0	9°55	14°23	24° 3	17°24	11°51	3°30	25°37	11°13	3°50	4°59	27°33	n.a.	S 29
S 30	12 16 51	5°58'32	3♌ 5	10°30	14°52	24°18	17°21	11°58	3°28	25°39	11°15	3°47	4°56	27°40	n.a.	S 30
M31	12 20 47	6♈56'40	15♌26	11♓ 9	15♉19	24♋33	17♌18	12♉ 5	3♏26	25♒41	11♈16	3♊41	4♊52	27♊46	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s48	26n 2	3n 0	1s 4	3n34	12n 4	3n 6	25n45	3n45	16n28	1n33	12n53	1s53	12s41	0n25	14s30	1s 7	10s29	16s 3	21n39	21n38	25n11		n.a.
S 2	8 26	25 3	3 46	1 12	3 35	12 30	3 12	25 43	3 43	16 31	1 33	12 55	1 53	12 41	0 25	14 29	1 7	10 28	16 3	21 38	21 37	25 12		n.a.
M 3	8 3	22 52	4 23	1 24	3 34	12 55	3 17	25 41	3 41	16 33	1 33	12 57	1 53	12 40	0 25	14 28	1 7	10 27	16 2	21 37	21 37	25 13		n.a.
T 4	7 41	19 33	4 48	1 39	3 31	13 20	3 23	25 39	3 39	16 35	1 33	12 59	1 52	12 40	0 25	14 28	1 7	10 27	16 2	21 35	21 36	25 14		n.a.
W 5	7 18	15 16	5 0	1 58	3 27	13 45	3 28	25 37	3 36	16 37	1 33	13 1	1 52	12 39	0 25	14 27	1 7	10 26	16 2	21 32	21 36	25 15		n.a.
T 6	6 55	10 12	4 56	2 19	3 21	14 10	3 33	25 35	3 34	16 39	1 33	13 3	1 52	12 39	0 25	14 26	1 7	10 25	16 2	21 30	21 35	25 17		n.a.
F 7	6 33	4 34	4 36	2 44	3 14	14 34	3 39	25 32	3 32	16 41	1 33	13 5	1 52	12 39	0 25	14 25	1 7	10 25	16 2	21 28	21 35	25 18		n.a.
S 8	6 10	1s22	4 0	3 10	3 5	14 58	3 44	25 30	3 29	16 43	1 33	13 7	1 51	12 38	0 25	14 25	1 7	10 24	16 1	21 26	21 34	25 19		n.a.
S 9	5 47	7 19	3 10	3 38	2 54	15 21	3 49	25 27	3 27	16 45	1 33	13 9	1 51	12 38	0 25	14 24	1 7	10 24	16 1	21 25	21 34	25 20		n.a.
M10	5 24	13 0	2 8	4 7	2 42	15 44	3 54	25 25	3 25	16 47	1 33	13 11	1 51	12 37	0 25	14 23	1 7	10 23	16 1	21 24	21 33	25 21		n.a.
T 11	5 1	18 3	0 58	4 37	2 29	16 6	3 59	25 22	3 23	16 49	1 33	13 13	1 51	12 37	0 25	14 23	1 7	10 22	16 1	21 24	21 32	25 22		n.a.
W12	4 37	22 9	0s16	5 7	2 15	16 28	4 4	25 19	3 20	16 51	1 33	13 15	1 51	12 36	0 25	14 22	1 7	10 22	16 1	21 24	21 32	25 23		n.a.
T 13	4 14	24 57	1 29	5 37	2 0	16 50	4 9	25 16	3 18	16 52	1 32	13 17	1 50	12 36	0 25	14 21	1 7	10 21	16 1	21 24	21 31	25 24		n.a.
F 14	3 51	26 11	2 37	6 7	1 45	17 11	4 14	25 13	3 16	16 54	1 32	13 19	1 50	12 35	0 25	14 20	1 7	10 20	16 1	21 23	21 31	25 25		n.a.
S 15	3 27	25 41	3 36	6 35	1 29	17 31	4 19	25 9	3 14	16 56	1 32	13 21	1 50	12 35	0 25	14 20	1 7	10 20	16 0	21 23	21 30	25 26		n.a.
S 16	3 4	23 32	4 21	7 1	1 13	17 51	4 23	25 6	3 11	16 57	1 32	13 23	1 50	12 34	0 25	14 19	1 7	10 19	16 0	21 22	21 30	25 27		n.a.
M17	2 41	19 57	4 50	7 27	0 57	18 11	4 28	25 3	3 9	16 59	1 32	13 25	1 50	12 33	0 25	14 18	1 7	10 19	16 0	21 21	21 29	25 28		n.a.
T 18	2 17	15 15	5 2	7 50	0 41	18 30	4 33	24 59	3 7	17 0	1 32	13 27	1 49	12 33	0 25	14 18	1 7	10 18	16 0	21 19	21 29	25 29		n.a.
W19	1 54	9 50	4 55	8 11	0 25	18 48	4 37	24 55	3 5	17 2	1 32	13 30	1 49	12 32	0 25	14 17	1 7	10 17	16 0	21 17	21 28	25 30		n.a.
T 20	1 30	4 2	4 32	8 30	0 9	19 6	4 41	24 52	3 3	17 3	1 32	13 32	1 49	12 32	0 25	14 16	1 7	10 17	16 0	21 14	21 27	25 31		n.a.
F 21	1 7	1n49	3 54	8 47	0s 6	19 23	4 45	24 48	3 0	17 5	1 31	13 34	1 49	12 31	0 25	14 16	1 7	10 16	16 0	21 13	21 27	25 32		n.a.
S 22	0 43	7 28	3 5	9 1	0 20	19 40	4 49	24 44	2 58	17 6	1 31	13 36	1 49	12 30	0 25	14 15	1 7	10 16	16 0	21 11	21 26	25 33		n.a.
S 23	0 20	12 41	2 8	9 13	0 35	19 56	4 53	24 40	2 56	17 7	1 31	13 38	1 48	12 30	0 25	14 14	1 7	10 15	16 0	21 10	21 26	25 34		n.a.
M24	0n 4	17 16	1 6	9 23	0 48	20 12	4 57	24 36	2 54	17 8	1 31	13 41	1 48	12 29	0 25	14 14	1 7	10 14	15 59	21 10	21 25	25 35		n.a.
T 25	0 27	21 4	0 2	9 30	1 1	20 26	5 1	24 32	2 52	17 9	1 31	13 43	1 48	12 28	0 25	14 13	1 7	10 14	15 59	21 9	21 24	25 36		n.a.
W26	0 51	23 56	1n 2	9 34	1 13	20 41	5 4	24 27	2 50	17 11	1 31	13 45	1 48	12 28	0 25	14 13	1 7	10 13	15 59	21 10	21 24	25 37		n.a.
T 27	1 14	25 43	2 2	9 36	1 25	20 54	5 8	24 23	2 48	17 12	1 31	13 47	1 48	12 27	0 25	14 12	1 7	10 13	15 59	21 10	21 23	25 38		n.a.
F 28	1 37	26 20	2 57	9 36	1 36	21 7	5 11	24 18	2 46	17 13	1 30	13 50	1 47	12 26	0 25	14 11	1 7	10 12	15 59	21 10	21 23	25 39		n.a.
S 29	2 1	25 45	3 45	9 34	1 46	21 19	5 14	24 14	2 44	17 13	1 30	13 52	1 47	12 26	0 25	14 11	1 7	10 11	15 59	21 9	21 22	25 40		n.a.
S 30	2 24	23 57	4 23	9 29	1 55	21 30	5 16	24 9	2 42	17 14	1 30	13 54	1 47	12 25	0 25	14 10	1 7	10 11	15 59	21 9	21 22	25 41		n.a.
M31	2n47	21n 0	4n50	9s22	2s 4	21n41	5n19	24n 4	2n40	17n15	1n30	13n56	1s47	12s24	0n25	14s 9	1s 7	10s10	15s59	21n 8	21n21	25n42		n.a.

Julian Day Number = 1677652.5, Delta T = 03h17m10s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'14, Lahiri = - 5°36'13 Julian Calendar 1 March 120 BCE == Greg. Calendar 26 Feb. 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

APRIL 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 24 44	7♈54'45	28♌ 4	11♓52	15♉45	24♋49	17°R15	12♉12	3°R24	25♒43	11♈17	3°R33	4♊49	27♊53	n.a.	T 1
W 2	12 28 40	8°52'48	11♍ 3	12°38	16° 9	25° 6	17♌12	12°19	3♏21	25°45	11°19	3♊24	4°46	27°59	n.a.	W 2
T 3	12 32 37	9°50'50	24°22	13°28	16°31	25°23	17°10	12°26	3°19	25°46	11°20	3°15	4°43	28° 6	n.a.	T 3
F 4	12 36 33	10°48'50	8♎ 1	14°20	16°51	25°40	17° 7	12°33	3°17	25°48	11°21	3° 7	4°40	28°13	n.a.	F 4
S 5	12 40 30	11°46'48	21°55	15°17	17° 9	25°58	17° 5	12°40	3°15	25°50	11°23	3° 0	4°37	28°19	n.a.	S 5
S 6	12 44 26	12°44'44	6♏ 2	16°16	17°26	26°16	17° 3	12°47	3°13	25°52	11°24	2°55	4°33	28°26	n.a.	S 6
M 7	12 48 23	13°42'39	20°17	17°18	17°40	26°34	17° 1	12°55	3°10	25°53	11°25	2°52	4°30	28°33	n.a.	M 7
T 8	12 52 20	14°40'32	4♐35	18°23	17°52	26°53	17° 0	13° 2	3° 8	25°55	11°27	2°D51	4°27	28°39	n.a.	T 8
W 9	12 56 16	15°38'24	18°53	19°31	18° 2	27°12	16°58	13° 9	3° 6	25°57	11°28	2°52	4°24	28°46	n.a.	W 9
T 10	13 0 13	16°36'15	3♑ 8	20°41	18°10	27°32	16°57	13°16	3° 3	25°58	11°30	2°53	4°21	28°53	n.a.	T 10
F 11	13 4 9	17°34'04	17°18	21°54	18°16	27°52	16°56	13°24	3° 1	26° 0	11°31	2°R54	4°17	28°59	n.a.	F 11
S 12	13 8 6	18°31'53	1♒21	23°10	18°20	28°13	16°55	13°31	2°59	26° 1	11°32	2°53	4°14	29° 6	n.a.	S 12
S 13	13 12 2	19°29'40	15°17	24°28	18°R21	28°33	16°54	13°39	2°56	26° 3	11°34	2°51	4°11	29°13	n.a.	S 13
M14	13 15 59	20°27'25	29° 4	25°48	18°20	28°55	16°54	13°46	2°54	26° 4	11°35	2°46	4° 8	29°19	n.a.	M14
T 15	13 19 55	21°25'09	12♓41	27°11	18°17	29°16	16°54	13°54	2°51	26° 6	11°36	2°40	4° 5	29°26	n.a.	T 15
W16	13 23 52	22°22'52	26° 5	28°36	18°11	29°38	16°D53	14° 1	2°49	26° 7	11°38	2°34	4° 2	29°33	n.a.	W16
T 17	13 27 49	23°20'34	9♈16	0♈ 3	18° 2	0♌ 0	16°53	14° 9	2°46	26° 9	11°39	2°27	3°58	29°39	n.a.	T 17
F 18	13 31 45	24°18'14	22°11	1°33	17°52	0°23	16°54	14°16	2°44	26°10	11°40	2°21	3°55	29°46	n.a.	F 18
S 19	13 35 42	25°15'53	4♉52	3° 5	17°39	0°46	16°54	14°24	2°42	26°11	11°42	2°17	3°52	29°53	n.a.	S 19
S 20	13 39 38	26°13'31	17°17	4°39	17°23	1° 9	16°54	14°31	2°39	26°13	11°43	2°14	3°49	29°59	n.a.	S 20
M21	13 43 35	27°11'07	29°29	6°15	17° 5	1°32	16°55	14°39	2°37	26°14	11°44	2°D13	3°46	0♋ 6	n.a.	M21
T 22	13 47 31	28° 8'42	11♊30	7°54	16°45	1°56	16°56	14°47	2°34	26°15	11°46	2°13	3°42	0°13	n.a.	T 22
W23	13 51 28	29° 6'15	23°24	9°35	16°23	2°20	16°57	14°54	2°32	26°17	11°47	2°15	3°39	0°19	n.a.	W23
T 24	13 55 24	0♉ 3'47	5♋13	11°18	15°58	2°45	16°58	15° 2	2°29	26°18	11°48	2°16	3°36	0°26	n.a.	T 24
F 25	13 59 21	1° 1'17	17° 2	13° 3	15°32	3°10	17° 0	15°10	2°27	26°19	11°50	2°18	3°33	0°33	n.a.	F 25
S 26	14 3 18	1°58'46	28°58	14°51	15° 3	3°35	17° 2	15°17	2°24	26°20	11°51	2°R19	3°30	0°39	n.a.	S 26
S 27	14 7 14	2°56'14	11♌ 3	16°40	14°33	4° 0	17° 3	15°25	2°22	26°22	11°52	2°18	3°27	0°46	n.a.	S 27
M28	14 11 11	3°53'40	23°24	18°32	14° 0	4°25	17° 5	15°33	2°19	26°23	11°54	2°17	3°23	0°53	n.a.	M28
T 29	14 15 7	4°51'04	6♍ 4	20°26	13°27	4°51	17° 8	15°41	2°17	26°24	11°55	2°14	3°20	0°59	n.a.	T 29
W30	14 19 4	5♉48'28	19♍ 6	22♈22	12♉52	5♌17	17♌10	15♉49	2♏14	26♒25	11♈56	2♊11	3♊17	1♋ 6	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n10	17n 1	5n 4	9s13	2s12	21n51	5n21	24n 0	2n38	17n16	1n30	13n59	1s47	12s23	0n25	14s 9	1s 7	10s10	15s59	21n 6	21n20	25n43		n.a.
W 2	3 34	12 10	5 3	9 2	2 19	22 0	5 23	23 55	2 36	17 16	1 30	14 1	1 47	12 23	0 25	14 8	1 7	10 9	15 59	21 4	21 20	25 44		n.a.
T 3	3 57	6 37	4 45	8 49	2 26	22 8	5 25	23 50	2 34	17 17	1 29	14 3	1 46	12 22	0 25	14 8	1 7	10 9	15 59	21 3	21 19	25 45		n.a.
F 4	4 20	0 38	4 11	8 33	2 31	22 16	5 26	23 44	2 32	17 18	1 29	14 6	1 46	12 21	0 25	14 7	1 8	10 8	15 59	21 1	21 19	25 46		n.a.
S 5	4 43	5s31	3 22	8 16	2 36	22 22	5 27	23 39	2 30	17 18	1 29	14 8	1 46	12 20	0 25	14 7	1 8	10 8	15 59	21 0	21 18	25 46		n.a.
S 6	5 5	11 30	2 19	7 57	2 41	22 28	5 28	23 34	2 28	17 19	1 29	14 10	1 46	12 20	0 25	14 6	1 8	10 7	15 59	20 59	21 18	25 47		n.a.
M 7	5 28	16 56	1 7	7 36	2 45	22 32	5 29	23 28	2 26	17 19	1 29	14 13	1 46	12 19	0 25	14 6	1 8	10 6	15 59	20 58	21 17	25 48		n.a.
T 8	5 51	21 27	0s 9	7 13	2 48	22 36	5 29	23 23	2 25	17 19	1 28	14 15	1 46	12 18	0 25	14 5	1 8	10 6	15 59	20 58	21 16	25 49		n.a.
W 9	6 13	24 39	1 25	6 48	2 50	22 39	5 29	23 17	2 23	17 20	1 28	14 17	1 46	12 17	0 25	14 4	1 8	10 5	15 59	20 58	21 16	25 50		n.a.
T 10	6 36	26 16	2 36	6 21	2 52	22 41	5 28	23 11	2 21	17 20	1 28	14 20	1 45	12 16	0 25	14 4	1 8	10 5	15 59	20 58	21 15	25 51		n.a.
F 11	6 58	26 10	3 37	5 53	2 53	22 42	5 27	23 6	2 19	17 20	1 28	14 22	1 45	12 16	0 25	14 3	1 8	10 4	15 59	20 59	21 15	25 52		n.a.
S 12	7 21	24 22	4 24	5 23	2 53	22 41	5 26	23 0	2 17	17 20	1 28	14 24	1 45	12 15	0 25	14 3	1 8	10 4	15 59	20 58	21 14	25 53		n.a.
S 13	7 43	21 7	4 55	4 52	2 53	22 40	5 24	22 54	2 16	17 20	1 27	14 27	1 45	12 14	0 25	14 2	1 8	10 3	15 59	20 58	21 13	25 53		n.a.
M14	8 5	16 44	5 9	4 19	2 52	22 37	5 22	22 47	2 14	17 20	1 27	14 29	1 45	12 13	0 25	14 2	1 8	10 3	15 59	20 57	21 13	25 54		n.a.
T 15	8 27	11 33	5 5	3 44	2 51	22 34	5 19	22 41	2 12	17 20	1 27	14 31	1 45	12 12	0 25	14 2	1 8	10 2	15 59	20 56	21 12	25 55		n.a.
W16	8 48	5 54	4 44	3 8	2 48	22 29	5 16	22 35	2 10	17 20	1 27	14 34	1 45	12 11	0 25	14 1	1 8	10 2	15 59	20 55	21 12	25 56		n.a.
T 17	9 10	0 5	4 8	2 30	2 46	22 23	5 12	22 28	2 9	17 20	1 27	14 36	1 44	12 11	0 25	14 1	1 8	10 1	15 59	20 53	21 11	25 57		n.a.
F 18	9 32	5n38	3 20	1 51	2 42	22 16	5 8	22 22	2 7	17 19	1 26	14 39	1 44	12 10	0 25	14 0	1 8	10 1	15 59	20 52	21 10	25 58		n.a.
S 19	9 53	11 2	2 23	1 11	2 39	22 7	5 3	22 15	2 5	17 19	1 26	14 41	1 44	12 9	0 25	14 0	1 8	10 0	15 59	20 51	21 10	25 58		n.a.
S 20	10 14	15 54	1 21	0 29	2 34	21 57	4 57	22 8	2 4	17 19	1 26	14 43	1 44	12 8	0 25	13 59	1 8	10 0	15 59	20 51	21 9	25 59		n.a.
M21	10 35	20 2	0 15	0n14	2 29	21 46	4 51	22 1	2 2	17 18	1 26	14 46	1 44	12 7	0 25	13 59	1 8	10 0	15 59	20 50	21 9	26 0		n.a.
T 22	10 56	23 15	0n51	0 58	2 24	21 34	4 45	21 54	2 0	17 18	1 26	14 48	1 44	12 6	0 25	13 58	1 8	9 59	15 59	20 50	21 8	26 1		n.a.
W23	11 17	25 26	1 53	1 44	2 18	21 21	4 37	21 47	1 59	17 17	1 25	14 50	1 44	12 6	0 25	13 58	1 8	9 59	15 59	20 51	21 7	26 1		n.a.
T 24	11 37	26 27	2 51	2 31	2 11	21 6	4 30	21 40	1 57	17 17	1 25	14 53	1 44	12 5	0 25	13 58	1 8	9 58	15 59	20 51	21 7	26 2		n.a.
F 25	11 58	26 16	3 41	3 19	2 4	20 50	4 21	21 33	1 56	17 16	1 25	14 55	1 44	12 4	0 25	13 57	1 8	9 58	16 0	20 51	21 6	26 3		n.a.
S 26	12 18	24 52	4 22	4 8	1 56	20 32	4 12	21 25	1 54	17 15	1 25	14 57	1 43	12 3	0 25	13 57	1 8	9 57	16 0	20 52	21 5	26 4		n.a.
S 27	12 38	22 20	4 53	4 58	1 48	20 14	4 2	21 18	1 52	17 15	1 25	15 0	1 43	12 2	0 25	13 57	1 8	9 57	16 0	20 51	21 5	26 5		n.a.
M28	12 58	18 44	5 10	5 49	1 40	19 55	3 52	21 10	1 51	17 14	1 24	15 2	1 43	12 1	0 25	13 56	1 9	9 57	16 0	20 51	21 4	26 5		n.a.
T 29	13 17	14 14	5 13	6 40	1 31	19 34	3 41	21 2	1 49	17 13	1 24	15 5	1 43	12 0	0 25	13 56	1 9	9 56	16 0	20 51	21 4	26 6		n.a.
W30	13n36	8n57	5n 0	7n33	1s22	19n12	3n30	20n54	1n48	17n12	1n24	15n 7	1s43	12s 0	0n25	13s56	1s 9	9s56	16s 0	20n50	21n 3	26n 7		n.a.

Julian Day Number = 1677683.5, Delta T = 03h17m09s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'09, Lahiri = - 5°36'09 Julian Calendar 1 Apr. 120 BCE == Greg. Calendar 29 March 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

MAY 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 23 0	6♉45'50	2♎32	24♈20	12°R16	5♌44	17♌12	15♉56	2°R12	26♒26	11♈57	2°R 7	3♊14	1♋13	n.a.	T 1
F 2	14 26 57	7°43'10	16°21	26°20	11♉39	6°10	17°15	16° 4	2♏ 9	26°27	11°59	2♊ 4	3°11	1°19	n.a.	F 2
S 3	14 30 53	8°40'30	0♏32	28°22	11° 2	6°37	17°18	16°12	2° 7	26°28	12° 0	2° 1	3° 8	1°26	n.a.	S 3
S 4	14 34 50	9°37'49	15° 0	0♊26	10°24	7° 4	17°21	16°20	2° 4	26°29	12° 1	1°59	3° 4	1°33	n.a.	S 4
M 5	14 38 47	10°35'07	29°40	2°32	9°46	7°31	17°24	16°28	2° 2	26°30	12° 2	1°D58	3° 1	1°39	n.a.	M 5
T 6	14 42 43	11°32'24	14♐23	4°39	9° 9	7°59	17°27	16°36	1°59	26°31	12° 4	1°58	2°58	1°46	n.a.	T 6
W 7	14 46 40	12°29'41	29° 5	6°47	8°31	8°27	17°31	16°43	1°57	26°32	12° 5	1°59	2°55	1°53	n.a.	W 7
T 8	14 50 36	13°26'57	13♑39	8°57	7°55	8°55	17°35	16°51	1°54	26°32	12° 6	2° 1	2°52	1°59	n.a.	T 8
F 9	14 54 33	14°24'12	28° 1	11° 7	7°19	9°23	17°38	16°59	1°52	26°33	12° 7	2° 2	2°48	2° 6	n.a.	F 9
S 10	14 58 29	15°21'27	12♒ 8	13°19	6°44	9°51	17°43	17° 7	1°50	26°34	12° 8	2°R 2	2°45	2°13	n.a.	S 10
S 11	15 2 26	16°18'41	26° 0	15°30	6°10	10°20	17°47	17°15	1°47	26°35	12°10	2° 2	2°42	2°19	n.a.	S 11
M12	15 6 22	17°15'55	9♓35	17°42	5°38	10°49	17°51	17°23	1°45	26°35	12°11	2° 1	2°39	2°26	n.a.	M12
T 13	15 10 19	18°13'09	22°53	19°54	5° 8	11°18	17°55	17°31	1°42	26°36	12°12	2° 0	2°36	2°33	n.a.	T 13
W14	15 14 16	19°10'22	5♈56	22° 5	4°39	11°47	18° 0	17°39	1°40	26°37	12°13	1°58	2°33	2°39	n.a.	W14
T 15	15 18 12	20° 7'34	18°45	24°16	4°12	12°17	18° 5	17°46	1°38	26°37	12°14	1°56	2°29	2°46	n.a.	T 15
F 16	15 22 9	21° 4'47	1♉19	26°25	3°48	12°46	18°10	17°54	1°35	26°38	12°15	1°55	2°26	2°53	n.a.	F 16
S 17	15 26 5	22° 1'58	13°42	28°34	3°25	13°16	18°15	18° 2	1°33	26°38	12°16	1°54	2°23	2°59	n.a.	S 17
S 18	15 30 2	22°59'10	25°54	0♊41	3° 5	13°46	18°20	18°10	1°31	26°39	12°17	1°54	2°20	3° 6	n.a.	S 18
M19	15 33 58	23°56'21	7♊56	2°47	2°47	14°17	18°26	18°18	1°29	26°39	12°19	1°D54	2°17	3°13	n.a.	M19
T 20	15 37 55	24°53'31	19°51	4°51	2°31	14°47	18°31	18°26	1°26	26°40	12°20	1°54	2°14	3°19	n.a.	T 20
W21	15 41 51	25°50'41	1♋42	6°53	2°18	15°18	18°37	18°34	1°24	26°40	12°21	1°54	2°10	3°26	n.a.	W21
T 22	15 45 48	26°47'51	13°30	8°54	2° 7	15°48	18°43	18°42	1°22	26°41	12°22	1°55	2° 7	3°33	n.a.	T 22
F 23	15 49 45	27°44'59	25°20	10°52	1°58	16°19	18°49	18°49	1°20	26°41	12°23	1°56	2° 4	3°39	n.a.	F 23
S 24	15 53 41	28°42'08	7♌15	12°49	1°52	16°51	18°55	18°57	1°18	26°41	12°24	1°56	2° 1	3°46	n.a.	S 24
S 25	15 57 38	29°39'16	19°20	14°43	1°48	17°22	19° 1	19° 5	1°16	26°42	12°25	1°56	1°58	3°53	n.a.	S 25
M26	16 1 34	0♊36'23	1♍39	16°35	1°D47	17°54	19° 7	19°13	1°14	26°42	12°26	1°R56	1°54	3°59	n.a.	M26
T 27	16 5 31	1°33'29	14°16	18°25	1°47	18°25	19°14	19°21	1°12	26°42	12°27	1°D56	1°51	4° 6	n.a.	T 27
W28	16 9 27	2°30'36	27°15	20°13	1°51	18°57	19°21	19°28	1°10	26°42	12°28	1°56	1°48	4°13	n.a.	W28
T 29	16 13 24	3°27'41	10♎40	21°59	1°56	19°29	19°27	19°36	1° 8	26°43	12°29	1°56	1°45	4°19	n.a.	T 29
F 30	16 17 20	4°24'47	24°30	23°43	2° 3	20° 1	19°34	19°44	1° 6	26°43	12°29	1°56	1°42	4°26	n.a.	F 30
S 31	16 21 17	5♊21'52	8♏46	25♊24	2♉13	20♌34	19♌42	19♉51	1♏ 4	26♒43	12♈30	1♊57	1♊39	4♋33	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n56	3n 7	4n31	8n26	1s12	18n50	3n18	20n46	1n46	17n11	1n24	15n 9	1s43	11s59	0n25	13s55	1s 9	9s55	16s 0	20n49	21n 2	26n 7			n.a.
F 2	14 15	3s 3	3 45	9 19	1 2	18 27	3 6	20 38	1 45	17 10	1 24	15 12	1 43	11 58	0 25	13 55	1 9	9 55	16 0	20 49	21 2	26 8			n.a.
S 3	14 33	9 13	2 45	10 13	0 52	18 3	2 53	20 30	1 43	17 9	1 23	15 14	1 43	11 57	0 25	13 55	1 9	9 55	16 0	20 48	21 1	26 9			n.a.
S 4	14 52	15 3	1 32	11 7	0 41	17 39	2 40	20 21	1 42	17 8	1 23	15 16	1 43	11 56	0 25	13 54	1 9	9 54	16 1	20 48	21 1	26 10			n.a.
M 5	15 10	20 6	0 13	12 0	0 31	17 14	2 27	20 13	1 40	17 7	1 23	15 19	1 43	11 55	0 25	13 54	1 9	9 54	16 1	20 47	21 0	26 10			n.a.
T 6	15 28	23 55	1s 8	12 54	0 20	16 49	2 13	20 4	1 39	17 5	1 23	15 21	1 43	11 54	0 25	13 54	1 9	9 54	16 1	20 47	20 59	26 11			n.a.
W 7	15 46	26 7	2 24	13 47	0 9	16 23	2 0	19 56	1 38	17 4	1 23	15 23	1 42	11 54	0 25	13 54	1 9	9 53	16 1	20 48	20 59	26 12			n.a.
T 8	16 3	26 29	3 30	14 40	0n 1	15 58	1 46	19 47	1 36	17 3	1 22	15 26	1 42	11 53	0 25	13 53	1 9	9 53	16 1	20 48	20 58	26 12			n.a.
F 9	16 20	25 4	4 22	15 32	0 12	15 33	1 32	19 38	1 35	17 1	1 22	15 28	1 42	11 52	0 25	13 53	1 9	9 53	16 1	20 48	20 57	26 13			n.a.
S 10	16 37	22 6	4 57	16 22	0 22	15 8	1 18	19 29	1 33	17 0	1 22	15 30	1 42	11 51	0 25	13 53	1 9	9 52	16 1	20 48	20 57	26 14			n.a.
S 11	16 54	17 55	5 14	17 11	0 33	14 44	1 3	19 19	1 32	16 58	1 22	15 33	1 42	11 50	0 25	13 53	1 9	9 52	16 2	20 48	20 56	26 14			n.a.
M12	17 11	12 53	5 13	17 59	0 43	14 20	0 49	19 10	1 31	16 57	1 22	15 35	1 42	11 49	0 25	13 52	1 9	9 52	16 2	20 48	20 56	26 15			n.a.
T 13	17 27	7 22	4 55	18 45	0 52	13 56	0 36	19 1	1 29	16 55	1 21	15 37	1 42	11 49	0 25	13 52	1 9	9 51	16 2	20 48	20 55	26 16			n.a.
W14	17 43	1 38	4 22	19 29	1 1	13 34	0 22	18 51	1 28	16 54	1 21	15 39	1 42	11 48	0 25	13 52	1 9	9 51	16 2	20 47	20 54	26 16			n.a.
T 15	17 59	4n 5	3 37	20 10	1 10	13 12	0 8	18 42	1 27	16 52	1 21	15 42	1 42	11 47	0 25	13 52	1 9	9 51	16 2	20 47	20 54	26 17			n.a.
F 16	18 14	9 33	2 41	20 50	1 18	12 51	0s 5	18 32	1 25	16 50	1 21	15 44	1 42	11 46	0 25	13 52	1 9	9 51	16 2	20 47	20 53	26 17			n.a.
S 17	18 29	14 33	1 39	21 27	1 25	12 31	0 18	18 22	1 24	16 48	1 21	15 46	1 42	11 45	0 25	13 52	1 9	9 50	16 3	20 47	20 52	26 18			n.a.
S 18	18 44	18 55	0 33	22 1	1 32	12 12	0 30	18 12	1 23	16 47	1 20	15 48	1 42	11 45	0 25	13 51	1 9	9 50	16 3	20 46	20 52	26 19			n.a.
M19	18 58	22 26	0n33	22 33	1 38	11 54	0 43	18 2	1 21	16 45	1 20	15 51	1 42	11 44	0 25	13 51	1 10	9 50	16 3	20 46	20 51	26 19			n.a.
T 20	19 12	24 57	1 38	23 2	1 43	11 38	0 55	17 51	1 20	16 43	1 20	15 53	1 42	11 43	0 25	13 51	1 10	9 50	16 3	20 47	20 51	26 20			n.a.
W21	19 26	26 20	2 38	23 29	1 48	11 22	1 6	17 41	1 19	16 41	1 20	15 55	1 42	11 42	0 25	13 51	1 10	9 49	16 3	20 47	20 50	26 20			n.a.
T 22	19 40	26 31	3 31	23 53	1 52	11 8	1 17	17 31	1 17	16 39	1 20	15 57	1 42	11 42	0 25	13 51	1 10	9 49	16 4	20 47	20 49	26 21			n.a.
F 23	19 53	25 29	4 15	24 14	1 55	10 55	1 28	17 20	1 16	16 37	1 19	15 59	1 42	11 41	0 25	13 51	1 10	9 49	16 4	20 47	20 49	26 22			n.a.
S 24	20 6	23 19	4 49	24 33	1 58	10 43	1 38	17 9	1 15	16 35	1 19	16 2	1 42	11 40	0 25	13 51	1 10	9 49	16 4	20 47	20 48	26 22			n.a.
S 25	20 18	20 5	5 10	24 49	2 0	10 33	1 48	16 58	1 14	16 32	1 19	16 4	1 42	11 39	0 25	13 51	1 10	9 49	16 4	20 47	20 47	26 23			n.a.
M26	20 31	15 56	5 17	25 2	2 1	10 23	1 58	16 47	1 12	16 30	1 19	16 6	1 41	11 39	0 25	13 51	1 10	9 49	16 4	20 47	20 47	26 23			n.a.
T 27	20 42	11 1	5 10	25 13	2 2	10 15	2 7	16 36	1 11	16 28	1 19	16 8	1 41	11 38	0 25	13 51	1 10	9 48	16 5	20 47	20 46	26 24			n.a.
W28	20 54	5 29	4 47	25 22	2 2	10 8	2 15	16 25	1 10	16 26	1 19	16 10	1 41	11 37	0 25	13 51	1 10	9 48	16 5	20 47	20 45	26 24			n.a.
T 29	21 5	0s28	4 8	25 28	2 1	10 2	2 24	16 14	1 9	16 23	1 18	16 12	1 41	11 37	0 25	13 51	1 10	9 48	16 5	20 47	20 45	26 25			n.a.
F 30	21 16	6 36	3 13	25 33	1 59	9 57	2 31	16 2	1 8	16 21	1 18	16 14	1 41	11 36	0 25	13 51	1 10	9 48	16 5	20 47	20 44	26 25			n.a.
S 31	21n26	12s36	2n 5	25n35	1n57	9n54	2s39	15n51	1n 6	16n19	1n18	16n17	1s41	11s35	0n25	13s51	1s10	9s48	16s 6	20n47	20n43	26n26			n.a.

Julian Day Number = 1677713.5, Delta T = 03h17m08s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'05, Lahiri = - 5°36'05 Julian Calendar 1 May 120 BCE == Greg. Calendar 28 Apr. 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

JUNE 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 25 14	6♊18'57	23♏24	27♊ 3	2♉25	21♌ 6	19♌49	19♉59	1°R 2	26♒43	12♈31	1♊57	1♊35	4♋39	n.a.	S 1
M 2	16 29 10	7°16'02	8♐18	28°40	2°39	21°39	19°56	20° 7	1♏ 0	26°43	12°32	1°R57	1°32	4°46	n.a.	M 2
T 3	16 33 7	8°13'08	23°22	0♋15	2°54	22°11	20° 3	20°14	0°58	26°R43	12°33	1°57	1°29	4°53	n.a.	T 3
W 4	16 37 3	9°10'13	8♑26	1°47	3°12	22°44	20°11	20°22	0°56	26°43	12°34	1°56	1°26	4°59	n.a.	W 4
T 5	16 41 0	10° 7'19	23°21	3°17	3°31	23°17	20°19	20°30	0°55	26°43	12°35	1°55	1°23	5° 6	n.a.	T 5
F 6	16 44 56	11° 4'24	8♒ 1	4°45	3°53	23°51	20°27	20°37	0°53	26°43	12°35	1°54	1°20	5°13	n.a.	F 6
S 7	16 48 53	12° 1'31	22°20	6°11	4°16	24°24	20°35	20°45	0°51	26°43	12°36	1°54	1°16	5°19	n.a.	S 7
S 8	16 52 50	12°58'37	6♓16	7°35	4°41	24°57	20°43	20°52	0°50	26°42	12°37	1°53	1°13	5°26	n.a.	S 8
M 9	16 56 46	13°55'45	19°48	8°56	5° 7	25°31	20°51	21° 0	0°48	26°42	12°38	1°D53	1°10	5°33	n.a.	M 9
T 10	17 0 43	14°52'52	2♈58	10°14	5°35	26° 5	20°59	21° 7	0°46	26°42	12°38	1°54	1° 7	5°39	n.a.	T 10
W11	17 4 39	15°50'00	15°49	11°31	6° 4	26°39	21° 7	21°15	0°45	26°42	12°39	1°54	1° 4	5°46	n.a.	W11
T 12	17 8 36	16°47'09	28°22	12°44	6°35	27°13	21°16	21°22	0°43	26°41	12°40	1°56	1° 0	5°53	n.a.	T 12
F 13	17 12 32	17°44'19	10♉41	13°56	7° 7	27°47	21°25	21°29	0°42	26°41	12°41	1°57	0°57	5°59	n.a.	F 13
S 14	17 16 29	18°41'29	22°50	15° 4	7°41	28°21	21°33	21°37	0°41	26°41	12°41	1°58	0°54	6° 6	n.a.	S 14
S 15	17 20 25	19°38'39	4♊49	16°10	8°16	28°56	21°42	21°44	0°39	26°40	12°42	1°R58	0°51	6°13	n.a.	S 15
M16	17 24 22	20°35'51	16°43	17°13	8°52	29°31	21°51	21°51	0°38	26°40	12°42	1°57	0°48	6°19	n.a.	M16
T 17	17 28 19	21°33'02	28°34	18°14	9°29	0♍ 5	22° 0	21°59	0°37	26°39	12°43	1°56	0°45	6°26	n.a.	T 17
W18	17 32 15	22°30'15	10♋22	19°11	10° 8	0°40	22° 9	22° 6	0°35	26°39	12°44	1°53	0°41	6°33	n.a.	W18
T 19	17 36 12	23°27'27	22°11	20° 5	10°47	1°15	22°19	22°13	0°34	26°38	12°44	1°50	0°38	6°39	n.a.	T 19
F 20	17 40 8	24°24'40	4♌ 4	20°56	11°28	1°50	22°28	22°20	0°33	26°38	12°45	1°46	0°35	6°46	n.a.	F 20
S 21	17 44 5	25°21'54	16° 1	21°44	12° 9	2°26	22°37	22°27	0°32	26°37	12°45	1°43	0°32	6°53	n.a.	S 21
S 22	17 48 1	26°19'08	28° 8	22°28	12°52	3° 1	22°47	22°34	0°31	26°37	12°46	1°40	0°29	6°59	n.a.	S 22
M23	17 51 58	27°16'22	10♍27	23° 8	13°35	3°36	22°57	22°41	0°30	26°36	12°46	1°37	0°26	7° 6	n.a.	M23
T 24	17 55 55	28°13'37	23° 1	23°45	14°20	4°12	23° 6	22°48	0°29	26°35	12°47	1°D36	0°22	7°13	n.a.	T 24
W25	17 59 51	29°10'53	5♎56	24°17	15° 5	4°48	23°16	22°55	0°28	26°35	12°47	1°36	0°19	7°19	n.a.	W25
T 26	18 3 48	0♋ 8'08	19°13	24°46	15°51	5°24	23°26	23° 2	0°27	26°34	12°48	1°37	0°16	7°26	n.a.	T 26
F 27	18 7 44	1° 5'25	2♏56	25°10	16°38	6° 0	23°36	23° 9	0°26	26°33	12°48	1°39	0°13	7°33	n.a.	F 27
S 28	18 11 41	2° 2'42	17° 5	25°30	17°26	6°36	23°46	23°15	0°26	26°33	12°48	1°40	0°10	7°39	n.a.	S 28
S 29	18 15 37	3° 0'00	1♐40	25°45	18°14	7°12	23°56	23°22	0°25	26°32	12°49	1°R41	0° 6	7°46	n.a.	S 29
M30	18 19 34	3♋57'18	16♐36	25♋55	19♉ 3	7♍48	24♌ 7	23♉29	0♏24	26♒31	12♈49	1♊40	0♊ 3	7♋53	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n36	18s 4	0n47	25n35	1n54	9n51	2s46	15n39	1n 5	16n16	1n18	16n19	1s41	11s35	0n25	13s51	1s10	9s48	16s 6	20n47	20n43	26n26		n.a.
M 2	21 46	22 31	0s35	25 33	1 51	9 50	2 52	15 27	1 4	16 14	1 18	16 21	1 41	11 34	0 25	13 51	1 10	9 48	16 6	20 47	20 42	26 27		n.a.
T 3	21 56	25 29	1 56	25 30	1 47	9 50	2 58	15 16	1 3	16 11	1 18	16 23	1 41	11 33	0 25	13 51	1 10	9 47	16 6	20 47	20 41	26 27		n.a.
W 4	22 5	26 35	3 9	25 24	1 42	9 50	3 4	15 4	1 2	16 9	1 17	16 25	1 41	11 33	0 25	13 51	1 10	9 47	16 7	20 47	20 41	26 28		n.a.
T 5	22 13	25 44	4 8	25 17	1 37	9 52	3 10	14 52	1 0	16 6	1 17	16 27	1 41	11 32	0 25	13 51	1 10	9 47	16 7	20 47	20 40	26 28		n.a.
F 6	22 21	23 8	4 50	25 9	1 31	9 54	3 15	14 39	0 59	16 3	1 17	16 29	1 41	11 32	0 25	13 51	1 10	9 47	16 7	20 47	20 40	26 29		n.a.
S 7	22 29	19 8	5 13	24 59	1 25	9 57	3 20	14 27	0 58	16 0	1 17	16 31	1 41	11 31	0 25	13 51	1 10	9 47	16 7	20 46	20 39	26 29		n.a.
S 8	22 37	14 12	5 16	24 48	1 18	10 2	3 24	14 15	0 57	15 58	1 17	16 33	1 41	11 31	0 25	13 51	1 10	9 47	16 8	20 46	20 38	26 30		n.a.
M 9	22 44	8 42	5 2	24 35	1 11	10 6	3 28	14 2	0 56	15 55	1 17	16 35	1 41	11 30	0 25	13 51	1 11	9 47	16 8	20 46	20 38	26 30		n.a.
T 10	22 51	2 57	4 32	24 22	1 3	10 12	3 32	13 49	0 55	15 52	1 16	16 37	1 41	11 29	0 24	13 52	1 11	9 47	16 8	20 46	20 37	26 30		n.a.
W11	22 57	2n47	3 49	24 7	0 55	10 19	3 35	13 37	0 54	15 49	1 16	16 39	1 41	11 29	0 24	13 52	1 11	9 47	16 8	20 47	20 36	26 31		n.a.
T 12	23 3	8 17	2 55	23 51	0 46	10 26	3 38	13 24	0 53	15 46	1 16	16 41	1 41	11 28	0 24	13 52	1 11	9 47	16 9	20 47	20 36	26 31		n.a.
F 13	23 8	13 23	1 55	23 35	0 37	10 34	3 41	13 11	0 51	15 43	1 16	16 43	1 41	11 28	0 24	13 52	1 11	9 47	16 9	20 47	20 35	26 32		n.a.
S 14	23 13	17 53	0 50	23 18	0 27	10 42	3 44	12 58	0 50	15 40	1 16	16 45	1 41	11 28	0 24	13 52	1 11	9 47	16 9	20 47	20 34	26 32		n.a.
S 15	23 18	21 36	0n16	23 0	0 17	10 51	3 46	12 45	0 49	15 37	1 16	16 46	1 41	11 27	0 24	13 52	1 11	9 47	16 10	20 47	20 34	26 33		n.a.
M16	23 22	24 23	1 21	22 42	0 6	11 1	3 48	12 31	0 48	15 34	1 15	16 48	1 41	11 27	0 24	13 52	1 11	9 47	16 10	20 47	20 33	26 33		n.a.
T 17	23 26	26 4	2 22	22 23	0s 5	11 11	3 50	12 18	0 47	15 31	1 15	16 50	1 41	11 26	0 24	13 53	1 11	9 47	16 10	20 47	20 32	26 33		n.a.
W18	23 30	26 34	3 16	22 4	0 16	11 21	3 52	12 5	0 46	15 28	1 15	16 52	1 41	11 26	0 24	13 53	1 11	9 47	16 10	20 46	20 32	26 34		n.a.
T 19	23 33	25 51	4 2	21 44	0 28	11 32	3 53	11 51	0 45	15 25	1 15	16 54	1 41	11 25	0 24	13 53	1 11	9 47	16 11	20 46	20 31	26 34		n.a.
F 20	23 35	23 58	4 38	21 24	0 40	11 44	3 54	11 37	0 44	15 22	1 15	16 56	1 41	11 25	0 24	13 53	1 11	9 47	16 11	20 45	20 30	26 34		n.a.
S 21	23 38	21 1	5 2	21 5	0 52	11 56	3 55	11 24	0 43	15 18	1 15	16 57	1 41	11 25	0 24	13 54	1 11	9 47	16 11	20 44	20 30	26 35		n.a.
S 22	23 40	17 9	5 13	20 45	1 5	12 8	3 56	11 10	0 42	15 15	1 15	16 59	1 41	11 24	0 24	13 54	1 11	9 47	16 12	20 44	20 29	26 35		n.a.
M23	23 41	12 30	5 10	20 26	1 17	12 21	3 56	10 56	0 41	15 12	1 15	17 1	1 42	11 24	0 24	13 54	1 11	9 47	16 12	20 43	20 28	26 36		n.a.
T 24	23 42	7 16	4 52	20 7	1 31	12 34	3 56	10 42	0 40	15 8	1 14	17 3	1 42	11 24	0 24	13 54	1 11	9 48	16 12	20 43	20 28	26 36		n.a.
W25	23 42	1 35	4 20	19 48	1 44	12 47	3 56	10 27	0 39	15 5	1 14	17 4	1 42	11 23	0 24	13 55	1 11	9 48	16 13	20 43	20 27	26 36		n.a.
T 26	23 43	4s20	3 32	19 30	1 57	13 0	3 56	10 13	0 38	15 2	1 14	17 6	1 42	11 23	0 24	13 55	1 11	9 48	16 13	20 43	20 26	26 36		n.a.
F 27	23 42	10 16	2 31	19 12	2 11	13 14	3 56	9 59	0 37	14 58	1 14	17 8	1 42	11 23	0 24	13 55	1 11	9 48	16 13	20 43	20 26	26 37		n.a.
S 28	23 42	15 52	1 19	18 55	2 24	13 28	3 55	9 44	0 36	14 55	1 14	17 9	1 42	11 23	0 24	13 56	1 11	9 48	16 13	20 44	20 25	26 37		n.a.
S 29	23 41	20 44	0 0	18 39	2 38	13 42	3 55	9 30	0 35	14 51	1 14	17 11	1 42	11 22	0 24	13 56	1 11	9 48	16 14	20 44	20 24	26 37		n.a.
M30	23n39	24s22	1s21	18n24	2s51	13n56	3s54	9n15	0n34	14n47	1n14	17n13	1s42	11s22	0n24	13s56	1s12	9s48	16s14	20n44	20n24	26n38		n.a.

Julian Day Number = 1677744.5, Delta T = 03h17m08s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°43'01, Lahiri = - 5°36'01 Julian Calendar 1 June 120 BCE == Greg. Calendar 29 May 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

JULY 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 23 30	4♋54'37	1♉47	26♋ 0	19♉53	8♍25	24♌17	23♉35	0°R24	26°R30	12♈50	1°R38	0♊ 0	7♋59	n.a.	T 1
W 2	18 27 27	5°51'58	17° 2	26°R 0	20°44	9° 1	24°28	23°42	0♏23	26♒29	12°50	1♊34	29♉57	8° 6	n.a.	W 2
T 3	18 31 24	6°49'19	2♒12	25°55	21°35	9°38	24°38	23°49	0°23	26°28	12°50	1°29	29°54	8°13	n.a.	T 3
F 4	18 35 20	7°46'42	17° 8	25°45	22°27	10°15	24°49	23°55	0°22	26°27	12°50	1°24	29°51	8°19	n.a.	F 4
S 5	18 39 17	8°44'05	1♓40	25°29	23°20	10°51	24°59	24° 1	0°22	26°26	12°51	1°20	29°47	8°26	n.a.	S 5
S 6	18 43 13	9°41'31	15°46	25° 9	24°13	11°28	25°10	24° 8	0°21	26°25	12°51	1°16	29°44	8°33	n.a.	S 6
M 7	18 47 10	10°38'57	29°23	24°43	25° 6	12° 6	25°21	24°14	0°21	26°24	12°51	1°14	29°41	8°40	n.a.	M 7
T 8	18 51 6	11°36'25	12♈33	24°13	26° 1	12°43	25°32	24°20	0°21	26°23	12°51	1°D13	29°38	8°46	n.a.	T 8
W 9	18 55 3	12°33'54	25°19	23°38	26°56	13°20	25°43	24°26	0°21	26°22	12°51	1°14	29°35	8°53	n.a.	W 9
T 10	18 58 59	13°31'25	7♉45	22°59	27°51	13°57	25°54	24°32	0°20	26°21	12°52	1°15	29°32	9° 0	n.a.	T 10
F 11	19 2 56	14°28'57	19°56	22°16	28°47	14°35	26° 5	24°39	0°20	26°20	12°52	1°17	29°28	9° 6	n.a.	F 11
S 12	19 6 53	15°26'31	1♊56	21°31	29°43	15°13	26°16	24°44	0°20	26°19	12°52	1°R17	29°25	9°13	n.a.	S 12
S 13	19 10 49	16°24'06	13°48	20°43	0♊40	15°50	26°27	24°50	0°D20	26°18	12°52	1°16	29°22	9°20	n.a.	S 13
M14	19 14 46	17°21'43	25°37	19°54	1°37	16°28	26°39	24°56	0°20	26°17	12°52	1°13	29°19	9°26	n.a.	M14
T 15	19 18 42	18°19'21	7♋26	19° 5	2°35	17° 6	26°50	25° 2	0°20	26°15	12°52	1° 8	29°16	9°33	n.a.	T 15
W16	19 22 39	19°17'01	19°15	18°15	3°33	17°44	27° 2	25° 8	0°20	26°14	12°52	1° 1	29°12	9°40	n.a.	W16
T 17	19 26 35	20°14'42	1♌ 8	17°28	4°31	18°22	27°13	25°13	0°21	26°13	12°R52	0°53	29° 9	9°46	n.a.	T 17
F 18	19 30 32	21°12'25	13° 7	16°42	5°30	19° 1	27°25	25°19	0°21	26°12	12°52	0°43	29° 6	9°53	n.a.	F 18
S 19	19 34 28	22°10'08	25°11	16° 0	6°30	19°39	27°36	25°24	0°21	26°10	12°52	0°34	29° 3	10° 0	n.a.	S 19
S 20	19 38 25	23° 7'53	7♍25	15°22	7°29	20°17	27°48	25°30	0°22	26° 9	12°52	0°25	29° 0	10° 6	n.a.	S 20
M21	19 42 22	24° 5'40	19°49	14°49	8°29	20°56	28° 0	25°35	0°22	26° 8	12°52	0°18	28°57	10°13	n.a.	M21
T 22	19 46 18	25° 3'27	2♎26	14°22	9°30	21°35	28°12	25°41	0°22	26° 6	12°52	0°14	28°53	10°20	n.a.	T 22
W23	19 50 15	26° 1'16	15°18	14° 1	10°31	22°13	28°24	25°46	0°23	26° 5	12°52	0°11	28°50	10°26	n.a.	W23
T 24	19 54 11	26°59'06	28°30	13°47	11°32	22°52	28°35	25°51	0°24	26° 4	12°51	0°D11	28°47	10°33	n.a.	T 24
F 25	19 58 8	27°56'58	12♏ 4	13°D40	12°33	23°31	28°47	25°56	0°24	26° 2	12°51	0°11	28°44	10°40	n.a.	F 25
S 26	20 2 4	28°54'51	26° 2	13°41	13°35	24°10	28°59	26° 1	0°25	26° 1	12°51	0°R12	28°41	10°46	n.a.	S 26
S 27	20 6 1	29°52'45	10♐24	13°50	14°37	24°49	29°12	26° 6	0°26	25°59	12°51	0°12	28°38	10°53	n.a.	S 27
M28	20 9 57	0♌50'41	25° 9	14° 7	15°39	25°29	29°24	26°11	0°26	25°58	12°51	0° 9	28°34	11° 0	n.a.	M28
T 29	20 13 54	1°48'38	10♑11	14°32	16°42	26° 8	29°36	26°15	0°27	25°56	12°50	0° 5	28°31	11° 6	n.a.	T 29
W30	20 17 51	2°46'37	25°22	15° 5	17°45	26°47	29°48	26°20	0°28	25°55	12°50	29♉58	28°28	11°13	n.a.	W30
T 31	20 21 47	3♌44'38	10♒33	15♋46	18♊48	27♍27	0♍ 0	26♉25	0♏29	25♒53	12♈50	29♉49	28♉25	11♋20	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	23n37	26s19	2s37	18n10	3s 4	14n10	3s53	9n 1	0n33	14n44	1n14	17n14	1s42	11s22	0n24	13s57	1s12	9s49	16s14	20n43	20n23	26n38		n.a.	T 1
W 2	23 35	26 17	3 42	17 58	3 17	14 25	3 52	8 46	0 32	14 40	1 13	17 16	1 42	11 22	0 24	13 57	1 12	9 49	16 15	20 43	20 22	26 38		n.a.	W 2
T 3	23 32	24 18	4 32	17 46	3 30	14 39	3 50	8 31	0 31	14 37	1 13	17 18	1 42	11 22	0 24	13 57	1 12	9 49	16 15	20 42	20 21	26 39		n.a.	T 3
F 4	23 29	20 39	5 2	17 36	3 42	14 54	3 49	8 16	0 30	14 33	1 13	17 19	1 42	11 22	0 24	13 58	1 12	9 49	16 15	20 41	20 21	26 39		n.a.	F 4
S 5	23 25	15 50	5 11	17 28	3 53	15 9	3 47	8 1	0 29	14 29	1 13	17 21	1 42	11 21	0 24	13 58	1 12	9 49	16 16	20 40	20 20	26 39		n.a.	S 5
S 6	23 21	10 17	5 1	17 22	4 3	15 24	3 46	7 46	0 28	14 25	1 13	17 22	1 42	11 21	0 24	13 58	1 12	9 49	16 16	20 39	20 19	26 39		n.a.	S 6
M 7	23 17	4 26	4 35	17 17	4 13	15 38	3 44	7 31	0 27	14 22	1 13	17 24	1 42	11 21	0 24	13 59	1 12	9 50	16 16	20 38	20 19	26 40		n.a.	M 7
T 8	23 12	1n26	3 54	17 14	4 21	15 53	3 42	7 15	0 26	14 18	1 13	17 25	1 42	11 21	0 24	13 59	1 12	9 50	16 17	20 38	20 18	26 40		n.a.	T 8
W 9	23 7	7 4	3 3	17 12	4 29	16 8	3 40	7 0	0 25	14 14	1 13	17 27	1 42	11 21	0 24	14 0	1 12	9 50	16 17	20 38	20 17	26 40		n.a.	W 9
T 10	23 1	12 18	2 4	17 13	4 34	16 22	3 37	6 45	0 24	14 10	1 13	17 28	1 42	11 21	0 24	14 0	1 12	9 50	16 17	20 39	20 17	26 40		n.a.	T 10
F 11	22 55	16 56	1 1	17 16	4 39	16 37	3 35	6 29	0 23	14 6	1 13	17 29	1 42	11 21	0 24	14 0	1 12	9 51	16 18	20 39	20 16	26 40		n.a.	F 11
S 12	22 48	20 50	0n 3	17 20	4 41	16 51	3 33	6 14	0 22	14 2	1 12	17 31	1 42	11 21	0 24	14 1	1 12	9 51	16 18	20 39	20 15	26 41		n.a.	S 12
S 13	22 41	23 50	1 7	17 26	4 42	17 6	3 30	5 58	0 21	13 58	1 12	17 32	1 43	11 21	0 24	14 1	1 12	9 51	16 18	20 39	20 15	26 41		n.a.	S 13
M14	22 34	25 46	2 8	17 34	4 42	17 20	3 27	5 42	0 20	13 54	1 12	17 33	1 43	11 21	0 24	14 2	1 12	9 51	16 19	20 38	20 14	26 41		n.a.	M14
T 15	22 26	26 32	3 2	17 44	4 39	17 34	3 25	5 27	0 19	13 50	1 12	17 35	1 43	11 21	0 24	14 2	1 12	9 52	16 19	20 37	20 13	26 41		n.a.	T 15
W16	22 18	26 5	3 49	17 55	4 34	17 48	3 22	5 11	0 18	13 46	1 12	17 36	1 43	11 21	0 23	14 3	1 12	9 52	16 19	20 36	20 12	26 41		n.a.	W16
T 17	22 10	24 27	4 26	18 8	4 28	18 2	3 19	4 55	0 17	13 42	1 12	17 37	1 43	11 21	0 23	14 3	1 12	9 52	16 19	20 34	20 12	26 41		n.a.	T 17
F 18	22 1	21 43	4 52	18 22	4 20	18 15	3 16	4 39	0 16	13 38	1 12	17 39	1 43	11 21	0 23	14 4	1 12	9 52	16 20	20 32	20 11	26 42		n.a.	F 18
S 19	21 52	18 2	5 5	18 36	4 10	18 28	3 13	4 23	0 15	13 34	1 12	17 40	1 43	11 22	0 23	14 4	1 12	9 53	16 20	20 30	20 10	26 42		n.a.	S 19
S 20	21 42	13 34	5 4	18 52	3 58	18 41	3 10	4 7	0 14	13 30	1 12	17 41	1 43	11 22	0 23	14 4	1 12	9 53	16 20	20 28	20 10	26 42		n.a.	S 20
M21	21 32	8 29	4 49	19 8	3 46	18 54	3 6	3 50	0 14	13 25	1 12	17 42	1 43	11 22	0 23	14 5	1 12	9 53	16 21	20 27	20 9	26 42		n.a.	M21
T 22	21 22	2 59	4 19	19 25	3 31	19 7	3 3	3 34	0 13	13 21	1 12	17 43	1 43	11 22	0 23	14 5	1 12	9 54	16 21	20 26	20 8	26 42		n.a.	T 22
W23	21 11	2s46	3 37	19 43	3 16	19 19	3 0	3 18	0 12	13 17	1 12	17 45	1 43	11 22	0 23	14 6	1 12	9 54	16 21	20 25	20 8	26 42		n.a.	W23
T 24	21 0	8 33	2 41	20 0	3 0	19 31	2 56	3 2	0 11	13 13	1 11	17 46	1 43	11 23	0 23	14 6	1 12	9 54	16 22	20 25	20 7	26 42		n.a.	T 24
F 25	20 48	14 7	1 36	20 17	2 44	19 42	2 52	2 45	0 10	13 8	1 11	17 47	1 44	11 23	0 23	14 7	1 12	9 55	16 22	20 25	20 6	26 43		n.a.	F 25
S 26	20 37	19 7	0 22	20 34	2 27	19 54	2 49	2 29	0 9	13 4	1 11	17 48	1 44	11 23	0 23	14 8	1 12	9 55	16 22	20 25	20 5	26 43		n.a.	S 26
S 27	20 24	23 9	0s54	20 50	2 9	20 5	2 45	2 12	0 8	13 0	1 11	17 49	1 44	11 23	0 23	14 8	1 12	9 55	16 23	20 25	20 5	26 43		n.a.	S 27
M28	20 12	25 46	2 9	21 6	1 52	20 15	2 42	1 56	0 7	12 55	1 11	17 50	1 44	11 24	0 23	14 9	1 13	9 56	16 23	20 25	20 4	26 43		n.a.	M28
T 29	19 59	26 35	3 16	21 21	1 34	20 25	2 38	1 39	0 6	12 51	1 11	17 51	1 44	11 24	0 23	14 9	1 13	9 56	16 23	20 24	20 3	26 43		n.a.	T 29
W30	19 46	25 24	4 10	21 34	1 17	20 35	2 34	1 23	0 6	12 47	1 11	17 52	1 44	11 24	0 23	14 10	1 13	9 57	16 24	20 22	20 3	26 43		n.a.	W30
T 31	19n32	22s23	4s46	21n46	1s 0	20n44	2s30	1n 6	0n 5	12n42	1n11	17n53	1s44	11s25	0n23	14s10	1s13	9s57	16s24	20n20	20n 2	26n43		n.a.	T 31

Julian Day Number = 1677774.5, Delta T = 03h17m07s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'57, Lahiri = - 5°35'57 Julian Calendar 1 July 120 BCE == Greg. Calendar 28 June 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

AUGUST 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 25 44	4♌42'40	25♒33	16♋34	19♊52	28♍ 6	0♍13	26♉29	0♏30	25°R52	12°R50	29°R39	28♉22	11♋27	n.a.	F 1
S 2	20 29 40	5°40'44	10♓13	17°30	20°55	28°46	0°25	26°34	0°31	25♒50	12♈49	29♉30	28°18	11°33	n.a.	S 2
S 3	20 33 37	6°38'50	24°26	18°33	21°59	29°26	0°37	26°38	0°32	25°49	12°49	29°22	28°15	11°40	n.a.	S 3
M 4	20 37 33	7°36'58	8♈10	19°43	23° 4	0♎ 6	0°50	26°42	0°33	25°47	12°48	29°16	28°12	11°47	n.a.	M 4
T 5	20 41 30	8°35'08	21°24	20°59	24° 8	0°46	1° 2	26°46	0°34	25°46	12°48	29°13	28° 9	11°53	n.a.	T 5
W 6	20 45 26	9°33'21	4♉12	22°20	25°13	1°26	1°15	26°50	0°36	25°44	12°48	29°12	28° 6	12° 0	n.a.	W 6
T 7	20 49 23	10°31'35	16°38	23°47	26°18	2° 6	1°27	26°54	0°37	25°42	12°47	29°D12	28° 3	12° 7	n.a.	T 7
F 8	20 53 20	11°29'52	28°46	25°19	27°24	2°46	1°40	26°58	0°38	25°41	12°47	29°R12	27°59	12°13	n.a.	F 8
S 9	20 57 16	12°28'11	10♊43	26°55	28°29	3°26	1°52	27° 2	0°39	25°39	12°46	29°11	27°56	12°20	n.a.	S 9
S 10	21 1 13	13°26'32	22°33	28°34	29°35	4° 7	2° 5	27° 6	0°41	25°38	12°46	29° 9	27°53	12°27	n.a.	S 10
M11	21 5 9	14°24'55	4♋21	0♌17	0♋41	4°47	2°18	27° 9	0°42	25°36	12°45	29° 4	27°50	12°33	n.a.	M11
T 12	21 9 6	15°23'20	16°10	2° 3	1°47	5°28	2°30	27°13	0°44	25°34	12°45	28°57	27°47	12°40	n.a.	T 12
W13	21 13 2	16°21'47	28° 4	3°50	2°54	6° 8	2°43	27°16	0°45	25°33	12°44	28°46	27°44	12°47	n.a.	W13
T 14	21 16 59	17°20'17	10♌ 4	5°40	4° 0	6°49	2°56	27°19	0°47	25°31	12°44	28°34	27°40	12°53	n.a.	T 14
F 15	21 20 55	18°18'48	22°12	7°30	5° 7	7°30	3° 9	27°23	0°49	25°30	12°43	28°20	27°37	13° 0	n.a.	F 15
S 16	21 24 52	19°17'21	4♍29	9°22	6°14	8°11	3°21	27°26	0°50	25°28	12°43	28° 6	27°34	13° 7	n.a.	S 16
S 17	21 28 49	20°15'57	16°55	11°15	7°21	8°52	3°34	27°29	0°52	25°26	12°42	27°54	27°31	13°13	n.a.	S 17
M18	21 32 45	21°14'34	29°31	13° 8	8°29	9°33	3°47	27°32	0°54	25°25	12°41	27°44	27°28	13°20	n.a.	M18
T 19	21 36 42	22°13'13	12♎19	15° 1	9°36	10°14	4° 0	27°34	0°56	25°23	12°41	27°36	27°24	13°27	n.a.	T 19
W20	21 40 38	23°11'53	25°19	16°53	10°44	10°56	4°13	27°37	0°58	25°21	12°40	27°31	27°21	13°34	n.a.	W20
T 21	21 44 35	24°10'36	8♏33	18°46	11°52	11°37	4°26	27°40	1° 0	25°20	12°39	27°29	27°18	13°40	n.a.	T 21
F 22	21 48 31	25° 9'21	22° 4	20°38	13° 0	12°19	4°39	27°42	1° 2	25°18	12°39	27°29	27°15	13°47	n.a.	F 22
S 23	21 52 28	26° 8'07	5♐53	22°30	14° 8	13° 0	4°52	27°45	1° 4	25°16	12°38	27°29	27°12	13°54	n.a.	S 23
S 24	21 56 24	27° 6'55	20° 1	24°21	15°17	13°42	5° 5	27°47	1° 6	25°15	12°37	27°28	27° 9	14° 0	n.a.	S 24
M25	22 0 21	28° 5'45	4♑28	26°11	16°25	14°23	5°18	27°49	1° 8	25°13	12°36	27°25	27° 5	14° 7	n.a.	M25
T 26	22 4 18	29° 4'37	19°10	28° 1	17°34	15° 5	5°31	27°51	1°10	25°11	12°36	27°19	27° 2	14°14	n.a.	T 26
W27	22 8 14	0♍ 3'30	4♒ 3	29°50	18°43	15°47	5°44	27°53	1°12	25°10	12°35	27°11	26°59	14°20	n.a.	W27
T 28	22 12 11	1° 2'26	18°59	1♍38	19°52	16°29	5°57	27°55	1°15	25° 8	12°34	27° 0	26°56	14°27	n.a.	T 28
F 29	22 16 7	2° 1'24	3♓48	3°25	21° 1	17°11	6°10	27°57	1°17	25° 6	12°33	26°49	26°53	14°34	n.a.	F 29
S 30	22 20 4	3° 0'23	18°21	5°11	22°11	17°53	6°23	27°59	1°19	25° 5	12°32	26°37	26°49	14°40	n.a.	S 30
S 31	22 24 0	3♍59'25	2♈32	6♍56	23♋20	18♎35	6♍36	28♉ 0	1♏22	25♒ 3	12♈32	26♉28	26♉46	14♋47	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n18	17s53	5s 2	21n57	0s43	20n53	2s26	0n49	0n 4	12n38	1n11	17n54	1s44	11s25	0n23	14s11	1s13	9s57	16s24	20n18	20n 1	26n43		n.a.
S 2	19 4	12 25	4 58	22 6	0 27	21 2	2 22	0 32	0 3	12 33	1 11	17 55	1 44	11 25	0 23	14 11	1 13	9 58	16 24	20 16	20 1	26 43		n.a.
S 3	18 49	6 26	4 35	22 13	0 12	21 10	2 18	0 16	0 2	12 29	1 11	17 56	1 44	11 26	0 23	14 12	1 13	9 58	16 25	20 15	20 0	26 43		n.a.
M 4	18 34	0 21	3 57	22 17	0n 2	21 18	2 14	0s 1	0 1	12 24	1 11	17 57	1 45	11 26	0 23	14 12	1 13	9 59	16 25	20 13	19 59	26 43		n.a.
T 5	18 19	5n33	3 7	22 19	0 16	21 25	2 10	0 18	0 0	12 20	1 11	17 58	1 45	11 27	0 23	14 13	1 13	9 59	16 25	20 13	19 58	26 43		n.a.
W 6	18 4	11 3	2 9	22 19	0 29	21 31	2 6	0 35	0s 0	12 15	1 11	17 58	1 45	11 27	0 23	14 13	1 13	9 59	16 26	20 12	19 58	26 43		n.a.
T 7	17 48	15 56	1 6	22 16	0 41	21 38	2 2	0 52	0 1	12 11	1 11	17 59	1 45	11 28	0 23	14 14	1 13	10 0	16 26	20 12	19 57	26 43		n.a.
F 8	17 32	20 5	0 2	22 10	0 52	21 43	1 58	1 9	0 2	12 6	1 11	18 0	1 45	11 28	0 23	14 15	1 13	10 0	16 26	20 12	19 56	26 43		n.a.
S 9	17 15	23 19	1n 1	22 1	1 2	21 49	1 54	1 26	0 3	12 2	1 11	18 1	1 45	11 29	0 23	14 15	1 13	10 1	16 26	20 12	19 55	26 43		n.a.
S 10	16 59	25 30	2 1	21 50	1 11	21 53	1 49	1 43	0 4	11 57	1 11	18 2	1 45	11 29	0 23	14 16	1 13	10 1	16 27	20 12	19 55	26 43		n.a.
M11	16 42	26 33	2 55	21 36	1 19	21 57	1 45	2 0	0 5	11 52	1 11	18 2	1 45	11 30	0 23	14 16	1 13	10 2	16 27	20 11	19 54	26 43		n.a.
T 12	16 24	26 23	3 42	21 19	1 26	22 1	1 41	2 17	0 5	11 48	1 11	18 3	1 45	11 30	0 23	14 17	1 13	10 2	16 27	20 9	19 53	26 43		n.a.
W13	16 7	25 0	4 19	21 0	1 32	22 4	1 37	2 34	0 6	11 43	1 11	18 4	1 46	11 31	0 23	14 17	1 13	10 3	16 28	20 7	19 53	26 43		n.a.
T 14	15 49	22 29	4 45	20 38	1 37	22 6	1 33	2 51	0 7	11 38	1 11	18 4	1 46	11 31	0 23	14 18	1 13	10 3	16 28	20 4	19 52	26 43		n.a.
F 15	15 31	18 57	4 58	20 14	1 41	22 8	1 28	3 8	0 8	11 34	1 11	18 5	1 46	11 32	0 23	14 19	1 13	10 3	16 28	20 1	19 51	26 43		n.a.
S 16	15 12	14 35	4 58	19 47	1 44	22 10	1 24	3 25	0 9	11 29	1 11	18 5	1 46	11 33	0 23	14 19	1 13	10 4	16 28	19 58	19 50	26 43		n.a.
S 17	14 54	9 34	4 44	19 18	1 47	22 10	1 20	3 42	0 9	11 24	1 10	18 6	1 46	11 33	0 23	14 20	1 13	10 4	16 29	19 55	19 50	26 43		n.a.
M18	14 35	4 6	4 16	18 48	1 48	22 11	1 16	3 59	0 10	11 19	1 10	18 7	1 46	11 34	0 23	14 20	1 13	10 5	16 29	19 53	19 49	26 43		n.a.
T 19	14 16	1s38	3 34	18 15	1 49	22 10	1 12	4 16	0 11	11 15	1 10	18 7	1 46	11 35	0 23	14 21	1 13	10 5	16 29	19 51	19 48	26 43		n.a.
W20	13 56	7 24	2 41	17 41	1 50	22 9	1 7	4 33	0 12	11 10	1 10	18 8	1 46	11 35	0 22	14 22	1 13	10 6	16 29	19 50	19 47	26 43		n.a.
T 21	13 37	12 58	1 38	17 6	1 49	22 8	1 3	4 50	0 12	11 5	1 10	18 8	1 46	11 36	0 22	14 22	1 13	10 6	16 30	19 49	19 47	26 43		n.a.
F 22	13 17	18 2	0 29	16 29	1 48	22 5	0 59	5 7	0 13	11 0	1 10	18 8	1 47	11 37	0 22	14 23	1 13	10 7	16 30	19 49	19 46	26 42		n.a.
S 23	12 57	22 15	0s44	15 51	1 46	22 3	0 55	5 24	0 14	10 56	1 10	18 9	1 47	11 38	0 22	14 23	1 13	10 7	16 30	19 49	19 45	26 42		n.a.
S 24	12 37	25 16	1 56	15 11	1 44	21 59	0 51	5 41	0 15	10 51	1 10	18 9	1 47	11 38	0 22	14 24	1 13	10 8	16 30	19 49	19 45	26 42		n.a.
M25	12 16	26 40	3 2	14 31	1 42	21 55	0 46	5 58	0 16	10 46	1 10	18 10	1 47	11 39	0 22	14 24	1 13	10 8	16 30	19 48	19 44	26 42		n.a.
T 26	11 56	26 14	3 57	13 50	1 38	21 51	0 42	6 15	0 16	10 41	1 10	18 10	1 47	11 40	0 22	14 25	1 13	10 9	16 31	19 47	19 43	26 42		n.a.
W27	11 35	23 56	4 36	13 8	1 35	21 45	0 38	6 32	0 17	10 36	1 10	18 10	1 47	11 41	0 22	14 26	1 13	10 9	16 31	19 45	19 42	26 42		n.a.
T 28	11 14	20 0	4 57	12 26	1 31	21 39	0 34	6 49	0 18	10 31	1 10	18 11	1 47	11 41	0 22	14 26	1 13	10 10	16 31	19 43	19 42	26 42		n.a.
F 29	10 52	14 51	4 58	11 43	1 27	21 33	0 30	7 6	0 19	10 27	1 10	18 11	1 47	11 42	0 22	14 27	1 13	10 10	16 31	19 40	19 41	26 41		n.a.
S 30	10 31	8 56	4 39	10 59	1 22	21 26	0 26	7 23	0 19	10 22	1 10	18 11	1 48	11 43	0 22	14 27	1 13	10 11	16 32	19 37	19 40	26 41		n.a.
S 31	10n 9	2s42	4s 3	10n15	1n17	21n18	0s22	7s40	0s20	10n17	1n10	18n11	1s48	11s44	0n22	14s28	1s13	10s11	16s32	19n35	19n39	26n41		n.a.

Julian Day Number = 1677805.5, Delta T = 03h17m06s
Ecliptic obliquity = 23°42'39, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'53, Lahiri = - 5°35'52 Julian Calendar 1 Aug. 120 BCE == Greg. Calendar 29 July 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

SEPTEMBER 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 27 57	4♍58'29	16♈17	8♍41	24♋30	19♎17	6♍49	28♉ 1	1♏24	25°R 1	12°R31	26°R20	26♉43	14♋54	n.a.	M 1
T 2	22 31 53	5°57'36	29°34	10°24	25°40	20° 0	7° 2	28° 3	1°26	25♒ 0	12♈30	26♉15	26°40	15° 0	n.a.	T 2
W 3	22 35 50	6°56'44	12♉26	12° 7	26°50	20°42	7°15	28° 4	1°29	24°58	12°29	26°13	26°37	15° 7	n.a.	W 3
T 4	22 39 46	7°55'56	24°54	13°49	28° 0	21°25	7°28	28° 5	1°31	24°57	12°28	26°D12	26°34	15°14	n.a.	T 4
F 5	22 43 43	8°55'10	7♊ 5	15°30	29°10	22° 7	7°41	28° 6	1°34	24°55	12°27	26°R12	26°30	15°21	n.a.	F 5
S 6	22 47 40	9°54'26	19° 3	17°10	0♌20	22°50	7°54	28° 7	1°37	24°53	12°26	26°12	26°27	15°27	n.a.	S 6
S 7	22 51 36	10°53'45	0♋53	18°50	1°31	23°33	8° 7	28° 8	1°39	24°52	12°25	26°10	26°24	15°34	n.a.	S 7
M 8	22 55 33	11°53'06	12°42	20°28	2°42	24°15	8°20	28° 8	1°42	24°50	12°24	26° 6	26°21	15°41	n.a.	M 8
T 9	22 59 29	12°52'29	24°34	22° 6	3°52	24°58	8°33	28° 9	1°45	24°49	12°23	26° 0	26°18	15°47	n.a.	T 9
W10	23 3 26	13°51'55	6♌32	23°43	5° 3	25°41	8°46	28° 9	1°47	24°47	12°22	25°50	26°15	15°54	n.a.	W10
T 11	23 7 22	14°51'23	18°40	25°19	6°14	26°24	8°59	28°10	1°50	24°45	12°21	25°39	26°11	16° 1	n.a.	T 11
F 12	23 11 19	15°50'53	0♍59	26°55	7°26	27° 7	9°12	28°10	1°53	24°44	12°20	25°26	26° 8	16° 7	n.a.	F 12
S 13	23 15 15	16°50'25	13°30	28°30	8°37	27°51	9°25	28°R10	1°56	24°42	12°19	25°13	26° 5	16°14	n.a.	S 13
S 14	23 19 12	17°50'00	26°13	0♎ 4	9°48	28°34	9°38	28°10	1°59	24°41	12°18	25° 2	26° 2	16°21	n.a.	S 14
M15	23 23 9	18°49'36	9♎ 9	1°38	11° 0	29°17	9°51	28°10	2° 2	24°39	12°17	24°52	25°59	16°27	n.a.	M15
T 16	23 27 5	19°49'15	22°16	3°10	12°11	0♏ 1	10° 4	28°10	2° 5	24°38	12°16	24°45	25°55	16°34	n.a.	T 16
W17	23 31 2	20°48'55	5♏33	4°43	13°23	0°44	10°17	28° 9	2° 8	24°37	12°15	24°41	25°52	16°41	n.a.	W17
T 18	23 34 58	21°48'38	19° 1	6°14	14°35	1°28	10°30	28° 9	2°11	24°35	12°14	24°D39	25°49	16°48	n.a.	T 18
F 19	23 38 55	22°48'22	2♐40	7°45	15°47	2°11	10°43	28° 8	2°14	24°34	12°13	24°39	25°46	16°54	n.a.	F 19
S 20	23 42 51	23°48'09	16°30	9°15	16°59	2°55	10°56	28° 8	2°17	24°32	12°12	24°40	25°43	17° 1	n.a.	S 20
S 21	23 46 48	24°47'57	0♑32	10°45	18°11	3°39	11° 9	28° 7	2°20	24°31	12°11	24°R40	25°40	17° 8	n.a.	S 21
M22	23 50 44	25°47'47	14°45	12°13	19°23	4°22	11°21	28° 6	2°23	24°29	12°10	24°39	25°36	17°14	n.a.	M22
T 23	23 54 41	26°47'38	29° 6	13°42	20°35	5° 6	11°34	28° 5	2°26	24°28	12° 9	24°35	25°33	17°21	n.a.	T 23
W24	23 58 38	27°47'31	13♒34	15° 9	21°48	5°50	11°47	28° 4	2°30	24°27	12° 8	24°29	25°30	17°28	n.a.	W24
T 25	0 2 34	28°47'26	28° 3	16°36	23° 0	6°34	12° 0	28° 2	2°33	24°25	12° 7	24°21	25°27	17°34	n.a.	T 25
F 26	0 6 31	29°47'23	12♓28	18° 2	24°13	7°18	12°13	28° 1	2°36	24°24	12° 6	24°11	25°24	17°41	n.a.	F 26
S 27	0 10 27	0♎47'22	26°41	19°27	25°26	8° 3	12°25	28° 0	2°39	24°23	12° 5	24° 3	25°21	17°48	n.a.	S 27
S 28	0 14 24	1°47'23	10♈37	20°52	26°38	8°47	12°38	27°58	2°43	24°22	12° 3	23°55	25°17	17°54	n.a.	S 28
M29	0 18 20	2°47'25	24°12	22°16	27°51	9°31	12°51	27°56	2°46	24°20	12° 2	23°49	25°14	18° 1	n.a.	M29
T 30	0 22 17	3♎47'30	7♉25	23♎39	29♌ 4	10♏15	13♍ 3	27♉55	2♏49	24♒19	12♈ 1	23♉45	25♉11	18♋ 8	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n48	3n29	3s14	9n31	1n12	21n10	0s18	7s57	0s21	10n12	1n11	18n12	1s48	11s45	0n22	14s28	1s13	10s12	16s32	19n33	19n39	26n41		n.a.
T 2	9 26	9 20	2 16	8 47	1 7	21 1	0 14	8 14	0 21	10 7	1 11	18 12	1 48	11 46	0 22	14 29	1 13	10 12	16 32	19 32	19 38	26 41		n.a.
W 3	9 4	14 36	1 12	8 2	1 1	20 51	0 10	8 31	0 22	10 2	1 11	18 12	1 48	11 47	0 22	14 29	1 13	10 13	16 32	19 31	19 37	26 41		n.a.
T 4	8 41	19 6	0 7	7 17	0 55	20 41	0 7	8 48	0 23	9 57	1 11	18 12	1 48	11 48	0 22	14 30	1 13	10 13	16 32	19 31	19 36	26 40		n.a.
F 5	8 19	22 41	0n57	6 32	0 49	20 31	0 3	9 4	0 24	9 52	1 11	18 12	1 48	11 48	0 22	14 31	1 13	10 14	16 33	19 31	19 36	26 40		n.a.
S 6	7 56	25 13	1 58	5 47	0 43	20 19	0n 1	9 21	0 24	9 48	1 11	18 12	1 48	11 49	0 22	14 31	1 13	10 14	16 33	19 31	19 35	26 40		n.a.
S 7	7 34	26 35	2 53	5 2	0 37	20 7	0 5	9 38	0 25	9 43	1 11	18 12	1 49	11 50	0 22	14 32	1 13	10 15	16 33	19 31	19 34	26 40		n.a.
M 8	7 11	26 45	3 40	4 17	0 31	19 55	0 8	9 54	0 26	9 38	1 11	18 12	1 49	11 51	0 22	14 32	1 13	10 15	16 33	19 30	19 33	26 39		n.a.
T 9	6 48	25 41	4 18	3 32	0 24	19 42	0 12	10 11	0 26	9 33	1 11	18 12	1 49	11 52	0 22	14 33	1 13	10 16	16 33	19 28	19 33	26 39		n.a.
W10	6 25	23 26	4 45	2 47	0 17	19 28	0 15	10 27	0 27	9 28	1 11	18 12	1 49	11 53	0 22	14 33	1 13	10 16	16 33	19 26	19 32	26 39		n.a.
T 11	6 2	20 8	4 59	2 2	0 11	19 14	0 19	10 44	0 28	9 23	1 11	18 12	1 49	11 54	0 22	14 34	1 13	10 17	16 34	19 23	19 31	26 39		n.a.
F 12	5 39	15 55	5 0	1 18	0 4	18 59	0 22	11 0	0 28	9 18	1 11	18 12	1 49	11 55	0 22	14 34	1 13	10 17	16 34	19 20	19 30	26 38		n.a.
S 13	5 15	10 57	4 47	0 34	0s 3	18 44	0 26	11 17	0 29	9 13	1 11	18 12	1 49	11 56	0 22	14 35	1 13	10 18	16 34	19 17	19 30	26 38		n.a.
S 14	4 52	5 28	4 19	0s11	0 10	18 28	0 29	11 33	0 30	9 8	1 11	18 12	1 49	11 57	0 22	14 35	1 13	10 18	16 34	19 14	19 29	26 38		n.a.
M15	4 28	0s21	3 37	0 55	0 17	18 11	0 32	11 49	0 30	9 3	1 11	18 12	1 50	11 58	0 22	14 36	1 13	10 19	16 34	19 12	19 28	26 38		n.a.
T 16	4 5	6 14	2 43	1 38	0 24	17 54	0 35	12 5	0 31	8 58	1 11	18 12	1 50	11 59	0 22	14 36	1 13	10 19	16 34	19 10	19 27	26 37		n.a.
W17	3 41	11 57	1 40	2 22	0 31	17 37	0 39	12 21	0 32	8 54	1 11	18 11	1 50	12 0	0 22	14 37	1 13	10 20	16 34	19 9	19 27	26 37		n.a.
T 18	3 17	17 12	0 30	3 5	0 38	17 18	0 42	12 37	0 32	8 49	1 11	18 11	1 50	12 2	0 22	14 37	1 13	10 20	16 34	19 9	19 26	26 37		n.a.
F 19	2 53	21 38	0s43	3 47	0 44	17 0	0 45	12 53	0 33	8 44	1 11	18 11	1 50	12 3	0 22	14 38	1 13	10 21	16 35	19 9	19 25	26 36		n.a.
S 20	2 29	24 54	1 54	4 29	0 51	16 41	0 48	13 9	0 34	8 39	1 11	18 11	1 50	12 4	0 22	14 38	1 13	10 21	16 35	19 9	19 24	26 36		n.a.
S 21	2 5	26 42	2 59	5 11	0 58	16 21	0 51	13 25	0 34	8 34	1 11	18 10	1 50	12 5	0 22	14 39	1 13	10 22	16 35	19 9	19 24	26 36		n.a.
M22	1 41	26 46	3 55	5 53	1 5	16 1	0 53	13 40	0 35	8 29	1 11	18 10	1 50	12 6	0 22	14 39	1 13	10 22	16 35	19 9	19 23	26 35		n.a.
T 23	1 17	25 4	4 36	6 34	1 12	15 41	0 56	13 56	0 36	8 24	1 11	18 10	1 51	12 7	0 22	14 40	1 13	10 23	16 35	19 8	19 22	26 35		n.a.
W24	0 53	21 43	5 0	7 14	1 18	15 20	0 59	14 11	0 36	8 19	1 11	18 9	1 51	12 8	0 22	14 40	1 13	10 23	16 35	19 6	19 21	26 35		n.a.
T 25	0 29	17 2	5 4	7 54	1 25	14 58	1 1	14 26	0 37	8 14	1 12	18 9	1 51	12 9	0 22	14 40	1 13	10 24	16 35	19 4	19 20	26 34		n.a.
F 26	0 5	11 25	4 50	8 33	1 31	14 36	1 4	14 42	0 37	8 10	1 12	18 9	1 51	12 10	0 22	14 41	1 13	10 24	16 35	19 2	19 20	26 34		n.a.
S 27	0s19	5 16	4 18	9 12	1 37	14 14	1 6	14 57	0 38	8 5	1 12	18 8	1 51	12 12	0 22	14 41	1 13	10 25	16 35	19 0	19 19	26 34		n.a.
S 28	0 43	1n 2	3 30	9 50	1 43	13 51	1 9	15 12	0 39	8 0	1 12	18 8	1 51	12 13	0 22	14 42	1 13	10 25	16 35	18 58	19 18	26 33		n.a.
M29	1 7	9 8	2 32	10 27	1 49	13 28	1 11	15 27	0 39	7 55	1 12	18 7	1 51	12 14	0 22	14 42	1 13	10 26	16 35	18 56	19 17	26 33		n.a.
T 30	1s31	12n46	1s27	11s 4	1s55	13n 4	1n13	15s41	0s40	7n50	1n12	18n 7	1s51	12s15	0n22	14s42	1s13	10s26	16s35	18n55	19n17	26n32		n.a.

Julian Day Number = 1677836.5, Delta T = 03h17m05s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'49, Lahiri = - 5°35'48 Julian Calendar 1 Sept. 120 BCE == Greg. Calendar 29 Aug. 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

OCTOBER 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 26 13	4♎47'37	20♉15	25♎ 1	0♍17	11♏ 0	13♍16	27°R53	2♏53	24°R18	12°R 0	23°D44	25♉ 8	18♋15	n.a.	W 1
T 2	0 30 10	5°47'46	2♊44	26°22	1°30	11°44	13°28	27♉51	2°56	24♒17	11♈59	23♉44	25° 5	18°21	n.a.	T 2
F 3	0 34 6	6°47'58	14°57	27°42	2°43	12°29	13°41	27°49	2°59	24°16	11°58	23°45	25° 1	18°28	n.a.	F 3
S 4	0 38 3	7°48'11	26°57	29° 1	3°57	13°13	13°54	27°46	3° 3	24°15	11°57	23°47	24°58	18°35	n.a.	S 4
S 5	0 42 0	8°48'27	8♋49	0♏19	5°10	13°58	14° 6	27°44	3° 6	24°14	11°56	23°R47	24°55	18°41	n.a.	S 5
M 6	0 45 56	9°48'45	20°40	1°35	6°23	14°43	14°18	27°42	3°10	24°13	11°54	23°47	24°52	18°48	n.a.	M 6
T 7	0 49 53	10°49'04	2♌33	2°50	7°37	15°28	14°31	27°39	3°13	24°12	11°53	23°44	24°49	18°55	n.a.	T 7
W 8	0 53 49	11°49'26	14°34	4° 3	8°50	16°13	14°43	27°37	3°17	24°11	11°52	23°40	24°46	19° 1	n.a.	W 8
T 9	0 57 46	12°49'50	26°46	5°15	10° 4	16°57	14°55	27°34	3°20	24°10	11°51	23°34	24°42	19° 8	n.a.	T 9
F 10	1 1 42	13°50'16	9♍12	6°24	11°18	17°42	15° 8	27°31	3°24	24° 9	11°50	23°27	24°39	19°15	n.a.	F 10
S 11	1 5 39	14°50'44	21°55	7°31	12°31	18°28	15°20	27°28	3°27	24° 8	11°49	23°19	24°36	19°21	n.a.	S 11
S 12	1 9 35	15°51'13	4♎55	8°36	13°45	19°13	15°32	27°25	3°31	24° 7	11°48	23°13	24°33	19°28	n.a.	S 12
M13	1 13 32	16°51'45	18°11	9°37	14°59	19°58	15°44	27°22	3°35	24° 6	11°46	23° 7	24°30	19°35	n.a.	M13
T 14	1 17 29	17°52'18	1♏42	10°36	16°13	20°43	15°56	27°19	3°38	24° 5	11°45	23° 4	24°26	19°42	n.a.	T 14
W15	1 21 25	18°52'52	15°25	11°30	17°27	21°28	16° 8	27°16	3°42	24° 4	11°44	23° 2	24°23	19°48	n.a.	W15
T 16	1 25 22	19°53'29	29°18	12°21	18°41	22°14	16°20	27°12	3°45	24° 4	11°43	23°D 2	24°20	19°55	n.a.	T 16
F 17	1 29 18	20°54'06	13♐18	13° 6	19°55	22°59	16°32	27° 9	3°49	24° 3	11°42	23° 3	24°17	20° 2	n.a.	F 17
S 18	1 33 15	21°54'45	27°23	13°47	21° 9	23°45	16°44	27° 5	3°53	24° 2	11°41	23° 4	24°14	20° 8	n.a.	S 18
S 19	1 37 11	22°55'26	11♑32	14°22	22°24	24°30	16°55	27° 2	3°56	24° 1	11°40	23° 6	24°11	20°15	n.a.	S 19
M20	1 41 8	23°56'07	25°42	14°50	23°38	25°16	17° 7	26°58	4° 0	24° 1	11°39	23°R 6	24° 7	20°22	n.a.	M20
T 21	1 45 4	24°56'50	9♒51	15°10	24°52	26° 1	17°19	26°54	4° 4	24° 0	11°38	23° 5	24° 4	20°28	n.a.	T 21
W22	1 49 1	25°57'34	23°58	15°23	26° 6	26°47	17°30	26°50	4° 7	24° 0	11°36	23° 3	24° 1	20°35	n.a.	W22
T 23	1 52 58	26°58'19	8♓ 1	15°R27	27°21	27°33	17°42	26°46	4°11	23°59	11°35	23° 0	23°58	20°42	n.a.	T 23
F 24	1 56 54	27°59'05	21°56	15°21	28°35	28°18	17°53	26°42	4°15	23°58	11°34	22°56	23°55	20°49	n.a.	F 24
S 25	2 0 51	28°59'52	5♈40	15° 5	29°50	29° 4	18° 5	26°38	4°18	23°58	11°33	22°52	23°52	20°55	n.a.	S 25
S 26	2 4 47	0♏ 0'41	19°11	14°39	1♎ 4	29°50	18°16	26°34	4°22	23°57	11°32	22°49	23°48	21° 2	n.a.	S 26
M27	2 8 44	1° 1'31	2♉26	14° 1	2°19	0♐36	18°27	26°30	4°26	23°57	11°31	22°47	23°45	21° 9	n.a.	M27
T 28	2 12 40	2° 2'22	15°24	13°13	3°33	1°22	18°38	26°26	4°30	23°57	11°30	22°45	23°42	21°15	n.a.	T 28
W29	2 16 37	3° 3'15	28° 6	12°15	4°48	2° 8	18°49	26°21	4°33	23°56	11°29	22°D45	23°39	21°22	n.a.	W29
T 30	2 20 33	4° 4'09	10♊31	11° 8	6° 3	2°54	19° 0	26°17	4°37	23°56	11°28	22°46	23°36	21°29	n.a.	T 30
F 31	2 24 30	5♏ 5'04	22♊42	9♏53	7♎17	3♐40	19♍11	26♉13	4♏41	23♒56	11♈27	22♉47	23♉32	21♋35	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	1s56	17n42	0s19	11s40	2s 1	12n40	1n15	15s56	0s40	7n45	1n12	18n 6	1s51	12s16	0n22	14s43	1s13	10s27	16s35	18n55	19n16	26n32			n.a.
T 2	2 20	21 44	0n48	12 15	2 6	12 16	1 17	16 11	0 41	7 41	1 12	18 6	1 51	12 17	0 22	14 43	1 13	10 27	16 35	18 55	19 15	26 32			n.a.
F 3	2 44	24 42	1 52	12 49	2 11	11 51	1 19	16 25	0 42	7 36	1 12	18 5	1 52	12 19	0 22	14 44	1 13	10 27	16 35	18 55	19 14	26 31			n.a.
S 4	3 8	26 30	2 50	13 22	2 16	11 26	1 21	16 39	0 42	7 31	1 12	18 5	1 52	12 20	0 22	14 44	1 13	10 28	16 35	18 56	19 14	26 31			n.a.
S 5	3 32	27 4	3 39	13 54	2 21	11 1	1 23	16 53	0 43	7 26	1 12	18 4	1 52	12 21	0 21	14 44	1 13	10 28	16 35	18 56	19 13	26 30			n.a.
M 6	3 56	26 23	4 20	14 26	2 25	10 35	1 25	17 7	0 43	7 21	1 12	18 3	1 52	12 22	0 21	14 45	1 13	10 29	16 35	18 56	19 12	26 30			n.a.
T 7	4 20	24 30	4 49	14 56	2 29	10 9	1 27	17 21	0 44	7 17	1 13	18 3	1 52	12 24	0 21	14 45	1 13	10 29	16 35	18 55	19 11	26 29			n.a.
W 8	4 44	21 31	5 6	15 24	2 33	9 42	1 28	17 35	0 44	7 12	1 13	18 2	1 52	12 25	0 21	14 45	1 13	10 30	16 35	18 54	19 10	26 29			n.a.
T 9	5 7	17 33	5 9	15 52	2 36	9 16	1 30	17 48	0 45	7 7	1 13	18 1	1 52	12 26	0 21	14 46	1 13	10 30	16 35	18 52	19 10	26 28			n.a.
F 10	5 31	12 48	4 58	16 18	2 39	8 49	1 31	18 2	0 45	7 3	1 13	18 1	1 52	12 27	0 21	14 46	1 13	10 30	16 35	18 51	19 9	26 28			n.a.
S 11	5 55	7 24	4 32	16 42	2 41	8 21	1 33	18 15	0 46	6 58	1 13	18 0	1 52	12 28	0 21	14 46	1 13	10 31	16 35	18 49	19 8	26 27			n.a.
S 12	6 18	1 34	3 52	17 5	2 43	7 54	1 34	18 28	0 46	6 53	1 13	17 59	1 52	12 30	0 21	14 46	1 13	10 31	16 35	18 47	19 7	26 27			n.a.
M13	6 42	4s28	2 58	17 26	2 44	7 26	1 35	18 41	0 47	6 49	1 13	17 58	1 52	12 31	0 21	14 47	1 13	10 32	16 35	18 46	19 6	26 26			n.a.
T 14	7 5	10 25	1 54	17 46	2 44	6 58	1 36	18 54	0 47	6 44	1 13	17 58	1 52	12 32	0 21	14 47	1 13	10 32	16 35	18 45	19 6	26 26			n.a.
W15	7 29	15 59	0 41	18 3	2 44	6 30	1 37	19 6	0 48	6 39	1 13	17 57	1 52	12 33	0 21	14 47	1 12	10 32	16 35	18 44	19 5	26 25			n.a.
T 16	7 52	20 47	0s34	18 18	2 43	6 2	1 38	19 19	0 48	6 35	1 14	17 56	1 52	12 35	0 21	14 47	1 12	10 33	16 35	18 44	19 4	26 25			n.a.
F 17	8 15	24 27	1 49	18 30	2 41	5 33	1 39	19 31	0 49	6 30	1 14	17 55	1 53	12 36	0 21	14 48	1 12	10 33	16 35	18 45	19 3	26 24			n.a.
S 18	8 38	26 38	2 57	18 40	2 38	5 4	1 40	19 43	0 49	6 26	1 14	17 54	1 53	12 37	0 21	14 48	1 12	10 34	16 35	18 45	19 3	26 24			n.a.
S 19	9 1	27 6	3 55	18 46	2 34	4 35	1 40	19 55	0 50	6 21	1 14	17 53	1 53	12 38	0 21	14 48	1 12	10 34	16 35	18 45	19 2	26 23			n.a.
M20	9 23	25 48	4 38	18 50	2 29	4 6	1 41	20 7	0 50	6 17	1 14	17 52	1 53	12 40	0 21	14 48	1 12	10 34	16 35	18 46	19 1	26 23			n.a.
T 21	9 46	22 52	5 5	18 50	2 22	3 37	1 41	20 18	0 51	6 12	1 14	17 52	1 53	12 41	0 21	14 48	1 12	10 35	16 35	18 45	19 0	26 22			n.a.
W22	10 8	18 36	5 13	18 46	2 14	3 7	1 42	20 29	0 51	6 8	1 14	17 51	1 53	12 42	0 21	14 49	1 12	10 35	16 34	18 45	18 59	26 22			n.a.
T 23	10 31	13 20	5 3	18 38	2 5	2 38	1 42	20 40	0 52	6 3	1 14	17 50	1 53	12 44	0 21	14 49	1 12	10 35	16 34	18 44	18 59	26 21			n.a.
F 24	10 53	7 26	4 34	18 26	1 54	2 8	1 43	20 51	0 52	5 59	1 15	17 49	1 53	12 45	0 21	14 49	1 12	10 36	16 34	18 43	18 58	26 20			n.a.
S 25	11 14	1 15	3 51	18 10	1 42	1 38	1 43	21 2	0 53	5 55	1 15	17 48	1 53	12 46	0 21	14 49	1 12	10 36	16 34	18 42	18 57	26 20			n.a.
S 26	11 36	4n54	2 54	17 48	1 27	1 8	1 43	21 13	0 53	5 50	1 15	17 47	1 53	12 47	0 21	14 49	1 12	10 36	16 34	18 41	18 56	26 19			n.a.
M27	11 58	10 44	1 50	17 22	1 12	0 38	1 43	21 23	0 54	5 46	1 15	17 46	1 53	12 49	0 21	14 49	1 12	10 36	16 34	18 41	18 55	26 19			n.a.
T 28	12 19	16 0	0 40	16 51	0 54	0 8	1 43	21 33	0 54	5 42	1 15	17 45	1 53	12 50	0 21	14 49	1 12	10 37	16 34	18 40	18 55	26 18			n.a.
W29	12 40	20 26	0n29	16 15	0 36	0s22	1 43	21 43	0 54	5 38	1 15	17 44	1 53	12 51	0 21	14 49	1 12	10 37	16 34	18 40	18 54	26 17			n.a.
T 30	13 1	23 52	1 37	15 36	0 16	0 52	1 42	21 52	0 55	5 33	1 16	17 43	1 53	12 52	0 21	14 50	1 12	10 37	16 33	18 40	18 53	26 17			n.a.
F 31	13s22	26n 8	2n38	14s53	0n 4	1s22	1n42	22s 2	0s55	5n29	1n16	17n42	1s53	12s54	0n21	14s50	1s12	10s37	16s33	18n41	18n52	26n16			n.a.

Julian Day Number = 1677866.5, Delta T = 03h17m04s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'44, Lahiri = - 5°35'44 Julian Calendar 1 Oct. 120 BCE == Greg. Calendar 28 Sept. 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

NOVEMBER 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 28 27	6♏ 6'01	4♋43	8°R34	8♎32	4♐26	19♍22	26°R 8	4♏44	23°R55	11°R26	22♉49	23♉29	21♋42	n.a.	S 1
S 2	2 32 23	7° 6'59	16°36	7♏11	9°47	5°12	19°33	26♉ 4	4°48	23♒55	11♈25	22°50	23°26	21°49	n.a.	S 2
M 3	2 36 20	8° 7'58	28°27	5°49	11° 2	5°59	19°43	25°59	4°52	23°55	11°24	22°51	23°23	21°56	n.a.	M 3
T 4	2 40 16	9° 8'59	10♌21	4°30	12°16	6°45	19°54	25°54	4°56	23°55	11°23	22°R52	23°20	22° 2	n.a.	T 4
W 5	2 44 13	10°10'01	22°21	3°16	13°31	7°31	20° 4	25°50	4°59	23°55	11°22	22°51	23°17	22° 9	n.a.	W 5
T 6	2 48 9	11°11'04	4♍32	2° 9	14°46	8°18	20°15	25°45	5° 3	23°55	11°21	22°50	23°13	22°16	n.a.	T 6
F 7	2 52 6	12°12'09	17° 0	1°13	16° 1	9° 4	20°25	25°40	5° 7	23°55	11°20	22°49	23°10	22°22	n.a.	F 7
S 8	2 56 2	13°13'14	29°47	0°26	17°16	9°50	20°35	25°35	5°10	23°D55	11°19	22°48	23° 7	22°29	n.a.	S 8
S 9	2 59 59	14°14'21	12♎55	29♎52	18°31	10°37	20°45	25°31	5°14	23°55	11°18	22°46	23° 4	22°36	n.a.	S 9
M10	3 3 56	15°15'28	26°25	29°28	19°46	11°23	20°55	25°26	5°18	23°55	11°17	22°45	23° 1	22°43	n.a.	M10
T 11	3 7 52	16°16'37	10♏15	29°15	21° 1	12°10	21° 5	25°21	5°21	23°55	11°16	22°45	22°58	22°49	n.a.	T 11
W12	3 11 49	17°17'47	24°24	29°D14	22°16	12°57	21°15	25°16	5°25	23°55	11°15	22°D45	22°54	22°56	n.a.	W12
T 13	3 15 45	18°18'57	8♐46	29°22	23°31	13°43	21°25	25°11	5°29	23°55	11°14	22°45	22°51	23° 3	n.a.	T 13
F 14	3 19 42	19°20'08	23°15	29°39	24°46	14°30	21°34	25° 6	5°32	23°55	11°14	22°45	22°48	23° 9	n.a.	F 14
S 15	3 23 38	20°21'19	7♑47	0♏ 5	26° 1	15°17	21°44	25° 1	5°36	23°55	11°13	22°45	22°45	23°16	n.a.	S 15
S 16	3 27 35	21°22'31	22°17	0°38	27°16	16° 3	21°53	24°56	5°40	23°56	11°12	22°46	22°42	23°23	n.a.	S 16
M17	3 31 32	22°23'43	6♒38	1°18	28°31	16°50	22° 3	24°51	5°43	23°56	11°11	22°R46	22°38	23°29	n.a.	M17
T 18	3 35 28	23°24'55	20°50	2° 4	29°46	17°37	22°12	24°46	5°47	23°56	11°10	22°D46	22°35	23°36	n.a.	T 18
W19	3 39 25	24°26'08	4♓48	2°56	1♏ 2	18°24	22°21	24°41	5°50	23°57	11° 9	22°46	22°32	23°43	n.a.	W19
T 20	3 43 21	25°27'20	18°33	3°51	2°17	19°11	22°30	24°36	5°54	23°57	11° 9	22°46	22°29	23°50	n.a.	T 20
F 21	3 47 18	26°28'33	2♈ 5	4°52	3°32	19°58	22°39	24°31	5°58	23°58	11° 8	22°46	22°26	23°56	n.a.	F 21
S 22	3 51 14	27°29'46	15°22	5°55	4°47	20°45	22°47	24°26	6° 1	23°58	11° 7	22°47	22°23	24° 3	n.a.	S 22
S 23	3 55 11	28°30'59	28°26	7° 2	6° 2	21°31	22°56	24°21	6° 5	23°58	11° 6	22°47	22°19	24°10	n.a.	S 23
M24	3 59 7	29°32'12	11♉18	8°11	7°17	22°18	23° 4	24°16	6° 8	23°59	11° 6	22°48	22°16	24°16	n.a.	M24
T 25	4 3 4	0♐33'25	23°56	9°23	8°32	23° 5	23°13	24°11	6°12	24° 0	11° 5	22°R48	22°13	24°23	n.a.	T 25
W26	4 7 1	1°34'39	6♊23	10°38	9°48	23°52	23°21	24° 6	6°15	24° 0	11° 4	22°48	22°10	24°30	n.a.	W26
T 27	4 10 57	2°35'53	18°39	11°54	11° 3	24°40	23°29	24° 1	6°18	24° 1	11° 4	22°47	22° 7	24°37	n.a.	T 27
F 28	4 14 54	3°37'07	0♋45	13°11	12°18	25°27	23°37	23°57	6°22	24° 2	11° 3	22°45	22° 4	24°43	n.a.	F 28
S 29	4 18 50	4°38'21	12°43	14°31	13°33	26°14	23°45	23°52	6°25	24° 2	11° 2	22°44	22° 0	24°50	n.a.	S 29
S 30	4 22 47	5♐39'36	24♋36	15♏51	14♏49	27♐ 1	23♍53	23♉47	6♏29	24♒ 3	11♈ 2	22♉42	21♉57	24♋57	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13 s42	27n 9	3n32	14 s 8	0n25	1 s52	1n42	22 s11	0 s56	5n25	1n16	17n41	1 s53	12 s55	0n21	14 s50	1 s12	10 s38	16 s33	18n41	18n51	26n15		n.a.
S 2	14 3	26 53	4 15	13 21	0 45	2 22	1 41	22 20	0 56	5 21	1 16	17 40	1 53	12 56	0 21	14 50	1 12	10 38	16 33	18 42	18 51	26 15		n.a.
M 3	14 23	25 24	4 48	12 35	1 5	2 52	1 41	22 28	0 56	5 17	1 16	17 39	1 53	12 57	0 21	14 50	1 12	10 38	16 33	18 42	18 50	26 14		n.a.
T 4	14 42	22 48	5 9	11 51	1 23	3 22	1 40	22 37	0 57	5 13	1 16	17 37	1 53	12 59	0 21	14 50	1 12	10 38	16 33	18 42	18 49	26 13		n.a.
W 5	15 2	19 12	5 16	11 10	1 40	3 52	1 40	22 45	0 57	5 9	1 17	17 36	1 53	13 0	0 21	14 50	1 12	10 39	16 32	18 42	18 48	26 13		n.a.
T 6	15 21	14 45	5 10	10 33	1 56	4 22	1 39	22 53	0 58	5 5	1 17	17 35	1 53	13 1	0 21	14 50	1 12	10 39	16 32	18 41	18 47	26 12		n.a.
F 7	15 40	9 37	4 49	10 1	2 9	4 52	1 38	23 1	0 58	5 1	1 17	17 34	1 53	13 2	0 21	14 50	1 12	10 39	16 32	18 41	18 47	26 11		n.a.
S 8	15 59	3 57	4 13	9 35	2 19	5 22	1 37	23 8	0 58	4 57	1 17	17 33	1 53	13 4	0 21	14 50	1 12	10 39	16 32	18 41	18 46	26 11		n.a.
S 9	16 18	2 s 2	3 23	9 14	2 28	5 51	1 36	23 15	0 59	4 53	1 17	17 32	1 53	13 5	0 21	14 50	1 12	10 39	16 32	18 40	18 45	26 10		n.a.
M10	16 36	8 7	2 21	9 0	2 35	6 21	1 35	23 22	0 59	4 49	1 17	17 31	1 53	13 6	0 21	14 50	1 12	10 40	16 31	18 40	18 44	26 9		n.a.
T 11	16 54	13 59	1 9	8 51	2 40	6 50	1 34	23 29	0 59	4 45	1 18	17 30	1 53	13 7	0 21	14 50	1 12	10 40	16 31	18 40	18 43	26 9		n.a.
W12	17 11	19 14	0 s 9	8 48	2 43	7 20	1 33	23 36	1 0	4 42	1 18	17 29	1 53	13 9	0 21	14 50	1 12	10 40	16 31	18 40	18 43	26 8		n.a.
T 13	17 29	23 27	1 28	8 49	2 44	7 49	1 32	23 42	1 0	4 38	1 18	17 27	1 52	13 10	0 21	14 49	1 12	10 40	16 31	18 40	18 42	26 7		n.a.
F 14	17 46	26 13	2 41	8 55	2 44	8 18	1 31	23 48	1 0	4 34	1 18	17 26	1 52	13 11	0 21	14 49	1 12	10 40	16 31	18 40	18 41	26 6		n.a.
S 15	18 2	27 13	3 45	9 6	2 43	8 46	1 29	23 53	1 1	4 31	1 18	17 25	1 52	13 12	0 21	14 49	1 12	10 40	16 30	18 40	18 40	26 6		n.a.
S 16	18 19	26 21	4 34	9 19	2 40	9 15	1 28	23 59	1 1	4 27	1 19	17 24	1 52	13 14	0 21	14 49	1 12	10 40	16 30	18 40	18 39	26 5		n.a.
M17	18 35	23 44	5 5	9 37	2 37	9 43	1 27	24 4	1 1	4 24	1 19	17 23	1 52	13 15	0 21	14 49	1 12	10 40	16 30	18 40	18 38	26 4		n.a.
T 18	18 50	19 43	5 17	9 56	2 33	10 12	1 25	24 9	1 1	4 20	1 19	17 22	1 52	13 16	0 21	14 49	1 11	10 40	16 30	18 40	18 38	26 3		n.a.
W19	19 6	14 39	5 10	10 18	2 28	10 40	1 23	24 13	1 2	4 17	1 19	17 21	1 52	13 17	0 21	14 49	1 11	10 41	16 29	18 40	18 37	26 3		n.a.
T 20	19 21	8 57	4 46	10 43	2 23	11 7	1 22	24 18	1 2	4 13	1 19	17 20	1 52	13 18	0 21	14 49	1 11	10 41	16 29	18 40	18 36	26 2		n.a.
F 21	19 35	2 55	4 6	11 8	2 17	11 35	1 20	24 22	1 2	4 10	1 20	17 18	1 52	13 20	0 21	14 48	1 11	10 41	16 29	18 40	18 35	26 1		n.a.
S 22	19 49	3n 9	3 13	11 35	2 11	12 2	1 18	24 25	1 2	4 7	1 20	17 17	1 52	13 21	0 21	14 48	1 11	10 41	16 29	18 41	18 34	26 0		n.a.
S 23	20 3	9 0	2 11	12 4	2 4	12 29	1 17	24 29	1 3	4 3	1 20	17 16	1 52	13 22	0 21	14 48	1 11	10 41	16 28	18 41	18 34	25 59		n.a.
M24	20 17	14 23	1 3	12 33	1 57	12 55	1 15	24 32	1 3	4 0	1 20	17 15	1 52	13 23	0 21	14 48	1 11	10 41	16 28	18 41	18 33	25 59		n.a.
T 25	20 30	19 4	0n 6	13 3	1 50	13 22	1 13	24 35	1 3	3 57	1 20	17 14	1 51	13 24	0 21	14 48	1 11	10 41	16 28	18 41	18 32	25 58		n.a.
W26	20 43	22 51	1 15	13 33	1 43	13 47	1 11	24 37	1 3	3 54	1 21	17 13	1 51	13 25	0 21	14 47	1 11	10 41	16 27	18 41	18 31	25 57		n.a.
T 27	20 55	25 31	2 18	14 4	1 35	14 13	1 9	24 40	1 4	3 51	1 21	17 12	1 51	13 27	0 21	14 47	1 11	10 41	16 27	18 41	18 30	25 56		n.a.
F 28	21 7	26 58	3 15	14 35	1 28	14 38	1 7	24 42	1 4	3 48	1 21	17 11	1 51	13 28	0 21	14 47	1 11	10 41	16 27	18 40	18 29	25 55		n.a.
S 29	21 18	27 7	4 2	15 6	1 20	15 3	1 5	24 43	1 4	3 45	1 21	17 10	1 51	13 29	0 21	14 47	1 11	10 41	16 27	18 40	18 29	25 54		n.a.
S 30	21 s30	26n 1	4n39	15 s37	1n12	15 s28	1n 3	24 s45	1 s 4	3n42	1n22	17n 9	1 s51	13 s30	0n21	14 s46	1 s11	10 s41	16 s26	18n39	18n28	25n53		n.a.

Julian Day Number = 1677897.5, Delta T = 03h17m03s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'40, Lahiri = - 5°35'40 Julian Calendar 1 Nov. 120 BCE == Greg. Calendar 29 Oct. 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 120 BCE
geocentric

DECEMBER 120 BCE (-119) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 26 43	6♐40'51	6♌27	17♏13	16♏ 4	27♐48	24♍ 0	23°R42	6♏32	24♒ 4	11°R 1	22°R40	21♉54	25♋ 3	n.a.	M 1
T 2	4 30 40	7°42'06	18°19	18°36	17°19	28°35	24° 8	23♉37	6°35	24° 5	11♈ 1	22♉38	21°51	25°10	n.a.	T 2
W 3	4 34 36	8°43'21	0♍17	19°59	18°34	29°22	24°15	23°33	6°39	24° 5	11° 0	22°37	21°48	25°17	n.a.	W 3
T 4	4 38 33	9°44'36	12°26	21°24	19°49	0♑10	24°22	23°28	6°42	24° 6	11° 0	22°D37	21°44	25°24	n.a.	T 4
F 5	4 42 30	10°45'52	24°49	22°50	21° 5	0°57	24°29	23°23	6°45	24° 7	10°59	22°37	21°41	25°30	n.a.	F 5
S 6	4 46 26	11°47'07	7♎32	24°16	22°20	1°44	24°36	23°19	6°48	24° 8	10°59	22°39	21°38	25°37	n.a.	S 6
S 7	4 50 23	12°48'23	20°37	25°42	23°35	2°31	24°43	23°14	6°52	24° 9	10°58	22°40	21°35	25°44	n.a.	S 7
M 8	4 54 19	13°49'38	4♏ 9	27°10	24°50	3°19	24°49	23° 9	6°55	24°10	10°58	22°42	21°32	25°50	n.a.	M 8
T 9	4 58 16	14°50'54	18° 6	28°38	26° 6	4° 6	24°56	23° 5	6°58	24°11	10°57	22°R42	21°29	25°57	n.a.	T 9
W10	5 2 12	15°52'10	2♐29	0♐ 7	27°21	4°53	25° 2	23° 1	7° 1	24°12	10°57	22°42	21°25	26° 4	n.a.	W10
T 11	5 6 9	16°53'25	17°11	1°36	28°36	5°40	25° 8	22°56	7° 4	24°13	10°56	22°41	21°22	26°10	n.a.	T 11
F 12	5 10 5	17°54'40	2♑ 7	3° 6	29°51	6°28	25°14	22°52	7° 7	24°14	10°56	22°38	21°19	26°17	n.a.	F 12
S 13	5 14 2	18°55'54	17° 8	4°36	1♐ 7	7°15	25°20	22°48	7°10	24°16	10°56	22°34	21°16	26°24	n.a.	S 13
S 14	5 17 59	19°57'08	2♒ 5	6° 7	2°22	8° 3	25°26	22°44	7°13	24°17	10°55	22°30	21°13	26°31	n.a.	S 14
M15	5 21 55	20°58'21	16°49	7°38	3°37	8°50	25°31	22°40	7°16	24°18	10°55	22°27	21°10	26°37	n.a.	M15
T 16	5 25 52	21°59'33	1♓15	9°10	4°52	9°37	25°36	22°35	7°19	24°19	10°55	22°24	21° 6	26°44	n.a.	T 16
W17	5 29 48	23° 0'44	15°19	10°42	6° 8	10°25	25°42	22°32	7°22	24°21	10°55	22°22	21° 3	26°51	n.a.	W17
T 18	5 33 45	24° 1'54	29° 2	12°15	7°23	11°12	25°47	22°28	7°25	24°22	10°54	22°D22	21° 0	26°57	n.a.	T 18
F 19	5 37 41	25° 3'03	12♈22	13°48	8°38	11°59	25°52	22°24	7°28	24°23	10°54	22°23	20°57	27° 4	n.a.	F 19
S 20	5 41 38	26° 4'11	25°24	15°22	9°53	12°47	25°56	22°20	7°30	24°25	10°54	22°25	20°54	27°11	n.a.	S 20
S 21	5 45 35	27° 5'18	8♉ 9	16°56	11° 9	13°34	26° 1	22°17	7°33	24°26	10°54	22°26	20°50	27°18	n.a.	S 21
M22	5 49 31	28° 6'24	20°40	18°31	12°24	14°22	26° 5	22°13	7°36	24°27	10°54	22°R27	20°47	27°24	n.a.	M22
T 23	5 53 28	29° 7'30	3♊ 0	20° 7	13°39	15° 9	26° 9	22° 9	7°38	24°29	10°54	22°27	20°44	27°31	n.a.	T 23
W24	5 57 24	0♑ 8'34	15°12	21°43	14°54	15°56	26°13	22° 6	7°41	24°30	10°53	22°24	20°41	27°38	n.a.	W24
T 25	6 1 21	1° 9'37	27°16	23°19	16° 9	16°44	26°17	22° 3	7°44	24°32	10°53	22°20	20°38	27°44	n.a.	T 25
F 26	6 5 17	2°10'40	9♋15	24°57	17°24	17°31	26°21	22° 0	7°46	24°33	10°53	22°13	20°35	27°51	n.a.	F 26
S 27	6 9 14	3°11'41	21°10	26°34	18°40	18°19	26°24	21°56	7°49	24°35	10°53	22° 6	20°31	27°58	n.a.	S 27
S 28	6 13 10	4°12'42	3♌ 2	28°13	19°55	19° 6	26°28	21°53	7°51	24°37	10°D53	21°57	20°28	28° 5	n.a.	S 28
M29	6 17 7	5°13'41	14°53	29°52	21°10	19°53	26°31	21°51	7°54	24°38	10°53	21°49	20°25	28°11	n.a.	M29
T 30	6 21 4	6°14'40	26°47	1♑32	22°25	20°41	26°34	21°48	7°56	24°40	10°53	21°41	20°22	28°18	n.a.	T 30
W31	6 25 0	7♑15'37	8♍45	3♑12	23♐40	21♑28	26♍37	21♉45	7♏58	24♒41	10♈53	21♉35	20♉19	28♋25	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	21s40	23n46	5n 3	16s 8	1n 5	15s52	1n 1	24s46	1s 4	3n39	1n22	17n 7	1s51	13s31	0n21	14s46	1s11	10s41	16s26	18n39	18n27	25n53			n.a.
T 2	21 51	20 29	5 15	16 39	0 57	16 15	0 59	24 47	1 5	3 37	1 22	17 6	1 51	13 32	0 21	14 46	1 11	10 41	16 26	18 38	18 26	25 52			n.a.
W 3	22 0	16 22	5 13	17 9	0 49	16 38	0 57	24 47	1 5	3 34	1 22	17 5	1 50	13 33	0 21	14 45	1 11	10 40	16 25	18 38	18 25	25 51			n.a.
T 4	22 10	11 32	4 57	17 39	0 41	17 1	0 54	24 48	1 5	3 31	1 22	17 4	1 50	13 34	0 21	14 45	1 11	10 40	16 25	18 38	18 24	25 50			n.a.
F 5	22 19	6 10	4 27	18 9	0 34	17 24	0 52	24 48	1 5	3 29	1 23	17 3	1 50	13 35	0 21	14 45	1 11	10 40	16 25	18 38	18 24	25 49			n.a.
S 6	22 27	0 24	3 44	18 38	0 26	17 45	0 50	24 47	1 5	3 26	1 23	17 2	1 50	13 37	0 21	14 44	1 11	10 40	16 24	18 38	18 23	25 48			n.a.
S 7	22 35	5s33	2 48	19 6	0 19	18 7	0 48	24 47	1 5	3 24	1 23	17 1	1 50	13 38	0 21	14 44	1 11	10 40	16 24	18 39	18 22	25 47			n.a.
M 8	22 43	11 28	1 41	19 34	0 11	18 28	0 45	24 46	1 6	3 21	1 23	17 0	1 50	13 39	0 21	14 44	1 11	10 40	16 24	18 39	18 21	25 46			n.a.
T 9	22 50	17 1	0 25	20 1	0 4	18 48	0 43	24 45	1 6	3 19	1 24	16 59	1 49	13 40	0 21	14 43	1 11	10 40	16 23	18 39	18 20	25 45			n.a.
W10	22 57	21 46	0s54	20 28	0s 3	19 8	0 40	24 43	1 6	3 17	1 24	16 58	1 49	13 41	0 21	14 43	1 11	10 40	16 23	18 39	18 19	25 44			n.a.
T 11	23 3	25 15	2 11	20 53	0 10	19 27	0 38	24 41	1 6	3 14	1 24	16 57	1 49	13 42	0 21	14 43	1 11	10 40	16 23	18 39	18 19	25 43			n.a.
F 12	23 9	27 1	3 20	21 18	0 17	19 46	0 36	24 39	1 6	3 12	1 24	16 57	1 49	13 43	0 21	14 42	1 11	10 39	16 22	18 38	18 18	25 43			n.a.
S 13	23 15	26 49	4 16	21 42	0 24	20 4	0 33	24 37	1 6	3 10	1 25	16 56	1 49	13 44	0 21	14 42	1 11	10 39	16 22	18 37	18 17	25 42			n.a.
S 14	23 20	24 41	4 54	22 5	0 31	20 22	0 31	24 34	1 6	3 8	1 25	16 55	1 49	13 45	0 21	14 41	1 11	10 39	16 22	18 36	18 16	25 41			n.a.
M15	23 24	20 55	5 12	22 27	0 38	20 39	0 28	24 31	1 6	3 6	1 25	16 54	1 48	13 46	0 21	14 41	1 11	10 39	16 21	18 35	18 15	25 40			n.a.
T 16	23 28	15 57	5 9	22 48	0 44	20 56	0 26	24 28	1 7	3 4	1 26	16 53	1 48	13 47	0 21	14 40	1 11	10 39	16 21	18 35	18 14	25 39			n.a.
W17	23 31	10 16	4 48	23 8	0 50	21 12	0 23	24 24	1 7	3 2	1 26	16 52	1 48	13 48	0 21	14 40	1 11	10 38	16 21	18 34	18 13	25 38			n.a.
T 18	23 34	4 14	4 11	23 27	0 56	21 27	0 21	24 20	1 7	3 1	1 26	16 52	1 48	13 49	0 21	14 39	1 11	10 38	16 20	18 34	18 13	25 37			n.a.
F 19	23 37	1n51	3 22	23 45	1 2	21 41	0 18	24 16	1 7	2 59	1 26	16 51	1 48	13 49	0 21	14 39	1 11	10 38	16 20	18 34	18 12	25 36			n.a.
S 20	23 39	7 43	2 22	24 1	1 8	21 55	0 16	24 12	1 7	2 57	1 27	16 50	1 47	13 50	0 21	14 38	1 11	10 38	16 20	18 35	18 11	25 35			n.a.
S 21	23 41	13 10	1 17	24 16	1 13	22 9	0 13	24 7	1 7	2 56	1 27	16 49	1 47	13 51	0 21	14 38	1 11	10 37	16 19	18 35	18 10	25 34			n.a.
M22	23 42	17 58	0 10	24 31	1 18	22 22	0 11	24 2	1 7	2 54	1 27	16 49	1 47	13 52	0 21	14 37	1 10	10 37	16 19	18 36	18 9	25 33			n.a.
T 23	23 42	21 56	0n57	24 43	1 23	22 34	0 8	23 57	1 7	2 53	1 27	16 48	1 47	13 53	0 21	14 37	1 10	10 37	16 19	18 35	18 8	25 32			n.a.
W24	23 43	24 52	2 1	24 55	1 28	22 45	0 6	23 51	1 7	2 51	1 28	16 47	1 46	13 54	0 21	14 36	1 10	10 37	16 18	18 35	18 8	25 31			n.a.
T 25	23 42	26 39	2 58	25 5	1 32	22 56	0 3	23 45	1 7	2 50	1 28	16 47	1 46	13 55	0 21	14 36	1 10	10 36	16 18	18 34	18 7	25 29			n.a.
F 26	23 42	27 9	3 46	25 13	1 37	23 6	0 1	23 39	1 7	2 49	1 28	16 46	1 46	13 56	0 21	14 35	1 10	10 36	16 18	18 32	18 6	25 28			n.a.
S 27	23 40	26 23	4 25	25 20	1 41	23 15	0s 2	23 33	1 7	2 48	1 28	16 45	1 46	13 56	0 21	14 35	1 10	10 36	16 17	18 30	18 5	25 27			n.a.
S 28	23 39	24 26	4 52	25 26	1 44	23 23	0 4	23 26	1 7	2 47	1 29	16 45	1 46	13 57	0 21	14 34	1 10	10 35	16 17	18 28	18 4	25 26			n.a.
M29	23 36	21 25	5 6	25 30	1 48	23 31	0 7	23 19	1 7	2 46	1 29	16 44	1 45	13 58	0 21	14 34	1 10	10 35	16 17	18 26	18 3	25 25			n.a.
T 30	23 34	17 31	5 7	25 33	1 51	23 38	0 9	23 12	1 7	2 45	1 29	16 44	1 45	13 59	0 21	14 33	1 10	10 35	16 16	18 24	18 2	25 24			n.a.
W31	23s31	12n55	4n55	25s34	1s53	23s45	0s11	23s 5	1s 7	2n44	1n30	16n43	1s45	13s59	0n21	14s33	1s10	10s34	16s16	18n22	18n 2	25n23			n.a.

Julian Day Number = 1677927.5, Delta T = 03h17m02s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'36, Lahiri = - 5°35'36 Julian Calendar 1 Dec. 120 BCE == Greg. Calendar 28 Nov. 120 BCE

The year -119 astronomical counting style corresponds to year 120 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

JANUARY 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 28 57	8♑16'34	20♍51	4♑53	24♐55	22♑16	26♍39	21°R42	8♏ 1	24♒43	10♈53	21°R32	20♉16	28♋31	n.a.	T 1
F 2	6 32 53	9°17'30	3♎10	6°35	26°10	23° 3	26°42	21♉40	8° 3	24°45	10°53	21♉30	20°12	28°38	n.a.	F 2
S 3	6 36 50	10°18'25	15°46	8°18	27°26	23°50	26°44	21°37	8° 5	24°47	10°54	21°D30	20° 9	28°45	n.a.	S 3
S 4	6 40 46	11°19'19	28°44	10° 1	28°41	24°38	26°46	21°35	8° 7	24°48	10°54	21°31	20° 6	28°52	n.a.	S 4
M 5	6 44 43	12°20'12	12♏ 7	11°45	29°56	25°25	26°48	21°33	8° 9	24°50	10°54	21°32	20° 3	28°58	n.a.	M 5
T 6	6 48 39	13°21'04	25°58	13°30	1♑11	26°12	26°49	21°31	8°11	24°52	10°54	21°R32	20° 0	29° 5	n.a.	T 6
W 7	6 52 36	14°21'55	10♐18	15°15	2°26	27° 0	26°51	21°29	8°14	24°54	10°54	21°30	19°56	29°12	n.a.	W 7
T 8	6 56 33	15°22'44	25° 5	17° 1	3°41	27°47	26°52	21°27	8°15	24°55	10°54	21°26	19°53	29°18	n.a.	T 8
F 9	7 0 29	16°23'33	10♑11	18°48	4°56	28°34	26°53	21°25	8°17	24°57	10°55	21°20	19°50	29°25	n.a.	F 9
S 10	7 4 26	17°24'20	25°28	20°36	6°11	29°22	26°54	21°23	8°19	24°59	10°55	21°12	19°47	29°32	n.a.	S 10
S 11	7 8 22	18°25'06	10♒46	22°24	7°26	0♒ 9	26°55	21°22	8°21	25° 1	10°55	21° 3	19°44	29°39	n.a.	S 11
M12	7 12 19	19°25'50	25°51	24°13	8°41	0°56	26°55	21°20	8°23	25° 3	10°56	20°54	19°41	29°45	n.a.	M12
T 13	7 16 15	20°26'32	10♓37	26° 2	9°57	1°44	26°56	21°19	8°25	25° 5	10°56	20°46	19°37	29°52	n.a.	T 13
W14	7 20 12	21°27'12	24°56	27°52	11°12	2°31	26°R56	21°17	8°26	25° 7	10°56	20°41	19°34	29°59	n.a.	W14
T 15	7 24 9	22°27'51	8♈46	29°42	12°27	3°18	26°56	21°16	8°28	25° 9	10°57	20°38	19°31	0♌ 5	n.a.	T 15
F 16	7 28 5	23°28'27	22° 9	1♒32	13°42	4° 5	26°56	21°15	8°30	25°11	10°57	20°D37	19°28	0°12	n.a.	F 16
S 17	7 32 2	24°29'02	5♉ 8	3°22	14°57	4°53	26°55	21°14	8°31	25°13	10°57	20°38	19°25	0°19	n.a.	S 17
S 18	7 35 58	25°29'35	17°45	5°13	16°12	5°40	26°55	21°13	8°33	25°15	10°58	20°R38	19°22	0°26	n.a.	S 18
M19	7 39 55	26°30'06	0♊ 6	7° 3	17°26	6°27	26°54	21°13	8°34	25°17	10°58	20°38	19°18	0°32	n.a.	M19
T 20	7 43 51	27°30'35	12°15	8°52	18°41	7°14	26°53	21°12	8°36	25°19	10°59	20°35	19°15	0°39	n.a.	T 20
W21	7 47 48	28°31'02	24°16	10°41	19°56	8° 1	26°52	21°12	8°37	25°21	10°59	20°30	19°12	0°46	n.a.	W21
T 22	7 51 44	29°31'27	6♋12	12°28	21°11	8°48	26°50	21°11	8°38	25°23	11° 0	20°23	19° 9	0°53	n.a.	T 22
F 23	7 55 41	0♒31'50	18° 5	14°14	22°26	9°35	26°49	21°11	8°39	25°25	11° 0	20°12	19° 6	0°59	n.a.	F 23
S 24	7 59 38	1°32'12	29°57	15°58	23°41	10°22	26°47	21°11	8°41	25°27	11° 1	19°59	19° 2	1° 6	n.a.	S 24
S 25	8 3 34	2°32'32	11♌49	17°40	24°56	11° 9	26°45	21°D11	8°42	25°29	11° 2	19°45	18°59	1°13	n.a.	S 25
M26	8 7 31	3°32'49	23°44	19°19	26°11	11°56	26°43	21°11	8°43	25°32	11° 2	19°32	18°56	1°19	n.a.	M26
T 27	8 11 27	4°33'05	5♍41	20°54	27°26	12°43	26°41	21°11	8°44	25°34	11° 3	19°19	18°53	1°26	n.a.	T 27
W28	8 15 24	5°33'20	17°44	22°26	28°41	13°30	26°38	21°12	8°45	25°36	11° 3	19° 8	18°50	1°33	n.a.	W28
T 29	8 19 20	6°33'32	29°54	23°52	29°55	14°17	26°36	21°12	8°46	25°38	11° 4	19° 0	18°47	1°40	n.a.	T 29
F 30	8 23 17	7°33'43	12♎15	25°14	1♒10	15° 4	26°33	21°13	8°47	25°40	11° 5	18°55	18°43	1°46	n.a.	F 30
S 31	8 27 13	8♒33'52	24♎49	26♒30	2♒25	15♒51	26♍30	21♉13	8♏47	25♒42	11♈ 6	18♉53	18♉40	1♌53	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23s27	7n47	4n29	25s33	1s56	23s51	0s14	22s57	1s 7	2n43	1n30	16n43	1s45	14s 0	0n21	14s32	1s10	10s34	16s15	18n21	18n 1	25n22			n.a.
F 2	23 23	2 15	3 51	25 30	1 58	23 56	0 16	22 49	1 7	2 42	1 30	16 42	1 44	14 1	0 21	14 31	1 10	10 34	16 15	18 20	18 0	25 21			n.a.
S 3	23 18	3s30	3 0	25 26	1 59	24 0	0 19	22 41	1 7	2 42	1 30	16 42	1 44	14 2	0 21	14 31	1 10	10 33	16 15	18 20	17 59	25 20			n.a.
S 4	23 13	9 17	2 0	25 20	2 1	24 3	0 21	22 32	1 7	2 41	1 31	16 42	1 44	14 2	0 21	14 30	1 10	10 33	16 14	18 21	17 58	25 19			n.a.
M 5	23 8	14 51	0 50	25 12	2 1	24 6	0 23	22 23	1 7	2 41	1 31	16 41	1 44	14 3	0 21	14 30	1 10	10 33	16 14	18 21	17 57	25 17			n.a.
T 6	23 2	19 51	0s24	25 2	2 2	24 8	0 26	22 14	1 7	2 40	1 31	16 41	1 43	14 4	0 21	14 29	1 10	10 32	16 14	18 21	17 56	25 16			n.a.
W 7	22 56	23 53	1 39	24 51	2 2	24 9	0 28	22 5	1 7	2 40	1 32	16 41	1 43	14 4	0 21	14 28	1 10	10 32	16 13	18 21	17 56	25 15			n.a.
T 8	22 49	26 27	2 50	24 37	2 1	24 10	0 30	21 56	1 6	2 40	1 32	16 40	1 43	14 5	0 21	14 28	1 10	10 31	16 13	18 20	17 55	25 14			n.a.
F 9	22 42	27 8	3 50	24 22	2 0	24 10	0 33	21 46	1 6	2 39	1 32	16 40	1 43	14 6	0 21	14 27	1 10	10 31	16 13	18 18	17 54	25 13			n.a.
S 10	22 34	25 47	4 35	24 4	1 59	24 9	0 35	21 36	1 6	2 39	1 32	16 40	1 42	14 6	0 21	14 26	1 10	10 30	16 12	18 16	17 53	25 12			n.a.
S 11	22 26	22 32	5 0	23 45	1 57	24 7	0 37	21 25	1 6	2 39	1 33	16 40	1 42	14 7	0 21	14 26	1 10	10 30	16 12	18 13	17 52	25 11			n.a.
M12	22 17	17 47	5 3	23 23	1 54	24 4	0 39	21 15	1 6	2 39	1 33	16 40	1 42	14 7	0 21	14 25	1 10	10 30	16 12	18 11	17 51	25 9			n.a.
T 13	22 8	12 5	4 47	23 0	1 51	24 1	0 41	21 4	1 6	2 39	1 33	16 40	1 42	14 8	0 21	14 24	1 10	10 29	16 11	18 9	17 50	25 8			n.a.
W14	21 59	5 53	4 12	22 35	1 47	23 57	0 43	20 53	1 6	2 40	1 34	16 39	1 41	14 8	0 21	14 24	1 10	10 29	16 11	18 8	17 49	25 7			n.a.
T 15	21 49	0n24	3 24	22 7	1 43	23 52	0 45	20 42	1 6	2 40	1 34	16 39	1 41	14 9	0 21	14 23	1 10	10 28	16 10	18 7	17 49	25 6			n.a.
F 16	21 39	6 28	2 26	21 38	1 38	23 47	0 47	20 31	1 6	2 40	1 34	16 39	1 41	14 10	0 21	14 22	1 10	10 28	16 10	18 7	17 48	25 5			n.a.
S 17	21 28	12 6	1 22	21 7	1 32	23 41	0 49	20 19	1 5	2 41	1 34	16 39	1 41	14 10	0 21	14 22	1 10	10 27	16 10	18 7	17 47	25 3			n.a.
S 18	21 17	17 4	0 15	20 34	1 26	23 34	0 51	20 7	1 5	2 41	1 35	16 39	1 40	14 10	0 21	14 21	1 10	10 27	16 9	18 7	17 46	25 2			n.a.
M19	21 6	21 13	0n50	20 0	1 19	23 26	0 53	19 55	1 5	2 42	1 35	16 40	1 40	14 11	0 21	14 20	1 10	10 26	16 9	18 7	17 45	25 1			n.a.
T 20	20 54	24 22	1 52	19 23	1 11	23 18	0 55	19 43	1 5	2 42	1 35	16 40	1 40	14 11	0 21	14 19	1 10	10 26	16 9	18 6	17 44	25 0			n.a.
W21	20 41	26 24	2 49	18 46	1 3	23 9	0 57	19 31	1 5	2 43	1 36	16 40	1 40	14 12	0 21	14 19	1 10	10 25	16 8	18 5	17 43	24 58			n.a.
T 22	20 29	27 10	3 37	18 7	0 54	22 59	0 58	19 18	1 5	2 44	1 36	16 40	1 39	14 12	0 21	14 18	1 10	10 25	16 8	18 3	17 42	24 57			n.a.
F 23	20 16	26 41	4 15	17 26	0 44	22 48	1 0	19 5	1 4	2 45	1 36	16 40	1 39	14 13	0 21	14 17	1 10	10 24	16 8	18 0	17 42	24 56			n.a.
S 24	20 3	24 59	4 43	16 45	0 33	22 37	1 2	18 52	1 4	2 46	1 36	16 40	1 39	14 13	0 21	14 17	1 10	10 24	16 7	17 56	17 41	24 55			n.a.
S 25	19 49	22 11	4 58	16 3	0 22	22 25	1 3	18 39	1 4	2 47	1 37	16 41	1 39	14 13	0 21	14 16	1 10	10 23	16 7	17 53	17 40	24 53			n.a.
M26	19 35	18 28	5 0	15 21	0 10	22 13	1 5	18 26	1 4	2 48	1 37	16 41	1 38	14 14	0 21	14 15	1 10	10 23	16 7	17 49	17 39	24 52			n.a.
T 27	19 20	13 59	4 48	14 39	0n 3	22 0	1 6	18 12	1 4	2 49	1 37	16 41	1 38	14 14	0 21	14 14	1 10	10 22	16 6	17 45	17 38	24 51			n.a.
W28	19 6	8 57	4 24	13 56	0 16	21 46	1 8	17 58	1 3	2 50	1 37	16 41	1 38	14 14	0 21	14 14	1 10	10 22	16 6	17 42	17 37	24 50			n.a.
T 29	18 51	3 31	3 48	13 15	0 30	21 31	1 9	17 44	1 3	2 52	1 38	16 42	1 37	14 15	0 21	14 13	1 10	10 21	16 6	17 40	17 36	24 48			n.a.
F 30	18 35	2s 8	3 1	12 34	0 44	21 16	1 11	17 30	1 3	2 53	1 38	16 42	1 37	14 15	0 22	14 12	1 10	10 21	16 5	17 39	17 35	24 47			n.a.
S 31	18s20	7s48	2n 3	11s54	0n59	21s 1	1s12	17s16	1s 3	2n54	1n38	16n43	1s37	14s15	0n22	14s11	1s10	10s20	16s 5	17n38	17n35	24n46			n.a.

Julian Day Number = 1677958.5, Delta T = 03h17m01s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'32, Lahiri = - 5°35'31 Julian Calendar 1 Jan. 119 BCE == Greg. Calendar 29 Dec. 120 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

FEBRUARY 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 31 10	9♒34'00	7♏42	27♒39	3♒40	16♒38	26°R27	21♉14	8♏48	25♒45	11♈ 6	18°D52	18♉37	2♌ 0	n.a.	S 1
M 2	8 35 7	10°34'06	20°57	28°42	4°55	17°25	26♍23	21°15	8°49	25°47	11° 7	18°R52	18°34	2° 6	n.a.	M 2
T 3	8 39 3	11°34'10	4♐37	29°37	6°10	18°11	26°20	21°16	8°50	25°49	11° 8	18♉51	18°31	2°13	n.a.	T 3
W 4	8 43 0	12°34'13	18°45	0♓24	7°24	18°58	26°16	21°17	8°50	25°51	11° 9	18°49	18°28	2°20	n.a.	W 4
T 5	8 46 56	13°34'14	3♑20	1° 3	8°39	19°45	26°12	21°18	8°51	25°53	11° 9	18°44	18°24	2°27	n.a.	T 5
F 6	8 50 53	14°34'13	18°18	1°33	9°54	20°32	26° 8	21°20	8°51	25°56	11°10	18°36	18°21	2°33	n.a.	F 6
S 7	8 54 49	15°34'11	3♒32	1°54	11° 9	21°18	26° 4	21°21	8°52	25°58	11°11	18°26	18°18	2°40	n.a.	S 7
S 8	8 58 46	16°34'06	18°52	2° 7	12°23	22° 5	25°59	21°23	8°52	26° 0	11°12	18°15	18°15	2°47	n.a.	S 8
M 9	9 2 42	17°33'59	4♓ 5	2°R10	13°38	22°51	25°55	21°24	8°52	26° 2	11°13	18° 3	18°12	2°53	n.a.	M 9
T 10	9 6 39	18°33'50	19° 1	2° 5	14°53	23°38	25°50	21°26	8°53	26° 5	11°14	17°53	18° 8	3° 0	n.a.	T 10
W11	9 10 36	19°33'39	3♈32	1°51	16° 8	24°25	25°45	21°28	8°53	26° 7	11°14	17°45	18° 5	3° 7	n.a.	W11
T 12	9 14 32	20°33'25	17°33	1°28	17°22	25°11	25°40	21°30	8°53	26° 9	11°15	17°41	18° 2	3°14	n.a.	T 12
F 13	9 18 29	21°33'09	1♉ 5	0°59	18°37	25°58	25°35	21°32	8°53	26°11	11°16	17°38	17°59	3°20	n.a.	F 13
S 14	9 22 25	22°32'51	14° 8	0°23	19°51	26°44	25°30	21°34	8°53	26°14	11°17	17°38	17°56	3°27	n.a.	S 14
S 15	9 26 22	23°32'30	26°48	29♒40	21° 6	27°30	25°24	21°37	8°R53	26°16	11°18	17°38	17°53	3°34	n.a.	S 15
M16	9 30 18	24°32'07	9♊ 8	28°53	22°21	28°17	25°19	21°39	8°53	26°18	11°19	17°37	17°49	3°40	n.a.	M16
T 17	9 34 15	25°31'42	21°14	28° 2	23°35	29° 3	25°13	21°42	8°53	26°21	11°20	17°35	17°46	3°47	n.a.	T 17
W18	9 38 11	26°31'14	3♋11	27° 9	24°50	29°49	25° 7	21°44	8°53	26°23	11°21	17°30	17°43	3°54	n.a.	W18
T 19	9 42 8	27°30'44	15° 3	26°14	26° 4	0♓35	25° 1	21°47	8°53	26°25	11°22	17°22	17°40	4° 1	n.a.	T 19
F 20	9 46 4	28°30'12	26°54	25°19	27°19	1°22	24°55	21°50	8°53	26°27	11°23	17°12	17°37	4° 7	n.a.	F 20
S 21	9 50 1	29°29'37	8♌46	24°25	28°34	2° 8	24°49	21°53	8°52	26°30	11°24	16°59	17°33	4°14	n.a.	S 21
S 22	9 53 58	0♓29'00	20°41	23°33	29°48	2°54	24°43	21°56	8°52	26°32	11°25	16°45	17°30	4°21	n.a.	S 22
M23	9 57 54	1°28'21	2♍41	22°44	1♓ 3	3°40	24°36	21°59	8°52	26°34	11°26	16°32	17°27	4°28	n.a.	M23
T 24	10 1 51	2°27'40	14°46	21°58	2°17	4°26	24°30	22° 2	8°51	26°36	11°27	16°19	17°24	4°34	n.a.	T 24
W25	10 5 47	3°26'56	26°59	21°17	3°31	5°12	24°23	22° 6	8°51	26°39	11°29	16° 8	17°21	4°41	n.a.	W25
T 26	10 9 44	4°26'11	9♎20	20°41	4°46	5°58	24°16	22° 9	8°50	26°41	11°30	16° 0	17°18	4°48	n.a.	T 26
F 27	10 13 40	5°25'23	21°50	20°10	6° 0	6°44	24° 9	22°13	8°49	26°43	11°31	15°55	17°14	4°54	n.a.	F 27
S 28	10 17 37	6♓24'34	4♏32	19♒45	7♓15	7♓30	24♍ 2	22♉16	8♏49	26♒45	11♈32	15♉53	17♉11	5♌ 1	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	18s 4	13s19	0n59	11s16	1n14	20s44	1s13	17s 1	1s 2	2n56	1n38	16n43	1s37	14s15	0n22	14s11	1s10	10s19	16s 5	17n38	17n34	24n44			n.a.
M 2	17 47	18 22	0s11	10 41	1 28	20 27	1 14	16 47	1 2	2 57	1 39	16 44	1 36	14 16	0 22	14 10	1 10	10 19	16 5	17 38	17 33	24 43			n.a.
T 3	17 31	22 39	1 22	10 7	1 43	20 10	1 15	16 32	1 2	2 59	1 39	16 44	1 36	14 16	0 22	14 9	1 10	10 18	16 4	17 38	17 32	24 42			n.a.
W 4	17 14	25 44	2 31	9 37	1 58	19 52	1 16	16 17	1 2	3 1	1 39	16 45	1 36	14 16	0 22	14 8	1 10	10 18	16 4	17 37	17 31	24 40			n.a.
T 5	16 56	27 12	3 32	9 9	2 13	19 33	1 18	16 2	1 1	3 3	1 39	16 45	1 36	14 16	0 22	14 8	1 10	10 17	16 4	17 36	17 30	24 39			n.a.
F 6	16 39	26 44	4 20	8 46	2 27	19 14	1 18	15 47	1 1	3 4	1 40	16 46	1 35	14 16	0 22	14 7	1 10	10 17	16 3	17 33	17 29	24 38			n.a.
S 7	16 21	24 17	4 50	8 25	2 40	18 54	1 19	15 31	1 1	3 6	1 40	16 47	1 35	14 16	0 22	14 6	1 10	10 16	16 3	17 31	17 28	24 36			n.a.
S 8	16 3	20 5	5 0	8 9	2 53	18 34	1 20	15 16	1 1	3 8	1 40	16 47	1 35	14 17	0 22	14 5	1 10	10 15	16 3	17 27	17 27	24 35			n.a.
M 9	15 45	14 35	4 48	7 57	3 5	18 13	1 21	15 0	1 0	3 10	1 40	16 48	1 35	14 17	0 22	14 5	1 10	10 15	16 2	17 24	17 27	24 34			n.a.
T 10	15 26	8 20	4 17	7 49	3 15	17 51	1 22	14 44	1 0	3 12	1 41	16 49	1 34	14 17	0 22	14 4	1 10	10 14	16 2	17 21	17 26	24 32			n.a.
W11	15 7	1 47	3 30	7 45	3 25	17 29	1 22	14 28	1 0	3 15	1 41	16 49	1 34	14 17	0 22	14 3	1 10	10 14	16 2	17 19	17 25	24 31			n.a.
T 12	14 48	4n38	2 32	7 46	3 33	17 7	1 23	14 12	0 59	3 17	1 41	16 50	1 34	14 17	0 22	14 2	1 10	10 13	16 2	17 18	17 24	24 29			n.a.
F 13	14 29	10 38	1 26	7 51	3 39	16 44	1 23	13 56	0 59	3 19	1 41	16 51	1 34	14 17	0 22	14 1	1 10	10 12	16 1	17 17	17 23	24 28			n.a.
S 14	14 9	15 58	0 18	7 59	3 43	16 21	1 24	13 40	0 59	3 21	1 41	16 52	1 33	14 17	0 22	14 1	1 10	10 12	16 1	17 17	17 22	24 27			n.a.
S 15	13 50	20 27	0n48	8 12	3 46	15 57	1 24	13 23	0 58	3 24	1 42	16 53	1 33	14 17	0 22	14 0	1 10	10 11	16 1	17 17	17 21	24 25			n.a.
M16	13 30	23 54	1 51	8 28	3 46	15 33	1 25	13 7	0 58	3 26	1 42	16 53	1 33	14 17	0 22	13 59	1 10	10 10	16 1	17 17	17 20	24 24			n.a.
T 17	13 9	26 12	2 48	8 46	3 45	15 9	1 25	12 50	0 58	3 29	1 42	16 54	1 33	14 17	0 22	13 58	1 10	10 10	16 0	17 16	17 19	24 22			n.a.
W18	12 49	27 16	3 36	9 8	3 42	14 44	1 25	12 33	0 57	3 31	1 42	16 55	1 32	14 17	0 22	13 58	1 10	10 9	16 0	17 15	17 18	24 21			n.a.
T 19	12 28	27 4	4 14	9 31	3 36	14 18	1 25	12 17	0 57	3 34	1 42	16 56	1 32	14 17	0 22	13 57	1 10	10 9	16 0	17 13	17 18	24 19			n.a.
F 20	12 8	25 37	4 42	9 57	3 29	13 52	1 25	12 0	0 57	3 36	1 42	16 57	1 32	14 17	0 22	13 56	1 10	10 8	16 0	17 10	17 17	24 18			n.a.
S 21	11 47	23 2	4 57	10 23	3 21	13 26	1 25	11 43	0 56	3 39	1 43	16 58	1 32	14 16	0 22	13 55	1 10	10 7	15 59	17 6	17 16	24 16			n.a.
S 22	11 26	19 29	4 59	10 49	3 11	13 0	1 25	11 26	0 56	3 42	1 43	16 59	1 31	14 16	0 22	13 54	1 10	10 7	15 59	17 2	17 15	24 15			n.a.
M23	11 4	15 6	4 48	11 16	2 59	12 33	1 25	11 8	0 56	3 44	1 43	17 0	1 31	14 16	0 22	13 54	1 10	10 6	15 59	16 58	17 14	24 14			n.a.
T 24	10 43	10 7	4 24	11 43	2 47	12 6	1 25	10 51	0 55	3 47	1 43	17 1	1 31	14 16	0 22	13 53	1 10	10 5	15 59	16 54	17 13	24 12			n.a.
W25	10 21	4 42	3 48	12 9	2 33	11 39	1 25	10 34	0 55	3 50	1 43	17 2	1 31	14 16	0 22	13 52	1 10	10 5	15 58	16 51	17 12	24 11			n.a.
T 26	10 0	0s58	3 1	12 34	2 19	11 11	1 25	10 16	0 55	3 53	1 43	17 4	1 30	14 16	0 22	13 51	1 10	10 4	15 58	16 49	17 11	24 9			n.a.
F 27	9 38	6 41	2 4	12 58	2 5	10 43	1 24	9 59	0 54	3 56	1 43	17 5	1 30	14 15	0 22	13 51	1 10	10 4	15 58	16 47	17 10	24 8			n.a.
S 28	9s16	12s15	1n 0	13s20	1n50	10s14	1s24	9s41	0s54	3n58	1n44	17n 6	1s30	14s15	0n22	13s50	1s10	10s 3	15s58	16n47	17n 9	24n 6			n.a.

Julian Day Number = 1677989.5, Delta T = 03h17m00s
Ecliptic obliquity = 23°42'40, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'28, Lahiri = - 5°35'27 Julian Calendar 1 Feb. 119 BCE == Greg. Calendar 29 Jan. 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

MARCH 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 21 33	7♓23'43	17♏29	19°R25	8♓29	8♓15	23°R55	22♉20	8°R48	26♒48	11♈33	15°D52	17♉ 8	5♌ 8	n.a.	S 1
M 2	10 25 30	8°22'50	0♐44	19♒11	9°44	9° 1	23♍48	22°24	8♏47	26°50	11°34	15♉52	17° 5	5°15	n.a.	M 2
T 3	10 29 27	9°21'55	14°19	19° 3	10°58	9°47	23°41	22°28	8°46	26°52	11°35	15°R52	17° 2	5°21	n.a.	T 3
W 4	10 33 23	10°20'58	28°16	19°D 0	12°12	10°33	23°34	22°32	8°46	26°54	11°37	15°51	16°59	5°28	n.a.	W 4
T 5	10 37 20	11°20'00	12♑36	19° 4	13°27	11°18	23°26	22°36	8°45	26°57	11°38	15°48	16°55	5°35	n.a.	T 5
F 6	10 41 16	12°18'59	27°16	19°12	14°41	12° 4	23°19	22°40	8°44	26°59	11°39	15°42	16°52	5°41	n.a.	F 6
S 7	10 45 13	13°17'57	12♒12	19°26	15°55	12°49	23°12	22°44	8°43	27° 1	11°40	15°34	16°49	5°48	n.a.	S 7
S 8	10 49 9	14°16'53	27°15	19°44	17°10	13°35	23° 4	22°49	8°42	27° 3	11°42	15°24	16°46	5°55	n.a.	S 8
M 9	10 53 6	15°15'47	12♓16	20° 8	18°24	14°20	22°57	22°53	8°41	27° 5	11°43	15°15	16°43	6° 2	n.a.	M 9
T 10	10 57 2	16°14'38	27° 6	20°36	19°38	15° 6	22°49	22°58	8°39	27° 8	11°44	15° 7	16°39	6° 8	n.a.	T 10
W11	11 0 59	17°13'28	11♈35	21° 8	20°52	15°51	22°41	23° 2	8°38	27°10	11°45	15° 1	16°36	6°15	n.a.	W11
T 12	11 4 56	18°12'15	25°39	21°44	22° 7	16°37	22°34	23° 7	8°37	27°12	11°46	14°57	16°33	6°22	n.a.	T 12
F 13	11 8 52	19°11'00	9♉16	22°24	23°21	17°22	22°26	23°12	8°36	27°14	11°48	14°D55	16°30	6°28	n.a.	F 13
S 14	11 12 49	20° 9'42	22°25	23° 8	24°35	18° 7	22°18	23°17	8°34	27°16	11°49	14°55	16°27	6°35	n.a.	S 14
S 15	11 16 45	21° 8'23	5♊10	23°56	25°49	18°52	22°11	23°22	8°33	27°18	11°50	14°56	16°24	6°42	n.a.	S 15
M16	11 20 42	22° 7'01	17°34	24°46	27° 3	19°37	22° 3	23°27	8°32	27°20	11°52	14°R57	16°20	6°49	n.a.	M16
T 17	11 24 38	23° 5'37	29°43	25°40	28°18	20°22	21°55	23°32	8°30	27°23	11°53	14°57	16°17	6°55	n.a.	T 17
W18	11 28 35	24° 4'10	11♋41	26°37	29°32	21° 7	21°48	23°37	8°29	27°25	11°54	14°55	16°14	7° 2	n.a.	W18
T 19	11 32 31	25° 2'42	23°34	27°37	0♈46	21°52	21°40	23°42	8°27	27°27	11°56	14°51	16°11	7° 9	n.a.	T 19
F 20	11 36 28	26° 1'11	5♌25	28°40	2° 0	22°37	21°32	23°47	8°25	27°29	11°57	14°45	16° 8	7°16	n.a.	F 20
S 21	11 40 24	26°59'38	17°19	29°45	3°14	23°22	21°25	23°53	8°24	27°31	11°58	14°37	16° 5	7°22	n.a.	S 21
S 22	11 44 21	27°58'02	29°18	0♓53	4°28	24° 7	21°17	23°58	8°22	27°33	12° 0	14°29	16° 1	7°29	n.a.	S 22
M23	11 48 18	28°56'25	11♍25	2° 3	5°42	24°52	21°10	24° 4	8°21	27°35	12° 1	14°20	15°58	7°36	n.a.	M23
T 24	11 52 14	29°54'45	23°40	3°16	6°56	25°37	21° 2	24°10	8°19	27°37	12° 2	14°12	15°55	7°42	n.a.	T 24
W25	11 56 11	0♈53'04	6♎ 6	4°31	8°10	26°21	20°55	24°15	8°17	27°39	12° 4	14° 6	15°52	7°49	n.a.	W25
T 26	12 0 7	1°51'20	18°43	5°48	9°24	27° 6	20°47	24°21	8°15	27°41	12° 5	14° 1	15°49	7°56	n.a.	T 26
F 27	12 4 4	2°49'35	1♏30	7° 7	10°38	27°50	20°40	24°27	8°13	27°43	12° 6	13°58	15°45	8° 3	n.a.	F 27
S 28	12 8 0	3°47'48	14°30	8°29	11°52	28°35	20°32	24°33	8°12	27°45	12° 8	13°D57	15°42	8° 9	n.a.	S 28
S 29	12 11 57	4°46'00	27°42	9°52	13° 6	29°19	20°25	24°39	8°10	27°47	12° 9	13°58	15°39	8°16	n.a.	S 29
M30	12 15 53	5°44'09	11♐ 8	11°18	14°20	0♈ 4	20°18	24°45	8° 8	27°48	12°10	14° 0	15°36	8°23	n.a.	M30
T 31	12 19 50	6♈42'18	24♐49	12♓46	15♈34	0♈48	20♍11	24♉51	8♏ 6	27♒50	12♈12	14♉ 1	15♉33	8♌30	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
S 1	8s54	17s23	0s 9	13s40	1n35	9s46	1s23	9s23	0s53	4n 1	1n44	17n 7	1s30	14s15	0n22	13s49	1s10	10s 2	15s58	16n47	17n 9	24n 5			n.a.
M 2	8 31	21 49	1 18	13 59	1 19	9 17	1 23	9 6	0 53	4 4	1 44	17 8	1 29	14 15	0 22	13 48	1 10	10 2	15 57	16 47	17 8	24 3			n.a.
T 3	8 9	25 11	2 25	14 16	1 4	8 48	1 22	8 48	0 53	4 7	1 44	17 10	1 29	14 14	0 22	13 48	1 10	10 1	15 57	16 47	17 7	24 1			n.a.
W 4	7 46	27 7	3 25	14 31	0 49	8 19	1 21	8 30	0 52	4 10	1 44	17 11	1 29	14 14	0 22	13 47	1 10	10 0	15 57	16 46	17 6	24 0			n.a.
T 5	7 24	27 20	4 14	14 44	0 35	7 49	1 21	8 12	0 52	4 13	1 44	17 12	1 29	14 14	0 22	13 46	1 10	10 0	15 57	16 45	17 5	23 58			n.a.
F 6	7 1	25 39	4 48	14 54	0 21	7 19	1 20	7 54	0 51	4 16	1 44	17 13	1 28	14 14	0 22	13 45	1 10	9 59	15 57	16 43	17 4	23 57			n.a.
S 7	6 38	22 10	5 3	15 3	0 7	6 50	1 19	7 36	0 51	4 19	1 44	17 15	1 28	14 13	0 22	13 45	1 10	9 59	15 56	16 41	17 3	23 55			n.a.
S 8	6 15	17 12	4 57	15 10	0s 7	6 19	1 18	7 18	0 50	4 22	1 44	17 16	1 28	14 13	0 22	13 44	1 10	9 58	15 56	16 38	17 2	23 54			n.a.
M 9	5 52	11 12	4 31	15 15	0 20	5 49	1 17	7 0	0 50	4 25	1 44	17 17	1 28	14 13	0 22	13 43	1 10	9 57	15 56	16 36	17 1	23 52			n.a.
T 10	5 29	4 37	3 46	15 18	0 32	5 19	1 16	6 42	0 50	4 29	1 44	17 19	1 27	14 12	0 22	13 42	1 10	9 57	15 56	16 33	17 0	23 51			n.a.
W11	5 6	2n 3	2 48	15 18	0 44	4 48	1 15	6 24	0 49	4 32	1 44	17 20	1 27	14 12	0 22	13 42	1 10	9 56	15 56	16 31	16 59	23 49			n.a.
T 12	4 43	8 28	1 41	15 17	0 55	4 18	1 14	6 5	0 49	4 35	1 44	17 22	1 27	14 11	0 22	13 41	1 10	9 55	15 56	16 30	16 58	23 47			n.a.
F 13	4 20	14 16	0 30	15 14	1 6	3 47	1 13	5 47	0 48	4 38	1 44	17 23	1 27	14 11	0 22	13 40	1 10	9 55	15 55	16 30	16 58	23 46			n.a.
S 14	3 56	19 14	0n40	15 9	1 16	3 16	1 11	5 29	0 48	4 41	1 44	17 24	1 27	14 11	0 22	13 39	1 10	9 54	15 55	16 30	16 57	23 44			n.a.
S 15	3 33	23 9	1 46	15 2	1 25	2 45	1 10	5 11	0 47	4 44	1 44	17 26	1 26	14 10	0 22	13 39	1 10	9 54	15 55	16 30	16 56	23 43			n.a.
M16	3 10	25 53	2 46	14 53	1 34	2 14	1 9	4 52	0 47	4 47	1 44	17 27	1 26	14 10	0 22	13 38	1 10	9 53	15 55	16 30	16 55	23 41			n.a.
T 17	2 46	27 19	3 37	14 43	1 43	1 43	1 7	4 34	0 46	4 50	1 44	17 29	1 26	14 9	0 22	13 37	1 10	9 52	15 55	16 30	16 54	23 39			n.a.
W18	2 23	27 28	4 17	14 30	1 50	1 12	1 6	4 16	0 46	4 53	1 44	17 30	1 26	14 9	0 22	13 37	1 10	9 52	15 55	16 30	16 53	23 38			n.a.
T 19	1 59	26 19	4 46	14 16	1 57	0 41	1 4	3 57	0 45	4 56	1 44	17 32	1 26	14 8	0 22	13 36	1 10	9 51	15 55	16 28	16 52	23 36			n.a.
F 20	1 36	24 1	5 3	14 0	2 4	0 9	1 3	3 39	0 45	4 59	1 44	17 33	1 25	14 8	0 22	13 35	1 11	9 50	15 55	16 27	16 51	23 34			n.a.
S 21	1 12	20 40	5 6	13 43	2 10	0n22	1 1	3 20	0 44	5 2	1 44	17 35	1 25	14 7	0 22	13 35	1 11	9 50	15 54	16 24	16 50	23 33			n.a.
S 22	0 49	16 28	4 57	13 23	2 15	0 53	1 0	3 2	0 44	5 5	1 44	17 36	1 25	14 7	0 22	13 34	1 11	9 49	15 54	16 22	16 49	23 31			n.a.
M23	0 26	11 34	4 34	13 2	2 20	1 24	0 58	2 44	0 43	5 8	1 44	17 38	1 25	14 6	0 22	13 33	1 11	9 49	15 54	16 19	16 48	23 29			n.a.
T 24	0 2	6 10	3 58	12 40	2 24	1 55	0 56	2 25	0 43	5 11	1 44	17 40	1 25	14 5	0 22	13 33	1 11	9 48	15 54	16 17	16 47	23 28			n.a.
W25	0n21	0 27	3 10	12 15	2 28	2 27	0 54	2 7	0 42	5 14	1 44	17 41	1 24	14 5	0 22	13 32	1 11	9 47	15 54	16 15	16 46	23 26			n.a.
T 26	0 45	5s22	2 12	11 49	2 31	2 58	0 53	1 48	0 42	5 17	1 44	17 43	1 24	14 4	0 22	13 31	1 11	9 47	15 54	16 14	16 46	23 24			n.a.
F 27	1 8	11 5	1 7	11 22	2 34	3 29	0 51	1 30	0 41	5 20	1 44	17 44	1 24	14 4	0 22	13 31	1 11	9 46	15 54	16 13	16 45	23 23			n.a.
S 28	1 32	16 25	0s 3	10 53	2 35	4 0	0 49	1 12	0 41	5 23	1 44	17 46	1 24	14 3	0 22	13 30	1 11	9 46	15 54	16 13	16 44	23 21			n.a.
S 29	1 55	21 4	1 14	10 22	2 37	4 31	0 47	0 53	0 40	5 26	1 44	17 48	1 24	14 2	0 22	13 29	1 11	9 45	15 54	16 13	16 43	23 19			n.a.
M30	2 18	24 43	2 22	9 50	2 38	5 2	0 45	0 35	0 40	5 28	1 44	17 49	1 23	14 2	0 22	13 29	1 11	9 45	15 54	16 13	16 42	23 18			n.a.
T 31	2n41	27s 0	3s24	9s16	2s38	5n32	0s43	0s17	0s39	5n31	1n44	17n51	1s23	14s 1	0n22	13s28	1s11	9s44	15s54	16n14	16n41	23n16			n.a.

Julian Day Number = 1678017.5, Delta T = 03h16m59s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'24, Lahiri = - 5°35'23 Julian Calendar 1 March 119 BCE == Greg. Calendar 26 Feb. 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

APRIL 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 23 47	7♈40'25	8♉45	14♓15	16♈47	1♈32	20°R 4	24♉57	8°R 4	27♒52	12♈13	14°R 1	15♉30	8♌36	n.a.	W 1
T 2	12 27 43	8°38'30	22°55	15°47	18° 1	2°17	19♍57	25° 3	8♏ 2	27°54	12°14	14♉ 1	15°26	8°43	n.a.	T 2
F 3	12 31 40	9°36'34	7♒18	17°20	19°15	3° 1	19°50	25° 9	8° 0	27°56	12°16	13°58	15°23	8°50	n.a.	F 3
S 4	12 35 36	10°34'37	21°52	18°56	20°29	3°45	19°43	25°16	7°58	27°58	12°17	13°55	15°20	8°56	n.a.	S 4
S 5	12 39 33	11°32'38	6♓29	20°33	21°43	4°29	19°36	25°22	7°55	27°59	12°18	13°50	15°17	9° 3	n.a.	S 5
M 6	12 43 29	12°30'37	21° 6	22°12	22°57	5°13	19°30	25°29	7°53	28° 1	12°20	13°45	15°14	9°10	n.a.	M 6
T 7	12 47 26	13°28'35	5♈33	23°53	24°10	5°57	19°23	25°35	7°51	28° 3	12°21	13°41	15°10	9°17	n.a.	T 7
W 8	12 51 22	14°26'31	19°47	25°36	25°24	6°41	19°17	25°42	7°49	28° 5	12°23	13°38	15° 7	9°23	n.a.	W 8
T 9	12 55 19	15°24'25	3♉40	27°21	26°38	7°25	19°10	25°48	7°47	28° 6	12°24	13°37	15° 4	9°30	n.a.	T 9
F 10	12 59 16	16°22'18	17°12	29° 8	27°52	8° 9	19° 4	25°55	7°44	28° 8	12°25	13°D36	15° 1	9°37	n.a.	F 10
S 11	13 3 12	17°20'09	0♊20	0♈57	29° 5	8°53	18°58	26° 2	7°42	28°10	12°27	13°37	14°58	9°43	n.a.	S 11
S 12	13 7 9	18°17'59	13° 7	2°48	0♉19	9°37	18°52	26° 8	7°40	28°11	12°28	13°39	14°55	9°50	n.a.	S 12
M13	13 11 5	19°15'46	25°34	4°40	1°33	10°20	18°46	26°15	7°38	28°13	12°29	13°40	14°51	9°57	n.a.	M13
T 14	13 15 2	20°13'32	7♋46	6°35	2°46	11° 4	18°41	26°22	7°35	28°14	12°31	13°41	14°48	10° 4	n.a.	T 14
W15	13 18 58	21°11'16	19°47	8°31	4° 0	11°47	18°35	26°29	7°33	28°16	12°32	13°R42	14°45	10°10	n.a.	W15
T 16	13 22 55	22° 8'58	1♌41	10°29	5°13	12°31	18°30	26°36	7°31	28°17	12°33	13°42	14°42	10°17	n.a.	T 16
F 17	13 26 51	23° 6'39	13°34	12°29	6°27	13°14	18°24	26°43	7°28	28°19	12°35	13°40	14°39	10°24	n.a.	F 17
S 18	13 30 48	24° 4'18	25°30	14°31	7°41	13°58	18°19	26°50	7°26	28°20	12°36	13°38	14°36	10°31	n.a.	S 18
S 19	13 34 45	25° 1'55	7♍32	16°35	8°54	14°41	18°14	26°57	7°23	28°22	12°38	13°36	14°32	10°37	n.a.	S 19
M20	13 38 41	25°59'31	19°45	18°40	10° 8	15°25	18° 9	27° 4	7°21	28°23	12°39	13°33	14°29	10°44	n.a.	M20
T 21	13 42 38	26°57'05	2♎ 9	20°46	11°21	16° 8	18° 5	27°11	7°19	28°25	12°40	13°30	14°26	10°51	n.a.	T 21
W22	13 46 34	27°54'38	14°48	22°54	12°35	16°51	18° 0	27°18	7°16	28°26	12°41	13°28	14°23	10°57	n.a.	W22
T 23	13 50 31	28°52'09	27°42	25° 3	13°48	17°34	17°56	27°26	7°14	28°27	12°43	13°27	14°20	11° 4	n.a.	T 23
F 24	13 54 27	29°49'39	10♏51	27°13	15° 1	18°17	17°52	27°33	7°11	28°29	12°44	13°D27	14°16	11°11	n.a.	F 24
S 25	13 58 24	0♉47'08	24°14	29°24	16°15	19° 0	17°48	27°40	7° 9	28°30	12°45	13°27	14°13	11°18	n.a.	S 25
S 26	14 2 20	1°44'36	7♐50	1♉35	17°28	19°43	17°44	27°48	7° 6	28°31	12°47	13°28	14°10	11°24	n.a.	S 26
M27	14 6 17	2°42'03	21°38	3°47	18°42	20°26	17°40	27°55	7° 4	28°32	12°48	13°28	14° 7	11°31	n.a.	M27
T 28	14 10 13	3°39'29	5♑35	5°58	19°55	21° 9	17°36	28° 2	7° 1	28°34	12°49	13°29	14° 4	11°38	n.a.	T 28
W29	14 14 10	4°36'55	19°41	8° 9	21° 8	21°52	17°33	28°10	6°59	28°35	12°51	13°30	14° 1	11°44	n.a.	W29
T 30	14 18 7	5♉34'19	3♒53	10♉20	22♉22	22♈35	17♍30	28♉17	6♏56	28♒36	12♈52	13°R30	13♉57	11♌51	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n 5	27s39	4s14	8s41	2s37	6n 3	0s41	0n 2	0s39	5n34	1n44	17n53	1s23	14s 0	0n22	13s27	1s11	9s43	15s54	16n14	16n40	23n14		n.a.
T 2	3 28	26 31	4 51	8 4	2 36	6 33	0 38	0 20	0 38	5 36	1 43	17 54	1 23	14 0	0 22	13 27	1 11	9 43	15 54	16 13	16 39	23 12		n.a.
F 3	3 51	23 38	5 9	7 26	2 35	7 4	0 36	0 38	0 38	5 39	1 43	17 56	1 23	13 59	0 22	13 26	1 11	9 42	15 54	16 13	16 38	23 11		n.a.
S 4	4 14	19 14	5 8	6 46	2 33	7 34	0 34	0 56	0 37	5 42	1 43	17 58	1 22	13 58	0 22	13 26	1 11	9 42	15 54	16 12	16 37	23 9		n.a.
S 5	4 37	13 40	4 47	6 5	2 30	8 4	0 32	1 14	0 37	5 44	1 43	17 59	1 22	13 58	0 22	13 25	1 11	9 41	15 53	16 10	16 36	23 7		n.a.
M 6	5 0	7 22	4 8	5 22	2 27	8 34	0 30	1 33	0 36	5 47	1 43	18 1	1 22	13 57	0 22	13 24	1 11	9 41	15 53	16 9	16 35	23 5		n.a.
T 7	5 23	0 43	3 13	4 39	2 23	9 3	0 27	1 51	0 36	5 49	1 43	18 3	1 22	13 56	0 22	13 24	1 11	9 40	15 53	16 8	16 34	23 4		n.a.
W 8	5 45	5n52	2 7	3 53	2 19	9 33	0 25	2 9	0 35	5 52	1 43	18 5	1 22	13 56	0 22	13 23	1 11	9 40	15 53	16 7	16 33	23 2		n.a.
T 9	6 8	12 2	0 54	3 7	2 14	10 2	0 23	2 27	0 35	5 54	1 42	18 6	1 22	13 55	0 22	13 23	1 11	9 39	15 53	16 6	16 32	23 0		n.a.
F 10	6 30	17 28	0n20	2 19	2 9	10 31	0 21	2 45	0 34	5 56	1 42	18 8	1 21	13 54	0 22	13 22	1 11	9 39	15 53	16 6	16 31	22 58		n.a.
S 11	6 53	21 56	1 30	1 30	2 3	10 59	0 18	3 3	0 34	5 59	1 42	18 10	1 21	13 53	0 22	13 22	1 11	9 38	15 53	16 6	16 31	22 57		n.a.
S 12	7 15	25 11	2 35	0 39	1 57	11 28	0 16	3 21	0 33	6 1	1 42	18 12	1 21	13 53	0 22	13 21	1 11	9 37	15 53	16 7	16 30	22 55		n.a.
M13	7 37	27 8	3 30	0n12	1 50	11 56	0 13	3 39	0 32	6 3	1 42	18 13	1 21	13 52	0 22	13 21	1 11	9 37	15 53	16 7	16 29	22 53		n.a.
T 14	7 59	27 43	4 15	1 5	1 42	12 24	0 11	3 56	0 32	6 5	1 42	18 15	1 21	13 51	0 22	13 20	1 11	9 36	15 53	16 8	16 28	22 51		n.a.
W15	8 21	26 58	4 48	1 58	1 35	12 52	0 9	4 14	0 31	6 7	1 41	18 17	1 21	13 50	0 22	13 20	1 11	9 36	15 53	16 8	16 27	22 49		n.a.
T 16	8 43	25 0	5 8	2 53	1 26	13 19	0 6	4 32	0 31	6 9	1 41	18 19	1 21	13 50	0 22	13 19	1 11	9 35	15 54	16 8	16 26	22 48		n.a.
F 17	9 5	21 57	5 14	3 48	1 18	13 46	0 4	4 49	0 30	6 11	1 41	18 20	1 20	13 49	0 22	13 19	1 12	9 35	15 54	16 7	16 25	22 46		n.a.
S 18	9 26	17 59	5 8	4 44	1 8	14 13	0 1	5 7	0 30	6 13	1 41	18 22	1 20	13 48	0 22	13 18	1 12	9 35	15 54	16 7	16 24	22 44		n.a.
S 19	9 48	13 16	4 48	5 41	0 59	14 39	0n 1	5 24	0 29	6 14	1 40	18 24	1 20	13 47	0 22	13 18	1 12	9 34	15 54	16 6	16 23	22 42		n.a.
M20	10 9	8 0	4 14	6 38	0 49	15 5	0 4	5 42	0 28	6 16	1 40	18 26	1 20	13 47	0 22	13 17	1 12	9 34	15 54	16 5	16 22	22 40		n.a.
T 21	10 30	2 19	3 28	7 36	0 39	15 30	0 6	5 59	0 28	6 18	1 40	18 28	1 20	13 46	0 22	13 17	1 12	9 33	15 54	16 4	16 21	22 38		n.a.
W22	10 51	3s34	2 32	8 33	0 29	15 56	0 9	6 16	0 27	6 19	1 40	18 29	1 20	13 45	0 22	13 16	1 12	9 33	15 54	16 4	16 20	22 37		n.a.
T 23	11 12	9 26	1 26	9 31	0 18	16 20	0 11	6 34	0 27	6 21	1 40	18 31	1 19	13 44	0 22	13 16	1 12	9 32	15 54	16 3	16 19	22 35		n.a.
F 24	11 32	15 1	0 14	10 29	0 8	16 45	0 14	6 51	0 26	6 22	1 39	18 33	1 19	13 43	0 22	13 15	1 12	9 32	15 54	16 3	16 18	22 33		n.a.
S 25	11 53	20 0	0s59	11 26	0n 3	17 9	0 16	7 8	0 26	6 24	1 39	18 35	1 19	13 43	0 22	13 15	1 12	9 31	15 54	16 3	16 17	22 31		n.a.
S 26	12 13	24 1	2 11	12 22	0 13	17 32	0 19	7 25	0 25	6 25	1 39	18 37	1 19	13 42	0 22	13 15	1 12	9 31	15 54	16 3	16 16	22 29		n.a.
M27	12 33	26 42	3 16	13 17	0 24	17 55	0 21	7 42	0 24	6 26	1 39	18 38	1 19	13 41	0 22	13 14	1 12	9 31	15 54	16 4	16 15	22 27		n.a.
T 28	12 53	27 45	4 10	14 12	0 34	18 18	0 24	7 59	0 24	6 28	1 38	18 40	1 19	13 40	0 22	13 14	1 12	9 30	15 54	16 4	16 14	22 25		n.a.
W29	13 12	27 1	4 50	15 5	0 44	18 40	0 26	8 15	0 23	6 29	1 38	18 42	1 19	13 39	0 22	13 13	1 12	9 30	15 54	16 4	16 13	22 23		n.a.
T 30	13n32	24s33	5s12	15n56	0n54	19n 2	0n29	8n32	0s23	6n30	1n38	18n44	1s19	13s38	0n22	13s13	1s12	9s29	15s54	16n 4	16n12	22n21		n.a.

Julian Day Number = 1678048.5, Delta T = 03h16m58s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'20, Lahiri = - 5°35'19 Julian Calendar 1 Apr. 119 BCE == Greg. Calendar 29 March 119 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

MAY 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 22 3	6♉31'43	18♒ 8	12♉30	23♉35	23♈17	17°R27	28♉25	6°R54	28♒37	12♈53	13°R30	13♉54	11♌58	n.a.	F 1
S 2	14 26 0	7°29'06	2♓24	14°39	24°48	24° 0	17♍24	28°32	6♏51	28°38	12°54	13♉30	13°51	12° 5	n.a.	S 2
S 3	14 29 56	8°26'28	16°38	16°47	26° 2	24°43	17°21	28°40	6°49	28°39	12°56	13°29	13°48	12°11	n.a.	S 3
M 4	14 33 53	9°23'49	0♈47	18°53	27°15	25°25	17°18	28°47	6°46	28°40	12°57	13°29	13°45	12°18	n.a.	M 4
T 5	14 37 49	10°21'10	14°46	20°57	28°28	26° 8	17°16	28°55	6°44	28°41	12°58	13°28	13°42	12°25	n.a.	T 5
W 6	14 41 46	11°18'30	28°34	22°59	29°41	26°50	17°14	29° 3	6°42	28°42	12°59	13°28	13°38	12°32	n.a.	W 6
T 7	14 45 43	12°15'49	12♉ 7	25° 0	0♊55	27°33	17°12	29°10	6°39	28°43	13° 1	13°D28	13°35	12°38	n.a.	T 7
F 8	14 49 39	13°13'07	25°23	26°58	2° 8	28°15	17°10	29°18	6°37	28°44	13° 2	13°R28	13°32	12°45	n.a.	F 8
S 9	14 53 36	14°10'25	8♊22	28°54	3°21	28°57	17° 8	29°26	6°34	28°45	13° 3	13°28	13°29	12°52	n.a.	S 9
S 10	14 57 32	15° 7'41	21° 3	0♊48	4°34	29°40	17° 7	29°33	6°32	28°46	13° 4	13°28	13°26	12°58	n.a.	S 10
M11	15 1 29	16° 4'57	3♋28	2°39	5°47	0♉22	17° 6	29°41	6°29	28°47	13° 5	13°28	13°22	13° 5	n.a.	M11
T 12	15 5 25	17° 2'12	15°40	4°28	7° 1	1° 4	17° 4	29°49	6°27	28°48	13° 7	13°27	13°19	13°12	n.a.	T 12
W13	15 9 22	17°59'26	27°42	6°14	8°14	1°46	17° 4	29°57	6°24	28°48	13° 8	13°27	13°16	13°19	n.a.	W13
T 14	15 13 18	18°56'39	9♌37	7°58	9°27	2°28	17° 3	0♊ 4	6°22	28°49	13° 9	13°26	13°13	13°25	n.a.	T 14
F 15	15 17 15	19°53'51	21°31	9°40	10°40	3°10	17° 2	0°12	6°20	28°50	13°10	13°D26	13°10	13°32	n.a.	F 15
S 16	15 21 12	20°51'02	3♍27	11°19	11°53	3°52	17° 2	0°20	6°17	28°50	13°11	13°27	13° 7	13°39	n.a.	S 16
S 17	15 25 8	21°48'12	15°30	12°55	13° 6	4°34	17° 2	0°28	6°15	28°51	13°12	13°27	13° 3	13°46	n.a.	S 17
M18	15 29 5	22°45'22	27°45	14°29	14°19	5°15	17°D 2	0°36	6°12	28°52	13°13	13°28	13° 0	13°52	n.a.	M18
T 19	15 33 1	23°42'31	10♎14	16° 0	15°32	5°57	17° 2	0°43	6°10	28°52	13°15	13°29	12°57	13°59	n.a.	T 19
W20	15 36 58	24°39'39	23° 2	17°29	16°45	6°39	17° 2	0°51	6° 8	28°53	13°16	13°30	12°54	14° 6	n.a.	W20
T 21	15 40 54	25°36'46	6♏10	18°54	17°58	7°21	17° 3	0°59	6° 5	28°53	13°17	13°30	12°51	14°12	n.a.	T 21
F 22	15 44 51	26°33'54	19°37	20°18	19°11	8° 2	17° 3	1° 7	6° 3	28°54	13°18	13°R30	12°47	14°19	n.a.	F 22
S 23	15 48 47	27°31'00	3♐24	21°38	20°23	8°44	17° 4	1°15	6° 1	28°54	13°19	13°30	12°44	14°26	n.a.	S 23
S 24	15 52 44	28°28'07	17°27	22°56	21°36	9°25	17° 5	1°23	5°59	28°54	13°20	13°28	12°41	14°33	n.a.	S 24
M25	15 56 41	29°25'14	1♑43	24°11	22°49	10° 7	17° 6	1°30	5°56	28°55	13°21	13°27	12°38	14°39	n.a.	M25
T 26	16 0 37	0♊22'20	16° 6	25°24	24° 2	10°48	17° 8	1°38	5°54	28°55	13°22	13°24	12°35	14°46	n.a.	T 26
W27	16 4 34	1°19'26	0♒31	26°33	25°15	11°29	17° 9	1°46	5°52	28°56	13°23	13°23	12°32	14°53	n.a.	W27
T 28	16 8 30	2°16'33	14°55	27°39	26°28	12°11	17°11	1°54	5°50	28°56	13°24	13°21	12°28	15° 0	n.a.	T 28
F 29	16 12 27	3°13'39	29°12	28°43	27°40	12°52	17°13	2° 2	5°48	28°56	13°25	13°D20	12°25	15° 6	n.a.	F 29
S 30	16 16 23	4°10'46	13♓21	29°43	28°53	13°33	17°15	2°10	5°46	28°56	13°26	13°20	12°22	15°13	n.a.	S 30
S 31	16 20 20	5♊ 7'53	27♓19	0♋40	0♋ 6	14♉14	17♍17	2♊18	5♏44	28♒56	13♈27	13♉21	12♉19	15♌20	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n51	20s33	5s15	16n46	1n 3	19n23	0n31	8n49	0s22	6n31	1n38	18n46	1s18	13s38	0n22	13s13	1s12	9s29	15s55	16n 4	16n12	22n20		n.a.
S 2	14 10	15 23	4 59	17 34	1 12	19 44	0 34	9 5	0 21	6 32	1 37	18 47	1 18	13 37	0 22	13 12	1 12	9 29	15 55	16 4	16 11	22 18		n.a.
S 3	14 29	9 24	4 25	18 19	1 20	20 4	0 36	9 21	0 21	6 32	1 37	18 49	1 18	13 36	0 22	13 12	1 12	9 28	15 55	16 4	16 10	22 16		n.a.
M 4	14 47	2 58	3 35	19 3	1 28	20 23	0 38	9 38	0 20	6 33	1 37	18 51	1 18	13 35	0 22	13 12	1 12	9 28	15 55	16 4	16 9	22 14		n.a.
T 5	15 6	3n33	2 32	19 44	1 35	20 42	0 41	9 54	0 20	6 34	1 37	18 53	1 18	13 34	0 22	13 11	1 12	9 27	15 55	16 4	16 8	22 12		n.a.
W 6	15 24	9 49	1 22	20 22	1 42	21 1	0 43	10 10	0 19	6 34	1 36	18 54	1 18	13 34	0 22	13 11	1 12	9 27	15 55	16 4	16 7	22 10		n.a.
T 7	15 41	15 32	0 7	20 58	1 48	21 19	0 45	10 26	0 18	6 35	1 36	18 56	1 18	13 33	0 22	13 11	1 12	9 27	15 55	16 4	16 6	22 8		n.a.
F 8	15 59	20 23	1n 6	21 32	1 53	21 36	0 48	10 42	0 18	6 35	1 36	18 58	1 18	13 32	0 22	13 11	1 12	9 26	15 55	16 4	16 5	22 6		n.a.
S 9	16 16	24 9	2 14	22 3	1 58	21 53	0 50	10 58	0 17	6 36	1 36	19 0	1 17	13 31	0 22	13 10	1 13	9 26	15 56	16 4	16 4	22 4		n.a.
S 10	16 33	26 37	3 13	22 32	2 1	22 9	0 52	11 13	0 17	6 36	1 35	19 2	1 17	13 30	0 22	13 10	1 13	9 26	15 56	16 4	16 3	22 2		n.a.
M11	16 50	27 43	4 3	22 58	2 5	22 25	0 55	11 29	0 16	6 36	1 35	19 3	1 17	13 30	0 22	13 10	1 13	9 25	15 56	16 3	16 2	22 0		n.a.
T 12	17 7	27 25	4 40	23 21	2 7	22 40	0 57	11 44	0 15	6 37	1 35	19 5	1 17	13 29	0 22	13 10	1 13	9 25	15 56	16 3	16 1	21 58		n.a.
W13	17 23	25 50	5 5	23 42	2 9	22 54	0 59	12 0	0 15	6 37	1 34	19 7	1 17	13 28	0 22	13 9	1 13	9 25	15 56	16 3	16 0	21 56		n.a.
T 14	17 39	23 6	5 16	24 1	2 10	23 7	1 1	12 15	0 14	6 37	1 34	19 9	1 17	13 27	0 22	13 9	1 13	9 25	15 56	16 3	15 59	21 54		n.a.
F 15	17 55	19 26	5 13	24 17	2 10	23 20	1 3	12 30	0 13	6 37	1 34	19 10	1 17	13 26	0 22	13 9	1 13	9 24	15 57	16 3	15 58	21 52		n.a.
S 16	18 10	14 58	4 58	24 31	2 9	23 33	1 5	12 45	0 13	6 37	1 34	19 12	1 17	13 26	0 22	13 9	1 13	9 24	15 57	16 3	15 57	21 50		n.a.
S 17	18 25	9 54	4 28	24 43	2 8	23 44	1 7	13 0	0 12	6 36	1 33	19 14	1 17	13 25	0 22	13 9	1 13	9 24	15 57	16 3	15 56	21 48		n.a.
M18	18 40	4 22	3 47	24 53	2 6	23 55	1 9	13 14	0 12	6 36	1 33	19 16	1 17	13 24	0 22	13 8	1 13	9 23	15 57	16 4	15 55	21 46		n.a.
T 19	18 55	1s26	2 54	25 1	2 3	24 6	1 11	13 29	0 11	6 36	1 33	19 17	1 16	13 23	0 22	13 8	1 13	9 23	15 57	16 4	15 54	21 44		n.a.
W20	19 9	7 20	1 51	25 6	2 0	24 15	1 13	13 44	0 10	6 36	1 32	19 19	1 16	13 23	0 22	13 8	1 13	9 23	15 57	16 4	15 53	21 42		n.a.
T 21	19 23	13 5	0 40	25 10	1 56	24 24	1 15	13 58	0 10	6 35	1 32	19 21	1 16	13 22	0 22	13 8	1 13	9 23	15 58	16 4	15 52	21 40		n.a.
F 22	19 36	18 23	0s34	25 12	1 51	24 32	1 17	14 12	0 9	6 35	1 32	19 22	1 16	13 21	0 22	13 8	1 13	9 23	15 58	16 4	15 51	21 38		n.a.
S 23	19 50	22 50	1 48	25 12	1 46	24 40	1 19	14 26	0 8	6 34	1 32	19 24	1 16	13 20	0 22	13 8	1 13	9 22	15 58	16 4	15 50	21 36		n.a.
S 24	20 3	26 2	2 57	25 11	1 40	24 47	1 20	14 40	0 8	6 33	1 31	19 26	1 16	13 20	0 22	13 8	1 13	9 22	15 58	16 4	15 49	21 34		n.a.
M25	20 15	27 37	3 55	25 8	1 33	24 53	1 22	14 54	0 7	6 33	1 31	19 27	1 16	13 19	0 22	13 8	1 13	9 22	15 59	16 3	15 48	21 32		n.a.
T 26	20 28	27 22	4 40	25 3	1 26	24 58	1 23	15 8	0 7	6 32	1 31	19 29	1 16	13 18	0 22	13 8	1 13	9 22	15 59	16 2	15 47	21 30		n.a.
W27	20 40	25 15	5 7	24 58	1 18	25 2	1 25	15 21	0 6	6 31	1 30	19 31	1 16	13 17	0 22	13 7	1 13	9 22	15 59	16 2	15 46	21 28		n.a.
T 28	20 51	21 33	5 15	24 51	1 9	25 6	1 27	15 35	0 5	6 30	1 30	19 32	1 16	13 17	0 22	13 7	1 13	9 21	15 59	16 1	15 45	21 25		n.a.
F 29	21 2	16 36	5 3	24 42	1 0	25 9	1 28	15 48	0 5	6 29	1 30	19 34	1 16	13 16	0 21	13 7	1 14	9 21	15 59	16 1	15 44	21 23		n.a.
S 30	21 13	10 48	4 33	24 33	0 50	25 12	1 29	16 1	0 4	6 28	1 30	19 36	1 16	13 15	0 21	13 7	1 14	9 21	16 0	16 1	15 43	21 21		n.a.
S 31	21n24	4s33	3s47	24n23	0n40	25n13	1n31	16n14	0s 3	6n27	1n29	19n37	1s15	13s15	0n21	13s 7	1s14	9s21	16s 0	16n 2	15n42	21n19		n.a.

Julian Day Number = 1678078.5, Delta T = 03h16m57s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'16, Lahiri = - 5°35'15 Julian Calendar 1 May 119 BCE == Greg. Calendar 28 Apr. 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

JUNE 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 24 16	6♊ 5'00	11♈ 5	1♋34	1♋19	14♉55	17♍20	2♊26	5°R42	28♒57	13♈27	13♉23	12♉16	15♌26	n.a.	M 1
T 2	16 28 13	7° 2'07	24°40	2°24	2°31	15°36	17°22	2°33	5♏40	28°57	13°28	13°24	12°13	15°33	n.a.	T 2
W 3	16 32 10	7°59'14	8♉ 1	3°11	3°44	16°17	17°25	2°41	5°38	28°57	13°29	13°R25	12° 9	15°40	n.a.	W 3
T 4	16 36 6	8°56'22	21°10	3°54	4°56	16°58	17°28	2°49	5°36	28°57	13°30	13°25	12° 6	15°47	n.a.	T 4
F 5	16 40 3	9°53'30	4♊ 6	4°33	6° 9	17°39	17°31	2°57	5°34	28°R57	13°31	13°23	12° 3	15°53	n.a.	F 5
S 6	16 43 59	10°50'38	16°49	5° 8	7°22	18°20	17°35	3° 5	5°32	28°57	13°32	13°21	12° 0	16° 0	n.a.	S 6
S 7	16 47 56	11°47'47	29°19	5°40	8°34	19° 1	17°38	3°13	5°30	28°57	13°33	13°17	11°57	16° 7	n.a.	S 7
M 8	16 51 52	12°44'55	11♋38	6° 7	9°47	19°42	17°42	3°20	5°28	28°57	13°33	13°12	11°53	16°13	n.a.	M 8
T 9	16 55 49	13°42'03	23°45	6°30	10°59	20°22	17°46	3°28	5°27	28°57	13°34	13° 7	11°50	16°20	n.a.	T 9
W10	16 59 46	14°39'12	5♌45	6°48	12°12	21° 3	17°49	3°36	5°25	28°56	13°35	13° 2	11°47	16°27	n.a.	W10
T 11	17 3 42	15°36'21	17°39	7° 2	13°24	21°43	17°54	3°44	5°23	28°56	13°36	12°58	11°44	16°34	n.a.	T 11
F 12	17 7 39	16°33'29	29°31	7°11	14°37	22°24	17°58	3°52	5°21	28°56	13°36	12°55	11°41	16°40	n.a.	F 12
S 13	17 11 35	17°30'38	11♍26	7°R15	15°49	23° 4	18° 2	3°59	5°20	28°56	13°37	12°54	11°38	16°47	n.a.	S 13
S 14	17 15 32	18°27'47	23°27	7°15	17° 2	23°45	18° 7	4° 7	5°18	28°56	13°38	12°D54	11°34	16°54	n.a.	S 14
M15	17 19 28	19°24'56	5♎41	7°10	18°14	24°25	18°12	4°15	5°17	28°55	13°38	12°55	11°31	17° 1	n.a.	M15
T 16	17 23 25	20°22'05	18°10	7° 0	19°26	25° 5	18°17	4°22	5°15	28°55	13°39	12°56	11°28	17° 7	n.a.	T 16
W17	17 27 21	21°19'14	1♏ 0	6°45	20°38	25°46	18°22	4°30	5°14	28°54	13°40	12°58	11°25	17°14	n.a.	W17
T 18	17 31 18	22°16'24	14°14	6°26	21°51	26°26	18°27	4°38	5°12	28°54	13°40	12°R58	11°22	17°21	n.a.	T 18
F 19	17 35 15	23°13'34	27°54	6° 2	23° 3	27° 6	18°32	4°45	5°11	28°54	13°41	12°57	11°19	17°27	n.a.	F 19
S 20	17 39 11	24°10'45	11♐58	5°35	24°15	27°46	18°38	4°53	5° 9	28°53	13°41	12°54	11°15	17°34	n.a.	S 20
S 21	17 43 8	25° 7'56	26°23	5° 3	25°27	28°26	18°43	5° 0	5° 8	28°53	13°42	12°50	11°12	17°41	n.a.	S 21
M22	17 47 4	26° 5'08	11♑ 5	4°28	26°39	29° 6	18°49	5° 8	5° 7	28°52	13°43	12°44	11° 9	17°48	n.a.	M22
T 23	17 51 1	27° 2'20	25°55	3°50	27°51	29°46	18°55	5°16	5° 6	28°52	13°43	12°38	11° 6	17°54	n.a.	T 23
W24	17 54 57	27°59'34	10♒45	3°10	29° 3	0♊26	19° 1	5°23	5° 5	28°51	13°44	12°31	11° 3	18° 1	n.a.	W24
T 25	17 58 54	28°56'48	25°27	2°29	0♌15	1° 6	19° 7	5°30	5° 3	28°50	13°44	12°26	11° 0	18° 8	n.a.	T 25
F 26	18 2 51	29°54'04	9♓56	1°46	1°27	1°46	19°14	5°38	5° 2	28°50	13°44	12°23	10°56	18°15	n.a.	F 26
S 27	18 6 47	0♋51'20	24° 8	1° 3	2°39	2°26	19°20	5°45	5° 1	28°49	13°45	12°21	10°53	18°21	n.a.	S 27
S 28	18 10 44	1°48'38	8♈ 1	0°20	3°51	3° 5	19°27	5°53	5° 0	28°48	13°45	12°D21	10°50	18°28	n.a.	S 28
M29	18 14 40	2°45'56	21°35	29♊39	5° 3	3°45	19°34	6° 0	4°59	28°48	13°46	12°22	10°47	18°35	n.a.	M29
T 30	18 18 37	3♋43'16	4♉52	29♊ 0	6♌15	4♊25	19♍41	6♊ 7	4♏58	28♒47	13♈46	12♉23	10♉44	18♌41	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	21n34	1n51	2s48	24n11	0n29	25n14	1n32	16n27	0s 3	6n25	1n29	19n39	1s15	13s14	0n21	13s 7	1s14	9s21	16s 0	16n 2	15n41	21n17		n.a.	M 1
T 2	21 44	8 5	1 41	23 59	0 18	25 14	1 33	16 40	0 2	6 24	1 29	19 41	1 15	13 13	0 21	13 7	1 14	9 21	16 0	16 2	15 40	21 15		n.a.	T 2
W 3	21 53	13 53	0 30	23 46	0 6	25 14	1 34	16 52	0 1	6 23	1 28	19 42	1 15	13 13	0 21	13 7	1 14	9 21	16 1	16 3	15 39	21 13		n.a.	W 3
T 4	22 2	18 56	0n42	23 33	0s 7	25 12	1 35	17 5	0 1	6 21	1 28	19 44	1 15	13 12	0 21	13 7	1 14	9 21	16 1	16 3	15 38	21 11		n.a.	T 4
F 5	22 11	23 1	1 51	23 18	0 20	25 10	1 36	17 17	0 0	6 20	1 28	19 45	1 15	13 11	0 21	13 7	1 14	9 20	16 1	16 2	15 37	21 9		n.a.	F 5
S 6	22 20	25 55	2 53	23 4	0 33	25 7	1 37	17 29	0n 0	6 18	1 28	19 47	1 15	13 11	0 21	13 7	1 14	9 20	16 1	16 1	15 37	21 6		n.a.	S 6
S 7	22 27	27 28	3 45	22 49	0 47	25 4	1 38	17 41	0 1	6 17	1 27	19 49	1 15	13 10	0 21	13 8	1 14	9 20	16 2	16 0	15 36	21 4		n.a.	S 7
M 8	22 35	27 37	4 26	22 33	1 1	24 59	1 39	17 53	0 2	6 15	1 27	19 50	1 15	13 10	0 21	13 8	1 14	9 20	16 2	15 59	15 35	21 2		n.a.	M 8
T 9	22 42	26 25	4 54	22 18	1 15	24 54	1 40	18 5	0 2	6 13	1 27	19 52	1 15	13 9	0 21	13 8	1 14	9 20	16 2	15 57	15 34	21 0		n.a.	T 9
W10	22 49	24 2	5 9	22 2	1 30	24 49	1 40	18 16	0 3	6 11	1 27	19 53	1 15	13 8	0 21	13 8	1 14	9 20	16 2	15 56	15 33	20 58		n.a.	W10
T 11	22 55	20 38	5 10	21 47	1 45	24 42	1 41	18 28	0 4	6 10	1 26	19 55	1 15	13 8	0 21	13 8	1 14	9 20	16 3	15 54	15 32	20 56		n.a.	T 11
F 12	23 1	16 25	4 59	21 31	2 0	24 35	1 41	18 39	0 4	6 8	1 26	19 56	1 15	13 7	0 21	13 8	1 14	9 20	16 3	15 54	15 31	20 54		n.a.	F 12
S 13	23 7	11 34	4 34	21 16	2 15	24 27	1 42	18 50	0 5	6 6	1 26	19 58	1 15	13 7	0 21	13 8	1 14	9 20	16 3	15 53	15 30	20 51		n.a.	S 13
S 14	23 12	6 15	3 57	21 1	2 30	24 18	1 42	19 1	0 6	6 4	1 25	19 59	1 15	13 6	0 21	13 8	1 14	9 20	16 3	15 53	15 29	20 49		n.a.	S 14
M15	23 17	0 36	3 9	20 47	2 44	24 9	1 43	19 11	0 6	6 1	1 25	20 1	1 15	13 6	0 21	13 8	1 14	9 20	16 4	15 53	15 28	20 47		n.a.	M15
T 16	23 21	5s12	2 11	20 33	2 59	23 59	1 43	19 22	0 7	5 59	1 25	20 2	1 15	13 5	0 21	13 9	1 14	9 20	16 4	15 54	15 27	20 45		n.a.	T 16
W17	23 25	10 57	1 5	20 19	3 13	23 48	1 43	19 32	0 8	5 57	1 25	20 4	1 15	13 5	0 21	13 9	1 14	9 20	16 4	15 54	15 26	20 43		n.a.	W17
T 18	23 29	16 24	0s 7	20 7	3 27	23 37	1 43	19 43	0 8	5 55	1 24	20 5	1 14	13 4	0 21	13 9	1 15	9 20	16 5	15 54	15 25	20 40		n.a.	T 18
F 19	23 32	21 13	1 20	19 55	3 40	23 24	1 43	19 53	0 9	5 52	1 24	20 7	1 14	13 4	0 21	13 9	1 15	9 20	16 5	15 54	15 24	20 38		n.a.	F 19
S 20	23 35	24 58	2 30	19 44	3 52	23 12	1 43	20 2	0 10	5 50	1 24	20 8	1 14	13 4	0 21	13 9	1 15	9 20	16 5	15 53	15 23	20 36		n.a.	S 20
S 21	23 37	27 13	3 33	19 34	4 3	22 58	1 43	20 12	0 10	5 47	1 24	20 9	1 14	13 3	0 21	13 10	1 15	9 20	16 5	15 52	15 22	20 34		n.a.	S 21
M22	23 39	27 36	4 23	19 25	4 13	22 44	1 42	20 22	0 11	5 45	1 23	20 11	1 14	13 3	0 21	13 10	1 15	9 20	16 6	15 50	15 21	20 32		n.a.	M22
T 23	23 41	26 2	4 55	19 17	4 22	22 30	1 42	20 31	0 11	5 42	1 23	20 12	1 14	13 2	0 21	13 10	1 15	9 20	16 6	15 48	15 20	20 29		n.a.	T 23
W24	23 42	22 40	5 8	19 11	4 30	22 14	1 42	20 40	0 12	5 40	1 23	20 14	1 14	13 2	0 21	13 10	1 15	9 21	16 6	15 46	15 19	20 27		n.a.	W24
T 25	23 42	17 53	5 0	19 6	4 36	21 58	1 41	20 49	0 13	5 37	1 23	20 15	1 14	13 2	0 21	13 11	1 15	9 21	16 7	15 45	15 18	20 25		n.a.	T 25
F 26	23 43	12 8	4 33	19 2	4 40	21 42	1 41	20 58	0 13	5 34	1 22	20 16	1 14	13 1	0 21	13 11	1 15	9 21	16 7	15 44	15 17	20 23		n.a.	F 26
S 27	23 42	5 52	3 50	19 0	4 43	21 25	1 40	21 7	0 14	5 31	1 22	20 18	1 14	13 1	0 21	13 11	1 15	9 21	16 7	15 43	15 16	20 20		n.a.	S 27
S 28	23 42	0n33	2 54	18 59	4 44	21 7	1 39	21 15	0 15	5 28	1 22	20 19	1 14	13 1	0 21	13 11	1 15	9 21	16 8	15 43	15 15	20 18		n.a.	S 28
M29	23 41	6 49	1 49	18 59	4 43	20 48	1 38	21 24	0 15	5 26	1 22	20 20	1 14	13 0	0 21	13 12	1 15	9 21	16 8	15 43	15 14	20 16		n.a.	M29
T 30	23n39	12n40	0s40	19n 2	4s41	20n30	1n37	21n32	0n16	5n23	1n21	20n21	1s14	13s 0	0n21	13s12	1s15	9s21	16s 8	15n44	15n13	20n14		n.a.	T 30

Julian Day Number = 1678109.5, Delta T = 03h16m56s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'11, Lahiri = - 5°35'11 Julian Calendar 1 June 119 BCE == Greg. Calendar 29 May 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

JULY 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 22 33	4♋40'37	17♉54	28°R24	7♌27	5♊ 4	19♍48	6♊15	4°R58	28°R46	13♈46	12°R23	10♉40	18♌48	n.a.	W 1
T 2	18 26 30	5°38'00	0♊42	27♊51	8°39	5°44	19°55	6°22	4♏57	28♒45	13°47	12♉21	10°37	18°55	n.a.	T 2
F 3	18 30 26	6°35'23	13°19	27°23	9°50	6°23	20° 2	6°29	4°56	28°44	13°47	12°17	10°34	19° 2	n.a.	F 3
S 4	18 34 23	7°32'48	25°46	26°59	11° 2	7° 3	20°10	6°36	4°55	28°44	13°47	12°11	10°31	19° 8	n.a.	S 4
S 5	18 38 20	8°30'14	8♋ 3	26°40	12°14	7°42	20°17	6°43	4°55	28°43	13°48	12° 2	10°28	19°15	n.a.	S 5
M 6	18 42 16	9°27'41	20°11	26°27	13°25	8°21	20°25	6°50	4°54	28°42	13°48	11°52	10°25	19°22	n.a.	M 6
T 7	18 46 13	10°25'09	2♌13	26°20	14°37	9° 1	20°33	6°57	4°53	28°41	13°48	11°41	10°21	19°29	n.a.	T 7
W 8	18 50 9	11°22'38	14° 9	26°D20	15°48	9°40	20°41	7° 4	4°53	28°40	13°48	11°30	10°18	19°35	n.a.	W 8
T 9	18 54 6	12°20'08	26° 0	26°26	17° 0	10°19	20°49	7°11	4°52	28°39	13°49	11°21	10°15	19°42	n.a.	T 9
F 10	18 58 2	13°17'39	7♍51	26°39	18°11	10°58	20°57	7°18	4°52	28°38	13°49	11°13	10°12	19°49	n.a.	F 10
S 11	19 1 59	14°15'11	19°44	26°58	19°23	11°37	21° 5	7°25	4°52	28°37	13°49	11° 8	10° 9	19°55	n.a.	S 11
S 12	19 5 55	15°12'44	1♎43	27°25	20°34	12°16	21°13	7°32	4°51	28°36	13°49	11° 5	10° 5	20° 2	n.a.	S 12
M13	19 9 52	16°10'18	13°53	27°58	21°45	12°55	21°22	7°39	4°51	28°35	13°49	11°D 4	10° 2	20° 9	n.a.	M13
T 14	19 13 49	17° 7'53	26°19	28°38	22°57	13°34	21°31	7°45	4°51	28°33	13°49	11° 4	9°59	20°16	n.a.	T 14
W15	19 17 45	18° 5'29	9♏ 6	29°25	24° 8	14°13	21°39	7°52	4°51	28°32	13°49	11°R 5	9°56	20°22	n.a.	W15
T 16	19 21 42	19° 3'06	22°19	0♋18	25°19	14°52	21°48	7°59	4°51	28°31	13°49	11° 4	9°53	20°29	n.a.	T 16
F 17	19 25 38	20° 0'44	5♐59	1°18	26°30	15°31	21°57	8° 5	4°51	28°30	13°49	11° 2	9°50	20°36	n.a.	F 17
S 18	19 29 35	20°58'24	20° 9	2°24	27°41	16° 9	22° 6	8°12	4°D51	28°29	13°R49	10°57	9°46	20°42	n.a.	S 18
S 19	19 33 31	21°56'05	4♑45	3°36	28°52	16°48	22°16	8°18	4°51	28°27	13°49	10°50	9°43	20°49	n.a.	S 19
M20	19 37 28	22°53'48	19°43	4°54	0♍ 3	17°27	22°25	8°25	4°51	28°26	13°49	10°41	9°40	20°56	n.a.	M20
T 21	19 41 24	23°51'31	4♒53	6°18	1°14	18° 5	22°34	8°31	4°51	28°25	13°49	10°31	9°37	21° 3	n.a.	T 21
W22	19 45 21	24°49'17	20° 5	7°46	2°25	18°44	22°44	8°37	4°51	28°24	13°49	10°21	9°34	21° 9	n.a.	W22
T 23	19 49 18	25°47'04	5♓ 8	9°19	3°35	19°22	22°53	8°43	4°51	28°22	13°49	10°12	9°31	21°16	n.a.	T 23
F 24	19 53 14	26°44'52	19°54	10°57	4°46	20° 1	23° 3	8°50	4°52	28°21	13°49	10° 6	9°27	21°23	n.a.	F 24
S 25	19 57 11	27°42'43	4♈16	12°38	5°57	20°39	23°13	8°56	4°52	28°20	13°49	10° 2	9°24	21°30	n.a.	S 25
S 26	20 1 7	28°40'35	18°14	14°23	7° 7	21°17	23°23	9° 2	4°52	28°18	13°49	10° 0	9°21	21°36	n.a.	S 26
M27	20 5 4	29°38'30	1♉47	16°11	8°18	21°56	23°33	9° 8	4°53	28°17	13°48	10°D 0	9°18	21°43	n.a.	M27
T 28	20 9 0	0♌36'26	14°57	18° 1	9°28	22°34	23°43	9°14	4°53	28°15	13°48	10°R 0	9°15	21°50	n.a.	T 28
W29	20 12 57	1°34'24	27°48	19°54	10°39	23°12	23°53	9°20	4°54	28°14	13°48	9°59	9°11	21°56	n.a.	W29
T 30	20 16 53	2°32'25	10♊23	21°48	11°49	23°50	24° 3	9°25	4°55	28°13	13°48	9°56	9° 8	22° 3	n.a.	T 30
F 31	20 20 50	3♌30'27	22♊46	23♋44	12♍59	24♊28	24♍13	9♊31	4♏55	28♒11	13♈48	9♉50	9♉ 5	22♌10	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	23n38	17n50	0n30	19n 5	4s37	20n10	1n36	21n40	0n17	5n20	1n21	20n23	1s14	13s 0	0n21	13s12	1s15	9s21	16s 8	15n44	15n12	20n11			n.a.
T 2	23 35	22 6	1 37	19 11	4 31	19 50	1 35	21 47	0 17	5 17	1 21	20 24	1 14	13 0	0 21	13 13	1 15	9 22	16 9	15 43	15 11	20 9			n.a.
F 3	23 33	25 16	2 38	19 18	4 24	19 30	1 34	21 55	0 18	5 13	1 21	20 25	1 14	12 59	0 21	13 13	1 15	9 22	16 9	15 42	15 10	20 7			n.a.
S 4	23 30	27 9	3 30	19 26	4 15	19 9	1 33	22 2	0 19	5 10	1 20	20 27	1 14	12 59	0 21	13 13	1 15	9 22	16 9	15 40	15 9	20 4			n.a.
S 5	23 26	27 40	4 12	19 35	4 5	18 47	1 32	22 10	0 19	5 7	1 20	20 28	1 14	12 59	0 21	13 14	1 15	9 22	16 10	15 37	15 8	20 2			n.a.
M 6	23 22	26 50	4 42	19 46	3 53	18 25	1 30	22 17	0 20	5 4	1 20	20 29	1 14	12 59	0 21	13 14	1 15	9 22	16 10	15 34	15 7	20 0			n.a.
T 7	23 18	24 45	4 59	19 59	3 41	18 3	1 29	22 24	0 21	5 0	1 20	20 30	1 14	12 59	0 21	13 14	1 15	9 22	16 10	15 31	15 6	19 58			n.a.
W 8	23 13	21 36	5 3	20 12	3 28	17 40	1 27	22 30	0 21	4 57	1 19	20 31	1 14	12 58	0 21	13 15	1 15	9 23	16 11	15 27	15 5	19 55			n.a.
T 9	23 8	17 35	4 54	20 26	3 14	17 16	1 25	22 37	0 22	4 54	1 19	20 32	1 14	12 58	0 21	13 15	1 15	9 23	16 11	15 24	15 4	19 53			n.a.
F 10	23 2	12 55	4 32	20 41	2 59	16 53	1 24	22 43	0 23	4 50	1 19	20 34	1 14	12 58	0 21	13 16	1 16	9 23	16 11	15 22	15 3	19 51			n.a.
S 11	22 56	7 45	3 58	20 57	2 44	16 28	1 22	22 49	0 23	4 47	1 19	20 35	1 14	12 58	0 20	13 16	1 16	9 23	16 12	15 20	15 2	19 48			n.a.
S 12	22 50	2 16	3 13	21 13	2 28	16 4	1 20	22 55	0 24	4 43	1 19	20 36	1 14	12 58	0 20	13 17	1 16	9 24	16 12	15 19	15 1	19 46			n.a.
M13	22 43	3s24	2 19	21 29	2 12	15 38	1 18	23 1	0 25	4 40	1 18	20 37	1 14	12 58	0 20	13 17	1 16	9 24	16 12	15 19	15 0	19 44			n.a.
T 14	22 36	9 4	1 18	21 46	1 56	15 13	1 16	23 7	0 25	4 36	1 18	20 38	1 14	12 58	0 20	13 17	1 16	9 24	16 13	15 19	14 59	19 41			n.a.
W15	22 28	14 32	0 10	22 2	1 40	14 47	1 14	23 12	0 26	4 32	1 18	20 39	1 14	12 58	0 20	13 18	1 16	9 24	16 13	15 19	14 58	19 39			n.a.
T 16	22 20	19 31	0s59	22 18	1 25	14 21	1 11	23 17	0 27	4 28	1 18	20 40	1 14	12 58	0 20	13 18	1 16	9 25	16 13	15 19	14 57	19 37			n.a.
F 17	22 12	23 39	2 8	22 33	1 9	13 54	1 9	23 22	0 27	4 25	1 18	20 41	1 14	12 58	0 20	13 19	1 16	9 25	16 13	15 18	14 55	19 34			n.a.
S 18	22 3	26 31	3 11	22 48	0 53	13 27	1 7	23 27	0 28	4 21	1 17	20 42	1 14	12 58	0 20	13 19	1 16	9 25	16 14	15 17	14 54	19 32			n.a.
S 19	21 54	27 41	4 4	23 1	0 38	13 0	1 4	23 32	0 29	4 17	1 17	20 43	1 14	12 58	0 20	13 20	1 16	9 25	16 14	15 15	14 53	19 29			n.a.
M20	21 45	26 53	4 42	23 13	0 24	12 33	1 2	23 36	0 30	4 13	1 17	20 44	1 14	12 58	0 20	13 20	1 16	9 26	16 14	15 12	14 52	19 27			n.a.
T 21	21 35	24 6	5 0	23 24	0 10	12 5	0 59	23 40	0 30	4 9	1 17	20 45	1 14	12 58	0 20	13 21	1 16	9 26	16 15	15 9	14 51	19 25			n.a.
W22	21 24	19 38	4 57	23 33	0n 4	11 37	0 56	23 44	0 31	4 5	1 17	20 46	1 14	12 58	0 20	13 21	1 16	9 26	16 15	15 5	14 50	19 22			n.a.
T 23	21 14	13 58	4 34	23 39	0 17	11 8	0 54	23 48	0 32	4 1	1 16	20 47	1 14	12 58	0 20	13 22	1 16	9 27	16 15	15 3	14 49	19 20			n.a.
F 24	21 3	7 36	3 52	23 44	0 29	10 39	0 51	23 52	0 32	3 57	1 16	20 48	1 14	12 58	0 20	13 22	1 16	9 27	16 16	15 1	14 48	19 17			n.a.
S 25	20 51	0 59	2 57	23 46	0 40	10 11	0 48	23 55	0 33	3 53	1 16	20 49	1 14	12 58	0 20	13 23	1 16	9 27	16 16	14 59	14 47	19 15			n.a.
S 26	20 40	5n30	1 52	23 45	0 50	9 41	0 45	23 59	0 34	3 49	1 16	20 50	1 14	12 59	0 20	13 23	1 16	9 28	16 16	14 59	14 46	19 13			n.a.
M27	20 27	11 33	0 43	23 42	1 0	9 12	0 42	24 2	0 34	3 45	1 16	20 51	1 14	12 59	0 20	13 24	1 16	9 28	16 17	14 59	14 45	19 10			n.a.
T 28	20 15	16 55	0n26	23 37	1 8	8 42	0 39	24 5	0 35	3 41	1 15	20 52	1 14	12 59	0 20	13 24	1 16	9 28	16 17	14 59	14 44	19 8			n.a.
W29	20 2	21 24	1 33	23 28	1 16	8 12	0 36	24 8	0 36	3 36	1 15	20 53	1 14	12 59	0 20	13 25	1 16	9 29	16 17	14 58	14 43	19 5			n.a.
T 30	19 49	24 47	2 33	23 17	1 23	7 42	0 32	24 10	0 36	3 32	1 15	20 54	1 14	12 59	0 20	13 25	1 16	9 29	16 18	14 57	14 42	19 3			n.a.
F 31	19n35	26n56	3n25	23n 4	1n29	7n12	0n29	24n13	0n37	3n28	1n15	20n54	1s14	13s 0	0n20	13s26	1s16	9s30	16s18	14n56	14n41	19n 1			n.a.

Julian Day Number = 1678139.5, Delta T = 03h16m56s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'07, Lahiri = - 5°35'07 Julian Calendar 1 July 119 BCE == Greg. Calendar 28 June 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

AUGUST 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 24 47	4♌28'31	4♋59	25♋41	14♍ 9	25♊ 6	24♍24	9♊37	4♏56	28°R10	13°R47	9°R41	9♉ 2	22♌17	n.a.	S 1
S 2	20 28 43	5°26'38	17° 5	27°38	15°19	25°44	24°34	9°42	4°57	28♒ 8	13♈47	9♉30	8°59	22°23	n.a.	S 2
M 3	20 32 40	6°24'46	29° 5	29°35	16°29	26°22	24°45	9°48	4°58	28° 7	13°47	9°17	8°56	22°30	n.a.	M 3
T 4	20 36 36	7°22'56	11♌ 1	1♌33	17°39	27° 0	24°56	9°53	4°58	28° 5	13°46	9° 3	8°52	22°37	n.a.	T 4
W 5	20 40 33	8°21'07	22°53	3°31	18°49	27°38	25° 6	9°59	4°59	28° 4	13°46	8°49	8°49	22°43	n.a.	W 5
T 6	20 44 29	9°19'20	4♍44	5°28	19°59	28°16	25°17	10° 4	5° 0	28° 2	13°45	8°36	8°46	22°50	n.a.	T 6
F 7	20 48 26	10°17'35	16°35	7°24	21° 9	28°53	25°28	10° 9	5° 1	28° 0	13°45	8°25	8°43	22°57	n.a.	F 7
S 8	20 52 22	11°15'52	28°29	9°20	22°19	29°31	25°39	10°14	5° 2	27°59	13°45	8°18	8°40	23° 4	n.a.	S 8
S 9	20 56 19	12°14'11	10♎28	11°15	23°28	0♋ 9	25°50	10°19	5° 4	27°57	13°44	8°13	8°37	23°10	n.a.	S 9
M10	21 0 16	13°12'31	22°38	13°10	24°38	0°46	26° 1	10°24	5° 5	27°56	13°44	8°10	8°33	23°17	n.a.	M10
T 11	21 4 12	14°10'53	5♏ 1	15° 3	25°47	1°24	26°13	10°29	5° 6	27°54	13°43	8°10	8°30	23°24	n.a.	T 11
W12	21 8 9	15° 9'16	17°44	16°56	26°56	2° 1	26°24	10°34	5° 7	27°52	13°43	8°10	8°27	23°30	n.a.	W12
T 13	21 12 5	16° 7'41	0♐50	18°47	28° 6	2°39	26°35	10°39	5° 9	27°51	13°42	8° 9	8°24	23°37	n.a.	T 13
F 14	21 16 2	17° 6'08	14°25	20°37	29°15	3°16	26°47	10°43	5°10	27°49	13°42	8° 7	8°21	23°44	n.a.	F 14
S 15	21 19 58	18° 4'37	28°29	22°27	0♎24	3°53	26°58	10°48	5°11	27°48	13°41	8° 2	8°17	23°51	n.a.	S 15
S 16	21 23 55	19° 3'08	13♑ 2	24°15	1°33	4°30	27°10	10°52	5°13	27°46	13°41	7°55	8°14	23°57	n.a.	S 16
M17	21 27 51	20° 1'40	27°59	26° 2	2°42	5° 8	27°21	10°57	5°14	27°44	13°40	7°46	8°11	24° 4	n.a.	M17
T 18	21 31 48	21° 0'14	13♒14	27°48	3°50	5°45	27°33	11° 1	5°16	27°43	13°39	7°35	8° 8	24°11	n.a.	T 18
W19	21 35 45	21°58'50	28°36	29°33	4°59	6°22	27°45	11° 5	5°18	27°41	13°39	7°25	8° 5	24°18	n.a.	W19
T 20	21 39 41	22°57'29	13♓51	1♍17	6° 8	6°59	27°57	11° 9	5°19	27°39	13°38	7°16	8° 2	24°24	n.a.	T 20
F 21	21 43 38	23°56'09	28°51	3° 0	7°16	7°36	28° 8	11°13	5°21	27°38	13°37	7° 9	7°58	24°31	n.a.	F 21
S 22	21 47 34	24°54'51	13♈27	4°42	8°24	8°13	28°20	11°17	5°23	27°36	13°37	7° 4	7°55	24°38	n.a.	S 22
S 23	21 51 31	25°53'36	27°35	6°23	9°32	8°49	28°32	11°21	5°25	27°34	13°36	7° 2	7°52	24°44	n.a.	S 23
M24	21 55 27	26°52'23	11♉15	8° 3	10°41	9°26	28°44	11°25	5°26	27°33	13°35	7°D 2	7°49	24°51	n.a.	M24
T 25	21 59 24	27°51'13	24°28	9°42	11°49	10° 3	28°57	11°29	5°28	27°31	13°35	7°R 3	7°46	24°58	n.a.	T 25
W26	22 3 20	28°50'05	7♊17	11°19	12°56	10°40	29° 9	11°32	5°30	27°29	13°34	7° 2	7°43	25° 5	n.a.	W26
T 27	22 7 17	29°49'00	19°48	12°57	14° 4	11°16	29°21	11°36	5°32	27°28	13°33	7° 0	7°39	25°11	n.a.	T 27
F 28	22 11 14	0♍47'57	2♋ 5	14°33	15°12	11°53	29°33	11°39	5°34	27°26	13°32	6°56	7°36	25°18	n.a.	F 28
S 29	22 15 10	1°46'56	14°11	16° 8	16°19	12°29	29°45	11°42	5°36	27°24	13°32	6°49	7°33	25°25	n.a.	S 29
S 30	22 19 7	2°45'57	26° 9	17°42	17°26	13° 6	29°58	11°46	5°38	27°23	13°31	6°40	7°30	25°31	n.a.	S 30
M31	22 23 3	3♍45'01	8♌ 3	19♍16	18♎34	13♋42	0♎10	11♊49	5♏41	27♒21	13♈30	6♉29	7♉27	25♌38	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n22	27n44	4n 7	22n47	1n34	6n42	0n26	24n15	0n38	3n23	1n15	20n55	1s14	13s 0	0n20	13s26	1s16	9s30	16s18	14n53	14n40	18n58		n.a.
S 2	19 7	27 11	4 37	22 29	1 38	6 11	0 22	24 17	0 38	3 19	1 15	20 56	1 14	13 0	0 20	13 27	1 16	9 30	16 18	14 49	14 39	18 56		n.a.
M 3	18 53	25 22	4 55	22 7	1 42	5 41	0 19	24 19	0 39	3 15	1 14	20 57	1 14	13 1	0 20	13 27	1 16	9 31	16 19	14 45	14 38	18 53		n.a.
T 4	18 38	22 27	4 59	21 44	1 44	5 10	0 15	24 20	0 40	3 10	1 14	20 58	1 14	13 1	0 20	13 28	1 16	9 31	16 19	14 40	14 37	18 51		n.a.
W 5	18 23	18 36	4 50	21 19	1 46	4 39	0 11	24 22	0 40	3 6	1 14	20 58	1 14	13 1	0 20	13 29	1 16	9 31	16 19	14 36	14 36	18 48		n.a.
T 6	18 7	14 3	4 29	20 51	1 47	4 8	0 8	24 23	0 41	3 1	1 14	20 59	1 14	13 2	0 20	13 29	1 16	9 32	16 20	14 32	14 35	18 46		n.a.
F 7	17 52	8 58	3 56	20 22	1 48	3 36	0 4	24 24	0 42	2 57	1 14	21 0	1 14	13 2	0 20	13 30	1 16	9 32	16 20	14 28	14 34	18 43		n.a.
S 8	17 36	3 33	3 13	19 51	1 47	3 5	0 0	24 25	0 43	2 52	1 14	21 1	1 14	13 2	0 20	13 30	1 16	9 33	16 20	14 26	14 33	18 41		n.a.
S 9	17 19	2s 2	2 21	19 18	1 47	2 34	0s 4	24 26	0 43	2 48	1 13	21 1	1 14	13 3	0 20	13 31	1 16	9 33	16 20	14 24	14 32	18 38		n.a.
M10	17 3	7 39	1 21	18 44	1 45	2 2	0 8	24 27	0 44	2 43	1 13	21 2	1 14	13 3	0 20	13 31	1 16	9 34	16 21	14 23	14 31	18 36		n.a.
T 11	16 46	13 5	0 17	18 9	1 43	1 31	0 12	24 27	0 45	2 38	1 13	21 3	1 14	13 4	0 20	13 32	1 17	9 34	16 21	14 23	14 30	18 33		n.a.
W12	16 28	18 7	0s50	17 32	1 41	0 59	0 16	24 27	0 45	2 34	1 13	21 3	1 15	13 4	0 20	13 33	1 17	9 34	16 21	14 23	14 29	18 31		n.a.
T 13	16 11	22 28	1 57	16 55	1 38	0 28	0 20	24 27	0 46	2 29	1 13	21 4	1 15	13 5	0 20	13 33	1 17	9 35	16 22	14 23	14 28	18 28		n.a.
F 14	15 53	25 45	2 59	16 16	1 35	0s 4	0 24	24 27	0 47	2 24	1 13	21 5	1 15	13 5	0 20	13 34	1 17	9 35	16 22	14 22	14 27	18 26		n.a.
S 15	15 35	27 35	3 53	15 37	1 31	0 35	0 28	24 27	0 47	2 19	1 13	21 5	1 15	13 6	0 20	13 34	1 17	9 36	16 22	14 21	14 26	18 23		n.a.
S 16	15 17	27 36	4 33	14 57	1 27	1 7	0 32	24 26	0 48	2 15	1 12	21 6	1 15	13 6	0 20	13 35	1 17	9 36	16 22	14 19	14 25	18 21		n.a.
M17	14 58	25 38	4 57	14 16	1 22	1 38	0 36	24 26	0 49	2 10	1 12	21 6	1 15	13 7	0 20	13 35	1 17	9 37	16 23	14 15	14 24	18 18		n.a.
T 18	14 39	21 48	4 59	13 35	1 18	2 10	0 40	24 25	0 50	2 5	1 12	21 7	1 15	13 7	0 19	13 36	1 17	9 37	16 23	14 12	14 23	18 16		n.a.
W19	14 20	16 28	4 41	12 53	1 13	2 41	0 45	24 24	0 50	2 0	1 12	21 8	1 15	13 8	0 19	13 37	1 17	9 38	16 23	14 9	14 22	18 13		n.a.
T 20	14 1	10 8	4 2	12 11	1 7	3 13	0 49	24 22	0 51	1 55	1 12	21 8	1 15	13 8	0 19	13 37	1 17	9 38	16 23	14 5	14 21	18 11		n.a.
F 21	13 42	3 19	3 8	11 29	1 2	3 44	0 53	24 21	0 52	1 51	1 12	21 9	1 15	13 9	0 19	13 38	1 17	9 39	16 24	14 3	14 20	18 8		n.a.
S 22	13 22	3n30	2 2	10 46	0 56	4 15	0 58	24 20	0 52	1 46	1 12	21 9	1 15	13 10	0 19	13 38	1 17	9 39	16 24	14 2	14 18	18 6		n.a.
S 23	13 2	9 57	0 50	10 2	0 50	4 46	1 2	24 18	0 53	1 41	1 11	21 10	1 15	13 10	0 19	13 39	1 17	9 40	16 24	14 1	14 17	18 3		n.a.
M24	12 42	15 44	0n22	9 19	0 44	5 17	1 7	24 16	0 54	1 36	1 11	21 10	1 15	13 11	0 19	13 40	1 17	9 40	16 24	14 1	14 16	18 1		n.a.
T 25	12 21	20 34	1 31	8 36	0 37	5 48	1 11	24 14	0 55	1 31	1 11	21 11	1 15	13 11	0 19	13 40	1 17	9 41	16 24	14 1	14 15	17 58		n.a.
W26	12 1	24 18	2 33	7 52	0 31	6 19	1 15	24 12	0 55	1 26	1 11	21 11	1 15	13 12	0 19	13 41	1 17	9 41	16 25	14 1	14 14	17 55		n.a.
T 27	11 40	26 45	3 27	7 8	0 24	6 50	1 20	24 10	0 56	1 21	1 11	21 11	1 15	13 13	0 19	13 41	1 17	9 42	16 25	14 0	14 13	17 53		n.a.
F 28	11 19	27 51	4 9	6 25	0 17	7 21	1 24	24 7	0 57	1 16	1 11	21 12	1 15	13 14	0 19	13 42	1 17	9 42	16 25	13 59	14 12	17 50		n.a.
S 29	10 58	27 35	4 40	5 41	0 10	7 51	1 29	24 4	0 58	1 11	1 11	21 12	1 15	13 14	0 19	13 43	1 17	9 43	16 25	13 57	14 11	17 48		n.a.
S 30	10 36	26 2	4 58	4 58	0 3	8 21	1 33	24 2	0 58	1 6	1 11	21 13	1 15	13 15	0 19	13 43	1 17	9 43	16 26	13 54	14 10	17 45		n.a.
M31	10n15	23n19	5n 3	4n14	0s 4	8s51	1s38	23n59	0n59	1n 1	1n11	21n13	1s15	13s16	0n19	13s44	1s17	9s44	16s26	13n50	14n 9	17n43		n.a.

Julian Day Number = 1678170.5, Delta T = 03h16m55s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°42'03, Lahiri = - 5°35'03 Julian Calendar 1 Aug. 119 BCE == Greg. Calendar 29 July 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

SEPTEMBER 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 27 0	4♍44'07	19♌55	20♍48	19♎41	14♋18	0♎23	11♊52	5♏43	27°R19	13°R29	6°R17	7♉23	25♌45	n.a.	T 1
W 2	22 30 56	5°43'16	1♍47	22°20	20°48	14°55	0°35	11°55	5°45	27♒18	13♈28	6♉ 5	7°20	25°52	n.a.	W 2
T 3	22 34 53	6°42'26	13°40	23°51	21°54	15°31	0°48	11°57	5°47	27°16	13°27	5°54	7°17	25°58	n.a.	T 3
F 4	22 38 49	7°41'38	25°35	25°21	23° 1	16° 7	1° 0	12° 0	5°50	27°15	13°26	5°45	7°14	26° 5	n.a.	F 4
S 5	22 42 46	8°40'53	7♎34	26°50	24° 7	16°43	1°13	12° 3	5°52	27°13	13°26	5°39	7°11	26°12	n.a.	S 5
S 6	22 46 42	9°40'09	19°40	28°18	25°14	17°19	1°26	12° 5	5°54	27°11	13°25	5°35	7° 8	26°18	n.a.	S 6
M 7	22 50 39	10°39'28	1♏55	29°45	26°20	17°55	1°38	12° 8	5°57	27°10	13°24	5°D33	7° 4	26°25	n.a.	M 7
T 8	22 54 36	11°38'48	14°22	1♎11	27°26	18°31	1°51	12°10	5°59	27° 8	13°23	5°34	7° 1	26°32	n.a.	T 8
W 9	22 58 32	12°38'11	27° 6	2°37	28°32	19° 7	2° 4	12°12	6° 2	27° 6	13°22	5°35	6°58	26°39	n.a.	W 9
T 10	23 2 29	13°37'35	10♐ 9	4° 1	29°37	19°42	2°16	12°14	6° 5	27° 5	13°21	5°R35	6°55	26°45	n.a.	T 10
F 11	23 6 25	14°37'01	23°36	5°25	0♏43	20°18	2°29	12°16	6° 7	27° 3	13°20	5°35	6°52	26°52	n.a.	F 11
S 12	23 10 22	15°36'29	7♑29	6°48	1°48	20°54	2°42	12°18	6°10	27° 2	13°19	5°33	6°49	26°59	n.a.	S 12
S 13	23 14 18	16°35'59	21°49	8° 9	2°53	21°29	2°55	12°20	6°12	27° 0	13°18	5°29	6°45	27° 5	n.a.	S 13
M14	23 18 15	17°35'31	6♒33	9°30	3°57	22° 5	3° 8	12°21	6°15	26°59	13°17	5°23	6°42	27°12	n.a.	M14
T 15	23 22 11	18°35'05	21°35	10°49	5° 2	22°40	3°21	12°23	6°18	26°57	13°16	5°16	6°39	27°19	n.a.	T 15
W16	23 26 8	19°34'40	6♓48	12° 7	6° 6	23°15	3°34	12°24	6°21	26°56	13°15	5° 9	6°36	27°26	n.a.	W16
T 17	23 30 5	20°34'17	22° 0	13°24	7°10	23°51	3°47	12°25	6°24	26°54	13°14	5° 2	6°33	27°32	n.a.	T 17
F 18	23 34 1	21°33'57	7♈ 1	14°39	8°14	24°26	4° 0	12°26	6°26	26°53	13°13	4°58	6°29	27°39	n.a.	F 18
S 19	23 37 58	22°33'39	21°43	15°53	9°18	25° 1	4°13	12°28	6°29	26°51	13°12	4°55	6°26	27°46	n.a.	S 19
S 20	23 41 54	23°33'23	5♉59	17° 6	10°21	25°36	4°26	12°29	6°32	26°50	13°11	4°D54	6°23	27°52	n.a.	S 20
M21	23 45 51	24°33'09	19°48	18°16	11°24	26°11	4°39	12°29	6°35	26°48	13°10	4°55	6°20	27°59	n.a.	M21
T 22	23 49 47	25°32'58	3♊ 9	19°25	12°27	26°46	4°52	12°30	6°38	26°47	13° 9	4°57	6°17	28° 6	n.a.	T 22
W23	23 53 44	26°32'49	16° 4	20°32	13°29	27°21	5° 5	12°31	6°41	26°45	13° 8	4°58	6°14	28°13	n.a.	W23
T 24	23 57 40	27°32'43	28°38	21°36	14°31	27°55	5°18	12°31	6°44	26°44	13° 6	4°R58	6°10	28°19	n.a.	T 24
F 25	0 1 37	28°32'39	10♋55	22°38	15°33	28°30	5°32	12°32	6°47	26°43	13° 5	4°58	6° 7	28°26	n.a.	F 25
S 26	0 5 34	29°32'37	22°59	23°38	16°35	29° 5	5°45	12°32	6°50	26°41	13° 4	4°55	6° 4	28°33	n.a.	S 26
S 27	0 9 30	0♎32'37	4♌56	24°34	17°36	29°39	5°58	12°32	6°54	26°40	13° 3	4°51	6° 1	28°39	n.a.	S 27
M28	0 13 27	1°32'39	16°47	25°27	18°37	0♌13	6°11	12°R32	6°57	26°39	13° 2	4°46	5°58	28°46	n.a.	M28
T 29	0 17 23	2°32'44	28°38	26°16	19°38	0°48	6°24	12°32	7° 0	26°37	13° 1	4°40	5°54	28°53	n.a.	T 29
W30	0 21 20	3♎32'51	10♍31	27♎ 0	20♏38	1♌22	6♎37	12♊32	7♏ 3	26♒36	13♈ 0	4♉34	5♉51	29♌ 0	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n53	19n39	4n54	3n31	0s11	9s21	1s42	23n55	1n 0	0n55	1n10	21n13	1s15	13s17	0n19	13s44	1s17	9s44	16s26	13n46	14n 8	17n40		n.a.
W 2	9 31	15 12	4 33	2 48	0 18	9 51	1 47	23 52	1 1	0 50	1 10	21 14	1 15	13 17	0 19	13 45	1 17	9 45	16 26	13 42	14 7	17 37		n.a.
T 3	9 9	10 11	4 0	2 5	0 26	10 21	1 51	23 49	1 1	0 45	1 10	21 14	1 15	13 18	0 19	13 45	1 17	9 45	16 26	13 38	14 6	17 35		n.a.
F 4	8 47	4 47	3 17	1 22	0 33	10 50	1 56	23 45	1 2	0 40	1 10	21 14	1 16	13 19	0 19	13 46	1 17	9 46	16 27	13 35	14 5	17 32		n.a.
S 5	8 24	0s50	2 24	0 40	0 40	11 19	2 0	23 41	1 3	0 35	1 10	21 15	1 16	13 20	0 19	13 47	1 17	9 46	16 27	13 33	14 4	17 30		n.a.
S 6	8 2	6 29	1 24	0s 2	0 47	11 48	2 5	23 38	1 4	0 30	1 10	21 15	1 16	13 21	0 19	13 47	1 17	9 47	16 27	13 32	14 3	17 27		n.a.
M 7	7 39	11 58	0 20	0 44	0 55	12 16	2 9	23 33	1 4	0 25	1 10	21 15	1 16	13 21	0 19	13 48	1 17	9 47	16 27	13 31	14 2	17 24		n.a.
T 8	7 16	17 5	0s47	1 26	1 2	12 45	2 13	23 29	1 5	0 19	1 10	21 15	1 16	13 22	0 19	13 48	1 17	9 48	16 27	13 31	14 1	17 22		n.a.
W 9	6 54	21 34	1 53	2 7	1 9	13 13	2 18	23 25	1 6	0 14	1 10	21 16	1 16	13 23	0 19	13 49	1 17	9 48	16 27	13 32	14 0	17 19		n.a.
T 10	6 31	25 7	2 55	2 47	1 16	13 41	2 22	23 21	1 7	0 9	1 10	21 16	1 16	13 24	0 19	13 49	1 17	9 49	16 28	13 32	13 59	17 16		n.a.
F 11	6 7	27 22	3 49	3 27	1 24	14 8	2 27	23 16	1 7	0 4	1 10	21 16	1 16	13 25	0 19	13 50	1 17	9 49	16 28	13 32	13 58	17 14		n.a.
S 12	5 44	28 1	4 32	4 7	1 31	14 35	2 31	23 11	1 8	0s 2	1 9	21 16	1 16	13 26	0 19	13 50	1 17	9 50	16 28	13 31	13 57	17 11		n.a.
S 13	5 21	26 50	4 59	4 46	1 38	15 2	2 35	23 6	1 9	0 7	1 9	21 16	1 16	13 27	0 19	13 51	1 17	9 50	16 28	13 30	13 55	17 9		n.a.
M14	4 57	23 48	5 7	5 24	1 44	15 28	2 39	23 1	1 10	0 12	1 9	21 17	1 16	13 28	0 19	13 52	1 17	9 51	16 28	13 28	13 54	17 6		n.a.
T 15	4 34	19 7	4 55	6 2	1 51	15 55	2 44	22 56	1 10	0 17	1 9	21 17	1 16	13 29	0 19	13 52	1 17	9 51	16 28	13 25	13 53	17 3		n.a.
W16	4 10	13 10	4 22	6 39	1 58	16 20	2 48	22 51	1 11	0 23	1 9	21 17	1 16	13 30	0 19	13 53	1 17	9 52	16 28	13 23	13 52	17 1		n.a.
T 17	3 47	6 26	3 31	7 15	2 4	16 46	2 52	22 46	1 12	0 28	1 9	21 17	1 16	13 30	0 19	13 53	1 17	9 52	16 28	13 21	13 51	16 58		n.a.
F 18	3 23	0n36	2 25	7 50	2 10	17 11	2 56	22 40	1 13	0 33	1 9	21 17	1 16	13 31	0 19	13 54	1 17	9 53	16 29	13 19	13 50	16 55		n.a.
S 19	2 59	7 28	1 11	8 25	2 16	17 36	3 0	22 35	1 13	0 38	1 9	21 17	1 16	13 32	0 19	13 54	1 17	9 53	16 29	13 18	13 49	16 53		n.a.
S 20	2 35	13 46	0n 6	8 58	2 22	18 0	3 4	22 29	1 14	0 44	1 9	21 17	1 16	13 33	0 19	13 55	1 17	9 54	16 29	13 18	13 48	16 50		n.a.
M21	2 11	19 10	1 20	9 31	2 28	18 24	3 8	22 23	1 15	0 49	1 9	21 17	1 16	13 34	0 19	13 55	1 17	9 54	16 29	13 18	13 47	16 47		n.a.
T 22	1 47	23 26	2 27	10 2	2 33	18 47	3 12	22 17	1 16	0 54	1 9	21 17	1 16	13 35	0 19	13 56	1 17	9 55	16 29	13 19	13 46	16 44		n.a.
W23	1 23	26 22	3 25	10 32	2 38	19 10	3 15	22 11	1 17	1 0	1 9	21 17	1 17	13 36	0 19	13 56	1 17	9 55	16 29	13 19	13 45	16 42		n.a.
T 24	0 59	27 53	4 11	11 1	2 42	19 33	3 19	22 5	1 17	1 5	1 9	21 17	1 17	13 37	0 19	13 56	1 17	9 56	16 29	13 20	13 44	16 39		n.a.
F 25	0 35	27 59	4 44	11 28	2 46	19 55	3 23	21 58	1 18	1 10	1 9	21 17	1 17	13 39	0 19	13 57	1 17	9 56	16 29	13 19	13 43	16 36		n.a.
S 26	0 11	26 44	5 4	11 54	2 50	20 16	3 26	21 52	1 19	1 16	1 9	21 17	1 17	13 40	0 19	13 57	1 17	9 57	16 29	13 18	13 42	16 34		n.a.
S 27	0s13	24 16	5 11	12 18	2 53	20 37	3 30	21 45	1 20	1 21	1 9	21 17	1 17	13 41	0 19	13 58	1 17	9 57	16 29	13 17	13 41	16 31		n.a.
M28	0 37	20 48	5 4	12 40	2 56	20 58	3 33	21 39	1 21	1 26	1 9	21 17	1 17	13 42	0 19	13 58	1 17	9 57	16 29	13 15	13 40	16 28		n.a.
T 29	1 1	16 31	4 45	13 0	2 58	21 18	3 36	21 32	1 22	1 31	1 9	21 17	1 17	13 43	0 19	13 59	1 17	9 58	16 29	13 13	13 38	16 26		n.a.
W30	1s26	11n35	4n12	13s18	2s59	21s38	3s40	21n25	1n22	1s37	1n 8	21n17	1s17	13s44	0n19	13s59	1s17	9s58	16s29	13n11	13n37	16n23		n.a.

Julian Day Number = 1678201.5, Delta T = 03h16m54s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'59, Lahiri = - 5°34'58 Julian Calendar 1 Sept. 119 BCE == Greg. Calendar 29 Aug. 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

OCTOBER 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 25 16	4♎32'59	22♍28	27♎41	21♏38	1♌56	6♎51	12°R32	7♏ 6	26°R35	12°R59	4°R28	5♉48	29♌ 6	n.a.	T 1
F 2	0 29 13	5°33'10	4♎31	28°16	22°37	2°30	7° 4	12♊31	7°10	26♒34	12♈58	4♉24	5°45	29°13	n.a.	F 2
S 3	0 33 9	6°33'23	16°41	28°45	23°36	3° 4	7°17	12°31	7°13	26°33	12°56	4°21	5°42	29°20	n.a.	S 3
S 4	0 37 6	7°33'37	29° 0	29° 8	24°35	3°38	7°30	12°30	7°16	26°31	12°55	4°D20	5°39	29°26	n.a.	S 4
M 5	0 41 2	8°33'54	11♏28	29°24	25°33	4°12	7°44	12°29	7°20	26°30	12°54	4°20	5°35	29°33	n.a.	M 5
T 6	0 44 59	9°34'12	24° 9	29°33	26°31	4°45	7°57	12°28	7°23	26°29	12°53	4°21	5°32	29°40	n.a.	T 6
W 7	0 48 56	10°34'32	7♐ 4	29°R33	27°28	5°19	8°10	12°27	7°26	26°28	12°52	4°23	5°29	29°47	n.a.	W 7
T 8	0 52 52	11°34'53	20°14	29°25	28°25	5°53	8°23	12°26	7°30	26°27	12°51	4°24	5°26	29°53	n.a.	T 8
F 9	0 56 49	12°35'16	3♑41	29° 7	29°21	6°26	8°36	12°25	7°33	26°26	12°50	4°25	5°23	29°59	n.a.	F 9
S 10	1 0 45	13°35'41	17°28	28°39	0♐17	6°59	8°50	12°24	7°37	26°25	12°49	4°R25	5°20	0♍ 7	n.a.	S 10
S 11	1 4 42	14°36'07	1♒34	28° 1	1°12	7°32	9° 3	12°22	7°40	26°24	12°47	4°25	5°16	0°13	n.a.	S 11
M12	1 8 38	15°36'34	15°58	27°14	2° 7	8° 5	9°16	12°21	7°44	26°23	12°46	4°23	5°13	0°20	n.a.	M12
T 13	1 12 35	16°37'03	0♓38	26°17	3° 1	8°38	9°29	12°19	7°47	26°22	12°45	4°21	5°10	0°27	n.a.	T 13
W14	1 16 31	17°37'33	15°26	25°12	3°55	9°11	9°42	12°18	7°51	26°21	12°44	4°18	5° 7	0°34	n.a.	W14
T 15	1 20 28	18°38'04	0♈17	23°59	4°47	9°44	9°56	12°16	7°54	26°20	12°43	4°16	5° 4	0°40	n.a.	T 15
F 16	1 24 25	19°38'38	15° 3	22°42	5°39	10°17	10° 9	12°14	7°58	26°19	12°42	4°15	5° 0	0°47	n.a.	F 16
S 17	1 28 21	20°39'12	29°36	21°21	6°31	10°49	10°22	12°12	8° 1	26°19	12°41	4°D14	4°57	0°54	n.a.	S 17
S 18	1 32 18	21°39'49	13♉50	20° 1	7°21	11°22	10°35	12°10	8° 5	26°18	12°40	4°14	4°54	1° 0	n.a.	S 18
M19	1 36 14	22°40'27	27°41	18°42	8°11	11°54	10°48	12° 7	8° 9	26°17	12°38	4°15	4°51	1° 7	n.a.	M19
T 20	1 40 11	23°41'07	11♊ 7	17°29	9° 0	12°26	11° 1	12° 5	8°12	26°16	12°37	4°16	4°48	1°14	n.a.	T 20
W21	1 44 7	24°41'49	24° 8	16°23	9°49	12°58	11°14	12° 2	8°16	26°16	12°36	4°17	4°45	1°20	n.a.	W21
T 22	1 48 4	25°42'32	6♋48	15°26	10°36	13°30	11°27	12° 0	8°19	26°15	12°35	4°18	4°41	1°27	n.a.	T 22
F 23	1 52 0	26°43'17	19° 9	14°40	11°23	14° 2	11°40	11°57	8°23	26°14	12°34	4°18	4°38	1°34	n.a.	F 23
S 24	1 55 57	27°44'04	1♌16	14° 5	12° 8	14°34	11°53	11°54	8°27	26°14	12°33	4°R18	4°35	1°41	n.a.	S 24
S 25	1 59 54	28°44'52	13°13	13°41	12°53	15° 6	12° 6	11°52	8°30	26°13	12°32	4°18	4°32	1°47	n.a.	S 25
M26	2 3 50	29°45'43	25° 4	13°30	13°37	15°37	12°19	11°49	8°34	26°13	12°31	4°18	4°29	1°54	n.a.	M26
T 27	2 7 47	0♏46'34	6♍56	13°D29	14°20	16° 8	12°32	11°46	8°38	26°12	12°30	4°17	4°26	2° 1	n.a.	T 27
W28	2 11 43	1°47'27	18°50	13°39	15° 1	16°40	12°45	11°42	8°41	26°12	12°29	4°17	4°22	2° 7	n.a.	W28
T 29	2 15 40	2°48'22	0♎52	13°59	15°42	17°11	12°58	11°39	8°45	26°11	12°28	4°17	4°19	2°14	n.a.	T 29
F 30	2 19 36	3°49'18	13° 2	14°28	16°21	17°42	13°11	11°36	8°49	26°11	12°26	4°D16	4°16	2°21	n.a.	F 30
S 31	2 23 33	4♏50'15	25♎25	15♎ 4	16♐59	18♌12	13♎23	11♊32	8♏52	26♒10	12♈25	4♉16	4♉13	2♍28	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	1s50	6n13	3n29	13s34	3s 0	21s57	3s43	21n18	1n23	1s42	1n 8	21n17	1s17	13s45	0n19	14s 0	1s17	9s59	16s30	13n 9	13n36	16n20		n.a.	
F 2	2 14	0 34	2 36	13 46	3 0	22 16	3 46	21 11	1 24	1 47	1 8	21 17	1 17	13 46	0 19	14 0	1 17	9 59	16 30	13 8	13 35	16 17		n.a.	
S 3	2 38	5s10	1 35	13 56	2 59	22 34	3 49	21 4	1 25	1 53	1 8	21 17	1 17	13 47	0 19	14 0	1 16	10 0	16 30	13 7	13 34	16 15		n.a.	
S 4	3 2	10 47	0 29	14 2	2 56	22 52	3 51	20 57	1 26	1 58	1 8	21 17	1 17	13 48	0 18	14 1	1 16	10 0	16 30	13 6	13 33	16 12		n.a.	
M 5	3 26	16 4	0s39	14 5	2 53	23 9	3 54	20 50	1 27	2 3	1 8	21 17	1 17	13 49	0 18	14 1	1 16	10 1	16 30	13 7	13 32	16 9		n.a.	
T 6	3 50	20 45	1 47	14 3	2 48	23 25	3 56	20 42	1 27	2 9	1 8	21 16	1 17	13 50	0 18	14 1	1 16	10 1	16 30	13 7	13 31	16 6		n.a.	
W 7	4 14	24 32	2 50	13 58	2 42	23 41	3 59	20 35	1 28	2 14	1 8	21 16	1 17	13 52	0 18	14 2	1 16	10 1	16 30	13 7	13 30	16 4		n.a.	
T 8	4 38	27 7	3 46	13 48	2 35	23 57	4 1	20 27	1 29	2 19	1 8	21 16	1 17	13 53	0 18	14 2	1 16	10 2	16 30	13 8	13 29	16 1		n.a.	
F 9	5 2	28 11	4 31	13 33	2 25	24 12	4 3	20 20	1 30	2 24	1 8	21 16	1 17	13 54	0 18	14 2	1 16	10 2	16 30	13 8	13 28	15 58		n.a.	
S 10	5 25	27 32	5 2	13 13	2 15	24 26	4 5	20 12	1 31	2 30	1 8	21 16	1 17	13 55	0 18	14 3	1 16	10 3	16 30	13 8	13 27	15 55		n.a.	
S 11	5 49	25 9	5 15	12 47	2 2	24 40	4 7	20 4	1 32	2 35	1 8	21 15	1 17	13 56	0 18	14 3	1 16	10 3	16 30	13 8	13 26	15 53		n.a.	
M12	6 13	21 8	5 9	12 16	1 47	24 53	4 9	19 56	1 33	2 40	1 8	21 15	1 17	13 57	0 18	14 3	1 16	10 4	16 29	13 8	13 25	15 50		n.a.	
T 13	6 36	15 46	4 43	11 40	1 31	25 5	4 10	19 48	1 33	2 45	1 8	21 15	1 17	13 59	0 18	14 4	1 16	10 4	16 29	13 7	13 24	15 47		n.a.	
W14	7 0	9 27	3 58	11 0	1 14	25 17	4 12	19 41	1 34	2 51	1 8	21 15	1 17	14 0	0 18	14 4	1 16	10 4	16 29	13 6	13 22	15 44		n.a.	
T 15	7 23	2 35	2 57	10 15	0 55	25 29	4 13	19 32	1 35	2 56	1 8	21 14	1 17	14 1	0 18	14 4	1 16	10 5	16 29	13 5	13 21	15 41		n.a.	
F 16	7 46	4n24	1 44	9 28	0 35	25 39	4 14	19 24	1 36	3 1	1 8	21 14	1 17	14 2	0 18	14 5	1 16	10 5	16 29	13 5	13 20	15 39		n.a.	
S 17	8 9	11 3	0 26	8 38	0 14	25 49	4 15	19 16	1 37	3 6	1 8	21 14	1 17	14 3	0 18	14 5	1 16	10 5	16 29	13 5	13 19	15 36		n.a.	
S 18	8 32	17 1	0n53	7 48	0n 7	25 59	4 16	19 8	1 38	3 12	1 8	21 14	1 17	14 4	0 18	14 5	1 16	10 6	16 29	13 5	13 18	15 33		n.a.	
M19	8 55	21 55	2 6	7 0	0 27	26 8	4 16	19 0	1 39	3 17	1 8	21 13	1 18	14 6	0 18	14 5	1 16	10 6	16 29	13 5	13 17	15 30		n.a.	
T 20	9 18	25 30	3 10	6 13	0 47	26 16	4 16	18 51	1 40	3 22	1 8	21 13	1 18	14 7	0 18	14 6	1 16	10 7	16 29	13 5	13 16	15 27		n.a.	
W21	9 40	27 37	4 3	5 31	1 5	26 24	4 16	18 43	1 41	3 27	1 8	21 13	1 18	14 8	0 18	14 6	1 16	10 7	16 29	13 6	13 15	15 25		n.a.	
T 22	10 3	28 13	4 41	4 53	1 22	26 31	4 16	18 35	1 42	3 32	1 8	21 12	1 18	14 9	0 18	14 6	1 16	10 7	16 29	13 6	13 14	15 22		n.a.	
F 23	10 25	27 22	5 6	4 22	1 37	26 37	4 16	18 26	1 43	3 37	1 8	21 12	1 18	14 10	0 18	14 6	1 16	10 8	16 29	13 6	13 13	15 19		n.a.	
S 24	10 47	25 15	5 17	3 56	1 50	26 43	4 15	18 18	1 44	3 42	1 8	21 11	1 18	14 12	0 18	14 6	1 16	10 8	16 29	13 6	13 12	15 16		n.a.	
S 25	11 9	22 2	5 13	3 37	2 1	26 48	4 14	18 9	1 44	3 48	1 8	21 11	1 18	14 13	0 18	14 7	1 16	10 8	16 28	13 6	13 11	15 13		n.a.	
M26	11 31	17 57	4 56	3 24	2 10	26 53	4 13	18 1	1 45	3 53	1 8	21 11	1 18	14 14	0 18	14 7	1 16	10 8	16 28	13 6	13 10	15 10		n.a.	
T 27	11 52	13 11	4 27	3 17	2 17	26 57	4 12	17 52	1 46	3 58	1 8	21 10	1 18	14 15	0 18	14 7	1 16	10 9	16 28	13 6	13 8	15 8		n.a.	
W28	12 14	7 56	3 46	3 16	2 23	27 0	4 10	17 43	1 47	4 3	1 8	21 10	1 18	14 16	0 18	14 7	1 16	10 9	16 28	13 5	13 7	15 5		n.a.	
T 29	12 35	2 19	2 55	3 20	2 26	27 3	4 8	17 35	1 48	4 8	1 8	21 9	1 18	14 18	0 18	14 7	1 16	10 9	16 28	13 5	13 6	15 2		n.a.	
F 30	12 56	3s27	1 55	3 29	2 29	27 5	4 6	17 26	1 49	4 13	1 8	21 9	1 18	14 19	0 18	14 7	1 16	10 10	16 28	13 5	13 5	14 59		n.a.	
S 31	13s17	9s11	0n49	3s42	2n30	27s 7	4s 4	17n17	1n50	4s18	1n 8	21n 9	1s18	14s20	0n18	14s 7	1s16	10s10	16s28	13n 5	13n 4	14n56		n.a.	

Julian Day Number = 1678231.5, Delta T = 03h16m53s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'55, Lahiri = - 5°34'54 Julian Calendar 1 Oct. 119 BCE == Greg. Calendar 28 Sept. 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

NOVEMBER 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 29	5♏51'13	8♏ 1	15♎48	17♐36	18♑43	13♎36	11°R29	8♏56	26°R10	12°R24	4°R16	4♉10	2♍34	n.a.	S 1
M 2	2 31 26	6°52'13	20°50	16°38	18°11	19°13	13°49	11♊25	9° 0	26♒10	12♈23	4♉16	4° 6	2°41	n.a.	M 2
T 3	2 35 23	7°53'14	3♐53	17°34	18°45	19°44	14° 2	11°22	9° 4	26° 9	12°22	4°16	4° 3	2°48	n.a.	T 3
W 4	2 39 19	8°54'16	17° 9	18°35	19°18	20°14	14°14	11°18	9° 7	26° 9	12°21	4°16	4° 0	2°54	n.a.	W 4
T 5	2 43 16	9°55'18	0♑38	19°40	19°49	20°44	14°27	11°14	9°11	26° 9	12°20	4°15	3°57	3° 1	n.a.	T 5
F 6	2 47 12	10°56'22	14°20	20°48	20°19	21°14	14°39	11°10	9°15	26° 9	12°19	4°14	3°54	3° 8	n.a.	F 6
S 7	2 51 9	11°57'26	28°12	22° 0	20°47	21°44	14°52	11° 6	9°18	26° 9	12°18	4°14	3°51	3°15	n.a.	S 7
S 8	2 55 5	12°58'31	12♒14	23°15	21°13	22°13	15° 4	11° 2	9°22	26° 9	12°17	4°D13	3°47	3°21	n.a.	S 8
M 9	2 59 2	13°59'36	26°25	24°31	21°37	22°42	15°17	10°58	9°26	26° 9	12°17	4°14	3°44	3°28	n.a.	M 9
T 10	3 2 58	15° 0'42	10♓43	25°50	22° 0	23°12	15°29	10°54	9°29	26° 9	12°16	4°14	3°41	3°35	n.a.	T 10
W11	3 6 55	16° 1'48	25° 4	27°11	22°21	23°41	15°42	10°50	9°33	26°D 9	12°15	4°15	3°38	3°41	n.a.	W11
T 12	3 10 52	17° 2'55	9♈25	28°33	22°40	24° 9	15°54	10°45	9°37	26° 9	12°14	4°16	3°35	3°48	n.a.	T 12
F 13	3 14 48	18° 4'02	23°43	29°57	22°56	24°38	16° 6	10°41	9°40	26° 9	12°13	4°17	3°31	3°55	n.a.	F 13
S 14	3 18 45	19° 5'10	7♉52	1♏21	23°11	25° 7	16°18	10°37	9°44	26° 9	12°12	4°R17	3°28	4° 1	n.a.	S 14
S 15	3 22 41	20° 6'18	21°49	2°47	23°24	25°35	16°30	10°32	9°48	26° 9	12°11	4°17	3°25	4° 8	n.a.	S 15
M16	3 26 38	21° 7'28	5♊29	4°13	23°34	26° 3	16°42	10°28	9°51	26° 9	12°10	4°15	3°22	4°15	n.a.	M16
T 17	3 30 34	22° 8'38	18°50	5°40	23°42	26°31	16°54	10°23	9°55	26° 9	12° 9	4°13	3°19	4°22	n.a.	T 17
W18	3 34 31	23° 9'49	1♋52	7° 8	23°48	26°58	17° 6	10°19	9°59	26°10	12° 9	4°10	3°16	4°28	n.a.	W18
T 19	3 38 28	24°11'00	14°33	8°37	23°51	27°26	17°18	10°14	10° 2	26°10	12° 8	4° 7	3°12	4°35	n.a.	T 19
F 20	3 42 24	25°12'12	26°57	10° 5	23°R52	27°53	17°30	10° 9	10° 6	26°10	12° 7	4° 4	3° 9	4°42	n.a.	F 20
S 21	3 46 21	26°13'25	9♌ 7	11°35	23°50	28°20	17°42	10° 4	10°10	26°10	12° 6	4° 2	3° 6	4°48	n.a.	S 21
S 22	3 50 17	27°14'38	21° 5	13° 5	23°46	28°47	17°53	10° 0	10°13	26°11	12° 5	4° 1	3° 3	4°55	n.a.	S 22
M23	3 54 14	28°15'52	2♍57	14°35	23°40	29°14	18° 5	9°55	10°17	26°11	12° 5	4°D 0	3° 0	5° 2	n.a.	M23
T 24	3 58 10	29°17'07	14°48	16° 5	23°31	29°40	18°17	9°50	10°20	26°12	12° 4	4° 1	2°57	5° 8	n.a.	T 24
W25	4 2 7	0♐18'22	26°43	17°36	23°19	0♍ 6	18°28	9°45	10°24	26°12	12° 3	4° 3	2°53	5°15	n.a.	W25
T 26	4 6 3	1°19'38	8♎46	19° 7	23° 5	0°32	18°39	9°40	10°27	26°13	12° 3	4° 5	2°50	5°22	n.a.	T 26
F 27	4 10 0	2°20'54	21° 2	20°39	22°49	0°58	18°51	9°35	10°31	26°13	12° 2	4° 6	2°47	5°29	n.a.	F 27
S 28	4 13 57	3°22'10	3♏34	22°11	22°30	1°23	19° 2	9°30	10°34	26°14	12° 1	4°R 7	2°44	5°35	n.a.	S 28
S 29	4 17 53	4°23'27	16°24	23°43	22° 9	1°48	19°13	9°25	10°38	26°14	12° 1	4° 6	2°41	5°42	n.a.	S 29
M30	4 21 50	5♐24'43	29♏33	25♏15	21♐45	2♍13	19♎24	9♊20	10♏41	26♒15	12♈ 0	4♉ 4	2♉37	5♍49	n.a.	M30

Day	☉		☽			☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl		decl	lat		decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s37		14s40	0s21		3s59	2n30	27s 7	4s 1	17n 9	1n51	4s23	1n 8	21n 8	1s18	14s21	0n18	14s 7	1s16	10s10	16s28	13n 5	13n 3	14n53		n.a.
M 2	13 58		19 37	1 31		4 20	2 29	27 8	3 58	17 0	1 52	4 28	1 8	21 8	1 18	14 22	0 18	14 7	1 16	10 10	16 27	13 5	13 2	14 50		n.a.
T 3	14 18		23 44	2 37		4 43	2 26	27 8	3 55	16 51	1 53	4 33	1 8	21 7	1 18	14 24	0 18	14 8	1 16	10 11	16 27	13 5	13 1	14 48		n.a.
W 4	14 38		26 40	3 36		5 9	2 24	27 7	3 51	16 43	1 54	4 38	1 9	21 7	1 18	14 25	0 18	14 8	1 16	10 11	16 27	13 5	13 0	14 45		n.a.
T 5	14 57		28 7	4 24		5 37	2 20	27 5	3 47	16 34	1 55	4 42	1 9	21 6	1 18	14 26	0 18	14 8	1 16	10 11	16 27	13 5	12 59	14 42		n.a.
F 6	15 17		27 52	4 58		6 7	2 16	27 3	3 42	16 25	1 56	4 47	1 9	21 6	1 18	14 27	0 18	14 8	1 16	10 11	16 27	13 5	12 58	14 39		n.a.
S 7	15 36		25 54	5 15		6 38	2 11	27 0	3 38	16 16	1 57	4 52	1 9	21 5	1 18	14 28	0 18	14 8	1 16	10 11	16 26	13 4	12 56	14 36		n.a.
S 8	15 55		22 20	5 14		7 11	2 6	26 57	3 32	16 8	1 58	4 57	1 9	21 4	1 18	14 30	0 18	14 8	1 15	10 12	16 26	13 4	12 55	14 33		n.a.
M 9	16 13		17 26	4 53		7 45	2 0	26 53	3 27	15 59	1 59	5 2	1 9	21 4	1 17	14 31	0 18	14 8	1 15	10 12	16 26	13 4	12 54	14 30		n.a.
T 10	16 31		11 33	4 15		8 19	1 54	26 49	3 21	15 50	2 1	5 7	1 9	21 3	1 17	14 32	0 18	14 8	1 15	10 12	16 26	13 5	12 53	14 27		n.a.
W11	16 49		5 3	3 20		8 54	1 48	26 44	3 15	15 41	2 2	5 11	1 9	21 3	1 17	14 33	0 18	14 8	1 15	10 12	16 26	13 5	12 52	14 25		n.a.
T 12	17 7		1n44	2 13		9 30	1 42	26 38	3 8	15 33	2 3	5 16	1 9	21 2	1 17	14 34	0 18	14 8	1 15	10 12	16 25	13 5	12 51	14 22		n.a.
F 13	17 24		8 24	0 58		10 6	1 35	26 32	3 1	15 24	2 4	5 21	1 9	21 2	1 17	14 35	0 18	14 7	1 15	10 12	16 25	13 6	12 50	14 19		n.a.
S 14	17 41		14 36	0n20		10 42	1 28	26 25	2 53	15 15	2 5	5 25	1 9	21 1	1 17	14 37	0 18	14 7	1 15	10 13	16 25	13 6	12 49	14 16		n.a.
S 15	17 58		19 58	1 35		11 18	1 21	26 17	2 45	15 7	2 6	5 30	1 9	21 0	1 17	14 38	0 18	14 7	1 15	10 13	16 25	13 5	12 48	14 13		n.a.
M16	18 15		24 9	2 44		11 54	1 14	26 9	2 36	14 58	2 7	5 35	1 9	21 0	1 17	14 39	0 18	14 7	1 15	10 13	16 25	13 5	12 47	14 10		n.a.
T 17	18 31		26 55	3 42		12 30	1 7	26 1	2 27	14 49	2 8	5 39	1 9	20 59	1 17	14 40	0 18	14 7	1 15	10 13	16 24	13 4	12 46	14 7		n.a.
W18	18 46		28 8	4 26		13 6	1 0	25 51	2 18	14 41	2 9	5 44	1 9	20 59	1 17	14 41	0 18	14 7	1 15	10 13	16 24	13 3	12 44	14 4		n.a.
T 19	19 2		27 49	4 57		13 42	0 53	25 42	2 8	14 32	2 10	5 48	1 9	20 58	1 17	14 42	0 18	14 7	1 15	10 13	16 24	13 2	12 43	14 1		n.a.
F 20	19 17		26 6	5 12		14 17	0 46	25 31	1 57	14 24	2 12	5 53	1 9	20 57	1 17	14 44	0 18	14 7	1 15	10 13	16 24	13 1	12 42	13 58		n.a.
S 21	19 32		23 13	5 13		14 52	0 38	25 20	1 46	14 15	2 13	5 57	1 10	20 57	1 17	14 45	0 18	14 7	1 15	10 13	16 23	13 0	12 41	13 55		n.a.
S 22	19 46		19 22	5 1		15 27	0 31	25 8	1 35	14 7	2 14	6 2	1 10	20 56	1 17	14 46	0 18	14 6	1 15	10 13	16 23	13 0	12 40	13 52		n.a.
M23	20 0		14 48	4 36		16 1	0 24	24 56	1 23	13 59	2 15	6 6	1 10	20 55	1 17	14 47	0 18	14 6	1 15	10 13	16 23	13 0	12 39	13 49		n.a.
T 24	20 14		9 43	3 59		16 34	0 17	24 43	1 10	13 50	2 16	6 10	1 10	20 55	1 17	14 48	0 18	14 6	1 15	10 13	16 23	13 0	12 38	13 47		n.a.
W25	20 27		4 14	3 11		17 7	0 10	24 30	0 58	13 42	2 17	6 15	1 10	20 54	1 17	14 49	0 18	14 6	1 15	10 13	16 22	13 1	12 37	13 44		n.a.
T 26	20 40		1s27	2 15		17 39	0 3	24 16	0 44	13 34	2 19	6 19	1 10	20 53	1 17	14 50	0 18	14 6	1 15	10 13	16 22	13 1	12 36	13 41		n.a.
F 27	20 52		7 12	1 11		18 11	0s 4	24 2	0 31	13 26	2 20	6 23	1 10	20 53	1 17	14 52	0 18	14 5	1 15	10 13	16 22	13 2	12 35	13 38		n.a.
S 28	21 4		12 48	0 3		18 42	0 11	23 46	0 17	13 18	2 21	6 27	1 10	20 52	1 16	14 53	0 18	14 5	1 15	10 13	16 21	13 2	12 33	13 35		n.a.
S 29	21 16		18 0	1s 7		19 12	0 18	23 31	0 2	13 10	2 22	6 32	1 10	20 51	1 16	14 54	0 18	14 5	1 15	10 13	16 21	13 2	12 32	13 32		n.a.
M30	21s27		22s28	2s15		19s41	0s24	23s15	0n12	13n 2	2n24	6s36	1n10	20n51	1s16	14s55	0n18	14s 5	1s15	10s13	16s21	13n 1	12n31	13n29		n.a.

Julian Day Number = 1678262.5, Delta T = 03h16m52s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'50, Lahiri = - 5°34'50 Julian Calendar 1 Nov. 119 BCE == Greg. Calendar 29 Oct. 119 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 119 BCE
geocentric

DECEMBER 119 BCE (-118) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 46	6♐26'01	13♐ 1	26♏48	21°R20	2♍38	19♎35	9°R15	10♏45	26♒16	11°R59	4°R 0	2♉34	5♍55	n.a.	T 1
W 2	4 29 43	7°27'18	26°46	28°21	20♐53	3° 2	19°46	9♊10	10°48	26°17	11♈59	3♉55	2°31	6° 2	n.a.	W 2
T 3	4 33 39	8°28'35	10♑43	29°54	20°23	3°26	19°57	9° 6	10°52	26°17	11°58	3°49	2°28	6° 9	n.a.	T 3
F 4	4 37 36	9°29'51	24°50	1♐28	19°52	3°50	20° 8	9° 1	10°55	26°18	11°58	3°44	2°25	6°16	n.a.	F 4
S 5	4 41 32	10°31'08	9♒ 2	3° 2	19°20	4°14	20°18	8°56	10°58	26°19	11°57	3°39	2°22	6°22	n.a.	S 5
S 6	4 45 29	11°32'23	23°15	4°36	18°46	4°37	20°29	8°51	11° 2	26°20	11°57	3°36	2°18	6°29	n.a.	S 6
M 7	4 49 26	12°33'39	7♓27	6°11	18°11	5° 0	20°40	8°46	11° 5	26°21	11°56	3°D34	2°15	6°36	n.a.	M 7
T 8	4 53 22	13°34'53	21°34	7°46	17°35	5°22	20°50	8°41	11° 8	26°22	11°56	3°35	2°12	6°42	n.a.	T 8
W 9	4 57 19	14°36'07	5♈37	9°21	16°59	5°45	21° 0	8°36	11°12	26°23	11°55	3°36	2° 9	6°49	n.a.	W 9
T 10	5 1 15	15°37'21	19°33	10°57	16°22	6° 7	21°10	8°31	11°15	26°24	11°55	3°37	2° 6	6°56	n.a.	T 10
F 11	5 5 12	16°38'34	3♉22	12°33	15°45	6°28	21°20	8°26	11°18	26°25	11°54	3°R38	2° 3	7° 2	n.a.	F 11
S 12	5 9 8	17°39'46	17° 2	14° 9	15° 8	6°49	21°30	8°21	11°21	26°26	11°54	3°37	1°59	7° 9	n.a.	S 12
S 13	5 13 5	18°40'58	0♊33	15°47	14°32	7°10	21°40	8°16	11°24	26°27	11°54	3°34	1°56	7°16	n.a.	S 13
M14	5 17 2	19°42'09	13°52	17°24	13°56	7°31	21°50	8°11	11°27	26°28	11°53	3°29	1°53	7°22	n.a.	M14
T 15	5 20 58	20°43'20	26°57	19° 2	13°22	7°51	22° 0	8° 6	11°31	26°29	11°53	3°21	1°50	7°29	n.a.	T 15
W16	5 24 55	21°44'30	9♋48	20°41	12°48	8°11	22° 9	8° 2	11°34	26°30	11°53	3°12	1°47	7°36	n.a.	W16
T 17	5 28 51	22°45'40	22°24	22°20	12°16	8°31	22°19	7°57	11°37	26°31	11°52	3° 3	1°43	7°43	n.a.	T 17
F 18	5 32 48	23°46'49	4♌46	23°59	11°45	8°50	22°28	7°52	11°40	26°33	11°52	2°53	1°40	7°49	n.a.	F 18
S 19	5 36 44	24°47'58	16°54	25°39	11°17	9° 8	22°37	7°47	11°43	26°34	11°52	2°45	1°37	7°56	n.a.	S 19
S 20	5 40 41	25°49'06	28°52	27°20	10°50	9°27	22°47	7°43	11°45	26°35	11°52	2°39	1°34	8° 3	n.a.	S 20
M21	5 44 37	26°50'14	10♍44	29° 1	10°25	9°45	22°56	7°38	11°48	26°37	11°51	2°35	1°31	8° 9	n.a.	M21
T 22	5 48 34	27°51'21	22°34	0♑42	10° 3	10° 2	23° 4	7°34	11°51	26°38	11°51	2°34	1°28	8°16	n.a.	T 22
W23	5 52 31	28°52'27	4♎27	2°24	9°42	10°19	23°13	7°29	11°54	26°39	11°51	2°D34	1°24	8°23	n.a.	W23
T 24	5 56 27	29°53'33	16°29	4° 7	9°24	10°36	23°22	7°25	11°57	26°41	11°51	2°35	1°21	8°29	n.a.	T 24
F 25	6 0 24	0♑54'38	28°44	5°50	9° 9	10°52	23°30	7°20	12° 0	26°42	11°51	2°R35	1°18	8°36	n.a.	F 25
S 26	6 4 20	1°55'43	11♏18	7°34	8°56	11° 8	23°39	7°16	12° 2	26°44	11°51	2°35	1°15	8°43	n.a.	S 26
S 27	6 8 17	2°56'47	24°15	9°18	8°45	11°23	23°47	7°12	12° 5	26°45	11°51	2°33	1°12	8°50	n.a.	S 27
M28	6 12 13	3°57'50	7♐36	11° 2	8°37	11°38	23°55	7° 8	12° 8	26°47	11°51	2°28	1° 9	8°56	n.a.	M28
T 29	6 16 10	4°58'53	21°22	12°47	8°32	11°52	24° 3	7° 4	12°10	26°48	11°D51	2°20	1° 5	9° 3	n.a.	T 29
W30	6 20 6	5°59'54	5♑30	14°32	8°29	12° 6	24°11	7° 0	12°13	26°50	11°51	2°11	1° 2	9°10	n.a.	W30
T 31	6 24 3	7♑ 0'55	19♑56	16♑17	8°D28	12♍19	24♎19	6♊56	12♏15	26♒51	11♈51	2♉ 0	0♉59	9♍16	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21s38	25s52	3s16	20s10	0s31	22s58	0n27	12n54	2n25	6s40	1n10	20n50	1s16	14s56	0n18	14s 4	1s15	10s13	16s21	13n 0	12n30	13n26		n.a.
W 2	21 48	27 48	4 8	20 37	0 37	22 41	0 43	12 46	2 26	6 44	1 10	20 49	1 16	14 57	0 18	14 4	1 15	10 13	16 20	12 58	12 29	13 23		n.a.
T 3	21 58	28 1	4 46	21 4	0 43	22 24	0 58	12 39	2 27	6 48	1 11	20 49	1 16	14 58	0 18	14 4	1 15	10 13	16 20	12 56	12 28	13 20		n.a.
F 4	22 8	26 26	5 7	21 30	0 49	22 6	1 14	12 31	2 29	6 52	1 11	20 48	1 16	14 59	0 18	14 4	1 15	10 13	16 20	12 54	12 27	13 17		n.a.
S 5	22 17	23 10	5 9	21 54	0 55	21 48	1 29	12 24	2 30	6 56	1 11	20 47	1 16	15 0	0 18	14 3	1 15	10 13	16 19	12 53	12 26	13 14		n.a.
S 6	22 25	18 31	4 53	22 18	1 1	21 29	1 45	12 16	2 31	7 0	1 11	20 47	1 16	15 1	0 18	14 3	1 15	10 13	16 19	12 51	12 25	13 11		n.a.
M 7	22 34	12 51	4 18	22 41	1 7	21 11	2 0	12 9	2 33	7 4	1 11	20 46	1 16	15 2	0 18	14 3	1 15	10 13	16 19	12 51	12 24	13 8		n.a.
T 8	22 41	6 34	3 28	23 2	1 12	20 52	2 16	12 2	2 34	7 8	1 11	20 46	1 15	15 3	0 18	14 2	1 14	10 13	16 18	12 51	12 22	13 5		n.a.
W 9	22 49	0n 1	2 26	23 23	1 17	20 34	2 31	11 55	2 35	7 11	1 11	20 45	1 15	15 4	0 18	14 2	1 14	10 13	16 18	12 51	12 21	13 2		n.a.
T 10	22 56	6 34	1 16	23 42	1 22	20 15	2 46	11 48	2 37	7 15	1 11	20 44	1 15	15 5	0 18	14 1	1 14	10 13	16 18	12 52	12 20	12 59		n.a.
F 11	23 2	12 45	0 1	24 0	1 27	19 57	3 1	11 41	2 38	7 19	1 11	20 44	1 15	15 6	0 18	14 1	1 14	10 12	16 17	12 52	12 19	12 56		n.a.
S 12	23 8	18 16	1n12	24 16	1 32	19 39	3 15	11 34	2 39	7 22	1 12	20 43	1 15	15 7	0 18	14 1	1 14	10 12	16 17	12 52	12 18	12 53		n.a.
S 13	23 13	22 47	2 20	24 32	1 36	19 21	3 29	11 27	2 41	7 26	1 12	20 42	1 15	15 8	0 18	14 0	1 14	10 12	16 17	12 51	12 17	12 50		n.a.
M14	23 18	26 2	3 20	24 46	1 40	19 4	3 42	11 21	2 42	7 30	1 12	20 42	1 15	15 9	0 18	14 0	1 14	10 12	16 16	12 49	12 16	12 47		n.a.
T 15	23 23	27 48	4 7	24 58	1 44	18 47	3 55	11 15	2 44	7 33	1 12	20 41	1 15	15 10	0 18	13 59	1 14	10 12	16 16	12 46	12 15	12 44		n.a.
W16	23 27	28 1	4 41	25 10	1 47	18 31	4 7	11 8	2 45	7 37	1 12	20 40	1 14	15 11	0 18	13 59	1 14	10 12	16 16	12 43	12 14	12 41		n.a.
T 17	23 31	26 46	5 1	25 19	1 50	18 15	4 18	11 2	2 46	7 40	1 12	20 40	1 14	15 12	0 18	13 59	1 14	10 11	16 15	12 40	12 12	12 38		n.a.
F 18	23 34	24 14	5 6	25 27	1 53	18 0	4 29	10 56	2 48	7 43	1 12	20 39	1 14	15 13	0 18	13 58	1 14	10 11	16 15	12 37	12 11	12 35		n.a.
S 19	23 36	20 39	4 57	25 34	1 56	17 46	4 40	10 50	2 49	7 47	1 12	20 38	1 14	15 14	0 18	13 58	1 14	10 11	16 15	12 34	12 10	12 32		n.a.
S 20	23 39	16 17	4 35	25 39	1 58	17 33	4 49	10 45	2 51	7 50	1 13	20 38	1 14	15 15	0 18	13 57	1 14	10 11	16 14	12 32	12 9	12 29		n.a.
M21	23 40	11 20	4 1	25 42	2 0	17 21	4 58	10 39	2 52	7 53	1 13	20 37	1 14	15 16	0 18	13 57	1 14	10 10	16 14	12 31	12 8	12 26		n.a.
T 22	23 42	6 0	3 18	25 44	2 1	17 10	5 6	10 34	2 54	7 57	1 13	20 37	1 14	15 17	0 18	13 56	1 14	10 10	16 14	12 30	12 7	12 23		n.a.
W23	23 42	0 25	2 25	25 43	2 2	16 59	5 14	10 29	2 55	8 0	1 13	20 36	1 13	15 18	0 18	13 56	1 14	10 10	16 13	12 30	12 6	12 20		n.a.
T 24	23 43	5s14	1 25	25 41	2 3	16 50	5 21	10 24	2 57	8 3	1 13	20 36	1 13	15 18	0 18	13 55	1 14	10 10	16 13	12 30	12 5	12 17		n.a.
F 25	23 42	10 50	0 21	25 38	2 3	16 42	5 27	10 19	2 58	8 6	1 13	20 35	1 13	15 19	0 18	13 55	1 14	10 9	16 13	12 31	12 4	12 13		n.a.
S 26	23 42	16 8	0s46	25 32	2 3	16 34	5 32	10 14	3 0	8 9	1 13	20 34	1 13	15 20	0 18	13 54	1 14	10 9	16 12	12 30	12 2	12 10		n.a.
S 27	23 41	20 52	1 53	25 24	2 2	16 28	5 37	10 10	3 1	8 12	1 14	20 34	1 13	15 21	0 18	13 54	1 14	10 9	16 12	12 30	12 1	12 7		n.a.
M28	23 39	24 42	2 55	25 15	2 1	16 22	5 41	10 5	3 3	8 15	1 14	20 33	1 13	15 22	0 18	13 53	1 14	10 8	16 12	12 28	12 0	12 4		n.a.
T 29	23 37	27 14	3 49	25 4	1 59	16 18	5 45	10 1	3 4	8 17	1 14	20 33	1 12	15 23	0 18	13 52	1 14	10 8	16 11	12 25	11 59	12 1		n.a.
W30	23 34	28 6	4 31	24 50	1 56	16 14	5 48	9 57	3 6	8 20	1 14	20 32	1 12	15 23	0 18	13 52	1 14	10 8	16 11	12 22	11 58	11 58		n.a.
T 31	23s31	27s 5	4s56	24s35	1s53	16s12	5n50	9n54	3n 7	8s23	1n14	20n32	1s12	15s24	0n18	13s51	1s14	10s 7	16s11	12n18	11n57	11n55		n.a.

Julian Day Number = 1678292.5, Delta T = 03h16m51s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'46, Lahiri = - 5°34'46 Julian Calendar 1 Dec. 119 BCE == Greg. Calendar 28 Nov. 119 BCE

The year -118 astronomical counting style corresponds to year 119 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

JANUARY 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 28 0	8♑ 1'54	4♒33	18♑ 3	8♐30	12♍32	24♎27	6°R52	12♏18	26♒53	11♈51	1°R50	0♉56	9♍23	n.a.	F 1
S 2	6 31 56	9° 2'52	19°13	19°48	8°34	12°44	24°34	6♊48	12°20	26°55	11°51	1♉40	0°53	9°30	n.a.	S 2
S 3	6 35 53	10° 3'48	3♓49	21°33	8°41	12°55	24°41	6°44	12°23	26°56	11°51	1°33	0°49	9°36	n.a.	S 3
M 4	6 39 49	11° 4'43	18°15	23°17	8°50	13° 7	24°49	6°40	12°25	26°58	11°51	1°28	0°46	9°43	n.a.	M 4
T 5	6 43 46	12° 5'36	2♈28	25° 1	9° 1	13°17	24°56	6°37	12°27	27° 0	11°51	1°26	0°43	9°50	n.a.	T 5
W 6	6 47 42	13° 6'27	16°27	26°43	9°14	13°27	25° 3	6°33	12°30	27° 1	11°51	1°D26	0°40	9°57	n.a.	W 6
T 7	6 51 39	14° 7'17	0♉11	28°25	9°29	13°36	25° 9	6°30	12°32	27° 3	11°51	1°R26	0°37	10° 3	n.a.	T 7
F 8	6 55 36	15° 8'06	13°41	0♒ 5	9°47	13°45	25°16	6°27	12°34	27° 5	11°52	1°26	0°34	10°10	n.a.	F 8
S 9	6 59 32	16° 8'52	26°59	1°42	10° 6	13°53	25°23	6°23	12°36	27° 7	11°52	1°23	0°30	10°17	n.a.	S 9
S 10	7 3 29	17° 9'38	10♊ 5	3°17	10°27	14° 1	25°29	6°20	12°38	27° 9	11°52	1°18	0°27	10°23	n.a.	S 10
M11	7 7 25	18°10'21	23° 1	4°49	10°50	14° 8	25°35	6°17	12°40	27°10	11°52	1°10	0°24	10°30	n.a.	M11
T 12	7 11 22	19°11'03	5♋46	6°18	11°15	14°14	25°41	6°14	12°42	27°12	11°53	0°59	0°21	10°37	n.a.	T 12
W13	7 15 18	20°11'43	18°21	7°42	11°42	14°20	25°47	6°11	12°44	27°14	11°53	0°46	0°18	10°43	n.a.	W13
T 14	7 19 15	21°12'22	0♌45	9° 1	12°10	14°25	25°53	6° 9	12°46	27°16	11°53	0°31	0°15	10°50	n.a.	T 14
F 15	7 23 11	22°12'59	12°58	10°14	12°40	14°29	25°58	6° 6	12°48	27°18	11°54	0°17	0°11	10°57	n.a.	F 15
S 16	7 27 8	23°13'35	25° 1	11°21	13°11	14°33	26° 4	6° 3	12°50	27°20	11°54	0° 5	0° 8	11° 3	n.a.	S 16
S 17	7 31 5	24°14'09	6♍57	12°21	13°44	14°35	26° 9	6° 1	12°52	27°22	11°54	29♈55	0° 5	11°10	n.a.	S 17
M18	7 35 1	25°14'42	18°47	13°13	14°18	14°38	26°14	5°58	12°53	27°24	11°55	29°47	0° 2	11°17	n.a.	M18
T 19	7 38 58	26°15'13	0♎35	13°57	14°54	14°39	26°19	5°56	12°55	27°26	11°55	29°43	29♈59	11°24	n.a.	T 19
W20	7 42 54	27°15'43	12°27	14°32	15°31	14°40	26°24	5°54	12°57	27°28	11°56	29°40	29°55	11°30	n.a.	W20
T 21	7 46 51	28°16'11	24°26	14°57	16° 9	14°R40	26°28	5°52	12°58	27°30	11°56	29°40	29°52	11°37	n.a.	T 21
F 22	7 50 47	29°16'38	6♏38	15°12	16°48	14°39	26°33	5°50	13° 0	27°32	11°57	29°40	29°49	11°44	n.a.	F 22
S 23	7 54 44	0♒17'04	19° 9	15°R17	17°29	14°38	26°37	5°48	13° 1	27°34	11°57	29°39	29°46	11°50	n.a.	S 23
S 24	7 58 40	1°17'28	2♐ 4	15°12	18°11	14°36	26°41	5°46	13° 3	27°36	11°58	29°37	29°43	11°57	n.a.	S 24
M25	8 2 37	2°17'51	15°26	14°58	18°54	14°33	26°45	5°45	13° 4	27°38	11°58	29°31	29°40	12° 4	n.a.	M25
T 26	8 6 34	3°18'12	29°17	14°33	19°37	14°29	26°49	5°43	13° 5	27°40	11°59	29°24	29°36	12°10	n.a.	T 26
W27	8 10 30	4°18'31	13♑36	14° 0	20°22	14°24	26°52	5°42	13° 7	27°42	11°59	29°13	29°33	12°17	n.a.	W27
T 28	8 14 27	5°18'49	28°18	13°19	21° 8	14°19	26°56	5°40	13° 8	27°45	12° 0	29° 2	29°30	12°24	n.a.	T 28
F 29	8 18 23	6°19'04	13♒16	12°30	21°55	14°13	26°59	5°39	13° 9	27°47	12° 1	28°50	29°27	12°30	n.a.	F 29
S 30	8 22 20	7°19'18	28°21	11°36	22°42	14° 6	27° 2	5°38	13°10	27°49	12° 1	28°39	29°24	12°37	n.a.	S 30
S 31	8 26 16	8♒19'30	13♓21	10♒38	23♐30	13♍58	27♎ 5	5♊37	13♏11	27♒51	12♈ 2	28♈31	29♈21	12♍44	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s28	24s13	5s 2	24s18	1s50	16s10	5n52	9n50	3n 9	8s26	1n14	20n31	1s12	15s25	0n18	13s51	1s14	10s 7	16s10	12n15	11n56	11n52		n.a.
S 2	23 24	19 47	4 49	23 58	1 46	16 9	5 54	9 47	3 11	8 28	1 15	20 31	1 12	15 26	0 18	13 50	1 14	10 7	16 10	12 11	11 55	11 49		n.a.
S 3	23 19	14 11	4 16	23 37	1 41	16 9	5 55	9 44	3 12	8 31	1 15	20 30	1 11	15 26	0 18	13 50	1 14	10 6	16 9	12 9	11 53	11 46		n.a.
M 4	23 15	7 53	3 28	23 14	1 35	16 10	5 56	9 41	3 14	8 33	1 15	20 30	1 11	15 27	0 18	13 49	1 14	10 6	16 9	12 7	11 52	11 43		n.a.
T 5	23 9	1 15	2 27	22 49	1 29	16 12	5 56	9 39	3 15	8 36	1 15	20 30	1 11	15 28	0 18	13 48	1 14	10 6	16 9	12 6	11 51	11 40		n.a.
W 6	23 3	5n20	1 19	22 23	1 21	16 14	5 55	9 36	3 17	8 38	1 15	20 29	1 11	15 29	0 18	13 48	1 14	10 5	16 8	12 6	11 50	11 37		n.a.
T 7	22 57	11 33	0 7	21 55	1 14	16 17	5 55	9 34	3 19	8 41	1 15	20 29	1 11	15 29	0 18	13 47	1 14	10 5	16 8	12 6	11 49	11 34		n.a.
F 8	22 50	17 9	1n 4	21 25	1 5	16 20	5 54	9 32	3 20	8 43	1 16	20 28	1 11	15 30	0 18	13 46	1 14	10 5	16 8	12 6	11 48	11 30		n.a.
S 9	22 43	21 49	2 11	20 54	0 55	16 24	5 52	9 30	3 22	8 45	1 16	20 28	1 10	15 31	0 18	13 46	1 14	10 4	16 7	12 5	11 47	11 27		n.a.
S 10	22 36	25 20	3 9	20 22	0 45	16 29	5 51	9 29	3 23	8 47	1 16	20 28	1 10	15 31	0 18	13 45	1 14	10 4	16 7	12 4	11 46	11 24		n.a.
M11	22 28	27 28	3 57	19 49	0 34	16 34	5 49	9 28	3 25	8 49	1 16	20 27	1 10	15 32	0 18	13 44	1 14	10 3	16 7	12 1	11 45	11 21		n.a.
T 12	22 19	28 7	4 32	19 16	0 22	16 40	5 46	9 27	3 27	8 51	1 16	20 27	1 10	15 32	0 18	13 44	1 14	10 3	16 6	11 57	11 43	11 18		n.a.
W13	22 10	27 16	4 53	18 42	0 9	16 46	5 44	9 26	3 28	8 53	1 16	20 27	1 10	15 33	0 18	13 43	1 14	10 2	16 6	11 52	11 42	11 15		n.a.
T 14	22 1	25 5	5 0	18 8	0n 5	16 52	5 41	9 25	3 30	8 55	1 17	20 26	1 9	15 34	0 18	13 42	1 14	10 2	16 6	11 47	11 41	11 12		n.a.
F 15	21 51	21 47	4 53	17 34	0 19	16 59	5 38	9 25	3 32	8 57	1 17	20 26	1 9	15 34	0 18	13 42	1 14	10 1	16 5	11 42	11 40	11 9		n.a.
S 16	21 41	17 36	4 32	17 1	0 34	17 6	5 35	9 25	3 33	8 59	1 17	20 26	1 9	15 35	0 18	13 41	1 14	10 1	16 5	11 38	11 39	11 6		n.a.
S 17	21 31	12 46	4 0	16 30	0 50	17 14	5 31	9 26	3 35	9 1	1 17	20 26	1 9	15 35	0 18	13 40	1 14	10 1	16 5	11 34	11 38	11 2		n.a.
M18	21 20	7 31	3 18	16 0	1 6	17 21	5 27	9 26	3 36	9 2	1 17	20 25	1 9	15 36	0 18	13 40	1 14	10 0	16 4	11 31	11 37	10 59		n.a.
T 19	21 8	2 1	2 27	15 31	1 22	17 29	5 24	9 27	3 38	9 4	1 17	20 25	1 8	15 36	0 18	13 39	1 13	10 0	16 4	11 30	11 35	10 56		n.a.
W20	20 57	3s36	1 30	15 6	1 38	17 37	5 20	9 28	3 39	9 6	1 18	20 25	1 8	15 37	0 18	13 38	1 13	9 59	16 3	11 29	11 34	10 53		n.a.
T 21	20 45	9 9	0 28	14 43	1 55	17 45	5 15	9 30	3 41	9 7	1 18	20 25	1 8	15 37	0 18	13 38	1 13	9 59	16 3	11 29	11 33	10 50		n.a.
F 22	20 32	14 28	0s37	14 23	2 11	17 53	5 11	9 31	3 43	9 9	1 18	20 25	1 8	15 38	0 18	13 37	1 13	9 58	16 3	11 29	11 32	10 47		n.a.
S 23	20 19	19 20	1 41	14 6	2 27	18 2	5 6	9 33	3 44	9 10	1 18	20 25	1 8	15 38	0 18	13 36	1 13	9 58	16 2	11 29	11 31	10 44		n.a.
S 24	20 6	23 27	2 42	13 53	2 42	18 10	5 2	9 36	3 46	9 11	1 18	20 24	1 7	15 39	0 18	13 35	1 13	9 57	16 2	11 28	11 30	10 40		n.a.
M25	19 52	26 30	3 37	13 44	2 56	18 18	4 57	9 38	3 47	9 12	1 19	20 24	1 7	15 39	0 18	13 35	1 13	9 57	16 2	11 26	11 29	10 37		n.a.
T 26	19 38	28 3	4 20	13 38	3 9	18 27	4 52	9 41	3 48	9 14	1 19	20 24	1 7	15 39	0 18	13 34	1 13	9 56	16 1	11 23	11 28	10 34		n.a.
W27	19 24	27 48	4 49	13 37	3 20	18 35	4 47	9 44	3 50	9 15	1 19	20 24	1 7	15 40	0 18	13 33	1 13	9 56	16 1	11 19	11 26	10 31		n.a.
T 28	19 9	25 38	5 0	13 39	3 30	18 43	4 42	9 47	3 51	9 16	1 19	20 24	1 7	15 40	0 18	13 32	1 13	9 55	16 1	11 15	11 25	10 28		n.a.
F 29	18 54	21 40	4 51	13 45	3 39	18 51	4 37	9 51	3 53	9 17	1 19	20 24	1 6	15 41	0 18	13 32	1 13	9 54	16 1	11 11	11 24	10 25		n.a.
S 30	18 39	16 15	4 21	13 54	3 45	18 59	4 32	9 55	3 54	9 18	1 19	20 24	1 6	15 41	0 18	13 31	1 13	9 54	16 0	11 7	11 23	10 22		n.a.
S 31	18s23	9s54	3s34	14s 6	3n49	19s 7	4n26	9n59	3n55	9s19	1n20	20n24	1s 6	15s41	0n18	13s30	1s13	9s53	16s 0	11n 4	11n22	10n18		n.a.

Julian Day Number = 1678323.5, Delta T = 03h16m50s
Ecliptic obliquity = 23°42'41, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'42, Lahiri = - 5°34'42 Julian Calendar 1 Jan. 118 BCE == Greg. Calendar 29 Dec. 119 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

FEBRUARY 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 30 13	9♒19'39	28♓10	9°R37	24♐19	13°R50	27♎ 7	5°R36	13♏12	27♒53	12♈ 3	28°R25	29♈17	12♍50	n.a.	M 1
T 2	8 34 9	10°19'46	12♈39	8♒34	25° 9	13♍41	27°10	5♊35	13°13	27°55	12° 3	28♈23	29°14	12°57	n.a.	T 2
W 3	8 38 6	11°19'51	26°48	7°32	26° 0	13°31	27°12	5°35	13°14	27°58	12° 4	28°D22	29°11	13° 4	n.a.	W 3
T 4	8 42 3	12°19'54	10♉34	6°31	26°51	13°20	27°14	5°34	13°15	28° 0	12° 5	28°R22	29° 8	13°11	n.a.	T 4
F 5	8 45 59	13°19'55	24° 0	5°33	27°43	13° 8	27°16	5°34	13°16	28° 2	12° 6	28°22	29° 5	13°17	n.a.	F 5
S 6	8 49 56	14°19'53	7♊ 7	4°39	28°36	12°56	27°18	5°33	13°17	28° 4	12° 6	28°20	29° 1	13°24	n.a.	S 6
S 7	8 53 52	15°19'49	20° 0	3°50	29°29	12°43	27°19	5°33	13°17	28° 6	12° 7	28°15	28°58	13°31	n.a.	S 7
M 8	8 57 49	16°19'43	2♋39	3° 6	0♑23	12°29	27°21	5°D33	13°18	28° 9	12° 8	28° 8	28°55	13°37	n.a.	M 8
T 9	9 1 45	17°19'34	15° 7	2°28	1°17	12°15	27°22	5°33	13°18	28°11	12° 9	27°58	28°52	13°44	n.a.	T 9
W10	9 5 42	18°19'23	27°25	1°57	2°12	12° 0	27°23	5°33	13°19	28°13	12°10	27°46	28°49	13°51	n.a.	W10
T 11	9 9 38	19°19'10	9♌35	1°32	3° 8	11°44	27°24	5°33	13°20	28°15	12°11	27°33	28°46	13°57	n.a.	T 11
F 12	9 13 35	20°18'55	21°38	1°13	4° 4	11°27	27°24	5°34	13°20	28°18	12°12	27°20	28°42	14° 4	n.a.	F 12
S 13	9 17 32	21°18'38	3♍35	1° 2	5° 0	11°10	27°25	5°34	13°20	28°20	12°12	27° 8	28°39	14°11	n.a.	S 13
S 14	9 21 28	22°18'19	15°27	0°D56	5°57	10°52	27°25	5°35	13°21	28°22	12°13	26°59	28°36	14°17	n.a.	S 14
M15	9 25 25	23°17'58	27°16	0°57	6°55	10°34	27°R25	5°36	13°21	28°24	12°14	26°52	28°33	14°24	n.a.	M15
T 16	9 29 21	24°17'34	9♎ 4	1° 3	7°53	10°15	27°25	5°36	13°21	28°27	12°15	26°48	28°30	14°31	n.a.	T 16
W17	9 33 18	25°17'09	20°56	1°15	8°51	9°56	27°25	5°37	13°21	28°29	12°16	26°46	28°27	14°37	n.a.	W17
T 18	9 37 14	26°16'42	2♏55	1°33	9°50	9°36	27°24	5°38	13°21	28°31	12°17	26°D46	28°23	14°44	n.a.	T 18
F 19	9 41 11	27°16'13	15° 6	1°55	10°49	9°15	27°23	5°39	13°21	28°33	12°18	26°47	28°20	14°51	n.a.	F 19
S 20	9 45 7	28°15'43	27°35	2°23	11°49	8°54	27°22	5°41	13°R21	28°36	12°19	26°R47	28°17	14°57	n.a.	S 20
S 21	9 49 4	29°15'10	10♐25	2°55	12°49	8°33	27°21	5°42	13°21	28°38	12°20	26°47	28°14	15° 4	n.a.	S 21
M22	9 53 0	0♓14'36	23°41	3°31	13°49	8°11	27°20	5°44	13°21	28°40	12°21	26°44	28°11	15°11	n.a.	M22
T 23	9 56 57	1°14'00	7♑27	4°11	14°50	7°49	27°19	5°45	13°21	28°43	12°22	26°40	28° 7	15°18	n.a.	T 23
W24	10 0 54	2°13'22	21°42	4°55	15°51	7°27	27°17	5°47	13°21	28°45	12°23	26°33	28° 4	15°24	n.a.	W24
T 25	10 4 50	3°12'42	6♒24	5°43	16°52	7° 4	27°15	5°49	13°21	28°47	12°25	26°25	28° 1	15°31	n.a.	T 25
F 26	10 8 47	4°12'00	21°26	6°33	17°54	6°41	27°13	5°51	13°20	28°49	12°26	26°17	27°58	15°38	n.a.	F 26
S 27	10 12 43	5°11'15	6♓41	7°27	18°56	6°18	27°11	5°53	13°20	28°52	12°27	26° 9	27°55	15°44	n.a.	S 27
S 28	10 16 40	6♓10'29	21♓55	8♒24	19♑58	5♍55	27♎ 9	5♊55	13♏20	28♒54	12♈28	26♈ 3	27♈52	15♍51	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s 7	3s 4	2s32	14s21	3n51	19s14	4n21	10n 4	3n57	9s19	1n20	20n24	1s 6	15s41	0n18	13s29	1s13	9s53	16s 0	11n 2	11n21	10n15		n.a.
T 2	17 51	3n48	1 22	14 37	3 50	19 22	4 16	10 8	3 58	9 20	1 20	20 24	1 5	15 42	0 18	13 29	1 13	9 52	15 59	11 1	11 20	10 12		n.a.
W 3	17 35	10 19	0 8	14 55	3 48	19 29	4 10	10 13	3 59	9 21	1 20	20 25	1 5	15 42	0 18	13 28	1 13	9 52	15 59	11 1	11 18	10 9		n.a.
T 4	17 18	16 10	1n 4	15 15	3 43	19 36	4 5	10 18	4 0	9 21	1 20	20 25	1 5	15 42	0 18	13 27	1 13	9 51	15 59	11 1	11 17	10 6		n.a.
F 5	17 0	21 6	2 11	15 35	3 37	19 43	3 59	10 24	4 1	9 22	1 21	20 25	1 5	15 42	0 18	13 26	1 13	9 51	15 58	11 1	11 16	10 3		n.a.
S 6	16 43	24 52	3 10	15 56	3 29	19 49	3 53	10 30	4 2	9 22	1 21	20 25	1 5	15 43	0 18	13 26	1 13	9 50	15 58	11 0	11 15	9 59		n.a.
S 7	16 25	27 17	3 58	16 17	3 20	19 55	3 48	10 36	4 3	9 23	1 21	20 25	1 4	15 43	0 18	13 25	1 13	9 49	15 58	10 58	11 14	9 56		n.a.
M 8	16 7	28 14	4 33	16 37	3 9	20 1	3 42	10 42	4 4	9 23	1 21	20 25	1 4	15 43	0 18	13 24	1 13	9 49	15 57	10 56	11 13	9 53		n.a.
T 9	15 49	27 43	4 54	16 57	2 57	20 6	3 36	10 48	4 5	9 23	1 21	20 25	1 4	15 43	0 18	13 23	1 13	9 48	15 57	10 52	11 12	9 50		n.a.
W10	15 31	25 50	5 1	17 16	2 45	20 11	3 30	10 55	4 5	9 23	1 22	20 26	1 4	15 43	0 18	13 22	1 13	9 48	15 57	10 48	11 11	9 47		n.a.
T 11	15 12	22 47	4 55	17 35	2 32	20 16	3 24	11 1	4 6	9 24	1 22	20 26	1 4	15 44	0 18	13 22	1 13	9 47	15 57	10 43	11 9	9 43		n.a.
F 12	14 53	18 47	4 35	17 52	2 18	20 20	3 19	11 8	4 7	9 24	1 22	20 26	1 3	15 44	0 18	13 21	1 13	9 46	15 56	10 38	11 8	9 40		n.a.
S 13	14 34	14 5	4 4	18 8	2 4	20 24	3 13	11 16	4 7	9 24	1 22	20 27	1 3	15 44	0 18	13 20	1 13	9 46	15 56	10 34	11 7	9 37		n.a.
S 14	14 14	8 53	3 21	18 23	1 50	20 28	3 7	11 23	4 8	9 24	1 22	20 27	1 3	15 44	0 18	13 19	1 13	9 45	15 56	10 31	11 6	9 34		n.a.
M15	13 54	3 24	2 31	18 36	1 36	20 31	3 1	11 30	4 8	9 23	1 22	20 27	1 3	15 44	0 18	13 18	1 13	9 45	15 55	10 28	11 5	9 31		n.a.
T 16	13 34	2s13	1 33	18 49	1 23	20 34	2 55	11 38	4 8	9 23	1 23	20 28	1 2	15 44	0 18	13 18	1 13	9 44	15 55	10 27	11 4	9 27		n.a.
W17	13 14	7 47	0 31	18 59	1 9	20 36	2 49	11 45	4 8	9 23	1 23	20 28	1 2	15 44	0 18	13 17	1 13	9 43	15 55	10 26	11 3	9 24		n.a.
T 18	12 54	13 8	0s33	19 9	0 55	20 38	2 43	11 53	4 9	9 23	1 23	20 28	1 2	15 44	0 18	13 16	1 13	9 43	15 55	10 26	11 1	9 21		n.a.
F 19	12 33	18 5	1 37	19 16	0 42	20 39	2 38	12 1	4 9	9 22	1 23	20 29	1 2	15 44	0 18	13 15	1 13	9 42	15 54	10 26	11 0	9 18		n.a.
S 20	12 13	22 24	2 37	19 23	0 29	20 40	2 32	12 9	4 8	9 22	1 23	20 29	1 2	15 44	0 18	13 14	1 13	9 42	15 54	10 27	10 59	9 15		n.a.
S 21	11 52	25 45	3 32	19 28	0 17	20 40	2 26	12 17	4 8	9 21	1 24	20 30	1 1	15 44	0 18	13 14	1 13	9 41	15 54	10 26	10 58	9 11		n.a.
M22	11 31	27 50	4 17	19 31	0 4	20 40	2 20	12 25	4 8	9 20	1 24	20 30	1 1	15 44	0 18	13 13	1 13	9 40	15 54	10 25	10 57	9 8		n.a.
T 23	11 10	28 19	4 49	19 33	0s 7	20 39	2 14	12 33	4 8	9 20	1 24	20 31	1 1	15 44	0 18	13 12	1 13	9 40	15 53	10 24	10 56	9 5		n.a.
W24	10 48	26 57	5 5	19 33	0 19	20 38	2 9	12 41	4 7	9 19	1 24	20 31	1 1	15 44	0 18	13 11	1 13	9 39	15 53	10 21	10 54	9 2		n.a.
T 25	10 27	23 45	5 1	19 32	0 29	20 36	2 3	12 49	4 6	9 18	1 24	20 32	1 1	15 44	0 18	13 10	1 13	9 38	15 53	10 18	10 53	8 58		n.a.
F 26	10 5	18 53	4 37	19 29	0 40	20 34	1 57	12 57	4 6	9 17	1 24	20 32	1 0	15 44	0 18	13 10	1 13	9 38	15 53	10 15	10 52	8 55		n.a.
S 27	9 43	12 46	3 53	19 25	0 50	20 31	1 51	13 5	4 5	9 16	1 25	20 33	1 0	15 44	0 18	13 9	1 13	9 37	15 53	10 13	10 51	8 52		n.a.
S 28	9s21	5s53	2s53	19s19	0s59	20s28	1n46	13n13	4n 4	9s15	1n25	20n33	1s 0	15s43	0n18	13s 8	1s13	9s37	15s52	10n10	10n50	8n49		n.a.

Julian Day Number = 1678354.5, Delta T = 03h16m49s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'38, Lahiri = - 5°34'37 Julian Calendar 1 Feb. 118 BCE == Greg. Calendar 29 Jan. 118 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

MARCH 118 BCE (-117) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 20 36	7♓ 9'40	7♈ 1	9♒24	21♉ 0	5°R32	27°R 6	5♊57	13°R19	28♒56	12♈29	26°R 0	27♈48	15♍58	n.a.	M 1
T 2	10 24 33	8° 8'49	21°48	10°27	22° 3	5♍ 9	27♎ 3	5°59	13♏19	28°58	12°30	25°D58	27°45	16° 4	n.a.	T 2
W 3	10 28 29	9° 7'56	6♉12	11°32	23° 6	4°45	27° 1	6° 2	13°18	29° 1	12°31	25♈58	27°42	16°11	n.a.	W 3
T 4	10 32 26	10° 7'01	20°10	12°39	24° 9	4°22	26°57	6° 4	13°17	29° 3	12°33	26° 0	27°39	16°18	n.a.	T 4
F 5	10 36 23	11° 6'03	3♊42	13°49	25°13	3°59	26°54	6° 7	13°17	29° 5	12°34	26° 1	27°36	16°24	n.a.	F 5
S 6	10 40 19	12° 5'02	16°51	15° 1	26°16	3°37	26°51	6°10	13°16	29° 7	12°35	26°R 1	27°33	16°31	n.a.	S 6
S 7	10 44 16	13° 3'59	29°40	16°15	27°20	3°14	26°47	6°12	13°15	29°10	12°36	25°59	27°29	16°38	n.a.	S 7
M 8	10 48 12	14° 2'54	12♋12	17°31	28°24	2°52	26°43	6°15	13°14	29°12	12°37	25°56	27°26	16°44	n.a.	M 8
T 9	10 52 9	15° 1'47	24°30	18°49	29°29	2°29	26°39	6°18	13°13	29°14	12°39	25°51	27°23	16°51	n.a.	T 9
W10	10 56 5	16° 0'37	6♌38	20° 9	0♒33	2° 8	26°35	6°22	13°13	29°16	12°40	25°44	27°20	16°58	n.a.	W10
T 11	11 0 2	16°59'25	18°38	21°31	1°38	1°46	26°31	6°25	13°12	29°18	12°41	25°37	27°17	17° 4	n.a.	T 11
F 12	11 3 58	17°58'10	0♍33	22°55	2°43	1°25	26°27	6°28	13°11	29°21	12°42	25°30	27°13	17°11	n.a.	F 12
S 13	11 7 55	18°56'54	12°24	24°20	3°48	1° 5	26°22	6°32	13°10	29°23	12°44	25°24	27°10	17°18	n.a.	S 13
S 14	11 11 52	19°55'35	24°14	25°48	4°54	0°45	26°17	6°35	13° 8	29°25	12°45	25°18	27° 7	17°24	n.a.	S 14
M15	11 15 48	20°54'14	6♎ 4	27°17	5°59	0°25	26°12	6°39	13° 7	29°27	12°46	25°15	27° 4	17°31	n.a.	M15
T 16	11 19 45	21°52'51	17°56	28°47	7° 5	0° 6	26° 7	6°43	13° 6	29°29	12°47	25°13	27° 1	17°38	n.a.	T 16
W17	11 23 41	22°51'27	29°53	0♓20	8°11	29♌48	26° 2	6°46	13° 5	29°31	12°49	25°D13	26°58	17°44	n.a.	W17
T 18	11 27 38	23°50'00	11♏58	1°54	9°17	29°30	25°57	6°50	13° 4	29°33	12°50	25°14	26°54	17°51	n.a.	T 18
F 19	11 31 34	24°48'32	24°13	3°30	10°23	29°13	25°51	6°54	13° 2	29°36	12°51	25°16	26°51	17°58	n.a.	F 19
S 20	11 35 31	25°47'02	6♐44	5° 7	11°29	28°56	25°46	6°58	13° 1	29°38	12°53	25°17	26°48	18° 4	n.a.	S 20
S 21	11 39 27	26°45'30	19°34	6°46	12°36	28°40	25°40	7° 2	12°59	29°40	12°54	25°18	26°45	18°11	n.a.	S 21
M22	11 43 24	27°43'57	2♑47	8°27	13°43	28°25	25°34	7° 7	12°58	29°42	12°55	25°R18	26°42	18°18	n.a.	M22
T 23	11 47 20	28°42'22	16°24	10° 9	14°49	28°10	25°28	7°11	12°56	29°44	12°57	25°17	26°38	18°25	n.a.	T 23
W24	11 51 17	29°40'45	0♒28	11°53	15°56	27°57	25°22	7°16	12°55	29°46	12°58	25°15	26°35	18°31	n.a.	W24
T 25	11 55 14	0♈39'07	14°58	13°39	17° 3	27°44	25°16	7°20	12°53	29°48	12°59	25°12	26°32	18°38	n.a.	T 25
F 26	11 59 10	1°37'27	29°49	15°27	18°11	27°31	25°10	7°25	12°52	29°50	13° 1	25° 9	26°29	18°45	n.a.	F 26
S 27	12 3 7	2°35'45	14♓55	17°16	19°18	27°20	25° 3	7°29	12°50	29°52	13° 2	25° 6	26°26	18°51	n.a.	S 27
S 28	12 7 3	3°34'01	0♈ 7	19° 7	20°25	27° 9	24°57	7°34	12°48	29°54	13° 3	25° 4	26°23	18°58	n.a.	S 28
M29	12 11 0	4°32'16	15°15	20°59	21°33	26°59	24°50	7°39	12°47	29°56	13° 5	25° 3	26°19	19° 5	n.a.	M29
T 30	12 14 56	5°30'28	0♉ 9	22°53	22°41	26°50	24°43	7°44	12°45	29°58	13° 6	25°D 2	26°16	19°11	n.a.	T 30
W31	12 18 53	6♈28'39	14♉44	24♓49	23♒48	26♌42	24♎36	7♊49	12♏43	29♒59	13♈ 7	25♈ 3	26♈13	19♍18	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	8s59	1n17	1s40	19s12	1s 8	20s24	1n40	13n21	4n 3	9s14	1n25	20n34	1s 0	15s43	0n18	13s 7	1s14	9s36	15s52	10n 9	10n49	8n46		n.a.
T 2	8 37	8 15	0 22	19 3	1 17	20 20	1 35	13 28	4 2	9 13	1 25	20 34	1 0	15 43	0 18	13 7	1 14	9 35	15 52	10 9	10 48	8 42		n.a.
W 3	8 14	14 36	0n55	18 53	1 25	20 15	1 29	13 36	4 1	9 12	1 25	20 35	0 59	15 43	0 18	13 6	1 14	9 35	15 52	10 9	10 46	8 39		n.a.
T 4	7 52	20 1	2 7	18 41	1 32	20 9	1 24	13 43	3 59	9 11	1 25	20 36	0 59	15 43	0 18	13 5	1 14	9 34	15 52	10 9	10 45	8 36		n.a.
F 5	7 29	24 14	3 10	18 27	1 39	20 3	1 18	13 51	3 58	9 9	1 26	20 36	0 59	15 43	0 18	13 4	1 14	9 33	15 51	10 9	10 44	8 33		n.a.
S 6	7 6	27 2	4 0	18 12	1 46	19 57	1 13	13 58	3 56	9 8	1 26	20 37	0 59	15 42	0 18	13 3	1 14	9 33	15 51	10 9	10 43	8 29		n.a.
S 7	6 44	28 20	4 38	17 56	1 52	19 50	1 7	14 4	3 55	9 7	1 26	20 38	0 59	15 42	0 18	13 3	1 14	9 32	15 51	10 9	10 42	8 26		n.a.
M 8	6 21	28 8	5 1	17 37	1 58	19 42	1 2	14 11	3 53	9 5	1 26	20 38	0 58	15 42	0 18	13 2	1 14	9 32	15 51	10 8	10 41	8 23		n.a.
T 9	5 58	26 32	5 9	17 18	2 3	19 34	0 57	14 18	3 51	9 3	1 26	20 39	0 58	15 42	0 18	13 1	1 14	9 31	15 51	10 6	10 40	8 20		n.a.
W10	5 35	23 43	5 4	16 56	2 7	19 25	0 52	14 24	3 49	9 2	1 26	20 40	0 58	15 41	0 18	13 0	1 14	9 30	15 50	10 3	10 38	8 16		n.a.
T 11	5 12	19 55	4 45	16 34	2 11	19 16	0 47	14 30	3 47	9 0	1 26	20 41	0 58	15 41	0 18	13 0	1 14	9 30	15 50	10 1	10 37	8 13		n.a.
F 12	4 48	15 21	4 14	16 9	2 15	19 6	0 42	14 36	3 45	8 58	1 26	20 41	0 58	15 41	0 18	12 59	1 14	9 29	15 50	9 58	10 36	8 10		n.a.
S 13	4 25	10 14	3 32	15 44	2 18	18 56	0 37	14 41	3 43	8 57	1 27	20 42	0 57	15 40	0 18	12 58	1 14	9 28	15 50	9 56	10 35	8 7		n.a.
S 14	4 2	4 46	2 41	15 16	2 21	18 45	0 32	14 46	3 41	8 55	1 27	20 43	0 57	15 40	0 18	12 57	1 14	9 28	15 50	9 54	10 34	8 3		n.a.
M15	3 39	0s52	1 43	14 47	2 23	18 33	0 27	14 51	3 39	8 53	1 27	20 44	0 57	15 40	0 19	12 57	1 14	9 27	15 50	9 53	10 33	8 0		n.a.
T 16	3 15	6 30	0 40	14 17	2 24	18 22	0 22	14 56	3 37	8 51	1 27	20 45	0 57	15 39	0 19	12 56	1 14	9 27	15 50	9 52	10 31	7 57		n.a.
W17	2 52	11 57	0s26	13 45	2 25	18 9	0 17	15 0	3 34	8 49	1 27	20 45	0 57	15 39	0 19	12 55	1 14	9 26	15 49	9 52	10 30	7 53		n.a.
T 18	2 29	17 2	1 30	13 11	2 26	17 56	0 12	15 5	3 32	8 47	1 27	20 46	0 56	15 39	0 19	12 54	1 14	9 25	15 49	9 52	10 29	7 50		n.a.
F 19	2 5	21 30	2 32	12 36	2 26	17 43	0 8	15 8	3 29	8 45	1 27	20 47	0 56	15 38	0 19	12 54	1 14	9 25	15 49	9 53	10 28	7 47		n.a.
S 20	1 42	25 6	3 28	12 0	2 25	17 29	0 3	15 12	3 27	8 43	1 27	20 48	0 56	15 38	0 19	12 53	1 14	9 24	15 49	9 53	10 27	7 44		n.a.
S 21	1 18	27 32	4 15	11 21	2 24	17 14	0s 1	15 15	3 24	8 41	1 27	20 49	0 56	15 37	0 19	12 52	1 14	9 23	15 49	9 54	10 26	7 40		n.a.
M22	0 55	28 31	4 50	10 42	2 23	16 59	0 6	15 18	3 22	8 38	1 27	20 50	0 56	15 37	0 19	12 52	1 14	9 23	15 49	9 54	10 24	7 37		n.a.
T 23	0 31	27 49	5 10	10 1	2 21	16 44	0 10	15 21	3 19	8 36	1 28	20 51	0 55	15 36	0 19	12 51	1 14	9 22	15 49	9 54	10 23	7 34		n.a.
W24	0 8	25 22	5 13	9 18	2 18	16 28	0 14	15 23	3 16	8 34	1 28	20 52	0 55	15 36	0 19	12 50	1 14	9 22	15 49	9 53	10 22	7 30		n.a.
T 25	0n16	21 14	4 56	8 34	2 15	16 11	0 18	15 25	3 13	8 31	1 28	20 53	0 55	15 35	0 19	12 49	1 14	9 21	15 49	9 52	10 21	7 27		n.a.
F 26	0 39	15 41	4 19	7 49	2 11	15 54	0 22	15 27	3 11	8 29	1 28	20 54	0 55	15 35	0 19	12 49	1 14	9 20	15 48	9 50	10 20	7 24		n.a.
S 27	1 3	9 7	3 23	7 2	2 7	15 37	0 26	15 28	3 8	8 27	1 28	20 54	0 55	15 34	0 19	12 48	1 14	9 20	15 48	9 49	10 19	7 21		n.a.
S 28	1 26	1 59	2 13	6 14	2 2	15 19	0 30	15 30	3 5	8 24	1 28	20 55	0 55	15 34	0 19	12 47	1 14	9 19	15 48	9 49	10 17	7 17		n.a.
M29	1 49	5n15	0 54	5 24	1 57	15 1	0 34	15 30	3 2	8 22	1 28	20 56	0 54	15 33	0 19	12 47	1 14	9 19	15 48	9 48	10 16	7 14		n.a.
T 30	2 13	12 6	0n28	4 33	1 51	14 42	0 38	15 31	3 0	8 19	1 28	20 57	0 54	15 33	0 19	12 46	1 14	9 18	15 48	9 48	10 15	7 11		n.a.
W31	2n36	18n 8	1n47	3s41	1s45	14s23	0s41	15n31	2n57	8s17	1n28	20n58	0s54	15s32	0n19	12s45	1s14	9s18	15s48	9n48	10n14	7n 7		n.a.

Julian Day Number = 1678382.5, Delta T = 03h16m48s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'34, Lahiri = - 5°34'34 Julian Calendar 1 March 118 BCE == Greg. Calendar 26 Feb. 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

APRIL 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 22 49	7♈26'48	28♉53	26♓47	24♒56	26°R34	24°R29	7♊54	12°R41	0♓ 2	13♈ 9	25♈ 4	26♈10	19♍25	n.a.	T 1
F 2	12 26 46	8°24'54	12♊35	28°46	26° 4	26♌27	24♎22	7°59	12♏39	0° 3	13°10	25° 6	26° 7	19°31	n.a.	F 2
S 3	12 30 43	9°22'59	25°52	0♈47	27°12	26°21	24°15	8° 4	12°37	0° 5	13°11	25° 7	26° 4	19°38	n.a.	S 3
S 4	12 34 39	10°21'02	8♋44	2°49	28°21	26°16	24° 8	8°10	12°36	0° 7	13°13	25°R 7	26° 0	19°45	n.a.	S 4
M 5	12 38 36	11°19'02	21°16	4°53	29°29	26°12	24° 1	8°15	12°34	0° 9	13°14	25° 7	25°57	19°51	n.a.	M 5
T 6	12 42 32	12°17'01	3♌32	6°58	0♓37	26° 8	23°54	8°21	12°32	0°11	13°15	25° 6	25°54	19°58	n.a.	T 6
W 7	12 46 29	13°14'58	15°36	9° 4	1°46	26° 6	23°46	8°26	12°30	0°13	13°17	25° 5	25°51	20° 5	n.a.	W 7
T 8	12 50 25	14°12'52	27°31	11°12	2°54	26° 4	23°39	8°32	12°27	0°14	13°18	25° 3	25°48	20°11	n.a.	T 8
F 9	12 54 22	15°10'45	9♍22	13°21	4° 3	26° 3	23°31	8°37	12°25	0°16	13°20	25° 2	25°44	20°18	n.a.	F 9
S 10	12 58 18	16° 8'36	21°11	15°30	5°12	26°D 2	23°24	8°43	12°23	0°18	13°21	25° 0	25°41	20°25	n.a.	S 10
S 11	13 2 15	17° 6'25	3♎ 1	17°40	6°20	26° 3	23°16	8°49	12°21	0°19	13°22	24°59	25°38	20°31	n.a.	S 11
M12	13 6 12	18° 4'13	14°55	19°51	7°29	26° 4	23° 9	8°55	12°19	0°21	13°24	24°59	25°35	20°38	n.a.	M12
T 13	13 10 8	19° 1'59	26°54	22° 1	8°38	26° 6	23° 1	9° 1	12°17	0°23	13°25	24°D59	25°32	20°45	n.a.	T 13
W14	13 14 5	19°59'44	9♏ 1	24°12	9°47	26° 8	22°54	9° 7	12°15	0°24	13°26	24°59	25°29	20°51	n.a.	W14
T 15	13 18 1	20°57'27	21°18	26°21	10°56	26°12	22°46	9°13	12°12	0°26	13°28	24°59	25°25	20°58	n.a.	T 15
F 16	13 21 58	21°55'09	3♐46	28°31	12° 6	26°16	22°38	9°19	12°10	0°28	13°29	25° 0	25°22	21° 5	n.a.	F 16
S 17	13 25 54	22°52'50	16°28	0♑39	13°15	26°21	22°31	9°25	12° 8	0°29	13°30	25° 0	25°19	21°11	n.a.	S 17
S 18	13 29 51	23°50'30	29°26	2°46	14°24	26°26	22°23	9°31	12° 6	0°31	13°32	25° 0	25°16	21°18	n.a.	S 18
M19	13 33 47	24°48'08	12♒42	4°51	15°34	26°32	22°15	9°37	12° 3	0°32	13°33	25°R 0	25°13	21°25	n.a.	M19
T 20	13 37 44	25°45'45	26°17	6°55	16°43	26°39	22° 8	9°44	12° 1	0°34	13°34	25°D 0	25°10	21°31	n.a.	T 20
W21	13 41 41	26°43'22	10♓12	8°56	17°53	26°47	22° 0	9°50	11°59	0°35	13°36	25° 0	25° 6	21°38	n.a.	W21
T 22	13 45 37	27°40'57	24°27	10°56	19° 2	26°55	21°53	9°57	11°56	0°37	13°37	25° 0	25° 3	21°45	n.a.	T 22
F 23	13 49 34	28°38'31	9♈ 0	12°53	20°12	27° 4	21°45	10° 3	11°54	0°38	13°38	25° 1	25° 0	21°51	n.a.	F 23
S 24	13 53 30	29°36'04	23°46	14°48	21°22	27°13	21°38	10°10	11°51	0°39	13°40	25° 1	24°57	21°58	n.a.	S 24
S 25	13 57 27	0♉33'36	8♈40	16°40	22°32	27°24	21°30	10°16	11°49	0°41	13°41	25° 1	24°54	22° 5	n.a.	S 25
M26	14 1 23	1°31'07	23°34	18°29	23°42	27°34	21°23	10°23	11°47	0°42	13°42	25°R 1	24°50	22°11	n.a.	M26
T 27	14 5 20	2°28'37	8♉21	20°15	24°52	27°46	21°15	10°30	11°44	0°43	13°44	25° 1	24°47	22°18	n.a.	T 27
W28	14 9 16	3°26'05	22°52	21°59	26° 2	27°58	21° 8	10°37	11°42	0°45	13°45	25° 1	24°44	22°25	n.a.	W28
T 29	14 13 13	4°23'33	7♊ 4	23°40	27°12	28°10	21° 1	10°43	11°39	0°46	13°46	25° 0	24°41	22°31	n.a.	T 29
F 30	14 17 10	5♉20'59	20♊51	25♉18	28♓22	28♌23	20♎53	10♊50	11♏37	0♓47	13♈48	24♈59	24♈38	22♍38	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	2n59	23n 0	2n56	2s47	1s38	14s 4	0s45	15n31	2n54	8s14	1n28	20n59	0s54	15s32	0n19	12s45	1s14	9s17	15s48	9n49	10n13	7n 4		n.a.
F 2	3 22	26 25	3 53	1 53	1 31	13 44	0 49	15 31	2 51	8 11	1 28	21 0	0 54	15 31	0 19	12 44	1 14	9 16	15 48	9 49	10 12	7 1		n.a.
S 3	3 46	28 15	4 36	0 57	1 23	13 24	0 52	15 30	2 48	8 9	1 28	21 1	0 54	15 31	0 19	12 44	1 14	9 16	15 48	9 50	10 11	6 58		n.a.
S 4	4 9	28 28	5 4	0 0	1 15	13 3	0 55	15 29	2 45	8 6	1 28	21 2	0 53	15 30	0 19	12 43	1 14	9 15	15 48	9 50	10 9	6 54		n.a.
M 5	4 32	27 12	5 16	0n57	1 6	12 42	0 58	15 28	2 43	8 3	1 28	21 3	0 53	15 29	0 19	12 42	1 14	9 15	15 48	9 50	10 8	6 51		n.a.
T 6	4 54	24 39	5 13	1 56	0 57	12 20	1 2	15 27	2 40	8 1	1 28	21 4	0 53	15 29	0 19	12 42	1 14	9 14	15 48	9 49	10 7	6 48		n.a.
W 7	5 17	21 3	4 56	2 55	0 47	11 58	1 5	15 25	2 37	7 58	1 28	21 5	0 53	15 28	0 19	12 41	1 14	9 14	15 48	9 49	10 6	6 44		n.a.
T 8	5 40	16 38	4 27	3 54	0 37	11 36	1 8	15 23	2 34	7 55	1 28	21 7	0 53	15 27	0 19	12 40	1 15	9 13	15 48	9 48	10 5	6 41		n.a.
F 9	6 3	11 38	3 47	4 54	0 27	11 14	1 11	15 21	2 31	7 53	1 28	21 8	0 53	15 27	0 19	12 40	1 15	9 13	15 48	9 48	10 4	6 38		n.a.
S 10	6 25	6 14	2 57	5 55	0 17	10 51	1 13	15 18	2 28	7 50	1 28	21 9	0 52	15 26	0 19	12 39	1 15	9 12	15 48	9 47	10 2	6 34		n.a.
S 11	6 48	0 36	1 59	6 55	0 7	10 28	1 16	15 16	2 26	7 47	1 28	21 10	0 52	15 25	0 19	12 39	1 15	9 12	15 48	9 47	10 1	6 31		n.a.
M12	7 10	5s 5	0 56	7 54	0n 4	10 4	1 19	15 13	2 23	7 44	1 28	21 11	0 52	15 25	0 19	12 38	1 15	9 11	15 48	9 47	10 0	6 28		n.a.
T 13	7 32	10 39	0s11	8 54	0 15	9 40	1 21	15 9	2 20	7 41	1 28	21 12	0 52	15 24	0 19	12 38	1 15	9 10	15 48	9 47	9 59	6 24		n.a.
W14	7 54	15 53	1 17	9 53	0 25	9 16	1 23	15 6	2 17	7 39	1 28	21 13	0 52	15 23	0 19	12 37	1 15	9 10	15 48	9 47	9 58	6 21		n.a.
T 15	8 16	20 33	2 21	10 50	0 36	8 52	1 26	15 2	2 15	7 36	1 28	21 14	0 52	15 23	0 19	12 37	1 15	9 9	15 48	9 47	9 56	6 18		n.a.
F 16	8 38	24 24	3 19	11 47	0 46	8 27	1 28	14 58	2 12	7 33	1 28	21 15	0 51	15 22	0 19	12 36	1 15	9 9	15 48	9 47	9 55	6 14		n.a.
S 17	9 0	27 8	4 9	12 42	0 56	8 2	1 30	14 54	2 9	7 30	1 28	21 16	0 51	15 21	0 19	12 35	1 15	9 9	15 48	9 47	9 54	6 11		n.a.
S 18	9 21	28 29	4 46	13 36	1 6	7 37	1 32	14 50	2 7	7 28	1 27	21 17	0 51	15 21	0 19	12 35	1 15	9 8	15 48	9 47	9 53	6 8		n.a.
M19	9 43	28 15	5 10	14 28	1 15	7 12	1 34	14 45	2 4	7 25	1 27	21 18	0 51	15 20	0 19	12 34	1 15	9 8	15 48	9 47	9 52	6 4		n.a.
T 20	10 4	26 19	5 17	15 18	1 24	6 46	1 36	14 40	2 1	7 22	1 27	21 19	0 51	15 19	0 19	12 34	1 15	9 7	15 48	9 47	9 51	6 1		n.a.
W21	10 25	22 48	5 6	16 6	1 32	6 20	1 38	14 35	1 59	7 19	1 27	21 21	0 51	15 19	0 19	12 33	1 15	9 7	15 48	9 47	9 49	5 58		n.a.
T 22	10 46	17 51	4 37	16 51	1 40	5 54	1 39	14 30	1 56	7 16	1 27	21 22	0 51	15 18	0 19	12 33	1 15	9 6	15 48	9 47	9 48	5 54		n.a.
F 23	11 7	11 48	3 49	17 35	1 47	5 28	1 41	14 24	1 54	7 14	1 27	21 23	0 50	15 17	0 18	12 33	1 15	9 6	15 48	9 47	9 47	5 51		n.a.
S 24	11 27	5 1	2 45	18 16	1 54	5 2	1 42	14 19	1 51	7 11	1 27	21 24	0 50	15 16	0 18	12 32	1 15	9 5	15 48	9 47	9 46	5 48		n.a.
S 25	11 48	2n 6	1 30	18 55	2 0	4 35	1 44	14 13	1 49	7 8	1 27	21 25	0 50	15 16	0 18	12 32	1 15	9 5	15 48	9 48	9 45	5 44		n.a.
M26	12 8	9 8	0 8	19 31	2 5	4 8	1 45	14 7	1 46	7 6	1 27	21 26	0 50	15 15	0 18	12 31	1 15	9 4	15 48	9 48	9 44	5 41		n.a.
T 27	12 28	15 36	1n13	20 5	2 9	3 41	1 46	14 0	1 44	7 3	1 26	21 27	0 50	15 14	0 18	12 31	1 15	9 4	15 48	9 48	9 42	5 38		n.a.
W28	12 48	21 5	2 28	20 37	2 13	3 14	1 47	13 54	1 41	7 0	1 26	21 28	0 50	15 13	0 18	12 30	1 15	9 4	15 48	9 47	9 41	5 34		n.a.
T 29	13 8	25 14	3 33	21 6	2 16	2 47	1 48	13 47	1 39	6 58	1 26	21 29	0 50	15 13	0 18	12 30	1 15	9 3	15 49	9 47	9 40	5 31		n.a.
F 30	13n27	27n45	4n22	21n32	2n18	2s20	1s49	13n40	1n36	6s55	1n26	21n31	0s49	15s12	0n18	12s30	1s15	9s 3	15s49	9n47	9n39	5n28		n.a.

Julian Day Number = 1678413.5, Delta T = 03h16m47s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'30, Lahiri = - 5°34'29 Julian Calendar 1 Apr. 118 BCE == Greg. Calendar 29 March 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

MAY 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 6	6♉18'24	4♋13	26♉53	29♓32	28♌37	20°R46	10♊57	11°R34	0♓48	13♈49	24°R57	24♈35	22♍45	n.a.	S 1
S 2	14 25 3	7°15'48	17°10	28°25	0♈42	28°51	20♎39	11° 4	11♏32	0°50	13°50	24♈56	24°31	22°51	n.a.	S 2
M 3	14 28 59	8°13'11	29°46	29°53	1°53	29° 6	20°32	11°11	11°29	0°51	13°51	24°55	24°28	22°58	n.a.	M 3
T 4	14 32 56	9°10'32	12♌ 4	1♊19	3° 3	29°22	20°25	11°18	11°27	0°52	13°53	24°D55	24°25	23° 5	n.a.	T 4
W 5	14 36 52	10° 7'52	24° 7	2°42	4°13	29°38	20°18	11°25	11°24	0°53	13°54	24°56	24°22	23°11	n.a.	W 5
T 6	14 40 49	11° 5'10	6♍ 1	4° 1	5°24	29°54	20°12	11°32	11°22	0°54	13°55	24°57	24°19	23°18	n.a.	T 6
F 7	14 44 45	12° 2'28	17°51	5°18	6°34	0♍11	20° 5	11°39	11°20	0°55	13°56	24°58	24°16	23°25	n.a.	F 7
S 8	14 48 42	12°59'44	29°40	6°31	7°45	0°28	19°58	11°47	11°17	0°56	13°58	25° 0	24°12	23°31	n.a.	S 8
S 9	14 52 39	13°57'00	11♎33	7°41	8°55	0°46	19°52	11°54	11°15	0°57	13°59	25° 1	24° 9	23°38	n.a.	S 9
M10	14 56 35	14°54'14	23°33	8°47	10° 6	1° 5	19°46	12° 1	11°12	0°58	14° 0	25°R 1	24° 6	23°45	n.a.	M10
T 11	15 0 32	15°51'28	5♏42	9°50	11°17	1°23	19°39	12° 8	11°10	0°59	14° 1	25° 1	24° 3	23°51	n.a.	T 11
W12	15 4 28	16°48'41	18° 3	10°50	12°27	1°43	19°33	12°16	11° 7	1° 0	14° 2	25° 0	24° 0	23°58	n.a.	W12
T 13	15 8 25	17°45'53	0♐36	11°46	13°38	2° 2	19°27	12°23	11° 5	1° 0	14° 4	24°57	23°56	24° 5	n.a.	T 13
F 14	15 12 21	18°43'05	13°23	12°38	14°49	2°23	19°21	12°30	11° 2	1° 1	14° 5	24°54	23°53	24°11	n.a.	F 14
S 15	15 16 18	19°40'16	26°24	13°26	16° 0	2°43	19°16	12°38	11° 0	1° 2	14° 6	24°50	23°50	24°18	n.a.	S 15
S 16	15 20 14	20°37'27	9♑39	14°11	17°11	3° 4	19°10	12°45	10°57	1° 3	14° 7	24°47	23°47	24°25	n.a.	S 16
M17	15 24 11	21°34'37	23° 8	14°52	18°22	3°26	19° 5	12°53	10°55	1° 3	14° 8	24°44	23°44	24°31	n.a.	M17
T 18	15 28 8	22°31'48	6♒50	15°29	19°33	3°47	18°59	13° 0	10°53	1° 4	14° 9	24°41	23°41	24°38	n.a.	T 18
W19	15 32 4	23°28'58	20°44	16° 1	20°44	4°10	18°54	13° 8	10°50	1° 5	14°10	24°D41	23°37	24°45	n.a.	W19
T 20	15 36 1	24°26'07	4♓51	16°30	21°55	4°32	18°49	13°15	10°48	1° 5	14°12	24°41	23°34	24°51	n.a.	T 20
F 21	15 39 57	25°23'17	19° 7	16°54	23° 6	4°55	18°44	13°23	10°45	1° 6	14°13	24°42	23°31	24°58	n.a.	F 21
S 22	15 43 54	26°20'26	3♈32	17°14	24°17	5°19	18°39	13°31	10°43	1° 6	14°14	24°43	23°28	25° 5	n.a.	S 22
S 23	15 47 50	27°17'35	18° 2	17°29	25°29	5°42	18°35	13°38	10°41	1° 7	14°15	24°R44	23°25	25°11	n.a.	S 23
M24	15 51 47	28°14'45	2♉32	17°40	26°40	6° 6	18°30	13°46	10°38	1° 8	14°16	24°44	23°21	25°18	n.a.	M24
T 25	15 55 43	29°11'54	16°58	17°46	27°51	6°31	18°26	13°53	10°36	1° 8	14°17	24°43	23°18	25°25	n.a.	T 25
W26	15 59 40	0♊ 9'03	1♊14	17°R47	29° 3	6°56	18°22	14° 1	10°34	1° 8	14°18	24°39	23°15	25°31	n.a.	W26
T 27	16 3 37	1° 6'11	15°15	17°44	0♉14	7°21	18°18	14° 9	10°31	1° 9	14°19	24°35	23°12	25°38	n.a.	T 27
F 28	16 7 33	2° 3'20	28°57	17°37	1°26	7°46	18°14	14°17	10°29	1° 9	14°20	24°29	23° 9	25°45	n.a.	F 28
S 29	16 11 30	3° 0'28	12♋17	17°25	2°37	8°12	18°10	14°24	10°27	1° 9	14°21	24°23	23° 6	25°51	n.a.	S 29
S 30	16 15 26	3°57'36	25°15	17° 9	3°49	8°38	18° 7	14°32	10°25	1°10	14°22	24°17	23° 2	25°58	n.a.	S 30
M31	16 19 23	4♊54'44	7♌51	16♊49	5♉ 0	9♍ 5	18♎ 3	14♊40	10♏23	1♓10	14♈23	24♈13	22♈59	26♍ 5	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n46	28n35	4n56	21n56	2n19	1s52	1s50	13n33	1n34	6s52	1n26	21n32	0s49	15s11	0n18	12s29	1s15	9s 2	15s49	9n46	9n38	5n24		n.a.
S 2	14 6	27 47	5 14	22 18	2 20	1 25	1 51	13 26	1 32	6 50	1 26	21 33	0 49	15 10	0 18	12 29	1 16	9 2	15 49	9 46	9 36	5 21		n.a.
M 3	14 24	25 34	5 15	22 38	2 20	0 57	1 52	13 19	1 30	6 47	1 26	21 34	0 49	15 10	0 18	12 28	1 16	9 2	15 49	9 45	9 35	5 17		n.a.
T 4	14 43	22 12	5 3	22 55	2 19	0 29	1 52	13 11	1 27	6 45	1 25	21 35	0 49	15 9	0 18	12 28	1 16	9 1	15 49	9 45	9 34	5 14		n.a.
W 5	15 1	17 58	4 37	23 11	2 17	0 1	1 53	13 3	1 25	6 42	1 25	21 36	0 49	15 8	0 18	12 28	1 16	9 1	15 49	9 46	9 33	5 11		n.a.
T 6	15 19	13 6	3 59	23 24	2 15	0n26	1 53	12 55	1 23	6 40	1 25	21 37	0 49	15 7	0 18	12 27	1 16	9 0	15 49	9 46	9 32	5 7		n.a.
F 7	15 37	7 47	3 11	23 35	2 11	0 54	1 53	12 47	1 21	6 38	1 25	21 38	0 49	15 6	0 18	12 27	1 16	9 0	15 49	9 46	9 31	5 4		n.a.
S 8	15 55	2 12	2 16	23 44	2 7	1 22	1 54	12 39	1 18	6 35	1 25	21 39	0 48	15 6	0 18	12 27	1 16	9 0	15 50	9 47	9 29	5 1		n.a.
S 9	16 12	3s30	1 14	23 51	2 2	1 50	1 54	12 31	1 16	6 33	1 24	21 40	0 48	15 5	0 18	12 26	1 16	8 59	15 50	9 47	9 28	4 57		n.a.
M10	16 29	9 7	0 8	23 56	1 56	2 18	1 54	12 22	1 14	6 31	1 24	21 42	0 48	15 4	0 18	12 26	1 16	8 59	15 50	9 48	9 27	4 54		n.a.
T 11	16 46	14 30	0s59	23 59	1 50	2 46	1 54	12 13	1 12	6 29	1 24	21 43	0 48	15 3	0 18	12 26	1 16	8 59	15 50	9 47	9 26	4 51		n.a.
W12	17 3	19 23	2 4	24 1	1 43	3 14	1 54	12 4	1 10	6 27	1 24	21 44	0 48	15 3	0 18	12 26	1 16	8 58	15 50	9 47	9 25	4 47		n.a.
T 13	17 19	23 30	3 3	24 1	1 35	3 42	1 53	11 55	1 8	6 25	1 24	21 45	0 48	15 2	0 18	12 25	1 16	8 58	15 50	9 46	9 23	4 44		n.a.
F 14	17 35	26 33	3 55	23 59	1 26	4 10	1 53	11 46	1 6	6 22	1 23	21 46	0 48	15 1	0 18	12 25	1 16	8 58	15 50	9 45	9 22	4 40		n.a.
S 15	17 51	28 16	4 36	23 56	1 17	4 38	1 53	11 37	1 4	6 21	1 23	21 47	0 48	15 0	0 18	12 25	1 16	8 58	15 51	9 43	9 21	4 37		n.a.
S 16	18 7	28 23	5 3	23 52	1 6	5 6	1 52	11 27	1 2	6 19	1 23	21 48	0 47	15 0	0 18	12 25	1 16	8 57	15 51	9 42	9 20	4 34		n.a.
M17	18 22	26 51	5 13	23 45	0 55	5 34	1 52	11 17	1 0	6 17	1 23	21 49	0 47	14 59	0 18	12 24	1 16	8 57	15 51	9 41	9 19	4 30		n.a.
T 18	18 37	23 43	5 7	23 38	0 44	6 1	1 51	11 8	0 58	6 15	1 22	21 50	0 47	14 58	0 18	12 24	1 16	8 57	15 51	9 40	9 18	4 27		n.a.
W19	18 51	19 11	4 42	23 29	0 31	6 29	1 50	10 58	0 56	6 13	1 22	21 51	0 47	14 57	0 18	12 24	1 16	8 57	15 51	9 40	9 16	4 24		n.a.
T 20	19 6	13 33	4 0	23 19	0 18	6 56	1 50	10 48	0 54	6 11	1 22	21 52	0 47	14 57	0 18	12 24	1 16	8 56	15 52	9 40	9 15	4 20		n.a.
F 21	19 20	7 9	3 3	23 8	0 5	7 24	1 49	10 37	0 52	6 10	1 22	21 53	0 47	14 56	0 18	12 24	1 16	8 56	15 52	9 40	9 14	4 17		n.a.
S 22	19 33	0 19	1 53	22 56	0s 9	7 51	1 48	10 27	0 50	6 8	1 22	21 54	0 47	14 55	0 18	12 24	1 17	8 56	15 52	9 41	9 13	4 13		n.a.
S 23	19 47	6n35	0 37	22 43	0 24	8 18	1 47	10 16	0 49	6 7	1 21	21 55	0 47	14 54	0 18	12 23	1 17	8 56	15 52	9 41	9 12	4 10		n.a.
M24	20 0	13 9	0n43	22 29	0 39	8 45	1 46	10 6	0 47	6 5	1 21	21 56	0 47	14 54	0 18	12 23	1 17	8 55	15 52	9 41	9 10	4 7		n.a.
T 25	20 12	18 59	1 58	22 14	0 55	9 12	1 45	9 55	0 45	6 4	1 21	21 58	0 46	14 53	0 18	12 23	1 17	8 55	15 53	9 41	9 9	4 3		n.a.
W26	20 25	23 40	3 6	21 58	1 11	9 39	1 44	9 44	0 43	6 2	1 20	21 59	0 46	14 52	0 18	12 23	1 17	8 55	15 53	9 39	9 8	4 0		n.a.
T 27	20 37	26 52	4 1	21 42	1 27	10 5	1 42	9 33	0 41	6 1	1 20	22 0	0 46	14 52	0 18	12 23	1 17	8 55	15 53	9 38	9 7	3 56		n.a.
F 28	20 49	28 23	4 40	21 25	1 43	10 32	1 41	9 22	0 40	6 0	1 20	22 1	0 46	14 51	0 18	12 23	1 17	8 55	15 53	9 36	9 6	3 53		n.a.
S 29	21 0	28 10	5 3	21 8	1 59	10 58	1 40	9 10	0 38	5 59	1 20	22 2	0 46	14 50	0 18	12 23	1 17	8 54	15 53	9 33	9 5	3 50		n.a.
S 30	21 11	26 24	5 10	20 50	2 15	11 24	1 38	8 59	0 36	5 58	1 19	22 3	0 46	14 50	0 18	12 23	1 17	8 54	15 54	9 31	9 3	3 46		n.a.
M31	21n21	23n22	5n 2	20n33	2s31	11n49	1s37	8n47	0n35	5s57	1n19	22n 4	0s46	14s49	0n18	12s23	1s17	8s54	15s54	9n30	9n 2	3n43		n.a.

Julian Day Number = 1678443.5, Delta T = 03h16m46s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'26, Lahiri = - 5°34'25 Julian Calendar 1 May 118 BCE == Greg. Calendar 28 Apr. 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

JUNE 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 23 19	5♊51'51	20♌10	16°R25	6♉12	9♍32	18°R 0	14♊48	10°R20	1♓10	14♈24	24°R10	22♈56	26♍11	n.a.	T 1
W 2	16 27 16	6°48'57	2♍14	15♊58	7°23	9°59	17♎57	14°55	10♏18	1°10	14°24	24°D 8	22°53	26°18	n.a.	W 2
T 3	16 31 13	7°46'04	14° 8	15°28	8°35	10°26	17°54	15° 3	10°16	1°11	14°25	24♈ 8	22°50	26°25	n.a.	T 3
F 4	16 35 9	8°43'10	25°58	14°55	9°47	10°54	17°52	15°11	10°14	1°11	14°26	24° 9	22°47	26°31	n.a.	F 4
S 5	16 39 6	9°40'16	7♎49	14°20	10°59	11°22	17°49	15°19	10°12	1°11	14°27	24°11	22°43	26°38	n.a.	S 5
S 6	16 43 2	10°37'22	19°44	13°44	12°10	11°50	17°47	15°27	10°10	1°11	14°28	24°R12	22°40	26°45	n.a.	S 6
M 7	16 46 59	11°34'28	1♏49	13° 6	13°22	12°19	17°45	15°34	10° 8	1°11	14°29	24°12	22°37	26°51	n.a.	M 7
T 8	16 50 55	12°31'34	14° 8	12°29	14°34	12°48	17°43	15°42	10° 6	1°R11	14°30	24°10	22°34	26°58	n.a.	T 8
W 9	16 54 52	13°28'40	26°42	11°52	15°46	13°17	17°41	15°50	10° 4	1°11	14°30	24° 6	22°31	27° 5	n.a.	W 9
T 10	16 58 48	14°25'46	9♐34	11°16	16°58	13°46	17°40	15°58	10° 2	1°11	14°31	24° 0	22°27	27°11	n.a.	T 10
F 11	17 2 45	15°22'53	22°43	10°41	18°10	14°16	17°38	16° 6	10° 0	1°11	14°32	23°52	22°24	27°18	n.a.	F 11
S 12	17 6 42	16°20'00	6♑ 8	10° 9	19°22	14°46	17°37	16°14	9°59	1°11	14°33	23°43	22°21	27°25	n.a.	S 12
S 13	17 10 38	17°17'07	19°47	9°40	20°34	15°16	17°36	16°21	9°57	1°10	14°33	23°35	22°18	27°31	n.a.	S 13
M14	17 14 35	18°14'15	3♒37	9°14	21°46	15°46	17°35	16°29	9°55	1°10	14°34	23°27	22°15	27°38	n.a.	M14
T 15	17 18 31	19°11'23	17°35	8°52	22°59	16°17	17°34	16°37	9°53	1°10	14°35	23°22	22°12	27°45	n.a.	T 15
W16	17 22 28	20° 8'32	1♓39	8°35	24°11	16°48	17°34	16°45	9°52	1°10	14°35	23°18	22° 8	27°51	n.a.	W16
T 17	17 26 24	21° 5'42	15°47	8°22	25°23	17°19	17°34	16°53	9°50	1°10	14°36	23°D17	22° 5	27°58	n.a.	T 17
F 18	17 30 21	22° 2'53	29°56	8°14	26°35	17°50	17°D33	17° 1	9°48	1° 9	14°37	23°17	22° 2	28° 5	n.a.	F 18
S 19	17 34 18	23° 0'04	14♈ 5	8°D11	27°48	18°22	17°33	17° 8	9°47	1° 9	14°37	23°17	21°59	28°11	n.a.	S 19
S 20	17 38 14	23°57'16	28°14	8°14	29° 0	18°53	17°34	17°16	9°45	1° 8	14°38	23°R17	21°56	28°18	n.a.	S 20
M21	17 42 11	24°54'29	12♉19	8°22	0♊13	19°25	17°34	17°24	9°44	1° 8	14°39	23°16	21°53	28°25	n.a.	M21
T 22	17 46 7	25°51'43	26°20	8°36	1°25	19°58	17°35	17°32	9°42	1° 8	14°39	23°12	21°49	28°31	n.a.	T 22
W23	17 50 4	26°48'58	10♊12	8°55	2°38	20°30	17°36	17°40	9°41	1° 7	14°40	23° 6	21°46	28°38	n.a.	W23
T 24	17 54 0	27°46'14	23°53	9°21	3°50	21° 3	17°36	17°47	9°39	1° 7	14°40	22°57	21°43	28°44	n.a.	T 24
F 25	17 57 57	28°43'31	7♋19	9°52	5° 3	21°36	17°38	17°55	9°38	1° 6	14°41	22°47	21°40	28°51	n.a.	F 25
S 26	18 1 53	29°40'48	20°28	10°29	6°16	22° 9	17°39	18° 3	9°37	1° 6	14°41	22°36	21°37	28°58	n.a.	S 26
S 27	18 5 50	0♋38'06	3♌19	11°12	7°28	22°42	17°40	18°10	9°35	1° 5	14°42	22°25	21°33	29° 4	n.a.	S 27
M28	18 9 47	1°35'24	15°51	12° 0	8°41	23°15	17°42	18°18	9°34	1° 4	14°42	22°16	21°30	29°11	n.a.	M28
T 29	18 13 43	2°32'43	28° 7	12°54	9°54	23°49	17°44	18°26	9°33	1° 4	14°42	22° 8	21°27	29°18	n.a.	T 29
W30	18 17 40	3♋30'03	10♍10	13♊54	11♊ 7	24♍23	17♎46	18♊34	9♏32	1♓ 3	14♈43	22♈ 4	21♈24	29♍24	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n32	19n20	4n39	20n15	2s47	12n15	1s35	8n36	0n33	5s56	1n19	22n 5	0s46	14s48	0n18	12s23	1s17	8s54	15s54	9n28	9n 1	3n39		n.a.
W 2	21 42	14 36	4 5	19 57	3 2	12 40	1 34	8 24	0 31	5 55	1 19	22 6	0 46	14 48	0 18	12 23	1 17	8 54	15 54	9 28	9 0	3 36		n.a.
T 3	21 51	9 23	3 20	19 40	3 16	13 5	1 32	8 12	0 30	5 54	1 18	22 7	0 46	14 47	0 18	12 23	1 17	8 54	15 55	9 28	8 59	3 33		n.a.
F 4	22 0	3 52	2 27	19 23	3 29	13 29	1 30	8 0	0 28	5 53	1 18	22 7	0 45	14 46	0 18	12 23	1 17	8 54	15 55	9 28	8 57	3 29		n.a.
S 5	22 9	1s48	1 28	19 6	3 42	13 54	1 28	7 47	0 26	5 52	1 18	22 8	0 45	14 46	0 18	12 23	1 17	8 54	15 55	9 29	8 56	3 26		n.a.
S 6	22 18	7 26	0 24	18 51	3 53	14 18	1 27	7 35	0 25	5 52	1 17	22 9	0 45	14 45	0 18	12 23	1 17	8 53	15 55	9 29	8 55	3 22		n.a.
M 7	22 26	12 53	0s41	18 36	4 4	14 41	1 25	7 23	0 23	5 51	1 17	22 10	0 45	14 44	0 18	12 23	1 17	8 53	15 56	9 29	8 54	3 19		n.a.
T 8	22 33	17 56	1 46	18 23	4 13	15 5	1 23	7 10	0 22	5 51	1 17	22 11	0 45	14 44	0 18	12 23	1 17	8 53	15 56	9 28	8 53	3 16		n.a.
W 9	22 41	22 20	2 46	18 10	4 20	15 28	1 21	6 57	0 20	5 50	1 17	22 12	0 45	14 43	0 18	12 23	1 17	8 53	15 56	9 27	8 51	3 12		n.a.
T 10	22 47	25 45	3 39	18 0	4 26	15 50	1 19	6 45	0 19	5 50	1 16	22 13	0 45	14 43	0 18	12 23	1 18	8 53	15 56	9 25	8 50	3 9		n.a.
F 11	22 54	27 52	4 22	17 51	4 30	16 13	1 17	6 32	0 17	5 50	1 16	22 14	0 45	14 42	0 18	12 23	1 18	8 53	15 57	9 22	8 49	3 5		n.a.
S 12	23 0	28 25	4 52	17 43	4 33	16 35	1 14	6 19	0 16	5 50	1 16	22 15	0 45	14 41	0 18	12 23	1 18	8 53	15 57	9 19	8 48	3 2		n.a.
S 13	23 6	27 16	5 5	17 38	4 34	16 56	1 12	6 6	0 14	5 49	1 15	22 16	0 45	14 41	0 18	12 23	1 18	8 53	15 57	9 15	8 47	2 59		n.a.
M14	23 11	24 26	5 1	17 34	4 34	17 17	1 10	5 52	0 13	5 49	1 15	22 17	0 45	14 40	0 18	12 23	1 18	8 53	15 57	9 13	8 45	2 55		n.a.
T 15	23 16	20 9	4 39	17 33	4 32	17 38	1 8	5 39	0 12	5 49	1 15	22 18	0 44	14 40	0 18	12 24	1 18	8 53	15 58	9 10	8 44	2 52		n.a.
W16	23 20	14 44	4 0	17 33	4 29	17 58	1 6	5 26	0 10	5 49	1 15	22 18	0 44	14 39	0 18	12 24	1 18	8 53	15 58	9 9	8 43	2 48		n.a.
T 17	23 25	8 32	3 7	17 36	4 24	18 18	1 3	5 12	0 9	5 50	1 14	22 19	0 44	14 39	0 18	12 24	1 18	8 53	15 58	9 9	8 42	2 45		n.a.
F 18	23 28	1 53	2 2	17 40	4 19	18 38	1 1	4 58	0 7	5 50	1 14	22 20	0 44	14 38	0 18	12 24	1 18	8 53	15 58	9 9	8 41	2 41		n.a.
S 19	23 31	4n52	0 49	17 47	4 11	18 57	0 59	4 45	0 6	5 50	1 14	22 21	0 44	14 38	0 18	12 24	1 18	8 53	15 59	9 9	8 39	2 38		n.a.
S 20	23 34	11 22	0n26	17 56	4 3	19 15	0 56	4 31	0 5	5 50	1 13	22 22	0 44	14 37	0 18	12 24	1 18	8 53	15 59	9 9	8 38	2 35		n.a.
M21	23 37	17 18	1 40	18 6	3 54	19 33	0 54	4 17	0 3	5 51	1 13	22 23	0 44	14 37	0 18	12 25	1 18	8 53	15 59	9 8	8 37	2 31		n.a.
T 22	23 39	22 15	2 47	18 18	3 44	19 51	0 51	4 3	0 2	5 51	1 13	22 23	0 44	14 36	0 18	12 25	1 18	8 53	16 0	9 7	8 36	2 28		n.a.
W23	23 40	25 54	3 43	18 32	3 32	20 8	0 49	3 49	0 1	5 52	1 12	22 24	0 44	14 36	0 18	12 25	1 18	8 53	16 0	9 5	8 35	2 24		n.a.
T 24	23 42	27 59	4 25	18 48	3 21	20 24	0 46	3 35	0s 1	5 53	1 12	22 25	0 44	14 36	0 18	12 25	1 18	8 53	16 0	9 1	8 33	2 21		n.a.
F 25	23 42	28 22	4 52	19 5	3 8	20 40	0 44	3 20	0 2	5 53	1 12	22 26	0 44	14 35	0 18	12 25	1 18	8 53	16 0	8 57	8 32	2 18		n.a.
S 26	23 43	27 7	5 2	19 23	2 55	20 55	0 41	3 6	0 3	5 54	1 12	22 27	0 44	14 35	0 18	12 26	1 18	8 54	16 1	8 53	8 31	2 14		n.a.
S 27	23 43	24 27	4 57	19 42	2 42	21 10	0 39	2 52	0 4	5 55	1 11	22 27	0 44	14 34	0 18	12 26	1 18	8 54	16 1	8 49	8 30	2 11		n.a.
M28	23 42	20 40	4 38	20 3	2 28	21 24	0 36	2 37	0 6	5 56	1 11	22 28	0 44	14 34	0 18	12 26	1 18	8 54	16 1	8 46	8 29	2 7		n.a.
T 29	23 41	16 6	4 6	20 23	2 14	21 38	0 34	2 23	0 7	5 57	1 11	22 29	0 43	14 34	0 18	12 26	1 18	8 54	16 2	8 43	8 27	2 4		n.a.
W30	23n40	10n58	3n23	20n45	2s 0	21n51	0s31	2n 8	0s 8	5s58	1n10	22n30	0s43	14s33	0n17	12s27	1s19	8s54	16s 2	8n41	8n26	2n 0		n.a.

Julian Day Number = 1678474.5, Delta T = 03h16m45s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'22, Lahiri = - 5°34'21 Julian Calendar 1 June 118 BCE == Greg. Calendar 29 May 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

JULY 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 21 36	4♋27'23	22♍ 4	14♊59	12♊19	24♍57	17♎48	18♊41	9°R31	1°R 2	14♈43	22°R 1	21♈21	29♍31	n.a.	T 1
F 2	18 25 33	5°24'44	3♎53	16° 9	13°32	25°31	17°51	18°49	9♏30	1♓ 1	14°44	22°D 1	21°18	29°38	n.a.	F 2
S 3	18 29 29	6°22'06	15°43	17°25	14°45	26° 6	17°53	18°56	9°29	1° 1	14°44	22°R 1	21°14	29°44	n.a.	S 3
S 4	18 33 26	7°19'29	27°40	18°45	15°58	26°41	17°56	19° 4	9°28	1° 0	14°44	22♈ 1	21°11	29°51	n.a.	S 4
M 5	18 37 22	8°16'52	9♏48	20°11	17°11	27°15	17°59	19°12	9°27	0°59	14°45	22° 0	21° 8	29°58	n.a.	M 5
T 6	18 41 19	9°14'16	22°12	21°41	18°24	27°50	18° 2	19°19	9°26	0°58	14°45	21°56	21° 5	0♎ 4	n.a.	T 6
W 7	18 45 16	10°11'42	4♐56	23°16	19°37	28°26	18° 5	19°27	9°25	0°57	14°45	21°51	21° 2	0°11	n.a.	W 7
T 8	18 49 12	11° 9'08	18° 2	24°54	20°50	29° 1	18° 9	19°34	9°25	0°56	14°45	21°42	20°59	0°18	n.a.	T 8
F 9	18 53 9	12° 6'35	1♑30	26°37	22° 4	29°36	18°12	19°42	9°24	0°55	14°46	21°32	20°55	0°24	n.a.	F 9
S 10	18 57 5	13° 4'03	15°18	28°23	23°17	0♎12	18°16	19°49	9°23	0°55	14°46	21°20	20°52	0°31	n.a.	S 10
S 11	19 1 2	14° 1'33	29°23	0♋12	24°30	0°48	18°20	19°56	9°23	0°54	14°46	21° 9	20°49	0°38	n.a.	S 11
M12	19 4 58	14°59'04	13♒39	2° 4	25°43	1°24	18°24	20° 4	9°22	0°53	14°46	20°58	20°46	0°44	n.a.	M12
T 13	19 8 55	15°56'36	28° 1	3°59	26°57	2° 0	18°28	20°11	9°22	0°51	14°46	20°50	20°43	0°51	n.a.	T 13
W14	19 12 52	16°54'10	12♓24	5°56	28°10	2°37	18°33	20°18	9°21	0°50	14°46	20°45	20°39	0°58	n.a.	W14
T 15	19 16 48	17°51'45	26°43	7°54	29°23	3°13	18°37	20°26	9°21	0°49	14°46	20°42	20°36	1° 4	n.a.	T 15
F 16	19 20 45	18°49'22	10♈56	9°54	0♋37	3°50	18°42	20°33	9°20	0°48	14°46	20°41	20°33	1°11	n.a.	F 16
S 17	19 24 41	19°47'01	25° 0	11°55	1°50	4°27	18°47	20°40	9°20	0°47	14°47	20°41	20°30	1°18	n.a.	S 17
S 18	19 28 38	20°44'41	8♉56	13°56	3° 4	5° 4	18°52	20°47	9°20	0°46	14°47	20°40	20°27	1°24	n.a.	S 18
M19	19 32 34	21°42'23	22°44	15°58	4°17	5°41	18°57	20°55	9°20	0°45	14°R47	20°38	20°24	1°31	n.a.	M19
T 20	19 36 31	22°40'07	6♊22	18° 0	5°31	6°18	19° 3	21° 2	9°19	0°43	14°47	20°33	20°20	1°38	n.a.	T 20
W21	19 40 27	23°37'53	19°50	20° 2	6°45	6°55	19° 8	21° 9	9°19	0°42	14°47	20°26	20°17	1°44	n.a.	W21
T 22	19 44 24	24°35'40	3♋ 7	22° 3	7°58	7°33	19°14	21°16	9°D19	0°41	14°46	20°16	20°14	1°51	n.a.	T 22
F 23	19 48 21	25°33'29	16°13	24° 4	9°12	8°11	19°20	21°23	9°19	0°40	14°46	20° 3	20°11	1°58	n.a.	F 23
S 24	19 52 17	26°31'20	29° 4	26° 3	10°26	8°49	19°26	21°30	9°19	0°38	14°46	19°50	20° 8	2° 4	n.a.	S 24
S 25	19 56 14	27°29'12	11♌41	28° 3	11°40	9°27	19°32	21°36	9°19	0°37	14°46	19°38	20° 5	2°11	n.a.	S 25
M26	20 0 10	28°27'05	24° 4	0♌ 1	12°54	10° 5	19°38	21°43	9°20	0°36	14°46	19°26	20° 1	2°17	n.a.	M26
T 27	20 4 7	29°25'00	6♍14	1°58	14° 7	10°43	19°45	21°50	9°20	0°34	14°46	19°18	19°58	2°24	n.a.	T 27
W28	20 8 3	0♌22'57	18°13	3°53	15°21	11°22	19°51	21°57	9°20	0°33	14°46	19°11	19°55	2°31	n.a.	W28
T 29	20 12 0	1°20'55	0♎ 4	5°48	16°35	12° 0	19°58	22° 3	9°20	0°32	14°45	19° 8	19°52	2°37	n.a.	T 29
F 30	20 15 56	2°18'54	11°51	7°42	17°49	12°39	20° 5	22°10	9°21	0°30	14°45	19° 6	19°49	2°44	n.a.	F 30
S 31	20 19 53	3♌16'55	23♎40	9♌34	19♋ 3	13♎18	20♎12	22♊17	9♏21	0♓29	14♈45	19°D 6	19♈45	2♎51	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23n38	5n30	2n32	21n 7	1s45	22n 4	0s28	1n53	0s 9	5s59	1n10	22n30	0s43	14s33	0n17	12s27	1s19	8s54	16s 2	8n40	8n25	1n57			n.a.
F 2	23 36	0s 7	1 35	21 29	1 31	22 15	0 26	1 38	0 11	6 0	1 10	22 31	0 43	14 33	0 17	12 27	1 19	8 54	16 3	8 40	8 24	1 54			n.a.
S 3	23 33	5 44	0 33	21 51	1 16	22 27	0 23	1 23	0 12	6 2	1 10	22 32	0 43	14 32	0 17	12 28	1 19	8 54	16 3	8 40	8 23	1 50			n.a.
S 4	23 30	11 13	0s30	22 12	1 2	22 37	0 21	1 8	0 13	6 3	1 9	22 32	0 43	14 32	0 17	12 28	1 19	8 55	16 3	8 40	8 21	1 47			n.a.
M 5	23 27	16 23	1 33	22 33	0 48	22 47	0 18	0 53	0 14	6 4	1 9	22 33	0 43	14 32	0 17	12 28	1 19	8 55	16 4	8 40	8 20	1 43			n.a.
T 6	23 23	20 59	2 33	22 53	0 34	22 57	0 15	0 38	0 15	6 6	1 9	22 34	0 43	14 32	0 17	12 29	1 19	8 55	16 4	8 38	8 19	1 40			n.a.
W 7	23 19	24 45	3 27	23 12	0 21	23 5	0 13	0 23	0 16	6 7	1 8	22 34	0 43	14 31	0 17	12 29	1 19	8 55	16 4	8 36	8 18	1 36			n.a.
T 8	23 14	27 20	4 11	23 29	0 7	23 13	0 10	0 8	0 18	6 9	1 8	22 35	0 43	14 31	0 17	12 29	1 19	8 55	16 4	8 33	8 17	1 33			n.a.
F 9	23 9	28 25	4 43	23 45	0n 5	23 21	0 7	0s 8	0 19	6 10	1 8	22 36	0 43	14 31	0 17	12 30	1 19	8 56	16 5	8 29	8 15	1 30			n.a.
S 10	23 4	27 46	4 59	23 59	0 17	23 27	0 5	0 23	0 20	6 12	1 8	22 36	0 43	14 31	0 17	12 30	1 19	8 56	16 5	8 25	8 14	1 26			n.a.
S 11	22 58	25 21	4 58	24 11	0 28	23 34	0 2	0 38	0 21	6 14	1 7	22 37	0 43	14 31	0 17	12 31	1 19	8 56	16 5	8 20	8 13	1 23			n.a.
M12	22 52	21 20	4 38	24 21	0 39	23 39	0n 0	0 54	0 22	6 16	1 7	22 38	0 43	14 30	0 17	12 31	1 19	8 56	16 6	8 17	8 12	1 19			n.a.
T 13	22 45	16 3	4 0	24 28	0 49	23 43	0 3	1 9	0 23	6 18	1 7	22 38	0 43	14 30	0 17	12 31	1 19	8 56	16 6	8 13	8 11	1 16			n.a.
W14	22 38	9 52	3 7	24 33	0 58	23 47	0 5	1 25	0 24	6 20	1 6	22 39	0 43	14 30	0 17	12 32	1 19	8 57	16 6	8 11	8 9	1 12			n.a.
T 15	22 30	3 12	2 3	24 35	1 7	23 51	0 8	1 41	0 25	6 22	1 6	22 39	0 42	14 30	0 17	12 32	1 19	8 57	16 7	8 10	8 8	1 9			n.a.
F 16	22 22	3n35	0 51	24 34	1 14	23 53	0 11	1 56	0 26	6 24	1 6	22 40	0 42	14 30	0 17	12 33	1 19	8 57	16 7	8 10	8 7	1 5			n.a.
S 17	22 14	10 8	0n23	24 31	1 21	23 55	0 13	2 12	0 27	6 26	1 6	22 41	0 42	14 30	0 17	12 33	1 19	8 57	16 7	8 10	8 6	1 2			n.a.
S 18	22 5	16 8	1 35	24 25	1 27	23 56	0 16	2 28	0 28	6 28	1 5	22 41	0 42	14 30	0 17	12 34	1 19	8 58	16 8	8 10	8 5	0 59			n.a.
M19	21 56	21 15	2 41	24 16	1 32	23 56	0 18	2 43	0 29	6 30	1 5	22 42	0 42	14 30	0 17	12 34	1 19	8 58	16 8	8 9	8 3	0 55			n.a.
T 20	21 47	25 10	3 36	24 5	1 37	23 56	0 20	2 59	0 30	6 33	1 5	22 42	0 42	14 30	0 17	12 35	1 19	8 58	16 8	8 7	8 2	0 52			n.a.
W21	21 37	27 37	4 19	23 51	1 40	23 55	0 23	3 15	0 31	6 35	1 5	22 43	0 42	14 30	0 17	12 35	1 19	8 59	16 8	8 4	8 1	0 48			n.a.
T 22	21 27	28 27	4 47	23 35	1 43	23 53	0 25	3 31	0 32	6 37	1 4	22 43	0 42	14 30	0 17	12 36	1 19	8 59	16 9	8 0	8 0	0 45			n.a.
F 23	21 16	27 40	5 0	23 16	1 45	23 51	0 28	3 47	0 33	6 40	1 4	22 44	0 42	14 30	0 17	12 36	1 20	8 59	16 9	7 56	7 58	0 41			n.a.
S 24	21 5	25 24	4 56	22 55	1 46	23 48	0 30	4 3	0 34	6 42	1 4	22 44	0 42	14 30	0 17	12 37	1 20	9 0	16 9	7 51	7 57	0 38			n.a.
S 25	20 54	21 56	4 39	22 32	1 47	23 44	0 32	4 19	0 35	6 45	1 4	22 45	0 42	14 30	0 17	12 37	1 20	9 0	16 10	7 46	7 56	0 34			n.a.
M26	20 42	17 32	4 8	22 7	1 47	23 39	0 35	4 35	0 36	6 48	1 3	22 45	0 42	14 30	0 17	12 38	1 20	9 0	16 10	7 41	7 55	0 31			n.a.
T 27	20 30	12 31	3 26	21 41	1 47	23 34	0 37	4 51	0 37	6 50	1 3	22 46	0 42	14 30	0 17	12 38	1 20	9 1	16 10	7 38	7 54	0 28			n.a.
W28	20 18	7 6	2 36	21 12	1 45	23 28	0 39	5 7	0 38	6 53	1 3	22 46	0 42	14 30	0 17	12 39	1 20	9 1	16 11	7 36	7 52	0 24			n.a.
T 29	20 5	1 29	1 39	20 42	1 44	23 21	0 41	5 23	0 39	6 56	1 2	22 47	0 42	14 30	0 17	12 39	1 20	9 1	16 11	7 34	7 51	0 21			n.a.
F 30	19 52	4s 9	0 38	20 11	1 41	23 13	0 43	5 39	0 39	6 59	1 2	22 47	0 42	14 30	0 17	12 40	1 20	9 2	16 11	7 34	7 50	0 17			n.a.
S 31	19n39	9s40	0s24	19n39	1n39	23n 5	0n45	5s55	0s40	7s 1	1n 2	22n47	0s42	14s31	0n17	12s40	1s20	9s 2	16s12	7n34	7n49	0n14			n.a.

Julian Day Number = 1678504.5, Delta T = 03h16m44s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'17, Lahiri = - 5°34'17 Julian Calendar 1 July 118 BCE == Greg. Calendar 28 June 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

AUGUST 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 23 50	4♌14'57	5♏35	11♌25	20♋17	13♎57	20♎19	22♊23	9♏22	0°R27	14°R45	19°R 6	19♈42	2♎57	n.a.	S 1
M 2	20 27 46	5°13'01	17°42	13°15	21°32	14°36	20°26	22°30	9°22	0♓26	14♈44	19♈ 6	19°39	3° 4	n.a.	M 2
T 3	20 31 43	6°11'07	0♐ 7	15° 3	22°46	15°15	20°34	22°36	9°23	0°24	14°44	19° 3	19°36	3°11	n.a.	T 3
W 4	20 35 39	7° 9'14	12°54	16°50	24° 0	15°55	20°41	22°42	9°23	0°23	14°44	18°59	19°33	3°17	n.a.	W 4
T 5	20 39 36	8° 7'22	26° 6	18°36	25°14	16°34	20°49	22°49	9°24	0°21	14°44	18°52	19°30	3°24	n.a.	T 5
F 6	20 43 32	9° 5'33	9♑44	20°21	26°28	17°14	20°57	22°55	9°25	0°20	14°43	18°42	19°26	3°31	n.a.	F 6
S 7	20 47 29	10° 3'45	23°48	22° 5	27°43	17°54	21° 4	23° 1	9°26	0°18	14°43	18°32	19°23	3°37	n.a.	S 7
S 8	20 51 25	11° 1'58	8♒12	23°47	28°57	18°33	21°13	23° 7	9°26	0°17	14°42	18°22	19°20	3°44	n.a.	S 8
M 9	20 55 22	12° 0'14	22°52	25°28	0♌11	19°13	21°21	23°13	9°27	0°15	14°42	18°12	19°17	3°51	n.a.	M 9
T 10	20 59 19	12°58'31	7♓40	27° 8	1°26	19°54	21°29	23°19	9°28	0°14	14°42	18° 5	19°14	3°57	n.a.	T 10
W11	21 3 15	13°56'51	22°26	28°47	2°40	20°34	21°37	23°25	9°29	0°12	14°41	18° 0	19°11	4° 4	n.a.	W11
T 12	21 7 12	14°55'13	7♈ 6	0♍25	3°54	21°14	21°46	23°31	9°30	0°11	14°41	17°58	19° 7	4°11	n.a.	T 12
F 13	21 11 8	15°53'36	21°32	2° 2	5° 9	21°55	21°55	23°37	9°31	0° 9	14°40	17°D57	19° 4	4°17	n.a.	F 13
S 14	21 15 5	16°52'02	5♉44	3°37	6°23	22°35	22° 3	23°43	9°32	0° 7	14°40	17°58	19° 1	4°24	n.a.	S 14
S 15	21 19 1	17°50'31	19°39	5°11	7°38	23°16	22°12	23°49	9°34	0° 6	14°39	17°R58	18°58	4°30	n.a.	S 15
M16	21 22 58	18°49'02	3♊18	6°45	8°52	23°57	22°21	23°54	9°35	0° 4	14°38	17°57	18°55	4°37	n.a.	M16
T 17	21 26 54	19°47'35	16°42	8°17	10° 7	24°38	22°30	24° 0	9°36	0° 3	14°38	17°54	18°51	4°44	n.a.	T 17
W18	21 30 51	20°46'10	29°52	9°48	11°22	25°19	22°40	24° 5	9°37	0° 1	14°37	17°49	18°48	4°50	n.a.	W18
T 19	21 34 47	21°44'48	12♋49	11°18	12°36	26° 0	22°49	24°11	9°39	29♒59	14°37	17°41	18°45	4°57	n.a.	T 19
F 20	21 38 44	22°43'28	25°34	12°47	13°51	26°41	22°58	24°16	9°40	29°58	14°36	17°32	18°42	5° 4	n.a.	F 20
S 21	21 42 41	23°42'10	8♌ 7	14°15	15° 6	27°22	23° 8	24°21	9°42	29°56	14°35	17°21	18°39	5°10	n.a.	S 21
S 22	21 46 37	24°40'54	20°28	15°41	16°20	28° 4	23°18	24°26	9°43	29°54	14°35	17°12	18°36	5°17	n.a.	S 22
M23	21 50 34	25°39'40	2♍39	17° 7	17°35	28°46	23°27	24°31	9°45	29°53	14°34	17° 3	18°32	5°24	n.a.	M23
T 24	21 54 30	26°38'28	14°40	18°32	18°50	29°27	23°37	24°36	9°46	29°51	14°33	16°56	18°29	5°30	n.a.	T 24
W25	21 58 27	27°37'19	26°33	19°55	20° 5	0♏ 9	23°47	24°41	9°48	29°49	14°33	16°52	18°26	5°37	n.a.	W25
T 26	22 2 23	28°36'11	8♎21	21°17	21°20	0°51	23°57	24°46	9°50	29°48	14°32	16°49	18°23	5°44	n.a.	T 26
F 27	22 6 20	29°35'05	20° 7	22°38	22°35	1°33	24° 8	24°51	9°52	29°46	14°31	16°D49	18°20	5°50	n.a.	F 27
S 28	22 10 16	0♍34'01	1♏55	23°57	23°49	2°15	24°18	24°56	9°53	29°44	14°30	16°50	18°17	5°57	n.a.	S 28
S 29	22 14 13	1°32'59	13°49	25°16	25° 4	2°57	24°28	25° 0	9°55	29°43	14°30	16°51	18°13	6° 4	n.a.	S 29
M30	22 18 10	2°31'59	25°54	26°32	26°19	3°40	24°39	25° 5	9°57	29°41	14°29	16°52	18°10	6°10	n.a.	M30
T 31	22 22 6	3♍31'01	8♐16	27♍48	27♌34	4♏22	24♎49	25♊ 9	9♏59	29♒39	14♈28	16°R53	18♈ 7	6♎17	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	19n25	14s53	1s26	19n 5	1n35	22n56	0n47	6s12	0s41	7s 4	1n 2	22n48	0s42	14s31	0n17	12s41	1s20	9s 2	16s12	7n34	7n48	0n10			n.a.
M 2	19 11	19 38	2 26	18 30	1 32	22 47	0 49	6 28	0 42	7 7	1 1	22 48	0 42	14 31	0 17	12 41	1 20	9 3	16 12	7 34	7 46	0 7			n.a.
T 3	18 56	23 39	3 20	17 54	1 28	22 37	0 51	6 44	0 43	7 10	1 1	22 49	0 42	14 31	0 17	12 42	1 20	9 3	16 12	7 33	7 45	0 3			n.a.
W 4	18 42	26 39	4 5	17 17	1 23	22 26	0 53	7 0	0 44	7 14	1 1	22 49	0 42	14 31	0 17	12 42	1 20	9 3	16 13	7 31	7 44	0 0			n.a.
T 5	18 27	28 18	4 39	16 40	1 19	22 14	0 55	7 16	0 45	7 17	1 1	22 49	0 41	14 32	0 17	12 43	1 20	9 4	16 13	7 28	7 43	0s 3			n.a.
F 6	18 11	28 19	4 59	16 2	1 14	22 2	0 57	7 32	0 45	7 20	1 1	22 50	0 41	14 32	0 17	12 44	1 20	9 4	16 13	7 25	7 41	0 7			n.a.
S 7	17 55	26 32	5 1	15 23	1 8	21 49	0 59	7 48	0 46	7 23	1 0	22 50	0 41	14 32	0 17	12 44	1 20	9 5	16 14	7 21	7 40	0 10			n.a.
S 8	17 39	23 0	4 45	14 44	1 3	21 35	1 0	8 5	0 47	7 26	1 0	22 51	0 41	14 32	0 17	12 45	1 20	9 5	16 14	7 17	7 39	0 14			n.a.
M 9	17 23	17 58	4 10	14 4	0 57	21 21	1 2	8 21	0 48	7 30	1 0	22 51	0 41	14 33	0 17	12 45	1 20	9 6	16 14	7 13	7 38	0 17			n.a.
T 10	17 7	11 50	3 17	13 24	0 51	21 6	1 4	8 37	0 49	7 33	1 0	22 51	0 41	14 33	0 17	12 46	1 20	9 6	16 14	7 10	7 37	0 21			n.a.
W11	16 50	5 3	2 12	12 43	0 44	20 51	1 5	8 53	0 49	7 36	0 59	22 52	0 41	14 33	0 16	12 46	1 20	9 6	16 15	7 8	7 35	0 24			n.a.
T 12	16 33	1n58	0 58	12 2	0 38	20 35	1 7	9 9	0 50	7 40	0 59	22 52	0 41	14 34	0 16	12 47	1 20	9 7	16 15	7 7	7 34	0 28			n.a.
F 13	16 15	8 47	0n19	11 21	0 31	20 18	1 8	9 25	0 51	7 43	0 59	22 52	0 41	14 34	0 16	12 48	1 20	9 7	16 15	7 7	7 33	0 31			n.a.
S 14	15 57	15 3	1 34	10 40	0 24	20 1	1 10	9 41	0 52	7 47	0 59	22 53	0 41	14 34	0 16	12 48	1 20	9 8	16 16	7 7	7 32	0 34			n.a.
S 15	15 40	20 26	2 41	9 59	0 17	19 43	1 11	9 57	0 52	7 50	0 58	22 53	0 41	14 35	0 16	12 49	1 20	9 8	16 16	7 8	7 31	0 38			n.a.
M16	15 21	24 37	3 38	9 17	0 10	19 24	1 12	10 13	0 53	7 54	0 58	22 53	0 41	14 35	0 16	12 49	1 20	9 9	16 16	7 7	7 29	0 41			n.a.
T 17	15 3	27 23	4 22	8 36	0 2	19 5	1 14	10 29	0 54	7 57	0 58	22 53	0 41	14 36	0 16	12 50	1 20	9 9	16 16	7 6	7 28	0 45			n.a.
W18	14 44	28 33	4 51	7 54	0s 5	18 46	1 15	10 45	0 54	8 1	0 58	22 54	0 41	14 36	0 16	12 51	1 20	9 9	16 17	7 4	7 27	0 48			n.a.
T 19	14 25	28 8	5 4	7 13	0 13	18 26	1 16	11 0	0 55	8 5	0 58	22 54	0 41	14 37	0 16	12 51	1 20	9 10	16 17	7 1	7 26	0 52			n.a.
F 20	14 6	26 13	5 2	6 31	0 20	18 5	1 17	11 16	0 56	8 9	0 57	22 54	0 41	14 37	0 16	12 52	1 20	9 10	16 17	6 57	7 24	0 55			n.a.
S 21	13 46	23 2	4 46	5 50	0 28	17 44	1 18	11 32	0 56	8 12	0 57	22 54	0 41	14 38	0 16	12 52	1 20	9 11	16 17	6 53	7 23	0 59			n.a.
S 22	13 27	18 52	4 16	5 9	0 36	17 22	1 19	11 48	0 57	8 16	0 57	22 55	0 41	14 38	0 16	12 53	1 20	9 11	16 18	6 50	7 22	1 2			n.a.
M23	13 7	13 59	3 35	4 29	0 44	17 0	1 20	12 3	0 58	8 20	0 57	22 55	0 41	14 39	0 16	12 54	1 20	9 12	16 18	6 46	7 21	1 6			n.a.
T 24	12 47	8 38	2 44	3 48	0 51	16 37	1 20	12 19	0 58	8 24	0 57	22 55	0 41	14 39	0 16	12 54	1 20	9 12	16 18	6 44	7 20	1 9			n.a.
W25	12 26	3 1	1 47	3 8	0 59	16 14	1 21	12 34	0 59	8 28	0 56	22 55	0 41	14 40	0 16	12 55	1 20	9 13	16 18	6 42	7 18	1 12			n.a.
T 26	12 6	2s39	0 46	2 28	1 7	15 51	1 22	12 50	1 0	8 32	0 56	22 56	0 41	14 40	0 16	12 55	1 20	9 13	16 18	6 41	7 17	1 16			n.a.
F 27	11 45	8 13	0s18	1 49	1 15	15 27	1 22	13 5	1 0	8 36	0 56	22 56	0 41	14 41	0 16	12 56	1 20	9 14	16 19	6 41	7 16	1 19			n.a.
S 28	11 24	13 32	1 21	1 10	1 23	15 2	1 23	13 21	1 1	8 40	0 56	22 56	0 41	14 41	0 16	12 57	1 20	9 14	16 19	6 41	7 15	1 23			n.a.
S 29	11 3	18 24	2 21	0 31	1 31	14 37	1 24	13 36	1 1	8 44	0 56	22 56	0 41	14 42	0 16	12 57	1 20	9 15	16 19	6 42	7 13	1 26			n.a.
M30	10 41	22 37	3 16	0s 7	1 38	14 12	1 24	13 51	1 2	8 48	0 55	22 56	0 41	14 43	0 16	12 58	1 20	9 15	16 19	6 42	7 12	1 30			n.a.
T 31	10n20	25s56	4s 3	0s44	1s46	13n46	1n24	14s 6	1s 3	8s52	0n55	22n57	0s41	14s43	0n16	12s58	1s20	9s16	16s20	6n42	7n11	1s33			n.a.

Julian Day Number = 1678535.5, Delta T = 03h16m44s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'13, Lahiri = - 5°34'13 Julian Calendar 1 Aug. 118 BCE == Greg. Calendar 29 July 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

SEPTEMBER 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 26 3	4♍30'04	21♐ 0	29♍ 2	28♌49	5♏ 4	25♎ 0	25♊14	10♏ 1	29°R38	14°R27	16°R51	18♈ 4	6♎24	n.a.	W 1
T 2	22 29 59	5°29'10	4♑ 9	0♎14	0♍ 4	5°47	25°11	25°18	10° 3	29♒36	14♈26	16♈48	18° 1	6°30	n.a.	T 2
F 3	22 33 56	6°28'17	17°46	1°24	1°19	6°30	25°21	25°22	10° 5	29°34	14°26	16°43	17°57	6°37	n.a.	F 3
S 4	22 37 52	7°27'27	1♒52	2°33	2°34	7°13	25°32	25°26	10° 7	29°33	14°25	16°37	17°54	6°43	n.a.	S 4
S 5	22 41 49	8°26'38	16°23	3°40	3°49	7°55	25°43	25°30	10° 9	29°31	14°24	16°31	17°51	6°50	n.a.	S 5
M 6	22 45 45	9°25'51	1♓15	4°44	5° 4	8°38	25°54	25°34	10°12	29°29	14°23	16°26	17°48	6°57	n.a.	M 6
T 7	22 49 42	10°25'06	16°19	5°46	6°19	9°21	26° 6	25°38	10°14	29°28	14°22	16°22	17°45	7° 3	n.a.	T 7
W 8	22 53 39	11°24'24	1♈26	6°46	7°34	10° 4	26°17	25°41	10°16	29°26	14°21	16°19	17°42	7°10	n.a.	W 8
T 9	22 57 35	12°23'43	16°27	7°43	8°50	10°48	26°28	25°45	10°19	29°25	14°20	16°D18	17°38	7°17	n.a.	T 9
F 10	23 1 32	13°23'05	1♉14	8°37	10° 5	11°31	26°39	25°49	10°21	29°23	14°19	16°19	17°35	7°23	n.a.	F 10
S 11	23 5 28	14°22'30	15°42	9°28	11°20	12°14	26°51	25°52	10°23	29°21	14°18	16°20	17°32	7°30	n.a.	S 11
S 12	23 9 25	15°21'57	29°47	10°15	12°35	12°58	27° 2	25°55	10°26	29°20	14°17	16°22	17°29	7°37	n.a.	S 12
M13	23 13 21	16°21'26	13♊30	10°58	13°50	13°41	27°14	25°59	10°28	29°18	14°16	16°R23	17°26	7°43	n.a.	M13
T 14	23 17 18	17°20'58	26°51	11°37	15° 5	14°25	27°26	26° 2	10°31	29°17	14°15	16°22	17°22	7°50	n.a.	T 14
W15	23 21 14	18°20'32	9♋52	12°11	16°21	15° 9	27°38	26° 5	10°33	29°15	14°14	16°21	17°19	7°57	n.a.	W15
T 16	23 25 11	19°20'09	22°37	12°41	17°36	15°53	27°49	26° 8	10°36	29°14	14°13	16°18	17°16	8° 3	n.a.	T 16
F 17	23 29 8	20°19'48	5♌ 6	13° 4	18°51	16°36	28° 1	26°11	10°39	29°12	14°12	16°14	17°13	8°10	n.a.	F 17
S 18	23 33 4	21°19'29	17°24	13°22	20° 6	17°20	28°13	26°13	10°41	29°11	14°11	16°10	17°10	8°17	n.a.	S 18
S 19	23 37 1	22°19'13	29°31	13°33	21°22	18° 4	28°25	26°16	10°44	29° 9	14°10	16° 5	17° 7	8°23	n.a.	S 19
M20	23 40 57	23°18'58	11♍30	13°R36	22°37	18°49	28°37	26°18	10°47	29° 8	14° 9	16° 2	17° 3	8°30	n.a.	M20
T 21	23 44 54	24°18'46	23°23	13°32	23°52	19°33	28°50	26°21	10°50	29° 6	14° 8	15°59	17° 0	8°36	n.a.	T 21
W22	23 48 50	25°18'36	5♎12	13°20	25° 8	20°17	29° 2	26°23	10°52	29° 5	14° 7	15°57	16°57	8°43	n.a.	W22
T 23	23 52 47	26°18'28	16°59	12°59	26°23	21° 1	29°14	26°25	10°55	29° 3	14° 6	15°D57	16°54	8°50	n.a.	T 23
F 24	23 56 43	27°18'22	28°46	12°29	27°38	21°46	29°26	26°27	10°58	29° 2	14° 5	15°58	16°51	8°56	n.a.	F 24
S 25	0 0 40	28°18'17	10♏36	11°50	28°54	22°30	29°39	26°29	11° 1	29° 0	14° 4	15°59	16°48	9° 3	n.a.	S 25
S 26	0 4 36	29°18'15	22°32	11° 3	0♎ 9	23°15	29°51	26°31	11° 4	28°59	14° 3	16° 0	16°44	9°10	n.a.	S 26
M27	0 8 33	0♎18'15	4♐39	10° 7	1°24	23°59	0♏ 4	26°33	11° 7	28°58	14° 2	16° 2	16°41	9°16	n.a.	M27
T 28	0 12 30	1°18'16	17° 0	9° 3	2°40	24°44	0°16	26°35	11°10	28°56	14° 1	16° 3	16°38	9°23	n.a.	T 28
W29	0 16 26	2°18'19	29°40	7°54	3°55	25°29	0°29	26°36	11°13	28°55	14° 0	16°R 3	16°35	9°30	n.a.	W29
T 30	0 20 23	3♎18'24	12♑42	6♎39	5♎10	26♏14	0♏42	26♊38	11♏16	28♒54	13♈58	16♈ 3	16♈32	9♎36	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n58	28s 3	4s40	1s21	1s54	13n20	1n25	14s21	1s 3	8s56	0n55	22n57	0s41	14s44	0n16	12s59	1s20	9s16	16s20	6n42	7n10	1s37		n.a.
T 2	9 36	28 42	5 3	1 56	2 1	12 54	1 25	14 36	1 4	9 0	0 55	22 57	0 41	14 45	0 16	13 0	1 20	9 17	16 20	6 40	7 9	1 40		n.a.
F 3	9 14	27 39	5 10	2 31	2 8	12 27	1 25	14 51	1 4	9 4	0 55	22 57	0 41	14 45	0 16	13 0	1 20	9 17	16 20	6 39	7 7	1 43		n.a.
S 4	8 52	24 50	5 0	3 6	2 16	12 0	1 25	15 6	1 5	9 8	0 54	22 57	0 41	14 46	0 16	13 1	1 20	9 18	16 20	6 36	7 6	1 47		n.a.
S 5	8 30	20 23	4 30	3 39	2 23	11 32	1 25	15 20	1 5	9 13	0 54	22 58	0 41	14 47	0 16	13 1	1 20	9 18	16 21	6 34	7 5	1 50		n.a.
M 6	8 7	14 35	3 41	4 11	2 29	11 4	1 25	15 35	1 6	9 17	0 54	22 58	0 41	14 47	0 16	13 2	1 20	9 19	16 21	6 32	7 4	1 54		n.a.
T 7	7 45	7 51	2 36	4 42	2 36	10 36	1 25	15 49	1 6	9 21	0 54	22 58	0 40	14 48	0 16	13 3	1 20	9 19	16 21	6 30	7 2	1 57		n.a.
W 8	7 22	0 39	1 20	5 11	2 42	10 8	1 25	16 4	1 7	9 25	0 54	22 58	0 40	14 49	0 16	13 3	1 20	9 20	16 21	6 29	7 1	2 1		n.a.
T 9	6 59	6n33	0n 1	5 40	2 48	9 39	1 25	16 18	1 7	9 30	0 54	22 58	0 40	14 50	0 16	13 4	1 20	9 20	16 21	6 29	7 0	2 4		n.a.
F 10	6 36	13 18	1 21	6 6	2 54	9 10	1 24	16 32	1 8	9 34	0 53	22 58	0 40	14 50	0 16	13 4	1 20	9 21	16 21	6 29	6 59	2 8		n.a.
S 11	6 13	19 11	2 34	6 31	2 59	8 41	1 24	16 46	1 8	9 38	0 53	22 58	0 40	14 51	0 16	13 5	1 20	9 21	16 22	6 30	6 58	2 11		n.a.
S 12	5 50	23 51	3 36	6 55	3 4	8 12	1 23	17 0	1 9	9 43	0 53	22 59	0 40	14 52	0 16	13 5	1 20	9 22	16 22	6 30	6 56	2 15		n.a.
M13	5 27	27 2	4 24	7 16	3 8	7 42	1 23	17 14	1 9	9 47	0 53	22 59	0 40	14 53	0 16	13 6	1 20	9 22	16 22	6 31	6 55	2 18		n.a.
T 14	5 3	28 36	4 56	7 35	3 12	7 12	1 22	17 27	1 10	9 51	0 53	22 59	0 40	14 54	0 16	13 6	1 20	9 23	16 22	6 31	6 54	2 21		n.a.
W15	4 40	28 31	5 12	7 51	3 15	6 42	1 22	17 41	1 10	9 56	0 53	22 59	0 40	14 55	0 16	13 7	1 20	9 23	16 22	6 30	6 53	2 25		n.a.
T 16	4 16	26 55	5 12	8 5	3 17	6 12	1 21	17 54	1 11	10 0	0 52	22 59	0 40	14 55	0 16	13 8	1 20	9 24	16 22	6 29	6 51	2 28		n.a.
F 17	3 52	24 0	4 57	8 15	3 18	5 41	1 20	18 7	1 11	10 5	0 52	22 59	0 40	14 56	0 16	13 8	1 20	9 24	16 22	6 27	6 50	2 32		n.a.
S 18	3 29	20 3	4 29	8 23	3 19	5 11	1 20	18 20	1 11	10 9	0 52	22 59	0 40	14 57	0 16	13 9	1 20	9 25	16 22	6 26	6 49	2 35		n.a.
S 19	3 5	15 20	3 49	8 27	3 19	4 40	1 19	18 33	1 12	10 14	0 52	22 59	0 40	14 58	0 16	13 9	1 20	9 25	16 23	6 24	6 48	2 39		n.a.
M20	2 41	10 5	2 59	8 27	3 17	4 9	1 18	18 46	1 12	10 18	0 52	22 59	0 40	14 59	0 16	13 10	1 20	9 26	16 23	6 23	6 46	2 42		n.a.
T 21	2 17	4 30	2 1	8 22	3 14	3 38	1 17	18 59	1 13	10 23	0 52	22 59	0 40	15 0	0 16	13 10	1 20	9 26	16 23	6 21	6 45	2 46		n.a.
W22	1 53	1s11	0 59	8 13	3 10	3 7	1 16	19 11	1 13	10 27	0 52	23 0	0 40	15 1	0 16	13 11	1 20	9 27	16 23	6 21	6 44	2 49		n.a.
T 23	1 29	6 50	0s 6	8 0	3 4	2 36	1 15	19 24	1 13	10 32	0 51	23 0	0 40	15 2	0 16	13 11	1 20	9 27	16 23	6 21	6 43	2 52		n.a.
F 24	1 5	12 15	1 10	7 41	2 56	2 4	1 14	19 36	1 14	10 36	0 51	23 0	0 40	15 2	0 16	13 12	1 20	9 28	16 23	6 21	6 42	2 56		n.a.
S 25	0 41	17 16	2 12	7 17	2 47	1 33	1 12	19 48	1 14	10 41	0 51	23 0	0 40	15 3	0 16	13 12	1 20	9 28	16 23	6 21	6 40	2 59		n.a.
S 26	0 17	21 39	3 9	6 48	2 35	1 1	1 11	20 0	1 14	10 45	0 51	23 0	0 40	15 4	0 16	13 13	1 20	9 29	16 23	6 22	6 39	3 3		n.a.
M27	0s 7	25 13	3 58	6 13	2 22	0 30	1 10	20 11	1 15	10 50	0 51	23 0	0 40	15 5	0 16	13 13	1 20	9 29	16 23	6 22	6 38	3 6		n.a.
T 28	0 31	27 40	4 38	5 34	2 7	0s 2	1 8	20 23	1 15	10 54	0 51	23 0	0 40	15 6	0 15	13 14	1 20	9 30	16 23	6 23	6 37	3 10		n.a.
W29	0 56	28 47	5 4	4 51	1 51	0 33	1 7	20 34	1 15	10 59	0 51	23 0	0 40	15 7	0 15	13 14	1 20	9 30	16 23	6 23	6 35	3 13		n.a.
T 30	1s20	28s21	5s17	4s 5	1s32	1s 5	1n 5	20s45	1s16	11s 3	0n50	23n 0	0s40	15s 8	0n15	13s14	1s20	9s31	16s23	6n23	6n34	3s17		n.a.

Julian Day Number = 1678566.5, Delta T = 03h16m43s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'09, Lahiri = - 5°34'09 Julian Calendar 1 Sept. 118 BCE == Greg. Calendar 29 Aug. 118 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

OCTOBER 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 24 19	4♎18'30	26♉10	5°R22	6♎26	26♏59	0♏54	26♊39	11♏19	28°R52	13°R57	16°R 2	16♈28	9♎43	n.a.	F 1
S 2	0 28 16	5°18'38	10♒ 6	4♎ 5	7°41	27°44	1° 7	26°40	11°22	28♒51	13♈56	16♈ 1	16°25	9°50	n.a.	S 2
S 3	0 32 12	6°18'48	24°29	2°50	8°56	28°29	1°20	26°41	11°26	28°50	13°55	16° 0	16°22	9°56	n.a.	S 3
M 4	0 36 9	7°18'59	9♓15	1°39	10°12	29°14	1°33	26°42	11°29	28°48	13°54	15°59	16°19	10° 3	n.a.	M 4
T 5	0 40 5	8°19'12	24°20	0°35	11°27	29°59	1°45	26°43	11°32	28°47	13°53	15°58	16°16	10°10	n.a.	T 5
W 6	0 44 2	9°19'27	9♈33	29♍39	12°43	0♐44	1°58	26°44	11°35	28°46	13°52	15°D58	16°13	10°16	n.a.	W 6
T 7	0 47 59	10°19'44	24°47	28°53	13°58	1°29	2°11	26°45	11°39	28°45	13°51	15°58	16° 9	10°23	n.a.	T 7
F 8	0 51 55	11°20'02	9♉50	28°19	15°13	2°15	2°24	26°45	11°42	28°44	13°49	15°58	16° 6	10°29	n.a.	F 8
S 9	0 55 52	12°20'23	24°35	27°56	16°29	3° 0	2°37	26°46	11°45	28°43	13°48	15°58	16° 3	10°36	n.a.	S 9
S 10	0 59 48	13°20'46	8♊56	27°D45	17°44	3°46	2°50	26°46	11°49	28°42	13°47	15°59	16° 0	10°43	n.a.	S 10
M11	1 3 45	14°21'11	22°51	27°45	18°59	4°31	3° 4	26°46	11°52	28°41	13°46	15°59	15°57	10°49	n.a.	M11
T 12	1 7 41	15°21'38	6♋19	27°56	20°15	5°17	3°17	26°R46	11°55	28°40	13°45	15°59	15°54	10°56	n.a.	T 12
W13	1 11 38	16°22'07	19°22	28°17	21°30	6° 2	3°30	26°46	11°59	28°39	13°44	15°59	15°50	11° 3	n.a.	W13
T 14	1 15 34	17°22'38	2♌ 3	28°48	22°46	6°48	3°43	26°46	12° 2	28°38	13°43	15°59	15°47	11° 9	n.a.	T 14
F 15	1 19 31	18°23'10	14°25	29°28	24° 1	7°34	3°56	26°46	12° 6	28°37	13°42	15°59	15°44	11°16	n.a.	F 15
S 16	1 23 28	19°23'45	26°34	0♎15	25°16	8°19	4°10	26°45	12° 9	28°36	13°40	15°59	15°41	11°23	n.a.	S 16
S 17	1 27 24	20°24'22	8♍32	1° 8	26°32	9° 5	4°23	26°45	12°12	28°35	13°39	16° 0	15°38	11°29	n.a.	S 17
M18	1 31 21	21°25'00	20°24	2° 8	27°47	9°51	4°36	26°44	12°16	28°34	13°38	16° 1	15°34	11°36	n.a.	M18
T 19	1 35 17	22°25'40	2♎12	3°13	29° 3	10°37	4°50	26°44	12°19	28°33	13°37	16° 1	15°31	11°43	n.a.	T 19
W20	1 39 14	23°26'21	13°59	4°23	0♏18	11°23	5° 3	26°43	12°23	28°32	13°36	16°R 1	15°28	11°49	n.a.	W20
T 21	1 43 10	24°27'04	25°47	5°36	1°34	12° 9	5°16	26°42	12°27	28°32	13°35	16° 1	15°25	11°56	n.a.	T 21
F 22	1 47 7	25°27'49	7♏39	6°52	2°49	12°55	5°30	26°41	12°30	28°31	13°34	16° 0	15°22	12° 2	n.a.	F 22
S 23	1 51 3	26°28'35	19°36	8°12	4° 4	13°41	5°43	26°40	12°34	28°30	13°33	15°59	15°19	12° 9	n.a.	S 23
S 24	1 55 0	27°29'23	1♐42	9°34	5°20	14°27	5°57	26°38	12°37	28°29	13°31	15°58	15°15	12°16	n.a.	S 24
M25	1 58 56	28°30'12	13°57	10°57	6°35	15°13	6°10	26°37	12°41	28°29	13°30	15°56	15°12	12°22	n.a.	M25
T 26	2 2 53	29°31'02	26°24	12°23	7°51	16° 0	6°24	26°36	12°45	28°28	13°29	15°54	15° 9	12°29	n.a.	T 26
W27	2 6 50	0♏31'53	9♑ 6	13°50	9° 6	16°46	6°37	26°34	12°48	28°28	13°28	15°52	15° 6	12°36	n.a.	W27
T 28	2 10 46	1°32'45	22° 6	15°18	10°21	17°32	6°51	26°32	12°52	28°27	13°27	15°51	15° 3	12°42	n.a.	T 28
F 29	2 14 43	2°33'39	5♒26	16°47	11°37	18°18	7° 4	26°30	12°55	28°26	13°26	15°D51	15° 0	12°49	n.a.	F 29
S 30	2 18 39	3°34'33	19° 9	18°17	12°52	19° 5	7°18	26°29	12°59	28°26	13°25	15°52	14°56	12°56	n.a.	S 30
S 31	2 22 36	4♏35'28	3♓15	19♎47	14♏ 7	19♐51	7♏31	26♊27	13♏ 3	28♒26	13♈24	15♈53	14♈53	13♎ 2	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s44	26s16	5s12	3s16	1s13	1s36	1n 4	20s56	1s16	11s 8	0n50	23n 0	0s40	15s 9	0n15	13s15	1s20	9s31	16s23	6n23	6n33	3s20		n.a.
S 2	2 8	22 33	4 50	2 27	0 53	2 8	1 2	21 7	1 16	11 13	0 50	23 0	0 40	15 10	0 15	13 15	1 20	9 31	16 23	6 22	6 32	3 23		n.a.
S 3	2 32	17 25	4 9	1 37	0 32	2 39	1 1	21 17	1 16	11 17	0 50	23 0	0 40	15 11	0 15	13 16	1 20	9 32	16 24	6 22	6 30	3 27		n.a.
M 4	2 56	11 7	3 10	0 50	0 11	3 11	0 59	21 28	1 17	11 22	0 50	23 0	0 40	15 12	0 15	13 16	1 20	9 32	16 24	6 21	6 29	3 30		n.a.
T 5	3 20	4 4	1 57	0 6	0n 9	3 42	0 57	21 38	1 17	11 27	0 50	23 0	0 40	15 13	0 15	13 17	1 20	9 33	16 24	6 21	6 28	3 34		n.a.
W 6	3 44	3n17	0 36	0n34	0 28	4 13	0 56	21 48	1 17	11 31	0 50	23 0	0 40	15 14	0 15	13 17	1 20	9 33	16 24	6 21	6 27	3 37		n.a.
T 7	4 8	10 28	0n49	1 9	0 46	4 45	0 54	21 57	1 17	11 36	0 50	23 1	0 40	15 15	0 15	13 17	1 20	9 34	16 24	6 21	6 25	3 41		n.a.
F 8	4 32	16 58	2 9	1 38	1 3	5 16	0 52	22 7	1 18	11 40	0 49	23 1	0 40	15 16	0 15	13 18	1 20	9 34	16 24	6 21	6 24	3 44		n.a.
S 9	4 56	22 20	3 19	2 1	1 18	5 47	0 50	22 16	1 18	11 45	0 49	23 1	0 40	15 17	0 15	13 18	1 20	9 34	16 24	6 21	6 23	3 48		n.a.
S 10	5 20	26 13	4 14	2 18	1 31	6 18	0 48	22 25	1 18	11 50	0 49	23 1	0 40	15 18	0 15	13 18	1 20	9 35	16 24	6 21	6 22	3 51		n.a.
M11	5 43	28 23	4 53	2 28	1 42	6 49	0 46	22 34	1 18	11 54	0 49	23 1	0 40	15 20	0 15	13 19	1 20	9 35	16 24	6 21	6 21	3 54		n.a.
T 12	6 7	28 47	5 14	2 32	1 52	7 19	0 44	22 43	1 18	11 59	0 49	23 1	0 40	15 21	0 15	13 19	1 20	9 36	16 23	6 21	6 19	3 58		n.a.
W13	6 30	27 32	5 17	2 31	2 0	7 50	0 42	22 51	1 19	12 3	0 49	23 1	0 40	15 22	0 15	13 20	1 20	9 36	16 23	6 21	6 18	4 1		n.a.
T 14	6 54	24 53	5 6	2 25	2 6	8 20	0 40	22 59	1 19	12 8	0 49	23 1	0 40	15 23	0 15	13 20	1 20	9 37	16 23	6 21	6 17	4 5		n.a.
F 15	7 17	21 9	4 40	2 13	2 11	8 50	0 38	23 7	1 19	12 13	0 49	23 1	0 40	15 24	0 15	13 20	1 20	9 37	16 23	6 22	6 16	4 8		n.a.
S 16	7 40	16 35	4 2	1 57	2 15	9 20	0 36	23 15	1 19	12 17	0 49	23 1	0 40	15 25	0 15	13 20	1 20	9 37	16 23	6 22	6 14	4 12		n.a.
S 17	8 4	11 27	3 14	1 38	2 17	9 50	0 34	23 22	1 19	12 22	0 48	23 1	0 39	15 26	0 15	13 21	1 20	9 38	16 23	6 22	6 13	4 15		n.a.
M18	8 27	5 57	2 18	1 15	2 18	10 19	0 31	23 29	1 19	12 27	0 48	23 1	0 39	15 27	0 15	13 21	1 20	9 38	16 23	6 22	6 12	4 19		n.a.
T 19	8 50	0 17	1 16	0 49	2 18	10 48	0 29	23 36	1 19	12 31	0 48	23 1	0 39	15 28	0 15	13 21	1 20	9 38	16 23	6 22	6 11	4 22		n.a.
W20	9 12	5s24	0 11	0 20	2 17	11 17	0 27	23 43	1 19	12 36	0 48	23 1	0 39	15 29	0 15	13 22	1 20	9 39	16 23	6 22	6 9	4 25		n.a.
T 21	9 35	10 55	0s54	0s11	2 15	11 46	0 25	23 49	1 20	12 40	0 48	23 1	0 39	15 30	0 15	13 22	1 20	9 39	16 23	6 22	6 8	4 29		n.a.
F 22	9 57	16 4	1 57	0 44	2 13	12 14	0 22	23 55	1 20	12 45	0 48	23 1	0 39	15 31	0 15	13 22	1 20	9 39	16 23	6 22	6 7	4 32		n.a.
S 23	10 20	20 39	2 56	1 18	2 10	12 42	0 20	24 1	1 20	12 50	0 48	23 1	0 39	15 33	0 15	13 22	1 20	9 40	16 23	6 22	6 6	4 36		n.a.
S 24	10 42	24 26	3 47	1 54	2 6	13 10	0 18	24 7	1 20	12 54	0 48	23 1	0 39	15 34	0 15	13 22	1 20	9 40	16 23	6 21	6 4	4 39		n.a.
M25	11 4	27 11	4 29	2 31	2 2	13 38	0 15	24 12	1 20	12 59	0 48	23 1	0 39	15 35	0 15	13 23	1 20	9 40	16 23	6 20	6 3	4 43		n.a.
T 26	11 26	28 38	4 58	3 9	1 57	14 5	0 13	24 17	1 20	13 3	0 48	23 1	0 39	15 36	0 15	13 23	1 20	9 41	16 22	6 19	6 2	4 46		n.a.
W27	11 47	28 37	5 14	3 48	1 52	14 31	0 11	24 22	1 20	13 8	0 47	23 1	0 39	15 37	0 15	13 23	1 19	9 41	16 22	6 19	6 1	4 49		n.a.
T 28	12 9	27 3	5 15	4 27	1 47	14 58	0 8	24 27	1 20	13 12	0 47	23 1	0 39	15 38	0 15	13 23	1 19	9 41	16 22	6 18	5 59	4 53		n.a.
F 29	12 30	23 56	4 58	5 7	1 41	15 24	0 6	24 31	1 20	13 17	0 47	23 1	0 39	15 39	0 15	13 23	1 19	9 42	16 22	6 18	5 58	4 56		n.a.
S 30	12 51	19 26	4 25	5 47	1 35	15 49	0 3	24 35	1 20	13 22	0 47	23 1	0 39	15 40	0 15	13 23	1 19	9 42	16 22	6 19	5 57	5 0		n.a.
S 31	13s12	13s45	3s35	6s27	1n29	16s15	0n 1	24s39	1s20	13s26	0n47	23n 1	0s39	15s42	0n15	13s24	1s19	9s42	16s22	6n19	5n56	5s 3		n.a.

Julian Day Number = 1678596.5, Delta T = 03h16m42s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'05, Lahiri = - 5°34'04 Julian Calendar 1 Oct. 118 BCE == Greg. Calendar 28 Sept. 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

NOVEMBER 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 26 32	5♏36'24	17♓43	21♎18	15♏23	20♐38	7♏45	26°R24	13♏ 6	28°R25	13°R23	15♈54	14♈50	13♎ 9	n.a.	M 1
T 2	2 30 29	6°37'20	2♈31	22°50	16°38	21°24	7°58	26♊22	13°10	28♒25	13♈22	15°55	14°47	13°16	n.a.	T 2
W 3	2 34 26	7°38'18	17°32	24°21	17°54	22°11	8°12	26°20	13°14	28°24	13°21	15°R56	14°44	13°22	n.a.	W 3
T 4	2 38 22	8°39'17	2♉39	25°54	19° 9	22°57	8°25	26°17	13°17	28°24	13°20	15°55	14°40	13°29	n.a.	T 4
F 5	2 42 19	9°40'17	17°44	27°26	20°24	23°44	8°39	26°15	13°21	28°24	13°19	15°53	14°37	13°36	n.a.	F 5
S 6	2 46 15	10°41'17	2♊36	28°59	21°40	24°30	8°52	26°12	13°25	28°23	13°18	15°50	14°34	13°42	n.a.	S 6
S 7	2 50 12	11°42'20	17° 7	0♏31	22°55	25°17	9° 6	26°10	13°28	28°23	13°17	15°46	14°31	13°49	n.a.	S 7
M 8	2 54 8	12°43'23	1♋14	2° 4	24°10	26° 4	9°19	26° 7	13°32	28°23	13°16	15°42	14°28	13°55	n.a.	M 8
T 9	2 58 5	13°44'27	14°52	3°37	25°26	26°50	9°33	26° 4	13°36	28°23	13°15	15°39	14°25	14° 2	n.a.	T 9
W10	3 2 1	14°45'33	28° 2	5°10	26°41	27°37	9°47	26° 1	13°40	28°23	13°14	15°36	14°21	14° 9	n.a.	W10
T 11	3 5 58	15°46'39	10♌47	6°43	27°56	28°24	10° 0	25°58	13°43	28°23	13°13	15°D35	14°18	14°15	n.a.	T 11
F 12	3 9 55	16°47'47	23°11	8°17	29°11	29°10	10°14	25°54	13°47	28°23	13°12	15°35	14°15	14°22	n.a.	F 12
S 13	3 13 51	17°48'56	5♍18	9°50	0♐27	29°57	10°27	25°51	13°51	28°D23	13°11	15°36	14°12	14°29	n.a.	S 13
S 14	3 17 48	18°50'05	17°13	11°24	1°42	0♑44	10°41	25°48	13°54	28°23	13°10	15°38	14° 9	14°35	n.a.	S 14
M15	3 21 44	19°51'16	29° 1	12°57	2°57	1°31	10°54	25°44	13°58	28°23	13° 9	15°40	14° 5	14°42	n.a.	M15
T 16	3 25 41	20°52'27	10♎47	14°31	4°13	2°18	11° 8	25°41	14° 2	28°23	13° 9	15°R41	14° 2	14°49	n.a.	T 16
W17	3 29 37	21°53'39	22°34	16° 5	5°28	3° 4	11°21	25°37	14° 5	28°23	13° 8	15°41	13°59	14°55	n.a.	W17
T 18	3 33 34	22°54'52	4♏27	17°38	6°43	3°51	11°34	25°33	14° 9	28°23	13° 7	15°39	13°56	15° 2	n.a.	T 18
F 19	3 37 30	23°56'06	16°27	19°12	7°58	4°38	11°48	25°30	14°13	28°23	13° 6	15°35	13°53	15° 9	n.a.	F 19
S 20	3 41 27	24°57'20	28°36	20°46	9°14	5°25	12° 1	25°26	14°16	28°23	13° 5	15°29	13°50	15°15	n.a.	S 20
S 21	3 45 24	25°58'35	10♐56	22°21	10°29	6°12	12°15	25°22	14°20	28°24	13° 4	15°22	13°46	15°22	n.a.	S 21
M22	3 49 20	26°59'50	23°27	23°55	11°44	6°59	12°28	25°18	14°24	28°24	13° 4	15°14	13°43	15°28	n.a.	M22
T 23	3 53 17	28° 1'05	6♑10	25°30	12°59	7°46	12°41	25°14	14°27	28°24	13° 3	15° 6	13°40	15°35	n.a.	T 23
W24	3 57 13	29° 2'21	19° 5	27° 5	14°15	8°33	12°55	25°10	14°31	28°25	13° 2	14°59	13°37	15°42	n.a.	W24
T 25	4 1 10	0♐ 3'36	2♒14	28°40	15°30	9°20	13° 8	25° 5	14°34	28°25	13° 1	14°54	13°34	15°48	n.a.	T 25
F 26	4 5 6	1° 4'52	15°36	0♐15	16°45	10° 7	13°21	25° 1	14°38	28°26	13° 1	14°50	13°31	15°55	n.a.	F 26
S 27	4 9 3	2° 6'07	29°13	1°50	18° 0	10°54	13°35	24°57	14°42	28°26	13° 0	14°D49	13°27	16° 2	n.a.	S 27
S 28	4 13 0	3° 7'22	13♓ 6	3°26	19°15	11°41	13°48	24°52	14°45	28°27	12°59	14°49	13°24	16° 8	n.a.	S 28
M29	4 16 56	4° 8'37	27°15	5° 2	20°31	12°28	14° 1	24°48	14°49	28°27	12°59	14°51	13°21	16°15	n.a.	M29
T 30	4 20 53	5♐ 9'52	11♈40	6♐38	21♐46	13♑15	14♏14	24♊43	14♏52	28♒28	12♈58	14°R51	13♈18	16♎22	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s32	7s12	2s30	7s 7	1n23	16s39	0s 1	24s42	1s20	13s31	0n47	23n 1	0s39	15s43	0n15	13s24	1s19	9s42	16s22	6n20	5n55	5s 7		n.a.
T 2	13 53	0 7	1 13	7 47	1 17	17 4	0 4	24 46	1 20	13 35	0 47	23 1	0 39	15 44	0 15	13 24	1 19	9 43	16 22	6 20	5 53	5 10		n.a.
W 3	14 13	7n 6	0n 9	8 28	1 10	17 27	0 6	24 49	1 20	13 40	0 47	23 1	0 39	15 45	0 15	13 24	1 19	9 43	16 21	6 20	5 52	5 13		n.a.
T 4	14 33	13 57	1 31	9 8	1 3	17 51	0 9	24 51	1 20	13 44	0 47	23 1	0 39	15 46	0 15	13 24	1 19	9 43	16 21	6 20	5 51	5 17		n.a.
F 5	14 53	19 58	2 46	9 48	0 57	18 14	0 11	24 54	1 20	13 48	0 47	23 1	0 39	15 47	0 15	13 24	1 19	9 43	16 21	6 19	5 50	5 20		n.a.
S 6	15 12	24 40	3 49	10 27	0 50	18 36	0 13	24 56	1 20	13 53	0 47	23 1	0 39	15 48	0 15	13 24	1 19	9 44	16 21	6 18	5 48	5 24		n.a.
S 7	15 31	27 39	4 36	11 7	0 43	18 58	0 16	24 57	1 20	13 57	0 47	23 1	0 39	15 49	0 15	13 24	1 19	9 44	16 21	6 16	5 47	5 27		n.a.
M 8	15 50	28 46	5 4	11 46	0 36	19 19	0 18	24 59	1 20	14 2	0 47	23 1	0 39	15 51	0 15	13 24	1 19	9 44	16 20	6 15	5 46	5 31		n.a.
T 9	16 9	28 4	5 14	12 24	0 29	19 40	0 21	25 0	1 20	14 6	0 47	23 1	0 39	15 52	0 15	13 24	1 19	9 44	16 20	6 14	5 45	5 34		n.a.
W10	16 27	25 48	5 7	13 3	0 22	20 1	0 23	25 1	1 20	14 11	0 46	23 1	0 38	15 53	0 15	13 24	1 19	9 44	16 20	6 13	5 43	5 37		n.a.
T 11	16 45	22 17	4 44	13 40	0 16	20 20	0 26	25 2	1 20	14 15	0 46	23 1	0 38	15 54	0 15	13 24	1 19	9 45	16 20	6 12	5 42	5 41		n.a.
F 12	17 3	17 51	4 9	14 17	0 9	20 40	0 28	25 2	1 20	14 19	0 46	23 1	0 38	15 55	0 15	13 24	1 19	9 45	16 20	6 12	5 41	5 44		n.a.
S 13	17 20	12 49	3 23	14 54	0 2	20 58	0 30	25 2	1 19	14 24	0 46	23 0	0 38	15 56	0 15	13 24	1 19	9 45	16 19	6 13	5 40	5 48		n.a.
S 14	17 37	7 24	2 30	15 30	0s 5	21 16	0 33	25 2	1 19	14 28	0 46	23 0	0 38	15 57	0 15	13 24	1 19	9 45	16 19	6 13	5 38	5 51		n.a.
M15	17 54	1 46	1 30	16 5	0 11	21 33	0 35	25 1	1 19	14 32	0 46	23 0	0 38	15 58	0 15	13 24	1 19	9 45	16 19	6 14	5 37	5 54		n.a.
T 16	18 11	3s54	0 27	16 40	0 18	21 50	0 37	25 1	1 19	14 36	0 46	23 0	0 38	16 0	0 15	13 24	1 19	9 45	16 19	6 14	5 36	5 58		n.a.
W17	18 27	9 28	0s38	17 14	0 25	22 6	0 39	24 59	1 19	14 41	0 46	23 0	0 38	16 1	0 15	13 24	1 19	9 45	16 19	6 14	5 35	6 1		n.a.
T 18	18 43	14 43	1 41	17 47	0 31	22 22	0 42	24 58	1 19	14 45	0 46	23 0	0 38	16 2	0 15	13 24	1 19	9 45	16 18	6 14	5 33	6 5		n.a.
F 19	18 58	19 29	2 40	18 19	0 37	22 37	0 44	24 56	1 19	14 49	0 46	23 0	0 38	16 3	0 15	13 24	1 19	9 46	16 18	6 12	5 32	6 8		n.a.
S 20	19 13	23 31	3 32	18 51	0 43	22 51	0 46	24 54	1 19	14 53	0 46	23 0	0 38	16 4	0 15	13 24	1 19	9 46	16 18	6 10	5 31	6 11		n.a.
S 21	19 28	26 33	4 15	19 22	0 49	23 4	0 48	24 52	1 18	14 58	0 46	23 0	0 38	16 5	0 15	13 24	1 19	9 46	16 18	6 7	5 30	6 15		n.a.
M22	19 43	28 19	4 47	19 51	0 55	23 17	0 51	24 50	1 18	15 2	0 46	23 0	0 38	16 6	0 15	13 23	1 19	9 46	16 17	6 4	5 28	6 18		n.a.
T 23	19 57	28 39	5 5	20 20	1 1	23 29	0 53	24 47	1 18	15 6	0 46	23 0	0 38	16 7	0 15	13 23	1 19	9 46	16 17	6 1	5 27	6 22		n.a.
W24	20 10	27 25	5 8	20 48	1 7	23 41	0 55	24 44	1 18	15 10	0 46	23 0	0 38	16 8	0 15	13 23	1 18	9 46	16 17	5 58	5 26	6 25		n.a.
T 25	20 24	24 40	4 55	21 16	1 12	23 51	0 57	24 40	1 18	15 14	0 46	23 0	0 37	16 9	0 15	13 23	1 18	9 46	16 17	5 56	5 25	6 29		n.a.
F 26	20 37	20 34	4 26	21 42	1 17	24 1	0 59	24 36	1 17	15 18	0 46	23 0	0 37	16 10	0 15	13 23	1 18	9 46	16 16	5 55	5 23	6 32		n.a.
S 27	20 49	15 19	3 41	22 7	1 22	24 10	1 1	24 32	1 17	15 22	0 46	23 0	0 37	16 12	0 15	13 22	1 18	9 46	16 16	5 54	5 22	6 35		n.a.
S 28	21 1	9 13	2 43	22 30	1 27	24 19	1 3	24 28	1 17	15 26	0 45	22 59	0 37	16 13	0 15	13 22	1 18	9 46	16 16	5 54	5 21	6 39		n.a.
M29	21 13	2 32	1 34	22 53	1 32	24 27	1 5	24 24	1 17	15 30	0 45	22 59	0 37	16 14	0 15	13 22	1 18	9 46	16 15	5 55	5 20	6 42		n.a.
T 30	21s24	4n24	0s17	23s15	1s36	24s33	1s 6	24s19	1s17	15s34	0n45	22n59	0s37	16s15	0n15	13s22	1s18	9s46	16s15	5n55	5n18	6s46		n.a.

Julian Day Number = 1678627.5, Delta T = 03h16m41s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°41'01, Lahiri = - 5°34'00 Julian Calendar 1 Nov. 118 BCE == Greg. Calendar 29 Oct. 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 118 BCE
geocentric

DECEMBER 118 BCE (-117) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 24 49	6♐11'07	26♈17	8♐15	23♐ 1	14♉ 2	14♏27	24°R39	14♏56	28♒28	12°R57	14°R51	13♈15	16♎28	n.a.	W 1
T 2	4 28 46	7°12'21	11♉ 2	9°52	24°16	14°49	14°40	24♊34	14°59	28°29	12♈57	14♈48	13°11	16°35	n.a.	T 2
F 3	4 32 42	8°13'35	25°48	11°29	25°31	15°36	14°53	24°30	15° 3	28°30	12°56	14°43	13° 8	16°42	n.a.	F 3
S 4	4 36 39	9°14'50	10♊29	13° 7	26°46	16°23	15° 6	24°25	15° 6	28°30	12°56	14°36	13° 5	16°48	n.a.	S 4
S 5	4 40 35	10°16'04	24°56	14°44	28° 1	17°10	15°19	24°20	15°10	28°31	12°55	14°26	13° 2	16°55	n.a.	S 5
M 6	4 44 32	11°17'18	9♋ 3	16°23	29°16	17°57	15°32	24°16	15°13	28°32	12°54	14°17	12°59	17° 2	n.a.	M 6
T 7	4 48 29	12°18'32	22°45	18° 1	0♉31	18°44	15°45	24°11	15°16	28°33	12°54	14° 7	12°56	17° 8	n.a.	T 7
W 8	4 52 25	13°19'46	6♌ 0	19°40	1°46	19°31	15°58	24° 6	15°20	28°34	12°53	13°59	12°52	17°15	n.a.	W 8
T 9	4 56 22	14°21'00	18°50	21°19	3° 1	20°18	16°11	24° 1	15°23	28°34	12°53	13°54	12°49	17°21	n.a.	T 9
F 10	5 0 18	15°22'14	1♍18	22°59	4°16	21° 5	16°23	23°56	15°26	28°35	12°53	13°50	12°46	17°28	n.a.	F 10
S 11	5 4 15	16°23'28	13°27	24°38	5°31	21°52	16°36	23°51	15°30	28°36	12°52	13°D49	12°43	17°35	n.a.	S 11
S 12	5 8 11	17°24'42	25°23	26°18	6°46	22°39	16°49	23°46	15°33	28°37	12°52	13°49	12°40	17°41	n.a.	S 12
M13	5 12 8	18°25'55	7♎12	27°58	8° 1	23°25	17° 1	23°42	15°36	28°38	12°51	13°50	12°37	17°48	n.a.	M13
T 14	5 16 4	19°27'09	18°58	29°38	9°16	24°12	17°14	23°37	15°40	28°39	12°51	13°R50	12°33	17°55	n.a.	T 14
W15	5 20 1	20°28'22	0♏47	1♉18	10°31	24°59	17°26	23°32	15°43	28°40	12°51	13°48	12°30	18° 1	n.a.	W15
T 16	5 23 58	21°29'35	12°44	2°58	11°46	25°46	17°39	23°27	15°46	28°41	12°50	13°44	12°27	18° 8	n.a.	T 16
F 17	5 27 54	22°30'47	24°52	4°38	13° 1	26°33	17°51	23°22	15°49	28°43	12°50	13°38	12°24	18°15	n.a.	F 17
S 18	5 31 51	23°31'59	7♐13	6°18	14°16	27°20	18° 3	23°17	15°52	28°44	12°50	13°28	12°21	18°21	n.a.	S 18
S 19	5 35 47	24°33'10	19°50	7°57	15°31	28° 7	18°16	23°12	15°55	28°45	12°49	13°16	12°17	18°28	n.a.	S 19
M20	5 39 44	25°34'21	2♉41	9°36	16°46	28°54	18°28	23° 7	15°58	28°46	12°49	13° 3	12°14	18°35	n.a.	M20
T 21	5 43 40	26°35'31	15°46	11°13	18° 0	29°41	18°40	23° 2	16° 1	28°47	12°49	12°50	12°11	18°41	n.a.	T 21
W22	5 47 37	27°36'40	29° 4	12°49	19°15	0♒28	18°52	22°57	16° 4	28°49	12°49	12°38	12° 8	18°48	n.a.	W22
T 23	5 51 34	28°37'49	12♒32	14°24	20°30	1°15	19° 4	22°52	16° 7	28°50	12°49	12°29	12° 5	18°55	n.a.	T 23
F 24	5 55 30	29°38'56	26°10	15°57	21°45	2° 2	19°16	22°47	16°10	28°51	12°48	12°22	12° 2	19° 1	n.a.	F 24
S 25	5 59 27	0♉40'02	9♓56	17°28	22°59	2°48	19°28	22°42	16°13	28°53	12°48	12°18	11°58	19° 8	n.a.	S 25
S 26	6 3 23	1°41'06	23°49	18°56	24°14	3°35	19°40	22°37	16°16	28°54	12°48	12°17	11°55	19°14	n.a.	S 26
M27	6 7 20	2°42'10	7♈50	20°20	25°29	4°22	19°51	22°32	16°19	28°56	12°48	12°17	11°52	19°21	n.a.	M27
T 28	6 11 16	3°43'12	21°58	21°41	26°43	5° 9	20° 3	22°28	16°22	28°57	12°48	12°17	11°49	19°28	n.a.	T 28
W29	6 15 13	4°44'12	6♉12	22°57	27°58	5°56	20°14	22°23	16°25	28°59	12°48	12°15	11°46	19°34	n.a.	W29
T 30	6 19 9	5°45'12	20°31	24° 7	29°13	6°42	20°26	22°18	16°27	29° 0	12°48	12°11	11°43	19°41	n.a.	T 30
F 31	6 23 6	6♉46'10	4♊50	25♉12	0♒27	7♒29	20♏37	22♊13	16♏30	29♒ 2	12°D48	12♈ 4	11♈39	19♎48	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	21s35	11n12	1n 1	23s35	1s40	24s40	1s 8	24s14	1s16	15s38	0n45	22n59	0s37	16s16	0n15	13s22	1s18	9s46	16s15	5n55	5n17	6s49			n.a.
T 2	21 46	17 27	2 16	23 54	1 44	24 45	1 10	24 8	1 16	15 42	0 45	22 59	0 37	16 17	0 15	13 21	1 18	9 46	16 15	5 54	5 16	6 52			n.a.
F 3	21 56	22 41	3 22	24 12	1 48	24 50	1 12	24 3	1 16	15 46	0 45	22 59	0 37	16 18	0 15	13 21	1 18	9 46	16 14	5 52	5 15	6 56			n.a.
S 4	22 5	26 27	4 13	24 28	1 51	24 54	1 13	23 57	1 16	15 50	0 45	22 59	0 37	16 19	0 15	13 21	1 18	9 46	16 14	5 49	5 13	6 59			n.a.
S 5	22 15	28 25	4 48	24 43	1 54	24 57	1 15	23 50	1 15	15 54	0 45	22 59	0 37	16 20	0 15	13 20	1 18	9 46	16 14	5 45	5 12	7 2			n.a.
M 6	22 23	28 27	5 4	24 57	1 57	24 59	1 17	23 44	1 15	15 57	0 45	22 59	0 37	16 21	0 15	13 20	1 18	9 46	16 13	5 41	5 11	7 6			n.a.
T 7	22 32	26 44	5 2	25 9	1 59	25 1	1 18	23 37	1 15	16 1	0 45	22 58	0 36	16 22	0 15	13 20	1 18	9 46	16 13	5 38	5 10	7 9			n.a.
W 8	22 39	23 33	4 43	25 19	2 1	25 2	1 20	23 30	1 14	16 5	0 45	22 58	0 36	16 23	0 15	13 19	1 18	9 45	16 13	5 35	5 8	7 13			n.a.
T 9	22 47	19 19	4 11	25 28	2 3	25 2	1 21	23 23	1 14	16 9	0 45	22 58	0 36	16 24	0 15	13 19	1 18	9 45	16 12	5 33	5 7	7 16			n.a.
F 10	22 54	14 21	3 27	25 36	2 4	25 1	1 22	23 15	1 14	16 12	0 45	22 58	0 36	16 25	0 15	13 19	1 18	9 45	16 12	5 31	5 6	7 19			n.a.
S 11	23 0	8 57	2 35	25 41	2 5	24 59	1 24	23 7	1 13	16 16	0 45	22 58	0 36	16 26	0 15	13 18	1 18	9 45	16 12	5 31	5 5	7 23			n.a.
S 12	23 6	3 20	1 37	25 45	2 6	24 57	1 25	22 59	1 13	16 20	0 45	22 58	0 36	16 27	0 15	13 18	1 18	9 45	16 11	5 31	5 3	7 26			n.a.
M13	23 12	2s21	0 35	25 47	2 6	24 54	1 26	22 51	1 13	16 23	0 45	22 58	0 36	16 28	0 15	13 18	1 18	9 45	16 11	5 31	5 2	7 30			n.a.
T 14	23 17	7 56	0s27	25 48	2 5	24 50	1 27	22 42	1 12	16 27	0 45	22 58	0 36	16 29	0 15	13 17	1 18	9 45	16 11	5 31	5 1	7 33			n.a.
W15	23 22	13 16	1 29	25 46	2 4	24 46	1 28	22 33	1 12	16 31	0 45	22 57	0 36	16 30	0 15	13 17	1 18	9 44	16 10	5 30	5 0	7 36			n.a.
T 16	23 26	18 11	2 28	25 43	2 2	24 40	1 30	22 24	1 12	16 34	0 45	22 57	0 36	16 31	0 15	13 16	1 18	9 44	16 10	5 29	4 58	7 40			n.a.
F 17	23 30	22 26	3 20	25 38	2 0	24 34	1 30	22 15	1 11	16 38	0 45	22 57	0 35	16 32	0 15	13 16	1 18	9 44	16 10	5 26	4 57	7 43			n.a.
S 18	23 33	25 46	4 4	25 31	1 57	24 27	1 31	22 5	1 11	16 41	0 45	22 57	0 35	16 32	0 15	13 16	1 18	9 44	16 9	5 22	4 56	7 46			n.a.
S 19	23 36	27 55	4 37	25 22	1 54	24 19	1 32	21 56	1 11	16 45	0 45	22 57	0 35	16 33	0 15	13 15	1 18	9 44	16 9	5 18	4 55	7 50			n.a.
M20	23 38	28 37	4 56	25 11	1 49	24 11	1 33	21 46	1 10	16 48	0 45	22 57	0 35	16 34	0 15	13 15	1 18	9 43	16 9	5 13	4 53	7 53			n.a.
T 21	23 40	27 45	5 1	24 58	1 45	24 2	1 34	21 35	1 10	16 51	0 45	22 57	0 35	16 35	0 15	13 14	1 18	9 43	16 8	5 8	4 52	7 57			n.a.
W22	23 41	25 17	4 49	24 43	1 39	23 52	1 34	21 25	1 10	16 55	0 45	22 56	0 35	16 36	0 15	13 14	1 18	9 43	16 8	5 3	4 51	8 0			n.a.
T 23	23 42	21 24	4 21	24 27	1 32	23 41	1 35	21 14	1 9	16 58	0 45	22 56	0 35	16 37	0 15	13 13	1 18	9 43	16 8	4 59	4 50	8 3			n.a.
F 24	23 43	16 21	3 38	24 9	1 25	23 30	1 35	21 3	1 9	17 1	0 45	22 56	0 35	16 38	0 15	13 13	1 17	9 43	16 7	4 56	4 48	8 7			n.a.
S 25	23 43	10 26	2 42	23 49	1 17	23 18	1 36	20 52	1 8	17 5	0 45	22 56	0 35	16 39	0 15	13 12	1 17	9 42	16 7	4 55	4 47	8 10			n.a.
S 26	23 42	3 57	1 36	23 28	1 8	23 5	1 36	20 40	1 8	17 8	0 45	22 56	0 34	16 39	0 15	13 12	1 17	9 42	16 7	4 54	4 46	8 13			n.a.
M27	23 41	2n47	0 24	23 6	0 57	22 52	1 36	20 29	1 8	17 11	0 45	22 56	0 34	16 40	0 15	13 11	1 17	9 42	16 6	4 54	4 45	8 17			n.a.
T 28	23 40	9 26	0n51	22 42	0 46	22 38	1 37	20 17	1 7	17 14	0 45	22 56	0 34	16 41	0 15	13 11	1 17	9 41	16 6	4 54	4 43	8 20			n.a.
W29	23 38	15 40	2 3	22 18	0 34	22 23	1 37	20 5	1 7	17 17	0 45	22 55	0 34	16 42	0 15	13 10	1 17	9 41	16 6	4 54	4 42	8 23			n.a.
T 30	23 35	21 5	3 7	21 53	0 22	22 8	1 37	19 53	1 6	17 20	0 45	22 55	0 34	16 43	0 15	13 10	1 17	9 41	16 5	4 52	4 41	8 27			n.a.
F 31	23s32	25n16	4n 0	21s28	0s 8	21s51	1s37	19s40	1s 6	17s23	0n45	22n55	0s34	16s43	0n15	13s 9	1s17	9s40	16s 5	4n49	4n40	8s30			n.a.

Julian Day Number = 1678657.5, Delta T = 03h16m40s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'57, Lahiri = - 5°33'56 Julian Calendar 1 Dec. 118 BCE == Greg. Calendar 28 Nov. 118 BCE

The year -117 astronomical counting style corresponds to year 118 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

JANUARY 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 3	7♉47'07	19♊ 5	26♉ 9	1♒42	8♒16	20♏48	22°R 9	16♏33	29♒ 3	12♈48	11°R54	11♈36	19♎54	n.a.	S 1
S 2	6 30 59	8°48'03	3♋11	26°59	2°56	9° 2	21° 0	22♊ 4	16°35	29° 5	12°48	11♈42	11°33	20° 1	n.a.	S 2
M 3	6 34 56	9°48'57	17° 2	27°40	4°11	9°49	21°11	21°59	16°38	29° 6	12°48	11°29	11°30	20° 8	n.a.	M 3
T 4	6 38 52	10°49'51	0♌35	28°12	5°25	10°35	21°22	21°55	16°40	29° 8	12°48	11°16	11°27	20°14	n.a.	T 4
W 5	6 42 49	11°50'43	13°46	28°34	6°40	11°22	21°33	21°50	16°43	29°10	12°48	11° 5	11°23	20°21	n.a.	W 5
T 6	6 46 45	12°51'34	26°34	28°46	7°54	12° 9	21°44	21°46	16°45	29°11	12°48	10°56	11°20	20°28	n.a.	T 6
F 7	6 50 42	13°52'24	9♍ 3	28°R46	9° 8	12°55	21°55	21°41	16°48	29°13	12°48	10°50	11°17	20°34	n.a.	F 7
S 8	6 54 39	14°53'12	21°14	28°36	10°23	13°42	22° 5	21°37	16°50	29°15	12°49	10°47	11°14	20°41	n.a.	S 8
S 9	6 58 35	15°54'00	3♎12	28°14	11°37	14°28	22°16	21°33	16°52	29°16	12°49	10°46	11°11	20°48	n.a.	S 9
M10	7 2 32	16°54'46	15° 1	27°42	12°51	15°15	22°26	21°28	16°55	29°18	12°49	10°46	11° 8	20°54	n.a.	M10
T 11	7 6 28	17°55'31	26°49	27° 1	14° 5	16° 1	22°37	21°24	16°57	29°20	12°49	10°46	11° 4	21° 1	n.a.	T 11
W12	7 10 25	18°56'15	8♏40	26°10	15°20	16°47	22°47	21°20	16°59	29°22	12°50	10°44	11° 1	21° 7	n.a.	W12
T 13	7 14 21	19°56'58	20°39	25°13	16°34	17°34	22°57	21°16	17° 1	29°24	12°50	10°41	10°58	21°14	n.a.	T 13
F 14	7 18 18	20°57'39	2♐52	24°10	17°48	18°20	23° 7	21°12	17° 3	29°26	12°50	10°34	10°55	21°21	n.a.	F 14
S 15	7 22 14	21°58'20	15°21	23° 2	19° 2	19° 6	23°17	21° 8	17° 6	29°27	12°50	10°25	10°52	21°27	n.a.	S 15
S 16	7 26 11	22°58'58	28° 9	21°53	20°16	19°53	23°27	21° 4	17° 8	29°29	12°51	10°14	10°49	21°34	n.a.	S 16
M17	7 30 8	23°59'36	11♑17	20°44	21°30	20°39	23°37	21° 1	17°10	29°31	12°51	10° 2	10°45	21°41	n.a.	M17
T 18	7 34 4	25° 0'12	24°44	19°36	22°44	21°25	23°47	20°57	17°12	29°33	12°52	9°49	10°42	21°47	n.a.	T 18
W19	7 38 1	26° 0'46	8♒27	18°32	23°58	22°11	23°56	20°53	17°13	29°35	12°52	9°37	10°39	21°54	n.a.	W19
T 20	7 41 57	27° 1'18	22°22	17°32	25°12	22°57	24° 6	20°50	17°15	29°37	12°52	9°27	10°36	22° 1	n.a.	T 20
F 21	7 45 54	28° 1'48	6♓25	16°37	26°25	23°44	24°15	20°46	17°17	29°39	12°53	9°21	10°33	22° 7	n.a.	F 21
S 22	7 49 50	29° 2'17	20°32	15°49	27°39	24°30	24°24	20°43	17°19	29°41	12°53	9°17	10°29	22°14	n.a.	S 22
S 23	7 53 47	0♒ 2'43	4♈41	15° 8	28°53	25°16	24°33	20°40	17°20	29°43	12°54	9°D16	10°26	22°21	n.a.	S 23
M24	7 57 43	1° 3'08	18°49	14°35	0♓ 7	26° 2	24°42	20°37	17°22	29°45	12°54	9°16	10°23	22°27	n.a.	M24
T 25	8 1 40	2° 3'30	2♉55	14° 8	1°20	26°48	24°51	20°33	17°24	29°47	12°55	9°R16	10°20	22°34	n.a.	T 25
W26	8 5 37	3° 3'50	16°59	13°49	2°34	27°33	25° 0	20°30	17°25	29°49	12°55	9°15	10°17	22°41	n.a.	W26
T 27	8 9 33	4° 4'08	0♊58	13°38	3°47	28°19	25° 8	20°28	17°27	29°51	12°56	9°12	10°14	22°47	n.a.	T 27
F 28	8 13 30	5° 4'24	14°53	13°D33	5° 1	29° 5	25°17	20°25	17°28	29°53	12°57	9° 7	10°10	22°54	n.a.	F 28
S 29	8 17 26	6° 4'38	28°41	13°35	6°14	29°51	25°25	20°22	17°30	29°56	12°57	8°59	10° 7	23° 1	n.a.	S 29
S 30	8 21 23	7° 4'50	12♋19	13°44	7°28	0♓37	25°33	20°19	17°31	29°58	12°58	8°49	10° 4	23° 7	n.a.	S 30
M31	8 25 19	8♒ 5'00	25♋45	13♉58	8♓41	1♓22	25♏42	20♊17	17♏32	29♒59	12♈58	8♈38	10♈ 1	23♎14	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s29	27n51	4n37	21s 3	0n 7	21s35	1s37	19s28	1s 5	17s26	0n45	22n55	0s34	16s44	0n15	13s 8	1s17	9s40	16s 5	4n45	4n38	8s33		n.a.
S 2	23 25	28 37	4 57	20 38	0 23	21 17	1 37	19 15	1 5	17 29	0 45	22 55	0 34	16 45	0 15	13 8	1 17	9 40	16 4	4 41	4 37	8 37		n.a.
M 3	23 21	27 33	4 59	20 13	0 39	20 59	1 36	19 2	1 5	17 32	0 45	22 55	0 33	16 46	0 15	13 7	1 17	9 39	16 4	4 35	4 36	8 40		n.a.
T 4	23 16	24 52	4 43	19 50	0 56	20 41	1 36	18 48	1 4	17 35	0 45	22 54	0 33	16 46	0 15	13 7	1 17	9 39	16 4	4 30	4 35	8 44		n.a.
W 5	23 11	20 55	4 13	19 29	1 13	20 22	1 36	18 35	1 4	17 38	0 45	22 54	0 33	16 47	0 15	13 6	1 17	9 39	16 3	4 26	4 33	8 47		n.a.
T 6	23 5	16 6	3 31	19 9	1 31	20 2	1 35	18 21	1 3	17 41	0 45	22 54	0 33	16 48	0 15	13 5	1 17	9 38	16 3	4 23	4 32	8 50		n.a.
F 7	22 59	10 43	2 39	18 52	1 49	19 42	1 35	18 8	1 3	17 44	0 45	22 54	0 33	16 49	0 15	13 5	1 17	9 38	16 2	4 20	4 31	8 54		n.a.
S 8	22 52	5 4	1 42	18 37	2 7	19 21	1 34	17 54	1 2	17 46	0 45	22 54	0 33	16 49	0 15	13 4	1 17	9 38	16 2	4 19	4 30	8 57		n.a.
S 9	22 45	0s40	0 40	18 24	2 24	19 0	1 34	17 40	1 2	17 49	0 45	22 54	0 33	16 50	0 15	13 3	1 17	9 37	16 2	4 19	4 28	9 0		n.a.
M10	22 38	6 20	0s23	18 15	2 40	18 38	1 33	17 25	1 1	17 52	0 45	22 54	0 32	16 51	0 15	13 3	1 17	9 37	16 1	4 18	4 27	9 4		n.a.
T 11	22 30	11 45	1 24	18 8	2 55	18 15	1 32	17 11	1 1	17 55	0 45	22 53	0 32	16 51	0 15	13 2	1 17	9 36	16 1	4 18	4 26	9 7		n.a.
W12	22 21	16 47	2 22	18 4	3 9	17 52	1 31	16 56	1 0	17 57	0 45	22 53	0 32	16 52	0 15	13 1	1 17	9 36	16 1	4 18	4 25	9 10		n.a.
T 13	22 13	21 14	3 15	18 3	3 21	17 29	1 30	16 42	1 0	18 0	0 45	22 53	0 32	16 52	0 15	13 1	1 17	9 36	16 0	4 16	4 23	9 14		n.a.
F 14	22 3	24 52	3 59	18 4	3 31	17 5	1 29	16 27	0 59	18 2	0 45	22 53	0 32	16 53	0 15	13 0	1 17	9 35	16 0	4 14	4 22	9 17		n.a.
S 15	21 54	27 25	4 33	18 8	3 39	16 41	1 28	16 12	0 59	18 5	0 45	22 53	0 32	16 54	0 15	12 59	1 17	9 35	16 0	4 10	4 21	9 20		n.a.
S 16	21 44	28 36	4 54	18 13	3 44	16 16	1 27	15 56	0 58	18 7	0 45	22 53	0 32	16 54	0 15	12 59	1 17	9 34	15 59	4 6	4 20	9 24		n.a.
M17	21 33	28 13	5 1	18 21	3 47	15 51	1 26	15 41	0 58	18 10	0 45	22 53	0 31	16 55	0 15	12 58	1 17	9 34	15 59	4 1	4 18	9 27		n.a.
T 18	21 22	26 11	4 51	18 30	3 48	15 25	1 24	15 26	0 57	18 12	0 45	22 53	0 31	16 55	0 15	12 57	1 17	9 33	15 59	3 56	4 17	9 30		n.a.
W19	21 11	22 36	4 24	18 41	3 46	14 59	1 23	15 10	0 57	18 15	0 45	22 53	0 31	16 56	0 15	12 57	1 17	9 33	15 58	3 51	4 16	9 34		n.a.
T 20	21 0	17 42	3 42	18 52	3 43	14 33	1 22	14 54	0 56	18 17	0 45	22 52	0 31	16 56	0 15	12 56	1 17	9 32	15 58	3 47	4 14	9 37		n.a.
F 21	20 47	11 48	2 45	19 4	3 38	14 6	1 20	14 38	0 56	18 19	0 45	22 52	0 31	16 57	0 15	12 55	1 17	9 32	15 58	3 45	4 13	9 40		n.a.
S 22	20 35	5 17	1 38	19 17	3 31	13 39	1 18	14 22	0 55	18 21	0 45	22 52	0 31	16 57	0 15	12 54	1 17	9 31	15 57	3 43	4 12	9 43		n.a.
S 23	20 22	1n31	0 24	19 30	3 22	13 11	1 17	14 6	0 55	18 24	0 45	22 52	0 31	16 58	0 15	12 54	1 17	9 31	15 57	3 43	4 11	9 47		n.a.
M24	20 9	8 14	0n51	19 43	3 13	12 44	1 15	13 50	0 54	18 26	0 45	22 52	0 30	16 58	0 15	12 53	1 17	9 30	15 57	3 43	4 9	9 50		n.a.
T 25	19 56	14 32	2 2	19 56	3 2	12 16	1 13	13 34	0 54	18 28	0 45	22 52	0 30	16 59	0 15	12 52	1 17	9 30	15 56	3 43	4 8	9 53		n.a.
W26	19 42	20 4	3 6	20 9	2 51	11 47	1 11	13 17	0 53	18 30	0 45	22 52	0 30	16 59	0 15	12 52	1 17	9 29	15 56	3 42	4 7	9 57		n.a.
T 27	19 27	24 29	3 59	20 22	2 39	11 18	1 9	13 1	0 53	18 32	0 45	22 52	0 30	17 0	0 15	12 51	1 17	9 29	15 56	3 41	4 6	10 0		n.a.
F 28	19 13	27 26	4 37	20 35	2 27	10 49	1 7	12 44	0 52	18 34	0 45	22 52	0 30	17 0	0 15	12 50	1 17	9 28	15 55	3 39	4 4	10 3		n.a.
S 29	18 58	28 41	4 59	20 47	2 14	10 20	1 5	12 27	0 51	18 36	0 45	22 52	0 30	17 0	0 15	12 49	1 17	9 28	15 55	3 36	4 3	10 7		n.a.
S 30	18 43	28 10	5 3	20 59	2 2	9 51	1 3	12 10	0 51	18 38	0 45	22 52	0 30	17 1	0 15	12 48	1 17	9 27	15 55	3 32	4 2	10 10		n.a.
M31	18s27	25n59	4n50	21s10	1n49	9s21	1s 1	11s53	0s50	18s40	0n45	22n52	0s29	17s 1	0n15	12s48	1s17	9s27	15s54	3n28	4n 1	10s13		n.a.

Julian Day Number = 1678688.5, Delta T = 03h16m39s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'52, Lahiri = - 5°33'52 Julian Calendar 1 Jan. 117 BCE == Greg. Calendar 29 Dec. 118 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

FEBRUARY 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 29 16	9♒ 5'07	8♌57	14♉18	9♓54	2♓ 8	25♏50	20°R14	17♏34	0♓ 2	12♈59	8°R27	9♈58	23♎20	n.a.	T 1
W 2	8 33 12	10° 5'13	21°53	14°44	11° 7	2°54	25°57	20♊12	17°35	0° 4	13° 0	8♈18	9°55	23°27	n.a.	W 2
T 3	8 37 9	11° 5'17	4♍31	15°14	12°20	3°39	26° 5	20°10	17°36	0° 6	13° 1	8°11	9°51	23°34	n.a.	T 3
F 4	8 41 6	12° 5'19	16°53	15°49	13°33	4°25	26°13	20° 8	17°37	0° 8	13° 1	8° 6	9°48	23°40	n.a.	F 4
S 5	8 45 2	13° 5'19	29° 2	16°28	14°46	5°10	26°20	20° 6	17°38	0°11	13° 2	8° 4	9°45	23°47	n.a.	S 5
S 6	8 48 59	14° 5'17	10♎59	17°11	15°59	5°56	26°27	20° 4	17°39	0°13	13° 3	8°D 3	9°42	23°54	n.a.	S 6
M 7	8 52 55	15° 5'13	22°49	17°58	17°12	6°41	26°34	20° 2	17°40	0°15	13° 4	8° 4	9°39	24° 0	n.a.	M 7
T 8	8 56 52	16° 5'08	4♏37	18°48	18°25	7°27	26°41	20° 0	17°41	0°17	13° 4	8° 5	9°35	24° 7	n.a.	T 8
W 9	9 0 48	17° 5'01	16°28	19°41	19°38	8°12	26°48	19°59	17°42	0°19	13° 5	8°R 6	9°32	24°14	n.a.	W 9
T 10	9 4 45	18° 4'52	28°28	20°38	20°50	8°57	26°55	19°57	17°42	0°22	13° 6	8° 5	9°29	24°20	n.a.	T 10
F 11	9 8 41	19° 4'42	10♐41	21°37	22° 3	9°43	27° 1	19°56	17°43	0°24	13° 7	8° 3	9°26	24°27	n.a.	F 11
S 12	9 12 38	20° 4'29	23°12	22°39	23°15	10°28	27° 8	19°55	17°44	0°26	13° 8	7°58	9°23	24°34	n.a.	S 12
S 13	9 16 35	21° 4'15	6♑ 5	23°43	24°28	11°13	27°14	19°53	17°44	0°28	13° 9	7°52	9°20	24°40	n.a.	S 13
M14	9 20 31	22° 3'59	19°21	24°50	25°40	11°58	27°20	19°52	17°45	0°31	13°10	7°44	9°16	24°47	n.a.	M14
T 15	9 24 28	23° 3'41	3♒ 1	25°59	26°53	12°43	27°26	19°51	17°46	0°33	13°10	7°37	9°13	24°54	n.a.	T 15
W16	9 28 24	24° 3'21	17° 2	27°10	28° 5	13°28	27°32	19°51	17°46	0°35	13°11	7°29	9°10	25° 0	n.a.	W16
T 17	9 32 21	25° 2'59	1♓20	28°23	29°17	14°13	27°37	19°50	17°46	0°37	13°12	7°24	9° 7	25° 7	n.a.	T 17
F 18	9 36 17	26° 2'34	15°49	29°38	0♈29	14°58	27°43	19°49	17°47	0°40	13°13	7°20	9° 4	25°14	n.a.	F 18
S 19	9 40 14	27° 2'07	0♈24	0♒55	1°41	15°43	27°48	19°49	17°47	0°42	13°14	7°D18	9° 1	25°20	n.a.	S 19
S 20	9 44 10	28° 1'38	14°57	2°13	2°53	16°28	27°53	19°48	17°47	0°44	13°15	7°18	8°57	25°27	n.a.	S 20
M21	9 48 7	29° 1'07	29°25	3°33	4° 5	17°13	27°58	19°48	17°48	0°47	13°16	7°19	8°54	25°33	n.a.	M21
T 22	9 52 3	0♓ 0'33	13♉44	4°55	5°17	17°57	28° 3	19°48	17°48	0°49	13°17	7°20	8°51	25°40	n.a.	T 22
W23	9 56 0	0°59'57	27°51	6°19	6°28	18°42	28° 8	19°D48	17°48	0°51	13°18	7°R21	8°48	25°47	n.a.	W23
T 24	9 59 57	1°59'19	11♊45	7°44	7°40	19°27	28°12	19°48	17°R48	0°53	13°19	7°21	8°45	25°53	n.a.	T 24
F 25	10 3 53	2°58'38	25°27	9°11	8°52	20°11	28°16	19°48	17°48	0°56	13°21	7°19	8°41	26° 0	n.a.	F 25
S 26	10 7 50	3°57'54	8♋55	10°39	10° 3	20°56	28°21	19°48	17°48	0°58	13°22	7°16	8°38	26° 7	n.a.	S 26
S 27	10 11 46	4°57'08	22°10	12° 9	11°14	21°40	28°24	19°49	17°48	1° 0	13°23	7°11	8°35	26°13	n.a.	S 27
M28	10 15 43	5°56'20	5♌11	13°40	12°26	22°25	28°28	19°49	17°47	1° 2	13°24	7° 6	8°32	26°20	n.a.	M28
T 29	10 19 39	6♓55'30	18♌ 0	15♒12	13♈37	23♓ 9	28♏32	19♊50	17♏47	1♓ 5	13♈25	7♈ 1	8♈29	26♎27	n.a.	T 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s11	22n26	4n22	21s20	1n36	8s51	0s59	11s36	0s50	18s42	0n45	22n52	0s29	17s 2	0n15	12s47	1s17	9s26	15s54	3n23	3n59	10s16		n.a.
W 2	17 55	17 51	3 41	21 30	1 24	8 21	0 56	11 19	0 49	18 44	0 45	22 52	0 29	17 2	0 15	12 46	1 17	9 26	15 54	3 20	3 58	10 20		n.a.
T 3	17 39	12 35	2 50	21 39	1 12	7 50	0 54	11 2	0 49	18 46	0 45	22 52	0 29	17 2	0 15	12 45	1 17	9 25	15 53	3 17	3 57	10 23		n.a.
F 4	17 22	6 56	1 51	21 47	0 59	7 20	0 51	10 45	0 48	18 47	0 45	22 52	0 29	17 3	0 15	12 45	1 17	9 24	15 53	3 15	3 56	10 26		n.a.
S 5	17 5	1 8	0 48	21 54	0 47	6 49	0 49	10 27	0 47	18 49	0 46	22 52	0 29	17 3	0 15	12 44	1 17	9 24	15 53	3 14	3 54	10 30		n.a.
S 6	16 47	4s38	0s16	22 0	0 36	6 18	0 46	10 10	0 47	18 51	0 46	22 52	0 29	17 3	0 15	12 43	1 17	9 23	15 52	3 14	3 53	10 33		n.a.
M 7	16 30	10 11	1 19	22 5	0 24	5 47	0 44	9 52	0 46	18 52	0 46	22 52	0 28	17 3	0 15	12 42	1 17	9 23	15 52	3 14	3 52	10 36		n.a.
T 8	16 12	15 22	2 18	22 9	0 13	5 16	0 41	9 35	0 46	18 54	0 46	22 52	0 28	17 4	0 15	12 41	1 17	9 22	15 52	3 15	3 51	10 39		n.a.
W 9	15 54	20 1	3 12	22 12	0 3	4 44	0 38	9 17	0 45	18 55	0 46	22 52	0 28	17 4	0 15	12 41	1 17	9 22	15 52	3 15	3 49	10 43		n.a.
T 10	15 35	23 54	3 58	22 14	0s 8	4 13	0 36	8 59	0 45	18 57	0 46	22 52	0 28	17 4	0 15	12 40	1 17	9 21	15 51	3 15	3 48	10 46		n.a.
F 11	15 16	26 49	4 34	22 15	0 18	3 41	0 33	8 42	0 44	18 58	0 46	22 52	0 28	17 4	0 15	12 39	1 17	9 20	15 51	3 14	3 47	10 49		n.a.
S 12	14 57	28 30	4 58	22 14	0 27	3 10	0 30	8 24	0 43	19 0	0 46	22 52	0 28	17 4	0 15	12 38	1 17	9 20	15 51	3 12	3 45	10 53		n.a.
S 13	14 38	28 42	5 8	22 12	0 37	2 38	0 27	8 6	0 43	19 1	0 46	22 52	0 27	17 5	0 15	12 37	1 17	9 19	15 50	3 9	3 44	10 56		n.a.
M14	14 19	27 16	5 2	22 9	0 46	2 6	0 24	7 48	0 42	19 3	0 46	22 52	0 27	17 5	0 15	12 37	1 17	9 19	15 50	3 6	3 43	10 59		n.a.
T 15	13 59	24 13	4 39	22 5	0 54	1 34	0 21	7 30	0 42	19 4	0 46	22 52	0 27	17 5	0 15	12 36	1 17	9 18	15 50	3 3	3 42	11 2		n.a.
W16	13 39	19 41	3 58	21 59	1 2	1 3	0 18	7 12	0 41	19 5	0 46	22 52	0 27	17 5	0 15	12 35	1 17	9 17	15 50	3 0	3 40	11 6		n.a.
T 17	13 19	13 58	3 2	21 52	1 10	0 31	0 15	6 54	0 40	19 7	0 46	22 52	0 27	17 5	0 15	12 34	1 17	9 17	15 49	2 58	3 39	11 9		n.a.
F 18	12 59	7 24	1 54	21 43	1 17	0n 1	0 12	6 36	0 40	19 8	0 46	22 52	0 27	17 5	0 15	12 33	1 17	9 16	15 49	2 56	3 38	11 12		n.a.
S 19	12 38	0 25	0 37	21 33	1 24	0 33	0 8	6 18	0 39	19 9	0 46	22 52	0 27	17 5	0 15	12 33	1 17	9 16	15 49	2 56	3 37	11 15		n.a.
S 20	12 18	6n36	0n42	21 22	1 31	1 5	0 5	6 0	0 39	19 10	0 46	22 53	0 26	17 5	0 15	12 32	1 17	9 15	15 49	2 56	3 35	11 19		n.a.
M21	11 57	13 13	1 58	21 9	1 37	1 37	0 2	5 41	0 38	19 11	0 46	22 53	0 26	17 5	0 15	12 31	1 17	9 14	15 48	2 56	3 34	11 22		n.a.
T 22	11 36	19 5	3 5	20 55	1 43	2 9	0n 1	5 23	0 37	19 12	0 46	22 53	0 26	17 5	0 15	12 30	1 17	9 14	15 48	2 57	3 33	11 25		n.a.
W23	11 15	23 49	4 1	20 39	1 48	2 40	0 5	5 5	0 37	19 13	0 46	22 53	0 26	17 6	0 15	12 29	1 17	9 13	15 48	2 57	3 32	11 28		n.a.
T 24	10 53	27 6	4 41	20 22	1 53	3 12	0 8	4 47	0 36	19 14	0 46	22 53	0 26	17 6	0 15	12 29	1 17	9 12	15 48	2 57	3 30	11 32		n.a.
F 25	10 32	28 43	5 5	20 3	1 57	3 44	0 12	4 28	0 36	19 15	0 46	22 53	0 26	17 6	0 15	12 28	1 17	9 12	15 47	2 56	3 29	11 35		n.a.
S 26	10 10	28 35	5 12	19 42	2 1	4 15	0 15	4 10	0 35	19 16	0 46	22 53	0 26	17 5	0 15	12 27	1 17	9 11	15 47	2 55	3 28	11 38		n.a.
S 27	9 48	26 49	5 1	19 21	2 5	4 47	0 18	3 52	0 34	19 17	0 46	22 54	0 25	17 5	0 15	12 26	1 17	9 11	15 47	2 53	3 26	11 41		n.a.
M28	9 26	23 38	4 35	18 57	2 8	5 18	0 22	3 34	0 34	19 18	0 46	22 54	0 25	17 5	0 15	12 25	1 17	9 10	15 47	2 51	3 25	11 45		n.a.
T 29	9s 4	19n21	3n56	18s32	2s11	5n49	0n25	3s15	0s33	19s18	0n46	22n54	0s25	17s 5	0n15	12s25	1s17	9s 9	15s46	2n49	3n24	11s48		n.a.

Julian Day Number = 1678719.5, Delta T = 03h16m38s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'48, Lahiri = - 5°33'48 Julian Calendar 1 Feb. 117 BCE == Greg. Calendar 29 Jan. 117 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

MARCH 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 23 36	7♓54'37	0♍35	16♒46	14♈48	23♓54	28♏35	19♊51	17°R47	1♓ 7	13♈26	6°R56	8♈26	26♎33	n.a.	W 1
T 2	10 27 32	8°53'42	12°58	18°22	15°59	24°38	28°38	19°52	17♏47	1° 9	13°27	6♈53	8°22	26°40	n.a.	T 2
F 3	10 31 29	9°52'45	25°10	19°59	17° 9	25°22	28°42	19°52	17°46	1°11	13°28	6°51	8°19	26°47	n.a.	F 3
S 4	10 35 26	10°51'45	7♎11	21°37	18°20	26° 6	28°44	19°53	17°46	1°14	13°30	6°D50	8°16	26°53	n.a.	S 4
S 5	10 39 22	11°50'44	19° 5	23°17	19°31	26°51	28°47	19°55	17°45	1°16	13°31	6°51	8°13	27° 0	n.a.	S 5
M 6	10 43 19	12°49'41	0♏54	24°58	20°41	27°35	28°50	19°56	17°45	1°18	13°32	6°52	8°10	27° 7	n.a.	M 6
T 7	10 47 15	13°48'36	12°42	26°41	21°52	28°19	28°52	19°57	17°44	1°20	13°33	6°54	8° 7	27°13	n.a.	T 7
W 8	10 51 12	14°47'29	24°34	28°25	23° 2	29° 3	28°54	19°59	17°44	1°23	13°34	6°55	8° 3	27°20	n.a.	W 8
T 9	10 55 8	15°46'20	6♐33	0♓11	24°12	29°47	28°56	20° 0	17°43	1°25	13°36	6°57	8° 0	27°27	n.a.	T 9
F 10	10 59 5	16°45'10	18°45	1°58	25°22	0♈31	28°58	20° 2	17°42	1°27	13°37	6°R57	7°57	27°33	n.a.	F 10
S 11	11 3 1	17°43'57	1♑14	3°47	26°32	1°15	29° 0	20° 4	17°41	1°29	13°38	6°56	7°54	27°40	n.a.	S 11
S 12	11 6 58	18°42'43	14° 5	5°37	27°42	1°58	29° 1	20° 6	17°41	1°31	13°39	6°55	7°51	27°47	n.a.	S 12
M13	11 10 55	19°41'27	27°20	7°29	28°52	2°42	29° 2	20° 8	17°40	1°34	13°40	6°53	7°47	27°53	n.a.	M13
T 14	11 14 51	20°40'09	11♒ 1	9°22	0♉ 1	3°26	29° 3	20°10	17°39	1°36	13°42	6°51	7°44	28° 0	n.a.	T 14
W15	11 18 48	21°38'50	25° 8	11°16	1°11	4°10	29° 4	20°12	17°38	1°38	13°43	6°48	7°41	28° 7	n.a.	W15
T 16	11 22 44	22°37'28	9♓37	13°13	2°20	4°53	29° 5	20°15	17°37	1°40	13°44	6°47	7°38	28°13	n.a.	T 16
F 17	11 26 41	23°36'04	24°23	15°10	3°30	5°37	29° 5	20°17	17°36	1°42	13°46	6°46	7°35	28°20	n.a.	F 17
S 18	11 30 37	24°34'38	9♈19	17° 9	4°39	6°20	29° 6	20°19	17°35	1°44	13°47	6°D46	7°32	28°26	n.a.	S 18
S 19	11 34 34	25°33'11	24°17	19°10	5°48	7° 4	29°R 6	20°22	17°33	1°47	13°48	6°46	7°28	28°33	n.a.	S 19
M20	11 38 30	26°31'41	9♉ 9	21°12	6°57	7°47	29° 6	20°25	17°32	1°49	13°49	6°47	7°25	28°40	n.a.	M20
T 21	11 42 27	27°30'09	23°48	23°15	8° 5	8°31	29° 5	20°28	17°31	1°51	13°51	6°48	7°22	28°46	n.a.	T 21
W22	11 46 23	28°28'34	8♊ 9	25°19	9°14	9°14	29° 5	20°31	17°30	1°53	13°52	6°48	7°19	28°53	n.a.	W22
T 23	11 50 20	29°26'58	22°10	27°25	10°22	9°57	29° 4	20°34	17°28	1°55	13°53	6°49	7°16	29° 0	n.a.	T 23
F 24	11 54 17	0♈25'19	5♋50	29°31	11°31	10°40	29° 3	20°37	17°27	1°57	13°55	6°R49	7°12	29° 6	n.a.	F 24
S 25	11 58 13	1°23'38	19°10	1♈39	12°39	11°24	29° 2	20°40	17°26	1°59	13°56	6°48	7° 9	29°13	n.a.	S 25
S 26	12 2 10	2°21'55	2♌11	3°47	13°47	12° 7	29° 1	20°43	17°24	2° 1	13°57	6°48	7° 6	29°20	n.a.	S 26
M27	12 6 6	3°20'10	14°56	5°55	14°54	12°50	29° 0	20°47	17°23	2° 3	13°59	6°48	7° 3	29°26	n.a.	M27
T 28	12 10 3	4°18'23	27°26	8° 4	16° 2	13°33	28°58	20°50	17°21	2° 5	14° 0	6°47	7° 0	29°33	n.a.	T 28
W29	12 13 59	5°16'33	9♍44	10°12	17°10	14°16	28°56	20°54	17°19	2° 7	14° 1	6°47	6°57	29°40	n.a.	W29
T 30	12 17 56	6°14'42	21°52	12°20	18°17	14°59	28°54	20°58	17°18	2° 9	14° 3	6°47	6°53	29°46	n.a.	T 30
F 31	12 21 52	7♈12'48	3♎52	14♈28	19♉24	15♈41	28♏52	21♊ 1	17♏16	2♓11	14♈ 4	6♈47	6♈50	29♎53	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	8s42	14n17	3n 6	18s 6	2s13	6n20	0n29	2s57	0s33	19s19	0n46	22n54	0s25	17s 5	0n15	12s24	1s17	9s 9	15s46	2n47	3n23	11s51			n.a.
T 2	8 20	8 43	2 7	17 38	2 15	6 51	0 32	2 39	0 32	19 20	0 46	22 54	0 25	17 5	0 15	12 23	1 17	9 8	15 46	2 46	3 21	11 54			n.a.
F 3	7 57	2 55	1 4	17 8	2 16	7 22	0 36	2 20	0 31	19 20	0 46	22 55	0 25	17 5	0 15	12 22	1 17	9 7	15 46	2 45	3 20	11 57			n.a.
S 4	7 35	2s55	0s 2	16 37	2 17	7 52	0 39	2 2	0 31	19 21	0 47	22 55	0 24	17 5	0 15	12 21	1 17	9 7	15 46	2 45	3 19	12 1			n.a.
S 5	7 12	8 35	1 7	16 4	2 17	8 23	0 43	1 44	0 30	19 22	0 47	22 55	0 24	17 5	0 15	12 21	1 17	9 6	15 45	2 45	3 18	12 4			n.a.
M 6	6 49	13 56	2 9	15 29	2 17	8 53	0 46	1 25	0 29	19 22	0 47	22 55	0 24	17 5	0 15	12 20	1 17	9 6	15 45	2 45	3 16	12 7			n.a.
T 7	6 26	18 46	3 5	14 53	2 16	9 23	0 50	1 7	0 29	19 23	0 47	22 56	0 24	17 4	0 15	12 19	1 17	9 5	15 45	2 46	3 15	12 10			n.a.
W 8	6 3	22 54	3 54	14 16	2 15	9 53	0 54	0 49	0 28	19 23	0 47	22 56	0 24	17 4	0 15	12 18	1 17	9 4	15 45	2 47	3 14	12 14			n.a.
T 9	5 40	26 7	4 33	13 37	2 13	10 22	0 57	0 31	0 28	19 23	0 47	22 56	0 24	17 4	0 15	12 17	1 17	9 4	15 45	2 47	3 13	12 17			n.a.
F 10	5 17	28 13	5 0	12 56	2 11	10 52	1 1	0 12	0 27	19 24	0 47	22 56	0 24	17 4	0 15	12 17	1 17	9 3	15 45	2 47	3 11	12 20			n.a.
S 11	4 54	28 57	5 14	12 14	2 9	11 21	1 4	0n 6	0 26	19 24	0 47	22 57	0 23	17 4	0 15	12 16	1 17	9 2	15 44	2 47	3 10	12 23			n.a.
S 12	4 31	28 9	5 13	11 30	2 5	11 50	1 8	0 24	0 26	19 24	0 47	22 57	0 23	17 3	0 15	12 15	1 17	9 2	15 44	2 46	3 9	12 26			n.a.
M13	4 8	25 46	4 56	10 44	2 2	12 18	1 11	0 42	0 25	19 25	0 47	22 57	0 23	17 3	0 15	12 14	1 17	9 1	15 44	2 46	3 7	12 30			n.a.
T 14	3 44	21 51	4 22	9 57	1 57	12 46	1 15	1 0	0 24	19 25	0 47	22 58	0 23	17 3	0 15	12 14	1 17	9 1	15 44	2 45	3 6	12 33			n.a.
W15	3 21	16 35	3 31	9 9	1 52	13 14	1 18	1 18	0 24	19 25	0 47	22 58	0 23	17 3	0 15	12 13	1 17	9 0	15 44	2 44	3 5	12 36			n.a.
T 16	2 58	10 17	2 25	8 19	1 47	13 42	1 22	1 36	0 23	19 25	0 47	22 58	0 23	17 2	0 15	12 12	1 17	8 59	15 44	2 43	3 4	12 39			n.a.
F 17	2 34	3 18	1 8	7 28	1 41	14 9	1 25	1 55	0 23	19 25	0 47	22 59	0 23	17 2	0 15	12 11	1 17	8 59	15 44	2 43	3 2	12 42			n.a.
S 18	2 11	3n57	0n14	6 35	1 35	14 37	1 29	2 13	0 22	19 25	0 47	22 59	0 22	17 2	0 15	12 10	1 17	8 58	15 43	2 43	3 1	12 46			n.a.
S 19	1 47	11 0	1 36	5 41	1 28	15 3	1 32	2 30	0 21	19 25	0 47	22 59	0 22	17 1	0 15	12 10	1 17	8 58	15 43	2 43	3 0	12 49			n.a.
M20	1 24	17 23	2 50	4 45	1 20	15 30	1 36	2 48	0 21	19 25	0 47	23 0	0 22	17 1	0 15	12 9	1 17	8 57	15 43	2 43	2 59	12 52			n.a.
T 21	1 0	22 41	3 52	3 49	1 12	15 55	1 39	3 6	0 20	19 25	0 47	23 0	0 22	17 1	0 15	12 8	1 17	8 56	15 43	2 44	2 57	12 55			n.a.
W22	0 37	26 30	4 39	2 51	1 4	16 21	1 43	3 24	0 19	19 25	0 47	23 0	0 22	17 0	0 15	12 8	1 17	8 56	15 43	2 44	2 56	12 58			n.a.
T 23	0 13	28 35	5 7	1 53	0 55	16 46	1 46	3 42	0 19	19 25	0 47	23 1	0 22	17 0	0 15	12 7	1 17	8 55	15 43	2 44	2 55	13 1			n.a.
F 24	0n10	28 52	5 17	0 53	0 46	17 11	1 49	4 0	0 18	19 25	0 47	23 1	0 22	17 0	0 15	12 6	1 17	8 55	15 43	2 44	2 54	13 5			n.a.
S 25	0 34	27 26	5 10	0n 7	0 36	17 35	1 52	4 17	0 18	19 24	0 47	23 1	0 22	16 59	0 15	12 5	1 17	8 54	15 43	2 44	2 52	13 8			n.a.
S 26	0 57	24 33	4 47	1 7	0 26	17 59	1 56	4 35	0 17	19 24	0 47	23 2	0 21	16 59	0 15	12 5	1 17	8 53	15 43	2 44	2 51	13 11			n.a.
M27	1 20	20 31	4 10	2 8	0 16	18 23	1 59	4 52	0 16	19 24	0 47	23 2	0 21	16 58	0 15	12 4	1 17	8 53	15 42	2 44	2 50	13 14			n.a.
T 28	1 44	15 39	3 22	3 9	0 5	18 46	2 2	5 10	0 16	19 23	0 47	23 2	0 21	16 58	0 15	12 3	1 17	8 52	15 42	2 43	2 48	13 17			n.a.
W29	2 7	10 14	2 25	4 10	0n 5	19 9	2 5	5 27	0 15	19 23	0 47	23 3	0 21	16 57	0 15	12 3	1 17	8 52	15 42	2 43	2 47	13 20			n.a.
T 30	2 30	4 31	1 22	5 11	0 16	19 31	2 8	5 45	0 14	19 23	0 47	23 3	0 21	16 57	0 15	12 2	1 17	8 51	15 42	2 43	2 46	13 23			n.a.
F 31	2n54	1s18	0n16	6n11	0n27	19n53	2n11	6n 2	0s14	19s22	0n47	23n 4	0s21	16s56	0n15	12s 1	1s18	8s50	15s42	2n43	2n45	13s27			n.a.

Julian Day Number = 1678748.5, Delta T = 03h16m37s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'44, Lahiri = - 5°33'44 Julian Calendar 1 March 117 BCE == Greg. Calendar 27 Feb. 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

APRIL 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 25 49	8♈10'53	15♎46	16♈34	20♉31	16♈24	28°R50	21♊ 5	17°R14	2♓13	14♈ 6	6°R47	6♈47	29♎59	n.a.	S 1
S 2	12 29 46	9° 8'56	27°36	18°40	21°38	17° 7	28♏47	21° 9	17♏13	2°15	14° 7	6♈47	6°44	0♏ 6	n.a.	S 2
M 3	12 33 42	10° 6'58	9♏24	20°44	22°44	17°50	28°45	21°13	17°11	2°17	14° 8	6°46	6°41	0°13	n.a.	M 3
T 4	12 37 39	11° 4'57	21°14	22°45	23°51	18°32	28°42	21°17	17° 9	2°19	14°10	6°46	6°38	0°20	n.a.	T 4
W 5	12 41 35	12° 2'56	3♐ 8	24°45	24°57	19°15	28°39	21°22	17° 7	2°20	14°11	6°45	6°34	0°26	n.a.	W 5
T 6	12 45 32	13° 0'53	15° 9	26°43	26° 3	19°58	28°36	21°26	17° 5	2°22	14°12	6°45	6°31	0°33	n.a.	T 6
F 7	12 49 28	13°58'48	27°21	28°38	27° 9	20°40	28°32	21°30	17° 4	2°24	14°14	6°44	6°28	0°40	n.a.	F 7
S 8	12 53 25	14°56'42	9♑49	0♉30	28°14	21°23	28°29	21°35	17° 2	2°26	14°15	6°D44	6°25	0°46	n.a.	S 8
S 9	12 57 21	15°54'35	22°36	2°19	29°20	22° 5	28°25	21°39	17° 0	2°28	14°16	6°44	6°22	0°53	n.a.	S 9
M10	13 1 18	16°52'27	5♒45	4° 5	0♊25	22°47	28°21	21°44	16°58	2°29	14°18	6°44	6°18	1° 0	n.a.	M10
T 11	13 5 15	17°50'17	19°19	5°48	1°30	23°30	28°17	21°49	16°56	2°31	14°19	6°45	6°15	1° 6	n.a.	T 11
W12	13 9 11	18°48'05	3♓21	7°28	2°35	24°12	28°13	21°54	16°54	2°33	14°21	6°46	6°12	1°13	n.a.	W12
T 13	13 13 8	19°45'53	17°47	9° 4	3°39	24°54	28° 9	21°59	16°51	2°35	14°22	6°47	6° 9	1°20	n.a.	T 13
F 14	13 17 4	20°43'39	2♈36	10°37	4°43	25°36	28° 4	22° 4	16°49	2°36	14°23	6°R47	6° 6	1°26	n.a.	F 14
S 15	13 21 1	21°41'23	17°40	12° 6	5°47	26°19	27°59	22° 9	16°47	2°38	14°25	6°47	6° 3	1°33	n.a.	S 15
S 16	13 24 57	22°39'06	2♉51	13°31	6°51	27° 1	27°54	22°14	16°45	2°39	14°26	6°46	5°59	1°40	n.a.	S 16
M17	13 28 54	23°36'48	18° 0	14°53	7°55	27°43	27°49	22°19	16°43	2°41	14°27	6°44	5°56	1°46	n.a.	M17
T 18	13 32 50	24°34'29	2♊57	16°11	8°58	28°25	27°44	22°24	16°41	2°43	14°29	6°42	5°53	1°53	n.a.	T 18
W19	13 36 47	25°32'07	17°35	17°25	10° 1	29° 7	27°39	22°29	16°38	2°44	14°30	6°40	5°50	2° 0	n.a.	W19
T 20	13 40 44	26°29'45	1♋48	18°36	11° 4	29°49	27°34	22°35	16°36	2°46	14°31	6°38	5°47	2° 6	n.a.	T 20
F 21	13 44 40	27°27'20	15°35	19°43	12° 6	0♉30	27°28	22°40	16°34	2°47	14°33	6°37	5°44	2°13	n.a.	F 21
S 22	13 48 37	28°24'54	28°56	20°45	13° 8	1°12	27°22	22°46	16°32	2°49	14°34	6°D36	5°40	2°20	n.a.	S 22
S 23	13 52 33	29°22'26	11♌53	21°44	14°10	1°54	27°16	22°52	16°29	2°50	14°35	6°37	5°37	2°26	n.a.	S 23
M24	13 56 30	0♉19'57	24°30	22°38	15°11	2°36	27°11	22°57	16°27	2°52	14°37	6°38	5°34	2°33	n.a.	M24
T 25	14 0 26	1°17'26	6♍50	23°29	16°13	3°17	27° 4	23° 3	16°25	2°53	14°38	6°40	5°31	2°39	n.a.	T 25
W26	14 4 23	2°14'54	18°56	24°15	17°13	3°59	26°58	23° 9	16°22	2°54	14°39	6°41	5°28	2°46	n.a.	W26
T 27	14 8 19	3°12'21	0♎54	24°57	18°14	4°41	26°52	23°15	16°20	2°56	14°41	6°R42	5°24	2°53	n.a.	T 27
F 28	14 12 16	4° 9'46	12°46	25°34	19°14	5°22	26°45	23°21	16°18	2°57	14°42	6°42	5°21	2°59	n.a.	F 28
S 29	14 16 13	5° 7'10	24°35	26° 7	20°14	6° 4	26°39	23°27	16°15	2°58	14°43	6°41	5°18	3° 6	n.a.	S 29
S 30	14 20 9	6♉ 4'33	6♏24	26♉36	21♊13	6♉45	26♏32	23♊33	16♏13	3♓ 0	14♈45	6♈38	5♈15	3♏13	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n17	7s 2	0s50	7n10	0n38	20n14	2n14	6n19	0s13	19s22	0n47	23n 4	0s21	16s56	0n15	12s 1	1s18	8s50	15s42	2n43	2n43	13s30		n.a.
S 2	3 40	12 30	1 53	8 8	0 49	20 35	2 17	6 36	0 13	19 21	0 47	23 4	0 20	16 55	0 15	12 0	1 18	8 49	15 42	2 43	2 42	13 33		n.a.
M 3	4 3	17 30	2 51	9 6	0 59	20 55	2 20	6 53	0 12	19 20	0 47	23 5	0 20	16 55	0 15	11 59	1 18	8 49	15 42	2 43	2 41	13 36		n.a.
T 4	4 26	21 51	3 43	10 1	1 9	21 15	2 22	7 10	0 11	19 20	0 47	23 5	0 20	16 54	0 15	11 59	1 18	8 48	15 42	2 43	2 40	13 39		n.a.
W 5	4 49	25 20	4 24	10 55	1 19	21 34	2 25	7 27	0 11	19 19	0 47	23 6	0 20	16 54	0 15	11 58	1 18	8 48	15 42	2 43	2 38	13 42		n.a.
T 6	5 12	27 46	4 55	11 48	1 29	21 53	2 28	7 44	0 10	19 18	0 47	23 6	0 20	16 53	0 15	11 57	1 18	8 47	15 42	2 42	2 37	13 45		n.a.
F 7	5 34	28 54	5 13	12 38	1 38	22 11	2 30	8 1	0 9	19 18	0 47	23 6	0 20	16 53	0 15	11 57	1 18	8 47	15 42	2 42	2 36	13 49		n.a.
S 8	5 57	28 36	5 17	13 26	1 46	22 28	2 33	8 18	0 9	19 17	0 47	23 7	0 20	16 52	0 15	11 56	1 18	8 46	15 42	2 42	2 34	13 52		n.a.
S 9	6 20	26 48	5 5	14 12	1 54	22 45	2 35	8 34	0 8	19 16	0 47	23 7	0 20	16 52	0 15	11 55	1 18	8 45	15 42	2 42	2 33	13 55		n.a.
M10	6 42	23 32	4 38	14 56	2 1	23 2	2 37	8 51	0 8	19 15	0 47	23 8	0 19	16 51	0 15	11 55	1 18	8 45	15 42	2 42	2 32	13 58		n.a.
T 11	7 5	18 53	3 54	15 37	2 8	23 18	2 40	9 7	0 7	19 14	0 47	23 8	0 19	16 51	0 15	11 54	1 18	8 44	15 42	2 43	2 31	14 1		n.a.
W12	7 27	13 6	2 55	16 16	2 14	23 33	2 42	9 23	0 6	19 13	0 47	23 8	0 19	16 50	0 15	11 54	1 18	8 44	15 42	2 43	2 29	14 4		n.a.
T 13	7 49	6 28	1 43	16 52	2 19	23 48	2 44	9 40	0 6	19 12	0 47	23 9	0 19	16 49	0 15	11 53	1 18	8 43	15 42	2 43	2 28	14 7		n.a.
F 14	8 11	0n41	0 23	17 26	2 24	24 2	2 46	9 56	0 5	19 11	0 47	23 9	0 19	16 49	0 15	11 52	1 18	8 43	15 42	2 43	2 27	14 10		n.a.
S 15	8 33	7 56	1n 0	17 58	2 27	24 16	2 48	10 12	0 4	19 10	0 47	23 10	0 19	16 48	0 15	11 52	1 18	8 42	15 42	2 43	2 26	14 13		n.a.
S 16	8 55	14 47	2 19	18 27	2 30	24 29	2 49	10 28	0 4	19 9	0 47	23 10	0 19	16 48	0 15	11 51	1 18	8 42	15 42	2 43	2 24	14 17		n.a.
M17	9 16	20 43	3 29	18 54	2 32	24 41	2 51	10 44	0 3	19 8	0 47	23 11	0 19	16 47	0 15	11 51	1 18	8 41	15 42	2 42	2 23	14 20		n.a.
T 18	9 38	25 17	4 23	19 18	2 33	24 53	2 53	10 59	0 3	19 7	0 47	23 11	0 18	16 46	0 15	11 50	1 18	8 41	15 42	2 41	2 22	14 23		n.a.
W19	9 59	28 4	4 58	19 40	2 33	25 4	2 54	11 15	0 2	19 6	0 47	23 11	0 18	16 46	0 15	11 50	1 18	8 40	15 42	2 41	2 20	14 26		n.a.
T 20	10 20	28 56	5 14	20 0	2 32	25 15	2 56	11 31	0 1	19 5	0 47	23 12	0 18	16 45	0 15	11 49	1 18	8 40	15 42	2 40	2 19	14 29		n.a.
F 21	10 41	27 57	5 12	20 17	2 31	25 25	2 57	11 46	0 1	19 3	0 47	23 12	0 18	16 44	0 15	11 49	1 18	8 40	15 42	2 39	2 18	14 32		n.a.
S 22	11 2	25 22	4 52	20 32	2 28	25 35	2 58	12 1	0 0	19 2	0 47	23 13	0 18	16 44	0 15	11 48	1 18	8 39	15 42	2 39	2 17	14 35		n.a.
S 23	11 23	21 32	4 18	20 44	2 25	25 43	2 59	12 17	0n 0	19 1	0 47	23 13	0 18	16 43	0 15	11 48	1 18	8 39	15 42	2 39	2 15	14 38		n.a.
M24	11 43	16 50	3 32	20 54	2 21	25 51	3 0	12 32	0 1	19 0	0 47	23 14	0 18	16 42	0 15	11 47	1 18	8 38	15 42	2 40	2 14	14 41		n.a.
T 25	12 3	11 32	2 37	21 2	2 16	25 59	3 1	12 47	0 2	18 58	0 47	23 14	0 18	16 42	0 15	11 47	1 19	8 38	15 42	2 40	2 13	14 44		n.a.
W26	12 23	5 54	1 36	21 8	2 9	26 6	3 1	13 2	0 2	18 57	0 47	23 14	0 18	16 41	0 15	11 46	1 19	8 37	15 42	2 41	2 12	14 47		n.a.
T 27	12 43	0 7	0 32	21 12	2 2	26 12	3 2	13 16	0 3	18 55	0 47	23 15	0 17	16 40	0 15	11 46	1 19	8 37	15 42	2 41	2 10	14 50		n.a.
F 28	13 3	5s37	0s33	21 13	1 54	26 18	3 2	13 31	0 3	18 54	0 46	23 15	0 17	16 40	0 15	11 45	1 19	8 36	15 43	2 41	2 9	14 53		n.a.
S 29	13 23	11 8	1 37	21 13	1 45	26 23	3 2	13 45	0 4	18 53	0 46	23 16	0 17	16 39	0 15	11 45	1 19	8 36	15 43	2 41	2 8	14 57		n.a.
S 30	13n42	16s15	2s36	21n10	1n36	26n27	3n 3	14n 0	0n 5	18s51	0n46	23n16	0s17	16s38	0n15	11s45	1s19	8s36	15s43	2n40	2n 6	15s 0		n.a.

Julian Day Number = 1678779.5, Delta T = 03h16m36s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'40, Lahiri = - 5°33'39 Julian Calendar 1 Apr. 117 BCE == Greg. Calendar 29 March 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

MAY 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 24 6	7♉ 1'54	18♏14	27♉ 0	22♊12	7♉26	26°R26	23♊39	16°R10	3♓ 1	14♈46	6°R34	5♈12	3♏19	n.a.	M 1
T 2	14 28 2	7°59'15	0♐ 8	27°19	23°11	8° 8	26♏19	23°45	16♏ 8	3° 2	14°47	6♈29	5° 9	3°26	n.a.	T 2
W 3	14 31 59	8°56'35	12° 7	27°34	24° 9	8°49	26°12	23°51	16° 5	3° 3	14°48	6°23	5° 5	3°33	n.a.	W 3
T 4	14 35 55	9°53'55	24°15	27°44	25° 7	9°30	26° 5	23°57	16° 3	3° 4	14°50	6°18	5° 2	3°39	n.a.	T 4
F 5	14 39 52	10°51'13	6♑32	27°50	26° 4	10°11	25°58	24° 4	16° 1	3° 5	14°51	6°13	4°59	3°46	n.a.	F 5
S 6	14 43 48	11°48'31	19° 3	27°R51	27° 1	10°53	25°51	24°10	15°58	3° 7	14°52	6° 9	4°56	3°53	n.a.	S 6
S 7	14 47 45	12°45'49	1♒49	27°47	27°57	11°34	25°43	24°17	15°56	3° 8	14°53	6° 7	4°53	3°59	n.a.	S 7
M 8	14 51 42	13°43'05	14°54	27°39	28°53	12°15	25°36	24°23	15°53	3° 9	14°55	6°D 7	4°49	4° 6	n.a.	M 8
T 9	14 55 38	14°40'21	28°21	27°27	29°48	12°56	25°29	24°30	15°51	3°10	14°56	6° 7	4°46	4°13	n.a.	T 9
W10	14 59 35	15°37'37	12♓12	27°11	0♋43	13°37	25°21	24°36	15°48	3°11	14°57	6° 9	4°43	4°19	n.a.	W10
T 11	15 3 31	16°34'52	26°28	26°51	1°38	14°18	25°14	24°43	15°46	3°12	14°58	6°10	4°40	4°26	n.a.	T 11
F 12	15 7 28	17°32'07	11♈ 6	26°28	2°32	14°59	25° 6	24°50	15°43	3°12	14°59	6°R10	4°37	4°33	n.a.	F 12
S 13	15 11 24	18°29'21	26° 3	26° 2	3°25	15°39	24°59	24°56	15°41	3°13	15° 1	6° 9	4°34	4°39	n.a.	S 13
S 14	15 15 21	19°26'35	11♉12	25°33	4°17	16°20	24°51	25° 3	15°38	3°14	15° 2	6° 5	4°30	4°46	n.a.	S 14
M15	15 19 17	20°23'48	26°24	25° 3	5°10	17° 1	24°44	25°10	15°36	3°15	15° 3	6° 0	4°27	4°53	n.a.	M15
T 16	15 23 14	21°21'01	11♊28	24°30	6° 1	17°42	24°36	25°17	15°33	3°16	15° 4	5°54	4°24	4°59	n.a.	T 16
W17	15 27 11	22°18'13	26°15	23°57	6°52	18°22	24°28	25°24	15°31	3°17	15° 5	5°47	4°21	5° 6	n.a.	W17
T 18	15 31 7	23°15'24	10♋38	23°23	7°42	19° 3	24°21	25°31	15°29	3°17	15° 6	5°40	4°18	5°13	n.a.	T 18
F 19	15 35 4	24°12'35	24°33	22°49	8°31	19°44	24°13	25°38	15°26	3°18	15° 7	5°35	4°15	5°19	n.a.	F 19
S 20	15 39 0	25° 9'45	7♌59	22°15	9°20	20°24	24° 5	25°45	15°24	3°19	15° 8	5°32	4°11	5°26	n.a.	S 20
S 21	15 42 57	26° 6'54	20°58	21°43	10° 8	21° 5	23°58	25°52	15°21	3°19	15°10	5°D30	4° 8	5°33	n.a.	S 21
M22	15 46 53	27° 4'03	3♍34	21°13	10°55	21°45	23°50	25°59	15°19	3°20	15°11	5°31	4° 5	5°39	n.a.	M22
T 23	15 50 50	28° 1'11	15°50	20°45	11°41	22°26	23°42	26° 6	15°16	3°20	15°12	5°31	4° 2	5°46	n.a.	T 23
W24	15 54 46	28°58'18	27°53	20°20	12°26	23° 6	23°35	26°14	15°14	3°21	15°13	5°32	3°59	5°53	n.a.	W24
T 25	15 58 43	29°55'24	9♎46	19°58	13°11	23°46	23°27	26°21	15°12	3°22	15°14	5°R33	3°55	5°59	n.a.	T 25
F 26	16 2 40	0♊52'31	21°35	19°40	13°55	24°27	23°20	26°28	15° 9	3°22	15°15	5°31	3°52	6° 6	n.a.	F 26
S 27	16 6 36	1°49'37	3♏23	19°25	14°37	25° 7	23°12	26°35	15° 7	3°22	15°16	5°28	3°49	6°13	n.a.	S 27
S 28	16 10 33	2°46'42	15°13	19°15	15°19	25°47	23° 5	26°43	15° 5	3°23	15°17	5°22	3°46	6°19	n.a.	S 28
M29	16 14 29	3°43'48	27° 8	19° 9	15°59	26°27	22°57	26°50	15° 2	3°23	15°18	5°13	3°43	6°26	n.a.	M29
T 30	16 18 26	4°40'53	9♐ 9	19°D 8	16°39	27° 8	22°50	26°57	15° 0	3°24	15°19	5° 3	3°40	6°33	n.a.	T 30
W31	16 22 22	5♊37'59	21♐19	19♉12	17♋17	27♉48	22♏43	27♊ 5	14♏58	3♓24	15♈20	4♈53	3♈36	6♏39	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	14n 1	20s47	3s28	21n 5	1n25	26n31	3n 3	14n14	0n 5	18s50	0n46	23n17	0s17	16s38	0n15	11s44	1s19	8s35	15s43	2n38	2n 5	15s 3			n.a.
T 2	14 20	24 30	4 11	20 58	1 13	26 34	3 2	14 28	0 6	18 48	0 46	23 17	0 17	16 37	0 15	11 44	1 19	8 35	15 43	2 36	2 4	15 6			n.a.
W 3	14 38	27 12	4 44	20 50	1 1	26 37	3 2	14 42	0 7	18 47	0 46	23 17	0 17	16 36	0 15	11 43	1 19	8 34	15 43	2 34	2 3	15 9			n.a.
T 4	14 57	28 39	5 5	20 39	0 48	26 39	3 2	14 56	0 7	18 45	0 46	23 18	0 17	16 36	0 15	11 43	1 19	8 34	15 43	2 32	2 1	15 12			n.a.
F 5	15 15	28 44	5 11	20 27	0 33	26 40	3 1	15 10	0 8	18 43	0 46	23 18	0 16	16 35	0 15	11 43	1 19	8 34	15 43	2 30	2 0	15 15			n.a.
S 6	15 33	27 21	5 4	20 13	0 19	26 41	3 0	15 23	0 8	18 42	0 46	23 19	0 16	16 34	0 15	11 42	1 19	8 33	15 43	2 28	1 59	15 18			n.a.
S 7	15 51	24 32	4 41	19 57	0 3	26 41	2 59	15 37	0 9	18 40	0 46	23 19	0 16	16 33	0 15	11 42	1 19	8 33	15 43	2 27	1 58	15 21			n.a.
M 8	16 8	20 25	4 3	19 40	0s12	26 41	2 58	15 50	0 9	18 38	0 46	23 19	0 16	16 33	0 15	11 42	1 19	8 33	15 44	2 27	1 56	15 24			n.a.
T 9	16 25	15 10	3 11	19 21	0 29	26 40	2 57	16 3	0 10	18 37	0 46	23 20	0 16	16 32	0 15	11 41	1 19	8 32	15 44	2 27	1 55	15 27			n.a.
W10	16 42	9 0	2 7	19 1	0 45	26 38	2 55	16 16	0 11	18 35	0 45	23 20	0 16	16 31	0 15	11 41	1 19	8 32	15 44	2 28	1 54	15 30			n.a.
T 11	16 59	2 14	0 53	18 40	1 2	26 36	2 54	16 29	0 11	18 33	0 45	23 20	0 16	16 31	0 15	11 41	1 19	8 32	15 44	2 28	1 52	15 33			n.a.
F 12	17 15	4n51	0n27	18 18	1 19	26 33	2 52	16 42	0 12	18 32	0 45	23 21	0 16	16 30	0 15	11 40	1 19	8 31	15 44	2 29	1 51	15 36			n.a.
S 13	17 32	11 49	1 46	17 55	1 36	26 30	2 50	16 55	0 12	18 30	0 45	23 21	0 16	16 29	0 15	11 40	1 19	8 31	15 44	2 28	1 50	15 39			n.a.
S 14	17 47	18 11	2 58	17 32	1 53	26 26	2 48	17 7	0 13	18 28	0 45	23 22	0 16	16 28	0 15	11 40	1 19	8 31	15 44	2 27	1 49	15 42			n.a.
M15	18 3	23 25	3 58	17 9	2 9	26 22	2 45	17 20	0 14	18 26	0 45	23 22	0 15	16 28	0 15	11 40	1 19	8 30	15 45	2 25	1 47	15 45			n.a.
T 16	18 18	27 3	4 41	16 46	2 25	26 17	2 43	17 32	0 14	18 25	0 45	23 22	0 15	16 27	0 15	11 39	1 20	8 30	15 45	2 22	1 46	15 48			n.a.
W17	18 33	28 43	5 4	16 23	2 41	26 12	2 40	17 44	0 15	18 23	0 45	23 23	0 15	16 26	0 15	11 39	1 20	8 30	15 45	2 19	1 45	15 51			n.a.
T 18	18 48	28 23	5 7	16 0	2 55	26 6	2 37	17 56	0 15	18 21	0 44	23 23	0 15	16 26	0 15	11 39	1 20	8 30	15 45	2 17	1 44	15 54			n.a.
F 19	19 2	26 14	4 52	15 39	3 9	26 0	2 34	18 7	0 16	18 19	0 44	23 23	0 15	16 25	0 15	11 39	1 20	8 29	15 45	2 15	1 42	15 57			n.a.
S 20	19 16	22 40	4 20	15 18	3 21	25 53	2 31	18 19	0 17	18 18	0 44	23 24	0 15	16 24	0 15	11 39	1 20	8 29	15 46	2 13	1 41	16 0			n.a.
S 21	19 30	18 5	3 37	14 59	3 32	25 46	2 27	18 30	0 17	18 16	0 44	23 24	0 15	16 23	0 15	11 38	1 20	8 29	15 46	2 13	1 40	16 3			n.a.
M22	19 44	12 51	2 44	14 41	3 42	25 38	2 23	18 42	0 18	18 14	0 44	23 24	0 15	16 23	0 15	11 38	1 20	8 29	15 46	2 13	1 38	16 6			n.a.
T 23	19 57	7 15	1 44	14 26	3 51	25 30	2 19	18 53	0 18	18 12	0 44	23 25	0 15	16 22	0 15	11 38	1 20	8 28	15 46	2 13	1 37	16 9			n.a.
W24	20 9	1 29	0 41	14 12	3 59	25 21	2 15	19 4	0 19	18 11	0 44	23 25	0 14	16 21	0 15	11 38	1 20	8 28	15 46	2 14	1 36	16 12			n.a.
T 25	20 22	4s16	0s23	14 0	4 5	25 12	2 10	19 15	0 19	18 9	0 43	23 25	0 14	16 21	0 15	11 38	1 20	8 28	15 46	2 14	1 35	16 15			n.a.
F 26	20 34	9 49	1 25	13 51	4 9	25 3	2 5	19 25	0 20	18 7	0 43	23 26	0 14	16 20	0 15	11 38	1 20	8 28	15 47	2 13	1 33	16 18			n.a.
S 27	20 46	15 2	2 24	13 44	4 13	24 53	2 0	19 36	0 21	18 5	0 43	23 26	0 14	16 19	0 15	11 38	1 20	8 28	15 47	2 12	1 32	16 21			n.a.
S 28	20 57	19 42	3 16	13 39	4 15	24 43	1 55	19 46	0 21	18 4	0 43	23 26	0 14	16 19	0 15	11 37	1 20	8 28	15 47	2 9	1 31	16 24			n.a.
M29	21 8	23 37	4 0	13 37	4 15	24 33	1 49	19 56	0 22	18 2	0 43	23 26	0 14	16 18	0 15	11 37	1 20	8 27	15 47	2 6	1 30	16 27			n.a.
T 30	21 19	26 35	4 34	13 37	4 15	24 22	1 44	20 6	0 22	18 0	0 43	23 27	0 14	16 17	0 15	11 37	1 20	8 27	15 48	2 2	1 28	16 30			n.a.
W31	21n29	28s20	4s55	13n40	4s13	24n11	1n37	20n16	0n23	17s58	0n43	23n27	0s14	16s17	0n15	11s37	1s20	8s27	15s48	1n58	1n27	16s32			n.a.

Julian Day Number = 1678809.5, Delta T = 03h16m35s
Ecliptic obliquity = 23°42'43, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'36, Lahiri = - 5°33'35 Julian Calendar 1 May 117 BCE == Greg. Calendar 28 Apr. 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

JUNE 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 26 19	6♊35'04	3♉38	19♉20	17♋55	28♉28	22°R35	27♊12	14°R56	3♓24	15♈21	4°R42	3♈33	6♏46	n.a.	T 1
F 2	16 30 16	7°32'10	16° 7	19°33	18°31	29° 8	22♏28	27°20	14♏53	3°24	15°21	4♈32	3°30	6°53	n.a.	F 2
S 3	16 34 12	8°29'15	28°47	19°52	19° 5	29°48	22°21	27°27	14°51	3°25	15°22	4°24	3°27	6°59	n.a.	S 3
S 4	16 38 9	9°26'21	11♒40	20°15	19°39	0♊28	22°14	27°35	14°49	3°25	15°23	4°18	3°24	7° 6	n.a.	S 4
M 5	16 42 5	10°23'27	24°48	20°43	20°11	1° 8	22° 7	27°42	14°47	3°25	15°24	4°15	3°21	7°13	n.a.	M 5
T 6	16 46 2	11°20'34	8♓13	21°16	20°42	1°48	22° 0	27°50	14°45	3°25	15°25	4°D14	3°17	7°19	n.a.	T 6
W 7	16 49 58	12°17'41	21°56	21°55	21°11	2°27	21°53	27°57	14°43	3°25	15°26	4°14	3°14	7°26	n.a.	W 7
T 8	16 53 55	13°14'49	6♈ 0	22°37	21°39	3° 7	21°47	28° 5	14°41	3°25	15°27	4°R15	3°11	7°33	n.a.	T 8
F 9	16 57 51	14°11'57	20°23	23°25	22° 5	3°47	21°40	28°13	14°39	3°R25	15°27	4°14	3° 8	7°39	n.a.	F 9
S 10	17 1 48	15° 9'05	5♉ 4	24°18	22°30	4°27	21°34	28°20	14°37	3°25	15°28	4°11	3° 5	7°46	n.a.	S 10
S 11	17 5 45	16° 6'14	19°57	25°15	22°53	5° 6	21°27	28°28	14°35	3°25	15°29	4° 5	3° 1	7°53	n.a.	S 11
M12	17 9 41	17° 3'24	4♊56	26°17	23°15	5°46	21°21	28°36	14°33	3°25	15°30	3°57	2°58	7°59	n.a.	M12
T 13	17 13 38	18° 0'34	19°52	27°23	23°34	6°26	21°15	28°43	14°31	3°25	15°30	3°47	2°55	8° 6	n.a.	T 13
W14	17 17 34	18°57'45	4♋35	28°34	23°52	7° 5	21° 9	28°51	14°29	3°25	15°31	3°37	2°52	8°13	n.a.	W14
T 15	17 21 31	19°54'56	18°58	29°49	24° 8	7°45	21° 3	28°59	14°27	3°25	15°32	3°27	2°49	8°20	n.a.	T 15
F 16	17 25 27	20°52'07	2♌55	1♊ 9	24°22	8°24	20°57	29° 6	14°25	3°24	15°32	3°18	2°46	8°26	n.a.	F 16
S 17	17 29 24	21°49'18	16°24	2°33	24°33	9° 4	20°51	29°14	14°23	3°24	15°33	3°11	2°42	8°33	n.a.	S 17
S 18	17 33 21	22°46'30	29°26	4° 1	24°43	9°43	20°46	29°22	14°22	3°24	15°34	3° 7	2°39	8°40	n.a.	S 18
M19	17 37 17	23°43'42	12♍ 3	5°33	24°51	10°23	20°40	29°30	14°20	3°24	15°34	3° 6	2°36	8°46	n.a.	M19
T 20	17 41 14	24°40'54	24°20	7° 9	24°56	11° 2	20°35	29°37	14°18	3°23	15°35	3°D 5	2°33	8°53	n.a.	T 20
W21	17 45 10	25°38'07	6♎23	8°49	25° 0	11°42	20°30	29°45	14°16	3°23	15°36	3°R 5	2°30	9° 0	n.a.	W21
T 22	17 49 7	26°35'20	18°16	10°32	25°R 0	12°21	20°25	29°53	14°15	3°23	15°36	3° 5	2°27	9° 6	n.a.	T 22
F 23	17 53 3	27°32'33	0♏ 4	12°19	24°59	13° 0	20°20	0♋ 1	14°13	3°22	15°37	3° 2	2°23	9°13	n.a.	F 23
S 24	17 57 0	28°29'47	11°54	14° 9	24°55	13°39	20°16	0° 8	14°12	3°22	15°37	2°57	2°20	9°20	n.a.	S 24
S 25	18 0 56	29°27'01	23°47	16° 2	24°49	14°19	20°11	0°16	14°10	3°21	15°38	2°50	2°17	9°26	n.a.	S 25
M26	18 4 53	0♋24'17	5♐49	17°58	24°41	14°58	20° 7	0°24	14° 9	3°21	15°38	2°40	2°14	9°33	n.a.	M26
T 27	18 8 50	1°21'33	18° 0	19°56	24°30	15°37	20° 3	0°32	14° 7	3°20	15°39	2°28	2°11	9°40	n.a.	T 27
W28	18 12 46	2°18'49	0♉22	21°56	24°16	16°16	19°59	0°40	14° 6	3°20	15°39	2°15	2° 7	9°46	n.a.	W28
T 29	18 16 43	3°16'07	12°57	23°58	24° 1	16°55	19°55	0°47	14° 5	3°19	15°39	2° 2	2° 4	9°53	n.a.	T 29
F 30	18 20 39	4♋13'25	25♉42	26♊ 1	23♋43	17♊34	19♏51	0♋55	14♏ 3	3♓18	15♈40	1♈50	2♈ 1	10♏ 0	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n39	28s43	5s 3	13n45	4s10	24n 0	1n31	20n25	0n23	17s57	0n42	23n27	0s14	16s16	0n15	11s37	1s20	8s27	15s48	1n53	1n26	16s35		n.a.
F 2	21 49	27 39	4 57	13 53	4 6	23 49	1 24	20 35	0 24	17 55	0 42	23 27	0 14	16 15	0 15	11 37	1 20	8 27	15 48	1 49	1 24	16 38		n.a.
S 3	21 58	25 9	4 37	14 3	4 1	23 37	1 17	20 44	0 25	17 53	0 42	23 28	0 13	16 15	0 15	11 37	1 21	8 27	15 48	1 46	1 23	16 41		n.a.
S 4	22 7	21 21	4 2	14 15	3 54	23 25	1 10	20 53	0 25	17 52	0 42	23 28	0 13	16 14	0 15	11 37	1 21	8 27	15 49	1 44	1 22	16 44		n.a.
M 5	22 16	16 26	3 14	14 29	3 47	23 12	1 3	21 2	0 26	17 50	0 42	23 28	0 13	16 13	0 15	11 37	1 21	8 26	15 49	1 43	1 21	16 47		n.a.
T 6	22 24	10 39	2 14	14 45	3 39	23 0	0 55	21 11	0 26	17 49	0 41	23 28	0 13	16 13	0 14	11 37	1 21	8 26	15 49	1 42	1 19	16 50		n.a.
W 7	22 31	4 14	1 5	15 3	3 31	22 47	0 47	21 20	0 27	17 47	0 41	23 29	0 13	16 12	0 14	11 37	1 21	8 26	15 49	1 42	1 18	16 53		n.a.
T 8	22 39	2n33	0n 9	15 23	3 21	22 35	0 38	21 28	0 27	17 45	0 41	23 29	0 13	16 12	0 14	11 37	1 21	8 26	15 50	1 42	1 17	16 56		n.a.
F 9	22 46	9 21	1 25	15 45	3 11	22 22	0 30	21 36	0 28	17 44	0 41	23 29	0 13	16 11	0 14	11 37	1 21	8 26	15 50	1 42	1 16	16 59		n.a.
S 10	22 52	15 48	2 36	16 8	3 1	22 9	0 20	21 44	0 29	17 42	0 41	23 29	0 13	16 10	0 14	11 37	1 21	8 26	15 50	1 41	1 14	17 2		n.a.
S 11	22 59	21 25	3 37	16 33	2 50	21 56	0 11	21 52	0 29	17 41	0 40	23 29	0 13	16 10	0 14	11 37	1 21	8 26	15 50	1 39	1 13	17 5		n.a.
M12	23 4	25 41	4 24	16 59	2 38	21 42	0 1	22 0	0 30	17 39	0 40	23 30	0 13	16 9	0 14	11 37	1 21	8 26	15 51	1 35	1 12	17 7		n.a.
T 13	23 10	28 11	4 53	17 26	2 26	21 29	0s 9	22 7	0 30	17 38	0 40	23 30	0 13	16 9	0 14	11 37	1 21	8 26	15 51	1 31	1 10	17 10		n.a.
W14	23 15	28 39	5 1	17 53	2 14	21 16	0 19	22 15	0 31	17 37	0 40	23 30	0 12	16 8	0 14	11 38	1 21	8 26	15 51	1 27	1 9	17 13		n.a.
T 15	23 19	27 9	4 51	18 22	2 1	21 3	0 30	22 22	0 31	17 35	0 40	23 30	0 12	16 8	0 14	11 38	1 21	8 26	15 52	1 23	1 8	17 16		n.a.
F 16	23 24	23 59	4 23	18 51	1 48	20 49	0 41	22 29	0 32	17 34	0 39	23 30	0 12	16 7	0 14	11 38	1 21	8 26	15 52	1 20	1 7	17 19		n.a.
S 17	23 27	19 36	3 41	19 21	1 35	20 36	0 52	22 36	0 32	17 32	0 39	23 30	0 12	16 7	0 14	11 38	1 21	8 26	15 52	1 17	1 5	17 22		n.a.
S 18	23 31	14 25	2 48	19 51	1 22	20 23	1 4	22 42	0 33	17 31	0 39	23 31	0 12	16 6	0 14	11 38	1 21	8 26	15 52	1 15	1 4	17 25		n.a.
M19	23 34	8 48	1 49	20 20	1 9	20 10	1 16	22 49	0 33	17 30	0 39	23 31	0 12	16 6	0 14	11 38	1 21	8 26	15 53	1 15	1 3	17 28		n.a.
T 20	23 36	2 59	0 46	20 50	0 56	19 57	1 28	22 55	0 34	17 29	0 39	23 31	0 12	16 5	0 14	11 38	1 21	8 26	15 53	1 14	1 1	17 30		n.a.
W21	23 38	2s50	0s17	21 19	0 43	19 44	1 41	23 1	0 35	17 28	0 38	23 31	0 12	16 5	0 14	11 39	1 21	8 26	15 53	1 14	1 0	17 33		n.a.
T 22	23 40	8 28	1 19	21 47	0 30	19 31	1 53	23 7	0 35	17 27	0 38	23 31	0 12	16 4	0 14	11 39	1 22	8 26	15 53	1 14	0 59	17 36		n.a.
F 23	23 41	13 46	2 18	22 14	0 18	19 18	2 6	23 12	0 36	17 25	0 38	23 31	0 12	16 4	0 14	11 39	1 22	8 26	15 54	1 13	0 58	17 39		n.a.
S 24	23 42	18 35	3 10	22 40	0 6	19 6	2 20	23 18	0 36	17 24	0 38	23 31	0 12	16 3	0 14	11 39	1 22	8 26	15 54	1 11	0 56	17 42		n.a.
S 25	23 43	22 42	3 54	23 4	0n 6	18 54	2 33	23 23	0 37	17 23	0 38	23 31	0 11	16 3	0 14	11 39	1 22	8 26	15 54	1 8	0 55	17 45		n.a.
M26	23 43	25 55	4 28	23 27	0 18	18 42	2 47	23 28	0 37	17 22	0 37	23 31	0 11	16 2	0 14	11 40	1 22	8 26	15 55	1 4	0 54	17 48		n.a.
T 27	23 42	27 59	4 51	23 48	0 29	18 30	3 1	23 33	0 38	17 22	0 37	23 31	0 11	16 2	0 14	11 40	1 22	8 26	15 55	1 0	0 53	17 50		n.a.
W28	23 41	28 42	5 0	24 7	0 39	18 18	3 15	23 38	0 38	17 21	0 37	23 31	0 11	16 2	0 14	11 40	1 22	8 27	15 55	0 54	0 51	17 53		n.a.
T 29	23 40	27 57	4 55	24 23	0 49	18 7	3 29	23 42	0 39	17 20	0 37	23 31	0 11	16 1	0 14	11 40	1 22	8 27	15 56	0 49	0 50	17 56		n.a.
F 30	23n39	25s44	4s35	24n37	0n58	17n56	3s43	23n47	0n39	17s19	0n36	23n31	0s11	16s 1	0n14	11s41	1s22	8s27	15s56	0n44	0n49	17s59		n.a.

Julian Day Number = 1678840.5, Delta T = 03h16m34s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'32, Lahiri = - 5°33'31 Julian Calendar 1 June 117 BCE == Greg. Calendar 29 May 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

JULY 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 24 36	5♋10'45	8♒40	28♊ 5	23°R23	18♊13	19°R48	1♋ 3	14°R 2	3°R18	15♈40	1°R40	1♈58	10♏ 6	n.a.	S 1
S 2	18 28 32	6° 8'06	21°49	0♋10	23♋ 0	18°52	19♏45	1°11	14♏ 1	3♓17	15°41	1♈33	1°55	10°13	n.a.	S 2
M 3	18 32 29	7° 5'27	5♓ 9	2°15	22°36	19°31	19°41	1°18	14° 0	3°16	15°41	1°29	1°52	10°20	n.a.	M 3
T 4	18 36 25	8° 2'50	18°41	4°21	22° 9	20°10	19°38	1°26	13°59	3°15	15°41	1°27	1°48	10°26	n.a.	T 4
W 5	18 40 22	9° 0'15	2♈25	6°26	21°41	20°49	19°36	1°34	13°58	3°15	15°42	1°27	1°45	10°33	n.a.	W 5
T 6	18 44 19	9°57'41	16°23	8°31	21°11	21°28	19°33	1°42	13°57	3°14	15°42	1°27	1°42	10°40	n.a.	T 6
F 7	18 48 15	10°55'08	0♉34	10°35	20°39	22° 6	19°31	1°49	13°56	3°13	15°42	1°26	1°39	10°46	n.a.	F 7
S 8	18 52 12	11°52'37	14°57	12°39	20° 6	22°45	19°28	1°57	13°55	3°12	15°42	1°23	1°36	10°53	n.a.	S 8
S 9	18 56 8	12°50'07	29°30	14°41	19°32	23°24	19°26	2° 5	13°54	3°11	15°43	1°17	1°33	11° 0	n.a.	S 9
M10	19 0 5	13°47'39	14♊ 6	16°43	18°57	24° 3	19°24	2°12	13°53	3°10	15°43	1° 9	1°29	11° 6	n.a.	M10
T 11	19 4 1	14°45'12	28°41	18°43	18°20	24°41	19°23	2°20	13°52	3° 9	15°43	0°59	1°26	11°13	n.a.	T 11
W12	19 7 58	15°42'46	13♋ 6	20°42	17°44	25°20	19°21	2°28	13°51	3° 8	15°43	0°48	1°23	11°20	n.a.	W12
T 13	19 11 54	16°40'22	27°15	22°40	17° 7	25°59	19°20	2°35	13°51	3° 7	15°43	0°37	1°20	11°26	n.a.	T 13
F 14	19 15 51	17°37'59	11♌ 4	24°36	16°30	26°37	19°19	2°43	13°50	3° 6	15°43	0°28	1°17	11°33	n.a.	F 14
S 15	19 19 48	18°35'37	24°28	26°31	15°53	27°16	19°18	2°51	13°49	3° 5	15°44	0°20	1°13	11°40	n.a.	S 15
S 16	19 23 44	19°33'17	7♍28	28°25	15°16	27°54	19°17	2°58	13°49	3° 4	15°44	0°16	1°10	11°46	n.a.	S 16
M17	19 27 41	20°30'57	20° 6	0♌17	14°40	28°33	19°16	3° 6	13°48	3° 3	15°44	0°14	1° 7	11°53	n.a.	M17
T 18	19 31 37	21°28'39	2♎24	2° 8	14° 5	29°11	19°16	3°13	13°48	3° 2	15°44	0°D13	1° 4	12° 0	n.a.	T 18
W19	19 35 34	22°26'21	14°27	3°57	13°31	29°50	19°16	3°21	13°48	3° 1	15°R44	0°14	1° 1	12° 7	n.a.	W19
T 20	19 39 30	23°24'05	26°22	5°45	12°58	0♋28	19°D16	3°28	13°47	3° 0	15°44	0°R14	0°58	12°13	n.a.	T 20
F 21	19 43 27	24°21'51	8♏12	7°32	12°27	1° 7	19°16	3°36	13°47	2°58	15°44	0°13	0°54	12°20	n.a.	F 21
S 22	19 47 23	25°19'37	20° 3	9°17	11°57	1°45	19°16	3°43	13°47	2°57	15°44	0°10	0°51	12°27	n.a.	S 22
S 23	19 51 20	26°17'25	2♐ 0	11° 0	11°29	2°23	19°17	3°51	13°46	2°56	15°44	0° 5	0°48	12°33	n.a.	S 23
M24	19 55 17	27°15'15	14° 7	12°43	11° 3	3° 2	19°18	3°58	13°46	2°55	15°43	29♓57	0°45	12°40	n.a.	M24
T 25	19 59 13	28°13'06	26°26	14°24	10°38	3°40	19°18	4° 5	13°46	2°53	15°43	29°48	0°42	12°47	n.a.	T 25
W26	20 3 10	29°10'58	9♑ 1	16° 3	10°16	4°18	19°20	4°13	13°D46	2°52	15°43	29°37	0°39	12°53	n.a.	W26
T 27	20 7 6	0♌ 8'52	21°51	17°41	9°56	4°56	19°21	4°20	13°46	2°51	15°43	29°27	0°35	13° 0	n.a.	T 27
F 28	20 11 3	1° 6'47	4♒56	19°18	9°39	5°35	19°22	4°27	13°46	2°49	15°43	29°17	0°32	13° 7	n.a.	F 28
S 29	20 14 59	2° 4'44	18°15	20°54	9°24	6°13	19°24	4°34	13°46	2°48	15°43	29° 9	0°29	13°13	n.a.	S 29
S 30	20 18 56	3° 2'43	1♓46	22°28	9°11	6°51	19°26	4°42	13°47	2°47	15°42	29° 4	0°26	13°20	n.a.	S 30
M31	20 22 53	4♌ 0'44	15♓28	24♌ 1	9♋ 0	7♋29	19♏28	4♋49	13♏47	2♓45	15♈42	29♓ 1	0♈23	13♏27	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n37	22s10	4s 0	24n48	1n 6	17n46	3s57	23n51	0n40	17s18	0n36	23n32	0s11	16s 1	0n14	11s41	1s22	8s27	15s56	0n40	0n47	18s 2		n.a.
S 2	23 34	17 26	3 13	24 56	1 13	17 36	4 11	23 55	0 40	17 18	0 36	23 32	0 11	16 0	0 14	11 41	1 22	8 27	15 56	0 37	0 46	18 5		n.a.
M 3	23 31	11 49	2 14	25 2	1 20	17 26	4 25	23 58	0 41	17 17	0 36	23 32	0 11	16 0	0 14	11 42	1 22	8 27	15 57	0 36	0 45	18 7		n.a.
T 4	23 28	5 33	1 7	25 5	1 26	17 17	4 39	24 2	0 41	17 16	0 36	23 32	0 11	16 0	0 14	11 42	1 22	8 27	15 57	0 35	0 44	18 10		n.a.
W 5	23 24	1n 3	0n 5	25 5	1 32	17 8	4 53	24 5	0 42	17 16	0 35	23 32	0 11	15 59	0 14	11 42	1 22	8 28	15 57	0 35	0 42	18 13		n.a.
T 6	23 20	7 43	1 18	25 2	1 36	16 59	5 6	24 8	0 43	17 15	0 35	23 32	0 10	15 59	0 14	11 43	1 22	8 28	15 58	0 35	0 41	18 16		n.a.
F 7	23 15	14 6	2 28	24 57	1 40	16 51	5 19	24 11	0 43	17 15	0 35	23 32	0 10	15 59	0 14	11 43	1 22	8 28	15 58	0 34	0 40	18 19		n.a.
S 8	23 10	19 49	3 28	24 49	1 43	16 43	5 32	24 14	0 44	17 15	0 35	23 32	0 10	15 58	0 14	11 43	1 22	8 28	15 58	0 33	0 38	18 21		n.a.
S 9	23 5	24 26	4 17	24 38	1 45	16 36	5 44	24 17	0 44	17 14	0 34	23 31	0 10	15 58	0 14	11 44	1 22	8 28	15 59	0 31	0 37	18 24		n.a.
M10	22 59	27 31	4 48	24 25	1 47	16 29	5 56	24 19	0 45	17 14	0 34	23 31	0 10	15 58	0 14	11 44	1 22	8 29	15 59	0 28	0 36	18 27		n.a.
T 11	22 53	28 43	5 1	24 10	1 48	16 23	6 7	24 21	0 45	17 14	0 34	23 31	0 10	15 58	0 14	11 44	1 22	8 29	15 59	0 24	0 35	18 30		n.a.
W12	22 46	27 56	4 54	23 52	1 48	16 17	6 17	24 23	0 46	17 13	0 34	23 31	0 10	15 58	0 14	11 45	1 22	8 29	15 59	0 19	0 33	18 32		n.a.
T 13	22 39	25 21	4 30	23 33	1 48	16 12	6 27	24 25	0 46	17 13	0 34	23 31	0 10	15 57	0 14	11 45	1 23	8 29	16 0	0 15	0 32	18 35		n.a.
F 14	22 32	21 19	3 50	23 12	1 47	16 7	6 36	24 27	0 47	17 13	0 33	23 31	0 10	15 57	0 14	11 46	1 23	8 29	16 0	0 11	0 31	18 38		n.a.
S 15	22 24	16 18	2 58	22 48	1 45	16 3	6 45	24 28	0 47	17 13	0 33	23 31	0 10	15 57	0 14	11 46	1 23	8 30	16 0	0 8	0 30	18 41		n.a.
S 16	22 16	10 41	1 58	22 24	1 43	16 0	6 53	24 29	0 48	17 13	0 33	23 31	0 10	15 57	0 14	11 47	1 23	8 30	16 1	0 6	0 28	18 43		n.a.
M17	22 8	4 47	0 54	21 57	1 40	15 56	7 0	24 30	0 48	17 13	0 33	23 31	0 10	15 57	0 14	11 47	1 23	8 30	16 1	0 6	0 27	18 46		n.a.
T 18	21 59	1s 8	0s12	21 29	1 37	15 54	7 6	24 31	0 49	17 13	0 32	23 31	0 9	15 57	0 14	11 47	1 23	8 30	16 1	0 5	0 26	18 49		n.a.
W19	21 49	6 55	1 15	21 0	1 34	15 52	7 11	24 32	0 49	17 13	0 32	23 31	0 9	15 56	0 14	11 48	1 23	8 31	16 2	0 6	0 24	18 52		n.a.
T 20	21 39	12 22	2 15	20 30	1 30	15 51	7 16	24 32	0 50	17 14	0 32	23 31	0 9	15 56	0 14	11 48	1 23	8 31	16 2	0 6	0 23	18 54		n.a.
F 21	21 29	17 21	3 8	19 58	1 26	15 50	7 20	24 33	0 50	17 14	0 32	23 31	0 9	15 56	0 14	11 49	1 23	8 31	16 2	0 5	0 22	18 57		n.a.
S 22	21 19	21 41	3 53	19 26	1 21	15 49	7 23	24 33	0 51	17 14	0 32	23 30	0 9	15 56	0 14	11 49	1 23	8 32	16 3	0 4	0 21	19 0		n.a.
S 23	21 8	25 11	4 28	18 53	1 16	15 49	7 25	24 33	0 51	17 15	0 31	23 30	0 9	15 56	0 14	11 50	1 23	8 32	16 3	0 2	0 19	19 3		n.a.
M24	20 57	27 35	4 52	18 18	1 10	15 50	7 26	24 32	0 52	17 15	0 31	23 30	0 9	15 56	0 14	11 50	1 23	8 32	16 3	0s 1	0 18	19 5		n.a.
T 25	20 45	28 43	5 3	17 44	1 5	15 51	7 27	24 32	0 52	17 15	0 31	23 30	0 9	15 56	0 14	11 51	1 23	8 33	16 3	0 5	0 17	19 8		n.a.
W26	20 33	28 23	5 0	17 8	0 58	15 53	7 27	24 31	0 53	17 16	0 31	23 30	0 9	15 56	0 14	11 51	1 23	8 33	16 4	0 9	0 15	19 11		n.a.
T 27	20 21	26 32	4 41	16 32	0 52	15 55	7 26	24 30	0 53	17 17	0 30	23 30	0 9	15 56	0 14	11 52	1 23	8 33	16 4	0 13	0 14	19 13		n.a.
F 28	20 8	23 15	4 8	15 55	0 46	15 57	7 25	24 29	0 54	17 17	0 30	23 30	0 9	15 56	0 13	11 52	1 23	8 34	16 4	0 17	0 13	19 16		n.a.
S 29	19 55	18 42	3 20	15 18	0 39	16 0	7 23	24 28	0 54	17 18	0 30	23 29	0 9	15 56	0 13	11 53	1 23	8 34	16 5	0 20	0 12	19 19		n.a.
S 30	19 42	13 9	2 21	14 41	0 32	16 4	7 21	24 27	0 55	17 19	0 30	23 29	0 8	15 56	0 13	11 53	1 23	8 34	16 5	0 23	0 10	19 21		n.a.
M31	19n28	6s54	1s12	14n 3	0n24	16n 7	7s18	24n25	0n55	17s19	0n30	23n29	0s 8	15s56	0n13	11s54	1s23	8s35	16s 5	0s24	0n 9	19s24		n.a.

Julian Day Number = 1678870.5, Delta T = 03h16m33s
Ecliptic obliquity = 23°42'42, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'28, Lahiri = - 5°33'27 Julian Calendar 1 July 117 BCE == Greg. Calendar 28 June 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

AUGUST 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 26 49	4♌58'46	29♓18	25♌33	8°R52	8♋ 7	19♏30	4♋56	13♏47	2°R44	15°R42	29°D 0	0♈19	13♏33	n.a.	T 1
W 2	20 30 46	5°56'51	13♈15	27° 3	8♋47	8°45	19°32	5° 3	13°47	2♓43	15♈42	29♓ 1	0°16	13°40	n.a.	W 2
T 3	20 34 42	6°54'58	27°18	28°32	8°44	9°23	19°35	5°10	13°48	2°41	15°41	29° 2	0°13	13°47	n.a.	T 3
F 4	20 38 39	7°53'07	11♉26	29°59	8°D43	10° 1	19°38	5°17	13°48	2°40	15°41	29°R 2	0°10	13°53	n.a.	F 4
S 5	20 42 35	8°51'18	25°37	1♍26	8°44	10°39	19°41	5°24	13°49	2°38	15°41	29° 1	0° 7	14° 0	n.a.	S 5
S 6	20 46 32	9°49'31	9♊51	2°51	8°48	11°17	19°44	5°31	13°49	2°37	15°40	28°57	0° 4	14° 7	n.a.	S 6
M 7	20 50 28	10°47'47	24° 4	4°15	8°54	11°55	19°47	5°38	13°50	2°35	15°40	28°52	0° 0	14°13	n.a.	M 7
T 8	20 54 25	11°46'04	8♋11	5°37	9° 3	12°33	19°51	5°44	13°50	2°34	15°40	28°45	29♓57	14°20	n.a.	T 8
W 9	20 58 22	12°44'24	22°10	6°58	9°13	13°11	19°54	5°51	13°51	2°32	15°39	28°38	29°54	14°27	n.a.	W 9
T 10	21 2 18	13°42'46	5♌56	8°17	9°26	13°49	19°58	5°58	13°52	2°31	15°39	28°30	29°51	14°34	n.a.	T 10
F 11	21 6 15	14°41'09	19°26	9°35	9°40	14°26	20° 2	6° 5	13°53	2°29	15°38	28°24	29°48	14°40	n.a.	F 11
S 12	21 10 11	15°39'35	2♍36	10°51	9°57	15° 4	20° 6	6°11	13°53	2°27	15°38	28°19	29°45	14°47	n.a.	S 12
S 13	21 14 8	16°38'02	15°28	12° 6	10°16	15°42	20°10	6°18	13°54	2°26	15°37	28°17	29°41	14°54	n.a.	S 13
M14	21 18 4	17°36'31	28° 0	13°18	10°36	16°20	20°15	6°24	13°55	2°24	15°37	28°D16	29°38	15° 0	n.a.	M14
T 15	21 22 1	18°35'02	10♎16	14°29	10°58	16°57	20°20	6°31	13°56	2°23	15°36	28°16	29°35	15° 7	n.a.	T 15
W16	21 25 57	19°33'35	22°20	15°38	11°22	17°35	20°24	6°37	13°57	2°21	15°36	28°18	29°32	15°14	n.a.	W16
T 17	21 29 54	20°32'09	4♏14	16°45	11°48	18°13	20°30	6°44	13°58	2°19	15°35	28°19	29°29	15°20	n.a.	T 17
F 18	21 33 50	21°30'45	16° 5	17°50	12°15	18°50	20°35	6°50	13°59	2°18	15°35	28°R21	29°25	15°27	n.a.	F 18
S 19	21 37 47	22°29'24	27°57	18°53	12°44	19°28	20°40	6°56	14° 1	2°16	15°34	28°20	29°22	15°34	n.a.	S 19
S 20	21 41 44	23°28'04	9♐55	19°53	13°14	20° 5	20°46	7° 2	14° 2	2°14	15°33	28°19	29°19	15°40	n.a.	S 20
M21	21 45 40	24°26'45	22° 3	20°51	13°46	20°43	20°51	7° 8	14° 3	2°13	15°33	28°16	29°16	15°47	n.a.	M21
T 22	21 49 37	25°25'29	4♑27	21°46	14°19	21°20	20°57	7°14	14° 4	2°11	15°32	28°12	29°13	15°54	n.a.	T 22
W23	21 53 33	26°24'15	17° 8	22°38	14°53	21°58	21° 3	7°20	14° 6	2°10	15°31	28° 7	29°10	16° 0	n.a.	W23
T 24	21 57 30	27°23'02	0♒ 9	23°26	15°29	22°35	21° 9	7°26	14° 7	2° 8	15°31	28° 2	29° 6	16° 7	n.a.	T 24
F 25	22 1 26	28°21'51	13°30	24°11	16° 6	23°13	21°15	7°32	14° 9	2° 6	15°30	27°57	29° 3	16°14	n.a.	F 25
S 26	22 5 23	29°20'43	27°10	24°53	16°45	23°50	21°22	7°38	14°10	2° 5	15°29	27°53	29° 0	16°21	n.a.	S 26
S 27	22 9 19	0♍19'36	11♓ 5	25°30	17°24	24°27	21°28	7°44	14°12	2° 3	15°29	27°51	28°57	16°27	n.a.	S 27
M28	22 13 16	1°18'32	25°13	26° 3	18° 5	25° 5	21°35	7°49	14°13	2° 1	15°28	27°D50	28°54	16°34	n.a.	M28
T 29	22 17 13	2°17'29	9♈29	26°31	18°47	25°42	21°42	7°55	14°15	2° 0	15°27	27°50	28°51	16°41	n.a.	T 29
W30	22 21 9	3°16'29	23°49	26°54	19°30	26°19	21°49	8° 1	14°17	1°58	15°26	27°52	28°47	16°47	n.a.	W30
T 31	22 25 6	4♍15'32	8♉ 9	27♍11	20♋14	26♋56	21♏56	8♋ 6	14♏19	1♓56	15♈25	27♓53	28♓44	16♏54	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	19n14	0s16	0n 2	13n25	0n17	16n11	7s14	24n23	0n56	17s20	0n29	23n29	0s 8	15s57	0n13	11s55	1s23	8s35	16s 6	0s24	0n 8	19s27		n.a.
W 2	19 0	6n27	1 16	12 47	0 9	16 16	7 10	24 21	0 56	17 21	0 29	23 29	0 8	15 57	0 13	11 55	1 23	8 35	16 6	0 24	0 7	19 29		n.a.
T 3	18 45	12 53	2 26	12 8	0 2	16 20	7 6	24 19	0 57	17 22	0 29	23 28	0 8	15 57	0 13	11 56	1 23	8 36	16 6	0 23	0 5	19 32		n.a.
F 4	18 30	18 43	3 28	11 30	0s 6	16 25	7 1	24 17	0 57	17 23	0 29	23 28	0 8	15 57	0 13	11 56	1 23	8 36	16 6	0 23	0 4	19 35		n.a.
S 5	18 15	23 32	4 17	10 52	0 15	16 30	6 56	24 14	0 58	17 24	0 29	23 28	0 8	15 57	0 13	11 57	1 23	8 37	16 7	0 24	0 3	19 37		n.a.
S 6	17 59	26 58	4 51	10 13	0 23	16 35	6 51	24 12	0 58	17 25	0 28	23 28	0 8	15 57	0 13	11 57	1 23	8 37	16 7	0 25	0 1	19 40		n.a.
M 7	17 43	28 41	5 6	9 35	0 31	16 41	6 45	24 9	0 59	17 26	0 28	23 28	0 8	15 58	0 13	11 58	1 23	8 37	16 7	0 27	0 0	19 43		n.a.
T 8	17 27	28 30	5 3	8 57	0 39	16 46	6 39	24 6	0 59	17 27	0 28	23 27	0 8	15 58	0 13	11 58	1 23	8 38	16 8	0 30	0s 1	19 45		n.a.
W 9	17 11	26 30	4 42	8 19	0 48	16 52	6 32	24 2	1 0	17 28	0 28	23 27	0 8	15 58	0 13	11 59	1 23	8 38	16 8	0 33	0 2	19 48		n.a.
T 10	16 54	22 57	4 5	7 41	0 56	16 57	6 26	23 59	1 0	17 30	0 27	23 27	0 8	15 58	0 13	12 0	1 24	8 39	16 8	0 36	0 4	19 51		n.a.
F 11	16 37	18 14	3 14	7 4	1 5	17 3	6 19	23 55	1 1	17 31	0 27	23 27	0 7	15 58	0 13	12 0	1 24	8 39	16 8	0 39	0 5	19 53		n.a.
S 12	16 19	12 45	2 14	6 27	1 14	17 9	6 12	23 52	1 1	17 32	0 27	23 27	0 7	15 59	0 13	12 1	1 24	8 39	16 9	0 40	0 6	19 56		n.a.
S 13	16 2	6 51	1 9	5 50	1 22	17 14	6 5	23 48	1 2	17 34	0 27	23 26	0 7	15 59	0 13	12 1	1 24	8 40	16 9	0 42	0 7	19 59		n.a.
M14	15 44	0 49	0 1	5 14	1 31	17 20	5 58	23 44	1 2	17 35	0 27	23 26	0 7	15 59	0 13	12 2	1 24	8 40	16 9	0 42	0 9	20 1		n.a.
T 15	15 26	5s 6	1s 5	4 39	1 40	17 26	5 51	23 39	1 3	17 36	0 26	23 26	0 7	16 0	0 13	12 3	1 24	8 41	16 10	0 42	0 10	20 4		n.a.
W16	15 7	10 45	2 7	4 4	1 48	17 31	5 43	23 35	1 3	17 38	0 26	23 26	0 7	16 0	0 13	12 3	1 24	8 41	16 10	0 41	0 11	20 6		n.a.
T 17	14 49	15 57	3 3	3 30	1 57	17 36	5 36	23 30	1 4	17 39	0 26	23 25	0 7	16 0	0 13	12 4	1 24	8 42	16 10	0 40	0 13	20 9		n.a.
F 18	14 30	20 31	3 51	2 56	2 5	17 42	5 28	23 26	1 4	17 41	0 26	23 25	0 7	16 1	0 13	12 4	1 24	8 42	16 10	0 40	0 14	20 12		n.a.
S 19	14 10	24 18	4 29	2 24	2 14	17 47	5 20	23 21	1 4	17 43	0 26	23 25	0 7	16 1	0 13	12 5	1 24	8 43	16 11	0 40	0 15	20 14		n.a.
S 20	13 51	27 4	4 56	1 53	2 22	17 52	5 13	23 16	1 5	17 44	0 25	23 25	0 7	16 1	0 13	12 6	1 24	8 43	16 11	0 41	0 16	20 17		n.a.
M21	13 31	28 38	5 10	1 22	2 30	17 56	5 5	23 10	1 5	17 46	0 25	23 24	0 7	16 2	0 13	12 6	1 24	8 43	16 11	0 42	0 18	20 19		n.a.
T 22	13 11	28 48	5 10	0 53	2 38	18 1	4 57	23 5	1 6	17 48	0 25	23 24	0 7	16 2	0 13	12 7	1 24	8 44	16 11	0 43	0 19	20 22		n.a.
W23	12 51	27 28	4 55	0 26	2 46	18 5	4 49	22 59	1 6	17 49	0 25	23 24	0 6	16 3	0 13	12 8	1 24	8 44	16 12	0 45	0 20	20 24		n.a.
T 24	12 31	24 39	4 25	0s 1	2 53	18 9	4 41	22 54	1 7	17 51	0 25	23 24	0 6	16 3	0 13	12 8	1 24	8 45	16 12	0 48	0 22	20 27		n.a.
F 25	12 11	20 27	3 39	0 25	3 0	18 12	4 33	22 48	1 7	17 53	0 24	23 23	0 6	16 4	0 13	12 9	1 24	8 45	16 12	0 49	0 23	20 30		n.a.
S 26	11 50	15 6	2 40	0 48	3 7	18 16	4 25	22 42	1 8	17 55	0 24	23 23	0 6	16 4	0 13	12 9	1 24	8 46	16 12	0 51	0 24	20 32		n.a.
S 27	11 29	8 53	1 31	1 9	3 13	18 19	4 17	22 36	1 8	17 57	0 24	23 23	0 6	16 5	0 13	12 10	1 24	8 46	16 12	0 52	0 25	20 35		n.a.
M28	11 8	2 8	0 14	1 27	3 19	18 21	4 10	22 29	1 9	17 59	0 24	23 23	0 6	16 5	0 13	12 11	1 24	8 47	16 13	0 52	0 27	20 37		n.a.
T 29	10 47	4n46	1n 4	1 43	3 25	18 23	4 2	22 23	1 9	18 1	0 24	23 22	0 6	16 6	0 13	12 11	1 24	8 47	16 13	0 52	0 28	20 40		n.a.
W30	10 25	11 29	2 18	1 57	3 29	18 25	3 54	22 16	1 10	18 3	0 24	23 22	0 6	16 6	0 13	12 12	1 24	8 48	16 13	0 52	0 29	20 42		n.a.
T 31	10n 4	17n36	3n24	2s 8	3s33	18n27	3s46	22n 9	1n10	18s 5	0n23	23n22	0s 6	16s 7	0n13	12s12	1s24	8s48	16s13	0s51	0s30	20s45		n.a.

Julian Day Number = 1678901.5, Delta T = 03h16m32s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'23, Lahiri = - 5°33'23 Julian Calendar 1 Aug. 117 BCE == Greg. Calendar 29 July 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

SEPTEMBER 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 29 2	5♍14'37	22♉27	27♍22	20♋58	27♋34	22♏ 4	8♋11	14♏20	1°R55	15°R25	27♓54	28♓41	17♏ 1	n.a.	F 1
S 2	22 32 59	6°13'44	6♊38	27°R27	21°44	28°11	22°11	8°17	14°22	1♓53	15♈24	27°R55	28°38	17° 7	n.a.	S 2
S 3	22 36 55	7°12'54	20°42	27°25	22°31	28°48	22°19	8°22	14°24	1°51	15°23	27°54	28°35	17°14	n.a.	S 3
M 4	22 40 52	8°12'07	4♋37	27°16	23°19	29°25	22°26	8°27	14°26	1°50	15°22	27°53	28°31	17°21	n.a.	M 4
T 5	22 44 48	9°11'22	18°21	26°59	24° 7	0♌ 2	22°34	8°32	14°28	1°48	15°21	27°51	28°28	17°27	n.a.	T 5
W 6	22 48 45	10°10'39	1♌53	26°34	24°57	0°39	22°42	8°37	14°30	1°46	15°20	27°48	28°25	17°34	n.a.	W 6
T 7	22 52 42	11° 9'59	15°12	26° 1	25°47	1°16	22°50	8°42	14°32	1°45	15°19	27°45	28°22	17°41	n.a.	T 7
F 8	22 56 38	12° 9'20	28°18	25°21	26°38	1°53	22°59	8°47	14°34	1°43	15°18	27°43	28°19	17°47	n.a.	F 8
S 9	23 0 35	13° 8'44	11♍ 8	24°33	27°29	2°30	23° 7	8°52	14°37	1°41	15°18	27°42	28°16	17°54	n.a.	S 9
S 10	23 4 31	14° 8'10	23°45	23°37	28°21	3° 7	23°16	8°57	14°39	1°40	15°17	27°D41	28°12	18° 1	n.a.	S 10
M11	23 8 28	15° 7'39	6♎ 7	22°35	29°14	3°44	23°24	9° 1	14°41	1°38	15°16	27°42	28° 9	18° 8	n.a.	M11
T 12	23 12 24	16° 7'09	18°17	21°28	0♌ 8	4°21	23°33	9° 6	14°43	1°37	15°15	27°42	28° 6	18°14	n.a.	T 12
W13	23 16 21	17° 6'41	0♏18	20°18	1° 2	4°58	23°42	9°10	14°46	1°35	15°14	27°43	28° 3	18°21	n.a.	W13
T 14	23 20 17	18° 6'15	12°11	19° 5	1°57	5°34	23°51	9°14	14°48	1°33	15°13	27°44	28° 0	18°28	n.a.	T 14
F 15	23 24 14	19° 5'51	24° 1	17°53	2°53	6°11	24° 0	9°19	14°50	1°32	15°12	27°45	27°56	18°34	n.a.	F 15
S 16	23 28 10	20° 5'29	5♐52	16°42	3°49	6°48	24°10	9°23	14°53	1°30	15°11	27°46	27°53	18°41	n.a.	S 16
S 17	23 32 7	21° 5'09	17°49	15°36	4°45	7°25	24°19	9°27	14°55	1°29	15°10	27°R46	27°50	18°48	n.a.	S 17
M18	23 36 4	22° 4'51	29°56	14°36	5°43	8° 1	24°28	9°31	14°58	1°27	15° 9	27°46	27°47	18°54	n.a.	M18
T 19	23 40 0	23° 4'35	12♑17	13°44	6°40	8°38	24°38	9°35	15° 1	1°26	15° 8	27°46	27°44	19° 1	n.a.	T 19
W20	23 43 57	24° 4'21	24°58	13° 1	7°38	9°15	24°48	9°39	15° 3	1°24	15° 7	27°45	27°41	19° 8	n.a.	W20
T 21	23 47 53	25° 4'08	8♒ 1	12°28	8°37	9°51	24°58	9°42	15° 6	1°23	15° 6	27°45	27°37	19°14	n.a.	T 21
F 22	23 51 50	26° 3'57	21°27	12° 7	9°36	10°28	25° 8	9°46	15° 9	1°21	15° 5	27°45	27°34	19°21	n.a.	F 22
S 23	23 55 46	27° 3'48	5♓18	11°D57	10°36	11° 4	25°18	9°49	15°11	1°20	15° 3	27°45	27°31	19°28	n.a.	S 23
S 24	23 59 43	28° 3'41	19°31	11°58	11°36	11°41	25°28	9°53	15°14	1°18	15° 2	27°45	27°28	19°35	n.a.	S 24
M25	0 3 39	29° 3'36	4♈ 2	12°10	12°36	12°17	25°38	9°56	15°17	1°17	15° 1	27°45	27°25	19°41	n.a.	M25
T 26	0 7 36	0♎ 3'32	18°46	12°33	13°37	12°53	25°49	9°59	15°20	1°15	15° 0	27°45	27°22	19°48	n.a.	T 26
W27	0 11 33	1° 3'31	3♉34	13° 5	14°39	13°30	25°59	10° 3	15°22	1°14	14°59	27°44	27°18	19°55	n.a.	W27
T 28	0 15 29	2° 3'33	18°20	13°46	15°41	14° 6	26°10	10° 6	15°25	1°13	14°58	27°44	27°15	20° 1	n.a.	T 28
F 29	0 19 26	3° 3'36	2♊58	14°36	16°43	14°42	26°20	10° 9	15°28	1°11	14°57	27°43	27°12	20° 8	n.a.	F 29
S 30	0 23 22	4♎ 3'42	17♊21	15♍32	17♌45	15♌19	26♏31	10♋11	15♏31	1♓10	14♈56	27♓43	27♓ 9	20♏15	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n42	22n43	4n17	2s15	3s37	18n28	3s38	22n 2	1n11	18s 7	0n23	23n22	0s 6	16s 7	0n13	12s13	1s24	8s49	16s13	0s51	0s32	20s47		n.a.
S 2	9 20	26 29	4 54	2 19	3 39	18 28	3 30	21 55	1 11	18 9	0 23	23 21	0 6	16 8	0 13	12 14	1 24	8 49	16 14	0 50	0 33	20 50		n.a.
S 3	8 58	28 35	5 13	2 19	3 40	18 29	3 22	21 48	1 12	18 11	0 23	23 21	0 6	16 8	0 13	12 14	1 24	8 50	16 14	0 51	0 34	20 52		n.a.
M 4	8 35	28 50	5 13	2 15	3 40	18 28	3 15	21 41	1 12	18 13	0 23	23 21	0 5	16 9	0 13	12 15	1 24	8 50	16 14	0 51	0 36	20 55		n.a.
T 5	8 13	27 19	4 55	2 7	3 39	18 28	3 7	21 33	1 13	18 16	0 22	23 21	0 5	16 10	0 13	12 15	1 24	8 51	16 14	0 52	0 37	20 57		n.a.
W 6	7 50	24 12	4 21	1 55	3 36	18 27	2 59	21 26	1 13	18 18	0 22	23 20	0 5	16 10	0 13	12 16	1 24	8 51	16 14	0 53	0 38	21 0		n.a.
T 7	7 28	19 51	3 34	1 38	3 31	18 25	2 52	21 18	1 14	18 20	0 22	23 20	0 5	16 11	0 13	12 17	1 24	8 52	16 15	0 54	0 39	21 2		n.a.
F 8	7 5	14 38	2 35	1 16	3 25	18 23	2 44	21 10	1 14	18 22	0 22	23 20	0 5	16 12	0 13	12 17	1 24	8 52	16 15	0 55	0 41	21 5		n.a.
S 9	6 42	8 51	1 30	0 49	3 17	18 20	2 37	21 2	1 14	18 25	0 22	23 20	0 5	16 12	0 13	12 18	1 24	8 53	16 15	0 55	0 42	21 7		n.a.
S 10	6 19	2 51	0 22	0 18	3 7	18 17	2 30	20 54	1 15	18 27	0 22	23 19	0 5	16 13	0 13	12 18	1 24	8 53	16 15	0 56	0 43	21 10		n.a.
M11	5 55	3s10	0s47	0n18	2 55	18 13	2 22	20 46	1 15	18 29	0 21	23 19	0 5	16 14	0 13	12 19	1 24	8 54	16 15	0 56	0 45	21 12		n.a.
T 12	5 32	8 58	1 52	0 57	2 41	18 9	2 15	20 37	1 16	18 32	0 21	23 19	0 5	16 14	0 13	12 20	1 24	8 54	16 15	0 55	0 46	21 15		n.a.
W13	5 9	14 22	2 51	1 40	2 25	18 5	2 8	20 29	1 16	18 34	0 21	23 19	0 5	16 15	0 13	12 20	1 24	8 55	16 16	0 55	0 47	21 17		n.a.
T 14	4 45	19 11	3 42	2 25	2 8	17 59	2 1	20 20	1 17	18 37	0 21	23 19	0 5	16 16	0 13	12 21	1 24	8 55	16 16	0 55	0 48	21 20		n.a.
F 15	4 22	23 15	4 24	3 10	1 49	17 54	1 54	20 11	1 17	18 39	0 21	23 18	0 4	16 16	0 13	12 21	1 24	8 56	16 16	0 54	0 50	21 22		n.a.
S 16	3 58	26 21	4 54	3 56	1 29	17 47	1 47	20 2	1 18	18 42	0 21	23 18	0 4	16 17	0 12	12 22	1 24	8 56	16 16	0 54	0 51	21 25		n.a.
S 17	3 34	28 20	5 12	4 41	1 9	17 41	1 40	19 53	1 18	18 44	0 20	23 18	0 4	16 18	0 12	12 22	1 24	8 57	16 16	0 54	0 52	21 27		n.a.
M18	3 11	29 0	5 17	5 23	0 48	17 33	1 33	19 44	1 19	18 47	0 20	23 18	0 4	16 19	0 12	12 23	1 24	8 57	16 16	0 54	0 53	21 29		n.a.
T 19	2 47	28 14	5 7	6 2	0 28	17 26	1 26	19 35	1 19	18 49	0 20	23 18	0 4	16 20	0 12	12 24	1 24	8 58	16 16	0 54	0 55	21 32		n.a.
W20	2 23	26 0	4 42	6 37	0 8	17 17	1 20	19 25	1 20	18 52	0 20	23 17	0 4	16 20	0 12	12 24	1 24	8 58	16 16	0 54	0 56	21 34		n.a.
T 21	1 59	22 22	4 2	7 7	0n11	17 8	1 13	19 16	1 20	18 54	0 20	23 17	0 4	16 21	0 12	12 25	1 24	8 59	16 16	0 54	0 57	21 37		n.a.
F 22	1 35	17 28	3 8	7 32	0 28	16 59	1 7	19 6	1 21	18 57	0 20	23 17	0 4	16 22	0 12	12 25	1 24	8 59	16 17	0 54	0 59	21 39		n.a.
S 23	1 11	11 33	2 1	7 51	0 45	16 49	1 0	18 57	1 21	18 59	0 20	23 17	0 4	16 23	0 12	12 26	1 24	9 0	16 17	0 54	1 0	21 42		n.a.
S 24	0 47	4 53	0 46	8 4	1 0	16 38	0 54	18 47	1 21	19 2	0 19	23 17	0 4	16 24	0 12	12 26	1 24	9 0	16 17	0 54	1 1	21 44		n.a.
M25	0 23	2n 9	0n35	8 12	1 13	16 27	0 48	18 37	1 22	19 5	0 19	23 17	0 4	16 24	0 12	12 27	1 24	9 1	16 17	0 54	1 2	21 46		n.a.
T 26	0s 1	9 11	1 54	8 14	1 25	16 16	0 41	18 27	1 22	19 7	0 19	23 16	0 3	16 25	0 12	12 27	1 24	9 1	16 17	0 54	1 4	21 49		n.a.
W27	0 26	15 45	3 6	8 11	1 35	16 4	0 35	18 17	1 23	19 10	0 19	23 16	0 3	16 26	0 12	12 28	1 24	9 2	16 17	0 55	1 5	21 51		n.a.
T 28	0 50	21 24	4 5	8 3	1 44	15 51	0 30	18 7	1 23	19 13	0 19	23 16	0 3	16 27	0 12	12 28	1 24	9 2	16 17	0 55	1 6	21 53		n.a.
F 29	1 14	25 42	4 48	7 50	1 51	15 38	0 24	17 56	1 24	19 15	0 19	23 16	0 3	16 28	0 12	12 29	1 24	9 3	16 17	0 55	1 8	21 56		n.a.
S 30	1s38	28n17	5n12	7n33	1n57	15n24	0s18	17n46	1n24	19s18	0n18	23n16	0s 3	16s29	0n12	12s29	1s24	9s 3	16s17	0s55	1s 9	21s58		n.a.

Julian Day Number = 1678932.5, Delta T = 03h16m31s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'19, Lahiri = - 5°33'19 Julian Calendar 1 Sept. 117 BCE == Greg. Calendar 29 Aug. 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

OCTOBER 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 27 19	5♎ 3'50	1♋28	16♍35	18♌48	15♌55	26♏42	10♋14	15♏34	1°R 8	14°R55	27°D43	27♓ 6	20♏21	n.a.	S 1
M 2	0 31 15	6° 4'01	15°16	17°44	19°51	16°31	26°53	10°17	15°37	1♓ 7	14♈54	27♓43	27° 2	20°28	n.a.	M 2
T 3	0 35 12	7° 4'13	28°47	18°57	20°55	17° 7	27° 4	10°19	15°40	1° 6	14°52	27°43	26°59	20°35	n.a.	T 3
W 4	0 39 8	8° 4'28	11♌59	20°15	21°59	17°43	27°15	10°22	15°43	1° 5	14°51	27°44	26°56	20°42	n.a.	W 4
T 5	0 43 5	9° 4'45	24°56	21°36	23° 3	18°19	27°27	10°24	15°47	1° 3	14°50	27°45	26°53	20°48	n.a.	T 5
F 6	0 47 2	10° 5'04	7♍39	23° 0	24° 8	18°55	27°38	10°26	15°50	1° 2	14°49	27°46	26°50	20°55	n.a.	F 6
S 7	0 50 58	11° 5'25	20° 9	24°27	25°13	19°31	27°49	10°28	15°53	1° 1	14°48	27°47	26°47	21° 2	n.a.	S 7
S 8	0 54 55	12° 5'47	2♎29	25°55	26°18	20° 7	28° 1	10°30	15°56	1° 0	14°47	27°R47	26°43	21° 8	n.a.	S 8
M 9	0 58 51	13° 6'12	14°39	27°26	27°23	20°43	28°13	10°32	15°59	0°59	14°46	27°46	26°40	21°15	n.a.	M 9
T 10	1 2 48	14° 6'38	26°41	28°58	28°29	21°19	28°24	10°34	16° 2	0°58	14°45	27°45	26°37	21°22	n.a.	T 10
W11	1 6 44	15° 7'06	8♏37	0♎31	29°35	21°55	28°36	10°36	16° 6	0°56	14°43	27°42	26°34	21°28	n.a.	W11
T 12	1 10 41	16° 7'36	20°28	2° 4	0♍41	22°31	28°48	10°37	16° 9	0°55	14°42	27°39	26°31	21°35	n.a.	T 12
F 13	1 14 37	17° 8'07	2♐18	3°39	1°48	23° 6	29° 0	10°39	16°12	0°54	14°41	27°36	26°28	21°42	n.a.	F 13
S 14	1 18 34	18° 8'40	14° 9	5°14	2°55	23°42	29°12	10°40	16°16	0°53	14°40	27°33	26°24	21°48	n.a.	S 14
S 15	1 22 30	19° 9'15	26° 4	6°49	4° 2	24°18	29°24	10°41	16°19	0°52	14°39	27°30	26°21	21°55	n.a.	S 15
M16	1 26 27	20° 9'51	8♑ 8	8°25	5° 9	24°53	29°36	10°42	16°22	0°51	14°38	27°28	26°18	22° 2	n.a.	M16
T 17	1 30 24	21°10'28	20°25	10° 1	6°16	25°29	29°48	10°43	16°26	0°50	14°37	27°D28	26°15	22° 9	n.a.	T 17
W18	1 34 20	22°11'06	3♒ 0	11°37	7°24	26° 4	0♐ 1	10°44	16°29	0°50	14°36	27°28	26°12	22°15	n.a.	W18
T 19	1 38 17	23°11'46	15°56	13°12	8°32	26°40	0°13	10°45	16°33	0°49	14°34	27°30	26° 8	22°22	n.a.	T 19
F 20	1 42 13	24°12'27	29°17	14°48	9°40	27°15	0°25	10°46	16°36	0°48	14°33	27°31	26° 5	22°29	n.a.	F 20
S 21	1 46 10	25°13'09	13♓ 5	16°24	10°48	27°50	0°38	10°46	16°40	0°47	14°32	27°33	26° 2	22°35	n.a.	S 21
S 22	1 50 6	26°13'52	27°22	18° 0	11°57	28°26	0°50	10°46	16°43	0°46	14°31	27°R33	25°59	22°42	n.a.	S 22
M23	1 54 3	27°14'37	12♈ 2	19°36	13° 5	29° 1	1° 3	10°47	16°47	0°45	14°30	27°32	25°56	22°49	n.a.	M23
T 24	1 57 59	28°15'23	27° 2	21°11	14°14	29°36	1°16	10°47	16°50	0°45	14°29	27°30	25°53	22°55	n.a.	T 24
W25	2 1 56	29°16'11	12♉13	22°47	15°23	0♍11	1°28	10°R47	16°54	0°44	14°28	27°27	25°49	23° 2	n.a.	W25
T 26	2 5 53	0♏17'00	27°24	24°22	16°33	0°46	1°41	10°47	16°57	0°43	14°27	27°22	25°46	23° 9	n.a.	T 26
F 27	2 9 49	1°17'50	12♊26	25°57	17°42	1°21	1°54	10°47	17° 1	0°43	14°26	27°17	25°43	23°16	n.a.	F 27
S 28	2 13 46	2°18'42	27°10	27°32	18°52	1°56	2° 7	10°47	17° 4	0°42	14°25	27°12	25°40	23°22	n.a.	S 28
S 29	2 17 42	3°19'36	11♋30	29° 7	20° 1	2°31	2°20	10°46	17° 8	0°42	14°23	27° 9	25°37	23°29	n.a.	S 29
M30	2 21 39	4°20'31	25°25	0♏42	21°11	3° 6	2°33	10°46	17°12	0°41	14°22	27° 7	25°34	23°36	n.a.	M30
T 31	2 25 35	5♏21'28	8♌54	2♏17	22♍21	3♍41	2♐46	10♋45	17♏15	0♓41	14♈21	27°D 6	25♓30	23♏42	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	2s 2	28n59	5n16	7n13	2n 1	15n10	0s12	17n36	1n25	19s21	0n18	23n16	0s 3	16s30	0n12	12s30	1s24	9s 3	16s17	0s55	1s10	22s 1			n.a.
M 2	2 26	27 50	5 2	6 49	2 5	14 55	0 7	17 25	1 25	19 23	0 18	23 16	0 3	16 31	0 12	12 30	1 24	9 4	16 17	0 55	1 11	22 3			n.a.
T 3	2 50	25 4	4 32	6 22	2 7	14 40	0 1	17 14	1 26	19 26	0 18	23 15	0 3	16 31	0 12	12 30	1 24	9 4	16 17	0 55	1 13	22 5			n.a.
W 4	3 14	21 1	3 47	5 52	2 8	14 24	0n 4	17 4	1 26	19 29	0 18	23 15	0 3	16 32	0 12	12 31	1 24	9 5	16 17	0 55	1 14	22 8			n.a.
T 5	3 38	16 3	2 52	5 20	2 8	14 8	0 9	16 53	1 27	19 32	0 18	23 15	0 3	16 33	0 12	12 31	1 24	9 5	16 17	0 54	1 15	22 10			n.a.
F 6	4 2	10 29	1 49	4 46	2 8	13 51	0 14	16 42	1 27	19 34	0 18	23 15	0 3	16 34	0 12	12 32	1 24	9 6	16 17	0 54	1 16	22 12			n.a.
S 7	4 26	4 35	0 42	4 10	2 6	13 34	0 19	16 31	1 28	19 37	0 17	23 15	0 2	16 35	0 12	12 32	1 24	9 6	16 17	0 54	1 18	22 15			n.a.
S 8	4 50	1s24	0s26	3 32	2 4	13 16	0 24	16 20	1 28	19 40	0 17	23 15	0 2	16 36	0 12	12 33	1 23	9 7	16 17	0 54	1 19	22 17			n.a.
M 9	5 14	7 15	1 32	2 53	2 2	12 58	0 29	16 9	1 28	19 43	0 17	23 15	0 2	16 37	0 12	12 33	1 23	9 7	16 17	0 54	1 20	22 19			n.a.
T 10	5 38	12 46	2 33	2 13	1 58	12 40	0 34	15 58	1 29	19 45	0 17	23 15	0 2	16 38	0 12	12 33	1 23	9 7	16 17	0 54	1 22	22 22			n.a.
W11	6 1	17 47	3 27	1 33	1 55	12 21	0 38	15 46	1 29	19 48	0 17	23 15	0 2	16 39	0 12	12 34	1 23	9 8	16 17	0 55	1 23	22 24			n.a.
T 12	6 25	22 6	4 11	0 51	1 51	12 1	0 43	15 35	1 30	19 51	0 17	23 15	0 2	16 40	0 12	12 34	1 23	9 8	16 17	0 57	1 24	22 26			n.a.
F 13	6 48	25 30	4 45	0 9	1 46	11 41	0 47	15 23	1 30	19 54	0 17	23 15	0 2	16 41	0 12	12 34	1 23	9 9	16 17	0 58	1 25	22 28			n.a.
S 14	7 12	27 49	5 6	0s33	1 41	11 21	0 51	15 12	1 31	19 56	0 16	23 15	0 2	16 42	0 12	12 35	1 23	9 9	16 17	0 59	1 27	22 31			n.a.
S 15	7 35	28 53	5 14	1 16	1 36	11 0	0 55	15 0	1 31	19 59	0 16	23 15	0 2	16 43	0 12	12 35	1 23	9 9	16 17	1 0	1 28	22 33			n.a.
M16	7 58	28 36	5 9	1 59	1 31	10 39	0 59	14 49	1 32	20 2	0 16	23 15	0 2	16 44	0 12	12 35	1 23	9 10	16 17	1 1	1 29	22 35			n.a.
T 17	8 21	26 55	4 50	2 43	1 25	10 17	1 3	14 37	1 32	20 5	0 16	23 15	0 1	16 45	0 12	12 36	1 23	9 10	16 17	1 1	1 31	22 38			n.a.
W18	8 44	23 52	4 16	3 26	1 19	9 56	1 7	14 25	1 33	20 7	0 16	23 15	0 1	16 46	0 12	12 36	1 23	9 10	16 17	1 1	1 32	22 40			n.a.
T 19	9 7	19 34	3 29	4 9	1 13	9 33	1 11	14 14	1 33	20 10	0 16	23 15	0 1	16 47	0 12	12 36	1 23	9 11	16 17	1 0	1 33	22 42			n.a.
F 20	9 29	14 11	2 29	4 52	1 7	9 11	1 14	14 2	1 34	20 13	0 16	23 15	0 1	16 48	0 12	12 37	1 23	9 11	16 17	1 0	1 34	22 44			n.a.
S 21	9 52	7 55	1 19	5 36	1 0	8 48	1 18	13 50	1 34	20 16	0 16	23 15	0 1	16 49	0 12	12 37	1 23	9 12	16 17	0 59	1 36	22 47			n.a.
S 22	10 14	1 5	0 1	6 18	0 54	8 24	1 21	13 38	1 35	20 18	0 15	23 15	0 1	16 50	0 12	12 37	1 23	9 12	16 17	0 59	1 37	22 49			n.a.
M23	10 36	6n 1	1n19	7 1	0 48	8 1	1 24	13 26	1 35	20 21	0 15	23 15	0 1	16 51	0 12	12 37	1 23	9 12	16 17	0 59	1 38	22 51			n.a.
T 24	10 58	12 56	2 34	7 44	0 41	7 37	1 27	13 14	1 36	20 24	0 15	23 15	0 1	16 52	0 12	12 38	1 23	9 13	16 16	1 0	1 39	22 53			n.a.
W25	11 20	19 10	3 40	8 26	0 34	7 13	1 30	13 2	1 36	20 27	0 15	23 15	0 1	16 53	0 12	12 38	1 23	9 13	16 16	1 2	1 41	22 55			n.a.
T 26	11 42	24 11	4 30	9 7	0 28	6 48	1 33	12 50	1 36	20 29	0 15	23 15	0 1	16 54	0 12	12 38	1 23	9 13	16 16	1 4	1 42	22 58			n.a.
F 27	12 3	27 31	5 1	9 49	0 21	6 23	1 36	12 37	1 37	20 32	0 15	23 16	0 0	16 55	0 12	12 38	1 23	9 13	16 16	1 6	1 43	23 0			n.a.
S 28	12 25	28 52	5 11	10 29	0 14	5 58	1 39	12 25	1 37	20 35	0 15	23 16	0 0	16 56	0 12	12 38	1 23	9 14	16 16	1 7	1 45	23 2			n.a.
S 29	12 46	28 13	5 2	11 10	0 8	5 33	1 41	12 13	1 38	20 38	0 15	23 16	0 0	16 57	0 12	12 38	1 23	9 14	16 16	1 9	1 46	23 4			n.a.
M30	13 7	25 47	4 34	11 50	0 1	5 7	1 44	12 1	1 38	20 40	0 14	23 16	0 0	16 58	0 12	12 39	1 23	9 14	16 16	1 10	1 47	23 6			n.a.
T 31	13s27	21n58	3n53	12s29	0s 6	4n41	1n46	11n48	1n39	20s43	0n14	23n16	0s 0	16s59	0n12	12s39	1s23	9s15	16s16	1s10	1s48	23s 9			n.a.

Julian Day Number = 1678962.5, Delta T = 03h16m31s
Ecliptic obliquity = 23°42'43, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'15, Lahiri = - 5°33'15 Julian Calendar 1 Oct. 117 BCE == Greg. Calendar 28 Sept. 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

NOVEMBER 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 29 32	6♏22'26	21♌59	3♏51	23♍32	4♍16	2♐59	10°R45	17♏19	0°R40	14°R20	27♓ 7	25♓27	23♏49	n.a.	W 1
T 2	2 33 29	7°23'25	4♍44	5°26	24°42	4°50	3°12	10♋44	17°22	0♓40	14♈19	27° 9	25°24	23°56	n.a.	T 2
F 3	2 37 25	8°24'26	17°12	7° 0	25°53	5°25	3°25	10°43	17°26	0°39	14°18	27°10	25°21	24° 3	n.a.	F 3
S 4	2 41 22	9°25'28	29°27	8°35	27° 3	5°59	3°39	10°42	17°30	0°39	14°17	27°R11	25°18	24° 9	n.a.	S 4
S 5	2 45 18	10°26'31	11♎33	10° 9	28°14	6°34	3°52	10°41	17°33	0°38	14°16	27° 9	25°14	24°16	n.a.	S 5
M 6	2 49 15	11°27'35	23°31	11°43	29°25	7° 8	4° 5	10°39	17°37	0°38	14°15	27° 6	25°11	24°23	n.a.	M 6
T 7	2 53 11	12°28'41	5♏26	13°18	0♎36	7°43	4°19	10°38	17°41	0°38	14°14	27° 0	25° 8	24°29	n.a.	T 7
W 8	2 57 8	13°29'47	17°18	14°52	1°47	8°17	4°32	10°37	17°44	0°38	14°13	26°53	25° 5	24°36	n.a.	W 8
T 9	3 1 4	14°30'54	29° 8	16°27	2°58	8°51	4°45	10°35	17°48	0°37	14°12	26°43	25° 2	24°43	n.a.	T 9
F 10	3 5 1	15°32'03	11♐ 0	18° 1	4°10	9°25	4°59	10°33	17°52	0°37	14°11	26°33	24°59	24°49	n.a.	F 10
S 11	3 8 58	16°33'12	22°53	19°35	5°21	9°59	5°13	10°31	17°55	0°37	14°10	26°23	24°55	24°56	n.a.	S 11
S 12	3 12 54	17°34'21	4♑51	21°10	6°33	10°33	5°26	10°30	17°59	0°37	14° 9	26°14	24°52	25° 3	n.a.	S 12
M13	3 16 51	18°35'31	16°56	22°45	7°45	11° 7	5°40	10°28	18° 3	0°37	14° 9	26° 7	24°49	25°10	n.a.	M13
T 14	3 20 47	19°36'42	29°12	24°19	8°57	11°41	5°53	10°25	18° 6	0°D37	14° 8	26° 2	24°46	25°16	n.a.	T 14
W15	3 24 44	20°37'53	11♒41	25°54	10° 8	12°15	6° 7	10°23	18°10	0°37	14° 7	26° 0	24°43	25°23	n.a.	W15
T 16	3 28 40	21°39'04	24°30	27°29	11°20	12°49	6°21	10°21	18°14	0°37	14° 6	26°D 0	24°39	25°30	n.a.	T 16
F 17	3 32 37	22°40'15	7♓40	29° 4	12°33	13°22	6°34	10°18	18°17	0°37	14° 5	26° 0	24°36	25°36	n.a.	F 17
S 18	3 36 33	23°41'27	21°18	0♈39	13°45	13°56	6°48	10°16	18°21	0°37	14° 4	26°R 1	24°33	25°43	n.a.	S 18
S 19	3 40 30	24°42'39	5♈23	2°14	14°57	14°29	7° 2	10°13	18°25	0°37	14° 3	26° 1	24°30	25°50	n.a.	S 19
M20	3 44 27	25°43'51	19°56	3°50	16° 9	15° 3	7°16	10°11	18°28	0°37	14° 3	25°59	24°27	25°56	n.a.	M20
T 21	3 48 23	26°45'03	4♉54	5°25	17°22	15°36	7°29	10° 8	18°32	0°38	14° 2	25°54	24°24	26° 3	n.a.	T 21
W22	3 52 20	27°46'16	20° 9	7° 1	18°34	16° 9	7°43	10° 5	18°36	0°38	14° 1	25°46	24°20	26°10	n.a.	W22
T 23	3 56 16	28°47'29	5♊31	8°36	19°47	16°42	7°57	10° 2	18°39	0°38	14° 0	25°37	24°17	26°17	n.a.	T 23
F 24	4 0 13	29°48'43	20°48	10°12	20°59	17°15	8°11	9°59	18°43	0°39	13°59	25°27	24°14	26°23	n.a.	F 24
S 25	4 4 9	0♐49'57	5♋49	11°47	22°12	17°48	8°25	9°56	18°47	0°39	13°59	25°17	24°11	26°30	n.a.	S 25
S 26	4 8 6	1°51'11	20°26	13°23	23°25	18°21	8°39	9°52	18°50	0°39	13°58	25° 9	24° 8	26°37	n.a.	S 26
M27	4 12 3	2°52'26	4♌34	14°59	24°38	18°54	8°53	9°49	18°54	0°40	13°57	25° 3	24° 5	26°43	n.a.	M27
T 28	4 15 59	3°53'41	18°11	16°34	25°51	19°27	9° 7	9°46	18°57	0°40	13°57	25° 0	24° 1	26°50	n.a.	T 28
W29	4 19 56	4°54'57	1♍20	18° 9	27° 4	19°59	9°20	9°42	19° 1	0°41	13°56	24°D59	23°58	26°57	n.a.	W29
T 30	4 23 52	5♐56'12	14♍ 4	19♐44	28♎17	20♍32	9♐34	9♋38	19♏ 5	0♓41	13♈55	24♓59	23♓55	27♏ 4	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s48	17n10	3n 0	13s 8	0s12	4n15	1n48	11n36	1n39	20s46	0n14	23n16	0n 0	17s 0	0n12	12s39	1s23	9s15	16s15	1s 9	1s50	23s11		n.a.
T 2	14 8	11 44	1 59	13 46	0 19	3 49	1 50	11 23	1 40	20 48	0 14	23 16	0 0	17 1	0 12	12 39	1 23	9 15	16 15	1 9	1 51	23 13		n.a.
F 3	14 28	5 56	0 54	14 24	0 25	3 22	1 52	11 11	1 40	20 51	0 14	23 17	0 0	17 2	0 12	12 39	1 23	9 15	16 15	1 8	1 52	23 15		n.a.
S 4	14 48	0 2	0s12	15 1	0 31	2 55	1 54	10 58	1 41	20 54	0 14	23 17	0 0	17 3	0 12	12 39	1 23	9 16	16 15	1 8	1 53	23 17		n.a.
S 5	15 7	5s48	1 17	15 37	0 38	2 28	1 56	10 46	1 41	20 56	0 14	23 17	0 0	17 4	0 12	12 39	1 23	9 16	16 15	1 9	1 55	23 19		n.a.
M 6	15 26	11 22	2 18	16 13	0 44	2 1	1 57	10 33	1 42	20 59	0 14	23 17	0 1	17 6	0 12	12 39	1 23	9 16	16 15	1 10	1 56	23 22		n.a.
T 7	15 45	16 29	3 12	16 48	0 50	1 34	1 59	10 21	1 42	21 2	0 13	23 17	0 1	17 7	0 12	12 40	1 23	9 16	16 14	1 12	1 57	23 24		n.a.
W 8	16 4	20 58	3 57	17 22	0 56	1 7	2 0	10 8	1 43	21 4	0 13	23 18	0 1	17 8	0 12	12 40	1 23	9 16	16 14	1 15	1 59	23 26		n.a.
T 9	16 23	24 37	4 32	17 56	1 2	0 39	2 1	9 56	1 43	21 7	0 13	23 18	0 1	17 9	0 12	12 40	1 22	9 17	16 14	1 19	2 0	23 28		n.a.
F 10	16 41	27 13	4 55	18 28	1 7	0 12	2 2	9 43	1 44	21 9	0 13	23 18	0 1	17 10	0 12	12 40	1 22	9 17	16 14	1 23	2 1	23 30		n.a.
S 11	16 59	28 36	5 5	19 0	1 13	0s16	2 3	9 31	1 44	21 12	0 13	23 18	0 1	17 11	0 12	12 40	1 22	9 17	16 14	1 27	2 2	23 32		n.a.
S 12	17 16	28 40	5 3	19 31	1 18	0 44	2 4	9 18	1 45	21 15	0 13	23 19	0 1	17 12	0 12	12 40	1 22	9 17	16 13	1 31	2 4	23 34		n.a.
M13	17 33	27 21	4 46	20 1	1 23	1 12	2 5	9 5	1 45	21 17	0 13	23 19	0 1	17 13	0 12	12 40	1 22	9 17	16 13	1 34	2 5	23 36		n.a.
T 14	17 50	24 44	4 17	20 30	1 28	1 39	2 6	8 53	1 45	21 20	0 13	23 19	0 1	17 14	0 12	12 40	1 22	9 17	16 13	1 35	2 6	23 39		n.a.
W15	18 7	20 54	3 34	20 57	1 33	2 7	2 7	8 40	1 46	21 22	0 13	23 20	0 2	17 15	0 12	12 40	1 22	9 18	16 13	1 36	2 7	23 41		n.a.
T 16	18 23	16 1	2 41	21 24	1 38	2 35	2 7	8 28	1 46	21 25	0 12	23 20	0 2	17 16	0 12	12 40	1 22	9 18	16 13	1 37	2 9	23 43		n.a.
F 17	18 39	10 17	1 37	21 50	1 42	3 3	2 7	8 15	1 47	21 27	0 12	23 20	0 2	17 17	0 12	12 39	1 22	9 18	16 12	1 36	2 10	23 45		n.a.
S 18	18 54	3 53	0 25	22 15	1 46	3 31	2 8	8 2	1 47	21 29	0 12	23 20	0 2	17 18	0 12	12 39	1 22	9 18	16 12	1 36	2 11	23 47		n.a.
S 19	19 10	2n55	0n50	22 38	1 50	3 59	2 8	7 50	1 48	21 32	0 12	23 21	0 2	17 19	0 12	12 39	1 22	9 18	16 12	1 36	2 13	23 49		n.a.
M20	19 25	9 48	2 4	23 1	1 54	4 27	2 8	7 37	1 48	21 34	0 12	23 21	0 2	17 20	0 12	12 39	1 22	9 18	16 12	1 37	2 14	23 51		n.a.
T 21	19 39	16 18	3 12	23 22	1 57	4 55	2 8	7 24	1 49	21 37	0 12	23 21	0 2	17 21	0 12	12 39	1 22	9 18	16 11	1 39	2 15	23 53		n.a.
W22	19 53	21 56	4 7	23 42	2 0	5 23	2 8	7 12	1 49	21 39	0 12	23 22	0 2	17 22	0 12	12 39	1 22	9 18	16 11	1 42	2 16	23 55		n.a.
T 23	20 7	26 8	4 45	24 0	2 2	5 51	2 8	6 59	1 50	21 42	0 12	23 22	0 2	17 23	0 12	12 39	1 22	9 18	16 11	1 46	2 18	23 57		n.a.
F 24	20 20	28 24	5 2	24 17	2 5	6 19	2 8	6 47	1 50	21 44	0 12	23 22	0 3	17 24	0 12	12 39	1 22	9 18	16 11	1 50	2 19	23 59		n.a.
S 25	20 33	28 32	4 58	24 33	2 7	6 47	2 7	6 34	1 51	21 46	0 11	23 23	0 3	17 25	0 12	12 39	1 22	9 18	16 10	1 54	2 20	24 1		n.a.
S 26	20 46	26 39	4 34	24 47	2 8	7 14	2 7	6 22	1 51	21 48	0 11	23 23	0 3	17 26	0 12	12 38	1 22	9 18	16 10	1 57	2 21	24 3		n.a.
M27	20 58	23 8	3 54	25 0	2 9	7 42	2 6	6 9	1 52	21 51	0 11	23 23	0 3	17 27	0 12	12 38	1 22	9 18	16 10	1 59	2 23	24 5		n.a.
T 28	21 10	18 26	3 2	25 11	2 10	8 9	2 5	5 56	1 52	21 53	0 11	23 24	0 3	17 28	0 12	12 38	1 22	9 18	16 9	2 0	2 24	24 7		n.a.
W29	21 22	13 1	2 2	25 20	2 10	8 36	2 5	5 44	1 53	21 55	0 11	23 24	0 3	17 29	0 12	12 38	1 22	9 18	16 9	2 1	2 25	24 9		n.a.
T 30	21s33	7n13	0n58	25s28	2s10	9s 3	2n 4	5n31	1n53	21s58	0n11	23n25	0n 3	17s30	0n12	12s38	1s22	9s18	16s 9	2s 1	2s27	24s11		n.a.

Julian Day Number = 1678993.5, Delta T = 03h16m30s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'11, Lahiri = - 5°33'10 Julian Calendar 1 Nov. 117 BCE == Greg. Calendar 29 Oct. 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 117 BCE
geocentric

DECEMBER 117 BCE (-116) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 27 49	6♐57'29	26♍28	21♐19	29♎30	21♍ 4	9♐48	9°R35	19♏ 8	0♓42	13°R55	24°R59	23♓52	27♏10	n.a.	F 1
S 2	4 31 45	7°58'45	8♎37	22°53	0♏43	21°36	10° 2	9♋31	19°12	0°42	13♈54	24♓58	23°49	27°17	n.a.	S 2
S 3	4 35 42	9° 0'01	20°35	24°26	1°56	22° 8	10°16	9°27	19°15	0°43	13°53	24°55	23°45	27°24	n.a.	S 3
M 4	4 39 38	10° 1'18	2♏28	25°58	3°10	22°41	10°30	9°23	19°19	0°44	13°53	24°50	23°42	27°30	n.a.	M 4
T 5	4 43 35	11° 2'35	14°17	27°29	4°23	23°12	10°44	9°19	19°22	0°44	13°52	24°41	23°39	27°37	n.a.	T 5
W 6	4 47 32	12° 3'52	26° 7	28°58	5°36	23°44	10°58	9°15	19°26	0°45	13°52	24°29	23°36	27°44	n.a.	W 6
T 7	4 51 28	13° 5'08	7♐59	0♑26	6°50	24°16	11°12	9°11	19°29	0°46	13°51	24°15	23°33	27°51	n.a.	T 7
F 8	4 55 25	14° 6'25	19°55	1°52	8° 3	24°48	11°26	9° 7	19°33	0°47	13°51	24° 0	23°30	27°57	n.a.	F 8
S 9	4 59 21	15° 7'41	1♑55	3°15	9°17	25°19	11°40	9° 3	19°36	0°47	13°50	23°45	23°26	28° 4	n.a.	S 9
S 10	5 3 18	16° 8'57	14° 1	4°35	10°30	25°50	11°54	8°58	19°39	0°48	13°50	23°32	23°23	28°11	n.a.	S 10
M11	5 7 14	17°10'12	26°14	5°51	11°44	26°22	12° 8	8°54	19°43	0°49	13°49	23°21	23°20	28°17	n.a.	M11
T 12	5 11 11	18°11'26	8♒36	7° 3	12°57	26°53	12°22	8°50	19°46	0°50	13°49	23°12	23°17	28°24	n.a.	T 12
W13	5 15 7	19°12'40	21° 9	8°10	14°11	27°24	12°36	8°45	19°49	0°51	13°49	23° 7	23°14	28°31	n.a.	W13
T 14	5 19 4	20°13'53	3♓57	9°12	15°25	27°55	12°50	8°41	19°53	0°52	13°48	23° 5	23°11	28°38	n.a.	T 14
F 15	5 23 1	21°15'06	17° 3	10° 7	16°38	28°25	13° 4	8°36	19°56	0°53	13°48	23° 4	23° 7	28°44	n.a.	F 15
S 16	5 26 57	22°16'17	0♈30	10°54	17°52	28°56	13°17	8°31	19°59	0°54	13°48	23° 4	23° 4	28°51	n.a.	S 16
S 17	5 30 54	23°17'28	14°21	11°33	19° 6	29°26	13°31	8°27	20° 3	0°55	13°47	23° 3	23° 1	28°58	n.a.	S 17
M18	5 34 50	24°18'37	28°38	12° 3	20°19	29°56	13°45	8°22	20° 6	0°56	13°47	23° 1	22°58	29° 4	n.a.	M18
T 19	5 38 47	25°19'46	13♉18	12°23	21°33	0♎27	13°59	8°17	20° 9	0°58	13°47	22°55	22°55	29°11	n.a.	T 19
W20	5 42 43	26°20'54	28°18	12°R32	22°47	0°57	14°13	8°13	20°12	0°59	13°46	22°47	22°51	29°18	n.a.	W20
T 21	5 46 40	27°22'01	13♊30	12°30	24° 1	1°26	14°27	8° 8	20°15	1° 0	13°46	22°36	22°48	29°25	n.a.	T 21
F 22	5 50 37	28°23'07	28°42	12°17	25°15	1°56	14°41	8° 3	20°18	1° 1	13°46	22°24	22°45	29°31	n.a.	F 22
S 23	5 54 33	29°24'12	13♋45	11°52	26°29	2°26	14°54	7°58	20°21	1° 2	13°46	22°12	22°42	29°38	n.a.	S 23
S 24	5 58 30	0♑25'17	28°28	11°15	27°43	2°55	15° 8	7°53	20°24	1° 4	13°46	22° 3	22°39	29°45	n.a.	S 24
M25	6 2 26	1°26'20	12♌45	10°28	28°56	3°24	15°22	7°49	20°28	1° 5	13°45	21°55	22°36	29°51	n.a.	M25
T 26	6 6 23	2°27'23	26°31	9°32	0♐10	3°53	15°35	7°44	20°30	1° 6	13°45	21°50	22°32	29°58	n.a.	T 26
W27	6 10 19	3°28'25	9♍48	8°28	1°24	4°22	15°49	7°39	20°33	1° 8	13°45	21°48	22°29	0♐ 5	n.a.	W27
T 28	6 14 16	4°29'26	22°38	7°18	2°38	4°51	16° 3	7°34	20°36	1° 9	13°45	21°D48	22°26	0°12	n.a.	T 28
F 29	6 18 12	5°30'27	5♎ 6	6° 4	3°52	5°19	16°16	7°29	20°39	1°11	13°45	21°R48	22°23	0°18	n.a.	F 29
S 30	6 22 9	6°31'27	17°16	4°49	5° 6	5°48	16°30	7°24	20°42	1°12	13°45	21°47	22°20	0°25	n.a.	S 30
S 31	6 26 6	7♑32'26	29♎15	3♑34	6♐20	6♎16	16♐43	7♋19	20♏45	1♓14	13°D45	21♓45	22♓17	0♐32	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s43	1n18	0s 8	25s34	2s 9	9s30	2n 3	5n19	1n54	22s 0	0n11	23n25	0n 3	17s31	0n12	12s37	1s22	9s18	16s 9	2s 1	2s28	24s13		n.a.
S 2	21 53	4s33	1 12	25 38	2 7	9 57	2 2	5 7	1 54	22 2	0 11	23 25	0 3	17 32	0 12	12 37	1 22	9 18	16 8	2 1	2 29	24 15		n.a.
S 3	22 3	10 9	2 11	25 41	2 5	10 24	2 1	4 54	1 55	22 4	0 11	23 26	0 4	17 33	0 12	12 37	1 22	9 18	16 8	2 2	2 30	24 17		n.a.
M 4	22 12	15 21	3 4	25 41	2 3	10 50	2 0	4 42	1 55	22 6	0 11	23 26	0 4	17 34	0 12	12 36	1 22	9 18	16 8	2 5	2 32	24 19		n.a.
T 5	22 21	19 57	3 49	25 40	1 59	11 16	1 58	4 29	1 56	22 8	0 10	23 27	0 4	17 35	0 12	12 36	1 21	9 18	16 7	2 8	2 33	24 21		n.a.
W 6	22 30	23 47	4 24	25 37	1 55	11 42	1 57	4 17	1 56	22 10	0 10	23 27	0 4	17 36	0 12	12 36	1 21	9 18	16 7	2 13	2 34	24 23		n.a.
T 7	22 38	26 37	4 48	25 32	1 50	12 8	1 56	4 5	1 57	22 12	0 10	23 27	0 4	17 37	0 12	12 36	1 21	9 18	16 7	2 18	2 35	24 25		n.a.
F 8	22 45	28 17	4 59	25 26	1 44	12 33	1 54	3 53	1 57	22 15	0 10	23 28	0 4	17 38	0 12	12 35	1 21	9 18	16 7	2 24	2 37	24 27		n.a.
S 9	22 52	28 38	4 56	25 17	1 37	12 58	1 53	3 41	1 58	22 17	0 10	23 28	0 4	17 39	0 12	12 35	1 21	9 18	16 6	2 30	2 38	24 29		n.a.
S 10	22 59	27 37	4 41	25 7	1 30	13 23	1 51	3 28	1 58	22 19	0 10	23 29	0 4	17 40	0 12	12 35	1 21	9 18	16 6	2 36	2 39	24 31		n.a.
M11	23 5	25 16	4 12	24 56	1 21	13 48	1 49	3 16	1 59	22 20	0 10	23 29	0 4	17 41	0 12	12 34	1 21	9 18	16 6	2 40	2 41	24 33		n.a.
T 12	23 11	21 43	3 31	24 42	1 11	14 12	1 48	3 4	1 59	22 22	0 10	23 29	0 5	17 42	0 12	12 34	1 21	9 17	16 5	2 44	2 42	24 35		n.a.
W13	23 16	17 8	2 40	24 28	1 0	14 36	1 46	2 52	1 59	22 24	0 10	23 30	0 5	17 43	0 12	12 33	1 21	9 17	16 5	2 46	2 43	24 37		n.a.
T 14	23 21	11 43	1 39	24 12	0 49	14 59	1 44	2 40	2 0	22 26	0 9	23 30	0 5	17 43	0 12	12 33	1 21	9 17	16 5	2 47	2 44	24 38		n.a.
F 15	23 25	5 40	0 32	23 55	0 36	15 22	1 42	2 28	2 0	22 28	0 9	23 31	0 5	17 44	0 12	12 33	1 21	9 17	16 4	2 47	2 46	24 40		n.a.
S 16	23 29	0n48	0n39	23 37	0 22	15 45	1 40	2 17	2 1	22 30	0 9	23 31	0 5	17 45	0 12	12 32	1 21	9 17	16 4	2 47	2 47	24 42		n.a.
S 17	23 32	7 24	1 50	23 19	0 6	16 8	1 38	2 5	2 1	22 32	0 9	23 31	0 5	17 46	0 11	12 32	1 21	9 17	16 4	2 47	2 48	24 44		n.a.
M18	23 35	13 50	2 56	23 0	0n10	16 30	1 36	1 53	2 2	22 34	0 9	23 32	0 5	17 47	0 11	12 31	1 21	9 16	16 3	2 48	2 49	24 46		n.a.
T 19	23 38	19 41	3 52	22 41	0 27	16 51	1 34	1 41	2 2	22 35	0 9	23 32	0 5	17 48	0 11	12 31	1 21	9 16	16 3	2 51	2 51	24 48		n.a.
W20	23 40	24 27	4 33	22 22	0 45	17 12	1 31	1 30	2 3	22 37	0 9	23 33	0 5	17 49	0 11	12 31	1 21	9 16	16 3	2 54	2 52	24 50		n.a.
T 21	23 41	27 35	4 56	22 4	1 3	17 33	1 29	1 18	2 3	22 39	0 9	23 33	0 6	17 50	0 11	12 30	1 21	9 16	16 2	2 58	2 53	24 52		n.a.
F 22	23 42	28 40	4 58	21 47	1 22	17 53	1 27	1 7	2 4	22 41	0 9	23 33	0 6	17 50	0 11	12 30	1 21	9 15	16 2	3 3	2 54	24 53		n.a.
S 23	23 43	27 37	4 39	21 30	1 41	18 13	1 24	0 55	2 4	22 42	0 9	23 34	0 6	17 51	0 11	12 29	1 21	9 15	16 2	3 8	2 56	24 55		n.a.
S 24	23 43	24 39	4 2	21 15	2 0	18 33	1 22	0 44	2 5	22 44	0 8	23 34	0 6	17 52	0 11	12 29	1 21	9 15	16 1	3 11	2 57	24 57		n.a.
M25	23 42	20 13	3 11	21 0	2 18	18 51	1 19	0 33	2 5	22 46	0 8	23 35	0 6	17 53	0 11	12 28	1 21	9 15	16 1	3 14	2 58	24 59		n.a.
T 26	23 41	14 50	2 9	20 48	2 35	19 10	1 17	0 21	2 6	22 47	0 8	23 35	0 6	17 54	0 11	12 28	1 21	9 14	16 1	3 16	3 0	25 1		n.a.
W27	23 40	8 57	1 3	20 37	2 50	19 28	1 14	0 10	2 6	22 49	0 8	23 35	0 6	17 54	0 11	12 27	1 21	9 14	16 0	3 17	3 1	25 3		n.a.
T 28	23 38	2 53	0s 4	20 27	3 4	19 45	1 12	0s 1	2 7	22 50	0 8	23 36	0 6	17 55	0 11	12 26	1 21	9 14	16 0	3 17	3 2	25 4		n.a.
F 29	23 36	3s 7	1 10	20 19	3 16	20 2	1 9	0 12	2 7	22 52	0 8	23 36	0 6	17 56	0 11	12 26	1 21	9 14	15 59	3 17	3 3	25 6		n.a.
S 30	23 33	8 52	2 11	20 13	3 25	20 18	1 7	0 23	2 8	22 53	0 8	23 37	0 7	17 57	0 11	12 25	1 21	9 13	15 59	3 18	3 5	25 8		n.a.
S 31	23s30	14s12	3s 4	20s 8	3n32	20s34	1n 4	0s33	2n 8	22s55	0n 8	23n37	0n 7	17s58	0n11	12s25	1s21	9s13	15s59	3s18	3s 6	25s10		n.a.

Julian Day Number = 1679023.5, Delta T = 03h16m29s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'07, Lahiri = - 5°33'06 Julian Calendar 1 Dec. 117 BCE == Greg. Calendar 28 Nov. 117 BCE

The year -116 astronomical counting style corresponds to year 117 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

JANUARY 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 30 2	8♉33'23	11♏ 6	2°R22	7♐34	6♎44	16♐57	7°R14	20♏48	1♓15	13♈45	21°R40	22♓13	0♐38	n.a.	M 1
T 2	6 33 59	9°34'21	22°55	1♉15	8°49	7°11	17°10	7♋ 9	20°50	1°17	13°45	21♓33	22°10	0°45	n.a.	T 2
W 3	6 37 55	10°35'17	4♐46	0°14	10° 3	7°39	17°24	7° 4	20°53	1°18	13°45	21°23	22° 7	0°52	n.a.	W 3
T 4	6 41 52	11°36'12	16°41	29♐20	11°17	8° 6	17°37	6°59	20°56	1°20	13°45	21°11	22° 4	0°59	n.a.	T 4
F 5	6 45 48	12°37'06	28°42	28°33	12°31	8°33	17°51	6°54	20°58	1°22	13°45	20°57	22° 1	1° 5	n.a.	F 5
S 6	6 49 45	13°37'58	10♉52	27°55	13°45	9° 0	18° 4	6°50	21° 1	1°23	13°45	20°44	21°57	1°12	n.a.	S 6
S 7	6 53 41	14°38'50	23°10	27°25	14°59	9°27	18°17	6°45	21° 4	1°25	13°46	20°32	21°54	1°19	n.a.	S 7
M 8	6 57 38	15°39'39	5♒37	27° 4	16°13	9°54	18°30	6°40	21° 6	1°27	13°46	20°22	21°51	1°25	n.a.	M 8
T 9	7 1 35	16°40'28	18°14	26°51	17°27	10°20	18°44	6°35	21° 9	1°28	13°46	20°14	21°48	1°32	n.a.	T 9
W10	7 5 31	17°41'14	1♓ 1	26°D45	18°41	10°46	18°57	6°30	21°11	1°30	13°46	20°10	21°45	1°39	n.a.	W10
T 11	7 9 28	18°41'59	14° 0	26°47	19°56	11°12	19°10	6°25	21°13	1°32	13°46	20°D 8	21°42	1°46	n.a.	T 11
F 12	7 13 24	19°42'43	27°13	26°56	21°10	11°37	19°23	6°21	21°16	1°34	13°47	20° 8	21°38	1°52	n.a.	F 12
S 13	7 17 21	20°43'24	10♈42	27°12	22°24	12° 2	19°36	6°16	21°18	1°35	13°47	20° 9	21°35	1°59	n.a.	S 13
S 14	7 21 17	21°44'04	24°27	27°33	23°38	12°27	19°49	6°11	21°20	1°37	13°47	20°R 9	21°32	2° 6	n.a.	S 14
M15	7 25 14	22°44'41	8♉31	28° 0	24°52	12°52	20° 2	6° 7	21°23	1°39	13°48	20° 8	21°29	2°12	n.a.	M15
T 16	7 29 10	23°45'17	22°53	28°33	26° 6	13°16	20°15	6° 2	21°25	1°41	13°48	20° 5	21°26	2°19	n.a.	T 16
W17	7 33 7	24°45'51	7♊30	29° 9	27°20	13°41	20°27	5°58	21°27	1°43	13°48	19°59	21°23	2°26	n.a.	W17
T 18	7 37 4	25°46'23	22°16	29°51	28°34	14° 5	20°40	5°53	21°29	1°45	13°49	19°51	21°19	2°33	n.a.	T 18
F 19	7 41 0	26°46'54	7♋ 6	0♉36	29°49	14°28	20°53	5°49	21°31	1°47	13°49	19°43	21°16	2°39	n.a.	F 19
S 20	7 44 57	27°47'22	21°51	1°25	1♉ 3	14°52	21° 5	5°44	21°33	1°49	13°50	19°34	21°13	2°46	n.a.	S 20
S 21	7 48 53	28°47'49	6♌21	2°17	2°17	15°15	21°18	5°40	21°35	1°51	13°50	19°27	21°10	2°53	n.a.	S 21
M22	7 52 50	29°48'14	20°32	3°13	3°31	15°37	21°30	5°36	21°37	1°53	13°50	19°21	21° 7	2°59	n.a.	M22
T 23	7 56 46	0♒48'37	4♍18	4°11	4°45	16° 0	21°43	5°31	21°39	1°55	13°51	19°18	21° 3	3° 6	n.a.	T 23
W24	8 0 43	1°48'58	17°38	5°12	5°59	16°22	21°55	5°27	21°41	1°57	13°51	19°D17	21° 0	3°13	n.a.	W24
T 25	8 4 40	2°49'18	0♎33	6°16	7°14	16°44	22° 7	5°23	21°42	1°59	13°52	19°18	20°57	3°20	n.a.	T 25
F 26	8 8 36	3°49'37	13° 6	7°22	8°28	17° 5	22°19	5°19	21°44	2° 1	13°53	19°19	20°54	3°26	n.a.	F 26
S 27	8 12 33	4°49'53	25°21	8°30	9°42	17°27	22°31	5°15	21°46	2° 3	13°53	19°20	20°51	3°33	n.a.	S 27
S 28	8 16 29	5°50'08	7♏23	9°40	10°56	17°47	22°43	5°11	21°47	2° 5	13°54	19°R21	20°48	3°40	n.a.	S 28
M29	8 20 26	6°50'22	19°17	10°52	12°10	18° 8	22°55	5° 7	21°49	2° 7	13°54	19°20	20°44	3°46	n.a.	M29
T 30	8 24 22	7°50'34	1♐ 8	12° 6	13°24	18°28	23° 7	5° 4	21°50	2° 9	13°55	19°17	20°41	3°53	n.a.	T 30
W31	8 28 19	8♒50'44	13♐ 1	13♉22	14♉38	18♎48	23♐19	5♋ 0	21♏52	2♓11	13♈56	19♓12	20♓38	4♐ 0	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	23s26	18s58	3s50	20s 5	3n36	20s49	1n 1	0s44	2n 9	22s56	0n 8	23n37	0n 7	17s58	0n11	12s24	1s21	9s13	15s58	3s20	3s 7	25s12			n.a.
T 2	23 22	22 59	4 25	20 4	3 39	21 3	0 59	0 55	2 9	22 58	0 8	23 38	0 7	17 59	0 11	12 24	1 21	9 12	15 58	3 23	3 8	25 13			n.a.
W 3	23 17	26 3	4 49	20 4	3 38	21 17	0 56	1 5	2 10	22 59	0 7	23 38	0 7	18 0	0 11	12 23	1 21	9 12	15 58	3 27	3 10	25 15			n.a.
T 4	23 12	28 1	5 0	20 6	3 36	21 31	0 53	1 16	2 10	23 0	0 7	23 39	0 7	18 0	0 11	12 22	1 20	9 12	15 57	3 32	3 11	25 17			n.a.
F 5	23 6	28 41	4 58	20 10	3 32	21 43	0 50	1 26	2 10	23 2	0 7	23 39	0 7	18 1	0 11	12 22	1 20	9 11	15 57	3 38	3 12	25 19			n.a.
S 6	23 0	27 58	4 43	20 15	3 27	21 55	0 48	1 36	2 11	23 3	0 7	23 39	0 7	18 2	0 11	12 21	1 20	9 11	15 57	3 43	3 13	25 20			n.a.
S 7	22 54	25 53	4 14	20 22	3 20	22 7	0 45	1 47	2 11	23 4	0 7	23 40	0 7	18 3	0 11	12 21	1 20	9 10	15 56	3 48	3 15	25 22			n.a.
M 8	22 47	22 31	3 33	20 29	3 12	22 18	0 42	1 57	2 12	23 6	0 7	23 40	0 8	18 3	0 11	12 20	1 20	9 10	15 56	3 52	3 16	25 24			n.a.
T 9	22 39	18 5	2 41	20 38	3 3	22 28	0 39	2 7	2 12	23 7	0 7	23 40	0 8	18 4	0 11	12 19	1 20	9 10	15 56	3 55	3 17	25 26			n.a.
W10	22 32	12 47	1 40	20 48	2 53	22 37	0 36	2 16	2 13	23 8	0 7	23 41	0 8	18 5	0 11	12 19	1 20	9 9	15 55	3 56	3 19	25 27			n.a.
T 11	22 23	6 52	0 33	20 58	2 43	22 46	0 33	2 26	2 13	23 9	0 7	23 41	0 8	18 5	0 11	12 18	1 20	9 9	15 55	3 57	3 20	25 29			n.a.
F 12	22 15	0 32	0n38	21 9	2 32	22 54	0 31	2 36	2 14	23 10	0 7	23 41	0 8	18 6	0 11	12 17	1 20	9 8	15 55	3 57	3 21	25 31			n.a.
S 13	22 6	5n56	1 48	21 20	2 21	23 2	0 28	2 45	2 14	23 11	0 7	23 42	0 8	18 6	0 11	12 17	1 20	9 8	15 54	3 57	3 22	25 32			n.a.
S 14	21 56	12 15	2 53	21 32	2 10	23 8	0 25	2 55	2 15	23 13	0 6	23 42	0 8	18 7	0 11	12 16	1 20	9 8	15 54	3 57	3 24	25 34			n.a.
M15	21 46	18 6	3 49	21 43	1 58	23 15	0 22	3 4	2 15	23 14	0 6	23 42	0 8	18 8	0 11	12 15	1 20	9 7	15 53	3 57	3 25	25 36			n.a.
T 16	21 36	23 5	4 32	21 55	1 47	23 20	0 19	3 13	2 15	23 15	0 6	23 43	0 8	18 8	0 11	12 15	1 20	9 7	15 53	3 58	3 26	25 37			n.a.
W17	21 25	26 42	4 58	22 7	1 36	23 25	0 16	3 22	2 16	23 16	0 6	23 43	0 8	18 9	0 11	12 14	1 20	9 6	15 53	4 1	3 27	25 39			n.a.
T 18	21 14	28 33	5 5	22 18	1 24	23 29	0 14	3 31	2 16	23 17	0 6	23 43	0 9	18 9	0 11	12 13	1 20	9 6	15 52	4 4	3 29	25 41			n.a.
F 19	21 2	28 22	4 51	22 29	1 13	23 32	0 11	3 40	2 17	23 18	0 6	23 44	0 9	18 10	0 11	12 12	1 20	9 5	15 52	4 7	3 30	25 42			n.a.
S 20	20 50	26 10	4 19	22 40	1 2	23 35	0 8	3 49	2 17	23 19	0 6	23 44	0 9	18 10	0 11	12 12	1 20	9 5	15 52	4 10	3 31	25 44			n.a.
S 21	20 38	22 16	3 30	22 50	0 52	23 36	0 5	3 58	2 18	23 20	0 6	23 44	0 9	18 11	0 11	12 11	1 20	9 4	15 51	4 13	3 32	25 46			n.a.
M22	20 25	17 9	2 28	22 59	0 41	23 38	0 2	4 6	2 18	23 21	0 6	23 45	0 9	18 11	0 11	12 10	1 20	9 4	15 51	4 16	3 34	25 47			n.a.
T 23	20 12	11 17	1 20	23 8	0 31	23 38	0s 0	4 14	2 18	23 21	0 6	23 45	0 9	18 12	0 11	12 10	1 20	9 3	15 51	4 17	3 35	25 49			n.a.
W24	19 59	5 5	0 9	23 16	0 21	23 38	0 3	4 23	2 19	23 22	0 5	23 45	0 9	18 12	0 11	12 9	1 20	9 3	15 50	4 17	3 36	25 51			n.a.
T 25	19 45	1s 9	1s 0	23 23	0 11	23 37	0 6	4 31	2 19	23 23	0 5	23 45	0 9	18 13	0 11	12 8	1 20	9 2	15 50	4 17	3 38	25 52			n.a.
F 26	19 31	7 9	2 5	23 29	0 1	23 35	0 9	4 39	2 19	23 24	0 5	23 46	0 9	18 13	0 11	12 7	1 20	9 2	15 50	4 17	3 39	25 54			n.a.
S 27	19 16	12 44	3 2	23 34	0s 8	23 32	0 11	4 46	2 20	23 25	0 5	23 46	0 10	18 14	0 11	12 7	1 20	9 1	15 49	4 16	3 40	25 55			n.a.
S 28	19 2	17 45	3 50	23 38	0 17	23 29	0 14	4 54	2 20	23 26	0 5	23 46	0 10	18 14	0 11	12 6	1 20	9 1	15 49	4 16	3 41	25 57			n.a.
M29	18 46	22 2	4 28	23 41	0 26	23 25	0 17	5 2	2 21	23 26	0 5	23 46	0 10	18 15	0 11	12 5	1 20	9 0	15 49	4 16	3 43	25 58			n.a.
T 30	18 31	25 25	4 54	23 43	0 34	23 21	0 19	5 9	2 21	23 27	0 5	23 47	0 10	18 15	0 11	12 4	1 20	9 0	15 48	4 17	3 44	26 0			n.a.
W31	18s15	27s42	5s 8	23s44	0s42	23s16	0s22	5s16	2n21	23s28	0n 5	23n47	0n10	18s15	0n11	12s 3	1s20	8s59	15s48	4s19	3s45	26s 2			n.a.

Julian Day Number = 1679054.5, Delta T = 03h16m28s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°40'02, Lahiri = - 5°33'02 Julian Calendar 1 Jan. 116 BCE == Greg. Calendar 29 Dec. 117 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

FEBRUARY 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 32 15	9♒50'53	24♐59	14♉39	15♉53	19♎ 7	23♐31	4°R56	21♏53	2♓13	13♈56	19°R 6	20♓35	4♐ 7	n.a.	T 1
F 2	8 36 12	10°51'00	7♉ 6	15°58	17° 7	19°26	23°43	4♋53	21°55	2°15	13°57	18♓59	20°32	4°13	n.a.	F 2
S 3	8 40 9	11°51'04	19°24	17°19	18°21	19°44	23°54	4°49	21°56	2°17	13°58	18°52	20°29	4°20	n.a.	S 3
S 4	8 44 5	12°51'08	1♒54	18°40	19°35	20° 2	24° 6	4°46	21°57	2°20	13°58	18°45	20°25	4°27	n.a.	S 4
M 5	8 48 2	13°51'09	14°38	20° 4	20°49	20°20	24°17	4°43	21°59	2°22	13°59	18°40	20°22	4°33	n.a.	M 5
T 6	8 51 58	14°51'08	27°34	21°28	22° 3	20°37	24°28	4°40	22° 0	2°24	14° 0	18°37	20°19	4°40	n.a.	T 6
W 7	8 55 55	15°51'04	10♓44	22°54	23°18	20°54	24°40	4°37	22° 1	2°26	14° 1	18°35	20°16	4°47	n.a.	W 7
T 8	8 59 51	16°50'59	24° 5	24°22	24°32	21°10	24°51	4°34	22° 2	2°28	14° 1	18°D35	20°13	4°54	n.a.	T 8
F 9	9 3 48	17°50'51	7♈38	25°50	25°46	21°26	25° 2	4°31	22° 3	2°31	14° 2	18°36	20° 9	5° 0	n.a.	F 9
S 10	9 7 44	18°50'41	21°21	27°20	27° 0	21°42	25°13	4°28	22° 4	2°33	14° 3	18°37	20° 6	5° 7	n.a.	S 10
S 11	9 11 41	19°50'29	5♉15	28°52	28°14	21°57	25°23	4°25	22° 5	2°35	14° 4	18°39	20° 3	5°14	n.a.	S 11
M12	9 15 37	20°50'15	19°18	0♒24	29°28	22°11	25°34	4°22	22° 6	2°37	14° 5	18°R39	20° 0	5°21	n.a.	M12
T 13	9 19 34	21°49'58	3♊30	1°58	0♒42	22°25	25°45	4°20	22° 7	2°39	14° 6	18°39	19°57	5°27	n.a.	T 13
W14	9 23 31	22°49'39	17°49	3°32	1°56	22°38	25°55	4°18	22° 7	2°42	14° 7	18°37	19°54	5°34	n.a.	W14
T 15	9 27 27	23°49'17	2♋10	5° 8	3°10	22°51	26° 6	4°15	22° 8	2°44	14° 8	18°34	19°50	5°41	n.a.	T 15
F 16	9 31 24	24°48'53	16°31	6°46	4°24	23° 4	26°16	4°13	22° 9	2°46	14° 8	18°31	19°47	5°47	n.a.	F 16
S 17	9 35 20	25°48'26	0♌47	8°24	5°39	23°16	26°26	4°11	22° 9	2°48	14° 9	18°28	19°44	5°54	n.a.	S 17
S 18	9 39 17	26°47'58	14°51	10° 4	6°53	23°27	26°37	4° 9	22°10	2°51	14°10	18°25	19°41	6° 1	n.a.	S 18
M19	9 43 13	27°47'27	28°41	11°45	8° 7	23°38	26°47	4° 7	22°10	2°53	14°11	18°23	19°38	6° 8	n.a.	M19
T 20	9 47 10	28°46'54	12♍13	13°28	9°21	23°48	26°57	4° 5	22°11	2°55	14°12	18°D22	19°35	6°14	n.a.	T 20
W21	9 51 6	29°46'18	25°25	15°11	10°35	23°58	27° 6	4° 3	22°11	2°58	14°13	18°22	19°31	6°21	n.a.	W21
T 22	9 55 3	0♓45'41	8♎17	16°56	11°49	24° 7	27°16	4° 2	22°11	3° 0	14°14	18°23	19°28	6°28	n.a.	T 22
F 23	9 59 0	1°45'02	20°51	18°42	13° 3	24°15	27°26	4° 0	22°12	3° 2	14°15	18°24	19°25	6°34	n.a.	F 23
S 24	10 2 56	2°44'21	3♏ 8	20°30	14°17	24°23	27°35	3°59	22°12	3° 4	14°16	18°25	19°22	6°41	n.a.	S 24
S 25	10 6 53	3°43'37	15°13	22°19	15°31	24°30	27°44	3°57	22°12	3° 7	14°18	18°27	19°19	6°48	n.a.	S 25
M26	10 10 49	4°42'53	27°10	24° 9	16°45	24°36	27°54	3°56	22°12	3° 9	14°19	18°27	19°15	6°55	n.a.	M26
T 27	10 14 46	5°42'06	9♐ 3	26° 1	17°59	24°42	28° 3	3°55	22°12	3°11	14°20	18°R28	19°12	7° 1	n.a.	T 27
W28	10 18 42	6♓41'17	20♐57	27♒53	19♒13	24♎47	28♐12	3♋54	22°R12	3♓13	14♈21	18♓27	19♓ 9	7♐ 8	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	17s59	28s44	5s 8	23s44	0s50	23s10	0s24	5s23	2n22	23s28	0n 5	23n47	0n10	18s16	0n11	12s 3	1s20	8s59	15s48	4s22	3s46	26s 3		n.a.
F 2	17 43	28 25	4 54	23 42	0 58	23 3	0 27	5 30	2 22	23 29	0 5	23 47	0 10	18 16	0 11	12 2	1 20	8 58	15 48	4 24	3 48	26 5		n.a.
S 3	17 26	26 42	4 27	23 39	1 5	22 55	0 29	5 37	2 22	23 30	0 4	23 48	0 10	18 16	0 11	12 1	1 20	8 58	15 47	4 27	3 49	26 6		n.a.
S 4	17 9	23 38	3 47	23 35	1 12	22 47	0 32	5 43	2 22	23 30	0 4	23 48	0 10	18 17	0 11	12 0	1 20	8 57	15 47	4 30	3 50	26 8		n.a.
M 5	16 51	19 24	2 54	23 29	1 18	22 39	0 34	5 50	2 23	23 31	0 4	23 48	0 10	18 17	0 11	12 0	1 20	8 56	15 47	4 32	3 51	26 9		n.a.
T 6	16 34	14 12	1 52	23 22	1 24	22 29	0 37	5 56	2 23	23 32	0 4	23 48	0 10	18 17	0 11	11 59	1 20	8 56	15 46	4 33	3 53	26 11		n.a.
W 7	16 16	8 17	0 43	23 13	1 30	22 19	0 39	6 2	2 23	23 32	0 4	23 48	0 11	18 18	0 11	11 58	1 20	8 55	15 46	4 34	3 54	26 12		n.a.
T 8	15 58	1 55	0n30	23 3	1 36	22 8	0 41	6 8	2 24	23 33	0 4	23 49	0 11	18 18	0 11	11 57	1 20	8 55	15 46	4 34	3 55	26 14		n.a.
F 9	15 39	4n37	1 42	22 52	1 41	21 57	0 43	6 14	2 24	23 33	0 4	23 49	0 11	18 18	0 11	11 56	1 20	8 54	15 45	4 34	3 56	26 15		n.a.
S 10	15 21	11 2	2 50	22 39	1 45	21 45	0 46	6 20	2 24	23 34	0 4	23 49	0 11	18 18	0 11	11 55	1 20	8 54	15 45	4 33	3 58	26 17		n.a.
S 11	15 2	17 0	3 48	22 25	1 50	21 32	0 48	6 25	2 24	23 34	0 4	23 49	0 11	18 19	0 11	11 55	1 20	8 53	15 45	4 32	3 59	26 18		n.a.
M12	14 43	22 8	4 33	22 9	1 54	21 18	0 50	6 30	2 24	23 35	0 3	23 49	0 11	18 19	0 11	11 54	1 20	8 52	15 45	4 32	4 0	26 20		n.a.
T 13	14 23	26 2	5 3	21 51	1 57	21 4	0 52	6 35	2 25	23 35	0 3	23 50	0 11	18 19	0 11	11 53	1 20	8 52	15 44	4 32	4 2	26 21		n.a.
W14	14 4	28 21	5 13	21 32	2 0	20 50	0 54	6 40	2 25	23 36	0 3	23 50	0 11	18 19	0 11	11 52	1 20	8 51	15 44	4 33	4 3	26 23		n.a.
T 15	13 44	28 46	5 5	21 11	2 3	20 35	0 56	6 45	2 25	23 36	0 3	23 50	0 11	18 19	0 11	11 51	1 20	8 51	15 44	4 34	4 4	26 24		n.a.
F 16	13 24	27 15	4 37	20 49	2 5	20 19	0 58	6 49	2 25	23 36	0 3	23 50	0 11	18 20	0 11	11 51	1 20	8 50	15 43	4 35	4 5	26 26		n.a.
S 17	13 4	23 59	3 52	20 25	2 7	20 2	1 0	6 54	2 25	23 37	0 3	23 50	0 11	18 20	0 11	11 50	1 20	8 49	15 43	4 37	4 7	26 27		n.a.
S 18	12 43	19 20	2 54	19 59	2 9	19 45	1 2	6 58	2 25	23 37	0 3	23 50	0 12	18 20	0 11	11 49	1 20	8 49	15 43	4 38	4 8	26 29		n.a.
M19	12 23	13 43	1 46	19 32	2 10	19 28	1 3	7 2	2 25	23 38	0 3	23 50	0 12	18 20	0 11	11 48	1 20	8 48	15 43	4 39	4 9	26 30		n.a.
T 20	12 2	7 34	0 34	19 3	2 10	19 10	1 5	7 6	2 25	23 38	0 3	23 51	0 12	18 20	0 11	11 47	1 20	8 48	15 42	4 39	4 10	26 31		n.a.
W21	11 41	1 15	0s39	18 32	2 10	18 51	1 7	7 9	2 25	23 38	0 2	23 51	0 12	18 20	0 11	11 46	1 20	8 47	15 42	4 39	4 12	26 33		n.a.
T 22	11 20	4s58	1 48	18 0	2 10	18 32	1 8	7 13	2 25	23 39	0 2	23 51	0 12	18 20	0 11	11 46	1 20	8 46	15 42	4 39	4 13	26 34		n.a.
F 23	10 58	10 51	2 50	17 26	2 9	18 12	1 10	7 16	2 25	23 39	0 2	23 51	0 12	18 20	0 11	11 45	1 20	8 46	15 42	4 38	4 14	26 36		n.a.
S 24	10 37	16 11	3 43	16 50	2 8	17 52	1 11	7 19	2 25	23 39	0 2	23 51	0 12	18 21	0 11	11 44	1 20	8 45	15 41	4 38	4 15	26 37		n.a.
S 25	10 15	20 48	4 25	16 13	2 6	17 31	1 13	7 21	2 25	23 39	0 2	23 51	0 12	18 21	0 11	11 43	1 20	8 45	15 41	4 37	4 17	26 38		n.a.
M26	9 53	24 31	4 55	15 34	2 4	17 10	1 14	7 24	2 25	23 40	0 2	23 51	0 12	18 21	0 11	11 42	1 20	8 44	15 41	4 37	4 18	26 40		n.a.
T 27	9 31	27 11	5 12	14 53	2 1	16 48	1 15	7 26	2 24	23 40	0 2	23 52	0 12	18 21	0 11	11 42	1 20	8 43	15 41	4 37	4 19	26 41		n.a.
W28	9s 9	28s39	5s16	14s11	1s58	16s26	1s17	7s28	2n24	23s40	0n 2	23n52	0n12	18s21	0n11	11s41	1s20	8s43	15s41	4s37	4s20	26s42		n.a.

Julian Day Number = 1679085.5, Delta T = 03h16m27s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'58, Lahiri = - 5°32'58 Julian Calendar 1 Feb. 116 BCE == Greg. Calendar 29 Jan. 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

MARCH 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 22 39	7♓40'27	2♉56	29♒48	20♒27	24♎52	28♐21	3°R53	22°R12	3♓16	14♈22	18°R26	19♓ 6	7♐15	n.a.	T 1
F 2	10 26 35	8°39'34	15° 6	1♓43	21°41	24°56	28°29	3♋52	22♏12	3°18	14°23	18♓25	19° 3	7°21	n.a.	F 2
S 3	10 30 32	9°38'40	27°29	3°40	22°55	24°59	28°38	3°52	22°12	3°20	14°24	18°24	19° 0	7°28	n.a.	S 3
S 4	10 34 29	10°37'43	10♒ 7	5°38	24° 9	25° 1	28°46	3°51	22°12	3°22	14°25	18°23	18°56	7°35	n.a.	S 4
M 5	10 38 25	11°36'45	23° 4	7°38	25°23	25° 3	28°55	3°51	22°12	3°25	14°26	18°22	18°53	7°42	n.a.	M 5
T 6	10 42 22	12°35'45	6♓19	9°38	26°37	25° 4	29° 3	3°50	22°11	3°27	14°28	18°21	18°50	7°48	n.a.	T 6
W 7	10 46 18	13°34'42	19°51	11°40	27°51	25°R 4	29°11	3°50	22°11	3°29	14°29	18°D21	18°47	7°55	n.a.	W 7
T 8	10 50 15	14°33'37	3♈39	13°43	29° 5	25° 4	29°19	3°50	22°11	3°31	14°30	18°21	18°44	8° 2	n.a.	T 8
F 9	10 54 11	15°32'30	17°39	15°46	0♓19	25° 2	29°27	3°D50	22°10	3°34	14°31	18°21	18°41	8° 9	n.a.	F 9
S 10	10 58 8	16°31'21	1♉48	17°51	1°33	25° 0	29°35	3°50	22°10	3°36	14°32	18°22	18°37	8°15	n.a.	S 10
S 11	11 2 4	17°30'10	16° 2	19°56	2°47	24°58	29°42	3°50	22° 9	3°38	14°34	18°22	18°34	8°22	n.a.	S 11
M12	11 6 1	18°28'56	0♊19	22° 2	4° 1	24°54	29°50	3°51	22° 9	3°40	14°35	18°R22	18°31	8°29	n.a.	M12
T 13	11 9 57	19°27'40	14°34	24° 7	5°15	24°50	29°57	3°51	22° 8	3°43	14°36	18°D22	18°28	8°35	n.a.	T 13
W14	11 13 54	20°26'21	28°46	26°13	6°29	24°45	0♉ 4	3°52	22° 7	3°45	14°37	18°22	18°25	8°42	n.a.	W14
T 15	11 17 51	21°25'00	12♋52	28°19	7°43	24°39	0°11	3°52	22° 6	3°47	14°39	18°22	18°21	8°49	n.a.	T 15
F 16	11 21 47	22°23'37	26°49	0♈24	8°56	24°32	0°18	3°53	22° 6	3°49	14°40	18°22	18°18	8°56	n.a.	F 16
S 17	11 25 44	23°22'12	10♌37	2°28	10°10	24°25	0°24	3°54	22° 5	3°51	14°41	18°23	18°15	9° 2	n.a.	S 17
S 18	11 29 40	24°20'44	24°13	4°30	11°24	24°17	0°31	3°55	22° 4	3°53	14°43	18°23	18°12	9° 9	n.a.	S 18
M19	11 33 37	25°19'14	7♍36	6°32	12°38	24° 8	0°37	3°56	22° 3	3°56	14°44	18°24	18° 9	9°16	n.a.	M19
T 20	11 37 33	26°17'42	20°46	8°31	13°52	23°59	0°43	3°57	22° 2	3°58	14°45	18°R24	18° 6	9°22	n.a.	T 20
W21	11 41 30	27°16'07	3♎41	10°28	15° 6	23°48	0°49	3°59	22° 1	4° 0	14°46	18°23	18° 2	9°29	n.a.	W21
T 22	11 45 26	28°14'31	16°21	12°23	16°20	23°37	0°55	4° 0	22° 0	4° 2	14°48	18°23	17°59	9°36	n.a.	T 22
F 23	11 49 23	29°12'53	28°48	14°14	17°34	23°25	1° 1	4° 1	21°59	4° 4	14°49	18°21	17°56	9°43	n.a.	F 23
S 24	11 53 20	0♈11'13	11♏ 2	16° 3	18°47	23°13	1° 7	4° 3	21°58	4° 6	14°50	18°20	17°53	9°49	n.a.	S 24
S 25	11 57 16	1° 9'32	23° 6	17°48	20° 1	23° 0	1°12	4° 5	21°56	4° 8	14°52	18°18	17°50	9°56	n.a.	S 25
M26	12 1 13	2° 7'49	5♐ 3	19°30	21°15	22°46	1°17	4° 7	21°55	4°10	14°53	18°16	17°46	10° 3	n.a.	M26
T 27	12 5 9	3° 6'04	16°57	21° 8	22°29	22°31	1°22	4° 9	21°54	4°12	14°54	18°15	17°43	10°10	n.a.	T 27
W28	12 9 6	4° 4'18	28°51	22°42	23°43	22°16	1°27	4°11	21°53	4°14	14°56	18°D14	17°40	10°16	n.a.	W28
T 29	12 13 2	5° 2'30	10♉50	24°12	24°57	22° 0	1°32	4°13	21°51	4°16	14°57	18°14	17°37	10°23	n.a.	T 29
F 30	12 16 59	6° 0'40	22°59	25°38	26°10	21°44	1°37	4°15	21°50	4°18	14°58	18°15	17°34	10°30	n.a.	F 30
S 31	12 20 55	6♈58'49	5♒22	26♈59	27♓24	21♎27	1♉41	4♋17	21♏48	4♓20	15♈ 0	18♓16	17♓31	10♐36	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	8s47	28s47	5s 6	13s27	1s54	16s 4	1s18	7s30	2n24	23s40	0n 2	23n52	0n12	18s21	0n11	11s40	1s20	8s42	15s40	4s37	4s22	26s44			n.a.
F 2	8 25	27 31	4 43	12 41	1 49	15 41	1 19	7 32	2 24	23 41	0 1	23 52	0 13	18 21	0 11	11 39	1 20	8 41	15 40	4 38	4 23	26 45			n.a.
S 3	8 2	24 55	4 6	11 53	1 44	15 17	1 20	7 33	2 23	23 41	0 1	23 52	0 13	18 21	0 11	11 38	1 20	8 41	15 40	4 38	4 24	26 46			n.a.
S 4	7 40	21 3	3 16	11 5	1 39	14 53	1 21	7 35	2 23	23 41	0 1	23 52	0 13	18 21	0 11	11 37	1 20	8 40	15 40	4 39	4 25	26 48			n.a.
M 5	7 17	16 7	2 15	10 14	1 33	14 29	1 22	7 36	2 23	23 41	0 1	23 52	0 13	18 20	0 11	11 37	1 20	8 40	15 40	4 39	4 27	26 49			n.a.
T 6	6 55	10 19	1 6	9 22	1 26	14 5	1 23	7 36	2 22	23 41	0 1	23 52	0 13	18 20	0 11	11 36	1 20	8 39	15 39	4 39	4 28	26 50			n.a.
W 7	6 32	3 56	0n 8	8 29	1 19	13 40	1 23	7 37	2 22	23 42	0 1	23 52	0 13	18 20	0 11	11 35	1 20	8 38	15 39	4 39	4 29	26 52			n.a.
T 8	6 9	2n45	1 24	7 34	1 11	13 14	1 24	7 37	2 21	23 42	0 1	23 52	0 13	18 20	0 11	11 34	1 20	8 38	15 39	4 39	4 30	26 53			n.a.
F 9	5 46	9 23	2 35	6 38	1 3	12 48	1 25	7 37	2 21	23 42	0 1	23 52	0 13	18 20	0 11	11 33	1 20	8 37	15 39	4 39	4 32	26 54			n.a.
S 10	5 23	15 38	3 38	5 41	0 54	12 22	1 25	7 37	2 20	23 42	0 1	23 53	0 13	18 20	0 11	11 33	1 20	8 36	15 39	4 39	4 33	26 56			n.a.
S 11	5 0	21 6	4 28	4 43	0 45	11 56	1 26	7 37	2 19	23 42	0 0	23 53	0 13	18 20	0 11	11 32	1 20	8 36	15 38	4 39	4 34	26 57			n.a.
M12	4 36	25 21	5 1	3 44	0 35	11 29	1 26	7 36	2 19	23 42	0 0	23 53	0 13	18 20	0 11	11 31	1 20	8 35	15 38	4 39	4 36	26 58			n.a.
T 13	4 13	28 2	5 16	2 45	0 25	11 2	1 27	7 35	2 18	23 43	0 0	23 53	0 13	18 19	0 11	11 30	1 20	8 35	15 38	4 39	4 37	26 59			n.a.
W14	3 50	28 54	5 12	1 45	0 15	10 35	1 27	7 34	2 17	23 43	0 0	23 53	0 14	18 19	0 11	11 29	1 20	8 34	15 38	4 39	4 38	27 1			n.a.
T 15	3 26	27 52	4 48	0 44	0 4	10 7	1 27	7 33	2 16	23 43	0s 0	23 53	0 14	18 19	0 11	11 29	1 20	8 33	15 38	4 39	4 39	27 2			n.a.
F 16	3 3	25 5	4 8	0n16	0n 7	9 40	1 28	7 31	2 15	23 43	0 0	23 53	0 14	18 19	0 11	11 28	1 20	8 33	15 38	4 39	4 41	27 3			n.a.
S 17	2 40	20 53	3 14	1 16	0 18	9 11	1 28	7 29	2 14	23 43	0 0	23 53	0 14	18 19	0 11	11 27	1 20	8 32	15 38	4 39	4 42	27 4			n.a.
S 18	2 16	15 38	2 10	2 15	0 29	8 43	1 28	7 27	2 13	23 43	0 0	23 53	0 14	18 18	0 11	11 26	1 20	8 31	15 37	4 39	4 43	27 6			n.a.
M19	1 53	9 44	0 59	3 14	0 41	8 15	1 28	7 25	2 12	23 43	0 1	23 53	0 14	18 18	0 11	11 26	1 20	8 31	15 37	4 38	4 44	27 7			n.a.
T 20	1 29	3 30	0s13	4 12	0 52	7 46	1 28	7 23	2 11	23 43	0 1	23 53	0 14	18 18	0 11	11 25	1 20	8 30	15 37	4 38	4 46	27 8			n.a.
W21	1 6	2s45	1 24	5 9	1 3	7 17	1 28	7 20	2 10	23 43	0 1	23 53	0 14	18 18	0 11	11 24	1 20	8 30	15 37	4 38	4 47	27 9			n.a.
T 22	0 42	8 47	2 29	6 5	1 14	6 48	1 27	7 17	2 8	23 43	0 1	23 53	0 14	18 17	0 11	11 23	1 20	8 29	15 37	4 39	4 48	27 10			n.a.
F 23	0 19	14 22	3 25	6 58	1 25	6 18	1 27	7 14	2 7	23 44	0 1	23 53	0 14	18 17	0 11	11 22	1 20	8 28	15 37	4 39	4 49	27 12			n.a.
S 24	0n 5	19 17	4 11	7 50	1 35	5 49	1 27	7 11	2 6	23 44	0 1	23 53	0 14	18 17	0 11	11 22	1 20	8 28	15 37	4 40	4 51	27 13			n.a.
S 25	0 28	23 22	4 46	8 40	1 45	5 19	1 27	7 7	2 4	23 44	0 1	23 53	0 14	18 16	0 11	11 21	1 20	8 27	15 37	4 41	4 52	27 14			n.a.
M26	0 51	26 25	5 7	9 28	1 54	4 49	1 26	7 3	2 3	23 44	0 2	23 53	0 14	18 16	0 11	11 20	1 20	8 27	15 36	4 41	4 53	27 15			n.a.
T 27	1 15	28 18	5 15	10 14	2 3	4 19	1 26	7 0	2 1	23 44	0 2	23 53	0 14	18 16	0 11	11 20	1 21	8 26	15 36	4 42	4 54	27 16			n.a.
W28	1 38	28 53	5 10	10 57	2 11	3 49	1 25	6 55	1 59	23 44	0 2	23 53	0 15	18 15	0 11	11 19	1 21	8 26	15 36	4 42	4 56	27 17			n.a.
T 29	2 2	28 6	4 51	11 38	2 19	3 19	1 24	6 51	1 57	23 44	0 2	23 53	0 15	18 15	0 11	11 18	1 21	8 25	15 36	4 42	4 57	27 18			n.a.
F 30	2 25	26 0	4 20	12 16	2 25	2 49	1 24	6 47	1 56	23 44	0 2	23 53	0 15	18 15	0 11	11 17	1 21	8 24	15 36	4 42	4 58	27 20			n.a.
S 31	2n48	22s37	3s35	12n52	2n31	2s19	1s23	6s42	1n54	23s44	0s 2	23n53	0n15	18s14	0n11	11s17	1s21	8s24	15s36	4s41	4s59	27s21			n.a.

Julian Day Number = 1679113.5, Delta T = 03h16m26s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'54, Lahiri = - 5°32'54 Julian Calendar 1 March 116 BCE == Greg. Calendar 26 Feb. 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

APRIL 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 24 52	7♈56'56	18♒ 3	28♈16	28♓38	21°R 9	1♑45	4♋20	21°R47	4♓22	15♈ 1	18♓18	17♓27	10♐43	n.a.	S 1
M 2	12 28 49	8°55'02	1♓ 6	29°29	29°52	20♎51	1°49	4°22	21♏45	4°24	15° 2	18°19	17°24	10°50	n.a.	M 2
T 3	12 32 45	9°53'06	14°31	0♉37	1♈ 6	20°32	1°53	4°25	21°44	4°26	15° 4	18°R20	17°21	10°57	n.a.	T 3
W 4	12 36 42	10°51'08	28°20	1°40	2°19	20°13	1°57	4°28	21°42	4°28	15° 5	18°20	17°18	11° 3	n.a.	W 4
T 5	12 40 38	11°49'09	12♈30	2°39	3°33	19°54	2° 0	4°30	21°40	4°30	15° 7	18°18	17°15	11°10	n.a.	T 5
F 6	12 44 35	12°47'08	26°56	3°33	4°47	19°34	2° 4	4°33	21°39	4°32	15° 8	18°16	17°12	11°17	n.a.	F 6
S 7	12 48 31	13°45'05	11♉34	4°21	6° 1	19°14	2° 7	4°36	21°37	4°34	15° 9	18°12	17° 8	11°23	n.a.	S 7
S 8	12 52 28	14°43'01	26°15	5° 6	7°15	18°53	2°10	4°40	21°35	4°36	15°11	18° 9	17° 5	11°30	n.a.	S 8
M 9	12 56 24	15°40'54	10♊54	5°45	8°28	18°32	2°13	4°43	21°33	4°38	15°12	18° 5	17° 2	11°37	n.a.	M 9
T 10	13 0 21	16°38'46	25°24	6°19	9°42	18°11	2°15	4°46	21°32	4°39	15°13	18° 3	16°59	11°44	n.a.	T 10
W11	13 4 18	17°36'36	9♋40	6°48	10°56	17°50	2°18	4°49	21°30	4°41	15°15	18° 1	16°56	11°50	n.a.	W11
T 12	13 8 14	18°34'25	23°42	7°12	12°10	17°29	2°20	4°53	21°28	4°43	15°16	18°D 1	16°52	11°57	n.a.	T 12
F 13	13 12 11	19°32'11	7♌27	7°30	13°23	17° 7	2°22	4°57	21°26	4°45	15°17	18° 2	16°49	12° 4	n.a.	F 13
S 14	13 16 7	20°29'55	20°56	7°44	14°37	16°46	2°24	5° 0	21°24	4°46	15°19	18° 4	16°46	12°11	n.a.	S 14
S 15	13 20 4	21°27'38	4♍ 9	7°53	15°51	16°25	2°26	5° 4	21°22	4°48	15°20	18° 5	16°43	12°17	n.a.	S 15
M16	13 24 0	22°25'19	17° 9	7°R57	17° 4	16° 3	2°27	5° 8	21°20	4°50	15°22	18°R 6	16°40	12°24	n.a.	M16
T 17	13 27 57	23°22'58	29°57	7°55	18°18	15°42	2°29	5°12	21°18	4°51	15°23	18° 5	16°37	12°31	n.a.	T 17
W18	13 31 53	24°20'36	12♎33	7°50	19°32	15°21	2°30	5°16	21°16	4°53	15°24	18° 3	16°33	12°37	n.a.	W18
T 19	13 35 50	25°18'12	24°58	7°39	20°46	15° 0	2°31	5°20	21°14	4°55	15°26	17°59	16°30	12°44	n.a.	T 19
F 20	13 39 46	26°15'47	7♏14	7°25	21°59	14°40	2°31	5°24	21°11	4°56	15°27	17°53	16°27	12°51	n.a.	F 20
S 21	13 43 43	27°13'21	19°21	7° 6	23°13	14°19	2°32	5°28	21° 9	4°58	15°28	17°46	16°24	12°58	n.a.	S 21
S 22	13 47 40	28°10'53	1♐21	6°44	24°27	13°59	2°32	5°33	21° 7	4°59	15°30	17°39	16°21	13° 4	n.a.	S 22
M23	13 51 36	29° 8'25	13°16	6°19	25°40	13°40	2°33	5°37	21° 5	5° 1	15°31	17°32	16°18	13°11	n.a.	M23
T 24	13 55 33	0♑ 5'55	25° 8	5°51	26°54	13°20	2°R33	5°42	21° 3	5° 2	15°32	17°26	16°14	13°18	n.a.	T 24
W25	13 59 29	1° 3'24	7♑ 2	5°20	28° 8	13° 2	2°32	5°46	21° 0	5° 4	15°34	17°21	16°11	13°25	n.a.	W25
T 26	14 3 26	2° 0'53	18°59	4°48	29°21	12°43	2°32	5°51	20°58	5° 5	15°35	17°18	16° 8	13°31	n.a.	T 26
F 27	14 7 22	2°58'20	1♒ 6	4°15	0♉35	12°25	2°31	5°56	20°56	5° 7	15°36	17°D17	16° 5	13°38	n.a.	F 27
S 28	14 11 19	3°55'47	13°26	3°41	1°49	12° 8	2°31	6° 1	20°54	5° 8	15°38	17°18	16° 2	13°45	n.a.	S 28
S 29	14 15 16	4°53'13	26° 5	3° 7	3° 2	11°51	2°30	6° 6	20°51	5° 9	15°39	17°19	15°58	13°51	n.a.	S 29
M30	14 19 12	5♉50'38	9♓ 7	2♉34	4♉16	11♎35	2♑29	6♋11	20♏49	5♓11	15♈40	17♓20	15♓55	13♐58	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n11	18s 7	2s39	13n25	2n37	1s48	1s22	6s37	1n52	23s44	0s 2	23n53	0n15	18s14	0n11	11s16	1s21	8s23	15s36	4s41	5s 1	27s22		n.a.
M 2	3 34	12 40	1 34	13 55	2 41	1 18	1 21	6 32	1 50	23 44	0 2	23 53	0 15	18 14	0 11	11 15	1 21	8 23	15 36	4 40	5 2	27 23		n.a.
T 3	3 58	6 29	0 21	14 23	2 44	0 47	1 20	6 27	1 47	23 44	0 3	23 53	0 15	18 13	0 11	11 15	1 21	8 22	15 36	4 40	5 3	27 24		n.a.
W 4	4 21	0n10	0n55	14 48	2 47	0 17	1 19	6 22	1 45	23 45	0 3	23 53	0 15	18 13	0 11	11 14	1 21	8 22	15 36	4 40	5 4	27 25		n.a.
T 5	4 43	6 58	2 9	15 10	2 49	0n14	1 18	6 17	1 43	23 45	0 3	23 53	0 15	18 12	0 11	11 13	1 21	8 21	15 36	4 41	5 6	27 26		n.a.
F 6	5 6	13 32	3 16	15 29	2 49	0 45	1 17	6 11	1 41	23 45	0 3	23 53	0 15	18 12	0 11	11 13	1 21	8 20	15 36	4 42	5 7	27 27		n.a.
S 7	5 29	19 27	4 12	15 46	2 49	1 15	1 16	6 6	1 38	23 45	0 3	23 53	0 15	18 11	0 11	11 12	1 21	8 20	15 36	4 43	5 8	27 28		n.a.
S 8	5 52	24 14	4 51	15 59	2 47	1 46	1 15	6 0	1 36	23 45	0 3	23 53	0 15	18 11	0 11	11 11	1 21	8 19	15 36	4 44	5 9	27 29		n.a.
M 9	6 14	27 27	5 10	16 10	2 45	2 16	1 14	5 55	1 33	23 45	0 3	23 53	0 15	18 10	0 11	11 11	1 21	8 19	15 36	4 46	5 11	27 30		n.a.
T 10	6 37	28 48	5 10	16 18	2 41	2 47	1 12	5 49	1 31	23 45	0 4	23 53	0 15	18 10	0 11	11 10	1 21	8 18	15 36	4 47	5 12	27 31		n.a.
W11	6 59	28 11	4 51	16 24	2 36	3 17	1 11	5 43	1 28	23 45	0 4	23 53	0 16	18 9	0 11	11 9	1 21	8 18	15 36	4 47	5 13	27 32		n.a.
T 12	7 22	25 47	4 14	16 26	2 31	3 48	1 9	5 37	1 25	23 45	0 4	23 53	0 16	18 9	0 11	11 9	1 21	8 17	15 36	4 47	5 14	27 33		n.a.
F 13	7 44	21 54	3 24	16 26	2 24	4 18	1 8	5 32	1 23	23 45	0 4	23 53	0 16	18 8	0 11	11 8	1 21	8 17	15 36	4 47	5 16	27 34		n.a.
S 14	8 6	16 56	2 23	16 23	2 16	4 48	1 6	5 26	1 20	23 46	0 4	23 53	0 16	18 8	0 11	11 8	1 21	8 16	15 36	4 46	5 17	27 35		n.a.
S 15	8 28	11 16	1 15	16 17	2 7	5 18	1 5	5 20	1 17	23 46	0 4	23 53	0 16	18 7	0 11	11 7	1 21	8 16	15 36	4 46	5 18	27 36		n.a.
M16	8 49	5 12	0 5	16 9	1 56	5 48	1 3	5 15	1 14	23 46	0 5	23 53	0 16	18 7	0 11	11 6	1 21	8 15	15 36	4 45	5 19	27 37		n.a.
T 17	9 11	0s57	1s 4	15 58	1 45	6 18	1 2	5 9	1 11	23 46	0 5	23 52	0 16	18 6	0 11	11 6	1 21	8 15	15 36	4 46	5 21	27 38		n.a.
W18	9 32	6 59	2 9	15 44	1 33	6 48	1 0	5 4	1 8	23 46	0 5	23 52	0 16	18 6	0 11	11 5	1 21	8 14	15 36	4 47	5 22	27 39		n.a.
T 19	9 54	12 40	3 7	15 28	1 19	7 18	0 58	4 58	1 5	23 46	0 5	23 52	0 16	18 5	0 11	11 5	1 21	8 14	15 36	4 48	5 23	27 40		n.a.
F 20	10 15	17 46	3 55	15 10	1 5	7 47	0 56	4 53	1 2	23 46	0 5	23 52	0 16	18 5	0 11	11 4	1 21	8 13	15 36	4 51	5 24	27 41		n.a.
S 21	10 36	22 7	4 32	14 50	0 50	8 17	0 55	4 48	0 59	23 46	0 5	23 52	0 16	18 4	0 11	11 4	1 21	8 13	15 36	4 53	5 26	27 42		n.a.
S 22	10 57	25 30	4 56	14 28	0 35	8 46	0 53	4 43	0 56	23 47	0 5	23 52	0 16	18 4	0 11	11 3	1 21	8 12	15 36	4 56	5 27	27 43		n.a.
M23	11 18	27 44	5 8	14 4	0 18	9 15	0 51	4 38	0 53	23 47	0 6	23 52	0 16	18 3	0 11	11 3	1 22	8 12	15 36	4 59	5 28	27 44		n.a.
T 24	11 38	28 43	5 6	13 39	0 2	9 43	0 49	4 33	0 50	23 47	0 6	23 52	0 16	18 2	0 11	11 2	1 22	8 11	15 36	5 1	5 29	27 45		n.a.
W25	11 58	28 22	4 51	13 12	0s15	10 12	0 47	4 29	0 47	23 47	0 6	23 52	0 16	18 2	0 11	11 1	1 22	8 11	15 36	5 3	5 31	27 46		n.a.
T 26	12 19	26 41	4 23	12 45	0 33	10 40	0 45	4 25	0 44	23 47	0 6	23 51	0 17	18 1	0 11	11 1	1 22	8 11	15 36	5 4	5 32	27 47		n.a.
F 27	12 39	23 46	3 43	12 18	0 50	11 8	0 43	4 20	0 41	23 47	0 6	23 51	0 17	18 1	0 11	11 1	1 22	8 10	15 36	5 5	5 33	27 48		n.a.
S 28	12 58	19 44	2 52	11 50	1 7	11 36	0 41	4 16	0 38	23 48	0 6	23 51	0 17	18 0	0 11	11 0	1 22	8 10	15 36	5 4	5 34	27 49		n.a.
S 29	13 18	14 43	1 52	11 23	1 24	12 4	0 39	4 13	0 35	23 48	0 7	23 51	0 17	17 59	0 11	11 0	1 22	8 9	15 36	5 4	5 36	27 50		n.a.
M30	13n37	8s55	0s44	10n56	1s40	12n31	0s37	4s 9	0n31	23s48	0s 7	23n51	0n17	17s59	0n11	10s59	1s22	8s 9	15s36	5s 4	5s37	27s50		n.a.

Julian Day Number = 1679144.5, Delta T = 03h16m25s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'50, Lahiri = - 5°32'50 Julian Calendar 1 Apr. 116 BCE == Greg. Calendar 29 March 116 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

MAY 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 23 9	6♉48'01	22♓34	2°R 1	5♉30	11°R20	2°R27	6♋16	20°R47	5♓12	15♈41	17°R20	15♓52	14♐ 5	n.a.	T 1
W 2	14 27 5	7°45'25	6♈29	1♉31	6°43	11♎ 5	2♑26	6°21	20♏44	5°13	15°43	17♓18	15°49	14°12	n.a.	W 2
T 3	14 31 2	8°42'47	20°51	1° 3	7°57	10°51	2°24	6°26	20°42	5°15	15°44	17°15	15°46	14°18	n.a.	T 3
F 4	14 34 58	9°40'09	5♉34	0°37	9°11	10°37	2°22	6°31	20°39	5°16	15°45	17° 9	15°43	14°25	n.a.	F 4
S 5	14 38 55	10°37'29	20°33	0°14	10°24	10°25	2°20	6°37	20°37	5°17	15°46	17° 2	15°39	14°32	n.a.	S 5
S 6	14 42 51	11°34'49	5♊39	29♈55	11°38	10°13	2°18	6°42	20°35	5°18	15°48	16°54	15°36	14°39	n.a.	S 6
M 7	14 46 48	12°32'08	20°40	29°40	12°52	10° 2	2°16	6°48	20°32	5°19	15°49	16°46	15°33	14°45	n.a.	M 7
T 8	14 50 45	13°29'26	5♋29	29°28	14° 6	9°51	2°13	6°53	20°30	5°20	15°50	16°39	15°30	14°52	n.a.	T 8
W 9	14 54 41	14°26'43	19°59	29°21	15°19	9°42	2°10	6°59	20°27	5°22	15°51	16°35	15°27	14°59	n.a.	W 9
T 10	14 58 38	15°23'59	4♌ 6	29°D18	16°33	9°33	2° 7	7° 5	20°25	5°23	15°53	16°33	15°23	15° 5	n.a.	T 10
F 11	15 2 34	16°21'13	17°49	29°20	17°47	9°25	2° 4	7°10	20°22	5°24	15°54	16°D32	15°20	15°12	n.a.	F 11
S 12	15 6 31	17°18'27	1♍10	29°26	19° 0	9°18	2° 1	7°16	20°20	5°25	15°55	16°33	15°17	15°19	n.a.	S 12
S 13	15 10 27	18°15'39	14°12	29°36	20°14	9°12	1°57	7°22	20°17	5°26	15°56	16°R33	15°14	15°26	n.a.	S 13
M14	15 14 24	19°12'51	26°57	29°51	21°28	9° 6	1°53	7°28	20°15	5°26	15°57	16°33	15°11	15°32	n.a.	M14
T 15	15 18 20	20°10'02	9♎28	0♉11	22°41	9° 2	1°50	7°34	20°13	5°27	15°59	16°30	15° 8	15°39	n.a.	T 15
W16	15 22 17	21° 7'12	21°48	0°35	23°55	8°58	1°46	7°40	20°10	5°28	16° 0	16°25	15° 4	15°46	n.a.	W16
T 17	15 26 14	22° 4'21	4♏ 0	1° 3	25° 8	8°55	1°41	7°46	20° 8	5°29	16° 1	16°18	15° 1	15°52	n.a.	T 17
F 18	15 30 10	23° 1'30	16° 5	1°36	26°22	8°53	1°37	7°52	20° 5	5°30	16° 2	16° 8	14°58	15°59	n.a.	F 18
S 19	15 34 7	23°58'38	28° 5	2°13	27°36	8°52	1°32	7°59	20° 3	5°31	16° 3	15°56	14°55	16° 6	n.a.	S 19
S 20	15 38 3	24°55'46	10♐ 0	2°55	28°49	8°D51	1°28	8° 5	20° 0	5°31	16° 4	15°44	14°52	16°13	n.a.	S 20
M21	15 42 0	25°52'54	21°53	3°40	0♊ 3	8°51	1°23	8°11	19°58	5°32	16° 5	15°32	14°49	16°19	n.a.	M21
T 22	15 45 56	26°50'01	3♑45	4°30	1°17	8°53	1°18	8°18	19°55	5°33	16° 6	15°21	14°45	16°26	n.a.	T 22
W23	15 49 53	27°47'08	15°39	5°24	2°30	8°55	1°13	8°24	19°53	5°33	16° 8	15°12	14°42	16°33	n.a.	W23
T 24	15 53 49	28°44'15	27°37	6°21	3°44	8°57	1° 8	8°31	19°51	5°34	16° 9	15° 6	14°39	16°40	n.a.	T 24
F 25	15 57 46	29°41'22	9♒43	7°23	4°58	9° 1	1° 2	8°37	19°48	5°35	16°10	15° 2	14°36	16°46	n.a.	F 25
S 26	16 1 43	0♊38'29	22° 1	8°28	6°11	9° 5	0°57	8°44	19°46	5°35	16°11	15° 0	14°33	16°53	n.a.	S 26
S 27	16 5 39	1°35'36	4♓37	9°38	7°25	9°10	0°51	8°50	19°43	5°36	16°12	15°D 0	14°29	17° 0	n.a.	S 27
M28	16 9 36	2°32'43	17°34	10°51	8°39	9°16	0°45	8°57	19°41	5°36	16°13	15°R 0	14°26	17° 6	n.a.	M28
T 29	16 13 32	3°29'50	0♈57	12° 7	9°53	9°23	0°39	9° 4	19°39	5°37	16°14	14°59	14°23	17°13	n.a.	T 29
W30	16 17 29	4°26'57	14°49	13°27	11° 6	9°30	0°33	9°10	19°36	5°37	16°15	14°57	14°20	17°20	n.a.	W30
T 31	16 21 25	5♊24'05	29♈10	14♉51	12♊20	9♎38	0♑27	9♋17	19♏34	5♓38	16♈16	14♓52	14♓17	17♐27	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	13n56	2s33	0n28	10n30	1s56	12n58	0s34	4s 6	0n28	23s48	0s 7	23n51	0n17	17s58	0n11	10s59	1s22	8s 8	15s36	5s 4	5s38	27s51			n.a.
W 2	14 15	4n 9	1 41	10 5	2 11	13 24	0 32	4 3	0 25	23 48	0 7	23 50	0 17	17 58	0 11	10 58	1 22	8 8	15 37	5 4	5 39	27 52			n.a.
T 3	14 34	10 51	2 50	9 42	2 25	13 51	0 30	4 0	0 22	23 49	0 7	23 50	0 17	17 57	0 11	10 58	1 22	8 8	15 37	5 6	5 41	27 53			n.a.
F 4	14 52	17 7	3 49	9 21	2 38	14 17	0 28	3 57	0 19	23 49	0 7	23 50	0 17	17 56	0 11	10 57	1 22	8 7	15 37	5 8	5 42	27 54			n.a.
S 5	15 11	22 29	4 34	9 1	2 51	14 42	0 26	3 55	0 16	23 49	0 8	23 50	0 17	17 56	0 11	10 57	1 22	8 7	15 37	5 11	5 43	27 55			n.a.
S 6	15 29	26 24	4 59	8 44	3 2	15 8	0 23	3 53	0 13	23 49	0 8	23 50	0 17	17 55	0 11	10 57	1 22	8 7	15 37	5 14	5 44	27 55			n.a.
M 7	15 47	28 26	5 4	8 29	3 12	15 33	0 21	3 52	0 10	23 49	0 8	23 49	0 17	17 54	0 11	10 56	1 22	8 6	15 37	5 17	5 46	27 56			n.a.
T 8	16 4	28 25	4 49	8 17	3 21	15 57	0 19	3 50	0 7	23 50	0 8	23 49	0 17	17 54	0 11	10 56	1 22	8 6	15 37	5 20	5 47	27 57			n.a.
W 9	16 21	26 25	4 15	8 7	3 29	16 21	0 16	3 49	0 4	23 50	0 8	23 49	0 17	17 53	0 11	10 56	1 22	8 5	15 37	5 21	5 48	27 58			n.a.
T 10	16 38	22 48	3 27	8 0	3 35	16 45	0 14	3 48	0 1	23 50	0 8	23 49	0 18	17 52	0 11	10 55	1 22	8 5	15 37	5 22	5 49	27 59			n.a.
F 11	16 55	18 0	2 27	7 56	3 40	17 8	0 12	3 48	0s 2	23 50	0 9	23 48	0 18	17 52	0 11	10 55	1 22	8 5	15 38	5 22	5 51	27 59			n.a.
S 12	17 12	12 27	1 21	7 54	3 45	17 31	0 9	3 48	0 4	23 50	0 9	23 48	0 18	17 51	0 11	10 55	1 22	8 4	15 38	5 22	5 52	28 0			n.a.
S 13	17 28	6 29	0 13	7 55	3 48	17 54	0 7	3 48	0 7	23 51	0 9	23 48	0 18	17 50	0 11	10 54	1 23	8 4	15 38	5 22	5 53	28 1			n.a.
M14	17 44	0 23	0s55	7 58	3 50	18 15	0 5	3 48	0 10	23 51	0 9	23 48	0 18	17 50	0 11	10 54	1 23	8 4	15 38	5 22	5 54	28 2			n.a.
T 15	17 59	5s37	1 59	8 4	3 51	18 37	0 2	3 49	0 13	23 51	0 9	23 47	0 18	17 49	0 11	10 54	1 23	8 4	15 38	5 23	5 55	28 3			n.a.
W16	18 15	11 18	2 56	8 13	3 50	18 58	0n 0	3 50	0 15	23 51	0 9	23 47	0 18	17 48	0 11	10 53	1 23	8 3	15 38	5 25	5 57	28 3			n.a.
T 17	18 30	16 30	3 44	8 24	3 49	19 18	0 2	3 51	0 18	23 52	0 10	23 47	0 18	17 48	0 11	10 53	1 23	8 3	15 39	5 28	5 58	28 4			n.a.
F 18	18 44	21 0	4 22	8 37	3 47	19 38	0 5	3 53	0 21	23 52	0 10	23 47	0 18	17 47	0 11	10 53	1 23	8 3	15 39	5 32	5 59	28 5			n.a.
S 19	18 59	24 37	4 47	8 52	3 44	19 58	0 7	3 54	0 23	23 52	0 10	23 46	0 18	17 47	0 11	10 53	1 23	8 2	15 39	5 36	6 0	28 5			n.a.
S 20	19 13	27 9	5 0	9 10	3 40	20 17	0 10	3 57	0 26	23 52	0 10	23 46	0 18	17 46	0 11	10 52	1 23	8 2	15 39	5 41	6 2	28 6			n.a.
M21	19 27	28 26	4 59	9 30	3 36	20 35	0 12	3 59	0 28	23 53	0 10	23 46	0 18	17 45	0 11	10 52	1 23	8 2	15 39	5 46	6 3	28 7			n.a.
T 22	19 40	28 25	4 46	9 52	3 30	20 53	0 14	4 2	0 31	23 53	0 10	23 45	0 18	17 45	0 11	10 52	1 23	8 2	15 39	5 50	6 4	28 8			n.a.
W23	19 53	27 5	4 20	10 16	3 24	21 10	0 17	4 5	0 33	23 53	0 11	23 45	0 18	17 44	0 11	10 52	1 23	8 1	15 40	5 54	6 5	28 8			n.a.
T 24	20 6	24 31	3 43	10 41	3 17	21 27	0 19	4 8	0 36	23 53	0 11	23 45	0 18	17 43	0 11	10 52	1 23	8 1	15 40	5 56	6 7	28 9			n.a.
F 25	20 19	20 50	2 55	11 9	3 10	21 43	0 21	4 12	0 38	23 53	0 11	23 44	0 19	17 43	0 11	10 51	1 23	8 1	15 40	5 58	6 8	28 10			n.a.
S 26	20 31	16 12	1 59	11 37	3 2	21 58	0 24	4 15	0 40	23 54	0 11	23 44	0 19	17 42	0 11	10 51	1 23	8 1	15 40	5 58	6 9	28 10			n.a.
S 27	20 43	10 47	0 55	12 8	2 53	22 13	0 26	4 19	0 42	23 54	0 11	23 43	0 19	17 41	0 11	10 51	1 23	8 1	15 40	5 58	6 10	28 11			n.a.
M28	20 54	4 45	0n14	12 39	2 44	22 28	0 28	4 24	0 45	23 54	0 11	23 43	0 19	17 41	0 11	10 51	1 23	8 0	15 41	5 58	6 12	28 12			n.a.
T 29	21 6	1n39	1 23	13 12	2 34	22 41	0 30	4 28	0 47	23 54	0 12	23 43	0 19	17 40	0 11	10 51	1 23	8 0	15 41	5 59	6 13	28 12			n.a.
W30	21 16	8 13	2 31	13 46	2 24	22 54	0 33	4 33	0 49	23 54	0 12	23 42	0 19	17 39	0 11	10 51	1 23	8 0	15 41	6 0	6 14	28 13			n.a.
T 31	21n27	14n35	3n31	14n21	2s13	23n 6	0n35	4s38	0s51	23s55	0s12	23n42	0n19	17s39	0n11	10s51	1s23	8s 0	15s41	6s 2	6s15	28s13			n.a.

Julian Day Number = 1679174.5, Delta T = 03h16m24s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'46, Lahiri = - 5°32'46 Julian Calendar 1 May 116 BCE == Greg. Calendar 28 Apr. 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

JUNE 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 25 22	6♊21'13	13♉57	16♉19	13♊34	9♎47	0°R20	9♋24	19°R32	5♓38	16♈17	14°R44	14♓14	17♐33	n.a.	F 1
S 2	16 29 18	7°18'20	29° 4	17°50	14°47	9°57	0♏14	9°31	19♏29	5°38	16°17	14♓35	14°10	17°40	n.a.	S 2
S 3	16 33 15	8°15'28	14♊21	19°24	16° 1	10° 7	0° 7	9°38	19°27	5°39	16°18	14°24	14° 7	17°47	n.a.	S 3
M 4	16 37 12	9°12'36	29°37	21° 2	17°15	10°18	0° 1	9°45	19°25	5°39	16°19	14°13	14° 4	17°54	n.a.	M 4
T 5	16 41 8	10° 9'45	14♋42	22°43	18°28	10°30	29♐54	9°52	19°22	5°39	16°20	14° 5	14° 1	18° 0	n.a.	T 5
W 6	16 45 5	11° 6'52	29°25	24°27	19°42	10°42	29°47	9°59	19°20	5°39	16°21	13°58	13°58	18° 7	n.a.	W 6
T 7	16 49 1	12° 4'00	13♌42	26°15	20°56	10°55	29°40	10° 6	19°18	5°39	16°22	13°54	13°55	18°14	n.a.	T 7
F 8	16 52 58	13° 1'08	27°32	28° 5	22°10	11° 9	29°33	10°13	19°16	5°40	16°23	13°52	13°51	18°20	n.a.	F 8
S 9	16 56 54	13°58'15	10♍54	29°58	23°23	11°23	29°26	10°20	19°14	5°40	16°24	13°52	13°48	18°27	n.a.	S 9
S 10	17 0 51	14°55'23	23°53	1♊54	24°37	11°38	29°19	10°28	19°11	5°40	16°24	13°52	13°45	18°34	n.a.	S 10
M11	17 4 48	15°52'30	6♎32	3°53	25°51	11°54	29°11	10°35	19° 9	5°40	16°25	13°51	13°42	18°41	n.a.	M11
T 12	17 8 44	16°49'38	18°55	5°53	27° 5	12°10	29° 4	10°42	19° 7	5°R40	16°26	13°48	13°39	18°47	n.a.	T 12
W13	17 12 41	17°46'45	1♏ 6	7°56	28°18	12°27	28°57	10°49	19° 5	5°40	16°27	13°42	13°35	18°54	n.a.	W13
T 14	17 16 37	18°43'53	13°10	10° 0	29°32	12°44	28°49	10°57	19° 3	5°40	16°27	13°34	13°32	19° 1	n.a.	T 14
F 15	17 20 34	19°41'01	25° 7	12° 6	0♋46	13° 2	28°42	11° 4	19° 1	5°40	16°28	13°23	13°29	19° 8	n.a.	F 15
S 16	17 24 30	20°38'10	7♐ 2	14°13	1°59	13°21	28°34	11°11	18°59	5°39	16°29	13°10	13°26	19°14	n.a.	S 16
S 17	17 28 27	21°35'19	18°54	16°20	3°13	13°40	28°26	11°19	18°57	5°39	16°29	12°57	13°23	19°21	n.a.	S 17
M18	17 32 23	22°32'29	0♑47	18°28	4°27	13°59	28°19	11°26	18°55	5°39	16°30	12°43	13°20	19°28	n.a.	M18
T 19	17 36 20	23°29'39	12°41	20°36	5°41	14°19	28°11	11°34	18°53	5°39	16°31	12°31	13°16	19°34	n.a.	T 19
W20	17 40 17	24°26'50	24°39	22°44	6°54	14°40	28° 3	11°41	18°52	5°39	16°31	12°21	13°13	19°41	n.a.	W20
T 21	17 44 13	25°24'01	6♒41	24°52	8° 8	15° 1	27°56	11°49	18°50	5°38	16°32	12°14	13°10	19°48	n.a.	T 21
F 22	17 48 10	26°21'14	18°51	27° 0	9°22	15°23	27°48	11°56	18°48	5°38	16°33	12°10	13° 7	19°55	n.a.	F 22
S 23	17 52 6	27°18'27	1♓12	29° 6	10°35	15°45	27°40	12° 4	18°46	5°38	16°33	12° 8	13° 4	20° 1	n.a.	S 23
S 24	17 56 3	28°15'41	13°48	1♋12	11°49	16° 8	27°32	12°11	18°45	5°37	16°34	12°D 7	13° 1	20° 8	n.a.	S 24
M25	17 59 59	29°12'56	26°44	3°16	13° 3	16°31	27°25	12°19	18°43	5°37	16°34	12°R 7	12°57	20°15	n.a.	M25
T 26	18 3 56	0♋10'12	10♈ 2	5°19	14°17	16°54	27°17	12°26	18°41	5°36	16°35	12° 7	12°54	20°21	n.a.	T 26
W27	18 7 52	1° 7'30	23°46	7°21	15°30	17°18	27° 9	12°34	18°40	5°36	16°35	12° 5	12°51	20°28	n.a.	W27
T 28	18 11 49	2° 4'48	7♉59	9°21	16°44	17°42	27° 1	12°42	18°38	5°35	16°36	12° 1	12°48	20°35	n.a.	T 28
F 29	18 15 46	3° 2'08	22°37	11°20	17°58	18° 7	26°54	12°49	18°37	5°35	16°36	11°55	12°45	20°42	n.a.	F 29
S 30	18 19 42	3♋59'29	7♊36	13♋18	19♋12	18♎33	26♐46	12♋57	18♏35	5♓34	16♈37	11♓46	12♓41	20♐48	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n37	20n19	4n19	14n57	2s 2	23n18	0n37	4s44	0s53	23s55	0s12	23n41	0n19	17s38	0n11	10s51	1s24	8s 0	15s41	6s 5	6s17	28s14		n.a.
S 2	21 47	24 53	4 49	15 34	1 51	23 29	0 39	4 49	0 55	23 55	0 12	23 41	0 19	17 38	0 11	10 51	1 24	8 0	15 42	6 8	6 18	28 15		n.a.
S 3	21 56	27 45	5 0	16 11	1 39	23 39	0 41	4 55	0 57	23 55	0 13	23 41	0 19	17 37	0 11	10 50	1 24	8 0	15 42	6 13	6 19	28 15		n.a.
M 4	22 5	28 32	4 50	16 49	1 28	23 49	0 44	5 2	0 59	23 55	0 13	23 40	0 19	17 36	0 11	10 50	1 24	7 59	15 42	6 17	6 20	28 16		n.a.
T 5	22 14	27 11	4 19	17 27	1 16	23 58	0 46	5 8	1 1	23 56	0 13	23 40	0 19	17 36	0 11	10 50	1 24	7 59	15 42	6 20	6 21	28 16		n.a.
W 6	22 22	23 57	3 32	18 4	1 4	24 6	0 48	5 14	1 3	23 56	0 13	23 39	0 19	17 35	0 11	10 50	1 24	7 59	15 43	6 23	6 23	28 17		n.a.
T 7	22 30	19 19	2 32	18 42	0 51	24 14	0 50	5 21	1 5	23 56	0 13	23 39	0 19	17 35	0 11	10 50	1 24	7 59	15 43	6 24	6 24	28 18		n.a.
F 8	22 37	13 48	1 25	19 19	0 39	24 20	0 52	5 28	1 6	23 56	0 13	23 38	0 20	17 34	0 11	10 50	1 24	7 59	15 43	6 25	6 25	28 18		n.a.
S 9	22 44	7 48	0 16	19 56	0 27	24 26	0 54	5 36	1 8	23 56	0 14	23 38	0 20	17 33	0 11	10 50	1 24	7 59	15 43	6 25	6 26	28 19		n.a.
S 10	22 51	1 39	0s53	20 31	0 16	24 32	0 56	5 43	1 10	23 56	0 14	23 37	0 20	17 33	0 11	10 50	1 24	7 59	15 44	6 25	6 28	28 19		n.a.
M11	22 57	4s24	1 57	21 6	0 4	24 36	0 58	5 51	1 11	23 56	0 14	23 37	0 20	17 32	0 11	10 50	1 24	7 59	15 44	6 25	6 29	28 20		n.a.
T 12	23 3	10 10	2 54	21 39	0n 7	24 40	0 59	5 59	1 13	23 57	0 14	23 36	0 20	17 32	0 11	10 50	1 24	7 59	15 44	6 27	6 30	28 20		n.a.
W13	23 9	15 27	3 42	22 11	0 18	24 43	1 1	6 7	1 15	23 57	0 14	23 36	0 20	17 31	0 11	10 51	1 24	7 59	15 44	6 29	6 31	28 21		n.a.
T 14	23 14	20 4	4 19	22 41	0 29	24 46	1 3	6 15	1 16	23 57	0 14	23 35	0 20	17 31	0 11	10 51	1 24	7 59	15 45	6 32	6 33	28 21		n.a.
F 15	23 18	23 52	4 45	23 9	0 39	24 47	1 5	6 24	1 18	23 57	0 15	23 35	0 20	17 30	0 11	10 51	1 24	7 59	15 45	6 36	6 34	28 22		n.a.
S 16	23 23	26 37	4 58	23 34	0 49	24 48	1 6	6 32	1 19	23 57	0 15	23 34	0 20	17 29	0 11	10 51	1 24	7 59	15 45	6 41	6 35	28 22		n.a.
S 17	23 26	28 11	4 58	23 57	0 57	24 48	1 8	6 41	1 21	23 57	0 15	23 34	0 20	17 29	0 11	10 51	1 24	7 59	15 45	6 46	6 36	28 23		n.a.
M18	23 30	28 28	4 45	24 18	1 6	24 48	1 10	6 50	1 22	23 57	0 15	23 33	0 20	17 28	0 11	10 51	1 24	7 59	15 46	6 52	6 38	28 23		n.a.
T 19	23 33	27 24	4 20	24 36	1 13	24 46	1 11	6 59	1 24	23 57	0 15	23 32	0 20	17 28	0 11	10 51	1 25	7 59	15 46	6 56	6 39	28 24		n.a.
W20	23 36	25 5	3 43	24 51	1 20	24 44	1 13	7 9	1 25	23 57	0 15	23 32	0 20	17 27	0 11	10 51	1 25	7 59	15 46	7 0	6 40	28 24		n.a.
T 21	23 38	21 39	2 56	25 3	1 26	24 41	1 14	7 18	1 26	23 57	0 16	23 31	0 21	17 27	0 11	10 51	1 25	7 59	15 47	7 3	6 41	28 25		n.a.
F 22	23 40	17 14	2 0	25 12	1 32	24 38	1 15	7 28	1 28	23 57	0 16	23 31	0 21	17 26	0 11	10 52	1 25	7 59	15 47	7 5	6 42	28 25		n.a.
S 23	23 41	12 4	0 58	25 19	1 37	24 34	1 17	7 38	1 29	23 57	0 16	23 30	0 21	17 26	0 11	10 52	1 25	7 59	15 47	7 5	6 44	28 25		n.a.
S 24	23 42	6 18	0n 9	25 23	1 41	24 28	1 18	7 48	1 30	23 57	0 16	23 29	0 21	17 26	0 11	10 52	1 25	7 59	15 47	7 6	6 45	28 26		n.a.
M25	23 43	0 9	1 17	25 24	1 44	24 23	1 19	7 58	1 31	23 57	0 16	23 29	0 21	17 25	0 11	10 52	1 25	7 59	15 48	7 5	6 46	28 26		n.a.
T 26	23 43	6n12	2 22	25 22	1 46	24 16	1 20	8 8	1 33	23 57	0 16	23 28	0 21	17 25	0 11	10 52	1 25	7 59	15 48	7 6	6 47	28 27		n.a.
W27	23 42	12 27	3 22	25 18	1 48	24 9	1 22	8 18	1 34	23 57	0 16	23 28	0 21	17 24	0 11	10 53	1 25	7 59	15 48	7 6	6 49	28 27		n.a.
T 28	23 42	18 17	4 11	25 12	1 49	24 1	1 23	8 29	1 35	23 57	0 17	23 27	0 21	17 24	0 11	10 53	1 25	7 59	15 49	7 8	6 50	28 27		n.a.
F 29	23 41	23 14	4 46	25 3	1 50	23 52	1 24	8 40	1 36	23 57	0 17	23 26	0 21	17 23	0 11	10 53	1 25	7 59	15 49	7 10	6 51	28 28		n.a.
S 30	23n39	26n47	5n 2	24n51	1n50	23n43	1n25	8s50	1s37	23s57	0s17	23n26	0n21	17s23	0n11	10s53	1s25	7s59	15s49	7s14	6s52	28s28		n.a.

Julian Day Number = 1679205.5, Delta T = 03h16m23s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'42, Lahiri = - 5°32'41 Julian Calendar 1 June 116 BCE == Greg. Calendar 29 May 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

JULY 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 23 39	4♋56'51	22♊49	15♋14	20♋25	18♎58	26°R38	13♋ 5	18°R34	5°R34	16♈37	11°R37	12♓38	20♐55	n.a.	S 1
M 2	18 27 35	5°54'14	8♋ 6	17° 8	21°39	19°25	26♐31	13°12	18♏32	5♓33	16°37	11♓27	12°35	21° 2	n.a.	M 2
T 3	18 31 32	6°51'38	23°13	19° 1	22°53	19°51	26°23	13°20	18°31	5°33	16°38	11°19	12°32	21° 9	n.a.	T 3
W 4	18 35 28	7°49'03	8♌ 3	20°52	24° 7	20°18	26°16	13°28	18°29	5°32	16°38	11°13	12°29	21°15	n.a.	W 4
T 5	18 39 25	8°46'28	22°28	22°41	25°20	20°45	26° 8	13°35	18°28	5°31	16°38	11°10	12°26	21°22	n.a.	T 5
F 6	18 43 22	9°43'55	6♍25	24°29	26°34	21°13	26° 1	13°43	18°27	5°30	16°39	11°D 8	12°22	21°29	n.a.	F 6
S 7	18 47 18	10°41'22	19°54	26°15	27°48	21°41	25°54	13°51	18°26	5°30	16°39	11° 8	12°19	21°35	n.a.	S 7
S 8	18 51 15	11°38'50	2♎56	28° 0	29° 2	22°10	25°46	13°58	18°25	5°29	16°39	11° 9	12°16	21°42	n.a.	S 8
M 9	18 55 11	12°36'20	15°36	29°43	0♌15	22°39	25°39	14° 6	18°24	5°28	16°39	11°R 9	12°13	21°49	n.a.	M 9
T 10	18 59 8	13°33'50	27°58	1♌25	1°29	23° 8	25°32	14°14	18°22	5°27	16°40	11° 8	12°10	21°56	n.a.	T 10
W11	19 3 4	14°31'21	10♏ 7	3° 5	2°43	23°37	25°25	14°21	18°21	5°26	16°40	11° 5	12° 7	22° 2	n.a.	W11
T 12	19 7 1	15°28'53	22° 6	4°43	3°57	24° 7	25°18	14°29	18°20	5°25	16°40	10°59	12° 3	22° 9	n.a.	T 12
F 13	19 10 57	16°26'26	4♐ 1	6°20	5°10	24°37	25°12	14°37	18°20	5°24	16°40	10°52	12° 0	22°16	n.a.	F 13
S 14	19 14 54	17°24'00	15°53	7°56	6°24	25° 8	25° 5	14°44	18°19	5°23	16°40	10°43	11°57	22°23	n.a.	S 14
S 15	19 18 51	18°21'36	27°46	9°29	7°38	25°39	24°59	14°52	18°18	5°22	16°41	10°33	11°54	22°29	n.a.	S 15
M16	19 22 47	19°19'13	9♑41	11° 2	8°51	26°10	24°52	15° 0	18°17	5°21	16°41	10°23	11°51	22°36	n.a.	M16
T 17	19 26 44	20°16'51	21°41	12°32	10° 5	26°41	24°46	15° 8	18°16	5°20	16°41	10°15	11°47	22°43	n.a.	T 17
W18	19 30 40	21°14'31	3♒46	14° 1	11°19	27°13	24°40	15°15	18°16	5°19	16°41	10° 7	11°44	22°49	n.a.	W18
T 19	19 34 37	22°12'12	15°58	15°29	12°33	27°45	24°33	15°23	18°15	5°18	16°41	10° 3	11°41	22°56	n.a.	T 19
F 20	19 38 33	23° 9'55	28°19	16°55	13°46	28°17	24°28	15°31	18°14	5°17	16°R41	10° 0	11°38	23° 3	n.a.	F 20
S 21	19 42 30	24° 7'39	10♓50	18°19	15° 0	28°50	24°22	15°38	18°14	5°16	16°41	9°D59	11°35	23°10	n.a.	S 21
S 22	19 46 26	25° 5'25	23°35	19°42	16°14	29°23	24°16	15°46	18°13	5°15	16°41	10° 0	11°32	23°16	n.a.	S 22
M23	19 50 23	26° 3'12	6♈35	21° 3	17°27	29°56	24°10	15°53	18°13	5°14	16°41	10° 1	11°28	23°23	n.a.	M23
T 24	19 54 20	27° 1'02	19°54	22°23	18°41	0♏30	24° 5	16° 1	18°13	5°12	16°41	10° 2	11°25	23°30	n.a.	T 24
W25	19 58 16	27°58'53	3♉35	23°40	19°55	1° 3	24° 0	16° 9	18°12	5°11	16°41	10°R 2	11°22	23°36	n.a.	W25
T 26	20 2 13	28°56'47	17°37	24°56	21° 8	1°37	23°55	16°16	18°12	5°10	16°40	10° 1	11°19	23°43	n.a.	T 26
F 27	20 6 9	29°54'42	2♊ 1	26°10	22°22	2°11	23°50	16°24	18°12	5° 9	16°40	9°58	11°16	23°50	n.a.	F 27
S 28	20 10 6	0♌52'40	16°43	27°22	23°35	2°46	23°45	16°31	18°11	5° 7	16°40	9°53	11°13	23°57	n.a.	S 28
S 29	20 14 2	1°50'39	1♋38	28°32	24°49	3°21	23°40	16°39	18°11	5° 6	16°40	9°48	11° 9	24° 3	n.a.	S 29
M30	20 17 59	2°48'41	16°38	29°40	26° 3	3°55	23°36	16°46	18°11	5° 5	16°40	9°42	11° 6	24°10	n.a.	M30
T 31	20 21 55	3♌46'44	1♌34	0♍46	27♌16	4♏31	23♐32	16♋54	18°D11	5♓ 3	16°40	9♓37	11♓ 3	24♐17	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23n37	28n27	4n57	24n38	1n49	23n33	1n25	9s 1	1s38	23s57	0s17	23n25	0n21	17s23	0n11	10s54	1s25	7s59	15s49	7s17	6s54	28s29			n.a.
M 2	23 35	27 58	4 31	24 23	1 48	23 22	1 26	9 12	1 39	23 57	0 17	23 24	0 21	17 22	0 11	10 54	1 25	8 0	15 50	7 21	6 55	28 29			n.a.
T 3	23 32	25 24	3 46	24 5	1 46	23 10	1 27	9 23	1 40	23 57	0 17	23 23	0 22	17 22	0 11	10 54	1 25	8 0	15 50	7 24	6 56	28 29			n.a.
W 4	23 29	21 8	2 47	23 46	1 43	22 58	1 28	9 35	1 41	23 57	0 18	23 23	0 22	17 21	0 11	10 55	1 25	8 0	15 50	7 26	6 57	28 30			n.a.
T 5	23 25	15 43	1 38	23 26	1 40	22 45	1 28	9 46	1 42	23 57	0 18	23 22	0 22	17 21	0 10	10 55	1 25	8 0	15 51	7 28	6 58	28 30			n.a.
F 6	23 21	9 39	0 25	23 3	1 37	22 32	1 29	9 57	1 43	23 57	0 18	23 21	0 22	17 21	0 10	10 55	1 25	8 0	15 51	7 28	7 0	28 30			n.a.
S 7	23 17	3 20	0s47	22 40	1 33	22 18	1 29	10 9	1 44	23 57	0 18	23 21	0 22	17 20	0 10	10 55	1 25	8 0	15 51	7 28	7 1	28 31			n.a.
S 8	23 12	2s55	1 54	22 15	1 29	22 3	1 30	10 21	1 45	23 57	0 18	23 20	0 22	17 20	0 10	10 56	1 26	8 1	15 52	7 28	7 2	28 31			n.a.
M 9	23 6	8 52	2 53	21 48	1 24	21 47	1 30	10 32	1 46	23 57	0 18	23 19	0 22	17 20	0 10	10 56	1 26	8 1	15 52	7 28	7 3	28 31			n.a.
T 10	23 1	14 20	3 43	21 21	1 19	21 31	1 30	10 44	1 47	23 56	0 18	23 18	0 22	17 20	0 10	10 57	1 26	8 1	15 52	7 28	7 5	28 31			n.a.
W11	22 55	19 9	4 22	20 53	1 13	21 15	1 30	10 56	1 47	23 56	0 18	23 18	0 22	17 19	0 10	10 57	1 26	8 1	15 52	7 30	7 6	28 32			n.a.
T 12	22 48	23 9	4 49	20 23	1 7	20 57	1 31	11 8	1 48	23 56	0 19	23 17	0 22	17 19	0 10	10 57	1 26	8 1	15 53	7 32	7 7	28 32			n.a.
F 13	22 41	26 9	5 3	19 53	1 1	20 39	1 31	11 20	1 49	23 56	0 19	23 16	0 22	17 19	0 10	10 58	1 26	8 2	15 53	7 34	7 8	28 32			n.a.
S 14	22 34	27 59	5 4	19 22	0 54	20 21	1 31	11 32	1 50	23 56	0 19	23 15	0 22	17 19	0 10	10 58	1 26	8 2	15 53	7 38	7 9	28 32			n.a.
S 15	22 26	28 33	4 52	18 51	0 48	20 2	1 31	11 44	1 50	23 56	0 19	23 15	0 23	17 18	0 10	10 58	1 26	8 2	15 54	7 42	7 11	28 33			n.a.
M16	22 18	27 47	4 27	18 18	0 40	19 42	1 30	11 56	1 51	23 56	0 19	23 14	0 23	17 18	0 10	10 59	1 26	8 2	15 54	7 45	7 12	28 33			n.a.
T 17	22 10	25 43	3 50	17 46	0 33	19 22	1 30	12 8	1 52	23 56	0 19	23 13	0 23	17 18	0 10	10 59	1 26	8 3	15 54	7 49	7 13	28 33			n.a.
W18	22 1	22 29	3 2	17 12	0 25	19 1	1 30	12 21	1 52	23 55	0 19	23 12	0 23	17 18	0 10	11 0	1 26	8 3	15 55	7 51	7 14	28 33			n.a.
T 19	21 51	18 14	2 6	16 39	0 17	18 40	1 30	12 33	1 53	23 55	0 19	23 12	0 23	17 18	0 10	11 0	1 26	8 3	15 55	7 53	7 16	28 34			n.a.
F 20	21 42	13 10	1 3	16 5	0 9	18 18	1 29	12 45	1 54	23 55	0 20	23 11	0 23	17 18	0 10	11 1	1 26	8 3	15 55	7 54	7 17	28 34			n.a.
S 21	21 32	7 31	0n 5	15 31	0 1	17 56	1 29	12 58	1 54	23 55	0 20	23 10	0 23	17 17	0 10	11 1	1 26	8 4	15 56	7 55	7 18	28 34			n.a.
S 22	21 21	1 28	1 13	14 57	0s 8	17 33	1 28	13 10	1 55	23 55	0 20	23 9	0 23	17 17	0 10	11 2	1 26	8 4	15 56	7 54	7 19	28 34			n.a.
M23	21 11	4n46	2 19	14 23	0 17	17 10	1 28	13 22	1 56	23 55	0 20	23 8	0 23	17 17	0 10	11 2	1 26	8 4	15 56	7 54	7 20	28 34			n.a.
T 24	21 0	10 56	3 19	13 48	0 26	16 46	1 27	13 35	1 56	23 55	0 20	23 7	0 23	17 17	0 10	11 3	1 26	8 5	15 56	7 53	7 22	28 35			n.a.
W25	20 48	16 45	4 10	13 14	0 35	16 22	1 26	13 47	1 57	23 55	0 20	23 7	0 23	17 17	0 10	11 3	1 26	8 5	15 57	7 53	7 23	28 35			n.a.
T 26	20 36	21 51	4 47	12 40	0 44	15 58	1 25	14 0	1 57	23 54	0 20	23 6	0 24	17 17	0 10	11 4	1 26	8 5	15 57	7 54	7 24	28 35			n.a.
F 27	20 24	25 48	5 7	12 6	0 53	15 33	1 24	14 12	1 58	23 54	0 20	23 5	0 24	17 17	0 10	11 4	1 26	8 5	15 57	7 55	7 25	28 35			n.a.
S 28	20 11	28 8	5 8	11 32	1 3	15 7	1 23	14 25	1 58	23 54	0 20	23 4	0 24	17 17	0 10	11 5	1 26	8 6	15 58	7 57	7 27	28 35			n.a.
S 29	19 58	28 30	4 48	10 59	1 12	14 41	1 22	14 37	1 59	23 54	0 21	23 3	0 24	17 17	0 10	11 5	1 26	8 6	15 58	7 59	7 28	28 35			n.a.
M30	19 45	26 46	4 8	10 26	1 22	14 15	1 21	14 50	1 59	23 54	0 21	23 2	0 24	17 17	0 10	11 6	1 26	8 7	15 58	8 1	7 29	28 35			n.a.
T 31	19n32	23n 9	3n12	9n54	1s32	13n48	1n20	15s 2	1s59	23s54	0s21	23n 2	0n24	17s17	0n10	11s 6	1s27	8s 7	15s59	8s 3	7s30	28s35			n.a.

Julian Day Number = 1679235.5, Delta T = 03h16m22s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'38, Lahiri = - 5°32'37 Julian Calendar 1 July 116 BCE == Greg. Calendar 28 June 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

AUGUST 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 25 52	4♌44'48	16♌17	1♍49	28♌30	5♏ 6	23°R27	17♋ 1	18♏11	5°R 2	16°R39	9°R34	11♓ 0	24♐24	n.a.	W 1
T 2	20 29 49	5°42'55	0♍40	2°50	29°44	5°42	23♐23	17° 9	18°11	5♓ 1	16♈39	9♓32	10°57	24°30	n.a.	T 2
F 3	20 33 45	6°41'03	14°39	3°49	0♍57	6°18	23°20	17°16	18°11	4°59	16°39	9°D32	10°53	24°37	n.a.	F 3
S 4	20 37 42	7°39'12	28°12	4°45	2°11	6°54	23°16	17°24	18°12	4°58	16°39	9°33	10°50	24°44	n.a.	S 4
S 5	20 41 38	8°37'24	11♎19	5°37	3°24	7°30	23°13	17°31	18°12	4°56	16°38	9°35	10°47	24°50	n.a.	S 5
M 6	20 45 35	9°35'36	24° 3	6°27	4°38	8° 7	23° 9	17°38	18°12	4°55	16°38	9°36	10°44	24°57	n.a.	M 6
T 7	20 49 31	10°33'51	6♏28	7°13	5°51	8°43	23° 6	17°46	18°12	4°53	16°38	9°R37	10°41	25° 4	n.a.	T 7
W 8	20 53 28	11°32'07	18°38	7°56	7° 5	9°20	23° 3	17°53	18°13	4°52	16°37	9°37	10°38	25°11	n.a.	W 8
T 9	20 57 24	12°30'24	0♐37	8°35	8°18	9°58	23° 1	18° 0	18°13	4°50	16°37	9°35	10°34	25°17	n.a.	T 9
F 10	21 1 21	13°28'44	12°31	9°11	9°32	10°35	22°58	18° 8	18°14	4°49	16°36	9°33	10°31	25°24	n.a.	F 10
S 11	21 5 18	14°27'05	24°24	9°41	10°45	11°13	22°56	18°15	18°14	4°47	16°36	9°29	10°28	25°31	n.a.	S 11
S 12	21 9 14	15°25'28	6♑18	10° 8	11°59	11°50	22°54	18°22	18°15	4°46	16°36	9°25	10°25	25°37	n.a.	S 12
M13	21 13 11	16°23'52	18°17	10°29	13°12	12°28	22°52	18°29	18°15	4°44	16°35	9°21	10°22	25°44	n.a.	M13
T 14	21 17 7	17°22'19	0♒24	10°45	14°26	13° 6	22°50	18°36	18°16	4°43	16°35	9°18	10°19	25°51	n.a.	T 14
W15	21 21 4	18°20'47	12°39	10°55	15°39	13°45	22°48	18°43	18°17	4°41	16°34	9°15	10°15	25°58	n.a.	W15
T 16	21 25 0	19°19'18	25° 6	11°R 0	16°53	14°23	22°47	18°50	18°18	4°40	16°34	9°14	10°12	26° 4	n.a.	T 16
F 17	21 28 57	20°17'50	7♓43	10°58	18° 6	15° 2	22°46	18°57	18°19	4°38	16°33	9°D13	10° 9	26°11	n.a.	F 17
S 18	21 32 53	21°16'24	20°33	10°49	19°19	15°41	22°45	19° 4	18°19	4°36	16°32	9°13	10° 6	26°18	n.a.	S 18
S 19	21 36 50	22°15'01	3♈36	10°34	20°33	16°20	22°44	19°11	18°20	4°35	16°32	9°14	10° 3	26°24	n.a.	S 19
M20	21 40 47	23°13'39	16°52	10°12	21°46	16°59	22°43	19°18	18°21	4°33	16°31	9°16	9°59	26°31	n.a.	M20
T 21	21 44 43	24°12'20	0♉22	9°43	22°59	17°38	22°43	19°25	18°22	4°31	16°31	9°17	9°56	26°38	n.a.	T 21
W22	21 48 40	25°11'04	14° 7	9° 7	24°13	18°17	22°43	19°31	18°23	4°30	16°30	9°18	9°53	26°45	n.a.	W22
T 23	21 52 36	26° 9'50	28° 6	8°24	25°26	18°57	22°D43	19°38	18°25	4°28	16°29	9°R18	9°50	26°51	n.a.	T 23
F 24	21 56 33	27° 8'38	12♊18	7°35	26°39	19°37	22°43	19°45	18°26	4°27	16°29	9°17	9°47	26°58	n.a.	F 24
S 25	22 0 29	28° 7'29	26°41	6°39	27°52	20°17	22°43	19°51	18°27	4°25	16°28	9°17	9°44	27° 5	n.a.	S 25
S 26	22 4 26	29° 6'22	11♋12	5°40	29° 6	20°57	22°44	19°58	18°28	4°23	16°27	9°15	9°40	27°11	n.a.	S 26
M27	22 8 22	0♍ 5'18	25°46	4°36	0♎19	21°37	22°45	20° 5	18°30	4°22	16°27	9°14	9°37	27°18	n.a.	M27
T 28	22 12 19	1° 4'15	10♌18	3°30	1°32	22°17	22°46	20°11	18°31	4°20	16°26	9°13	9°34	27°25	n.a.	T 28
W29	22 16 16	2° 3'15	24°40	2°23	2°45	22°58	22°47	20°17	18°33	4°18	16°25	9°13	9°31	27°32	n.a.	W29
T 30	22 20 12	3° 2'17	8♍49	1°16	3°58	23°39	22°48	20°24	18°34	4°17	16°24	9°D13	9°28	27°38	n.a.	T 30
F 31	22 24 9	4♍ 1'22	22♍39	0♍13	5♎12	24♏19	22♐50	20♋30	18♏36	4♓15	16♈24	9♓13	9♓25	27♐45	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	19n18	18n 6	2n 3	9n22	1s42	13n22	1n19	15s15	2s 0	23s54	0s21	23n 1	0n24	17s17	0n10	11s 7	1s27	8s 7	15s59	8s 4	7s31	28s36			n.a.
T 2	19 3	12 7	0 48	8 51	1 51	12 54	1 17	15 27	2 0	23 54	0 21	23 0	0 24	17 17	0 10	11 7	1 27	8 8	15 59	8 5	7 33	28 36			n.a.
F 3	18 49	5 41	0s28	8 21	2 1	12 27	1 16	15 40	2 1	23 54	0 21	22 59	0 24	17 17	0 10	11 8	1 27	8 8	15 59	8 5	7 34	28 36			n.a.
S 4	18 34	0s48	1 40	7 51	2 11	11 59	1 15	15 52	2 1	23 53	0 21	22 58	0 24	17 17	0 10	11 8	1 27	8 8	16 0	8 5	7 35	28 36			n.a.
S 5	18 19	7 3	2 45	7 23	2 20	11 30	1 13	16 5	2 1	23 53	0 21	22 57	0 25	17 17	0 10	11 9	1 27	8 9	16 0	8 4	7 36	28 36			n.a.
M 6	18 3	12 50	3 40	6 56	2 30	11 2	1 12	16 17	2 2	23 53	0 21	22 56	0 25	17 17	0 10	11 10	1 27	8 9	16 0	8 3	7 38	28 36			n.a.
T 7	17 47	17 57	4 22	6 30	2 39	10 33	1 10	16 29	2 2	23 53	0 21	22 56	0 25	17 17	0 10	11 10	1 27	8 9	16 1	8 3	7 39	28 36			n.a.
W 8	17 31	22 14	4 53	6 5	2 48	10 4	1 8	16 42	2 2	23 53	0 22	22 55	0 25	17 17	0 10	11 11	1 27	8 10	16 1	8 3	7 40	28 36			n.a.
T 9	17 15	25 33	5 9	5 42	2 57	9 34	1 6	16 54	2 2	23 53	0 22	22 54	0 25	17 18	0 10	11 11	1 27	8 10	16 1	8 4	7 41	28 36			n.a.
F 10	16 58	27 43	5 13	5 21	3 6	9 5	1 5	17 6	2 3	23 53	0 22	22 53	0 25	17 18	0 10	11 12	1 27	8 11	16 1	8 5	7 42	28 36			n.a.
S 11	16 41	28 38	5 3	5 1	3 15	8 35	1 3	17 18	2 3	23 53	0 22	22 52	0 25	17 18	0 10	11 12	1 27	8 11	16 2	8 6	7 44	28 36			n.a.
S 12	16 24	28 13	4 40	4 44	3 23	8 5	1 1	17 30	2 3	23 53	0 22	22 51	0 25	17 18	0 10	11 13	1 27	8 12	16 2	8 7	7 45	28 36			n.a.
M13	16 6	26 29	4 4	4 29	3 30	7 34	0 59	17 43	2 3	23 53	0 22	22 50	0 25	17 18	0 10	11 14	1 27	8 12	16 2	8 9	7 46	28 36			n.a.
T 14	15 48	23 30	3 18	4 16	3 37	7 4	0 57	17 54	2 3	23 53	0 22	22 49	0 25	17 18	0 10	11 14	1 27	8 12	16 2	8 10	7 47	28 36			n.a.
W15	15 30	19 27	2 21	4 7	3 44	6 33	0 54	18 6	2 4	23 53	0 22	22 49	0 26	17 19	0 10	11 15	1 27	8 13	16 3	8 11	7 48	28 36			n.a.
T 16	15 12	14 31	1 17	4 0	3 49	6 2	0 52	18 18	2 4	23 53	0 22	22 48	0 26	17 19	0 10	11 15	1 27	8 13	16 3	8 12	7 50	28 36			n.a.
F 17	14 53	8 54	0 8	3 56	3 54	5 31	0 50	18 30	2 4	23 53	0 22	22 47	0 26	17 19	0 10	11 16	1 27	8 14	16 3	8 12	7 51	28 36			n.a.
S 18	14 34	2 50	1n 2	3 56	3 58	5 0	0 48	18 42	2 4	23 53	0 22	22 46	0 26	17 19	0 10	11 17	1 27	8 14	16 4	8 12	7 52	28 36			n.a.
S 19	14 15	3n26	2 11	3 59	4 0	4 29	0 45	18 53	2 4	23 53	0 22	22 45	0 26	17 20	0 10	11 17	1 27	8 15	16 4	8 12	7 53	28 36			n.a.
M20	13 56	9 40	3 13	4 6	4 2	3 57	0 43	19 5	2 4	23 53	0 22	22 44	0 26	17 20	0 10	11 18	1 27	8 15	16 4	8 11	7 55	28 36			n.a.
T 21	13 36	15 34	4 6	4 17	4 2	3 26	0 41	19 16	2 4	23 53	0 23	22 43	0 26	17 20	0 10	11 19	1 27	8 16	16 4	8 11	7 56	28 36			n.a.
W22	13 16	20 48	4 46	4 32	4 0	2 54	0 38	19 28	2 4	23 53	0 23	22 42	0 26	17 21	0 10	11 19	1 27	8 16	16 5	8 10	7 57	28 36			n.a.
T 23	12 56	24 59	5 10	4 51	3 57	2 23	0 35	19 39	2 4	23 53	0 23	22 42	0 26	17 21	0 10	11 20	1 27	8 16	16 5	8 10	7 58	28 36			n.a.
F 24	12 36	27 44	5 16	5 15	3 52	1 51	0 33	19 50	2 4	23 53	0 23	22 41	0 27	17 21	0 10	11 20	1 27	8 17	16 5	8 11	7 59	28 35			n.a.
S 25	12 16	28 42	5 2	5 42	3 44	1 19	0 30	20 1	2 4	23 53	0 23	22 40	0 27	17 22	0 10	11 21	1 27	8 17	16 5	8 11	8 1	28 35			n.a.
S 26	11 55	27 41	4 29	6 12	3 35	0 47	0 28	20 12	2 5	23 53	0 23	22 39	0 27	17 22	0 10	11 22	1 27	8 18	16 5	8 11	8 2	28 35			n.a.
M27	11 34	24 48	3 38	6 46	3 24	0 15	0 25	20 22	2 4	23 54	0 23	22 38	0 27	17 22	0 10	11 22	1 27	8 18	16 6	8 12	8 3	28 35			n.a.
T 28	11 13	20 19	2 33	7 22	3 11	0s17	0 22	20 33	2 4	23 54	0 23	22 37	0 27	17 23	0 10	11 23	1 27	8 19	16 6	8 12	8 4	28 35			n.a.
W29	10 52	14 42	1 20	8 0	2 56	0 49	0 19	20 44	2 4	23 54	0 23	22 36	0 27	17 23	0 10	11 24	1 27	8 19	16 6	8 12	8 5	28 35			n.a.
T 30	10 30	8 24	0 2	8 40	2 40	1 21	0 16	20 54	2 4	23 54	0 23	22 36	0 27	17 24	0 9	11 24	1 27	8 20	16 6	8 12	8 7	28 35			n.a.
F 31	10n 9	1n49	1s14	9n19	2s22	1s53	0n13	21s 4	2s 4	23s54	0s23	22n35	0n27	17s24	0n 9	11s25	1s27	8s20	16s 7	8s12	8s 8	28s35			n.a.

Julian Day Number = 1679266.5, Delta T = 03h16m21s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'34, Lahiri = - 5°32'33 Julian Calendar 1 Aug. 116 BCE == Greg. Calendar 29 July 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

SEPTEMBER 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 28 5	5♍ 0'28	6♎ 8	29°R13	6♎25	25♏ 0	22♐51	20♋36	18♏37	4°R13	16°R23	9♓13	9♓21	27♐52	n.a.	S 1
S 2	22 32 2	5°59'36	19°15	28♌19	7°38	25°41	22°53	20°43	18°39	4♓12	16♈22	9°13	9°18	27°59	n.a.	S 2
M 3	22 35 58	6°58'46	2♏ 1	27°33	8°51	26°22	22°55	20°49	18°40	4°10	16°21	9°14	9°15	28° 5	n.a.	M 3
T 4	22 39 55	7°57'58	14°28	26°55	10° 4	27° 4	22°58	20°55	18°42	4° 8	16°20	9°14	9°12	28°12	n.a.	T 4
W 5	22 43 51	8°57'12	26°40	26°27	11°17	27°45	23° 0	21° 1	18°44	4° 7	16°19	9°R14	9° 9	28°19	n.a.	W 5
T 6	22 47 48	9°56'28	8♐42	26° 9	12°30	28°27	23° 3	21° 7	18°46	4° 5	16°19	9°D14	9° 5	28°25	n.a.	T 6
F 7	22 51 44	10°55'46	20°36	26°D 1	13°43	29° 9	23° 6	21°13	18°48	4° 3	16°18	9°14	9° 2	28°32	n.a.	F 7
S 8	22 55 41	11°55'05	2♑29	26° 5	14°56	29°50	23° 9	21°18	18°50	4° 2	16°17	9°14	8°59	28°39	n.a.	S 8
S 9	22 59 38	12°54'27	14°24	26°18	16° 9	0♐32	23°12	21°24	18°51	4° 0	16°16	9°14	8°56	28°46	n.a.	S 9
M10	23 3 34	13°53'50	26°26	26°42	17°22	1°14	23°16	21°30	18°53	3°58	16°15	9°15	8°53	28°52	n.a.	M10
T 11	23 7 31	14°53'16	8♒38	27°16	18°35	1°56	23°19	21°36	18°56	3°57	16°14	9°15	8°50	28°59	n.a.	T 11
W12	23 11 27	15°52'43	21° 3	27°59	19°47	2°39	23°23	21°41	18°58	3°55	16°13	9°16	8°46	29° 6	n.a.	W12
T 13	23 15 24	16°52'13	3♓44	28°50	21° 0	3°21	23°27	21°47	19° 0	3°53	16°12	9°R16	8°43	29°12	n.a.	T 13
F 14	23 19 20	17°51'44	16°40	29°49	22°13	4° 3	23°31	21°52	19° 2	3°52	16°11	9°16	8°40	29°19	n.a.	F 14
S 15	23 23 17	18°51'17	29°53	0♍54	23°26	4°46	23°36	21°57	19° 4	3°50	16°10	9°16	8°37	29°26	n.a.	S 15
S 16	23 27 13	19°50'53	13♈21	2° 6	24°39	5°29	23°40	22° 3	19° 6	3°49	16° 9	9°15	8°34	29°33	n.a.	S 16
M17	23 31 10	20°50'31	27° 3	3°23	25°51	6°11	23°45	22° 8	19° 9	3°47	16° 8	9°13	8°30	29°39	n.a.	M17
T 18	23 35 7	21°50'11	10♉55	4°44	27° 4	6°54	23°50	22°13	19°11	3°45	16° 7	9°12	8°27	29°46	n.a.	T 18
W19	23 39 3	22°49'54	24°56	6° 9	28°17	7°37	23°55	22°18	19°13	3°44	16° 6	9°10	8°24	29°53	n.a.	W19
T 20	23 43 0	23°49'39	9♊ 3	7°38	29°29	8°20	24° 0	22°23	19°16	3°42	16° 5	9° 9	8°21	29°59	n.a.	T 20
F 21	23 46 56	24°49'26	23°14	9° 9	0♏42	9° 3	24° 5	22°28	19°18	3°41	16° 4	9°D 9	8°18	0♑ 6	n.a.	F 21
S 22	23 50 53	25°49'16	7♋26	10°42	1°54	9°46	24°11	22°33	19°21	3°39	16° 3	9° 9	8°15	0°13	n.a.	S 22
S 23	23 54 49	26°49'08	21°37	12°18	3° 7	10°30	24°17	22°37	19°23	3°38	16° 2	9°10	8°11	0°20	n.a.	S 23
M24	23 58 46	27°49'03	5♌45	13°54	4°19	11°13	24°23	22°42	19°26	3°36	16° 1	9°11	8° 8	0°26	n.a.	M24
T 25	0 2 42	28°49'00	19°48	15°32	5°32	11°56	24°29	22°47	19°29	3°35	16° 0	9°12	8° 5	0°33	n.a.	T 25
W26	0 6 39	29°48'58	3♍42	17°11	6°44	12°40	24°35	22°51	19°31	3°33	15°59	9°R13	8° 2	0°40	n.a.	W26
T 27	0 10 36	0♎49'00	17°26	18°50	7°56	13°23	24°41	22°55	19°34	3°32	15°58	9°13	7°59	0°46	n.a.	T 27
F 28	0 14 32	1°49'03	0♎56	20°30	9° 9	14° 7	24°48	23° 0	19°37	3°31	15°57	9°12	7°56	0°53	n.a.	F 28
S 29	0 18 29	2°49'08	14°12	22°10	10°21	14°51	24°55	23° 4	19°39	3°29	15°55	9° 9	7°52	1° 0	n.a.	S 29
S 30	0 22 25	3♎49'15	27♎11	23♍50	11♏33	15♐35	25♐ 1	23♋ 8	19♏42	3♓28	15♈54	9♓ 6	7♓49	1♑ 6	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n47	4s39	2s24	9n58	2s 3	2s25	0n11	21s14	2s 4	23s54	0s23	22n34	0n28	17s25	0n 9	11s25	1s27	8s21	16s 7	8s12	8s 9	28s34		n.a.
S 2	9 25	10 45	3 24	10 35	1 43	2 57	0 8	21 24	2 4	23 54	0 23	22 33	0 28	17 25	0 9	11 26	1 27	8 21	16 7	8 12	8 10	28 34		n.a.
M 3	9 3	16 15	4 13	11 10	1 23	3 29	0 5	21 34	2 4	23 55	0 23	22 32	0 28	17 26	0 9	11 27	1 27	8 22	16 7	8 12	8 11	28 34		n.a.
T 4	8 41	20 56	4 48	11 42	1 3	4 0	0 2	21 44	2 4	23 55	0 23	22 31	0 28	17 26	0 9	11 27	1 27	8 22	16 7	8 12	8 13	28 34		n.a.
W 5	8 18	24 39	5 9	12 10	0 43	4 32	0s 1	21 54	2 4	23 55	0 24	22 31	0 28	17 27	0 9	11 28	1 27	8 23	16 7	8 12	8 14	28 34		n.a.
T 6	7 56	27 13	5 17	12 34	0 24	5 4	0 4	22 3	2 4	23 55	0 24	22 30	0 28	17 27	0 9	11 28	1 27	8 23	16 8	8 12	8 15	28 34		n.a.
F 7	7 33	28 32	5 11	12 54	0 6	5 35	0 8	22 12	2 4	23 55	0 24	22 29	0 28	17 28	0 9	11 29	1 27	8 24	16 8	8 12	8 16	28 33		n.a.
S 8	7 10	28 33	4 51	13 9	0n12	6 7	0 11	22 21	2 3	23 56	0 24	22 28	0 28	17 28	0 9	11 30	1 27	8 24	16 8	8 12	8 17	28 33		n.a.
S 9	6 47	27 13	4 19	13 20	0 28	6 38	0 14	22 30	2 3	23 56	0 24	22 27	0 29	17 29	0 9	11 30	1 27	8 25	16 8	8 12	8 19	28 33		n.a.
M10	6 24	24 38	3 36	13 26	0 43	7 9	0 17	22 39	2 3	23 56	0 24	22 27	0 29	17 29	0 9	11 31	1 27	8 25	16 8	8 12	8 20	28 33		n.a.
T 11	6 1	20 54	2 42	13 27	0 57	7 40	0 20	22 47	2 3	23 56	0 24	22 26	0 29	17 30	0 9	11 32	1 27	8 26	16 9	8 11	8 21	28 32		n.a.
W12	5 38	16 12	1 39	13 23	1 9	8 11	0 23	22 56	2 3	23 57	0 24	22 25	0 29	17 30	0 9	11 32	1 27	8 26	16 9	8 11	8 22	28 32		n.a.
T 13	5 14	10 44	0 31	13 15	1 20	8 42	0 26	23 4	2 2	23 57	0 24	22 24	0 29	17 31	0 9	11 33	1 27	8 27	16 9	8 11	8 24	28 32		n.a.
F 14	4 51	4 42	0n41	13 3	1 29	9 12	0 30	23 12	2 2	23 57	0 24	22 24	0 29	17 32	0 9	11 33	1 27	8 27	16 9	8 11	8 25	28 32		n.a.
S 15	4 27	1n40	1 52	12 47	1 37	9 43	0 33	23 20	2 2	23 57	0 24	22 23	0 29	17 32	0 9	11 34	1 27	8 28	16 9	8 11	8 26	28 31		n.a.
S 16	4 4	8 3	2 58	12 27	1 44	10 13	0 36	23 27	2 2	23 58	0 24	22 22	0 29	17 33	0 9	11 34	1 27	8 28	16 9	8 12	8 27	28 31		n.a.
M17	3 40	14 10	3 54	12 5	1 49	10 42	0 39	23 35	2 1	23 58	0 24	22 21	0 30	17 34	0 9	11 35	1 27	8 29	16 9	8 12	8 28	28 31		n.a.
T 18	3 16	19 40	4 38	11 39	1 54	11 12	0 42	23 42	2 1	23 58	0 24	22 21	0 30	17 34	0 9	11 36	1 27	8 29	16 9	8 13	8 30	28 30		n.a.
W19	2 53	24 10	5 6	11 10	1 57	11 41	0 46	23 49	2 1	23 58	0 24	22 20	0 30	17 35	0 9	11 36	1 27	8 30	16 10	8 13	8 31	28 30		n.a.
T 20	2 29	27 15	5 16	10 39	1 59	12 11	0 49	23 56	2 0	23 59	0 24	22 19	0 30	17 36	0 9	11 37	1 27	8 30	16 10	8 14	8 32	28 30		n.a.
F 21	2 5	28 38	5 6	10 5	2 0	12 39	0 52	24 2	2 0	23 59	0 24	22 19	0 30	17 36	0 9	11 37	1 27	8 31	16 10	8 14	8 33	28 29		n.a.
S 22	1 41	28 8	4 38	9 30	2 1	13 8	0 55	24 8	2 0	23 59	0 24	22 18	0 30	17 37	0 9	11 38	1 27	8 31	16 10	8 14	8 34	28 29		n.a.
S 23	1 17	25 47	3 53	8 53	2 0	13 36	0 58	24 15	1 59	24 0	0 24	22 17	0 30	17 38	0 9	11 38	1 27	8 32	16 10	8 13	8 36	28 29		n.a.
M24	0 53	21 51	2 54	8 14	1 59	14 4	1 2	24 21	1 59	24 0	0 25	22 17	0 31	17 38	0 9	11 39	1 27	8 32	16 10	8 13	8 37	28 28		n.a.
T 25	0 29	16 42	1 45	7 34	1 58	14 32	1 5	24 26	1 59	24 0	0 25	22 16	0 31	17 39	0 9	11 39	1 27	8 33	16 10	8 12	8 38	28 28		n.a.
W26	0 4	10 44	0 30	6 53	1 55	14 59	1 8	24 32	1 58	24 1	0 25	22 15	0 31	17 40	0 9	11 40	1 27	8 33	16 10	8 12	8 39	28 28		n.a.
T 27	0s20	4 20	0s45	6 11	1 53	15 26	1 11	24 37	1 58	24 1	0 25	22 15	0 31	17 41	0 9	11 41	1 27	8 33	16 10	8 12	8 40	28 27		n.a.
F 28	0 44	2s10	1 57	5 29	1 49	15 53	1 14	24 42	1 58	24 1	0 25	22 14	0 31	17 41	0 9	11 41	1 27	8 34	16 10	8 13	8 42	28 27		n.a.
S 29	1 8	8 26	3 0	4 45	1 46	16 19	1 17	24 47	1 57	24 1	0 25	22 14	0 31	17 42	0 9	11 42	1 27	8 34	16 10	8 14	8 43	28 26		n.a.
S 30	1s32	14s12	3s53	4n 1	1n41	16s44	1s20	24s51	1s57	24s 2	0s25	22n13	0n31	17s43	0n 9	11s42	1s27	8s35	16s10	8s15	8s44	28s26		n.a.

Julian Day Number = 1679297.5, Delta T = 03h16m20s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'29, Lahiri = - 5°32'29 Julian Calendar 1 Sept. 116 BCE == Greg. Calendar 29 Aug. 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

OCTOBER 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 26 22	4♎49'24	9♏53	25♍31	12♏46	16♐19	25♐ 8	23♋12	19♏45	3°R26	15°R53	9°R 1	7♓46	1♉13	n.a.	M 1
T 2	0 30 18	5°49'34	22°19	27°11	13°58	17° 3	25°16	23°16	19°48	3♓25	15♈52	8♓57	7°43	1°20	n.a.	T 2
W 3	0 34 15	6°49'47	4♐31	28°51	15°10	17°47	25°23	23°20	19°51	3°24	15°51	8°53	7°40	1°27	n.a.	W 3
T 4	0 38 11	7°50'01	16°32	0♎31	16°22	18°31	25°30	23°24	19°54	3°22	15°50	8°50	7°36	1°33	n.a.	T 4
F 5	0 42 8	8°50'17	28°26	2°10	17°34	19°15	25°38	23°27	19°57	3°21	15°49	8°48	7°33	1°40	n.a.	F 5
S 6	0 46 4	9°50'34	10♉18	3°49	18°46	19°59	25°46	23°31	20° 0	3°20	15°48	8°D47	7°30	1°47	n.a.	S 6
S 7	0 50 1	10°50'53	22°12	5°28	19°58	20°44	25°54	23°34	20° 3	3°19	15°47	8°48	7°27	1°53	n.a.	S 7
M 8	0 53 58	11°51'14	4♒13	7° 7	21°10	21°28	26° 2	23°38	20° 6	3°17	15°45	8°49	7°24	2° 0	n.a.	M 8
T 9	0 57 54	12°51'36	16°26	8°45	22°22	22°12	26°10	23°41	20° 9	3°16	15°44	8°51	7°21	2° 7	n.a.	T 9
W10	1 1 51	13°52'00	28°56	10°23	23°34	22°57	26°18	23°44	20°12	3°15	15°43	8°53	7°17	2°14	n.a.	W10
T 11	1 5 47	14°52'25	11♓45	12° 1	24°45	23°41	26°27	23°47	20°15	3°14	15°42	8°R53	7°14	2°20	n.a.	T 11
F 12	1 9 44	15°52'52	24°56	13°38	25°57	24°26	26°36	23°50	20°18	3°13	15°41	8°52	7°11	2°27	n.a.	F 12
S 13	1 13 40	16°53'20	8♈29	15°15	27° 9	25°10	26°44	23°53	20°21	3°11	15°40	8°49	7° 8	2°34	n.a.	S 13
S 14	1 17 37	17°53'50	22°23	16°51	28°20	25°55	26°53	23°56	20°25	3°10	15°39	8°44	7° 5	2°40	n.a.	S 14
M15	1 21 33	18°54'22	6♉34	18°28	29°32	26°40	27° 2	23°59	20°28	3° 9	15°37	8°38	7° 2	2°47	n.a.	M15
T 16	1 25 30	19°54'55	20°56	20° 3	0♐43	27°25	27°11	24° 1	20°31	3° 8	15°36	8°31	6°58	2°54	n.a.	T 16
W17	1 29 27	20°55'31	5♊24	21°39	1°55	28° 9	27°21	24° 4	20°34	3° 7	15°35	8°24	6°55	3° 1	n.a.	W17
T 18	1 33 23	21°56'08	19°51	23°14	3° 6	28°54	27°30	24° 6	20°38	3° 6	15°34	8°19	6°52	3° 7	n.a.	T 18
F 19	1 37 20	22°56'47	4♋14	24°49	4°17	29°39	27°40	24° 8	20°41	3° 5	15°33	8°16	6°49	3°14	n.a.	F 19
S 20	1 41 16	23°57'28	18°27	26°24	5°28	0♉24	27°49	24°11	20°44	3° 4	15°32	8°D14	6°46	3°21	n.a.	S 20
S 21	1 45 13	24°58'11	2♌30	27°59	6°40	1° 9	27°59	24°13	20°48	3° 4	15°31	8°14	6°42	3°27	n.a.	S 21
M22	1 49 9	25°58'55	16°21	29°33	7°51	1°54	28° 9	24°15	20°51	3° 3	15°30	8°15	6°39	3°34	n.a.	M22
T 23	1 53 6	26°59'41	0♍ 1	1♏ 7	9° 2	2°39	28°19	24°16	20°55	3° 2	15°28	8°16	6°36	3°41	n.a.	T 23
W24	1 57 2	28° 0'29	13°30	2°41	10°12	3°24	28°29	24°18	20°58	3° 1	15°27	8°R16	6°33	3°48	n.a.	W24
T 25	2 0 59	29° 1'19	26°47	4°15	11°23	4° 9	28°39	24°20	21° 1	3° 0	15°26	8°15	6°30	3°54	n.a.	T 25
F 26	2 4 56	0♏ 2'10	9♎54	5°49	12°34	4°54	28°50	24°21	21° 5	3° 0	15°25	8°10	6°27	4° 1	n.a.	F 26
S 27	2 8 52	1° 3'02	22°49	7°22	13°45	5°39	29° 0	24°23	21° 8	2°59	15°24	8° 4	6°23	4° 8	n.a.	S 27
S 28	2 12 49	2° 3'56	5♏33	8°56	14°55	6°25	29°11	24°24	21°12	2°58	15°23	7°55	6°20	4°14	n.a.	S 28
M29	2 16 45	3° 4'51	18° 4	10°29	16° 6	7°10	29°22	24°25	21°15	2°58	15°22	7°44	6°17	4°21	n.a.	M29
T 30	2 20 42	4° 5'47	0♐23	12° 2	17°16	7°55	29°32	24°26	21°19	2°57	15°21	7°33	6°14	4°28	n.a.	T 30
W31	2 24 38	5♏ 6'45	12♐31	13♏35	18♐26	8♉40	29♐43	24♋27	21♏23	2♓56	15♈20	7♓22	6♓11	4♉34	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	1s56	19s15	4s34	3n17	1n37	17s10	1s23	24s56	1s56	24s 2	0s25	22n13	0n32	17s44	0n 9	11s43	1s27	8s35	16s11	8s17	8s45	28s26			n.a.
T 2	2 20	23 23	5 0	2 32	1 32	17 35	1 26	25 0	1 56	24 2	0 25	22 12	0 32	17 45	0 9	11 43	1 27	8 36	16 11	8 18	8 46	28 25			n.a.
W 3	2 44	26 23	5 12	1 47	1 27	17 59	1 29	25 3	1 55	24 3	0 25	22 12	0 32	17 45	0 9	11 43	1 27	8 36	16 11	8 20	8 48	28 25			n.a.
T 4	3 9	28 10	5 10	1 2	1 22	18 23	1 32	25 7	1 55	24 3	0 25	22 11	0 32	17 46	0 9	11 44	1 27	8 37	16 11	8 21	8 49	28 24			n.a.
F 5	3 33	28 37	4 55	0 17	1 16	18 47	1 35	25 10	1 55	24 3	0 25	22 11	0 32	17 47	0 9	11 44	1 27	8 37	16 11	8 22	8 50	28 24			n.a.
S 6	3 57	27 45	4 27	0s28	1 10	19 10	1 38	25 13	1 54	24 4	0 25	22 10	0 32	17 48	0 9	11 45	1 27	8 38	16 11	8 22	8 51	28 23			n.a.
S 7	4 20	25 36	3 48	1 13	1 4	19 33	1 41	25 16	1 54	24 4	0 25	22 10	0 32	17 49	0 9	11 45	1 27	8 38	16 11	8 22	8 52	28 23			n.a.
M 8	4 44	22 18	2 58	1 58	0 58	19 55	1 43	25 19	1 53	24 4	0 25	22 9	0 33	17 50	0 9	11 46	1 27	8 38	16 11	8 21	8 53	28 23			n.a.
T 9	5 8	17 59	1 59	2 43	0 52	20 17	1 46	25 21	1 53	24 5	0 25	22 9	0 33	17 50	0 9	11 46	1 27	8 39	16 11	8 21	8 55	28 22			n.a.
W10	5 32	12 49	0 54	3 27	0 46	20 38	1 49	25 23	1 52	24 5	0 25	22 8	0 33	17 51	0 9	11 47	1 27	8 39	16 11	8 20	8 56	28 22			n.a.
T 11	5 55	7 0	0n16	4 12	0 40	20 58	1 51	25 25	1 52	24 5	0 25	22 8	0 33	17 52	0 9	11 47	1 27	8 40	16 11	8 20	8 57	28 21			n.a.
F 12	6 19	0 43	1 26	4 56	0 33	21 18	1 54	25 26	1 51	24 5	0 25	22 8	0 33	17 53	0 9	11 47	1 27	8 40	16 11	8 20	8 58	28 21			n.a.
S 13	6 43	5n45	2 34	5 40	0 27	21 38	1 57	25 28	1 50	24 6	0 25	22 7	0 33	17 54	0 9	11 48	1 27	8 40	16 11	8 21	8 59	28 20			n.a.
S 14	7 6	12 7	3 34	6 23	0 20	21 57	1 59	25 29	1 50	24 6	0 25	22 7	0 34	17 55	0 9	11 48	1 27	8 41	16 11	8 23	9 1	28 20			n.a.
M15	7 29	17 58	4 22	7 6	0 13	22 15	2 1	25 29	1 49	24 6	0 25	22 7	0 34	17 56	0 9	11 48	1 27	8 41	16 11	8 26	9 2	28 19			n.a.
T 16	7 52	22 55	4 54	7 49	0 7	22 33	2 4	25 30	1 49	24 6	0 26	22 6	0 34	17 56	0 9	11 49	1 27	8 42	16 11	8 28	9 3	28 18			n.a.
W17	8 15	26 30	5 8	8 32	0 0	22 50	2 6	25 30	1 48	24 7	0 26	22 6	0 34	17 57	0 9	11 49	1 27	8 42	16 10	8 31	9 4	28 18			n.a.
T 18	8 38	28 21	5 2	9 14	0s 6	23 7	2 8	25 30	1 48	24 7	0 26	22 6	0 34	17 58	0 9	11 49	1 27	8 42	16 10	8 33	9 5	28 17			n.a.
F 19	9 1	28 16	4 38	9 55	0 13	23 23	2 10	25 30	1 47	24 7	0 26	22 5	0 34	17 59	0 9	11 50	1 27	8 43	16 10	8 34	9 7	28 17			n.a.
S 20	9 24	26 19	3 56	10 36	0 19	23 38	2 12	25 29	1 47	24 7	0 26	22 5	0 34	18 0	0 9	11 50	1 27	8 43	16 10	8 35	9 8	28 16			n.a.
S 21	9 46	22 45	3 1	11 17	0 26	23 52	2 14	25 28	1 46	24 8	0 26	22 5	0 35	18 1	0 9	11 50	1 27	8 43	16 10	8 35	9 9	28 16			n.a.
M22	10 9	17 57	1 55	11 57	0 32	24 6	2 16	25 27	1 45	24 8	0 26	22 5	0 35	18 2	0 9	11 51	1 26	8 44	16 10	8 34	9 10	28 15			n.a.
T 23	10 31	12 17	0 44	12 36	0 39	24 20	2 18	25 26	1 45	24 8	0 26	22 5	0 35	18 3	0 9	11 51	1 26	8 44	16 10	8 34	9 11	28 14			n.a.
W24	10 53	6 8	0s28	13 15	0 45	24 32	2 20	25 24	1 44	24 8	0 26	22 5	0 35	18 4	0 9	11 51	1 26	8 45	16 10	8 34	9 13	28 14			n.a.
T 25	11 15	0s12	1 38	13 53	0 51	24 44	2 22	25 22	1 43	24 8	0 26	22 4	0 35	18 5	0 9	11 51	1 26	8 45	16 10	8 34	9 14	28 13			n.a.
F 26	11 37	6 26	2 41	14 30	0 57	24 56	2 23	25 20	1 43	24 8	0 26	22 4	0 35	18 6	0 9	11 52	1 26	8 45	16 10	8 36	9 15	28 13			n.a.
S 27	11 58	12 18	3 35	15 7	1 3	25 6	2 25	25 17	1 42	24 9	0 26	22 4	0 36	18 7	0 9	11 52	1 26	8 45	16 10	8 38	9 16	28 12			n.a.
S 28	12 20	17 33	4 18	15 43	1 9	25 16	2 26	25 15	1 42	24 9	0 26	22 4	0 36	18 8	0 9	11 52	1 26	8 46	16 10	8 42	9 17	28 11			n.a.
M29	12 41	21 59	4 47	16 19	1 15	25 25	2 27	25 12	1 41	24 9	0 26	22 4	0 36	18 8	0 9	11 52	1 26	8 46	16 9	8 46	9 18	28 11			n.a.
T 30	13 2	25 22	5 2	16 53	1 20	25 34	2 29	25 8	1 40	24 9	0 26	22 4	0 36	18 9	0 9	11 53	1 26	8 46	16 9	8 50	9 20	28 10			n.a.
W31	13s22	27s33	5s 3	17s27	1s25	25s41	2s30	25s 5	1s40	24s 9	0s26	22n 4	0n36	18s10	0n 9	11s53	1s26	8s47	16s 9	8s54	9s21	28s 9			n.a.

Julian Day Number = 1679327.5, Delta T = 03h16m20s
Ecliptic obliquity = 23°42'42, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'25, Lahiri = - 5°32'25 Julian Calendar 1 Oct. 116 BCE == Greg. Calendar 28 Sept. 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

NOVEMBER 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 28 35	6♏ 7'43	24♐30	15♏ 8	19♐37	9♑26	29♐54	24♋28	21♏26	2°R56	15°R19	7°R13	6♓ 7	4♑41	n.a.	T 1
F 2	2 32 31	7° 8'43	6♑22	16°41	20°47	10°11	0♑ 5	24°29	21°30	2♓55	15♈18	7♓ 6	6° 4	4°48	n.a.	F 2
S 3	2 36 28	8° 9'43	18°12	18°14	21°57	10°57	0°17	24°29	21°33	2°55	15°17	7° 1	6° 1	4°55	n.a.	S 3
S 4	2 40 25	9°10'44	0♒ 3	19°47	23° 7	11°42	0°28	24°30	21°37	2°54	15°16	6°59	5°58	5° 1	n.a.	S 4
M 5	2 44 21	10°11'46	12° 1	21°19	24°16	12°27	0°39	24°30	21°40	2°54	15°15	6°D58	5°55	5° 8	n.a.	M 5
T 6	2 48 18	11°12'49	24°10	22°52	25°26	13°13	0°51	24°30	21°44	2°54	15°14	6°59	5°52	5°15	n.a.	T 6
W 7	2 52 14	12°13'52	6♓37	24°24	26°35	13°58	1° 2	24°31	21°48	2°53	15°13	6°R59	5°48	5°21	n.a.	W 7
T 8	2 56 11	13°14'56	19°27	25°56	27°45	14°44	1°14	24°R31	21°51	2°53	15°12	6°58	5°45	5°28	n.a.	T 8
F 9	3 0 7	14°16'00	2♈42	27°28	28°54	15°29	1°26	24°31	21°55	2°53	15°11	6°56	5°42	5°35	n.a.	F 9
S 10	3 4 4	15°17'06	16°24	29° 0	0♑ 3	16°15	1°38	24°30	21°59	2°52	15°10	6°50	5°39	5°42	n.a.	S 10
S 11	3 8 0	16°18'12	0♉34	0♐31	1°12	17° 0	1°50	24°30	22° 2	2°52	15° 9	6°42	5°36	5°48	n.a.	S 11
M12	3 11 57	17°19'18	15° 7	2° 2	2°21	17°45	2° 2	24°30	22° 6	2°52	15° 8	6°32	5°33	5°55	n.a.	M12
T 13	3 15 54	18°20'26	29°56	3°33	3°30	18°31	2°14	24°29	22°10	2°52	15° 7	6°21	5°29	6° 2	n.a.	T 13
W14	3 19 50	19°21'34	14♊52	5° 3	4°38	19°16	2°26	24°29	22°13	2°52	15° 6	6°10	5°26	6° 8	n.a.	W14
T 15	3 23 47	20°22'43	29°47	6°33	5°46	20° 2	2°38	24°28	22°17	2°52	15° 5	6° 0	5°23	6°15	n.a.	T 15
F 16	3 27 43	21°23'53	14♋32	8° 2	6°55	20°48	2°51	24°27	22°21	2°51	15° 4	5°53	5°20	6°22	n.a.	F 16
S 17	3 31 40	22°25'04	29° 0	9°30	8° 3	21°33	3° 3	24°26	22°24	2°D51	15° 3	5°49	5°17	6°28	n.a.	S 17
S 18	3 35 36	23°26'16	13♌10	10°57	9°10	22°19	3°16	24°25	22°28	2°51	15° 2	5°47	5°13	6°35	n.a.	S 18
M19	3 39 33	24°27'28	26°59	12°22	10°18	23° 4	3°28	24°24	22°32	2°52	15° 2	5°D46	5°10	6°42	n.a.	M19
T 20	3 43 30	25°28'42	10♍29	13°46	11°26	23°50	3°41	24°23	22°35	2°52	15° 1	5°R46	5° 7	6°49	n.a.	T 20
W21	3 47 26	26°29'55	23°42	15° 9	12°33	24°35	3°53	24°21	22°39	2°52	15° 0	5°45	5° 4	6°55	n.a.	W21
T 22	3 51 23	27°31'10	6♎41	16°29	13°40	25°21	4° 6	24°20	22°43	2°52	14°59	5°42	5° 1	7° 2	n.a.	T 22
F 23	3 55 19	28°32'25	19°27	17°47	14°47	26° 6	4°19	24°18	22°46	2°52	14°58	5°36	4°58	7° 9	n.a.	F 23
S 24	3 59 16	29°33'41	2♏ 2	19° 2	15°54	26°52	4°32	24°16	22°50	2°52	14°58	5°27	4°54	7°15	n.a.	S 24
S 25	4 3 12	0♐34'57	14°28	20°13	17° 0	27°37	4°45	24°15	22°53	2°53	14°57	5°14	4°51	7°22	n.a.	S 25
M26	4 7 9	1°36'14	26°46	21°21	18° 6	28°23	4°58	24°13	22°57	2°53	14°56	5° 0	4°48	7°29	n.a.	M26
T 27	4 11 5	2°37'30	8♐55	22°24	19°12	29° 8	5°11	24°11	23° 1	2°53	14°55	4°45	4°45	7°36	n.a.	T 27
W28	4 15 2	3°38'47	20°56	23°22	20°18	29°54	5°24	24° 8	23° 4	2°54	14°55	4°30	4°42	7°42	n.a.	W28
T 29	4 18 59	4°40'04	2♑51	24°13	21°24	0♒39	5°37	24° 6	23° 8	2°54	14°54	4°17	4°39	7°49	n.a.	T 29
F 30	4 22 55	5♐41'21	14♑41	24♐58	22♑29	1♒25	5♑51	24♋ 4	23♏12	2♓54	14♈53	4♓ 6	4♓35	7♑56	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s43	28s26	4s51	18s 0	1s31	25s48	2s31	25s 1	1s39	24s 9	0s26	22n 4	0n36	18s11	0n 9	11s53	1s26	8s47	16s 9	8s58	9s22	28s 9		n.a.
F 2	14 3	27 59	4 26	18 32	1 36	25 55	2 32	24 57	1 38	24 9	0 26	22 4	0 37	18 12	0 9	11 53	1 26	8 47	16 9	9 0	9 23	28 8		n.a.
S 3	14 23	26 15	3 50	19 4	1 40	26 0	2 33	24 52	1 38	24 9	0 26	22 4	0 37	18 13	0 9	11 53	1 26	8 47	16 9	9 2	9 24	28 7		n.a.
S 4	14 43	23 21	3 4	19 34	1 45	26 5	2 33	24 48	1 37	24 9	0 26	22 4	0 37	18 14	0 9	11 53	1 26	8 48	16 9	9 3	9 26	28 7		n.a.
M 5	15 3	19 27	2 9	20 3	1 49	26 9	2 34	24 43	1 36	24 9	0 27	22 4	0 37	18 15	0 9	11 53	1 26	8 48	16 8	9 3	9 27	28 6		n.a.
T 6	15 22	14 41	1 8	20 32	1 54	26 12	2 34	24 38	1 35	24 9	0 27	22 4	0 37	18 16	0 9	11 54	1 26	8 48	16 8	9 3	9 28	28 5		n.a.
W 7	15 41	9 13	0 2	20 59	1 57	26 15	2 35	24 32	1 35	24 9	0 27	22 5	0 37	18 17	0 9	11 54	1 26	8 48	16 8	9 3	9 29	28 5		n.a.
T 8	16 0	3 13	1n 6	21 25	2 1	26 17	2 35	24 27	1 34	24 9	0 27	22 5	0 38	18 18	0 9	11 54	1 26	8 49	16 8	9 3	9 30	28 4		n.a.
F 9	16 18	3n 6	2 12	21 50	2 4	26 18	2 35	24 21	1 33	24 9	0 27	22 5	0 38	18 19	0 8	11 54	1 26	8 49	16 8	9 4	9 31	28 3		n.a.
S 10	16 36	9 29	3 13	22 14	2 7	26 18	2 35	24 15	1 33	24 9	0 27	22 5	0 38	18 20	0 8	11 54	1 26	8 49	16 7	9 6	9 33	28 2		n.a.
S 11	16 54	15 36	4 4	22 36	2 10	26 18	2 35	24 8	1 32	24 9	0 27	22 5	0 38	18 21	0 8	11 54	1 26	8 49	16 7	9 9	9 34	28 2		n.a.
M12	17 12	21 1	4 41	22 58	2 12	26 17	2 35	24 1	1 31	24 9	0 27	22 5	0 38	18 22	0 8	11 54	1 26	8 49	16 7	9 13	9 35	28 1		n.a.
T 13	17 29	25 14	4 59	23 17	2 14	26 15	2 35	23 54	1 30	24 8	0 27	22 6	0 38	18 23	0 8	11 54	1 26	8 49	16 7	9 17	9 36	28 0		n.a.
W14	17 46	27 46	4 58	23 36	2 15	26 12	2 34	23 47	1 30	24 8	0 27	22 6	0 39	18 24	0 8	11 54	1 26	8 50	16 7	9 21	9 37	27 59		n.a.
T 15	18 3	28 19	4 36	23 53	2 16	26 9	2 34	23 40	1 29	24 8	0 27	22 6	0 39	18 25	0 8	11 54	1 26	8 50	16 6	9 25	9 39	27 59		n.a.
F 16	18 19	26 49	3 56	24 8	2 16	26 5	2 33	23 32	1 28	24 8	0 27	22 7	0 39	18 26	0 8	11 54	1 26	8 50	16 6	9 27	9 40	27 58		n.a.
S 17	18 35	23 33	3 1	24 22	2 16	26 0	2 32	23 24	1 27	24 8	0 27	22 7	0 39	18 27	0 8	11 54	1 26	8 50	16 6	9 29	9 41	27 57		n.a.
S 18	18 51	18 55	1 57	24 35	2 16	25 55	2 32	23 16	1 27	24 7	0 27	22 7	0 39	18 28	0 8	11 54	1 25	8 50	16 6	9 30	9 42	27 56		n.a.
M19	19 6	13 23	0 46	24 45	2 14	25 48	2 31	23 8	1 26	24 7	0 27	22 8	0 39	18 29	0 8	11 54	1 25	8 50	16 6	9 30	9 43	27 55		n.a.
T 20	19 21	7 20	0s25	24 54	2 12	25 42	2 29	22 59	1 25	24 7	0 27	22 8	0 40	18 29	0 8	11 54	1 25	8 50	16 5	9 30	9 44	27 55		n.a.
W21	19 36	1 6	1 33	25 1	2 10	25 34	2 28	22 50	1 24	24 7	0 27	22 8	0 40	18 30	0 8	11 54	1 25	8 50	16 5	9 30	9 46	27 54		n.a.
T 22	19 50	5s 3	2 35	25 7	2 6	25 26	2 27	22 41	1 24	24 6	0 27	22 9	0 40	18 31	0 8	11 54	1 25	8 50	16 5	9 31	9 47	27 53		n.a.
F 23	20 4	10 54	3 29	25 10	2 2	25 17	2 25	22 31	1 23	24 6	0 28	22 9	0 40	18 32	0 8	11 53	1 25	8 51	16 5	9 34	9 48	27 52		n.a.
S 24	20 17	16 14	4 11	25 12	1 57	25 7	2 23	22 22	1 22	24 6	0 28	22 10	0 40	18 33	0 8	11 53	1 25	8 51	16 4	9 37	9 49	27 51		n.a.
S 25	20 30	20 49	4 40	25 11	1 51	24 57	2 21	22 12	1 21	24 5	0 28	22 10	0 40	18 34	0 8	11 53	1 25	8 51	16 4	9 42	9 50	27 50		n.a.
M26	20 43	24 27	4 56	25 9	1 44	24 46	2 19	22 2	1 21	24 5	0 28	22 11	0 41	18 35	0 8	11 53	1 25	8 51	16 4	9 47	9 51	27 49		n.a.
T 27	20 55	26 57	4 58	25 5	1 35	24 35	2 17	21 52	1 20	24 4	0 28	22 11	0 41	18 36	0 8	11 53	1 25	8 51	16 4	9 53	9 53	27 49		n.a.
W28	21 7	28 10	4 47	24 59	1 26	24 23	2 15	21 41	1 19	24 4	0 28	22 12	0 41	18 37	0 8	11 53	1 25	8 51	16 3	9 58	9 54	27 48		n.a.
T 29	21 19	28 4	4 23	24 51	1 16	24 10	2 12	21 31	1 18	24 3	0 28	22 12	0 41	18 38	0 8	11 52	1 25	8 51	16 3	10 3	9 55	27 47		n.a.
F 30	21s30	26s40	3s48	24s41	1s 4	23s57	2s10	21s20	1s17	24s 3	0s28	22n13	0n41	18s39	0n 8	11s52	1s25	8s51	16s 3	10s 7	9s56	27s46		n.a.

Julian Day Number = 1679358.5, Delta T = 03h16m19s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'21, Lahiri = - 5°32'20 Julian Calendar 1 Nov. 116 BCE == Greg. Calendar 29 Oct. 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 116 BCE
geocentric

DECEMBER 116 BCE (-115) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 26 52	6♐42'38	26♑29	25♐34	23♑34	2♒10	6♑ 4	24°R 1	23♏15	2♓55	14°R53	3°R59	4♓32	8♑ 2	n.a.	S 1
S 2	4 30 48	7°43'55	8♒19	26° 2	24°38	2°56	6°17	23♋59	23°19	2°55	14♈52	3♓54	4°29	8° 9	n.a.	S 2
M 3	4 34 45	8°45'11	20°14	26°21	25°43	3°41	6°31	23°56	23°22	2°56	14°51	3°52	4°26	8°16	n.a.	M 3
T 4	4 38 41	9°46'27	2♓20	26°R29	26°47	4°27	6°44	23°54	23°26	2°57	14°51	3°51	4°23	8°22	n.a.	T 4
W 5	4 42 38	10°47'43	14°42	26°25	27°51	5°12	6°58	23°51	23°29	2°57	14°50	3°51	4°19	8°29	n.a.	W 5
T 6	4 46 35	11°48'58	27°25	26°10	28°54	5°58	7°11	23°48	23°33	2°58	14°50	3°51	4°16	8°36	n.a.	T 6
F 7	4 50 31	12°50'12	10♈34	25°43	29°57	6°43	7°25	23°45	23°36	2°59	14°49	3°48	4°13	8°43	n.a.	F 7
S 8	4 54 28	13°51'26	24°14	25° 5	1♒ 0	7°28	7°39	23°42	23°40	2°59	14°49	3°43	4°10	8°49	n.a.	S 8
S 9	4 58 24	14°52'40	8♉23	24°15	2° 2	8°14	7°52	23°39	23°43	3° 0	14°48	3°35	4° 7	8°56	n.a.	S 9
M10	5 2 21	15°53'53	23° 1	23°16	3° 4	8°59	8° 6	23°35	23°47	3° 1	14°48	3°25	4° 4	9° 3	n.a.	M10
T 11	5 6 17	16°55'06	8♊ 2	22° 8	4° 6	9°45	8°20	23°32	23°50	3° 2	14°47	3°13	4° 0	9° 9	n.a.	T 11
W12	5 10 14	17°56'18	23°16	20°53	5° 7	10°30	8°34	23°29	23°54	3° 2	14°47	3° 2	3°57	9°16	n.a.	W12
T 13	5 14 10	18°57'30	8♋32	19°35	6° 8	11°15	8°48	23°25	23°57	3° 3	14°46	2°52	3°54	9°23	n.a.	T 13
F 14	5 18 7	19°58'42	23°39	18°16	7° 8	12° 0	9° 1	23°21	24° 1	3° 4	14°46	2°45	3°51	9°29	n.a.	F 14
S 15	5 22 4	20°59'53	8♌28	16°57	8° 8	12°46	9°15	23°18	24° 4	3° 5	14°46	2°40	3°48	9°36	n.a.	S 15
S 16	5 26 0	22° 1'04	22°54	15°42	9° 8	13°31	9°29	23°14	24° 7	3° 6	14°45	2°38	3°45	9°43	n.a.	S 16
M17	5 29 57	23° 2'14	6♍54	14°33	10° 7	14°16	9°43	23°10	24°11	3° 7	14°45	2°D38	3°41	9°50	n.a.	M17
T 18	5 33 53	24° 3'24	20°29	13°30	11° 5	15° 1	9°57	23° 6	24°14	3° 8	14°44	2°R38	3°38	9°56	n.a.	T 18
W19	5 37 50	25° 4'34	3♎41	12°36	12° 3	15°47	10°11	23° 2	24°17	3° 9	14°44	2°38	3°35	10° 3	n.a.	W19
T 20	5 41 46	26° 5'43	16°32	11°51	13° 1	16°32	10°25	22°58	24°21	3°10	14°44	2°36	3°32	10°10	n.a.	T 20
F 21	5 45 43	27° 6'52	29° 8	11°15	13°57	17°17	10°40	22°54	24°24	3°12	14°44	2°31	3°29	10°16	n.a.	F 21
S 22	5 49 39	28° 8'00	11♏31	10°49	14°54	18° 2	10°54	22°50	24°27	3°13	14°43	2°24	3°25	10°23	n.a.	S 22
S 23	5 53 36	29° 9'08	23°44	10°31	15°49	18°47	11° 8	22°46	24°30	3°14	14°43	2°14	3°22	10°30	n.a.	S 23
M24	5 57 33	0♑10'15	5♐49	10°23	16°45	19°32	11°22	22°42	24°33	3°15	14°43	2° 2	3°19	10°36	n.a.	M24
T 25	6 1 29	1°11'22	17°48	10°D23	17°39	20°17	11°36	22°37	24°37	3°16	14°43	1°50	3°16	10°43	n.a.	T 25
W26	6 5 26	2°12'27	29°42	10°31	18°33	21° 2	11°50	22°33	24°40	3°18	14°43	1°38	3°13	10°50	n.a.	W26
T 27	6 9 22	3°13'32	11♑33	10°46	19°26	21°47	12° 5	22°28	24°43	3°19	14°43	1°27	3°10	10°56	n.a.	T 27
F 28	6 13 19	4°14'35	23°23	11° 7	20°18	22°32	12°19	22°24	24°46	3°20	14°42	1°18	3° 6	11° 3	n.a.	F 28
S 29	6 17 15	5°15'37	5♒12	11°35	21°10	23°17	12°33	22°19	24°49	3°22	14°42	1°11	3° 3	11°10	n.a.	S 29
S 30	6 21 12	6°16'39	17° 4	12° 8	22° 1	24° 2	12°47	22°15	24°52	3°23	14°42	1° 8	3° 0	11°17	n.a.	S 30
M31	6 25 9	7♑17'38	29♒ 2	12♐47	22♒51	24♒47	13♑ 2	22♋10	24♏55	3♓25	14♈42	1°D 7	2♓57	11♑23	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s41	24s 6	3s 4	24s29	0s51	23s43	2s 7	21s 9	1s17	24s 2	0s28	22n14	0n41	18s40	0n 8	11s52	1s25	8s51	16s 2	10s10	9s57	27s45		n.a.
S 2	21 51	20 30	2 11	24 16	0 37	23 28	2 4	20 57	1 16	24 2	0 28	22 14	0 41	18 41	0 8	11 52	1 25	8 51	16 2	10 11	9 59	27 44		n.a.
M 3	22 1	16 2	1 11	24 1	0 21	23 13	2 1	20 46	1 15	24 1	0 28	22 15	0 42	18 42	0 8	11 52	1 25	8 51	16 2	10 12	10 0	27 43		n.a.
T 4	22 10	10 53	0 8	23 45	0 5	22 58	1 58	20 34	1 14	24 0	0 28	22 15	0 42	18 43	0 8	11 51	1 25	8 51	16 2	10 12	10 1	27 42		n.a.
W 5	22 19	5 13	0n57	23 27	0n13	22 42	1 54	20 22	1 13	24 0	0 28	22 16	0 42	18 43	0 8	11 51	1 25	8 51	16 1	10 12	10 2	27 41		n.a.
T 6	22 28	0n49	2 1	23 8	0 31	22 25	1 51	20 10	1 13	23 59	0 28	22 17	0 42	18 44	0 8	11 51	1 25	8 50	16 1	10 13	10 3	27 40		n.a.
F 7	22 36	7 0	3 1	22 48	0 51	22 8	1 47	19 58	1 12	23 58	0 28	22 17	0 42	18 45	0 8	11 51	1 25	8 50	16 1	10 14	10 4	27 39		n.a.
S 8	22 43	13 6	3 53	22 27	1 10	21 50	1 43	19 45	1 11	23 58	0 28	22 18	0 42	18 46	0 8	11 50	1 25	8 50	16 0	10 16	10 6	27 38		n.a.
S 9	22 51	18 45	4 33	22 5	1 30	21 32	1 39	19 33	1 10	23 57	0 29	22 19	0 43	18 47	0 8	11 50	1 25	8 50	16 0	10 18	10 7	27 37		n.a.
M10	22 57	23 30	4 56	21 43	1 49	21 14	1 35	19 20	1 9	23 56	0 29	22 20	0 43	18 48	0 8	11 50	1 25	8 50	16 0	10 22	10 8	27 36		n.a.
T 11	23 4	26 49	5 0	21 21	2 8	20 55	1 31	19 7	1 9	23 55	0 29	22 20	0 43	18 49	0 8	11 49	1 25	8 50	15 59	10 26	10 9	27 35		n.a.
W12	23 9	28 14	4 43	20 59	2 25	20 36	1 26	18 54	1 8	23 55	0 29	22 21	0 43	18 50	0 8	11 49	1 25	8 50	15 59	10 30	10 10	27 34		n.a.
T 13	23 15	27 31	4 5	20 38	2 40	20 16	1 21	18 40	1 7	23 54	0 29	22 22	0 43	18 50	0 8	11 49	1 24	8 50	15 59	10 34	10 11	27 33		n.a.
F 14	23 20	24 45	3 11	20 18	2 54	19 56	1 17	18 27	1 6	23 53	0 29	22 23	0 43	18 51	0 8	11 48	1 24	8 50	15 58	10 37	10 13	27 32		n.a.
S 15	23 24	20 21	2 4	20 0	3 5	19 35	1 12	18 13	1 5	23 52	0 29	22 23	0 44	18 52	0 8	11 48	1 24	8 49	15 58	10 38	10 14	27 31		n.a.
S 16	23 28	14 51	0 51	19 43	3 14	19 15	1 6	17 59	1 5	23 51	0 29	22 24	0 44	18 53	0 8	11 47	1 24	8 49	15 58	10 39	10 15	27 30		n.a.
M17	23 32	8 43	0s23	19 30	3 20	18 53	1 1	17 45	1 4	23 50	0 29	22 25	0 44	18 54	0 8	11 47	1 24	8 49	15 57	10 39	10 16	27 29		n.a.
T 18	23 35	2 23	1 33	19 19	3 24	18 32	0 55	17 31	1 3	23 49	0 29	22 26	0 44	18 55	0 8	11 47	1 24	8 49	15 57	10 39	10 17	27 28		n.a.
W19	23 37	3s52	2 37	19 10	3 25	18 10	0 50	17 17	1 2	23 48	0 29	22 27	0 44	18 56	0 8	11 46	1 24	8 49	15 57	10 39	10 18	27 27		n.a.
T 20	23 39	9 49	3 31	19 5	3 25	17 48	0 44	17 2	1 1	23 47	0 29	22 27	0 44	18 56	0 8	11 46	1 24	8 49	15 56	10 40	10 20	27 26		n.a.
F 21	23 41	15 14	4 14	19 2	3 22	17 26	0 38	16 47	1 0	23 46	0 29	22 28	0 44	18 57	0 8	11 45	1 24	8 48	15 56	10 42	10 21	27 25		n.a.
S 22	23 42	19 56	4 43	19 3	3 19	17 3	0 32	16 33	1 0	23 45	0 30	22 29	0 45	18 58	0 8	11 45	1 24	8 48	15 56	10 44	10 22	27 24		n.a.
S 23	23 43	23 45	4 59	19 5	3 13	16 40	0 25	16 18	0 59	23 44	0 30	22 30	0 45	18 59	0 8	11 44	1 24	8 48	15 55	10 48	10 23	27 23		n.a.
M24	23 43	26 28	5 2	19 10	3 7	16 17	0 18	16 3	0 58	23 43	0 30	22 31	0 45	19 0	0 8	11 44	1 24	8 48	15 55	10 52	10 24	27 22		n.a.
T 25	23 42	27 59	4 51	19 18	3 0	15 54	0 12	15 47	0 57	23 42	0 30	22 32	0 45	19 0	0 8	11 43	1 24	8 47	15 55	10 57	10 25	27 21		n.a.
W26	23 42	28 10	4 28	19 27	2 52	15 31	0 5	15 32	0 56	23 40	0 30	22 33	0 45	19 1	0 8	11 43	1 24	8 47	15 54	11 1	10 26	27 20		n.a.
T 27	23 40	27 4	3 53	19 37	2 43	15 7	0n 2	15 17	0 56	23 39	0 30	22 33	0 45	19 2	0 8	11 42	1 24	8 47	15 54	11 5	10 28	27 19		n.a.
F 28	23 39	24 44	3 8	19 49	2 34	14 44	0 10	15 1	0 55	23 38	0 30	22 34	0 45	19 3	0 8	11 42	1 24	8 47	15 54	11 8	10 29	27 18		n.a.
S 29	23 36	21 21	2 14	20 3	2 24	14 20	0 17	14 46	0 54	23 37	0 30	22 35	0 46	19 3	0 8	11 41	1 24	8 46	15 53	11 10	10 30	27 16		n.a.
S 30	23 34	17 5	1 15	20 17	2 15	13 56	0 25	14 30	0 53	23 35	0 30	22 36	0 46	19 4	0 8	11 41	1 24	8 46	15 53	11 12	10 31	27 15		n.a.
M31	23s30	12s 7	0s11	20s31	2n 5	13s32	0n33	14s14	0s52	23s34	0s30	22n37	0n46	19s 5	0n 8	11s40	1s24	8s46	15s53	11s12	10s32	27s14		n.a.

Julian Day Number = 1679388.5, Delta T = 03h16m18s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'17, Lahiri = - 5°32'16 Julian Calendar 1 Dec. 116 BCE == Greg. Calendar 28 Nov. 116 BCE

The year -115 astronomical counting style corresponds to year 116 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

JANUARY 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 29 5	8♉18'37	11♓ 9	13♐30	23♒40	25♒32	13♉16	22°R 6	24♏58	3♓26	14°D42	1♓ 7	2♓54	11♉30	n.a.	T 1
W 2	6 33 2	9°19'34	23°30	14°17	24°29	26°16	13°30	22♋ 1	25° 1	3°27	14♈42	1° 8	2°51	11°37	n.a.	W 2
T 3	6 36 58	10°20'29	6♈10	15° 7	25°16	27° 1	13°45	21°56	25° 3	3°29	14°42	1°R 9	2°47	11°43	n.a.	T 3
F 4	6 40 55	11°21'23	19°12	16° 2	26° 2	27°46	13°59	21°52	25° 6	3°31	14°42	1° 9	2°44	11°50	n.a.	F 4
S 5	6 44 51	12°22'15	2♉42	16°59	26°48	28°31	14°13	21°47	25° 9	3°32	14°42	1° 7	2°41	11°57	n.a.	S 5
S 6	6 48 48	13°23'06	16°40	18° 0	27°32	29°15	14°27	21°42	25°12	3°34	14°43	1° 3	2°38	12° 3	n.a.	S 6
M 7	6 52 44	14°23'55	1♊ 8	19° 3	28°16	29°59	14°42	21°37	25°14	3°35	14°43	0°57	2°35	12°10	n.a.	M 7
T 8	6 56 41	15°24'43	16° 1	20° 8	28°58	0♓45	14°56	21°32	25°17	3°37	14°43	0°50	2°31	12°17	n.a.	T 8
W 9	7 0 38	16°25'30	1♋11	21°15	29°39	1°29	15°10	21°27	25°20	3°39	14°43	0°43	2°28	12°24	n.a.	W 9
T 10	7 4 34	17°26'14	16°30	22°25	0♓19	2°14	15°25	21°23	25°22	3°40	14°43	0°36	2°25	12°30	n.a.	T 10
F 11	7 8 31	18°26'57	1♌47	23°37	0°58	2°58	15°39	21°18	25°25	3°42	14°43	0°32	2°22	12°37	n.a.	F 11
S 12	7 12 27	19°27'39	16°49	24°50	1°35	3°43	15°53	21°13	25°27	3°44	14°44	0°29	2°19	12°44	n.a.	S 12
S 13	7 16 24	20°28'20	1♍31	26° 5	2°11	4°27	16° 8	21° 8	25°30	3°45	14°44	0°D28	2°16	12°50	n.a.	S 13
M14	7 20 20	21°28'58	15°46	27°22	2°45	5°11	16°22	21° 3	25°32	3°47	14°44	0°29	2°12	12°57	n.a.	M14
T 15	7 24 17	22°29'36	29°33	28°40	3°19	5°56	16°36	20°58	25°35	3°49	14°44	0°31	2° 9	13° 4	n.a.	T 15
W16	7 28 13	23°30'12	12♎54	29°59	3°50	6°40	16°51	20°53	25°37	3°51	14°45	0°32	2° 6	13°10	n.a.	W16
T 17	7 32 10	24°30'47	25°50	1♏20	4°20	7°24	17° 5	20°49	25°40	3°53	14°45	0°R32	2° 3	13°17	n.a.	T 17
F 18	7 36 7	25°31'21	8♏25	2°42	4°49	8° 8	17°19	20°44	25°42	3°55	14°45	0°31	2° 0	13°24	n.a.	F 18
S 19	7 40 3	26°31'53	20°45	4° 5	5°15	8°53	17°33	20°39	25°44	3°56	14°46	0°29	1°57	13°30	n.a.	S 19
S 20	7 44 0	27°32'24	2♐51	5°30	5°40	9°37	17°48	20°34	25°46	3°58	14°46	0°25	1°53	13°37	n.a.	S 20
M21	7 47 56	28°32'54	14°50	6°55	6° 3	10°21	18° 2	20°29	25°48	4° 0	14°47	0°20	1°50	13°44	n.a.	M21
T 22	7 51 53	29°33'22	26°42	8°22	6°25	11° 5	18°16	20°24	25°51	4° 2	14°47	0°14	1°47	13°51	n.a.	T 22
W23	7 55 49	0♒33'48	8♉32	9°50	6°44	11°49	18°30	20°20	25°53	4° 4	14°48	0° 8	1°44	13°57	n.a.	W23
T 24	7 59 46	1°34'12	20°22	11°19	7° 2	12°33	18°44	20°15	25°55	4° 6	14°48	0° 3	1°41	14° 4	n.a.	T 24
F 25	8 3 42	2°34'35	2♒13	12°49	7°17	13°17	18°58	20°10	25°57	4° 8	14°49	29♒59	1°37	14°11	n.a.	F 25
S 26	8 7 39	3°34'56	14° 8	14°20	7°30	14° 1	19°13	20° 5	25°59	4°10	14°49	29°57	1°34	14°17	n.a.	S 26
S 27	8 11 36	4°35'15	26° 7	15°52	7°41	14°45	19°27	20° 1	26° 0	4°12	14°50	29°D55	1°31	14°24	n.a.	S 27
M28	8 15 32	5°35'32	8♓14	17°25	7°50	15°29	19°41	19°56	26° 2	4°14	14°50	29°56	1°28	14°31	n.a.	M28
T 29	8 19 29	6°35'47	20°31	18°59	7°56	16°12	19°55	19°52	26° 4	4°16	14°51	29°57	1°25	14°37	n.a.	T 29
W30	8 23 25	7°36'00	3♈ 0	20°34	8° 0	16°56	20° 9	19°47	26° 6	4°18	14°51	29°58	1°22	14°44	n.a.	W30
T 31	8 27 22	8♒36'10	15♈44	22♉10	8°R 2	17♓40	20♉23	19♋43	26♏ 7	4♓20	14♈52	0♓ 0	1♓18	14♉51	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23 s27	6 s38	0n54	20 s47	1n55	13 s 8	0n41	13 s58	0 s51	23 s33	0 s30	22n38	0n46	19 s 5	0n 8	11 s40	1 s24	8 s45	15 s52	11 s12	10 s33	27 s13		n.a.
W 2	23 23	0 49	1 58	21 2	1 45	12 44	0 49	13 42	0 51	23 31	0 31	22 39	0 46	19 6	0 8	11 39	1 24	8 45	15 52	11 12	10 35	27 12		n.a.
T 3	23 18	5n11	2 57	21 18	1 35	12 20	0 58	13 25	0 50	23 30	0 31	22 40	0 46	19 7	0 8	11 38	1 24	8 45	15 52	11 11	10 36	27 11		n.a.
F 4	23 13	11 8	3 50	21 34	1 25	11 56	1 7	13 9	0 49	23 29	0 31	22 41	0 46	19 8	0 8	11 38	1 24	8 44	15 51	11 11	10 37	27 9		n.a.
S 5	23 8	16 47	4 31	21 50	1 15	11 32	1 15	12 53	0 48	23 27	0 31	22 41	0 46	19 8	0 8	11 37	1 24	8 44	15 51	11 12	10 38	27 8		n.a.
S 6	23 2	21 46	4 59	22 5	1 5	11 9	1 24	12 36	0 47	23 26	0 31	22 42	0 47	19 9	0 8	11 37	1 24	8 44	15 51	11 14	10 39	27 7		n.a.
M 7	22 55	25 38	5 8	22 20	0 55	10 45	1 34	12 20	0 47	23 24	0 31	22 43	0 47	19 10	0 8	11 36	1 24	8 43	15 50	11 16	10 40	27 6		n.a.
T 8	22 49	27 54	4 58	22 35	0 45	10 21	1 43	12 3	0 46	23 23	0 31	22 44	0 47	19 10	0 8	11 35	1 24	8 43	15 50	11 18	10 42	27 5		n.a.
W 9	22 41	28 8	4 26	22 49	0 36	9 58	1 53	11 46	0 45	23 21	0 31	22 45	0 47	19 11	0 8	11 35	1 24	8 42	15 50	11 21	10 43	27 4		n.a.
T 10	22 34	26 14	3 35	23 3	0 27	9 35	2 3	11 29	0 44	23 20	0 31	22 46	0 47	19 12	0 8	11 34	1 24	8 42	15 49	11 23	10 44	27 2		n.a.
F 11	22 25	22 25	2 29	23 16	0 18	9 12	2 12	11 12	0 43	23 18	0 31	22 47	0 47	19 12	0 8	11 33	1 24	8 42	15 49	11 25	10 45	27 1		n.a.
S 12	22 17	17 8	1 13	23 28	0 9	8 49	2 23	10 55	0 43	23 16	0 31	22 48	0 47	19 13	0 8	11 33	1 23	8 41	15 48	11 26	10 46	27 0		n.a.
S 13	22 8	10 58	0 s 6	23 39	0 0	8 26	2 33	10 38	0 42	23 15	0 32	22 48	0 47	19 13	0 8	11 32	1 23	8 41	15 48	11 26	10 47	26 59		n.a.
M14	21 58	4 25	1 22	23 49	0 s 8	8 4	2 43	10 21	0 41	23 13	0 32	22 49	0 47	19 14	0 8	11 31	1 23	8 40	15 48	11 26	10 48	26 57		n.a.
T 15	21 49	2 s 8	2 32	23 59	0 17	7 42	2 54	10 4	0 40	23 12	0 32	22 50	0 48	19 15	0 8	11 31	1 23	8 40	15 47	11 25	10 50	26 56		n.a.
W16	21 38	8 22	3 30	24 7	0 25	7 21	3 5	9 46	0 39	23 10	0 32	22 51	0 48	19 15	0 8	11 30	1 23	8 40	15 47	11 25	10 51	26 55		n.a.
T 17	21 28	14 4	4 16	24 15	0 32	6 59	3 16	9 29	0 39	23 8	0 32	22 52	0 48	19 16	0 8	11 29	1 23	8 39	15 47	11 24	10 52	26 54		n.a.
F 18	21 17	19 1	4 49	24 21	0 40	6 39	3 27	9 12	0 38	23 6	0 32	22 53	0 48	19 16	0 8	11 29	1 23	8 39	15 46	11 25	10 53	26 52		n.a.
S 19	21 5	23 4	5 7	24 26	0 47	6 18	3 39	8 54	0 37	23 5	0 32	22 54	0 48	19 17	0 8	11 28	1 23	8 38	15 46	11 26	10 54	26 51		n.a.
S 20	20 53	26 3	5 11	24 30	0 54	5 58	3 50	8 37	0 36	23 3	0 32	22 54	0 48	19 17	0 8	11 27	1 23	8 38	15 46	11 27	10 55	26 50		n.a.
M21	20 41	27 50	5 2	24 32	1 1	5 39	4 2	8 19	0 35	23 1	0 32	22 55	0 48	19 18	0 8	11 27	1 23	8 37	15 45	11 29	10 56	26 48		n.a.
T 22	20 29	28 19	4 39	24 34	1 7	5 20	4 13	8 1	0 35	22 59	0 33	22 56	0 48	19 18	0 8	11 26	1 23	8 37	15 45	11 31	10 58	26 47		n.a.
W23	20 16	27 30	4 5	24 34	1 13	5 2	4 25	7 44	0 34	22 57	0 33	22 57	0 48	19 19	0 8	11 25	1 23	8 36	15 45	11 33	10 59	26 46		n.a.
T 24	20 2	25 26	3 20	24 32	1 19	4 45	4 37	7 26	0 33	22 55	0 33	22 58	0 48	19 19	0 8	11 24	1 23	8 36	15 44	11 35	11 0	26 45		n.a.
F 25	19 48	22 16	2 26	24 30	1 25	4 28	4 49	7 8	0 32	22 54	0 33	22 59	0 48	19 20	0 8	11 24	1 23	8 35	15 44	11 36	11 1	26 43		n.a.
S 26	19 34	18 9	1 26	24 25	1 30	4 12	5 1	6 50	0 31	22 52	0 33	22 59	0 49	19 20	0 8	11 23	1 23	8 35	15 44	11 37	11 2	26 42		n.a.
S 27	19 20	13 17	0 21	24 20	1 35	3 57	5 13	6 33	0 31	22 50	0 33	23 0	0 49	19 21	0 8	11 22	1 23	8 34	15 43	11 38	11 3	26 41		n.a.
M28	19 5	7 52	0n46	24 13	1 40	3 42	5 25	6 15	0 30	22 48	0 33	23 1	0 49	19 21	0 8	11 21	1 23	8 34	15 43	11 37	11 4	26 39		n.a.
T 29	18 50	2 6	1 51	24 4	1 44	3 29	5 37	5 57	0 29	22 46	0 33	23 2	0 49	19 22	0 8	11 21	1 23	8 33	15 43	11 37	11 6	26 38		n.a.
W30	18 35	3n50	2 52	23 54	1 48	3 16	5 49	5 39	0 28	22 44	0 33	23 2	0 49	19 22	0 8	11 20	1 23	8 33	15 42	11 37	11 7	26 36		n.a.
T 31	18 s19	9n44	3n46	23 s42	1 s51	3 s 4	6n 1	5 s21	0 s28	22 s42	0 s34	23n 3	0n49	19 s22	0n 8	11 s19	1 s23	8 s32	15 s42	11 s36	11 s 8	26 s35		n.a.

Julian Day Number = 1679419.5, Delta T = 03h16m17s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'13, Lahiri = - 5°32'12 Julian Calendar 1 Jan. 115 BCE == Greg. Calendar 29 Dec. 116 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

FEBRUARY 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 31 18	9♒36'19	28♈47	23♉48	8°R 1	18♓24	20♉37	19°R38	26♏ 9	4♓22	14♈53	0♓ 1	1♓15	14♉57	n.a.	F 1
S 2	8 35 15	10°36'25	12♊12	25°26	7♓58	19° 7	20°51	19♋34	26°11	4°25	14°53	0°R 1	1°12	15° 4	n.a.	S 2
S 3	8 39 11	11°36'29	25°59	27° 5	7°52	19°51	21° 5	19°29	26°12	4°27	14°54	0° 1	1° 9	15°11	n.a.	S 3
M 4	8 43 8	12°36'31	10♊11	28°46	7°43	20°34	21°18	19°25	26°14	4°29	14°55	29♒59	1° 6	15°17	n.a.	M 4
T 5	8 47 5	13°36'30	24°45	0♒27	7°33	21°18	21°32	19°21	26°15	4°31	14°55	29°58	1° 3	15°24	n.a.	T 5
W 6	8 51 1	14°36'28	9♋36	2°10	7°19	22° 1	21°46	19°17	26°17	4°33	14°56	29°56	0°59	15°31	n.a.	W 6
T 7	8 54 58	15°36'23	24°39	3°54	7° 3	22°45	22° 0	19°13	26°18	4°35	14°57	29°54	0°56	15°38	n.a.	T 7
F 8	8 58 54	16°36'15	9♌44	5°38	6°45	23°28	22°13	19° 8	26°19	4°37	14°58	29°53	0°53	15°44	n.a.	F 8
S 9	9 2 51	17°36'06	24°43	7°24	6°24	24°11	22°27	19° 4	26°21	4°40	14°59	29°D52	0°50	15°51	n.a.	S 9
S 10	9 6 47	18°35'55	9♍26	9°12	6° 1	24°55	22°41	19° 1	26°22	4°42	14°59	29°52	0°47	15°58	n.a.	S 10
M11	9 10 44	19°35'41	23°48	11° 0	5°35	25°38	22°54	18°57	26°23	4°44	15° 0	29°53	0°43	16° 4	n.a.	M11
T 12	9 14 40	20°35'26	7♎45	12°49	5° 8	26°21	23° 8	18°53	26°24	4°46	15° 1	29°53	0°40	16°11	n.a.	T 12
W13	9 18 37	21°35'09	21°15	14°40	4°39	27° 4	23°21	18°49	26°25	4°48	15° 2	29°54	0°37	16°18	n.a.	W13
T 14	9 22 34	22°34'50	4♏20	16°32	4° 7	27°47	23°35	18°46	26°26	4°51	15° 3	29°55	0°34	16°24	n.a.	T 14
F 15	9 26 30	23°34'29	17° 2	18°25	3°35	28°30	23°48	18°42	26°27	4°53	15° 4	29°55	0°31	16°31	n.a.	F 15
S 16	9 30 27	24°34'06	29°24	20°19	3° 0	29°13	24° 2	18°39	26°28	4°55	15° 5	29°R55	0°28	16°38	n.a.	S 16
S 17	9 34 23	25°33'42	11♐31	22°14	2°25	29°56	24°15	18°35	26°29	4°57	15° 5	29°55	0°24	16°44	n.a.	S 17
M18	9 38 20	26°33'16	23°28	24°11	1°49	0♈39	24°28	18°32	26°29	5° 0	15° 6	29°55	0°21	16°51	n.a.	M18
T 19	9 42 16	27°32'48	5♑19	26° 8	1°11	1°22	24°41	18°29	26°30	5° 2	15° 7	29°54	0°18	16°58	n.a.	T 19
W20	9 46 13	28°32'17	17° 8	28° 7	0°34	2° 5	24°54	18°25	26°31	5° 4	15° 8	29°54	0°15	17° 4	n.a.	W20
T 21	9 50 9	29°31'45	28°58	0♓ 6	29♒56	2°48	25° 7	18°22	26°32	5° 6	15° 9	29°D54	0°12	17°11	n.a.	T 21
F 22	9 54 6	0♓31'11	10♒53	2° 6	29°18	3°31	25°20	18°19	26°32	5° 9	15°10	29°54	0° 9	17°18	n.a.	F 22
S 23	9 58 3	1°30'35	22°55	4° 7	28°40	4°13	25°33	18°16	26°33	5°11	15°11	29°54	0° 5	17°24	n.a.	S 23
S 24	10 1 59	2°29'57	5♓ 5	6° 9	28° 3	4°56	25°46	18°14	26°33	5°13	15°12	29°R54	0° 2	17°31	n.a.	S 24
M25	10 5 56	3°29'16	17°27	8°11	27°26	5°39	25°59	18°11	26°34	5°15	15°13	29°54	29♒59	17°38	n.a.	M25
T 26	10 9 52	4°28'33	0♈ 0	10°13	26°51	6°21	26°12	18° 8	26°34	5°18	15°15	29°54	29°56	17°44	n.a.	T 26
W27	10 13 49	5°27'48	12°46	12°16	26°17	7° 4	26°25	18° 6	26°34	5°20	15°16	29°53	29°53	17°51	n.a.	W27
T 28	10 17 45	6♓27'01	25♈46	14♓18	25♒44	7♈46	26♉37	18♋ 3	26♏34	5♓22	15♈17	29♒52	29♒49	17♉58	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	18s 3	15n22	4n30	23s28	1s55	2s53	6n13	5s 3	0s27	22s40	0s34	23n 4	0n49	19s23	0n 8	11s18	1s23	8s32	15s42	11s36	11s 9	26s34		n.a.	F 1
S 2	17 47	20 26	5 1	23 13	1 57	2 44	6 25	4 45	0 26	22 38	0 34	23 5	0 49	19 23	0 8	11 17	1 23	8 31	15 41	11 35	11 10	26 32		n.a.	S 2
S 3	17 30	24 34	5 15	22 56	2 0	2 35	6 37	4 27	0 25	22 36	0 34	23 5	0 49	19 24	0 8	11 17	1 23	8 31	15 41	11 36	11 11	26 31		n.a.	S 3
M 4	17 13	27 21	5 11	22 38	2 2	2 28	6 48	4 9	0 24	22 34	0 34	23 6	0 49	19 24	0 8	11 16	1 23	8 30	15 41	11 36	11 12	26 30		n.a.	M 4
T 5	16 56	28 23	4 47	22 17	2 4	2 22	6 59	3 51	0 24	22 32	0 34	23 7	0 49	19 24	0 8	11 15	1 23	8 30	15 41	11 37	11 14	26 28		n.a.	T 5
W 6	16 38	27 24	4 3	21 56	2 5	2 17	7 10	3 33	0 23	22 30	0 34	23 7	0 49	19 25	0 8	11 14	1 23	8 29	15 40	11 38	11 15	26 27		n.a.	W 6
T 7	16 20	24 26	3 3	21 32	2 6	2 13	7 20	3 15	0 22	22 28	0 35	23 8	0 49	19 25	0 8	11 13	1 23	8 28	15 40	11 38	11 16	26 25		n.a.	T 7
F 8	16 2	19 46	1 49	21 6	2 6	2 10	7 30	2 57	0 21	22 25	0 35	23 9	0 49	19 25	0 8	11 13	1 23	8 28	15 40	11 39	11 17	26 24		n.a.	F 8
S 9	15 44	13 53	0 29	20 39	2 6	2 9	7 39	2 39	0 21	22 23	0 35	23 9	0 49	19 26	0 8	11 12	1 23	8 27	15 39	11 39	11 18	26 22		n.a.	S 9
S 10	15 25	7 18	0s53	20 10	2 5	2 9	7 48	2 21	0 20	22 21	0 35	23 10	0 50	19 26	0 8	11 11	1 23	8 27	15 39	11 39	11 19	26 21		n.a.	S 10
M11	15 7	0 31	2 9	19 39	2 4	2 11	7 57	2 3	0 19	22 19	0 35	23 10	0 50	19 26	0 8	11 10	1 23	8 26	15 39	11 39	11 20	26 20		n.a.	M11
T 12	14 47	6s 5	3 15	19 7	2 3	2 14	8 4	1 45	0 18	22 17	0 35	23 11	0 50	19 26	0 8	11 9	1 23	8 26	15 38	11 38	11 22	26 18		n.a.	T 12
W13	14 28	12 12	4 8	18 32	2 1	2 18	8 11	1 27	0 18	22 15	0 35	23 12	0 50	19 27	0 8	11 8	1 23	8 25	15 38	11 38	11 23	26 17		n.a.	W13
T 14	14 9	17 35	4 46	17 56	1 58	2 23	8 18	1 9	0 17	22 13	0 35	23 12	0 50	19 27	0 8	11 8	1 23	8 24	15 38	11 38	11 24	26 15		n.a.	T 14
F 15	13 49	22 3	5 9	17 18	1 55	2 30	8 23	0 51	0 16	22 10	0 36	23 13	0 50	19 27	0 8	11 7	1 23	8 24	15 38	11 38	11 25	26 14		n.a.	F 15
S 16	13 29	25 24	5 17	16 38	1 52	2 38	8 28	0 33	0 16	22 8	0 36	23 13	0 50	19 27	0 8	11 6	1 23	8 23	15 37	11 38	11 26	26 12		n.a.	S 16
S 17	13 9	27 33	5 11	15 57	1 47	2 47	8 31	0 15	0 15	22 6	0 36	23 14	0 50	19 27	0 8	11 5	1 23	8 23	15 37	11 38	11 27	26 11		n.a.	S 17
M18	12 48	28 23	4 51	15 13	1 43	2 57	8 34	0n 3	0 14	22 4	0 36	23 14	0 50	19 28	0 8	11 4	1 23	8 22	15 37	11 38	11 28	26 9		n.a.	M18
T 19	12 28	27 55	4 19	14 28	1 37	3 8	8 36	0 21	0 13	22 1	0 36	23 15	0 50	19 28	0 8	11 3	1 23	8 21	15 37	11 38	11 30	26 8		n.a.	T 19
W20	12 7	26 10	3 36	13 42	1 32	3 20	8 37	0 39	0 13	21 59	0 36	23 15	0 50	19 28	0 8	11 3	1 23	8 21	15 36	11 38	11 31	26 6		n.a.	W20
T 21	11 46	23 16	2 43	12 53	1 25	3 33	8 37	0 57	0 12	21 57	0 37	23 16	0 50	19 28	0 8	11 2	1 23	8 20	15 36	11 38	11 32	26 5		n.a.	T 21
F 22	11 25	19 22	1 44	12 3	1 18	3 47	8 36	1 14	0 11	21 55	0 37	23 16	0 50	19 28	0 8	11 1	1 23	8 20	15 36	11 38	11 33	26 3		n.a.	F 22
S 23	11 4	14 39	0 39	11 12	1 11	4 2	8 34	1 32	0 10	21 52	0 37	23 17	0 50	19 28	0 8	11 0	1 23	8 19	15 36	11 38	11 34	26 2		n.a.	S 23
S 24	10 42	9 18	0n29	10 19	1 2	4 17	8 31	1 50	0 10	21 50	0 37	23 17	0 50	19 29	0 8	10 59	1 23	8 18	15 35	11 38	11 35	26 0		n.a.	S 24
M25	10 20	3 33	1 36	9 25	0 54	4 33	8 27	2 8	0 9	21 48	0 37	23 17	0 50	19 29	0 8	10 58	1 23	8 18	15 35	11 38	11 36	25 59		n.a.	M25
T 26	9 59	2n26	2 39	8 30	0 44	4 50	8 23	2 25	0 8	21 46	0 37	23 18	0 50	19 29	0 8	10 58	1 23	8 17	15 35	11 38	11 37	25 57		n.a.	T 26
W27	9 37	8 25	3 36	7 34	0 35	5 6	8 17	2 43	0 8	21 43	0 37	23 18	0 50	19 29	0 8	10 57	1 23	8 16	15 35	11 38	11 39	25 55		n.a.	W27
T 28	9s15	14n 8	4n23	6s38	0s24	5s23	8n11	3n 1	0s 7	21s41	0s38	23n18	0n50	19s29	0n 8	10s56	1s23	8s16	15s34	11s39	11s40	25s54		n.a.	T 28

Julian Day Number = 1679450.5, Delta T = 03h16m16s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'08, Lahiri = - 5°32'08 Julian Calendar 1 Feb. 115 BCE == Greg. Calendar 29 Jan. 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

MARCH 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 21 42	7♓26'11	9♉ 1	16♓19	25°R12	8♈29	26♉50	18°R 1	26♏35	5♓25	15♈18	29°R51	29♒46	18♉ 5	n.a.	F 1
S 2	10 25 38	8°25'19	22°32	18°19	24♒43	9°11	27° 2	17♋59	26°35	5°27	15°19	29♒51	29°43	18°11	n.a.	S 2
S 3	10 29 35	9°24'25	6♊18	20°19	24°15	9°54	27°15	17°57	26°35	5°29	15°20	29°D50	29°40	18°18	n.a.	S 3
M 4	10 33 31	10°23'28	20°20	22°17	23°49	10°36	27°27	17°55	26°35	5°31	15°21	29°51	29°37	18°25	n.a.	M 4
T 5	10 37 28	11°22'29	4♋36	24°12	23°26	11°18	27°39	17°53	26°R35	5°34	15°22	29°51	29°34	18°31	n.a.	T 5
W 6	10 41 25	12°21'27	19° 5	26° 6	23° 5	12° 0	27°51	17°51	26°35	5°36	15°23	29°52	29°30	18°38	n.a.	W 6
T 7	10 45 21	13°20'23	3♌42	27°56	22°46	12°43	28° 4	17°49	26°35	5°38	15°25	29°53	29°27	18°45	n.a.	T 7
F 8	10 49 18	14°19'16	18°23	29°44	22°29	13°25	28°16	17°47	26°35	5°40	15°26	29°54	29°24	18°51	n.a.	F 8
S 9	10 53 14	15°18'07	3♍ 1	1♈28	22°15	14° 7	28°28	17°46	26°35	5°43	15°27	29°R54	29°21	18°58	n.a.	S 9
S 10	10 57 11	16°16'56	17°30	3° 9	22° 3	14°49	28°39	17°44	26°34	5°45	15°28	29°53	29°18	19° 5	n.a.	S 10
M11	11 1 7	17°15'43	1♎44	4°45	21°54	15°31	28°51	17°43	26°34	5°47	15°29	29°52	29°15	19°11	n.a.	M11
T 12	11 5 4	18°14'28	15°38	6°17	21°47	16°13	29° 3	17°42	26°34	5°49	15°31	29°50	29°11	19°18	n.a.	T 12
W13	11 9 0	19°13'11	29°10	7°44	21°43	16°55	29°15	17°41	26°33	5°52	15°32	29°47	29° 8	19°25	n.a.	W13
T 14	11 12 57	20°11'52	12♏19	9° 6	21°D41	17°37	29°26	17°40	26°33	5°54	15°33	29°44	29° 5	19°31	n.a.	T 14
F 15	11 16 54	21°10'31	25° 5	10°23	21°42	18°18	29°38	17°39	26°32	5°56	15°34	29°42	29° 2	19°38	n.a.	F 15
S 16	11 20 50	22° 9'09	7♐31	11°35	21°45	19° 0	29°49	17°38	26°32	5°58	15°36	29°40	28°59	19°45	n.a.	S 16
S 17	11 24 47	23° 7'45	19°41	12°42	21°50	19°42	0♒ 0	17°37	26°31	6° 0	15°37	29°D39	28°55	19°51	n.a.	S 17
M18	11 28 43	24° 6'19	1♑39	13°43	21°57	20°24	0°11	17°37	26°30	6° 3	15°38	29°39	28°52	19°58	n.a.	M18
T 19	11 32 40	25° 4'51	13°31	14°39	22° 7	21° 5	0°23	17°36	26°30	6° 5	15°39	29°40	28°49	20° 5	n.a.	T 19
W20	11 36 36	26° 3'21	25°20	15°28	22°19	21°47	0°34	17°36	26°29	6° 7	15°41	29°42	28°46	20°11	n.a.	W20
T 21	11 40 33	27° 1'50	7♒12	16°12	22°33	22°29	0°44	17°36	26°28	6° 9	15°42	29°44	28°43	20°18	n.a.	T 21
F 22	11 44 29	28° 0'17	19°11	16°50	22°49	23°10	0°55	17°36	26°27	6°11	15°43	29°45	28°40	20°25	n.a.	F 22
S 23	11 48 26	28°58'42	1♓20	17°22	23° 7	23°52	1° 6	17°D35	26°26	6°13	15°45	29°R45	28°36	20°31	n.a.	S 23
S 24	11 52 23	29°57'05	13°43	17°48	23°26	24°33	1°17	17°36	26°25	6°15	15°46	29°45	28°33	20°38	n.a.	S 24
M25	11 56 19	0♈55'27	26°20	18° 9	23°48	25°15	1°27	17°36	26°24	6°18	15°47	29°42	28°30	20°45	n.a.	M25
T 26	12 0 16	1°53'46	9♈14	18°23	24°11	25°56	1°37	17°36	26°23	6°20	15°49	29°38	28°27	20°51	n.a.	T 26
W27	12 4 12	2°52'04	22°23	18°31	24°36	26°37	1°48	17°36	26°22	6°22	15°50	29°33	28°24	20°58	n.a.	W27
T 28	12 8 9	3°50'19	5♉47	18°R34	25° 3	27°19	1°58	17°37	26°21	6°24	15°51	29°28	28°20	21° 5	n.a.	T 28
F 29	12 12 5	4°48'33	19°23	18°32	25°31	28° 0	2° 8	17°37	26°20	6°26	15°53	29°23	28°17	21°11	n.a.	F 29
S 30	12 16 2	5°46'44	3♊11	18°24	26° 1	28°41	2°18	17°38	26°19	6°28	15°54	29°18	28°14	21°18	n.a.	S 30
S 31	12 19 58	6♈44'54	17♊ 8	18♈10	26♒32	29♈22	2♒28	17♋39	26♏17	6♓30	15♈55	29♒15	28♒11	21♉25	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	8s53	19n20	4n56	5s40	0s14	5s40	8n 4	3n18	0s 6	21s39	0s38	23n19	0n50	19s29	0n 8	10s55	1s23	8s15	15s34	11s39	11s41	25s52		n.a.	
S 2	8 30	23 40	5 14	4 43	0 3	5 57	7 56	3 36	0 6	21 37	0 38	23 19	0 50	19 29	0 8	10 54	1 23	8 15	15 34	11 39	11 42	25 51		n.a.	
S 3	8 8	26 46	5 15	3 45	0n 9	6 14	7 48	3 53	0 5	21 34	0 38	23 19	0 50	19 29	0 8	10 53	1 23	8 14	15 34	11 39	11 43	25 49		n.a.	
M 4	7 45	28 17	4 57	2 47	0 20	6 31	7 38	4 11	0 4	21 32	0 38	23 20	0 50	19 29	0 8	10 53	1 23	8 13	15 34	11 39	11 44	25 47		n.a.	
T 5	7 23	27 58	4 21	1 50	0 32	6 48	7 29	4 28	0 4	21 30	0 38	23 20	0 50	19 29	0 8	10 52	1 23	8 13	15 33	11 39	11 45	25 46		n.a.	
W 6	7 0	25 45	3 27	0 54	0 44	7 4	7 19	4 45	0 3	21 27	0 39	23 20	0 50	19 29	0 8	10 51	1 23	8 12	15 33	11 39	11 46	25 44		n.a.	
T 7	6 37	21 49	2 20	0n 2	0 56	7 20	7 8	5 3	0 2	21 25	0 39	23 21	0 50	19 29	0 8	10 50	1 23	8 12	15 33	11 38	11 48	25 43		n.a.	
F 8	6 14	16 30	1 3	0 56	1 8	7 36	6 57	5 20	0 1	21 23	0 39	23 21	0 50	19 29	0 8	10 49	1 23	8 11	15 33	11 38	11 49	25 41		n.a.	
S 9	5 51	10 15	0s17	1 48	1 20	7 51	6 46	5 37	0 1	21 21	0 39	23 21	0 50	19 29	0 8	10 48	1 23	8 10	15 33	11 38	11 50	25 39		n.a.	
S 10	5 28	3 32	1 36	2 39	1 31	8 6	6 34	5 54	0 0	21 18	0 39	23 21	0 50	19 29	0 8	10 48	1 23	8 10	15 32	11 38	11 51	25 38		n.a.	
M11	5 5	3s15	2 47	3 28	1 43	8 20	6 23	6 11	0n 1	21 16	0 39	23 21	0 50	19 29	0 8	10 47	1 23	8 9	15 32	11 39	11 52	25 36		n.a.	
T 12	4 42	9 42	3 46	4 15	1 53	8 33	6 11	6 28	0 1	21 14	0 40	23 22	0 50	19 29	0 8	10 46	1 23	8 8	15 32	11 40	11 53	25 34		n.a.	
W13	4 19	15 31	4 31	5 0	2 4	8 46	5 59	6 45	0 2	21 11	0 40	23 22	0 50	19 29	0 8	10 45	1 23	8 8	15 32	11 41	11 54	25 33		n.a.	
T 14	3 56	20 28	5 1	5 42	2 14	8 58	5 47	7 2	0 2	21 9	0 40	23 22	0 51	19 28	0 8	10 44	1 23	8 7	15 32	11 42	11 55	25 31		n.a.	
F 15	3 32	24 19	5 14	6 21	2 23	9 10	5 34	7 18	0 3	21 7	0 40	23 22	0 51	19 28	0 8	10 44	1 23	8 7	15 32	11 42	11 57	25 29		n.a.	
S 16	3 9	26 56	5 12	6 57	2 32	9 20	5 22	7 35	0 4	21 5	0 40	23 22	0 51	19 28	0 8	10 43	1 23	8 6	15 31	11 43	11 58	25 28		n.a.	
S 17	2 45	28 13	4 56	7 31	2 39	9 30	5 10	7 52	0 4	21 2	0 41	23 22	0 51	19 28	0 8	10 42	1 23	8 5	15 31	11 43	11 59	25 26		n.a.	
M18	2 22	28 9	4 27	8 1	2 46	9 39	4 58	8 8	0 5	21 0	0 41	23 22	0 51	19 28	0 8	10 41	1 23	8 5	15 31	11 43	12 0	25 24		n.a.	
T 19	1 59	26 47	3 47	8 29	2 52	9 48	4 45	8 24	0 6	20 58	0 41	23 22	0 51	19 28	0 8	10 40	1 23	8 4	15 31	11 43	12 1	25 23		n.a.	
W20	1 35	24 14	2 58	8 53	2 57	9 55	4 33	8 41	0 6	20 56	0 41	23 22	0 51	19 28	0 8	10 40	1 23	8 4	15 31	11 42	12 2	25 21		n.a.	
T 21	1 12	20 38	2 1	9 14	3 2	10 2	4 21	8 57	0 7	20 54	0 41	23 22	0 51	19 27	0 8	10 39	1 23	8 3	15 31	11 42	12 3	25 19		n.a.	
F 22	0 48	16 9	0 58	9 31	3 5	10 8	4 9	9 13	0 8	20 51	0 42	23 23	0 51	19 27	0 8	10 38	1 23	8 2	15 31	11 41	12 4	25 18		n.a.	
S 23	0 25	10 59	0n 9	9 46	3 7	10 14	3 58	9 29	0 8	20 49	0 42	23 23	0 51	19 27	0 8	10 37	1 23	8 2	15 30	11 41	12 5	25 16		n.a.	
S 24	0 1	5 19	1 16	9 57	3 7	10 18	3 46	9 45	0 9	20 47	0 42	23 23	0 51	19 27	0 8	10 36	1 23	8 1	15 30	11 41	12 7	25 14		n.a.	
M25	0n22	0n40	2 20	10 4	3 7	10 22	3 35	10 1	0 10	20 45	0 42	23 23	0 51	19 27	0 8	10 36	1 23	8 1	15 30	11 42	12 8	25 12		n.a.	
T 26	0 46	6 45	3 19	10 8	3 5	10 25	3 23	10 17	0 10	20 43	0 42	23 22	0 51	19 26	0 8	10 35	1 24	8 0	15 30	11 44	12 9	25 11		n.a.	
W27	1 9	12 38	4 8	10 8	3 2	10 27	3 12	10 33	0 11	20 41	0 43	23 22	0 51	19 26	0 8	10 34	1 24	7 59	15 30	11 45	12 10	25 9		n.a.	
T 28	1 33	18 4	4 45	10 6	2 58	10 29	3 1	10 49	0 11	20 39	0 43	23 22	0 51	19 26	0 8	10 33	1 24	7 59	15 30	11 47	12 11	25 7		n.a.	
F 29	1 56	22 41	5 6	9 59	2 52	10 29	2 50	11 4	0 12	20 36	0 43	23 22	0 51	19 26	0 8	10 33	1 24	7 58	15 30	11 49	12 12	25 5		n.a.	
S 30	2 19	26 6	5 10	9 50	2 45	10 29	2 40	11 19	0 13	20 34	0 43	23 22	0 51	19 25	0 8	10 32	1 24	7 58	15 30	11 51	12 13	25 4		n.a.	
S 31	2n43	27n59	4n56	9n37	2n37	10s29	2n29	11n35	0n13	20s32	0s43	23n22	0n51	19s25	0n 8	10s31	1s24	7s57	15s30	11s52	12s14	25s 2		n.a.	

Julian Day Number = 1679478.5, Delta T = 03h16m15s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'05, Lahiri = - 5°32'04 Julian Calendar 1 March 115 BCE == Greg. Calendar 26 Feb. 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

APRIL 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 23 55	7♈43'01	1♋11	17°R53	27♒ 4	0♉ 3	2♒37	17♋40	26°R16	6♓32	15♈57	29°R13	28♒ 8	21♑31	n.a.	M 1
T 2	12 27 51	8°41'07	15°20	17♈30	27°38	0°45	2°47	17°41	26♏15	6°34	15°58	29°D13	28° 5	21°38	n.a.	T 2
W 3	12 31 48	9°39'10	29°33	17° 4	28°13	1°26	2°57	17°42	26°13	6°36	15°59	29♒14	28° 1	21°45	n.a.	W 3
T 4	12 35 45	10°37'11	13♌48	16°35	28°50	2° 7	3° 6	17°43	26°12	6°38	16° 1	29°16	27°58	21°52	n.a.	T 4
F 5	12 39 41	11°35'10	28° 2	16° 3	29°27	2°48	3°15	17°45	26°11	6°40	16° 2	29°R16	27°55	21°58	n.a.	F 5
S 6	12 43 38	12°33'08	12♍13	15°28	0♓ 6	3°29	3°24	17°46	26° 9	6°42	16° 3	29°16	27°52	22° 5	n.a.	S 6
S 7	12 47 34	13°31'03	26°17	14°52	0°46	4° 9	3°33	17°48	26° 7	6°44	16° 5	29°13	27°49	22°12	n.a.	S 7
M 8	12 51 31	14°28'56	10♎10	14°15	1°27	4°50	3°42	17°49	26° 6	6°46	16° 6	29° 8	27°46	22°18	n.a.	M 8
T 9	12 55 27	15°26'48	23°50	13°38	2° 8	5°31	3°51	17°51	26° 4	6°47	16° 8	29° 2	27°42	22°25	n.a.	T 9
W10	12 59 24	16°24'39	7♏12	13° 1	2°51	6°12	4° 0	17°53	26° 3	6°49	16° 9	28°54	27°39	22°32	n.a.	W10
T 11	13 3 20	17°22'27	20°15	12°25	3°35	6°53	4° 8	17°55	26° 1	6°51	16°10	28°46	27°36	22°38	n.a.	T 11
F 12	13 7 17	18°20'15	2♐59	11°50	4°20	7°33	4°16	17°57	25°59	6°53	16°12	28°38	27°33	22°45	n.a.	F 12
S 13	13 11 14	19°18'01	15°25	11°18	5° 6	8°14	4°25	17°59	25°57	6°55	16°13	28°31	27°30	22°52	n.a.	S 13
S 14	13 15 10	20°15'46	27°35	10°49	5°52	8°55	4°33	18° 1	25°56	6°57	16°14	28°27	27°26	22°58	n.a.	S 14
M15	13 19 7	21°13'30	9♑34	10°23	6°39	9°35	4°41	18° 4	25°54	6°58	16°16	28°24	27°23	23° 5	n.a.	M15
T 16	13 23 3	22°11'12	21°26	10° 0	7°27	10°16	4°48	18° 6	25°52	7° 0	16°17	28°D23	27°20	23°12	n.a.	T 16
W17	13 27 0	23° 8'53	3♒16	9°41	8°16	10°56	4°56	18° 9	25°50	7° 2	16°18	28°24	27°17	23°18	n.a.	W17
T 18	13 30 56	24° 6'33	15° 9	9°26	9° 6	11°37	5° 4	18°11	25°48	7° 3	16°20	28°25	27°14	23°25	n.a.	T 18
F 19	13 34 53	25° 4'12	27°10	9°16	9°56	12°17	5°11	18°14	25°46	7° 5	16°21	28°R25	27°11	23°32	n.a.	F 19
S 20	13 38 49	26° 1'50	9♓25	9°10	10°47	12°58	5°18	18°17	25°44	7° 7	16°22	28°25	27° 7	23°38	n.a.	S 20
S 21	13 42 46	26°59'26	21°56	9°D 8	11°38	13°38	5°25	18°20	25°42	7° 8	16°24	28°22	27° 4	23°45	n.a.	S 21
M22	13 46 43	27°57'02	4♈47	9°11	12°31	14°18	5°32	18°23	25°40	7°10	16°25	28°17	27° 1	23°52	n.a.	M22
T 23	13 50 39	28°54'36	17°59	9°19	13°23	14°59	5°39	18°26	25°38	7°12	16°26	28°10	26°58	23°58	n.a.	T 23
W24	13 54 36	29°52'09	1♉31	9°31	14°17	15°39	5°46	18°29	25°36	7°13	16°28	28° 1	26°55	24° 5	n.a.	W24
T 25	13 58 32	0♉49'40	15°20	9°47	15°10	16°19	5°52	18°32	25°34	7°15	16°29	27°51	26°51	24°12	n.a.	T 25
F 26	14 2 29	1°47'11	29°23	10° 8	16° 5	16°59	5°59	18°36	25°32	7°16	16°30	27°41	26°48	24°18	n.a.	F 26
S 27	14 6 25	2°44'40	13♊36	10°33	17° 0	17°40	6° 5	18°39	25°29	7°18	16°32	27°32	26°45	24°25	n.a.	S 27
S 28	14 10 22	3°42'08	27°52	11° 3	17°55	18°20	6°11	18°43	25°27	7°19	16°33	27°26	26°42	24°32	n.a.	S 28
M29	14 14 18	4°39'35	12♋ 9	11°36	18°51	19° 0	6°17	18°47	25°25	7°21	16°34	27°21	26°39	24°38	n.a.	M29
T 30	14 18 15	5♉37'00	26♋22	12♈14	19♓47	19♉40	6♒22	18♋50	25♏23	7♓22	16♈36	27♒20	26♒36	24♑45	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	3n 6	28n 6	4n24	9n21	2n27	10s27	2n19	11n50	0n14	20s30	0s44	23n22	0n51	19s25	0n 8	10s30	1s24	7s56	15s30	11s52	12s16	25s 0		n.a.	M 1
T 2	3 29	26 24	3 36	9 3	2 16	10 25	2 9	12 5	0 14	20 28	0 44	23 22	0 51	19 24	0 8	10 30	1 24	7 56	15 30	11 52	12 17	24 58		n.a.	T 2
W 3	3 52	22 59	2 34	8 42	2 4	10 22	1 59	12 20	0 15	20 26	0 44	23 22	0 51	19 24	0 8	10 29	1 24	7 55	15 30	11 52	12 18	24 56		n.a.	W 3
T 4	4 15	18 12	1 23	8 18	1 51	10 18	1 49	12 35	0 16	20 24	0 44	23 22	0 51	19 24	0 8	10 28	1 24	7 55	15 29	11 52	12 19	24 55		n.a.	T 4
F 5	4 38	12 24	0 7	7 52	1 37	10 14	1 40	12 50	0 16	20 22	0 45	23 21	0 51	19 23	0 8	10 28	1 24	7 54	15 29	11 51	12 20	24 53		n.a.	F 5
S 6	5 1	5 59	1s10	7 25	1 22	10 9	1 31	13 5	0 17	20 20	0 45	23 21	0 51	19 23	0 8	10 27	1 24	7 54	15 29	11 52	12 21	24 51		n.a.	S 6
S 7	5 24	0s39	2 21	6 57	1 7	10 4	1 21	13 19	0 17	20 18	0 45	23 21	0 51	19 23	0 8	10 26	1 24	7 53	15 29	11 53	12 22	24 49		n.a.	S 7
M 8	5 46	7 10	3 23	6 27	0 50	9 57	1 13	13 34	0 18	20 17	0 45	23 21	0 51	19 22	0 8	10 26	1 24	7 53	15 29	11 54	12 23	24 47		n.a.	M 8
T 9	6 9	13 14	4 12	5 57	0 34	9 50	1 4	13 48	0 18	20 15	0 45	23 21	0 51	19 22	0 8	10 25	1 24	7 52	15 29	11 57	12 24	24 46		n.a.	T 9
W10	6 31	18 34	4 46	5 27	0 17	9 43	0 55	14 2	0 19	20 13	0 46	23 20	0 51	19 21	0 8	10 24	1 24	7 51	15 29	11 59	12 25	24 44		n.a.	W10
T 11	6 54	22 53	5 4	4 57	0s 1	9 34	0 47	14 16	0 20	20 11	0 46	23 20	0 51	19 21	0 8	10 24	1 24	7 51	15 29	12 2	12 27	24 42		n.a.	T 11
F 12	7 16	26 0	5 6	4 28	0 18	9 25	0 39	14 30	0 20	20 9	0 46	23 20	0 51	19 21	0 8	10 23	1 24	7 50	15 29	12 5	12 28	24 40		n.a.	F 12
S 13	7 38	27 46	4 54	4 0	0 34	9 16	0 31	14 44	0 21	20 8	0 46	23 19	0 51	19 20	0 8	10 22	1 24	7 50	15 29	12 7	12 29	24 38		n.a.	S 13
S 14	8 0	28 10	4 29	3 33	0 51	9 6	0 24	14 58	0 21	20 6	0 47	23 19	0 51	19 20	0 8	10 22	1 24	7 49	15 29	12 9	12 30	24 36		n.a.	S 14
M15	8 22	27 13	3 52	3 8	1 7	8 55	0 16	15 12	0 22	20 4	0 47	23 19	0 51	19 19	0 8	10 21	1 24	7 49	15 29	12 10	12 31	24 34		n.a.	M15
T 16	8 44	25 2	3 5	2 45	1 22	8 44	0 9	15 25	0 22	20 2	0 47	23 18	0 51	19 19	0 8	10 20	1 24	7 48	15 29	12 10	12 32	24 33		n.a.	T 16
W17	9 6	21 46	2 11	2 24	1 37	8 32	0 2	15 38	0 23	20 1	0 47	23 18	0 51	19 18	0 8	10 20	1 24	7 48	15 29	12 10	12 33	24 31		n.a.	W17
T 18	9 27	17 36	1 11	2 5	1 50	8 20	0s 5	15 52	0 24	19 59	0 48	23 18	0 51	19 18	0 8	10 19	1 24	7 47	15 29	12 10	12 34	24 29		n.a.	T 18
F 19	9 49	12 42	0 7	1 49	2 3	8 7	0 12	16 5	0 24	19 58	0 48	23 17	0 51	19 18	0 8	10 19	1 24	7 47	15 29	12 9	12 35	24 27		n.a.	F 19
S 20	10 10	7 14	0n59	1 36	2 16	7 54	0 19	16 18	0 25	19 56	0 48	23 17	0 51	19 17	0 8	10 18	1 24	7 46	15 29	12 10	12 37	24 25		n.a.	S 20
S 21	10 31	1 22	2 2	1 25	2 27	7 40	0 25	16 31	0 25	19 55	0 48	23 17	0 51	19 17	0 8	10 17	1 24	7 46	15 29	12 11	12 38	24 23		n.a.	S 21
M22	10 52	4n42	3 2	1 17	2 37	7 25	0 31	16 43	0 26	19 53	0 49	23 16	0 51	19 16	0 8	10 17	1 24	7 45	15 29	12 12	12 39	24 21		n.a.	M22
T 23	11 13	10 42	3 53	1 11	2 46	7 10	0 37	16 56	0 26	19 52	0 49	23 16	0 51	19 16	0 8	10 16	1 25	7 45	15 29	12 15	12 40	24 19		n.a.	T 23
W24	11 33	16 22	4 32	1 9	2 54	6 55	0 43	17 8	0 27	19 50	0 49	23 15	0 51	19 15	0 8	10 16	1 25	7 45	15 29	12 18	12 41	24 17		n.a.	W24
T 25	11 54	21 20	4 56	1 9	3 1	6 39	0 49	17 21	0 27	19 49	0 49	23 15	0 51	19 15	0 8	10 15	1 25	7 44	15 29	12 21	12 42	24 15		n.a.	T 25
F 26	12 14	25 10	5 3	1 11	3 8	6 23	0 54	17 33	0 28	19 48	0 50	23 14	0 51	19 14	0 8	10 15	1 25	7 44	15 30	12 25	12 43	24 13		n.a.	F 26
S 27	12 34	27 31	4 52	1 16	3 13	6 6	0 59	17 45	0 28	19 46	0 50	23 14	0 51	19 14	0 8	10 14	1 25	7 43	15 30	12 28	12 44	24 11		n.a.	S 27
S 28	12 54	28 4	4 22	1 24	3 17	5 49	1 5	17 57	0 29	19 45	0 50	23 13	0 51	19 13	0 8	10 14	1 25	7 43	15 30	12 30	12 45	24 10		n.a.	S 28
M29	13 13	26 44	3 36	1 34	3 21	5 32	1 10	18 8	0 29	19 44	0 50	23 13	0 51	19 13	0 8	10 13	1 25	7 42	15 30	12 32	12 46	24 8		n.a.	M29
T 30	13n33	23n41	2n37	1n46	3s23	5s14	1s14	18n20	0n30	19s43	0s51	23n12	0n51	19s12	0n 8	10s13	1s25	7s42	15s30	12s32	12s47	24s 6		n.a.	T 30

Julian Day Number = 1679509.5, Delta T = 03h16m14s
Ecliptic obliquity = 23°42'41, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°39'00, Lahiri = - 5°32'00 Julian Calendar 1 Apr. 115 BCE == Greg. Calendar 29 March 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

MAY 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 22 12	6♉34'24	10♌30	12♈55	20♓44	20♉20	6♒28	18♋54	25°R20	7♓23	16♈37	27°D19	26♒32	24♑52	n.a.	W 1
T 2	14 26 8	7°31'46	24°32	13°40	21°41	21° 0	6°33	18°58	25♏18	7°25	16°38	27°R20	26°29	24°58	n.a.	T 2
F 3	14 30 5	8°29'07	8♍27	14°29	22°39	21°40	6°38	19° 2	25°16	7°26	16°40	27♒19	26°26	25° 5	n.a.	F 3
S 4	14 34 1	9°26'27	22°14	15°22	23°36	22°20	6°43	19° 6	25°13	7°27	16°41	27°17	26°23	25°12	n.a.	S 4
S 5	14 37 58	10°23'46	5♎53	16°18	24°35	23° 0	6°48	19°10	25°11	7°29	16°42	27°12	26°20	25°18	n.a.	S 5
M 6	14 41 54	11°21'03	19°22	17°18	25°33	23°40	6°53	19°15	25° 9	7°30	16°43	27° 5	26°17	25°25	n.a.	M 6
T 7	14 45 51	12°18'20	2♏40	18°20	26°33	24°20	6°58	19°19	25° 6	7°31	16°45	26°55	26°13	25°32	n.a.	T 7
W 8	14 49 47	13°15'36	15°44	19°27	27°32	24°59	7° 2	19°23	25° 4	7°32	16°46	26°43	26°10	25°38	n.a.	W 8
T 9	14 53 44	14°12'51	28°34	20°36	28°32	25°39	7° 6	19°28	25° 2	7°33	16°47	26°31	26° 7	25°45	n.a.	T 9
F 10	14 57 41	15°10'05	11♐ 8	21°49	29°32	26°19	7°10	19°33	24°59	7°34	16°48	26°19	26° 4	25°52	n.a.	F 10
S 11	15 1 37	16° 7'19	23°28	23° 4	0♈32	26°59	7°14	19°37	24°57	7°36	16°50	26° 9	26° 1	25°58	n.a.	S 11
S 12	15 5 34	17° 4'32	5♑35	24°23	1°33	27°38	7°18	19°42	24°54	7°37	16°51	26° 0	25°57	26° 5	n.a.	S 12
M13	15 9 30	18° 1'44	17°31	25°45	2°34	28°18	7°21	19°47	24°52	7°38	16°52	25°55	25°54	26°12	n.a.	M13
T 14	15 13 27	18°58'57	29°22	27°10	3°35	28°57	7°24	19°52	24°50	7°39	16°53	25°52	25°51	26°18	n.a.	T 14
W15	15 17 23	19°56'08	11♒11	28°37	4°37	29°37	7°27	19°57	24°47	7°40	16°54	25°50	25°48	26°25	n.a.	W15
T 16	15 21 20	20°53'20	23° 3	0♉ 8	5°39	0♊17	7°30	20° 2	24°45	7°41	16°56	25°50	25°45	26°32	n.a.	T 16
F 17	15 25 17	21°50'31	5♓ 5	1°42	6°41	0°56	7°33	20° 7	24°42	7°42	16°57	25°50	25°42	26°38	n.a.	F 17
S 18	15 29 13	22°47'42	17°21	3°18	7°44	1°36	7°36	20°12	24°40	7°42	16°58	25°49	25°38	26°45	n.a.	S 18
S 19	15 33 10	23°44'52	29°56	4°57	8°46	2°15	7°38	20°17	24°37	7°43	16°59	25°46	25°35	26°52	n.a.	S 19
M20	15 37 6	24°42'03	12♈54	6°40	9°49	2°55	7°40	20°22	24°35	7°44	17° 0	25°40	25°32	26°58	n.a.	M20
T 21	15 41 3	25°39'13	26°17	8°25	10°52	3°34	7°42	20°28	24°32	7°45	17° 1	25°32	25°29	27° 5	n.a.	T 21
W22	15 44 59	26°36'23	10♉ 5	10°13	11°56	4°13	7°44	20°33	24°30	7°46	17° 2	25°22	25°26	27°12	n.a.	W22
T 23	15 48 56	27°33'32	24°15	12° 3	12°59	4°53	7°46	20°39	24°28	7°46	17° 3	25°10	25°23	27°18	n.a.	T 23
F 24	15 52 52	28°30'42	8♊43	13°56	14° 3	5°32	7°47	20°44	24°25	7°47	17° 4	24°59	25°19	27°25	n.a.	F 24
S 25	15 56 49	29°27'51	23°21	15°52	15° 7	6°12	7°48	20°50	24°23	7°48	17° 5	24°49	25°16	27°32	n.a.	S 25
S 26	16 0 46	0♊25'00	8♋ 1	17°50	16°11	6°51	7°49	20°56	24°20	7°48	17° 7	24°41	25°13	27°38	n.a.	S 26
M27	16 4 42	1°22'08	22°38	19°50	17°16	7°30	7°50	21° 2	24°18	7°49	17° 8	24°36	25°10	27°45	n.a.	M27
T 28	16 8 39	2°19'16	7♌ 5	21°52	18°20	8° 9	7°51	21° 7	24°15	7°50	17° 9	24°33	25° 7	27°52	n.a.	T 28
W29	16 12 35	3°16'24	21°20	23°56	19°25	8°49	7°51	21°13	24°13	7°50	17°10	24°D32	25° 3	27°58	n.a.	W29
T 30	16 16 32	4°13'30	5♍21	26° 2	20°30	9°28	7°52	21°19	24°11	7°51	17°11	24°R33	25° 0	28° 5	n.a.	T 30
F 31	16 20 28	5♊10'37	19♍ 7	28♉10	21♈35	10♊ 7	7°R52	21♋25	24♏ 8	7♓51	17♈12	24♒32	24♒57	28♑12	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	13n52	19n13	1n28	2n 1	3s25	4s55	1s19	18n31	0n30	19s41	0s51	23n12	0n51	19s11	0n 8	10s12	1s25	7s42	15s30	12s32	12s49	24s 4			n.a.
T 2	14 11	13 44	0 15	2 18	3 26	4 37	1 23	18 42	0 31	19 40	0 51	23 11	0 51	19 11	0 8	10 12	1 25	7 41	15 30	12 32	12 50	24 2			n.a.
F 3	14 30	7 35	0s59	2 37	3 25	4 18	1 28	18 54	0 31	19 39	0 51	23 11	0 51	19 10	0 8	10 11	1 25	7 41	15 30	12 32	12 51	24 0			n.a.
S 4	14 48	1 9	2 8	2 58	3 25	3 58	1 32	19 4	0 32	19 38	0 52	23 10	0 51	19 10	0 8	10 11	1 25	7 40	15 30	12 33	12 52	23 58			n.a.
S 5	15 6	5s15	3 9	3 22	3 23	3 38	1 36	19 15	0 32	19 37	0 52	23 10	0 51	19 9	0 8	10 11	1 25	7 40	15 30	12 35	12 53	23 56			n.a.
M 6	15 24	11 20	3 59	3 47	3 21	3 18	1 40	19 26	0 33	19 36	0 52	23 9	0 51	19 9	0 8	10 10	1 25	7 40	15 30	12 37	12 54	23 54			n.a.
T 7	15 42	16 49	4 35	4 14	3 17	2 58	1 43	19 36	0 33	19 35	0 53	23 8	0 51	19 8	0 8	10 10	1 25	7 39	15 31	12 41	12 55	23 52			n.a.
W 8	16 0	21 26	4 55	4 43	3 14	2 37	1 47	19 47	0 34	19 35	0 53	23 8	0 51	19 8	0 8	10 9	1 25	7 39	15 31	12 45	12 56	23 50			n.a.
T 9	16 17	24 57	5 1	5 13	3 9	2 16	1 50	19 57	0 34	19 34	0 53	23 7	0 51	19 7	0 8	10 9	1 25	7 38	15 31	12 49	12 57	23 48			n.a.
F 10	16 34	27 10	4 51	5 45	3 4	1 55	1 53	20 7	0 35	19 33	0 53	23 6	0 51	19 6	0 8	10 9	1 25	7 38	15 31	12 53	12 58	23 46			n.a.
S 11	16 51	28 0	4 28	6 19	2 58	1 34	1 56	20 17	0 35	19 32	0 54	23 6	0 51	19 6	0 8	10 8	1 25	7 38	15 31	12 57	12 59	23 44			n.a.
S 12	17 7	27 28	3 53	6 54	2 52	1 12	1 59	20 26	0 36	19 32	0 54	23 5	0 51	19 5	0 8	10 8	1 25	7 37	15 31	13 0	13 1	23 42			n.a.
M13	17 24	25 39	3 8	7 30	2 45	0 50	2 2	20 36	0 36	19 31	0 54	23 4	0 51	19 5	0 8	10 7	1 26	7 37	15 31	13 2	13 2	23 40			n.a.
T 14	17 40	22 43	2 15	8 8	2 37	0 28	2 5	20 45	0 37	19 30	0 55	23 4	0 51	19 4	0 8	10 7	1 26	7 37	15 31	13 3	13 3	23 38			n.a.
W15	17 55	18 51	1 17	8 47	2 29	0 5	2 7	20 54	0 37	19 30	0 55	23 3	0 51	19 3	0 8	10 7	1 26	7 37	15 32	13 3	13 4	23 35			n.a.
T 16	18 11	14 13	0 15	9 27	2 21	0n18	2 9	21 3	0 38	19 29	0 55	23 2	0 51	19 3	0 8	10 6	1 26	7 36	15 32	13 3	13 5	23 33			n.a.
F 17	18 26	9 0	0n49	10 8	2 12	0 40	2 12	21 12	0 38	19 29	0 55	23 1	0 51	19 2	0 8	10 6	1 26	7 36	15 32	13 3	13 6	23 31			n.a.
S 18	18 41	3 21	1 51	10 50	2 2	1 3	2 14	21 21	0 39	19 29	0 56	23 1	0 51	19 2	0 8	10 6	1 26	7 36	15 32	13 4	13 7	23 29			n.a.
S 19	18 55	2n34	2 50	11 33	1 53	1 27	2 15	21 29	0 39	19 28	0 56	23 0	0 51	19 1	0 8	10 6	1 26	7 35	15 32	13 5	13 8	23 27			n.a.
M20	19 10	8 33	3 42	12 17	1 42	1 50	2 17	21 37	0 40	19 28	0 56	22 59	0 51	19 0	0 8	10 5	1 26	7 35	15 32	13 7	13 9	23 25			n.a.
T 21	19 23	14 20	4 23	13 1	1 32	2 13	2 19	21 46	0 40	19 28	0 57	22 58	0 51	19 0	0 8	10 5	1 26	7 35	15 33	13 9	13 10	23 23			n.a.
W22	19 37	19 35	4 50	13 46	1 21	2 37	2 20	21 54	0 40	19 28	0 57	22 57	0 51	18 59	0 8	10 5	1 26	7 35	15 33	13 13	13 11	23 21			n.a.
T 23	19 50	23 54	5 0	14 31	1 10	3 1	2 22	22 1	0 41	19 27	0 57	22 57	0 51	18 59	0 7	10 5	1 26	7 34	15 33	13 17	13 12	23 19			n.a.
F 24	20 3	26 49	4 52	15 16	0 59	3 25	2 23	22 9	0 41	19 27	0 57	22 56	0 51	18 58	0 7	10 4	1 26	7 34	15 33	13 21	13 14	23 17			n.a.
S 25	20 16	27 57	4 25	16 1	0 48	3 49	2 24	22 16	0 42	19 27	0 58	22 55	0 51	18 58	0 7	10 4	1 26	7 34	15 33	13 24	13 15	23 15			n.a.
S 26	20 28	27 7	3 39	16 46	0 36	4 13	2 25	22 24	0 42	19 27	0 58	22 54	0 51	18 57	0 7	10 4	1 26	7 34	15 33	13 27	13 16	23 12			n.a.
M27	20 40	24 25	2 40	17 30	0 25	4 37	2 26	22 31	0 43	19 27	0 58	22 53	0 51	18 56	0 7	10 4	1 26	7 34	15 34	13 28	13 17	23 10			n.a.
T 28	20 52	20 10	1 31	18 13	0 14	5 1	2 27	22 37	0 43	19 27	0 59	22 52	0 51	18 56	0 7	10 4	1 26	7 33	15 34	13 29	13 18	23 8			n.a.
W29	21 3	14 49	0 17	18 56	0 2	5 25	2 27	22 44	0 43	19 28	0 59	22 51	0 51	18 55	0 7	10 4	1 26	7 33	15 34	13 29	13 19	23 6			n.a.
T 30	21 14	8 46	0s57	19 37	0n 9	5 49	2 28	22 51	0 44	19 28	0 59	22 50	0 51	18 55	0 7	10 3	1 26	7 33	15 34	13 29	13 20	23 4			n.a.
F 31	21n24	2n25	2s 6	20n17	0n19	6n13	2s28	22n57	0n44	19s28	1s 0	22n49	0n51	18s54	0n 7	10s 3	1s27	7s33	15s34	13s30	13s21	23s 2			n.a.

Julian Day Number = 1679539.5, Delta T = 03h16m13s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'56, Lahiri = - 5°31'56 Julian Calendar 1 May 115 BCE == Greg. Calendar 28 Apr. 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

JUNE 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 25	6♊ 7'43	2♎40	0♊18	22♈41	10♊46	7°R52	21♋31	24°R 6	7♓52	17♈13	24°R30	24♒54	28♉18	n.a.	S 1
S 2	16 28 21	7° 4'49	16° 0	2°27	23°46	11°25	7♒51	21°37	24♏ 3	7°52	17°13	24♒25	24°51	28°25	n.a.	S 2
M 3	16 32 18	8° 1'54	29° 8	4°37	24°52	12° 4	7°51	21°44	24° 1	7°52	17°14	24°18	24°48	28°32	n.a.	M 3
T 4	16 36 15	8°59'00	12♏ 4	6°47	25°58	12°43	7°50	21°50	23°59	7°53	17°15	24° 8	24°44	28°38	n.a.	T 4
W 5	16 40 11	9°56'05	24°49	8°58	27° 4	13°22	7°49	21°56	23°56	7°53	17°16	23°56	24°41	28°45	n.a.	W 5
T 6	16 44 8	10°53'11	7♐21	11° 8	28°10	14° 1	7°48	22° 3	23°54	7°53	17°17	23°44	24°38	28°51	n.a.	T 6
F 7	16 48 4	11°50'17	19°42	13°17	29°16	14°40	7°47	22° 9	23°52	7°54	17°18	23°32	24°35	28°58	n.a.	F 7
S 8	16 52 1	12°47'23	1♑52	15°26	0♉23	15°19	7°45	22°15	23°49	7°54	17°19	23°22	24°32	29° 5	n.a.	S 8
S 9	16 55 57	13°44'29	13°53	17°34	1°29	15°58	7°44	22°22	23°47	7°54	17°20	23°13	24°29	29°11	n.a.	S 9
M10	16 59 54	14°41'36	25°45	19°41	2°36	16°37	7°42	22°28	23°45	7°54	17°20	23° 7	24°25	29°18	n.a.	M10
T 11	17 3 51	15°38'43	7♒34	21°46	3°43	17°16	7°40	22°35	23°43	7°54	17°21	23° 4	24°22	29°25	n.a.	T 11
W12	17 7 47	16°35'50	19°21	23°50	4°50	17°55	7°38	22°42	23°40	7°54	17°22	23°D 3	24°19	29°31	n.a.	W12
T 13	17 11 44	17°32'58	1♓13	25°53	5°57	18°34	7°35	22°48	23°38	7°54	17°23	23° 3	24°16	29°38	n.a.	T 13
F 14	17 15 40	18°30'07	13°14	27°54	7° 5	19°13	7°33	22°55	23°36	7°R54	17°24	23°R 4	24°13	29°45	n.a.	F 14
S 15	17 19 37	19°27'16	25°29	29°53	8°12	19°52	7°30	23° 2	23°34	7°54	17°24	23° 4	24° 9	29°51	n.a.	S 15
S 16	17 23 33	20°24'27	8♈ 3	1♋51	9°20	20°30	7°27	23° 8	23°32	7°54	17°25	23° 2	24° 6	29°58	n.a.	S 16
M17	17 27 30	21°21'37	21° 1	3°47	10°27	21° 9	7°24	23°15	23°30	7°54	17°26	22°59	24° 3	0♒ 5	n.a.	M17
T 18	17 31 26	22°18'49	4♉27	5°41	11°35	21°48	7°20	23°22	23°28	7°54	17°26	22°53	24° 0	0°11	n.a.	T 18
W19	17 35 23	23°16'02	18°20	7°33	12°43	22°27	7°17	23°29	23°26	7°54	17°27	22°45	23°57	0°18	n.a.	W19
T 20	17 39 20	24°13'15	2♊40	9°24	13°51	23° 6	7°13	23°36	23°24	7°54	17°28	22°36	23°54	0°25	n.a.	T 20
F 21	17 43 16	25°10'29	17°22	11°13	15° 0	23°44	7° 9	23°43	23°22	7°54	17°28	22°28	23°50	0°31	n.a.	F 21
S 22	17 47 13	26° 7'44	2♋18	13° 0	16° 8	24°23	7° 5	23°50	23°20	7°53	17°29	22°20	23°47	0°38	n.a.	S 22
S 23	17 51 9	27° 4'59	17°19	14°45	17°16	25° 2	7° 1	23°57	23°18	7°53	17°30	22°14	23°44	0°45	n.a.	S 23
M24	17 55 6	28° 2'15	2♌17	16°28	18°25	25°40	6°57	24° 4	23°16	7°53	17°30	22°10	23°41	0°51	n.a.	M24
T 25	17 59 2	28°59'32	17° 3	18°10	19°34	26°19	6°52	24°11	23°14	7°53	17°31	22°D 9	23°38	0°58	n.a.	T 25
W26	18 2 59	29°56'49	1♍33	19°50	20°42	26°58	6°47	24°19	23°12	7°52	17°31	22° 9	23°35	1° 5	n.a.	W26
T 27	18 6 55	0♋54'06	15°42	21°28	21°51	27°36	6°42	24°26	23°11	7°52	17°32	22°10	23°31	1°11	n.a.	T 27
F 28	18 10 52	1°51'24	29°31	23° 4	23° 0	28°15	6°37	24°33	23° 9	7°51	17°32	22°R10	23°28	1°18	n.a.	F 28
S 29	18 14 49	2°48'43	12♎59	24°38	24° 9	28°53	6°32	24°40	23° 7	7°51	17°33	22°10	23°25	1°25	n.a.	S 29
S 30	18 18 45	3♋46'02	26♎10	26♋11	25♉18	29♊32	6♒27	24♋47	23♏ 6	7♓50	17♈33	22♒ 8	23♒22	1♒31	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n35	3s56	3s 7	20n56	0n30	6n38	2s28	23n 3	0n45	19s28	1s 0	22n48	0n51	18s53	0n 7	10s 3	1s27	7s33	15s35	13s30	13s22	23s 0		n.a.
S 2	21 44	10 0	3 57	21 32	0 39	7 2	2 28	23 9	0 45	19 29	1 0	22 48	0 51	18 53	0 7	10 3	1 27	7 32	15 35	13 32	13 23	22 58		n.a.
M 3	21 54	15 32	4 33	22 6	0 49	7 26	2 29	23 15	0 46	19 29	1 0	22 47	0 51	18 52	0 7	10 3	1 27	7 32	15 35	13 34	13 24	22 55		n.a.
T 4	22 3	20 18	4 55	22 38	0 58	7 50	2 28	23 20	0 46	19 30	1 1	22 46	0 51	18 52	0 7	10 3	1 27	7 32	15 35	13 38	13 25	22 53		n.a.
W 5	22 12	24 3	5 1	23 8	1 6	8 14	2 28	23 26	0 46	19 30	1 1	22 45	0 51	18 51	0 7	10 3	1 27	7 32	15 36	13 42	13 26	22 51		n.a.
T 6	22 20	26 36	4 53	23 35	1 14	8 38	2 28	23 31	0 47	19 31	1 1	22 44	0 51	18 51	0 7	10 3	1 27	7 32	15 36	13 46	13 28	22 49		n.a.
F 7	22 28	27 48	4 31	23 59	1 21	9 2	2 28	23 36	0 47	19 31	1 2	22 43	0 51	18 50	0 7	10 3	1 27	7 32	15 36	13 50	13 29	22 47		n.a.
S 8	22 35	27 39	3 57	24 21	1 27	9 26	2 27	23 41	0 48	19 32	1 2	22 42	0 51	18 49	0 7	10 3	1 27	7 32	15 36	13 53	13 30	22 44		n.a.
S 9	22 42	26 10	3 12	24 40	1 33	9 50	2 26	23 46	0 48	19 33	1 2	22 40	0 51	18 49	0 7	10 3	1 27	7 32	15 37	13 56	13 31	22 42		n.a.
M10	22 49	23 31	2 20	24 56	1 38	10 14	2 26	23 50	0 48	19 34	1 3	22 39	0 51	18 48	0 7	10 3	1 27	7 32	15 37	13 58	13 32	22 40		n.a.
T 11	22 56	19 54	1 22	25 9	1 42	10 38	2 25	23 54	0 49	19 34	1 3	22 38	0 51	18 48	0 7	10 3	1 27	7 31	15 37	13 59	13 33	22 38		n.a.
W12	23 2	15 30	0 20	25 20	1 46	11 1	2 24	23 58	0 49	19 35	1 3	22 37	0 51	18 47	0 7	10 3	1 27	7 31	15 37	13 59	13 34	22 36		n.a.
T 13	23 7	10 29	0n44	25 27	1 49	11 24	2 23	24 2	0 50	19 36	1 3	22 36	0 51	18 47	0 7	10 3	1 27	7 31	15 38	13 59	13 35	22 33		n.a.
F 14	23 12	5 2	1 46	25 32	1 51	11 48	2 22	24 6	0 50	19 37	1 4	22 35	0 51	18 46	0 7	10 3	1 27	7 31	15 38	13 59	13 36	22 31		n.a.
S 15	23 17	0n41	2 44	25 35	1 52	12 11	2 21	24 9	0 50	19 38	1 4	22 34	0 51	18 46	0 7	10 3	1 27	7 31	15 38	13 59	13 37	22 29		n.a.
S 16	23 22	6 32	3 36	25 35	1 53	12 34	2 20	24 13	0 51	19 39	1 4	22 33	0 52	18 45	0 7	10 3	1 27	7 31	15 38	14 0	13 38	22 27		n.a.
M17	23 26	12 17	4 19	25 33	1 53	12 56	2 18	24 16	0 51	19 40	1 5	22 32	0 52	18 45	0 7	10 3	1 27	7 31	15 39	14 1	13 39	22 25		n.a.
T 18	23 29	17 41	4 50	25 28	1 53	13 19	2 17	24 19	0 52	19 41	1 5	22 31	0 52	18 44	0 7	10 3	1 28	7 31	15 39	14 3	13 40	22 22		n.a.
W19	23 32	22 20	5 4	25 21	1 52	13 41	2 15	24 21	0 52	19 43	1 5	22 29	0 52	18 44	0 7	10 3	1 28	7 31	15 39	14 5	13 41	22 20		n.a.
T 20	23 35	25 50	5 0	25 12	1 50	14 3	2 14	24 24	0 52	19 44	1 5	22 28	0 52	18 43	0 7	10 3	1 28	7 31	15 39	14 8	13 42	22 18		n.a.
F 21	23 37	27 42	4 37	25 1	1 48	14 25	2 12	24 26	0 53	19 45	1 6	22 27	0 52	18 43	0 7	10 3	1 28	7 31	15 40	14 11	13 44	22 16		n.a.
S 22	23 39	27 36	3 55	24 48	1 45	14 46	2 10	24 28	0 53	19 46	1 6	22 26	0 52	18 42	0 7	10 4	1 28	7 31	15 40	14 14	13 45	22 13		n.a.
S 23	23 41	25 29	2 56	24 34	1 41	15 8	2 9	24 30	0 53	19 48	1 6	22 25	0 52	18 42	0 7	10 4	1 28	7 31	15 40	14 16	13 46	22 11		n.a.
M24	23 42	21 34	1 45	24 18	1 37	15 29	2 7	24 32	0 54	19 49	1 7	22 23	0 52	18 41	0 7	10 4	1 28	7 31	15 40	14 17	13 47	22 9		n.a.
T 25	23 42	16 20	0 27	24 0	1 33	15 49	2 5	24 34	0 54	19 51	1 7	22 22	0 52	18 41	0 7	10 4	1 28	7 31	15 41	14 17	13 48	22 6		n.a.
W26	23 43	10 16	0s50	23 41	1 28	16 10	2 3	24 35	0 54	19 52	1 7	22 21	0 52	18 40	0 7	10 4	1 28	7 31	15 41	14 17	13 49	22 4		n.a.
T 27	23 42	3 48	2 3	23 21	1 23	16 30	2 1	24 36	0 55	19 54	1 7	22 20	0 52	18 40	0 7	10 4	1 28	7 32	15 41	14 17	13 50	22 2		n.a.
F 28	23 42	2s40	3 7	22 59	1 17	16 49	1 58	24 37	0 55	19 55	1 8	22 18	0 52	18 39	0 7	10 5	1 28	7 32	15 42	14 17	13 51	22 0		n.a.
S 29	23 41	8 51	3 59	22 36	1 11	17 9	1 56	24 38	0 56	19 57	1 8	22 17	0 52	18 39	0 7	10 5	1 28	7 32	15 42	14 17	13 52	21 57		n.a.
S 30	23n39	14s30	4s37	22n12	1n 4	17n28	1s54	24n38	0n56	19s58	1s 8	22n16	0n52	18s39	0n 7	10s 5	1s28	7s32	15s42	14s18	13s53	21s55		n.a.

Julian Day Number = 1679570.5, Delta T = 03h16m12s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'52, Lahiri = - 5°31'52 Julian Calendar 1 June 115 BCE == Greg. Calendar 29 May 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

JULY 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 22 42	4♋43'21	9♏ 4	27♋42	26♉28	0♋10	6°R21	24♋55	23°R 4	7°R50	17♈34	22°R 3	23♒19	1♒38	n.a.	M 1
T 2	18 26 38	5°40'42	21°44	29°11	27°37	0°49	6♒16	25° 2	23♏ 2	7♓49	17°34	21♒57	23°15	1°45	n.a.	T 2
W 3	18 30 35	6°38'04	4♐12	0♌38	28°47	1°27	6°10	25° 9	23° 1	7°49	17°34	21°50	23°12	1°51	n.a.	W 3
T 4	18 34 31	7°35'26	16°29	2° 4	29°56	2° 6	6° 4	25°17	22°59	7°48	17°35	21°42	23° 9	1°58	n.a.	T 4
F 5	18 38 28	8°32'49	28°37	3°27	1♊ 6	2°44	5°58	25°24	22°58	7°48	17°35	21°34	23° 6	2° 5	n.a.	F 5
S 6	18 42 25	9°30'14	10♑37	4°49	2°16	3°23	5°52	25°32	22°56	7°47	17°35	21°27	23° 3	2°11	n.a.	S 6
S 7	18 46 21	10°27'39	22°31	6° 9	3°26	4° 1	5°45	25°39	22°55	7°46	17°36	21°22	23° 0	2°18	n.a.	S 7
M 8	18 50 18	11°25'06	4♒20	7°26	4°35	4°40	5°39	25°46	22°54	7°45	17°36	21°18	22°56	2°25	n.a.	M 8
T 9	18 54 14	12°22'34	16° 7	8°42	5°46	5°18	5°32	25°54	22°52	7°45	17°36	21°D17	22°53	2°31	n.a.	T 9
W10	18 58 11	13°20'03	27°55	9°56	6°56	5°57	5°25	26° 1	22°51	7°44	17°37	21°17	22°50	2°38	n.a.	W10
T 11	19 2 7	14°17'33	9♓48	11° 7	8° 6	6°35	5°19	26° 9	22°50	7°43	17°37	21°18	22°47	2°45	n.a.	T 11
F 12	19 6 4	15°15'05	21°50	12°16	9°16	7°13	5°12	26°16	22°49	7°42	17°37	21°20	22°44	2°51	n.a.	F 12
S 13	19 10 0	16°12'39	4♈ 5	13°23	10°27	7°52	5° 5	26°24	22°47	7°41	17°37	21°21	22°41	2°58	n.a.	S 13
S 14	19 13 57	17°10'14	16°37	14°28	11°37	8°30	4°58	26°32	22°46	7°41	17°37	21°R22	22°37	3° 4	n.a.	S 14
M15	19 17 54	18° 7'50	29°32	15°30	12°48	9° 8	4°50	26°39	22°45	7°40	17°38	21°21	22°34	3°11	n.a.	M15
T 16	19 21 50	19° 5'29	12♉53	16°29	13°59	9°47	4°43	26°47	22°44	7°39	17°38	21°19	22°31	3°18	n.a.	T 16
W17	19 25 47	20° 3'09	26°42	17°25	15° 9	10°25	4°36	26°54	22°43	7°38	17°38	21°16	22°28	3°24	n.a.	W17
T 18	19 29 43	21° 0'51	10♊59	18°19	16°20	11° 3	4°28	27° 2	22°42	7°37	17°38	21°12	22°25	3°31	n.a.	T 18
F 19	19 33 40	21°58'34	25°41	19°10	17°31	11°42	4°21	27° 9	22°42	7°36	17°38	21° 8	22°21	3°38	n.a.	F 19
S 20	19 37 36	22°56'19	10♋41	19°57	18°42	12°20	4°13	27°17	22°41	7°35	17°38	21° 4	22°18	3°44	n.a.	S 20
S 21	19 41 33	23°54'06	25°52	20°41	19°53	12°58	4° 6	27°25	22°40	7°34	17°38	21° 1	22°15	3°51	n.a.	S 21
M22	19 45 29	24°51'54	11♌ 3	21°21	21° 5	13°36	3°58	27°32	22°39	7°32	17°R38	21° 0	22°12	3°58	n.a.	M22
T 23	19 49 26	25°49'44	26° 5	21°57	22°16	14°15	3°50	27°40	22°39	7°31	17°38	21°D 0	22° 9	4° 4	n.a.	T 23
W24	19 53 23	26°47'34	10♍50	22°30	23°27	14°53	3°42	27°47	22°38	7°30	17°38	21° 0	22° 6	4°11	n.a.	W24
T 25	19 57 19	27°45'27	25°13	22°58	24°39	15°31	3°35	27°55	22°37	7°29	17°38	21° 2	22° 2	4°18	n.a.	T 25
F 26	20 1 16	28°43'20	9♎11	23°21	25°50	16° 9	3°27	28° 3	22°37	7°28	17°38	21° 3	21°59	4°24	n.a.	F 26
S 27	20 5 12	29°41'15	22°45	23°40	27° 2	16°48	3°19	28°10	22°36	7°27	17°38	21° 4	21°56	4°31	n.a.	S 27
S 28	20 9 9	0♌39'11	5♏55	23°54	28°13	17°26	3°11	28°18	22°36	7°25	17°38	21°R 4	21°53	4°38	n.a.	S 28
M29	20 13 5	1°37'09	18°44	24° 2	29°25	18° 4	3° 3	28°26	22°36	7°24	17°37	21° 3	21°50	4°44	n.a.	M29
T 30	20 17 2	2°35'08	1♐16	24°R 5	0♋37	18°42	2°55	28°33	22°35	7°23	17°37	21° 1	21°47	4°51	n.a.	T 30
W31	20 20 58	3♌33'09	13♐34	24♌ 2	1♋49	19♋20	2♒47	28♋41	22♏35	7♓21	17♈37	20♒59	21♒43	4♒58	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	23n38	19s25	5s 0	21n48	0n58	17n46	1s52	24n39	0n56	20s 0	1s 8	22n15	0n52	18s38	0n 7	10s 5	1s28	7s32	15s42	14s19	13s54	21s53			n.a.
T 2	23 35	23 21	5 8	21 22	0 50	18 5	1 49	24 39	0 57	20 2	1 9	22 13	0 52	18 38	0 7	10 6	1 28	7 32	15 43	14 21	13 55	21 50			n.a.
W 3	23 33	26 9	5 1	20 56	0 43	18 23	1 47	24 39	0 57	20 3	1 9	22 12	0 52	18 37	0 7	10 6	1 28	7 32	15 43	14 23	13 56	21 48			n.a.
T 4	23 29	27 40	4 40	20 29	0 35	18 40	1 44	24 39	0 57	20 5	1 9	22 11	0 52	18 37	0 7	10 6	1 28	7 32	15 43	14 26	13 57	21 46			n.a.
F 5	23 26	27 49	4 7	20 2	0 26	18 57	1 42	24 39	0 58	20 7	1 9	22 9	0 52	18 37	0 7	10 6	1 28	7 32	15 44	14 29	13 58	21 43			n.a.
S 6	23 22	26 39	3 23	19 34	0 18	19 14	1 39	24 38	0 58	20 9	1 10	22 8	0 52	18 36	0 7	10 7	1 29	7 33	15 44	14 31	13 59	21 41			n.a.
S 7	23 18	24 16	2 30	19 5	0 9	19 30	1 37	24 37	0 58	20 10	1 10	22 7	0 53	18 36	0 7	10 7	1 29	7 33	15 44	14 32	14 0	21 39			n.a.
M 8	23 13	20 52	1 31	18 37	0s 1	19 46	1 34	24 36	0 59	20 12	1 10	22 5	0 53	18 36	0 7	10 7	1 29	7 33	15 45	14 34	14 1	21 36			n.a.
T 9	23 8	16 38	0 28	18 8	0 10	20 1	1 31	24 35	0 59	20 14	1 10	22 4	0 53	18 35	0 7	10 8	1 29	7 33	15 45	14 34	14 3	21 34			n.a.
W10	23 2	11 46	0n36	17 39	0 20	20 16	1 28	24 34	0 59	20 16	1 10	22 3	0 53	18 35	0 7	10 8	1 29	7 33	15 45	14 34	14 4	21 32			n.a.
T 11	22 56	6 27	1 39	17 10	0 30	20 30	1 26	24 32	1 0	20 18	1 11	22 1	0 53	18 35	0 7	10 8	1 29	7 33	15 45	14 34	14 5	21 29			n.a.
F 12	22 50	0 51	2 39	16 41	0 40	20 44	1 23	24 30	1 0	20 20	1 11	22 0	0 53	18 34	0 7	10 9	1 29	7 34	15 46	14 33	14 6	21 27			n.a.
S 13	22 43	4n53	3 33	16 12	0 50	20 57	1 20	24 29	1 0	20 22	1 11	21 59	0 53	18 34	0 7	10 9	1 29	7 34	15 46	14 33	14 7	21 25			n.a.
S 14	22 36	10 33	4 17	15 43	1 0	21 10	1 17	24 26	1 1	20 24	1 11	21 57	0 53	18 34	0 7	10 10	1 29	7 34	15 46	14 32	14 8	21 22			n.a.
M15	22 28	15 57	4 51	15 14	1 11	21 22	1 14	24 24	1 1	20 26	1 12	21 56	0 53	18 34	0 7	10 10	1 29	7 34	15 47	14 33	14 9	21 20			n.a.
T 16	22 20	20 47	5 10	14 46	1 22	21 34	1 11	24 22	1 1	20 28	1 12	21 54	0 53	18 33	0 7	10 10	1 29	7 35	15 47	14 33	14 10	21 17			n.a.
W17	22 12	24 41	5 12	14 19	1 33	21 45	1 8	24 19	1 1	20 30	1 12	21 53	0 53	18 33	0 7	10 11	1 29	7 35	15 47	14 34	14 11	21 15			n.a.
T 18	22 3	27 12	4 55	13 52	1 44	21 55	1 5	24 16	1 2	20 32	1 12	21 52	0 53	18 33	0 7	10 11	1 29	7 35	15 48	14 36	14 12	21 13			n.a.
F 19	21 54	27 56	4 18	13 26	1 55	22 5	1 2	24 13	1 2	20 34	1 12	21 50	0 53	18 33	0 7	10 12	1 29	7 35	15 48	14 37	14 13	21 10			n.a.
S 20	21 44	26 39	3 23	13 0	2 6	22 14	0 59	24 10	1 2	20 36	1 12	21 49	0 53	18 32	0 7	10 12	1 29	7 36	15 48	14 38	14 14	21 8			n.a.
S 21	21 34	23 24	2 14	12 36	2 17	22 23	0 56	24 7	1 3	20 38	1 13	21 47	0 53	18 32	0 7	10 12	1 29	7 36	15 48	14 39	14 15	21 5			n.a.
M22	21 24	18 32	0 54	12 13	2 28	22 31	0 53	24 3	1 3	20 40	1 13	21 46	0 54	18 32	0 7	10 13	1 29	7 36	15 49	14 40	14 16	21 3			n.a.
T 23	21 13	12 32	0s28	11 51	2 39	22 39	0 50	23 59	1 3	20 42	1 13	21 44	0 54	18 32	0 7	10 13	1 29	7 36	15 49	14 40	14 17	21 1			n.a.
W24	21 2	5 56	1 47	11 30	2 50	22 46	0 47	23 55	1 4	20 44	1 13	21 43	0 54	18 32	0 7	10 14	1 29	7 37	15 49	14 39	14 18	20 58			n.a.
T 25	20 51	0s47	2 58	11 11	3 0	22 52	0 44	23 51	1 4	20 46	1 13	21 41	0 54	18 32	0 7	10 14	1 29	7 37	15 50	14 39	14 19	20 56			n.a.
F 26	20 39	7 17	3 55	10 53	3 11	22 58	0 41	23 47	1 4	20 48	1 13	21 40	0 54	18 32	0 7	10 15	1 29	7 37	15 50	14 39	14 20	20 53			n.a.
S 27	20 27	13 14	4 38	10 37	3 21	23 3	0 38	23 42	1 4	20 50	1 14	21 39	0 54	18 31	0 7	10 15	1 30	7 38	15 50	14 38	14 21	20 51			n.a.
S 28	20 14	18 25	5 5	10 24	3 31	23 7	0 35	23 38	1 5	20 52	1 14	21 37	0 54	18 31	0 7	10 16	1 30	7 38	15 51	14 38	14 22	20 48			n.a.
M29	20 1	22 38	5 15	10 12	3 40	23 11	0 32	23 33	1 5	20 54	1 14	21 36	0 54	18 31	0 7	10 16	1 30	7 38	15 51	14 39	14 23	20 46			n.a.
T 30	19 48	25 43	5 11	10 3	3 48	23 14	0 28	23 28	1 5	20 56	1 14	21 34	0 54	18 31	0 7	10 17	1 30	7 39	15 51	14 39	14 24	20 44			n.a.
W31	19n35	27s30	4s52	9n57	3s56	23n17	0s25	23n23	1n 6	20s58	1s14	21n33	0n54	18s31	0n 7	10s17	1s30	7s39	15s51	14s40	14s25	20s41			n.a.

Julian Day Number = 1679600.5, Delta T = 03h16m11s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'48, Lahiri = - 5°31'47 Julian Calendar 1 July 115 BCE == Greg. Calendar 28 June 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

AUGUST 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 24 55	4♌31'11	25♐40	23°R53	3♋ 1	19♋58	2°R39	28♋48	22°R35	7°R20	17°R37	20°R57	21♒40	5♒ 4	n.a.	T 1
F 2	20 28 52	5°29'15	7♑38	23♌38	4°13	20°37	2♒32	28°56	22♏35	7♓19	17♈37	20♒54	21°37	5°11	n.a.	F 2
S 3	20 32 48	6°27'20	19°31	23°16	5°25	21°15	2°24	29° 3	22°34	7°17	17°36	20°52	21°34	5°18	n.a.	S 3
S 4	20 36 45	7°25'27	1♒20	22°49	6°37	21°53	2°16	29°11	22°34	7°16	17°36	20°51	21°31	5°24	n.a.	S 4
M 5	20 40 41	8°23'36	13° 8	22°15	7°50	22°31	2° 8	29°19	22°D34	7°15	17°36	20°50	21°27	5°31	n.a.	M 5
T 6	20 44 38	9°21'47	24°57	21°35	9° 2	23° 9	2° 0	29°26	22°34	7°13	17°36	20°D50	21°24	5°38	n.a.	T 6
W 7	20 48 34	10°19'59	6♓50	20°50	10°14	23°47	1°52	29°34	22°34	7°12	17°35	20°50	21°21	5°44	n.a.	W 7
T 8	20 52 31	11°18'14	18°48	20° 0	11°27	24°25	1°45	29°41	22°35	7°10	17°35	20°51	21°18	5°51	n.a.	T 8
F 9	20 56 27	12°16'30	0♈56	19° 6	12°39	25° 3	1°37	29°49	22°35	7° 9	17°34	20°52	21°15	5°57	n.a.	F 9
S 10	21 0 24	13°14'49	13°15	18° 9	13°52	25°41	1°29	29°56	22°35	7° 7	17°34	20°53	21°12	6° 4	n.a.	S 10
S 11	21 4 21	14°13'10	25°50	17° 9	15° 5	26°19	1°22	0♌ 4	22°35	7° 6	17°34	20°53	21° 8	6°11	n.a.	S 11
M12	21 8 17	15°11'33	8♉44	16° 9	16°17	26°58	1°14	0°11	22°36	7° 4	17°33	20°54	21° 5	6°17	n.a.	M12
T 13	21 12 14	16° 9'59	22° 0	15° 8	17°30	27°36	1° 7	0°19	22°36	7° 3	17°33	20°R54	21° 2	6°24	n.a.	T 13
W14	21 16 10	17° 8'26	5♊40	14°10	18°43	28°14	1° 0	0°26	22°36	7° 1	17°32	20°54	20°59	6°31	n.a.	W14
T 15	21 20 7	18° 6'56	19°45	13°15	19°56	28°52	0°52	0°33	22°37	7° 0	17°32	20°53	20°56	6°37	n.a.	T 15
F 16	21 24 3	19° 5'29	4♋14	12°24	21° 9	29°30	0°45	0°41	22°37	6°58	17°31	20°53	20°53	6°44	n.a.	F 16
S 17	21 28 0	20° 4'03	19° 4	11°39	22°22	0♌ 8	0°38	0°48	22°38	6°57	17°31	20°53	20°49	6°51	n.a.	S 17
S 18	21 31 56	21° 2'40	4♌ 7	11° 1	23°35	0°46	0°31	0°55	22°39	6°55	17°30	20°D53	20°46	6°57	n.a.	S 18
M19	21 35 53	22° 1'19	19°17	10°31	24°49	1°24	0°24	1° 3	22°39	6°53	17°30	20°R53	20°43	7° 4	n.a.	M19
T 20	21 39 50	22°59'59	4♍23	10° 9	26° 2	2° 2	0°18	1°10	22°40	6°52	17°29	20°53	20°40	7°11	n.a.	T 20
W21	21 43 46	23°58'42	19°16	9°57	27°15	2°40	0°11	1°17	22°41	6°50	17°29	20°53	20°37	7°17	n.a.	W21
T 22	21 47 43	24°57'27	3♎50	9°D55	28°29	3°18	0° 5	1°24	22°42	6°49	17°28	20°52	20°33	7°24	n.a.	T 22
F 23	21 51 39	25°56'13	18° 0	10° 2	29°42	3°56	29♑58	1°32	22°43	6°47	17°27	20°52	20°30	7°31	n.a.	F 23
S 24	21 55 36	26°55'01	1♏42	10°19	0♌56	4°34	29°52	1°39	22°44	6°45	17°27	20°51	20°27	7°37	n.a.	S 24
S 25	21 59 32	27°53'52	14°58	10°45	2° 9	5°12	29°46	1°46	22°45	6°44	17°26	20°51	20°24	7°44	n.a.	S 25
M26	22 3 29	28°52'44	27°49	11°21	3°23	5°50	29°40	1°53	22°46	6°42	17°25	20°D51	20°21	7°51	n.a.	M26
T 27	22 7 25	29°51'38	10♐20	12° 5	4°37	6°28	29°34	2° 0	22°47	6°40	17°25	20°51	20°18	7°57	n.a.	T 27
W28	22 11 22	0♍50'33	22°33	12°58	5°50	7° 6	29°28	2° 7	22°48	6°39	17°24	20°51	20°14	8° 4	n.a.	W28
T 29	22 15 18	1°49'31	4♑34	13°59	7° 4	7°44	29°23	2°14	22°49	6°37	17°23	20°52	20°11	8°10	n.a.	T 29
F 30	22 19 15	2°48'30	16°27	15° 6	8°18	8°22	29°17	2°21	22°50	6°35	17°22	20°53	20° 8	8°17	n.a.	F 30
S 31	22 23 12	3♍47'32	28♑16	16♌20	9♌32	8♌59	29♑12	2♌28	22♏52	6♓34	17♈22	20♒55	20♒ 5	8♒24	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat	
T 1	19n21	27s58	4s20	9n53	4s 4	23n18	0s22	23n17	1n 6	20s59	1s14	21n31	0n54	18s31	0n 7	10s18	1s30	7s39	15s52	14s41	14s26	20s39			n.a.	T 1
F 2	19 7	27 6	3 37	9 52	4 10	23 19	0 19	23 12	1 6	21 1	1 14	21 30	0 54	18 31	0 7	10 18	1 30	7 40	15 52	14 41	14 28	20 36			n.a.	F 2
S 3	18 52	25 0	2 45	9 54	4 15	23 20	0 16	23 6	1 6	21 3	1 14	21 28	0 55	18 31	0 7	10 19	1 30	7 40	15 52	14 42	14 29	20 34			n.a.	S 3
S 4	18 37	21 49	1 46	10 0	4 19	23 20	0 13	23 0	1 7	21 5	1 14	21 27	0 55	18 31	0 7	10 20	1 30	7 40	15 53	14 43	14 30	20 31			n.a.	S 4
M 5	18 22	17 45	0 43	10 8	4 21	23 19	0 10	22 54	1 7	21 7	1 15	21 25	0 55	18 31	0 6	10 20	1 30	7 41	15 53	14 43	14 31	20 29			n.a.	M 5
T 6	18 7	13 0	0n23	10 20	4 22	23 17	0 7	22 48	1 7	21 9	1 15	21 24	0 55	18 31	0 6	10 21	1 30	7 41	15 53	14 43	14 32	20 26			n.a.	T 6
W 7	17 51	7 45	1 28	10 35	4 21	23 15	0 4	22 42	1 7	21 11	1 15	21 22	0 55	18 31	0 6	10 21	1 30	7 42	15 54	14 43	14 33	20 24			n.a.	W 7
T 8	17 35	2 12	2 29	10 53	4 19	23 12	0 1	22 35	1 8	21 13	1 15	21 21	0 55	18 31	0 6	10 22	1 30	7 42	15 54	14 42	14 34	20 21			n.a.	T 8
F 9	17 19	3n30	3 25	11 15	4 14	23 8	0n 2	22 29	1 8	21 14	1 15	21 19	0 55	18 31	0 6	10 22	1 30	7 42	15 54	14 42	14 35	20 19			n.a.	F 9
S 10	17 2	9 9	4 12	11 38	4 8	23 4	0 5	22 22	1 8	21 16	1 15	21 18	0 55	18 31	0 6	10 23	1 30	7 43	15 54	14 42	14 36	20 16			n.a.	S 10
S 11	16 45	14 33	4 48	12 4	3 59	22 59	0 8	22 15	1 8	21 18	1 15	21 16	0 55	18 31	0 6	10 24	1 30	7 43	15 55	14 42	14 37	20 14			n.a.	S 11
M12	16 28	19 28	5 11	12 33	3 49	22 53	0 11	22 8	1 9	21 20	1 15	21 15	0 55	18 32	0 6	10 24	1 30	7 44	15 55	14 42	14 38	20 11			n.a.	M12
T 13	16 10	23 35	5 18	13 2	3 36	22 46	0 13	22 0	1 9	21 21	1 15	21 13	0 56	18 32	0 6	10 25	1 30	7 44	15 55	14 42	14 39	20 9			n.a.	T 13
W14	15 52	26 32	5 7	13 32	3 22	22 39	0 16	21 53	1 9	21 23	1 15	21 11	0 56	18 32	0 6	10 25	1 30	7 44	15 55	14 42	14 40	20 6			n.a.	W14
T 15	15 34	27 56	4 38	14 3	3 7	22 32	0 19	21 45	1 9	21 25	1 15	21 10	0 56	18 32	0 6	10 26	1 30	7 45	15 56	14 42	14 41	20 4			n.a.	T 15
F 16	15 16	27 30	3 51	14 34	2 50	22 23	0 22	21 37	1 10	21 26	1 15	21 8	0 56	18 32	0 6	10 27	1 30	7 45	15 56	14 42	14 42	20 1			n.a.	F 16
S 17	14 58	25 6	2 48	15 3	2 32	22 14	0 25	21 29	1 10	21 28	1 15	21 7	0 56	18 32	0 6	10 27	1 30	7 46	15 56	14 42	14 43	19 59			n.a.	S 17
S 18	14 39	20 56	1 32	15 32	2 13	22 4	0 27	21 21	1 10	21 29	1 15	21 5	0 56	18 32	0 6	10 28	1 30	7 46	15 56	14 42	14 44	19 56			n.a.	S 18
M19	14 20	15 21	0 9	15 59	1 54	21 54	0 30	21 13	1 10	21 31	1 15	21 4	0 56	18 33	0 6	10 28	1 30	7 47	15 57	14 42	14 45	19 54			n.a.	M19
T 20	14 0	8 52	1s14	16 23	1 34	21 43	0 32	21 5	1 11	21 32	1 15	21 2	0 56	18 33	0 6	10 29	1 30	7 47	15 57	14 42	14 46	19 51			n.a.	T 20
W21	13 41	1 58	2 31	16 45	1 15	21 31	0 35	20 56	1 11	21 34	1 15	21 1	0 56	18 33	0 6	10 30	1 30	7 47	15 57	14 42	14 47	19 48			n.a.	W21
T 22	13 21	4s51	3 37	17 4	0 56	21 19	0 38	20 48	1 11	21 35	1 15	20 59	0 57	18 33	0 6	10 30	1 30	7 48	15 57	14 42	14 48	19 46			n.a.	T 22
F 23	13 1	11 14	4 27	17 20	0 38	21 6	0 40	20 39	1 11	21 37	1 15	20 58	0 57	18 33	0 6	10 31	1 30	7 48	15 58	14 42	14 49	19 43			n.a.	F 23
S 24	12 41	16 53	5 0	17 32	0 20	20 52	0 42	20 30	1 12	21 38	1 15	20 56	0 57	18 34	0 6	10 32	1 30	7 49	15 58	14 42	14 50	19 41			n.a.	S 24
S 25	12 20	21 32	5 16	17 41	0 3	20 38	0 45	20 21	1 12	21 39	1 15	20 55	0 57	18 34	0 6	10 32	1 30	7 49	15 58	14 43	14 51	19 38			n.a.	S 25
M26	12 0	25 1	5 15	17 47	0n13	20 23	0 47	20 11	1 12	21 40	1 15	20 53	0 57	18 34	0 6	10 33	1 30	7 50	15 58	14 43	14 52	19 36			n.a.	M26
T 27	11 39	27 11	4 59	17 48	0 28	20 8	0 49	20 2	1 12	21 42	1 15	20 52	0 57	18 35	0 6	10 33	1 30	7 50	15 59	14 43	14 53	19 33			n.a.	T 27
W28	11 18	28 0	4 30	17 46	0 41	19 51	0 52	19 53	1 13	21 43	1 15	20 50	0 57	18 35	0 6	10 34	1 30	7 51	15 59	14 42	14 54	19 30			n.a.	W28
T 29	10 57	27 28	3 50	17 41	0 54	19 35	0 54	19 43	1 13	21 44	1 15	20 49	0 57	18 35	0 6	10 35	1 30	7 51	15 59	14 42	14 55	19 28			n.a.	T 29
F 30	10 35	25 39	3 0	17 31	1 5	19 18	0 56	19 33	1 13	21 45	1 15	20 48	0 58	18 36	0 6	10 35	1 30	7 52	15 59	14 42	14 56	19 25			n.a.	F 30
S 31	10n14	22s44	2s 2	17n19	1n15	19n 0	0n58	19n23	1n13	21s46	1s15	20n46	0n58	18s36	0n 6	10s36	1s30	7s52	16s 0	14s41	14s57	19s23			n.a.	S 31

Julian Day Number = 1679631.5, Delta T = 03h16m10s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'44, Lahiri = - 5°31'43 Julian Calendar 1 Aug. 115 BCE == Greg. Calendar 29 July 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

SEPTEMBER 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 27 8	4♍46'35	10♒ 4	17♌39	10♌46	9♌37	29°R 7	2♌35	22♏53	6°R32	17°R21	20♒55	20♒ 2	8♒30	n.a.	S 1
M 2	22 31 5	5°45'41	21°54	19° 3	12° 0	10°15	29♋ 2	2°42	22°54	6♓30	17♈20	20°R56	19°59	8°37	n.a.	M 2
T 3	22 35 1	6°44'48	3♓48	20°32	13°14	10°53	28°57	2°48	22°56	6°29	17°19	20°55	19°55	8°44	n.a.	T 3
W 4	22 38 58	7°43'57	15°50	22° 4	14°28	11°31	28°53	2°55	22°57	6°27	17°18	20°54	19°52	8°50	n.a.	W 4
T 5	22 42 54	8°43'09	28° 0	23°39	15°42	12° 9	28°48	3° 2	22°59	6°25	17°18	20°52	19°49	8°57	n.a.	T 5
F 6	22 46 51	9°42'23	10♈20	25°17	16°56	12°47	28°44	3° 8	23° 0	6°24	17°17	20°49	19°46	9° 4	n.a.	F 6
S 7	22 50 47	10°41'39	22°52	26°57	18°11	13°25	28°40	3°15	23° 2	6°22	17°16	20°46	19°43	9°10	n.a.	S 7
S 8	22 54 44	11°40'58	5♉37	28°38	19°25	14° 3	28°36	3°21	23° 4	6°20	17°15	20°43	19°39	9°17	n.a.	S 8
M 9	22 58 41	12°40'18	18°37	0♍21	20°39	14°41	28°33	3°28	23° 6	6°19	17°14	20°40	19°36	9°24	n.a.	M 9
T 10	23 2 37	13°39'42	1♊54	2° 5	21°54	15°18	28°29	3°34	23° 7	6°17	17°13	20°39	19°33	9°30	n.a.	T 10
W11	23 6 34	14°39'08	15°29	3°49	23° 8	15°56	28°26	3°41	23° 9	6°15	17°12	20°D38	19°30	9°37	n.a.	W11
T 12	23 10 30	15°38'36	29°22	5°34	24°23	16°34	28°23	3°47	23°11	6°14	17°11	20°39	19°27	9°44	n.a.	T 12
F 13	23 14 27	16°38'07	13♋34	7°19	25°37	17°12	28°20	3°53	23°13	6°12	17°10	20°40	19°24	9°50	n.a.	F 13
S 14	23 18 23	17°37'40	28° 4	9° 4	26°52	17°50	28°17	4° 0	23°15	6°11	17° 9	20°42	19°20	9°57	n.a.	S 14
S 15	23 22 20	18°37'15	12♌47	10°49	28° 6	18°28	28°14	4° 6	23°17	6° 9	17° 8	20°43	19°17	10° 3	n.a.	S 15
M16	23 26 16	19°36'53	27°39	12°34	29°21	19° 6	28°12	4°12	23°19	6° 7	17° 7	20°R43	19°14	10°10	n.a.	M16
T 17	23 30 13	20°36'33	12♍33	14°19	0♍36	19°44	28°10	4°18	23°21	6° 6	17° 6	20°41	19°11	10°17	n.a.	T 17
W18	23 34 9	21°36'15	27°20	16° 3	1°51	20°21	28° 8	4°24	23°23	6° 4	17° 5	20°38	19° 8	10°23	n.a.	W18
T 19	23 38 6	22°35'59	11♎54	17°46	3° 5	20°59	28° 6	4°30	23°25	6° 3	17° 4	20°34	19° 4	10°30	n.a.	T 19
F 20	23 42 3	23°35'45	26° 7	19°30	4°20	21°37	28° 5	4°36	23°28	6° 1	17° 3	20°29	19° 1	10°37	n.a.	F 20
S 21	23 45 59	24°35'33	9♏55	21°12	5°35	22°15	28° 3	4°42	23°30	5°59	17° 2	20°24	18°58	10°43	n.a.	S 21
S 22	23 49 56	25°35'23	23°16	22°55	6°50	22°53	28° 2	4°47	23°32	5°58	17° 1	20°19	18°55	10°50	n.a.	S 22
M23	23 53 52	26°35'15	6♐12	24°36	8° 5	23°31	28° 1	4°53	23°35	5°56	17° 0	20°15	18°52	10°57	n.a.	M23
T 24	23 57 49	27°35'09	18°45	26°17	9°20	24° 8	28° 0	4°59	23°37	5°55	16°59	20°14	18°49	11° 3	n.a.	T 24
W25	0 1 45	28°35'04	1♑ 0	27°58	10°35	24°46	28° 0	5° 4	23°39	5°53	16°58	20°D13	18°45	11°10	n.a.	W25
T 26	0 5 42	29°35'01	13° 0	29°38	11°50	25°24	28° 0	5°10	23°42	5°52	16°57	20°14	18°42	11°17	n.a.	T 26
F 27	0 9 38	0♎35'00	24°51	1♎17	13° 5	26° 2	27°D59	5°15	23°44	5°50	16°56	20°16	18°39	11°23	n.a.	F 27
S 28	0 13 35	1°35'00	6♒39	2°56	14°20	26°40	28° 0	5°20	23°47	5°49	16°55	20°17	18°36	11°30	n.a.	S 28
S 29	0 17 32	2°35'03	18°27	4°34	15°35	27°17	28° 0	5°26	23°49	5°47	16°54	20°R18	18°33	11°37	n.a.	S 29
M30	0 21 28	3♎35'07	0♓20	6♎12	16♍50	27♌55	28♋ 0	5♌31	23♏52	5♓46	16♈53	20♒17	18♒30	11♒43	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n52	18s53	1s 0	17n 3	1n24	18n42	1n 0	19n13	1n13	21s47	1s15	20n45	0n58	18s36	0n 6	10s37	1s30	7s53	16s 0	14s41	14s58	19s20		n.a.
M 2	9 30	14 17	0n 5	16 43	1 31	18 23	1 2	19 3	1 14	21 48	1 15	20 43	0 58	18 37	0 6	10 37	1 30	7 53	16 0	14 41	14 59	19 17		n.a.
T 3	9 8	9 8	1 11	16 21	1 38	18 3	1 4	18 53	1 14	21 49	1 15	20 42	0 58	18 37	0 6	10 38	1 30	7 54	16 0	14 41	15 0	19 15		n.a.
W 4	8 46	3 36	2 13	15 56	1 43	17 43	1 6	18 42	1 14	21 50	1 15	20 40	0 58	18 37	0 6	10 39	1 30	7 54	16 0	14 42	15 1	19 12		n.a.
T 5	8 24	2n 6	3 11	15 28	1 47	17 23	1 7	18 32	1 14	21 51	1 15	20 39	0 58	18 38	0 6	10 39	1 30	7 55	16 1	14 42	15 2	19 10		n.a.
F 6	8 1	7 48	4 0	14 58	1 51	17 2	1 9	18 21	1 14	21 52	1 14	20 37	0 58	18 38	0 6	10 40	1 30	7 55	16 1	14 43	15 3	19 7		n.a.
S 7	7 38	13 17	4 39	14 26	1 53	16 40	1 11	18 10	1 15	21 52	1 14	20 36	0 59	18 39	0 6	10 40	1 30	7 56	16 1	14 44	15 4	19 4		n.a.
S 8	7 16	18 19	5 4	13 52	1 54	16 19	1 12	18 0	1 15	21 53	1 14	20 35	0 59	18 39	0 6	10 41	1 30	7 56	16 1	14 45	15 5	19 2		n.a.
M 9	6 53	22 36	5 15	13 16	1 55	15 56	1 14	17 49	1 15	21 54	1 14	20 33	0 59	18 40	0 6	10 42	1 30	7 57	16 1	14 46	15 6	18 59		n.a.
T 10	6 30	25 49	5 9	12 38	1 55	15 33	1 15	17 37	1 15	21 54	1 14	20 32	0 59	18 40	0 6	10 42	1 30	7 57	16 1	14 46	15 7	18 57		n.a.
W11	6 7	27 39	4 46	11 59	1 54	15 10	1 17	17 26	1 15	21 55	1 14	20 30	0 59	18 41	0 6	10 43	1 30	7 57	16 2	14 46	15 8	18 54		n.a.
T 12	5 43	27 49	4 6	11 19	1 53	14 46	1 18	17 15	1 16	21 56	1 14	20 29	0 59	18 41	0 6	10 44	1 30	7 58	16 2	14 46	15 9	18 51		n.a.
F 13	5 20	26 10	3 10	10 38	1 51	14 22	1 19	17 3	1 16	21 56	1 14	20 28	0 59	18 42	0 6	10 44	1 30	7 58	16 2	14 46	15 10	18 49		n.a.
S 14	4 57	22 46	2 1	9 56	1 48	13 57	1 20	16 52	1 16	21 57	1 14	20 26	1 0	18 42	0 6	10 45	1 30	7 59	16 2	14 45	15 11	18 46		n.a.
S 15	4 33	17 52	0 43	9 13	1 45	13 32	1 22	16 40	1 16	21 57	1 14	20 25	1 0	18 43	0 6	10 45	1 30	7 59	16 2	14 45	15 12	18 43		n.a.
M16	4 9	11 50	0s38	8 29	1 42	13 7	1 23	16 28	1 16	21 57	1 14	20 24	1 0	18 43	0 6	10 46	1 30	8 0	16 2	14 45	15 13	18 41		n.a.
T 17	3 46	5 8	1 57	7 45	1 38	12 41	1 24	16 16	1 16	21 58	1 13	20 22	1 0	18 44	0 6	10 47	1 30	8 0	16 2	14 46	15 14	18 38		n.a.
W18	3 22	1s47	3 7	7 0	1 34	12 15	1 25	16 4	1 17	21 58	1 13	20 21	1 0	18 44	0 6	10 47	1 30	8 1	16 3	14 46	15 15	18 35		n.a.
T 19	2 58	8 29	4 4	6 15	1 29	11 49	1 25	15 52	1 17	21 58	1 13	20 20	1 0	18 45	0 6	10 48	1 30	8 1	16 3	14 48	15 16	18 33		n.a.
F 20	2 34	14 36	4 44	5 30	1 25	11 22	1 26	15 40	1 17	21 58	1 13	20 19	1 1	18 45	0 6	10 48	1 30	8 2	16 3	14 50	15 17	18 30		n.a.
S 21	2 10	19 47	5 7	4 44	1 20	10 55	1 27	15 28	1 17	21 59	1 13	20 17	1 1	18 46	0 6	10 49	1 30	8 2	16 3	14 51	15 18	18 27		n.a.
S 22	1 46	23 49	5 12	3 59	1 14	10 27	1 28	15 16	1 17	21 59	1 13	20 16	1 1	18 47	0 6	10 50	1 30	8 3	16 3	14 53	15 19	18 25		n.a.
M23	1 22	26 31	5 0	3 13	1 9	10 0	1 28	15 3	1 17	21 59	1 13	20 15	1 1	18 47	0 6	10 50	1 30	8 3	16 3	14 54	15 20	18 22		n.a.
T 24	0 58	27 47	4 34	2 27	1 3	9 32	1 29	14 51	1 18	21 59	1 13	20 14	1 1	18 48	0 6	10 51	1 30	8 4	16 3	14 54	15 21	18 19		n.a.
W25	0 34	27 39	3 57	1 41	0 57	9 3	1 29	14 38	1 18	21 59	1 12	20 12	1 1	18 48	0 6	10 51	1 30	8 4	16 3	14 55	15 22	18 17		n.a.
T 26	0 10	26 12	3 9	0 56	0 51	8 35	1 29	14 25	1 18	21 59	1 12	20 11	1 1	18 49	0 6	10 52	1 30	8 5	16 3	14 54	15 23	18 14		n.a.
F 27	0s14	23 36	2 14	0 10	0 45	8 6	1 30	14 12	1 18	21 59	1 12	20 10	1 2	18 50	0 6	10 52	1 30	8 5	16 3	14 54	15 24	18 11		n.a.
S 28	0 38	20 1	1 14	0s35	0 39	7 37	1 30	14 0	1 18	21 58	1 12	20 9	1 2	18 50	0 6	10 53	1 30	8 6	16 4	14 53	15 25	18 8		n.a.
S 29	1 2	15 38	0 10	1 21	0 32	7 8	1 30	13 47	1 18	21 58	1 12	20 8	1 2	18 51	0 6	10 53	1 30	8 6	16 4	14 53	15 26	18 6		n.a.
M30	1s26	10s38	0n54	2s 6	0n26	6n38	1n30	13n33	1n19	21s58	1s12	20n 7	1n 2	18s52	0n 6	10s54	1s30	8s 7	16s 4	14s53	15s27	18s 3		n.a.

Julian Day Number = 1679662.5, Delta T = 03h16m09s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'39, Lahiri = - 5°31'39 Julian Calendar 1 Sept. 115 BCE == Greg. Calendar 29 Aug. 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

OCTOBER 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 25 25	4♎35'12	12♓22	7♎49	18♍ 5	28♌33	28♉ 1	5♌36	23♏55	5°R44	16°R52	20°R15	18♒26	11♒50	n.a.	T 1
W 2	0 29 21	5°35'20	24°35	9°26	19°20	29°11	28° 2	5°41	23°57	5♓43	16♈51	20♒10	18°23	11°56	n.a.	W 2
T 3	0 33 18	6°35'30	7♈ 0	11° 2	20°36	29°49	28° 3	5°46	24° 0	5°42	16°50	20° 4	18°20	12° 3	n.a.	T 3
F 4	0 37 14	7°35'41	19°39	12°38	21°51	0♍26	28° 4	5°51	24° 3	5°40	16°48	19°55	18°17	12°10	n.a.	F 4
S 5	0 41 11	8°35'54	2♉31	14°13	23° 6	1° 4	28° 6	5°56	24° 6	5°39	16°47	19°46	18°14	12°16	n.a.	S 5
S 6	0 45 7	9°36'10	15°36	15°48	24°21	1°42	28° 7	6° 0	24° 9	5°38	16°46	19°38	18°10	12°23	n.a.	S 6
M 7	0 49 4	10°36'27	28°53	17°23	25°36	2°20	28° 9	6° 5	24°11	5°36	16°45	19°30	18° 7	12°30	n.a.	M 7
T 8	0 53 1	11°36'47	12♊21	18°57	26°52	2°57	28°11	6° 9	24°14	5°35	16°44	19°24	18° 4	12°36	n.a.	T 8
W 9	0 56 57	12°37'09	26° 1	20°31	28° 7	3°35	28°14	6°14	24°17	5°34	16°43	19°20	18° 1	12°43	n.a.	W 9
T 10	1 0 54	13°37'32	9♋51	22° 4	29°22	4°13	28°16	6°18	24°20	5°33	16°42	19°D19	17°58	12°50	n.a.	T 10
F 11	1 4 50	14°37'58	23°52	23°37	0♎38	4°50	28°19	6°23	24°23	5°31	16°41	19°19	17°55	12°56	n.a.	F 11
S 12	1 8 47	15°38'26	8♌ 3	25°10	1°53	5°28	28°22	6°27	24°26	5°30	16°39	19°20	17°51	13° 3	n.a.	S 12
S 13	1 12 43	16°38'56	22°23	26°43	3° 9	6° 6	28°25	6°31	24°29	5°29	16°38	19°R20	17°48	13°10	n.a.	S 13
M14	1 16 40	17°39'28	6♍50	28°15	4°24	6°44	28°28	6°35	24°32	5°28	16°37	19°19	17°45	13°16	n.a.	M14
T 15	1 20 36	18°40'01	21°19	29°46	5°40	7°21	28°31	6°39	24°35	5°27	16°36	19°15	17°42	13°23	n.a.	T 15
W16	1 24 33	19°40'37	5♎45	1♏18	6°55	7°59	28°35	6°43	24°39	5°26	16°35	19° 9	17°39	13°29	n.a.	W16
T 17	1 28 30	20°41'14	20° 3	2°49	8°10	8°37	28°39	6°47	24°42	5°25	16°34	19° 0	17°35	13°36	n.a.	T 17
F 18	1 32 26	21°41'52	4♏ 5	4°20	9°26	9°14	28°43	6°50	24°45	5°23	16°33	18°49	17°32	13°43	n.a.	F 18
S 19	1 36 23	22°42'33	17°48	5°50	10°41	9°52	28°47	6°54	24°48	5°22	16°31	18°38	17°29	13°49	n.a.	S 19
S 20	1 40 19	23°43'14	1♐ 9	7°21	11°57	10°30	28°52	6°57	24°51	5°21	16°30	18°28	17°26	13°56	n.a.	S 20
M21	1 44 16	24°43'58	14° 6	8°50	13°12	11° 7	28°56	7° 1	24°55	5°21	16°29	18°19	17°23	14° 3	n.a.	M21
T 22	1 48 12	25°44'42	26°41	10°20	14°28	11°45	29° 1	7° 4	24°58	5°20	16°28	18°13	17°20	14° 9	n.a.	T 22
W23	1 52 9	26°45'28	8♑56	11°49	15°43	12°23	29° 6	7° 7	25° 1	5°19	16°27	18° 9	17°16	14°16	n.a.	W23
T 24	1 56 5	27°46'14	20°57	13°18	16°59	13° 0	29°11	7°10	25° 5	5°18	16°26	18° 7	17°13	14°23	n.a.	T 24
F 25	2 0 2	28°47'02	2♒49	14°46	18°15	13°38	29°17	7°13	25° 8	5°17	16°25	18°D 7	17°10	14°29	n.a.	F 25
S 26	2 3 59	29°47'51	14°37	16°14	19°30	14°15	29°22	7°16	25°11	5°16	16°24	18°R 7	17° 7	14°36	n.a.	S 26
S 27	2 7 55	0♏48'41	26°26	17°41	20°46	14°53	29°28	7°19	25°15	5°15	16°23	18° 7	17° 4	14°43	n.a.	S 27
M28	2 11 52	1°49'32	8♓21	19° 8	22° 1	15°31	29°34	7°22	25°18	5°15	16°22	18° 5	17° 1	14°49	n.a.	M28
T 29	2 15 48	2°50'24	20°29	20°33	23°17	16° 8	29°40	7°24	25°22	5°14	16°20	18° 1	16°57	14°56	n.a.	T 29
W30	2 19 45	3°51'18	2♈50	21°59	24°32	16°46	29°46	7°27	25°25	5°13	16°19	17°54	16°54	15° 3	n.a.	W30
T 31	2 23 41	4♏52'12	15♈30	23♏23	25♎48	17♍23	29♉52	7♌29	25♏28	5♓13	16♈18	17♒44	16♒51	15♒ 9	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	1s51	5s12	1n57	2s51	0n19	6n 9	1n30	13n20	1n19	21s58	1s12	20n 6	1n 2	18s52	0n 6	10s54	1s30	8s 7	16s 4	14s54	15s28	18s 0			n.a.
W 2	2 15	0n30	2 55	3 35	0 13	5 39	1 30	13 7	1 19	21 57	1 12	20 4	1 3	18 53	0 6	10 55	1 30	8 8	16 4	14 56	15 29	17 58			n.a.
T 3	2 39	6 15	3 45	4 19	0 6	5 9	1 30	12 54	1 19	21 57	1 11	20 3	1 3	18 54	0 6	10 55	1 30	8 8	16 4	14 58	15 30	17 55			n.a.
F 4	3 3	11 51	4 26	5 3	0s 1	4 39	1 30	12 40	1 19	21 57	1 11	20 2	1 3	18 54	0 6	10 56	1 30	8 8	16 4	15 0	15 31	17 52			n.a.
S 5	3 27	17 3	4 53	5 47	0 7	4 8	1 30	12 27	1 19	21 56	1 11	20 1	1 3	18 55	0 6	10 56	1 30	8 9	16 4	15 3	15 32	17 49			n.a.
S 6	3 51	21 34	5 6	6 30	0 14	3 38	1 29	12 14	1 19	21 56	1 11	20 0	1 3	18 56	0 6	10 57	1 30	8 9	16 4	15 6	15 33	17 47			n.a.
M 7	4 15	25 3	5 3	7 13	0 20	3 7	1 29	12 0	1 20	21 55	1 11	19 59	1 3	18 57	0 6	10 57	1 30	8 10	16 4	15 8	15 34	17 44			n.a.
T 8	4 39	27 12	4 43	7 55	0 27	2 37	1 28	11 46	1 20	21 55	1 11	19 58	1 4	18 57	0 6	10 58	1 30	8 10	16 4	15 10	15 35	17 41			n.a.
W 9	5 2	27 45	4 7	8 37	0 34	2 6	1 28	11 33	1 20	21 54	1 11	19 57	1 4	18 58	0 6	10 58	1 30	8 11	16 4	15 11	15 36	17 38			n.a.
T 10	5 26	26 35	3 16	9 18	0 40	1 35	1 27	11 19	1 20	21 53	1 10	19 56	1 4	18 59	0 6	10 59	1 30	8 11	16 4	15 12	15 37	17 36			n.a.
F 11	5 50	23 45	2 12	9 59	0 46	1 4	1 27	11 5	1 20	21 53	1 10	19 56	1 4	19 0	0 6	10 59	1 30	8 11	16 4	15 12	15 38	17 33			n.a.
S 12	6 13	19 26	1 0	10 40	0 53	0 33	1 26	10 51	1 20	21 52	1 10	19 55	1 4	19 0	0 6	10 59	1 30	8 12	16 4	15 11	15 39	17 30			n.a.
S 13	6 37	13 57	0s16	11 20	0 59	0 2	1 25	10 37	1 20	21 51	1 10	19 54	1 5	19 1	0 6	11 0	1 30	8 12	16 4	15 11	15 40	17 27			n.a.
M14	7 0	7 41	1 32	11 59	1 5	0s29	1 24	10 23	1 20	21 50	1 10	19 53	1 5	19 2	0 6	11 0	1 30	8 13	16 4	15 12	15 41	17 25			n.a.
T 15	7 24	1 0	2 42	12 38	1 11	1 0	1 23	10 9	1 20	21 50	1 10	19 52	1 5	19 3	0 6	11 1	1 30	8 13	16 4	15 13	15 42	17 22			n.a.
W16	7 47	5s42	3 41	13 16	1 17	1 31	1 22	9 55	1 21	21 49	1 10	19 51	1 5	19 3	0 5	11 1	1 30	8 13	16 4	15 15	15 43	17 19			n.a.
T 17	8 10	12 1	4 26	13 53	1 23	2 2	1 21	9 41	1 21	21 48	1 9	19 51	1 5	19 4	0 5	11 1	1 30	8 14	16 4	15 18	15 44	17 16			n.a.
F 18	8 33	17 37	4 54	14 30	1 29	2 33	1 20	9 26	1 21	21 47	1 9	19 50	1 6	19 5	0 5	11 2	1 30	8 14	16 4	15 21	15 45	17 14			n.a.
S 19	8 56	22 11	5 3	15 6	1 34	3 4	1 19	9 12	1 21	21 46	1 9	19 49	1 6	19 6	0 5	11 2	1 30	8 15	16 4	15 25	15 46	17 11			n.a.
S 20	9 19	25 27	4 56	15 41	1 39	3 35	1 18	8 58	1 21	21 45	1 9	19 48	1 6	19 7	0 5	11 2	1 30	8 15	16 4	15 28	15 47	17 8			n.a.
M21	9 41	27 17	4 34	16 15	1 45	4 6	1 17	8 43	1 21	21 44	1 9	19 48	1 6	19 7	0 5	11 3	1 30	8 15	16 3	15 31	15 48	17 5			n.a.
T 22	10 4	27 38	3 58	16 49	1 50	4 37	1 15	8 29	1 21	21 42	1 9	19 47	1 6	19 8	0 5	11 3	1 30	8 16	16 3	15 33	15 49	17 2			n.a.
W23	10 26	26 37	3 13	17 22	1 54	5 7	1 14	8 15	1 21	21 41	1 9	19 46	1 6	19 9	0 5	11 3	1 30	8 16	16 3	15 34	15 50	17 0			n.a.
T 24	10 48	24 21	2 19	17 53	1 59	5 38	1 12	8 0	1 21	21 40	1 8	19 46	1 7	19 10	0 5	11 4	1 30	8 16	16 3	15 34	15 51	16 57			n.a.
F 25	11 10	21 3	1 21	18 24	2 3	6 8	1 11	7 45	1 21	21 39	1 8	19 45	1 7	19 11	0 5	11 4	1 30	8 17	16 3	15 34	15 52	16 54			n.a.
S 26	11 32	16 56	0 19	18 54	2 7	6 39	1 9	7 31	1 22	21 38	1 8	19 45	1 7	19 11	0 5	11 4	1 30	8 17	16 3	15 34	15 53	16 51			n.a.
S 27	11 53	12 10	0n44	19 23	2 10	7 9	1 8	7 16	1 22	21 36	1 8	19 44	1 7	19 12	0 5	11 5	1 30	8 17	16 3	15 34	15 54	16 48			n.a.
M28	12 15	6 54	1 45	19 51	2 14	7 39	1 6	7 2	1 22	21 35	1 8	19 44	1 8	19 13	0 5	11 5	1 30	8 18	16 3	15 35	15 55	16 46			n.a.
T 29	12 36	1 20	2 43	20 17	2 17	8 9	1 5	6 47	1 22	21 33	1 8	19 43	1 8	19 14	0 5	11 5	1 30	8 18	16 3	15 36	15 56	16 43			n.a.
W30	12 57	4n24	3 34	20 42	2 19	8 38	1 3	6 32	1 22	21 32	1 8	19 43	1 8	19 15	0 5	11 5	1 29	8 18	16 3	15 39	15 57	16 40			n.a.
T 31	13s17	10n 5	4n15	21s 6	2s21	9s 8	1n 1	6n18	1n22	21s30	1s 8	19n42	1n 8	19s16	0n 5	11s 5	1s29	8s19	16s 2	15s42	15s58	16s37			n.a.

Julian Day Number = 1679692.5, Delta T = 03h16m08s
Ecliptic obliquity = 23°42'40, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'35, Lahiri = - 5°31'35 Julian Calendar 1 Oct. 115 BCE == Greg. Calendar 28 Sept. 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

NOVEMBER 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 27 38	5♏53'07	28♈27	24♏46	27♎ 3	18♍ 1	29♉59	7♌31	25♏32	5°R12	16°R17	17°R32	16♒48	15♒16	n.a.	F 1
S 2	2 31 34	6°54'04	11♉41	26° 8	28°19	18°38	0♒ 5	7°34	25°35	5♓11	16♈16	17♒19	16°45	15°22	n.a.	S 2
S 3	2 35 31	7°55'01	25°11	27°28	29°35	19°16	0°12	7°36	25°39	5°11	16°15	17° 6	16°41	15°29	n.a.	S 3
M 4	2 39 28	8°56'00	8♊54	28°47	0♏50	19°53	0°19	7°38	25°42	5°10	16°14	16°54	16°38	15°36	n.a.	M 4
T 5	2 43 24	9°57'00	22°45	0♐ 4	2° 6	20°31	0°26	7°39	25°46	5°10	16°13	16°45	16°35	15°42	n.a.	T 5
W 6	2 47 21	10°58'02	6♋43	1°19	3°21	21° 8	0°34	7°41	25°50	5° 9	16°12	16°39	16°32	15°49	n.a.	W 6
T 7	2 51 17	11°59'04	20°44	2°32	4°37	21°46	0°41	7°43	25°53	5° 9	16°11	16°35	16°29	15°56	n.a.	T 7
F 8	2 55 14	13° 0'08	4♌47	3°41	5°53	22°23	0°49	7°44	25°57	5° 8	16°10	16°34	16°26	16° 2	n.a.	F 8
S 9	2 59 10	14° 1'13	18°51	4°48	7° 8	23° 1	0°57	7°46	26° 0	5° 8	16° 9	16°34	16°22	16° 9	n.a.	S 9
S 10	3 3 7	15° 2'19	2♍56	5°50	8°24	23°38	1° 5	7°47	26° 4	5° 8	16° 8	16°34	16°19	16°16	n.a.	S 10
M11	3 7 3	16° 3'27	17° 1	6°48	9°39	24°16	1°13	7°48	26° 7	5° 7	16° 7	16°31	16°16	16°22	n.a.	M11
T 12	3 11 0	17° 4'35	1♎ 3	7°42	10°55	24°53	1°21	7°49	26°11	5° 7	16° 6	16°27	16°13	16°29	n.a.	T 12
W13	3 14 57	18° 5'44	15° 2	8°29	12°11	25°30	1°29	7°50	26°15	5° 7	16° 5	16°19	16°10	16°36	n.a.	W13
T 14	3 18 53	19° 6'54	28°53	9°10	13°26	26° 8	1°38	7°51	26°18	5° 7	16° 4	16° 8	16° 7	16°42	n.a.	T 14
F 15	3 22 50	20° 8'05	12♏34	9°44	14°42	26°45	1°47	7°52	26°22	5° 6	16° 3	15°55	16° 3	16°49	n.a.	F 15
S 16	3 26 46	21° 9'17	25°59	10° 9	15°57	27°22	1°55	7°53	26°26	5° 6	16° 2	15°41	16° 0	16°55	n.a.	S 16
S 17	3 30 43	22°10'30	9♐ 8	10°25	17°13	28° 0	2° 4	7°53	26°29	5° 6	16° 2	15°28	15°57	17° 2	n.a.	S 17
M18	3 34 39	23°11'43	21°57	10°R32	18°29	28°37	2°14	7°54	26°33	5° 6	16° 1	15°17	15°54	17° 9	n.a.	M18
T 19	3 38 36	24°12'56	4♑28	10°28	19°44	29°14	2°23	7°54	26°37	5°D 6	16° 0	15° 8	15°51	17°15	n.a.	T 19
W20	3 42 32	25°14'10	16°42	10°12	21° 0	29°52	2°32	7°54	26°40	5° 6	15°59	15° 2	15°47	17°22	n.a.	W20
T 21	3 46 29	26°15'23	28°43	9°45	22°15	0♎29	2°42	7°R54	26°44	5° 6	15°58	14°59	15°44	17°29	n.a.	T 21
F 22	3 50 26	27°16'37	10♒34	9° 6	23°31	1° 6	2°51	7°54	26°47	5° 6	15°57	14°D58	15°41	17°35	n.a.	F 22
S 23	3 54 22	28°17'52	22°22	8°16	24°46	1°43	3° 1	7°54	26°51	5° 6	15°56	14°R58	15°38	17°42	n.a.	S 23
S 24	3 58 19	29°19'06	4♓10	7°15	26° 2	2°21	3°11	7°54	26°55	5° 7	15°56	14°58	15°35	17°49	n.a.	S 24
M25	4 2 15	0♐20'20	16° 6	6° 6	27°18	2°58	3°21	7°53	26°58	5° 7	15°55	14°57	15°32	17°55	n.a.	M25
T 26	4 6 12	1°21'34	28°14	4°50	28°33	3°35	3°31	7°53	27° 2	5° 7	15°54	14°54	15°28	18° 2	n.a.	T 26
W27	4 10 8	2°22'48	10♈40	3°29	29°49	4°12	3°41	7°52	27° 6	5° 7	15°53	14°48	15°25	18° 9	n.a.	W27
T 28	4 14 5	3°24'02	23°26	2° 7	1♐ 4	4°49	3°52	7°52	27° 9	5° 7	15°53	14°39	15°22	18°15	n.a.	T 28
F 29	4 18 1	4°25'16	6♉34	0°46	2°20	5°26	4° 2	7°51	27°13	5° 8	15°52	14°29	15°19	18°22	n.a.	F 29
S 30	4 21 58	5♐26'30	20♉ 6	29♏29	3♐35	6♎ 3	4♒13	7♌50	27♏17	5♓ 8	15♈51	14♒17	15♒16	18♒29	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13s38	15n27	4n44	21s29	2s23	9s37	0n59	6n 3	1n22	21s29	1s 7	19n42	1n 8	19s17	0n 5	11s 6	1s29	8s19	16s 2	15s45	15s59	16s34		n.a.
S 2	13 58	20 14	4 59	21 50	2 24	10 6	0 57	5 48	1 22	21 27	1 7	19 42	1 9	19 17	0 5	11 6	1 29	8 19	16 2	15 49	16 0	16 32		n.a.
S 3	14 18	24 5	4 57	22 10	2 25	10 35	0 56	5 33	1 22	21 26	1 7	19 41	1 9	19 18	0 5	11 6	1 29	8 19	16 2	15 53	16 1	16 29		n.a.
M 4	14 38	26 37	4 39	22 28	2 25	11 4	0 54	5 18	1 22	21 24	1 7	19 41	1 9	19 19	0 5	11 6	1 29	8 20	16 2	15 57	16 2	16 26		n.a.
T 5	14 58	27 34	4 4	22 45	2 25	11 32	0 52	5 3	1 22	21 22	1 7	19 41	1 9	19 20	0 5	11 6	1 29	8 20	16 2	16 0	16 3	16 23		n.a.
W 6	15 17	26 46	3 14	23 0	2 23	12 0	0 50	4 49	1 22	21 21	1 7	19 40	1 9	19 21	0 5	11 6	1 29	8 20	16 2	16 2	16 4	16 20		n.a.
T 7	15 36	24 16	2 12	23 13	2 22	12 27	0 48	4 34	1 22	21 19	1 7	19 40	1 10	19 22	0 5	11 7	1 29	8 20	16 1	16 3	16 5	16 17		n.a.
F 8	15 55	20 17	1 2	23 24	2 19	12 55	0 46	4 19	1 22	21 17	1 6	19 40	1 10	19 23	0 5	11 7	1 29	8 20	16 1	16 3	16 5	16 15		n.a.
S 9	16 14	15 9	0s12	23 33	2 15	13 22	0 43	4 4	1 22	21 15	1 6	19 40	1 10	19 23	0 5	11 7	1 29	8 21	16 1	16 3	16 6	16 12		n.a.
S 10	16 32	9 13	1 25	23 40	2 11	13 49	0 41	3 49	1 22	21 13	1 6	19 40	1 10	19 24	0 5	11 7	1 29	8 21	16 1	16 3	16 7	16 9		n.a.
M11	16 50	2 50	2 33	23 45	2 6	14 15	0 39	3 34	1 22	21 11	1 6	19 40	1 10	19 25	0 5	11 7	1 29	8 21	16 1	16 4	16 8	16 6		n.a.
T 12	17 8	3s39	3 32	23 48	1 59	14 41	0 37	3 19	1 22	21 9	1 6	19 39	1 11	19 26	0 5	11 7	1 29	8 21	16 1	16 5	16 9	16 3		n.a.
W13	17 25	9 56	4 17	23 48	1 51	15 7	0 35	3 4	1 22	21 7	1 6	19 39	1 11	19 27	0 5	11 7	1 29	8 21	16 0	16 8	16 10	16 0		n.a.
T 14	17 42	15 40	4 47	23 46	1 43	15 32	0 33	2 49	1 22	21 5	1 6	19 39	1 11	19 28	0 5	11 7	1 29	8 22	16 0	16 11	16 11	15 57		n.a.
F 15	17 59	20 32	5 0	23 41	1 33	15 57	0 30	2 34	1 22	21 3	1 6	19 39	1 11	19 29	0 5	11 7	1 29	8 22	16 0	16 15	16 12	15 55		n.a.
S 16	18 15	24 15	4 55	23 34	1 21	16 21	0 28	2 19	1 22	21 1	1 6	19 39	1 12	19 29	0 5	11 7	1 29	8 22	16 0	16 19	16 13	15 52		n.a.
S 17	18 31	26 36	4 35	23 23	1 8	16 45	0 26	2 4	1 22	20 59	1 5	19 39	1 12	19 30	0 5	11 7	1 29	8 22	15 59	16 23	16 14	15 49		n.a.
M18	18 47	27 29	4 2	23 10	0 54	17 9	0 23	1 49	1 23	20 57	1 5	19 40	1 12	19 31	0 5	11 7	1 29	8 22	15 59	16 26	16 15	15 46		n.a.
T 19	19 2	26 55	3 17	22 54	0 38	17 32	0 21	1 34	1 23	20 55	1 5	19 40	1 12	19 32	0 5	11 7	1 29	8 22	15 59	16 29	16 16	15 43		n.a.
W20	19 17	25 2	2 24	22 35	0 21	17 54	0 19	1 19	1 22	20 52	1 5	19 40	1 12	19 33	0 5	11 7	1 29	8 22	15 59	16 30	16 17	15 40		n.a.
T 21	19 32	22 2	1 25	22 13	0 3	18 17	0 16	1 4	1 22	20 50	1 5	19 40	1 13	19 34	0 5	11 7	1 29	8 22	15 59	16 31	16 18	15 37		n.a.
F 22	19 46	18 9	0 23	21 48	0n16	18 38	0 14	0 49	1 22	20 48	1 5	19 40	1 13	19 35	0 5	11 7	1 29	8 23	15 58	16 32	16 19	15 34		n.a.
S 23	20 0	13 36	0n39	21 20	0 36	18 59	0 12	0 34	1 22	20 45	1 5	19 41	1 13	19 36	0 5	11 7	1 28	8 23	15 58	16 32	16 20	15 31		n.a.
S 24	20 14	8 32	1 40	20 50	0 56	19 20	0 9	0 19	1 22	20 43	1 5	19 41	1 13	19 36	0 5	11 7	1 28	8 23	15 58	16 32	16 21	15 29		n.a.
M25	20 27	3 8	2 37	20 19	1 17	19 40	0 7	0 4	1 22	20 40	1 5	19 41	1 14	19 37	0 5	11 7	1 28	8 23	15 58	16 32	16 22	15 26		n.a.
T 26	20 40	2n28	3 28	19 46	1 36	19 59	0 5	0s11	1 22	20 38	1 4	19 41	1 14	19 38	0 5	11 7	1 28	8 23	15 57	16 33	16 23	15 23		n.a.
W27	20 52	8 6	4 11	19 13	1 55	20 18	0 2	0 26	1 22	20 35	1 4	19 42	1 14	19 39	0 5	11 6	1 28	8 23	15 57	16 35	16 24	15 20		n.a.
T 28	21 4	13 33	4 42	18 40	2 12	20 37	0s 0	0 41	1 22	20 33	1 4	19 42	1 14	19 40	0 5	11 6	1 28	8 23	15 57	16 37	16 25	15 17		n.a.
F 29	21 16	18 34	4 59	18 9	2 27	20 54	0 3	0 56	1 22	20 30	1 4	19 43	1 14	19 41	0 5	11 6	1 28	8 23	15 57	16 40	16 26	15 14		n.a.
S 30	21s27	22n47	5n 1	17s40	2n40	21s11	0s 5	1s11	1n22	20s28	1s 4	19n43	1n15	19s41	0n 5	11s 6	1s28	8s23	15s56	16s44	16s26	15s11		n.a.

Julian Day Number = 1679723.5, Delta T = 03h16m08s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'31, Lahiri = - 5°31'31 Julian Calendar 1 Nov. 115 BCE == Greg. Calendar 29 Oct. 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 115 BCE
geocentric

DECEMBER 115 BCE (-114) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 25 55	6♐27'44	3♊58	28°R17	4♐51	6♎40	4♒23	7°R49	27♏20	5♓ 9	15°R51	14°R 5	15♒13	18♒35	n.a.	S 1
M 2	4 29 51	7°28'58	18° 6	27♏13	6° 6	7°17	4°34	7♌48	27°24	5° 9	15♈50	13♒55	15° 9	18°42	n.a.	M 2
T 3	4 33 48	8°30'12	2♋25	26°19	7°22	7°54	4°45	7°47	27°27	5° 9	15°49	13°46	15° 6	18°48	n.a.	T 3
W 4	4 37 44	9°31'27	16°50	25°34	8°37	8°31	4°56	7°45	27°31	5°10	15°49	13°41	15° 3	18°55	n.a.	W 4
T 5	4 41 41	10°32'41	1♌15	25° 0	9°53	9° 8	5° 7	7°44	27°35	5°10	15°48	13°38	15° 0	19° 2	n.a.	T 5
F 6	4 45 37	11°33'55	15°35	24°36	11° 8	9°45	5°19	7°42	27°38	5°11	15°48	13°D38	14°57	19° 8	n.a.	F 6
S 7	4 49 34	12°35'10	29°48	24°21	12°24	10°22	5°30	7°41	27°42	5°12	15°47	13°38	14°53	19°15	n.a.	S 7
S 8	4 53 31	13°36'24	13♍52	24°D17	13°39	10°59	5°41	7°39	27°45	5°12	15°46	13°R39	14°50	19°22	n.a.	S 8
M 9	4 57 27	14°37'39	27°47	24°21	14°55	11°36	5°53	7°37	27°49	5°13	15°46	13°38	14°47	19°28	n.a.	M 9
T 10	5 1 24	15°38'53	11♎33	24°34	16°10	12°13	6° 4	7°35	27°52	5°14	15°45	13°35	14°44	19°35	n.a.	T 10
W11	5 5 20	16°40'07	25° 9	24°54	17°26	12°50	6°16	7°33	27°56	5°14	15°45	13°29	14°41	19°42	n.a.	W11
T 12	5 9 17	17°41'22	8♏35	25°21	18°41	13°27	6°28	7°31	27°59	5°15	15°44	13°21	14°38	19°48	n.a.	T 12
F 13	5 13 13	18°42'36	21°49	25°54	19°56	14° 3	6°40	7°29	28° 3	5°16	15°44	13°12	14°34	19°55	n.a.	F 13
S 14	5 17 10	19°43'50	4♐50	26°33	21°12	14°40	6°52	7°26	28° 6	5°17	15°44	13° 1	14°31	20° 2	n.a.	S 14
S 15	5 21 6	20°45'03	17°39	27°17	22°27	15°17	7° 4	7°24	28°10	5°18	15°43	12°52	14°28	20° 8	n.a.	S 15
M16	5 25 3	21°46'16	0♑13	28° 5	23°43	15°54	7°16	7°21	28°13	5°18	15°43	12°43	14°25	20°15	n.a.	M16
T 17	5 29 0	22°47'29	12°34	28°58	24°58	16°30	7°28	7°19	28°17	5°19	15°42	12°36	14°22	20°22	n.a.	T 17
W18	5 32 56	23°48'40	24°41	29°54	26°14	17° 7	7°41	7°16	28°20	5°20	15°42	12°32	14°19	20°28	n.a.	W18
T 19	5 36 53	24°49'51	6♒39	0♐53	27°29	17°43	7°53	7°13	28°23	5°21	15°42	12°30	14°15	20°35	n.a.	T 19
F 20	5 40 49	25°51'01	18°29	1°56	28°44	18°20	8° 6	7°10	28°27	5°22	15°41	12°D30	14°12	20°41	n.a.	F 20
S 21	5 44 46	26°52'10	0♓15	3° 1	29°59	18°56	8°18	7° 7	28°30	5°23	15°41	12°31	14° 9	20°48	n.a.	S 21
S 22	5 48 42	27°53'18	12° 3	4° 8	1♑15	19°33	8°31	7° 4	28°33	5°25	15°41	12°33	14° 6	20°55	n.a.	S 22
M23	5 52 39	28°54'24	23°58	5°18	2°30	20° 9	8°44	7° 1	28°37	5°26	15°41	12°R34	14° 3	21° 1	n.a.	M23
T 24	5 56 36	29°55'30	6♈ 4	6°29	3°46	20°46	8°56	6°57	28°40	5°27	15°40	12°34	13°59	21° 8	n.a.	T 24
W25	6 0 32	0♑56'35	18°27	7°42	5° 1	21°22	9° 9	6°54	28°43	5°28	15°40	12°32	13°56	21°15	n.a.	W25
T 26	6 4 29	1°57'38	1♉11	8°57	6°16	21°58	9°22	6°51	28°46	5°29	15°40	12°29	13°53	21°21	n.a.	T 26
F 27	6 8 25	2°58'40	14°21	10°14	7°32	22°35	9°35	6°47	28°50	5°30	15°40	12°23	13°50	21°28	n.a.	F 27
S 28	6 12 22	3°59'41	27°56	11°32	8°47	23°11	9°48	6°43	28°53	5°32	15°40	12°17	13°47	21°35	n.a.	S 28
S 29	6 16 18	5° 0'41	11♊58	12°51	10° 2	23°47	10° 1	6°40	28°56	5°33	15°40	12°11	13°44	21°41	n.a.	S 29
M30	6 20 15	6° 1'40	26°22	14°11	11°17	24°23	10°14	6°36	28°59	5°34	15°40	12° 5	13°40	21°48	n.a.	M30
T 31	6 24 11	7♑ 2'37	11♋ 3	15♐33	12♑33	24♎59	10♒28	6♌32	29♏ 2	5♓36	15♈40	12♒ 1	13♒37	21♒55	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	21s38	25n50	4n45	17s14	2n50	21s28	0s 7	1s25	1n22	20s25	1s 4	19n44	1n15	19s42	0n 5	11s 6	1s28	8s23	15s56	16s47	16s27	15s 8		n.a.
M 2	21 48	27 20	4 11	16 52	2 58	21 44	0 10	1 40	1 22	20 22	1 4	19 44	1 15	19 43	0 5	11 6	1 28	8 23	15 56	16 50	16 28	15 5		n.a.
T 3	21 58	27 2	3 21	16 34	3 4	21 59	0 12	1 55	1 22	20 19	1 4	19 45	1 15	19 44	0 5	11 5	1 28	8 23	15 55	16 53	16 29	15 2		n.a.
W 4	22 8	24 55	2 18	16 20	3 8	22 14	0 14	2 10	1 22	20 17	1 4	19 45	1 15	19 45	0 5	11 5	1 28	8 23	15 55	16 54	16 30	14 59		n.a.
T 5	22 17	21 10	1 6	16 10	3 9	22 28	0 17	2 25	1 22	20 14	1 4	19 46	1 16	19 46	0 5	11 5	1 28	8 23	15 55	16 55	16 31	14 57		n.a.
F 6	22 26	16 11	0s10	16 5	3 9	22 41	0 19	2 39	1 22	20 11	1 4	19 46	1 16	19 47	0 5	11 5	1 28	8 23	15 55	16 55	16 32	14 54		n.a.
S 7	22 34	10 20	1 25	16 3	3 7	22 53	0 21	2 54	1 22	20 8	1 4	19 47	1 16	19 47	0 5	11 4	1 28	8 23	15 54	16 55	16 33	14 51		n.a.
S 8	22 41	4 3	2 34	16 5	3 4	23 5	0 24	3 9	1 22	20 5	1 3	19 48	1 16	19 48	0 5	11 4	1 28	8 23	15 54	16 55	16 34	14 48		n.a.
M 9	22 49	2s22	3 33	16 10	3 0	23 16	0 26	3 23	1 22	20 2	1 3	19 48	1 16	19 49	0 5	11 4	1 28	8 23	15 54	16 55	16 35	14 45		n.a.
T 10	22 56	8 35	4 19	16 18	2 54	23 27	0 28	3 38	1 21	19 59	1 3	19 49	1 17	19 50	0 5	11 4	1 28	8 22	15 53	16 56	16 36	14 42		n.a.
W11	23 2	14 20	4 50	16 29	2 48	23 37	0 30	3 53	1 21	19 56	1 3	19 50	1 17	19 51	0 5	11 3	1 28	8 22	15 53	16 58	16 37	14 39		n.a.
T 12	23 8	19 19	5 4	16 43	2 41	23 46	0 33	4 7	1 21	19 53	1 3	19 50	1 17	19 51	0 5	11 3	1 28	8 22	15 53	17 0	16 38	14 36		n.a.
F 13	23 13	23 17	5 2	16 58	2 34	23 54	0 35	4 22	1 21	19 50	1 3	19 51	1 17	19 52	0 5	11 3	1 28	8 22	15 52	17 3	16 39	14 33		n.a.
S 14	23 18	25 59	4 44	17 14	2 26	24 2	0 37	4 36	1 21	19 47	1 3	19 52	1 18	19 53	0 5	11 2	1 28	8 22	15 52	17 6	16 40	14 30		n.a.
S 15	23 23	27 18	4 12	17 32	2 18	24 9	0 39	4 51	1 21	19 44	1 3	19 53	1 18	19 54	0 5	11 2	1 28	8 22	15 52	17 9	16 41	14 27		n.a.
M16	23 27	27 10	3 28	17 52	2 9	24 15	0 41	5 5	1 21	19 41	1 3	19 54	1 18	19 55	0 5	11 1	1 28	8 22	15 51	17 11	16 42	14 24		n.a.
T 17	23 31	25 40	2 34	18 12	2 1	24 20	0 43	5 19	1 21	19 37	1 3	19 55	1 18	19 55	0 5	11 1	1 27	8 21	15 51	17 13	16 42	14 21		n.a.
W18	23 34	22 59	1 35	18 32	1 52	24 25	0 45	5 34	1 20	19 34	1 3	19 56	1 18	19 56	0 5	11 1	1 27	8 21	15 51	17 14	16 43	14 18		n.a.
T 19	23 36	19 20	0 32	18 53	1 43	24 29	0 47	5 48	1 20	19 31	1 3	19 56	1 19	19 57	0 5	11 0	1 27	8 21	15 50	17 15	16 44	14 15		n.a.
F 20	23 39	14 57	0n32	19 15	1 34	24 32	0 49	6 2	1 20	19 27	1 3	19 57	1 19	19 58	0 5	11 0	1 27	8 21	15 50	17 15	16 45	14 12		n.a.
S 21	23 40	10 2	1 35	19 37	1 25	24 34	0 51	6 16	1 20	19 24	1 3	19 58	1 19	19 58	0 5	10 59	1 27	8 21	15 50	17 14	16 46	14 9		n.a.
S 22	23 42	4 45	2 33	19 58	1 16	24 35	0 53	6 30	1 20	19 21	1 3	19 59	1 19	19 59	0 5	10 59	1 27	8 21	15 49	17 14	16 47	14 6		n.a.
M23	23 42	0n43	3 26	20 20	1 7	24 36	0 55	6 44	1 20	19 17	1 3	20 0	1 19	20 0	0 5	10 59	1 27	8 20	15 49	17 14	16 48	14 3		n.a.
T 24	23 43	6 15	4 10	20 41	0 58	24 36	0 57	6 58	1 19	19 14	1 2	20 1	1 19	20 1	0 5	10 58	1 27	8 20	15 49	17 14	16 49	14 0		n.a.
W25	23 42	11 40	4 44	21 2	0 49	24 35	0 59	7 12	1 19	19 10	1 2	20 2	1 20	20 1	0 5	10 58	1 27	8 20	15 48	17 14	16 50	13 58		n.a.
T 26	23 42	16 46	5 5	21 22	0 41	24 34	1 0	7 26	1 19	19 7	1 2	20 4	1 20	20 2	0 5	10 57	1 27	8 20	15 48	17 15	16 51	13 55		n.a.
F 27	23 41	21 15	5 10	21 42	0 32	24 32	1 2	7 40	1 19	19 3	1 2	20 5	1 20	20 3	0 5	10 57	1 27	8 19	15 48	17 17	16 52	13 52		n.a.
S 28	23 39	24 47	4 59	22 2	0 24	24 29	1 4	7 54	1 19	19 0	1 2	20 6	1 20	20 3	0 5	10 56	1 27	8 19	15 47	17 18	16 53	13 49		n.a.
S 29	23 37	26 56	4 30	22 21	0 15	24 25	1 5	8 7	1 18	18 56	1 2	20 7	1 20	20 4	0 5	10 56	1 27	8 19	15 47	17 20	16 54	13 46		n.a.
M30	23 34	27 23	3 43	22 39	0 7	24 20	1 7	8 21	1 18	18 52	1 2	20 8	1 21	20 5	0 5	10 55	1 27	8 18	15 47	17 22	16 55	13 43		n.a.
T 31	23s31	25n55	2n41	22s56	0s 1	24s15	1s 8	8s34	1n18	18s49	1s 2	20n 9	1n21	20s 6	0n 5	10s55	1s27	8s18	15s46	17s23	16s55	13s40		n.a.

Julian Day Number = 1679753.5, Delta T = 03h16m07s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'27, Lahiri = - 5°31'27 Julian Calendar 1 Dec. 115 BCE == Greg. Calendar 28 Nov. 115 BCE

The year -114 astronomical counting style corresponds to year 115 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

JANUARY 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 28 8	8♉ 3'34	25♋53	16♐56	13♉48	25♎35	10♒41	6°R28	29♏ 5	5♓37	15°R40	11°R58	13♒34	22♒ 1	n.a.	W 1
T 2	6 32 5	9° 4'29	10♌45	18°19	15° 3	26°11	10°54	6♌24	29° 8	5°39	15°D40	11°D57	13°31	22° 8	n.a.	T 2
F 3	6 36 1	10° 5'24	25°31	19°44	16°18	26°47	11° 8	6°20	29°11	5°40	15♈40	11♒58	13°28	22°15	n.a.	F 3
S 4	6 39 58	11° 6'17	10♍ 5	21°10	17°33	27°23	11°21	6°16	29°14	5°41	15°40	11°59	13°25	22°21	n.a.	S 4
S 5	6 43 54	12° 7'09	24°24	22°36	18°48	27°59	11°35	6°12	29°17	5°43	15°40	12° 1	13°21	22°28	n.a.	S 5
M 6	6 47 51	13° 8'00	8♎24	24° 4	20° 4	28°35	11°48	6° 8	29°20	5°44	15°40	12°R 1	13°18	22°34	n.a.	M 6
T 7	6 51 47	14° 8'51	22° 7	25°32	21°19	29°11	12° 2	6° 4	29°23	5°46	15°40	12° 1	13°15	22°41	n.a.	T 7
W 8	6 55 44	15° 9'40	5♏33	27° 2	22°34	29°47	12°16	5°59	29°26	5°48	15°40	12° 0	13°12	22°48	n.a.	W 8
T 9	6 59 40	16°10'28	18°42	28°32	23°49	0♏22	12°29	5°55	29°28	5°49	15°40	11°57	13° 9	22°54	n.a.	T 9
F 10	7 3 37	17°11'15	1♐36	0♉ 3	25° 4	0°58	12°43	5°51	29°31	5°51	15°40	11°53	13° 5	23° 1	n.a.	F 10
S 11	7 7 34	18°12'01	14°16	1°34	26°19	1°34	12°57	5°46	29°34	5°52	15°40	11°49	13° 2	23° 8	n.a.	S 11
S 12	7 11 30	19°12'46	26°44	3° 7	27°34	2° 9	13°11	5°42	29°37	5°54	15°41	11°46	12°59	23°14	n.a.	S 12
M13	7 15 27	20°13'29	9♉ 1	4°40	28°49	2°45	13°25	5°37	29°39	5°56	15°41	11°42	12°56	23°21	n.a.	M13
T 14	7 19 23	21°14'10	21° 8	6°15	0♒ 4	3°20	13°39	5°33	29°42	5°58	15°41	11°40	12°53	23°28	n.a.	T 14
W15	7 23 20	22°14'51	3♒ 6	7°50	1°19	3°56	13°53	5°28	29°44	5°59	15°41	11°39	12°50	23°34	n.a.	W15
T 16	7 27 16	23°15'29	14°59	9°26	2°34	4°31	14° 7	5°23	29°47	6° 1	15°42	11°D38	12°46	23°41	n.a.	T 16
F 17	7 31 13	24°16'06	26°47	11° 2	3°49	5° 6	14°21	5°19	29°50	6° 3	15°42	11°39	12°43	23°48	n.a.	F 17
S 18	7 35 10	25°16'41	8♓33	12°40	5° 4	5°41	14°35	5°14	29°52	6° 5	15°42	11°40	12°40	23°54	n.a.	S 18
S 19	7 39 6	26°17'14	20°22	14°19	6°19	6°16	14°49	5° 9	29°54	6° 6	15°43	11°42	12°37	24° 1	n.a.	S 19
M20	7 43 3	27°17'45	2♈17	15°58	7°34	6°52	15° 3	5° 5	29°57	6° 8	15°43	11°43	12°34	24° 8	n.a.	M20
T 21	7 46 59	28°18'14	14°22	17°39	8°49	7°27	15°17	5° 0	29°59	6°10	15°43	11°44	12°31	24°14	n.a.	T 21
W22	7 50 56	29°18'41	26°42	19°20	10° 4	8° 1	15°31	4°55	0♐ 1	6°12	15°44	11°R45	12°27	24°21	n.a.	W22
T 23	7 54 52	0♒19'06	9♉21	21° 2	11°19	8°36	15°46	4°50	0° 4	6°14	15°44	11°44	12°24	24°27	n.a.	T 23
F 24	7 58 49	1°19'29	22°24	22°45	12°34	9°11	16° 0	4°45	0° 6	6°16	15°45	11°44	12°21	24°34	n.a.	F 24
S 25	8 2 45	2°19'51	5♊53	24°29	13°49	9°46	16°14	4°41	0° 8	6°18	15°45	11°43	12°18	24°41	n.a.	S 25
S 26	8 6 42	3°20'10	19°50	26°14	15° 3	10°20	16°28	4°36	0°10	6°20	15°46	11°42	12°15	24°47	n.a.	S 26
M27	8 10 39	4°20'27	4♋13	28° 1	16°18	10°55	16°43	4°31	0°12	6°22	15°46	11°41	12°11	24°54	n.a.	M27
T 28	8 14 35	5°20'42	18°59	29°48	17°33	11°29	16°57	4°26	0°14	6°24	15°47	11°40	12° 8	25° 1	n.a.	T 28
W29	8 18 32	6°20'55	4♌ 1	1♒36	18°48	12° 4	17°11	4°21	0°16	6°26	15°47	11°40	12° 5	25° 7	n.a.	W29
T 30	8 22 28	7°21'06	19°11	3°25	20° 2	12°38	17°26	4°17	0°18	6°28	15°48	11°D40	12° 2	25°14	n.a.	T 30
F 31	8 26 25	8♒21'15	4♍19	5♒15	21♒17	13♏12	17♒40	4♌12	0♐20	6♓30	15♈49	11♒40	11♒59	25♒21	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	23s28	22n38	1n27	23s12	0s 9	24s 9	1s10	8s48	1n18	18s45	1s 2	20n10	1n21	20s 6	0n 5	10s54	1s27	8s18	15s46	17s24	16s56	13s37			n.a.
T 2	23 24	17 51	0 7	23 28	0 16	24 2	1 11	9 1	1 17	18 41	1 2	20 11	1 21	20 7	0 5	10 53	1 27	8 18	15 46	17 24	16 57	13 34			n.a.
F 3	23 19	12 0	1s14	23 42	0 24	23 54	1 13	9 15	1 17	18 37	1 2	20 13	1 21	20 8	0 5	10 53	1 27	8 17	15 45	17 24	16 58	13 31			n.a.
S 4	23 14	5 36	2 28	23 56	0 31	23 46	1 14	9 28	1 17	18 34	1 2	20 14	1 21	20 8	0 5	10 52	1 27	8 17	15 45	17 24	16 59	13 28			n.a.
S 5	23 9	0s59	3 32	24 8	0 38	23 37	1 15	9 41	1 17	18 30	1 2	20 15	1 22	20 9	0 5	10 52	1 27	8 17	15 45	17 23	17 0	13 25			n.a.
M 6	23 3	7 22	4 22	24 20	0 45	23 27	1 16	9 54	1 16	18 26	1 2	20 16	1 22	20 9	0 5	10 51	1 27	8 16	15 44	17 23	17 1	13 22			n.a.
T 7	22 57	13 16	4 55	24 30	0 52	23 17	1 18	10 7	1 16	18 22	1 2	20 17	1 22	20 10	0 5	10 50	1 27	8 16	15 44	17 23	17 2	13 19			n.a.
W 8	22 50	18 25	5 12	24 39	0 58	23 5	1 19	10 20	1 16	18 18	1 2	20 19	1 22	20 11	0 5	10 50	1 27	8 16	15 44	17 23	17 3	13 16			n.a.
T 9	22 43	22 34	5 12	24 46	1 4	22 54	1 20	10 33	1 15	18 14	1 2	20 20	1 22	20 11	0 5	10 49	1 27	8 15	15 43	17 24	17 4	13 13			n.a.
F 10	22 36	25 32	4 56	24 53	1 10	22 41	1 21	10 46	1 15	18 10	1 2	20 21	1 22	20 12	0 5	10 49	1 27	8 15	15 43	17 25	17 5	13 10			n.a.
S 11	22 27	27 10	4 25	24 58	1 16	22 28	1 22	10 59	1 15	18 6	1 2	20 22	1 22	20 13	0 5	10 48	1 27	8 14	15 42	17 26	17 6	13 7			n.a.
S 12	22 19	27 23	3 43	25 1	1 21	22 14	1 23	11 12	1 14	18 2	1 2	20 24	1 23	20 13	0 5	10 47	1 27	8 14	15 42	17 27	17 6	13 4			n.a.
M13	22 10	26 14	2 50	25 4	1 26	21 59	1 23	11 24	1 14	17 58	1 2	20 25	1 23	20 14	0 5	10 47	1 27	8 14	15 42	17 28	17 7	13 1			n.a.
T 14	22 1	23 51	1 51	25 5	1 31	21 44	1 24	11 37	1 14	17 54	1 2	20 26	1 23	20 14	0 5	10 46	1 27	8 13	15 41	17 29	17 8	12 57			n.a.
W15	21 51	20 27	0 47	25 4	1 36	21 28	1 25	11 49	1 13	17 50	1 2	20 27	1 23	20 15	0 5	10 45	1 26	8 13	15 41	17 29	17 9	12 54			n.a.
T 16	21 41	16 14	0n18	25 2	1 40	21 12	1 25	12 2	1 13	17 46	1 2	20 29	1 23	20 15	0 5	10 45	1 26	8 12	15 41	17 29	17 10	12 51			n.a.
F 17	21 30	11 26	1 23	24 58	1 44	20 54	1 26	12 14	1 13	17 42	1 2	20 30	1 23	20 16	0 5	10 44	1 26	8 12	15 40	17 29	17 11	12 48			n.a.
S 18	21 19	6 14	2 24	24 53	1 47	20 37	1 26	12 26	1 12	17 38	1 2	20 31	1 23	20 16	0 5	10 43	1 26	8 11	15 40	17 29	17 12	12 45			n.a.
S 19	21 8	0 49	3 19	24 46	1 51	20 18	1 27	12 38	1 12	17 34	1 2	20 33	1 24	20 17	0 5	10 43	1 26	8 11	15 40	17 28	17 13	12 42			n.a.
M20	20 56	4n40	4 5	24 37	1 53	19 59	1 27	12 50	1 11	17 29	1 2	20 34	1 24	20 18	0 5	10 42	1 26	8 11	15 39	17 28	17 14	12 39			n.a.
T 21	20 44	10 3	4 42	24 27	1 56	19 40	1 28	13 2	1 11	17 25	1 2	20 35	1 24	20 18	0 5	10 41	1 26	8 10	15 39	17 28	17 15	12 36			n.a.
W22	20 32	15 10	5 7	24 15	1 58	19 20	1 28	13 14	1 10	17 21	1 2	20 36	1 24	20 19	0 5	10 40	1 26	8 10	15 39	17 28	17 16	12 33			n.a.
T 23	20 19	19 46	5 17	24 1	2 0	18 59	1 28	13 26	1 10	17 17	1 2	20 38	1 24	20 19	0 5	10 40	1 26	8 9	15 38	17 28	17 16	12 30			n.a.
F 24	20 5	23 36	5 12	23 46	2 1	18 38	1 28	13 37	1 9	17 12	1 2	20 39	1 24	20 19	0 5	10 39	1 26	8 9	15 38	17 28	17 17	12 27			n.a.
S 25	19 52	26 17	4 50	23 28	2 2	18 16	1 28	13 49	1 9	17 8	1 2	20 40	1 24	20 20	0 5	10 38	1 26	8 8	15 38	17 28	17 18	12 24			n.a.
S 26	19 38	27 28	4 10	23 9	2 3	17 54	1 28	14 0	1 8	17 4	1 2	20 42	1 24	20 20	0 5	10 37	1 26	8 8	15 37	17 28	17 19	12 21			n.a.
M27	19 24	26 52	3 13	22 48	2 3	17 32	1 28	14 12	1 8	16 59	1 2	20 43	1 24	20 21	0 5	10 37	1 26	8 7	15 37	17 29	17 20	12 18			n.a.
T 28	19 9	24 22	2 3	22 25	2 3	17 8	1 28	14 23	1 7	16 55	1 2	20 44	1 24	20 21	0 5	10 36	1 26	8 7	15 37	17 29	17 21	12 15			n.a.
W29	18 54	20 9	0 42	22 1	2 2	16 45	1 28	14 34	1 7	16 51	1 2	20 45	1 25	20 22	0 5	10 35	1 26	8 6	15 36	17 29	17 22	12 12			n.a.
T 30	18 39	14 35	0s42	21 34	2 1	16 21	1 27	14 45	1 6	16 46	1 2	20 47	1 25	20 22	0 5	10 34	1 26	8 6	15 36	17 29	17 23	12 9			n.a.
F 31	18s23	8n 8	2s 3	21s 6	1s59	15s56	1s27	14s56	1n 6	16s42	1s 2	20n48	1n25	20s23	0n 5	10s34	1s26	8s 5	15s36	17s29	17s24	12s 6			n.a.

Julian Day Number = 1679784.5, Delta T = 03h16m06s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'23, Lahiri = - 5°31'22 Julian Calendar 1 Jan. 114 BCE == Greg. Calendar 29 Dec. 115 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

FEBRUARY 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 30 21	9♒21'23	19♍16	7♒ 6	22♒32	13♏47	17♒55	4°R 7	0♐22	6♓32	15♈49	11♒40	11♒56	25♒27	n.a.	S 1
S 2	8 34 18	10°21'28	3♎56	8°58	23°46	14°21	18° 9	4♌ 2	0°24	6°34	15°50	11°40	11°52	25°34	n.a.	S 2
M 3	8 38 14	11°21'32	18°13	10°51	25° 1	14°55	18°23	3°57	0°26	6°36	15°50	11°R40	11°49	25°41	n.a.	M 3
T 4	8 42 11	12°21'34	2♏ 5	12°45	26°16	15°29	18°38	3°53	0°27	6°38	15°51	11°40	11°46	25°47	n.a.	T 4
W 5	8 46 7	13°21'35	15°32	14°40	27°30	16° 2	18°52	3°48	0°29	6°40	15°52	11°D40	11°43	25°54	n.a.	W 5
T 6	8 50 4	14°21'34	28°37	16°36	28°45	16°36	19° 7	3°43	0°31	6°42	15°53	11°40	11°40	26° 1	n.a.	T 6
F 7	8 54 1	15°21'31	11♐21	18°32	29°59	17°10	19°21	3°38	0°32	6°45	15°53	11°41	11°37	26° 7	n.a.	F 7
S 8	8 57 57	16°21'27	23°48	20°29	1♓14	17°43	19°36	3°34	0°34	6°47	15°54	11°41	11°33	26°14	n.a.	S 8
S 9	9 1 54	17°21'21	6♑ 2	22°27	2°28	18°17	19°50	3°29	0°35	6°49	15°55	11°42	11°30	26°21	n.a.	S 9
M10	9 5 50	18°21'12	18° 6	24°25	3°43	18°50	20° 5	3°25	0°37	6°51	15°56	11°42	11°27	26°27	n.a.	M10
T 11	9 9 47	19°21'02	0♒ 1	26°23	4°57	19°23	20°19	3°20	0°38	6°53	15°56	11°43	11°24	26°34	n.a.	T 11
W12	9 13 43	20°20'50	11°52	28°21	6°11	19°57	20°34	3°16	0°39	6°55	15°57	11°R43	11°21	26°41	n.a.	W12
T 13	9 17 40	21°20'36	23°40	0♓18	7°26	20°30	20°48	3°11	0°41	6°58	15°58	11°43	11°17	26°47	n.a.	T 13
F 14	9 21 36	22°20'19	5♓28	2°15	8°40	21° 2	21° 3	3° 7	0°42	7° 0	15°59	11°42	11°14	26°54	n.a.	F 14
S 15	9 25 33	23°20'01	17°17	4°12	9°54	21°35	21°17	3° 2	0°43	7° 2	16° 0	11°41	11°11	27° 0	n.a.	S 15
S 16	9 29 30	24°19'40	29°10	6° 7	11° 9	22° 8	21°32	2°58	0°44	7° 4	16° 1	11°39	11° 8	27° 7	n.a.	S 16
M17	9 33 26	25°19'17	11♈ 9	8° 0	12°23	22°40	21°46	2°54	0°45	7° 6	16° 2	11°37	11° 5	27°14	n.a.	M17
T 18	9 37 23	26°18'51	23°18	9°51	13°37	23°13	22° 1	2°49	0°46	7° 9	16° 3	11°35	11° 2	27°20	n.a.	T 18
W19	9 41 19	27°18'23	5♉39	11°40	14°51	23°45	22°15	2°45	0°47	7°11	16° 3	11°33	10°58	27°27	n.a.	W19
T 20	9 45 16	28°17'53	18°17	13°26	16° 6	24°17	22°30	2°41	0°48	7°13	16° 4	11°32	10°55	27°34	n.a.	T 20
F 21	9 49 12	29°17'21	1♊14	15° 9	17°20	24°49	22°44	2°37	0°49	7°15	16° 5	11°D32	10°52	27°40	n.a.	F 21
S 22	9 53 9	0♓16'46	14°34	16°47	18°34	25°21	22°58	2°33	0°50	7°18	16° 6	11°32	10°49	27°47	n.a.	S 22
S 23	9 57 5	1°16'09	28°19	18°22	19°48	25°53	23°13	2°29	0°50	7°20	16° 7	11°33	10°46	27°54	n.a.	S 23
M24	10 1 2	2°15'29	12♋30	19°52	21° 2	26°25	23°27	2°25	0°51	7°22	16° 8	11°35	10°43	28° 0	n.a.	M24
T 25	10 4 59	3°14'47	27° 6	21°16	22°16	26°56	23°42	2°22	0°52	7°25	16° 9	11°36	10°39	28° 7	n.a.	T 25
W26	10 8 55	4°14'03	12♌ 2	22°35	23°30	27°27	23°56	2°18	0°52	7°27	16°10	11°R36	10°36	28°14	n.a.	W26
T 27	10 12 52	5°13'16	27°12	23°49	24°44	27°59	24°10	2°14	0°53	7°29	16°12	11°36	10°33	28°20	n.a.	T 27
F 28	10 16 48	6♓12'27	12♍26	24♓56	25♓58	28♏30	24♒25	2♌11	0♐54	7♓31	16♈13	11♒34	10♒30	28♒27	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	18s 7	1n19	3s14	20s35	1s57	15s31	1s27	15s 7	1n 5	16s37	1s 2	20n49	1n25	20s23	0n 5	10s33	1s26	8s 5	15s35	17s29	17s24	12s 3		n.a.	S 1
S 2	17 51	5s25	4 12	20 3	1 54	15 6	1 26	15 18	1 5	16 33	1 2	20 50	1 25	20 23	0 5	10 32	1 26	8 4	15 35	17 29	17 25	12 0		n.a.	S 2
M 3	17 34	11 42	4 52	19 29	1 51	14 40	1 26	15 29	1 4	16 28	1 2	20 52	1 25	20 24	0 5	10 31	1 26	8 4	15 35	17 29	17 26	11 57		n.a.	M 3
T 4	17 17	17 13	5 14	18 53	1 47	14 14	1 25	15 39	1 3	16 24	1 2	20 53	1 25	20 24	0 5	10 30	1 26	8 3	15 35	17 29	17 27	11 54		n.a.	T 4
W 5	17 0	21 43	5 17	18 15	1 42	13 48	1 24	15 50	1 3	16 19	1 2	20 54	1 25	20 24	0 5	10 30	1 26	8 2	15 34	17 29	17 28	11 50		n.a.	W 5
T 6	16 43	25 1	5 4	17 35	1 37	13 21	1 23	16 0	1 2	16 15	1 2	20 55	1 25	20 25	0 5	10 29	1 26	8 2	15 34	17 29	17 29	11 47		n.a.	T 6
F 7	16 25	26 57	4 36	16 53	1 31	12 53	1 23	16 10	1 1	16 10	1 2	20 56	1 25	20 25	0 5	10 28	1 26	8 1	15 34	17 29	17 30	11 44		n.a.	F 7
S 8	16 7	27 30	3 56	16 10	1 25	12 26	1 22	16 20	1 1	16 6	1 2	20 57	1 25	20 25	0 5	10 27	1 26	8 1	15 33	17 29	17 31	11 41		n.a.	S 8
S 9	15 48	26 40	3 6	15 25	1 18	11 58	1 21	16 30	1 0	16 1	1 2	20 59	1 25	20 26	0 5	10 26	1 26	8 0	15 33	17 28	17 32	11 38		n.a.	S 9
M10	15 30	24 35	2 8	14 39	1 11	11 30	1 20	16 40	0 59	15 56	1 2	21 0	1 25	20 26	0 5	10 25	1 26	8 0	15 33	17 28	17 33	11 35		n.a.	M10
T 11	15 11	21 26	1 5	13 51	1 3	11 1	1 19	16 50	0 58	15 52	1 2	21 1	1 25	20 26	0 5	10 25	1 26	7 59	15 32	17 28	17 33	11 32		n.a.	T 11
W12	14 52	17 25	0n 1	13 1	0 54	10 33	1 18	17 0	0 58	15 47	1 3	21 2	1 25	20 27	0 5	10 24	1 26	7 58	15 32	17 28	17 34	11 29		n.a.	W12
T 13	14 33	12 45	1 6	12 11	0 44	10 4	1 16	17 10	0 57	15 43	1 3	21 3	1 26	20 27	0 5	10 23	1 26	7 58	15 32	17 28	17 35	11 26		n.a.	T 13
F 14	14 13	7 38	2 8	11 19	0 34	9 34	1 15	17 19	0 56	15 38	1 3	21 4	1 26	20 27	0 5	10 22	1 26	7 57	15 32	17 28	17 36	11 23		n.a.	F 14
S 15	13 54	2 15	3 5	10 27	0 24	9 5	1 14	17 29	0 55	15 33	1 3	21 5	1 26	20 27	0 5	10 21	1 26	7 57	15 31	17 29	17 37	11 20		n.a.	S 15
S 16	13 34	3n14	3 54	9 34	0 13	8 35	1 13	17 38	0 54	15 29	1 3	21 6	1 26	20 28	0 5	10 20	1 26	7 56	15 31	17 29	17 38	11 17		n.a.	S 16
M17	13 14	8 38	4 33	8 41	0 1	8 5	1 11	17 47	0 54	15 24	1 3	21 7	1 26	20 28	0 5	10 20	1 26	7 56	15 31	17 30	17 39	11 14		n.a.	M17
T 18	12 53	13 47	5 0	7 48	0n10	7 35	1 10	17 56	0 53	15 19	1 3	21 8	1 26	20 28	0 5	10 19	1 26	7 55	15 30	17 30	17 40	11 10		n.a.	T 18
W19	12 33	18 29	5 15	6 55	0 23	7 4	1 8	18 5	0 52	15 14	1 3	21 9	1 26	20 28	0 5	10 18	1 26	7 54	15 30	17 31	17 40	11 7		n.a.	W19
T 20	12 12	22 29	5 14	6 2	0 35	6 34	1 6	18 14	0 51	15 10	1 3	21 10	1 26	20 29	0 5	10 17	1 26	7 54	15 30	17 31	17 41	11 4		n.a.	T 20
F 21	11 51	25 30	4 58	5 11	0 48	6 3	1 5	18 23	0 50	15 5	1 3	21 11	1 26	20 29	0 5	10 16	1 26	7 53	15 30	17 31	17 42	11 1		n.a.	F 21
S 22	11 30	27 12	4 25	4 20	1 1	5 32	1 3	18 31	0 49	15 0	1 3	21 12	1 26	20 29	0 5	10 15	1 26	7 53	15 29	17 31	17 43	10 58		n.a.	S 22
S 23	11 9	27 19	3 37	3 31	1 14	5 1	1 1	18 40	0 48	14 56	1 3	21 13	1 26	20 29	0 4	10 15	1 26	7 52	15 29	17 31	17 44	10 55		n.a.	S 23
M24	10 47	25 40	2 34	2 44	1 27	4 30	1 0	18 48	0 47	14 51	1 3	21 14	1 26	20 29	0 4	10 14	1 26	7 51	15 29	17 30	17 45	10 52		n.a.	M24
T 25	10 26	22 16	1 19	1 59	1 39	3 59	0 58	18 57	0 46	14 46	1 3	21 15	1 26	20 29	0 4	10 13	1 26	7 51	15 29	17 30	17 46	10 49		n.a.	T 25
W26	10 4	17 20	0s 2	1 16	1 52	3 28	0 56	19 5	0 45	14 41	1 3	21 16	1 26	20 30	0 4	10 12	1 26	7 50	15 28	17 30	17 47	10 46		n.a.	W26
T 27	9 42	11 15	1 25	0 35	2 4	2 56	0 54	19 13	0 44	14 37	1 3	21 17	1 26	20 30	0 4	10 11	1 26	7 50	15 28	17 30	17 47	10 43		n.a.	T 27
F 28	9s20	4n29	2s42	0n 2	2n16	2s25	0s52	19s21	0n43	14s32	1s 4	21n17	1n26	20s30	0n 4	10s10	1s26	7s49	15s28	17s31	17s48	10s39		n.a.	F 28

Julian Day Number = 1679815.5, Delta T = 03h16m05s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'19, Lahiri = - 5°31'18 Julian Calendar 1 Feb. 114 BCE == Greg. Calendar 29 Jan. 114 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

MARCH 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 20 45	7♓11'36	27♍36	25♓57	27♓12	29♏ 0	24♒39	2°R 7	0♐54	7♓34	16♈14	11°R31	10♒27	28♒34	n.a.	S 1
S 2	10 24 41	8°10'43	12♎30	26°52	28°25	29°31	24°53	2♌ 4	0°54	7°36	16°15	11♒27	10°23	28°40	n.a.	S 2
M 3	10 28 38	9° 9'47	27° 2	27°39	29°39	0♐ 2	25° 7	2° 0	0°55	7°38	16°16	11°24	10°20	28°47	n.a.	M 3
T 4	10 32 34	10° 8'51	11♏ 7	28°20	0♈53	0°32	25°22	1°57	0°55	7°40	16°17	11°20	10°17	28°54	n.a.	T 4
W 5	10 36 31	11° 7'52	24°43	28°54	2° 7	1° 2	25°36	1°54	0°55	7°43	16°18	11°18	10°14	29° 0	n.a.	W 5
T 6	10 40 28	12° 6'51	7♐52	29°21	3°20	1°32	25°50	1°51	0°55	7°45	16°19	11°D17	10°11	29° 7	n.a.	T 6
F 7	10 44 24	13° 5'49	20°36	29°41	4°34	2° 2	26° 4	1°48	0°56	7°47	16°20	11°17	10° 8	29°13	n.a.	F 7
S 8	10 48 21	14° 4'45	3♑ 0	29°53	5°47	2°32	26°18	1°45	0°56	7°49	16°22	11°18	10° 4	29°20	n.a.	S 8
S 9	10 52 17	15° 3'38	15° 8	29°R59	7° 1	3° 2	26°33	1°42	0°R56	7°52	16°23	11°20	10° 1	29°27	n.a.	S 9
M10	10 56 14	16° 2'30	27° 5	29°58	8°15	3°31	26°47	1°39	0°56	7°54	16°24	11°21	9°58	29°33	n.a.	M10
T 11	11 0 10	17° 1'20	8♒54	29°51	9°28	4° 0	27° 1	1°36	0°56	7°56	16°25	11°R22	9°55	29°40	n.a.	T 11
W12	11 4 7	18° 0'09	20°41	29°37	10°42	4°29	27°15	1°34	0°56	7°58	16°26	11°22	9°52	29°47	n.a.	W12
T 13	11 8 3	18°58'55	2♓28	29°18	11°55	4°57	27°29	1°31	0°55	8° 1	16°28	11°20	9°48	29°53	n.a.	T 13
F 14	11 12 0	19°57'39	14°17	28°53	13° 8	5°26	27°43	1°29	0°55	8° 3	16°29	11°15	9°45	0♓ 0	n.a.	F 14
S 15	11 15 56	20°56'21	26°12	28°23	14°22	5°54	27°56	1°27	0°55	8° 5	16°30	11°10	9°42	0° 7	n.a.	S 15
S 16	11 19 53	21°55'01	8♈13	27°50	15°35	6°22	28°10	1°24	0°55	8° 7	16°31	11° 3	9°39	0°13	n.a.	S 16
M17	11 23 50	22°53'38	20°23	27°13	16°48	6°50	28°24	1°22	0°54	8°10	16°33	10°55	9°36	0°20	n.a.	M17
T 18	11 27 46	23°52'14	2♉42	26°33	18° 2	7°17	28°38	1°20	0°54	8°12	16°34	10°47	9°33	0°27	n.a.	T 18
W19	11 31 43	24°50'48	15°12	25°51	19°15	7°45	28°52	1°18	0°53	8°14	16°35	10°40	9°29	0°33	n.a.	W19
T 20	11 35 39	25°49'19	27°56	25° 8	20°28	8°12	29° 5	1°17	0°53	8°16	16°36	10°35	9°26	0°40	n.a.	T 20
F 21	11 39 36	26°47'48	10♊54	24°25	21°41	8°38	29°19	1°15	0°52	8°18	16°38	10°32	9°23	0°47	n.a.	F 21
S 22	11 43 32	27°46'15	24°11	23°42	22°54	9° 5	29°33	1°13	0°51	8°21	16°39	10°D31	9°20	0°53	n.a.	S 22
S 23	11 47 29	28°44'40	7♋47	23° 1	24° 7	9°31	29°46	1°12	0°51	8°23	16°40	10°31	9°17	1° 0	n.a.	S 23
M24	11 51 25	29°43'02	21°45	22°21	25°20	9°57	29°59	1°10	0°50	8°25	16°42	10°32	9°14	1° 7	n.a.	M24
T 25	11 55 22	0♈41'23	6♌ 4	21°44	26°33	10°23	0♓13	1° 9	0°49	8°27	16°43	10°R33	9°10	1°13	n.a.	T 25
W26	11 59 19	1°39'41	20°43	21°10	27°46	10°48	0°27	1° 8	0°49	8°29	16°44	10°32	9° 7	1°20	n.a.	W26
T 27	12 3 15	2°37'56	5♍38	20°40	28°59	11°13	0°40	1° 7	0°48	8°31	16°46	10°30	9° 4	1°27	n.a.	T 27
F 28	12 7 12	3°36'10	20°42	20°14	0♉11	11°38	0°53	1° 6	0°47	8°33	16°47	10°26	9° 1	1°33	n.a.	F 28
S 29	12 11 8	4°34'22	5♎45	19°52	1°24	12° 3	1° 6	1° 5	0°46	8°35	16°48	10°19	8°58	1°40	n.a.	S 29
S 30	12 15 5	5°32'32	20°39	19°35	2°37	12°27	1°20	1° 4	0°45	8°38	16°50	10°11	8°54	1°47	n.a.	S 30
M31	12 19 1	6♈30'40	5♏15	19♓22	3♉49	12♐51	1♓33	1♌ 3	0♐44	8♓40	16♈51	10♒ 2	8♒51	1♓53	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s58	2s29	3s47	0n37	2n27	1s53	0s50	19s29	0n42	14s27	1s 4	21n18	1n26	20s30	0n 4	10s 9	1s26	7s48	15s28	17s31	17s49	10s36		n.a.
S 2	8 36	9 12	4 35	1 8	2 37	1 22	0 48	19 37	0 41	14 22	1 4	21 19	1 26	20 30	0 4	10 9	1 26	7 48	15 28	17 32	17 50	10 33		n.a.
M 3	8 13	15 15	5 4	1 36	2 47	0 50	0 45	19 45	0 40	14 18	1 4	21 20	1 26	20 30	0 4	10 8	1 26	7 47	15 27	17 33	17 51	10 30		n.a.
T 4	7 51	20 18	5 14	2 1	2 56	0 18	0 43	19 52	0 38	14 13	1 4	21 21	1 26	20 30	0 4	10 7	1 26	7 46	15 27	17 34	17 52	10 27		n.a.
W 5	7 28	24 6	5 5	2 22	3 4	0n13	0 41	20 0	0 37	14 8	1 4	21 21	1 26	20 30	0 4	10 6	1 26	7 46	15 27	17 35	17 53	10 24		n.a.
T 6	7 6	26 29	4 41	2 38	3 10	0 45	0 39	20 7	0 36	14 3	1 4	21 22	1 26	20 30	0 4	10 5	1 26	7 45	15 27	17 35	17 54	10 21		n.a.
F 7	6 43	27 25	4 3	2 52	3 16	1 17	0 36	20 14	0 35	13 58	1 4	21 23	1 26	20 30	0 4	10 4	1 26	7 45	15 27	17 35	17 54	10 18		n.a.
S 8	6 20	26 55	3 15	3 1	3 20	1 48	0 34	20 22	0 33	13 54	1 4	21 23	1 26	20 30	0 4	10 4	1 26	7 44	15 26	17 35	17 55	10 15		n.a.
S 9	5 57	25 8	2 19	3 6	3 23	2 20	0 32	20 29	0 32	13 49	1 4	21 24	1 26	20 30	0 4	10 3	1 26	7 43	15 26	17 35	17 56	10 11		n.a.
M10	5 34	22 15	1 17	3 7	3 25	2 52	0 29	20 36	0 31	13 44	1 4	21 24	1 26	20 30	0 4	10 2	1 26	7 43	15 26	17 34	17 57	10 8		n.a.
T 11	5 11	18 27	0 13	3 4	3 25	3 23	0 27	20 42	0 29	13 39	1 5	21 25	1 26	20 30	0 4	10 1	1 26	7 42	15 26	17 34	17 58	10 5		n.a.
W12	4 48	13 58	0n51	2 58	3 24	3 55	0 24	20 49	0 28	13 35	1 5	21 26	1 26	20 30	0 4	10 0	1 26	7 42	15 26	17 34	17 59	10 2		n.a.
T 13	4 24	8 58	1 53	2 47	3 21	4 26	0 22	20 56	0 26	13 30	1 5	21 26	1 26	20 30	0 4	9 59	1 26	7 41	15 25	17 35	18 0	9 59		n.a.
F 14	4 1	3 39	2 50	2 33	3 17	4 57	0 19	21 3	0 25	13 25	1 5	21 27	1 26	20 30	0 4	9 58	1 26	7 40	15 25	17 36	18 0	9 56		n.a.
S 15	3 38	1n49	3 40	2 16	3 11	5 28	0 16	21 9	0 23	13 20	1 5	21 27	1 25	20 30	0 4	9 58	1 26	7 40	15 25	17 37	18 1	9 53		n.a.
S 16	3 14	7 16	4 20	1 56	3 4	6 0	0 14	21 15	0 22	13 16	1 5	21 28	1 25	20 30	0 4	9 57	1 26	7 39	15 25	17 39	18 2	9 50		n.a.
M17	2 51	12 30	4 49	1 33	2 55	6 30	0 11	21 22	0 20	13 11	1 5	21 28	1 25	20 30	0 4	9 56	1 26	7 38	15 25	17 41	18 3	9 46		n.a.
T 18	2 28	17 19	5 6	1 7	2 44	7 1	0 8	21 28	0 19	13 6	1 5	21 28	1 25	20 30	0 4	9 55	1 26	7 38	15 25	17 44	18 4	9 43		n.a.
W19	2 4	21 28	5 8	0 40	2 33	7 32	0 6	21 34	0 17	13 1	1 5	21 29	1 25	20 30	0 4	9 54	1 26	7 37	15 24	17 45	18 5	9 40		n.a.
T 20	1 41	24 42	4 55	0 11	2 20	8 2	0 3	21 40	0 15	12 57	1 6	21 29	1 25	20 30	0 4	9 54	1 26	7 37	15 24	17 47	18 6	9 37		n.a.
F 21	1 17	26 44	4 27	0s19	2 6	8 32	0 0	21 46	0 14	12 52	1 6	21 30	1 25	20 30	0 4	9 53	1 26	7 36	15 24	17 48	18 6	9 34		n.a.
S 22	0 54	27 19	3 44	0 50	1 51	9 3	0n 3	21 52	0 12	12 47	1 6	21 30	1 25	20 29	0 4	9 52	1 26	7 35	15 24	17 48	18 7	9 31		n.a.
S 23	0 30	26 16	2 47	1 21	1 36	9 32	0 5	21 58	0 10	12 43	1 6	21 30	1 25	20 29	0 4	9 51	1 26	7 35	15 24	17 48	18 8	9 28		n.a.
M24	0 7	23 34	1 40	1 51	1 20	10 2	0 8	22 3	0 8	12 38	1 6	21 30	1 25	20 29	0 4	9 50	1 26	7 34	15 24	17 48	18 9	9 24		n.a.
T 25	0n17	19 21	0 24	2 21	1 3	10 31	0 11	22 9	0 7	12 33	1 6	21 31	1 25	20 29	0 4	9 50	1 26	7 34	15 24	17 48	18 10	9 21		n.a.
W26	0 40	13 53	0s55	2 49	0 47	11 1	0 14	22 14	0 5	12 28	1 6	21 31	1 25	20 29	0 4	9 49	1 26	7 33	15 24	17 48	18 11	9 18		n.a.
T 27	1 3	7 31	2 11	3 17	0 30	11 30	0 17	22 20	0 3	12 24	1 7	21 31	1 25	20 29	0 4	9 48	1 26	7 32	15 24	17 48	18 12	9 15		n.a.
F 28	1 27	0 42	3 19	3 42	0 14	11 58	0 19	22 25	0 1	12 19	1 7	21 31	1 25	20 29	0 4	9 47	1 26	7 32	15 23	17 49	18 12	9 12		n.a.
S 29	1 50	6s10	4 12	4 6	0s 2	12 26	0 22	22 31	0s 1	12 15	1 7	21 31	1 25	20 28	0 4	9 46	1 27	7 31	15 23	17 51	18 13	9 9		n.a.
S 30	2 14	12 36	4 48	4 27	0 18	12 55	0 25	22 36	0 3	12 10	1 7	21 32	1 25	20 28	0 4	9 46	1 27	7 31	15 23	17 54	18 14	9 6		n.a.
M31	2n37	18s11	5s 5	4s46	0s34	13n22	0n28	22s41	0s 5	12s 5	1s 7	21n32	1n25	20s28	0n 4	9s45	1s27	7s30	15s23	17s56	18s15	9s 2		n.a.

Julian Day Number = 1679843.5, Delta T = 03h16m04s
Ecliptic obliquity = 23°42'39, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'15, Lahiri = - 5°31'14 Julian Calendar 1 March 114 BCE == Greg. Calendar 26 Feb. 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

APRIL 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 22 58	7♈28'46	19♏26	19°R14	5♉ 2	13♐14	1♓46	1°R 3	0°R43	8♓42	16♈52	9°R54	8♒48	2♓ 0	n.a.	T 1
W 2	12 26 54	8°26'51	3♐ 9	19°D11	6°14	13°38	1°59	1♌ 2	0♐41	8°44	16°54	9♒47	8°45	2° 7	n.a.	W 2
T 3	12 30 51	9°24'55	16°24	19♓13	7°27	14° 0	2°12	1° 2	0°40	8°46	16°55	9°43	8°42	2°13	n.a.	T 3
F 4	12 34 48	10°22'57	29°12	19°20	8°39	14°23	2°25	1° 2	0°39	8°48	16°56	9°40	8°39	2°20	n.a.	F 4
S 5	12 38 44	11°20'58	11♑37	19°31	9°52	14°45	2°38	1° 1	0°38	8°50	16°58	9°D39	8°35	2°27	n.a.	S 5
S 6	12 42 41	12°18'57	23°45	19°47	11° 4	15° 7	2°50	1°D 1	0°36	8°52	16°59	9°40	8°32	2°33	n.a.	S 6
M 7	12 46 37	13°16'54	5♒41	20° 8	12°16	15°28	3° 3	1° 1	0°35	8°54	17° 0	9°R40	8°29	2°40	n.a.	M 7
T 8	12 50 34	14°14'51	17°30	20°33	13°29	15°49	3°16	1° 2	0°34	8°56	17° 2	9°40	8°26	2°46	n.a.	T 8
W 9	12 54 30	15°12'45	29°16	21° 2	14°41	16°10	3°28	1° 2	0°32	8°57	17° 3	9°38	8°23	2°53	n.a.	W 9
T 10	12 58 27	16°10'38	11♓ 5	21°36	15°53	16°30	3°41	1° 2	0°31	8°59	17° 4	9°34	8°20	3° 0	n.a.	T 10
F 11	13 2 23	17° 8'30	22°59	22°13	17° 5	16°50	3°53	1° 3	0°29	9° 1	17° 6	9°27	8°16	3° 6	n.a.	F 11
S 12	13 6 20	18° 6'21	5♈ 1	22°54	18°17	17° 9	4° 5	1° 3	0°28	9° 3	17° 7	9°18	8°13	3°13	n.a.	S 12
S 13	13 10 16	19° 4'09	17°14	23°39	19°29	17°28	4°18	1° 4	0°26	9° 5	17° 8	9° 6	8°10	3°20	n.a.	S 13
M14	13 14 13	20° 1'57	29°37	24°28	20°41	17°46	4°30	1° 5	0°24	9° 7	17°10	8°54	8° 7	3°26	n.a.	M14
T 15	13 18 10	20°59'42	12♉12	25°19	21°53	18° 4	4°42	1° 5	0°23	9° 9	17°11	8°42	8° 4	3°33	n.a.	T 15
W16	13 22 6	21°57'27	24°58	26°14	23° 5	18°21	4°54	1° 6	0°21	9°10	17°13	8°30	8° 0	3°40	n.a.	W16
T 17	13 26 3	22°55'09	7♊56	27°13	24°17	18°38	5° 6	1° 8	0°19	9°12	17°14	8°22	7°57	3°46	n.a.	T 17
F 18	13 29 59	23°52'51	21° 7	28°14	25°28	18°55	5°18	1° 9	0°18	9°14	17°15	8°15	7°54	3°53	n.a.	F 18
S 19	13 33 56	24°50'30	4♋30	29°18	26°40	19°11	5°30	1°10	0°16	9°16	17°17	8°12	7°51	4° 0	n.a.	S 19
S 20	13 37 52	25°48'08	18° 7	0♈26	27°52	19°26	5°41	1°11	0°14	9°17	17°18	8°10	7°48	4° 6	n.a.	S 20
M21	13 41 49	26°45'44	1♌58	1°36	29° 3	19°41	5°53	1°13	0°12	9°19	17°19	8°10	7°45	4°13	n.a.	M21
T 22	13 45 45	27°43'18	16° 5	2°49	0♊15	19°55	6° 4	1°15	0°10	9°21	17°21	8°10	7°41	4°20	n.a.	T 22
W23	13 49 42	28°40'51	0♍27	4° 4	1°26	20° 9	6°16	1°16	0° 8	9°22	17°22	8° 9	7°38	4°26	n.a.	W23
T 24	13 53 39	29°38'22	15° 1	5°22	2°37	20°22	6°27	1°18	0° 6	9°24	17°23	8° 5	7°35	4°33	n.a.	T 24
F 25	13 57 35	0♉35'52	29°43	6°43	3°49	20°35	6°38	1°20	0° 4	9°26	17°25	7°59	7°32	4°40	n.a.	F 25
S 26	14 1 32	1°33'20	14♎26	8° 6	5° 0	20°47	6°50	1°22	0° 2	9°27	17°26	7°50	7°29	4°46	n.a.	S 26
S 27	14 5 28	2°30'47	29° 4	9°32	6°11	20°58	7° 1	1°24	0° 0	9°29	17°27	7°40	7°25	4°53	n.a.	S 27
M28	14 9 25	3°28'13	13♏29	11° 0	7°22	21° 9	7°12	1°26	29♏58	9°30	17°29	7°28	7°22	5° 0	n.a.	M28
T 29	14 13 21	4°25'38	27°33	12°31	8°33	21°20	7°23	1°29	29°56	9°32	17°30	7°17	7°19	5° 6	n.a.	T 29
W30	14 17 18	5♉23'02	11♐13	14♈ 5	9♊44	21♐29	7♓33	1♌31	29♏54	9♓33	17♈31	7♒ 8	7♒16	5♓13	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 0	22s37	5s 1	5s 3	0s48	13n50	0n31	22s46	0s 8	12s 1	1s 7	21n32	1n25	20s28	0n 4	9s44	1s27	7s30	15s23	17s58	18s16	8s59		n.a.
W 2	3 23	25 37	4 41	5 17	1 2	14 17	0 34	22 51	0 10	11 56	1 7	21 32	1 25	20 27	0 4	9 43	1 27	7 29	15 23	18 0	18 17	8 56		n.a.
T 3	3 46	27 5	4 6	5 28	1 16	14 44	0 36	22 56	0 12	11 52	1 8	21 32	1 25	20 27	0 4	9 43	1 27	7 28	15 23	18 1	18 17	8 53		n.a.
F 4	4 9	27 2	3 19	5 37	1 28	15 10	0 39	23 1	0 14	11 47	1 8	21 32	1 24	20 27	0 4	9 42	1 27	7 28	15 23	18 2	18 18	8 50		n.a.
S 5	4 32	25 35	2 24	5 44	1 40	15 36	0 42	23 6	0 16	11 43	1 8	21 32	1 24	20 27	0 4	9 41	1 27	7 27	15 23	18 2	18 19	8 47		n.a.
S 6	4 55	22 59	1 24	5 47	1 51	16 2	0 45	23 11	0 19	11 38	1 8	21 32	1 24	20 26	0 4	9 41	1 27	7 27	15 23	18 2	18 20	8 44		n.a.
M 7	5 18	19 24	0 21	5 49	2 2	16 27	0 48	23 16	0 21	11 34	1 8	21 32	1 24	20 26	0 4	9 40	1 27	7 26	15 23	18 2	18 21	8 40		n.a.
T 8	5 41	15 6	0n42	5 47	2 11	16 52	0 50	23 20	0 24	11 29	1 8	21 32	1 24	20 26	0 4	9 39	1 27	7 26	15 23	18 2	18 22	8 37		n.a.
W 9	6 3	10 15	1 43	5 44	2 20	17 16	0 53	23 25	0 26	11 25	1 9	21 31	1 24	20 26	0 4	9 38	1 27	7 25	15 23	18 2	18 22	8 34		n.a.
T 10	6 26	5 2	2 39	5 38	2 28	17 40	0 56	23 30	0 29	11 20	1 9	21 31	1 24	20 25	0 4	9 38	1 27	7 25	15 23	18 4	18 23	8 31		n.a.
F 11	6 48	0n23	3 29	5 29	2 35	18 4	0 59	23 34	0 31	11 16	1 9	21 31	1 24	20 25	0 4	9 37	1 27	7 24	15 23	18 5	18 24	8 28		n.a.
S 12	7 11	5 50	4 10	5 18	2 41	18 27	1 1	23 39	0 34	11 11	1 9	21 31	1 24	20 25	0 4	9 36	1 27	7 23	15 23	18 8	18 25	8 25		n.a.
S 13	7 33	11 9	4 40	5 6	2 47	18 50	1 4	23 43	0 37	11 7	1 9	21 31	1 24	20 24	0 4	9 36	1 27	7 23	15 23	18 11	18 26	8 21		n.a.
M14	7 55	16 5	4 58	4 50	2 51	19 12	1 7	23 48	0 40	11 3	1 9	21 30	1 24	20 24	0 4	9 35	1 27	7 22	15 23	18 14	18 27	8 18		n.a.
T 15	8 17	20 26	5 1	4 33	2 55	19 33	1 9	23 52	0 42	10 58	1 10	21 30	1 24	20 24	0 4	9 34	1 27	7 22	15 23	18 18	18 27	8 15		n.a.
W16	8 39	23 54	4 49	4 14	2 58	19 55	1 12	23 57	0 45	10 54	1 10	21 30	1 24	20 23	0 4	9 34	1 27	7 21	15 23	18 20	18 28	8 12		n.a.
T 17	9 1	26 12	4 23	3 53	3 1	20 15	1 14	24 1	0 48	10 50	1 10	21 30	1 24	20 23	0 4	9 33	1 27	7 21	15 23	18 23	18 29	8 9		n.a.
F 18	9 22	27 6	3 42	3 30	3 3	20 35	1 17	24 5	0 51	10 46	1 10	21 29	1 24	20 22	0 4	9 32	1 27	7 20	15 23	18 24	18 30	8 6		n.a.
S 19	9 44	26 26	2 48	3 5	3 4	20 55	1 19	24 10	0 54	10 41	1 10	21 29	1 23	20 22	0 4	9 32	1 27	7 20	15 23	18 25	18 31	8 2		n.a.
S 20	10 5	24 11	1 44	2 38	3 4	21 14	1 22	24 14	0 57	10 37	1 11	21 29	1 23	20 22	0 4	9 31	1 27	7 19	15 23	18 26	18 32	7 59		n.a.
M21	10 26	20 29	0 33	2 9	3 3	21 32	1 24	24 18	1 0	10 33	1 11	21 28	1 23	20 21	0 4	9 31	1 27	7 19	15 23	18 26	18 32	7 56		n.a.
T 22	10 47	15 32	0s42	1 39	3 2	21 50	1 27	24 23	1 4	10 29	1 11	21 28	1 23	20 21	0 4	9 30	1 27	7 18	15 23	18 26	18 33	7 53		n.a.
W23	11 8	9 39	1 55	1 7	3 1	22 8	1 29	24 27	1 7	10 25	1 11	21 27	1 23	20 21	0 4	9 29	1 27	7 18	15 23	18 26	18 34	7 50		n.a.
T 24	11 28	3 11	3 2	0 34	2 58	22 25	1 31	24 31	1 10	10 21	1 11	21 27	1 23	20 20	0 4	9 29	1 27	7 18	15 23	18 27	18 35	7 47		n.a.
F 25	11 49	3s30	3 57	0n 1	2 55	22 41	1 33	24 36	1 14	10 17	1 12	21 26	1 23	20 20	0 4	9 28	1 28	7 17	15 23	18 29	18 36	7 43		n.a.
S 26	12 9	9 59	4 36	0 38	2 52	22 56	1 35	24 40	1 17	10 13	1 12	21 26	1 23	20 19	0 4	9 28	1 28	7 17	15 23	18 31	18 37	7 40		n.a.
S 27	12 29	15 53	4 57	1 16	2 47	23 11	1 38	24 44	1 20	10 9	1 12	21 25	1 23	20 19	0 4	9 27	1 28	7 16	15 23	18 34	18 37	7 37		n.a.
M28	12 49	20 48	4 59	1 55	2 43	23 25	1 40	24 49	1 24	10 5	1 12	21 25	1 23	20 18	0 4	9 27	1 28	7 16	15 23	18 37	18 38	7 34		n.a.
T 29	13 8	24 25	4 42	2 36	2 37	23 39	1 42	24 53	1 28	10 1	1 12	21 24	1 23	20 18	0 4	9 26	1 28	7 15	15 23	18 40	18 39	7 31		n.a.
W30	13n28	26s30	4s10	3n18	2s31	23n52	1n44	24s57	1s31	9s57	1s13	21n24	1n23	20s17	0n 4	9s26	1s28	7s15	15s23	18s42	18s40	7s27		n.a.

Julian Day Number = 1679874.5, Delta T = 03h16m03s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'11, Lahiri = - 5°31'10 Julian Calendar 1 Apr. 114 BCE == Greg. Calendar 29 March 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

MAY 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 14	6♉20'25	24♐28	15♈40	10♊55	21♐38	7♓44	1♌33	29°R52	9♓35	17♈33	7°R 1	7♒13	5♓20	n.a.	T 1
F 2	14 25 11	7°17'48	7♑17	17°19	12° 6	21°46	7°55	1°36	29♏49	9°36	17°34	6♒56	7°10	5°26	n.a.	F 2
S 3	14 29 8	8°15'09	19°45	18°59	13°16	21°54	8° 5	1°39	29°47	9°37	17°35	6°54	7° 6	5°33	n.a.	S 3
S 4	14 33 4	9°12'30	1♒55	20°42	14°27	22° 1	8°15	1°41	29°45	9°39	17°36	6°53	7° 3	5°40	n.a.	S 4
M 5	14 37 1	10° 9'50	13°52	22°28	15°38	22° 7	8°26	1°44	29°43	9°40	17°38	6°53	7° 0	5°46	n.a.	M 5
T 6	14 40 57	11° 7'09	25°42	24°15	16°48	22°13	8°36	1°47	29°41	9°41	17°39	6°53	6°57	5°53	n.a.	T 6
W 7	14 44 54	12° 4'28	7♓31	26° 6	17°59	22°18	8°46	1°50	29°38	9°43	17°40	6°51	6°54	6° 0	n.a.	W 7
T 8	14 48 50	13° 1'46	19°22	27°58	19° 9	22°22	8°56	1°53	29°36	9°44	17°42	6°46	6°51	6° 6	n.a.	T 8
F 9	14 52 47	13°59'03	1♈21	29°53	20°19	22°25	9° 5	1°57	29°34	9°45	17°43	6°40	6°47	6°13	n.a.	F 9
S 10	14 56 43	14°56'20	13°32	1♉50	21°29	22°28	9°15	2° 0	29°31	9°46	17°44	6°30	6°44	6°20	n.a.	S 10
S 11	15 0 40	15°53'36	25°55	3°49	22°40	22°30	9°25	2° 3	29°29	9°48	17°45	6°19	6°41	6°26	n.a.	S 11
M12	15 4 37	16°50'52	8♉33	5°51	23°50	22°31	9°34	2° 7	29°27	9°49	17°46	6° 6	6°38	6°33	n.a.	M12
T 13	15 8 33	17°48'07	21°26	7°54	25° 0	22°R32	9°44	2°11	29°24	9°50	17°48	5°54	6°35	6°40	n.a.	T 13
W14	15 12 30	18°45'21	4♊33	9°59	26°10	22°31	9°53	2°14	29°22	9°51	17°49	5°42	6°31	6°46	n.a.	W14
T 15	15 16 26	19°42'35	17°52	12° 5	27°19	22°30	10° 2	2°18	29°19	9°52	17°50	5°33	6°28	6°53	n.a.	T 15
F 16	15 20 23	20°39'48	1♋22	14°13	28°29	22°28	10°11	2°22	29°17	9°53	17°51	5°27	6°25	7° 0	n.a.	F 16
S 17	15 24 19	21°37'00	15° 2	16°23	29°39	22°26	10°20	2°26	29°15	9°54	17°52	5°23	6°22	7° 6	n.a.	S 17
S 18	15 28 16	22°34'11	28°51	18°33	0♋48	22°23	10°28	2°30	29°12	9°55	17°54	5°22	6°19	7°13	n.a.	S 18
M19	15 32 13	23°31'22	12♌47	20°44	1°58	22°18	10°37	2°34	29°10	9°56	17°55	5°D22	6°16	7°20	n.a.	M19
T 20	15 36 9	24°28'32	26°52	22°55	3° 7	22°14	10°45	2°38	29° 7	9°57	17°56	5°R22	6°12	7°26	n.a.	T 20
W21	15 40 6	25°25'40	11♍ 3	25° 7	4°17	22° 8	10°54	2°42	29° 5	9°58	17°57	5°21	6° 9	7°33	n.a.	W21
T 22	15 44 2	26°22'49	25°19	27°18	5°26	22° 2	11° 2	2°47	29° 2	9°58	17°58	5°18	6° 6	7°40	n.a.	T 22
F 23	15 47 59	27°19'56	9♎39	29°29	6°35	21°55	11°10	2°51	29° 0	9°59	17°59	5°13	6° 3	7°46	n.a.	F 23
S 24	15 51 55	28°17'03	23°57	1♊39	7°44	21°47	11°18	2°56	28°58	10° 0	18° 0	5° 5	6° 0	7°53	n.a.	S 24
S 25	15 55 52	29°14'10	8♏10	3°49	8°53	21°39	11°25	3° 0	28°55	10° 1	18° 1	4°56	5°57	8° 0	n.a.	S 25
M26	15 59 48	0♊11'16	22°12	5°57	10° 1	21°30	11°33	3° 5	28°53	10° 2	18° 2	4°46	5°53	8° 6	n.a.	M26
T 27	16 3 45	1° 8'22	5♐57	8° 4	11°10	21°20	11°41	3°10	28°50	10° 2	18° 3	4°36	5°50	8°13	n.a.	T 27
W28	16 7 42	2° 5'28	19°24	10°10	12°18	21°10	11°48	3°14	28°48	10° 3	18° 5	4°27	5°47	8°20	n.a.	W28
T 29	16 11 38	3° 2'34	2♑30	12°14	13°27	20°59	11°55	3°19	28°45	10° 4	18° 6	4°21	5°44	8°26	n.a.	T 29
F 30	16 15 35	3°59'39	15°14	14°16	14°35	20°47	12° 2	3°24	28°43	10° 4	18° 7	4°17	5°41	8°33	n.a.	F 30
S 31	16 19 31	4♊56'45	27♑40	16♊17	15♋43	20♐35	12♓ 9	3♌29	28♏40	10♓ 5	18♈ 8	4♒15	5♒37	8♓40	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13n47	27s 0	3s24	4n 1	2s25	24n 4	1n45	25s 1	1s35	9s53	1s13	21n23	1n23	20s17	0n 4	9s25	1s28	7s14	15s23	18s44	18s41	7s24		n.a.
F 2	14 6	26 0	2 30	4 45	2 18	24 16	1 47	25 6	1 39	9 49	1 13	21 22	1 23	20 17	0 4	9 25	1 28	7 14	15 23	18 45	18 41	7 21		n.a.
S 3	14 25	23 43	1 29	5 31	2 10	24 27	1 49	25 10	1 43	9 46	1 13	21 22	1 23	20 16	0 4	9 24	1 28	7 14	15 23	18 45	18 42	7 18		n.a.
S 4	14 44	20 23	0 26	6 17	2 2	24 38	1 51	25 14	1 47	9 42	1 13	21 21	1 23	20 16	0 4	9 24	1 28	7 13	15 23	18 46	18 43	7 15		n.a.
M 5	15 2	16 16	0n37	7 5	1 54	24 47	1 52	25 19	1 51	9 38	1 14	21 20	1 22	20 15	0 4	9 23	1 28	7 13	15 23	18 46	18 44	7 12		n.a.
T 6	15 20	11 34	1 38	7 53	1 45	24 56	1 54	25 23	1 55	9 35	1 14	21 19	1 22	20 15	0 4	9 23	1 28	7 13	15 24	18 46	18 45	7 8		n.a.
W 7	15 38	6 28	2 35	8 42	1 36	25 5	1 55	25 27	1 59	9 31	1 14	21 19	1 22	20 14	0 4	9 22	1 28	7 12	15 24	18 46	18 46	7 5		n.a.
T 8	15 56	1 7	3 25	9 32	1 26	25 12	1 57	25 32	2 3	9 28	1 14	21 18	1 22	20 14	0 4	9 22	1 28	7 12	15 24	18 47	18 46	7 2		n.a.
F 9	16 13	4n18	4 6	10 22	1 16	25 19	1 58	25 36	2 7	9 24	1 15	21 17	1 22	20 13	0 4	9 21	1 28	7 11	15 24	18 49	18 47	6 59		n.a.
S 10	16 30	9 39	4 37	11 13	1 6	25 25	1 59	25 40	2 11	9 21	1 15	21 16	1 22	20 13	0 4	9 21	1 28	7 11	15 24	18 52	18 48	6 56		n.a.
S 11	16 47	14 42	4 56	12 4	0 55	25 31	2 1	25 45	2 15	9 17	1 15	21 15	1 22	20 12	0 4	9 21	1 28	7 11	15 24	18 54	18 49	6 52		n.a.
M12	17 4	19 14	5 0	12 55	0 44	25 36	2 2	25 49	2 20	9 14	1 15	21 15	1 22	20 12	0 4	9 20	1 28	7 10	15 24	18 58	18 50	6 49		n.a.
T 13	17 20	22 59	4 50	13 46	0 34	25 40	2 3	25 54	2 24	9 10	1 16	21 14	1 22	20 11	0 4	9 20	1 28	7 10	15 24	19 1	18 50	6 46		n.a.
W14	17 36	25 37	4 24	14 37	0 23	25 43	2 4	25 58	2 28	9 7	1 16	21 13	1 22	20 11	0 4	9 20	1 28	7 10	15 25	19 4	18 51	6 43		n.a.
T 15	17 52	26 51	3 43	15 27	0 12	25 46	2 5	26 2	2 33	9 4	1 16	21 12	1 22	20 10	0 4	9 19	1 29	7 9	15 25	19 6	18 52	6 40		n.a.
F 16	18 7	26 32	2 50	16 16	0 1	25 48	2 5	26 7	2 37	9 1	1 16	21 11	1 22	20 10	0 4	9 19	1 29	7 9	15 25	19 7	18 53	6 37		n.a.
S 17	18 22	24 36	1 46	17 5	0n10	25 49	2 6	26 11	2 42	8 58	1 17	21 10	1 22	20 9	0 4	9 18	1 29	7 9	15 25	19 8	18 54	6 33		n.a.
S 18	18 37	21 11	0 35	17 52	0 20	25 49	2 7	26 15	2 46	8 54	1 17	21 9	1 22	20 9	0 4	9 18	1 29	7 9	15 25	19 9	18 54	6 30		n.a.
M19	18 52	16 32	0s39	18 38	0 30	25 49	2 7	26 20	2 51	8 51	1 17	21 8	1 22	20 8	0 4	9 18	1 29	7 8	15 25	19 9	18 55	6 27		n.a.
T 20	19 6	10 57	1 52	19 22	0 40	25 48	2 8	26 24	2 56	8 48	1 17	21 7	1 22	20 8	0 4	9 18	1 29	7 8	15 25	19 9	18 56	6 24		n.a.
W21	19 20	4 46	2 58	20 4	0 50	25 46	2 8	26 28	3 0	8 45	1 18	21 6	1 22	20 7	0 4	9 17	1 29	7 8	15 26	19 9	18 57	6 21		n.a.
T 22	19 34	1s41	3 53	20 44	0 59	25 44	2 8	26 32	3 5	8 43	1 18	21 5	1 21	20 7	0 4	9 17	1 29	7 7	15 26	19 10	18 58	6 17		n.a.
F 23	19 47	8 3	4 34	21 22	1 7	25 41	2 8	26 37	3 9	8 40	1 18	21 4	1 21	20 6	0 4	9 17	1 29	7 7	15 26	19 11	18 58	6 14		n.a.
S 24	20 0	13 59	4 57	21 57	1 15	25 37	2 8	26 41	3 14	8 37	1 18	21 3	1 21	20 5	0 4	9 17	1 29	7 7	15 26	19 13	18 59	6 11		n.a.
S 25	20 13	19 9	5 2	22 30	1 23	25 33	2 8	26 45	3 19	8 34	1 19	21 2	1 21	20 5	0 4	9 16	1 29	7 7	15 26	19 15	19 0	6 8		n.a.
M26	20 25	23 10	4 49	23 0	1 29	25 27	2 8	26 49	3 23	8 32	1 19	21 0	1 21	20 4	0 4	9 16	1 29	7 6	15 26	19 17	19 1	6 5		n.a.
T 27	20 37	25 48	4 19	23 28	1 35	25 22	2 8	26 53	3 28	8 29	1 19	20 59	1 21	20 4	0 4	9 16	1 29	7 6	15 27	19 20	19 2	6 1		n.a.
W28	20 49	26 52	3 35	23 53	1 41	25 15	2 8	26 57	3 32	8 26	1 20	20 58	1 21	20 3	0 4	9 16	1 29	7 6	15 27	19 22	19 2	5 58		n.a.
T 29	21 0	26 22	2 41	24 15	1 45	25 8	2 7	27 0	3 37	8 24	1 20	20 57	1 21	20 3	0 4	9 15	1 29	7 6	15 27	19 23	19 3	5 55		n.a.
F 30	21 11	24 29	1 40	24 35	1 49	25 0	2 7	27 4	3 42	8 21	1 20	20 56	1 21	20 2	0 4	9 15	1 29	7 6	15 27	19 24	19 4	5 52		n.a.
S 31	21n22	21s26	0s35	24n51	1n52	24n51	2n 6	27s 8	3s46	8s19	1s20	20n54	1n21	20s 2	0n 4	9s15	1s29	7s 5	15s27	19s25	19s 5	5s49		n.a.

Julian Day Number = 1679904.5, Delta T = 03h16m02s
Ecliptic obliquity = 23°42'38, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'06, Lahiri = - 5°31'06 Julian Calendar 1 May 114 BCE == Greg. Calendar 28 Apr. 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

JUNE 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 23 28	5♊53'51	9♒49	18♊16	16♋51	20°R22	12♓16	3♌34	28°R38	10♓ 5	18♈ 9	4°D15	5♒34	8♓46	n.a.	S 1
M 2	16 27 24	6°50'57	21°47	20°13	17°59	20♐ 9	12°22	3°39	28♏36	10° 6	18° 9	4♒16	5°31	8°53	n.a.	M 2
T 3	16 31 21	7°48'03	3♓39	22° 8	19° 7	19°55	12°29	3°45	28°33	10° 6	18°10	4°R17	5°28	9° 0	n.a.	T 3
W 4	16 35 17	8°45'10	15°29	24° 1	20°15	19°41	12°35	3°50	28°31	10° 7	18°11	4°17	5°25	9° 6	n.a.	W 4
T 5	16 39 14	9°42'17	27°23	25°51	21°22	19°26	12°41	3°55	28°28	10° 7	18°12	4°15	5°22	9°13	n.a.	T 5
F 6	16 43 11	10°39'24	9♈25	27°40	22°30	19°11	12°47	4° 1	28°26	10° 7	18°13	4°11	5°18	9°20	n.a.	F 6
S 7	16 47 7	11°36'32	21°40	29°27	23°37	18°55	12°53	4° 6	28°24	10° 8	18°14	4° 5	5°15	9°26	n.a.	S 7
S 8	16 51 4	12°33'40	4♉12	1♋12	24°44	18°39	12°58	4°12	28°21	10° 8	18°15	3°58	5°12	9°33	n.a.	S 8
M 9	16 55 0	13°30'48	17° 1	2°55	25°51	18°23	13° 4	4°17	28°19	10° 8	18°16	3°49	5° 9	9°40	n.a.	M 9
T 10	16 58 57	14°27'57	0♊10	4°36	26°58	18° 7	13° 9	4°23	28°17	10° 9	18°17	3°41	5° 6	9°46	n.a.	T 10
W11	17 2 53	15°25'06	13°36	6°15	28° 5	17°50	13°14	4°29	28°14	10° 9	18°17	3°33	5° 3	9°53	n.a.	W11
T 12	17 6 50	16°22'16	27°18	7°51	29°12	17°33	13°19	4°35	28°12	10° 9	18°18	3°27	4°59	10° 0	n.a.	T 12
F 13	17 10 47	17°19'26	11♋13	9°26	0♌18	17°16	13°24	4°40	28°10	10° 9	18°19	3°23	4°56	10° 6	n.a.	F 13
S 14	17 14 43	18°16'36	25°17	10°59	1°24	16°59	13°29	4°46	28° 8	10° 9	18°20	3°21	4°53	10°13	n.a.	S 14
S 15	17 18 40	19°13'46	9♌27	12°29	2°30	16°42	13°33	4°52	28° 5	10° 9	18°21	3°D21	4°50	10°20	n.a.	S 15
M16	17 22 36	20°10'57	23°39	13°58	3°36	16°25	13°37	4°58	28° 3	10° 9	18°21	3°22	4°47	10°26	n.a.	M16
T 17	17 26 33	21° 8'07	7♍52	15°24	4°42	16° 9	13°41	5° 4	28° 1	10°R 9	18°22	3°23	4°43	10°33	n.a.	T 17
W18	17 30 29	22° 5'18	22° 4	16°48	5°48	15°52	13°45	5°11	27°59	10° 9	18°23	3°R24	4°40	10°40	n.a.	W18
T 19	17 34 26	23° 2'29	6♎12	18°11	6°53	15°35	13°49	5°17	27°57	10° 9	18°23	3°23	4°37	10°46	n.a.	T 19
F 20	17 38 22	23°59'40	20°15	19°31	7°58	15°19	13°52	5°23	27°54	10° 9	18°24	3°21	4°34	10°53	n.a.	F 20
S 21	17 42 19	24°56'52	4♏11	20°48	9° 3	15° 3	13°56	5°29	27°52	10° 9	18°25	3°17	4°31	11° 0	n.a.	S 21
S 22	17 46 16	25°54'04	17°58	22° 4	10° 8	14°47	13°59	5°36	27°50	10° 9	18°25	3°11	4°28	11° 6	n.a.	S 22
M23	17 50 12	26°51'16	1♐33	23°17	11°13	14°32	14° 2	5°42	27°48	10° 9	18°26	3° 6	4°24	11°13	n.a.	M23
T 24	17 54 9	27°48'30	14°54	24°27	12°17	14°17	14° 5	5°49	27°46	10° 8	18°27	3° 0	4°21	11°20	n.a.	T 24
W25	17 58 5	28°45'44	28° 0	25°35	13°21	14° 2	14° 7	5°55	27°44	10° 8	18°27	2°55	4°18	11°26	n.a.	W25
T 26	18 2 2	29°42'58	10♑49	26°41	14°25	13°48	14°10	6° 2	27°42	10° 8	18°28	2°52	4°15	11°33	n.a.	T 26
F 27	18 5 58	0♋40'14	23°23	27°44	15°29	13°35	14°12	6° 8	27°40	10° 8	18°28	2°50	4°12	11°40	n.a.	F 27
S 28	18 9 55	1°37'30	5♒41	28°44	16°33	13°22	14°14	6°15	27°38	10° 7	18°29	2°D50	4° 9	11°46	n.a.	S 28
S 29	18 13 51	2°34'47	17°47	29°41	17°36	13° 9	14°16	6°21	27°37	10° 7	18°29	2°51	4° 5	11°53	n.a.	S 29
M30	18 17 48	3♋32'06	29♒44	0♌35	18♌39	12♐57	14♓17	6♌28	27♏35	10♓ 6	18♈30	2♒52	4♒ 2	12♓ 0	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n32	17s31	0n30	25n 5	1n55	24n42	2n 5	27s11	3s51	8s17	1s21	20n53	1n21	20s 1	0n 4	9s15	1s29	7s 5	15s28	19s25	19s 5	5s45		n.a.
M 2	21 42	12 56	1 33	25 17	1 57	24 32	2 4	27 15	3 55	8 14	1 21	20 52	1 21	20 1	0 4	9 15	1 30	7 5	15 28	19 25	19 6	5 42		n.a.
T 3	21 51	7 56	2 31	25 26	1 58	24 22	2 3	27 18	3 59	8 12	1 21	20 51	1 21	20 0	0 4	9 15	1 30	7 5	15 28	19 24	19 7	5 39		n.a.
W 4	22 1	2 41	3 23	25 32	1 58	24 11	2 2	27 21	4 4	8 10	1 22	20 49	1 21	20 0	0 4	9 15	1 30	7 5	15 28	19 24	19 8	5 36		n.a.
T 5	22 9	2n42	4 6	25 37	1 58	23 59	2 1	27 24	4 8	8 8	1 22	20 48	1 21	19 59	0 4	9 15	1 30	7 5	15 29	19 25	19 9	5 33		n.a.
F 6	22 18	8 2	4 39	25 38	1 57	23 46	2 0	27 27	4 12	8 6	1 22	20 47	1 21	19 59	0 4	9 14	1 30	7 5	15 29	19 26	19 9	5 30		n.a.
S 7	22 26	13 9	5 0	25 38	1 56	23 33	1 58	27 30	4 16	8 4	1 22	20 45	1 21	19 58	0 4	9 14	1 30	7 4	15 29	19 27	19 10	5 26		n.a.
S 8	22 34	17 52	5 7	25 36	1 53	23 20	1 57	27 32	4 20	8 2	1 23	20 44	1 21	19 58	0 4	9 14	1 30	7 4	15 29	19 29	19 11	5 23		n.a.
M 9	22 41	21 52	4 59	25 31	1 51	23 6	1 55	27 35	4 24	8 0	1 23	20 43	1 21	19 57	0 4	9 14	1 30	7 4	15 29	19 31	19 12	5 20		n.a.
T 10	22 48	24 53	4 35	25 25	1 47	22 51	1 53	27 37	4 28	7 58	1 23	20 41	1 21	19 56	0 4	9 14	1 30	7 4	15 30	19 33	19 13	5 17		n.a.
W11	22 54	26 35	3 56	25 17	1 43	22 36	1 51	27 39	4 31	7 57	1 24	20 40	1 21	19 56	0 4	9 14	1 30	7 4	15 30	19 35	19 13	5 14		n.a.
T 12	23 0	26 43	3 2	25 7	1 39	22 20	1 49	27 41	4 35	7 55	1 24	20 38	1 21	19 55	0 4	9 14	1 30	7 4	15 30	19 36	19 14	5 10		n.a.
F 13	23 6	25 10	1 57	24 56	1 34	22 3	1 47	27 43	4 39	7 53	1 24	20 37	1 21	19 55	0 4	9 14	1 30	7 4	15 30	19 37	19 15	5 7		n.a.
S 14	23 11	22 2	0 44	24 43	1 29	21 47	1 45	27 44	4 42	7 52	1 25	20 35	1 21	19 54	0 4	9 14	1 30	7 4	15 31	19 38	19 16	5 4		n.a.
S 15	23 16	17 34	0s33	24 29	1 22	21 29	1 43	27 46	4 45	7 51	1 25	20 34	1 21	19 54	0 4	9 14	1 30	7 4	15 31	19 38	19 16	5 1		n.a.
M16	23 21	12 6	1 48	24 14	1 16	21 11	1 40	27 47	4 48	7 49	1 25	20 32	1 21	19 53	0 4	9 14	1 30	7 4	15 31	19 37	19 17	4 58		n.a.
T 17	23 25	6 0	2 56	23 57	1 9	20 53	1 37	27 48	4 51	7 48	1 26	20 31	1 21	19 53	0 4	9 14	1 30	7 4	15 31	19 37	19 18	4 54		n.a.
W18	23 28	0s23	3 53	23 39	1 2	20 34	1 35	27 49	4 54	7 47	1 26	20 29	1 21	19 53	0 4	9 14	1 30	7 4	15 32	19 37	19 19	4 51		n.a.
T 19	23 31	6 42	4 36	23 21	0 54	20 14	1 32	27 50	4 57	7 46	1 26	20 28	1 21	19 52	0 4	9 14	1 31	7 4	15 32	19 37	19 19	4 48		n.a.
F 20	23 34	12 39	5 2	23 1	0 45	19 55	1 29	27 51	4 59	7 44	1 27	20 26	1 20	19 52	0 4	9 15	1 31	7 4	15 32	19 38	19 20	4 45		n.a.
S 21	23 37	17 55	5 10	22 41	0 37	19 34	1 26	27 51	5 2	7 43	1 27	20 25	1 20	19 51	0 4	9 15	1 31	7 4	15 33	19 39	19 21	4 42		n.a.
S 22	23 39	22 10	5 0	22 20	0 28	19 14	1 23	27 52	5 4	7 42	1 27	20 23	1 20	19 51	0 4	9 15	1 31	7 4	15 33	19 40	19 22	4 38		n.a.
M23	23 40	25 10	4 33	21 59	0 18	18 52	1 19	27 52	5 6	7 42	1 27	20 21	1 20	19 50	0 4	9 15	1 31	7 4	15 33	19 41	19 23	4 35		n.a.
T 24	23 41	26 41	3 52	21 37	0 8	18 31	1 16	27 52	5 8	7 41	1 28	20 20	1 20	19 50	0 4	9 15	1 31	7 4	15 33	19 42	19 23	4 32		n.a.
W25	23 42	26 40	2 59	21 14	0s 2	18 9	1 12	27 52	5 10	7 40	1 28	20 18	1 20	19 49	0 3	9 15	1 31	7 4	15 34	19 44	19 24	4 29		n.a.
T 26	23 43	25 13	1 57	20 51	0 12	17 47	1 8	27 52	5 12	7 39	1 28	20 17	1 20	19 49	0 3	9 15	1 31	7 4	15 34	19 44	19 25	4 26		n.a.
F 27	23 43	22 30	0 52	20 28	0 23	17 24	1 5	27 52	5 13	7 39	1 29	20 15	1 20	19 48	0 3	9 15	1 31	7 4	15 34	19 45	19 26	4 22		n.a.
S 28	23 42	18 49	0n16	20 5	0 34	17 1	1 1	27 52	5 14	7 38	1 29	20 13	1 20	19 48	0 3	9 16	1 31	7 4	15 34	19 45	19 26	4 19		n.a.
S 29	23 41	14 23	1 21	19 42	0 46	16 38	0 57	27 51	5 16	7 38	1 29	20 12	1 20	19 48	0 3	9 16	1 31	7 4	15 35	19 45	19 27	4 16		n.a.
M30	23n40	9s29	2n22	19n19	0s57	16n14	0n52	27s51	5s17	7s38	1s30	20n10	1n20	19s47	0n 3	9s16	1s31	7s 4	15s35	19s44	19s28	4s13		n.a.

Julian Day Number = 1679935.5, Delta T = 03h16m01s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°38'02, Lahiri = - 5°31'02 Julian Calendar 1 June 114 BCE == Greg. Calendar 29 May 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

JULY 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 21 45	4♋29'25	11♓35	1♌26	19♌42	12°R46	14♓19	6♌35	27°R33	10°R 6	18♈30	2♒54	3♒59	12♓ 7	n.a.	T 1
W 2	18 25 41	5°26'45	23°25	2°14	20°44	12♐35	14°20	6°42	27♏31	10♓ 6	18°31	2°55	3°56	12°13	n.a.	W 2
T 3	18 29 38	6°24'07	5♈20	2°58	21°46	12°25	14°21	6°48	27°30	10° 5	18°31	2°R56	3°53	12°20	n.a.	T 3
F 4	18 33 34	7°21'30	17°23	3°39	22°48	12°16	14°22	6°55	27°28	10° 5	18°31	2°56	3°49	12°27	n.a.	F 4
S 5	18 37 31	8°18'55	29°39	4°15	23°50	12° 7	14°23	7° 2	27°26	10° 4	18°32	2°54	3°46	12°33	n.a.	S 5
S 6	18 41 27	9°16'21	12♉13	4°48	24°51	11°59	14°23	7° 9	27°25	10° 3	18°32	2°52	3°43	12°40	n.a.	S 6
M 7	18 45 24	10°13'48	25° 7	5°17	25°52	11°52	14°24	7°16	27°23	10° 3	18°33	2°48	3°40	12°47	n.a.	M 7
T 8	18 49 20	11°11'16	8♊24	5°42	26°53	11°46	14°R24	7°23	27°21	10° 2	18°33	2°45	3°37	12°53	n.a.	T 8
W 9	18 53 17	12° 8'46	22° 3	6° 1	27°54	11°40	14°24	7°30	27°20	10° 1	18°33	2°42	3°34	13° 0	n.a.	W 9
T 10	18 57 14	13° 6'18	6♋ 3	6°17	28°54	11°35	14°23	7°37	27°18	10° 1	18°33	2°40	3°30	13° 7	n.a.	T 10
F 11	19 1 10	14° 3'50	20°20	6°27	29°54	11°31	14°23	7°44	27°17	10° 0	18°34	2°39	3°27	13°13	n.a.	F 11
S 12	19 5 7	15° 1'24	4♌49	6°R32	0♍53	11°28	14°22	7°51	27°16	9°59	18°34	2°D39	3°24	13°20	n.a.	S 12
S 13	19 9 3	15°58'58	19°25	6°32	1°52	11°26	14°21	7°59	27°14	9°58	18°34	2°39	3°21	13°27	n.a.	S 13
M14	19 13 0	16°56'34	4♍ 1	6°26	2°51	11°24	14°20	8° 6	27°13	9°58	18°34	2°40	3°18	13°33	n.a.	M14
T 15	19 16 56	17°54'11	18°33	6°15	3°49	11°D24	14°19	8°13	27°12	9°57	18°35	2°41	3°15	13°40	n.a.	T 15
W16	19 20 53	18°51'49	2♎55	5°58	4°47	11°24	14°17	8°20	27°11	9°56	18°35	2°42	3°11	13°47	n.a.	W16
T 17	19 24 50	19°49'28	17° 6	5°36	5°45	11°25	14°16	8°27	27° 9	9°55	18°35	2°R42	3° 8	13°53	n.a.	T 17
F 18	19 28 46	20°47'08	1♏ 2	5° 8	6°42	11°27	14°14	8°35	27° 8	9°54	18°35	2°42	3° 5	14° 0	n.a.	F 18
S 19	19 32 43	21°44'49	14°44	4°35	7°39	11°30	14°12	8°42	27° 7	9°53	18°35	2°42	3° 2	14° 7	n.a.	S 19
S 20	19 36 39	22°42'32	28°11	3°58	8°35	11°33	14° 9	8°49	27° 6	9°52	18°35	2°41	2°59	14°13	n.a.	S 20
M21	19 40 36	23°40'16	11♐23	3°16	9°31	11°37	14° 7	8°57	27° 5	9°51	18°35	2°39	2°55	14°20	n.a.	M21
T 22	19 44 32	24°38'01	24°21	2°29	10°26	11°43	14° 4	9° 4	27° 4	9°50	18°35	2°38	2°52	14°27	n.a.	T 22
W23	19 48 29	25°35'48	7♑ 4	1°40	11°20	11°49	14° 1	9°11	27° 3	9°49	18°R35	2°37	2°49	14°33	n.a.	W23
T 24	19 52 25	26°33'36	19°35	0°48	12°15	11°55	13°58	9°19	27° 2	9°48	18°35	2°37	2°46	14°40	n.a.	T 24
F 25	19 56 22	27°31'25	1♒54	29♋55	13° 8	12° 3	13°55	9°26	27° 2	9°47	18°35	2°D37	2°43	14°47	n.a.	F 25
S 26	20 0 19	28°29'16	14° 3	29° 1	14° 1	12°11	13°52	9°34	27° 1	9°46	18°35	2°37	2°40	14°53	n.a.	S 26
S 27	20 4 15	29°27'09	26° 3	28° 8	14°54	12°20	13°48	9°41	27° 0	9°44	18°35	2°37	2°36	15° 0	n.a.	S 27
M28	20 8 12	0♌25'03	7♓56	27°17	15°46	12°30	13°44	9°49	26°59	9°43	18°35	2°37	2°33	15° 7	n.a.	M28
T 29	20 12 8	1°23'00	19°46	26°28	16°37	12°41	13°40	9°56	26°59	9°42	18°35	2°38	2°30	15°14	n.a.	T 29
W30	20 16 5	2°20'58	1♈36	25°43	17°27	12°52	13°36	10° 3	26°58	9°41	18°35	2°R38	2°27	15°20	n.a.	W30
T 31	20 20 1	3♌18'58	13♈30	25♋ 4	18♍17	13♐ 4	13♓32	10♌11	26♏58	9♓40	18♈34	2♒38	2♒24	15♓27	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23n38	4s16	3n17	18n56	1s 9	15n50	0n48	27s50	5s18	7s37	1s30	20n 8	1n20	19s47	0n 3	9s16	1s31	7s 4	15s35	19s44	19s29	4s10			n.a.
W 2	23 36	1n 4	4 3	18 34	1 21	15 26	0 44	27 49	5 19	7 37	1 30	20 6	1 20	19 46	0 3	9 16	1 31	7 4	15 36	19 44	19 29	4 6			n.a.
T 3	23 33	6 24	4 39	18 12	1 34	15 1	0 39	27 49	5 19	7 37	1 31	20 5	1 20	19 46	0 3	9 17	1 31	7 5	15 36	19 43	19 30	4 3			n.a.
F 4	23 30	11 33	5 3	17 50	1 46	14 37	0 34	27 48	5 20	7 37	1 31	20 3	1 20	19 46	0 3	9 17	1 31	7 5	15 36	19 44	19 31	4 0			n.a.
S 5	23 27	16 21	5 14	17 29	1 59	14 11	0 29	27 47	5 20	7 37	1 31	20 1	1 20	19 45	0 3	9 17	1 31	7 5	15 36	19 44	19 32	3 57			n.a.
S 6	23 23	20 35	5 10	17 9	2 11	13 46	0 25	27 46	5 20	7 37	1 32	19 59	1 20	19 45	0 3	9 18	1 31	7 5	15 37	19 44	19 32	3 54			n.a.
M 7	23 19	23 58	4 51	16 50	2 24	13 21	0 19	27 45	5 21	7 37	1 32	19 58	1 20	19 45	0 3	9 18	1 32	7 5	15 37	19 45	19 33	3 50			n.a.
T 8	23 14	26 10	4 16	16 32	2 36	12 55	0 14	27 45	5 21	7 38	1 32	19 56	1 20	19 44	0 3	9 18	1 32	7 5	15 37	19 46	19 34	3 47			n.a.
W 9	23 9	26 53	3 26	16 15	2 49	12 29	0 9	27 44	5 21	7 38	1 33	19 54	1 21	19 44	0 3	9 18	1 32	7 5	15 38	19 47	19 35	3 44			n.a.
T 10	23 3	25 56	2 22	15 59	3 1	12 3	0 3	27 43	5 20	7 38	1 33	19 52	1 21	19 44	0 3	9 19	1 32	7 6	15 38	19 47	19 35	3 41			n.a.
F 11	22 57	23 16	1 7	15 45	3 13	11 36	0s 2	27 42	5 20	7 39	1 33	19 50	1 21	19 43	0 3	9 19	1 32	7 6	15 38	19 47	19 36	3 38			n.a.
S 12	22 51	19 5	0s12	15 33	3 25	11 10	0 8	27 41	5 20	7 39	1 34	19 48	1 21	19 43	0 3	9 19	1 32	7 6	15 39	19 47	19 37	3 34			n.a.
S 13	22 44	13 43	1 31	15 22	3 36	10 43	0 14	27 40	5 19	7 40	1 34	19 47	1 21	19 43	0 3	9 20	1 32	7 6	15 39	19 47	19 38	3 31			n.a.
M14	22 37	7 35	2 45	15 13	3 47	10 16	0 20	27 39	5 18	7 41	1 34	19 45	1 21	19 42	0 3	9 20	1 32	7 6	15 39	19 47	19 38	3 28			n.a.
T 15	22 30	1 6	3 47	15 6	3 57	9 49	0 26	27 39	5 18	7 42	1 35	19 43	1 21	19 42	0 3	9 21	1 32	7 7	15 39	19 47	19 39	3 25			n.a.
W16	22 22	5s22	4 35	15 1	4 6	9 22	0 32	27 38	5 17	7 42	1 35	19 41	1 21	19 42	0 3	9 21	1 32	7 7	15 40	19 47	19 40	3 22			n.a.
T 17	22 14	11 28	5 5	14 58	4 15	8 55	0 38	27 37	5 16	7 43	1 35	19 39	1 21	19 42	0 3	9 21	1 32	7 7	15 40	19 47	19 41	3 18			n.a.
F 18	22 5	16 54	5 16	14 58	4 22	8 28	0 45	27 36	5 15	7 44	1 36	19 37	1 21	19 41	0 3	9 22	1 32	7 7	15 40	19 47	19 41	3 15			n.a.
S 19	21 56	21 22	5 10	15 0	4 28	8 1	0 51	27 36	5 14	7 46	1 36	19 35	1 21	19 41	0 3	9 22	1 32	7 7	15 41	19 47	19 42	3 12			n.a.
S 20	21 46	24 37	4 46	15 4	4 33	7 33	0 58	27 35	5 13	7 47	1 36	19 33	1 21	19 41	0 3	9 23	1 32	7 8	15 41	19 47	19 43	3 9			n.a.
M21	21 37	26 29	4 7	15 11	4 36	7 6	1 5	27 35	5 12	7 48	1 36	19 31	1 21	19 41	0 3	9 23	1 32	7 8	15 41	19 47	19 44	3 6			n.a.
T 22	21 26	26 52	3 17	15 20	4 37	6 38	1 11	27 34	5 10	7 49	1 37	19 29	1 21	19 40	0 3	9 23	1 32	7 8	15 42	19 48	19 44	3 2			n.a.
W23	21 16	25 48	2 17	15 31	4 37	6 11	1 18	27 34	5 9	7 51	1 37	19 27	1 21	19 40	0 3	9 24	1 32	7 9	15 42	19 48	19 45	2 59			n.a.
T 24	21 5	23 27	1 12	15 44	4 34	5 44	1 26	27 33	5 8	7 52	1 37	19 26	1 21	19 40	0 3	9 24	1 32	7 9	15 42	19 48	19 46	2 56			n.a.
F 25	20 53	20 1	0 4	16 0	4 30	5 16	1 33	27 33	5 6	7 54	1 38	19 24	1 21	19 40	0 3	9 25	1 32	7 9	15 42	19 48	19 47	2 53			n.a.
S 26	20 42	15 48	1n 3	16 17	4 24	4 49	1 40	27 32	5 5	7 55	1 38	19 22	1 21	19 40	0 3	9 25	1 32	7 9	15 43	19 48	19 47	2 50			n.a.
S 27	20 30	11 0	2 6	16 35	4 16	4 22	1 48	27 32	5 3	7 57	1 38	19 20	1 21	19 40	0 3	9 26	1 32	7 10	15 43	19 48	19 48	2 46			n.a.
M28	20 17	5 51	3 4	16 55	4 6	3 55	1 55	27 32	5 2	7 59	1 38	19 18	1 21	19 39	0 3	9 26	1 33	7 10	15 43	19 48	19 49	2 43			n.a.
T 29	20 5	0 32	3 53	17 15	3 55	3 27	2 3	27 32	5 0	8 0	1 39	19 16	1 21	19 39	0 3	9 27	1 33	7 10	15 44	19 48	19 49	2 40			n.a.
W30	19 52	4n48	4 32	17 36	3 42	3 0	2 11	27 31	4 58	8 2	1 39	19 14	1 21	19 39	0 3	9 27	1 33	7 11	15 44	19 48	19 50	2 37			n.a.
T 31	19n38	9n59	5n 0	17n58	3s27	2n34	2s19	27s31	4s56	8s 4	1s39	19n12	1n21	19s39	0n 3	9s28	1s33	7s11	15s44	19s48	19s51	2s34			n.a.

Julian Day Number = 1679965.5, Delta T = 03h16m00s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'58, Lahiri = - 5°30'58 Julian Calendar 1 July 114 BCE == Greg. Calendar 28 June 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

AUGUST 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 23 58	4♌17'00	25♈32	24°R30	19♍ 6	13♐16	13°R27	10♌18	26°R57	9°R38	18°R34	2°R38	2♒20	15♓34	n.a.	F 1
S 2	20 27 54	5°15'04	7♉46	24♋ 2	19°55	13°30	13♓23	10°26	26♏57	9♓37	18♈34	2°D38	2°17	15°40	n.a.	S 2
S 3	20 31 51	6°13'10	20°17	23°42	20°43	13°44	13°18	10°33	26°56	9°36	18°34	2♒38	2°14	15°47	n.a.	S 3
M 4	20 35 48	7°11'19	3♊ 9	23°30	21°29	13°59	13°13	10°41	26°56	9°34	18°34	2°38	2°11	15°54	n.a.	M 4
T 5	20 39 44	8° 9'29	16°25	23°D27	22°16	14°14	13° 8	10°48	26°56	9°33	18°33	2°38	2° 8	16° 0	n.a.	T 5
W 6	20 43 41	9° 7'42	0♋ 6	23°31	23° 1	14°30	13° 2	10°56	26°56	9°32	18°33	2°39	2° 5	16° 7	n.a.	W 6
T 7	20 47 37	10° 5'56	14°13	23°45	23°45	14°47	12°57	11° 4	26°56	9°30	18°33	2°40	2° 1	16°14	n.a.	T 7
F 8	20 51 34	11° 4'13	28°43	24° 7	24°29	15° 4	12°51	11°11	26°55	9°29	18°32	2°R40	1°58	16°20	n.a.	F 8
S 9	20 55 30	12° 2'31	13♌31	24°37	25°11	15°22	12°45	11°19	26°55	9°27	18°32	2°40	1°55	16°27	n.a.	S 9
S 10	20 59 27	13° 0'52	28°29	25°16	25°53	15°41	12°39	11°26	26°D55	9°26	18°32	2°39	1°52	16°34	n.a.	S 10
M11	21 3 23	13°59'14	13♍30	26° 4	26°33	16° 0	12°33	11°34	26°55	9°24	18°31	2°38	1°49	16°40	n.a.	M11
T 12	21 7 20	14°57'38	28°25	26°59	27°13	16°20	12°27	11°41	26°55	9°23	18°31	2°37	1°46	16°47	n.a.	T 12
W13	21 11 17	15°56'03	13♎ 6	28° 1	27°51	16°40	12°21	11°49	26°56	9°22	18°31	2°35	1°42	16°54	n.a.	W13
T 14	21 15 13	16°54'30	27°28	29°10	28°28	17° 1	12°14	11°56	26°56	9°20	18°30	2°34	1°39	17° 0	n.a.	T 14
F 15	21 19 10	17°52'59	11♏29	0♌26	29° 4	17°23	12° 7	12° 4	26°56	9°19	18°30	2°D33	1°36	17° 7	n.a.	F 15
S 16	21 23 6	18°51'30	25° 7	1°47	29°39	17°45	12° 1	12°11	26°56	9°17	18°29	2°33	1°33	17°14	n.a.	S 16
S 17	21 27 3	19°50'03	8♐23	3°13	0♎12	18° 7	11°54	12°19	26°57	9°15	18°29	2°34	1°30	17°21	n.a.	S 17
M18	21 30 59	20°48'37	21°20	4°44	0°44	18°30	11°47	12°26	26°57	9°14	18°28	2°35	1°26	17°27	n.a.	M18
T 19	21 34 56	21°47'13	4♑ 0	6°19	1°15	18°54	11°40	12°34	26°58	9°12	18°28	2°37	1°23	17°34	n.a.	T 19
W20	21 38 52	22°45'51	16°26	7°58	1°44	19°18	11°33	12°41	26°58	9°11	18°27	2°38	1°20	17°41	n.a.	W20
T 21	21 42 49	23°44'31	28°41	9°39	2°12	19°43	11°25	12°48	26°59	9° 9	18°26	2°R39	1°17	17°47	n.a.	T 21
F 22	21 46 45	24°43'12	10♒46	11°23	2°38	20° 8	11°18	12°56	26°59	9° 8	18°26	2°39	1°14	17°54	n.a.	F 22
S 23	21 50 42	25°41'56	22°45	13° 9	3° 2	20°33	11°10	13° 3	27° 0	9° 6	18°25	2°37	1°11	18° 1	n.a.	S 23
S 24	21 54 39	26°40'41	4♓39	14°56	3°24	20°59	11° 3	13°11	27° 1	9° 4	18°25	2°35	1° 7	18° 7	n.a.	S 24
M25	21 58 35	27°39'29	16°30	16°45	3°45	21°25	10°55	13°18	27° 1	9° 3	18°24	2°31	1° 4	18°14	n.a.	M25
T 26	22 2 32	28°38'19	28°20	18°34	4° 4	21°52	10°48	13°25	27° 2	9° 1	18°23	2°27	1° 1	18°21	n.a.	T 26
W27	22 6 28	29°37'11	10♈12	20°24	4°21	22°19	10°40	13°33	27° 3	8°59	18°23	2°22	0°58	18°27	n.a.	W27
T 28	22 10 25	0♍36'05	22° 7	22°14	4°37	22°46	10°32	13°40	27° 4	8°58	18°22	2°17	0°55	18°34	n.a.	T 28
F 29	22 14 21	1°35'02	4♉ 9	24° 4	4°50	23°14	10°24	13°47	27° 5	8°56	18°21	2°14	0°52	18°41	n.a.	F 29
S 30	22 18 18	2°34'01	16°22	25°54	5° 1	23°43	10°16	13°55	27° 6	8°54	18°20	2°11	0°48	18°47	n.a.	S 30
S 31	22 22 14	3♍33'03	28♉49	27♌44	5♎10	24♐11	10♓ 8	14♌ 2	27♏ 7	8♓53	18♈20	2°D10	0♒45	18♓54	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n24	14n51	5n15	18n19	3s12	2n 7	2s27	27s31	4s55	8s 6	1s40	19n10	1n21	19s39	0n 3	9s28	1s33	7s11	15s45	19s48	19s52	2s30		n.a.
S 2	19 10	19 14	5 16	18 40	2 55	1 40	2 35	27 31	4 53	8 8	1 40	19 8	1 21	19 39	0 3	9 29	1 33	7 12	15 45	19 48	19 52	2 27		n.a.
S 3	18 56	22 52	5 2	19 1	2 38	1 14	2 43	27 31	4 51	8 10	1 40	19 6	1 21	19 39	0 3	9 29	1 33	7 12	15 45	19 48	19 53	2 24		n.a.
M 4	18 41	25 30	4 34	19 21	2 20	0 48	2 51	27 31	4 49	8 13	1 40	19 4	1 22	19 39	0 3	9 30	1 33	7 12	15 45	19 48	19 54	2 21		n.a.
T 5	18 26	26 49	3 49	19 39	2 1	0 22	3 0	27 31	4 47	8 15	1 41	19 2	1 22	19 39	0 3	9 30	1 33	7 13	15 46	19 48	19 55	2 18		n.a.
W 6	18 11	26 34	2 51	19 56	1 43	0s 4	3 8	27 31	4 45	8 17	1 41	19 0	1 22	19 39	0 3	9 31	1 33	7 13	15 46	19 47	19 55	2 14		n.a.
T 7	17 55	24 36	1 41	20 12	1 25	0 30	3 17	27 31	4 43	8 20	1 41	18 57	1 22	19 39	0 3	9 32	1 33	7 13	15 46	19 47	19 56	2 11		n.a.
F 8	17 39	21 0	0 22	20 26	1 7	0 55	3 25	27 31	4 41	8 22	1 41	18 55	1 22	19 39	0 3	9 32	1 33	7 14	15 47	19 47	19 57	2 8		n.a.
S 9	17 23	16 0	1s 0	20 38	0 50	1 20	3 34	27 31	4 39	8 24	1 42	18 53	1 22	19 39	0 3	9 33	1 33	7 14	15 47	19 47	19 57	2 5		n.a.
S 10	17 6	9 58	2 18	20 47	0 33	1 45	3 43	27 31	4 37	8 27	1 42	18 51	1 22	19 39	0 3	9 33	1 33	7 15	15 47	19 47	19 58	2 2		n.a.
M11	16 49	3 22	3 27	20 54	0 16	2 9	3 52	27 31	4 35	8 30	1 42	18 49	1 22	19 39	0 3	9 34	1 33	7 15	15 47	19 48	19 59	1 58		n.a.
T 12	16 32	3s22	4 22	20 59	0 1	2 33	4 1	27 31	4 33	8 32	1 42	18 47	1 22	19 39	0 3	9 34	1 33	7 15	15 48	19 48	20 0	1 55		n.a.
W13	16 14	9 48	4 58	21 1	0n14	2 57	4 10	27 32	4 31	8 35	1 42	18 45	1 22	19 39	0 3	9 35	1 33	7 16	15 48	19 48	20 0	1 52		n.a.
T 14	15 57	15 35	5 15	21 0	0 27	3 20	4 19	27 32	4 29	8 38	1 43	18 43	1 22	19 39	0 3	9 36	1 33	7 16	15 48	19 49	20 1	1 49		n.a.
F 15	15 39	20 23	5 12	20 56	0 40	3 43	4 28	27 32	4 27	8 40	1 43	18 41	1 22	19 39	0 3	9 36	1 33	7 17	15 48	19 49	20 2	1 46		n.a.
S 16	15 20	23 59	4 52	20 49	0 51	4 6	4 38	27 32	4 25	8 43	1 43	18 39	1 22	19 39	0 3	9 37	1 33	7 17	15 49	19 49	20 2	1 43		n.a.
S 17	15 2	26 10	4 17	20 40	1 2	4 27	4 47	27 32	4 22	8 46	1 43	18 37	1 22	19 39	0 3	9 37	1 33	7 18	15 49	19 49	20 3	1 39		n.a.
M18	14 43	26 54	3 29	20 27	1 11	4 49	4 56	27 32	4 20	8 49	1 43	18 35	1 23	19 39	0 3	9 38	1 33	7 18	15 49	19 48	20 4	1 36		n.a.
T 19	14 24	26 10	2 32	20 11	1 20	5 10	5 5	27 32	4 18	8 52	1 44	18 33	1 23	19 39	0 3	9 39	1 33	7 18	15 49	19 48	20 5	1 33		n.a.
W20	14 5	24 9	1 28	19 53	1 27	5 30	5 15	27 31	4 16	8 55	1 44	18 31	1 23	19 39	0 3	9 39	1 33	7 19	15 50	19 48	20 5	1 30		n.a.
T 21	13 45	21 1	0 22	19 32	1 33	5 50	5 24	27 31	4 14	8 57	1 44	18 29	1 23	19 39	0 3	9 40	1 33	7 19	15 50	19 47	20 6	1 27		n.a.
F 22	13 26	17 1	0n45	19 8	1 38	6 8	5 33	27 31	4 12	9 0	1 44	18 27	1 23	19 40	0 3	9 41	1 33	7 20	15 50	19 47	20 7	1 23		n.a.
S 23	13 6	12 23	1 48	18 42	1 43	6 27	5 43	27 31	4 9	9 3	1 44	18 25	1 23	19 40	0 3	9 41	1 33	7 20	15 50	19 48	20 7	1 20		n.a.
S 24	12 46	7 19	2 47	18 13	1 46	6 44	5 52	27 30	4 7	9 6	1 44	18 23	1 23	19 40	0 3	9 42	1 33	7 21	15 51	19 48	20 8	1 17		n.a.
M25	12 25	2 3	3 38	17 43	1 48	7 1	6 1	27 30	4 5	9 10	1 44	18 21	1 23	19 40	0 3	9 42	1 33	7 21	15 51	19 49	20 9	1 14		n.a.
T 26	12 5	3n17	4 19	17 10	1 50	7 17	6 10	27 30	4 3	9 13	1 44	18 19	1 23	19 40	0 3	9 43	1 33	7 22	15 51	19 50	20 9	1 11		n.a.
W27	11 44	8 31	4 50	16 36	1 51	7 32	6 19	27 29	4 1	9 16	1 45	18 17	1 23	19 41	0 3	9 44	1 33	7 22	15 51	19 51	20 10	1 8		n.a.
T 28	11 23	13 27	5 8	16 0	1 51	7 47	6 28	27 29	3 58	9 19	1 45	18 15	1 24	19 41	0 3	9 44	1 33	7 22	15 52	19 52	20 11	1 4		n.a.
F 29	11 2	17 56	5 13	15 23	1 51	8 0	6 37	27 28	3 56	9 22	1 45	18 13	1 24	19 41	0 3	9 45	1 33	7 23	15 52	19 53	20 12	1 1		n.a.
S 30	10 41	21 45	5 3	14 45	1 50	8 12	6 46	27 27	3 54	9 25	1 45	18 10	1 24	19 41	0 3	9 46	1 33	7 23	15 52	19 54	20 12	0 58		n.a.
S 31	10n19	24n40	4n40	14n 5	1n48	8s24	6s54	27s26	3s52	9s28	1s45	18n 8	1n24	19s42	0n 3	9s46	1s33	7s24	15s52	19s54	20s13	0s55		n.a.

Julian Day Number = 1679996.5, Delta T = 03h15m59s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'54, Lahiri = - 5°30'53 Julian Calendar 1 Aug. 114 BCE == Greg. Calendar 29 July 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

SEPTEMBER 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 26 11	4♍32'07	11♊35	29♌33	5♎17	24♐40	10°R 0	14♌ 9	27♏ 8	8°R51	18°R19	2♒10	0♒42	19♓ 1	n.a.	M 1
T 2	22 30 8	5°31'13	24°44	1♍22	5°21	25°10	9♓52	14°16	27° 9	8♓49	18♈18	2°11	0°39	19° 8	n.a.	T 2
W 3	22 34 4	6°30'22	8♋18	3°10	5°24	25°39	9°44	14°23	27°10	8°48	18°17	2°13	0°36	19°14	n.a.	W 3
T 4	22 38 1	7°29'34	22°19	4°58	5°R24	26° 9	9°36	14°31	27°12	8°46	18°17	2°14	0°32	19°21	n.a.	T 4
F 5	22 41 57	8°28'47	6♌48	6°44	5°21	26°40	9°28	14°38	27°13	8°44	18°16	2°R14	0°29	19°28	n.a.	F 5
S 6	22 45 54	9°28'03	21°39	8°31	5°17	27°11	9°20	14°45	27°14	8°43	18°15	2°13	0°26	19°34	n.a.	S 6
S 7	22 49 50	10°27'21	6♍48	10°16	5°10	27°42	9°12	14°52	27°16	8°41	18°14	2°10	0°23	19°41	n.a.	S 7
M 8	22 53 47	11°26'41	22° 4	12° 1	5° 0	28°13	9° 4	14°59	27°17	8°39	18°13	2° 5	0°20	19°48	n.a.	M 8
T 9	22 57 43	12°26'04	7♎17	13°45	4°49	28°45	8°56	15° 6	27°19	8°38	18°12	1°59	0°17	19°54	n.a.	T 9
W10	23 1 40	13°25'28	22°17	15°28	4°34	29°17	8°48	15°13	27°20	8°36	18°11	1°53	0°13	20° 1	n.a.	W10
T 11	23 5 36	14°24'54	6♏55	17°10	4°18	29°49	8°40	15°20	27°22	8°34	18°11	1°47	0°10	20° 8	n.a.	T 11
F 12	23 9 33	15°24'22	21° 7	18°52	3°59	0♑21	8°32	15°27	27°24	8°33	18°10	1°43	0° 7	20°14	n.a.	F 12
S 13	23 13 30	16°23'53	4♐50	20°33	3°38	0°54	8°24	15°33	27°25	8°31	18° 9	1°40	0° 4	20°21	n.a.	S 13
S 14	23 17 26	17°23'25	18° 6	22°13	3°15	1°27	8°16	15°40	27°27	8°29	18° 8	1°D40	0° 1	20°28	n.a.	S 14
M15	23 21 23	18°22'58	0♑58	23°53	2°49	2° 1	8° 8	15°47	27°29	8°28	18° 7	1°40	29♑58	20°35	n.a.	M15
T 16	23 25 19	19°22'34	13°30	25°31	2°22	2°34	8° 0	15°54	27°31	8°26	18° 6	1°42	29°54	20°41	n.a.	T 16
W17	23 29 16	20°22'11	25°45	27° 9	1°53	3° 8	7°53	16° 0	27°32	8°25	18° 5	1°R43	29°51	20°48	n.a.	W17
T 18	23 33 12	21°21'51	7♒50	28°47	1°22	3°42	7°45	16° 7	27°34	8°23	18° 4	1°43	29°48	20°55	n.a.	T 18
F 19	23 37 9	22°21'32	19°46	0♎24	0°50	4°17	7°37	16°14	27°36	8°21	18° 3	1°41	29°45	21° 1	n.a.	F 19
S 20	23 41 5	23°21'15	1♓38	2° 0	0°16	4°51	7°30	16°20	27°38	8°20	18° 2	1°36	29°42	21° 8	n.a.	S 20
S 21	23 45 2	24°21'00	13°28	3°35	29♍41	5°26	7°22	16°27	27°40	8°18	18° 1	1°30	29°38	21°15	n.a.	S 21
M22	23 48 59	25°20'47	25°19	5°10	29° 6	6° 1	7°15	16°33	27°43	8°17	18° 0	1°21	29°35	21°21	n.a.	M22
T 23	23 52 55	26°20'36	7♈11	6°44	28°30	6°36	7° 8	16°39	27°45	8°15	17°59	1°11	29°32	21°28	n.a.	T 23
W24	23 56 52	27°20'27	19° 7	8°18	27°53	7°11	7° 1	16°46	27°47	8°13	17°58	0°59	29°29	21°35	n.a.	W24
T 25	0 0 48	28°20'21	1♉ 8	9°51	27°17	7°47	6°54	16°52	27°49	8°12	17°57	0°48	29°26	21°41	n.a.	T 25
F 26	0 4 45	29°20'16	13°16	11°24	26°40	8°23	6°47	16°58	27°51	8°10	17°56	0°39	29°23	21°48	n.a.	F 26
S 27	0 8 41	0♎20'14	25°33	12°56	26° 4	8°59	6°40	17° 4	27°54	8° 9	17°55	0°31	29°19	21°55	n.a.	S 27
S 28	0 12 38	1°20'14	8♊ 2	14°27	25°29	9°35	6°34	17°11	27°56	8° 7	17°54	0°26	29°16	22° 2	n.a.	S 28
M29	0 16 34	2°20'17	20°45	15°58	24°54	10°11	6°27	17°17	27°58	8° 6	17°52	0°23	29°13	22° 8	n.a.	M29
T 30	0 20 31	3♎20'21	3♋47	17♎28	24♍20	10♑47	6♓21	17♌23	28♏ 1	8♓ 4	17♈51	0°D23	29♑10	22♓15	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n57	26n25	4n 2	13n24	1n46	8s34	7s 2	27s25	3s50	9s31	1s45	18n 6	1n24	19s42	0n 3	9s47	1s33	7s24	15s52	19s54	20s14	0s52		n.a.
T 2	9 36	26 47	3 10	12 43	1 43	8 43	7 11	27 24	3 47	9 34	1 45	18 4	1 24	19 42	0 3	9 48	1 34	7 25	15 53	19 54	20 14	0 48		n.a.
W 3	9 13	25 34	2 7	12 0	1 40	8 51	7 18	27 23	3 45	9 37	1 45	18 2	1 24	19 42	0 3	9 48	1 34	7 25	15 53	19 53	20 15	0 45		n.a.
T 4	8 51	22 43	0 54	11 17	1 36	8 58	7 26	27 22	3 43	9 41	1 45	18 0	1 24	19 43	0 3	9 49	1 34	7 26	15 53	19 53	20 16	0 42		n.a.
F 5	8 29	18 23	0s25	10 34	1 32	9 4	7 33	27 21	3 41	9 44	1 45	17 58	1 24	19 43	0 3	9 50	1 34	7 26	15 53	19 53	20 16	0 39		n.a.
S 6	8 6	12 49	1 44	9 50	1 28	9 8	7 40	27 19	3 39	9 47	1 45	17 56	1 25	19 43	0 3	9 50	1 34	7 27	15 53	19 53	20 17	0 36		n.a.
S 7	7 44	6 23	2 57	9 5	1 23	9 11	7 46	27 18	3 36	9 50	1 45	17 54	1 25	19 44	0 3	9 51	1 34	7 27	15 54	19 54	20 18	0 33		n.a.
M 8	7 21	0s27	3 58	8 20	1 18	9 13	7 52	27 16	3 34	9 53	1 45	17 52	1 25	19 44	0 3	9 51	1 34	7 28	15 54	19 55	20 19	0 29		n.a.
T 9	6 58	7 13	4 41	7 35	1 13	9 13	7 57	27 14	3 32	9 56	1 45	17 51	1 25	19 44	0 3	9 52	1 34	7 28	15 54	19 57	20 19	0 26		n.a.
W10	6 35	13 28	5 5	6 50	1 8	9 11	8 2	27 12	3 30	9 59	1 45	17 49	1 25	19 45	0 3	9 53	1 34	7 29	15 54	19 58	20 20	0 23		n.a.
T 11	6 12	18 49	5 8	6 4	1 2	9 9	8 6	27 10	3 28	10 2	1 45	17 47	1 25	19 45	0 3	9 53	1 34	7 29	15 54	19 59	20 21	0 20		n.a.
F 12	5 49	22 56	4 52	5 19	0 56	9 4	8 10	27 8	3 25	10 5	1 45	17 45	1 25	19 45	0 3	9 54	1 34	7 30	15 55	20 0	20 21	0 17		n.a.
S 13	5 26	25 35	4 19	4 33	0 50	8 59	8 13	27 6	3 23	10 8	1 45	17 43	1 26	19 46	0 3	9 55	1 34	7 30	15 55	20 1	20 22	0 14		n.a.
S 14	5 2	26 43	3 34	3 48	0 44	8 51	8 15	27 3	3 21	10 11	1 45	17 41	1 26	19 46	0 3	9 55	1 34	7 31	15 55	20 1	20 23	0 10		n.a.
M15	4 39	26 21	2 38	3 2	0 38	8 42	8 17	27 1	3 19	10 14	1 45	17 39	1 26	19 47	0 3	9 56	1 34	7 31	15 55	20 1	20 23	0 7		n.a.
T 16	4 15	24 37	1 37	2 17	0 32	8 32	8 17	26 58	3 17	10 17	1 45	17 37	1 26	19 47	0 3	9 57	1 34	7 32	15 55	20 0	20 24	0 4		n.a.
W17	3 51	21 46	0 32	1 32	0 25	8 20	8 17	26 55	3 15	10 20	1 45	17 35	1 26	19 48	0 3	9 57	1 34	7 32	15 55	20 0	20 25	0 1		n.a.
T 18	3 28	17 59	0n33	0 46	0 19	8 7	8 16	26 52	3 13	10 23	1 45	17 33	1 26	19 48	0 2	9 58	1 34	7 33	15 55	20 0	20 25	0n 2		n.a.
F 19	3 4	13 32	1 36	0 2	0 12	7 52	8 14	26 49	3 10	10 25	1 45	17 31	1 26	19 49	0 2	9 58	1 34	7 33	15 55	20 1	20 26	0 5		n.a.
S 20	2 40	8 37	2 34	0s43	0 5	7 36	8 11	26 45	3 8	10 28	1 45	17 30	1 27	19 49	0 2	9 59	1 34	7 34	15 56	20 2	20 27	0 9		n.a.
S 21	2 16	3 25	3 25	1 28	0s 1	7 19	8 8	26 42	3 6	10 31	1 45	17 28	1 27	19 49	0 2	10 0	1 34	7 34	15 56	20 3	20 27	0 12		n.a.
M22	1 52	1n53	4 7	2 12	0 8	7 0	8 3	26 38	3 4	10 33	1 44	17 26	1 27	19 50	0 2	10 0	1 34	7 35	15 56	20 5	20 28	0 15		n.a.
T 23	1 28	7 8	4 38	2 56	0 15	6 41	7 57	26 34	3 2	10 36	1 44	17 24	1 27	19 50	0 2	10 1	1 34	7 35	15 56	20 7	20 29	0 18		n.a.
W24	1 4	12 9	4 58	3 40	0 22	6 20	7 51	26 30	3 0	10 39	1 44	17 22	1 27	19 51	0 2	10 1	1 34	7 35	15 56	20 10	20 29	0 21		n.a.
T 25	0 40	16 44	5 4	4 23	0 28	5 59	7 43	26 26	2 58	10 41	1 44	17 21	1 27	19 51	0 2	10 2	1 33	7 36	15 56	20 12	20 30	0 24		n.a.
F 26	0 16	20 42	4 57	5 6	0 35	5 37	7 35	26 22	2 56	10 44	1 44	17 19	1 28	19 52	0 2	10 2	1 33	7 36	15 56	20 14	20 31	0 27		n.a.
S 27	0s 8	23 50	4 36	5 48	0 42	5 14	7 26	26 17	2 54	10 46	1 44	17 17	1 28	19 53	0 2	10 3	1 33	7 37	15 56	20 16	20 31	0 31		n.a.
S 28	0 32	25 52	4 2	6 30	0 49	4 51	7 16	26 13	2 52	10 48	1 44	17 15	1 28	19 53	0 2	10 4	1 33	7 37	15 56	20 17	20 32	0 34		n.a.
M29	0 56	26 37	3 15	7 12	0 55	4 27	7 6	26 8	2 50	10 51	1 44	17 14	1 28	19 54	0 2	10 4	1 33	7 38	15 56	20 18	20 33	0 37		n.a.
T 30	1s21	25n56	2n17	7s53	1s 2	4s 4	6s55	26s 3	2s48	10s53	1s43	17n12	1n28	19s54	0n 2	10s 5	1s33	7s38	15s57	20s18	20s33	0n40		n.a.

Julian Day Number = 1680027.5, Delta T = 03h15m58s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'50, Lahiri = - 5°30'49 Julian Calendar 1 Sept. 114 BCE == Greg. Calendar 29 Aug. 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

OCTOBER 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 24 28	4♎20'28	17♋11	18♎58	23°R48	11♑24	6°R14	17♌29	28♏ 3	8°R 3	17°R50	0♒23	29♑ 7	22♓22	n.a.	W 1
T 2	0 28 24	5°20'37	1♌ 0	20°28	23♍18	12° 1	6♓ 8	17°34	28° 6	8♓ 1	17♈49	0°R23	29° 3	22°28	n.a.	T 2
F 3	0 32 21	6°20'49	15°16	21°57	22°49	12°38	6° 2	17°40	28° 8	8° 0	17°48	0°22	29° 0	22°35	n.a.	F 3
S 4	0 36 17	7°21'02	29°56	23°25	22°21	13°15	5°57	17°46	28°11	7°59	17°47	0°19	28°57	22°42	n.a.	S 4
S 5	0 40 14	8°21'18	14♍56	24°53	21°56	13°52	5°51	17°52	28°14	7°57	17°46	0°14	28°54	22°48	n.a.	S 5
M 6	0 44 10	9°21'35	0♎10	26°20	21°33	14°30	5°45	17°57	28°16	7°56	17°45	0° 5	28°51	22°55	n.a.	M 6
T 7	0 48 7	10°21'54	15°26	27°47	21°12	15° 7	5°40	18° 3	28°19	7°54	17°44	29♑55	28°48	23° 2	n.a.	T 7
W 8	0 52 3	11°22'16	0♏34	29°12	20°54	15°45	5°35	18° 8	28°22	7°53	17°42	29°44	28°44	23° 8	n.a.	W 8
T 9	0 56 0	12°22'39	15°22	0♏38	20°37	16°23	5°30	18°14	28°24	7°52	17°41	29°34	28°41	23°15	n.a.	T 9
F 10	0 59 56	13°23'03	29°45	2° 2	20°23	17° 1	5°25	18°19	28°27	7°50	17°40	29°25	28°38	23°22	n.a.	F 10
S 11	1 3 53	14°23'30	13♐38	3°26	20°12	17°39	5°20	18°24	28°30	7°49	17°39	29°19	28°35	23°29	n.a.	S 11
S 12	1 7 50	15°23'57	27° 0	4°49	20° 3	18°17	5°16	18°30	28°33	7°48	17°38	29°16	28°32	23°35	n.a.	S 12
M13	1 11 46	16°24'27	9♑55	6°11	19°56	18°55	5°12	18°35	28°36	7°47	17°37	29°15	28°29	23°42	n.a.	M13
T 14	1 15 43	17°24'57	22°27	7°32	19°52	19°34	5° 7	18°40	28°39	7°46	17°36	29°14	28°25	23°49	n.a.	T 14
W15	1 19 39	18°25'29	4♒41	8°52	19°D51	20°12	5° 4	18°45	28°42	7°44	17°35	29°14	28°22	23°55	n.a.	W15
T 16	1 23 36	19°26'03	16°41	10°11	19°51	20°51	5° 0	18°50	28°45	7°43	17°33	29°13	28°19	24° 2	n.a.	T 16
F 17	1 27 32	20°26'37	28°34	11°28	19°55	21°30	4°56	18°55	28°48	7°42	17°32	29°10	28°16	24° 9	n.a.	F 17
S 18	1 31 29	21°27'13	10♓23	12°44	20° 0	22° 9	4°53	18°59	28°51	7°41	17°31	29° 4	28°13	24°15	n.a.	S 18
S 19	1 35 25	22°27'51	22°13	13°58	20° 8	22°48	4°50	19° 4	28°54	7°40	17°30	28°55	28° 9	24°22	n.a.	S 19
M20	1 39 22	23°28'30	4♈ 5	15°10	20°18	23°27	4°47	19° 9	28°57	7°39	17°29	28°43	28° 6	24°29	n.a.	M20
T 21	1 43 19	24°29'10	16° 3	16°19	20°30	24° 6	4°44	19°13	29° 0	7°38	17°28	28°29	28° 3	24°36	n.a.	T 21
W22	1 47 15	25°29'52	28° 7	17°26	20°45	24°45	4°42	19°17	29° 3	7°37	17°27	28°15	28° 0	24°42	n.a.	W22
T 23	1 51 12	26°30'35	10♉19	18°31	21° 1	25°25	4°39	19°22	29° 7	7°36	17°26	28° 0	27°57	24°49	n.a.	T 23
F 24	1 55 8	27°31'20	22°38	19°32	21°20	26° 4	4°37	19°26	29°10	7°35	17°24	27°47	27°54	24°56	n.a.	F 24
S 25	1 59 5	28°32'06	5♊ 7	20°29	21°40	26°44	4°35	19°30	29°13	7°34	17°23	27°36	27°50	25° 2	n.a.	S 25
S 26	2 3 1	29°32'54	17°45	21°22	22° 3	27°23	4°33	19°34	29°16	7°33	17°22	27°29	27°47	25° 9	n.a.	S 26
M27	2 6 58	0♏33'44	0♋36	22°10	22°27	28° 3	4°32	19°38	29°20	7°32	17°21	27°24	27°44	25°16	n.a.	M27
T 28	2 10 54	1°34'35	13°40	22°53	22°53	28°43	4°30	19°42	29°23	7°31	17°20	27°22	27°41	25°22	n.a.	T 28
W29	2 14 51	2°35'28	27° 1	23°29	23°21	29°23	4°29	19°46	29°26	7°31	17°19	27°22	27°38	25°29	n.a.	W29
T 30	2 18 48	3°36'22	10♌41	23°59	23°51	0♒ 3	4°28	19°50	29°30	7°30	17°18	27°21	27°35	25°36	n.a.	T 30
F 31	2 22 44	4♏37'18	24♌42	24♏21	24♍22	0♒43	4♓28	19♌53	29♏33	7♓29	17♈17	27♑20	27♑31	25♓43	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	1s45	23n45	1n10	8s34	1s 8	3s40	6s43	25s58	2s46	10s55	1s43	17n10	1n28	19s55	0n 2	10s 5	1s33	7s39	15s57	20s18	20s34	0n43			n.a.
T 2	2 9	20 6	0s 3	9 14	1 15	3 16	6 30	25 53	2 44	10 57	1 43	17 9	1 29	19 55	0 2	10 6	1 33	7 39	15 57	20 18	20 35	0 46			n.a.
F 3	2 33	15 12	1 18	9 53	1 21	2 53	6 17	25 47	2 42	10 59	1 43	17 7	1 29	19 56	0 2	10 6	1 33	7 40	15 57	20 18	20 35	0 49			n.a.
S 4	2 57	9 17	2 30	10 32	1 27	2 30	6 4	25 41	2 40	11 1	1 43	17 5	1 29	19 57	0 2	10 7	1 33	7 40	15 57	20 19	20 36	0 53			n.a.
S 5	3 21	2 43	3 33	11 11	1 33	2 7	5 50	25 35	2 38	11 3	1 42	17 4	1 29	19 57	0 2	10 7	1 33	7 41	15 57	20 20	20 37	0 56			n.a.
M 6	3 45	4s 4	4 22	11 49	1 39	1 45	5 36	25 29	2 36	11 5	1 42	17 2	1 29	19 58	0 2	10 8	1 33	7 41	15 57	20 22	20 37	0 59			n.a.
T 7	4 9	10 38	4 52	12 26	1 45	1 24	5 22	25 23	2 34	11 7	1 42	17 1	1 30	19 58	0 2	10 8	1 33	7 41	15 57	20 24	20 38	1 2			n.a.
W 8	4 33	16 30	5 2	13 2	1 50	1 3	5 8	25 17	2 32	11 9	1 42	16 59	1 30	19 59	0 2	10 9	1 33	7 42	15 57	20 26	20 39	1 5			n.a.
T 9	4 57	21 15	4 50	13 37	1 56	0 43	4 53	25 10	2 30	11 10	1 42	16 58	1 30	20 0	0 2	10 9	1 33	7 42	15 57	20 28	20 39	1 8			n.a.
F 10	5 20	24 34	4 21	14 12	2 1	0 24	4 38	25 3	2 28	11 12	1 41	16 56	1 30	20 0	0 2	10 10	1 33	7 43	15 57	20 30	20 40	1 11			n.a.
S 11	5 44	26 17	3 37	14 46	2 6	0 6	4 24	24 56	2 26	11 13	1 41	16 55	1 30	20 1	0 2	10 10	1 33	7 43	15 57	20 31	20 41	1 15			n.a.
S 12	6 8	26 22	2 42	15 19	2 10	0n11	4 9	24 49	2 24	11 15	1 41	16 53	1 30	20 2	0 2	10 11	1 33	7 44	15 57	20 32	20 41	1 18			n.a.
M13	6 31	25 0	1 41	15 51	2 15	0 27	3 54	24 42	2 22	11 16	1 41	16 52	1 31	20 2	0 2	10 11	1 33	7 44	15 57	20 32	20 42	1 21			n.a.
T 14	6 55	22 24	0 36	16 22	2 19	0 42	3 40	24 35	2 20	11 18	1 40	16 50	1 31	20 3	0 2	10 12	1 33	7 44	15 57	20 32	20 43	1 24			n.a.
W15	7 18	18 51	0n29	16 52	2 22	0 56	3 25	24 27	2 18	11 19	1 40	16 49	1 31	20 4	0 2	10 12	1 33	7 45	15 57	20 32	20 43	1 27			n.a.
T 16	7 41	14 34	1 31	17 20	2 26	1 8	3 11	24 19	2 16	11 20	1 40	16 48	1 31	20 4	0 2	10 12	1 33	7 45	15 57	20 33	20 44	1 30			n.a.
F 17	8 4	9 47	2 28	17 48	2 29	1 20	2 57	24 11	2 15	11 21	1 40	16 46	1 31	20 5	0 2	10 13	1 33	7 46	15 57	20 33	20 45	1 33			n.a.
S 18	8 27	4 41	3 19	18 14	2 31	1 31	2 43	24 3	2 13	11 22	1 39	16 45	1 32	20 6	0 2	10 13	1 33	7 46	15 57	20 35	20 45	1 37			n.a.
S 19	8 50	0n34	4 1	18 39	2 33	1 40	2 29	23 54	2 11	11 23	1 39	16 44	1 32	20 6	0 2	10 14	1 33	7 46	15 57	20 37	20 46	1 40			n.a.
M20	9 13	5 48	4 33	19 2	2 35	1 48	2 16	23 46	2 9	11 24	1 39	16 42	1 32	20 7	0 2	10 14	1 33	7 47	15 57	20 39	20 46	1 43			n.a.
T 21	9 36	10 52	4 52	19 23	2 36	1 56	2 3	23 37	2 7	11 25	1 39	16 41	1 32	20 8	0 2	10 14	1 33	7 47	15 57	20 42	20 47	1 46			n.a.
W22	9 58	15 34	4 59	19 43	2 36	2 2	1 50	23 28	2 5	11 25	1 38	16 40	1 33	20 8	0 2	10 15	1 33	7 47	15 56	20 45	20 48	1 49			n.a.
T 23	10 20	19 42	4 52	20 2	2 36	2 7	1 37	23 19	2 4	11 26	1 38	16 39	1 33	20 9	0 2	10 15	1 33	7 48	15 56	20 48	20 48	1 52			n.a.
F 24	10 42	23 1	4 32	20 18	2 35	2 11	1 25	23 10	2 2	11 26	1 38	16 38	1 33	20 10	0 2	10 15	1 33	7 48	15 56	20 50	20 49	1 55			n.a.
S 25	11 4	25 18	3 58	20 32	2 33	2 13	1 13	23 1	2 0	11 27	1 38	16 37	1 33	20 11	0 2	10 16	1 33	7 48	15 56	20 53	20 50	1 58			n.a.
S 26	11 26	26 20	3 13	20 43	2 30	2 15	1 1	22 51	1 58	11 27	1 37	16 36	1 33	20 11	0 2	10 16	1 33	7 49	15 56	20 54	20 50	2 2			n.a.
M27	11 48	25 59	2 16	20 53	2 27	2 16	0 50	22 41	1 56	11 28	1 37	16 34	1 34	20 12	0 2	10 16	1 33	7 49	15 56	20 55	20 51	2 5			n.a.
T 28	12 9	24 11	1 12	20 59	2 22	2 16	0 39	22 31	1 55	11 28	1 37	16 33	1 34	20 13	0 2	10 16	1 33	7 49	15 56	20 55	20 52	2 8			n.a.
W29	12 31	21 1	0 2	21 3	2 16	2 14	0 28	22 21	1 53	11 28	1 36	16 32	1 34	20 13	0 2	10 17	1 33	7 50	15 56	20 55	20 52	2 11			n.a.
T 30	12 52	16 38	1s10	21 4	2 9	2 12	0 18	22 11	1 51	11 28	1 36	16 31	1 34	20 14	0 2	10 17	1 33	7 50	15 56	20 55	20 53	2 14			n.a.
F 31	13s12	11n15	2s19	21s 1	2s 1	2n 9	0s 7	22s 0	1s50	11s28	1s36	16n30	1n35	20s15	0n 2	10s17	1s33	7s50	15s56	20s56	20s54	2n17			n.a.

Julian Day Number = 1680057.5, Delta T = 03h15m57s
Ecliptic obliquity = 23°42'37, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'46, Lahiri = - 5°30'45 Julian Calendar 1 Oct. 114 BCE == Greg. Calendar 28 Sept. 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

NOVEMBER 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 26 41	5♏38'15	9♍ 4	24♏35	24♍55	1♒23	4°R27	19♌57	29♏36	7°R28	17°R16	27°R17	27♉28	25♓49	n.a.	S 1
S 2	2 30 37	6°39'13	23°44	24°R39	25°29	2° 3	4♓27	20° 0	29°40	7♓28	17♈15	27♉11	27°25	25°56	n.a.	S 2
M 3	2 34 34	7°40'13	8♎39	24°34	26° 4	2°43	4°D27	20° 4	29°43	7°27	17°14	27° 2	27°22	26° 3	n.a.	M 3
T 4	2 38 30	8°41'15	23°39	24°17	26°41	3°23	4°27	20° 7	29°47	7°26	17°13	26°51	27°19	26° 9	n.a.	T 4
W 5	2 42 27	9°42'17	8♏35	23°50	27°20	4° 3	4°27	20°10	29°50	7°26	17°11	26°40	27°15	26°16	n.a.	W 5
T 6	2 46 23	10°43'21	23°19	23°11	27°59	4°44	4°28	20°13	29°53	7°25	17°10	26°28	27°12	26°23	n.a.	T 6
F 7	2 50 20	11°44'25	7♐42	22°22	28°40	5°24	4°29	20°16	29°57	7°25	17° 9	26°19	27° 9	26°30	n.a.	F 7
S 8	2 54 17	12°45'30	21°38	21°22	29°22	6° 5	4°30	20°19	0♐ 0	7°24	17° 8	26°12	27° 6	26°36	n.a.	S 8
S 9	2 58 13	13°46'37	5♑ 6	20°13	0♎ 5	6°45	4°31	20°22	0° 4	7°24	17° 7	26° 7	27° 3	26°43	n.a.	S 9
M10	3 2 10	14°47'43	18° 6	18°57	0°49	7°26	4°32	20°24	0° 8	7°23	17° 6	26° 5	27° 0	26°50	n.a.	M10
T 11	3 6 6	15°48'51	0♒43	17°36	1°34	8° 6	4°34	20°27	0°11	7°23	17° 5	26°D 5	26°56	26°56	n.a.	T 11
W12	3 10 3	16°49'58	12°59	16°13	2°20	8°47	4°36	20°29	0°15	7°23	17° 5	26°R 6	26°53	27° 3	n.a.	W12
T 13	3 13 59	17°51'06	25° 2	14°51	3° 7	9°28	4°38	20°32	0°18	7°22	17° 4	26° 5	26°50	27°10	n.a.	T 13
F 14	3 17 56	18°52'15	6♓55	13°32	3°55	10° 8	4°40	20°34	0°22	7°22	17° 3	26° 4	26°47	27°16	n.a.	F 14
S 15	3 21 53	19°53'24	18°45	12°20	4°44	10°49	4°42	20°36	0°25	7°22	17° 2	25°59	26°44	27°23	n.a.	S 15
S 16	3 25 49	20°54'34	0♈35	11°15	5°34	11°30	4°45	20°38	0°29	7°22	17° 1	25°53	26°40	27°30	n.a.	S 16
M17	3 29 46	21°55'43	12°31	10°19	6°25	12°11	4°48	20°40	0°33	7°21	17° 0	25°43	26°37	27°37	n.a.	M17
T 18	3 33 42	22°56'54	24°34	9°35	7°16	12°52	4°51	20°42	0°36	7°21	16°59	25°32	26°34	27°43	n.a.	T 18
W19	3 37 39	23°58'05	6♉47	9° 1	8° 8	13°33	4°54	20°44	0°40	7°21	16°58	25°20	26°31	27°50	n.a.	W19
T 20	3 41 35	24°59'16	19°11	8°38	9° 1	14°14	4°57	20°45	0°43	7°21	16°57	25° 8	26°28	27°57	n.a.	T 20
F 21	3 45 32	26° 0'27	1♊47	8°26	9°55	14°55	5° 1	20°47	0°47	7°21	16°56	24°57	26°25	28° 3	n.a.	F 21
S 22	3 49 28	27° 1'40	14°34	8°D24	10°49	15°36	5° 5	20°48	0°51	7°D21	16°56	24°49	26°21	28°10	n.a.	S 22
S 23	3 53 25	28° 2'52	27°32	8°32	11°44	16°17	5° 9	20°50	0°54	7°21	16°55	24°43	26°18	28°17	n.a.	S 23
M24	3 57 22	29° 4'06	10♋40	8°48	12°39	16°58	5°13	20°51	0°58	7°21	16°54	24°39	26°15	28°24	n.a.	M24
T 25	4 1 18	0♐ 5'19	24° 0	9°13	13°36	17°39	5°17	20°52	1° 2	7°21	16°53	24°D38	26°12	28°30	n.a.	T 25
W26	4 5 15	1° 6'33	7♌31	9°45	14°32	18°20	5°22	20°53	1° 5	7°21	16°52	24°39	26° 9	28°37	n.a.	W26
T 27	4 9 11	2° 7'48	21°15	10°23	15°30	19° 1	5°26	20°54	1° 9	7°21	16°52	24°40	26° 6	28°44	n.a.	T 27
F 28	4 13 8	3° 9'03	5♍11	11° 7	16°28	19°42	5°31	20°54	1°12	7°22	16°51	24°R40	26° 2	28°50	n.a.	F 28
S 29	4 17 4	4°10'19	19°19	11°56	17°26	20°23	5°36	20°55	1°16	7°22	16°50	24°39	25°59	28°57	n.a.	S 29
S 30	4 21 1	5♐11'34	3♎40	12♏49	18♎25	21♒ 4	5♓42	20♌56	1♐20	7♓22	16♈49	24♉36	25♉56	29♓ 4	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl		lat
S 1	13s33	5n 9	3s21	20s55	1s51	2n 5	0n 2	21s50	1s48	11s28	1s36	16n30	1n35	20s16	0n 2	10s17	1s33	7s51	15s55	20s56		20s54		2n20				n.a.
S 2	13 53	1s20	4 11	20 45	1 40	2 0	0 12	21 39	1 46	11 28	1 35	16 29	1 35	20 16	0 2	10 18	1 32	7 51	15 55	20 58		20 55		2 23				n.a.
M 3	14 14	7 50	4 45	20 31	1 27	1 54	0 21	21 28	1 44	11 28	1 35	16 28	1 35	20 17	0 2	10 18	1 32	7 51	15 55	20 59		20 55		2 26				n.a.
T 4	14 33	13 55	5 0	20 13	1 12	1 47	0 30	21 17	1 43	11 27	1 35	16 27	1 36	20 18	0 2	10 18	1 32	7 51	15 55	21 1		20 56		2 29				n.a.
W 5	14 53	19 9	4 54	19 51	0 56	1 40	0 39	21 6	1 41	11 27	1 34	16 26	1 36	20 19	0 2	10 18	1 32	7 52	15 55	21 4		20 57		2 33				n.a.
T 6	15 13	23 8	4 29	19 24	0 39	1 32	0 47	20 54	1 39	11 26	1 34	16 25	1 36	20 19	0 2	10 18	1 32	7 52	15 55	21 6		20 57		2 36				n.a.
F 7	15 32	25 34	3 47	18 54	0 20	1 23	0 55	20 43	1 38	11 26	1 34	16 25	1 36	20 20	0 2	10 19	1 32	7 52	15 55	21 8		20 58		2 39				n.a.
S 8	15 51	26 18	2 52	18 19	0 1	1 13	1 3	20 31	1 36	11 25	1 34	16 24	1 36	20 21	0 2	10 19	1 32	7 52	15 54	21 9		20 59		2 42				n.a.
S 9	16 9	25 25	1 49	17 41	0n20	1 2	1 10	20 19	1 35	11 24	1 33	16 23	1 37	20 22	0 2	10 19	1 32	7 53	15 54	21 10		20 59		2 45				n.a.
M10	16 27	23 10	0 42	17 0	0 40	0 51	1 17	20 7	1 33	11 24	1 33	16 23	1 37	20 22	0 2	10 19	1 32	7 53	15 54	21 10		21 0		2 48				n.a.
T 11	16 46	19 50	0n25	16 18	1 1	0 39	1 24	19 55	1 31	11 23	1 33	16 22	1 37	20 23	0 2	10 19	1 32	7 53	15 54	21 10		21 0		2 51				n.a.
W12	17 3	15 41	1 29	15 36	1 20	0 27	1 31	19 43	1 30	11 22	1 32	16 22	1 37	20 24	0 2	10 19	1 32	7 53	15 54	21 10		21 1		2 54				n.a.
T 13	17 21	11 1	2 27	14 55	1 38	0 14	1 37	19 30	1 28	11 21	1 32	16 21	1 38	20 25	0 2	10 19	1 32	7 53	15 54	21 10		21 2		2 57				n.a.
F 14	17 38	5 59	3 19	14 15	1 55	0 0	1 43	19 17	1 27	11 20	1 32	16 21	1 38	20 26	0 2	10 19	1 32	7 54	15 53	21 11		21 2		3 0				n.a.
S 15	17 55	0 48	4 2	13 39	2 10	0s14	1 49	19 5	1 25	11 19	1 31	16 20	1 38	20 26	0 2	10 19	1 32	7 54	15 53	21 11		21 3		3 4				n.a.
S 16	18 11	4n25	4 34	13 7	2 22	0 29	1 55	18 52	1 24	11 17	1 31	16 20	1 38	20 27	0 2	10 19	1 32	7 54	15 53	21 13		21 3		3 7				n.a.
M17	18 27	9 31	4 55	12 40	2 33	0 44	2 0	18 39	1 22	11 16	1 31	16 19	1 39	20 28	0 2	10 19	1 32	7 54	15 53	21 14		21 4		3 10				n.a.
T 18	18 43	14 18	5 3	12 18	2 41	1 0	2 5	18 26	1 21	11 15	1 31	16 19	1 39	20 29	0 2	10 19	1 32	7 54	15 52	21 16		21 5		3 13				n.a.
W19	18 59	18 36	4 57	12 2	2 47	1 16	2 10	18 12	1 19	11 13	1 30	16 19	1 39	20 29	0 2	10 19	1 32	7 54	15 52	21 19		21 5		3 16				n.a.
T 20	19 14	22 9	4 37	11 51	2 51	1 33	2 15	17 59	1 18	11 12	1 30	16 18	1 39	20 30	0 2	10 19	1 32	7 54	15 52	21 21		21 6		3 19				n.a.
F 21	19 28	24 43	4 3	11 45	2 53	1 50	2 19	17 45	1 16	11 10	1 30	16 18	1 40	20 31	0 2	10 19	1 32	7 54	15 52	21 23		21 7		3 22				n.a.
S 22	19 43	26 4	3 17	11 44	2 53	2 8	2 23	17 32	1 15	11 8	1 29	16 18	1 40	20 32	0 2	10 19	1 32	7 55	15 52	21 24		21 7		3 25				n.a.
S 23	19 57	26 1	2 20	11 47	2 52	2 26	2 27	17 18	1 13	11 7	1 29	16 18	1 40	20 32	0 2	10 19	1 32	7 55	15 51	21 26		21 8		3 28				n.a.
M24	20 11	24 30	1 14	11 55	2 50	2 44	2 31	17 4	1 12	11 5	1 29	16 18	1 40	20 33	0 2	10 19	1 32	7 55	15 51	21 26		21 8		3 31				n.a.
T 25	20 24	21 36	0 3	12 6	2 47	3 3	2 34	16 50	1 10	11 3	1 29	16 17	1 41	20 34	0 2	10 19	1 31	7 55	15 51	21 26		21 9		3 34				n.a.
W26	20 37	17 30	1s 9	12 20	2 42	3 22	2 38	16 36	1 9	11 1	1 28	16 17	1 41	20 35	0 2	10 19	1 31	7 55	15 51	21 26		21 10		3 37				n.a.
T 27	20 49	12 24	2 18	12 37	2 37	3 42	2 41	16 21	1 7	10 59	1 28	16 17	1 41	20 36	0 2	10 19	1 31	7 55	15 50	21 26		21 10		3 40				n.a.
F 28	21 1	6 37	3 20	12 56	2 32	4 2	2 44	16 7	1 6	10 57	1 28	16 17	1 41	20 36	0 2	10 19	1 31	7 55	15 50	21 26		21 11		3 44				n.a.
S 29	21 13	0 26	4 11	13 17	2 26	4 22	2 46	15 53	1 5	10 55	1 27	16 17	1 42	20 37	0 2	10 19	1 31	7 55	15 50	21 26		21 11		3 47				n.a.
S 30	21s24	5s51	4s47	13s39	2n19	4s42	2n49	15s38	1s 3	10s52	1s27	16n17	1n42	20s38	0n 2	10s19	1s31	7s55	15s50	21s27		21s12		3n50				n.a.

Julian Day Number = 1680088.5, Delta T = 03h15m56s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'41, Lahiri = - 5°30'41 Julian Calendar 1 Nov. 114 BCE == Greg. Calendar 29 Oct. 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 114 BCE
geocentric

DECEMBER 114 BCE (-113) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 24 57	6♐12'51	18♎ 8	13♏47	19♎24	21♒45	5♓47	20♌56	1♐23	7♓22	16°R49	24°R31	25♑53	29♓10	n.a.	M 1
T 2	4 28 54	7°14'07	2♏41	14°48	20°24	22°27	5°53	20°56	1°27	7°23	16♈48	24♑24	25°50	29°17	n.a.	T 2
W 3	4 32 51	8°15'24	17°11	15°52	21°24	23° 8	5°59	20°57	1°31	7°23	16°47	24°16	25°46	29°24	n.a.	W 3
T 4	4 36 47	9°16'41	1♐32	17° 0	22°25	23°49	6° 5	20°R57	1°34	7°24	16°47	24° 8	25°43	29°31	n.a.	T 4
F 5	4 40 44	10°17'58	15°39	18° 9	23°26	24°30	6°11	20°57	1°38	7°24	16°46	24° 2	25°40	29°37	n.a.	F 5
S 6	4 44 40	11°19'15	29°25	19°21	24°28	25°11	6°17	20°56	1°41	7°24	16°45	23°57	25°37	29°44	n.a.	S 6
S 7	4 48 37	12°20'31	12♑49	20°35	25°30	25°53	6°24	20°56	1°45	7°25	16°45	23°54	25°34	29°51	n.a.	S 7
M 8	4 52 33	13°21'47	25°49	21°50	26°32	26°34	6°30	20°56	1°49	7°25	16°44	23°D54	25°31	29°57	n.a.	M 8
T 9	4 56 30	14°23'03	8♒28	23° 7	27°35	27°15	6°37	20°55	1°52	7°26	16°44	23°55	25°27	0♈ 4	n.a.	T 9
W10	5 0 27	15°24'18	20°48	24°26	28°38	27°56	6°44	20°55	1°56	7°27	16°43	23°56	25°24	0°11	n.a.	W10
T 11	5 4 23	16°25'33	2♓54	25°46	29°41	28°38	6°51	20°54	1°59	7°27	16°43	23°58	25°21	0°18	n.a.	T 11
F 12	5 8 20	17°26'46	14°50	27° 7	0♏45	29°19	6°59	20°53	2° 3	7°28	16°42	23°R59	25°18	0°24	n.a.	F 12
S 13	5 12 16	18°27'59	26°42	28°29	1°49	0♓ 0	7° 6	20°52	2° 6	7°29	16°42	23°58	25°15	0°31	n.a.	S 13
S 14	5 16 13	19°29'12	8♈34	29°52	2°53	0°42	7°14	20°51	2°10	7°29	16°41	23°56	25°12	0°38	n.a.	S 14
M15	5 20 9	20°30'23	20°31	1♐16	3°57	1°23	7°21	20°50	2°13	7°30	16°41	23°53	25° 8	0°44	n.a.	M15
T 16	5 24 6	21°31'34	2♉37	2°41	5° 2	2° 4	7°29	20°49	2°17	7°31	16°40	23°48	25° 5	0°51	n.a.	T 16
W17	5 28 2	22°32'44	14°56	4° 6	6° 7	2°46	7°38	20°48	2°20	7°32	16°40	23°43	25° 2	0°58	n.a.	W17
T 18	5 31 59	23°33'54	27°30	5°33	7°13	3°27	7°46	20°46	2°24	7°33	16°40	23°37	24°59	1° 5	n.a.	T 18
F 19	5 35 56	24°35'03	10♊19	7° 0	8°18	4° 8	7°54	20°45	2°27	7°34	16°39	23°32	24°56	1°11	n.a.	F 19
S 20	5 39 52	25°36'11	23°25	8°28	9°24	4°49	8° 3	20°43	2°31	7°35	16°39	23°28	24°52	1°18	n.a.	S 20
S 21	5 43 49	26°37'18	6♋46	9°56	10°30	5°31	8°11	20°41	2°34	7°36	16°39	23°26	24°49	1°25	n.a.	S 21
M22	5 47 45	27°38'24	20°20	11°25	11°37	6°12	8°20	20°40	2°38	7°37	16°38	23°D25	24°46	1°31	n.a.	M22
T 23	5 51 42	28°39'30	4♌ 6	12°55	12°43	6°53	8°29	20°38	2°41	7°38	16°38	23°25	24°43	1°38	n.a.	T 23
W24	5 55 38	29°40'35	18° 1	14°26	13°50	7°34	8°38	20°36	2°44	7°39	16°38	23°26	24°40	1°45	n.a.	W24
T 25	5 59 35	0♑41'40	2♍ 2	15°57	14°57	8°16	8°47	20°34	2°48	7°40	16°38	23°28	24°37	1°52	n.a.	T 25
F 26	6 3 32	1°42'43	16° 9	17°28	16° 4	8°57	8°57	20°31	2°51	7°41	16°38	23°29	24°33	1°58	n.a.	F 26
S 27	6 7 28	2°43'47	0♎18	19° 1	17°11	9°38	9° 6	20°29	2°54	7°42	16°37	23°R30	24°30	2° 5	n.a.	S 27
S 28	6 11 25	3°44'49	14°29	20°34	18°19	10°19	9°16	20°27	2°57	7°43	16°37	23°29	24°27	2°12	n.a.	S 28
M29	6 15 21	4°45'51	28°39	22° 7	19°27	11° 1	9°26	20°24	3° 1	7°45	16°37	23°28	24°24	2°18	n.a.	M29
T 30	6 19 18	5°46'52	12♏46	23°41	20°34	11°42	9°35	20°21	3° 4	7°46	16°37	23°26	24°21	2°25	n.a.	T 30
W31	6 23 14	6♑47'52	26♏46	25♐16	21♏43	12♓23	9♓45	20♌19	3♐ 7	7♓47	16♈37	23♑24	24♑18	2♈32	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21s35	11s53	5s 5	14s 3	2n12	5s 3	2n51	15s23	1s 2	10s50	1s27	16n17	1n42	20s39	0n 2	10s18	1s31	7s55	15s49	21s28	21s13	3n53		n.a.
T 2	21 46	17 17	5 4	14 29	2 5	5 23	2 53	15 8	1 0	10 48	1 27	16 18	1 42	20 39	0 2	10 18	1 31	7 55	15 49	21 29	21 13	3 56		n.a.
W 3	21 56	21 40	4 43	14 55	1 57	5 44	2 55	14 53	0 59	10 45	1 26	16 18	1 43	20 40	0 2	10 18	1 31	7 55	15 49	21 30	21 14	3 59		n.a.
T 4	22 6	24 42	4 5	15 21	1 49	6 5	2 57	14 38	0 58	10 43	1 26	16 18	1 43	20 41	0 2	10 18	1 31	7 55	15 48	21 32	21 14	4 2		n.a.
F 5	22 15	26 6	3 12	15 48	1 41	6 27	2 58	14 23	0 56	10 40	1 26	16 18	1 43	20 42	0 2	10 18	1 31	7 55	15 48	21 33	21 15	4 5		n.a.
S 6	22 23	25 51	2 9	16 16	1 33	6 48	3 0	14 8	0 55	10 38	1 25	16 19	1 43	20 42	0 2	10 17	1 31	7 55	15 48	21 34	21 16	4 8		n.a.
S 7	22 32	24 5	1 0	16 44	1 25	7 10	3 1	13 53	0 54	10 35	1 25	16 19	1 44	20 43	0 2	10 17	1 31	7 55	15 48	21 34	21 16	4 11		n.a.
M 8	22 40	21 3	0n10	17 11	1 17	7 32	3 2	13 37	0 52	10 32	1 25	16 19	1 44	20 44	0 2	10 17	1 31	7 55	15 47	21 34	21 17	4 14		n.a.
T 9	22 47	17 5	1 18	17 39	1 9	7 53	3 3	13 22	0 51	10 29	1 25	16 20	1 44	20 45	0 2	10 17	1 31	7 55	15 47	21 34	21 17	4 17		n.a.
W10	22 54	12 30	2 21	18 6	1 1	8 15	3 3	13 6	0 50	10 27	1 24	16 20	1 45	20 45	0 2	10 16	1 31	7 55	15 47	21 34	21 18	4 20		n.a.
T 11	23 1	7 30	3 16	18 34	0 53	8 37	3 4	12 50	0 49	10 24	1 24	16 20	1 45	20 46	0 2	10 16	1 31	7 55	15 46	21 33	21 18	4 23		n.a.
F 12	23 7	2 19	4 2	19 0	0 45	8 59	3 4	12 35	0 47	10 21	1 24	16 21	1 45	20 47	0 2	10 16	1 31	7 54	15 46	21 33	21 19	4 26		n.a.
S 13	23 12	2n54	4 37	19 27	0 37	9 21	3 4	12 19	0 46	10 18	1 24	16 22	1 45	20 47	0 2	10 16	1 31	7 54	15 46	21 33	21 20	4 29		n.a.
S 14	23 17	8 1	5 1	19 53	0 29	9 43	3 5	12 3	0 45	10 14	1 23	16 22	1 46	20 48	0 2	10 15	1 31	7 54	15 45	21 34	21 20	4 32		n.a.
M15	23 22	12 53	5 11	20 18	0 21	10 5	3 4	11 47	0 44	10 11	1 23	16 23	1 46	20 49	0 2	10 15	1 31	7 54	15 45	21 34	21 21	4 35		n.a.
T 16	23 26	17 19	5 8	20 43	0 13	10 27	3 4	11 31	0 42	10 8	1 23	16 23	1 46	20 50	0 2	10 15	1 31	7 54	15 45	21 35	21 21	4 38		n.a.
W17	23 30	21 7	4 51	21 7	0 6	10 49	3 4	11 15	0 41	10 5	1 23	16 24	1 46	20 50	0 2	10 14	1 31	7 54	15 44	21 36	21 22	4 41		n.a.
T 18	23 33	24 2	4 19	21 30	0s 2	11 11	3 3	10 58	0 40	10 1	1 22	16 25	1 47	20 51	0 2	10 14	1 30	7 54	15 44	21 37	21 23	4 44		n.a.
F 19	23 36	25 47	3 34	21 52	0 9	11 33	3 3	10 42	0 39	9 58	1 22	16 25	1 47	20 52	0 2	10 13	1 30	7 53	15 44	21 38	21 23	4 47		n.a.
S 20	23 38	26 9	2 37	22 14	0 16	11 55	3 2	10 26	0 38	9 55	1 22	16 26	1 47	20 52	0 2	10 13	1 30	7 53	15 43	21 39	21 24	4 50		n.a.
S 21	23 40	25 2	1 30	22 35	0 23	12 16	3 1	10 9	0 36	9 51	1 22	16 27	1 47	20 53	0 2	10 13	1 30	7 53	15 43	21 39	21 24	4 54		n.a.
M22	23 41	22 26	0 17	22 54	0 30	12 38	3 0	9 53	0 35	9 48	1 21	16 28	1 47	20 54	0 2	10 12	1 30	7 53	15 43	21 39	21 25	4 57		n.a.
T 23	23 42	18 30	0s58	23 13	0 37	12 59	2 59	9 36	0 34	9 44	1 21	16 29	1 48	20 54	0 2	10 12	1 30	7 53	15 42	21 39	21 25	5 0		n.a.
W24	23 43	13 32	2 11	23 31	0 44	13 21	2 58	9 20	0 33	9 40	1 21	16 30	1 48	20 55	0 2	10 11	1 30	7 52	15 42	21 39	21 26	5 3		n.a.
T 25	23 42	7 49	3 17	23 47	0 50	13 42	2 56	9 3	0 32	9 37	1 21	16 30	1 48	20 56	0 2	10 11	1 30	7 52	15 42	21 39	21 27	5 6		n.a.
F 26	23 42	1 41	4 11	24 3	0 56	14 3	2 55	8 47	0 31	9 33	1 20	16 31	1 48	20 56	0 2	10 10	1 30	7 52	15 41	21 38	21 27	5 9		n.a.
S 27	23 41	4s33	4 50	24 17	1 2	14 23	2 53	8 30	0 30	9 29	1 20	16 32	1 49	20 57	0 2	10 10	1 30	7 52	15 41	21 38	21 28	5 12		n.a.
S 28	23 39	10 33	5 11	24 30	1 8	14 44	2 52	8 13	0 28	9 25	1 20	16 33	1 49	20 58	0 2	10 9	1 30	7 51	15 41	21 38	21 28	5 15		n.a.
M29	23 37	15 59	5 14	24 41	1 13	15 4	2 50	7 56	0 27	9 21	1 20	16 34	1 49	20 58	0 2	10 9	1 30	7 51	15 40	21 39	21 29	5 18		n.a.
T 30	23 35	20 33	4 58	24 52	1 19	15 24	2 48	7 40	0 26	9 17	1 20	16 35	1 49	20 59	0 2	10 8	1 30	7 51	15 40	21 39	21 29	5 21		n.a.
W31	23s32	23s55	4s24	25s 1	1s24	15s44	2n46	7s23	0s25	9s13	1s19	16n37	1n50	21s 0	0n 1	10s 8	1s30	7s51	15s40	21s39	21s30	5n24		n.a.

Julian Day Number = 1680118.5, Delta T = 03h15m56s
Ecliptic obliquity = 23°42'36, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'37, Lahiri = - 5°30'37 Julian Calendar 1 Dec. 114 BCE == Greg. Calendar 28 Nov. 114 BCE

The year -113 astronomical counting style corresponds to year 114 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

JANUARY 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 11	7♉48'52	10♐37	26♐52	22♏51	13♓ 4	9♓55	20°R16	3♐10	7♓49	16°R37	23°R21	24♉14	2♈39	n.a.	T 1
F 2	6 31 7	8°49'50	24°16	28°28	23°59	13°45	10° 6	20♌13	3°13	7°50	16♈37	23♉20	24°11	2°45	n.a.	F 2
S 3	6 35 4	9°50'48	7♉40	0♉ 5	25° 8	14°26	10°16	20°10	3°17	7°51	16°D37	23°18	24° 8	2°52	n.a.	S 3
S 4	6 39 1	10°51'44	20°48	1°43	26°16	15° 8	10°26	20° 7	3°20	7°53	16°37	23°D18	24° 5	2°59	n.a.	S 4
M 5	6 42 57	11°52'39	3♒39	3°21	27°25	15°49	10°37	20° 4	3°23	7°54	16°37	23°18	24° 2	3° 5	n.a.	M 5
T 6	6 46 54	12°53'32	16°13	5° 0	28°34	16°30	10°48	20° 1	3°26	7°56	16°37	23°19	23°58	3°12	n.a.	T 6
W 7	6 50 50	13°54'24	28°32	6°40	29°43	17°11	10°58	19°57	3°29	7°57	16°37	23°20	23°55	3°19	n.a.	W 7
T 8	6 54 47	14°55'14	10♓38	8°20	0♐52	17°52	11° 9	19°54	3°32	7°59	16°37	23°21	23°52	3°26	n.a.	T 8
F 9	6 58 43	15°56'03	22°36	10° 2	2° 1	18°33	11°20	19°50	3°35	8° 0	16°37	23°21	23°49	3°32	n.a.	F 9
S 10	7 2 40	16°56'50	4♈28	11°44	3°11	19°14	11°31	19°47	3°37	8° 2	16°37	23°22	23°46	3°39	n.a.	S 10
S 11	7 6 36	17°57'35	16°21	13°27	4°20	19°55	11°43	19°43	3°40	8° 3	16°37	23°R22	23°43	3°46	n.a.	S 11
M12	7 10 33	18°58'19	28°17	15°11	5°30	20°36	11°54	19°39	3°43	8° 5	16°38	23°22	23°39	3°52	n.a.	M12
T 13	7 14 30	19°59'00	10♉23	16°55	6°40	21°17	12° 5	19°36	3°46	8° 6	16°38	23°22	23°36	3°59	n.a.	T 13
W14	7 18 26	20°59'41	22°43	18°41	7°49	21°59	12°17	19°32	3°49	8° 8	16°38	23°22	23°33	4° 6	n.a.	W14
T 15	7 22 23	22° 0'19	5♊19	20°27	8°59	22°39	12°28	19°28	3°51	8°10	16°38	23°21	23°30	4°13	n.a.	T 15
F 16	7 26 19	23° 0'56	18°15	22°14	10° 9	23°20	12°40	19°24	3°54	8°12	16°39	23°D21	23°27	4°19	n.a.	F 16
S 17	7 30 16	24° 1'31	1♋33	24° 2	11°19	24° 1	12°52	19°20	3°57	8°13	16°39	23°21	23°24	4°26	n.a.	S 17
S 18	7 34 12	25° 2'04	15°12	25°50	12°30	24°42	13° 4	19°16	3°59	8°15	16°39	23°21	23°20	4°33	n.a.	S 18
M19	7 38 9	26° 2'35	29°10	27°40	13°40	25°23	13°16	19°12	4° 2	8°17	16°39	23°R21	23°17	4°39	n.a.	M19
T 20	7 42 5	27° 3'05	13♌24	29°30	14°50	26° 4	13°28	19° 8	4° 5	8°19	16°40	23°21	23°14	4°46	n.a.	T 20
W21	7 46 2	28° 3'33	27°48	1♒21	16° 1	26°45	13°40	19° 3	4° 7	8°20	16°40	23°21	23°11	4°53	n.a.	W21
T 22	7 49 59	29° 4'00	12♍18	3°12	17°11	27°26	13°52	18°59	4°10	8°22	16°41	23°20	23° 8	5° 0	n.a.	T 22
F 23	7 53 55	0♒ 4'25	26°48	5° 5	18°22	28° 7	14° 4	18°55	4°12	8°24	16°41	23°19	23° 4	5° 6	n.a.	F 23
S 24	7 57 52	1° 4'48	11♎13	6°57	19°33	28°47	14°16	18°50	4°14	8°26	16°41	23°19	23° 1	5°13	n.a.	S 24
S 25	8 1 48	2° 5'10	25°30	8°50	20°43	29°28	14°29	18°46	4°17	8°28	16°42	23°18	22°58	5°20	n.a.	S 25
M26	8 5 45	3° 5'30	9♏35	10°43	21°54	0♈ 9	14°41	18°42	4°19	8°30	16°42	23°D18	22°55	5°26	n.a.	M26
T 27	8 9 41	4° 5'50	23°27	12°37	23° 5	0°50	14°54	18°37	4°21	8°32	16°43	23°19	22°52	5°33	n.a.	T 27
W28	8 13 38	5° 6'07	7♐ 6	14°30	24°16	1°30	15° 7	18°33	4°24	8°34	16°43	23°20	22°49	5°40	n.a.	W28
T 29	8 17 34	6° 6'23	20°31	16°23	25°27	2°11	15°19	18°28	4°26	8°36	16°44	23°21	22°45	5°47	n.a.	T 29
F 30	8 21 31	7° 6'37	3♑43	18°15	26°38	2°52	15°32	18°23	4°28	8°38	16°44	23°22	22°42	5°53	n.a.	F 30
S 31	8 25 28	8♒ 6'50	16♑41	20♒ 6	27♐49	3♈33	15♓45	18♌19	4♐30	8♓40	16♈45	23♑23	22♑39	6♈ 0	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	23 s29	25 s50	3 s34	25 s 9	1 s28	16 s 3	2n44	7 s 6	0 s24	9 s 9	1 s19	16n38	1n50	21 s 0	0n 1	10 s 7	1 s30	7 s50	15 s39	21 s40	21 s31	5n27			n.a.
F 2	23 25	26 9	2 34	25 15	1 33	16 22	2 42	6 49	0 23	9 5	1 19	16 39	1 50	21 1	0 1	10 7	1 30	7 50	15 39	21 40	21 31	5 30			n.a.
S 3	23 20	24 54	1 25	25 20	1 37	16 41	2 39	6 32	0 22	9 1	1 19	16 40	1 50	21 1	0 1	10 6	1 30	7 50	15 39	21 40	21 32	5 33			n.a.
S 4	23 16	22 18	0 14	25 23	1 41	17 0	2 37	6 15	0 21	8 57	1 19	16 41	1 50	21 2	0 1	10 6	1 30	7 49	15 38	21 40	21 32	5 36			n.a.
M 5	23 10	18 38	0n57	25 25	1 45	17 18	2 35	5 58	0 20	8 52	1 18	16 42	1 51	21 3	0 1	10 5	1 30	7 49	15 38	21 40	21 33	5 39			n.a.
T 6	23 5	14 11	2 4	25 25	1 48	17 36	2 32	5 41	0 19	8 48	1 18	16 44	1 51	21 3	0 1	10 5	1 30	7 49	15 38	21 40	21 33	5 42			n.a.
W 7	22 58	9 15	3 3	25 23	1 51	17 53	2 29	5 23	0 18	8 44	1 18	16 45	1 51	21 4	0 1	10 4	1 30	7 48	15 37	21 40	21 34	5 45			n.a.
T 8	22 52	4 4	3 53	25 20	1 54	18 10	2 27	5 6	0 17	8 40	1 18	16 46	1 51	21 4	0 1	10 3	1 30	7 48	15 37	21 40	21 34	5 48			n.a.
F 9	22 45	1n12	4 33	25 15	1 56	18 27	2 24	4 49	0 16	8 35	1 18	16 47	1 51	21 5	0 1	10 3	1 30	7 48	15 37	21 40	21 35	5 51			n.a.
S 10	22 37	6 23	5 0	25 9	1 58	18 43	2 21	4 32	0 15	8 31	1 17	16 49	1 52	21 6	0 1	10 2	1 30	7 47	15 36	21 40	21 36	5 54			n.a.
S 11	22 29	11 20	5 15	25 0	1 59	18 59	2 18	4 15	0 14	8 26	1 17	16 50	1 52	21 6	0 1	10 2	1 30	7 47	15 36	21 40	21 36	5 56			n.a.
M12	22 21	15 53	5 16	24 50	2 1	19 14	2 15	3 58	0 13	8 22	1 17	16 51	1 52	21 7	0 1	10 1	1 30	7 47	15 36	21 40	21 37	5 59			n.a.
T 13	22 12	19 53	5 3	24 38	2 1	19 29	2 12	3 40	0 12	8 17	1 17	16 53	1 52	21 7	0 1	10 0	1 29	7 46	15 35	21 40	21 37	6 2			n.a.
W14	22 3	23 6	4 37	24 24	2 2	19 44	2 9	3 23	0 11	8 12	1 17	16 54	1 52	21 8	0 1	10 0	1 29	7 46	15 35	21 40	21 38	6 5			n.a.
T 15	21 53	25 18	3 56	24 8	2 2	19 58	2 6	3 6	0 10	8 8	1 16	16 56	1 53	21 8	0 1	9 59	1 29	7 45	15 35	21 40	21 38	6 8			n.a.
F 16	21 43	26 13	3 3	23 51	2 1	20 12	2 3	2 49	0 9	8 3	1 16	16 57	1 53	21 9	0 1	9 58	1 29	7 45	15 34	21 40	21 39	6 11			n.a.
S 17	21 33	25 40	1 58	23 31	2 0	20 25	2 0	2 31	0 8	7 58	1 16	16 59	1 53	21 9	0 1	9 58	1 29	7 45	15 34	21 40	21 39	6 14			n.a.
S 18	21 22	23 35	0 45	23 10	1 59	20 37	1 57	2 14	0 7	7 54	1 16	17 0	1 53	21 10	0 1	9 57	1 29	7 44	15 34	21 40	21 40	6 17			n.a.
M19	21 11	20 2	0 s32	22 46	1 57	20 49	1 53	1 57	0 6	7 49	1 16	17 1	1 53	21 10	0 1	9 56	1 29	7 44	15 33	21 40	21 41	6 20			n.a.
T 20	20 59	15 15	1 49	22 21	1 54	21 1	1 50	1 40	0 5	7 44	1 16	17 3	1 53	21 11	0 1	9 55	1 29	7 43	15 33	21 40	21 41	6 23			n.a.
W21	20 47	9 34	3 0	21 53	1 51	21 12	1 47	1 23	0 5	7 39	1 15	17 4	1 54	21 11	0 1	9 55	1 29	7 43	15 33	21 40	21 42	6 26			n.a.
T 22	20 35	3 20	3 59	21 24	1 47	21 22	1 43	1 5	0 4	7 34	1 15	17 6	1 54	21 12	0 1	9 54	1 29	7 42	15 32	21 40	21 42	6 29			n.a.
F 23	20 22	3 s 3	4 44	20 52	1 43	21 32	1 40	0 48	0 3	7 29	1 15	17 7	1 54	21 12	0 1	9 53	1 29	7 42	15 32	21 40	21 43	6 32			n.a.
S 24	20 9	9 14	5 10	20 19	1 38	21 41	1 36	0 31	0 2	7 24	1 15	17 9	1 54	21 13	0 1	9 53	1 29	7 41	15 32	21 40	21 43	6 35			n.a.
S 25	19 55	14 52	5 17	19 44	1 32	21 50	1 33	0 14	0 1	7 19	1 15	17 11	1 54	21 13	0 1	9 52	1 29	7 41	15 31	21 40	21 44	6 38			n.a.
M26	19 41	19 38	5 4	19 7	1 26	21 58	1 29	0n 3	0 0	7 14	1 15	17 12	1 54	21 14	0 1	9 51	1 29	7 40	15 31	21 40	21 44	6 41			n.a.
T 27	19 27	23 16	4 34	18 29	1 19	22 6	1 26	0 21	0n 1	7 9	1 15	17 14	1 55	21 14	0 1	9 50	1 29	7 40	15 31	21 40	21 45	6 44			n.a.
W28	19 12	25 30	3 49	17 49	1 12	22 13	1 22	0 38	0 2	7 4	1 14	17 15	1 55	21 14	0 1	9 50	1 29	7 39	15 30	21 40	21 45	6 47			n.a.
T 29	18 57	26 13	2 52	17 7	1 3	22 19	1 19	0 55	0 2	6 59	1 14	17 17	1 55	21 15	0 1	9 49	1 29	7 39	15 30	21 40	21 46	6 50			n.a.
F 30	18 42	25 26	1 47	16 24	0 54	22 25	1 15	1 12	0 3	6 54	1 14	17 18	1 55	21 15	0 1	9 48	1 29	7 38	15 30	21 40	21 46	6 53			n.a.
S 31	18 s27	23 s16	0 s37	15 s39	0 s45	22 s30	1n12	1n29	0n 4	6 s49	1 s14	17n20	1n55	21 s16	0n 1	9 s47	1 s29	7 s38	15 s29	21 s40	21 s47	6n56			n.a.

Julian Day Number = 1680149.5, Delta T = 03h15m55s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'33, Lahiri = - 5°30'33 Julian Calendar 1 Jan. 113 BCE == Greg. Calendar 29 Dec. 114 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

FEBRUARY 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 29 24	9♒ 7'00	29♉28	21♒56	29♐ 0	4♈13	15♓58	18°R14	4♐32	8♓42	16♈46	23°R23	22♉36	6♈ 7	n.a.	S 1
M 2	8 33 21	10° 7'09	12♒ 2	23°44	0♉12	4°54	16°11	18♌ 9	4°34	8°44	16°46	23♉22	22°33	6°14	n.a.	M 2
T 3	8 37 17	11° 7'16	24°24	25°30	1°23	5°34	16°24	18° 5	4°36	8°46	16°47	23°20	22°30	6°20	n.a.	T 3
W 4	8 41 14	12° 7'20	6♓36	27°13	2°34	6°15	16°37	18° 0	4°38	8°48	16°48	23°17	22°26	6°27	n.a.	W 4
T 5	8 45 10	13° 7'23	18°39	28°53	3°46	6°56	16°50	17°55	4°40	8°50	16°48	23°14	22°23	6°34	n.a.	T 5
F 6	8 49 7	14° 7'23	0♈35	0♓30	4°57	7°36	17° 3	17°50	4°42	8°52	16°49	23°11	22°20	6°40	n.a.	F 6
S 7	8 53 3	15° 7'21	12°28	2° 2	6° 9	8°17	17°17	17°46	4°43	8°54	16°50	23° 7	22°17	6°47	n.a.	S 7
S 8	8 57 0	16° 7'17	24°20	3°30	7°20	8°57	17°30	17°41	4°45	8°56	16°50	23° 5	22°14	6°54	n.a.	S 8
M 9	9 0 57	17° 7'11	6♉15	4°52	8°32	9°38	17°43	17°36	4°47	8°58	16°51	23° 3	22°10	7° 1	n.a.	M 9
T 10	9 4 53	18° 7'02	18°18	6° 9	9°43	10°18	17°57	17°31	4°48	9° 0	16°52	23°D 3	22° 7	7° 7	n.a.	T 10
W11	9 8 50	19° 6'51	0♊34	7°19	10°55	10°58	18°10	17°27	4°50	9° 3	16°53	23° 3	22° 4	7°14	n.a.	W11
T 12	9 12 46	20° 6'38	13° 7	8°23	12° 7	11°39	18°24	17°22	4°52	9° 5	16°53	23° 4	22° 1	7°21	n.a.	T 12
F 13	9 16 43	21° 6'23	26° 2	9°19	13°18	12°19	18°37	17°17	4°53	9° 7	16°54	23° 6	21°58	7°27	n.a.	F 13
S 14	9 20 39	22° 6'05	9♋21	10° 8	14°30	12°59	18°51	17°12	4°55	9° 9	16°55	23° 8	21°55	7°34	n.a.	S 14
S 15	9 24 36	23° 5'45	23° 6	10°49	15°42	13°40	19° 4	17° 8	4°56	9°11	16°56	23°R 8	21°51	7°41	n.a.	S 15
M16	9 28 32	24° 5'22	7♌17	11°22	16°54	14°20	19°18	17° 3	4°57	9°14	16°57	23° 7	21°48	7°48	n.a.	M16
T 17	9 32 29	25° 4'57	21°50	11°47	18° 5	15° 0	19°32	16°58	4°59	9°16	16°58	23° 5	21°45	7°54	n.a.	T 17
W18	9 36 26	26° 4'30	6♍40	12° 3	19°17	15°41	19°46	16°54	5° 0	9°18	16°59	23° 1	21°42	8° 1	n.a.	W18
T 19	9 40 22	27° 4'01	21°38	12°11	20°29	16°21	20° 0	16°49	5° 1	9°20	17° 0	22°57	21°39	8° 8	n.a.	T 19
F 20	9 44 19	28° 3'30	6♎35	12°R11	21°41	17° 1	20°13	16°44	5° 2	9°22	17° 0	22°51	21°36	8°14	n.a.	F 20
S 21	9 48 15	29° 2'57	21°24	12° 3	22°53	17°41	20°27	16°40	5° 3	9°25	17° 1	22°47	21°32	8°21	n.a.	S 21
S 22	9 52 12	0♓ 2'22	5♏57	11°48	24° 5	18°21	20°41	16°35	5° 4	9°27	17° 2	22°43	21°29	8°28	n.a.	S 22
M23	9 56 8	1° 1'46	20°10	11°25	25°17	19° 1	20°55	16°31	5° 5	9°29	17° 3	22°41	21°26	8°35	n.a.	M23
T 24	10 0 5	2° 1'08	4♐ 1	10°56	26°29	19°41	21° 9	16°26	5° 6	9°31	17° 4	22°D40	21°23	8°41	n.a.	T 24
W25	10 4 1	3° 0'27	17°31	10°21	27°41	20°21	21°23	16°22	5° 7	9°34	17° 5	22°41	21°20	8°48	n.a.	W25
T 26	10 7 58	3°59'45	0♉41	9°41	28°53	21° 1	21°37	16°17	5° 8	9°36	17° 6	22°43	21°16	8°55	n.a.	T 26
F 27	10 11 54	4°59'01	13°35	8°57	0♒ 6	21°41	21°51	16°13	5° 9	9°38	17° 7	22°44	21°13	9° 1	n.a.	F 27
S 28	10 15 51	5°58'15	26°14	8°10	1°18	22°21	22° 5	16° 9	5° 9	9°40	17° 9	22°R44	21°10	9° 8	n.a.	S 28
S 29	10 19 48	6♓57'28	8♒41	7♓21	2♒30	23♈ 1	22♓19	16♌ 4	5♐10	9♓43	17♈10	22♉43	21♉ 7	9♈15	n.a.	S 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s11	19s57	0n34	14s54	0s35	22s34	1n 8	1n46	0n 5	6s44	1s14	17n21	1n55	21s16	0n 1	9s46	1s29	7s37	15s29	21s40	21s47	6n58		n.a.
M 2	17 54	15 46	1 41	14 8	0 24	22 38	1 4	2 3	0 6	6 38	1 14	17 23	1 55	21 16	0 1	9 46	1 29	7 37	15 29	21 40	21 48	7 1		n.a.
T 3	17 38	10 59	2 43	13 21	0 12	22 41	1 1	2 20	0 6	6 33	1 14	17 25	1 55	21 17	0 1	9 45	1 29	7 36	15 28	21 40	21 49	7 4		n.a.
W 4	17 21	5 51	3 36	12 35	0 0	22 44	0 57	2 37	0 7	6 28	1 13	17 26	1 55	21 17	0 1	9 44	1 29	7 36	15 28	21 41	21 49	7 7		n.a.
T 5	17 4	0 34	4 19	11 48	0n13	22 46	0 54	2 54	0 8	6 23	1 13	17 28	1 56	21 17	0 1	9 43	1 29	7 35	15 28	21 41	21 50	7 10		n.a.
F 6	16 47	4n40	4 50	11 1	0 26	22 47	0 50	3 11	0 9	6 17	1 13	17 29	1 56	21 18	0 1	9 42	1 29	7 35	15 27	21 42	21 50	7 13		n.a.
S 7	16 29	9 42	5 9	10 16	0 39	22 48	0 46	3 28	0 10	6 12	1 13	17 31	1 56	21 18	0 1	9 42	1 29	7 34	15 27	21 42	21 51	7 16		n.a.
S 8	16 11	14 23	5 14	9 31	0 53	22 47	0 43	3 45	0 10	6 7	1 13	17 33	1 56	21 18	0 1	9 41	1 29	7 34	15 27	21 43	21 51	7 19		n.a.
M 9	15 53	18 33	5 6	8 48	1 7	22 47	0 39	4 1	0 11	6 1	1 13	17 34	1 56	21 19	0 1	9 40	1 29	7 33	15 26	21 43	21 52	7 22		n.a.
T 10	15 34	22 1	4 44	8 6	1 21	22 45	0 36	4 18	0 12	5 56	1 13	17 36	1 56	21 19	0 1	9 39	1 29	7 32	15 26	21 43	21 52	7 25		n.a.
W11	15 16	24 34	4 10	7 27	1 35	22 43	0 32	4 35	0 13	5 50	1 13	17 37	1 56	21 19	0 1	9 38	1 29	7 32	15 26	21 43	21 53	7 28		n.a.
T 12	14 57	25 58	3 22	6 50	1 49	22 41	0 29	4 52	0 13	5 45	1 13	17 39	1 56	21 20	0 1	9 38	1 29	7 31	15 26	21 43	21 53	7 30		n.a.
F 13	14 37	26 2	2 23	6 16	2 3	22 37	0 25	5 8	0 14	5 40	1 12	17 40	1 56	21 20	0 1	9 37	1 29	7 31	15 25	21 42	21 54	7 33		n.a.
S 14	14 18	24 37	1 15	5 45	2 17	22 33	0 22	5 25	0 15	5 34	1 12	17 42	1 56	21 20	0 1	9 36	1 29	7 30	15 25	21 42	21 54	7 36		n.a.
S 15	13 58	21 43	0 0	5 17	2 30	22 29	0 18	5 41	0 15	5 29	1 12	17 43	1 56	21 21	0 1	9 35	1 29	7 30	15 25	21 42	21 55	7 39		n.a.
M16	13 38	17 25	1s17	4 53	2 42	22 23	0 15	5 58	0 16	5 23	1 12	17 45	1 56	21 21	0 1	9 34	1 29	7 29	15 24	21 42	21 55	7 42		n.a.
T 17	13 18	12 1	2 30	4 33	2 53	22 17	0 11	6 14	0 17	5 17	1 12	17 46	1 56	21 21	0 1	9 33	1 29	7 28	15 24	21 43	21 56	7 45		n.a.
W18	12 58	5 50	3 35	4 17	3 4	22 11	0 8	6 30	0 18	5 12	1 12	17 48	1 56	21 21	0 1	9 32	1 29	7 28	15 24	21 43	21 56	7 48		n.a.
T 19	12 38	0s43	4 26	4 5	3 13	22 3	0 4	6 47	0 18	5 6	1 12	17 49	1 57	21 21	0 1	9 32	1 29	7 27	15 24	21 44	21 57	7 51		n.a.
F 20	12 17	7 12	4 59	3 58	3 22	21 55	0 1	7 3	0 19	5 1	1 12	17 51	1 57	21 22	0 1	9 31	1 29	7 27	15 23	21 45	21 57	7 54		n.a.
S 21	11 56	13 13	5 11	3 54	3 29	21 47	0s 2	7 19	0 20	4 55	1 12	17 52	1 57	21 22	0 1	9 30	1 29	7 26	15 23	21 46	21 58	7 56		n.a.
S 22	11 35	18 24	5 3	3 55	3 34	21 38	0 5	7 35	0 20	4 50	1 12	17 54	1 57	21 22	0 1	9 29	1 29	7 25	15 23	21 46	21 58	7 59		n.a.
M23	11 14	22 25	4 36	4 0	3 38	21 28	0 9	7 51	0 21	4 44	1 12	17 55	1 57	21 22	0 1	9 28	1 29	7 25	15 23	21 47	21 59	8 2		n.a.
T 24	10 52	25 1	3 54	4 10	3 40	21 17	0 12	8 7	0 22	4 38	1 11	17 56	1 57	21 22	0 1	9 27	1 29	7 24	15 22	21 47	21 59	8 5		n.a.
W25	10 31	26 6	2 59	4 22	3 40	21 6	0 15	8 23	0 22	4 33	1 11	17 58	1 57	21 23	0 1	9 26	1 29	7 24	15 22	21 47	22 0	8 8		n.a.
T 26	10 9	25 39	1 57	4 39	3 39	20 55	0 18	8 39	0 23	4 27	1 11	17 59	1 57	21 23	0 1	9 26	1 29	7 23	15 22	21 46	22 0	8 11		n.a.
F 27	9 47	23 50	0 49	4 59	3 36	20 42	0 21	8 55	0 24	4 21	1 11	18 0	1 57	21 23	0 1	9 25	1 29	7 22	15 22	21 46	22 1	8 14		n.a.
S 28	9 25	20 50	0n19	5 21	3 31	20 29	0 24	9 10	0 24	4 16	1 11	18 2	1 57	21 23	0 1	9 24	1 29	7 22	15 21	21 46	22 1	8 17		n.a.
S 29	9s 3	16s55	1n25	5s46	3n24	20s16	0s27	9n26	0n25	4s10	1s11	18n 3	1n57	21s23	0n 1	9s23	1s29	7s21	15s21	21s46	22s 2	8n19		n.a.

Julian Day Number = 1680180.5, Delta T = 03h15m54s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'29, Lahiri = - 5°30'28 Julian Calendar 1 Feb. 113 BCE == Greg. Calendar 29 Jan. 113 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

MARCH 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 23 44	7♓56'38	20♒59	6°R30	3♒42	23♈41	22♓34	16°R 0	5♐11	9♓45	17♈11	22°R39	21♉ 4	9♈22	n.a.	M 1
T 2	10 27 41	8°55'46	3♓ 8	5♓40	4°54	24°21	22°48	15♌56	5°11	9°47	17°12	22♉33	21° 1	9°28	n.a.	T 2
W 3	10 31 37	9°54'51	15°11	4°50	6° 7	25° 1	23° 2	15°52	5°12	9°50	17°13	22°26	20°57	9°35	n.a.	W 3
T 4	10 35 34	10°53'55	27° 8	4° 3	7°19	25°41	23°16	15°48	5°12	9°52	17°14	22°17	20°54	9°42	n.a.	T 4
F 5	10 39 30	11°52'56	9♈ 2	3°18	8°31	26°21	23°30	15°44	5°13	9°54	17°15	22° 7	20°51	9°49	n.a.	F 5
S 6	10 43 27	12°51'56	20°54	2°36	9°44	27° 1	23°45	15°40	5°13	9°56	17°16	21°57	20°48	9°55	n.a.	S 6
S 7	10 47 23	13°50'52	2♉45	1°58	10°56	27°40	23°59	15°36	5°14	9°59	17°17	21°49	20°45	10° 2	n.a.	S 7
M 8	10 51 20	14°49'47	14°40	1°25	12° 8	28°20	24°13	15°32	5°14	10° 1	17°19	21°43	20°41	10° 9	n.a.	M 8
T 9	10 55 17	15°48'39	26°42	0°56	13°21	29° 0	24°28	15°28	5°14	10° 3	17°20	21°38	20°38	10°15	n.a.	T 9
W10	10 59 13	16°47'30	8♊55	0°33	14°33	29°40	24°42	15°24	5°14	10° 5	17°21	21°36	20°35	10°22	n.a.	W10
T 11	11 3 10	17°46'17	21°24	0°15	15°45	0♉19	24°56	15°21	5°14	10° 8	17°22	21°D36	20°32	10°29	n.a.	T 11
F 12	11 7 6	18°45'03	4♋13	0° 2	16°58	0°59	25°11	15°17	5°14	10°10	17°23	21°37	20°29	10°36	n.a.	F 12
S 13	11 11 3	19°43'46	17°26	29♒54	18°10	1°39	25°25	15°14	5°R14	10°12	17°25	21°R38	20°26	10°42	n.a.	S 13
S 14	11 14 59	20°42'26	1♌ 7	29°D52	19°23	2°18	25°39	15°10	5°14	10°14	17°26	21°37	20°22	10°49	n.a.	S 14
M15	11 18 56	21°41'05	15°18	29°55	20°35	2°58	25°54	15° 7	5°14	10°17	17°27	21°35	20°19	10°56	n.a.	M15
T 16	11 22 52	22°39'41	29°55	0♓ 4	21°47	3°37	26° 8	15° 4	5°14	10°19	17°28	21°30	20°16	11° 2	n.a.	T 16
W17	11 26 49	23°38'14	14♍55	0°17	23° 0	4°17	26°22	15° 0	5°14	10°21	17°30	21°24	20°13	11° 9	n.a.	W17
T 18	11 30 45	24°36'46	0♎ 9	0°35	24°12	4°56	26°37	14°57	5°14	10°23	17°31	21°15	20°10	11°16	n.a.	T 18
F 19	11 34 42	25°35'16	15°26	0°58	25°25	5°36	26°51	14°54	5°13	10°25	17°32	21° 5	20° 7	11°23	n.a.	F 19
S 20	11 38 39	26°33'44	0♏35	1°25	26°37	6°15	27° 5	14°51	5°13	10°28	17°33	20°56	20° 3	11°29	n.a.	S 20
S 21	11 42 35	27°32'10	15°27	1°57	27°50	6°55	27°20	14°48	5°13	10°30	17°35	20°49	20° 0	11°36	n.a.	S 21
M22	11 46 32	28°30'34	29°54	2°32	29° 2	7°34	27°34	14°46	5°12	10°32	17°36	20°43	19°57	11°43	n.a.	M22
T 23	11 50 28	29°28'57	13♐54	3°12	0♓15	8°14	27°48	14°43	5°12	10°34	17°37	20°40	19°54	11°50	n.a.	T 23
W24	11 54 25	0♈27'18	27°26	3°55	1°28	8°53	28° 3	14°40	5°11	10°36	17°39	20°D39	19°51	11°56	n.a.	W24
T 25	11 58 21	1°25'38	10♉34	4°42	2°40	9°32	28°17	14°38	5°11	10°39	17°40	20°39	19°47	12° 3	n.a.	T 25
F 26	12 2 18	2°23'56	23°20	5°32	3°53	10°12	28°31	14°35	5°10	10°41	17°41	20°R40	19°44	12°10	n.a.	F 26
S 27	12 6 14	3°22'12	5♒49	6°25	5° 5	10°51	28°46	14°33	5° 9	10°43	17°42	20°39	19°41	12°16	n.a.	S 27
S 28	12 10 11	4°20'27	18° 5	7°22	6°18	11°30	29° 0	14°31	5° 8	10°45	17°44	20°36	19°38	12°23	n.a.	S 28
M29	12 14 8	5°18'39	0♓11	8°21	7°31	12°10	29°14	14°29	5° 8	10°47	17°45	20°30	19°35	12°30	n.a.	M29
T 30	12 18 4	6°16'51	12°11	9°24	8°43	12°49	29°29	14°27	5° 7	10°49	17°46	20°21	19°32	12°37	n.a.	T 30
W31	12 22 1	7♈15'00	24♓ 6	10♓29	9♓56	13♉28	29♓43	14♌25	5♐ 6	10♓51	17♈48	20♉10	19♉28	12♈43	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	8s41	12s21	2n27	6s12	3n15	20s 2	0s30	9n41	0n25	4s 4	1s11	18n 4	1n57	21s23	0n 1	9s22	1s29	7s21	15s21	21s47	22s 2	8n22			n.a.
T 2	8 19	7 21	3 20	6 40	3 5	19 47	0 33	9 57	0 26	3 58	1 11	18 6	1 57	21 23	0 1	9 21	1 29	7 20	15 21	21 48	22 3	8 25			n.a.
W 3	7 56	2 9	4 5	7 9	2 54	19 32	0 36	10 12	0 27	3 53	1 11	18 7	1 57	21 24	0 1	9 20	1 29	7 19	15 20	21 49	22 3	8 28			n.a.
T 4	7 34	3n 5	4 37	7 38	2 42	19 16	0 39	10 28	0 27	3 47	1 11	18 8	1 57	21 24	0 1	9 20	1 29	7 19	15 20	21 51	22 4	8 31			n.a.
F 5	7 11	8 11	4 58	8 7	2 28	19 0	0 41	10 43	0 28	3 41	1 11	18 9	1 57	21 24	0 1	9 19	1 29	7 18	15 20	21 52	22 4	8 34			n.a.
S 6	6 48	12 57	5 6	8 35	2 14	18 43	0 44	10 58	0 28	3 35	1 11	18 11	1 57	21 24	0 1	9 18	1 29	7 18	15 20	21 54	22 5	8 36			n.a.
S 7	6 25	17 15	5 1	9 3	1 59	18 26	0 47	11 13	0 29	3 30	1 11	18 12	1 57	21 24	0 1	9 17	1 29	7 17	15 20	21 55	22 5	8 39			n.a.
M 8	6 2	20 54	4 42	9 29	1 43	18 8	0 49	11 28	0 30	3 24	1 11	18 13	1 57	21 24	0 1	9 16	1 29	7 16	15 19	21 56	22 6	8 42			n.a.
T 9	5 39	23 42	4 11	9 54	1 28	17 50	0 52	11 43	0 30	3 18	1 11	18 14	1 56	21 24	0 1	9 15	1 29	7 16	15 19	21 57	22 6	8 45			n.a.
W10	5 16	25 28	3 28	10 17	1 12	17 31	0 54	11 57	0 31	3 12	1 11	18 15	1 56	21 24	0 1	9 14	1 29	7 15	15 19	21 57	22 7	8 48			n.a.
T 11	4 53	26 0	2 35	10 38	0 56	17 11	0 56	12 12	0 31	3 7	1 10	18 16	1 56	21 24	0 1	9 14	1 29	7 15	15 19	21 57	22 7	8 51			n.a.
F 12	4 30	25 10	1 32	10 57	0 41	16 52	0 59	12 27	0 32	3 1	1 10	18 17	1 56	21 24	0 1	9 13	1 29	7 14	15 19	21 57	22 8	8 53			n.a.
S 13	4 7	22 56	0 22	11 14	0 25	16 31	1 1	12 41	0 32	2 55	1 10	18 18	1 56	21 24	0 1	9 12	1 29	7 13	15 19	21 57	22 8	8 56			n.a.
S 14	3 43	19 19	0s51	11 29	0 11	16 11	1 3	12 55	0 33	2 49	1 10	18 19	1 56	21 24	0 1	9 11	1 29	7 13	15 18	21 57	22 9	8 59			n.a.
M15	3 20	14 28	2 3	11 41	0s 4	15 49	1 5	13 10	0 34	2 43	1 10	18 20	1 56	21 24	0 1	9 10	1 29	7 12	15 18	21 57	22 9	9 2			n.a.
T 16	2 57	8 40	3 9	11 51	0 18	15 28	1 7	13 24	0 34	2 38	1 10	18 21	1 56	21 24	0 1	9 9	1 29	7 11	15 18	21 58	22 10	9 5			n.a.
W17	2 33	2 15	4 4	11 59	0 31	15 6	1 9	13 38	0 35	2 32	1 10	18 22	1 56	21 24	0 1	9 8	1 29	7 11	15 18	21 59	22 10	9 7			n.a.
T 18	2 10	4s23	4 43	12 5	0 44	14 43	1 11	13 52	0 35	2 26	1 10	18 23	1 56	21 24	0 1	9 8	1 29	7 10	15 18	22 1	22 11	9 10			n.a.
F 19	1 46	10 46	5 2	12 8	0 57	14 20	1 13	14 6	0 36	2 20	1 10	18 24	1 56	21 24	0 1	9 7	1 29	7 10	15 18	22 2	22 11	9 13			n.a.
S 20	1 23	16 28	4 59	12 9	1 8	13 57	1 15	14 19	0 36	2 15	1 10	18 24	1 56	21 24	0 1	9 6	1 29	7 9	15 17	22 4	22 12	9 16			n.a.
S 21	0 59	21 2	4 36	12 8	1 19	13 33	1 17	14 33	0 37	2 9	1 10	18 25	1 56	21 24	0 1	9 5	1 29	7 8	15 17	22 5	22 12	9 19			n.a.
M22	0 36	24 11	3 56	12 5	1 30	13 9	1 18	14 47	0 37	2 3	1 10	18 26	1 56	21 24	0 1	9 4	1 29	7 8	15 17	22 6	22 12	9 21			n.a.
T 23	0 12	25 44	3 2	11 59	1 39	12 45	1 20	15 0	0 38	1 57	1 10	18 27	1 56	21 24	0 1	9 4	1 29	7 7	15 17	22 6	22 13	9 24			n.a.
W24	0n11	25 41	2 0	11 52	1 48	12 20	1 21	15 13	0 38	1 51	1 10	18 27	1 56	21 24	0 1	9 3	1 29	7 7	15 17	22 6	22 13	9 27			n.a.
T 25	0 34	24 10	0 53	11 42	1 57	11 55	1 23	15 26	0 39	1 46	1 10	18 28	1 55	21 24	0 1	9 2	1 29	7 6	15 17	22 6	22 14	9 30			n.a.
F 26	0 58	21 26	0n14	11 31	2 4	11 30	1 24	15 40	0 39	1 40	1 10	18 29	1 55	21 23	0 1	9 1	1 29	7 5	15 17	22 6	22 14	9 33			n.a.
S 27	1 21	17 45	1 20	11 17	2 11	11 4	1 25	15 52	0 40	1 34	1 10	18 29	1 55	21 23	0 1	9 0	1 29	7 5	15 17	22 6	22 15	9 35			n.a.
S 28	1 45	13 22	2 20	11 2	2 18	10 38	1 27	16 5	0 40	1 28	1 10	18 30	1 55	21 23	0 1	9 0	1 29	7 4	15 17	22 7	22 15	9 38			n.a.
M29	2 8	8 31	3 13	10 44	2 23	10 12	1 28	16 18	0 41	1 23	1 10	18 30	1 55	21 23	0 1	8 59	1 29	7 4	15 16	22 8	22 16	9 41			n.a.
T 30	2 31	3 25	3 57	10 25	2 28	9 46	1 29	16 31	0 41	1 17	1 10	18 31	1 55	21 23	0 1	8 58	1 29	7 3	15 16	22 9	22 16	9 44			n.a.
W31	2n55	1n45	4n30	10s 4	2s33	9s19	1s30	16n43	0n41	1s11	1s10	18n31	1n55	21s23	0n 1	8s57	1s29	7s 3	15s16	22s11	22s17	9n46			n.a.

Julian Day Number = 1680209.5, Delta T = 03h15m53s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'25, Lahiri = - 5°30'24 Julian Calendar 1 March 113 BCE == Greg. Calendar 27 Feb. 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

APRIL 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 25 57	8♈13'08	5♈59	11♓37	11♓ 9	14♉ 7	29♓57	14°R23	5°R 5	10♓53	17♈49	19°R57	19♑25	12♈50	n.a.	T 1
F 2	12 29 54	9°11'13	17°51	12°47	12°21	14°46	0♈12	14♌21	5♐ 4	10°55	17°50	19♑43	19°22	12°57	n.a.	F 2
S 3	12 33 50	10° 9'18	29°43	14° 0	13°34	15°26	0°26	14°19	5° 3	10°57	17°52	19°29	19°19	13° 3	n.a.	S 3
S 4	12 37 47	11° 7'20	11♉38	15°15	14°47	16° 5	0°40	14°18	5° 2	10°59	17°53	19°17	19°16	13°10	n.a.	S 4
M 5	12 41 43	12° 5'20	23°36	16°33	16° 0	16°44	0°54	14°16	5° 1	11° 1	17°55	19° 7	19°13	13°17	n.a.	M 5
T 6	12 45 40	13° 3'19	5♊40	17°53	17°12	17°23	1° 8	14°15	5° 0	11° 3	17°56	19° 0	19° 9	13°24	n.a.	T 6
W 7	12 49 37	14° 1'16	17°55	19°15	18°25	18° 2	1°23	14°14	4°59	11° 5	17°57	18°55	19° 6	13°30	n.a.	W 7
T 8	12 53 33	14°59'11	0♋23	20°39	19°38	18°41	1°37	14°12	4°57	11° 7	17°59	18°53	19° 3	13°37	n.a.	T 8
F 9	12 57 30	15°57'04	13° 8	22° 6	20°50	19°20	1°51	14°11	4°56	11° 9	18° 0	18°53	19° 0	13°44	n.a.	F 9
S 10	13 1 26	16°54'55	26°16	23°35	22° 3	19°59	2° 5	14°10	4°55	11°11	18° 1	18°53	18°57	13°51	n.a.	S 10
S 11	13 5 23	17°52'44	9♌50	25° 5	23°16	20°38	2°19	14°10	4°53	11°13	18° 3	18°52	18°53	13°57	n.a.	S 11
M12	13 9 19	18°50'31	23°51	26°38	24°29	21°17	2°33	14° 9	4°52	11°15	18° 4	18°49	18°50	14° 4	n.a.	M12
T 13	13 13 16	19°48'17	8♍21	28°13	25°41	21°56	2°47	14° 8	4°50	11°17	18° 5	18°44	18°47	14°11	n.a.	T 13
W14	13 17 12	20°46'00	23°16	29°50	26°54	22°35	3° 1	14° 8	4°49	11°19	18° 7	18°36	18°44	14°17	n.a.	W14
T 15	13 21 9	21°43'42	8♎28	1♈30	28° 7	23°14	3°15	14° 7	4°47	11°21	18° 8	18°27	18°41	14°24	n.a.	T 15
F 16	13 25 5	22°41'23	23°49	3°11	29°20	23°53	3°29	14° 7	4°46	11°22	18° 9	18°16	18°38	14°31	n.a.	F 16
S 17	13 29 2	23°39'02	9♏ 5	4°54	0♈33	24°31	3°43	14° 6	4°44	11°24	18°11	18° 5	18°34	14°38	n.a.	S 17
S 18	13 32 59	24°36'40	24° 6	6°40	1°45	25°10	3°57	14° 6	4°43	11°26	18°12	17°56	18°31	14°44	n.a.	S 18
M19	13 36 55	25°34'16	8♐44	8°27	2°58	25°49	4°11	14°D 6	4°41	11°28	18°14	17°50	18°28	14°51	n.a.	M19
T 20	13 40 52	26°31'52	22°54	10°17	4°11	26°28	4°24	14° 6	4°39	11°30	18°15	17°46	18°25	14°58	n.a.	T 20
W21	13 44 48	27°29'27	6♑34	12° 8	5°24	27° 7	4°38	14° 6	4°37	11°31	18°16	17°44	18°22	15° 5	n.a.	W21
T 22	13 48 45	28°27'00	19°46	14° 2	6°37	27°45	4°52	14° 7	4°36	11°33	18°18	17°D44	18°19	15°11	n.a.	T 22
F 23	13 52 41	29°24'32	2♒34	15°57	7°50	28°24	5° 6	14° 7	4°34	11°35	18°19	17°R44	18°15	15°18	n.a.	F 23
S 24	13 56 38	0♉22'04	15° 1	17°55	9° 3	29° 3	5°19	14° 8	4°32	11°36	18°20	17°43	18°12	15°25	n.a.	S 24
S 25	14 0 35	1°19'34	27°14	19°55	10°16	29°42	5°33	14° 8	4°30	11°38	18°22	17°40	18° 9	15°31	n.a.	S 25
M26	14 4 31	2°17'03	9♓15	21°56	11°28	0♊20	5°46	14° 9	4°28	11°40	18°23	17°35	18° 6	15°38	n.a.	M26
T 27	14 8 28	3°14'32	21°11	24° 0	12°41	0°59	6° 0	14°10	4°26	11°41	18°24	17°28	18° 3	15°45	n.a.	T 27
W28	14 12 24	4°11'59	3♈ 2	26° 5	13°54	1°38	6°13	14°10	4°24	11°43	18°26	17°17	17°59	15°52	n.a.	W28
T 29	14 16 21	5° 9'26	14°54	28°11	15° 7	2°16	6°27	14°11	4°22	11°44	18°27	17° 5	17°56	15°58	n.a.	T 29
F 30	14 20 17	6♉ 6'51	26♈46	0♉19	16♈20	2♊55	6♈40	14♌12	4♐20	11♓46	18♈28	16♑52	17♑53	16♈ 5	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n18	6n51	4n51	9s42	2s37	8s52	1s31	16n55	0n42	1s 5	1s10	18n32	1n55	21s23	0n 1	8s56	1s29	7s 2	15s16	22s12	22s17	9n49		n.a.
F 2	3 41	11 41	5 0	9 17	2 40	8 24	1 32	17 8	0 42	1 0	1 10	18 32	1 55	21 22	0 1	8 56	1 29	7 1	15 16	22 15	22 18	9 52		n.a.
S 3	4 4	16 5	4 55	8 51	2 42	7 57	1 32	17 20	0 43	0 54	1 10	18 33	1 55	21 22	0 1	8 55	1 29	7 1	15 16	22 17	22 18	9 55		n.a.
S 4	4 27	19 53	4 38	8 23	2 44	7 29	1 33	17 32	0 43	0 48	1 10	18 33	1 55	21 22	0 1	8 54	1 29	7 0	15 16	22 18	22 19	9 57		n.a.
M 5	4 50	22 53	4 8	7 54	2 45	7 1	1 34	17 43	0 44	0 42	1 10	18 33	1 54	21 22	0 1	8 53	1 30	7 0	15 16	22 20	22 19	10 0		n.a.
T 6	5 13	24 53	3 27	7 23	2 46	6 33	1 34	17 55	0 44	0 37	1 10	18 34	1 54	21 22	0 1	8 53	1 30	6 59	15 16	22 21	22 19	10 3		n.a.
W 7	5 35	25 44	2 36	6 51	2 46	6 5	1 35	18 6	0 45	0 31	1 10	18 34	1 54	21 21	0 1	8 52	1 30	6 59	15 16	22 21	22 20	10 6		n.a.
T 8	5 58	25 19	1 36	6 16	2 46	5 36	1 35	18 18	0 45	0 25	1 10	18 34	1 54	21 21	0 1	8 51	1 30	6 58	15 16	22 22	22 20	10 8		n.a.
F 9	6 21	23 33	0 30	5 41	2 44	5 8	1 35	18 29	0 45	0 20	1 10	18 34	1 54	21 21	0 1	8 50	1 30	6 58	15 16	22 22	22 21	10 11		n.a.
S 10	6 43	20 30	0s39	5 4	2 43	4 39	1 36	18 40	0 46	0 14	1 10	18 35	1 54	21 21	0 1	8 50	1 30	6 57	15 16	22 22	22 21	10 14		n.a.
S 11	7 5	16 15	1 48	4 25	2 40	4 10	1 36	18 51	0 46	0 8	1 10	18 35	1 54	21 21	0 1	8 49	1 30	6 56	15 16	22 22	22 22	10 17		n.a.
M12	7 28	11 0	2 53	3 45	2 38	3 41	1 36	19 2	0 47	0 3	1 10	18 35	1 54	21 20	0 1	8 48	1 30	6 56	15 16	22 22	22 22	10 19		n.a.
T 13	7 50	4 59	3 49	3 4	2 34	3 12	1 36	19 13	0 47	0n 3	1 10	18 35	1 53	21 20	0 1	8 48	1 30	6 55	15 16	22 23	22 23	10 22		n.a.
W14	8 12	1s27	4 32	2 21	2 30	2 43	1 36	19 23	0 47	0 8	1 10	18 35	1 53	21 20	0 1	8 47	1 30	6 55	15 16	22 24	22 23	10 25		n.a.
T 15	8 34	7 55	4 56	1 37	2 25	2 13	1 36	19 34	0 48	0 14	1 10	18 35	1 53	21 19	0 1	8 46	1 30	6 54	15 16	22 25	22 23	10 27		n.a.
F 16	8 55	13 57	4 59	0 52	2 20	1 44	1 36	19 44	0 48	0 19	1 10	18 35	1 53	21 19	0 1	8 46	1 30	6 54	15 16	22 27	22 24	10 30		n.a.
S 17	9 17	19 6	4 41	0 5	2 15	1 14	1 36	19 54	0 49	0 25	1 10	18 35	1 53	21 19	0 1	8 45	1 30	6 53	15 16	22 28	22 24	10 33		n.a.
S 18	9 38	22 56	4 3	0n43	2 8	0 45	1 35	20 4	0 49	0 31	1 11	18 35	1 53	21 19	0 1	8 44	1 30	6 53	15 16	22 30	22 25	10 36		n.a.
M19	10 0	25 8	3 10	1 32	2 2	0 15	1 35	20 14	0 49	0 36	1 11	18 35	1 53	21 18	0 1	8 44	1 30	6 52	15 16	22 30	22 25	10 38		n.a.
T 20	10 21	25 38	2 7	2 22	1 55	0n14	1 34	20 23	0 50	0 42	1 11	18 35	1 53	21 18	0 1	8 43	1 30	6 52	15 16	22 31	22 26	10 41		n.a.
W21	10 42	24 31	0 59	3 13	1 47	0 44	1 34	20 33	0 50	0 47	1 11	18 34	1 53	21 18	0 1	8 42	1 30	6 51	15 16	22 31	22 26	10 44		n.a.
T 22	11 3	22 3	0n11	4 5	1 39	1 14	1 33	20 42	0 50	0 52	1 11	18 34	1 52	21 17	0 1	8 42	1 30	6 51	15 16	22 31	22 27	10 46		n.a.
F 23	11 23	18 33	1 18	4 58	1 30	1 43	1 33	20 51	0 51	0 58	1 11	18 34	1 52	21 17	0 1	8 41	1 30	6 50	15 16	22 31	22 27	10 49		n.a.
S 24	11 44	14 18	2 19	5 51	1 21	2 13	1 32	21 0	0 51	1 3	1 11	18 34	1 52	21 17	0 0	8 41	1 30	6 50	15 16	22 31	22 27	10 52		n.a.
S 25	12 4	9 33	3 13	6 46	1 12	2 43	1 31	21 9	0 52	1 9	1 11	18 33	1 52	21 16	0 0	8 40	1 30	6 50	15 16	22 32	22 28	10 54		n.a.
M26	12 24	4 32	3 57	7 41	1 2	3 12	1 30	21 18	0 52	1 14	1 11	18 33	1 52	21 16	0 0	8 40	1 30	6 49	15 16	22 32	22 28	10 57		n.a.
T 27	12 44	0n36	4 30	8 36	0 52	3 42	1 30	21 26	0 52	1 19	1 11	18 33	1 52	21 16	0 0	8 39	1 30	6 49	15 16	22 33	22 29	11 0		n.a.
W28	13 4	5 40	4 52	9 32	0 42	4 11	1 29	21 35	0 53	1 25	1 11	18 32	1 52	21 15	0 0	8 38	1 30	6 48	15 16	22 35	22 29	11 2		n.a.
T 29	13 23	10 32	5 1	10 27	0 32	4 41	1 28	21 43	0 53	1 30	1 11	18 32	1 51	21 15	0 0	8 38	1 30	6 48	15 16	22 36	22 30	11 5		n.a.
F 30	13n43	15n 2	4n57	11n23	0s21	5n10	1s26	21n51	0n53	1n35	1s11	18n32	1n51	21s15	0n 0	8s37	1s31	6s47	15s16	22s38	22s30	11n 8		n.a.

Julian Day Number = 1680240.5, Delta T = 03h15m52s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'21, Lahiri = - 5°30'20 Julian Calendar 1 Apr. 113 BCE == Greg. Calendar 29 March 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

MAY 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 24 14	7♉ 4'16	8♉42	2♉28	17♈33	3♊34	6♈53	14♌14	4°R18	11♓47	18♈30	16°R40	17♏50	16♈12	n.a.	S 1
S 2	14 28 10	8° 1'39	20°42	4°38	18°46	4°12	7° 7	14°15	4♐16	11°49	18°31	16♏28	17°47	16°18	n.a.	S 2
M 3	14 32 7	8°59'02	2♊48	6°49	19°59	4°51	7°20	14°16	4°14	11°50	18°32	16°19	17°44	16°25	n.a.	M 3
T 4	14 36 4	9°56'23	15° 1	9° 1	21°12	5°29	7°33	14°18	4°12	11°51	18°33	16°12	17°40	16°32	n.a.	T 4
W 5	14 40 0	10°53'43	27°24	11°13	22°25	6° 8	7°46	14°19	4°10	11°53	18°35	16° 8	17°37	16°39	n.a.	W 5
T 6	14 43 57	11°51'03	9♋58	13°24	23°38	6°46	7°59	14°21	4° 8	11°54	18°36	16° 7	17°34	16°45	n.a.	T 6
F 7	14 47 53	12°48'21	22°48	15°36	24°51	7°25	8°12	14°23	4° 5	11°56	18°37	16°D 7	17°31	16°52	n.a.	F 7
S 8	14 51 50	13°45'38	5♌56	17°47	26° 4	8° 4	8°25	14°25	4° 3	11°57	18°38	16° 7	17°28	16°59	n.a.	S 8
S 9	14 55 46	14°42'54	19°26	19°57	27°17	8°42	8°38	14°27	4° 1	11°58	18°40	16°R 8	17°24	17° 6	n.a.	S 9
M10	14 59 43	15°40'09	3♍19	22° 6	28°30	9°21	8°51	14°29	3°59	11°59	18°41	16° 6	17°21	17°12	n.a.	M10
T 11	15 3 39	16°37'22	17°37	24°14	29°44	9°59	9° 4	14°31	3°56	12° 1	18°42	16° 3	17°18	17°19	n.a.	T 11
W12	15 7 36	17°34'35	2♎17	26°21	0♉57	10°37	9°16	14°33	3°54	12° 2	18°43	15°57	17°15	17°26	n.a.	W12
T 13	15 11 33	18°31'47	17°14	28°25	2°10	11°16	9°29	14°36	3°52	12° 3	18°45	15°50	17°12	17°32	n.a.	T 13
F 14	15 15 29	19°28'58	2♏21	0♊28	3°23	11°54	9°41	14°38	3°49	12° 4	18°46	15°42	17° 9	17°39	n.a.	F 14
S 15	15 19 26	20°26'08	17°28	2°30	4°36	12°33	9°54	14°41	3°47	12° 5	18°47	15°34	17° 5	17°46	n.a.	S 15
S 16	15 23 22	21°23'18	2♐24	4°29	5°49	13°11	10° 6	14°43	3°45	12° 6	18°48	15°27	17° 2	17°53	n.a.	S 16
M17	15 27 19	22°20'28	17° 1	6°26	7° 2	13°50	10°19	14°46	3°42	12° 7	18°49	15°22	16°59	17°59	n.a.	M17
T 18	15 31 15	23°17'37	1♑14	8°21	8°15	14°28	10°31	14°49	3°40	12° 8	18°51	15°19	16°56	18° 6	n.a.	T 18
W19	15 35 12	24°14'45	14°59	10°13	9°29	15° 6	10°43	14°52	3°38	12° 9	18°52	15°D18	16°53	18°13	n.a.	W19
T 20	15 39 8	25°11'54	28°16	12° 4	10°42	15°45	10°55	14°55	3°35	12°10	18°53	15°19	16°50	18°20	n.a.	T 20
F 21	15 43 5	26° 9'02	11♒ 8	13°52	11°55	16°23	11° 8	14°58	3°33	12°11	18°54	15°20	16°46	18°26	n.a.	F 21
S 22	15 47 2	27° 6'10	23°39	15°38	13° 8	17° 1	11°20	15° 1	3°30	12°12	18°55	15°R21	16°43	18°33	n.a.	S 22
S 23	15 50 58	28° 3'18	5♓53	17°21	14°21	17°40	11°31	15° 4	3°28	12°13	18°56	15°20	16°40	18°40	n.a.	S 23
M24	15 54 55	29° 0'26	17°56	19° 2	15°35	18°18	11°43	15° 8	3°25	12°14	18°57	15°18	16°37	18°46	n.a.	M24
T 25	15 58 51	29°57'34	29°51	20°41	16°48	18°56	11°55	15°11	3°23	12°15	18°58	15°14	16°34	18°53	n.a.	T 25
W26	16 2 48	0♊54'42	11♈42	22°18	18° 1	19°35	12° 7	15°15	3°21	12°15	18°59	15° 9	16°30	19° 0	n.a.	W26
T 27	16 6 44	1°51'50	23°34	23°52	19°15	20°13	12°18	15°18	3°18	12°16	19° 0	15° 2	16°27	19° 7	n.a.	T 27
F 28	16 10 41	2°48'58	5♉30	25°24	20°28	20°51	12°30	15°22	3°16	12°17	19° 1	14°54	16°24	19°13	n.a.	F 28
S 29	16 14 37	3°46'06	17°31	26°53	21°41	21°29	12°41	15°26	3°13	12°17	19° 2	14°47	16°21	19°20	n.a.	S 29
S 30	16 18 34	4°43'13	29°40	28°20	22°55	22° 8	12°53	15°30	3°11	12°18	19° 4	14°40	16°18	19°27	n.a.	S 30
M31	16 22 31	5♊40'21	11♊57	29♊45	24♉ 8	22♊46	13♈ 4	15♌34	3♐ 8	12♓19	19♈ 5	14♏34	16♏15	19♈34	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	14n 2	18n58	4n39	12n18	0s10	5n39	1s25	21n59	0n54	1n41	1s11	18n31	1n51	21s14	0n 0	8s37	1s31	6s47	15s16	22s39	22s30	11n10		n.a.
S 2	14 21	22 8	4 10	13 13	0n 0	6 8	1 24	22 6	0 54	1 46	1 11	18 31	1 51	21 14	0 0	8 36	1 31	6 47	15 16	22 41	22 31	11 13		n.a.
M 3	14 39	24 22	3 29	14 7	0 11	6 37	1 23	22 14	0 54	1 51	1 11	18 30	1 51	21 13	0 0	8 36	1 31	6 46	15 16	22 42	22 31	11 16		n.a.
T 4	14 58	25 28	2 37	15 0	0 21	7 6	1 22	22 21	0 54	1 56	1 11	18 29	1 51	21 13	0 0	8 35	1 31	6 46	15 16	22 43	22 32	11 18		n.a.
W 5	15 16	25 19	1 38	15 52	0 32	7 35	1 20	22 28	0 55	2 1	1 12	18 29	1 51	21 13	0 0	8 35	1 31	6 45	15 17	22 43	22 32	11 21		n.a.
T 6	15 34	23 52	0 33	16 42	0 42	8 4	1 19	22 35	0 55	2 7	1 12	18 28	1 51	21 12	0 0	8 34	1 31	6 45	15 17	22 43	22 32	11 24		n.a.
F 7	15 51	21 10	0s36	17 31	0 51	8 32	1 17	22 42	0 55	2 12	1 12	18 28	1 50	21 12	0 0	8 34	1 31	6 45	15 17	22 43	22 33	11 26		n.a.
S 8	16 9	17 19	1 44	18 17	1 0	9 0	1 16	22 49	0 56	2 17	1 12	18 27	1 50	21 11	0 0	8 33	1 31	6 44	15 17	22 43	22 33	11 29		n.a.
S 9	16 26	12 30	2 48	19 2	1 9	9 28	1 14	22 55	0 56	2 22	1 12	18 26	1 50	21 11	0 0	8 33	1 31	6 44	15 17	22 43	22 34	11 32		n.a.
M10	16 43	6 55	3 44	19 45	1 17	9 56	1 13	23 2	0 56	2 27	1 12	18 26	1 50	21 11	0 0	8 32	1 31	6 44	15 17	22 44	22 34	11 34		n.a.
T 11	17 0	0 50	4 28	20 25	1 25	10 24	1 11	23 8	0 57	2 32	1 12	18 25	1 50	21 10	0 0	8 32	1 31	6 43	15 17	22 44	22 35	11 37		n.a.
W12	17 16	5s26	4 56	21 3	1 32	10 51	1 9	23 14	0 57	2 37	1 12	18 24	1 50	21 10	0 0	8 32	1 31	6 43	15 17	22 45	22 35	11 39		n.a.
T 13	17 32	11 31	5 5	21 38	1 39	11 18	1 7	23 20	0 57	2 42	1 12	18 23	1 50	21 9	0 0	8 31	1 31	6 43	15 17	22 46	22 35	11 42		n.a.
F 14	17 48	16 59	4 52	22 11	1 44	11 45	1 6	23 25	0 57	2 47	1 12	18 22	1 50	21 9	0 0	8 31	1 31	6 42	15 18	22 46	22 36	11 45		n.a.
S 15	18 3	21 22	4 19	22 41	1 49	12 12	1 4	23 31	0 58	2 51	1 12	18 21	1 49	21 8	0 0	8 30	1 31	6 42	15 18	22 47	22 36	11 47		n.a.
S 16	18 19	24 17	3 29	23 8	1 54	12 38	1 2	23 36	0 58	2 56	1 13	18 20	1 49	21 8	0 0	8 30	1 31	6 42	15 18	22 48	22 37	11 50		n.a.
M17	18 34	25 29	2 26	23 33	1 57	13 4	1 0	23 41	0 58	3 1	1 13	18 20	1 49	21 8	0 0	8 30	1 31	6 41	15 18	22 49	22 37	11 53		n.a.
T 18	18 48	24 57	1 15	23 55	2 0	13 30	0 58	23 46	0 59	3 6	1 13	18 19	1 49	21 7	0 0	8 29	1 31	6 41	15 18	22 49	22 37	11 55		n.a.
W19	19 3	22 53	0 2	24 15	2 2	13 56	0 56	23 50	0 59	3 11	1 13	18 18	1 49	21 7	0 0	8 29	1 32	6 41	15 18	22 49	22 38	11 58		n.a.
T 20	19 17	19 37	1n 9	24 32	2 4	14 21	0 54	23 55	0 59	3 15	1 13	18 17	1 49	21 6	0 0	8 29	1 32	6 40	15 18	22 49	22 38	12 0		n.a.
F 21	19 30	15 28	2 15	24 47	2 5	14 46	0 52	23 59	0 59	3 20	1 13	18 16	1 49	21 6	0 0	8 28	1 32	6 40	15 19	22 49	22 39	12 3		n.a.
S 22	19 44	10 46	3 12	25 0	2 5	15 10	0 50	24 3	1 0	3 25	1 13	18 14	1 49	21 5	0 0	8 28	1 32	6 40	15 19	22 49	22 39	12 5		n.a.
S 23	19 57	5 46	3 58	25 10	2 4	15 34	0 48	24 7	1 0	3 29	1 13	18 13	1 49	21 5	0 0	8 28	1 32	6 40	15 19	22 49	22 39	12 8		n.a.
M24	20 10	0 38	4 34	25 18	2 3	15 58	0 46	24 11	1 0	3 34	1 13	18 12	1 48	21 4	0 0	8 28	1 32	6 39	15 19	22 49	22 40	12 11		n.a.
T 25	20 22	4n28	4 57	25 23	2 1	16 21	0 43	24 15	1 0	3 38	1 13	18 11	1 48	21 4	0 0	8 27	1 32	6 39	15 19	22 50	22 40	12 13		n.a.
W26	20 34	9 23	5 8	25 27	1 58	16 44	0 41	24 18	1 1	3 43	1 14	18 10	1 48	21 3	0 0	8 27	1 32	6 39	15 19	22 50	22 41	12 16		n.a.
T 27	20 46	13 58	5 5	25 29	1 55	17 7	0 39	24 21	1 1	3 47	1 14	18 9	1 48	21 3	0 0	8 27	1 32	6 39	15 20	22 51	22 41	12 18		n.a.
F 28	20 57	18 2	4 49	25 29	1 51	17 29	0 37	24 24	1 1	3 52	1 14	18 8	1 48	21 3	0 0	8 27	1 32	6 39	15 20	22 52	22 41	12 21		n.a.
S 29	21 9	21 24	4 20	25 27	1 47	17 50	0 34	24 27	1 1	3 56	1 14	18 6	1 48	21 2	0 0	8 26	1 32	6 38	15 20	22 53	22 42	12 24		n.a.
S 30	21 19	23 52	3 39	25 23	1 41	18 12	0 32	24 30	1 1	4 0	1 14	18 5	1 48	21 2	0 0	8 26	1 32	6 38	15 20	22 54	22 42	12 26		n.a.
M31	21n30	25n14	2n47	25n18	1n36	18n32	0s30	24n32	1n 2	4n 5	1s14	18n 4	1n48	21s 1	0n 0	8s26	1s32	6s38	15s20	22s54	22s43	12n29		n.a.

Julian Day Number = 1680270.5, Delta T = 03h15m51s
Ecliptic obliquity = 23°42'35, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'17, Lahiri = - 5°30'16 Julian Calendar 1 May 113 BCE == Greg. Calendar 28 Apr. 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

JUNE 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 26 27	6♊37'29	24♊24	1♋ 7	25♉21	23♊24	13♈15	15♌38	3°R 6	12♓19	19♈ 5	14°R31	16♑11	19♈40	n.a.	T 1
W 2	16 30 24	7°34'37	7♋ 2	2°27	26°35	24° 2	13°26	15°42	3♐ 4	12°20	19° 6	14♑29	16° 8	19°47	n.a.	W 2
T 3	16 34 20	8°31'44	19°52	3°44	27°48	24°41	13°37	15°46	3° 1	12°20	19° 7	14°D29	16° 5	19°54	n.a.	T 3
F 4	16 38 17	9°28'52	2♌55	4°58	29° 2	25°19	13°48	15°50	2°59	12°21	19° 8	14°30	16° 2	20° 0	n.a.	F 4
S 5	16 42 13	10°25'59	16°13	6°10	0♊15	25°57	13°59	15°55	2°56	12°21	19° 9	14°31	15°59	20° 7	n.a.	S 5
S 6	16 46 10	11°23'06	29°48	7°19	1°29	26°35	14° 9	15°59	2°54	12°22	19°10	14°33	15°56	20°14	n.a.	S 6
M 7	16 50 7	12°20'13	13♍39	8°26	2°42	27°14	14°20	16° 4	2°51	12°22	19°11	14°R33	15°52	20°21	n.a.	M 7
T 8	16 54 3	13°17'20	27°48	9°29	3°56	27°52	14°30	16° 8	2°49	12°22	19°12	14°32	15°49	20°27	n.a.	T 8
W 9	16 58 0	14°14'26	12♎13	10°29	5° 9	28°30	14°41	16°13	2°47	12°23	19°13	14°30	15°46	20°34	n.a.	W 9
T 10	17 1 56	15°11'33	26°49	11°27	6°23	29° 8	14°51	16°18	2°44	12°23	19°14	14°27	15°43	20°41	n.a.	T 10
F 11	17 5 53	16° 8'40	11♏33	12°21	7°36	29°46	15° 1	16°23	2°42	12°23	19°14	14°23	15°40	20°47	n.a.	F 11
S 12	17 9 49	17° 5'47	26°17	13°12	8°50	0♋25	15°11	16°27	2°40	12°23	19°15	14°20	15°36	20°54	n.a.	S 12
S 13	17 13 46	18° 2'54	10♐54	13°59	10° 3	1° 3	15°21	16°32	2°37	12°24	19°16	14°16	15°33	21° 1	n.a.	S 13
M14	17 17 42	19° 0'02	25°17	14°43	11°17	1°41	15°31	16°37	2°35	12°24	19°17	14°14	15°30	21° 8	n.a.	M14
T 15	17 21 39	19°57'10	9♑21	15°23	12°31	2°19	15°40	16°42	2°33	12°24	19°18	14°D13	15°27	21°14	n.a.	T 15
W16	17 25 36	20°54'19	23° 2	16° 0	13°44	2°57	15°50	16°48	2°30	12°24	19°18	14°13	15°24	21°21	n.a.	W16
T 17	17 29 32	21°51'28	6♒19	16°32	14°58	3°35	16° 0	16°53	2°28	12°24	19°19	14°14	15°21	21°28	n.a.	T 17
F 18	17 33 29	22°48'38	19°14	17° 0	16°12	4°14	16° 9	16°58	2°26	12°R24	19°20	14°16	15°17	21°35	n.a.	F 18
S 19	17 37 25	23°45'48	1♓48	17°24	17°25	4°52	16°18	17° 3	2°24	12°24	19°20	14°17	15°14	21°41	n.a.	S 19
S 20	17 41 22	24°43'00	14° 5	17°44	18°39	5°30	16°27	17° 9	2°21	12°24	19°21	14°18	15°11	21°48	n.a.	S 20
M21	17 45 18	25°40'12	26° 9	17°59	19°53	6° 8	16°36	17°14	2°19	12°24	19°22	14°R19	15° 8	21°55	n.a.	M21
T 22	17 49 15	26°37'25	8♈ 6	18° 9	21° 7	6°46	16°45	17°20	2°17	12°24	19°22	14°18	15° 5	22° 1	n.a.	T 22
W23	17 53 11	27°34'40	19°58	18°14	22°20	7°24	16°54	17°26	2°15	12°24	19°23	14°17	15° 2	22° 8	n.a.	W23
T 24	17 57 8	28°31'55	1♉52	18°R14	23°34	8° 2	17° 2	17°31	2°13	12°24	19°24	14°15	14°58	22°15	n.a.	T 24
F 25	18 1 5	29°29'11	13°51	18°10	24°48	8°41	17°11	17°37	2°11	12°23	19°24	14°13	14°55	22°22	n.a.	F 25
S 26	18 5 1	0♋26'28	25°57	18° 0	26° 2	9°19	17°19	17°43	2° 9	12°23	19°25	14°11	14°52	22°28	n.a.	S 26
S 27	18 8 58	1°23'47	8♊15	17°46	27°16	9°57	17°28	17°49	2° 7	12°23	19°25	14° 9	14°49	22°35	n.a.	S 27
M28	18 12 54	2°21'06	20°45	17°26	28°30	10°35	17°36	17°54	2° 5	12°23	19°26	14° 8	14°46	22°42	n.a.	M28
T 29	18 16 51	3°18'26	3♋28	17° 2	29°44	11°13	17°44	18° 0	2° 3	12°22	19°26	14° 7	14°42	22°49	n.a.	T 29
W30	18 20 47	4♋15'47	16♋26	16♋33	0♋58	11♋51	17♈51	18♌ 6	2♐ 1	12♓22	19♈27	14°D 7	14♑39	22♈55	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n40	25n22	1n47	25n12	1n29	18n52	0s27	24n34	1n 2	4n 9	1s14	18n 2	1n47	21s 1	0n 0	8s26	1s32	6s38	15s21	22s55	22s43	12n31		n.a.
W 2	21 49	24 12	0 40	25 4	1 22	19 12	0 25	24 36	1 2	4 13	1 15	18 1	1 47	21 0	0 0	8 26	1 32	6 38	15 21	22 55	22 43	12 34		n.a.
T 3	21 58	21 44	0s29	24 54	1 15	19 31	0 23	24 38	1 2	4 17	1 15	18 0	1 47	21 0	0 0	8 26	1 32	6 37	15 21	22 55	22 44	12 36		n.a.
F 4	22 7	18 7	1 39	24 44	1 7	19 50	0 20	24 40	1 3	4 21	1 15	17 58	1 47	20 59	0 0	8 25	1 32	6 37	15 21	22 55	22 44	12 39		n.a.
S 5	22 16	13 32	2 44	24 32	0 58	20 8	0 18	24 42	1 3	4 25	1 15	17 57	1 47	20 59	0 0	8 25	1 33	6 37	15 22	22 54	22 44	12 41		n.a.
S 6	22 24	8 12	3 42	24 19	0 49	20 26	0 16	24 43	1 3	4 29	1 15	17 55	1 47	20 58	0 0	8 25	1 33	6 37	15 22	22 54	22 45	12 44		n.a.
M 7	22 32	2 22	4 28	24 6	0 40	20 43	0 13	24 44	1 3	4 33	1 15	17 54	1 47	20 58	0 0	8 25	1 33	6 37	15 22	22 54	22 45	12 46		n.a.
T 8	22 39	3s41	4 59	23 51	0 30	21 0	0 11	24 45	1 3	4 37	1 15	17 52	1 47	20 57	0 0	8 25	1 33	6 37	15 22	22 54	22 46	12 49		n.a.
W 9	22 46	9 39	5 12	23 36	0 19	21 16	0 8	24 46	1 4	4 41	1 16	17 51	1 47	20 57	0 0	8 25	1 33	6 37	15 22	22 55	22 46	12 51		n.a.
T 10	22 53	15 11	5 5	23 20	0 8	21 31	0 6	24 46	1 4	4 45	1 16	17 49	1 47	20 57	0 0	8 25	1 33	6 37	15 23	22 55	22 46	12 54		n.a.
F 11	22 59	19 52	4 38	23 4	0s 4	21 46	0 4	24 46	1 4	4 49	1 16	17 48	1 47	20 56	0 0	8 25	1 33	6 37	15 23	22 55	22 47	12 56		n.a.
S 12	23 5	23 19	3 53	22 47	0 15	22 0	0 1	24 47	1 4	4 53	1 16	17 46	1 46	20 56	0 0	8 25	1 33	6 36	15 23	22 56	22 47	12 59		n.a.
S 13	23 10	25 11	2 53	22 30	0 28	22 14	0n 1	24 47	1 4	4 56	1 16	17 45	1 46	20 55	0 0	8 25	1 33	6 36	15 23	22 56	22 47	13 1		n.a.
M14	23 15	25 19	1 42	22 13	0 40	22 27	0 4	24 46	1 4	5 0	1 16	17 43	1 46	20 55	0s 0	8 25	1 33	6 36	15 24	22 56	22 48	13 4		n.a.
T 15	23 19	23 49	0 27	21 56	0 53	22 39	0 6	24 46	1 5	5 4	1 16	17 41	1 46	20 54	0 0	8 25	1 33	6 36	15 24	22 56	22 48	13 6		n.a.
W16	23 24	20 56	0n48	21 38	1 7	22 51	0 8	24 45	1 5	5 7	1 17	17 40	1 46	20 54	0 0	8 25	1 33	6 36	15 24	22 56	22 49	13 9		n.a.
T 17	23 27	16 59	1 59	21 21	1 20	23 2	0 11	24 45	1 5	5 11	1 17	17 38	1 46	20 53	0 0	8 25	1 33	6 36	15 24	22 56	22 49	13 11		n.a.
F 18	23 31	12 22	3 1	21 3	1 34	23 12	0 13	24 44	1 5	5 14	1 17	17 36	1 46	20 53	0 0	8 25	1 33	6 36	15 25	22 56	22 49	13 14		n.a.
S 19	23 34	7 20	3 53	20 46	1 48	23 22	0 16	24 42	1 5	5 18	1 17	17 35	1 46	20 53	0 0	8 25	1 33	6 36	15 25	22 56	22 50	13 16		n.a.
S 20	23 36	2 9	4 33	20 30	2 2	23 31	0 18	24 41	1 6	5 21	1 17	17 33	1 46	20 52	0 0	8 25	1 33	6 36	15 25	22 56	22 50	13 19		n.a.
M21	23 38	3n 2	5 0	20 14	2 16	23 39	0 20	24 40	1 6	5 24	1 17	17 31	1 46	20 52	0 0	8 25	1 33	6 36	15 25	22 56	22 50	13 21		n.a.
T 22	23 40	8 2	5 13	19 59	2 31	23 47	0 23	24 38	1 6	5 28	1 18	17 29	1 46	20 51	0 0	8 25	1 34	6 36	15 26	22 56	22 51	13 24		n.a.
W23	23 41	12 43	5 14	19 44	2 45	23 54	0 25	24 36	1 6	5 31	1 18	17 27	1 46	20 51	0 0	8 25	1 34	6 36	15 26	22 56	22 51	13 26		n.a.
T 24	23 42	16 57	5 1	19 30	2 59	24 0	0 27	24 34	1 6	5 34	1 18	17 26	1 45	20 50	0 0	8 25	1 34	6 36	15 26	22 56	22 51	13 29		n.a.
F 25	23 42	20 32	4 34	19 17	3 12	24 6	0 29	24 31	1 6	5 37	1 18	17 24	1 45	20 50	0 0	8 26	1 34	6 36	15 27	22 56	22 52	13 31		n.a.
S 26	23 43	23 16	3 56	19 6	3 25	24 10	0 31	24 29	1 6	5 40	1 18	17 22	1 45	20 50	0 0	8 26	1 34	6 36	15 27	22 57	22 52	13 34		n.a.
S 27	23 42	24 59	3 5	18 55	3 38	24 15	0 34	24 26	1 7	5 43	1 19	17 20	1 45	20 49	0 0	8 26	1 34	6 36	15 27	22 57	22 53	13 36		n.a.
M28	23 41	25 28	2 6	18 46	3 50	24 18	0 36	24 23	1 7	5 46	1 19	17 18	1 45	20 49	0 0	8 26	1 34	6 36	15 27	22 57	22 53	13 39		n.a.
T 29	23 40	24 38	0 59	18 38	4 1	24 20	0 38	24 20	1 7	5 49	1 19	17 16	1 45	20 48	0 0	8 26	1 34	6 37	15 28	22 57	22 53	13 41		n.a.
W30	23n38	22n28	0s13	18n31	4s11	24n22	0n40	24n17	1n 7	5n52	1s19	17n14	1n45	20s48	0s 0	8s26	1s34	6s37	15s28	22s57	22s54	13n43		n.a.

Julian Day Number = 1680301.5, Delta T = 03h15m50s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'12, Lahiri = - 5°30'12 Julian Calendar 1 June 113 BCE == Greg. Calendar 29 May 113 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

JULY 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 24 44	5♋13'09	29♋38	16°R 0	2♋12	12♋29	17♈59	18♌13	1°R59	12°R22	19♈27	14♉ 7	14♉36	23♈ 2	n.a.	T 1
F 2	18 28 41	6°10'32	13♌ 4	15♋23	3°26	13° 8	18° 7	18°19	1♐57	12♓21	19°28	14° 8	14°33	23° 9	n.a.	F 2
S 3	18 32 37	7° 7'55	26°42	14°43	4°40	13°46	18°14	18°25	1°55	12°21	19°28	14° 8	14°30	23°15	n.a.	S 3
S 4	18 36 34	8° 5'19	10♍32	14° 0	5°54	14°24	18°21	18°31	1°53	12°20	19°29	14° 9	14°27	23°22	n.a.	S 4
M 5	18 40 30	9° 2'44	24°32	13°15	7° 8	15° 2	18°28	18°37	1°51	12°20	19°29	14° 9	14°23	23°29	n.a.	M 5
T 6	18 44 27	10° 0'10	8♎40	12°29	8°22	15°40	18°35	18°44	1°50	12°19	19°29	14°R10	14°20	23°36	n.a.	T 6
W 7	18 48 23	10°57'37	22°55	11°42	9°36	16°18	18°42	18°50	1°48	12°19	19°30	14°10	14°17	23°42	n.a.	W 7
T 8	18 52 20	11°55'04	7♏14	10°56	10°50	16°57	18°49	18°56	1°46	12°18	19°30	14° 9	14°14	23°49	n.a.	T 8
F 9	18 56 16	12°52'33	21°34	10°11	12° 4	17°35	18°55	19° 3	1°45	12°17	19°30	14° 9	14°11	23°56	n.a.	F 9
S 10	19 0 13	13°50'02	5♐51	9°28	13°18	18°13	19° 1	19° 9	1°43	12°17	19°31	14°D 9	14° 8	24° 2	n.a.	S 10
S 11	19 4 10	14°47'33	20° 0	8°48	14°32	18°51	19° 7	19°16	1°42	12°16	19°31	14° 9	14° 4	24° 9	n.a.	S 11
M12	19 8 6	15°45'04	3♑59	8°11	15°46	19°29	19°13	19°22	1°40	12°15	19°31	14° 9	14° 1	24°16	n.a.	M12
T 13	19 12 3	16°42'37	17°43	7°40	17° 0	20° 7	19°19	19°29	1°39	12°15	19°31	14°R 9	13°58	24°23	n.a.	T 13
W14	19 15 59	17°40'11	1♒11	7°13	18°15	20°46	19°25	19°36	1°37	12°14	19°31	14° 9	13°55	24°29	n.a.	W14
T 15	19 19 56	18°37'47	14°20	6°52	19°29	21°24	19°30	19°42	1°36	12°13	19°32	14° 9	13°52	24°36	n.a.	T 15
F 16	19 23 52	19°35'24	27°10	6°38	20°43	22° 2	19°36	19°49	1°34	12°12	19°32	14° 8	13°48	24°43	n.a.	F 16
S 17	19 27 49	20°33'03	9♓43	6°30	21°57	22°40	19°41	19°56	1°33	12°11	19°32	14° 7	13°45	24°50	n.a.	S 17
S 18	19 31 45	21°30'43	22° 0	6°D30	23°12	23°18	19°46	20° 3	1°32	12°10	19°32	14° 7	13°42	24°56	n.a.	S 18
M19	19 35 42	22°28'24	4♈ 6	6°36	24°26	23°56	19°51	20°10	1°30	12° 9	19°32	14° 6	13°39	25° 3	n.a.	M19
T 20	19 39 39	23°26'08	16° 3	6°50	25°40	24°35	19°55	20°16	1°29	12° 8	19°32	14° 5	13°36	25°10	n.a.	T 20
W21	19 43 35	24°23'53	27°56	7°12	26°54	25°13	20° 0	20°23	1°28	12° 7	19°32	14°D 5	13°33	25°16	n.a.	W21
T 22	19 47 32	25°21'40	9♉51	7°41	28° 9	25°51	20° 4	20°30	1°27	12° 6	19°32	14° 6	13°29	25°23	n.a.	T 22
F 23	19 51 28	26°19'29	21°50	8°18	29°23	26°29	20° 8	20°37	1°26	12° 5	19°R32	14° 7	13°26	25°30	n.a.	F 23
S 24	19 55 25	27°17'20	3♊59	9° 2	0♌38	27° 7	20°12	20°44	1°25	12° 4	19°32	14° 8	13°23	25°37	n.a.	S 24
S 25	19 59 21	28°15'13	16°22	9°53	1°52	27°46	20°16	20°51	1°24	12° 3	19°32	14° 9	13°20	25°43	n.a.	S 25
M26	20 3 18	29°13'07	29° 2	10°51	3° 6	28°24	20°20	20°58	1°23	12° 2	19°32	14°10	13°17	25°50	n.a.	M26
T 27	20 7 14	0♌11'04	12♋ 0	11°56	4°21	29° 2	20°23	21° 6	1°22	12° 1	19°32	14°R10	13°14	25°57	n.a.	T 27
W28	20 11 11	1° 9'02	25°17	13° 7	5°35	29°40	20°26	21°13	1°21	12° 0	19°32	14°10	13°10	26° 3	n.a.	W28
T 29	20 15 8	2° 7'02	8♌53	14°25	6°50	0♌19	20°29	21°20	1°20	11°59	19°32	14° 9	13° 7	26°10	n.a.	T 29
F 30	20 19 4	3° 5'03	22°46	15°48	8° 4	0°57	20°32	21°27	1°20	11°58	19°32	14° 7	13° 4	26°17	n.a.	F 30
S 31	20 23 1	4♌ 3'06	6♍51	17♋16	9♌19	1♌35	20♈35	21♌34	1♐19	11♓56	19♈32	14♉ 4	13♉ 1	26♈24	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23n36	19n 4	1s25	18n26	4s20	24n24	0n42	24n14	1n 7	5n55	1s19	17n12	1n45	20s48	0s 0	8s27	1s34	6s37	15s28	22s57	22s54	13n46			n.a.
F 2	23 34	14 38	2 33	18 22	4 28	24 24	0 44	24 10	1 7	5 57	1 20	17 10	1 45	20 47	0 0	8 27	1 34	6 37	15 28	22 57	22 54	13 48			n.a.
S 3	23 31	9 24	3 35	18 20	4 35	24 24	0 46	24 6	1 7	6 0	1 20	17 8	1 45	20 47	0 0	8 27	1 34	6 37	15 29	22 57	22 55	13 51			n.a.
S 4	23 28	3 38	4 24	18 20	4 39	24 23	0 48	24 2	1 7	6 3	1 20	17 6	1 45	20 47	0 0	8 27	1 34	6 37	15 29	22 57	22 55	13 53			n.a.
M 5	23 24	2s22	4 58	18 21	4 43	24 21	0 50	23 58	1 8	6 5	1 20	17 4	1 45	20 46	0 0	8 28	1 34	6 37	15 29	22 57	22 55	13 56			n.a.
T 6	23 20	8 18	5 15	18 24	4 44	24 18	0 52	23 54	1 8	6 8	1 20	17 2	1 45	20 46	0 0	8 28	1 34	6 37	15 30	22 57	22 56	13 58			n.a.
W 7	23 15	13 50	5 13	18 28	4 44	24 15	0 54	23 49	1 8	6 10	1 21	17 0	1 45	20 46	0 0	8 28	1 34	6 37	15 30	22 57	22 56	14 0			n.a.
T 8	23 10	18 40	4 52	18 34	4 42	24 11	0 56	23 45	1 8	6 12	1 21	16 58	1 45	20 45	0 0	8 28	1 34	6 38	15 30	22 57	22 56	14 3			n.a.
F 9	23 5	22 24	4 12	18 41	4 38	24 6	0 57	23 40	1 8	6 15	1 21	16 56	1 45	20 45	0 0	8 29	1 34	6 38	15 31	22 57	22 57	14 5			n.a.
S 10	22 59	24 45	3 17	18 50	4 32	24 1	0 59	23 35	1 8	6 17	1 21	16 54	1 45	20 45	0 0	8 29	1 35	6 38	15 31	22 57	22 57	14 8			n.a.
S 11	22 53	25 29	2 10	19 0	4 25	23 55	1 1	23 30	1 8	6 19	1 21	16 52	1 45	20 44	0 0	8 29	1 35	6 38	15 31	22 57	22 57	14 10			n.a.
M12	22 46	24 35	0 56	19 12	4 16	23 48	1 2	23 24	1 8	6 21	1 22	16 50	1 45	20 44	0 0	8 30	1 35	6 38	15 31	22 57	22 58	14 12			n.a.
T 13	22 39	22 12	0n20	19 24	4 6	23 40	1 4	23 19	1 8	6 23	1 22	16 48	1 44	20 44	0 0	8 30	1 35	6 38	15 32	22 57	22 58	14 15			n.a.
W14	22 32	18 37	1 33	19 37	3 54	23 32	1 5	23 13	1 9	6 25	1 22	16 45	1 44	20 43	0 0	8 30	1 35	6 39	15 32	22 57	22 58	14 17			n.a.
T 15	22 24	14 10	2 40	19 51	3 41	23 23	1 7	23 7	1 9	6 27	1 22	16 43	1 44	20 43	0 0	8 31	1 35	6 39	15 32	22 57	22 59	14 20			n.a.
F 16	22 16	9 12	3 36	20 6	3 27	23 13	1 8	23 1	1 9	6 29	1 22	16 41	1 44	20 43	0 0	8 31	1 35	6 39	15 33	22 57	22 59	14 22			n.a.
S 17	22 7	3 59	4 21	20 21	3 12	23 3	1 10	22 55	1 9	6 31	1 23	16 39	1 44	20 43	0 0	8 31	1 35	6 39	15 33	22 57	22 59	14 24			n.a.
S 18	21 58	1n17	4 53	20 37	2 56	22 51	1 11	22 48	1 9	6 32	1 23	16 37	1 44	20 42	0 0	8 32	1 35	6 40	15 33	22 57	23 0	14 27			n.a.
M19	21 49	6 24	5 12	20 53	2 40	22 40	1 12	22 42	1 9	6 34	1 23	16 34	1 44	20 42	0 0	8 32	1 35	6 40	15 33	22 57	23 0	14 29			n.a.
T 20	21 39	11 14	5 16	21 9	2 23	22 27	1 14	22 35	1 9	6 36	1 23	16 32	1 44	20 42	0 0	8 33	1 35	6 40	15 34	22 57	23 0	14 31			n.a.
W21	21 29	15 38	5 7	21 24	2 6	22 14	1 15	22 28	1 9	6 37	1 23	16 30	1 44	20 42	0 0	8 33	1 35	6 40	15 34	22 57	23 1	14 34			n.a.
T 22	21 18	19 26	4 45	21 40	1 50	22 0	1 16	22 21	1 9	6 38	1 24	16 28	1 44	20 41	0 0	8 34	1 35	6 41	15 34	22 57	23 1	14 36			n.a.
F 23	21 7	22 27	4 10	21 54	1 33	21 46	1 17	22 14	1 9	6 40	1 24	16 25	1 44	20 41	0 0	8 34	1 35	6 41	15 35	22 57	23 1	14 38			n.a.
S 24	20 56	24 31	3 24	22 8	1 16	21 31	1 18	22 6	1 9	6 41	1 24	16 23	1 44	20 41	0 0	8 34	1 35	6 41	15 35	22 57	23 2	14 41			n.a.
S 25	20 45	25 27	2 28	22 21	1 0	21 15	1 19	21 59	1 9	6 42	1 24	16 21	1 44	20 41	0 0	8 35	1 35	6 41	15 35	22 57	23 2	14 43			n.a.
M26	20 33	25 5	1 23	22 32	0 44	20 58	1 20	21 51	1 9	6 44	1 25	16 19	1 44	20 41	0 0	8 35	1 35	6 42	15 36	22 57	23 2	14 45			n.a.
T 27	20 20	23 22	0 12	22 42	0 28	20 41	1 20	21 43	1 9	6 45	1 25	16 16	1 44	20 40	0 0	8 36	1 35	6 42	15 36	22 57	23 3	14 48			n.a.
W28	20 8	20 19	1s 1	22 50	0 13	20 24	1 21	21 35	1 10	6 46	1 25	16 14	1 44	20 40	0 0	8 36	1 35	6 42	15 36	22 57	23 3	14 50			n.a.
T 29	19 55	16 7	2 12	22 56	0n 1	20 6	1 22	21 27	1 10	6 47	1 25	16 12	1 44	20 40	0 0	8 37	1 35	6 43	15 36	22 57	23 3	14 52			n.a.
F 30	19 41	10 59	3 17	23 0	0 14	19 47	1 23	21 18	1 10	6 47	1 26	16 9	1 44	20 40	0 0	8 37	1 36	6 43	15 37	22 57	23 4	14 55			n.a.
S 31	19n28	5n13	4s11	23n 1	0n27	19n28	1n23	21n10	1n10	6n48	1s26	16n 7	1n44	20s40	0s 0	8s38	1s36	6s43	15s37	22s57	23s 4	14n57			n.a.

Julian Day Number = 1680331.5, Delta T = 03h15m49s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'08, Lahiri = - 5°30'08 Julian Calendar 1 July 113 BCE == Greg. Calendar 28 June 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

AUGUST 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 26 57	5♌ 1'10	21♍ 5	18♋49	10♌33	2♌14	20♈37	21♌41	1°R18	11°R55	19°R31	14°R 2	12♑58	26♈30	n.a.	S 1
M 2	20 30 54	5°59'16	5♎24	20°26	11°48	2°52	20°40	21°49	1♐18	11♓54	19♈31	13♑59	12°54	26°37	n.a.	M 2
T 3	20 34 50	6°57'24	19°43	22° 7	13° 2	3°30	20°42	21°56	1°17	11°53	19°31	13°57	12°51	26°44	n.a.	T 3
W 4	20 38 47	7°55'33	3♏59	23°51	14°17	4° 9	20°43	22° 3	1°17	11°51	19°31	13°D56	12°48	26°51	n.a.	W 4
T 5	20 42 43	8°53'44	18° 9	25°38	15°31	4°47	20°45	22°10	1°16	11°50	19°31	13°57	12°45	26°57	n.a.	T 5
F 6	20 46 40	9°51'56	2♐12	27°27	16°46	5°25	20°47	22°18	1°16	11°49	19°30	13°58	12°42	27° 4	n.a.	F 6
S 7	20 50 37	10°50'10	16° 5	29°18	18° 0	6° 3	20°48	22°25	1°15	11°47	19°30	13°59	12°39	27°11	n.a.	S 7
S 8	20 54 33	11°48'25	29°48	1♌10	19°15	6°42	20°49	22°32	1°15	11°46	19°30	14° 0	12°35	27°17	n.a.	S 8
M 9	20 58 30	12°46'42	13♑20	3° 4	20°29	7°20	20°50	22°40	1°15	11°44	19°29	14°R 1	12°32	27°24	n.a.	M 9
T 10	21 2 26	13°45'01	26°40	4°58	21°44	7°59	20°51	22°47	1°15	11°43	19°29	14° 0	12°29	27°31	n.a.	T 10
W11	21 6 23	14°43'22	9♒47	6°53	22°59	8°37	20°51	22°55	1°15	11°42	19°29	13°58	12°26	27°38	n.a.	W11
T 12	21 10 19	15°41'45	22°40	8°48	24°13	9°15	20°51	23° 2	1°14	11°40	19°28	13°55	12°23	27°44	n.a.	T 12
F 13	21 14 16	16°40'09	5♓20	10°43	25°28	9°54	20°R51	23° 9	1°14	11°39	19°28	13°50	12°20	27°51	n.a.	F 13
S 14	21 18 12	17°38'36	17°46	12°38	26°42	10°32	20°51	23°17	1°D14	11°37	19°27	13°44	12°16	27°58	n.a.	S 14
S 15	21 22 9	18°37'05	0♈ 0	14°32	27°57	11°11	20°51	23°24	1°14	11°36	19°27	13°38	12°13	28° 4	n.a.	S 15
M16	21 26 5	19°35'36	12° 4	16°26	29°12	11°49	20°51	23°32	1°15	11°34	19°26	13°32	12°10	28°11	n.a.	M16
T 17	21 30 2	20°34'09	24° 0	18°19	0♍26	12°27	20°50	23°39	1°15	11°33	19°26	13°28	12° 7	28°18	n.a.	T 17
W18	21 33 59	21°32'44	5♉52	20°11	1°41	13° 6	20°49	23°46	1°15	11°31	19°25	13°25	12° 4	28°25	n.a.	W18
T 19	21 37 55	22°31'22	17°44	22° 3	2°55	13°44	20°48	23°54	1°15	11°30	19°25	13°D23	12° 0	28°31	n.a.	T 19
F 20	21 41 52	23°30'02	29°42	23°53	4°10	14°23	20°47	24° 1	1°15	11°28	19°24	13°23	11°57	28°38	n.a.	F 20
S 21	21 45 48	24°28'45	11♊50	25°43	5°25	15° 1	20°45	24° 9	1°16	11°26	19°24	13°24	11°54	28°45	n.a.	S 21
S 22	21 49 45	25°27'29	24°13	27°32	6°40	15°40	20°43	24°16	1°16	11°25	19°23	13°26	11°51	28°51	n.a.	S 22
M23	21 53 41	26°26'17	6♋56	29°20	7°54	16°18	20°41	24°23	1°17	11°23	19°23	13°R27	11°48	28°58	n.a.	M23
T 24	21 57 38	27°25'06	20° 1	1♍ 6	9° 9	16°57	20°39	24°31	1°17	11°22	19°22	13°27	11°45	29° 5	n.a.	T 24
W25	22 1 34	28°23'58	3♌31	2°52	10°24	17°35	20°37	24°38	1°18	11°20	19°21	13°25	11°41	29°12	n.a.	W25
T 26	22 5 31	29°22'52	17°25	4°37	11°38	18°14	20°34	24°46	1°18	11°18	19°21	13°21	11°38	29°18	n.a.	T 26
F 27	22 9 28	0♍21'48	1♍42	6°21	12°53	18°53	20°32	24°53	1°19	11°17	19°20	13°16	11°35	29°25	n.a.	F 27
S 28	22 13 24	1°20'46	16°15	8° 4	14° 8	19°31	20°29	25° 1	1°20	11°15	19°19	13° 8	11°32	29°32	n.a.	S 28
S 29	22 17 21	2°19'46	0♎57	9°47	15°22	20°10	20°26	25° 8	1°21	11°13	19°19	13° 1	11°29	29°38	n.a.	S 29
M30	22 21 17	3°18'48	15°42	11°28	16°37	20°48	20°22	25°15	1°21	11°12	19°18	12°53	11°25	29°45	n.a.	M30
T 31	22 25 14	4♍17'52	0♏21	13♍ 8	17♍52	21♌27	20♈19	25♌23	1♐22	11♓10	19♈17	12♑47	11♑22	29♈52	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n14	0s51	4s50	23n 1	0n39	19n 8	1n24	21n 1	1n10	6n49	1s26	16n 5	1n44	20s40	0s 0	8s38	1s36	6s44	15s37	22s58	23s 4	14n59		n.a.
M 2	18 59	6 55	5 11	22 57	0 49	18 47	1 24	20 52	1 10	6 50	1 26	16 2	1 44	20 40	0 0	8 39	1 36	6 44	15 38	22 58	23 5	15 2		n.a.
T 3	18 45	12 36	5 13	22 51	0 59	18 26	1 24	20 43	1 10	6 50	1 26	16 0	1 44	20 39	0 0	8 39	1 36	6 44	15 38	22 58	23 5	15 4		n.a.
W 4	18 30	17 36	4 55	22 42	1 8	18 5	1 25	20 34	1 10	6 51	1 27	15 57	1 44	20 39	0 0	8 40	1 36	6 45	15 38	22 58	23 5	15 6		n.a.
T 5	18 14	21 35	4 20	22 30	1 16	17 43	1 25	20 25	1 10	6 51	1 27	15 55	1 44	20 39	0 1	8 40	1 36	6 45	15 38	22 58	23 5	15 8		n.a.
F 6	17 59	24 15	3 30	22 16	1 23	17 20	1 25	20 15	1 10	6 51	1 27	15 53	1 44	20 39	0 1	8 41	1 36	6 45	15 39	22 58	23 6	15 11		n.a.
S 7	17 43	25 25	2 27	21 59	1 30	16 57	1 25	20 6	1 10	6 52	1 27	15 50	1 44	20 39	0 1	8 42	1 36	6 46	15 39	22 58	23 6	15 13		n.a.
S 8	17 26	25 0	1 17	21 40	1 35	16 34	1 25	19 56	1 10	6 52	1 28	15 48	1 44	20 39	0 1	8 42	1 36	6 46	15 39	22 58	23 6	15 15		n.a.
M 9	17 10	23 6	0 4	21 18	1 39	16 10	1 25	19 46	1 10	6 52	1 28	15 45	1 44	20 39	0 1	8 43	1 36	6 47	15 40	22 58	23 7	15 18		n.a.
T 10	16 53	19 56	1n 9	20 54	1 43	15 46	1 25	19 36	1 10	6 52	1 28	15 43	1 44	20 39	0 1	8 43	1 36	6 47	15 40	22 58	23 7	15 20		n.a.
W11	16 36	15 49	2 16	20 27	1 45	15 21	1 25	19 26	1 10	6 52	1 28	15 41	1 44	20 39	0 1	8 44	1 36	6 47	15 40	22 58	23 7	15 22		n.a.
T 12	16 19	11 2	3 15	19 59	1 47	14 56	1 25	19 16	1 10	6 52	1 28	15 38	1 45	20 39	0 1	8 44	1 36	6 48	15 40	22 58	23 8	15 24		n.a.
F 13	16 1	5 53	4 4	19 29	1 48	14 30	1 25	19 6	1 10	6 52	1 29	15 36	1 45	20 39	0 1	8 45	1 36	6 48	15 41	22 59	23 8	15 27		n.a.
S 14	15 43	0 36	4 40	18 57	1 49	14 4	1 24	18 55	1 10	6 52	1 29	15 33	1 45	20 39	0 1	8 46	1 36	6 48	15 41	23 0	23 8	15 29		n.a.
S 15	15 25	4n36	5 2	18 23	1 48	13 38	1 24	18 44	1 10	6 51	1 29	15 31	1 45	20 39	0 1	8 46	1 36	6 49	15 41	23 0	23 8	15 31		n.a.
M16	15 7	9 34	5 10	17 48	1 47	13 11	1 23	18 34	1 10	6 51	1 29	15 28	1 45	20 39	0 1	8 47	1 36	6 49	15 41	23 1	23 9	15 33		n.a.
T 17	14 48	14 8	5 5	17 11	1 46	12 44	1 23	18 23	1 10	6 50	1 30	15 26	1 45	20 39	0 1	8 48	1 36	6 50	15 42	23 1	23 9	15 36		n.a.
W18	14 29	18 8	4 47	16 34	1 44	12 16	1 22	18 12	1 10	6 50	1 30	15 24	1 45	20 39	0 1	8 48	1 36	6 50	15 42	23 1	23 9	15 38		n.a.
T 19	14 10	21 25	4 17	15 55	1 42	11 49	1 22	18 0	1 10	6 49	1 30	15 21	1 45	20 39	0 1	8 49	1 36	6 51	15 42	23 2	23 10	15 40		n.a.
F 20	13 50	23 49	3 35	15 15	1 39	11 21	1 21	17 49	1 10	6 49	1 30	15 19	1 45	20 39	0 1	8 49	1 36	6 51	15 42	23 2	23 10	15 42		n.a.
S 21	13 31	25 9	2 43	14 35	1 35	10 52	1 20	17 38	1 10	6 48	1 30	15 16	1 45	20 39	0 1	8 50	1 36	6 51	15 43	23 2	23 10	15 44		n.a.
S 22	13 11	25 17	1 42	13 54	1 31	10 23	1 19	17 26	1 10	6 47	1 31	15 14	1 45	20 39	0 1	8 51	1 36	6 52	15 43	23 1	23 10	15 47		n.a.
M23	12 51	24 7	0 35	13 12	1 27	9 54	1 18	17 14	1 10	6 46	1 31	15 11	1 45	20 40	0 1	8 51	1 36	6 52	15 43	23 1	23 11	15 49		n.a.
T 24	12 30	21 37	0s35	12 30	1 23	9 25	1 17	17 3	1 10	6 45	1 31	15 9	1 45	20 40	0 1	8 52	1 36	6 53	15 43	23 1	23 11	15 51		n.a.
W25	12 10	17 52	1 46	11 47	1 18	8 56	1 16	16 51	1 10	6 44	1 31	15 6	1 45	20 40	0 1	8 53	1 36	6 53	15 44	23 1	23 11	15 53		n.a.
T 26	11 49	13 3	2 53	11 3	1 13	8 26	1 15	16 39	1 10	6 43	1 31	15 4	1 45	20 40	0 1	8 53	1 36	6 54	15 44	23 2	23 12	15 55		n.a.
F 27	11 28	7 25	3 50	10 20	1 8	7 56	1 14	16 26	1 10	6 42	1 32	15 1	1 45	20 40	0 1	8 54	1 36	6 54	15 44	23 2	23 12	15 58		n.a.
S 28	11 7	1 17	4 34	9 36	1 2	7 26	1 13	16 14	1 10	6 40	1 32	14 59	1 45	20 40	0 1	8 54	1 36	6 55	15 44	23 3	23 12	16 0		n.a.
S 29	10 46	4s58	5 0	8 52	0 56	6 55	1 11	16 2	1 10	6 39	1 32	14 57	1 45	20 40	0 1	8 55	1 36	6 55	15 45	23 4	23 12	16 2		n.a.
M30	10 24	10 57	5 6	8 7	0 50	6 25	1 10	15 49	1 10	6 38	1 32	14 54	1 46	20 41	0 1	8 56	1 36	6 56	15 45	23 5	23 13	16 4		n.a.
T 31	10n 3	16s17	4s52	7n23	0n44	5n54	1n 9	15n37	1n10	6n36	1s32	14n52	1n46	20s41	0s 1	8s56	1s36	6s56	15s45	23s 5	23s13	16n 6		n.a.

Julian Day Number = 1680362.5, Delta T = 03h15m48s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'04, Lahiri = - 5°30'04 Julian Calendar 1 Aug. 113 BCE == Greg. Calendar 29 July 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

SEPTEMBER 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 29 10	5♍16'58	14♏49	14♍48	19♍ 7	22♌ 6	20°R15	25♌30	1♐23	11°R 9	19°R16	12°R43	11♑19	29♈59	n.a.	W 1
T 2	22 33 7	6°16'06	29° 2	16°26	20°21	22°44	20♈11	25°37	1°24	11♓ 7	19♈16	12♑42	11°16	0♉ 5	n.a.	T 2
F 3	22 37 3	7°15'16	12♐58	18° 4	21°36	23°23	20° 7	25°45	1°25	11° 5	19°15	12°D42	11°13	0°12	n.a.	F 3
S 4	22 41 0	8°14'28	26°38	19°41	22°51	24° 2	20° 3	25°52	1°26	11° 4	19°14	12°42	11°10	0°19	n.a.	S 4
S 5	22 44 57	9°13'41	10♑ 2	21°17	24° 5	24°40	19°59	25°59	1°27	11° 2	19°13	12°R43	11° 6	0°26	n.a.	S 5
M 6	22 48 53	10°12'57	23°12	22°52	25°20	25°19	19°54	26° 7	1°29	11° 0	19°12	12°43	11° 3	0°32	n.a.	M 6
T 7	22 52 50	11°12'14	6♒ 9	24°26	26°35	25°58	19°50	26°14	1°30	10°59	19°11	12°40	11° 0	0°39	n.a.	T 7
W 8	22 56 46	12°11'33	18°55	26° 0	27°50	26°36	19°45	26°21	1°31	10°57	19°11	12°35	10°57	0°46	n.a.	W 8
T 9	23 0 43	13°10'54	1♓31	27°33	29° 4	27°15	19°39	26°28	1°32	10°55	19°10	12°27	10°54	0°52	n.a.	T 9
F 10	23 4 39	14°10'18	13°56	29° 5	0♎19	27°54	19°34	26°36	1°34	10°53	19° 9	12°17	10°51	0°59	n.a.	F 10
S 11	23 8 36	15° 9'43	26°12	0♎36	1°34	28°33	19°29	26°43	1°35	10°52	19° 8	12° 5	10°47	1° 6	n.a.	S 11
S 12	23 12 32	16° 9'11	8♈19	2° 7	2°48	29°12	19°23	26°50	1°37	10°50	19° 7	11°53	10°44	1°13	n.a.	S 12
M13	23 16 29	17° 8'40	20°19	3°37	4° 3	29°50	19°17	26°57	1°38	10°48	19° 6	11°41	10°41	1°19	n.a.	M13
T 14	23 20 25	18° 8'12	2♉12	5° 6	5°18	0♍29	19°12	27° 4	1°40	10°47	19° 5	11°31	10°38	1°26	n.a.	T 14
W15	23 24 22	19° 7'47	14° 3	6°35	6°32	1° 8	19° 6	27°11	1°41	10°45	19° 4	11°23	10°35	1°33	n.a.	W15
T 16	23 28 19	20° 7'24	25°53	8° 2	7°47	1°47	18°59	27°18	1°43	10°44	19° 3	11°18	10°31	1°39	n.a.	T 16
F 17	23 32 15	21° 7'03	7♊48	9°29	9° 2	2°26	18°53	27°25	1°45	10°42	19° 2	11°15	10°28	1°46	n.a.	F 17
S 18	23 36 12	22° 6'45	19°52	10°55	10°16	3° 5	18°47	27°32	1°46	10°40	19° 1	11°D14	10°25	1°53	n.a.	S 18
S 19	23 40 8	23° 6'29	2♋11	12°21	11°31	3°44	18°40	27°39	1°48	10°39	19° 0	11°14	10°22	2° 0	n.a.	S 19
M20	23 44 5	24° 6'15	14°50	13°45	12°46	4°23	18°33	27°46	1°50	10°37	18°59	11°R14	10°19	2° 6	n.a.	M20
T 21	23 48 1	25° 6'04	27°54	15° 9	14° 0	5° 2	18°26	27°53	1°52	10°35	18°58	11°13	10°16	2°13	n.a.	T 21
W22	23 51 58	26° 5'55	11♌25	16°31	15°15	5°41	18°19	28° 0	1°54	10°34	18°57	11°10	10°12	2°20	n.a.	W22
T 23	23 55 54	27° 5'48	25°26	17°53	16°30	6°20	18°12	28° 7	1°56	10°32	18°56	11° 4	10° 9	2°26	n.a.	T 23
F 24	23 59 51	28° 5'43	9♍54	19°14	17°44	6°59	18° 5	28°14	1°58	10°31	18°55	10°56	10° 6	2°33	n.a.	F 24
S 25	0 3 48	29° 5'41	24°45	20°34	18°59	7°38	17°58	28°21	2° 0	10°29	18°54	10°45	10° 3	2°40	n.a.	S 25
S 26	0 7 44	0♎ 5'41	9♎50	21°52	20°14	8°17	17°50	28°27	2° 2	10°27	18°53	10°34	10° 0	2°46	n.a.	S 26
M27	0 11 41	1° 5'42	24°59	23°10	21°28	8°56	17°43	28°34	2° 4	10°26	18°52	10°23	9°56	2°53	n.a.	M27
T 28	0 15 37	2° 5'46	10♏ 2	24°26	22°43	9°35	17°35	28°41	2° 6	10°24	18°51	10°13	9°53	3° 0	n.a.	T 28
W29	0 19 34	3° 5'51	24°49	25°40	23°58	10°14	17°28	28°47	2° 9	10°23	18°50	10° 7	9°50	3° 7	n.a.	W29
T 30	0 23 30	4♎ 5'58	9♐15	26♎53	25♎12	10♍53	17♈20	28♌54	2♐11	10♓21	18♈49	10♑ 3	9♑47	3♉13	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n41	20s36	4s20	6n38	0n38	5n23	1n 7	15n24	1n10	6n35	1s32	14n49	1n46	20s41	0s 1	8s57	1s36	6s57	15s45	23s 6	23s13	16n 8		n.a.
T 2	9 19	23 37	3 32	5 54	0 32	4 52	1 6	15 11	1 10	6 33	1 33	14 47	1 46	20 41	0 1	8 58	1 36	6 57	15 45	23 6	23 14	16 11		n.a.
F 3	8 57	25 8	2 32	5 9	0 25	4 21	1 4	14 58	1 10	6 31	1 33	14 44	1 46	20 41	0 1	8 58	1 36	6 57	15 46	23 6	23 14	16 13		n.a.
S 4	8 34	25 5	1 25	4 25	0 18	3 50	1 3	14 45	1 10	6 30	1 33	14 42	1 46	20 42	0 1	8 59	1 36	6 58	15 46	23 6	23 14	16 15		n.a.
S 5	8 12	23 34	0 14	3 40	0 11	3 18	1 1	14 32	1 10	6 28	1 33	14 39	1 46	20 42	0 1	9 0	1 36	6 58	15 46	23 6	23 14	16 17		n.a.
M 6	7 49	20 46	0n56	2 56	0 5	2 47	0 59	14 19	1 9	6 26	1 33	14 37	1 46	20 42	0 1	9 0	1 36	6 59	15 46	23 6	23 15	16 19		n.a.
T 7	7 27	16 59	2 2	2 12	0s 2	2 15	0 57	14 6	1 9	6 24	1 33	14 35	1 46	20 42	0 1	9 1	1 37	6 59	15 46	23 6	23 15	16 21		n.a.
W 8	7 4	12 28	3 1	1 28	0 9	1 43	0 56	13 52	1 9	6 22	1 34	14 32	1 46	20 43	0 1	9 2	1 37	7 0	15 47	23 6	23 15	16 24		n.a.
T 9	6 41	7 29	3 50	0 44	0 16	1 12	0 54	13 39	1 9	6 20	1 34	14 30	1 46	20 43	0 1	9 2	1 37	7 0	15 47	23 7	23 15	16 26		n.a.
F 10	6 18	2 17	4 27	0 1	0 23	0 40	0 52	13 25	1 9	6 18	1 34	14 27	1 47	20 43	0 1	9 3	1 37	7 1	15 47	23 8	23 16	16 28		n.a.
S 11	5 55	2n55	4 51	0s43	0 30	0 8	0 50	13 11	1 9	6 16	1 34	14 25	1 47	20 43	0 1	9 4	1 37	7 1	15 47	23 9	23 16	16 30		n.a.
S 12	5 31	7 57	5 2	1 25	0 37	0s24	0 48	12 58	1 9	6 13	1 34	14 23	1 47	20 44	0 1	9 4	1 37	7 2	15 47	23 10	23 16	16 32		n.a.
M13	5 8	12 38	4 59	2 8	0 45	0 56	0 46	12 44	1 9	6 11	1 34	14 20	1 47	20 44	0 1	9 5	1 37	7 2	15 47	23 11	23 16	16 34		n.a.
T 14	4 45	16 48	4 43	2 50	0 52	1 28	0 44	12 30	1 9	6 9	1 34	14 18	1 47	20 44	0 1	9 6	1 37	7 3	15 48	23 12	23 17	16 36		n.a.
W15	4 21	20 17	4 15	3 32	0 59	1 59	0 41	12 16	1 9	6 6	1 34	14 16	1 47	20 45	0 1	9 6	1 37	7 3	15 48	23 13	23 17	16 38		n.a.
T 16	3 57	22 57	3 36	4 13	1 6	2 31	0 39	12 2	1 9	6 4	1 35	14 13	1 47	20 45	0 1	9 7	1 37	7 4	15 48	23 13	23 17	16 40		n.a.
F 17	3 34	24 37	2 48	4 54	1 12	3 3	0 37	11 47	1 9	6 1	1 35	14 11	1 47	20 45	0 1	9 7	1 37	7 4	15 48	23 14	23 17	16 43		n.a.
S 18	3 10	25 10	1 51	5 35	1 19	3 35	0 35	11 33	1 9	5 59	1 35	14 9	1 48	20 46	0 1	9 8	1 37	7 5	15 48	23 14	23 18	16 45		n.a.
S 19	2 46	24 29	0 48	6 15	1 26	4 6	0 32	11 19	1 8	5 56	1 35	14 6	1 48	20 46	0 1	9 9	1 37	7 5	15 48	23 14	23 18	16 47		n.a.
M20	2 22	22 33	0s19	6 54	1 33	4 38	0 30	11 4	1 8	5 53	1 35	14 4	1 48	20 47	0 1	9 9	1 37	7 6	15 48	23 14	23 18	16 49		n.a.
T 21	1 58	19 24	1 27	7 33	1 39	5 10	0 28	10 50	1 8	5 51	1 35	14 2	1 48	20 47	0 1	9 10	1 37	7 6	15 48	23 14	23 18	16 51		n.a.
W22	1 34	15 6	2 33	8 11	1 45	5 41	0 25	10 35	1 8	5 48	1 35	13 59	1 48	20 47	0 1	9 10	1 36	7 7	15 49	23 14	23 19	16 53		n.a.
T 23	1 10	9 53	3 31	8 49	1 52	6 12	0 23	10 21	1 8	5 45	1 35	13 57	1 48	20 48	0 1	9 11	1 36	7 7	15 49	23 15	23 19	16 55		n.a.
F 24	0 46	3 58	4 18	9 25	1 58	6 43	0 21	10 6	1 8	5 42	1 35	13 55	1 48	20 48	0 1	9 12	1 36	7 8	15 49	23 15	23 19	16 57		n.a.
S 25	0 22	2s18	4 49	10 1	2 4	7 14	0 18	9 51	1 8	5 40	1 35	13 53	1 48	20 49	0 1	9 12	1 36	7 8	15 49	23 16	23 19	16 59		n.a.
S 26	0s 2	8 32	5 0	10 37	2 9	7 45	0 16	9 36	1 8	5 37	1 35	13 50	1 49	20 49	0 1	9 13	1 36	7 9	15 49	23 17	23 20	17 1		n.a.
M27	0 26	14 17	4 51	11 11	2 15	8 16	0 13	9 21	1 8	5 34	1 35	13 48	1 49	20 50	0 1	9 13	1 36	7 9	15 49	23 18	23 20	17 3		n.a.
T 28	0 51	19 7	4 21	11 44	2 20	8 46	0 10	9 6	1 7	5 31	1 35	13 46	1 49	20 50	0 1	9 14	1 36	7 9	15 49	23 19	23 20	17 5		n.a.
W29	1 15	22 39	3 34	12 16	2 25	9 17	0 8	8 51	1 7	5 28	1 35	13 44	1 49	20 50	0 1	9 15	1 36	7 10	15 49	23 19	23 20	17 7		n.a.
T 30	1s39	24s38	2s35	12s48	2s29	9s47	0n 5	8n36	1n 7	5n25	1s35	13n42	1n49	20s51	0s 1	9s15	1s36	7s10	15s49	23s19	23s21	17n 9		n.a.

Julian Day Number = 1680393.5, Delta T = 03h15m47s
Ecliptic obliquity = 23°42'34, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°37'00, Lahiri = - 5°29'59 Julian Calendar 1 Sept. 113 BCE == Greg. Calendar 29 Aug. 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

OCTOBER 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 27 27	5♎ 6'07	23♐18	28♎ 4	26♎27	11♍32	17°R12	29♌ 0	2♐13	10°R20	18°R48	10°R 1	9♑44	3♉20	n.a.	F 1
S 2	0 31 23	6° 6'17	6♑56	29°13	27°42	12°11	17♈ 4	29° 7	2°16	10♓18	18♈47	10♑ 1	9°41	3°27	n.a.	S 2
S 3	0 35 20	7° 6'29	20°13	0♏20	28°56	12°50	16°56	29°13	2°18	10°17	18°45	10° 0	9°37	3°33	n.a.	S 3
M 4	0 39 17	8° 6'43	3♒12	1°25	0♏11	13°30	16°48	29°19	2°21	10°16	18°44	9°59	9°34	3°40	n.a.	M 4
T 5	0 43 13	9° 6'58	15°54	2°27	1°25	14° 9	16°40	29°26	2°23	10°14	18°43	9°56	9°31	3°47	n.a.	T 5
W 6	0 47 10	10° 7'15	28°24	3°26	2°40	14°48	16°32	29°32	2°26	10°13	18°42	9°49	9°28	3°54	n.a.	W 6
T 7	0 51 6	11° 7'33	10♓45	4°21	3°55	15°27	16°24	29°38	2°28	10°11	18°41	9°39	9°25	4° 0	n.a.	T 7
F 8	0 55 3	12° 7'53	22°57	5°13	5° 9	16° 6	16°16	29°44	2°31	10°10	18°40	9°27	9°22	4° 7	n.a.	F 8
S 9	0 58 59	13° 8'15	5♈ 2	6° 0	6°24	16°46	16° 8	29°50	2°33	10° 9	18°39	9°13	9°18	4°14	n.a.	S 9
S 10	1 2 56	14° 8'38	17° 1	6°43	7°38	17°25	16° 0	29°56	2°36	10° 7	18°38	8°58	9°15	4°20	n.a.	S 10
M11	1 6 52	15° 9'04	28°56	7°21	8°53	18° 4	15°51	0♍ 2	2°39	10° 6	18°37	8°44	9°12	4°27	n.a.	M11
T 12	1 10 49	16° 9'31	10♉48	7°53	10° 7	18°44	15°43	0° 8	2°41	10° 5	18°35	8°31	9° 9	4°34	n.a.	T 12
W13	1 14 45	17°10'00	22°37	8°18	11°22	19°23	15°35	0°14	2°44	10° 3	18°34	8°21	9° 6	4°41	n.a.	W13
T 14	1 18 42	18°10'31	4♊28	8°36	12°36	20° 2	15°27	0°20	2°47	10° 2	18°33	8°14	9° 2	4°47	n.a.	T 14
F 15	1 22 39	19°11'04	16°23	8°46	13°51	20°42	15°19	0°26	2°50	10° 1	18°32	8° 9	8°59	4°54	n.a.	F 15
S 16	1 26 35	20°11'38	28°26	8°R47	15° 5	21°21	15°11	0°31	2°53	10° 0	18°31	8° 7	8°56	5° 1	n.a.	S 16
S 17	1 30 32	21°12'15	10♋42	8°39	16°20	22° 0	15° 3	0°37	2°56	9°59	18°30	8°D 7	8°53	5° 7	n.a.	S 17
M18	1 34 28	22°12'53	23°16	8°22	17°34	22°40	14°55	0°43	2°59	9°57	18°29	8°R 7	8°50	5°14	n.a.	M18
T 19	1 38 25	23°13'33	6♌13	7°53	18°49	23°19	14°46	0°48	3° 1	9°56	18°27	8° 7	8°47	5°21	n.a.	T 19
W20	1 42 21	24°14'15	19°37	7°15	20° 3	23°59	14°39	0°53	3° 4	9°55	18°26	8° 4	8°43	5°28	n.a.	W20
T 21	1 46 18	25°14'59	3♍31	6°26	21°17	24°38	14°31	0°59	3° 8	9°54	18°25	7°59	8°40	5°34	n.a.	T 21
F 22	1 50 14	26°15'45	17°55	5°27	22°32	25°18	14°23	1° 4	3°11	9°53	18°24	7°52	8°37	5°41	n.a.	F 22
S 23	1 54 11	27°16'32	2♎46	4°20	23°46	25°57	14°15	1° 9	3°14	9°52	18°23	7°42	8°34	5°48	n.a.	S 23
S 24	1 58 8	28°17'20	17°57	3° 6	25° 1	26°37	14° 7	1°14	3°17	9°51	18°22	7°31	8°31	5°54	n.a.	S 24
M25	2 2 4	29°18'11	3♏17	1°46	26°15	27°17	14° 0	1°19	3°20	9°50	18°21	7°21	8°28	6° 1	n.a.	M25
T 26	2 6 1	0♏19'02	18°35	0°25	27°29	27°56	13°52	1°24	3°23	9°49	18°20	7°12	8°24	6° 8	n.a.	T 26
W27	2 9 57	1°19'55	3♐39	29♎ 3	28°44	28°36	13°45	1°29	3°26	9°48	18°19	7° 5	8°21	6°14	n.a.	W27
T 28	2 13 54	2°20'49	18°22	27°44	29°58	29°15	13°37	1°34	3°29	9°47	18°17	7° 1	8°18	6°21	n.a.	T 28
F 29	2 17 50	3°21'44	2♑39	26°31	1♐12	29°55	13°30	1°39	3°33	9°47	18°16	7°D 0	8°15	6°28	n.a.	F 29
S 30	2 21 47	4°22'40	16°27	25°26	2°27	0♎35	13°23	1°44	3°36	9°46	18°15	7° 0	8°12	6°35	n.a.	S 30
S 31	2 25 43	5♏23'37	29♑49	24♎30	3♐41	1♎14	13♈16	1♍48	3♐39	9♓45	18♈14	7°R 1	8♑ 8	6♉41	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	2s 3	24s59	1s27	13s18	2s34	10s17	0n 3	8n21	1n 7	5n22	1s35	13n39	1n49	20s51	0s 1	9s16	1s36	7s11	15s49	23s20	23s21	17n11		n.a.
S 2	2 27	23 48	0 16	13 46	2 38	10 46	0 0	8 6	1 7	5 19	1 35	13 37	1 50	20 52	0 1	9 16	1 36	7 11	15 49	23 20	23 21	17 13		n.a.
S 3	2 51	21 17	0n54	14 14	2 41	11 15	0s 3	7 50	1 7	5 16	1 35	13 35	1 50	20 52	0 1	9 17	1 36	7 12	15 49	23 20	23 21	17 15		n.a.
M 4	3 15	17 44	1 59	14 39	2 44	11 45	0 5	7 35	1 7	5 13	1 35	13 33	1 50	20 53	0 1	9 17	1 36	7 12	15 49	23 20	23 22	17 17		n.a.
T 5	3 39	13 26	2 57	15 4	2 47	12 13	0 8	7 20	1 6	5 10	1 35	13 31	1 50	20 53	0 1	9 18	1 36	7 13	15 49	23 20	23 22	17 19		n.a.
W 6	4 3	8 38	3 46	15 26	2 48	12 42	0 10	7 4	1 6	5 7	1 35	13 29	1 50	20 54	0 1	9 18	1 36	7 13	15 50	23 20	23 22	17 21		n.a.
T 7	4 27	3 34	4 23	15 46	2 50	13 10	0 13	6 49	1 6	5 3	1 35	13 27	1 50	20 54	0 1	9 19	1 36	7 13	15 50	23 21	23 22	17 23		n.a.
F 8	4 51	1n33	4 47	16 5	2 50	13 38	0 16	6 33	1 6	5 0	1 35	13 25	1 51	20 55	0 1	9 19	1 36	7 14	15 50	23 22	23 22	17 25		n.a.
S 9	5 15	6 35	4 58	16 21	2 50	14 6	0 18	6 18	1 6	4 57	1 35	13 23	1 51	20 55	0 1	9 20	1 36	7 14	15 50	23 23	23 23	17 27		n.a.
S 10	5 38	11 19	4 56	16 34	2 49	14 33	0 21	6 2	1 6	4 54	1 35	13 21	1 51	20 56	0 1	9 20	1 36	7 15	15 50	23 24	23 23	17 29		n.a.
M11	6 2	15 35	4 41	16 45	2 47	15 0	0 24	5 46	1 5	4 51	1 35	13 19	1 51	20 57	0 1	9 21	1 36	7 15	15 50	23 25	23 23	17 31		n.a.
T 12	6 25	19 15	4 14	16 53	2 45	15 26	0 26	5 30	1 5	4 48	1 35	13 17	1 51	20 57	0 1	9 21	1 36	7 16	15 50	23 26	23 23	17 33		n.a.
W13	6 49	22 6	3 36	16 57	2 40	15 52	0 29	5 15	1 5	4 45	1 35	13 15	1 52	20 58	0 1	9 22	1 36	7 16	15 50	23 27	23 24	17 35		n.a.
T 14	7 12	24 1	2 48	16 58	2 35	16 18	0 32	4 59	1 5	4 42	1 35	13 13	1 52	20 58	0 1	9 22	1 36	7 16	15 50	23 27	23 24	17 37		n.a.
F 15	7 36	24 52	1 52	16 55	2 29	16 43	0 34	4 43	1 5	4 39	1 35	13 11	1 52	20 59	0 1	9 23	1 36	7 17	15 50	23 27	23 24	17 39		n.a.
S 16	7 59	24 33	0 51	16 48	2 20	17 8	0 37	4 27	1 5	4 36	1 34	13 9	1 52	20 59	0 1	9 23	1 36	7 17	15 49	23 27	23 24	17 41		n.a.
S 17	8 22	23 3	0s14	16 36	2 11	17 32	0 40	4 11	1 4	4 33	1 34	13 8	1 52	21 0	0 1	9 24	1 36	7 18	15 49	23 27	23 24	17 43		n.a.
M18	8 45	20 22	1 19	16 20	2 0	17 56	0 42	3 55	1 4	4 30	1 34	13 6	1 52	21 0	0 1	9 24	1 36	7 18	15 49	23 27	23 25	17 45		n.a.
T 19	9 7	16 37	2 23	15 58	1 47	18 20	0 45	3 39	1 4	4 27	1 34	13 4	1 53	21 1	0 1	9 24	1 36	7 18	15 49	23 27	23 25	17 47		n.a.
W20	9 30	11 55	3 21	15 32	1 32	18 43	0 47	3 23	1 4	4 24	1 34	13 2	1 53	21 2	0 1	9 25	1 36	7 19	15 49	23 28	23 25	17 49		n.a.
T 21	9 53	6 27	4 10	15 0	1 16	19 5	0 50	3 7	1 4	4 21	1 34	13 0	1 53	21 2	0 1	9 25	1 36	7 19	15 49	23 28	23 25	17 51		n.a.
F 22	10 15	0 28	4 44	14 24	0 58	19 27	0 53	2 51	1 3	4 18	1 34	12 59	1 53	21 3	0 1	9 25	1 36	7 19	15 49	23 28	23 26	17 53		n.a.
S 23	10 37	5s42	5 1	13 43	0 39	19 49	0 55	2 35	1 3	4 15	1 33	12 57	1 54	21 3	0 1	9 26	1 36	7 20	15 49	23 29	23 26	17 55		n.a.
S 24	10 59	11 41	4 57	12 59	0 19	20 10	0 58	2 19	1 3	4 12	1 33	12 55	1 54	21 4	0 1	9 26	1 36	7 20	15 49	23 30	23 26	17 56		n.a.
M25	11 21	17 0	4 32	12 12	0n 2	20 30	1 0	2 3	1 3	4 9	1 33	12 54	1 54	21 5	0 1	9 27	1 36	7 20	15 49	23 30	23 26	17 58		n.a.
T 26	11 43	21 11	3 48	11 24	0 23	20 50	1 2	1 47	1 2	4 6	1 33	12 52	1 54	21 5	0 1	9 27	1 36	7 21	15 49	23 31	23 26	18 0		n.a.
W27	12 4	23 52	2 48	10 36	0 43	21 9	1 5	1 31	1 2	4 4	1 33	12 51	1 54	21 6	0 1	9 27	1 36	7 21	15 49	23 31	23 27	18 2		n.a.
T 28	12 25	24 49	1 38	9 49	1 2	21 28	1 7	1 15	1 2	4 1	1 33	12 49	1 55	21 7	0 1	9 27	1 36	7 21	15 49	23 31	23 27	18 4		n.a.
F 29	12 46	24 4	0 23	9 6	1 20	21 46	1 10	0 58	1 2	3 58	1 32	12 48	1 55	21 7	0 1	9 28	1 36	7 22	15 49	23 31	23 27	18 6		n.a.
S 30	13 7	21 51	0n50	8 27	1 37	22 3	1 12	0 42	1 1	3 56	1 32	12 46	1 55	21 8	0 1	9 28	1 36	7 22	15 48	23 31	23 27	18 8		n.a.
S 31	13s28	18s29	1n59	7s53	1n51	22s20	1s14	0n26	1n 1	3n53	1s32	12n45	1n55	21s 8	0s 1	9s28	1s36	7s22	15s48	23s31	23s27	18n10		n.a.

Julian Day Number = 1680423.5, Delta T = 03h15m46s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'56, Lahiri = - 5°29'55 Julian Calendar 1 Oct. 113 BCE == Greg. Calendar 28 Sept. 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

NOVEMBER 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 29 40	6♏24'35	12♒47	23°R45	4♐55	1♎54	13°R 9	1♍53	3♐43	9°R44	18°R13	7°R 1	8♉ 5	6♉48	n.a.	M 1
T 2	2 33 37	7°25'33	25°26	23♎11	6°10	2°34	13♈ 2	1°57	3°46	9♓43	18♈12	6♉59	8° 2	6°55	n.a.	T 2
W 3	2 37 33	8°26'33	7♓49	22°49	7°24	3°13	12°55	2° 1	3°49	9°43	18°11	6°55	7°59	7° 1	n.a.	W 3
T 4	2 41 30	9°27'33	20° 0	22°38	8°38	3°53	12°49	2° 6	3°53	9°42	18°10	6°48	7°56	7° 8	n.a.	T 4
F 5	2 45 26	10°28'34	2♈ 3	22°D38	9°52	4°33	12°42	2°10	3°56	9°41	18° 9	6°39	7°53	7°15	n.a.	F 5
S 6	2 49 23	11°29'35	14° 0	22°48	11° 6	5°13	12°36	2°14	3°59	9°41	18° 8	6°28	7°49	7°22	n.a.	S 6
S 7	2 53 19	12°30'38	25°53	23° 8	12°21	5°53	12°30	2°18	4° 3	9°40	18° 7	6°17	7°46	7°28	n.a.	S 7
M 8	2 57 16	13°31'41	7♉45	23°36	13°35	6°32	12°24	2°22	4° 6	9°40	18° 6	6° 6	7°43	7°35	n.a.	M 8
T 9	3 1 12	14°32'46	19°37	24°11	14°49	7°12	12°18	2°26	4°10	9°39	18° 5	5°57	7°40	7°42	n.a.	T 9
W10	3 5 9	15°33'51	1♊29	24°54	16° 3	7°52	12°13	2°29	4°13	9°39	18° 4	5°49	7°37	7°48	n.a.	W10
T 11	3 9 6	16°34'57	13°25	25°42	17°17	8°32	12° 7	2°33	4°17	9°38	18° 3	5°44	7°33	7°55	n.a.	T 11
F 12	3 13 2	17°36'05	25°26	26°36	18°31	9°12	12° 2	2°37	4°20	9°38	18° 2	5°41	7°30	8° 2	n.a.	F 12
S 13	3 16 59	18°37'13	7♋35	27°35	19°45	9°52	11°57	2°40	4°24	9°38	18° 1	5°D41	7°27	8° 8	n.a.	S 13
S 14	3 20 55	19°38'22	19°54	28°37	20°59	10°32	11°52	2°44	4°27	9°37	18° 0	5°42	7°24	8°15	n.a.	S 14
M15	3 24 52	20°39'32	2♌29	29°43	22°13	11°12	11°47	2°47	4°31	9°37	17°59	5°43	7°21	8°22	n.a.	M15
T 16	3 28 48	21°40'42	15°23	0♏53	23°27	11°52	11°42	2°50	4°34	9°37	17°58	5°44	7°18	8°29	n.a.	T 16
W17	3 32 45	22°41'54	28°40	2° 5	24°41	12°32	11°38	2°53	4°38	9°36	17°57	5°R44	7°14	8°35	n.a.	W17
T 18	3 36 42	23°43'06	12♍23	3°19	25°55	13°12	11°33	2°56	4°41	9°36	17°56	5°42	7°11	8°42	n.a.	T 18
F 19	3 40 38	24°44'19	26°33	4°35	27° 8	13°52	11°29	2°59	4°45	9°36	17°55	5°39	7° 8	8°49	n.a.	F 19
S 20	3 44 35	25°45'33	11♎ 8	5°54	28°22	14°32	11°26	3° 2	4°49	9°36	17°55	5°34	7° 5	8°55	n.a.	S 20
S 21	3 48 31	26°46'48	26° 5	7°13	29°36	15°12	11°22	3° 4	4°52	9°36	17°54	5°28	7° 2	9° 2	n.a.	S 21
M22	3 52 28	27°48'03	11♏16	8°34	0♑50	15°52	11°18	3° 7	4°56	9°36	17°53	5°22	6°59	9° 9	n.a.	M22
T 23	3 56 24	28°49'19	26°30	9°57	2° 4	16°32	11°15	3°10	4°59	9°D36	17°52	5°17	6°55	9°16	n.a.	T 23
W24	4 0 21	29°50'35	11♐37	11°20	3°17	17°12	11°12	3°12	5° 3	9°36	17°51	5°13	6°52	9°22	n.a.	W24
T 25	4 4 17	0♐51'52	26°28	12°45	4°31	17°52	11° 9	3°14	5° 7	9°36	17°50	5°11	6°49	9°29	n.a.	T 25
F 26	4 8 14	1°53'08	10♑56	14°10	5°45	18°33	11° 6	3°16	5°10	9°36	17°50	5°D11	6°46	9°36	n.a.	F 26
S 27	4 12 11	2°54'24	24°57	15°36	6°58	19°13	11° 4	3°18	5°14	9°36	17°49	5°12	6°43	9°42	n.a.	S 27
S 28	4 16 7	3°55'41	8♒29	17° 3	8°12	19°53	11° 1	3°20	5°18	9°36	17°48	5°14	6°39	9°49	n.a.	S 28
M29	4 20 4	4°56'57	21°36	18°30	9°25	20°33	10°59	3°22	5°21	9°36	17°47	5°15	6°36	9°56	n.a.	M29
T 30	4 24 0	5♐58'13	4♓19	19♏58	10♑39	21♎13	10♈57	3♍24	5♐25	9♓36	17♈47	5°R16	6♉33	10♉ 2	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13 s48	14 s18	2n59	7 s24	2n 4	22 s36	1 s16	0n10	1n 1	3n50	1 s32	12n43	1n56	21 s 9	0 s 1	9 s29	1 s35	7 s23	15 s48	23 s31	23 s28	18n12		n.a.
T 2	14 9	9 36	3 49	7 2	2 14	22 52	1 18	0 s 6	1 1	3 48	1 32	12 42	1 56	21 10	0 1	9 29	1 35	7 23	15 48	23 31	23 28	18 13		n.a.
W 3	14 29	4 37	4 27	6 46	2 22	23 7	1 21	0 22	1 0	3 46	1 31	12 40	1 56	21 10	0 1	9 29	1 35	7 23	15 48	23 32	23 28	18 15		n.a.
T 4	14 48	0n28	4 52	6 36	2 29	23 21	1 23	0 39	1 0	3 43	1 31	12 39	1 56	21 11	0 1	9 29	1 35	7 23	15 48	23 32	23 28	18 17		n.a.
F 5	15 8	5 27	5 4	6 32	2 33	23 35	1 25	0 55	1 0	3 41	1 31	12 38	1 56	21 12	0 1	9 29	1 35	7 24	15 48	23 32	23 28	18 19		n.a.
S 6	15 27	10 12	5 2	6 33	2 36	23 47	1 27	1 11	1 0	3 39	1 31	12 37	1 57	21 12	0 1	9 30	1 35	7 24	15 47	23 33	23 29	18 21		n.a.
S 7	15 46	14 34	4 47	6 39	2 38	24 0	1 29	1 27	0 59	3 37	1 30	12 35	1 57	21 13	0 1	9 30	1 35	7 24	15 47	23 33	23 29	18 23		n.a.
M 8	16 5	18 21	4 20	6 49	2 38	24 11	1 30	1 43	0 59	3 34	1 30	12 34	1 57	21 14	0 1	9 30	1 35	7 24	15 47	23 34	23 29	18 24		n.a.
T 9	16 23	21 23	3 42	7 4	2 37	24 22	1 32	2 0	0 59	3 32	1 30	12 33	1 57	21 14	0 1	9 30	1 35	7 25	15 47	23 34	23 29	18 26		n.a.
W10	16 41	23 31	2 53	7 21	2 35	24 32	1 34	2 16	0 58	3 30	1 30	12 32	1 58	21 15	0 1	9 30	1 35	7 25	15 47	23 35	23 29	18 28		n.a.
T 11	16 59	24 36	1 57	7 42	2 32	24 41	1 36	2 32	0 58	3 29	1 29	12 31	1 58	21 16	0 1	9 30	1 35	7 25	15 47	23 35	23 29	18 30		n.a.
F 12	17 16	24 33	0 55	8 5	2 28	24 49	1 37	2 48	0 58	3 27	1 29	12 30	1 58	21 16	0 1	9 31	1 35	7 25	15 46	23 35	23 30	18 32		n.a.
S 13	17 34	23 19	0 s10	8 30	2 23	24 57	1 39	3 4	0 57	3 25	1 29	12 29	1 58	21 17	0 1	9 31	1 35	7 25	15 46	23 35	23 30	18 34		n.a.
S 14	17 50	20 57	1 16	8 57	2 18	25 4	1 41	3 20	0 57	3 23	1 28	12 28	1 59	21 18	0 1	9 31	1 35	7 26	15 46	23 35	23 30	18 35		n.a.
M15	18 7	17 33	2 20	9 26	2 13	25 10	1 42	3 36	0 57	3 22	1 28	12 27	1 59	21 18	0 1	9 31	1 35	7 26	15 46	23 35	23 30	18 37		n.a.
T 16	18 23	13 15	3 18	9 56	2 7	25 16	1 43	3 53	0 57	3 20	1 28	12 26	1 59	21 19	0 1	9 31	1 35	7 26	15 46	23 35	23 30	18 39		n.a.
W17	18 39	8 12	4 8	10 27	2 1	25 21	1 45	4 9	0 56	3 19	1 28	12 25	1 59	21 20	0 1	9 31	1 35	7 26	15 45	23 35	23 31	18 41		n.a.
T 18	18 55	2 36	4 45	10 58	1 54	25 25	1 46	4 25	0 56	3 17	1 27	12 24	2 0	21 20	0 1	9 31	1 35	7 26	15 45	23 35	23 31	18 42		n.a.
F 19	19 10	3 s17	5 6	11 31	1 47	25 28	1 47	4 41	0 56	3 16	1 27	12 23	2 0	21 21	0 1	9 31	1 35	7 26	15 45	23 35	23 31	18 44		n.a.
S 20	19 25	9 10	5 9	12 3	1 40	25 30	1 48	4 57	0 55	3 15	1 27	12 22	2 0	21 22	0 1	9 31	1 35	7 26	15 45	23 35	23 31	18 46		n.a.
S 21	19 39	14 41	4 50	12 37	1 33	25 32	1 49	5 13	0 55	3 13	1 26	12 22	2 1	21 22	0 1	9 31	1 35	7 26	15 45	23 36	23 31	18 48		n.a.
M22	19 54	19 21	4 12	13 10	1 26	25 33	1 50	5 29	0 54	3 12	1 26	12 21	2 1	21 23	0 1	9 31	1 35	7 27	15 44	23 36	23 31	18 50		n.a.
T 23	20 7	22 45	3 15	13 43	1 19	25 33	1 51	5 44	0 54	3 11	1 26	12 20	2 1	21 24	0 1	9 31	1 35	7 27	15 44	23 36	23 32	18 51		n.a.
W24	20 21	24 30	2 5	14 16	1 11	25 32	1 52	6 0	0 54	3 10	1 25	12 20	2 1	21 24	0 1	9 31	1 34	7 27	15 44	23 36	23 32	18 53		n.a.
T 25	20 34	24 27	0 47	14 50	1 4	25 31	1 53	6 16	0 53	3 9	1 25	12 19	2 2	21 25	0 1	9 31	1 34	7 27	15 44	23 36	23 32	18 55		n.a.
F 26	20 46	22 44	0n31	15 22	0 56	25 28	1 54	6 32	0 53	3 9	1 25	12 19	2 2	21 26	0 1	9 31	1 34	7 27	15 43	23 36	23 32	18 57		n.a.
S 27	20 59	19 39	1 46	15 55	0 49	25 25	1 54	6 48	0 53	3 8	1 24	12 18	2 2	21 26	0 1	9 31	1 34	7 27	15 43	23 36	23 32	18 58		n.a.
S 28	21 10	15 34	2 52	16 27	0 41	25 22	1 55	7 3	0 52	3 7	1 24	12 18	2 2	21 27	0 1	9 31	1 34	7 27	15 43	23 36	23 32	19 0		n.a.
M29	21 22	10 53	3 47	16 59	0 34	25 17	1 55	7 19	0 52	3 7	1 24	12 17	2 3	21 28	0 1	9 30	1 34	7 27	15 43	23 36	23 33	19 2		n.a.
T 30	21 s33	5 s52	4n29	17 s30	0n26	25 s12	1 s55	7 s35	0n51	3n 6	1 s23	12n17	2n 3	21 s28	0 s 2	9 s30	1 s34	7 s27	15 s42	23 s36	23 s33	19n 3		n.a.

Julian Day Number = 1680454.5, Delta T = 03h15m45s
Ecliptic obliquity = 23°42'33, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'51, Lahiri = - 5°29'51 Julian Calendar 1 Nov. 113 BCE == Greg. Calendar 29 Oct. 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 113 BCE
geocentric

DECEMBER 113 BCE (-112) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 27 57	6♐59'28	16♓43	21♏26	11♑52	21♎54	10°R56	3♍26	5♐28	9♓37	17°R46	5°R15	6♑30	10♉ 9	n.a.	W 1
T 2	4 31 53	8° 0'43	28°52	22°55	13° 6	22°34	10♈54	3°27	5°32	9°37	17♈45	5♑14	6°27	10°16	n.a.	T 2
F 3	4 35 50	9° 1'58	10♈52	24°25	14°19	23°14	10°53	3°29	5°36	9°37	17°45	5°11	6°24	10°23	n.a.	F 3
S 4	4 39 46	10° 3'13	22°45	25°55	15°32	23°54	10°52	3°30	5°39	9°38	17°44	5° 7	6°20	10°29	n.a.	S 4
S 5	4 43 43	11° 4'27	4♉36	27°25	16°45	24°35	10°51	3°31	5°43	9°38	17°43	5° 2	6°17	10°36	n.a.	S 5
M 6	4 47 40	12° 5'41	16°27	28°56	17°59	25°15	10°50	3°32	5°46	9°39	17°43	4°58	6°14	10°43	n.a.	M 6
T 7	4 51 36	13° 6'55	28°20	0♐27	19°12	25°55	10°50	3°33	5°50	9°39	17°42	4°54	6°11	10°49	n.a.	T 7
W 8	4 55 33	14° 8'09	10♊19	1°59	20°25	26°36	10°50	3°34	5°54	9°39	17°42	4°52	6° 8	10°56	n.a.	W 8
T 9	4 59 29	15° 9'22	22°24	3°31	21°38	27°16	10°D50	3°35	5°57	9°40	17°41	4°50	6° 5	11° 3	n.a.	T 9
F 10	5 3 26	16°10'35	4♋37	5° 3	22°51	27°57	10°50	3°36	6° 1	9°41	17°41	4°D49	6° 1	11° 9	n.a.	F 10
S 11	5 7 22	17°11'48	16°59	6°36	24° 4	28°37	10°50	3°37	6° 4	9°41	17°40	4°50	5°58	11°16	n.a.	S 11
S 12	5 11 19	18°13'00	29°33	8° 9	25°16	29°17	10°51	3°37	6° 8	9°42	17°40	4°51	5°55	11°23	n.a.	S 12
M13	5 15 16	19°14'12	12♌19	9°43	26°29	29°58	10°52	3°37	6°12	9°42	17°39	4°52	5°52	11°30	n.a.	M13
T 14	5 19 12	20°15'24	25°21	11°17	27°42	0♏38	10°53	3°38	6°15	9°43	17°39	4°54	5°49	11°36	n.a.	T 14
W15	5 23 9	21°16'35	8♍40	12°52	28°54	1°19	10°54	3°38	6°19	9°44	17°38	4°54	5°45	11°43	n.a.	W15
T 16	5 27 5	22°17'46	22°18	14°27	0♒ 7	1°59	10°55	3°R38	6°22	9°45	17°38	4°R55	5°42	11°50	n.a.	T 16
F 17	5 31 2	23°18'57	6♎16	16° 2	1°20	2°40	10°57	3°38	6°26	9°45	17°37	4°54	5°39	11°56	n.a.	F 17
S 18	5 34 58	24°20'08	20°33	17°39	2°32	3°20	10°59	3°38	6°29	9°46	17°37	4°54	5°36	12° 3	n.a.	S 18
S 19	5 38 55	25°21'18	5♏ 7	19°15	3°44	4° 1	11° 1	3°37	6°33	9°47	17°37	4°53	5°33	12°10	n.a.	S 19
M20	5 42 51	26°22'28	19°53	20°52	4°57	4°41	11° 3	3°37	6°36	9°48	17°36	4°51	5°30	12°16	n.a.	M20
T 21	5 46 48	27°23'37	4♐45	22°30	6° 9	5°22	11° 6	3°36	6°40	9°49	17°36	4°51	5°26	12°23	n.a.	T 21
W22	5 50 45	28°24'46	19°35	24° 8	7°21	6° 3	11° 8	3°36	6°43	9°50	17°36	4°50	5°23	12°30	n.a.	W22
T 23	5 54 41	29°25'54	4♑17	25°47	8°33	6°43	11°11	3°35	6°46	9°51	17°35	4°D50	5°20	12°37	n.a.	T 23
F 24	5 58 38	0♑27'01	18°41	27°27	9°45	7°24	11°14	3°34	6°50	9°52	17°35	4°50	5°17	12°43	n.a.	F 24
S 25	6 2 34	1°28'07	2♒45	29° 7	10°57	8° 5	11°17	3°33	6°53	9°53	17°35	4°50	5°14	12°50	n.a.	S 25
S 26	6 6 31	2°29'12	16°24	0♑47	12° 9	8°45	11°21	3°32	6°57	9°54	17°35	4°51	5°11	12°57	n.a.	S 26
M27	6 10 27	3°30'16	29°37	2°29	13°20	9°26	11°24	3°31	7° 0	9°55	17°35	4°51	5° 7	13° 3	n.a.	M27
T 28	6 14 24	4°31'18	12♓28	4°11	14°32	10° 7	11°28	3°30	7° 3	9°56	17°34	4°R51	5° 4	13°10	n.a.	T 28
W29	6 18 20	5°32'19	24°57	5°53	15°43	10°47	11°32	3°29	7° 7	9°58	17°34	4°51	5° 1	13°17	n.a.	W29
T 30	6 22 17	6°33'18	7♈10	7°36	16°55	11°28	11°36	3°27	7°10	9°59	17°34	4°D51	4°58	13°23	n.a.	T 30
F 31	6 26 14	7♑34'17	19♈11	9♑20	18♒ 6	12♏ 9	11♈41	3♍26	7♐13	10♓ 0	17♈34	4♑51	4♑55	13♉30	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	21 s43	0 s45	4n57	18 s 1	0n19	25 s 6	1 s56	7 s50	0n51	3n 6	1 s23	12n16	2n 3	21 s29	0 s 2	9 s30	1 s34	7 s27	15 s42	23 s36	23 s33	19n 5			n.a.
T 2	21 53	4n18	5 12	18 31	0 12	24 59	1 56	8 6	0 51	3 6	1 23	12 16	2 4	21 30	0 2	9 30	1 34	7 27	15 42	23 36	23 33	19 7			n.a.
F 3	22 3	9 7	5 12	19 1	0 5	24 51	1 56	8 21	0 50	3 6	1 22	12 16	2 4	21 30	0 2	9 30	1 34	7 27	15 41	23 36	23 33	19 9			n.a.
S 4	22 12	13 34	4 59	19 30	0 s 3	24 43	1 56	8 37	0 50	3 5	1 22	12 16	2 4	21 31	0 2	9 30	1 34	7 27	15 41	23 37	23 33	19 10			n.a.
S 5	22 21	17 28	4 33	19 58	0 10	24 34	1 56	8 52	0 49	3 5	1 22	12 15	2 4	21 32	0 2	9 29	1 34	7 27	15 41	23 37	23 33	19 12			n.a.
M 6	22 30	20 42	3 56	20 25	0 16	24 24	1 56	9 7	0 49	3 5	1 21	12 15	2 5	21 32	0 2	9 29	1 34	7 27	15 41	23 37	23 34	19 14			n.a.
T 7	22 38	23 4	3 8	20 51	0 23	24 13	1 56	9 22	0 48	3 6	1 21	12 15	2 5	21 33	0 2	9 29	1 34	7 27	15 40	23 37	23 34	19 15			n.a.
W 8	22 45	24 24	2 11	21 17	0 30	24 2	1 55	9 38	0 48	3 6	1 21	12 15	2 5	21 33	0 2	9 29	1 34	7 27	15 40	23 37	23 34	19 17			n.a.
T 9	22 52	24 37	1 8	21 41	0 36	23 50	1 55	9 53	0 47	3 6	1 20	12 15	2 5	21 34	0 2	9 29	1 34	7 27	15 40	23 37	23 34	19 19			n.a.
F 10	22 59	23 39	0 1	22 5	0 43	23 38	1 54	10 8	0 47	3 6	1 20	12 15	2 6	21 35	0 2	9 28	1 34	7 27	15 39	23 37	23 34	19 20			n.a.
S 11	23 5	21 31	1 s 7	22 27	0 49	23 24	1 54	10 23	0 47	3 7	1 20	12 15	2 6	21 35	0 2	9 28	1 34	7 27	15 39	23 37	23 34	19 22			n.a.
S 12	23 11	18 19	2 13	22 49	0 55	23 10	1 53	10 38	0 46	3 7	1 19	12 15	2 6	21 36	0 2	9 28	1 34	7 26	15 39	23 37	23 34	19 24			n.a.
M13	23 16	14 13	3 13	23 9	1 1	22 56	1 52	10 53	0 46	3 8	1 19	12 15	2 7	21 37	0 2	9 27	1 34	7 26	15 39	23 37	23 35	19 25			n.a.
T 14	23 21	9 23	4 5	23 29	1 6	22 40	1 51	11 7	0 45	3 9	1 19	12 15	2 7	21 37	0 2	9 27	1 34	7 26	15 38	23 37	23 35	19 27			n.a.
W15	23 25	4 1	4 44	23 47	1 12	22 24	1 50	11 22	0 45	3 10	1 18	12 16	2 7	21 38	0 2	9 27	1 33	7 26	15 38	23 37	23 35	19 29			n.a.
T 16	23 29	1 s39	5 9	24 4	1 17	22 8	1 49	11 37	0 44	3 10	1 18	12 16	2 7	21 39	0 2	9 26	1 33	7 26	15 38	23 37	23 35	19 30			n.a.
F 17	23 32	7 21	5 17	24 20	1 22	21 51	1 48	11 51	0 44	3 11	1 18	12 16	2 8	21 39	0 2	9 26	1 33	7 26	15 37	23 37	23 35	19 32			n.a.
S 18	23 35	12 49	5 5	24 34	1 27	21 33	1 47	12 6	0 43	3 12	1 17	12 16	2 8	21 40	0 2	9 26	1 33	7 26	15 37	23 37	23 35	19 33			n.a.
S 19	23 38	17 40	4 34	24 47	1 31	21 15	1 45	12 20	0 42	3 14	1 17	12 17	2 8	21 40	0 2	9 25	1 33	7 25	15 37	23 37	23 35	19 35			n.a.
M20	23 40	21 30	3 44	24 59	1 36	20 56	1 44	12 34	0 42	3 15	1 17	12 17	2 9	21 41	0 2	9 25	1 33	7 25	15 36	23 37	23 36	19 37			n.a.
T 21	23 41	23 56	2 39	25 9	1 40	20 36	1 42	12 49	0 41	3 16	1 16	12 18	2 9	21 42	0 2	9 25	1 33	7 25	15 36	23 37	23 36	19 38			n.a.
W22	23 42	24 41	1 24	25 18	1 43	20 16	1 41	13 3	0 41	3 17	1 16	12 18	2 9	21 42	0 2	9 24	1 33	7 25	15 36	23 37	23 36	19 40			n.a.
T 23	23 42	23 41	0 3	25 25	1 47	19 55	1 39	13 17	0 40	3 19	1 16	12 19	2 9	21 43	0 2	9 24	1 33	7 25	15 35	23 37	23 36	19 41			n.a.
F 24	23 42	21 8	1n16	25 31	1 50	19 34	1 37	13 31	0 40	3 20	1 15	12 19	2 10	21 43	0 2	9 23	1 33	7 24	15 35	23 37	23 36	19 43			n.a.
S 25	23 42	17 21	2 29	25 35	1 53	19 12	1 35	13 44	0 39	3 22	1 15	12 20	2 10	21 44	0 2	9 23	1 33	7 24	15 35	23 37	23 36	19 45			n.a.
S 26	23 41	12 45	3 31	25 38	1 55	18 50	1 33	13 58	0 39	3 23	1 15	12 20	2 10	21 45	0 2	9 22	1 33	7 24	15 34	23 37	23 36	19 46			n.a.
M27	23 40	7 41	4 20	25 38	1 57	18 28	1 31	14 12	0 38	3 25	1 14	12 21	2 10	21 45	0 2	9 22	1 33	7 24	15 34	23 37	23 36	19 48			n.a.
T 28	23 38	2 26	4 54	25 37	1 59	18 4	1 29	14 25	0 37	3 27	1 14	12 22	2 11	21 46	0 2	9 21	1 33	7 24	15 34	23 37	23 37	19 49			n.a.
W29	23 35	2n45	5 13	25 35	2 0	17 41	1 27	14 39	0 37	3 29	1 14	12 22	2 11	21 46	0 2	9 21	1 33	7 23	15 33	23 37	23 37	19 51			n.a.
T 30	23 33	7 43	5 17	25 30	2 1	17 17	1 24	14 52	0 36	3 31	1 14	12 23	2 11	21 47	0 2	9 20	1 33	7 23	15 33	23 37	23 37	19 52			n.a.
F 31	23 s29	12n19	5n 8	25 s24	2 s 2	16 s52	1 s22	15 s 5	0n36	3n33	1 s13	12n24	2n12	21 s47	0 s 2	9 s20	1 s33	7 s23	15 s33	23 s37	23 s37	19n54			n.a.

Julian Day Number = 1680484.5, Delta T = 03h15m44s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'47, Lahiri = - 5°29'47 Julian Calendar 1 Dec. 113 BCE == Greg. Calendar 28 Nov. 113 BCE

The year -112 astronomical counting style corresponds to year 113 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

JANUARY 112 BCE (-111) JC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 30 10	8♉35'14	1♉ 4	11♉ 5	19♒17	12♏49	11♈45	3°R24	7♐16	10♓ 1	17°R34	4♉51	4♉51	13♉37	n.a.	S 1
S 2	6 34 7	9°36'09	12°54	12°50	20°28	13°30	11°50	3♍22	7°20	10° 3	17♈34	4°52	4°48	13°43	n.a.	S 2
M 3	6 38 3	10°37'03	24°45	14°35	21°39	14°11	11°55	3°20	7°23	10° 4	17°34	4°52	4°45	13°50	n.a.	M 3
T 4	6 42 0	11°37'56	6♊42	16°22	22°50	14°52	12° 0	3°19	7°26	10° 5	17°D34	4°53	4°42	13°57	n.a.	T 4
W 5	6 45 56	12°38'47	18°46	18° 8	24° 1	15°32	12° 5	3°17	7°29	10° 7	17°34	4°54	4°39	14° 4	n.a.	W 5
T 6	6 49 53	13°39'37	1♋ 2	19°56	25°11	16°13	12°11	3°14	7°32	10° 8	17°34	4°R54	4°36	14°10	n.a.	T 6
F 7	6 53 50	14°40'26	13°30	21°43	26°22	16°54	12°16	3°12	7°35	10°10	17°34	4°54	4°32	14°17	n.a.	F 7
S 8	6 57 46	15°41'13	26°11	23°31	27°32	17°35	12°22	3°10	7°38	10°11	17°34	4°53	4°29	14°24	n.a.	S 8
S 9	7 1 43	16°41'58	9♌ 6	25°19	28°42	18°16	12°28	3° 7	7°41	10°13	17°34	4°52	4°26	14°30	n.a.	S 9
M10	7 5 39	17°42'43	22°15	27° 7	29°52	18°57	12°34	3° 5	7°44	10°14	17°34	4°50	4°23	14°37	n.a.	M10
T 11	7 9 36	18°43'26	5♍37	28°55	1♓ 2	19°38	12°40	3° 2	7°47	10°16	17°35	4°48	4°20	14°44	n.a.	T 11
W12	7 13 32	19°44'07	19°12	0♒43	2°12	20°18	12°47	3° 0	7°50	10°17	17°35	4°46	4°17	14°50	n.a.	W12
T 13	7 17 29	20°44'48	2♎59	2°30	3°22	20°59	12°53	2°57	7°53	10°19	17°35	4°45	4°13	14°57	n.a.	T 13
F 14	7 21 25	21°45'27	16°56	4°17	4°31	21°40	13° 0	2°54	7°56	10°20	17°35	4°D44	4°10	15° 4	n.a.	F 14
S 15	7 25 22	22°46'05	1♏ 3	6° 2	5°40	22°21	13° 7	2°51	7°59	10°22	17°35	4°44	4° 7	15°10	n.a.	S 15
S 16	7 29 19	23°46'42	15°18	7°46	6°49	23° 2	13°14	2°48	8° 2	10°24	17°36	4°45	4° 4	15°17	n.a.	S 16
M17	7 33 15	24°47'17	29°39	9°28	7°58	23°43	13°21	2°45	8° 4	10°25	17°36	4°47	4° 1	15°24	n.a.	M17
T 18	7 37 12	25°47'51	14♐ 2	11° 8	9° 7	24°24	13°29	2°42	8° 7	10°27	17°36	4°48	3°57	15°31	n.a.	T 18
W19	7 41 8	26°48'24	28°24	12°45	10°16	25° 5	13°36	2°38	8°10	10°29	17°37	4°R49	3°54	15°37	n.a.	W19
T 20	7 45 5	27°48'55	12♑40	14°19	11°24	25°46	13°44	2°35	8°13	10°31	17°37	4°49	3°51	15°44	n.a.	T 20
F 21	7 49 1	28°49'25	26°46	15°49	12°33	26°27	13°52	2°32	8°15	10°32	17°37	4°47	3°48	15°51	n.a.	F 21
S 22	7 52 58	29°49'53	10♒37	17°14	13°41	27° 8	14° 0	2°28	8°18	10°34	17°38	4°45	3°45	15°57	n.a.	S 22
S 23	7 56 54	0♒50'18	24°10	18°34	14°49	27°49	14° 8	2°24	8°20	10°36	17°38	4°41	3°42	16° 4	n.a.	S 23
M24	8 0 51	1°50'42	7♓22	19°48	15°57	28°30	14°16	2°21	8°23	10°38	17°39	4°37	3°38	16°11	n.a.	M24
T 25	8 4 48	2°51'04	20°14	20°56	17° 4	29°11	14°25	2°17	8°25	10°40	17°39	4°32	3°35	16°17	n.a.	T 25
W26	8 8 44	3°51'24	2♈47	21°56	18°11	29°52	14°33	2°13	8°28	10°42	17°39	4°28	3°32	16°24	n.a.	W26
T 27	8 12 41	4°51'42	15° 2	22°49	19°19	0♐33	14°42	2° 9	8°30	10°44	17°40	4°25	3°29	16°31	n.a.	T 27
F 28	8 16 37	5°51'57	27° 5	23°34	20°25	1°14	14°51	2° 5	8°32	10°46	17°40	4°23	3°26	16°37	n.a.	F 28
S 29	8 20 34	6°52'11	8♉59	24°10	21°32	1°55	15° 0	2° 2	8°35	10°47	17°41	4°D23	3°23	16°44	n.a.	S 29
S 30	8 24 30	7°52'22	20°49	24°37	22°38	2°36	15° 9	1°57	8°37	10°49	17°42	4°24	3°19	16°51	n.a.	S 30
M31	8 28 27	8♒52'32	2♊41	24♒54	23♓45	3♐17	15♈18	1♍53	8♐39	10♓51	17♈42	4♉25	3♉16	16♉57	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s26	16n25	4n45	25s16	2s 2	16s27	1s19	15s18	0n35	3n35	1s13	12n25	2n12	21s48	0s 2	9s19	1s33	7s22	15s32	23s37	23s37	19n56		n.a.
S 2	23 21	19 51	4 10	25 6	2 2	16 2	1 17	15 31	0 34	3 37	1 13	12 26	2 12	21 48	0 2	9 19	1 33	7 22	15 32	23 37	23 37	19 57		n.a.
M 3	23 17	22 29	3 25	24 54	2 1	15 37	1 14	15 44	0 34	3 39	1 12	12 27	2 12	21 49	0 2	9 18	1 33	7 22	15 32	23 37	23 37	19 59		n.a.
T 4	23 12	24 8	2 30	24 40	2 0	15 10	1 11	15 57	0 33	3 42	1 12	12 28	2 13	21 50	0 2	9 18	1 33	7 21	15 31	23 37	23 37	20 0		n.a.
W 5	23 6	24 42	1 28	24 25	1 58	14 44	1 8	16 10	0 32	3 44	1 12	12 29	2 13	21 50	0 2	9 17	1 33	7 21	15 31	23 37	23 38	20 2		n.a.
T 6	23 0	24 4	0 21	24 7	1 55	14 17	1 5	16 22	0 32	3 46	1 11	12 30	2 13	21 51	0 2	9 17	1 33	7 21	15 31	23 37	23 38	20 3		n.a.
F 7	22 53	22 14	0s48	23 47	1 52	13 50	1 2	16 35	0 31	3 49	1 11	12 31	2 13	21 51	0 2	9 16	1 33	7 20	15 30	23 37	23 38	20 5		n.a.
S 8	22 46	19 16	1 55	23 25	1 49	13 23	0 59	16 47	0 30	3 51	1 11	12 32	2 14	21 52	0 2	9 15	1 32	7 20	15 30	23 37	23 38	20 6		n.a.
S 9	22 39	15 19	2 58	23 2	1 45	12 55	0 55	16 59	0 30	3 54	1 10	12 33	2 14	21 52	0 2	9 15	1 32	7 20	15 30	23 37	23 38	20 8		n.a.
M10	22 31	10 35	3 53	22 36	1 40	12 27	0 52	17 11	0 29	3 57	1 10	12 34	2 14	21 53	0 2	9 14	1 32	7 19	15 29	23 37	23 38	20 9		n.a.
T 11	22 23	5 17	4 36	22 9	1 34	11 59	0 49	17 23	0 28	3 59	1 10	12 35	2 14	21 53	0 2	9 14	1 32	7 19	15 29	23 37	23 38	20 11		n.a.
W12	22 14	0s20	5 4	21 39	1 28	11 30	0 45	17 35	0 27	4 2	1 10	12 36	2 15	21 54	0 2	9 13	1 32	7 19	15 28	23 37	23 38	20 12		n.a.
T 13	22 5	6 1	5 16	21 8	1 21	11 2	0 41	17 47	0 27	4 5	1 9	12 38	2 15	21 54	0 2	9 12	1 32	7 18	15 28	23 37	23 38	20 14		n.a.
F 14	21 56	11 28	5 9	20 36	1 13	10 33	0 38	17 58	0 26	4 8	1 9	12 39	2 15	21 55	0 2	9 12	1 32	7 18	15 28	23 37	23 39	20 15		n.a.
S 15	21 46	16 23	4 43	20 1	1 5	10 4	0 34	18 9	0 25	4 11	1 9	12 40	2 15	21 55	0 2	9 11	1 32	7 17	15 27	23 37	23 39	20 17		n.a.
S 16	21 35	20 26	4 0	19 26	0 56	9 34	0 30	18 21	0 25	4 14	1 8	12 42	2 15	21 56	0 2	9 10	1 32	7 17	15 27	23 37	23 39	20 18		n.a.
M17	21 25	23 16	3 2	18 49	0 46	9 4	0 26	18 32	0 24	4 17	1 8	12 43	2 16	21 56	0 2	9 10	1 32	7 17	15 27	23 37	23 39	20 20		n.a.
T 18	21 13	24 36	1 52	18 11	0 35	8 35	0 22	18 43	0 23	4 20	1 8	12 44	2 16	21 56	0 2	9 9	1 32	7 16	15 26	23 37	23 39	20 21		n.a.
W19	21 2	24 17	0 35	17 33	0 24	8 5	0 18	18 54	0 22	4 24	1 8	12 46	2 16	21 57	0 2	9 8	1 32	7 16	15 26	23 37	23 39	20 22		n.a.
T 20	20 50	22 23	0n43	16 54	0 11	7 35	0 14	19 4	0 21	4 27	1 7	12 47	2 16	21 57	0 2	9 8	1 32	7 15	15 26	23 37	23 39	20 24		n.a.
F 21	20 38	19 7	1 58	16 15	0n 2	7 4	0 9	19 15	0 21	4 30	1 7	12 49	2 16	21 58	0 2	9 7	1 32	7 15	15 25	23 37	23 39	20 25		n.a.
S 22	20 25	14 49	3 4	15 36	0 15	6 34	0 5	19 25	0 20	4 34	1 7	12 50	2 17	21 58	0 2	9 6	1 32	7 14	15 25	23 37	23 39	20 27		n.a.
S 23	20 12	9 52	3 59	14 58	0 29	6 3	0 1	19 35	0 19	4 37	1 6	12 52	2 17	21 59	0 2	9 5	1 32	7 14	15 25	23 37	23 39	20 28		n.a.
M24	19 58	4 35	4 39	14 21	0 44	5 33	0n 4	19 45	0 18	4 40	1 6	12 53	2 17	21 59	0 2	9 5	1 32	7 14	15 24	23 38	23 39	20 30		n.a.
T 25	19 45	0n44	5 4	13 45	0 59	5 2	0 8	19 55	0 17	4 44	1 6	12 55	2 17	21 59	0 2	9 4	1 32	7 13	15 24	23 38	23 40	20 31		n.a.
W26	19 30	5 54	5 13	13 11	1 14	4 31	0 13	20 5	0 16	4 48	1 6	12 56	2 17	22 0	0 2	9 3	1 32	7 13	15 24	23 38	23 40	20 32		n.a.
T 27	19 16	10 42	5 8	12 39	1 30	4 0	0 18	20 14	0 16	4 51	1 5	12 58	2 18	22 0	0 2	9 2	1 32	7 12	15 23	23 38	23 40	20 34		n.a.
F 28	19 1	15 2	4 49	12 9	1 46	3 30	0 22	20 24	0 15	4 55	1 5	12 59	2 18	22 1	0 2	9 2	1 32	7 12	15 23	23 38	23 40	20 35		n.a.
S 29	18 46	18 43	4 18	11 43	2 1	2 59	0 27	20 33	0 14	4 59	1 5	13 1	2 18	22 1	0 2	9 1	1 32	7 11	15 23	23 38	23 40	20 37		n.a.
S 30	18 30	21 38	3 36	11 20	2 16	2 28	0 32	20 42	0 13	5 2	1 5	13 3	2 18	22 1	0 2	9 0	1 32	7 11	15 22	23 38	23 40	20 38		n.a.
M31	18s15	23n37	2n45	11s 0	2n31	1s57	0n37	20s51	0n12	5n 6	1s 4	13n 4	2n18	22s 2	0s 2	8s59	1s32	7s10	15s22	23s38	23s40	20n39		n.a.

Julian Day Number = 1680515.5, Delta T = 03h15m44s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'43, Lahiri = - 5°29'43 Julian Calendar 1 Jan. 112 BCE == Greg. Calendar 29 Dec. 113 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

FEBRUARY 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 32 23	9♒52'39	14♊39	25°R 2	24♓51	3♐58	15♈27	1°R49	8♐42	10♓53	17♈43	4♑27	3♑13	17♉ 4	n.a.	T 1
W 2	8 36 20	10°52'44	26°48	25♒ 0	25°56	4°39	15°37	1♏45	8°44	10°55	17°43	4°28	3°10	17°11	n.a.	W 2
T 3	8 40 17	11°52'46	9♋11	24°49	27° 2	5°20	15°46	1°41	8°46	10°57	17°44	4°R28	3° 7	17°18	n.a.	T 3
F 4	8 44 13	12°52'47	21°51	24°30	28° 7	6° 1	15°56	1°37	8°48	11° 0	17°45	4°27	3° 3	17°24	n.a.	F 4
S 5	8 48 10	13°52'45	4♌51	24° 2	29°12	6°43	16° 6	1°32	8°50	11° 2	17°45	4°24	3° 0	17°31	n.a.	S 5
S 6	8 52 6	14°52'42	18° 9	23°26	0♈16	7°24	16°16	1°28	8°52	11° 4	17°46	4°18	2°57	17°38	n.a.	S 6
M 7	8 56 3	15°52'36	1♏44	22°43	1°21	8° 5	16°26	1°23	8°54	11° 6	17°47	4°12	2°54	17°44	n.a.	M 7
T 8	8 59 59	16°52'28	15°34	21°55	2°25	8°46	16°36	1°19	8°56	11° 8	17°47	4° 5	2°51	17°51	n.a.	T 8
W 9	9 3 56	17°52'19	29°34	21° 2	3°28	9°27	16°46	1°15	8°57	11°10	17°48	3°58	2°48	17°58	n.a.	W 9
T 10	9 7 52	18°52'07	13♎42	20° 6	4°32	10° 8	16°57	1°10	8°59	11°12	17°49	3°52	2°44	18° 4	n.a.	T 10
F 11	9 11 49	19°51'54	27°53	19° 9	5°35	10°49	17° 7	1° 6	9° 1	11°14	17°50	3°48	2°41	18°11	n.a.	F 11
S 12	9 15 45	20°51'39	12♏ 4	18°10	6°37	11°30	17°18	1° 1	9° 3	11°16	17°50	3°46	2°38	18°18	n.a.	S 12
S 13	9 19 42	21°51'22	26°13	17°13	7°40	12°11	17°28	0°56	9° 4	11°18	17°51	3°D46	2°35	18°24	n.a.	S 13
M14	9 23 39	22°51'04	10♐19	16°17	8°42	12°53	17°39	0°52	9° 6	11°21	17°52	3°46	2°32	18°31	n.a.	M14
T 15	9 27 35	23°50'44	24°20	15°24	9°43	13°34	17°50	0°47	9° 8	11°23	17°53	3°47	2°29	18°38	n.a.	T 15
W16	9 31 32	24°50'22	8♑15	14°35	10°44	14°15	18° 1	0°43	9° 9	11°25	17°54	3°R48	2°25	18°44	n.a.	W16
T 17	9 35 28	25°49'58	22° 3	13°51	11°45	14°56	18°12	0°38	9°11	11°27	17°55	3°46	2°22	18°51	n.a.	T 17
F 18	9 39 25	26°49'32	5♒43	13°12	12°46	15°37	18°23	0°33	9°12	11°29	17°56	3°42	2°19	18°58	n.a.	F 18
S 19	9 43 21	27°49'04	19°11	12°38	13°46	16°18	18°34	0°28	9°13	11°32	17°57	3°36	2°16	19° 5	n.a.	S 19
S 20	9 47 18	28°48'34	2♓27	12°10	14°46	16°59	18°46	0°24	9°15	11°34	17°57	3°27	2°13	19°11	n.a.	S 20
M21	9 51 14	29°48'01	15°27	11°49	15°45	17°40	18°57	0°19	9°16	11°36	17°58	3°17	2° 9	19°18	n.a.	M21
T 22	9 55 11	0♓47'27	28°11	11°33	16°44	18°21	19° 9	0°14	9°17	11°38	17°59	3° 7	2° 6	19°25	n.a.	T 22
W23	9 59 8	1°46'50	10♈39	11°23	17°42	19° 3	19°20	0°10	9°18	11°41	18° 0	2°57	2° 3	19°31	n.a.	W23
T 24	10 3 4	2°46'11	22°53	11°D20	18°40	19°44	19°32	0° 5	9°19	11°43	18° 1	2°48	2° 0	19°38	n.a.	T 24
F 25	10 7 1	3°45'29	4♉55	11°22	19°37	20°25	19°44	0° 0	9°20	11°45	18° 2	2°42	1°57	19°45	n.a.	F 25
S 26	10 10 57	4°44'45	16°48	11°30	20°34	21° 6	19°55	29♌56	9°21	11°47	18° 3	2°37	1°54	19°51	n.a.	S 26
S 27	10 14 54	5°43'59	28°38	11°43	21°30	21°47	20° 7	29°51	9°22	11°50	18° 4	2°36	1°50	19°58	n.a.	S 27
M28	10 18 50	6♓43'11	10♊29	12♒ 1	22♈26	22♐28	20♈19	29♌46	9♐23	11♓52	18♈ 5	2°D35	1♑47	20♉ 5	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	17s58	24n34	1n46	10s44	2n45	1s26	0n42	21s 0	0n11	5n10	1s 4	13n 6	2n19	22s 2	0s 2	8s59	1s32	7s10	15s22	23s38	23s40	20n41		n.a.
W 2	17 42	24 22	0 42	10 32	2 58	0 55	0 47	21 8	0 10	5 14	1 4	13 8	2 19	22 2	0 2	8 58	1 32	7 9	15 21	23 38	23 40	20 42		n.a.
T 3	17 25	22 58	0s26	10 25	3 10	0 24	0 52	21 17	0 9	5 18	1 4	13 9	2 19	22 3	0 2	8 57	1 32	7 9	15 21	23 38	23 40	20 43		n.a.
F 4	17 8	20 23	1 33	10 21	3 21	0n 7	0 57	21 25	0 8	5 22	1 3	13 11	2 19	22 3	0 2	8 56	1 32	7 8	15 21	23 38	23 40	20 45		n.a.
S 5	16 51	16 43	2 37	10 22	3 30	0 38	1 2	21 33	0 7	5 26	1 3	13 13	2 19	22 3	0 2	8 55	1 32	7 7	15 21	23 38	23 40	20 46		n.a.
S 6	16 33	12 10	3 35	10 26	3 38	1 8	1 8	21 41	0 6	5 30	1 3	13 14	2 19	22 4	0 2	8 55	1 32	7 7	15 20	23 38	23 41	20 47		n.a.
M 7	16 15	6 55	4 21	10 35	3 43	1 39	1 13	21 49	0 5	5 34	1 3	13 16	2 19	22 4	0 2	8 54	1 32	7 6	15 20	23 38	23 41	20 49		n.a.
T 8	15 57	1 16	4 53	10 47	3 47	2 10	1 18	21 56	0 4	5 38	1 2	13 18	2 20	22 4	0 2	8 53	1 32	7 6	15 20	23 39	23 41	20 50		n.a.
W 9	15 39	4s31	5 8	11 2	3 49	2 40	1 24	22 4	0 3	5 42	1 2	13 19	2 20	22 5	0 2	8 52	1 32	7 5	15 19	23 39	23 41	20 51		n.a.
T 10	15 20	10 7	5 4	11 20	3 49	3 11	1 29	22 11	0 2	5 47	1 2	13 21	2 20	22 5	0 2	8 51	1 32	7 5	15 19	23 39	23 41	20 53		n.a.
F 11	15 1	15 13	4 42	11 40	3 46	3 41	1 34	22 18	0 1	5 51	1 2	13 23	2 20	22 5	0 2	8 50	1 32	7 4	15 19	23 39	23 41	20 54		n.a.
S 12	14 42	19 28	4 3	12 2	3 42	4 11	1 40	22 25	0 0	5 55	1 2	13 25	2 20	22 6	0 2	8 50	1 32	7 4	15 18	23 39	23 41	20 55		n.a.
S 13	14 23	22 34	3 9	12 25	3 36	4 41	1 45	22 31	0s 1	5 59	1 1	13 26	2 20	22 6	0 2	8 49	1 32	7 3	15 18	23 39	23 41	20 57		n.a.
M14	14 3	24 17	2 3	12 50	3 28	5 11	1 51	22 38	0 2	6 4	1 1	13 28	2 20	22 6	0 2	8 48	1 32	7 2	15 18	23 39	23 41	20 58		n.a.
T 15	13 43	24 26	0 51	13 14	3 19	5 40	1 56	22 44	0 3	6 8	1 1	13 30	2 20	22 6	0 2	8 47	1 32	7 2	15 18	23 39	23 41	20 59		n.a.
W16	13 23	23 3	0n24	13 39	3 8	6 10	2 2	22 50	0 4	6 13	1 1	13 32	2 20	22 7	0 2	8 46	1 32	7 1	15 17	23 39	23 41	21 1		n.a.
T 17	13 3	20 17	1 37	14 3	2 56	6 39	2 7	22 56	0 5	6 17	1 0	13 34	2 21	22 7	0 2	8 45	1 32	7 1	15 17	23 39	23 41	21 2		n.a.
F 18	12 43	16 26	2 43	14 27	2 43	7 8	2 13	23 1	0 6	6 21	1 0	13 35	2 21	22 7	0 2	8 45	1 32	7 0	15 17	23 39	23 41	21 3		n.a.
S 19	12 22	11 46	3 39	14 49	2 30	7 37	2 19	23 7	0 7	6 26	1 0	13 37	2 21	22 7	0 2	8 44	1 32	7 0	15 17	23 40	23 41	21 4		n.a.
S 20	12 1	6 39	4 22	15 10	2 15	8 5	2 24	23 12	0 8	6 31	1 0	13 39	2 21	22 7	0 2	8 43	1 32	6 59	15 16	23 40	23 41	21 6		n.a.
M21	11 40	1 21	4 50	15 30	2 1	8 34	2 30	23 17	0 9	6 35	1 0	13 41	2 21	22 8	0 2	8 42	1 32	6 58	15 16	23 40	23 41	21 7		n.a.
T 22	11 19	3n54	5 3	15 49	1 46	9 2	2 35	23 22	0 11	6 40	0 59	13 42	2 21	22 8	0 2	8 41	1 32	6 58	15 16	23 40	23 42	21 8		n.a.
W23	10 58	8 53	5 2	16 5	1 32	9 30	2 41	23 27	0 12	6 44	0 59	13 44	2 21	22 8	0 2	8 40	1 32	6 57	15 16	23 41	23 42	21 9		n.a.
T 24	10 36	13 25	4 46	16 20	1 17	9 57	2 47	23 31	0 13	6 49	0 59	13 46	2 21	22 8	0 2	8 39	1 32	6 57	15 15	23 41	23 42	21 11		n.a.
F 25	10 14	17 21	4 18	16 34	1 3	10 25	2 52	23 36	0 14	6 54	0 59	13 47	2 21	22 8	0 2	8 38	1 32	6 56	15 15	23 41	23 42	21 12		n.a.
S 26	9 53	20 33	3 39	16 45	0 48	10 52	2 58	23 40	0 15	6 58	0 59	13 49	2 21	22 9	0 2	8 38	1 32	6 55	15 15	23 41	23 42	21 13		n.a.
S 27	9 31	22 51	2 51	16 55	0 34	11 18	3 4	23 43	0 16	7 3	0 58	13 51	2 21	22 9	0 2	8 37	1 32	6 55	15 15	23 41	23 42	21 14		n.a.
M28	9s 9	24n10	1n55	17s 3	0n21	11n45	3n 9	23s47	0s18	7n 8	0s58	13n53	2n21	22s 9	0s 2	8s36	1s32	6s54	15s14	23s41	23s42	21n15		n.a.

Julian Day Number = 1680546.5, Delta T = 03h15m43s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'39, Lahiri = - 5°29'38 Julian Calendar 1 Feb. 112 BCE == Greg. Calendar 29 Jan. 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

MARCH 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 22 47	7♓42'20	22♊26	12♒24	23♈21	23♐ 9	20♈31	29°R42	9♐24	11♓54	18♈ 7	2♑36	1♑44	20♉11	n.a.	T 1
W 2	10 26 43	8°41'26	4♋36	12°52	24°15	23°50	20°44	29♌37	9°25	11°56	18° 8	2°R36	1°41	20°18	n.a.	W 2
T 3	10 30 40	9°40'31	17° 2	13°24	25° 9	24°31	20°56	29°33	9°26	11°59	18° 9	2°35	1°38	20°25	n.a.	T 3
F 4	10 34 37	10°39'32	29°49	14° 0	26° 2	25°12	21° 8	29°28	9°27	12° 1	18°10	2°32	1°35	20°31	n.a.	F 4
S 5	10 38 33	11°38'32	12♌59	14°40	26°55	25°53	21°20	29°23	9°27	12° 3	18°11	2°27	1°31	20°38	n.a.	S 5
S 6	10 42 30	12°37'29	26°34	15°24	27°47	26°34	21°33	29°19	9°28	12° 5	18°12	2°18	1°28	20°45	n.a.	S 6
M 7	10 46 26	13°36'24	10♍31	16°11	28°38	27°15	21°45	29°14	9°28	12° 8	18°13	2° 8	1°25	20°51	n.a.	M 7
T 8	10 50 23	14°35'17	24°48	17° 2	29°28	27°56	21°58	29°10	9°29	12°10	18°14	1°57	1°22	20°58	n.a.	T 8
W 9	10 54 19	15°34'08	9♎16	17°56	0♉18	28°37	22°10	29° 6	9°29	12°12	18°16	1°46	1°19	21° 5	n.a.	W 9
T 10	10 58 16	16°32'56	23°51	18°53	1° 7	29°18	22°23	29° 1	9°30	12°14	18°17	1°37	1°15	21°11	n.a.	T 10
F 11	11 2 12	17°31'43	8♏25	19°53	1°55	29°59	22°36	28°57	9°30	12°17	18°18	1°30	1°12	21°18	n.a.	F 11
S 12	11 6 9	18°30'29	22°52	20°55	2°42	0♑40	22°49	28°53	9°30	12°19	18°19	1°25	1° 9	21°25	n.a.	S 12
S 13	11 10 5	19°29'12	7♐ 9	22° 0	3°29	1°21	23° 1	28°48	9°31	12°21	18°20	1°23	1° 6	21°31	n.a.	S 13
M14	11 14 2	20°27'54	21°13	23° 8	4°14	2° 2	23°14	28°44	9°31	12°23	18°21	1°D23	1° 3	21°38	n.a.	M14
T 15	11 17 59	21°26'34	5♑ 5	24°18	4°59	2°43	23°27	28°40	9°31	12°26	18°23	1°R23	1° 0	21°45	n.a.	T 15
W16	11 21 55	22°25'12	18°44	25°31	5°42	3°23	23°40	28°36	9°31	12°28	18°24	1°22	0°56	21°51	n.a.	W16
T 17	11 25 52	23°23'48	2♒11	26°45	6°24	4° 4	23°53	28°32	9°R31	12°30	18°25	1°19	0°53	21°58	n.a.	T 17
F 18	11 29 48	24°22'23	15°27	28° 2	7° 6	4°45	24° 6	28°28	9°31	12°32	18°26	1°14	0°50	22° 5	n.a.	F 18
S 19	11 33 45	25°20'55	28°32	29°21	7°46	5°26	24°20	28°24	9°31	12°35	18°28	1° 5	0°47	22°12	n.a.	S 19
S 20	11 37 41	26°19'26	11♓26	0♓42	8°25	6° 7	24°33	28°20	9°31	12°37	18°29	0°54	0°44	22°18	n.a.	S 20
M21	11 41 38	27°17'55	24° 8	2° 4	9° 4	6°47	24°46	28°16	9°31	12°39	18°30	0°41	0°40	22°25	n.a.	M21
T 22	11 45 34	28°16'22	6♈38	3°29	9°40	7°28	24°59	28°13	9°31	12°41	18°32	0°27	0°37	22°32	n.a.	T 22
W23	11 49 31	29°14'47	18°56	4°56	10°16	8° 9	25°13	28° 9	9°30	12°44	18°33	0°14	0°34	22°38	n.a.	W23
T 24	11 53 28	0♈13'10	1♉ 4	6°24	10°50	8°49	25°26	28° 5	9°30	12°46	18°34	0° 2	0°31	22°45	n.a.	T 24
F 25	11 57 24	1°11'31	13° 1	7°55	11°23	9°30	25°39	28° 2	9°30	12°48	18°35	29♐53	0°28	22°52	n.a.	F 25
S 26	12 1 21	2° 9'49	24°52	9°27	11°54	10°11	25°53	27°58	9°29	12°50	18°37	29°47	0°25	22°58	n.a.	S 26
S 27	12 5 17	3° 8'06	6♊40	11° 1	12°24	10°51	26° 6	27°55	9°29	12°52	18°38	29°43	0°21	23° 5	n.a.	S 27
M28	12 9 14	4° 6'21	18°30	12°37	12°53	11°32	26°20	27°51	9°28	12°54	18°39	29°41	0°18	23°12	n.a.	M28
T 29	12 13 10	5° 4'33	0♋26	14°15	13°19	12°12	26°33	27°48	9°28	12°57	18°41	29°41	0°15	23°18	n.a.	T 29
W30	12 17 7	6° 2'44	12°33	15°54	13°44	12°52	26°47	27°45	9°27	12°59	18°42	29°41	0°12	23°25	n.a.	W30
T 31	12 21 3	7♈ 0'52	24♋58	17♓35	14♉ 8	13♑33	27♈ 0	27♌42	9♐26	13♓ 1	18♈43	29♐40	0♑ 9	23♉32	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	8s46	24n23	0n54	17s 9	0n 8	12n11	3n15	23s51	0s19	7n12	0s58	13n54	2n21	22s 9	0s 2	8s35	1s32	6s54	15s14	23s41	23s42	21n17		n.a.	T 1
W 2	8 24	23 27	0s11	17 13	0s 5	12 36	3 20	23 54	0 20	7 17	0 58	13 56	2 21	22 9	0 2	8 34	1 32	6 53	15 14	23 41	23 42	21 18		n.a.	W 2
T 3	8 2	21 21	1 16	17 16	0 17	13 1	3 26	23 57	0 21	7 22	0 58	13 58	2 21	22 9	0 2	8 33	1 32	6 52	15 14	23 41	23 42	21 19		n.a.	T 3
F 4	7 39	18 9	2 19	17 17	0 29	13 26	3 31	24 0	0 23	7 27	0 58	13 59	2 21	22 9	0 2	8 32	1 32	6 52	15 13	23 41	23 42	21 20		n.a.	F 4
S 5	7 17	13 57	3 17	17 16	0 40	13 51	3 37	24 3	0 24	7 32	0 57	14 1	2 21	22 10	0 2	8 32	1 32	6 51	15 13	23 41	23 42	21 21		n.a.	S 5
S 6	6 54	8 57	4 6	17 13	0 51	14 15	3 42	24 5	0 25	7 37	0 57	14 2	2 21	22 10	0 2	8 31	1 32	6 50	15 13	23 41	23 42	21 23		n.a.	S 6
M 7	6 31	3 23	4 41	17 8	1 1	14 39	3 48	24 7	0 27	7 41	0 57	14 4	2 21	22 10	0 3	8 30	1 32	6 50	15 13	23 41	23 42	21 24		n.a.	M 7
T 8	6 8	2s29	4 59	17 2	1 11	15 2	3 53	24 9	0 28	7 46	0 57	14 6	2 21	22 10	0 3	8 29	1 32	6 49	15 13	23 42	23 42	21 25		n.a.	T 8
W 9	5 45	8 17	4 59	16 54	1 20	15 25	3 58	24 11	0 29	7 51	0 57	14 7	2 21	22 10	0 3	8 28	1 32	6 49	15 12	23 42	23 42	21 26		n.a.	W 9
T 10	5 22	13 40	4 39	16 44	1 29	15 47	4 3	24 13	0 31	7 56	0 57	14 9	2 21	22 10	0 3	8 27	1 32	6 48	15 12	23 42	23 42	21 27		n.a.	T 10
F 11	4 59	18 16	4 2	16 33	1 37	16 9	4 9	24 15	0 32	8 1	0 56	14 10	2 21	22 10	0 3	8 26	1 32	6 47	15 12	23 42	23 42	21 28		n.a.	F 11
S 12	4 36	21 44	3 9	16 20	1 44	16 30	4 14	24 16	0 33	8 6	0 56	14 12	2 21	22 10	0 3	8 25	1 32	6 47	15 12	23 42	23 42	21 30		n.a.	S 12
S 13	4 12	23 48	2 5	16 5	1 51	16 51	4 19	24 17	0 35	8 11	0 56	14 13	2 21	22 10	0 3	8 25	1 32	6 46	15 12	23 42	23 42	21 31		n.a.	S 13
M14	3 49	24 18	0 54	15 48	1 58	17 12	4 24	24 18	0 36	8 16	0 56	14 15	2 21	22 10	0 3	8 24	1 32	6 46	15 11	23 42	23 42	21 32		n.a.	M14
T 15	3 26	23 17	0n20	15 30	2 4	17 32	4 28	24 18	0 38	8 21	0 56	14 16	2 21	22 10	0 3	8 23	1 32	6 45	15 11	23 42	23 42	21 33		n.a.	T 15
W16	3 2	20 53	1 30	15 11	2 9	17 51	4 33	24 19	0 39	8 26	0 56	14 17	2 21	22 10	0 3	8 22	1 32	6 44	15 11	23 42	23 42	21 34		n.a.	W16
T 17	2 39	17 23	2 35	14 50	2 14	18 10	4 38	24 19	0 40	8 31	0 55	14 19	2 21	22 10	0 3	8 21	1 32	6 44	15 11	23 42	23 42	21 35		n.a.	T 17
F 18	2 16	13 2	3 30	14 27	2 18	18 28	4 42	24 19	0 42	8 36	0 55	14 20	2 21	22 10	0 3	8 20	1 32	6 43	15 11	23 42	23 42	21 36		n.a.	F 18
S 19	1 52	8 9	4 14	14 2	2 22	18 46	4 47	24 19	0 43	8 41	0 55	14 22	2 21	22 10	0 3	8 19	1 32	6 43	15 11	23 42	23 42	21 37		n.a.	S 19
S 20	1 29	3 0	4 43	13 36	2 25	19 3	4 51	24 19	0 45	8 46	0 55	14 23	2 21	22 10	0 3	8 19	1 32	6 42	15 11	23 42	23 42	21 39		n.a.	S 20
M21	1 5	2n12	4 58	13 9	2 27	19 20	4 55	24 18	0 46	8 51	0 55	14 24	2 21	22 10	0 3	8 18	1 32	6 41	15 10	23 42	23 42	21 40		n.a.	M21
T 22	0 42	7 13	4 58	12 39	2 29	19 36	5 0	24 18	0 48	8 56	0 55	14 25	2 21	22 10	0 3	8 17	1 32	6 41	15 10	23 42	23 42	21 41		n.a.	T 22
W23	0 18	11 52	4 44	12 9	2 31	19 51	5 3	24 17	0 49	9 1	0 55	14 27	2 20	22 10	0 3	8 16	1 32	6 40	15 10	23 43	23 42	21 42		n.a.	W23
T 24	0n 5	15 59	4 18	11 37	2 32	20 6	5 7	24 15	0 51	9 6	0 54	14 28	2 20	22 10	0 3	8 15	1 32	6 40	15 10	23 43	23 42	21 43		n.a.	T 24
F 25	0 29	19 25	3 40	11 3	2 32	20 20	5 11	24 14	0 52	9 11	0 54	14 29	2 20	22 10	0 3	8 14	1 32	6 39	15 10	23 43	23 42	21 44		n.a.	F 25
S 26	0 52	22 0	2 53	10 28	2 32	20 33	5 14	24 13	0 54	9 16	0 54	14 30	2 20	22 10	0 3	8 14	1 32	6 38	15 10	23 43	23 42	21 45		n.a.	S 26
S 27	1 16	23 37	1 59	9 51	2 32	20 45	5 17	24 11	0 56	9 21	0 54	14 31	2 20	22 10	0 3	8 13	1 32	6 38	15 10	23 43	23 43	21 46		n.a.	S 27
M28	1 39	24 11	0 59	9 13	2 30	20 57	5 20	24 9	0 57	9 26	0 54	14 32	2 20	22 10	0 3	8 12	1 32	6 37	15 10	23 43	23 43	21 47		n.a.	M28
T 29	2 2	23 39	0s 4	8 33	2 29	21 8	5 23	24 7	0 59	9 31	0 54	14 33	2 20	22 10	0 3	8 11	1 32	6 37	15 9	23 43	23 43	21 48		n.a.	T 29
W30	2 26	21 59	1 8	7 52	2 26	21 19	5 26	24 5	1 0	9 36	0 54	14 34	2 20	22 10	0 3	8 10	1 32	6 36	15 9	23 43	23 43	21 49		n.a.	W30
T 31	2n49	19n15	2s10	7s 9	2s24	21n28	5n28	24s 2	1s 2	9n41	0s54	14n35	2n20	22s10	0s 3	8s10	1s32	6s35	15s 9	23s43	23s43	21n50		n.a.	T 31

Julian Day Number = 1680574.5, Delta T = 03h15m42s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'35, Lahiri = - 5°29'35 Julian Calendar 1 March 112 BCE == Greg. Calendar 26 Feb. 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

APRIL 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 25 0	7♈58'58	7♌45	19♓18	14♉29	14♊13	27♈14	27°R39	9°R26	13♓ 3	18♈45	29°R37	0♊ 6	23♉38	n.a.	F 1
S 2	12 28 56	8°57'02	20°58	21° 3	14°49	14°53	27°28	27♌36	9♐25	13° 5	18°46	29♐32	0° 2	23°45	n.a.	S 2
S 3	12 32 53	9°55'04	4♍40	22°50	15° 7	15°34	27°41	27°33	9°24	13° 7	18°47	29°24	29♐59	23°52	n.a.	S 3
M 4	12 36 50	10°53'05	18°48	24°38	15°23	16°14	27°55	27°30	9°23	13° 9	18°49	29°15	29°56	23°58	n.a.	M 4
T 5	12 40 46	11°51'03	3♎20	26°28	15°37	16°54	28° 9	27°28	9°22	13°11	18°50	29° 4	29°53	24° 5	n.a.	T 5
W 6	12 44 43	12°48'59	18°10	28°21	15°48	17°34	28°23	27°25	9°21	13°13	18°51	28°53	29°50	24°12	n.a.	W 6
T 7	12 48 39	13°46'54	3♏ 8	0♈14	15°58	18°14	28°36	27°23	9°20	13°15	18°53	28°43	29°46	24°18	n.a.	T 7
F 8	12 52 36	14°44'48	18° 5	2°10	16° 5	18°54	28°50	27°20	9°19	13°17	18°54	28°36	29°43	24°25	n.a.	F 8
S 9	12 56 32	15°42'40	2♐54	4° 8	16°10	19°34	29° 4	27°18	9°18	13°19	18°55	28°32	29°40	24°32	n.a.	S 9
S 10	13 0 29	16°40'31	17°27	6° 7	16°13	20°14	29°18	27°15	9°17	13°21	18°57	28°29	29°37	24°38	n.a.	S 10
M11	13 4 25	17°38'20	1♑41	8° 8	16°R14	20°54	29°32	27°13	9°16	13°23	18°58	28°D29	29°34	24°45	n.a.	M11
T 12	13 8 22	18°36'08	15°36	10°10	16°12	21°34	29°46	27°11	9°15	13°25	19° 0	28°R29	29°31	24°52	n.a.	T 12
W13	13 12 19	19°33'55	29°11	12°14	16° 8	22°13	29°59	27° 9	9°14	13°27	19° 1	28°29	29°27	24°58	n.a.	W13
T 14	13 16 15	20°31'41	12♒28	14°20	16° 1	22°53	0♉14	27° 7	9°12	13°29	19° 2	28°27	29°24	25° 5	n.a.	T 14
F 15	13 20 12	21°29'25	25°30	16°27	15°52	23°33	0°28	27° 6	9°11	13°31	19° 4	28°23	29°21	25°12	n.a.	F 15
S 16	13 24 8	22°27'08	8♓18	18°35	15°41	24°12	0°41	27° 4	9°10	13°33	19° 5	28°16	29°18	25°18	n.a.	S 16
S 17	13 28 5	23°24'50	20°54	20°44	15°27	24°52	0°55	27° 2	9° 8	13°35	19° 6	28° 7	29°15	25°25	n.a.	S 17
M18	13 32 1	24°22'30	3♈19	22°55	15°10	25°31	1° 9	27° 1	9° 7	13°36	19° 8	27°56	29°11	25°32	n.a.	M18
T 19	13 35 58	25°20'09	15°34	25° 5	14°52	26°10	1°23	26°59	9° 5	13°38	19° 9	27°44	29° 8	25°38	n.a.	T 19
W20	13 39 54	26°17'47	27°40	27°16	14°31	26°49	1°37	26°58	9° 4	13°40	19°10	27°33	29° 5	25°45	n.a.	W20
T 21	13 43 51	27°15'24	9♉39	29°28	14° 8	27°28	1°51	26°57	9° 2	13°42	19°12	27°23	29° 2	25°52	n.a.	T 21
F 22	13 47 48	28°12'59	21°32	1♉39	13°43	28° 7	2° 5	26°56	9° 0	13°43	19°13	27°15	28°59	25°58	n.a.	F 22
S 23	13 51 44	29°10'33	3♊20	3°50	13°15	28°46	2°19	26°55	8°59	13°45	19°14	27°10	28°56	26° 5	n.a.	S 23
S 24	13 55 41	0♉ 8'06	15° 7	6° 0	12°46	29°25	2°33	26°54	8°57	13°47	19°16	27° 7	28°52	26°12	n.a.	S 24
M25	13 59 37	1° 5'37	26°56	8° 9	12°15	0♒ 4	2°47	26°53	8°55	13°49	19°17	27°D 6	28°49	26°18	n.a.	M25
T 26	14 3 34	2° 3'06	8♋52	10°17	11°43	0°43	3° 1	26°52	8°54	13°50	19°18	27° 7	28°46	26°25	n.a.	T 26
W27	14 7 30	3° 0'35	20°59	12°23	11° 9	1°21	3°15	26°52	8°52	13°52	19°20	27° 8	28°43	26°32	n.a.	W27
T 28	14 11 27	3°58'02	3♌22	14°28	10°34	2° 0	3°29	26°51	8°50	13°54	19°21	27°R 9	28°40	26°38	n.a.	T 28
F 29	14 15 23	4°55'27	16° 7	16°30	9°58	2°38	3°43	26°51	8°48	13°55	19°22	27° 8	28°37	26°45	n.a.	F 29
S 30	14 19 20	5♉52'51	29♌17	18♉31	9♉21	3♒16	3♉57	26♌51	8♐46	13♓57	19♈24	27♐ 5	28♐33	26♉52	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n12	15n31	3s 7	6s25	2s20	21n37	5n30	24s 0	1s 4	9n46	0s53	14n36	2n20	22s10	0s 3	8s 9	1s32	6s35	15s 9	23s42	23s43	21n51		n.a.
S 2	3 35	10 56	3 56	5 40	2 16	21 44	5 32	23 57	1 5	9 51	0 53	14 37	2 19	22 9	0 3	8 8	1 32	6 34	15 9	23 42	23 43	21 52		n.a.
S 3	3 58	5 40	4 34	4 53	2 12	21 51	5 34	23 54	1 7	9 57	0 53	14 38	2 19	22 9	0 3	8 7	1 32	6 34	15 9	23 42	23 43	21 53		n.a.
M 4	4 21	0s 4	4 56	4 5	2 7	21 57	5 35	23 51	1 9	10 2	0 53	14 39	2 19	22 9	0 3	8 6	1 32	6 33	15 9	23 42	23 43	21 54		n.a.
T 5	4 44	5 56	5 0	3 16	2 1	22 2	5 36	23 47	1 10	10 7	0 53	14 40	2 19	22 9	0 3	8 6	1 32	6 33	15 9	23 42	23 43	21 55		n.a.
W 6	5 7	11 35	4 45	2 25	1 55	22 6	5 36	23 44	1 12	10 12	0 53	14 41	2 19	22 9	0 3	8 5	1 32	6 32	15 9	23 42	23 43	21 56		n.a.
T 7	5 30	16 35	4 9	1 34	1 49	22 10	5 37	23 40	1 14	10 17	0 53	14 41	2 19	22 9	0 3	8 4	1 32	6 32	15 9	23 42	23 43	21 57		n.a.
F 8	5 52	20 33	3 17	0 41	1 42	22 12	5 36	23 36	1 16	10 22	0 53	14 42	2 19	22 9	0 3	8 3	1 32	6 31	15 9	23 42	23 43	21 58		n.a.
S 9	6 15	23 7	2 11	0n13	1 34	22 13	5 36	23 32	1 17	10 27	0 53	14 43	2 19	22 9	0 3	8 3	1 32	6 30	15 9	23 42	23 43	21 59		n.a.
S 10	6 38	24 5	0 58	1 8	1 26	22 12	5 35	23 28	1 19	10 32	0 52	14 43	2 18	22 8	0 3	8 2	1 32	6 30	15 9	23 42	23 42	22 0		n.a.
M11	7 0	23 25	0n17	2 4	1 18	22 11	5 33	23 24	1 21	10 37	0 52	14 44	2 18	22 8	0 3	8 1	1 32	6 29	15 9	23 42	23 42	22 1		n.a.
T 12	7 22	21 18	1 30	3 1	1 9	22 9	5 31	23 19	1 23	10 42	0 52	14 45	2 18	22 8	0 3	8 0	1 32	6 29	15 9	23 42	23 42	22 2		n.a.
W13	7 44	18 1	2 36	3 59	0 59	22 5	5 29	23 15	1 25	10 47	0 52	14 45	2 18	22 8	0 3	8 0	1 32	6 28	15 9	23 42	23 42	22 3		n.a.
T 14	8 6	13 52	3 31	4 57	0 50	22 1	5 26	23 10	1 26	10 52	0 52	14 46	2 18	22 8	0 3	7 59	1 32	6 28	15 9	23 42	23 42	22 4		n.a.
F 15	8 28	9 10	4 15	5 55	0 40	21 55	5 23	23 5	1 28	10 57	0 52	14 46	2 18	22 7	0 3	7 58	1 32	6 27	15 9	23 42	23 42	22 5		n.a.
S 16	8 50	4 9	4 45	6 54	0 30	21 47	5 19	23 0	1 30	11 2	0 52	14 47	2 18	22 7	0 3	7 58	1 33	6 27	15 9	23 42	23 42	22 6		n.a.
S 17	9 12	0n57	5 1	7 53	0 19	21 39	5 14	22 54	1 32	11 7	0 52	14 47	2 17	22 7	0 3	7 57	1 33	6 26	15 9	23 42	23 42	22 7		n.a.
M18	9 33	5 56	5 2	8 52	0 9	21 29	5 9	22 49	1 34	11 12	0 52	14 47	2 17	22 7	0 3	7 56	1 33	6 26	15 9	23 42	23 42	22 8		n.a.
T 19	9 54	10 37	4 49	9 50	0n 2	21 18	5 3	22 43	1 36	11 17	0 52	14 48	2 17	22 7	0 3	7 56	1 33	6 25	15 9	23 41	23 42	22 9		n.a.
W20	10 16	14 50	4 23	10 48	0 12	21 5	4 57	22 37	1 38	11 22	0 51	14 48	2 17	22 6	0 3	7 55	1 33	6 25	15 9	23 41	23 42	22 10		n.a.
T 21	10 37	18 25	3 45	11 46	0 23	20 52	4 50	22 32	1 40	11 27	0 51	14 48	2 17	22 6	0 3	7 54	1 33	6 24	15 9	23 41	23 42	22 11		n.a.
F 22	10 58	21 13	2 58	12 42	0 33	20 37	4 42	22 26	1 42	11 32	0 51	14 49	2 17	22 6	0 3	7 54	1 33	6 24	15 9	23 41	23 42	22 11		n.a.
S 23	11 18	23 5	2 4	13 37	0 43	20 20	4 34	22 19	1 44	11 37	0 51	14 49	2 16	22 6	0 3	7 53	1 33	6 23	15 9	23 41	23 42	22 12		n.a.
S 24	11 39	23 56	1 4	14 30	0 53	20 3	4 25	22 13	1 46	11 42	0 51	14 49	2 16	22 5	0 3	7 52	1 33	6 23	15 9	23 41	23 42	22 13		n.a.
M25	11 59	23 41	0 1	15 22	1 3	19 44	4 16	22 7	1 48	11 47	0 51	14 49	2 16	22 5	0 3	7 52	1 33	6 22	15 9	23 41	23 42	22 14		n.a.
T 26	12 19	22 22	1s 3	16 12	1 12	19 24	4 6	22 0	1 50	11 52	0 51	14 49	2 16	22 5	0 3	7 51	1 33	6 22	15 9	23 41	23 42	22 15		n.a.
W27	12 39	20 0	2 5	17 0	1 20	19 4	3 55	21 54	1 52	11 57	0 51	14 49	2 16	22 5	0 3	7 51	1 33	6 22	15 9	23 41	23 42	22 16		n.a.
T 28	12 59	16 40	3 2	17 46	1 29	18 42	3 44	21 47	1 54	12 1	0 51	14 49	2 16	22 4	0 3	7 50	1 33	6 21	15 9	23 41	23 42	22 17		n.a.
F 29	13 18	12 29	3 53	18 30	1 36	18 19	3 32	21 40	1 56	12 6	0 51	14 49	2 15	22 4	0 3	7 49	1 33	6 21	15 9	23 41	23 42	22 18		n.a.
S 30	13n38	7n36	4s33	19n11	1n43	17n56	3n20	21s33	1s58	12n11	0s51	14n49	2n15	22s 4	0s 3	7s49	1s33	6s20	15s 9	23s41	23s42	22n18		n.a.

Julian Day Number = 1680605.5, Delta T = 03h15m41s
Ecliptic obliquity = 23°42'32, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'31, Lahiri = - 5°29'30 Julian Calendar 1 Apr. 112 BCE == Greg. Calendar 29 March 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

MAY 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 23 17	6♉50'14	12♍55	20♉30	8°R43	3♒54	4♉11	26°R50	8°R44	13♓58	19♈25	27°R 1	28♐30	26♉58	n.a.	S 1
M 2	14 27 13	7°47'35	27° 3	22°26	8♉ 5	4°32	4°25	26♌50	8♐42	14° 0	19°26	26♐55	28°27	27° 5	n.a.	M 2
T 3	14 31 10	8°44'55	11♎37	24°20	7°28	5°10	4°39	26°D50	8°40	14° 1	19°28	26°48	28°24	27°12	n.a.	T 3
W 4	14 35 6	9°42'14	26°33	26°11	6°50	5°48	4°53	26°50	8°38	14° 3	19°29	26°41	28°21	27°18	n.a.	W 4
T 5	14 39 3	10°39'32	11♏43	28° 0	6°13	6°26	5° 7	26°51	8°36	14° 4	19°30	26°35	28°17	27°25	n.a.	T 5
F 6	14 42 59	11°36'50	26°55	29°46	5°36	7° 3	5°21	26°51	8°34	14° 6	19°32	26°30	28°14	27°32	n.a.	F 6
S 7	14 46 56	12°34'06	12♐ 0	1♊30	5° 0	7°40	5°35	26°51	8°32	14° 7	19°33	26°27	28°11	27°38	n.a.	S 7
S 8	14 50 52	13°31'22	26°51	3°11	4°26	8°18	5°49	26°52	8°30	14° 8	19°34	26°D27	28° 8	27°45	n.a.	S 8
M 9	14 54 49	14°28'38	11♑20	4°49	3°53	8°55	6° 3	26°52	8°28	14°10	19°35	26°27	28° 5	27°52	n.a.	M 9
T 10	14 58 46	15°25'52	25°25	6°25	3°21	9°32	6°17	26°53	8°26	14°11	19°37	26°29	28° 2	27°58	n.a.	T 10
W11	15 2 42	16°23'07	9♒ 6	7°57	2°51	10° 9	6°31	26°54	8°24	14°12	19°38	26°30	27°58	28° 5	n.a.	W11
T 12	15 6 39	17°20'21	22°24	9°27	2°23	10°45	6°45	26°55	8°21	14°14	19°39	26°R30	27°55	28°12	n.a.	T 12
F 13	15 10 35	18°17'34	5♓21	10°55	1°57	11°22	6°58	26°56	8°19	14°15	19°40	26°28	27°52	28°18	n.a.	F 13
S 14	15 14 32	19°14'47	18° 0	12°19	1°33	11°58	7°12	26°57	8°17	14°16	19°41	26°25	27°49	28°25	n.a.	S 14
S 15	15 18 28	20°11'59	0♈25	13°40	1°11	12°35	7°26	26°58	8°15	14°17	19°43	26°21	27°46	28°32	n.a.	S 15
M16	15 22 25	21° 9'12	12°38	14°59	0°51	13°11	7°40	26°59	8°12	14°18	19°44	26°15	27°43	28°38	n.a.	M16
T 17	15 26 21	22° 6'24	24°42	16°15	0°34	13°46	7°54	27° 1	8°10	14°19	19°45	26° 9	27°39	28°45	n.a.	T 17
W18	15 30 18	23° 3'35	6♉39	17°28	0°19	14°22	8° 7	27° 2	8° 8	14°20	19°46	26° 3	27°36	28°52	n.a.	W18
T 19	15 34 15	24° 0'46	18°31	18°37	0° 6	14°58	8°21	27° 4	8° 5	14°22	19°47	25°58	27°33	28°58	n.a.	T 19
F 20	15 38 11	24°57'57	0♊19	19°44	29♈56	15°33	8°35	27° 6	8° 3	14°23	19°49	25°54	27°30	29° 5	n.a.	F 20
S 21	15 42 8	25°55'07	12° 7	20°47	29°48	16° 8	8°48	27° 7	8° 1	14°24	19°50	25°52	27°27	29°12	n.a.	S 21
S 22	15 46 4	26°52'17	23°56	21°48	29°43	16°43	9° 2	27° 9	7°58	14°25	19°51	25°D51	27°23	29°18	n.a.	S 22
M23	15 50 1	27°49'26	5♋49	22°44	29°40	17°18	9°16	27°11	7°56	14°25	19°52	25°51	27°20	29°25	n.a.	M23
T 24	15 53 57	28°46'35	17°49	23°38	29°D39	17°52	9°29	27°13	7°54	14°26	19°53	25°53	27°17	29°32	n.a.	T 24
W25	15 57 54	29°43'44	29°59	24°28	29°41	18°26	9°43	27°15	7°51	14°27	19°54	25°54	27°14	29°38	n.a.	W25
T 26	16 1 51	0♊40'52	12♌25	25°14	29°45	19° 0	9°56	27°18	7°49	14°28	19°55	25°56	27°11	29°45	n.a.	T 26
F 27	16 5 47	1°37'59	25° 9	25°56	29°51	19°34	10°10	27°20	7°46	14°29	19°56	25°57	27° 8	29°52	n.a.	F 27
S 28	16 9 44	2°35'06	8♍15	26°35	29°59	20° 8	10°23	27°23	7°44	14°30	19°57	25°R57	27° 4	29°58	n.a.	S 28
S 29	16 13 40	3°32'12	21°47	27° 9	0♉ 9	20°41	10°36	27°25	7°42	14°30	19°58	25°56	27° 1	0♊ 5	n.a.	S 29
M30	16 17 37	4°29'18	5♎47	27°40	0°22	21°14	10°50	27°28	7°39	14°31	19°59	25°54	26°58	0°12	n.a.	M30
T 31	16 21 33	5♊26'24	20♎12	28♊ 6	0♉36	21♒47	11♉ 3	27♌31	7♐37	14♓32	20♈ 0	25♐52	26♐55	0♊18	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	13n57	2n11	4s59	19n50	1n49	17n31	3n 8	21s26	2s 0	12n16	0s51	14n49	2n15	22s 4	0s 3	7s48	1s33	6s20	15s 9	23s40	23s42	22n19			n.a.
M 2	14 16	3s31	5 8	20 26	1 55	17 7	2 55	21 19	2 2	12 21	0 51	14 49	2 15	22 3	0 3	7 48	1 33	6 19	15 9	23 40	23 42	22 20			n.a.
T 3	14 35	9 12	4 58	21 0	2 0	16 42	2 42	21 11	2 4	12 26	0 50	14 49	2 15	22 3	0 3	7 47	1 33	6 19	15 9	23 40	23 42	22 21			n.a.
W 4	14 53	14 30	4 27	21 31	2 4	16 16	2 28	21 4	2 6	12 30	0 50	14 49	2 15	22 3	0 3	7 47	1 33	6 19	15 9	23 40	23 42	22 22			n.a.
T 5	15 11	18 58	3 38	22 0	2 7	15 51	2 14	20 57	2 8	12 35	0 50	14 48	2 14	22 2	0 3	7 46	1 33	6 18	15 9	23 40	23 42	22 23			n.a.
F 6	15 29	22 10	2 33	22 27	2 10	15 25	2 0	20 49	2 10	12 40	0 50	14 48	2 14	22 2	0 3	7 46	1 33	6 18	15 9	23 40	23 42	22 23			n.a.
S 7	15 47	23 46	1 17	22 51	2 12	15 0	1 46	20 41	2 12	12 45	0 50	14 48	2 14	22 2	0 3	7 45	1 33	6 17	15 9	23 40	23 42	22 24			n.a.
S 8	16 4	23 38	0n 2	23 12	2 13	14 35	1 32	20 34	2 15	12 49	0 50	14 47	2 14	22 1	0 3	7 45	1 34	6 17	15 10	23 40	23 42	22 25			n.a.
M 9	16 22	21 53	1 20	23 32	2 14	14 10	1 18	20 26	2 17	12 54	0 50	14 47	2 14	22 1	0 3	7 44	1 34	6 17	15 10	23 40	23 42	22 26			n.a.
T 10	16 39	18 49	2 31	23 49	2 13	13 46	1 4	20 18	2 19	12 59	0 50	14 47	2 13	22 1	0 3	7 44	1 34	6 16	15 10	23 40	23 42	22 27			n.a.
W11	16 55	14 48	3 31	24 4	2 12	13 23	0 50	20 10	2 21	13 3	0 50	14 46	2 13	22 0	0 3	7 43	1 34	6 16	15 10	23 40	23 42	22 27			n.a.
T 12	17 12	10 8	4 18	24 16	2 11	13 0	0 36	20 2	2 23	13 8	0 50	14 46	2 13	22 0	0 3	7 43	1 34	6 16	15 10	23 40	23 42	22 28			n.a.
F 13	17 28	5 9	4 50	24 27	2 8	12 38	0 23	19 54	2 26	13 13	0 50	14 45	2 13	22 0	0 3	7 42	1 34	6 15	15 10	23 40	23 41	22 29			n.a.
S 14	17 44	0 5	5 8	24 35	2 5	12 17	0 9	19 45	2 28	13 17	0 50	14 45	2 13	21 59	0 3	7 42	1 34	6 15	15 10	23 40	23 41	22 30			n.a.
S 15	18 0	4n54	5 10	24 42	2 1	11 58	0s 4	19 37	2 30	13 22	0 50	14 44	2 13	21 59	0 3	7 42	1 34	6 15	15 10	23 39	23 41	22 31			n.a.
M16	18 15	9 37	4 59	24 47	1 56	11 39	0 16	19 29	2 33	13 26	0 50	14 43	2 12	21 59	0 3	7 41	1 34	6 14	15 11	23 39	23 41	22 31			n.a.
T 17	18 30	13 54	4 34	24 50	1 51	11 21	0 29	19 21	2 35	13 31	0 50	14 43	2 12	21 58	0 3	7 41	1 34	6 14	15 11	23 39	23 41	22 32			n.a.
W18	18 45	17 36	3 57	24 51	1 45	11 4	0 41	19 12	2 37	13 35	0 50	14 42	2 12	21 58	0 3	7 40	1 34	6 14	15 11	23 39	23 41	22 33			n.a.
T 19	18 59	20 34	3 10	24 51	1 38	10 49	0 53	19 4	2 39	13 40	0 50	14 41	2 12	21 58	0 3	7 40	1 34	6 13	15 11	23 39	23 41	22 34			n.a.
F 20	19 13	22 39	2 15	24 49	1 31	10 35	1 4	18 56	2 42	13 44	0 49	14 41	2 12	21 57	0 3	7 40	1 34	6 13	15 11	23 39	23 41	22 34			n.a.
S 21	19 27	23 44	1 15	24 45	1 22	10 22	1 15	18 47	2 44	13 49	0 49	14 40	2 12	21 57	0 3	7 39	1 34	6 13	15 11	23 39	23 41	22 35			n.a.
S 22	19 41	23 45	0 11	24 40	1 14	10 10	1 25	18 39	2 47	13 53	0 49	14 39	2 11	21 56	0 3	7 39	1 34	6 13	15 11	23 39	23 41	22 36			n.a.
M23	19 54	22 40	0s55	24 34	1 4	9 59	1 36	18 30	2 49	13 58	0 49	14 38	2 11	21 56	0 3	7 39	1 34	6 12	15 12	23 39	23 41	22 36			n.a.
T 24	20 7	20 34	1 58	24 27	0 54	9 50	1 45	18 22	2 51	14 2	0 49	14 37	2 11	21 56	0 3	7 38	1 34	6 12	15 12	23 39	23 41	22 37			n.a.
W25	20 19	17 30	2 57	24 19	0 43	9 42	1 54	18 13	2 54	14 6	0 49	14 36	2 11	21 55	0 3	7 38	1 34	6 12	15 12	23 39	23 41	22 38			n.a.
T 26	20 31	13 36	3 49	24 9	0 32	9 35	2 3	18 5	2 56	14 11	0 49	14 35	2 11	21 55	0 3	7 38	1 35	6 12	15 12	23 39	23 41	22 39			n.a.
F 27	20 43	9 2	4 31	23 59	0 20	9 29	2 12	17 56	2 59	14 15	0 49	14 34	2 10	21 54	0 3	7 38	1 35	6 11	15 12	23 39	23 41	22 39			n.a.
S 28	20 55	3 56	5 1	23 47	0 7	9 25	2 20	17 48	3 1	14 19	0 49	14 33	2 10	21 54	0 3	7 37	1 35	6 11	15 12	23 39	23 41	22 40			n.a.
S 29	21 6	1s31	5 15	23 35	0s 6	9 21	2 27	17 39	3 3	14 24	0 49	14 32	2 10	21 54	0 3	7 37	1 35	6 11	15 13	23 39	23 40	22 41			n.a.
M30	21 17	7 4	5 11	23 22	0 19	9 19	2 35	17 31	3 6	14 28	0 49	14 31	2 10	21 53	0 3	7 37	1 35	6 11	15 13	23 39	23 40	22 41			n.a.
T 31	21n27	12s24	4s48	23n 8	0s33	9n17	2s42	17s22	3s 8	14n32	0s49	14n30	2n10	21s53	0s 3	7s37	1s35	6s11	15s13	23s39	23s40	22n42			n.a.

Julian Day Number = 1680635.5, Delta T = 03h15m40s
Ecliptic obliquity = 23°42'31, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'27, Lahiri = - 5°29'26 Julian Calendar 1 May 112 BCE == Greg. Calendar 28 Apr. 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

JUNE 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 25 30	6♊23'29	5♏ 0	28♊28	0♉52	22♒19	11♉16	27♌33	7°R34	14♓33	20♈ 1	25°R49	26♐52	0♊25	n.a.	W 1
T 2	16 29 26	7°20'35	20° 4	28°45	1°11	22°52	11°30	27°36	7♐32	14°33	20° 2	25♐47	26°48	0°32	n.a.	T 2
F 3	16 33 23	8°17'40	5♐17	28°58	1°31	23°24	11°43	27°39	7°29	14°34	20° 3	25°45	26°45	0°38	n.a.	F 3
S 4	16 37 20	9°14'45	20°27	29° 6	1°52	23°56	11°56	27°42	7°27	14°34	20° 4	25°D45	26°42	0°45	n.a.	S 4
S 5	16 41 16	10°11'51	5♑27	29°R10	2°16	24°27	12° 9	27°46	7°25	14°35	20° 5	25°45	26°39	0°52	n.a.	S 5
M 6	16 45 13	11° 8'56	20° 7	29° 9	2°41	24°58	12°22	27°49	7°22	14°35	20° 6	25°46	26°36	0°58	n.a.	M 6
T 7	16 49 9	12° 6'03	4♒24	29° 3	3° 8	25°29	12°35	27°52	7°20	14°36	20° 7	25°47	26°33	1° 5	n.a.	T 7
W 8	16 53 6	13° 3'09	18°14	28°53	3°36	26° 0	12°48	27°56	7°17	14°36	20° 8	25°48	26°29	1°12	n.a.	W 8
T 9	16 57 2	14° 0'16	1♓38	28°38	4° 6	26°30	13° 1	27°59	7°15	14°37	20° 9	25°48	26°26	1°18	n.a.	T 9
F 10	17 0 59	14°57'23	14°38	28°19	4°37	27° 0	13°14	28° 3	7°12	14°37	20°10	25°R49	26°23	1°25	n.a.	F 10
S 11	17 4 55	15°54'31	27°16	27°55	5°10	27°30	13°27	28° 6	7°10	14°37	20°11	25°48	26°20	1°32	n.a.	S 11
S 12	17 8 52	16°51'40	9♈37	27°28	5°44	27°59	13°39	28°10	7° 8	14°38	20°11	25°48	26°17	1°38	n.a.	S 12
M13	17 12 49	17°48'49	21°45	26°58	6°19	28°28	13°52	28°14	7° 5	14°38	20°12	25°47	26°14	1°45	n.a.	M13
T 14	17 16 45	18°45'58	3♉42	26°24	6°56	28°56	14° 5	28°18	7° 3	14°38	20°13	25°46	26°10	1°52	n.a.	T 14
W15	17 20 42	19°43'09	15°34	25°48	7°33	29°24	14°17	28°22	7° 0	14°38	20°14	25°45	26° 7	1°58	n.a.	W15
T 16	17 24 38	20°40'20	27°22	25°10	8°12	29°52	14°30	28°26	6°58	14°39	20°15	25°44	26° 4	2° 5	n.a.	T 16
F 17	17 28 35	21°37'32	9♊10	24°30	8°52	0♓20	14°42	28°30	6°56	14°39	20°15	25°44	26° 1	2°11	n.a.	F 17
S 18	17 32 31	22°34'44	21° 0	23°50	9°33	0°46	14°55	28°35	6°53	14°39	20°16	25°D44	25°58	2°18	n.a.	S 18
S 19	17 36 28	23°31'57	2♋54	23° 9	10°15	1°13	15° 7	28°39	6°51	14°39	20°17	25°44	25°54	2°25	n.a.	S 19
M20	17 40 24	24°29'10	14°56	22°30	10°58	1°39	15°19	28°43	6°49	14°39	20°17	25°44	25°51	2°31	n.a.	M20
T 21	17 44 21	25°26'24	27° 6	21°52	11°42	2° 5	15°32	28°48	6°47	14°R39	20°18	25°R44	25°48	2°38	n.a.	T 21
W22	17 48 18	26°23'38	9♌26	21°15	12°26	2°30	15°44	28°52	6°44	14°39	20°19	25°44	25°45	2°45	n.a.	W22
T 23	17 52 14	27°20'53	22° 1	20°42	13°12	2°55	15°56	28°57	6°42	14°39	20°19	25°44	25°42	2°51	n.a.	T 23
F 24	17 56 11	28°18'08	4♍51	20°12	13°58	3°19	16° 8	29° 2	6°40	14°39	20°20	25°44	25°39	2°58	n.a.	F 24
S 25	18 0 7	29°15'24	17°59	19°46	14°45	3°43	16°20	29° 6	6°38	14°39	20°21	25°43	25°35	3° 5	n.a.	S 25
S 26	18 4 4	0♋12'40	1♎28	19°24	15°33	4° 6	16°31	29°11	6°36	14°39	20°21	25°D43	25°32	3°11	n.a.	S 26
M27	18 8 0	1° 9'57	15°18	19° 7	16°22	4°29	16°43	29°16	6°33	14°38	20°22	25°43	25°29	3°18	n.a.	M27
T 28	18 11 57	2° 7'14	29°30	18°56	17°12	4°51	16°55	29°21	6°31	14°38	20°22	25°44	25°26	3°25	n.a.	T 28
W29	18 15 53	3° 4'32	14♏ 2	18°D50	18° 2	5°13	17° 7	29°26	6°29	14°38	20°23	25°44	25°23	3°31	n.a.	W29
T 30	18 19 50	4♋ 1'51	28♏49	18♊50	18♉52	5♓34	17♉18	29♌31	6♐27	14♓38	20♈23	25♐45	25♐20	3♊38	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n37	17s10	4s 5	22n54	0s48	9n17	2s48	17s14	3s11	14n36	0s49	14n29	2n10	21s53	0s 3	7s36	1s35	6s10	15s13	23s38	23s40	22n43		n.a.
T 2	21 47	20 55	3 5	22 40	1 3	9 18	2 54	17 5	3 13	14 40	0 49	14 28	2 9	21 52	0 3	7 36	1 35	6 10	15 13	23 38	23 40	22 43		n.a.
F 3	21 56	23 14	1 51	22 25	1 18	9 19	3 0	16 57	3 16	14 45	0 49	14 26	2 9	21 52	0 3	7 36	1 35	6 10	15 14	23 38	23 40	22 44		n.a.
S 4	22 5	23 51	0 29	22 9	1 33	9 22	3 5	16 49	3 18	14 49	0 49	14 25	2 9	21 51	0 4	7 36	1 35	6 10	15 14	23 38	23 40	22 45		n.a.
S 5	22 14	22 42	0n53	21 54	1 49	9 25	3 10	16 40	3 21	14 53	0 49	14 24	2 9	21 51	0 4	7 36	1 35	6 10	15 14	23 38	23 40	22 45		n.a.
M 6	22 22	20 1	2 11	21 38	2 4	9 30	3 15	16 32	3 24	14 57	0 49	14 23	2 9	21 51	0 4	7 36	1 35	6 10	15 14	23 38	23 40	22 46		n.a.
T 7	22 30	16 10	3 18	21 23	2 20	9 35	3 19	16 24	3 26	15 1	0 49	14 21	2 9	21 50	0 4	7 35	1 35	6 9	15 14	23 38	23 40	22 46		n.a.
W 8	22 37	11 33	4 12	21 7	2 35	9 41	3 23	16 16	3 29	15 5	0 49	14 20	2 8	21 50	0 4	7 35	1 35	6 9	15 15	23 38	23 40	22 47		n.a.
T 9	22 44	6 30	4 49	20 52	2 50	9 47	3 27	16 8	3 31	15 9	0 49	14 19	2 8	21 49	0 4	7 35	1 35	6 9	15 15	23 38	23 40	22 48		n.a.
F 10	22 51	1 20	5 11	20 37	3 5	9 54	3 30	15 59	3 34	15 13	0 49	14 17	2 8	21 49	0 4	7 35	1 35	6 9	15 15	23 38	23 39	22 48		n.a.
S 11	22 57	3n45	5 17	20 22	3 19	10 2	3 34	15 52	3 36	15 17	0 49	14 16	2 8	21 49	0 4	7 35	1 35	6 9	15 15	23 38	23 39	22 49		n.a.
S 12	23 3	8 34	5 8	20 8	3 33	10 11	3 36	15 44	3 39	15 20	0 49	14 14	2 8	21 48	0 4	7 35	1 36	6 9	15 16	23 38	23 39	22 49		n.a.
M13	23 9	12 58	4 45	19 55	3 45	10 20	3 39	15 36	3 42	15 24	0 49	14 13	2 8	21 48	0 4	7 35	1 36	6 9	15 16	23 38	23 39	22 50		n.a.
T 14	23 14	16 48	4 10	19 43	3 57	10 30	3 41	15 28	3 44	15 28	0 49	14 11	2 8	21 47	0 4	7 35	1 36	6 9	15 16	23 38	23 39	22 51		n.a.
W15	23 18	19 57	3 25	19 31	4 8	10 40	3 43	15 21	3 47	15 32	0 49	14 10	2 7	21 47	0 4	7 35	1 36	6 9	15 16	23 38	23 39	22 51		n.a.
T 16	23 23	22 15	2 31	19 20	4 17	10 51	3 45	15 13	3 50	15 36	0 49	14 8	2 7	21 47	0 4	7 35	1 36	6 9	15 17	23 38	23 39	22 52		n.a.
F 17	23 26	23 34	1 31	19 11	4 25	11 2	3 47	15 6	3 52	15 39	0 49	14 6	2 7	21 46	0 4	7 35	1 36	6 9	15 17	23 38	23 39	22 52		n.a.
S 18	23 30	23 50	0 26	19 3	4 31	11 14	3 48	14 59	3 55	15 43	0 49	14 5	2 7	21 46	0 4	7 35	1 36	6 9	15 17	23 38	23 39	22 53		n.a.
S 19	23 33	23 1	0s40	18 56	4 36	11 26	3 49	14 51	3 58	15 47	0 49	14 3	2 7	21 45	0 4	7 35	1 36	6 9	15 17	23 38	23 39	22 53		n.a.
M20	23 36	21 8	1 45	18 50	4 40	11 38	3 50	14 44	4 0	15 50	0 49	14 1	2 7	21 45	0 4	7 35	1 36	6 9	15 18	23 38	23 39	22 54		n.a.
T 21	23 38	18 16	2 46	18 47	4 41	11 51	3 51	14 38	4 3	15 54	0 49	14 0	2 6	21 45	0 4	7 35	1 36	6 9	15 18	23 38	23 38	22 55		n.a.
W22	23 39	14 34	3 40	18 44	4 41	12 4	3 51	14 31	4 6	15 57	0 49	13 58	2 6	21 44	0 4	7 35	1 36	6 9	15 18	23 38	23 38	22 55		n.a.
T 23	23 41	10 10	4 24	18 44	4 39	12 18	3 52	14 24	4 9	16 1	0 49	13 56	2 6	21 44	0 4	7 35	1 36	6 9	15 18	23 38	23 38	22 56		n.a.
F 24	23 42	5 14	4 57	18 45	4 36	12 31	3 52	14 18	4 11	16 4	0 49	13 54	2 6	21 44	0 4	7 35	1 36	6 9	15 19	23 38	23 38	22 56		n.a.
S 25	23 42	0s 1	5 15	18 48	4 31	12 45	3 52	14 11	4 14	16 8	0 49	13 53	2 6	21 43	0 4	7 35	1 36	6 9	15 19	23 38	23 38	22 57		n.a.
S 26	23 42	5 25	5 16	18 53	4 25	12 59	3 52	14 5	4 17	16 11	0 49	13 51	2 6	21 43	0 4	7 35	1 36	6 9	15 19	23 38	23 38	22 57		n.a.
M27	23 42	10 41	4 59	18 59	4 17	13 14	3 51	13 59	4 19	16 15	0 49	13 49	2 6	21 42	0 4	7 36	1 36	6 9	15 19	23 38	23 38	22 58		n.a.
T 28	23 41	15 32	4 24	19 7	4 8	13 28	3 50	13 54	4 22	16 18	0 49	13 47	2 6	21 42	0 4	7 36	1 37	6 9	15 20	23 38	23 38	22 58		n.a.
W29	23 40	19 35	3 32	19 17	3 58	13 43	3 50	13 48	4 25	16 21	0 49	13 45	2 5	21 42	0 4	7 36	1 37	6 9	15 20	23 38	23 38	22 59		n.a.
T 30	23n39	22s28	2s24	19n28	3s47	13n58	3s49	13s42	4s28	16n24	0s49	13n43	2n 5	21s41	0s 4	7s36	1s37	6s 9	15s20	23s38	23s37	22n59		n.a.

Julian Day Number = 1680666.5, Delta T = 03h15m39s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'23, Lahiri = - 5°29'22 Julian Calendar 1 June 112 BCE == Greg. Calendar 29 May 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

JULY 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 23 47	4♋59'10	13♐47	18♊56	19♉44	5♓55	17♉30	29♌37	6°R25	14°R37	20♈24	25♐45	25♐16	3♊45	n.a.	F 1
S 2	18 27 43	5°56'30	28°47	19° 9	20°36	6°15	17°41	29°42	6♐23	14♓37	20°24	25°R46	25°13	3°51	n.a.	S 2
S 3	18 31 40	6°53'51	13♑42	19°28	21°29	6°35	17°52	29°47	6°21	14°37	20°25	25°45	25°10	3°58	n.a.	S 3
M 4	18 35 36	7°51'14	28°23	19°53	22°22	6°54	18° 3	29°53	6°19	14°36	20°25	25°44	25° 7	4° 5	n.a.	M 4
T 5	18 39 33	8°48'37	12♒44	20°24	23°16	7°13	18°15	29°58	6°17	14°36	20°26	25°43	25° 4	4°11	n.a.	T 5
W 6	18 43 29	9°46'02	26°40	21° 2	24°10	7°30	18°26	0♍ 4	6°15	14°35	20°26	25°41	25° 0	4°18	n.a.	W 6
T 7	18 47 26	10°43'27	10♓11	21°46	25° 5	7°48	18°37	0° 9	6°13	14°35	20°26	25°39	24°57	4°25	n.a.	T 7
F 8	18 51 23	11°40'55	23°15	22°37	26° 0	8° 4	18°47	0°15	6°12	14°34	20°27	25°38	24°54	4°31	n.a.	F 8
S 9	18 55 19	12°38'23	5♈57	23°33	26°56	8°20	18°58	0°20	6°10	14°34	20°27	25°37	24°51	4°38	n.a.	S 9
S 10	18 59 16	13°35'53	18°18	24°36	27°53	8°35	19° 9	0°26	6° 8	14°33	20°27	25°D37	24°48	4°45	n.a.	S 10
M11	19 3 12	14°33'25	0♉24	25°45	28°50	8°50	19°19	0°32	6° 6	14°33	20°28	25°38	24°45	4°51	n.a.	M11
T 12	19 7 9	15°30'58	12°20	26°59	29°47	9° 4	19°30	0°38	6° 5	14°32	20°28	25°39	24°41	4°58	n.a.	T 12
W13	19 11 5	16°28'33	24° 9	28°18	0♊45	9°17	19°40	0°44	6° 3	14°31	20°28	25°41	24°38	5° 5	n.a.	W13
T 14	19 15 2	17°26'09	5♊57	29°43	1°43	9°29	19°51	0°50	6° 1	14°31	20°28	25°42	24°35	5°11	n.a.	T 14
F 15	19 18 58	18°23'47	17°47	1♋13	2°42	9°41	20° 1	0°56	6° 0	14°30	20°29	25°43	24°32	5°18	n.a.	F 15
S 16	19 22 55	19°21'27	29°42	2°47	3°41	9°52	20°11	1° 2	5°58	14°29	20°29	25°R43	24°29	5°25	n.a.	S 16
S 17	19 26 52	20°19'07	11♋45	4°26	4°40	10° 2	20°21	1° 8	5°57	14°28	20°29	25°42	24°26	5°31	n.a.	S 17
M18	19 30 48	21°16'50	23°59	6° 8	5°40	10°12	20°31	1°14	5°55	14°27	20°29	25°40	24°22	5°38	n.a.	M18
T 19	19 34 45	22°14'33	6♌24	7°54	6°40	10°20	20°41	1°20	5°54	14°27	20°29	25°37	24°19	5°44	n.a.	T 19
W20	19 38 41	23°12'18	19° 2	9°43	7°41	10°28	20°50	1°26	5°52	14°26	20°29	25°33	24°16	5°51	n.a.	W20
T 21	19 42 38	24°10'05	1♍54	11°34	8°41	10°35	21° 0	1°33	5°51	14°25	20°29	25°28	24°13	5°58	n.a.	T 21
F 22	19 46 34	25° 7'52	14°58	13°28	9°43	10°41	21° 9	1°39	5°50	14°24	20°29	25°24	24°10	6° 4	n.a.	F 22
S 23	19 50 31	26° 5'41	28°17	15°24	10°44	10°47	21°18	1°46	5°48	14°23	20°29	25°20	24° 6	6°11	n.a.	S 23
S 24	19 54 27	27° 3'32	11♎51	17°21	11°46	10°51	21°28	1°52	5°47	14°22	20°R29	25°18	24° 3	6°18	n.a.	S 24
M25	19 58 24	28° 1'23	25°38	19°19	12°48	10°55	21°37	1°58	5°46	14°21	20°29	25°D17	24° 0	6°24	n.a.	M25
T 26	20 2 21	28°59'16	9♏40	21°18	13°50	10°58	21°46	2° 5	5°45	14°20	20°29	25°17	23°57	6°31	n.a.	T 26
W27	20 6 17	29°57'11	23°55	23°18	14°53	11° 0	21°54	2°12	5°44	14°19	20°29	25°19	23°54	6°38	n.a.	W27
T 28	20 10 14	0♌55'06	8♐22	25°17	15°56	11° 1	22° 3	2°18	5°43	14°18	20°29	25°20	23°51	6°44	n.a.	T 28
F 29	20 14 10	1°53'04	22°57	27°16	16°59	11°R 1	22°12	2°25	5°42	14°17	20°29	25°R21	23°47	6°51	n.a.	F 29
S 30	20 18 7	2°51'02	7♑35	29°16	18° 3	11° 1	22°20	2°31	5°41	14°15	20°29	25°20	23°44	6°58	n.a.	S 30
S 31	20 22 3	3♌49'03	22♑11	1♌14	19♊ 7	10♓59	22♉28	2♍38	5♐40	14♓14	20♈29	25♐18	23♐41	7♊ 4	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n37	23 s48	1 s 6	19n41	3 s35	14n13	3 s48	13 s37	4 s30	16n28	0 s49	13n41	2n 5	21 s41	0 s 4	7 s36	1 s37	6 s 9	15 s21	23 s38	23 s37	23n 0		n.a.
S 2	23 34	23 25	0n17	19 55	3 22	14 28	3 46	13 32	4 33	16 31	0 49	13 39	2 5	21 41	0 4	7 36	1 37	6 9	15 21	23 38	23 37	23 0		n.a.
S 3	23 32	21 22	1 38	20 10	3 8	14 43	3 45	13 27	4 36	16 34	0 49	13 37	2 5	21 40	0 4	7 37	1 37	6 9	15 21	23 38	23 37	23 1		n.a.
M 4	23 28	17 55	2 51	20 26	2 54	14 58	3 44	13 22	4 38	16 37	0 49	13 35	2 5	21 40	0 4	7 37	1 37	6 9	15 21	23 38	23 37	23 1		n.a.
T 5	23 25	13 28	3 52	20 42	2 39	15 13	3 42	13 18	4 41	16 40	0 49	13 33	2 5	21 40	0 4	7 37	1 37	6 9	15 22	23 38	23 37	23 2		n.a.
W 6	23 21	8 25	4 37	21 0	2 24	15 28	3 40	13 14	4 44	16 43	0 49	13 31	2 5	21 39	0 4	7 37	1 37	6 10	15 22	23 38	23 37	23 2		n.a.
T 7	23 16	3 8	5 5	21 18	2 9	15 43	3 38	13 10	4 46	16 46	0 49	13 29	2 4	21 39	0 4	7 38	1 37	6 10	15 22	23 38	23 37	23 2		n.a.
F 8	23 11	2n 7	5 16	21 36	1 54	15 58	3 36	13 6	4 49	16 49	0 49	13 27	2 4	21 39	0 4	7 38	1 37	6 10	15 23	23 38	23 37	23 3		n.a.
S 9	23 6	7 8	5 11	21 55	1 39	16 13	3 34	13 2	4 52	16 52	0 49	13 25	2 4	21 38	0 4	7 38	1 37	6 10	15 23	23 38	23 36	23 3		n.a.
S 10	23 0	11 45	4 52	22 13	1 23	16 28	3 32	12 59	4 54	16 55	0 49	13 23	2 4	21 38	0 4	7 38	1 37	6 10	15 23	23 38	23 36	23 4		n.a.
M11	22 54	15 48	4 20	22 30	1 8	16 43	3 29	12 56	4 57	16 58	0 49	13 20	2 4	21 38	0 4	7 39	1 37	6 10	15 23	23 38	23 36	23 4		n.a.
T 12	22 48	19 9	3 37	22 47	0 53	16 58	3 27	12 53	5 0	17 1	0 49	13 18	2 4	21 38	0 4	7 39	1 37	6 10	15 24	23 38	23 36	23 5		n.a.
W13	22 41	21 42	2 46	23 3	0 39	17 12	3 24	12 50	5 2	17 4	0 49	13 16	2 4	21 37	0 4	7 39	1 37	6 11	15 24	23 38	23 36	23 5		n.a.
T 14	22 33	23 18	1 47	23 18	0 25	17 27	3 22	12 48	5 5	17 7	0 49	13 14	2 4	21 37	0 4	7 40	1 37	6 11	15 24	23 38	23 36	23 5		n.a.
F 15	22 26	23 52	0 44	23 31	0 11	17 41	3 19	12 45	5 8	17 9	0 49	13 11	2 4	21 37	0 4	7 40	1 37	6 11	15 25	23 38	23 36	23 6		n.a.
S 16	22 18	23 21	0s22	23 43	0n 2	17 55	3 16	12 44	5 10	17 12	0 49	13 9	2 4	21 36	0 4	7 40	1 38	6 11	15 25	23 38	23 35	23 6		n.a.
S 17	22 9	21 44	1 27	23 53	0 15	18 9	3 13	12 42	5 13	17 15	0 49	13 7	2 4	21 36	0 4	7 41	1 38	6 11	15 25	23 38	23 35	23 7		n.a.
M18	22 0	19 6	2 29	24 1	0 27	18 22	3 10	12 41	5 15	17 17	0 49	13 5	2 3	21 36	0 4	7 41	1 38	6 12	15 26	23 38	23 35	23 7		n.a.
T 19	21 51	15 34	3 25	24 6	0 38	18 36	3 7	12 40	5 17	17 20	0 49	13 2	2 3	21 36	0 4	7 41	1 38	6 12	15 26	23 38	23 35	23 7		n.a.
W20	21 41	11 18	4 12	24 9	0 48	18 49	3 4	12 39	5 20	17 22	0 49	13 0	2 3	21 35	0 4	7 42	1 38	6 12	15 26	23 38	23 35	23 8		n.a.
T 21	21 31	6 27	4 47	24 9	0 58	19 2	3 1	12 38	5 22	17 25	0 49	12 58	2 3	21 35	0 4	7 42	1 38	6 12	15 26	23 38	23 35	23 8		n.a.
F 22	21 21	1 16	5 8	24 7	1 6	19 14	2 57	12 38	5 24	17 27	0 49	12 55	2 3	21 35	0 4	7 43	1 38	6 13	15 27	23 38	23 35	23 8		n.a.
S 23	21 10	4 s 5	5 12	24 2	1 14	19 26	2 54	12 38	5 27	17 30	0 49	12 53	2 3	21 35	0 4	7 43	1 38	6 13	15 27	23 38	23 35	23 9		n.a.
S 24	20 59	9 19	5 0	23 55	1 21	19 38	2 50	12 38	5 29	17 32	0 49	12 50	2 3	21 35	0 4	7 43	1 38	6 13	15 27	23 37	23 34	23 9		n.a.
M25	20 47	14 12	4 30	23 44	1 27	19 50	2 47	12 39	5 31	17 35	0 49	12 48	2 3	21 34	0 4	7 44	1 38	6 13	15 28	23 37	23 34	23 9		n.a.
T 26	20 35	18 24	3 44	23 31	1 32	20 1	2 43	12 39	5 33	17 37	0 49	12 46	2 3	21 34	0 4	7 44	1 38	6 14	15 28	23 37	23 34	23 10		n.a.
W27	20 23	21 36	2 43	23 16	1 37	20 12	2 40	12 41	5 35	17 39	0 49	12 43	2 3	21 34	0 4	7 45	1 38	6 14	15 28	23 37	23 34	23 10		n.a.
T 28	20 11	23 27	1 31	22 58	1 40	20 22	2 36	12 42	5 37	17 41	0 49	12 41	2 3	21 34	0 4	7 45	1 38	6 14	15 28	23 37	23 34	23 10		n.a.
F 29	19 58	23 44	0 13	22 38	1 43	20 32	2 32	12 43	5 39	17 44	0 49	12 38	2 3	21 34	0 4	7 46	1 38	6 15	15 29	23 38	23 34	23 11		n.a.
S 30	19 45	22 23	1n 6	22 15	1 45	20 42	2 28	12 45	5 41	17 46	0 50	12 36	2 3	21 33	0 4	7 46	1 38	6 15	15 29	23 38	23 33	23 11		n.a.
S 31	19n31	19 s32	2n21	21n50	1n47	20n51	2 s25	12 s47	5 s42	17n48	0 s50	12n33	2n 3	21 s33	0 s 4	7 s47	1 s38	6 s15	15 s29	23 s37	23 s33	23n11		n.a.

Julian Day Number = 1680696.5, Delta T = 03h15m38s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'18, Lahiri = - 5°29'18 Julian Calendar 1 July 112 BCE == Greg. Calendar 28 June 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

AUGUST 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 26 0	4♌47'05	6♒39	3♌12	20♊11	10°R57	22♉37	2♍45	5°R39	14°R13	20°R29	25°R14	23♐38	7♊11	n.a.	M 1
T 2	20 29 56	5°45'08	20°52	5° 9	21°15	10♓54	22°45	2°52	5♐38	14♓12	20♈29	25♐ 8	23°35	7°18	n.a.	T 2
W 3	20 33 53	6°43'14	4♓45	7° 5	22°20	10°50	22°53	2°59	5°37	14°11	20°28	25° 2	23°32	7°24	n.a.	W 3
T 4	20 37 50	7°41'21	18°16	9° 1	23°24	10°45	23° 0	3° 5	5°37	14° 9	20°28	24°55	23°28	7°31	n.a.	T 4
F 5	20 41 46	8°39'30	1♈22	10°55	24°30	10°40	23° 8	3°12	5°36	14° 8	20°28	24°49	23°25	7°38	n.a.	F 5
S 6	20 45 43	9°37'42	14° 5	12°48	25°35	10°33	23°15	3°19	5°35	14° 7	20°28	24°44	23°22	7°44	n.a.	S 6
S 7	20 49 39	10°35'55	26°29	14°40	26°40	10°26	23°23	3°26	5°35	14° 5	20°27	24°41	23°19	7°51	n.a.	S 7
M 8	20 53 36	11°34'11	8♉35	16°31	27°46	10°18	23°30	3°33	5°34	14° 4	20°27	24°D40	23°16	7°58	n.a.	M 8
T 9	20 57 32	12°32'29	20°31	18°21	28°52	10° 9	23°37	3°40	5°34	14° 3	20°27	24°40	23°12	8° 4	n.a.	T 9
W10	21 1 29	13°30'49	2♊20	20° 9	29°58	9°59	23°44	3°47	5°33	14° 1	20°27	24°41	23° 9	8°11	n.a.	W10
T 11	21 5 25	14°29'12	14° 9	21°57	1♋ 5	9°49	23°51	3°54	5°33	14° 0	20°26	24°42	23° 6	8°17	n.a.	T 11
F 12	21 9 22	15°27'36	26° 1	23°43	2°11	9°38	23°57	4° 1	5°32	13°59	20°26	24°R43	23° 3	8°24	n.a.	F 12
S 13	21 13 19	16°26'03	8♋ 1	25°28	3°18	9°26	24° 4	4° 8	5°32	13°57	20°25	24°42	23° 0	8°31	n.a.	S 13
S 14	21 17 15	17°24'32	20°14	27°12	4°25	9°13	24°10	4°16	5°32	13°56	20°25	24°39	22°57	8°37	n.a.	S 14
M15	21 21 12	18°23'02	2♌41	28°55	5°32	9° 0	24°16	4°23	5°32	13°54	20°25	24°33	22°53	8°44	n.a.	M15
T 16	21 25 8	19°21'35	15°24	0♍37	6°40	8°46	24°22	4°30	5°32	13°53	20°24	24°26	22°50	8°51	n.a.	T 16
W17	21 29 5	20°20'10	28°23	2°18	7°47	8°31	24°28	4°37	5°31	13°51	20°24	24°16	22°47	8°57	n.a.	W17
T 18	21 33 1	21°18'47	11♍37	3°58	8°55	8°16	24°34	4°44	5°D31	13°50	20°23	24° 7	22°44	9° 4	n.a.	T 18
F 19	21 36 58	22°17'26	25° 5	5°37	10° 3	8° 0	24°39	4°51	5°31	13°48	20°23	23°57	22°41	9°11	n.a.	F 19
S 20	21 40 54	23°16'07	8♎44	7°14	11°11	7°44	24°45	4°59	5°32	13°47	20°22	23°49	22°38	9°17	n.a.	S 20
S 21	21 44 51	24°14'49	22°32	8°51	12°19	7°27	24°50	5° 6	5°32	13°45	20°22	23°42	22°34	9°24	n.a.	S 21
M22	21 48 47	25°13'33	6♏28	10°27	13°28	7°10	24°55	5°13	5°32	13°44	20°21	23°39	22°31	9°31	n.a.	M22
T 23	21 52 44	26°12'20	20°30	12° 1	14°36	6°53	24°59	5°20	5°32	13°42	20°20	23°D37	22°28	9°37	n.a.	T 23
W24	21 56 41	27°11'08	4♐36	13°35	15°45	6°35	25° 4	5°28	5°32	13°40	20°20	23°37	22°25	9°44	n.a.	W24
T 25	22 0 37	28° 9'58	18°46	15° 8	16°54	6°18	25° 9	5°35	5°33	13°39	20°19	23°R38	22°22	9°51	n.a.	T 25
F 26	22 4 34	29° 8'49	2♑58	16°39	18° 3	5°59	25°13	5°42	5°33	13°37	20°19	23°37	22°18	9°57	n.a.	F 26
S 27	22 8 30	0♍ 7'43	17°11	18°10	19°12	5°41	25°17	5°50	5°33	13°36	20°18	23°35	22°15	10° 4	n.a.	S 27
S 28	22 12 27	1° 6'38	1♒22	19°40	20°22	5°23	25°21	5°57	5°34	13°34	20°17	23°31	22°12	10°11	n.a.	S 28
M29	22 16 23	2° 5'35	15°26	21° 9	21°31	5° 4	25°25	6° 4	5°34	13°32	20°16	23°23	22° 9	10°17	n.a.	M29
T 30	22 20 20	3° 4'35	29°20	22°37	22°41	4°46	25°28	6°12	5°35	13°31	20°16	23°13	22° 6	10°24	n.a.	T 30
W31	22 24 16	4♍ 3'36	12♓58	24♍ 3	23♋51	4♓28	25♉32	6♍19	5♐36	13♓29	20♈15	23♐ 2	22♐ 3	10♊30	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
M 1	19n17	15s30	3n26	21n24	1n47	21n 0	2s21	12s50	5s44	17n50	0s50	12n31	2n 3	21s33	0s 4	7s47	1s38	6s16	15s30	23s37	23s33	23n12			n.a.
T 2	19 3	10 39	4 16	20 56	1 47	21 9	2 17	12 52	5 46	17 52	0 50	12 28	2 2	21 33	0 4	7 48	1 38	6 16	15 30	23 37	23 33	23 12			n.a.
W 3	18 48	5 22	4 51	20 26	1 47	21 16	2 13	12 55	5 47	17 54	0 50	12 26	2 2	21 33	0 4	7 48	1 38	6 16	15 30	23 37	23 33	23 12			n.a.
T 4	18 33	0n 1	5 7	19 54	1 45	21 24	2 9	12 58	5 48	17 56	0 50	12 23	2 2	21 33	0 4	7 49	1 38	6 17	15 30	23 37	23 33	23 12			n.a.
F 5	18 18	5 14	5 7	19 21	1 44	21 31	2 5	13 2	5 50	17 58	0 50	12 20	2 2	21 33	0 4	7 49	1 38	6 17	15 31	23 36	23 33	23 13			n.a.
S 6	18 2	10 6	4 52	18 47	1 41	21 37	2 1	13 5	5 51	18 0	0 50	12 18	2 2	21 33	0 4	7 50	1 39	6 17	15 31	23 36	23 32	23 13			n.a.
S 7	17 47	14 24	4 23	18 11	1 39	21 43	1 57	13 9	5 52	18 1	0 50	12 15	2 2	21 32	0 4	7 50	1 39	6 18	15 31	23 36	23 32	23 13			n.a.
M 8	17 30	18 3	3 43	17 35	1 35	21 49	1 53	13 13	5 53	18 3	0 50	12 13	2 2	21 32	0 4	7 51	1 39	6 18	15 32	23 36	23 32	23 13			n.a.
T 9	17 14	20 52	2 54	16 57	1 32	21 54	1 48	13 17	5 53	18 5	0 50	12 10	2 2	21 32	0 4	7 52	1 39	6 18	15 32	23 36	23 32	23 14			n.a.
W10	16 57	22 47	1 58	16 19	1 28	21 58	1 44	13 21	5 54	18 7	0 50	12 7	2 2	21 32	0 4	7 52	1 39	6 19	15 32	23 36	23 32	23 14			n.a.
T 11	16 40	23 42	0 57	15 40	1 23	22 2	1 40	13 26	5 55	18 8	0 50	12 5	2 2	21 32	0 4	7 53	1 39	6 19	15 32	23 36	23 32	23 14			n.a.
F 12	16 23	23 32	0s 7	15 0	1 19	22 5	1 36	13 30	5 55	18 10	0 50	12 2	2 2	21 32	0 4	7 53	1 39	6 19	15 33	23 36	23 31	23 14			n.a.
S 13	16 5	22 17	1 11	14 20	1 14	22 8	1 32	13 35	5 55	18 11	0 50	12 0	2 2	21 32	0 4	7 54	1 39	6 20	15 33	23 36	23 31	23 15			n.a.
S 14	15 47	19 58	2 13	13 39	1 8	22 10	1 28	13 40	5 55	18 13	0 50	11 57	2 2	21 32	0 4	7 54	1 39	6 20	15 33	23 36	23 31	23 15			n.a.
M15	15 29	16 42	3 9	12 58	1 3	22 12	1 24	13 45	5 55	18 14	0 50	11 54	2 2	21 32	0 4	7 55	1 39	6 21	15 34	23 36	23 31	23 15			n.a.
T 16	15 11	12 37	3 58	12 16	0 57	22 13	1 19	13 50	5 55	18 16	0 50	11 52	2 2	21 32	0 4	7 56	1 39	6 21	15 34	23 35	23 31	23 15			n.a.
W17	14 52	7 53	4 35	11 34	0 51	22 13	1 15	13 56	5 55	18 17	0 50	11 49	2 2	21 32	0 4	7 56	1 39	6 21	15 34	23 35	23 31	23 16			n.a.
T 18	14 33	2 42	4 58	10 52	0 45	22 13	1 11	14 1	5 54	18 19	0 50	11 46	2 2	21 32	0 4	7 57	1 39	6 22	15 34	23 35	23 30	23 16			n.a.
F 19	14 14	2s41	5 5	10 9	0 38	22 13	1 7	14 6	5 53	18 20	0 50	11 44	2 2	21 32	0 4	7 57	1 39	6 22	15 35	23 34	23 30	23 16			n.a.
S 20	13 55	8 0	4 55	9 26	0 32	22 11	1 3	14 12	5 52	18 21	0 50	11 41	2 2	21 32	0 4	7 58	1 39	6 23	15 35	23 34	23 30	23 16			n.a.
S 21	13 35	12 59	4 27	8 44	0 25	22 9	0 59	14 17	5 51	18 22	0 51	11 38	2 2	21 32	0 4	7 59	1 39	6 23	15 35	23 33	23 30	23 16			n.a.
M22	13 15	17 21	3 44	8 1	0 18	22 7	0 55	14 22	5 50	18 23	0 51	11 36	2 2	21 32	0 4	7 59	1 39	6 24	15 35	23 33	23 30	23 16			n.a.
T 23	12 55	20 45	2 47	7 18	0 11	22 4	0 50	14 28	5 49	18 25	0 51	11 33	2 2	21 32	0 4	8 0	1 39	6 24	15 36	23 33	23 29	23 17			n.a.
W24	12 35	22 56	1 40	6 35	0 4	22 0	0 46	14 33	5 47	18 26	0 51	11 30	2 2	21 32	0 4	8 1	1 39	6 25	15 36	23 33	23 29	23 17			n.a.
T 25	12 15	23 39	0 26	5 52	0s 3	21 56	0 42	14 38	5 45	18 27	0 51	11 27	2 2	21 32	0 4	8 1	1 39	6 25	15 36	23 33	23 29	23 17			n.a.
F 26	11 54	22 51	0n50	5 10	0 11	21 51	0 38	14 43	5 43	18 28	0 51	11 25	2 2	21 32	0 4	8 2	1 39	6 25	15 36	23 33	23 29	23 17			n.a.
S 27	11 33	20 34	2 2	4 27	0 18	21 45	0 34	14 48	5 41	18 29	0 51	11 22	2 2	21 32	0 4	8 3	1 39	6 26	15 36	23 33	23 29	23 17			n.a.
S 28	11 12	17 3	3 7	3 45	0 25	21 39	0 30	14 53	5 39	18 30	0 51	11 19	2 2	21 32	0 4	8 3	1 39	6 26	15 37	23 33	23 29	23 17			n.a.
M29	10 51	12 35	3 59	3 3	0 33	21 32	0 26	14 58	5 37	18 30	0 51	11 17	2 2	21 33	0 4	8 4	1 39	6 27	15 37	23 32	23 28	23 17			n.a.
T 30	10 29	7 31	4 36	2 21	0 40	21 25	0 22	15 2	5 34	18 31	0 51	11 14	2 2	21 33	0 4	8 5	1 39	6 27	15 37	23 32	23 28	23 18			n.a.
W31	10n 8	2s11	4n57	1n39	0s48	21n17	0s18	15s 7	5s32	18n32	0s51	11n11	2n 2	21s33	0s 4	8s 5	1s39	6s28	15s37	23s31	23s28	23n18			n.a.

Julian Day Number = 1680727.5, Delta T = 03h15m37s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'14, Lahiri = - 5°29'14 Julian Calendar 1 Aug. 112 BCE == Greg. Calendar 29 July 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

SEPTEMBER 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 28 13	5♍ 2'39	26♓19	25♍29	25♋ 1	4°R 9	25♉35	6♍26	5♐36	13°R27	20°R14	22°R50	21♐59	10♊37	n.a.	T 1
F 2	22 32 10	6° 1'45	9♈20	26°54	26°11	3♓51	25°38	6°34	5°37	13♓26	20♈14	22♐39	21°56	10°44	n.a.	F 2
S 3	22 36 6	7° 0'53	22° 0	28°18	27°21	3°33	25°41	6°41	5°38	13°24	20°13	22°30	21°53	10°50	n.a.	S 3
S 4	22 40 3	8° 0'04	4♉22	29°41	28°31	3°15	25°43	6°48	5°39	13°23	20°12	22°23	21°50	10°57	n.a.	S 4
M 5	22 43 59	8°59'16	16°28	1♎ 3	29°42	2°58	25°46	6°56	5°40	13°21	20°11	22°18	21°47	11° 4	n.a.	M 5
T 6	22 47 56	9°58'32	28°24	2°23	0♌52	2°41	25°48	7° 3	5°41	13°19	20°10	22°16	21°43	11°10	n.a.	T 6
W 7	22 51 52	10°57'49	10♊13	3°42	2° 3	2°24	25°50	7°10	5°42	13°18	20°10	22°D15	21°40	11°17	n.a.	W 7
T 8	22 55 49	11°57'09	22° 1	5° 0	3°14	2° 7	25°52	7°18	5°43	13°16	20° 9	22°R16	21°37	11°24	n.a.	T 8
F 9	22 59 45	12°56'32	3♋54	6°17	4°25	1°51	25°54	7°25	5°44	13°14	20° 8	22°15	21°34	11°30	n.a.	F 9
S 10	23 3 42	13°55'57	15°57	7°33	5°36	1°36	25°55	7°32	5°45	13°12	20° 7	22°13	21°31	11°37	n.a.	S 10
S 11	23 7 39	14°55'24	28°15	8°47	6°47	1°21	25°57	7°40	5°46	13°11	20° 6	22° 9	21°28	11°44	n.a.	S 11
M12	23 11 35	15°54'54	10♌52	9°59	7°59	1° 6	25°58	7°47	5°47	13° 9	20° 5	22° 2	21°24	11°50	n.a.	M12
T 13	23 15 32	16°54'26	23°49	11° 9	9°10	0°52	25°59	7°54	5°48	13° 7	20° 4	21°52	21°21	11°57	n.a.	T 13
W14	23 19 28	17°54'00	7♍ 7	12°18	10°22	0°39	25°59	8° 1	5°50	13° 6	20° 3	21°40	21°18	12° 4	n.a.	W14
T 15	23 23 25	18°53'36	20°44	13°25	11°33	0°26	26° 0	8° 9	5°51	13° 4	20° 2	21°27	21°15	12°10	n.a.	T 15
F 16	23 27 21	19°53'14	4♎38	14°29	12°45	0°14	26° 0	8°16	5°53	13° 2	20° 1	21°15	21°12	12°17	n.a.	F 16
S 17	23 31 18	20°52'54	18°44	15°32	13°57	0° 3	26°R 0	8°23	5°54	13° 1	20° 1	21° 4	21° 9	12°23	n.a.	S 17
S 18	23 35 14	21°52'37	2♏57	16°31	15° 9	29♒52	26° 0	8°30	5°56	12°59	20° 0	20°55	21° 5	12°30	n.a.	S 18
M19	23 39 11	22°52'21	17°12	17°28	16°21	29°42	26° 0	8°38	5°57	12°57	19°59	20°50	21° 2	12°37	n.a.	M19
T 20	23 43 7	23°52'07	1♐26	18°21	17°33	29°33	25°59	8°45	5°59	12°56	19°58	20°47	20°59	12°43	n.a.	T 20
W21	23 47 4	24°51'55	15°36	19°11	18°45	29°25	25°58	8°52	6° 1	12°54	19°57	20°46	20°56	12°50	n.a.	W21
T 22	23 51 1	25°51'45	29°41	19°58	19°58	29°18	25°58	8°59	6° 2	12°53	19°56	20°46	20°53	12°57	n.a.	T 22
F 23	23 54 57	26°51'36	13♑40	20°40	21°10	29°11	25°56	9° 6	6° 4	12°51	19°55	20°46	20°49	13° 3	n.a.	F 23
S 24	23 58 54	27°51'30	27°33	21°17	22°23	29° 5	25°55	9°13	6° 6	12°49	19°54	20°43	20°46	13°10	n.a.	S 24
S 25	0 2 50	28°51'25	11♒20	21°49	23°35	29° 0	25°54	9°20	6° 8	12°48	19°52	20°38	20°43	13°17	n.a.	S 25
M26	0 6 47	29°51'21	24°58	22°15	24°48	28°56	25°52	9°27	6°10	12°46	19°51	20°30	20°40	13°23	n.a.	M26
T 27	0 10 43	0♎51'20	8♓26	22°35	26° 1	28°52	25°50	9°34	6°12	12°45	19°50	20°19	20°37	13°30	n.a.	T 27
W28	0 14 40	1°51'20	21°42	22°48	27°14	28°50	25°48	9°41	6°14	12°43	19°49	20° 6	20°34	13°37	n.a.	W28
T 29	0 18 36	2°51'22	4♈45	22°R54	28°27	28°48	25°45	9°48	6°16	12°41	19°48	19°53	20°30	13°43	n.a.	T 29
F 30	0 22 33	3♎51'27	17♈32	22♎52	29♌40	28♒47	25♉43	9♍55	6♐18	12♓40	19♈47	19♐41	20♐27	13♊50	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n46	3n 7	5n 1	0n58	0s55	21n 8	0s15	15s11	5s29	18n33	0s51	11n 8	2n 2	21s33	0s 4	8s 6	1s39	6s28	15s38	23s31	23s28	23n18		n.a.
F 2	9 24	8 10	4 49	0 17	1 3	20 59	0 11	15 15	5 26	18 33	0 51	11 6	2 2	21 33	0 4	8 7	1 39	6 29	15 38	23 30	23 28	23 18		n.a.
S 3	9 2	12 43	4 23	0s23	1 10	20 49	0 7	15 19	5 23	18 34	0 51	11 3	2 2	21 33	0 4	8 7	1 39	6 29	15 38	23 30	23 27	23 18		n.a.
S 4	8 40	16 39	3 45	1 4	1 18	20 38	0 3	15 22	5 19	18 35	0 51	11 0	2 2	21 33	0 4	8 8	1 39	6 30	15 38	23 29	23 27	23 18		n.a.
M 5	8 17	19 47	2 58	1 43	1 25	20 27	0n 1	15 26	5 16	18 35	0 51	10 58	2 3	21 34	0 4	8 8	1 39	6 30	15 38	23 29	23 27	23 18		n.a.
T 6	7 55	22 2	2 3	2 22	1 33	20 15	0 4	15 29	5 13	18 36	0 51	10 55	2 3	21 34	0 4	8 9	1 39	6 31	15 39	23 29	23 27	23 18		n.a.
W 7	7 32	23 17	1 4	3 1	1 40	20 3	0 8	15 32	5 9	18 36	0 51	10 52	2 3	21 34	0 4	8 10	1 39	6 31	15 39	23 29	23 27	23 18		n.a.
T 8	7 9	23 29	0 1	3 39	1 47	19 50	0 11	15 34	5 5	18 36	0 51	10 49	2 3	21 34	0 4	8 10	1 39	6 31	15 39	23 29	23 26	23 18		n.a.
F 9	6 46	22 38	1s 1	4 16	1 54	19 37	0 15	15 37	5 1	18 37	0 52	10 47	2 3	21 34	0 4	8 11	1 39	6 32	15 39	23 29	23 26	23 18		n.a.
S 10	6 23	20 43	2 2	4 52	2 1	19 23	0 18	15 39	4 57	18 37	0 52	10 44	2 3	21 34	0 4	8 12	1 39	6 32	15 39	23 29	23 26	23 19		n.a.
S 11	6 0	17 50	2 58	5 28	2 8	19 8	0 22	15 41	4 53	18 37	0 52	10 41	2 3	21 35	0 4	8 12	1 39	6 33	15 39	23 28	23 26	23 19		n.a.
M12	5 37	14 4	3 47	6 3	2 14	18 53	0 25	15 42	4 49	18 38	0 52	10 39	2 3	21 35	0 4	8 13	1 39	6 33	15 40	23 28	23 26	23 19		n.a.
T 13	5 14	9 33	4 26	6 37	2 20	18 37	0 28	15 43	4 45	18 38	0 52	10 36	2 3	21 35	0 4	8 14	1 39	6 34	15 40	23 27	23 25	23 19		n.a.
W14	4 50	4 30	4 51	7 10	2 27	18 21	0 32	15 44	4 41	18 38	0 52	10 33	2 3	21 35	0 4	8 14	1 39	6 34	15 40	23 27	23 25	23 19		n.a.
T 15	4 27	0s53	5 0	7 41	2 32	18 4	0 35	15 45	4 37	18 38	0 52	10 30	2 3	21 36	0 4	8 15	1 39	6 35	15 40	23 26	23 25	23 19		n.a.
F 16	4 3	6 19	4 52	8 12	2 38	17 47	0 38	15 45	4 32	18 38	0 52	10 28	2 3	21 36	0 4	8 16	1 39	6 35	15 40	23 25	23 25	23 19		n.a.
S 17	3 39	11 31	4 27	8 41	2 43	17 29	0 41	15 45	4 28	18 38	0 52	10 25	2 3	21 36	0 4	8 16	1 39	6 36	15 40	23 24	23 25	23 19		n.a.
S 18	3 15	16 8	3 44	9 9	2 48	17 10	0 44	15 45	4 23	18 38	0 52	10 22	2 3	21 36	0 4	8 17	1 39	6 36	15 40	23 24	23 24	23 19		n.a.
M19	2 52	19 50	2 47	9 35	2 53	16 52	0 47	15 44	4 19	18 38	0 52	10 20	2 3	21 37	0 4	8 18	1 39	6 37	15 41	23 23	23 24	23 19		n.a.
T 20	2 28	22 19	1 40	9 59	2 57	16 32	0 50	15 43	4 14	18 38	0 52	10 17	2 4	21 37	0 4	8 18	1 39	6 37	15 41	23 23	23 24	23 19		n.a.
W21	2 4	23 22	0 27	10 22	3 0	16 12	0 53	15 42	4 10	18 37	0 52	10 15	2 4	21 37	0 4	8 19	1 39	6 38	15 41	23 23	23 24	23 19		n.a.
T 22	1 40	22 55	0n47	10 43	3 3	15 52	0 55	15 40	4 5	18 37	0 52	10 12	2 4	21 38	0 4	8 19	1 39	6 38	15 41	23 23	23 23	23 19		n.a.
F 23	1 16	21 2	1 58	11 1	3 5	15 31	0 58	15 38	4 1	18 37	0 52	10 9	2 4	21 38	0 4	8 20	1 39	6 39	15 41	23 23	23 23	23 19		n.a.
S 24	0 52	17 55	3 1	11 16	3 7	15 10	1 1	15 36	3 56	18 37	0 52	10 7	2 4	21 38	0 4	8 21	1 39	6 39	15 41	23 23	23 23	23 19		n.a.
S 25	0 28	13 50	3 54	11 29	3 8	14 48	1 3	15 34	3 52	18 36	0 52	10 4	2 4	21 39	0 4	8 21	1 39	6 40	15 41	23 22	23 23	23 19		n.a.
M26	0 3	9 5	4 32	11 39	3 8	14 26	1 6	15 31	3 47	18 36	0 52	10 1	2 4	21 39	0 4	8 22	1 39	6 40	15 41	23 22	23 23	23 19		n.a.
T 27	0s21	3 57	4 54	11 46	3 6	14 3	1 8	15 28	3 42	18 35	0 52	9 59	2 4	21 39	0 4	8 23	1 39	6 41	15 41	23 21	23 22	23 19		n.a.
W28	0 45	1n16	5 1	11 49	3 4	13 40	1 10	15 25	3 38	18 35	0 52	9 56	2 4	21 40	0 4	8 23	1 39	6 41	15 42	23 20	23 22	23 19		n.a.
T 29	1 9	6 21	4 51	11 47	3 1	13 17	1 13	15 21	3 33	18 34	0 52	9 54	2 5	21 40	0 4	8 24	1 39	6 41	15 42	23 19	23 22	23 19		n.a.
F 30	1s33	11n 3	4n27	11s42	2s56	12n53	1n15	15s17	3s29	18n33	0s52	9n51	2n 5	21s40	0s 4	8s24	1s39	6s42	15s42	23s18	23s22	23n18		n.a.

Julian Day Number = 1680758.5, Delta T = 03h15m36s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'10, Lahiri = - 5°29'09 Julian Calendar 1 Sept. 112 BCE == Greg. Calendar 29 Aug. 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

OCTOBER 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 26 30	4♎51'33	0♉ 3	22°R40	0♍53	28°D46	25°R40	10♍ 2	6♐20	12°R38	19°R46	19°R30	20♐24	13♊57	n.a.	S 1
S 2	0 30 26	5°51'41	12°19	22♎20	2° 6	28♒47	25♉37	10° 9	6°22	12♓37	19♈45	19♐22	20°21	14° 3	n.a.	S 2
M 3	0 34 23	6°51'52	24°22	21°51	3°20	28°48	25°34	10°16	6°24	12°35	19°44	19°16	20°18	14°10	n.a.	M 3
T 4	0 38 19	7°52'05	6♊16	21°11	4°33	28°50	25°31	10°23	6°26	12°34	19°43	19°14	20°15	14°16	n.a.	T 4
W 5	0 42 16	8°52'19	18° 4	20°23	5°46	28°53	25°27	10°30	6°29	12°32	19°42	19°D13	20°11	14°23	n.a.	W 5
T 6	0 46 12	9°52'36	29°51	19°25	7° 0	28°57	25°24	10°36	6°31	12°31	19°41	19°13	20° 8	14°30	n.a.	T 6
F 7	0 50 9	10°52'55	11♋43	18°20	8°13	29° 1	25°20	10°43	6°33	12°30	19°39	19°R13	20° 5	14°36	n.a.	F 7
S 8	0 54 5	11°53'17	23°45	17° 8	9°27	29° 6	25°16	10°50	6°36	12°28	19°38	19°13	20° 2	14°43	n.a.	S 8
S 9	0 58 2	12°53'40	6♌ 3	15°51	10°41	29°12	25°12	10°56	6°38	12°27	19°37	19°10	19°59	14°50	n.a.	S 9
M10	1 1 58	13°54'05	18°42	14°32	11°55	29°19	25° 7	11° 3	6°41	12°25	19°36	19° 5	19°55	14°56	n.a.	M10
T 11	1 5 55	14°54'32	1♍44	13°13	13° 8	29°26	25° 3	11° 9	6°43	12°24	19°35	18°57	19°52	15° 3	n.a.	T 11
W12	1 9 52	15°55'01	15°11	11°56	14°22	29°34	24°58	11°16	6°46	12°23	19°34	18°48	19°49	15°10	n.a.	W12
T 13	1 13 48	16°55'32	29° 4	10°44	15°36	29°43	24°53	11°22	6°48	12°21	19°33	18°38	19°46	15°16	n.a.	T 13
F 14	1 17 45	17°56'05	13♎18	9°40	16°50	29°52	24°48	11°29	6°51	12°20	19°32	18°27	19°43	15°23	n.a.	F 14
S 15	1 21 41	18°56'39	27°49	8°45	18° 4	0♓ 2	24°43	11°35	6°54	12°19	19°30	18°18	19°40	15°30	n.a.	S 15
S 16	1 25 38	19°57'16	12♏28	8° 0	19°19	0°13	24°37	11°41	6°57	12°17	19°29	18°11	19°36	15°36	n.a.	S 16
M17	1 29 34	20°57'53	27°10	7°26	20°33	0°24	24°32	11°48	6°59	12°16	19°28	18° 7	19°33	15°43	n.a.	M17
T 18	1 33 31	21°58'32	11♐47	7° 4	21°47	0°36	24°26	11°54	7° 2	12°15	19°27	18°D 5	19°30	15°49	n.a.	T 18
W19	1 37 27	22°59'13	26°14	6°D54	23° 1	0°49	24°20	12° 0	7° 5	12°14	19°26	18° 5	19°27	15°56	n.a.	W19
T 20	1 41 24	23°59'55	10♑28	6°55	24°16	1° 2	24°14	12° 6	7° 8	12°13	19°25	18° 6	19°24	16° 3	n.a.	T 20
F 21	1 45 21	25° 0'37	24°28	7° 6	25°30	1°16	24° 8	12°12	7°11	12°12	19°24	18°R 6	19°20	16° 9	n.a.	F 21
S 22	1 49 17	26° 1'22	8♒13	7°28	26°44	1°31	24° 1	12°18	7°14	12°10	19°23	18° 6	19°17	16°16	n.a.	S 22
S 23	1 53 14	27° 2'07	21°45	7°59	27°59	1°46	23°55	12°24	7°16	12° 9	19°21	18° 3	19°14	16°23	n.a.	S 23
M24	1 57 10	28° 2'53	5♓ 3	8°38	29°13	2° 2	23°48	12°30	7°19	12° 8	19°20	17°58	19°11	16°29	n.a.	M24
T 25	2 1 7	29° 3'40	18° 9	9°24	0♎28	2°18	23°41	12°36	7°22	12° 7	19°19	17°51	19° 8	16°36	n.a.	T 25
W26	2 5 3	0♏ 4'29	1♈ 2	10°16	1°42	2°35	23°35	12°42	7°25	12° 6	19°18	17°42	19° 5	16°43	n.a.	W26
T 27	2 9 0	1° 5'19	13°43	11°14	2°57	2°52	23°28	12°47	7°29	12° 5	19°17	17°33	19° 1	16°49	n.a.	T 27
F 28	2 12 56	2° 6'10	26°12	12°17	4°12	3°10	23°20	12°53	7°32	12° 4	19°16	17°24	18°58	16°56	n.a.	F 28
S 29	2 16 53	3° 7'02	8♉29	13°25	5°26	3°28	23°13	12°58	7°35	12° 3	19°15	17°17	18°55	17° 3	n.a.	S 29
S 30	2 20 50	4° 7'55	20°36	14°35	6°41	3°47	23° 6	13° 4	7°38	12° 3	19°14	17°12	18°52	17° 9	n.a.	S 30
M31	2 24 46	5♏ 8'50	2♊33	15♎50	7♎56	4♓ 6	22♉59	13♍ 9	7♐41	12♓ 2	19♈13	17♐ 8	18♐49	17♊16	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1 s57	15n11	3n50	11 s32	2 s49	12n29	1n17	15 s13	3 s24	18n33	0 s52	9n49	2n 5	21 s41	0 s 4	8 s25	1 s39	6 s42	15 s42	23 s17	23 s21	23 n18		n.a.
S 2	2 21	18 36	3 3	11 17	2 41	12 4	1 19	15 9	3 20	18 32	0 52	9 46	2 5	21 41	0 4	8 25	1 39	6 43	15 42	23 17	23 21	23 18		n.a.
M 3	2 45	21 9	2 8	10 57	2 32	11 39	1 21	15 4	3 16	18 31	0 52	9 44	2 5	21 42	0 4	8 26	1 39	6 43	15 42	23 16	23 21	23 18		n.a.
T 4	3 9	22 43	1 8	10 31	2 20	11 14	1 22	14 59	3 11	18 31	0 52	9 41	2 5	21 42	0 4	8 27	1 39	6 44	15 42	23 16	23 21	23 18		n.a.
W 5	3 33	23 16	0 6	10 0	2 7	10 48	1 24	14 54	3 7	18 30	0 52	9 39	2 5	21 42	0 4	8 27	1 39	6 44	15 42	23 16	23 20	23 18		n.a.
T 6	3 57	22 46	0 s56	9 24	1 52	10 22	1 26	14 49	3 3	18 29	0 52	9 36	2 5	21 43	0 4	8 28	1 39	6 45	15 42	23 16	23 20	23 18		n.a.
F 7	4 21	21 15	1 57	8 44	1 35	9 56	1 28	14 43	2 58	18 28	0 52	9 34	2 6	21 43	0 4	8 28	1 39	6 45	15 42	23 16	23 20	23 18		n.a.
S 8	4 45	18 45	2 53	7 59	1 17	9 29	1 29	14 38	2 54	18 27	0 52	9 31	2 6	21 44	0 4	8 29	1 39	6 45	15 42	23 16	23 20	23 18		n.a.
S 9	5 9	15 22	3 43	7 11	0 57	9 2	1 30	14 32	2 50	18 26	0 52	9 29	2 6	21 44	0 4	8 29	1 39	6 46	15 42	23 16	23 19	23 18		n.a.
M10	5 33	11 14	4 23	6 22	0 37	8 35	1 32	14 26	2 46	18 25	0 52	9 27	2 6	21 44	0 4	8 30	1 39	6 46	15 42	23 15	23 19	23 18		n.a.
T 11	5 56	6 27	4 51	5 31	0 16	8 8	1 33	14 19	2 42	18 24	0 52	9 24	2 6	21 45	0 4	8 30	1 39	6 47	15 42	23 15	23 19	23 17		n.a.
W12	6 20	1 14	5 3	4 42	0n 4	7 40	1 34	14 13	2 38	18 23	0 52	9 22	2 6	21 45	0 4	8 31	1 39	6 47	15 42	23 14	23 19	23 17		n.a.
T 13	6 43	4 s11	4 59	3 55	0 24	7 12	1 35	14 6	2 34	18 21	0 52	9 19	2 6	21 46	0 4	8 31	1 39	6 48	15 42	23 13	23 19	23 17		n.a.
F 14	7 7	9 33	4 36	3 12	0 44	6 44	1 36	13 59	2 30	18 20	0 52	9 17	2 7	21 46	0 4	8 32	1 39	6 48	15 42	23 12	23 18	23 17		n.a.
S 15	7 30	14 28	3 56	2 34	1 1	6 15	1 37	13 51	2 26	18 19	0 52	9 15	2 7	21 47	0 4	8 32	1 39	6 48	15 42	23 11	23 18	23 17		n.a.
S 16	7 53	18 35	2 59	2 1	1 18	5 47	1 38	13 44	2 22	18 18	0 52	9 13	2 7	21 47	0 4	8 33	1 39	6 49	15 42	23 11	23 18	23 17		n.a.
M17	8 16	21 31	1 50	1 34	1 32	5 18	1 39	13 36	2 18	18 16	0 52	9 10	2 7	21 48	0 4	8 33	1 39	6 49	15 42	23 10	23 18	23 17		n.a.
T 18	8 39	23 1	0 34	1 14	1 45	4 49	1 40	13 29	2 15	18 15	0 52	9 8	2 7	21 48	0 4	8 34	1 39	6 50	15 42	23 10	23 17	23 16		n.a.
W19	9 2	22 56	0n44	1 0	1 55	4 20	1 40	13 21	2 11	18 13	0 52	9 6	2 7	21 49	0 4	8 34	1 39	6 50	15 42	23 10	23 17	23 16		n.a.
T 20	9 25	21 20	1 57	0 52	2 4	3 51	1 41	13 12	2 7	18 12	0 52	9 4	2 8	21 49	0 4	8 34	1 39	6 50	15 42	23 10	23 17	23 16		n.a.
F 21	9 47	18 28	3 3	0 51	2 11	3 21	1 41	13 4	2 4	18 10	0 52	9 1	2 8	21 50	0 4	8 35	1 39	6 51	15 42	23 10	23 16	23 16		n.a.
S 22	10 10	14 37	3 56	0 54	2 17	2 52	1 42	12 55	2 0	18 9	0 52	8 59	2 8	21 50	0 4	8 35	1 39	6 51	15 42	23 10	23 16	23 16		n.a.
S 23	10 32	10 4	4 36	1 3	2 21	2 22	1 42	12 47	1 57	18 7	0 52	8 57	2 8	21 51	0 4	8 36	1 39	6 51	15 42	23 10	23 16	23 15		n.a.
M24	10 54	5 7	5 0	1 16	2 23	1 52	1 42	12 38	1 53	18 6	0 52	8 55	2 8	21 51	0 4	8 36	1 39	6 52	15 42	23 9	23 16	23 15		n.a.
T 25	11 16	0 2	5 7	1 33	2 24	1 22	1 42	12 29	1 50	18 4	0 52	8 53	2 9	21 52	0 4	8 36	1 39	6 52	15 42	23 9	23 15	23 15		n.a.
W26	11 37	4n59	4 59	1 54	2 24	0 53	1 42	12 20	1 47	18 2	0 52	8 51	2 9	21 52	0 4	8 37	1 39	6 52	15 41	23 8	23 15	23 15		n.a.
T 27	11 59	9 42	4 36	2 18	2 24	0 23	1 42	12 10	1 44	18 1	0 52	8 49	2 9	21 53	0 4	8 37	1 39	6 53	15 41	23 7	23 15	23 15		n.a.
F 28	12 20	13 57	4 1	2 44	2 22	0 s 8	1 42	12 1	1 40	17 59	0 52	8 47	2 9	21 53	0 4	8 37	1 38	6 53	15 41	23 6	23 15	23 14		n.a.
S 29	12 41	17 33	3 14	3 13	2 19	0 38	1 42	11 51	1 37	17 57	0 52	8 45	2 9	21 54	0 4	8 38	1 38	6 53	15 41	23 6	23 14	23 14		n.a.
S 30	13 2	20 20	2 19	3 44	2 16	1 8	1 42	11 42	1 34	17 55	0 52	8 43	2 10	21 54	0 4	8 38	1 38	6 54	15 41	23 5	23 14	23 14		n.a.
M31	13 s23	22n11	1n18	4 s16	2n12	1 s38	1n41	11 s32	1 s31	17n54	0 s51	8n41	2n10	21 s55	0 s 5	8 s38	1 s38	6 s54	15 s41	23 s 5	23 s14	23 n14		n.a.

Julian Day Number = 1680788.5, Delta T = 03h15m35s
Ecliptic obliquity = 23°42'30, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'06, Lahiri = - 5°29'05 Julian Calendar 1 Oct. 112 BCE == Greg. Calendar 28 Sept. 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

NOVEMBER 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 28 43	6♏ 9'47	14♊24	17♎ 6	9♎11	4♓26	22°R51	13♍15	7♐44	12°R 1	19°R11	17°D 7	18♐46	17♊23	n.a.	T 1
W 2	2 32 39	7°10'44	26°11	18°26	10°25	4°46	22♉43	13°20	7°47	12♓ 0	19♈10	17♐ 7	18°42	17°29	n.a.	W 2
T 3	2 36 36	8°11'43	7♋57	19°47	11°40	5° 6	22°36	13°25	7°51	11°59	19° 9	17° 9	18°39	17°36	n.a.	T 3
F 4	2 40 32	9°12'43	19°48	21°10	12°55	5°27	22°28	13°30	7°54	11°59	19° 8	17°11	18°36	17°42	n.a.	F 4
S 5	2 44 29	10°13'45	1♌49	22°34	14°10	5°49	22°20	13°36	7°57	11°58	19° 7	17°12	18°33	17°49	n.a.	S 5
S 6	2 48 25	11°14'47	14° 4	23°59	15°25	6°11	22°12	13°41	8° 0	11°57	19° 6	17°R12	18°30	17°56	n.a.	S 6
M 7	2 52 22	12°15'51	26°38	25°26	16°40	6°33	22° 4	13°46	8° 4	11°56	19° 5	17°11	18°26	18° 2	n.a.	M 7
T 8	2 56 19	13°16'56	9♍37	26°53	17°55	6°55	21°56	13°50	8° 7	11°56	19° 4	17° 9	18°23	18° 9	n.a.	T 8
W 9	3 0 15	14°18'02	23° 2	28°22	19°10	7°18	21°48	13°55	8°11	11°55	19° 3	17° 5	18°20	18°16	n.a.	W 9
T 10	3 4 12	15°19'10	6♎55	29°50	20°25	7°42	21°40	14° 0	8°14	11°55	19° 2	17° 0	18°17	18°22	n.a.	T 10
F 11	3 8 8	16°20'18	21°15	1♏20	21°40	8° 6	21°32	14° 5	8°17	11°54	19° 1	16°55	18°14	18°29	n.a.	F 11
S 12	3 12 5	17°21'27	5♏57	2°50	22°55	8°30	21°24	14° 9	8°21	11°54	19° 0	16°50	18°11	18°36	n.a.	S 12
S 13	3 16 1	18°22'38	20°54	4°20	24°10	8°54	21°16	14°14	8°24	11°53	18°59	16°47	18° 7	18°42	n.a.	S 13
M14	3 19 58	19°23'49	5♐58	5°51	25°25	9°19	21° 8	14°18	8°28	11°53	18°58	16°45	18° 4	18°49	n.a.	M14
T 15	3 23 54	20°25'00	21° 0	7°22	26°40	9°44	21° 0	14°22	8°31	11°52	18°57	16°D45	18° 1	18°56	n.a.	T 15
W16	3 27 51	21°26'12	5♑51	8°53	27°55	10°10	20°51	14°27	8°35	11°52	18°56	16°46	17°58	19° 2	n.a.	W16
T 17	3 31 48	22°27'25	20°25	10°24	29°11	10°35	20°43	14°31	8°38	11°52	18°55	16°47	17°55	19° 9	n.a.	T 17
F 18	3 35 44	23°28'37	4♒38	11°56	0♏26	11° 1	20°35	14°35	8°42	11°51	18°54	16°49	17°52	19°15	n.a.	F 18
S 19	3 39 41	24°29'50	18°30	13°28	1°41	11°28	20°27	14°39	8°45	11°51	18°54	16°R50	17°48	19°22	n.a.	S 19
S 20	3 43 37	25°31'03	2♓ 0	15° 0	2°56	11°54	20°19	14°43	8°49	11°51	18°53	16°50	17°45	19°29	n.a.	S 20
M21	3 47 34	26°32'16	15°10	16°33	4°11	12°21	20°11	14°47	8°52	11°51	18°52	16°48	17°42	19°35	n.a.	M21
T 22	3 51 30	27°33'29	28° 2	18° 5	5°26	12°49	20° 3	14°50	8°56	11°51	18°51	16°46	17°39	19°42	n.a.	T 22
W23	3 55 27	28°34'42	10♈39	19°38	6°42	13°16	19°55	14°54	8°59	11°51	18°50	16°44	17°36	19°49	n.a.	W23
T 24	3 59 24	29°35'56	23° 2	21°11	7°57	13°44	19°47	14°57	9° 3	11°50	18°49	16°41	17°32	19°55	n.a.	T 24
F 25	4 3 20	0♐37'09	5♉15	22°44	9°12	14°12	19°39	15° 1	9° 6	11°50	18°48	16°38	17°29	20° 2	n.a.	F 25
S 26	4 7 17	1°38'23	17°19	24°18	10°27	14°40	19°31	15° 4	9°10	11°D50	18°48	16°36	17°26	20° 9	n.a.	S 26
S 27	4 11 13	2°39'37	29°15	25°51	11°43	15° 9	19°23	15° 7	9°14	11°50	18°47	16°35	17°23	20°15	n.a.	S 27
M28	4 15 10	3°40'51	11♊ 7	27°25	12°58	15°37	19°15	15°11	9°17	11°51	18°46	16°D34	17°20	20°22	n.a.	M28
T 29	4 19 6	4°42'05	22°55	28°59	14°13	16° 6	19° 8	15°14	9°21	11°51	18°45	16°34	17°17	20°29	n.a.	T 29
W30	4 23 3	5♐43'20	4♋42	0♐34	15♏28	16♓35	19♉ 0	15♍17	9♐24	11♓51	18♈45	16♐35	17♐13	20♊35	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13 s43	23n 2	0n15	4 s50	2n 8	2 s 8	1n41	11 s22	1 s28	17n52	0 s51	8n39	2n10	21 s55	0 s 5	8 s39	1 s38	6 s54	15 s41	23 s 5	23 s14	23n14		n.a.
W 2	14 4	22 50	0 s49	5 25	2 3	2 38	1 40	11 11	1 25	17 50	0 51	8 37	2 10	21 56	0 5	8 39	1 38	6 55	15 41	23 5	23 13	23 13		n.a.
T 3	14 24	21 37	1 51	6 1	1 57	3 8	1 40	11 1	1 22	17 48	0 51	8 35	2 10	21 56	0 5	8 39	1 38	6 55	15 41	23 5	23 13	23 13		n.a.
F 4	14 44	19 26	2 49	6 37	1 52	3 38	1 39	10 51	1 20	17 46	0 51	8 34	2 11	21 57	0 5	8 39	1 38	6 55	15 40	23 5	23 13	23 13		n.a.
S 5	15 3	16 24	3 40	7 14	1 46	4 8	1 39	10 40	1 17	17 44	0 51	8 32	2 11	21 57	0 5	8 40	1 38	6 55	15 40	23 5	23 12	23 12		n.a.
S 6	15 22	12 37	4 22	7 52	1 40	4 38	1 38	10 29	1 14	17 42	0 51	8 30	2 11	21 58	0 5	8 40	1 38	6 56	15 40	23 5	23 12	23 12		n.a.
M 7	15 41	8 11	4 53	8 30	1 33	5 8	1 37	10 19	1 11	17 40	0 51	8 28	2 11	21 58	0 5	8 40	1 38	6 56	15 40	23 5	23 12	23 12		n.a.
T 8	16 0	3 16	5 10	9 8	1 27	5 38	1 36	10 8	1 9	17 38	0 51	8 27	2 11	21 59	0 5	8 40	1 38	6 56	15 40	23 5	23 12	23 12		n.a.
W 9	16 19	1 s58	5 11	9 46	1 20	6 7	1 35	9 57	1 6	17 36	0 51	8 25	2 12	22 0	0 5	8 40	1 38	6 56	15 40	23 4	23 11	23 11		n.a.
T 10	16 37	7 16	4 54	10 24	1 13	6 37	1 34	9 45	1 4	17 34	0 51	8 23	2 12	22 0	0 5	8 41	1 38	6 57	15 40	23 4	23 11	23 11		n.a.
F 11	16 55	12 22	4 19	11 2	1 7	7 6	1 33	9 34	1 1	17 32	0 50	8 22	2 12	22 1	0 5	8 41	1 38	6 57	15 39	23 3	23 11	23 11		n.a.
S 12	17 12	16 53	3 26	11 39	1 0	7 35	1 32	9 23	0 59	17 30	0 50	8 20	2 12	22 1	0 5	8 41	1 38	6 57	15 39	23 3	23 11	23 10		n.a.
S 13	17 29	20 23	2 17	12 17	0 53	8 5	1 30	9 11	0 56	17 28	0 50	8 19	2 13	22 2	0 5	8 41	1 38	6 57	15 39	23 3	23 10	23 10		n.a.
M14	17 46	22 31	0 59	12 54	0 46	8 33	1 29	9 0	0 54	17 26	0 50	8 17	2 13	22 2	0 5	8 41	1 38	6 57	15 39	23 2	23 10	23 10		n.a.
T 15	18 3	23 1	0n23	13 31	0 39	9 2	1 28	8 48	0 51	17 24	0 50	8 16	2 13	22 3	0 5	8 41	1 38	6 57	15 39	23 2	23 10	23 10		n.a.
W16	18 19	21 51	1 43	14 7	0 31	9 31	1 26	8 36	0 49	17 22	0 50	8 14	2 13	22 3	0 5	8 41	1 38	6 58	15 38	23 2	23 9	23 9		n.a.
T 17	18 35	19 15	2 55	14 43	0 24	9 59	1 25	8 24	0 47	17 20	0 50	8 13	2 14	22 4	0 5	8 41	1 38	6 58	15 38	23 3	23 9	23 9		n.a.
F 18	18 51	15 32	3 54	15 19	0 17	10 27	1 23	8 12	0 45	17 18	0 49	8 11	2 14	22 5	0 5	8 42	1 38	6 58	15 38	23 3	23 9	23 9		n.a.
S 19	19 6	11 3	4 38	15 54	0 10	10 55	1 22	8 0	0 42	17 16	0 49	8 10	2 14	22 5	0 5	8 42	1 38	6 58	15 38	23 3	23 8	23 8		n.a.
S 20	19 21	6 8	5 5	16 28	0 4	11 23	1 20	7 48	0 40	17 14	0 49	8 9	2 14	22 6	0 5	8 42	1 37	6 58	15 38	23 3	23 8	23 8		n.a.
M21	19 36	1 4	5 16	17 1	0 s 3	11 50	1 18	7 35	0 38	17 12	0 49	8 8	2 15	22 6	0 5	8 42	1 37	6 58	15 37	23 3	23 8	23 7		n.a.
T 22	19 50	3n56	5 10	17 34	0 10	12 17	1 17	7 23	0 36	17 10	0 49	8 6	2 15	22 7	0 5	8 42	1 37	6 58	15 37	23 3	23 8	23 7		n.a.
W23	20 4	8 41	4 49	18 6	0 17	12 44	1 15	7 10	0 34	17 8	0 49	8 5	2 15	22 7	0 5	8 42	1 37	6 59	15 37	23 2	23 7	23 7		n.a.
T 24	20 17	12 59	4 15	18 38	0 23	13 10	1 13	6 58	0 32	17 6	0 48	8 4	2 15	22 8	0 5	8 42	1 37	6 59	15 37	23 2	23 7	23 6		n.a.
F 25	20 31	16 42	3 29	19 9	0 30	13 36	1 11	6 45	0 30	17 4	0 48	8 3	2 16	22 8	0 5	8 42	1 37	6 59	15 36	23 2	23 7	23 6		n.a.
S 26	20 43	19 40	2 35	19 38	0 36	14 2	1 9	6 32	0 28	17 2	0 48	8 2	2 16	22 9	0 5	8 42	1 37	6 59	15 36	23 1	23 6	23 6		n.a.
S 27	20 56	21 45	1 35	20 7	0 42	14 27	1 7	6 19	0 26	17 0	0 48	8 1	2 16	22 10	0 5	8 42	1 37	6 59	15 36	23 1	23 6	23 5		n.a.
M28	21 7	22 52	0 30	20 35	0 48	14 52	1 5	6 6	0 25	16 58	0 48	8 0	2 16	22 10	0 5	8 41	1 37	6 59	15 36	23 1	23 6	23 5		n.a.
T 29	21 19	22 56	0 s35	21 2	0 54	15 17	1 3	5 53	0 23	16 56	0 48	7 59	2 17	22 11	0 5	8 41	1 37	6 59	15 35	23 1	23 5	23 4		n.a.
W30	21 s30	21n58	1 s39	21 s29	1 s 0	15 s41	1n 1	5 s40	0 s21	16n54	0 s47	7n58	2n17	22 s11	0 s 5	8 s41	1 s37	6 s59	15 s35	23 s 1	23 s 5	23n 4		n.a.

Julian Day Number = 1680819.5, Delta T = 03h15m34s
Ecliptic obliquity = 23°42'29, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°36'02, Lahiri = - 5°29'01 Julian Calendar 1 Nov. 112 BCE == Greg. Calendar 29 Oct. 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 112 BCE
geocentric

DECEMBER 112 BCE (-111) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 26 59	6♐44'34	16♋31	2♐ 8	16♏44	17♓ 5	18°R53	15♍20	9♐28	11♓51	18°R44	16♐35	17♐10	20♊42	n.a.	T 1
F 2	4 30 56	7°45'49	28°25	3°43	17°59	17°34	18♉46	15°22	9°32	11°51	18♈43	16°36	17° 7	20°49	n.a.	F 2
S 3	4 34 53	8°47'04	10♌27	5°19	19°14	18° 4	18°38	15°25	9°35	11°51	18°43	16°37	17° 4	20°55	n.a.	S 3
S 4	4 38 49	9°48'19	22°41	6°55	20°29	18°34	18°31	15°28	9°39	11°52	18°42	16°38	17° 1	21° 2	n.a.	S 4
M 5	4 42 46	10°49'34	5♍12	8°31	21°45	19° 4	18°24	15°30	9°42	11°52	18°41	16°38	16°58	21° 8	n.a.	M 5
T 6	4 46 42	11°50'49	18° 4	10° 7	23° 0	19°34	18°17	15°33	9°46	11°52	18°41	16°R38	16°54	21°15	n.a.	T 6
W 7	4 50 39	12°52'04	1♎20	11°44	24°15	20° 5	18°10	15°35	9°50	11°53	18°40	16°38	16°51	21°22	n.a.	W 7
T 8	4 54 35	13°53'19	15° 3	13°21	25°30	20°36	18° 4	15°37	9°53	11°53	18°39	16°38	16°48	21°28	n.a.	T 8
F 9	4 58 32	14°54'35	29°13	14°58	26°46	21° 7	17°57	15°39	9°57	11°53	18°39	16°38	16°45	21°35	n.a.	F 9
S 10	5 2 28	15°55'50	13♏48	16°36	28° 1	21°38	17°51	15°41	10° 0	11°54	18°38	16°37	16°42	21°42	n.a.	S 10
S 11	5 6 25	16°57'05	28°45	18°15	29°16	22° 9	17°44	15°43	10° 4	11°54	18°38	16°D37	16°38	21°48	n.a.	S 11
M12	5 10 22	17°58'20	13♐55	19°54	0♐32	22°40	17°38	15°45	10° 8	11°55	18°37	16°R38	16°35	21°55	n.a.	M12
T 13	5 14 18	18°59'35	29° 9	21°33	1°47	23°12	17°32	15°47	10°11	11°56	18°37	16°37	16°32	22° 2	n.a.	T 13
W14	5 18 15	20° 0'49	14♑18	23°13	3° 2	23°43	17°26	15°48	10°15	11°56	18°36	16°37	16°29	22° 8	n.a.	W14
T 15	5 22 11	21° 2'02	29°12	24°53	4°17	24°15	17°21	15°50	10°18	11°57	18°36	16°37	16°26	22°15	n.a.	T 15
F 16	5 26 8	22° 3'15	13♒44	26°33	5°33	24°47	17°15	15°51	10°22	11°58	18°35	16°36	16°23	22°22	n.a.	F 16
S 17	5 30 4	23° 4'26	27°51	28°14	6°48	25°19	17°10	15°52	10°26	11°58	18°35	16°36	16°19	22°28	n.a.	S 17
S 18	5 34 1	24° 5'37	11♓30	29°56	8° 3	25°52	17° 5	15°53	10°29	11°59	18°35	16°35	16°16	22°35	n.a.	S 18
M19	5 37 58	25° 6'47	24°44	1♑38	9°18	26°24	17° 0	15°54	10°33	12° 0	18°34	16°D35	16°13	22°42	n.a.	M19
T 20	5 41 54	26° 7'55	7♈33	3°20	10°34	26°57	16°55	15°55	10°36	12° 1	18°34	16°35	16°10	22°48	n.a.	T 20
W21	5 45 51	27° 9'03	20° 3	5° 2	11°49	27°29	16°50	15°56	10°40	12° 1	18°34	16°36	16° 7	22°55	n.a.	W21
T 22	5 49 47	28°10'10	2♉18	6°45	13° 4	28° 2	16°46	15°57	10°43	12° 2	18°33	16°37	16° 4	23° 1	n.a.	T 22
F 23	5 53 44	29°11'15	14°20	8°28	14°19	28°35	16°41	15°57	10°47	12° 3	18°33	16°38	16° 0	23° 8	n.a.	F 23
S 24	5 57 40	0♑12'20	26°14	10°11	15°34	29° 8	16°37	15°58	10°50	12° 4	18°33	16°39	15°57	23°15	n.a.	S 24
S 25	6 1 37	1°13'23	8♊ 4	11°54	16°50	29°41	16°33	15°58	10°53	12° 5	18°32	16°40	15°54	23°21	n.a.	S 25
M26	6 5 33	2°14'26	19°51	13°37	18° 5	0♈14	16°30	15°59	10°57	12° 6	18°32	16°R40	15°51	23°28	n.a.	M26
T 27	6 9 30	3°15'27	1♋39	15°19	19°20	0°48	16°26	15°59	11° 0	12° 7	18°32	16°40	15°48	23°35	n.a.	T 27
W28	6 13 27	4°16'28	13°30	17° 1	20°35	1°21	16°23	15°R59	11° 4	12° 8	18°32	16°38	15°44	23°41	n.a.	W28
T 29	6 17 23	5°17'27	25°25	18°43	21°50	1°55	16°20	15°59	11° 7	12° 9	18°32	16°36	15°41	23°48	n.a.	T 29
F 30	6 21 20	6°18'26	7♌27	20°23	23° 5	2°28	16°17	15°59	11°10	12°11	18°31	16°32	15°38	23°55	n.a.	F 30
S 31	6 25 16	7♑19'23	19♌37	22♑ 2	24♐21	3♈ 2	16♉14	15♍59	11♐14	12♓12	18♈31	16♐29	15♐35	24♊ 1	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21s41	20n 3	2s39	21s54	1s 6	16s 5	0n59	5s27	0s19	16n53	0s47	7n57	2n17	22s12	0s 5	8s41	1s37	6s59	15s35	23s 1	23s 5	23n 4			n.a.
F 2	21 51	17 15	3 32	22 18	1 11	16 28	0 57	5 14	0 17	16 51	0 47	7 56	2 18	22 12	0 5	8 41	1 37	6 59	15 35	23 2	23 5	23 3			n.a.
S 3	22 1	13 42	4 17	22 41	1 16	16 51	0 54	5 1	0 16	16 49	0 47	7 55	2 18	22 13	0 5	8 41	1 37	6 59	15 34	23 2	23 4	23 3			n.a.
S 4	22 10	9 31	4 51	23 3	1 21	17 14	0 52	4 47	0 14	16 47	0 47	7 55	2 18	22 14	0 5	8 41	1 37	6 59	15 34	23 2	23 4	23 2			n.a.
M 5	22 19	4 52	5 12	23 23	1 26	17 36	0 50	4 34	0 12	16 45	0 46	7 54	2 18	22 14	0 5	8 41	1 37	6 59	15 34	23 2	23 4	23 2			n.a.
T 6	22 28	0s 6	5 18	23 43	1 31	17 58	0 48	4 20	0 11	16 44	0 46	7 53	2 19	22 15	0 5	8 40	1 37	6 59	15 34	23 2	23 3	23 2			n.a.
W 7	22 36	5 14	5 8	24 1	1 35	18 19	0 45	4 7	0 9	16 42	0 46	7 53	2 19	22 15	0 5	8 40	1 37	6 59	15 33	23 2	23 3	23 1			n.a.
T 8	22 43	10 17	4 40	24 18	1 39	18 40	0 43	3 53	0 8	16 40	0 46	7 52	2 19	22 16	0 5	8 40	1 37	6 59	15 33	23 2	23 3	23 1			n.a.
F 9	22 51	14 58	3 55	24 34	1 43	19 0	0 41	3 39	0 6	16 39	0 46	7 51	2 19	22 16	0 5	8 40	1 37	6 59	15 33	23 2	23 2	23 0			n.a.
S 10	22 57	18 54	2 53	24 48	1 47	19 19	0 38	3 26	0 5	16 37	0 45	7 51	2 20	22 17	0 5	8 40	1 37	6 59	15 32	23 2	23 2	23 0			n.a.
S 11	23 4	21 42	1 38	25 0	1 50	19 38	0 36	3 12	0 3	16 35	0 45	7 50	2 20	22 17	0 5	8 39	1 36	6 59	15 32	23 2	23 2	22 59			n.a.
M12	23 9	22 59	0 15	25 12	1 53	19 57	0 33	2 58	0 2	16 34	0 45	7 50	2 20	22 18	0 5	8 39	1 36	6 59	15 32	23 2	23 1	22 59			n.a.
T 13	23 15	22 33	1n 9	25 22	1 56	20 15	0 31	2 44	0 0	16 32	0 45	7 50	2 21	22 18	0 5	8 39	1 36	6 58	15 31	23 2	23 1	22 58			n.a.
W14	23 20	20 29	2 28	25 30	1 58	20 32	0 28	2 30	0n 1	16 31	0 44	7 49	2 21	22 19	0 5	8 39	1 36	6 58	15 31	23 2	23 1	22 58			n.a.
T 15	23 24	17 2	3 36	25 36	2 0	20 49	0 26	2 16	0 3	16 30	0 44	7 49	2 21	22 19	0 5	8 38	1 36	6 58	15 31	23 2	23 0	22 57			n.a.
F 16	23 28	12 37	4 27	25 41	2 2	21 5	0 24	2 2	0 4	16 28	0 44	7 49	2 21	22 20	0 5	8 38	1 36	6 58	15 31	23 2	23 0	22 57			n.a.
S 17	23 31	7 39	5 1	25 45	2 3	21 21	0 21	1 48	0 5	16 27	0 44	7 48	2 22	22 21	0 5	8 38	1 36	6 58	15 30	23 1	23 0	22 56			n.a.
S 18	23 34	2 27	5 17	25 46	2 4	21 35	0 19	1 34	0 7	16 26	0 43	7 48	2 22	22 21	0 5	8 37	1 36	6 58	15 30	23 1	22 59	22 56			n.a.
M19	23 37	2n41	5 15	25 46	2 4	21 50	0 16	1 20	0 8	16 25	0 43	7 48	2 22	22 22	0 5	8 37	1 36	6 58	15 30	23 1	22 59	22 55			n.a.
T 20	23 39	7 34	4 57	25 44	2 4	22 3	0 14	1 5	0 9	16 23	0 43	7 48	2 23	22 22	0 5	8 37	1 36	6 57	15 29	23 1	22 59	22 55			n.a.
W21	23 41	12 1	4 25	25 40	2 3	22 16	0 11	0 51	0 10	16 22	0 43	7 48	2 23	22 23	0 5	8 36	1 36	6 57	15 29	23 1	22 58	22 54			n.a.
T 22	23 42	15 53	3 42	25 34	2 2	22 29	0 9	0 37	0 12	16 21	0 43	7 48	2 23	22 23	0 5	8 36	1 36	6 57	15 29	23 2	22 58	22 54			n.a.
F 23	23 42	19 1	2 50	25 26	2 0	22 40	0 6	0 22	0 13	16 20	0 42	7 48	2 24	22 24	0 5	8 35	1 36	6 57	15 28	23 2	22 58	22 53			n.a.
S 24	23 42	21 19	1 51	25 17	1 58	22 51	0 4	0 8	0 14	16 19	0 42	7 48	2 24	22 24	0 5	8 35	1 36	6 57	15 28	23 2	22 57	22 53			n.a.
S 25	23 42	22 41	0 48	25 5	1 55	23 2	0 1	0n 6	0 15	16 18	0 42	7 48	2 24	22 25	0 5	8 35	1 36	6 56	15 28	23 2	22 57	22 52			n.a.
M26	23 41	23 1	0s18	24 51	1 52	23 11	0s 1	0 21	0 16	16 18	0 42	7 48	2 24	22 25	0 5	8 34	1 36	6 56	15 27	23 2	22 57	22 52			n.a.
T 27	23 40	22 20	1 22	24 36	1 48	23 20	0 4	0 35	0 17	16 17	0 41	7 48	2 25	22 26	0 5	8 34	1 36	6 56	15 27	23 2	22 56	22 51			n.a.
W28	23 38	20 38	2 23	24 19	1 43	23 28	0 6	0 50	0 19	16 16	0 41	7 49	2 25	22 26	0 5	8 33	1 36	6 56	15 27	23 2	22 56	22 51			n.a.
T 29	23 36	18 3	3 18	24 0	1 37	23 36	0 9	1 4	0 20	16 15	0 41	7 49	2 25	22 27	0 5	8 33	1 36	6 56	15 26	23 1	22 56	22 50			n.a.
F 30	23 33	14 40	4 5	23 39	1 31	23 43	0 11	1 19	0 21	16 15	0 41	7 49	2 26	22 27	0 5	8 32	1 36	6 55	15 26	23 1	22 55	22 49			n.a.
S 31	23s30	10n39	4s41	23s16	1s24	23s49	0s14	1n33	0n22	16n14	0s40	7n50	2n26	22s28	0s 5	8s32	1s36	6s55	15s26	23s 1	22s55	22n49			n.a.

Julian Day Number = 1680849.5, Delta T = 03h15m33s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'58, Lahiri = - 5°28'57 Julian Calendar 1 Dec. 112 BCE == Greg. Calendar 28 Nov. 112 BCE

The year -111 astronomical counting style corresponds to year 112 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

JANUARY 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 29 13	8♑20'20	1♍58	23♑40	25♐36	3♈36	16°R11	15°R58	11♐17	12♓13	18°R31	16°R26	15♐32	24♊ 8	n.a.	S 1
M 2	6 33 9	9°21'15	14°33	25°15	26°51	4°10	16♉ 9	15♍58	11°20	12°14	18♈31	16♐23	15°29	24°15	n.a.	M 2
T 3	6 37 6	10°22'10	27°24	26°48	28° 6	4°44	16° 7	15°57	11°24	12°15	18°31	16°21	15°25	24°21	n.a.	T 3
W 4	6 41 2	11°23'04	10♎34	28°18	29°21	5°18	16° 5	15°57	11°27	12°17	18°31	16°D20	15°22	24°28	n.a.	W 4
T 5	6 44 59	12°23'56	24° 5	29°44	0♑36	5°52	16° 3	15°56	11°30	12°18	18°D31	16°21	15°19	24°35	n.a.	T 5
F 6	6 48 56	13°24'48	8♏ 0	1♒ 7	1°51	6°27	16° 1	15°55	11°33	12°19	18°31	16°22	15°16	24°41	n.a.	F 6
S 7	6 52 52	14°25'39	22°18	2°24	3° 7	7° 1	16° 0	15°54	11°37	12°21	18°31	16°24	15°13	24°48	n.a.	S 7
S 8	6 56 49	15°26'28	6♐58	3°36	4°22	7°35	15°59	15°53	11°40	12°22	18°31	16°25	15°10	24°54	n.a.	S 8
M 9	7 0 45	16°27'17	21°55	4°41	5°37	8°10	15°58	15°52	11°43	12°24	18°31	16°R25	15° 6	25° 1	n.a.	M 9
T 10	7 4 42	17°28'04	7♑ 2	5°39	6°52	8°44	15°57	15°51	11°46	12°25	18°31	16°24	15° 3	25° 8	n.a.	T 10
W11	7 8 38	18°28'50	22°11	6°29	8° 7	9°19	15°56	15°49	11°49	12°27	18°32	16°21	15° 0	25°14	n.a.	W11
T 12	7 12 35	19°29'34	7♒11	7°11	9°22	9°54	15°56	15°48	11°52	12°28	18°32	16°16	14°57	25°21	n.a.	T 12
F 13	7 16 31	20°30'17	21°54	7°43	10°37	10°29	15°D56	15°46	11°55	12°30	18°32	16°11	14°54	25°28	n.a.	F 13
S 14	7 20 28	21°30'58	6♓13	8° 6	11°52	11° 4	15°56	15°44	11°58	12°31	18°32	16° 5	14°50	25°34	n.a.	S 14
S 15	7 24 25	22°31'37	20° 4	8°18	13° 7	11°38	15°56	15°43	12° 1	12°33	18°32	16° 1	14°47	25°41	n.a.	S 15
M16	7 28 21	23°32'14	3♈26	8°R20	14°22	12°13	15°56	15°41	12° 4	12°34	18°32	15°57	14°44	25°48	n.a.	M16
T 17	7 32 18	24°32'49	16°21	8°11	15°37	12°49	15°57	15°39	12° 7	12°36	18°33	15°55	14°41	25°54	n.a.	T 17
W18	7 36 14	25°33'23	28°53	7°52	16°52	13°24	15°58	15°37	12°10	12°38	18°33	15°D55	14°38	26° 1	n.a.	W18
T 19	7 40 11	26°33'54	11♉ 6	7°23	18° 7	13°59	15°59	15°35	12°13	12°39	18°33	15°56	14°35	26° 8	n.a.	T 19
F 20	7 44 7	27°34'24	23° 5	6°45	19°22	14°34	16° 0	15°32	12°15	12°41	18°34	15°57	14°31	26°14	n.a.	F 20
S 21	7 48 4	28°34'51	4♊55	5°58	20°37	15° 9	16° 2	15°30	12°18	12°43	18°34	15°59	14°28	26°21	n.a.	S 21
S 22	7 52 0	29°35'17	16°42	5° 5	21°52	15°45	16° 3	15°27	12°21	12°45	18°34	16°R 0	14°25	26°28	n.a.	S 22
M23	7 55 57	0♒35'41	28°29	4° 6	23° 7	16°20	16° 5	15°25	12°24	12°46	18°35	15°59	14°22	26°34	n.a.	M23
T 24	7 59 54	1°36'02	10♋19	3° 3	24°22	16°56	16° 7	15°22	12°26	12°48	18°35	15°56	14°19	26°41	n.a.	T 24
W25	8 3 50	2°36'22	22°15	1°58	25°37	17°31	16° 9	15°20	12°29	12°50	18°36	15°50	14°15	26°47	n.a.	W25
T 26	8 7 47	3°36'40	4♌20	0°52	26°52	18° 7	16°12	15°17	12°32	12°52	18°36	15°43	14°12	26°54	n.a.	T 26
F 27	8 11 43	4°36'56	16°35	29♑48	28° 7	18°42	16°14	15°14	12°34	12°54	18°36	15°34	14° 9	27° 1	n.a.	F 27
S 28	8 15 40	5°37'11	29° 0	28°45	29°21	19°18	16°17	15°11	12°37	12°55	18°37	15°24	14° 6	27° 7	n.a.	S 28
S 29	8 19 36	6°37'23	11♍36	27°47	0♒36	19°53	16°20	15° 8	12°39	12°57	18°37	15°15	14° 3	27°14	n.a.	S 29
M30	8 23 33	7°37'34	24°24	26°53	1°51	20°29	16°23	15° 5	12°42	12°59	18°38	15° 7	14° 0	27°21	n.a.	M30
T 31	8 27 29	8♒37'43	7♎25	26♑ 5	3♒ 6	21♈ 5	16♉27	15♍ 2	12♐44	13♓ 1	18♈39	15♐ 0	13♐56	27♊27	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	23s27	6n 9	5s 5	22s51	1s16	23s54	0s16	1n48	0n23	16n14	0s40	7n50	2n26	22s28	0s 5	8s31	1s35	6s55	15s25	23s 0	22s55	22n48			n.a.
M 2	23 22	1 19	5 15	22 26	1 7	23 59	0 18	2 2	0 24	16 13	0 40	7 50	2 26	22 29	0 5	8 31	1 35	6 54	15 25	23 0	22 54	22 48			n.a.
T 3	23 18	3s40	5 9	21 58	0 58	24 2	0 21	2 17	0 25	16 13	0 40	7 51	2 27	22 29	0 5	8 30	1 35	6 54	15 25	23 0	22 54	22 47			n.a.
W 4	23 13	8 37	4 47	21 30	0 47	24 6	0 23	2 31	0 26	16 12	0 39	7 51	2 27	22 29	0 5	8 30	1 35	6 54	15 24	23 0	22 54	22 47			n.a.
T 5	23 7	13 18	4 9	21 1	0 36	24 8	0 25	2 46	0 27	16 12	0 39	7 52	2 27	22 30	0 5	8 29	1 35	6 54	15 24	23 0	22 53	22 46			n.a.
F 6	23 1	17 25	3 16	20 31	0 24	24 9	0 28	3 1	0 28	16 12	0 39	7 53	2 28	22 30	0 5	8 29	1 35	6 53	15 24	23 0	22 53	22 45			n.a.
S 7	22 55	20 37	2 9	20 1	0 10	24 10	0 30	3 15	0 29	16 12	0 39	7 53	2 28	22 31	0 5	8 28	1 35	6 53	15 23	23 0	22 53	22 45			n.a.
S 8	22 48	22 34	0 52	19 31	0n 3	24 10	0 32	3 30	0 30	16 12	0 38	7 54	2 28	22 31	0 5	8 27	1 35	6 53	15 23	23 0	22 52	22 44			n.a.
M 9	22 41	22 57	0n30	19 1	0 18	24 10	0 34	3 44	0 30	16 12	0 38	7 55	2 28	22 32	0 5	8 27	1 35	6 52	15 23	23 0	22 52	22 44			n.a.
T 10	22 33	21 40	1 51	18 32	0 34	24 8	0 37	3 59	0 31	16 12	0 38	7 55	2 29	22 32	0 5	8 26	1 35	6 52	15 22	23 0	22 52	22 43			n.a.
W11	22 25	18 50	3 4	18 4	0 50	24 6	0 39	4 13	0 32	16 12	0 38	7 56	2 29	22 33	0 5	8 26	1 35	6 51	15 22	23 0	22 51	22 42			n.a.
T 12	22 16	14 46	4 3	17 37	1 6	24 3	0 41	4 28	0 33	16 12	0 37	7 57	2 29	22 33	0 5	8 25	1 35	6 51	15 21	22 59	22 51	22 42			n.a.
F 13	22 7	9 53	4 45	17 13	1 23	24 0	0 43	4 43	0 34	16 12	0 37	7 58	2 29	22 33	0 5	8 24	1 35	6 51	15 21	22 59	22 50	22 41			n.a.
S 14	21 58	4 34	5 7	16 50	1 40	23 55	0 45	4 57	0 35	16 12	0 37	7 59	2 30	22 34	0 5	8 24	1 35	6 50	15 21	22 58	22 50	22 40			n.a.
S 15	21 48	0n47	5 11	16 31	1 57	23 50	0 47	5 12	0 36	16 12	0 37	8 0	2 30	22 34	0 5	8 23	1 35	6 50	15 20	22 58	22 50	22 40			n.a.
M16	21 38	5 55	4 58	16 14	2 14	23 44	0 49	5 26	0 36	16 13	0 36	8 1	2 30	22 35	0 5	8 22	1 35	6 50	15 20	22 57	22 49	22 39			n.a.
T 17	21 27	10 38	4 29	16 1	2 30	23 37	0 51	5 41	0 37	16 13	0 36	8 2	2 30	22 35	0 5	8 22	1 35	6 49	15 20	22 57	22 49	22 38			n.a.
W18	21 16	14 45	3 49	15 51	2 45	23 30	0 53	5 55	0 38	16 14	0 36	8 3	2 31	22 35	0 5	8 21	1 35	6 49	15 19	22 57	22 49	22 38			n.a.
T 19	21 5	18 9	2 59	15 44	3 0	23 22	0 55	6 10	0 39	16 14	0 36	8 4	2 31	22 36	0 5	8 20	1 35	6 48	15 19	22 57	22 48	22 37			n.a.
F 20	20 53	20 42	2 1	15 41	3 13	23 13	0 56	6 25	0 39	16 15	0 35	8 5	2 31	22 36	0 5	8 20	1 35	6 48	15 19	22 57	22 48	22 36			n.a.
S 21	20 41	22 20	1 0	15 42	3 24	23 4	0 58	6 39	0 40	16 15	0 35	8 6	2 31	22 37	0 5	8 19	1 35	6 47	15 18	22 58	22 48	22 36			n.a.
S 22	20 28	22 58	0s 4	15 45	3 34	22 54	1 0	6 53	0 41	16 16	0 35	8 7	2 32	22 37	0 5	8 18	1 35	6 47	15 18	22 58	22 47	22 35			n.a.
M23	20 15	22 35	1 7	15 52	3 41	22 43	1 2	7 8	0 42	16 17	0 35	8 8	2 32	22 37	0 5	8 18	1 35	6 47	15 18	22 58	22 47	22 34			n.a.
T 24	20 2	21 11	2 8	16 1	3 46	22 31	1 3	7 22	0 42	16 18	0 34	8 10	2 32	22 38	0 5	8 17	1 35	6 46	15 17	22 57	22 46	22 34			n.a.
W25	19 48	18 50	3 3	16 13	3 50	22 19	1 5	7 37	0 43	16 19	0 34	8 11	2 32	22 38	0 5	8 16	1 35	6 46	15 17	22 57	22 46	22 33			n.a.
T 26	19 34	15 39	3 51	16 26	3 50	22 6	1 6	7 51	0 44	16 20	0 34	8 12	2 33	22 38	0 5	8 15	1 35	6 45	15 17	22 56	22 46	22 32			n.a.
F 27	19 19	11 46	4 29	16 42	3 49	21 53	1 8	8 5	0 44	16 21	0 34	8 14	2 33	22 39	0 5	8 15	1 35	6 45	15 16	22 55	22 45	22 32			n.a.
S 28	19 5	7 22	4 54	16 58	3 45	21 38	1 9	8 20	0 45	16 22	0 34	8 15	2 33	22 39	0 5	8 14	1 35	6 44	15 16	22 54	22 45	22 31			n.a.
S 29	18 50	2 35	5 6	17 15	3 40	21 24	1 10	8 34	0 46	16 23	0 33	8 16	2 33	22 39	0 5	8 13	1 35	6 44	15 16	22 53	22 45	22 30			n.a.
M30	18 34	2s22	5 3	17 32	3 33	21 8	1 12	8 48	0 46	16 24	0 33	8 18	2 34	22 40	0 5	8 12	1 34	6 43	15 15	22 52	22 44	22 29			n.a.
T 31	18s18	7s18	4s44	17s50	3n24	20s52	1s13	9n 2	0n47	16n25	0s33	8n19	2n34	22s40	0s 5	8s12	1s34	6s43	15s15	22s51	22s44	22n29			n.a.

Julian Day Number = 1680880.5, Delta T = 03h15m32s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'53, Lahiri = - 5°28'53 Julian Calendar 1 Jan. 111 BCE == Greg. Calendar 29 Dec. 112 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

FEBRUARY 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 31 26	9♒37'50	20♎39	25°R23	4♒21	21♈41	16♉30	14°R58	12♐46	13♓ 3	18♈39	14°R56	13♐53	27♊34	n.a.	W 1
T 2	8 35 23	10°37'56	4♏ 8	24♑47	5°36	22°16	16°34	14♍55	12°49	13° 5	18°40	14♐54	13°50	27°41	n.a.	T 2
F 3	8 39 19	11°38'00	17°54	24°19	6°50	22°52	16°38	14°52	12°51	13° 7	18°40	14°D54	13°47	27°47	n.a.	F 3
S 4	8 43 16	12°38'02	1♐57	23°58	8° 5	23°28	16°42	14°48	12°53	13° 9	18°41	14°55	13°44	27°54	n.a.	S 4
S 5	8 47 12	13°38'03	16°17	23°43	9°20	24° 4	16°46	14°45	12°55	13°11	18°42	14°R56	13°41	28° 1	n.a.	S 5
M 6	8 51 9	14°38'02	0♑51	23°35	10°35	24°40	16°51	14°41	12°58	13°13	18°42	14°55	13°37	28° 7	n.a.	M 6
T 7	8 55 5	15°37'59	15°37	23°D34	11°49	25°16	16°55	14°37	13° 0	13°15	18°43	14°51	13°34	28°14	n.a.	T 7
W 8	8 59 2	16°37'55	0♒28	23°38	13° 4	25°52	17° 0	14°33	13° 2	13°17	18°44	14°45	13°31	28°21	n.a.	W 8
T 9	9 2 58	17°37'48	15°15	23°49	14°19	26°28	17° 5	14°30	13° 4	13°19	18°44	14°37	13°28	28°27	n.a.	T 9
F 10	9 6 55	18°37'39	29°51	24° 6	15°34	27° 4	17°10	14°26	13° 6	13°21	18°45	14°27	13°25	28°34	n.a.	F 10
S 11	9 10 52	19°37'28	14♓ 9	24°27	16°48	27°40	17°15	14°22	13° 8	13°24	18°46	14°16	13°21	28°41	n.a.	S 11
S 12	9 14 48	20°37'15	28° 2	24°54	18° 3	28°17	17°21	14°18	13°10	13°26	18°47	14° 6	13°18	28°47	n.a.	S 12
M13	9 18 45	21°37'00	11♈28	25°25	19°18	28°53	17°26	14°14	13°12	13°28	18°47	13°58	13°15	28°54	n.a.	M13
T 14	9 22 41	22°36'42	24°28	26° 1	20°32	29°29	17°32	14°10	13°13	13°30	18°48	13°52	13°12	29° 0	n.a.	T 14
W15	9 26 38	23°36'22	7♉ 4	26°40	21°47	0♉ 5	17°38	14° 6	13°15	13°32	18°49	13°49	13° 9	29° 7	n.a.	W15
T 16	9 30 34	24°36'00	19°19	27°24	23° 2	0°41	17°44	14° 1	13°17	13°34	18°50	13°47	13° 6	29°14	n.a.	T 16
F 17	9 34 31	25°35'35	1♊20	28°11	24°16	1°18	17°51	13°57	13°19	13°36	18°51	13°D47	13° 2	29°20	n.a.	F 17
S 18	9 38 27	26°35'08	13°11	29° 1	25°31	1°54	17°57	13°53	13°20	13°39	18°52	13°R48	12°59	29°27	n.a.	S 18
S 19	9 42 24	27°34'38	24°58	29°55	26°45	2°30	18° 4	13°49	13°22	13°41	18°53	13°47	12°56	29°34	n.a.	S 19
M20	9 46 21	28°34'06	6♋46	0♒52	28° 0	3° 7	18°10	13°44	13°23	13°43	18°53	13°45	12°53	29°40	n.a.	M20
T 21	9 50 17	29°33'32	18°40	1°51	29°14	3°43	18°17	13°40	13°25	13°45	18°54	13°40	12°50	29°47	n.a.	T 21
W22	9 54 14	0♓32'56	0♌43	2°53	0♓29	4°20	18°24	13°35	13°26	13°47	18°55	13°32	12°47	29°54	n.a.	W22
T 23	9 58 10	1°32'17	12°58	3°58	1°43	4°56	18°31	13°31	13°28	13°50	18°56	13°22	12°43	0♋ 0	n.a.	T 23
F 24	10 2 7	2°31'36	25°27	5° 5	2°58	5°32	18°39	13°26	13°29	13°52	18°57	13°10	12°40	0° 7	n.a.	F 24
S 25	10 6 3	3°30'52	8♍ 9	6°14	4°12	6° 9	18°46	13°22	13°30	13°54	18°58	12°57	12°37	0°14	n.a.	S 25
S 26	10 10 0	4°30'07	21° 6	7°26	5°27	6°45	18°54	13°17	13°31	13°56	18°59	12°44	12°34	0°20	n.a.	S 26
M27	10 13 56	5°29'19	4♎14	8°39	6°41	7°22	19° 2	13°13	13°33	13°59	19° 0	12°32	12°31	0°27	n.a.	M27
T 28	10 17 53	6♓28'30	17♎35	9♒55	7♓56	7♉58	19♉ 9	13♍ 8	13♐34	14♓ 1	19♈ 1	12♐23	12♐27	0♋34	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s 2	12s 0	4s 9	18s 7	3n14	20s35	1s14	9n16	0n47	16n26	0s33	8n21	2n34	22s40	0s 5	8s11	1s34	6s42	15s15	22s51	22s43	22n28		n.a.
T 2	17 46	16 11	3 21	18 24	3 3	20 18	1 15	9 30	0 48	16 28	0 32	8 22	2 34	22 41	0 5	8 10	1 34	6 42	15 14	22 51	22 43	22 27		n.a.
F 3	17 29	19 35	2 20	18 41	2 52	20 0	1 16	9 44	0 49	16 29	0 32	8 24	2 34	22 41	0 5	8 9	1 34	6 41	15 14	22 51	22 43	22 26		n.a.
S 4	17 12	21 55	1 9	18 57	2 39	19 42	1 17	9 58	0 49	16 30	0 32	8 25	2 35	22 41	0 5	8 8	1 34	6 41	15 14	22 51	22 42	22 26		n.a.
S 5	16 55	22 52	0n 7	19 12	2 26	19 23	1 18	10 12	0 50	16 32	0 32	8 27	2 35	22 42	0 5	8 8	1 34	6 40	15 14	22 51	22 42	22 25		n.a.
M 6	16 38	22 18	1 24	19 26	2 13	19 3	1 19	10 26	0 50	16 33	0 32	8 29	2 35	22 42	0 5	8 7	1 34	6 40	15 13	22 51	22 41	22 24		n.a.
T 7	16 20	20 12	2 36	19 40	2 0	18 43	1 20	10 40	0 51	16 35	0 31	8 30	2 35	22 42	0 5	8 6	1 34	6 39	15 13	22 50	22 41	22 23		n.a.
W 8	16 2	16 44	3 38	19 52	1 46	18 22	1 21	10 54	0 51	16 36	0 31	8 32	2 35	22 42	0 5	8 5	1 34	6 39	15 13	22 50	22 41	22 23		n.a.
T 9	15 43	12 13	4 25	20 3	1 33	18 1	1 22	11 8	0 52	16 38	0 31	8 33	2 36	22 43	0 6	8 4	1 34	6 38	15 12	22 49	22 40	22 22		n.a.
F 10	15 25	7 4	4 54	20 14	1 20	17 39	1 22	11 21	0 52	16 40	0 31	8 35	2 36	22 43	0 6	8 4	1 34	6 37	15 12	22 47	22 40	22 21		n.a.
S 11	15 6	1 39	5 4	20 23	1 7	17 17	1 23	11 35	0 53	16 41	0 30	8 37	2 36	22 43	0 6	8 3	1 34	6 37	15 12	22 46	22 39	22 20		n.a.
S 12	14 47	3n42	4 55	20 30	0 54	16 55	1 23	11 49	0 54	16 43	0 30	8 39	2 36	22 44	0 6	8 2	1 34	6 36	15 11	22 45	22 39	22 20		n.a.
M13	14 27	8 43	4 30	20 37	0 41	16 32	1 24	12 2	0 54	16 45	0 30	8 40	2 36	22 44	0 6	8 1	1 34	6 36	15 11	22 44	22 39	22 19		n.a.
T 14	14 8	13 10	3 51	20 43	0 29	16 8	1 24	12 16	0 54	16 47	0 30	8 42	2 36	22 44	0 6	8 0	1 34	6 35	15 11	22 43	22 38	22 18		n.a.
W15	13 48	16 54	3 3	20 47	0 17	15 44	1 25	12 29	0 55	16 49	0 30	8 44	2 37	22 44	0 6	7 59	1 34	6 35	15 11	22 43	22 38	22 17		n.a.
T 16	13 28	19 47	2 6	20 50	0 5	15 20	1 25	12 42	0 55	16 51	0 29	8 46	2 37	22 44	0 6	7 59	1 34	6 34	15 10	22 43	22 37	22 16		n.a.
F 17	13 8	21 44	1 6	20 51	0s 6	14 55	1 25	12 56	0 56	16 52	0 29	8 47	2 37	22 45	0 6	7 58	1 34	6 33	15 10	22 43	22 37	22 16		n.a.
S 18	12 48	22 41	0 3	20 51	0 17	14 30	1 25	13 9	0 56	16 54	0 29	8 49	2 37	22 45	0 6	7 57	1 34	6 33	15 10	22 43	22 37	22 15		n.a.
S 19	12 27	22 38	0s59	20 50	0 27	14 4	1 25	13 22	0 57	16 57	0 29	8 51	2 37	22 45	0 6	7 56	1 34	6 32	15 10	22 43	22 36	22 14		n.a.
M20	12 6	21 33	1 59	20 47	0 37	13 38	1 25	13 35	0 57	16 59	0 29	8 53	2 37	22 45	0 6	7 55	1 34	6 32	15 9	22 42	22 36	22 13		n.a.
T 21	11 45	19 31	2 54	20 43	0 46	13 12	1 25	13 48	0 58	17 1	0 28	8 55	2 37	22 46	0 6	7 54	1 34	6 31	15 9	22 42	22 35	22 12		n.a.
W22	11 24	16 37	3 42	20 38	0 56	12 45	1 25	14 1	0 58	17 3	0 28	8 56	2 37	22 46	0 6	7 53	1 34	6 31	15 9	22 41	22 35	22 11		n.a.
T 23	11 3	12 57	4 20	20 31	1 4	12 18	1 25	14 14	0 58	17 5	0 28	8 58	2 38	22 46	0 6	7 52	1 34	6 30	15 8	22 40	22 35	22 11		n.a.
F 24	10 41	8 41	4 47	20 23	1 12	11 51	1 25	14 26	0 59	17 7	0 28	9 0	2 38	22 46	0 6	7 52	1 34	6 29	15 8	22 38	22 34	22 10		n.a.
S 25	10 20	3 59	4 59	20 13	1 20	11 23	1 25	14 39	0 59	17 10	0 28	9 2	2 38	22 46	0 6	7 51	1 34	6 29	15 8	22 36	22 34	22 9		n.a.
S 26	9 58	0s59	4 57	20 2	1 28	10 55	1 24	14 52	1 0	17 12	0 27	9 4	2 38	22 46	0 6	7 50	1 34	6 28	15 8	22 35	22 33	22 8		n.a.
M27	9 36	5 58	4 40	19 49	1 34	10 27	1 24	15 4	1 0	17 14	0 27	9 6	2 38	22 47	0 6	7 49	1 34	6 28	15 7	22 33	22 33	22 7		n.a.
T 28	9s14	10s46	4s 6	19s35	1s41	9s59	1s23	15n17	1n 0	17n17	0s27	9n 7	2n38	22s47	0s 6	7s48	1s34	6s27	15s 7	22s32	22s33	22n 6		n.a.

Julian Day Number = 1680911.5, Delta T = 03h15m32s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'49, Lahiri = - 5°28'49 Julian Calendar 1 Feb. 111 BCE == Greg. Calendar 29 Jan. 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

MARCH 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	10 21 49	7♓27'38	1♏ 5	11♒12	9♓10	8♉35	19♉17	13°R 4	13♐35	14♓ 3	19♈ 2	12°R16	12♐24	0♋40	n.a.	W 1
T 2	10 25 46	8°26'45	14°45	12°31	10°25	9°11	19°26	12♍59	13°36	14° 5	19° 3	12♐13	12°21	0°47	n.a.	T 2
F 3	10 29 43	9°25'50	28°35	13°53	11°39	9°48	19°34	12°54	13°37	14° 8	19° 4	12°11	12°18	0°54	n.a.	F 3
S 4	10 33 39	10°24'53	12♐33	15°16	12°53	10°25	19°42	12°50	13°38	14°10	19° 6	12°11	12°15	1° 0	n.a.	S 4
S 5	10 37 36	11°23'54	26°41	16°40	14° 8	11° 1	19°51	12°45	13°39	14°12	19° 7	12°11	12°12	1° 7	n.a.	S 5
M 6	10 41 32	12°22'54	10♑57	18° 7	15°22	11°38	19°59	12°41	13°40	14°14	19° 8	12° 9	12° 8	1°14	n.a.	M 6
T 7	10 45 29	13°21'51	25°19	19°34	16°36	12°14	20° 8	12°36	13°40	14°17	19° 9	12° 5	12° 5	1°20	n.a.	T 7
W 8	10 49 25	14°20'47	9♒44	21° 4	17°51	12°51	20°17	12°31	13°41	14°19	19°10	11°58	12° 2	1°27	n.a.	W 8
T 9	10 53 22	15°19'41	24° 6	22°35	19° 5	13°28	20°26	12°27	13°42	14°21	19°11	11°48	11°59	1°33	n.a.	T 9
F 10	10 57 18	16°18'33	8♓21	24° 8	20°19	14° 4	20°35	12°22	13°42	14°23	19°12	11°37	11°56	1°40	n.a.	F 10
S 11	11 1 15	17°17'22	22°21	25°42	21°33	14°41	20°44	12°18	13°43	14°26	19°14	11°24	11°53	1°47	n.a.	S 11
S 12	11 5 12	18°16'10	6♈ 3	27°18	22°48	15°18	20°54	12°13	13°43	14°28	19°15	11°13	11°49	1°53	n.a.	S 12
M13	11 9 8	19°14'55	19°23	28°56	24° 2	15°54	21° 3	12° 8	13°44	14°30	19°16	11° 3	11°46	2° 0	n.a.	M13
T 14	11 13 5	20°13'38	2♉20	0♓35	25°16	16°31	21°13	12° 4	13°44	14°33	19°17	10°55	11°43	2° 7	n.a.	T 14
W15	11 17 1	21°12'19	14°55	2°15	26°30	17° 8	21°23	11°59	13°45	14°35	19°18	10°50	11°40	2°13	n.a.	W15
T 16	11 20 58	22°10'58	27°12	3°58	27°44	17°45	21°32	11°55	13°45	14°37	19°20	10°48	11°37	2°20	n.a.	T 16
F 17	11 24 54	23° 9'34	9♊14	5°41	28°58	18°21	21°42	11°50	13°45	14°39	19°21	10°D47	11°33	2°27	n.a.	F 17
S 18	11 28 51	24° 8'09	21° 7	7°27	0♈13	18°58	21°52	11°46	13°46	14°42	19°22	10°R47	11°30	2°33	n.a.	S 18
S 19	11 32 47	25° 6'40	2♋55	9°13	1°27	19°35	22° 2	11°41	13°46	14°44	19°23	10°47	11°27	2°40	n.a.	S 19
M20	11 36 44	26° 5'10	14°45	11° 2	2°41	20°12	22°13	11°37	13°46	14°46	19°25	10°45	11°24	2°47	n.a.	M20
T 21	11 40 40	27° 3'38	26°42	12°52	3°55	20°49	22°23	11°32	13°46	14°48	19°26	10°42	11°21	2°53	n.a.	T 21
W22	11 44 37	28° 2'03	8♌50	14°44	5° 9	21°25	22°33	11°28	13°R46	14°50	19°27	10°36	11°18	3° 0	n.a.	W22
T 23	11 48 34	29° 0'26	21°12	16°37	6°23	22° 2	22°44	11°24	13°46	14°53	19°28	10°27	11°14	3° 7	n.a.	T 23
F 24	11 52 30	29°58'47	3♍52	18°32	7°37	22°39	22°54	11°20	13°46	14°55	19°30	10°17	11°11	3°13	n.a.	F 24
S 25	11 56 27	0♈57'05	16°50	20°28	8°51	23°16	23° 5	11°15	13°46	14°57	19°31	10° 5	11° 8	3°20	n.a.	S 25
S 26	12 0 23	1°55'22	0♎ 6	22°27	10° 5	23°53	23°16	11°11	13°46	14°59	19°32	9°54	11° 5	3°27	n.a.	S 26
M27	12 4 20	2°53'37	13°37	24°26	11°19	24°30	23°27	11° 7	13°45	15° 1	19°33	9°43	11° 2	3°33	n.a.	M27
T 28	12 8 16	3°51'50	27°22	26°27	12°33	25° 6	23°38	11° 3	13°45	15° 4	19°35	9°35	10°58	3°40	n.a.	T 28
W29	12 12 13	4°50'01	11♏17	28°30	13°47	25°43	23°49	10°59	13°45	15° 6	19°36	9°30	10°55	3°47	n.a.	W29
T 30	12 16 9	5°48'11	25°18	0♈34	15° 0	26°20	24° 0	10°55	13°44	15° 8	19°37	9°27	10°52	3°53	n.a.	T 30
F 31	12 20 6	6♈46'19	9♐23	2♈39	16♈14	26♉57	24♉11	10♍51	13♐44	15♓10	19♈39	9°D26	10♐49	4♋ 0	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	8s52	15s 5	3s19	19s19	1s47	9s30	1s23	15n29	1n 1	17n19	0s27	9n 9	2n38	22s47	0s 6	7s47	1s34	6s26	15s 7	22s31	22s32	22n 5			n.a.
T 2	8 30	18 40	2 20	19 2	1 52	9 1	1 22	15 41	1 1	17 21	0 27	9 11	2 38	22 47	0 6	7 46	1 34	6 26	15 7	22 31	22 32	22 4			n.a.
F 3	8 7	21 14	1 11	18 43	1 57	8 32	1 22	15 53	1 2	17 24	0 26	9 13	2 38	22 47	0 6	7 45	1 34	6 25	15 7	22 30	22 31	22 4			n.a.
S 4	7 45	22 31	0n 2	18 23	2 2	8 2	1 21	16 5	1 2	17 26	0 26	9 15	2 38	22 47	0 6	7 45	1 34	6 25	15 6	22 30	22 31	22 3			n.a.
S 5	7 22	22 24	1 16	18 1	2 6	7 33	1 20	16 17	1 2	17 29	0 26	9 17	2 38	22 47	0 6	7 44	1 34	6 24	15 6	22 30	22 30	22 2			n.a.
M 6	6 59	20 50	2 26	17 38	2 10	7 3	1 19	16 29	1 3	17 31	0 26	9 19	2 38	22 48	0 6	7 43	1 34	6 23	15 6	22 30	22 30	22 1			n.a.
T 7	6 37	17 55	3 27	17 13	2 13	6 33	1 18	16 41	1 3	17 34	0 26	9 20	2 38	22 48	0 6	7 42	1 34	6 23	15 6	22 30	22 30	22 0			n.a.
W 8	6 14	13 55	4 15	16 46	2 16	6 2	1 17	16 52	1 3	17 36	0 26	9 22	2 38	22 48	0 6	7 41	1 34	6 22	15 6	22 29	22 29	21 59			n.a.
T 9	5 51	9 8	4 47	16 19	2 18	5 32	1 16	17 4	1 4	17 39	0 25	9 24	2 38	22 48	0 6	7 40	1 34	6 22	15 5	22 27	22 29	21 58			n.a.
F 10	5 28	3 54	5 0	15 49	2 20	5 2	1 15	17 15	1 4	17 42	0 25	9 26	2 38	22 48	0 6	7 39	1 34	6 21	15 5	22 26	22 28	21 57			n.a.
S 11	5 5	1n27	4 55	15 18	2 21	4 31	1 14	17 27	1 4	17 44	0 25	9 28	2 39	22 48	0 6	7 38	1 34	6 20	15 5	22 24	22 28	21 56			n.a.
S 12	4 41	6 36	4 33	14 45	2 22	4 0	1 13	17 38	1 5	17 47	0 25	9 29	2 39	22 48	0 6	7 38	1 34	6 20	15 5	22 22	22 27	21 55			n.a.
M13	4 18	11 19	3 57	14 11	2 22	3 29	1 12	17 49	1 5	17 50	0 25	9 31	2 39	22 48	0 6	7 37	1 34	6 19	15 5	22 21	22 27	21 55			n.a.
T 14	3 55	15 22	3 9	13 36	2 22	2 59	1 10	18 0	1 5	17 52	0 24	9 33	2 39	22 48	0 6	7 36	1 34	6 19	15 4	22 20	22 27	21 54			n.a.
W15	3 31	18 36	2 13	12 58	2 21	2 28	1 9	18 11	1 5	17 55	0 24	9 35	2 39	22 48	0 6	7 35	1 34	6 18	15 4	22 19	22 26	21 53			n.a.
T 16	3 8	20 55	1 12	12 20	2 20	1 56	1 8	18 22	1 6	17 58	0 24	9 36	2 39	22 48	0 6	7 34	1 34	6 17	15 4	22 19	22 26	21 52			n.a.
F 17	2 45	22 13	0 8	11 39	2 18	1 25	1 6	18 32	1 6	18 1	0 24	9 38	2 39	22 48	0 6	7 33	1 34	6 17	15 4	22 19	22 25	21 51			n.a.
S 18	2 21	22 30	0s55	10 58	2 15	0 54	1 5	18 43	1 6	18 3	0 24	9 40	2 38	22 48	0 6	7 32	1 34	6 16	15 4	22 19	22 25	21 50			n.a.
S 19	1 58	21 46	1 55	10 14	2 12	0 23	1 3	18 53	1 6	18 6	0 24	9 42	2 38	22 48	0 6	7 31	1 34	6 15	15 4	22 19	22 24	21 49			n.a.
M20	1 34	20 4	2 50	9 30	2 9	0n 8	1 1	19 4	1 7	18 9	0 23	9 43	2 38	22 49	0 6	7 31	1 34	6 15	15 3	22 19	22 24	21 48			n.a.
T 21	1 11	17 29	3 38	8 44	2 5	0 40	1 0	19 14	1 7	18 12	0 23	9 45	2 38	22 49	0 6	7 30	1 34	6 14	15 3	22 18	22 24	21 47			n.a.
W22	0 47	14 7	4 18	7 56	2 1	1 11	0 58	19 24	1 7	18 15	0 23	9 47	2 38	22 49	0 6	7 29	1 34	6 14	15 3	22 17	22 23	21 46			n.a.
T 23	0 24	10 5	4 46	7 7	1 56	1 42	0 56	19 34	1 7	18 17	0 23	9 48	2 38	22 49	0 6	7 28	1 34	6 13	15 3	22 16	22 23	21 45			n.a.
F 24	0 0	5 32	5 0	6 16	1 50	2 13	0 55	19 44	1 8	18 20	0 23	9 50	2 38	22 49	0 6	7 27	1 34	6 12	15 3	22 14	22 22	21 44			n.a.
S 25	0n23	0 39	5 0	5 24	1 44	2 44	0 53	19 54	1 8	18 23	0 23	9 51	2 38	22 49	0 6	7 26	1 34	6 12	15 3	22 13	22 22	21 43			n.a.
S 26	0 46	4s22	4 44	4 31	1 38	3 15	0 51	20 3	1 8	18 26	0 23	9 53	2 38	22 49	0 6	7 26	1 34	6 11	15 3	22 11	22 21	21 42			n.a.
M27	1 10	9 17	4 12	3 37	1 30	3 46	0 49	20 13	1 8	18 29	0 22	9 54	2 38	22 49	0 6	7 25	1 34	6 11	15 2	22 9	22 21	21 41			n.a.
T 28	1 33	13 49	3 24	2 41	1 23	4 17	0 47	20 22	1 9	18 32	0 22	9 56	2 38	22 49	0 6	7 24	1 34	6 10	15 2	22 8	22 20	21 40			n.a.
W29	1 56	17 40	2 24	1 45	1 15	4 48	0 45	20 31	1 9	18 35	0 22	9 57	2 38	22 48	0 6	7 23	1 34	6 10	15 2	22 7	22 20	21 39			n.a.
T 30	2 20	20 31	1 15	0 47	1 6	5 19	0 43	20 40	1 9	18 38	0 22	9 59	2 38	22 48	0 6	7 22	1 34	6 9	15 2	22 7	22 20	21 38			n.a.
F 31	2n43	22s 7	0s 0	0n11	0s57	5n50	0s41	20n49	1n 9	18n41	0s22	10n 0	2n38	22s48	0s 6	7s21	1s34	6s 8	15s 2	22s 7	22s19	21n37			n.a.

Julian Day Number = 1680939.5, Delta T = 03h15m31s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'45, Lahiri = - 5°28'45 Julian Calendar 1 March 111 BCE == Greg. Calendar 26 Feb. 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

APRIL 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 24 3	7♈44'26	23♐31	4♈46	17♈28	27♉34	24♉22	10°R47	13°R43	15♓12	19♈40	9♐26	10♐46	4♋ 7	n.a.	S 1
S 2	12 27 59	8°42'31	7♑39	6°53	18°42	28°11	24°34	10♍43	13♐43	15°14	19°41	9°R27	10°43	4°13	n.a.	S 2
M 3	12 31 56	9°40'35	21°47	9° 2	19°56	28°48	24°45	10°40	13°42	15°16	19°43	9°26	10°39	4°20	n.a.	M 3
T 4	12 35 52	10°38'38	5♒54	11°11	21°10	29°25	24°56	10°36	13°42	15°19	19°44	9°24	10°36	4°27	n.a.	T 4
W 5	12 39 49	11°36'38	19°56	13°20	22°23	0♊ 2	25° 8	10°32	13°41	15°21	19°45	9°19	10°33	4°33	n.a.	W 5
T 6	12 43 45	12°34'38	3♓53	15°30	23°37	0°39	25°20	10°29	13°40	15°23	19°47	9°12	10°30	4°40	n.a.	T 6
F 7	12 47 42	13°32'35	17°40	17°40	24°51	1°15	25°31	10°25	13°39	15°25	19°48	9° 3	10°27	4°46	n.a.	F 7
S 8	12 51 38	14°30'32	1♈15	19°49	26° 5	1°52	25°43	10°22	13°39	15°27	19°50	8°54	10°24	4°53	n.a.	S 8
S 9	12 55 35	15°28'26	14°36	21°58	27°18	2°29	25°55	10°18	13°38	15°29	19°51	8°45	10°20	5° 0	n.a.	S 9
M10	12 59 31	16°26'20	27°39	24° 6	28°32	3° 6	26° 7	10°15	13°37	15°31	19°52	8°37	10°17	5° 6	n.a.	M10
T 11	13 3 28	17°24'11	10♉24	26°13	29°46	3°43	26°19	10°12	13°36	15°33	19°54	8°32	10°14	5°13	n.a.	T 11
W12	13 7 25	18°22'01	22°52	28°18	0♉59	4°20	26°31	10° 9	13°35	15°35	19°55	8°28	10°11	5°20	n.a.	W12
T 13	13 11 21	19°19'49	5♊ 5	0♉22	2°13	4°57	26°43	10° 6	13°34	15°37	19°56	8°D27	10° 8	5°26	n.a.	T 13
F 14	13 15 18	20°17'36	17° 6	2°24	3°27	5°34	26°55	10° 3	13°33	15°39	19°58	8°27	10° 4	5°33	n.a.	F 14
S 15	13 19 14	21°15'20	28°58	4°23	4°40	6°11	27° 7	10° 0	13°32	15°41	19°59	8°28	10° 1	5°40	n.a.	S 15
S 16	13 23 11	22°13'03	10♋48	6°20	5°54	6°48	27°20	9°57	13°30	15°43	20° 0	8°30	9°58	5°46	n.a.	S 16
M17	13 27 7	23°10'45	22°39	8°15	7° 7	7°25	27°32	9°54	13°29	15°45	20° 2	8°R30	9°55	5°53	n.a.	M17
T 18	13 31 4	24° 8'24	4♌36	10° 7	8°21	8° 2	27°45	9°51	13°28	15°46	20° 3	8°30	9°52	6° 0	n.a.	T 18
W19	13 35 0	25° 6'02	16°46	11°56	9°34	8°39	27°57	9°49	13°27	15°48	20° 4	8°27	9°49	6° 6	n.a.	W19
T 20	13 38 57	26° 3'39	29°11	13°42	10°48	9°16	28° 9	9°46	13°25	15°50	20° 6	8°23	9°45	6°13	n.a.	T 20
F 21	13 42 54	27° 1'13	11♍56	15°25	12° 1	9°53	28°22	9°44	13°24	15°52	20° 7	8°18	9°42	6°20	n.a.	F 21
S 22	13 46 50	27°58'46	25° 3	17° 5	13°15	10°31	28°35	9°42	13°22	15°54	20° 9	8°12	9°39	6°26	n.a.	S 22
S 23	13 50 47	28°56'18	8♎32	18°42	14°28	11° 8	28°47	9°39	13°21	15°55	20°10	8° 5	9°36	6°33	n.a.	S 23
M24	13 54 43	29°53'49	22°22	20°15	15°42	11°45	29° 0	9°37	13°19	15°57	20°11	7°59	9°33	6°40	n.a.	M24
T 25	13 58 40	0♉51'18	6♏28	21°46	16°55	12°22	29°13	9°35	13°18	15°59	20°13	7°55	9°29	6°46	n.a.	T 25
W26	14 2 36	1°48'46	20°48	23°13	18° 9	12°59	29°26	9°33	13°16	16° 1	20°14	7°52	9°26	6°53	n.a.	W26
T 27	14 6 33	2°46'13	5♐15	24°37	19°22	13°36	29°38	9°31	13°15	16° 2	20°15	7°D51	9°23	7° 0	n.a.	T 27
F 28	14 10 29	3°43'39	19°45	25°57	20°35	14°13	29°51	9°30	13°13	16° 4	20°17	7°51	9°20	7° 6	n.a.	F 28
S 29	14 14 26	4°41'04	4♑12	27°14	21°49	14°50	0♊ 4	9°28	13°11	16° 6	20°18	7°53	9°17	7°13	n.a.	S 29
S 30	14 18 23	5♉38'28	18♑33	28♉28	23♉ 2	15♊27	0♊17	9♍26	13♐10	16♓ 7	20♈19	7♐54	9♐14	7♋20	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 6	22s18	1n15	1n11	0s48	6n20	0s39	20n58	1n 9	18n44	0s22	10n 2	2n38	22s48	0s 6	7s21	1s35	6s 8	15s 2	22s 7	22s19	21n36		n.a.
S 2	3 29	21 4	2 25	2 11	0 38	6 51	0 37	21 6	1 10	18 47	0 21	10 3	2 38	22 48	0 6	7 20	1 35	6 7	15 2	22 7	22 18	21 35		n.a.
M 3	3 53	18 32	3 26	3 11	0 28	7 21	0 34	21 15	1 10	18 49	0 21	10 5	2 37	22 48	0 6	7 19	1 35	6 7	15 2	22 7	22 18	21 34		n.a.
T 4	4 16	14 53	4 15	4 12	0 18	7 51	0 32	21 23	1 10	18 52	0 21	10 6	2 37	22 48	0 6	7 18	1 35	6 6	15 2	22 6	22 17	21 33		n.a.
W 5	4 39	10 26	4 48	5 12	0 8	8 21	0 30	21 31	1 10	18 55	0 21	10 7	2 37	22 48	0 6	7 17	1 35	6 6	15 2	22 6	22 17	21 32		n.a.
T 6	5 1	5 29	5 4	6 13	0n 3	8 51	0 28	21 40	1 10	18 58	0 21	10 8	2 37	22 48	0 6	7 17	1 35	6 5	15 2	22 5	22 16	21 31		n.a.
F 7	5 24	0 18	5 2	7 13	0 14	9 20	0 25	21 47	1 10	19 1	0 21	10 10	2 37	22 48	0 6	7 16	1 35	6 4	15 2	22 3	22 16	21 30		n.a.
S 8	5 47	4n49	4 43	8 13	0 24	9 49	0 23	21 55	1 11	19 4	0 21	10 11	2 37	22 48	0 6	7 15	1 35	6 4	15 1	22 2	22 15	21 29		n.a.
S 9	6 9	9 37	4 8	9 11	0 35	10 18	0 21	22 3	1 11	19 7	0 20	10 12	2 37	22 48	0 6	7 14	1 35	6 3	15 1	22 0	22 15	21 28		n.a.
M10	6 32	13 53	3 21	10 9	0 45	10 47	0 18	22 10	1 11	19 10	0 20	10 13	2 37	22 48	0 6	7 14	1 35	6 3	15 1	21 59	22 14	21 27		n.a.
T 11	6 54	17 24	2 25	11 6	0 56	11 16	0 16	22 18	1 11	19 13	0 20	10 14	2 36	22 48	0 6	7 13	1 35	6 2	15 1	21 58	22 14	21 26		n.a.
W12	7 17	20 2	1 23	12 1	1 6	11 44	0 14	22 25	1 11	19 16	0 20	10 15	2 36	22 47	0 6	7 12	1 35	6 2	15 1	21 58	22 14	21 25		n.a.
T 13	7 39	21 41	0 18	12 54	1 15	12 12	0 11	22 32	1 11	19 19	0 20	10 16	2 36	22 47	0 6	7 11	1 35	6 1	15 1	21 58	22 13	21 23		n.a.
F 14	8 1	22 18	0s47	13 46	1 24	12 40	0 9	22 39	1 12	19 22	0 20	10 17	2 36	22 47	0 6	7 11	1 35	6 1	15 1	21 58	22 13	21 22		n.a.
S 15	8 23	21 53	1 49	14 35	1 33	13 7	0 6	22 46	1 12	19 25	0 20	10 18	2 36	22 47	0 6	7 10	1 35	6 0	15 1	21 58	22 12	21 21		n.a.
S 16	8 45	20 30	2 46	15 22	1 41	13 35	0 4	22 52	1 12	19 28	0 19	10 19	2 36	22 47	0 6	7 9	1 35	6 0	15 1	21 58	22 12	21 20		n.a.
M17	9 6	18 14	3 36	16 8	1 49	14 1	0 1	22 59	1 12	19 31	0 19	10 20	2 36	22 47	0 6	7 8	1 35	5 59	15 1	21 58	22 11	21 19		n.a.
T 18	9 28	15 9	4 18	16 51	1 56	14 28	0n 1	23 5	1 12	19 34	0 19	10 21	2 35	22 47	0 6	7 8	1 35	5 59	15 1	21 58	22 11	21 18		n.a.
W19	9 49	11 25	4 48	17 31	2 2	14 54	0 4	23 11	1 12	19 37	0 19	10 22	2 35	22 47	0 6	7 7	1 35	5 58	15 1	21 58	22 10	21 17		n.a.
T 20	10 10	7 7	5 6	18 9	2 8	15 20	0 6	23 17	1 12	19 40	0 19	10 23	2 35	22 46	0 7	7 6	1 35	5 58	15 1	21 57	22 10	21 16		n.a.
F 21	10 31	2 24	5 9	18 45	2 12	15 45	0 9	23 23	1 12	19 43	0 19	10 24	2 35	22 46	0 7	7 6	1 35	5 57	15 1	21 56	22 9	21 15		n.a.
S 22	10 52	2s33	4 57	19 18	2 17	16 10	0 11	23 28	1 13	19 46	0 19	10 24	2 35	22 46	0 7	7 5	1 35	5 57	15 1	21 55	22 9	21 14		n.a.
S 23	11 13	7 31	4 28	19 49	2 20	16 35	0 14	23 34	1 13	19 49	0 19	10 25	2 35	22 46	0 7	7 4	1 35	5 56	15 1	21 54	22 8	21 13		n.a.
M24	11 34	12 14	3 42	20 17	2 22	16 59	0 16	23 39	1 13	19 52	0 18	10 26	2 34	22 46	0 7	7 4	1 35	5 56	15 1	21 53	22 8	21 11		n.a.
T 25	11 54	16 23	2 43	20 44	2 24	17 22	0 19	23 44	1 13	19 55	0 18	10 26	2 34	22 46	0 7	7 3	1 35	5 55	15 1	21 52	22 7	21 10		n.a.
W26	12 14	19 38	1 32	21 7	2 25	17 46	0 21	23 49	1 13	19 57	0 18	10 27	2 34	22 45	0 7	7 2	1 35	5 55	15 1	21 52	22 7	21 9		n.a.
T 27	12 34	21 39	0 14	21 29	2 25	18 9	0 24	23 54	1 13	20 0	0 18	10 27	2 34	22 45	0 7	7 2	1 35	5 54	15 1	21 52	22 6	21 8		n.a.
F 28	12 54	22 14	1n 5	21 48	2 24	18 31	0 26	23 58	1 13	20 3	0 18	10 28	2 34	22 45	0 7	7 1	1 35	5 54	15 1	21 52	22 6	21 7		n.a.
S 29	13 14	21 19	2 19	22 5	2 23	18 53	0 29	24 3	1 13	20 6	0 18	10 28	2 33	22 45	0 7	7 1	1 36	5 53	15 1	21 52	22 5	21 6		n.a.
S 30	13n33	19s 2	3n24	22n19	2n21	19n14	0n31	24n 7	1n13	20n 9	0s18	10n29	2n33	22s45	0s 7	7s 0	1s36	5s53	15s 2	21s52	22s 5	21n 5		n.a.

Julian Day Number = 1680970.5, Delta T = 03h15m30s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'41, Lahiri = - 5°28'41 Julian Calendar 1 Apr. 111 BCE == Greg. Calendar 29 March 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

MAY 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	14 22 19	6♉35'52	2♒45	29♉38	24♉15	16♊ 4	0♊30	9°R25	13°R 8	16♓ 9	20♈21	7°R55	9♐10	7♋26	n.a.	M 1
T 2	14 26 16	7°33'15	16°46	0♊44	25°28	16°41	0°43	9♍23	13♐ 6	16°11	20°22	7♐55	9° 7	7°33	n.a.	T 2
W 3	14 30 12	8°30'37	0♓36	1°47	26°42	17°18	0°56	9°22	13° 4	16°12	20°23	7°53	9° 4	7°40	n.a.	W 3
T 4	14 34 9	9°27'58	14°13	2°46	27°55	17°56	1° 9	9°21	13° 2	16°14	20°24	7°50	9° 1	7°46	n.a.	T 4
F 5	14 38 5	10°25'19	27°37	3°42	29° 8	18°33	1°22	9°20	13° 0	16°15	20°26	7°46	8°58	7°53	n.a.	F 5
S 6	14 42 2	11°22'39	10♈48	4°34	0♊21	19°10	1°36	9°19	12°59	16°17	20°27	7°42	8°55	8° 0	n.a.	S 6
S 7	14 45 58	12°19'58	23°44	5°21	1°34	19°47	1°49	9°18	12°57	16°18	20°28	7°38	8°51	8° 6	n.a.	S 7
M 8	14 49 55	13°17'17	6♉27	6° 5	2°48	20°24	2° 2	9°17	12°55	16°20	20°30	7°35	8°48	8°13	n.a.	M 8
T 9	14 53 52	14°14'34	18°55	6°45	4° 1	21° 1	2°15	9°16	12°53	16°21	20°31	7°33	8°45	8°20	n.a.	T 9
W10	14 57 48	15°11'51	1♊12	7°20	5°14	21°39	2°28	9°16	12°51	16°22	20°32	7°32	8°42	8°26	n.a.	W10
T 11	15 1 45	16° 9'08	13°17	7°52	6°27	22°16	2°42	9°15	12°48	16°24	20°33	7°D32	8°39	8°33	n.a.	T 11
F 12	15 5 41	17° 6'23	25°13	8°19	7°40	22°53	2°55	9°15	12°46	16°25	20°35	7°33	8°35	8°40	n.a.	F 12
S 13	15 9 38	18° 3'38	7♋ 4	8°41	8°53	23°30	3° 8	9°14	12°44	16°26	20°36	7°34	8°32	8°46	n.a.	S 13
S 14	15 13 34	19° 0'51	18°53	8°59	10° 6	24° 7	3°22	9°14	12°42	16°28	20°37	7°36	8°29	8°53	n.a.	S 14
M15	15 17 31	19°58'04	0♌44	9°13	11°19	24°45	3°35	9°14	12°40	16°29	20°38	7°37	8°26	9° 0	n.a.	M15
T 16	15 21 27	20°55'16	12°41	9°21	12°32	25°22	3°49	9°D14	12°38	16°30	20°39	7°38	8°23	9° 6	n.a.	T 16
W17	15 25 24	21°52'27	24°50	9°R26	13°45	25°59	4° 2	9°14	12°36	16°31	20°41	7°R38	8°20	9°13	n.a.	W17
T 18	15 29 21	22°49'37	7♍14	9°26	14°58	26°36	4°15	9°14	12°33	16°32	20°42	7°37	8°16	9°20	n.a.	T 18
F 19	15 33 17	23°46'47	19°59	9°21	16°11	27°14	4°29	9°15	12°31	16°34	20°43	7°36	8°13	9°26	n.a.	F 19
S 20	15 37 14	24°43'55	3♎ 6	9°12	17°24	27°51	4°42	9°15	12°29	16°35	20°44	7°35	8°10	9°33	n.a.	S 20
S 21	15 41 10	25°41'04	16°39	8°59	18°37	28°28	4°56	9°15	12°27	16°36	20°45	7°33	8° 7	9°40	n.a.	S 21
M22	15 45 7	26°38'11	0♏36	8°41	19°50	29° 6	5° 9	9°16	12°24	16°37	20°46	7°32	8° 4	9°46	n.a.	M22
T 23	15 49 3	27°35'18	14°56	8°20	21° 3	29°43	5°23	9°17	12°22	16°38	20°48	7°31	8° 1	9°53	n.a.	T 23
W24	15 53 0	28°32'25	29°34	7°56	22°15	0♋20	5°36	9°17	12°20	16°39	20°49	7°30	7°57	10° 0	n.a.	W24
T 25	15 56 57	29°29'32	14♐24	7°28	23°28	0°57	5°50	9°18	12°17	16°40	20°50	7°D30	7°54	10° 6	n.a.	T 25
F 26	16 0 53	0♊26'38	29°18	6°58	24°41	1°35	6° 4	9°19	12°15	16°41	20°51	7°31	7°51	10°13	n.a.	F 26
S 27	16 4 50	1°23'44	14♑ 9	6°25	25°54	2°12	6°17	9°20	12°13	16°42	20°52	7°31	7°48	10°20	n.a.	S 27
S 28	16 8 46	2°20'51	28°49	5°51	27° 6	2°50	6°31	9°21	12°10	16°42	20°53	7°32	7°45	10°26	n.a.	S 28
M29	16 12 43	3°17'57	13♒15	5°16	28°19	3°27	6°44	9°23	12° 8	16°43	20°54	7°32	7°41	10°33	n.a.	M29
T 30	16 16 39	4°15'04	27°22	4°40	29°32	4° 4	6°58	9°24	12° 5	16°44	20°55	7°32	7°38	10°40	n.a.	T 30
W31	16 20 36	5♊12'10	11♓ 9	4♊ 5	0♋44	4♋42	7♊11	9♍26	12♐ 3	16♓45	20♈56	7°R32	7♐35	10♋46	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat
M 1	13n52	15s36	4n16	22n32	2n17	19n35	0n33	24n11	1n13	20n12	0s18	10n29	2n33	22s44	0s 7	6s59	1s36	5s53	15s 2	21s52	22s 4	21n 3					n.a.
T 2	14 11	11 20	4 52	22 42	2 13	19 55	0 36	24 15	1 13	20 15	0 17	10 29	2 33	22 44	0 7	6 59	1 36	5 52	15 2	21 52	22 4	21 2					n.a.
W 3	14 30	6 33	5 11	22 51	2 8	20 15	0 38	24 19	1 13	20 18	0 17	10 30	2 33	22 44	0 7	6 58	1 36	5 52	15 2	21 52	22 3	21 1					n.a.
T 4	14 48	1 30	5 11	22 57	2 3	20 35	0 41	24 22	1 14	20 20	0 17	10 30	2 32	22 44	0 7	6 58	1 36	5 51	15 2	21 52	22 3	21 0					n.a.
F 5	15 7	3n33	4 55	23 2	1 56	20 53	0 43	24 26	1 14	20 23	0 17	10 30	2 32	22 43	0 7	6 57	1 36	5 51	15 2	21 51	22 2	20 59					n.a.
S 6	15 25	8 20	4 23	23 4	1 49	21 12	0 45	24 29	1 14	20 26	0 17	10 31	2 32	22 43	0 7	6 57	1 36	5 51	15 2	21 50	22 2	20 58					n.a.
S 7	15 43	12 41	3 38	23 5	1 40	21 29	0 48	24 32	1 14	20 29	0 17	10 31	2 32	22 43	0 7	6 56	1 36	5 50	15 2	21 50	22 1	20 57					n.a.
M 8	16 0	16 22	2 43	23 4	1 31	21 46	0 50	24 35	1 14	20 32	0 17	10 31	2 32	22 43	0 7	6 56	1 36	5 50	15 2	21 49	22 1	20 55					n.a.
T 9	16 17	19 15	1 41	23 1	1 22	22 3	0 52	24 38	1 14	20 34	0 17	10 31	2 31	22 43	0 7	6 55	1 36	5 49	15 2	21 49	22 0	20 54					n.a.
W10	16 35	21 12	0 35	22 57	1 11	22 18	0 55	24 40	1 14	20 37	0 16	10 31	2 31	22 42	0 7	6 54	1 36	5 49	15 2	21 49	22 0	20 53					n.a.
T 11	16 51	22 7	0s32	22 51	0 59	22 34	0 57	24 42	1 14	20 40	0 16	10 31	2 31	22 42	0 7	6 54	1 36	5 49	15 2	21 49	21 59	20 52					n.a.
F 12	17 8	22 1	1 36	22 43	0 47	22 48	0 59	24 45	1 14	20 43	0 16	10 31	2 31	22 42	0 7	6 54	1 36	5 48	15 3	21 49	21 59	20 51					n.a.
S 13	17 24	20 55	2 36	22 34	0 34	23 2	1 1	24 47	1 14	20 45	0 16	10 31	2 31	22 41	0 7	6 53	1 36	5 48	15 3	21 49	21 58	20 49					n.a.
S 14	17 40	18 55	3 29	22 23	0 21	23 15	1 3	24 48	1 14	20 48	0 16	10 31	2 30	22 41	0 7	6 53	1 36	5 48	15 3	21 49	21 58	20 48					n.a.
M15	17 56	16 6	4 13	22 11	0 7	23 28	1 5	24 50	1 14	20 51	0 16	10 31	2 30	22 41	0 7	6 52	1 36	5 47	15 3	21 49	21 57	20 47					n.a.
T 16	18 11	12 36	4 47	21 58	0s 8	23 40	1 7	24 51	1 14	20 53	0 16	10 30	2 30	22 41	0 7	6 52	1 36	5 47	15 3	21 50	21 57	20 46					n.a.
W17	18 26	8 33	5 9	21 43	0 24	23 51	1 9	24 53	1 14	20 56	0 16	10 30	2 30	22 40	0 7	6 51	1 36	5 47	15 3	21 50	21 56	20 45					n.a.
T 18	18 41	4 3	5 17	21 28	0 39	24 2	1 11	24 54	1 14	20 59	0 16	10 30	2 29	22 40	0 7	6 51	1 36	5 46	15 3	21 50	21 56	20 43					n.a.
F 19	18 56	0s43	5 9	21 11	0 56	24 12	1 13	24 55	1 14	21 1	0 15	10 30	2 29	22 40	0 7	6 51	1 37	5 46	15 3	21 49	21 55	20 42					n.a.
S 20	19 10	5 37	4 46	20 53	1 12	24 21	1 15	24 55	1 14	21 4	0 15	10 29	2 29	22 40	0 7	6 50	1 37	5 46	15 4	21 49	21 55	20 41					n.a.
S 21	19 24	10 24	4 6	20 35	1 29	24 29	1 17	24 56	1 14	21 6	0 15	10 29	2 29	22 39	0 7	6 50	1 37	5 46	15 4	21 49	21 54	20 40					n.a.
M22	19 37	14 47	3 11	20 16	1 45	24 37	1 19	24 56	1 14	21 9	0 15	10 28	2 29	22 39	0 7	6 49	1 37	5 45	15 4	21 49	21 54	20 38					n.a.
T 23	19 51	18 26	2 2	19 56	2 2	24 44	1 20	24 57	1 14	21 12	0 15	10 28	2 28	22 39	0 7	6 49	1 37	5 45	15 4	21 49	21 53	20 37					n.a.
W24	20 3	21 0	0 44	19 36	2 18	24 51	1 22	24 57	1 14	21 14	0 15	10 27	2 28	22 38	0 7	6 49	1 37	5 45	15 4	21 48	21 53	20 36					n.a.
T 25	20 16	22 9	0n38	19 16	2 34	24 56	1 24	24 56	1 14	21 17	0 15	10 27	2 28	22 38	0 7	6 48	1 37	5 44	15 4	21 48	21 52	20 35					n.a.
F 26	20 28	21 44	1 58	18 56	2 49	25 1	1 25	24 56	1 14	21 19	0 15	10 26	2 28	22 38	0 7	6 48	1 37	5 44	15 4	21 48	21 52	20 33					n.a.
S 27	20 40	19 48	3 10	18 36	3 4	25 5	1 27	24 55	1 14	21 22	0 15	10 26	2 28	22 37	0 7	6 48	1 37	5 44	15 5	21 49	21 51	20 32					n.a.
S 28	20 52	16 35	4 8	18 17	3 18	25 9	1 28	24 55	1 14	21 24	0 15	10 25	2 27	22 37	0 7	6 48	1 37	5 44	15 5	21 49	21 51	20 31					n.a.
M29	21 3	12 24	4 50	17 58	3 31	25 11	1 30	24 54	1 14	21 26	0 14	10 24	2 27	22 37	0 7	6 47	1 37	5 44	15 5	21 49	21 50	20 30					n.a.
T 30	21 14	7 38	5 13	17 40	3 42	25 13	1 31	24 53	1 14	21 29	0 14	10 24	2 27	22 37	0 7	6 47	1 37	5 43	15 5	21 49	21 50	20 28					n.a.
W31	21n24	2s35	5n17	17n23	3s53	25n15	1n32	24n51	1n14	21n31	0s14	10n23	2n27	22s36	0s 7	6s47	1s37	5s43	15s 5	21s49	21s49	20n27					n.a.

Julian Day Number = 1681000.5, Delta T = 03h15m29s
Ecliptic obliquity = 23°42'28, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'37, Lahiri = - 5°28'36 Julian Calendar 1 May 111 BCE == Greg. Calendar 28 Apr. 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

JUNE 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 24 32	6♊ 9'17	24♓37	3°R30	1♋57	5♋19	7♊25	9♍27	12°R 1	16♓46	20♈57	7°R32	7♐32	10♋53	n.a.	T 1
F 2	16 28 29	7° 6'24	7♈45	2♊57	3°10	5°56	7°38	9°29	11♐58	16°46	20°58	7°D32	7°29	11° 0	n.a.	F 2
S 3	16 32 26	8° 3'32	20°37	2°25	4°22	6°34	7°52	9°30	11°56	16°47	20°59	7♐32	7°26	11° 6	n.a.	S 3
S 4	16 36 22	9° 0'39	3♉14	1°56	5°35	7°11	8° 6	9°32	11°53	16°48	21° 0	7°32	7°22	11°13	n.a.	S 4
M 5	16 40 19	9°57'47	15°38	1°30	6°47	7°49	8°19	9°34	11°51	16°48	21° 1	7°32	7°19	11°20	n.a.	M 5
T 6	16 44 15	10°54'56	27°51	1° 7	8° 0	8°26	8°33	9°36	11°48	16°49	21° 2	7°33	7°16	11°26	n.a.	T 6
W 7	16 48 12	11°52'04	9♊55	0°48	9°12	9° 4	8°46	9°38	11°46	16°49	21° 3	7°R33	7°13	11°33	n.a.	W 7
T 8	16 52 8	12°49'13	21°52	0°34	10°25	9°41	9° 0	9°41	11°44	16°50	21° 4	7°33	7°10	11°40	n.a.	T 8
F 9	16 56 5	13°46'22	3♋44	0°24	11°37	10°19	9°13	9°43	11°41	16°50	21° 5	7°32	7° 7	11°46	n.a.	F 9
S 10	17 0 1	14°43'31	15°33	0°18	12°50	10°56	9°27	9°45	11°39	16°51	21° 6	7°31	7° 3	11°53	n.a.	S 10
S 11	17 3 58	15°40'40	27°21	0°D18	14° 2	11°34	9°40	9°48	11°36	16°51	21° 7	7°30	7° 0	12° 0	n.a.	S 11
M12	17 7 55	16°37'49	9♌13	0°23	15°14	12°11	9°54	9°50	11°34	16°52	21° 7	7°29	6°57	12° 6	n.a.	M12
T 13	17 11 51	17°34'58	21°11	0°33	16°27	12°49	10° 8	9°53	11°31	16°52	21° 8	7°28	6°54	12°13	n.a.	T 13
W14	17 15 48	18°32'08	3♍19	0°48	17°39	13°27	10°21	9°56	11°29	16°52	21° 9	7°27	6°51	12°20	n.a.	W14
T 15	17 19 44	19°29'17	15°42	1° 9	18°51	14° 4	10°34	9°59	11°27	16°53	21°10	7°D27	6°47	12°26	n.a.	T 15
F 16	17 23 41	20°26'27	28°23	1°35	20° 4	14°42	10°48	10° 2	11°24	16°53	21°11	7°27	6°44	12°33	n.a.	F 16
S 17	17 27 37	21°23'37	11♎25	2° 6	21°16	15°19	11° 1	10° 5	11°22	16°53	21°11	7°27	6°41	12°40	n.a.	S 17
S 18	17 31 34	22°20'47	24°53	2°43	22°28	15°57	11°15	10° 8	11°20	16°53	21°12	7°28	6°38	12°46	n.a.	S 18
M19	17 35 30	23°17'58	8♏48	3°25	23°40	16°35	11°28	10°11	11°17	16°53	21°13	7°30	6°35	12°53	n.a.	M19
T 20	17 39 27	24°15'09	23° 9	4°13	24°52	17°12	11°42	10°14	11°15	16°54	21°14	7°30	6°32	13° 0	n.a.	T 20
W21	17 43 24	25°12'20	7♐52	5° 5	26° 4	17°50	11°55	10°18	11°12	16°54	21°14	7°R31	6°28	13° 6	n.a.	W21
T 22	17 47 20	26° 9'32	22°53	6° 3	27°16	18°28	12° 8	10°21	11°10	16°54	21°15	7°30	6°25	13°13	n.a.	T 22
F 23	17 51 17	27° 6'45	8♑ 4	7° 6	28°28	19° 5	12°22	10°25	11° 8	16°54	21°16	7°29	6°22	13°20	n.a.	F 23
S 24	17 55 13	28° 3'58	23°13	8°14	29°40	19°43	12°35	10°28	11° 6	16°R54	21°16	7°27	6°19	13°26	n.a.	S 24
S 25	17 59 10	29° 1'12	8♒13	9°27	0♌52	20°21	12°48	10°32	11° 3	16°54	21°17	7°24	6°16	13°33	n.a.	S 25
M26	18 3 6	29°58'28	22°56	10°45	2° 4	20°59	13° 1	10°36	11° 1	16°54	21°18	7°21	6°13	13°40	n.a.	M26
T 27	18 7 3	0♋55'44	7♓14	12° 7	3°16	21°36	13°15	10°40	10°59	16°54	21°18	7°19	6° 9	13°46	n.a.	T 27
W28	18 11 0	1°53'01	21° 8	13°34	4°27	22°14	13°28	10°44	10°57	16°53	21°19	7°18	6° 6	13°53	n.a.	W28
T 29	18 14 56	2°50'19	4♈35	15° 6	5°39	22°52	13°41	10°48	10°54	16°53	21°19	7°D17	6° 3	14° 0	n.a.	T 29
F 30	18 18 53	3♋47'39	17♈38	16♊41	6♌51	23♋30	13♊54	10♍52	10♐52	16♓53	21♈20	7♐18	6♐ 0	14♋ 6	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21n35	2n28	5n 4	17n 7	4s 2	25n15	1n33	24n50	1n14	21n34	0s14	10n22	2n26	22s36	0s 7	6s46	1s37	5s43	15s 6	21s49	21s49	20n26		n.a.
F 2	21 44	7 18	4 35	16 53	4 10	25 15	1 35	24 48	1 14	21 36	0 14	10 21	2 26	22 36	0 7	6 46	1 37	5 43	15 6	21 49	21 48	20 25		n.a.
S 3	21 54	11 43	3 52	16 41	4 17	25 14	1 36	24 46	1 14	21 38	0 14	10 20	2 26	22 35	0 7	6 46	1 37	5 43	15 6	21 49	21 48	20 23		n.a.
S 4	22 3	15 32	2 59	16 31	4 22	25 12	1 37	24 44	1 14	21 41	0 14	10 20	2 26	22 35	0 7	6 46	1 37	5 42	15 6	21 49	21 47	20 22		n.a.
M 5	22 12	18 36	1 59	16 22	4 25	25 9	1 38	24 42	1 14	21 43	0 14	10 19	2 26	22 35	0 7	6 46	1 38	5 42	15 6	21 49	21 47	20 21		n.a.
T 6	22 20	20 46	0 54	16 16	4 27	25 6	1 39	24 40	1 14	21 45	0 14	10 18	2 25	22 34	0 7	6 45	1 38	5 42	15 7	21 49	21 46	20 19		n.a.
W 7	22 28	21 58	0s13	16 11	4 27	25 2	1 39	24 37	1 14	21 47	0 13	10 17	2 25	22 34	0 7	6 45	1 38	5 42	15 7	21 49	21 45	20 18		n.a.
T 8	22 35	22 9	1 19	16 9	4 26	24 57	1 40	24 34	1 14	21 50	0 13	10 16	2 25	22 34	0 7	6 45	1 38	5 42	15 7	21 49	21 45	20 17		n.a.
F 9	22 43	21 19	2 20	16 9	4 24	24 52	1 41	24 32	1 14	21 52	0 13	10 14	2 25	22 33	0 7	6 45	1 38	5 42	15 7	21 49	21 44	20 16		n.a.
S 10	22 49	19 33	3 16	16 12	4 21	24 46	1 41	24 28	1 14	21 54	0 13	10 13	2 24	22 33	0 7	6 45	1 38	5 42	15 7	21 49	21 44	20 14		n.a.
S 11	22 56	16 57	4 3	16 16	4 16	24 39	1 42	24 25	1 14	21 56	0 13	10 12	2 24	22 33	0 7	6 45	1 38	5 41	15 8	21 48	21 43	20 13		n.a.
M12	23 2	13 40	4 39	16 23	4 10	24 31	1 42	24 22	1 14	21 58	0 13	10 11	2 24	22 32	0 7	6 45	1 38	5 41	15 8	21 48	21 43	20 12		n.a.
T 13	23 7	9 48	5 4	16 32	4 3	24 23	1 43	24 18	1 13	22 0	0 13	10 10	2 24	22 32	0 7	6 45	1 38	5 41	15 8	21 48	21 42	20 10		n.a.
W14	23 12	5 30	5 16	16 43	3 55	24 14	1 43	24 14	1 13	22 2	0 13	10 9	2 24	22 32	0 7	6 45	1 38	5 41	15 8	21 48	21 42	20 9		n.a.
T 15	23 17	0 53	5 14	16 56	3 46	24 4	1 43	24 10	1 13	22 4	0 13	10 7	2 23	22 31	0 7	6 45	1 38	5 41	15 9	21 48	21 41	20 8		n.a.
F 16	23 21	3s52	4 56	17 11	3 36	23 54	1 43	24 6	1 13	22 6	0 13	10 6	2 23	22 31	0 7	6 44	1 38	5 41	15 9	21 48	21 41	20 6		n.a.
S 17	23 25	8 35	4 23	17 28	3 25	23 43	1 44	24 2	1 13	22 8	0 13	10 5	2 23	22 31	0 7	6 44	1 38	5 41	15 9	21 48	21 40	20 5		n.a.
S 18	23 29	13 4	3 35	17 46	3 14	23 31	1 44	23 57	1 13	22 10	0 12	10 3	2 23	22 30	0 7	6 44	1 38	5 41	15 9	21 48	21 40	20 4		n.a.
M19	23 32	17 0	2 32	18 6	3 2	23 18	1 43	23 52	1 13	22 12	0 12	10 2	2 23	22 30	0 7	6 44	1 38	5 41	15 10	21 48	21 39	20 2		n.a.
T 20	23 35	20 2	1 19	18 27	2 50	23 5	1 43	23 48	1 13	22 14	0 12	10 0	2 22	22 30	0 7	6 44	1 38	5 41	15 10	21 48	21 38	20 1		n.a.
W21	23 37	21 50	0n 2	18 49	2 37	22 51	1 43	23 43	1 13	22 16	0 12	9 59	2 22	22 30	0 7	6 44	1 39	5 41	15 10	21 48	21 38	20 0		n.a.
T 22	23 39	22 7	1 24	19 12	2 24	22 37	1 43	23 37	1 13	22 18	0 12	9 57	2 22	22 29	0 7	6 44	1 39	5 41	15 10	21 48	21 37	19 58		n.a.
F 23	23 41	20 47	2 41	19 36	2 10	22 22	1 42	23 32	1 13	22 20	0 12	9 56	2 22	22 29	0 7	6 45	1 39	5 41	15 11	21 48	21 37	19 57		n.a.
S 24	23 42	17 58	3 46	20 0	1 57	22 6	1 42	23 26	1 13	22 22	0 12	9 54	2 22	22 29	0 7	6 45	1 39	5 41	15 11	21 48	21 36	19 55		n.a.
S 25	23 42	13 59	4 35	20 25	1 43	21 50	1 41	23 21	1 13	22 24	0 12	9 53	2 21	22 28	0 7	6 45	1 39	5 41	15 11	21 47	21 36	19 54		n.a.
M26	23 42	9 13	5 5	20 50	1 29	21 33	1 41	23 15	1 12	22 25	0 12	9 51	2 21	22 28	0 7	6 45	1 39	5 41	15 11	21 47	21 35	19 53		n.a.
T 27	23 42	4 5	5 15	21 15	1 15	21 16	1 40	23 9	1 12	22 27	0 12	9 49	2 21	22 28	0 7	6 45	1 39	5 41	15 12	21 47	21 35	19 51		n.a.
W28	23 42	1n 7	5 6	21 40	1 2	20 58	1 39	23 2	1 12	22 29	0 11	9 48	2 21	22 27	0 7	6 45	1 39	5 41	15 12	21 46	21 34	19 50		n.a.
T 29	23 41	6 7	4 40	22 4	0 48	20 39	1 38	22 56	1 12	22 31	0 11	9 46	2 21	22 27	0 7	6 45	1 39	5 41	15 12	21 46	21 33	19 49		n.a.
F 30	23n39	10n41	4n 0	22n28	0s35	20n20	1n37	22n49	1n12	22n32	0s11	9n44	2n21	22s27	0s 7	6s45	1s39	5s41	15s12	21s46	21s33	19n47		n.a.

Julian Day Number = 1681031.5, Delta T = 03h15m28s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'33, Lahiri = - 5°28'32 Julian Calendar 1 June 111 BCE == Greg. Calendar 29 May 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

JULY 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 22 49	4♋45'00	0♉20	18♊21	8♌ 3	24♋ 8	14♊ 7	10♍56	10°R50	16°R53	21♈20	7♐19	5♐57	14♋13	n.a.	S 1
S 2	18 26 46	5°42'22	12°45	20° 5	9°14	24°45	14°20	11° 0	10♐48	16♓53	21°21	7°21	5°53	14°20	n.a.	S 2
M 3	18 30 42	6°39'45	24°56	21°52	10°26	25°23	14°33	11° 5	10°46	16°52	21°21	7°22	5°50	14°27	n.a.	M 3
T 4	18 34 39	7°37'10	6♊58	23°42	11°37	26° 1	14°46	11° 9	10°44	16°52	21°22	7°R23	5°47	14°33	n.a.	T 4
W 5	18 38 35	8°34'36	18°52	25°35	12°49	26°39	14°59	11°13	10°42	16°52	21°22	7°22	5°44	14°40	n.a.	W 5
T 6	18 42 32	9°32'02	0♋43	27°30	14° 0	27°17	15°12	11°18	10°40	16°51	21°23	7°20	5°41	14°47	n.a.	T 6
F 7	18 46 29	10°29'30	12°32	29°28	15°12	27°55	15°25	11°23	10°38	16°51	21°23	7°16	5°38	14°53	n.a.	F 7
S 8	18 50 25	11°27'00	24°21	1♋27	16°23	28°33	15°38	11°27	10°36	16°50	21°23	7°11	5°34	15° 0	n.a.	S 8
S 9	18 54 22	12°24'30	6♌12	3°28	17°35	29°11	15°51	11°32	10°34	16°50	21°24	7° 5	5°31	15° 7	n.a.	S 9
M10	18 58 18	13°22'01	18° 8	5°30	18°46	29°49	16° 3	11°37	10°32	16°49	21°24	6°59	5°28	15°13	n.a.	M10
T 11	19 2 15	14°19'33	0♍10	7°33	19°57	0♌27	16°16	11°42	10°30	16°49	21°24	6°52	5°25	15°20	n.a.	T 11
W12	19 6 11	15°17'07	12°21	9°37	21° 8	1° 5	16°29	11°47	10°28	16°48	21°25	6°47	5°22	15°27	n.a.	W12
T 13	19 10 8	16°14'41	24°45	11°40	22°20	1°43	16°41	11°52	10°26	16°48	21°25	6°43	5°18	15°33	n.a.	T 13
F 14	19 14 4	17°12'17	7♎24	13°43	23°31	2°21	16°54	11°57	10°24	16°47	21°25	6°41	5°15	15°40	n.a.	F 14
S 15	19 18 1	18° 9'53	20°22	15°46	24°42	2°59	17° 6	12° 2	10°23	16°46	21°25	6°D41	5°12	15°47	n.a.	S 15
S 16	19 21 58	19° 7'31	3♏42	17°49	25°53	3°38	17°19	12° 7	10°21	16°46	21°26	6°41	5° 9	15°53	n.a.	S 16
M17	19 25 54	20° 5'09	17°27	19°51	27° 4	4°16	17°31	12°13	10°19	16°45	21°26	6°43	5° 6	16° 0	n.a.	M17
T 18	19 29 51	21° 2'49	1♐38	21°51	28°14	4°54	17°44	12°18	10°18	16°44	21°26	6°R44	5° 3	16° 7	n.a.	T 18
W19	19 33 47	22° 0'30	16°14	23°51	29°25	5°32	17°56	12°24	10°16	16°43	21°26	6°43	4°59	16°13	n.a.	W19
T 20	19 37 44	22°58'13	1♑12	25°50	0♍36	6°10	18° 8	12°29	10°14	16°43	21°26	6°41	4°56	16°20	n.a.	T 20
F 21	19 41 40	23°55'57	16°24	27°48	1°47	6°49	18°20	12°35	10°13	16°42	21°26	6°37	4°53	16°27	n.a.	F 21
S 22	19 45 37	24°53'42	1♒40	29°44	2°57	7°27	18°32	12°40	10°11	16°41	21°26	6°31	4°50	16°33	n.a.	S 22
S 23	19 49 33	25°51'29	16°50	1♌39	4° 8	8° 5	18°45	12°46	10°10	16°40	21°26	6°24	4°47	16°40	n.a.	S 23
M24	19 53 30	26°49'17	1♓44	3°33	5°18	8°44	18°57	12°52	10° 8	16°39	21°26	6°17	4°44	16°47	n.a.	M24
T 25	19 57 27	27°47'07	16°15	5°26	6°29	9°22	19° 8	12°57	10° 7	16°38	21°R26	6°10	4°40	16°53	n.a.	T 25
W26	20 1 23	28°44'59	0♈17	7°17	7°39	10° 0	19°20	13° 3	10° 6	16°37	21°26	6° 5	4°37	17° 0	n.a.	W26
T 27	20 5 20	29°42'53	13°49	9° 7	8°49	10°39	19°32	13° 9	10° 4	16°36	21°26	6° 2	4°34	17° 7	n.a.	T 27
F 28	20 9 16	0♌40'48	26°54	10°55	10° 0	11°17	19°44	13°15	10° 3	16°35	21°26	6°D 0	4°31	17°14	n.a.	F 28
S 29	20 13 13	1°38'46	9♉34	12°43	11°10	11°55	19°56	13°21	10° 2	16°34	21°26	6° 0	4°28	17°20	n.a.	S 29
S 30	20 17 9	2°36'46	21°55	14°29	12°20	12°34	20° 7	13°27	10° 1	16°33	21°26	6° 1	4°24	17°27	n.a.	S 30
M31	20 21 6	3♌34'48	4♊ 0	16♌13	13♍30	13♌12	20♊19	13♍33	10♐ 0	16♓32	21♈26	6°R 2	4♐21	17♋34	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23n37	14n40	3n10	22n50	0s21	20n 0	1n36	22n42	1n12	22n34	0s11	9n42	2n20	22s26	0s 7	6s45	1s39	5s41	15s13	21s47	21s32	19n46		n.a.
S 2	23 35	17 55	2 11	23 11	0 9	19 40	1 35	22 36	1 12	22 36	0 11	9 41	2 20	22 26	0 7	6 45	1 39	5 41	15 13	21 47	21 32	19 44		n.a.
M 3	23 32	20 19	1 8	23 31	0n 4	19 19	1 34	22 28	1 12	22 37	0 11	9 39	2 20	22 26	0 7	6 46	1 39	5 41	15 13	21 47	21 31	19 43		n.a.
T 4	23 29	21 45	0 2	23 49	0 16	18 58	1 32	22 21	1 12	22 39	0 11	9 37	2 20	22 26	0 7	6 46	1 39	5 41	15 14	21 47	21 31	19 42		n.a.
W 5	23 26	22 12	1s 3	24 5	0 27	18 36	1 31	22 14	1 12	22 40	0 11	9 35	2 20	22 25	0 7	6 46	1 39	5 42	15 14	21 47	21 30	19 40		n.a.
T 6	23 22	21 38	2 4	24 18	0 37	18 14	1 29	22 6	1 11	22 42	0 11	9 33	2 19	22 25	0 7	6 46	1 39	5 42	15 14	21 47	21 30	19 39		n.a.
F 7	23 17	20 7	3 0	24 30	0 47	17 51	1 28	21 58	1 11	22 43	0 11	9 31	2 19	22 25	0 7	6 46	1 40	5 42	15 14	21 46	21 29	19 37		n.a.
S 8	23 12	17 44	3 49	24 39	0 57	17 28	1 26	21 50	1 11	22 45	0 11	9 29	2 19	22 24	0 7	6 47	1 40	5 42	15 15	21 45	21 28	19 36		n.a.
S 9	23 7	14 37	4 27	24 45	1 5	17 5	1 24	21 42	1 11	22 46	0 10	9 27	2 19	22 24	0 7	6 47	1 40	5 42	15 15	21 44	21 28	19 35		n.a.
M10	23 2	10 54	4 54	24 48	1 13	16 40	1 23	21 34	1 11	22 48	0 10	9 25	2 19	22 24	0 7	6 47	1 40	5 42	15 15	21 43	21 27	19 33		n.a.
T 11	22 56	6 44	5 8	24 49	1 20	16 16	1 21	21 26	1 11	22 49	0 10	9 23	2 19	22 24	0 7	6 47	1 40	5 42	15 16	21 42	21 27	19 32		n.a.
W12	22 49	2 15	5 9	24 47	1 26	15 51	1 19	21 17	1 11	22 51	0 10	9 21	2 18	22 23	0 7	6 48	1 40	5 43	15 16	21 41	21 26	19 30		n.a.
T 13	22 42	2s24	4 55	24 42	1 31	15 26	1 17	21 9	1 10	22 52	0 10	9 19	2 18	22 23	0 7	6 48	1 40	5 43	15 16	21 40	21 26	19 29		n.a.
F 14	22 35	7 3	4 27	24 35	1 36	15 0	1 14	21 0	1 10	22 53	0 10	9 17	2 18	22 23	0 7	6 48	1 40	5 43	15 16	21 40	21 25	19 27		n.a.
S 15	22 28	11 30	3 45	24 25	1 39	14 34	1 12	20 51	1 10	22 55	0 10	9 15	2 18	22 23	0 7	6 49	1 40	5 43	15 17	21 40	21 24	19 26		n.a.
S 16	22 20	15 32	2 49	24 12	1 42	14 8	1 10	20 42	1 10	22 56	0 10	9 12	2 18	22 22	0 7	6 49	1 40	5 43	15 17	21 40	21 24	19 25		n.a.
M17	22 11	18 52	1 43	23 57	1 45	13 41	1 8	20 32	1 10	22 57	0 10	9 10	2 18	22 22	0 7	6 49	1 40	5 43	15 17	21 40	21 23	19 23		n.a.
T 18	22 2	21 10	0 28	23 39	1 46	13 14	1 5	20 23	1 10	22 58	0 10	9 8	2 18	22 22	0 7	6 50	1 40	5 44	15 18	21 41	21 23	19 22		n.a.
W19	21 53	22 8	0n51	23 20	1 47	12 47	1 2	20 13	1 10	23 0	0 10	9 6	2 17	22 22	0 7	6 50	1 40	5 44	15 18	21 41	21 22	19 20		n.a.
T 20	21 44	21 34	2 8	22 58	1 47	12 19	1 0	20 4	1 9	23 1	0 9	9 4	2 17	22 21	0 7	6 50	1 40	5 44	15 18	21 40	21 22	19 19		n.a.
F 21	21 34	19 25	3 17	22 35	1 47	11 51	0 57	19 54	1 9	23 2	0 9	9 1	2 17	22 21	0 7	6 51	1 40	5 44	15 19	21 39	21 21	19 17		n.a.
S 22	21 23	15 54	4 13	22 9	1 46	11 23	0 54	19 44	1 9	23 3	0 9	8 59	2 17	22 21	0 7	6 51	1 40	5 45	15 19	21 38	21 20	19 16		n.a.
S 23	21 13	11 22	4 50	21 43	1 44	10 54	0 52	19 33	1 9	23 4	0 9	8 57	2 17	22 21	0 7	6 52	1 40	5 45	15 19	21 37	21 20	19 14		n.a.
M24	21 2	6 13	5 6	21 14	1 42	10 25	0 49	19 23	1 9	23 5	0 9	8 54	2 17	22 20	0 7	6 52	1 40	5 45	15 19	21 36	21 19	19 13		n.a.
T 25	20 50	0 51	5 3	20 44	1 40	9 56	0 46	19 13	1 9	23 7	0 9	8 52	2 17	22 20	0 7	6 52	1 41	5 45	15 20	21 35	21 19	19 11		n.a.
W26	20 38	4n23	4 40	20 13	1 37	9 27	0 43	19 2	1 8	23 8	0 9	8 50	2 17	22 20	0 7	6 53	1 41	5 46	15 20	21 34	21 18	19 10		n.a.
T 27	20 26	9 14	4 3	19 40	1 33	8 57	0 39	18 51	1 8	23 9	0 9	8 47	2 16	22 20	0 7	6 53	1 41	5 46	15 20	21 33	21 17	19 9		n.a.
F 28	20 14	13 30	3 14	19 7	1 29	8 28	0 36	18 40	1 8	23 10	0 9	8 45	2 16	22 20	0 7	6 54	1 41	5 46	15 21	21 33	21 17	19 7		n.a.
S 29	20 1	17 0	2 17	18 32	1 25	7 58	0 33	18 30	1 8	23 11	0 9	8 42	2 16	22 20	0 7	6 54	1 41	5 46	15 21	21 33	21 16	19 6		n.a.
S 30	19 48	19 39	1 15	17 57	1 20	7 28	0 30	18 18	1 8	23 12	0 8	8 40	2 16	22 19	0 7	6 55	1 41	5 47	15 21	21 33	21 16	19 4		n.a.
M31	19n34	21n22	0n11	17n21	1n15	6n57	0n26	18n 7	1n 8	23n13	0s 8	8n37	2n16	22s19	0s 7	6s55	1s41	5s47	15s21	21s33	21s15	19n 3		n.a.

Julian Day Number = 1681061.5, Delta T = 03h15m27s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'29, Lahiri = - 5°28'28 Julian Calendar 1 July 111 BCE == Greg. Calendar 28 June 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

AUGUST 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 25 2	4♌32'51	15♊56	17♌57	14♍40	13♌51	20♊30	13♍39	9°R59	16°R31	21°R26	6°R 1	4♐18	17♋40	n.a.	T 1
W 2	20 28 59	5°30'57	27°46	19°39	15°50	14°29	20°41	13°46	9♐57	16♓30	21♈26	5♐59	4°15	17°47	n.a.	W 2
T 3	20 32 56	6°29'05	9♋34	21°20	17° 0	15° 8	20°53	13°52	9°56	16°28	21°26	5°54	4°12	17°54	n.a.	T 3
F 4	20 36 52	7°27'14	21°23	22°59	18° 9	15°47	21° 4	13°58	9°56	16°27	21°25	5°47	4° 9	18° 0	n.a.	F 4
S 5	20 40 49	8°25'26	3♌15	24°38	19°19	16°25	21°15	14° 4	9°55	16°26	21°25	5°37	4° 5	18° 7	n.a.	S 5
S 6	20 44 45	9°23'39	15°13	26°15	20°29	17° 4	21°26	14°11	9°54	16°25	21°25	5°25	4° 2	18°14	n.a.	S 6
M 7	20 48 42	10°21'54	27°17	27°51	21°38	17°43	21°37	14°17	9°53	16°24	21°25	5°13	3°59	18°20	n.a.	M 7
T 8	20 52 38	11°20'11	9♍28	29°25	22°48	18°21	21°48	14°24	9°52	16°22	21°25	5° 1	3°56	18°27	n.a.	T 8
W 9	20 56 35	12°18'29	21°49	0♍59	23°57	19° 0	21°59	14°30	9°51	16°21	21°24	4°51	3°53	18°34	n.a.	W 9
T 10	21 0 31	13°16'50	4♎20	2°31	25° 6	19°39	22° 9	14°37	9°51	16°20	21°24	4°43	3°50	18°40	n.a.	T 10
F 11	21 4 28	14°15'12	17° 4	4° 3	26°15	20°18	22°20	14°43	9°50	16°18	21°24	4°37	3°46	18°47	n.a.	F 11
S 12	21 8 25	15°13'35	0♏ 2	5°33	27°24	20°56	22°31	14°50	9°50	16°17	21°23	4°34	3°43	18°54	n.a.	S 12
S 13	21 12 21	16°12'01	13°18	7° 1	28°33	21°35	22°41	14°56	9°49	16°15	21°23	4°D33	3°40	19° 0	n.a.	S 13
M14	21 16 18	17°10'28	26°55	8°29	29°42	22°14	22°51	15° 3	9°49	16°14	21°22	4°R33	3°37	19° 7	n.a.	M14
T 15	21 20 14	18° 8'56	10♐54	9°56	0♎51	22°53	23° 2	15°10	9°48	16°13	21°22	4°33	3°34	19°14	n.a.	T 15
W16	21 24 11	19° 7'27	25°15	11°21	2° 0	23°32	23°12	15°17	9°48	16°11	21°22	4°32	3°30	19°20	n.a.	W16
T 17	21 28 7	20° 5'59	9♑57	12°45	3° 8	24°11	23°22	15°23	9°48	16°10	21°21	4°28	3°27	19°27	n.a.	T 17
F 18	21 32 4	21° 4'33	24°55	14° 7	4°17	24°50	23°32	15°30	9°47	16° 8	21°21	4°22	3°24	19°34	n.a.	F 18
S 19	21 36 0	22° 3'09	10♒ 1	15°29	5°25	25°29	23°41	15°37	9°47	16° 7	21°20	4°13	3°21	19°41	n.a.	S 19
S 20	21 39 57	23° 1'47	25° 6	16°49	6°33	26° 8	23°51	15°44	9°47	16° 5	21°20	4° 2	3°18	19°47	n.a.	S 20
M21	21 43 54	24° 0'27	9♓59	18° 7	7°41	26°47	24° 1	15°51	9°47	16° 4	21°19	3°51	3°15	19°54	n.a.	M21
T 22	21 47 50	24°59'09	24°33	19°24	8°49	27°26	24°10	15°58	9°47	16° 2	21°19	3°41	3°11	20° 1	n.a.	T 22
W23	21 51 47	25°57'53	8♈39	20°40	9°57	28° 5	24°20	16° 5	9°D47	16° 1	21°18	3°32	3° 8	20° 7	n.a.	W23
T 24	21 55 43	26°56'39	22°17	21°54	11° 5	28°44	24°29	16°12	9°47	15°59	21°17	3°26	3° 5	20°14	n.a.	T 24
F 25	21 59 40	27°55'28	5♉26	23° 6	12°12	29°23	24°38	16°19	9°47	15°58	21°17	3°23	3° 2	20°21	n.a.	F 25
S 26	22 3 36	28°54'19	18° 9	24°17	13°20	0♍ 2	24°47	16°26	9°47	15°56	21°16	3°21	2°59	20°27	n.a.	S 26
S 27	22 7 33	29°53'13	0♊31	25°26	14°27	0°42	24°56	16°33	9°47	15°54	21°16	3°21	2°56	20°34	n.a.	S 27
M28	22 11 29	0♍52'09	12°36	26°33	15°34	1°21	25° 5	16°40	9°47	15°53	21°15	3°21	2°52	20°41	n.a.	M28
T 29	22 15 26	1°51'08	24°31	27°37	16°41	2° 0	25°14	16°47	9°48	15°51	21°14	3°20	2°49	20°47	n.a.	T 29
W30	22 19 22	2°50'08	6♋20	28°40	17°48	2°40	25°22	16°54	9°48	15°50	21°14	3°16	2°46	20°54	n.a.	W30
T 31	22 23 19	3♍49'11	18♋ 9	29♍40	18♎55	3♍19	25♊31	17♍ 1	9♐48	15♓48	21♈13	3♐11	2♐43	21♋ 1	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	19n20	22n 5	0s53	16n44	1n10	6n27	0n23	17n56	1n 7	23n13	0s 8	8n35	2n16	22s19	0s 7	6s56	1s41	5s47	15s22	21s33	21s14	19n 1		n.a.
W 2	19 6	21 48	1 54	16 6	1 4	5 56	0 19	17 44	1 7	23 14	0 8	8 32	2 16	22 19	0 7	6 56	1 41	5 48	15 22	21 33	21 14	19 0		n.a.
T 3	18 52	20 33	2 49	15 28	0 58	5 26	0 15	17 33	1 7	23 15	0 8	8 30	2 16	22 19	0 7	6 57	1 41	5 48	15 22	21 32	21 13	18 58		n.a.
F 4	18 37	18 24	3 37	14 50	0 52	4 55	0 12	17 21	1 7	23 16	0 8	8 27	2 15	22 19	0 7	6 57	1 41	5 48	15 23	21 31	21 13	18 57		n.a.
S 5	18 22	15 29	4 16	14 11	0 46	4 24	0 8	17 9	1 7	23 17	0 8	8 25	2 15	22 18	0 7	6 58	1 41	5 49	15 23	21 29	21 12	18 55		n.a.
S 6	18 6	11 56	4 44	13 31	0 39	3 53	0 4	16 57	1 6	23 18	0 8	8 22	2 15	22 18	0 7	6 58	1 41	5 49	15 23	21 27	21 12	18 54		n.a.
M 7	17 50	7 52	5 0	12 52	0 32	3 22	0 0	16 45	1 6	23 19	0 8	8 20	2 15	22 18	0 7	6 59	1 41	5 49	15 23	21 25	21 11	18 52		n.a.
T 8	17 34	3 27	5 2	12 12	0 25	2 50	0s 3	16 32	1 6	23 19	0 8	8 17	2 15	22 18	0 7	6 59	1 41	5 50	15 24	21 22	21 10	18 50		n.a.
W 9	17 18	1s 9	4 50	11 32	0 18	2 19	0 7	16 20	1 6	23 20	0 8	8 14	2 15	22 18	0 7	7 0	1 41	5 50	15 24	21 21	21 10	18 49		n.a.
T 10	17 1	5 46	4 24	10 51	0 11	1 48	0 11	16 7	1 5	23 21	0 7	8 12	2 15	22 18	0 7	7 0	1 41	5 51	15 24	21 19	21 9	18 47		n.a.
F 11	16 44	10 13	3 44	10 11	0 3	1 16	0 15	15 55	1 5	23 22	0 7	8 9	2 15	22 18	0 7	7 1	1 41	5 51	15 25	21 18	21 8	18 46		n.a.
S 12	16 27	14 18	2 52	9 31	0s 4	0 45	0 19	15 42	1 5	23 22	0 7	8 6	2 15	22 18	0 7	7 1	1 41	5 51	15 25	21 17	21 8	18 44		n.a.
S 13	16 9	17 46	1 50	8 50	0 12	0 13	0 24	15 29	1 5	23 23	0 7	8 4	2 15	22 18	0 7	7 2	1 41	5 52	15 25	21 17	21 7	18 43		n.a.
M14	15 52	20 21	0 40	8 10	0 20	0s18	0 28	15 16	1 5	23 24	0 7	8 1	2 15	22 18	0 7	7 3	1 41	5 52	15 25	21 17	21 7	18 41		n.a.
T 15	15 34	21 46	0n34	7 30	0 28	0 50	0 32	15 3	1 4	23 24	0 7	7 58	2 15	22 18	0 7	7 3	1 41	5 52	15 26	21 17	21 6	18 40		n.a.
W16	15 15	21 50	1 47	6 50	0 36	1 21	0 36	14 50	1 4	23 25	0 7	7 56	2 15	22 18	0 7	7 4	1 41	5 53	15 26	21 17	21 5	18 38		n.a.
T 17	14 57	20 25	2 56	6 10	0 44	1 53	0 41	14 37	1 4	23 26	0 7	7 53	2 14	22 17	0 7	7 4	1 41	5 53	15 26	21 16	21 5	18 37		n.a.
F 18	14 38	17 34	3 53	5 31	0 52	2 24	0 45	14 23	1 4	23 26	0 7	7 50	2 14	22 17	0 8	7 5	1 42	5 54	15 26	21 15	21 4	18 35		n.a.
S 19	14 19	13 31	4 35	4 52	1 0	2 56	0 49	14 10	1 3	23 27	0 7	7 47	2 14	22 17	0 8	7 6	1 42	5 54	15 27	21 14	21 4	18 34		n.a.
S 20	14 0	8 38	4 57	4 13	1 9	3 27	0 54	13 56	1 3	23 27	0 7	7 45	2 14	22 17	0 8	7 6	1 42	5 54	15 27	21 12	21 3	18 32		n.a.
M21	13 40	3 18	4 59	3 34	1 17	3 58	0 58	13 43	1 3	23 28	0 6	7 42	2 14	22 17	0 8	7 7	1 42	5 55	15 27	21 9	21 2	18 30		n.a.
T 22	13 20	2n 6	4 42	2 56	1 25	4 29	1 2	13 29	1 3	23 28	0 6	7 39	2 14	22 17	0 8	7 8	1 42	5 55	15 27	21 7	21 2	18 29		n.a.
W23	13 0	7 14	4 7	2 19	1 33	5 0	1 7	13 15	1 2	23 29	0 6	7 36	2 14	22 17	0 8	7 8	1 42	5 56	15 28	21 6	21 1	18 27		n.a.
T 24	12 40	11 50	3 19	1 42	1 41	5 31	1 11	13 1	1 2	23 29	0 6	7 34	2 14	22 17	0 8	7 9	1 42	5 56	15 28	21 5	21 1	18 26		n.a.
F 25	12 20	15 42	2 22	1 6	1 49	6 2	1 16	12 47	1 2	23 30	0 6	7 31	2 14	22 17	0 8	7 9	1 42	5 57	15 28	21 4	21 0	18 24		n.a.
S 26	11 59	18 42	1 20	0 30	1 57	6 33	1 20	12 33	1 2	23 30	0 6	7 28	2 14	22 17	0 8	7 10	1 42	5 57	15 28	21 4	20 59	18 23		n.a.
S 27	11 38	20 44	0 15	0s 4	2 5	7 4	1 25	12 18	1 1	23 31	0 6	7 25	2 14	22 17	0 8	7 11	1 42	5 57	15 29	21 4	20 59	18 21		n.a.
M28	11 17	21 45	0s49	0 38	2 13	7 34	1 29	12 4	1 1	23 31	0 6	7 22	2 14	22 17	0 8	7 11	1 42	5 58	15 29	21 4	20 58	18 19		n.a.
T 29	10 56	21 46	1 50	1 11	2 20	8 4	1 34	11 49	1 1	23 32	0 6	7 20	2 14	22 18	0 8	7 12	1 42	5 58	15 29	21 3	20 57	18 18		n.a.
W30	10 35	20 48	2 45	1 43	2 28	8 35	1 39	11 35	1 1	23 32	0 6	7 17	2 14	22 18	0 8	7 13	1 42	5 59	15 29	21 3	20 57	18 16		n.a.
T 31	10n13	18n56	3s33	2s14	2s35	9s 5	1s43	11n20	1n 0	23n32	0s 5	7n14	2n14	22s18	0s 8	7s13	1s42	5s59	15s29	21s 2	20s56	18n15		n.a.

Julian Day Number = 1681092.5, Delta T = 03h15m26s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'24, Lahiri = - 5°28'24 Julian Calendar 1 Aug. 111 BCE == Greg. Calendar 29 July 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

SEPTEMBER 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	22 27 16	4♍48'17	0♌ 0	0♎37	20♎ 1	3♍58	25♊39	17♍ 8	9♐49	15°R46	21°R12	3°R 2	2♐40	21♋ 8	n.a.	F 1
S 2	22 31 12	5°47'25	11°58	1°32	21° 8	4°38	25°47	17°15	9°49	15♓45	21♈11	2♐50	2°36	21°14	n.a.	S 2
S 3	22 35 9	6°46'34	24° 4	2°23	22°14	5°17	25°55	17°23	9°50	15°43	21°11	2°37	2°33	21°21	n.a.	S 3
M 4	22 39 5	7°45'46	6♍19	3°11	23°20	5°57	26° 3	17°30	9°50	15°41	21°10	2°23	2°30	21°28	n.a.	M 4
T 5	22 43 2	8°45'01	18°45	3°55	24°26	6°36	26°11	17°37	9°51	15°40	21° 9	2° 9	2°27	21°34	n.a.	T 5
W 6	22 46 58	9°44'17	1♎21	4°36	25°32	7°16	26°19	17°44	9°52	15°38	21° 8	1°57	2°24	21°41	n.a.	W 6
T 7	22 50 55	10°43'35	14° 8	5°12	26°38	7°55	26°26	17°51	9°53	15°36	21° 8	1°47	2°21	21°48	n.a.	T 7
F 8	22 54 51	11°42'56	27° 5	5°43	27°43	8°35	26°34	17°59	9°53	15°35	21° 7	1°40	2°17	21°54	n.a.	F 8
S 9	22 58 48	12°42'18	10♏15	6° 9	28°48	9°15	26°41	18° 6	9°54	15°33	21° 6	1°37	2°14	22° 1	n.a.	S 9
S 10	23 2 44	13°41'42	23°37	6°29	29°53	9°54	26°48	18°13	9°55	15°31	21° 5	1°35	2°11	22° 8	n.a.	S 10
M11	23 6 41	14°41'08	7♐13	6°44	0♏58	10°34	26°55	18°20	9°56	15°30	21° 4	1°35	2° 8	22°14	n.a.	M11
T 12	23 10 38	15°40'36	21° 5	6°51	2° 3	11°14	27° 2	18°28	9°57	15°28	21° 3	1°35	2° 5	22°21	n.a.	T 12
W13	23 14 34	16°40'06	5♑13	6°R52	3° 7	11°53	27° 8	18°35	9°58	15°26	21° 2	1°34	2° 1	22°28	n.a.	W13
T 14	23 18 31	17°39'38	19°36	6°45	4°11	12°33	27°15	18°42	9°59	15°25	21° 1	1°30	1°58	22°34	n.a.	T 14
F 15	23 22 27	18°39'11	4♒12	6°30	5°15	13°13	27°21	18°49	10° 0	15°23	21° 1	1°24	1°55	22°41	n.a.	F 15
S 16	23 26 24	19°38'46	18°55	6° 6	6°19	13°53	27°28	18°57	10° 2	15°21	21° 0	1°16	1°52	22°48	n.a.	S 16
S 17	23 30 20	20°38'23	3♓39	5°34	7°22	14°33	27°34	19° 4	10° 3	15°20	20°59	1° 6	1°49	22°55	n.a.	S 17
M18	23 34 17	21°38'03	18°16	4°54	8°25	15°13	27°40	19°11	10° 4	15°18	20°58	0°55	1°46	23° 1	n.a.	M18
T 19	23 38 13	22°37'44	2♈37	4° 5	9°28	15°53	27°45	19°18	10° 6	15°16	20°57	0°44	1°42	23° 8	n.a.	T 19
W20	23 42 10	23°37'27	16°38	3° 8	10°31	16°33	27°51	19°26	10° 7	15°15	20°56	0°36	1°39	23°15	n.a.	W20
T 21	23 46 7	24°37'13	0♉13	2° 5	11°33	17°13	27°56	19°33	10° 8	15°13	20°55	0°30	1°36	23°21	n.a.	T 21
F 22	23 50 3	25°37'01	13°23	0°55	12°35	17°53	28° 1	19°40	10°10	15°11	20°54	0°26	1°33	23°28	n.a.	F 22
S 23	23 54 0	26°36'51	26° 9	29♍42	13°36	18°33	28° 7	19°47	10°11	15°10	20°53	0°D24	1°30	23°35	n.a.	S 23
S 24	23 57 56	27°36'43	8♊33	28°27	14°38	19°13	28°11	19°54	10°13	15° 8	20°52	0°25	1°27	23°41	n.a.	S 24
M25	0 1 53	28°36'38	20°41	27°11	15°39	19°53	28°16	20° 2	10°15	15° 6	20°51	0°25	1°23	23°48	n.a.	M25
T 26	0 5 49	29°36'35	2♋38	25°58	16°39	20°33	28°21	20° 9	10°16	15° 5	20°50	0°R26	1°20	23°55	n.a.	T 26
W27	0 9 46	0♎36'35	14°29	24°50	17°40	21°14	28°25	20°16	10°18	15° 3	20°49	0°24	1°17	24° 1	n.a.	W27
T 28	0 13 42	1°36'36	26°19	23°48	18°40	21°54	28°29	20°23	10°20	15° 2	20°48	0°21	1°14	24° 8	n.a.	T 28
F 29	0 17 39	2°36'40	8♌13	22°55	19°39	22°34	28°33	20°30	10°22	15° 0	20°47	0°15	1°11	24°15	n.a.	F 29
S 30	0 21 36	3♎36'46	20♌15	22♍11	20♏38	23♍15	28♊37	20♍38	10♐24	14♓58	20♈45	0♐ 8	1♐ 7	24♋22	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	9n51	16n16	4s12	2s43	2s42	9s34	1s48	11n 6	1n 0	23n33	0s 5	7n11	2n14	22s18	0s 8	7s14	1s42	6s 0	15s30	21s 0	20s56	18n13		n.a.
S 2	9 29	12 54	4 41	3 11	2 48	10 4	1 52	10 51	1 0	23 33	0 5	7 8	2 14	22 18	0 8	7 15	1 42	6 0	15 30	20 58	20 55	18 11		n.a.
S 3	9 7	8 59	4 57	3 37	2 55	10 33	1 57	10 36	0 59	23 34	0 5	7 5	2 14	22 18	0 8	7 15	1 42	6 1	15 30	20 55	20 54	18 10		n.a.
M 4	8 45	4 40	4 59	4 2	3 1	11 2	2 1	10 21	0 59	23 34	0 5	7 3	2 14	22 18	0 8	7 16	1 42	6 1	15 30	20 52	20 54	18 8		n.a.
T 5	8 23	0 6	4 48	4 25	3 6	11 31	2 6	10 6	0 59	23 34	0 5	7 0	2 14	22 18	0 8	7 17	1 42	6 2	15 30	20 49	20 53	18 7		n.a.
W 6	8 0	4s32	4 22	4 46	3 11	12 0	2 10	9 51	0 59	23 35	0 5	6 57	2 14	22 18	0 8	7 17	1 42	6 2	15 31	20 47	20 52	18 5		n.a.
T 7	7 38	9 3	3 43	5 5	3 16	12 28	2 15	9 36	0 58	23 35	0 5	6 54	2 14	22 18	0 8	7 18	1 42	6 3	15 31	20 45	20 52	18 3		n.a.
F 8	7 15	13 13	2 52	5 21	3 20	12 57	2 19	9 20	0 58	23 35	0 5	6 51	2 14	22 18	0 8	7 19	1 42	6 3	15 31	20 44	20 51	18 2		n.a.
S 9	6 52	16 48	1 50	5 34	3 23	13 24	2 24	9 5	0 58	23 35	0 4	6 48	2 14	22 19	0 8	7 19	1 42	6 4	15 31	20 43	20 50	18 0		n.a.
S 10	6 29	19 34	0 42	5 45	3 26	13 52	2 28	8 50	0 57	23 36	0 4	6 45	2 14	22 19	0 8	7 20	1 42	6 4	15 31	20 43	20 50	17 59		n.a.
M11	6 6	21 16	0n30	5 52	3 27	14 19	2 33	8 34	0 57	23 36	0 4	6 43	2 14	22 19	0 8	7 21	1 42	6 4	15 32	20 43	20 49	17 57		n.a.
T 12	5 43	21 43	1 41	5 55	3 28	14 46	2 37	8 19	0 57	23 36	0 4	6 40	2 14	22 19	0 8	7 21	1 42	6 5	15 32	20 43	20 49	17 55		n.a.
W13	5 19	20 48	2 48	5 55	3 27	15 13	2 41	8 3	0 56	23 37	0 4	6 37	2 14	22 19	0 8	7 22	1 42	6 5	15 32	20 42	20 48	17 54		n.a.
T 14	4 56	18 32	3 45	5 51	3 25	15 39	2 46	7 47	0 56	23 37	0 4	6 34	2 14	22 19	0 8	7 23	1 42	6 6	15 32	20 42	20 47	17 52		n.a.
F 15	4 32	15 4	4 29	5 42	3 22	16 5	2 50	7 31	0 56	23 37	0 4	6 31	2 14	22 19	0 8	7 23	1 42	6 6	15 32	20 40	20 47	17 50		n.a.
S 16	4 9	10 39	4 55	5 28	3 17	16 30	2 54	7 16	0 56	23 37	0 4	6 28	2 14	22 20	0 8	7 24	1 42	6 7	15 32	20 39	20 46	17 49		n.a.
S 17	3 45	5 36	5 2	5 9	3 11	16 56	2 58	7 0	0 55	23 37	0 4	6 25	2 14	22 20	0 8	7 25	1 42	6 7	15 32	20 37	20 45	17 47		n.a.
M18	3 21	0 16	4 48	4 45	3 3	17 20	3 2	6 44	0 55	23 38	0 3	6 23	2 14	22 20	0 8	7 25	1 42	6 8	15 33	20 34	20 45	17 45		n.a.
T 19	2 57	4n59	4 17	4 16	2 53	17 45	3 6	6 28	0 55	23 38	0 3	6 20	2 14	22 20	0 8	7 26	1 42	6 8	15 33	20 32	20 44	17 44		n.a.
W20	2 34	9 50	3 31	3 43	2 41	18 9	3 10	6 12	0 54	23 38	0 3	6 17	2 14	22 20	0 8	7 27	1 42	6 9	15 33	20 30	20 43	17 42		n.a.
T 21	2 10	14 4	2 33	3 4	2 27	18 32	3 14	5 56	0 54	23 38	0 3	6 14	2 14	22 21	0 8	7 27	1 42	6 9	15 33	20 29	20 43	17 40		n.a.
F 22	1 46	17 27	1 29	2 22	2 11	18 56	3 18	5 40	0 54	23 39	0 3	6 11	2 14	22 21	0 8	7 28	1 42	6 10	15 33	20 28	20 42	17 39		n.a.
S 23	1 22	19 52	0 23	1 37	1 53	19 18	3 22	5 24	0 53	23 39	0 3	6 8	2 14	22 21	0 8	7 28	1 42	6 10	15 33	20 28	20 41	17 37		n.a.
S 24	0 58	21 16	0s43	0 49	1 35	19 41	3 26	5 7	0 53	23 39	0 3	6 6	2 14	22 21	0 8	7 29	1 42	6 11	15 33	20 28	20 41	17 36		n.a.
M25	0 34	21 37	1 46	0 1	1 15	20 3	3 29	4 51	0 52	23 39	0 3	6 3	2 14	22 22	0 8	7 30	1 42	6 11	15 33	20 28	20 40	17 34		n.a.
T 26	0 9	20 57	2 43	0n47	0 54	20 24	3 33	4 35	0 52	23 39	0 3	6 0	2 14	22 22	0 8	7 30	1 42	6 12	15 34	20 28	20 39	17 32		n.a.
W27	0s15	19 23	3 33	1 34	0 34	20 45	3 37	4 18	0 52	23 39	0 2	5 57	2 14	22 22	0 8	7 31	1 42	6 12	15 34	20 28	20 39	17 30		n.a.
T 28	0 39	16 59	4 13	2 17	0 13	21 5	3 40	4 2	0 51	23 40	0 2	5 54	2 14	22 22	0 8	7 32	1 42	6 13	15 34	20 27	20 38	17 29		n.a.
F 29	1 3	13 51	4 43	2 57	0n 7	21 25	3 43	3 46	0 51	23 40	0 2	5 52	2 15	22 23	0 8	7 32	1 42	6 13	15 34	20 26	20 38	17 27		n.a.
S 30	1s27	10n 9	5s 1	3n31	0n25	21s45	3s46	3n29	0n51	23n40	0s 2	5n49	2n15	22s23	0s 8	7s33	1s42	6s13	15s34	20s24	20s37	17n25		n.a.

Julian Day Number = 1681123.5, Delta T = 03h15m25s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'20, Lahiri = - 5°28'20 Julian Calendar 1 Sept. 111 BCE == Greg. Calendar 29 Aug. 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

OCTOBER 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 25 32	4♎36'54	2♍28	21°R39	21♏37	23♍55	28♊41	20♍45	10♐26	14°R57	20°R44	29°R58	1♐ 4	24♋28	n.a.	S 1
M 2	0 29 29	5°37'04	14°54	21♍18	22°35	24°35	28°45	20°52	10°28	14♓55	20♈43	29♏48	1° 1	24°35	n.a.	M 2
T 3	0 33 25	6°37'16	27°35	21°D 8	23°33	25°16	28°48	20°59	10°30	14°54	20°42	29°37	0°58	24°42	n.a.	T 3
W 4	0 37 22	7°37'30	10♎30	21°10	24°31	25°56	28°51	21° 6	10°32	14°52	20°41	29°28	0°55	24°48	n.a.	W 4
T 5	0 41 18	8°37'46	23°38	21°23	25°28	26°37	28°54	21°13	10°34	14°51	20°40	29°21	0°52	24°55	n.a.	T 5
F 6	0 45 15	9°38'04	6♏58	21°46	26°24	27°18	28°57	21°20	10°36	14°49	20°39	29°16	0°48	25° 2	n.a.	F 6
S 7	0 49 11	10°38'24	20°28	22°18	27°20	27°58	28°59	21°27	10°38	14°48	20°38	29°14	0°45	25° 8	n.a.	S 7
S 8	0 53 8	11°38'45	4♐ 9	22°59	28°16	28°39	29° 2	21°34	10°40	14°46	20°37	29°D14	0°42	25°15	n.a.	S 8
M 9	0 57 4	12°39'08	17°58	23°48	29°11	29°19	29° 4	21°41	10°42	14°45	20°36	29°15	0°39	25°22	n.a.	M 9
T 10	1 1 1	13°39'32	1♑55	24°44	0♐ 5	0♎ 0	29° 6	21°48	10°45	14°43	20°34	29°16	0°36	25°29	n.a.	T 10
W11	1 4 58	14°39'58	16° 0	25°46	0°59	0°41	29° 8	21°55	10°47	14°42	20°33	29°R16	0°33	25°35	n.a.	W11
T 12	1 8 54	15°40'26	0♒11	26°53	1°52	1°22	29° 9	22° 2	10°50	14°41	20°32	29°15	0°29	25°42	n.a.	T 12
F 13	1 12 51	16°40'54	14°26	28° 5	2°44	2° 2	29°11	22° 9	10°52	14°39	20°31	29°13	0°26	25°49	n.a.	F 13
S 14	1 16 47	17°41'24	28°44	29°20	3°36	2°43	29°12	22°15	10°54	14°38	20°30	29° 8	0°23	25°55	n.a.	S 14
S 15	1 20 44	18°41'56	13♓ 0	0♎39	4°27	3°24	29°13	22°22	10°57	14°37	20°29	29° 2	0°20	26° 2	n.a.	S 15
M16	1 24 40	19°42'28	27° 8	2° 1	5°17	4° 5	29°14	22°29	10°59	14°35	20°28	28°55	0°17	26° 9	n.a.	M16
T 17	1 28 37	20°43'03	11♈ 5	3°25	6° 7	4°46	29°14	22°36	11° 2	14°34	20°27	28°49	0°13	26°15	n.a.	T 17
W18	1 32 33	21°43'39	24°46	4°51	6°55	5°27	29°15	22°42	11° 5	14°33	20°25	28°44	0°10	26°22	n.a.	W18
T 19	1 36 30	22°44'16	8♉ 9	6°19	7°43	6° 8	29°15	22°49	11° 7	14°32	20°24	28°40	0° 7	26°29	n.a.	T 19
F 20	1 40 27	23°44'55	21°11	7°48	8°30	6°49	29°R15	22°55	11°10	14°30	20°23	28°38	0° 4	26°36	n.a.	F 20
S 21	1 44 23	24°45'36	3♊54	9°18	9°16	7°30	29°15	23° 2	11°13	14°29	20°22	28°D38	0° 1	26°42	n.a.	S 21
S 22	1 48 20	25°46'19	16°18	10°49	10° 1	8°11	29°15	23° 9	11°15	14°28	20°21	28°39	29♏58	26°49	n.a.	S 22
M23	1 52 16	26°47'03	28°27	12°21	10°46	8°53	29°14	23°15	11°18	14°27	20°20	28°41	29°54	26°56	n.a.	M23
T 24	1 56 13	27°47'49	10♋26	13°53	11°29	9°34	29°13	23°21	11°21	14°26	20°19	28°43	29°51	27° 2	n.a.	T 24
W25	2 0 9	28°48'37	22°18	15°26	12°11	10°15	29°12	23°28	11°24	14°25	20°18	28°44	29°48	27° 9	n.a.	W25
T 26	2 4 6	29°49'26	4♌ 9	16°59	12°52	10°56	29°11	23°34	11°27	14°23	20°16	28°R44	29°45	27°16	n.a.	T 26
F 27	2 8 2	0♏50'17	16° 4	18°33	13°31	11°38	29°10	23°40	11°30	14°22	20°15	28°43	29°42	27°22	n.a.	F 27
S 28	2 11 59	1°51'09	28° 7	20° 7	14°10	12°19	29° 8	23°47	11°33	14°21	20°14	28°41	29°38	27°29	n.a.	S 28
S 29	2 15 56	2°52'03	10♍23	21°40	14°47	13° 0	29° 7	23°53	11°36	14°20	20°13	28°37	29°35	27°36	n.a.	S 29
M30	2 19 52	3°52'58	22°55	23°14	15°24	13°42	29° 5	23°59	11°39	14°19	20°12	28°33	29°32	27°43	n.a.	M30
T 31	2 23 49	4♏53'55	5♎45	24♎48	15♐58	14♎23	29♊ 3	24♍ 5	11♐42	14♓19	20♈11	28♏29	29♏29	27♋49	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	1s51	5n58	5s 5	4n 0	0n43	22s 4	3s49	3n13	0n50	23n40	0s 2	5n46	2n15	22s23	0s 8	7s33	1s42	6s14	15s34	20s22	20s36	17n24			n.a.
M 2	2 15	1 29	4 55	4 24	0 59	22 22	3 52	2 56	0 50	23 40	0 2	5 43	2 15	22 24	0 8	7 34	1 42	6 14	15 34	20 20	20 36	17 22			n.a.
T 3	2 39	3s 9	4 30	4 41	1 14	22 40	3 55	2 40	0 50	23 40	0 2	5 40	2 15	22 24	0 8	7 35	1 42	6 15	15 34	20 18	20 35	17 20			n.a.
W 4	3 4	7 44	3 51	4 52	1 27	22 57	3 58	2 23	0 49	23 41	0 2	5 38	2 15	22 24	0 8	7 35	1 42	6 15	15 34	20 16	20 34	17 19			n.a.
T 5	3 28	12 3	2 59	4 57	1 38	23 14	4 1	2 6	0 49	23 41	0 1	5 35	2 15	22 24	0 8	7 36	1 42	6 16	15 34	20 14	20 34	17 17			n.a.
F 6	3 52	15 50	1 57	4 56	1 47	23 30	4 3	1 50	0 48	23 41	0 1	5 32	2 15	22 25	0 8	7 36	1 42	6 16	15 34	20 13	20 33	17 15			n.a.
S 7	4 15	18 49	0 47	4 51	1 55	23 46	4 6	1 33	0 48	23 41	0 1	5 30	2 15	22 25	0 8	7 37	1 42	6 17	15 34	20 13	20 32	17 14			n.a.
S 8	4 39	20 47	0n27	4 40	2 1	24 1	4 8	1 16	0 48	23 41	0 1	5 27	2 15	22 25	0 8	7 37	1 42	6 17	15 34	20 13	20 32	17 12			n.a.
M 9	5 3	21 30	1 40	4 25	2 6	24 16	4 10	1 0	0 47	23 41	0 1	5 24	2 15	22 26	0 8	7 38	1 42	6 17	15 34	20 13	20 31	17 10			n.a.
T 10	5 27	20 54	2 47	4 6	2 10	24 30	4 12	0 43	0 47	23 41	0 1	5 22	2 15	22 26	0 8	7 38	1 42	6 18	15 34	20 13	20 30	17 8			n.a.
W11	5 51	19 0	3 46	3 43	2 12	24 43	4 14	0 26	0 46	23 42	0 1	5 19	2 16	22 26	0 8	7 39	1 42	6 18	15 34	20 13	20 30	17 7			n.a.
T 12	6 14	15 56	4 31	3 17	2 13	24 56	4 15	0 9	0 46	23 42	0 1	5 16	2 16	22 27	0 8	7 40	1 42	6 19	15 34	20 13	20 29	17 5			n.a.
F 13	6 38	11 55	4 59	2 49	2 14	25 8	4 17	0s 7	0 46	23 42	0 0	5 14	2 16	22 27	0 8	7 40	1 42	6 19	15 34	20 12	20 28	17 3			n.a.
S 14	7 1	7 13	5 9	2 18	2 13	25 20	4 18	0 24	0 45	23 42	0 0	5 11	2 16	22 27	0 8	7 41	1 42	6 20	15 34	20 11	20 28	17 2			n.a.
S 15	7 24	2 8	5 0	1 45	2 11	25 31	4 19	0 41	0 45	23 42	0 0	5 8	2 16	22 28	0 8	7 41	1 42	6 20	15 34	20 10	20 27	17 0			n.a.
M16	7 48	3n 1	4 33	1 10	2 9	25 41	4 20	0 58	0 44	23 42	0 0	5 6	2 16	22 28	0 8	7 42	1 42	6 20	15 34	20 9	20 26	16 58			n.a.
T 17	8 11	7 57	3 50	0 33	2 6	25 51	4 21	1 15	0 44	23 42	0n 0	5 3	2 16	22 28	0 8	7 42	1 42	6 21	15 34	20 7	20 26	16 56			n.a.
W18	8 34	12 23	2 54	0s 4	2 3	26 0	4 22	1 31	0 43	23 43	0 0	5 1	2 16	22 29	0 8	7 42	1 42	6 21	15 34	20 6	20 25	16 55			n.a.
T 19	8 56	16 6	1 49	0 43	1 59	26 9	4 22	1 48	0 43	23 43	0 0	4 58	2 17	22 29	0 8	7 43	1 42	6 21	15 34	20 5	20 24	16 53			n.a.
F 20	9 19	18 55	0 41	1 22	1 55	26 17	4 22	2 5	0 43	23 43	0 0	4 56	2 17	22 30	0 8	7 43	1 41	6 22	15 34	20 5	20 23	16 51			n.a.
S 21	9 42	20 42	0s29	2 2	1 50	26 24	4 22	2 22	0 42	23 43	0 1	4 53	2 17	22 30	0 8	7 44	1 41	6 22	15 34	20 5	20 23	16 50			n.a.
S 22	10 4	21 25	1 35	2 43	1 45	26 31	4 22	2 39	0 42	23 43	0 1	4 51	2 17	22 30	0 8	7 44	1 41	6 23	15 34	20 5	20 22	16 48			n.a.
M23	10 26	21 6	2 36	3 24	1 40	26 37	4 21	2 56	0 41	23 43	0 1	4 48	2 17	22 31	0 8	7 45	1 41	6 23	15 34	20 5	20 21	16 46			n.a.
T 24	10 48	19 49	3 29	4 6	1 34	26 42	4 20	3 12	0 41	23 43	0 1	4 46	2 17	22 31	0 8	7 45	1 41	6 23	15 34	20 6	20 21	16 44			n.a.
W25	11 10	17 41	4 13	4 47	1 28	26 47	4 19	3 29	0 40	23 43	0 1	4 43	2 17	22 32	0 8	7 45	1 41	6 24	15 34	20 6	20 20	16 43			n.a.
T 26	11 32	14 49	4 45	5 29	1 22	26 52	4 18	3 46	0 40	23 44	0 1	4 41	2 18	22 32	0 8	7 46	1 41	6 24	15 34	20 6	20 19	16 41			n.a.
F 27	11 54	11 20	5 6	6 11	1 16	26 55	4 17	4 3	0 39	23 44	0 1	4 39	2 18	22 32	0 8	7 46	1 41	6 24	15 34	20 6	20 19	16 39			n.a.
S 28	12 15	7 21	5 14	6 52	1 10	26 58	4 15	4 19	0 39	23 44	0 2	4 36	2 18	22 33	0 8	7 47	1 41	6 25	15 34	20 5	20 18	16 37			n.a.
S 29	12 36	3 1	5 7	7 34	1 3	27 1	4 13	4 36	0 38	23 44	0 2	4 34	2 18	22 33	0 8	7 47	1 41	6 25	15 34	20 4	20 17	16 36			n.a.
M30	12 57	1s32	4 46	8 15	0 56	27 2	4 10	4 53	0 38	23 44	0 2	4 32	2 18	22 34	0 8	7 47	1 41	6 25	15 33	20 4	20 17	16 34			n.a.
T 31	13s18	6s 8	4s10	8s56	0n50	27s 4	4s 7	5s10	0n38	23n44	0n 2	4n29	2n18	22s34	0s 8	7s48	1s41	6s26	15s33	20s 3	20s16	16n32			n.a.

Julian Day Number = 1681153.5, Delta T = 03h15m24s
Ecliptic obliquity = 23°42'27, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'16, Lahiri = - 5°28'16 Julian Calendar 1 Oct. 111 BCE == Greg. Calendar 28 Sept. 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

NOVEMBER 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	2 27 45	5♏54'53	18♎55	26♎23	16♐32	15♎ 5	29°R 0	24♍11	11♐45	14°R18	20°R10	28°R25	29♏26	27♋56	n.a.	W 1
T 2	2 31 42	6°55'52	2♏23	27°57	17° 4	15°46	28♊58	24°17	11°48	14♓17	20♈ 9	28♏23	29°23	28° 3	n.a.	T 2
F 3	2 35 38	7°56'53	16° 7	29°31	17°34	16°28	28°55	24°23	11°51	14°16	20° 8	28°21	29°19	28° 9	n.a.	F 3
S 4	2 39 35	8°57'54	0♐ 5	1♏ 5	18° 3	17°10	28°52	24°29	11°54	14°15	20° 7	28°D21	29°16	28°16	n.a.	S 4
S 5	2 43 31	9°58'57	14°13	2°39	18°30	17°51	28°49	24°35	11°57	14°14	20° 5	28°21	29°13	28°23	n.a.	S 5
M 6	2 47 28	11° 0'00	28°28	4°13	18°55	18°33	28°46	24°41	12° 0	14°14	20° 4	28°22	29°10	28°29	n.a.	M 6
T 7	2 51 25	12° 1'05	12♑44	5°47	19°19	19°15	28°42	24°46	12° 4	14°13	20° 3	28°24	29° 7	28°36	n.a.	T 7
W 8	2 55 21	13° 2'09	27° 0	7°21	19°41	19°57	28°38	24°52	12° 7	14°12	20° 2	28°25	29° 4	28°43	n.a.	W 8
T 9	2 59 18	14° 3'15	11♒13	8°55	20° 0	20°38	28°35	24°57	12°10	14°11	20° 1	28°R25	29° 0	28°50	n.a.	T 9
F 10	3 3 14	15° 4'21	25°20	10°29	20°18	21°20	28°30	25° 3	12°13	14°11	20° 0	28°25	28°57	28°56	n.a.	F 10
S 11	3 7 11	16° 5'27	9♓19	12° 3	20°34	22° 2	28°26	25° 8	12°17	14°10	19°59	28°24	28°54	29° 3	n.a.	S 11
S 12	3 11 7	17° 6'34	23°10	13°38	20°48	22°44	28°22	25°14	12°20	14°10	19°58	28°23	28°51	29°10	n.a.	S 12
M13	3 15 4	18° 7'41	6♈50	15°12	20°59	23°26	28°17	25°19	12°23	14° 9	19°57	28°22	28°48	29°16	n.a.	M13
T 14	3 19 0	19° 8'49	20°18	16°46	21° 8	24° 8	28°13	25°24	12°27	14° 9	19°56	28°20	28°44	29°23	n.a.	T 14
W15	3 22 57	20° 9'57	3♉33	18°20	21°15	24°50	28° 8	25°30	12°30	14° 8	19°55	28°19	28°41	29°30	n.a.	W15
T 16	3 26 54	21°11'07	16°34	19°55	21°20	25°32	28° 3	25°35	12°34	14° 8	19°54	28°19	28°38	29°37	n.a.	T 16
F 17	3 30 50	22°12'16	29°20	21°29	21°R22	26°14	27°57	25°40	12°37	14° 7	19°53	28°D18	28°35	29°43	n.a.	F 17
S 18	3 34 47	23°13'27	11♊52	23° 4	21°22	26°56	27°52	25°45	12°40	14° 7	19°53	28°19	28°32	29°50	n.a.	S 18
S 19	3 38 43	24°14'38	24°10	24°39	21°19	27°39	27°46	25°50	12°44	14° 7	19°52	28°19	28°29	29°57	n.a.	S 19
M20	3 42 40	25°15'49	6♋17	26°14	21°14	28°21	27°41	25°54	12°47	14° 6	19°51	28°19	28°25	0♌ 3	n.a.	M20
T 21	3 46 36	26°17'01	18°15	27°49	21° 6	29° 3	27°35	25°59	12°51	14° 6	19°50	28°20	28°22	0°10	n.a.	T 21
W22	3 50 33	27°18'14	0♌ 8	29°24	20°56	29°45	27°29	26° 4	12°54	14° 6	19°49	28°20	28°19	0°17	n.a.	W22
T 23	3 54 29	28°19'28	11°59	1♐ 0	20°43	0♏28	27°23	26° 8	12°58	14° 6	19°48	28°R20	28°16	0°23	n.a.	T 23
F 24	3 58 26	29°20'42	23°53	2°35	20°28	1°10	27°16	26°13	13° 1	14° 5	19°47	28°D20	28°13	0°30	n.a.	F 24
S 25	4 2 23	0♐21'56	5♍55	4°11	20°10	1°52	27°10	26°17	13° 5	14° 5	19°46	28°20	28°10	0°37	n.a.	S 25
S 26	4 6 19	1°23'11	18° 8	5°48	19°50	2°35	27° 3	26°22	13° 8	14° 5	19°46	28°20	28° 6	0°44	n.a.	S 26
M27	4 10 16	2°24'26	0♎39	7°24	19°28	3°17	26°57	26°26	13°12	14° 5	19°45	28°20	28° 3	0°50	n.a.	M27
T 28	4 14 12	3°25'42	13°29	9° 1	19° 4	4° 0	26°50	26°30	13°15	14°D 5	19°44	28°21	28° 0	0°57	n.a.	T 28
W29	4 18 9	4°26'59	26°43	10°37	18°37	4°42	26°43	26°34	13°19	14° 5	19°43	28°22	27°57	1° 4	n.a.	W29
T 30	4 22 5	5♐28'15	10♏21	12♐15	18♐ 9	5♏25	26♊36	26♍38	13♐23	14♓ 5	19♈43	28♏22	27♏54	1♌10	n.a.	T 30

Day	☉		☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	13s38	10s34	3s20	9s37	0n43	27s 4	4s 4	5s26	0n37	23n44	0n 2	4n27	2n19	22s34	0s 8	7s48	1s41	6s26	15s33	20s 2	20s15	16n30		n.a.
T 2	13 59	14 36	2 18	10 18	0 36	27 4	4 1	5 43	0 37	23 44	0 2	4 25	2 19	22 35	0 8	7 48	1 41	6 26	15 33	20 1	20 15	16 28		n.a.
F 3	14 19	17 55	1 7	10 58	0 30	27 3	3 57	5 59	0 36	23 45	0 2	4 23	2 19	22 35	0 8	7 49	1 41	6 26	15 33	20 1	20 14	16 27		n.a.
S 4	14 39	20 14	0n10	11 37	0 23	27 2	3 53	6 16	0 36	23 45	0 3	4 20	2 19	22 36	0 8	7 49	1 41	6 27	15 33	20 1	20 13	16 25		n.a.
S 5	14 58	21 20	1 27	12 17	0 16	27 0	3 49	6 33	0 35	23 45	0 3	4 18	2 19	22 36	0 8	7 49	1 41	6 27	15 33	20 1	20 12	16 23		n.a.
M 6	15 18	21 3	2 39	12 55	0 9	26 57	3 44	6 49	0 35	23 45	0 3	4 16	2 19	22 37	0 8	7 49	1 41	6 27	15 33	20 1	20 12	16 21		n.a.
T 7	15 37	19 25	3 41	13 33	0 3	26 54	3 38	7 6	0 34	23 45	0 3	4 14	2 20	22 37	0 8	7 50	1 41	6 27	15 32	20 1	20 11	16 20		n.a.
W 8	15 56	16 34	4 30	14 11	0s 4	26 50	3 33	7 22	0 34	23 45	0 3	4 12	2 20	22 38	0 8	7 50	1 41	6 28	15 32	20 2	20 10	16 18		n.a.
T 9	16 14	12 46	5 2	14 48	0 11	26 46	3 27	7 38	0 33	23 45	0 3	4 10	2 20	22 38	0 8	7 50	1 41	6 28	15 32	20 2	20 10	16 16		n.a.
F 10	16 32	8 16	5 16	15 24	0 17	26 41	3 20	7 55	0 33	23 45	0 3	4 8	2 20	22 38	0 8	7 50	1 41	6 28	15 32	20 2	20 9	16 14		n.a.
S 11	16 50	3 22	5 11	16 0	0 24	26 35	3 13	8 11	0 32	23 46	0 4	4 6	2 20	22 39	0 8	7 50	1 41	6 28	15 32	20 2	20 8	16 12		n.a.
S 12	17 8	1n39	4 47	16 35	0 30	26 29	3 6	8 27	0 31	23 46	0 4	4 4	2 21	22 39	0 8	7 51	1 41	6 29	15 32	20 1	20 8	16 11		n.a.
M13	17 25	6 32	4 8	17 9	0 36	26 22	2 58	8 43	0 31	23 46	0 4	4 2	2 21	22 40	0 8	7 51	1 41	6 29	15 32	20 1	20 7	16 9		n.a.
T 14	17 42	11 2	3 15	17 43	0 43	26 14	2 50	8 59	0 30	23 46	0 4	4 0	2 21	22 40	0 8	7 51	1 40	6 29	15 31	20 1	20 6	16 7		n.a.
W15	17 59	14 55	2 13	18 15	0 49	26 6	2 41	9 16	0 30	23 46	0 4	3 58	2 21	22 41	0 8	7 51	1 40	6 29	15 31	20 0	20 5	16 5		n.a.
T 16	18 15	18 0	1 5	18 47	0 55	25 57	2 32	9 32	0 29	23 46	0 4	3 56	2 21	22 41	0 8	7 51	1 40	6 29	15 31	20 0	20 5	16 3		n.a.
F 17	18 31	20 8	0s 6	19 18	1 0	25 47	2 22	9 48	0 29	23 46	0 5	3 54	2 22	22 42	0 8	7 51	1 40	6 30	15 31	20 0	20 4	16 2		n.a.
S 18	18 47	21 14	1 15	19 49	1 6	25 37	2 12	10 3	0 28	23 46	0 5	3 52	2 22	22 42	0 8	7 51	1 40	6 30	15 31	20 0	20 3	16 0		n.a.
S 19	19 3	21 16	2 19	20 18	1 11	25 26	2 1	10 19	0 28	23 46	0 5	3 51	2 22	22 42	0 8	7 52	1 40	6 30	15 30	20 0	20 3	15 58		n.a.
M20	19 18	20 18	3 16	20 46	1 17	25 14	1 50	10 35	0 27	23 46	0 5	3 49	2 22	22 43	0 8	7 52	1 40	6 30	15 30	20 1	20 2	15 56		n.a.
T 21	19 32	18 26	4 3	21 13	1 22	25 2	1 38	10 51	0 27	23 46	0 5	3 47	2 22	22 43	0 8	7 52	1 40	6 30	15 30	20 1	20 1	15 54		n.a.
W22	19 47	15 47	4 40	21 40	1 27	24 49	1 26	11 6	0 26	23 46	0 5	3 46	2 23	22 44	0 8	7 52	1 40	6 30	15 30	20 1	20 0	15 53		n.a.
T 23	20 1	12 31	5 5	22 5	1 32	24 36	1 13	11 22	0 25	23 46	0 5	3 44	2 23	22 44	0 8	7 52	1 40	6 30	15 29	20 1	20 0	15 51		n.a.
F 24	20 14	8 44	5 17	22 29	1 36	24 22	1 0	11 37	0 25	23 46	0 6	3 42	2 23	22 45	0 8	7 52	1 40	6 30	15 29	20 1	19 59	15 49		n.a.
S 25	20 27	4 34	5 15	22 52	1 40	24 7	0 47	11 53	0 24	23 46	0 6	3 41	2 23	22 45	0 8	7 52	1 40	6 30	15 29	20 1	19 58	15 47		n.a.
S 26	20 40	0 10	4 59	23 13	1 44	23 51	0 33	12 8	0 24	23 46	0 6	3 39	2 24	22 46	0 8	7 52	1 40	6 31	15 29	20 1	19 58	15 45		n.a.
M27	20 53	4s21	4 29	23 34	1 48	23 35	0 18	12 23	0 23	23 46	0 6	3 38	2 24	22 46	0 8	7 52	1 40	6 31	15 29	20 1	19 57	15 44		n.a.
T 28	21 5	8 49	3 44	23 53	1 52	23 19	0 4	12 38	0 22	23 46	0 6	3 36	2 24	22 47	0 8	7 52	1 40	6 31	15 28	20 1	19 56	15 42		n.a.
W29	21 16	13 0	2 47	24 11	1 55	23 2	0n11	12 54	0 22	23 46	0 6	3 35	2 24	22 47	0 8	7 52	1 40	6 31	15 28	20 1	19 55	15 40		n.a.
T 30	21s27	16s39	1s38	24s27	1s58	22s44	0n26	13s 8	0n21	23n46	0n 7	3n33	2n25	22s47	0s 8	7s52	1s40	6s31	15s28	20s 1	19s55	15n38		n.a.

Julian Day Number = 1681184.5, Delta T = 03h15m23s
Ecliptic obliquity = 23°42'26, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'12, Lahiri = - 5°28'11 Julian Calendar 1 Nov. 111 BCE == Greg. Calendar 29 Oct. 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 111 BCE
geocentric

DECEMBER 111 BCE (-110) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	4 26 2	6♐29'32	24♏22	13♐52	17°R39	6♏ 8	26°R29	26♍42	13♐26	14♓ 5	19°R42	28°R22	27♏50	1♌17	n.a.	F 1
S 2	4 29 58	7°30'49	8♐43	15°30	17♐ 7	6°50	26♊21	26°46	13°30	14° 5	19♈41	28♏22	27°47	1°24	n.a.	S 2
S 3	4 33 55	8°32'06	23°19	17° 7	16°34	7°33	26°14	26°50	13°33	14° 5	19°40	28°22	27°44	1°31	n.a.	S 3
M 4	4 37 52	9°33'23	8♑ 3	18°45	16° 0	8°16	26° 7	26°54	13°37	14° 6	19°40	28°21	27°41	1°37	n.a.	M 4
T 5	4 41 48	10°34'40	22°49	20°23	15°24	8°59	25°59	26°57	13°41	14° 6	19°39	28°19	27°38	1°44	n.a.	T 5
W 6	4 45 45	11°35'56	7♒28	22° 1	14°48	9°41	25°52	27° 1	13°44	14° 6	19°38	28°17	27°35	1°51	n.a.	W 6
T 7	4 49 41	12°37'12	21°56	23°40	14°12	10°24	25°44	27° 4	13°48	14° 6	19°38	28°16	27°31	1°57	n.a.	T 7
F 8	4 53 38	13°38'27	6♓ 9	25°18	13°35	11° 7	25°36	27° 7	13°51	14° 7	19°37	28°15	27°28	2° 4	n.a.	F 8
S 9	4 57 34	14°39'41	20° 4	26°56	12°58	11°50	25°28	27°11	13°55	14° 7	19°37	28°D15	27°25	2°11	n.a.	S 9
S 10	5 1 31	15°40'55	3♈42	28°33	12°22	12°33	25°21	27°14	13°58	14° 7	19°36	28°16	27°22	2°18	n.a.	S 10
M11	5 5 28	16°42'08	17° 3	0♑11	11°46	13°16	25°13	27°17	14° 2	14° 8	19°35	28°17	27°19	2°24	n.a.	M11
T 12	5 9 24	17°43'21	0♉ 7	1°48	11°11	13°59	25° 5	27°20	14° 6	14° 8	19°35	28°19	27°15	2°31	n.a.	T 12
W13	5 13 21	18°44'33	12°58	3°24	10°37	14°42	24°57	27°23	14° 9	14° 9	19°34	28°20	27°12	2°38	n.a.	W13
T 14	5 17 17	19°45'44	25°37	4°59	10° 4	15°25	24°49	27°25	14°13	14° 9	19°34	28°R21	27° 9	2°44	n.a.	T 14
F 15	5 21 14	20°46'55	8♊ 4	6°33	9°33	16° 8	24°41	27°28	14°16	14°10	19°33	28°20	27° 6	2°51	n.a.	F 15
S 16	5 25 10	21°48'05	20°21	8° 5	9° 3	16°51	24°33	27°31	14°20	14°11	19°33	28°19	27° 3	2°58	n.a.	S 16
S 17	5 29 7	22°49'15	2♋30	9°35	8°35	17°35	24°25	27°33	14°24	14°11	19°32	28°16	27° 0	3° 4	n.a.	S 17
M18	5 33 3	23°50'24	14°31	11° 4	8° 9	18°18	24°17	27°35	14°27	14°12	19°32	28°12	26°56	3°11	n.a.	M18
T 19	5 37 0	24°51'33	26°27	12°29	7°45	19° 1	24° 9	27°38	14°31	14°13	19°32	28° 7	26°53	3°18	n.a.	T 19
W20	5 40 57	25°52'41	8♌19	13°51	7°24	19°44	24° 0	27°40	14°34	14°13	19°31	28° 2	26°50	3°25	n.a.	W20
T 21	5 44 53	26°53'48	20°10	15°10	7° 5	20°28	23°52	27°42	14°38	14°14	19°31	27°57	26°47	3°31	n.a.	T 21
F 22	5 48 50	27°54'55	2♍ 3	16°24	6°48	21°11	23°44	27°44	14°41	14°15	19°31	27°53	26°44	3°38	n.a.	F 22
S 23	5 52 46	28°56'01	14° 3	17°32	6°34	21°54	23°36	27°46	14°45	14°16	19°30	27°51	26°41	3°45	n.a.	S 23
S 24	5 56 43	29°57'07	26°13	18°35	6°22	22°38	23°28	27°48	14°48	14°17	19°30	27°D50	26°37	3°51	n.a.	S 24
M25	6 0 39	0♑58'12	8♎38	19°30	6°13	23°21	23°20	27°49	14°52	14°17	19°30	27°50	26°34	3°58	n.a.	M25
T 26	6 4 36	1°59'16	21°22	20°18	6° 6	24° 5	23°12	27°51	14°55	14°18	19°29	27°51	26°31	4° 5	n.a.	T 26
W27	6 8 32	3° 0'20	4♏30	20°57	6° 2	24°48	23° 5	27°52	14°59	14°19	19°29	27°53	26°28	4°12	n.a.	W27
T 28	6 12 29	4° 1'23	18° 5	21°27	6°D 0	25°32	22°57	27°54	15° 2	14°20	19°29	27°54	26°25	4°18	n.a.	T 28
F 29	6 16 26	5° 2'25	2♐ 8	21°47	6° 0	26°16	22°49	27°55	15° 6	14°21	19°29	27°R54	26°21	4°25	n.a.	F 29
S 30	6 20 22	6° 3'27	16°37	21°R56	6° 3	26°59	22°41	27°56	15° 9	14°22	19°29	27°53	26°18	4°32	n.a.	S 30
S 31	6 24 19	7♑ 4'27	1♑29	21♑54	6♐ 9	27♏43	22♊34	27♍57	15♐13	14♓24	19♈28	27♏50	26♏15	4♌38	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21s38	19s26	0s22	24s42	2s 0	22s26	0n42	13s23	0n21	23n46	0n 7	3n32	2n25	22s48	0s 8	7s52	1s40	6s31	15s28	20s 1	19s54	15n36		n.a.
S 2	21 48	21 4	0n57	24 56	2 2	22 7	0 57	13 38	0 20	23 46	0 7	3 31	2 25	22 48	0 8	7 51	1 40	6 31	15 27	20 1	19 53	15 34		n.a.
S 3	21 58	21 18	2 14	25 8	2 4	21 49	1 13	13 53	0 19	23 46	0 7	3 29	2 25	22 49	0 8	7 51	1 40	6 31	15 27	20 1	19 53	15 33		n.a.
M 4	22 8	20 5	3 23	25 19	2 6	21 30	1 29	14 7	0 19	23 46	0 7	3 28	2 26	22 49	0 8	7 51	1 39	6 31	15 27	20 1	19 52	15 31		n.a.
T 5	22 17	17 31	4 18	25 28	2 7	21 10	1 44	14 22	0 18	23 46	0 7	3 27	2 26	22 50	0 8	7 51	1 39	6 31	15 26	20 0	19 51	15 29		n.a.
W 6	22 26	13 50	4 56	25 35	2 7	20 51	2 0	14 36	0 18	23 46	0 8	3 26	2 26	22 50	0 8	7 51	1 39	6 31	15 26	20 0	19 50	15 27		n.a.
T 7	22 34	9 24	5 14	25 40	2 7	20 32	2 15	14 50	0 17	23 46	0 8	3 25	2 26	22 51	0 8	7 51	1 39	6 31	15 26	20 0	19 50	15 25		n.a.
F 8	22 42	4 30	5 13	25 44	2 7	20 12	2 30	15 4	0 16	23 46	0 8	3 24	2 27	22 51	0 8	7 51	1 39	6 31	15 26	20 0	19 49	15 23		n.a.
S 9	22 49	0n31	4 54	25 46	2 6	19 53	2 45	15 18	0 16	23 46	0 8	3 23	2 27	22 51	0 8	7 50	1 39	6 31	15 25	20 0	19 48	15 21		n.a.
S 10	22 56	5 25	4 18	25 46	2 5	19 34	2 59	15 32	0 15	23 46	0 8	3 22	2 27	22 52	0 8	7 50	1 39	6 31	15 25	20 0	19 47	15 20		n.a.
M11	23 2	9 58	3 29	25 45	2 2	19 16	3 13	15 46	0 14	23 45	0 8	3 21	2 27	22 52	0 8	7 50	1 39	6 31	15 25	20 0	19 47	15 18		n.a.
T 12	23 8	13 58	2 30	25 41	2 0	18 58	3 26	16 0	0 14	23 45	0 8	3 20	2 28	22 53	0 8	7 50	1 39	6 31	15 24	20 0	19 46	15 16		n.a.
W13	23 13	17 14	1 24	25 36	1 56	18 40	3 39	16 13	0 13	23 45	0 9	3 19	2 28	22 53	0 8	7 50	1 39	6 30	15 24	20 1	19 45	15 14		n.a.
T 14	23 18	19 37	0 15	25 29	1 52	18 23	3 52	16 27	0 12	23 45	0 9	3 18	2 28	22 54	0 8	7 49	1 39	6 30	15 24	20 1	19 44	15 12		n.a.
F 15	23 23	21 1	0s53	25 20	1 47	18 7	4 3	16 40	0 12	23 45	0 9	3 17	2 29	22 54	0 8	7 49	1 39	6 30	15 24	20 1	19 44	15 10		n.a.
S 16	23 27	21 23	1 58	25 9	1 42	17 52	4 14	16 53	0 11	23 45	0 9	3 16	2 29	22 55	0 8	7 49	1 39	6 30	15 23	20 0	19 43	15 8		n.a.
S 17	23 31	20 44	2 57	24 56	1 35	17 37	4 25	17 6	0 10	23 44	0 9	3 16	2 29	22 55	0 8	7 48	1 39	6 30	15 23	20 0	19 42	15 7		n.a.
M18	23 34	19 9	3 47	24 42	1 28	17 24	4 35	17 19	0 10	23 44	0 9	3 15	2 29	22 55	0 8	7 48	1 39	6 30	15 23	19 59	19 42	15 5		n.a.
T 19	23 36	16 44	4 27	24 26	1 20	17 11	4 44	17 32	0 9	23 44	0 10	3 14	2 30	22 56	0 8	7 48	1 39	6 30	15 22	19 58	19 41	15 3		n.a.
W20	23 39	13 39	4 55	24 9	1 11	16 59	4 52	17 44	0 8	23 44	0 10	3 14	2 30	22 56	0 8	7 47	1 39	6 30	15 22	19 57	19 40	15 1		n.a.
T 21	23 40	10 2	5 10	23 50	1 0	16 48	5 0	17 57	0 8	23 44	0 10	3 13	2 30	22 57	0 8	7 47	1 39	6 29	15 22	19 56	19 39	14 59		n.a.
F 22	23 41	6 1	5 12	23 30	0 49	16 38	5 7	18 9	0 7	23 43	0 10	3 12	2 30	22 57	0 8	7 47	1 39	6 29	15 21	19 55	19 39	14 57		n.a.
S 23	23 42	1 44	5 0	23 9	0 37	16 30	5 14	18 21	0 6	23 43	0 10	3 12	2 31	22 57	0 8	7 46	1 39	6 29	15 21	19 54	19 38	14 55		n.a.
S 24	23 42	2s41	4 35	22 48	0 24	16 22	5 20	18 33	0 5	23 43	0 10	3 11	2 31	22 58	0 8	7 46	1 38	6 29	15 21	19 54	19 37	14 53		n.a.
M25	23 42	7 5	3 57	22 26	0 10	16 15	5 25	18 45	0 5	23 43	0 10	3 11	2 31	22 58	0 8	7 46	1 38	6 29	15 20	19 54	19 36	14 52		n.a.
T 26	23 42	11 18	3 6	22 4	0n 6	16 10	5 29	18 56	0 4	23 42	0 11	3 11	2 32	22 59	0 8	7 45	1 38	6 28	15 20	19 54	19 36	14 50		n.a.
W27	23 40	15 7	2 4	21 42	0 22	16 5	5 33	19 8	0 3	23 42	0 11	3 10	2 32	22 59	0 8	7 45	1 38	6 28	15 20	19 54	19 35	14 48		n.a.
T 28	23 39	18 16	0 53	21 20	0 39	16 1	5 37	19 19	0 2	23 42	0 11	3 10	2 32	23 0	0 8	7 44	1 38	6 28	15 19	19 55	19 34	14 46		n.a.
F 29	23 37	20 27	0n23	21 0	0 56	15 58	5 40	19 30	0 2	23 41	0 11	3 10	2 32	23 0	0 8	7 44	1 38	6 28	15 19	19 55	19 33	14 44		n.a.
S 30	23 34	21 22	1 40	20 41	1 14	15 57	5 42	19 41	0 1	23 41	0 11	3 10	2 33	23 0	0 8	7 43	1 38	6 27	15 19	19 55	19 33	14 42		n.a.
S 31	23s31	20s50	2n52	20s23	1n32	15s56	5n44	19s52	0n 0	23n41	0n11	3n10	2n33	23s 1	0s 8	7s43	1s38	6s27	15s18	19s54	19s32	14n40		n.a.

Julian Day Number = 1681214.5, Delta T = 03h15m22s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'08, Lahiri = - 5°28'07 Julian Calendar 1 Dec. 111 BCE == Greg. Calendar 28 Nov. 111 BCE

The year -110 astronomical counting style corresponds to year 111 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

JANUARY 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	6 28 15	8♉ 5'27	16♉35	21°R41	6♐17	28♏27	22°R26	27♍58	15♐16	14♓25	19°R28	27°R44	26♏12	4♌45	n.a.	M 1
T 2	6 32 12	9° 6'25	1♒46	21♉17	6°27	29°10	22♊19	27°59	15°19	14°26	19♈28	27♏38	26° 9	4°52	n.a.	T 2
W 3	6 36 8	10° 7'22	16°51	20°41	6°39	29°54	22°11	28° 0	15°23	14°27	19°28	27°31	26° 6	4°59	n.a.	W 3
T 4	6 40 5	11° 8'17	1♓42	19°56	6°53	0♐38	22° 4	28° 0	15°26	14°28	19°28	27°25	26° 2	5° 5	n.a.	T 4
F 5	6 44 2	12° 9'11	16°11	19° 2	7° 9	1°22	21°57	28° 1	15°29	14°29	19°28	27°21	25°59	5°12	n.a.	F 5
S 6	6 47 58	13°10'03	0♈15	18° 0	7°28	2° 6	21°50	28° 1	15°33	14°31	19°D28	27°18	25°56	5°19	n.a.	S 6
S 7	6 51 55	14°10'53	13°54	16°53	7°48	2°50	21°43	28° 1	15°36	14°32	19°28	27°D17	25°53	5°25	n.a.	S 7
M 8	6 55 51	15°11'42	27° 9	15°43	8°10	3°33	21°36	28° 2	15°39	14°33	19°28	27°18	25°50	5°32	n.a.	M 8
T 9	6 59 48	16°12'30	10♉ 2	14°31	8°34	4°17	21°29	28°R 2	15°42	14°35	19°28	27°19	25°47	5°39	n.a.	T 9
W10	7 3 44	17°13'15	22°38	13°19	9° 0	5° 1	21°22	28° 2	15°46	14°36	19°28	27°R20	25°43	5°46	n.a.	W10
T 11	7 7 41	18°13'59	5♊ 1	12°10	9°27	5°45	21°16	28° 2	15°49	14°38	19°28	27°20	25°40	5°52	n.a.	T 11
F 12	7 11 37	19°14'42	17°13	11° 5	9°56	6°29	21°10	28° 1	15°52	14°39	19°28	27°18	25°37	5°59	n.a.	F 12
S 13	7 15 34	20°15'22	29°17	10° 5	10°27	7°13	21° 3	28° 1	15°55	14°40	19°29	27°13	25°34	6° 6	n.a.	S 13
S 14	7 19 31	21°16'01	11♋16	9°11	10°59	7°58	20°57	28° 1	15°58	14°42	19°29	27° 6	25°31	6°13	n.a.	S 14
M15	7 23 27	22°16'39	23°11	8°24	11°33	8°42	20°51	28° 0	16° 1	14°43	19°29	26°56	25°27	6°19	n.a.	M15
T 16	7 27 24	23°17'15	5♌ 4	7°45	12° 8	9°26	20°46	28° 0	16° 4	14°45	19°29	26°45	25°24	6°26	n.a.	T 16
W17	7 31 20	24°17'49	16°56	7°14	12°44	10°10	20°40	27°59	16° 7	14°47	19°29	26°34	25°21	6°33	n.a.	W17
T 18	7 35 17	25°18'22	28°49	6°51	13°22	10°54	20°34	27°58	16°10	14°48	19°30	26°22	25°18	6°39	n.a.	T 18
F 19	7 39 13	26°18'53	10♍45	6°36	14° 1	11°38	20°29	27°57	16°13	14°50	19°30	26°12	25°15	6°46	n.a.	F 19
S 20	7 43 10	27°19'23	22°46	6°28	14°41	12°23	20°24	27°56	16°16	14°51	19°30	26° 4	25°12	6°53	n.a.	S 20
S 21	7 47 6	28°19'51	4♎56	6°D27	15°22	13° 7	20°19	27°55	16°19	14°53	19°31	25°59	25° 8	7° 0	n.a.	S 21
M22	7 51 3	29°20'17	17°18	6°33	16° 4	13°51	20°14	27°54	16°22	14°55	19°31	25°56	25° 5	7° 6	n.a.	M22
T 23	7 55 0	0♒20'43	29°57	6°45	16°47	14°36	20° 9	27°52	16°25	14°57	19°31	25°D55	25° 2	7°13	n.a.	T 23
W24	7 58 56	1°21'07	12♏57	7° 3	17°32	15°20	20° 5	27°51	16°28	14°58	19°32	25°56	24°59	7°20	n.a.	W24
T 25	8 2 53	2°21'29	26°22	7°27	18°17	16° 4	20° 0	27°49	16°30	15° 0	19°32	25°R56	24°56	7°26	n.a.	T 25
F 26	8 6 49	3°21'50	10♐16	7°56	19° 3	16°49	19°56	27°48	16°33	15° 2	19°32	25°55	24°53	7°33	n.a.	F 26
S 27	8 10 46	4°22'09	24°38	8°30	19°50	17°33	19°52	27°46	16°36	15° 4	19°33	25°52	24°49	7°40	n.a.	S 27
S 28	8 14 42	5°22'27	9♉27	9° 8	20°38	18°18	19°48	27°44	16°39	15° 5	19°33	25°47	24°46	7°47	n.a.	S 28
M29	8 18 39	6°22'43	24°36	9°50	21°27	19° 2	19°45	27°42	16°41	15° 7	19°34	25°38	24°43	7°53	n.a.	M29
T 30	8 22 35	7°22'57	9♒56	10°36	22°17	19°47	19°41	27°40	16°44	15° 9	19°34	25°28	24°40	8° 0	n.a.	T 30
W31	8 26 32	8♒23'09	25♒15	11♉26	23♐ 7	20♐31	19♊38	27♍38	16♐46	15♓11	19♈35	25♏17	24♏37	8♌ 7	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	23s27	18s48	3n53	20s 7	1n51	15s55	5n45	20s 3	0s 0	23n41	0n11	3n 9	2n33	23s 1	0s 8	7s42	1s38	6s27	15s18	19s53	19s31	14n38			n.a.
T 2	23 23	15 28	4 38	19 53	2 9	15 56	5 46	20 13	0 1	23 40	0 11	3 9	2 34	23 1	0 8	7 42	1 38	6 27	15 18	19 51	19 30	14 36			n.a.
W 3	23 19	11 8	5 4	19 41	2 26	15 58	5 47	20 23	0 2	23 40	0 12	3 9	2 34	23 2	0 8	7 41	1 38	6 26	15 17	19 50	19 30	14 34			n.a.
T 4	23 14	6 12	5 8	19 32	2 42	16 0	5 47	20 33	0 3	23 40	0 12	3 9	2 34	23 2	0 8	7 41	1 38	6 26	15 17	19 48	19 29	14 33			n.a.
F 5	23 9	1 1	4 53	19 25	2 57	16 3	5 47	20 43	0 3	23 39	0 12	3 9	2 34	23 3	0 8	7 40	1 38	6 26	15 17	19 47	19 28	14 31			n.a.
S 6	23 3	4n 4	4 20	19 20	3 11	16 6	5 46	20 53	0 4	23 39	0 12	3 9	2 35	23 3	0 8	7 40	1 38	6 26	15 16	19 47	19 27	14 29			n.a.
S 7	22 57	8 48	3 33	19 17	3 22	16 11	5 45	21 2	0 5	23 39	0 12	3 10	2 35	23 3	0 8	7 39	1 38	6 25	15 16	19 46	19 27	14 27			n.a.
M 8	22 50	12 59	2 36	19 16	3 31	16 15	5 44	21 12	0 6	23 38	0 12	3 10	2 35	23 4	0 8	7 39	1 38	6 25	15 16	19 46	19 26	14 25			n.a.
T 9	22 43	16 27	1 32	19 18	3 38	16 21	5 42	21 21	0 7	23 38	0 12	3 10	2 36	23 4	0 8	7 38	1 38	6 25	15 15	19 47	19 25	14 23			n.a.
W10	22 35	19 3	0 25	19 21	3 43	16 26	5 40	21 30	0 7	23 38	0 13	3 10	2 36	23 4	0 8	7 38	1 38	6 24	15 15	19 47	19 24	14 21			n.a.
T 11	22 27	20 42	0s41	19 25	3 45	16 33	5 38	21 38	0 8	23 38	0 13	3 11	2 36	23 5	0 8	7 37	1 38	6 24	15 15	19 47	19 23	14 19			n.a.
F 12	22 18	21 21	1 45	19 31	3 44	16 39	5 36	21 47	0 9	23 37	0 13	3 11	2 36	23 5	0 8	7 36	1 38	6 23	15 14	19 46	19 23	14 17			n.a.
S 13	22 10	20 59	2 43	19 38	3 42	16 46	5 33	21 55	0 10	23 37	0 13	3 11	2 37	23 5	0 8	7 36	1 38	6 23	15 14	19 45	19 22	14 15			n.a.
S 14	22 0	19 41	3 33	19 46	3 38	16 54	5 30	22 3	0 11	23 37	0 13	3 12	2 37	23 6	0 8	7 35	1 38	6 23	15 14	19 44	19 21	14 13			n.a.
M15	21 51	17 31	4 14	19 55	3 32	17 1	5 27	22 11	0 11	23 36	0 13	3 12	2 37	23 6	0 8	7 35	1 38	6 22	15 13	19 41	19 20	14 12			n.a.
T 16	21 40	14 38	4 43	20 5	3 24	17 9	5 24	22 19	0 12	23 36	0 13	3 13	2 38	23 7	0 8	7 34	1 37	6 22	15 13	19 39	19 20	14 10			n.a.
W17	21 30	11 10	5 0	20 15	3 16	17 17	5 20	22 26	0 13	23 36	0 13	3 13	2 38	23 7	0 8	7 33	1 37	6 22	15 13	19 36	19 19	14 8			n.a.
T 18	21 19	7 16	5 4	20 26	3 6	17 25	5 16	22 33	0 14	23 36	0 13	3 14	2 38	23 7	0 8	7 33	1 37	6 21	15 12	19 33	19 18	14 6			n.a.
F 19	21 7	3 5	4 54	20 37	2 55	17 34	5 13	22 40	0 15	23 35	0 14	3 14	2 38	23 7	0 8	7 32	1 37	6 21	15 12	19 31	19 17	14 4			n.a.
S 20	20 56	1s15	4 32	20 49	2 44	17 42	5 9	22 47	0 15	23 35	0 14	3 15	2 39	23 8	0 8	7 31	1 37	6 20	15 12	19 29	19 17	14 2			n.a.
S 21	20 44	5 36	3 57	21 0	2 33	17 51	5 4	22 54	0 16	23 35	0 14	3 16	2 39	23 8	0 8	7 31	1 37	6 20	15 11	19 28	19 16	14 0			n.a.
M22	20 31	9 48	3 11	21 12	2 21	18 0	5 0	23 0	0 17	23 34	0 14	3 17	2 39	23 8	0 8	7 30	1 37	6 19	15 11	19 27	19 15	13 58			n.a.
T 23	20 18	13 40	2 14	21 23	2 9	18 8	4 56	23 6	0 18	23 34	0 14	3 17	2 39	23 9	0 8	7 29	1 37	6 19	15 11	19 27	19 14	13 56			n.a.
W24	20 5	16 59	1 9	21 34	1 57	18 17	4 51	23 12	0 19	23 34	0 14	3 18	2 40	23 9	0 9	7 29	1 37	6 19	15 10	19 27	19 13	13 54			n.a.
T 25	19 51	19 31	0n 2	21 45	1 45	18 26	4 46	23 18	0 20	23 34	0 14	3 19	2 40	23 9	0 9	7 28	1 37	6 18	15 10	19 27	19 13	13 52			n.a.
F 26	19 37	21 0	1 15	21 55	1 33	18 34	4 42	23 23	0 21	23 34	0 14	3 20	2 40	23 10	0 9	7 27	1 37	6 18	15 10	19 27	19 12	13 50			n.a.
S 27	19 23	21 10	2 26	22 5	1 21	18 43	4 37	23 28	0 21	23 33	0 14	3 21	2 41	23 10	0 9	7 26	1 37	6 17	15 9	19 26	19 11	13 48			n.a.
S 28	19 8	19 53	3 29	22 14	1 9	18 51	4 32	23 33	0 22	23 33	0 15	3 22	2 41	23 10	0 9	7 26	1 37	6 17	15 9	19 25	19 10	13 46			n.a.
M29	18 53	17 12	4 19	22 23	0 58	19 0	4 27	23 38	0 23	23 33	0 15	3 23	2 41	23 10	0 9	7 25	1 37	6 16	15 9	19 23	19 10	13 44			n.a.
T 30	18 38	13 17	4 51	22 30	0 46	19 8	4 22	23 42	0 24	23 33	0 15	3 24	2 41	23 11	0 9	7 24	1 37	6 16	15 8	19 21	19 9	13 42			n.a.
W31	18s22	8s31	5n 2	22s37	0n35	19s16	4n16	23s47	0s25	23n33	0n15	3n25	2n42	23s11	0s 9	7s23	1s37	6s15	15s 8	19s18	19s 8	13n40			n.a.

Julian Day Number = 1681245.5, Delta T = 03h15m21s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°35'04, Lahiri = - 5°28'03 Julian Calendar 1 Jan. 110 BCE == Greg. Calendar 29 Dec. 111 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

FEBRUARY 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 30 29	9♒23'19	10♓23	12♉19	23♐58	21♐16	19°R35	27°R36	16♐49	15♓13	19♈35	25°R 7	24♏33	8♌13	n.a.	T 1
F 2	8 34 25	10°23'27	25° 8	13°15	24°50	22° 1	19♊32	27♍33	16°51	15°15	19°36	24♏59	24°30	8°20	n.a.	F 2
S 3	8 38 22	11°23'32	9♈26	14°14	25°42	22°45	19°29	27°31	16°54	15°17	19°37	24°53	24°27	8°27	n.a.	S 3
S 4	8 42 18	12°23'36	23°15	15°15	26°35	23°30	19°27	27°29	16°56	15°19	19°37	24°49	24°24	8°34	n.a.	S 4
M 5	8 46 15	13°23'37	6♉34	16°19	27°29	24°14	19°24	27°26	16°59	15°21	19°38	24°48	24°21	8°40	n.a.	M 5
T 6	8 50 11	14°23'36	19°28	17°25	28°23	24°59	19°22	27°23	17° 1	15°23	19°38	24°48	24°18	8°47	n.a.	T 6
W 7	8 54 8	15°23'32	2♊ 1	18°34	29°18	25°44	19°20	27°21	17° 3	15°25	19°39	24°48	24°14	8°54	n.a.	W 7
T 8	8 58 4	16°23'27	14°17	19°44	0♉13	26°29	19°18	27°18	17° 6	15°27	19°40	24°46	24°11	9° 0	n.a.	T 8
F 9	9 2 1	17°23'19	26°22	20°57	1° 9	27°13	19°17	27°15	17° 8	15°29	19°40	24°43	24° 8	9° 7	n.a.	F 9
S 10	9 5 58	18°23'09	8♋19	22°11	2° 5	27°58	19°16	27°12	17°10	15°31	19°41	24°37	24° 5	9°14	n.a.	S 10
S 11	9 9 54	19°22'56	20°12	23°27	3° 2	28°43	19°14	27° 9	17°12	15°33	19°42	24°27	24° 2	9°21	n.a.	S 11
M12	9 13 51	20°22'42	2♌ 3	24°45	3°59	29°28	19°13	27° 6	17°14	15°35	19°43	24°15	23°59	9°27	n.a.	M12
T 13	9 17 47	21°22'25	13°55	26° 5	4°57	0♉12	19°13	27° 3	17°16	15°37	19°43	24° 1	23°55	9°34	n.a.	T 13
W14	9 21 44	22°22'06	25°49	27°26	5°55	0°57	19°12	26°59	17°18	15°39	19°44	23°47	23°52	9°41	n.a.	W14
T 15	9 25 40	23°21'44	7♍47	28°49	6°54	1°42	19°12	26°56	17°20	15°41	19°45	23°32	23°49	9°47	n.a.	T 15
F 16	9 29 37	24°21'21	19°49	0♒13	7°53	2°27	19°11	26°53	17°22	15°44	19°46	23°20	23°46	9°54	n.a.	F 16
S 17	9 33 33	25°20'56	1♎57	1°39	8°52	3°12	19°D11	26°49	17°24	15°46	19°47	23° 9	23°43	10° 1	n.a.	S 17
S 18	9 37 30	26°20'29	14°13	3° 6	9°52	3°57	19°12	26°45	17°26	15°48	19°48	23° 2	23°39	10° 8	n.a.	S 18
M19	9 41 26	27°20'00	26°40	4°34	10°52	4°42	19°12	26°42	17°28	15°50	19°48	22°57	23°36	10°14	n.a.	M19
T 20	9 45 23	28°19'29	9♏20	6° 4	11°53	5°26	19°13	26°38	17°29	15°52	19°49	22°55	23°33	10°21	n.a.	T 20
W21	9 49 20	29°18'56	22°18	7°36	12°54	6°11	19°13	26°34	17°31	15°54	19°50	22°55	23°30	10°28	n.a.	W21
T 22	9 53 16	0♓18'22	5♐37	9° 8	13°55	6°56	19°14	26°31	17°33	15°57	19°51	22°55	23°27	10°35	n.a.	T 22
F 23	9 57 13	1°17'45	19°21	10°43	14°57	7°41	19°15	26°27	17°34	15°59	19°52	22°54	23°24	10°41	n.a.	F 23
S 24	10 1 9	2°17'07	3♉30	12°18	15°59	8°26	19°17	26°23	17°36	16° 1	19°53	22°51	23°20	10°48	n.a.	S 24
S 25	10 5 6	3°16'27	18° 4	13°55	17° 1	9°11	19°18	26°19	17°37	16° 3	19°54	22°45	23°17	10°55	n.a.	S 25
M26	10 9 2	4°15'45	3♒ 0	15°33	18° 3	9°56	19°20	26°15	17°39	16° 5	19°55	22°37	23°14	11° 1	n.a.	M26
T 27	10 12 59	5°15'01	18°10	17°12	19° 6	10°41	19°22	26°11	17°40	16° 8	19°56	22°27	23°11	11° 8	n.a.	T 27
W28	10 16 55	6♓14'15	3♓24	18♒53	20♉ 9	11♉26	19♊24	26♍ 7	17♐41	16♓10	19♈57	22♏16	23♏ 8	11♌15	n.a.	W28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	18s 6	3s16	4n51	22s43	0n24	19s23	4n11	23s51	0s26	23n32	0n15	3n26	2n42	23s11	0s 9	7s23	1s37	6s15	15s 8	19s15	19s 7	13n39		n.a.
F 2	17 50	2n 2	4 21	22 49	0 14	19 31	4 6	23 54	0 27	23 32	0 15	3 27	2 42	23 12	0 9	7 22	1 37	6 14	15 7	19 13	19 6	13 37		n.a.
S 3	17 33	7 5	3 36	22 53	0 4	19 38	4 0	23 58	0 27	23 32	0 15	3 28	2 42	23 12	0 9	7 21	1 37	6 14	15 7	19 12	19 6	13 35		n.a.
S 4	17 16	11 35	2 39	22 56	0s 6	19 45	3 55	24 1	0 28	23 32	0 15	3 30	2 42	23 12	0 9	7 20	1 37	6 13	15 7	19 11	19 5	13 33		n.a.
M 5	16 59	15 21	1 35	22 58	0 16	19 52	3 49	24 4	0 29	23 32	0 15	3 31	2 43	23 12	0 9	7 19	1 37	6 13	15 6	19 11	19 4	13 31		n.a.
T 6	16 42	18 15	0 28	22 59	0 25	19 58	3 44	24 7	0 30	23 32	0 15	3 32	2 43	23 13	0 9	7 19	1 37	6 12	15 6	19 11	19 3	13 29		n.a.
W 7	16 24	20 10	0s38	22 58	0 34	20 4	3 38	24 9	0 31	23 32	0 16	3 33	2 43	23 13	0 9	7 18	1 37	6 12	15 6	19 11	19 3	13 27		n.a.
T 8	16 6	21 6	1 41	22 57	0 43	20 10	3 33	24 11	0 32	23 32	0 16	3 35	2 43	23 13	0 9	7 17	1 37	6 11	15 5	19 10	19 2	13 25		n.a.
F 9	15 48	21 1	2 39	22 54	0 51	20 15	3 27	24 13	0 33	23 32	0 16	3 36	2 44	23 13	0 9	7 16	1 37	6 11	15 5	19 10	19 1	13 23		n.a.
S 10	15 29	19 59	3 28	22 50	0 59	20 20	3 21	24 15	0 34	23 32	0 16	3 38	2 44	23 14	0 9	7 15	1 37	6 10	15 5	19 8	19 0	13 21		n.a.
S 11	15 10	18 5	4 8	22 44	1 7	20 25	3 16	24 17	0 35	23 32	0 16	3 39	2 44	23 14	0 9	7 14	1 37	6 10	15 5	19 6	18 59	13 19		n.a.
M12	14 51	15 25	4 38	22 37	1 14	20 29	3 10	24 18	0 35	23 32	0 16	3 40	2 44	23 14	0 9	7 14	1 37	6 9	15 4	19 3	18 59	13 17		n.a.
T 13	14 32	12 8	4 55	22 29	1 20	20 33	3 4	24 19	0 36	23 32	0 16	3 42	2 44	23 14	0 9	7 13	1 37	6 8	15 4	18 59	18 58	13 15		n.a.
W14	14 13	8 22	4 59	22 20	1 27	20 36	2 58	24 20	0 37	23 32	0 16	3 43	2 45	23 14	0 9	7 12	1 37	6 8	15 4	18 56	18 57	13 13		n.a.
T 15	13 53	4 16	4 50	22 9	1 33	20 39	2 53	24 20	0 38	23 32	0 16	3 45	2 45	23 15	0 9	7 11	1 37	6 7	15 3	18 52	18 56	13 11		n.a.
F 16	13 33	0s 2	4 29	21 56	1 39	20 41	2 47	24 20	0 39	23 32	0 16	3 46	2 45	23 15	0 9	7 10	1 37	6 7	15 3	18 49	18 55	13 9		n.a.
S 17	13 13	4 22	3 54	21 42	1 44	20 43	2 41	24 20	0 40	23 32	0 16	3 48	2 45	23 15	0 9	7 9	1 37	6 6	15 3	18 46	18 55	13 7		n.a.
S 18	12 53	8 34	3 9	21 27	1 49	20 45	2 36	24 20	0 41	23 32	0 16	3 50	2 45	23 15	0 9	7 9	1 37	6 6	15 3	18 44	18 54	13 5		n.a.
M19	12 32	12 28	2 14	21 10	1 53	20 46	2 30	24 19	0 42	23 32	0 17	3 51	2 46	23 15	0 9	7 8	1 37	6 5	15 2	18 43	18 53	13 3		n.a.
T 20	12 11	15 53	1 11	20 51	1 57	20 47	2 24	24 18	0 43	23 32	0 17	3 53	2 46	23 16	0 9	7 7	1 37	6 4	15 2	18 42	18 52	13 1		n.a.
W21	11 50	18 36	0 3	20 31	2 1	20 47	2 18	24 17	0 44	23 33	0 17	3 55	2 46	23 16	0 9	7 6	1 37	6 4	15 2	18 42	18 51	12 59		n.a.
T 22	11 29	20 23	1n 7	20 10	2 4	20 46	2 13	24 16	0 45	23 33	0 17	3 56	2 46	23 16	0 9	7 5	1 37	6 3	15 1	18 42	18 51	12 57		n.a.
F 23	11 8	21 2	2 15	19 46	2 7	20 45	2 7	24 14	0 46	23 33	0 17	3 58	2 46	23 16	0 9	7 4	1 37	6 3	15 1	18 42	18 50	12 55		n.a.
S 24	10 47	20 23	3 17	19 22	2 9	20 44	2 2	24 13	0 47	23 33	0 17	4 0	2 46	23 16	0 9	7 3	1 37	6 2	15 1	18 41	18 49	12 53		n.a.
S 25	10 25	18 22	4 8	18 55	2 11	20 42	1 56	24 10	0 47	23 33	0 17	4 1	2 47	23 16	0 9	7 2	1 37	6 2	15 1	18 40	18 48	12 51		n.a.
M26	10 3	15 6	4 44	18 28	2 12	20 39	1 50	24 8	0 48	23 33	0 17	4 3	2 47	23 17	0 9	7 2	1 37	6 1	15 0	18 38	18 47	12 49		n.a.
T 27	9 41	10 48	5 0	17 58	2 13	20 36	1 45	24 5	0 49	23 34	0 17	4 5	2 47	23 17	0 9	7 1	1 37	6 0	15 0	18 35	18 47	12 47		n.a.
W28	9s19	5s47	4n55	17s27	2s14	20s32	1n39	24s 3	0s50	23n34	0n17	4n 7	2n47	23s17	0s 9	7s 0	1s37	6s 0	15s 0	18s33	18s46	12n45		n.a.

Julian Day Number = 1681276.5, Delta T = 03h15m21s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'59, Lahiri = - 5°27'59 Julian Calendar 1 Feb. 110 BCE == Greg. Calendar 29 Jan. 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

MARCH 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 52	7♓13'27	18♓31	20♒36	21♑12	12♑11	19♊26	26°R 2	17♐43	16♓12	19♈58	22°R 6	23♏ 5	11♌22	n.a.	T 1
F 2	10 24 49	8°12'36	3♈21	22°19	22°15	12°56	19°29	25♍58	17°44	16°14	19°59	21♏57	23° 1	11°28	n.a.	F 2
S 3	10 28 45	9°11'43	17°46	24° 4	23°19	13°41	19°31	25°54	17°45	16°17	20° 0	21°50	22°58	11°35	n.a.	S 3
S 4	10 32 42	10°10'48	1♉42	25°51	24°23	14°26	19°34	25°50	17°46	16°19	20° 1	21°46	22°55	11°42	n.a.	S 4
M 5	10 36 38	11° 9'51	15°10	27°38	25°27	15°11	19°37	25°45	17°47	16°21	20° 2	21°45	22°52	11°48	n.a.	M 5
T 6	10 40 35	12° 8'51	28°10	29°28	26°32	15°57	19°40	25°41	17°49	16°23	20° 3	21°D45	22°49	11°55	n.a.	T 6
W 7	10 44 31	13° 7'49	10♊46	1♓18	27°36	16°42	19°44	25°37	17°50	16°26	20° 5	21°R45	22°45	12° 2	n.a.	W 7
T 8	10 48 28	14° 6'44	23° 4	3°10	28°41	17°27	19°47	25°32	17°50	16°28	20° 6	21°45	22°42	12° 9	n.a.	T 8
F 9	10 52 24	15° 5'37	5♋ 8	5° 4	29°46	18°12	19°51	25°28	17°51	16°30	20° 7	21°43	22°39	12°15	n.a.	F 9
S 10	10 56 21	16° 4'28	17° 4	6°59	0♒51	18°57	19°55	25°23	17°52	16°32	20° 8	21°38	22°36	12°22	n.a.	S 10
S 11	11 0 17	17° 3'17	28°55	8°55	1°56	19°42	19°59	25°19	17°53	16°35	20° 9	21°31	22°33	12°29	n.a.	S 11
M12	11 4 14	18° 2'03	10♌46	10°53	3° 2	20°27	20° 3	25°14	17°54	16°37	20°10	21°22	22°30	12°36	n.a.	M12
T 13	11 8 11	19° 0'46	22°40	12°52	4° 7	21°12	20° 8	25°10	17°55	16°39	20°11	21°11	22°26	12°42	n.a.	T 13
W14	11 12 7	19°59'28	4♍38	14°53	5°13	21°57	20°12	25° 5	17°55	16°41	20°13	21° 0	22°23	12°49	n.a.	W14
T 15	11 16 4	20°58'07	16°42	16°54	6°19	22°42	20°17	25° 1	17°56	16°44	20°14	20°48	22°20	12°56	n.a.	T 15
F 16	11 20 0	21°56'45	28°54	18°57	7°25	23°27	20°22	24°56	17°56	16°46	20°15	20°38	22°17	13° 2	n.a.	F 16
S 17	11 23 57	22°55'20	11♎14	21° 1	8°32	24°12	20°27	24°52	17°57	16°48	20°16	20°30	22°14	13° 9	n.a.	S 17
S 18	11 27 53	23°53'54	23°44	23° 6	9°38	24°57	20°32	24°47	17°57	16°51	20°17	20°24	22°10	13°16	n.a.	S 18
M19	11 31 50	24°52'25	6♏24	25°12	10°45	25°42	20°37	24°43	17°58	16°53	20°19	20°21	22° 7	13°23	n.a.	M19
T 20	11 35 46	25°50'55	19°16	27°19	11°52	26°27	20°43	24°38	17°58	16°55	20°20	20°D20	22° 4	13°29	n.a.	T 20
W21	11 39 43	26°49'23	2♐23	29°26	12°59	27°12	20°49	24°33	17°58	16°57	20°21	20°20	22° 1	13°36	n.a.	W21
T 22	11 43 40	27°47'49	15°46	1♈34	14° 6	27°57	20°54	24°29	17°59	16°59	20°22	20°21	21°58	13°43	n.a.	T 22
F 23	11 47 36	28°46'14	29°27	3°41	15°13	28°42	21° 0	24°24	17°59	17° 2	20°24	20°R22	21°55	13°49	n.a.	F 23
S 24	11 51 33	29°44'37	13♑27	5°48	16°20	29°27	21° 7	24°20	17°59	17° 4	20°25	20°21	21°51	13°56	n.a.	S 24
S 25	11 55 29	0♈42'59	27°47	7°55	17°28	0♒12	21°13	24°15	17°59	17° 6	20°26	20°18	21°48	14° 3	n.a.	S 25
M26	11 59 26	1°41'19	12♒23	10° 1	18°35	0°57	21°19	24°11	17°R59	17° 8	20°28	20°14	21°45	14°10	n.a.	M26
T 27	12 3 22	2°39'37	27°11	12° 6	19°43	1°42	21°26	24° 6	17°59	17°11	20°29	20° 7	21°42	14°16	n.a.	T 27
W28	12 7 19	3°37'53	12♓ 4	14° 9	20°51	2°27	21°33	24° 2	17°59	17°13	20°30	20° 0	21°39	14°23	n.a.	W28
T 29	12 11 15	4°36'08	26°53	16°11	21°58	3°12	21°39	23°57	17°59	17°15	20°31	19°53	21°36	14°30	n.a.	T 29
F 30	12 15 12	5°34'20	11♈30	18°10	23° 6	3°57	21°46	23°53	17°59	17°17	20°33	19°47	21°32	14°37	n.a.	F 30
S 31	12 19 8	6♈32'31	25♈48	20♈ 8	24♒15	4♒42	21♊54	23♍48	17♐59	17♓19	20♈34	19♏43	21♏29	14♌43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	8s57	0s28	4n30	16s54	2s14	20s28	1n34	23s59	0s51	23n34	0n17	4n 8	2n47	23s17	0s 9	6s59	1s37	5s59	15s 0	18s30	18s45	12n43			n.a.
F 2	8 35	4n48	3 47	16 20	2 14	20 24	1 28	23 56	0 52	23 34	0 17	4 10	2 47	23 17	0 9	6 58	1 37	5 59	15 0	18 27	18 44	12 41			n.a.
S 3	8 13	9 39	2 50	15 44	2 13	20 18	1 23	23 52	0 53	23 35	0 17	4 12	2 47	23 17	0 9	6 57	1 37	5 58	14 59	18 26	18 43	12 39			n.a.
S 4	7 50	13 50	1 44	15 6	2 11	20 13	1 18	23 49	0 54	23 35	0 18	4 14	2 47	23 17	0 9	6 56	1 37	5 57	14 59	18 25	18 42	12 37			n.a.
M 5	7 28	17 7	0 35	14 27	2 9	20 6	1 12	23 44	0 55	23 35	0 18	4 16	2 48	23 17	0 9	6 55	1 37	5 57	14 59	18 24	18 42	12 35			n.a.
T 6	7 5	19 25	0s34	13 46	2 7	19 59	1 7	23 40	0 56	23 36	0 18	4 18	2 48	23 18	0 9	6 55	1 37	5 56	14 59	18 24	18 41	12 33			n.a.
W 7	6 42	20 40	1 39	13 3	2 4	19 52	1 2	23 35	0 57	23 36	0 18	4 19	2 48	23 18	0 9	6 54	1 37	5 56	14 58	18 24	18 40	12 31			n.a.
T 8	6 19	20 53	2 38	12 19	2 0	19 44	0 57	23 31	0 58	23 36	0 18	4 21	2 48	23 18	0 9	6 53	1 37	5 55	14 58	18 24	18 39	12 29			n.a.
F 9	5 56	20 7	3 29	11 34	1 56	19 35	0 51	23 26	0 59	23 37	0 18	4 23	2 48	23 18	0 9	6 52	1 37	5 54	14 58	18 24	18 38	12 27			n.a.
S 10	5 33	18 28	4 10	10 46	1 52	19 26	0 46	23 20	1 0	23 37	0 18	4 25	2 48	23 18	0 9	6 51	1 37	5 54	14 58	18 23	18 38	12 25			n.a.
S 11	5 10	16 2	4 40	9 57	1 47	19 17	0 41	23 15	1 1	23 37	0 18	4 27	2 48	23 18	0 9	6 50	1 37	5 53	14 58	18 21	18 37	12 23			n.a.
M12	4 47	12 57	4 58	9 7	1 41	19 6	0 36	23 9	1 2	23 38	0 18	4 29	2 48	23 18	0 9	6 49	1 37	5 53	14 57	18 18	18 36	12 21			n.a.
T 13	4 24	9 21	5 3	8 15	1 35	18 56	0 32	23 3	1 3	23 38	0 18	4 31	2 48	23 18	0 9	6 48	1 37	5 52	14 57	18 15	18 35	12 19			n.a.
W14	4 0	5 21	4 55	7 22	1 28	18 45	0 27	22 56	1 3	23 39	0 18	4 32	2 48	23 18	0 9	6 47	1 37	5 51	14 57	18 12	18 34	12 17			n.a.
T 15	3 37	1 7	4 33	6 28	1 21	18 33	0 22	22 50	1 4	23 39	0 18	4 34	2 48	23 18	0 9	6 47	1 37	5 51	14 57	18 9	18 33	12 15			n.a.
F 16	3 14	3s12	3 59	5 32	1 13	18 21	0 17	22 43	1 5	23 39	0 18	4 36	2 48	23 18	0 9	6 46	1 37	5 50	14 57	18 7	18 33	12 13			n.a.
S 17	2 50	7 27	3 13	4 35	1 5	18 8	0 13	22 36	1 6	23 40	0 18	4 38	2 48	23 19	0 9	6 45	1 37	5 50	14 57	18 4	18 32	12 11			n.a.
S 18	2 27	11 26	2 17	3 37	0 56	17 54	0 8	22 29	1 7	23 40	0 18	4 40	2 48	23 19	0 9	6 44	1 37	5 49	14 56	18 3	18 31	12 9			n.a.
M19	2 4	14 58	1 14	2 38	0 47	17 41	0 4	22 21	1 8	23 41	0 19	4 42	2 48	23 19	0 9	6 43	1 37	5 48	14 56	18 2	18 30	12 7			n.a.
T 20	1 40	17 50	0 6	1 39	0 37	17 26	0s 1	22 14	1 9	23 41	0 19	4 44	2 48	23 19	0 9	6 42	1 37	5 48	14 56	18 2	18 29	12 5			n.a.
W21	1 17	19 49	1n 4	0 39	0 27	17 11	0 5	22 6	1 10	23 42	0 19	4 45	2 48	23 19	0 9	6 41	1 37	5 47	14 56	18 2	18 29	12 3			n.a.
T 22	0 53	20 45	2 12	0n22	0 17	16 56	0 9	21 58	1 11	23 42	0 19	4 47	2 48	23 19	0 9	6 40	1 37	5 47	14 56	18 2	18 28	12 1			n.a.
F 23	0 30	20 28	3 14	1 23	0 6	16 40	0 14	21 49	1 12	23 43	0 19	4 49	2 48	23 19	0 9	6 40	1 37	5 46	14 56	18 2	18 27	11 59			n.a.
S 24	0 6	18 56	4 6	2 24	0n 4	16 24	0 18	21 41	1 13	23 43	0 19	4 51	2 48	23 19	0 9	6 39	1 37	5 45	14 55	18 2	18 26	11 57			n.a.
S 25	0n17	16 12	4 44	3 24	0 15	16 7	0 22	21 32	1 14	23 44	0 19	4 53	2 48	23 19	0 9	6 38	1 37	5 45	14 55	18 1	18 25	11 55			n.a.
M26	0 41	12 24	5 5	4 25	0 26	15 50	0 26	21 23	1 15	23 44	0 19	4 55	2 48	23 19	0 9	6 37	1 37	5 44	14 55	18 0	18 24	11 53			n.a.
T 27	1 4	7 49	5 5	5 24	0 37	15 32	0 30	21 14	1 16	23 45	0 19	4 56	2 48	23 19	0 10	6 36	1 37	5 44	14 55	17 58	18 24	11 51			n.a.
W28	1 28	2 44	4 45	6 23	0 48	15 14	0 33	21 4	1 17	23 45	0 19	4 58	2 48	23 19	0 10	6 35	1 37	5 43	14 55	17 56	18 23	11 49			n.a.
T 29	1 51	2n30	4 6	7 20	0 59	14 55	0 37	20 55	1 18	23 46	0 19	5 0	2 48	23 19	0 10	6 34	1 37	5 42	14 55	17 54	18 22	11 47			n.a.
F 30	2 14	7 32	3 11	8 16	1 10	14 36	0 41	20 45	1 19	23 46	0 19	5 2	2 48	23 19	0 10	6 34	1 37	5 42	14 55	17 53	18 21	11 45			n.a.
S 31	2n38	12n 1	2n 6	9n11	1n20	14s17	0s44	20s35	1s19	23n47	0n19	5n 3	2n48	23s19	0s10	6s33	1s37	5s41	14s55	17s52	18s20	11n43			n.a.

Julian Day Number = 1681304.5, Delta T = 03h15m20s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'55, Lahiri = - 5°27'55 Julian Calendar 1 March 110 BCE == Greg. Calendar 26 Feb. 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

APRIL 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 23 5	7♈30'40	9♉43	22♈ 2	25♒23	5♒27	22♊ 1	23°R44	17°R58	17♓21	20♈35	19°R41	21♏26	14♌50	n.a.	S 1
M 2	12 27 2	8°28'47	23°12	23°54	26°31	6°12	22° 8	23♍40	17♐58	17°24	20°37	19°D41	21°23	14°57	n.a.	M 2
T 3	12 30 58	9°26'53	6♊15	25°43	27°39	6°57	22°16	23°35	17°58	17°26	20°38	19♏41	21°20	15° 3	n.a.	T 3
W 4	12 34 55	10°24'56	18°56	27°28	28°48	7°42	22°23	23°31	17°57	17°28	20°39	19°43	21°16	15°10	n.a.	W 4
T 5	12 38 51	11°22'57	1♋18	29°10	29°56	8°27	22°31	23°27	17°57	17°30	20°41	19°44	21°13	15°17	n.a.	T 5
F 6	12 42 48	12°20'56	13°25	0♉49	1♓ 5	9°11	22°39	23°23	17°56	17°32	20°42	19°R45	21°10	15°24	n.a.	F 6
S 7	12 46 44	13°18'54	25°23	2°24	2°14	9°56	22°47	23°19	17°56	17°34	20°43	19°44	21° 7	15°30	n.a.	S 7
S 8	12 50 41	14°16'49	7♌16	3°55	3°23	10°41	22°55	23°14	17°55	17°36	20°45	19°42	21° 4	15°37	n.a.	S 8
M 9	12 54 37	15°14'42	19° 8	5°22	4°32	11°26	23° 4	23°10	17°54	17°38	20°46	19°38	21° 1	15°44	n.a.	M 9
T 10	12 58 34	16°12'34	1♍ 4	6°45	5°41	12°10	23°12	23° 6	17°54	17°40	20°48	19°33	20°57	15°50	n.a.	T 10
W11	13 2 31	17°10'24	13° 7	8° 5	6°50	12°55	23°21	23° 2	17°53	17°42	20°49	19°27	20°54	15°57	n.a.	W11
T 12	13 6 27	18° 8'12	25°19	9°20	7°59	13°40	23°29	22°58	17°52	17°44	20°50	19°22	20°51	16° 4	n.a.	T 12
F 13	13 10 24	19° 5'58	7♎41	10°31	9° 8	14°24	23°38	22°55	17°51	17°46	20°52	19°17	20°48	16°11	n.a.	F 13
S 14	13 14 20	20° 3'43	20°16	11°38	10°17	15° 9	23°47	22°51	17°50	17°48	20°53	19°13	20°45	16°17	n.a.	S 14
S 15	13 18 17	21° 1'26	3♏ 3	12°41	11°27	15°53	23°56	22°47	17°50	17°50	20°54	19°11	20°41	16°24	n.a.	S 15
M16	13 22 13	21°59'08	16° 4	13°40	12°36	16°38	24° 5	22°43	17°49	17°52	20°56	19°D10	20°38	16°31	n.a.	M16
T 17	13 26 10	22°56'48	29°16	14°34	13°45	17°22	24°14	22°40	17°48	17°54	20°57	19°10	20°35	16°38	n.a.	T 17
W18	13 30 6	23°54'28	12♐42	15°24	14°55	18° 7	24°23	22°36	17°47	17°56	20°58	19°11	20°32	16°44	n.a.	W18
T 19	13 34 3	24°52'06	26°20	16° 9	16° 5	18°51	24°33	22°33	17°45	17°58	21° 0	19°13	20°29	16°51	n.a.	T 19
F 20	13 38 0	25°49'43	10♑10	16°50	17°14	19°36	24°42	22°29	17°44	18° 0	21° 1	19°14	20°26	16°58	n.a.	F 20
S 21	13 41 56	26°47'19	24°12	17°26	18°24	20°20	24°52	22°26	17°43	18° 2	21° 2	19°R14	20°22	17° 4	n.a.	S 21
S 22	13 45 53	27°44'54	8♒24	17°57	19°34	21° 4	25° 2	22°22	17°42	18° 4	21° 4	19°14	20°19	17°11	n.a.	S 22
M23	13 49 49	28°42'28	22°45	18°24	20°44	21°49	25°11	22°19	17°41	18° 6	21° 5	19°13	20°16	17°18	n.a.	M23
T 24	13 53 46	29°40'01	7♓10	18°46	21°54	22°33	25°21	22°16	17°39	18° 7	21° 7	19°11	20°13	17°25	n.a.	T 24
W25	13 57 42	0♉37'33	21°37	19° 3	23° 4	23°17	25°31	22°13	17°38	18° 9	21° 8	19° 9	20°10	17°31	n.a.	W25
T 26	14 1 39	1°35'04	5♈59	19°16	24°14	24° 1	25°41	22°10	17°36	18°11	21° 9	19° 6	20° 7	17°38	n.a.	T 26
F 27	14 5 35	2°32'34	20°11	19°24	25°24	24°45	25°52	22° 7	17°35	18°13	21°11	19° 4	20° 3	17°45	n.a.	F 27
S 28	14 9 32	3°30'02	4♉10	19°R27	26°34	25°30	26° 2	22° 4	17°34	18°14	21°12	19° 3	20° 0	17°51	n.a.	S 28
S 29	14 13 28	4°27'30	17°50	19°25	27°45	26°14	26°12	22° 1	17°32	18°16	21°13	19°D 3	19°57	17°58	n.a.	S 29
M30	14 17 25	5♉24'57	1♊10	19♉19	28♓55	26♒57	26♊23	21♍59	17♐30	18♓18	21♈15	19♏ 3	19♏54	18♌ 5	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n 1	15n44	0n54	10n 4	1n30	13s57	0s48	20s25	1s20	23n47	0n19	5n 5	2n48	23s19	0s10	6s32	1s37	5s41	14s55	17s51	18s19	11n41		n.a.
M 2	3 24	18 28	0s19	10 54	1 39	13 37	0 51	20 15	1 21	23 48	0 19	5 7	2 48	23 19	0 10	6 31	1 37	5 40	14 54	17 51	18 18	11 39		n.a.
T 3	3 47	20 8	1 29	11 43	1 48	13 16	0 54	20 4	1 22	23 48	0 19	5 8	2 48	23 19	0 10	6 30	1 37	5 40	14 54	17 51	18 18	11 37		n.a.
W 4	4 10	20 43	2 32	12 30	1 56	12 55	0 58	19 53	1 23	23 49	0 19	5 10	2 48	23 19	0 10	6 29	1 37	5 39	14 54	17 52	18 17	11 35		n.a.
T 5	4 33	20 15	3 27	13 14	2 4	12 34	1 1	19 42	1 24	23 49	0 20	5 12	2 48	23 19	0 10	6 29	1 37	5 38	14 54	17 52	18 16	11 33		n.a.
F 6	4 56	18 52	4 11	13 56	2 11	12 12	1 4	19 31	1 25	23 50	0 20	5 13	2 48	23 19	0 10	6 28	1 37	5 38	14 54	17 52	18 15	11 31		n.a.
S 7	5 19	16 39	4 44	14 35	2 18	11 50	1 7	19 20	1 26	23 50	0 20	5 15	2 48	23 19	0 10	6 27	1 37	5 37	14 54	17 52	18 14	11 28		n.a.
S 8	5 41	13 46	5 4	15 12	2 23	11 28	1 10	19 9	1 27	23 51	0 20	5 16	2 48	23 19	0 10	6 26	1 37	5 37	14 54	17 51	18 13	11 26		n.a.
M 9	6 4	10 19	5 11	15 47	2 28	11 5	1 12	18 57	1 28	23 51	0 20	5 18	2 48	23 19	0 10	6 25	1 37	5 36	14 54	17 50	18 13	11 24		n.a.
T 10	6 27	6 28	5 5	16 19	2 32	10 42	1 15	18 45	1 29	23 52	0 20	5 19	2 47	23 19	0 10	6 25	1 37	5 36	14 54	17 49	18 12	11 22		n.a.
W11	6 49	2 19	4 45	16 48	2 35	10 18	1 18	18 33	1 29	23 52	0 20	5 21	2 47	23 19	0 10	6 24	1 37	5 35	14 54	17 47	18 11	11 20		n.a.
T 12	7 11	1s58	4 13	17 15	2 38	9 54	1 20	18 21	1 30	23 53	0 20	5 22	2 47	23 19	0 10	6 23	1 37	5 35	14 54	17 46	18 10	11 18		n.a.
F 13	7 34	6 15	3 27	17 39	2 39	9 30	1 23	18 9	1 31	23 53	0 20	5 24	2 47	23 18	0 10	6 22	1 37	5 34	14 54	17 44	18 9	11 16		n.a.
S 14	7 56	10 20	2 32	18 1	2 40	9 6	1 25	17 56	1 32	23 54	0 20	5 25	2 47	23 18	0 10	6 22	1 37	5 34	14 54	17 43	18 8	11 14		n.a.
S 15	8 18	14 2	1 27	18 20	2 39	8 41	1 27	17 44	1 33	23 54	0 20	5 27	2 47	23 18	0 10	6 21	1 37	5 33	14 54	17 43	18 7	11 12		n.a.
M16	8 39	17 6	0 17	18 37	2 38	8 17	1 29	17 31	1 34	23 55	0 20	5 28	2 47	23 18	0 10	6 20	1 37	5 33	14 54	17 43	18 7	11 10		n.a.
T 17	9 1	19 19	0n55	18 52	2 36	7 51	1 31	17 18	1 35	23 55	0 20	5 29	2 47	23 18	0 10	6 19	1 37	5 32	14 54	17 43	18 6	11 8		n.a.
W18	9 23	20 30	2 6	19 3	2 32	7 26	1 33	17 5	1 36	23 55	0 20	5 31	2 46	23 18	0 10	6 19	1 37	5 31	14 54	17 43	18 5	11 6		n.a.
T 19	9 44	20 29	3 10	19 13	2 28	7 0	1 35	16 52	1 37	23 56	0 20	5 32	2 46	23 18	0 10	6 18	1 37	5 31	14 54	17 43	18 4	11 4		n.a.
F 20	10 5	19 15	4 5	19 20	2 23	6 35	1 37	16 39	1 37	23 56	0 20	5 33	2 46	23 18	0 10	6 17	1 37	5 30	14 54	17 44	18 3	11 2		n.a.
S 21	10 26	16 50	4 45	19 24	2 16	6 9	1 38	16 25	1 38	23 57	0 20	5 34	2 46	23 18	0 10	6 17	1 38	5 30	14 54	17 44	18 2	11 0		n.a.
S 22	10 47	13 23	5 9	19 26	2 9	5 42	1 40	16 12	1 39	23 57	0 21	5 36	2 46	23 18	0 10	6 16	1 38	5 30	14 54	17 44	18 2	10 58		n.a.
M23	11 8	9 8	5 14	19 26	2 1	5 16	1 41	15 58	1 40	23 58	0 21	5 37	2 46	23 18	0 10	6 15	1 38	5 29	14 54	17 43	18 1	10 56		n.a.
T 24	11 29	4 21	4 59	19 23	1 52	4 49	1 43	15 44	1 41	23 58	0 21	5 38	2 46	23 18	0 10	6 14	1 38	5 29	14 54	17 43	18 0	10 54		n.a.
W25	11 49	0n42	4 26	19 18	1 41	4 22	1 44	15 30	1 42	23 59	0 21	5 39	2 45	23 17	0 10	6 14	1 38	5 28	14 54	17 42	17 59	10 52		n.a.
T 26	12 9	5 42	3 36	19 11	1 30	3 55	1 45	15 16	1 42	23 59	0 21	5 40	2 45	23 17	0 10	6 13	1 38	5 28	14 54	17 42	17 58	10 49		n.a.
F 27	12 29	10 20	2 33	19 1	1 18	3 28	1 46	15 2	1 43	23 59	0 21	5 41	2 45	23 17	0 10	6 12	1 38	5 27	14 54	17 41	17 57	10 47		n.a.
S 28	12 49	14 19	1 21	18 50	1 5	3 1	1 48	14 48	1 44	24 0	0 21	5 42	2 45	23 17	0 10	6 12	1 38	5 27	14 54	17 41	17 56	10 45		n.a.
S 29	13 9	17 27	0 7	18 36	0 51	2 34	1 48	14 33	1 45	24 0	0 21	5 43	2 45	23 17	0 10	6 11	1 38	5 26	14 54	17 41	17 55	10 43		n.a.
M30	13n28	19n32	1s 7	18n20	0n37	2s 6	1s49	14s19	1s46	24n 0	0n21	5n44	2n45	23s17	0s10	6s11	1s38	5s26	14s54	17s41	17s55	10n41		n.a.

Julian Day Number = 1681335.5, Delta T = 03h15m19s
Ecliptic obliquity = 23°42'25, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'51, Lahiri = - 5°27'51 Julian Calendar 1 Apr. 110 BCE == Greg. Calendar 29 March 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

MAY 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 21 22	6♉22'22	14♊10	19°R 9	0♈ 5	27♒41	26♊33	21°R56	17°R29	18♓19	21♈16	19♏ 4	19♏51	18♌12	n.a.	T 1
W 2	14 25 18	7°19'46	26°50	18♉54	1°16	28°25	26°44	21♍53	17♐27	18°21	21°17	19° 5	19°47	18°18	n.a.	W 2
T 3	14 29 15	8°17'09	9♋13	18°36	2°26	29° 9	26°55	21°51	17°26	18°23	21°18	19° 6	19°44	18°25	n.a.	T 3
F 4	14 33 11	9°14'31	21°23	18°14	3°37	29°53	27° 5	21°49	17°24	18°24	21°20	19° 7	19°41	18°32	n.a.	F 4
S 5	14 37 8	10°11'52	3♌22	17°49	4°47	0♓36	27°16	21°46	17°22	18°26	21°21	19° 7	19°38	18°39	n.a.	S 5
S 6	14 41 4	11° 9'11	15°17	17°22	5°58	1°20	27°27	21°44	17°20	18°27	21°22	19°R 7	19°35	18°45	n.a.	S 6
M 7	14 45 1	12° 6'29	27°10	16°52	7° 8	2° 4	27°38	21°42	17°19	18°29	21°24	19° 7	19°32	18°52	n.a.	M 7
T 8	14 48 58	13° 3'46	9♍ 8	16°20	8°19	2°47	27°49	21°40	17°17	18°30	21°25	19° 6	19°28	18°59	n.a.	T 8
W 9	14 52 54	14° 1'02	21°13	15°47	9°30	3°30	28° 0	21°38	17°15	18°32	21°26	19° 6	19°25	19° 5	n.a.	W 9
T 10	14 56 51	14°58'17	3♎30	15°14	10°40	4°14	28°12	21°36	17°13	18°33	21°27	19° 5	19°22	19°12	n.a.	T 10
F 11	15 0 47	15°55'31	16° 2	14°40	11°51	4°57	28°23	21°35	17°11	18°35	21°29	19° 5	19°19	19°19	n.a.	F 11
S 12	15 4 44	16°52'44	28°50	14° 7	13° 2	5°40	28°34	21°33	17° 9	18°36	21°30	19° 4	19°16	19°26	n.a.	S 12
S 13	15 8 40	17°49'57	11♏54	13°35	14°13	6°23	28°46	21°31	17° 7	18°38	21°31	19° 4	19°13	19°32	n.a.	S 13
M14	15 12 37	18°47'09	25°16	13° 4	15°24	7° 7	28°57	21°30	17° 5	18°39	21°32	19° 4	19° 9	19°39	n.a.	M14
T 15	15 16 33	19°44'20	8♐54	12°36	16°35	7°50	29° 9	21°29	17° 3	18°40	21°34	19° 4	19° 6	19°46	n.a.	T 15
W16	15 20 30	20°41'31	22°46	12°11	17°46	8°32	29°20	21°27	17° 1	18°42	21°35	19° 4	19° 3	19°53	n.a.	W16
T 17	15 24 27	21°38'41	6♑48	11°48	18°57	9°15	29°32	21°26	16°59	18°43	21°36	19° 4	19° 0	19°59	n.a.	T 17
F 18	15 28 23	22°35'51	20°58	11°29	20° 8	9°58	29°44	21°25	16°57	18°44	21°37	19° 4	18°57	20° 6	n.a.	F 18
S 19	15 32 20	23°33'01	5♒12	11°13	21°19	10°41	29°56	21°24	16°55	18°45	21°38	19° 3	18°53	20°13	n.a.	S 19
S 20	15 36 16	24°30'10	19°28	11° 2	22°31	11°24	0♋ 8	21°23	16°52	18°46	21°40	19°D 3	18°50	20°19	n.a.	S 20
M21	15 40 13	25°27'20	3♓42	10°55	23°42	12° 6	0°19	21°22	16°50	18°48	21°41	19° 3	18°47	20°26	n.a.	M21
T 22	15 44 9	26°24'29	17°52	10°D52	24°53	12°49	0°31	21°22	16°48	18°49	21°42	19° 4	18°44	20°33	n.a.	T 22
W23	15 48 6	27°21'38	1♈56	10°54	26° 5	13°31	0°43	21°21	16°46	18°50	21°43	19° 4	18°41	20°40	n.a.	W23
T 24	15 52 2	28°18'47	15°52	11° 0	27°16	14°13	0°56	21°20	16°44	18°51	21°44	19° 5	18°38	20°46	n.a.	T 24
F 25	15 55 59	29°15'56	29°37	11°11	28°27	14°56	1° 8	21°20	16°41	18°52	21°45	19° 6	18°34	20°53	n.a.	F 25
S 26	15 59 56	0♊13'05	13♉ 9	11°27	29°39	15°38	1°20	21°20	16°39	18°53	21°46	19°R 6	18°31	21° 0	n.a.	S 26
S 27	16 3 52	1°10'14	26°28	11°48	0♉50	16°20	1°32	21°19	16°37	18°54	21°48	19° 6	18°28	21° 7	n.a.	S 27
M28	16 7 49	2° 7'22	9♊31	12°13	2° 2	17° 2	1°44	21°19	16°34	18°55	21°49	19° 5	18°25	21°13	n.a.	M28
T 29	16 11 45	3° 4'31	22°19	12°43	3°14	17°43	1°57	21°D19	16°32	18°56	21°50	19° 4	18°22	21°20	n.a.	T 29
W30	16 15 42	4° 1'39	4♋53	13°18	4°25	18°25	2° 9	21°19	16°30	18°57	21°51	19° 2	18°18	21°27	n.a.	W30
T 31	16 19 38	4♊58'47	17♋12	13♉57	5♉37	19♓ 7	2♋22	21♍20	16♐27	18♓57	21♈52	19♏ 0	18♏15	21♌33	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	13n48	20n32	2s15	18n 3	0n21	1s39	1s50	14s 4	1s47	24n 1	0n21	5n45	2n44	23s17	0s10	6s10	1s38	5s25	14s54	17s41	17s54	10n39			n.a.
W 2	14 7	20 26	3 14	17 43	0 5	1 11	1 51	13 50	1 47	24 1	0 21	5 46	2 44	23 16	0 10	6 9	1 38	5 25	14 54	17 41	17 53	10 37			n.a.
T 3	14 25	19 20	4 3	17 22	0s11	0 43	1 51	13 35	1 48	24 1	0 21	5 46	2 44	23 16	0 10	6 9	1 38	5 25	14 54	17 41	17 52	10 35			n.a.
F 4	14 44	17 22	4 40	17 0	0 28	0 15	1 52	13 20	1 49	24 2	0 21	5 47	2 44	23 16	0 10	6 8	1 38	5 24	14 54	17 42	17 51	10 33			n.a.
S 5	15 2	14 41	5 5	16 37	0 45	0n13	1 52	13 5	1 50	24 2	0 21	5 48	2 44	23 16	0 10	6 8	1 38	5 24	14 54	17 42	17 50	10 31			n.a.
S 6	15 21	11 24	5 16	16 13	1 2	0 40	1 53	12 50	1 50	24 2	0 21	5 49	2 43	23 16	0 10	6 7	1 38	5 23	14 54	17 42	17 49	10 29			n.a.
M 7	15 38	7 41	5 14	15 48	1 19	1 8	1 53	12 35	1 51	24 3	0 21	5 49	2 43	23 16	0 10	6 6	1 38	5 23	14 54	17 42	17 49	10 27			n.a.
T 8	15 56	3 38	4 58	15 22	1 36	1 36	1 53	12 20	1 52	24 3	0 21	5 50	2 43	23 16	0 10	6 6	1 38	5 23	14 54	17 42	17 48	10 25			n.a.
W 9	16 13	0s35	4 28	14 57	1 53	2 5	1 53	12 5	1 53	24 3	0 22	5 50	2 43	23 15	0 10	6 5	1 38	5 22	14 55	17 41	17 47	10 23			n.a.
T 10	16 30	4 52	3 47	14 32	2 9	2 33	1 53	11 49	1 53	24 3	0 22	5 51	2 42	23 15	0 10	6 5	1 38	5 22	14 55	17 41	17 46	10 21			n.a.
F 11	16 47	9 2	2 53	14 7	2 24	3 1	1 53	11 34	1 54	24 3	0 22	5 51	2 42	23 15	0 10	6 4	1 38	5 21	14 55	17 41	17 45	10 18			n.a.
S 12	17 4	12 53	1 50	13 43	2 39	3 29	1 53	11 19	1 55	24 4	0 22	5 52	2 42	23 15	0 10	6 4	1 38	5 21	14 55	17 41	17 44	10 16			n.a.
S 13	17 20	16 12	0 40	13 21	2 53	3 57	1 52	11 3	1 56	24 4	0 22	5 52	2 42	23 15	0 10	6 3	1 39	5 21	14 55	17 41	17 43	10 14			n.a.
M14	17 36	18 44	0n34	13 0	3 5	4 25	1 52	10 48	1 56	24 4	0 22	5 53	2 42	23 15	0 10	6 3	1 39	5 20	14 55	17 41	17 42	10 12			n.a.
T 15	17 52	20 15	1 48	12 40	3 17	4 52	1 52	10 32	1 57	24 4	0 22	5 53	2 41	23 14	0 10	6 2	1 39	5 20	14 55	17 41	17 42	10 10			n.a.
W16	18 7	20 35	2 56	12 22	3 27	5 20	1 51	10 16	1 58	24 4	0 22	5 53	2 41	23 14	0 10	6 2	1 39	5 20	14 55	17 41	17 41	10 8			n.a.
T 17	18 23	19 37	3 55	12 7	3 37	5 48	1 50	10 1	1 58	24 4	0 22	5 54	2 41	23 14	0 10	6 1	1 39	5 19	14 55	17 41	17 40	10 6			n.a.
F 18	18 38	17 27	4 40	11 53	3 45	6 16	1 50	9 45	1 59	24 5	0 22	5 54	2 41	23 14	0 10	6 1	1 39	5 19	14 56	17 41	17 39	10 4			n.a.
S 19	18 52	14 12	5 8	11 42	3 51	6 43	1 49	9 29	2 0	24 5	0 22	5 54	2 40	23 14	0 10	6 1	1 39	5 19	14 56	17 41	17 38	10 2			n.a.
S 20	19 6	10 8	5 17	11 34	3 56	7 11	1 48	9 13	2 0	24 5	0 22	5 54	2 40	23 13	0 10	6 0	1 39	5 18	14 56	17 41	17 37	10 0			n.a.
M21	19 20	5 30	5 7	11 28	4 1	7 38	1 47	8 58	2 1	24 5	0 22	5 54	2 40	23 13	0 10	6 0	1 39	5 18	14 56	17 41	17 36	9 58			n.a.
T 22	19 34	0 35	4 38	11 24	4 3	8 6	1 46	8 42	2 2	24 5	0 22	5 54	2 40	23 13	0 10	5 59	1 39	5 18	14 56	17 41	17 35	9 56			n.a.
W23	19 47	4n20	3 52	11 23	4 5	8 33	1 45	8 26	2 2	24 5	0 22	5 54	2 39	23 13	0 10	5 59	1 39	5 18	14 56	17 41	17 34	9 53			n.a.
T 24	20 0	8 59	2 54	11 25	4 5	9 0	1 44	8 10	2 3	24 5	0 23	5 54	2 39	23 13	0 10	5 59	1 39	5 17	14 56	17 41	17 34	9 51			n.a.
F 25	20 13	13 6	1 46	11 29	4 4	9 26	1 43	7 54	2 4	24 5	0 23	5 54	2 39	23 12	0 10	5 58	1 39	5 17	14 57	17 41	17 33	9 49			n.a.
S 26	20 25	16 29	0 33	11 36	4 2	9 53	1 42	7 38	2 4	24 5	0 23	5 54	2 39	23 12	0 10	5 58	1 39	5 17	14 57	17 42	17 32	9 47			n.a.
S 27	20 37	18 55	0s41	11 45	4 0	10 20	1 41	7 22	2 5	24 5	0 23	5 54	2 39	23 12	0 10	5 58	1 39	5 17	14 57	17 42	17 31	9 45			n.a.
M28	20 49	20 18	1 51	11 56	3 56	10 46	1 39	7 6	2 5	24 4	0 23	5 54	2 38	23 12	0 10	5 57	1 39	5 16	14 57	17 41	17 30	9 43			n.a.
T 29	21 0	20 36	2 53	12 10	3 51	11 12	1 38	6 50	2 6	24 4	0 23	5 54	2 38	23 11	0 10	5 57	1 39	5 16	14 57	17 41	17 29	9 41			n.a.
W30	21 11	19 51	3 47	12 26	3 45	11 38	1 36	6 34	2 7	24 4	0 23	5 53	2 38	23 11	0 10	5 57	1 39	5 16	14 57	17 40	17 28	9 39			n.a.
T 31	21n22	18n 9	4s28	12n44	3s38	12n 3	1s35	6s18	2s 7	24n 4	0n23	5n53	2n38	23s11	0s10	5s56	1s40	5s16	14s58	17s40	17s27	9n37			n.a.

Julian Day Number = 1681365.5, Delta T = 03h15m18s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'47, Lahiri = - 5°27'47 Julian Calendar 1 May 110 BCE == Greg. Calendar 28 Apr. 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

JUNE 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 23 35	5♊55'55	29♋20	14♉41	6♉49	19♓48	2♋34	21♍20	16°R25	18♓58	21♈53	18°R58	18♏12	21♌40	n.a.	F 1
S 2	16 27 31	6°53'02	11♌19	15°29	8° 0	20°30	2°47	21°20	16♐23	18°59	21°54	18♏55	18° 9	21°47	n.a.	S 2
S 3	16 31 28	7°50'09	23°13	16°22	9°12	21°11	2°59	21°21	16°20	19° 0	21°55	18°54	18° 6	21°54	n.a.	S 3
M 4	16 35 25	8°47'16	5♍ 6	17°19	10°24	21°52	3°12	21°21	16°18	19° 1	21°56	18°D53	18° 3	22° 0	n.a.	M 4
T 5	16 39 21	9°44'23	17° 3	18°20	11°36	22°33	3°24	21°22	16°15	19° 1	21°57	18°53	17°59	22° 7	n.a.	T 5
W 6	16 43 18	10°41'30	29° 9	19°25	12°48	23°14	3°37	21°23	16°13	19° 2	21°58	18°54	17°56	22°14	n.a.	W 6
T 7	16 47 14	11°38'36	11♎27	20°35	14° 0	23°55	3°50	21°24	16°11	19° 3	21°59	18°56	17°53	22°20	n.a.	T 7
F 8	16 51 11	12°35'42	24° 2	21°49	15°12	24°36	4° 3	21°25	16° 8	19° 3	22° 0	18°57	17°50	22°27	n.a.	F 8
S 9	16 55 7	13°32'49	6♏57	23° 7	16°24	25°16	4°15	21°26	16° 6	19° 4	22° 1	18°59	17°47	22°34	n.a.	S 9
S 10	16 59 4	14°29'55	20°14	24°28	17°36	25°57	4°28	21°27	16° 3	19° 4	22° 2	18°R59	17°44	22°41	n.a.	S 10
M11	17 3 0	15°27'02	3♐54	25°54	18°48	26°37	4°41	21°28	16° 1	19° 5	22° 2	18°58	17°40	22°47	n.a.	M11
T 12	17 6 57	16°24'09	17°55	27°24	20° 0	27°18	4°54	21°29	15°58	19° 5	22° 3	18°56	17°37	22°54	n.a.	T 12
W13	17 10 54	17°21'16	2♑13	28°57	21°12	27°58	5° 7	21°31	15°56	19° 6	22° 4	18°53	17°34	23° 1	n.a.	W13
T 14	17 14 50	18°18'24	16°43	0♒35	22°24	28°38	5°20	21°32	15°54	19° 6	22° 5	18°49	17°31	23° 8	n.a.	T 14
F 15	17 18 47	19°15'32	1♓19	2°15	23°37	29°18	5°33	21°34	15°51	19° 6	22° 6	18°45	17°28	23°14	n.a.	F 15
S 16	17 22 43	20°12'41	15°55	4° 0	24°49	29°57	5°45	21°36	15°49	19° 7	22° 7	18°41	17°24	23°21	n.a.	S 16
S 17	17 26 40	21° 9'51	0♈24	5°47	26° 1	0♈37	5°58	21°38	15°46	19° 7	22° 7	18°38	17°21	23°28	n.a.	S 17
M18	17 30 36	22° 7'01	14°42	7°38	27°14	1°16	6°11	21°39	15°44	19° 7	22° 8	18°37	17°18	23°34	n.a.	M18
T 19	17 34 33	23° 4'12	28°47	9°31	28°26	1°56	6°25	21°41	15°42	19° 8	22° 9	18°D37	17°15	23°41	n.a.	T 19
W20	17 38 30	24° 1'24	12♈37	11°28	29°39	2°35	6°38	21°44	15°39	19° 8	22°10	18°38	17°12	23°48	n.a.	W20
T 21	17 42 26	24°58'37	26°13	13°26	0♊51	3°14	6°51	21°46	15°37	19° 8	22°10	18°39	17° 9	23°55	n.a.	T 21
F 22	17 46 23	25°55'51	9♉35	15°27	2° 4	3°53	7° 4	21°48	15°34	19° 8	22°11	18°40	17° 5	24° 1	n.a.	F 22
S 23	17 50 19	26°53'06	22°44	17°29	3°16	4°31	7°17	21°50	15°32	19° 8	22°12	18°R41	17° 2	24° 8	n.a.	S 23
S 24	17 54 16	27°50'22	5♊40	19°33	4°29	5°10	7°30	21°53	15°30	19° 8	22°12	18°39	16°59	24°15	n.a.	S 24
M25	17 58 12	28°47'38	18°24	21°38	5°42	5°48	7°43	21°55	15°27	19° 8	22°13	18°36	16°56	24°22	n.a.	M25
T 26	18 2 9	29°44'56	0♋56	23°44	6°54	6°27	7°56	21°58	15°25	19°R 8	22°14	18°31	16°53	24°28	n.a.	T 26
W27	18 6 5	0♋42'14	13°18	25°51	8° 7	7° 5	8° 9	22° 1	15°23	19° 8	22°14	18°24	16°50	24°35	n.a.	W27
T 28	18 10 2	1°39'33	25°30	27°58	9°20	7°42	8°23	22° 4	15°20	19° 8	22°15	18°17	16°46	24°42	n.a.	T 28
F 29	18 13 59	2°36'52	7♌33	0♋ 4	10°33	8°20	8°36	22° 7	15°18	19° 8	22°15	18° 9	16°43	24°48	n.a.	F 29
S 30	18 17 55	3♋34'12	19♌30	2♋11	11♊46	8♈58	8♋49	22♍10	15♐16	19♓ 8	22♈16	18♏ 1	16♏40	24♌55	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n32	15n41	4s57	13n 4	3s31	12n28	1s33	6s 2	2s 8	24n 4	0n23	5n53	2n37	23s11	0s11	5s56	1s40	5s15	14s58	17s39	17s26	9n35		n.a.
S 2	21 42	12 34	5 12	13 25	3 23	12 54	1 32	5 46	2 8	24 4	0 23	5 52	2 37	23 10	0 11	5 56	1 40	5 15	14 58	17 39	17 26	9 33		n.a.
S 3	21 52	8 59	5 14	13 49	3 14	13 18	1 30	5 30	2 9	24 4	0 23	5 52	2 37	23 10	0 11	5 56	1 40	5 15	14 58	17 38	17 25	9 30		n.a.
M 4	22 1	5 3	5 3	14 14	3 5	13 43	1 28	5 14	2 9	24 3	0 23	5 51	2 37	23 10	0 11	5 55	1 40	5 15	14 58	17 38	17 24	9 28		n.a.
T 5	22 10	0 54	4 38	14 41	2 55	14 7	1 26	4 58	2 10	24 3	0 23	5 51	2 36	23 10	0 11	5 55	1 40	5 15	14 59	17 38	17 23	9 26		n.a.
W 6	22 18	3s20	4 1	15 9	2 44	14 31	1 24	4 42	2 10	24 3	0 23	5 50	2 36	23 10	0 11	5 55	1 40	5 15	14 59	17 38	17 22	9 24		n.a.
T 7	22 26	7 31	3 12	15 38	2 34	14 54	1 22	4 26	2 11	24 3	0 24	5 50	2 36	23 9	0 11	5 55	1 40	5 14	14 59	17 39	17 21	9 22		n.a.
F 8	22 34	11 29	2 13	16 8	2 22	15 18	1 20	4 11	2 11	24 2	0 24	5 49	2 36	23 9	0 11	5 55	1 40	5 14	14 59	17 39	17 20	9 20		n.a.
S 9	22 41	15 1	1 6	16 39	2 11	15 40	1 18	3 55	2 12	24 2	0 24	5 49	2 35	23 9	0 11	5 54	1 40	5 14	14 59	17 39	17 19	9 18		n.a.
S 10	22 48	17 53	0n 7	17 11	1 59	16 3	1 16	3 39	2 12	24 2	0 24	5 48	2 35	23 9	0 11	5 54	1 40	5 14	15 0	17 40	17 18	9 16		n.a.
M11	22 54	19 50	1 21	17 44	1 46	16 25	1 14	3 23	2 13	24 1	0 24	5 47	2 35	23 8	0 11	5 54	1 40	5 14	15 0	17 39	17 18	9 14		n.a.
T 12	23 0	20 38	2 32	18 16	1 34	16 47	1 12	3 7	2 13	24 1	0 24	5 46	2 35	23 8	0 11	5 54	1 40	5 14	15 0	17 39	17 17	9 12		n.a.
W13	23 6	20 6	3 35	18 50	1 21	17 8	1 10	2 52	2 14	24 0	0 24	5 46	2 34	23 8	0 11	5 54	1 40	5 14	15 0	17 38	17 16	9 10		n.a.
T 14	23 11	18 16	4 25	19 23	1 9	17 29	1 8	2 36	2 14	24 0	0 24	5 45	2 34	23 8	0 11	5 54	1 40	5 14	15 0	17 37	17 15	9 7		n.a.
F 15	23 16	15 15	4 58	19 56	0 56	17 50	1 5	2 20	2 15	23 59	0 24	5 44	2 34	23 7	0 11	5 54	1 40	5 14	15 1	17 36	17 14	9 5		n.a.
S 16	23 20	11 17	5 12	20 28	0 43	18 10	1 3	2 5	2 15	23 59	0 24	5 43	2 34	23 7	0 11	5 54	1 41	5 13	15 1	17 35	17 13	9 3		n.a.
S 17	23 25	6 42	5 6	21 0	0 31	18 29	1 1	1 49	2 15	23 58	0 24	5 42	2 33	23 7	0 11	5 54	1 41	5 13	15 1	17 34	17 12	9 1		n.a.
M18	23 28	1 47	4 41	21 31	0 19	18 49	0 59	1 34	2 16	23 58	0 24	5 41	2 33	23 7	0 11	5 53	1 41	5 13	15 1	17 33	17 11	8 59		n.a.
T 19	23 31	3n 9	3 59	22 1	0 7	19 7	0 56	1 18	2 16	23 57	0 24	5 40	2 33	23 6	0 11	5 53	1 41	5 13	15 2	17 33	17 10	8 57		n.a.
W20	23 34	7 51	3 4	22 29	0n 5	19 26	0 54	1 3	2 17	23 57	0 25	5 39	2 33	23 6	0 11	5 53	1 41	5 13	15 2	17 34	17 9	8 55		n.a.
T 21	23 37	12 5	1 59	22 56	0 16	19 43	0 51	0 48	2 17	23 56	0 25	5 38	2 32	23 6	0 11	5 53	1 41	5 13	15 2	17 34	17 8	8 53		n.a.
F 22	23 39	15 37	0 49	23 21	0 27	20 1	0 49	0 32	2 17	23 56	0 25	5 37	2 32	23 6	0 11	5 53	1 41	5 13	15 2	17 34	17 8	8 51		n.a.
S 23	23 40	18 18	0s22	23 44	0 37	20 17	0 46	0 17	2 18	23 55	0 25	5 36	2 32	23 5	0 11	5 53	1 41	5 13	15 3	17 34	17 7	8 49		n.a.
S 24	23 41	20 0	1 31	24 4	0 47	20 33	0 44	0 2	2 18	23 54	0 25	5 34	2 32	23 5	0 11	5 53	1 41	5 13	15 3	17 34	17 6	8 46		n.a.
M25	23 42	20 38	2 34	24 22	0 56	20 49	0 41	0n13	2 18	23 54	0 25	5 33	2 31	23 5	0 11	5 53	1 41	5 13	15 3	17 33	17 5	8 44		n.a.
T 26	23 42	20 13	3 29	24 38	1 4	21 4	0 39	0 28	2 19	23 53	0 25	5 32	2 31	23 5	0 11	5 54	1 41	5 13	15 3	17 32	17 4	8 42		n.a.
W27	23 42	18 51	4 13	24 51	1 12	21 19	0 36	0 43	2 19	23 52	0 25	5 30	2 31	23 4	0 11	5 54	1 41	5 13	15 4	17 30	17 3	8 40		n.a.
T 28	23 42	16 37	4 44	25 1	1 19	21 33	0 34	0 58	2 19	23 51	0 25	5 29	2 31	23 4	0 11	5 54	1 41	5 13	15 4	17 28	17 2	8 38		n.a.
F 29	23 41	13 43	5 3	25 8	1 25	21 46	0 31	1 13	2 19	23 51	0 25	5 28	2 30	23 4	0 11	5 54	1 41	5 13	15 4	17 26	17 1	8 36		n.a.
S 30	23n39	10n16	5s 8	25n12	1n31	21n59	0s28	1n27	2s20	23n50	0n25	5n26	2n30	23s 4	0s11	5s54	1s41	5s13	15s 4	17s23	17s 0	8n34		n.a.

Julian Day Number = 1681396.5, Delta T = 03h15m17s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'43, Lahiri = - 5°27'42 Julian Calendar 1 June 110 BCE == Greg. Calendar 29 May 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

JULY 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 21 52	4♋31'33	1♍22	4♋16	12♊59	9♈35	9♋ 2	22♍13	15°R14	19°R 8	22♈17	17°R55	16♏37	25♌ 2	n.a.	S 1
M 2	18 25 48	5°28'55	13°13	6°21	14°12	10°12	9°15	22°16	15♐11	19♓ 8	22°17	17♏50	16°34	25° 9	n.a.	M 2
T 3	18 29 45	6°26'17	25° 8	8°26	15°25	10°49	9°29	22°19	15° 9	19° 8	22°18	17°48	16°30	25°15	n.a.	T 3
W 4	18 33 41	7°23'40	7♎11	10°29	16°38	11°26	9°42	22°22	15° 7	19° 7	22°18	17°D47	16°27	25°22	n.a.	W 4
T 5	18 37 38	8°21'04	19°26	12°31	17°51	12° 2	9°55	22°26	15° 5	19° 7	22°18	17°48	16°24	25°29	n.a.	T 5
F 6	18 41 34	9°18'29	2♏ 0	14°32	19° 4	12°39	10° 8	22°29	15° 3	19° 7	22°19	17°49	16°21	25°35	n.a.	F 6
S 7	18 45 31	10°15'55	14°55	16°31	20°17	13°15	10°22	22°33	15° 1	19° 6	22°19	17°R49	16°18	25°42	n.a.	S 7
S 8	18 49 28	11°13'21	28°16	18°29	21°30	13°51	10°35	22°37	14°58	19° 6	22°20	17°49	16°15	25°49	n.a.	S 8
M 9	18 53 24	12°10'49	12♐ 5	20°25	22°43	14°26	10°48	22°40	14°56	19° 6	22°20	17°47	16°11	25°56	n.a.	M 9
T 10	18 57 21	13° 8'17	26°19	22°20	23°56	15° 2	11° 1	22°44	14°54	19° 5	22°20	17°42	16° 8	26° 2	n.a.	T 10
W11	19 1 17	14° 5'47	10♑57	24°14	25°10	15°37	11°14	22°48	14°52	19° 5	22°21	17°35	16° 5	26° 9	n.a.	W11
T 12	19 5 14	15° 3'18	25°51	26° 6	26°23	16°12	11°28	22°52	14°50	19° 4	22°21	17°27	16° 2	26°16	n.a.	T 12
F 13	19 9 10	16° 0'50	10♒52	27°57	27°36	16°47	11°41	22°56	14°48	19° 4	22°21	17°19	15°59	26°23	n.a.	F 13
S 14	19 13 7	16°58'24	25°52	29°46	28°50	17°22	11°54	23° 0	14°46	19° 3	22°22	17°11	15°56	26°29	n.a.	S 14
S 15	19 17 3	17°55'59	10♓40	1♌33	0♋ 3	17°56	12° 7	23° 5	14°44	19° 3	22°22	17° 4	15°52	26°36	n.a.	S 15
M16	19 21 0	18°53'35	25°11	3°19	1°17	18°31	12°20	23° 9	14°43	19° 2	22°22	17° 0	15°49	26°43	n.a.	M16
T 17	19 24 57	19°51'14	9♈21	5° 4	2°30	19° 4	12°33	23°13	14°41	19° 1	22°22	16°57	15°46	26°49	n.a.	T 17
W18	19 28 53	20°48'54	23° 9	6°47	3°44	19°38	12°47	23°18	14°39	19° 1	22°23	16°D57	15°43	26°56	n.a.	W18
T 19	19 32 50	21°46'35	6♉36	8°29	4°58	20°12	13° 0	23°22	14°37	19° 0	22°23	16°57	15°40	27° 3	n.a.	T 19
F 20	19 36 46	22°44'19	19°44	10° 9	6°11	20°45	13°13	23°27	14°35	18°59	22°23	16°R58	15°36	27°10	n.a.	F 20
S 21	19 40 43	23°42'04	2♊35	11°48	7°25	21°18	13°26	23°32	14°34	18°58	22°23	16°56	15°33	27°16	n.a.	S 21
S 22	19 44 39	24°39'51	15°14	13°26	8°39	21°50	13°39	23°36	14°32	18°58	22°23	16°53	15°30	27°23	n.a.	S 22
M23	19 48 36	25°37'40	27°41	15° 2	9°52	22°23	13°52	23°41	14°30	18°57	22°23	16°47	15°27	27°30	n.a.	M23
T 24	19 52 32	26°35'31	9♋59	16°36	11° 6	22°55	14° 5	23°46	14°29	18°56	22°23	16°38	15°24	27°36	n.a.	T 24
W25	19 56 29	27°33'23	22° 9	18° 9	12°20	23°26	14°18	23°51	14°27	18°55	22°23	16°27	15°21	27°43	n.a.	W25
T 26	20 0 26	28°31'16	4♌12	19°41	13°34	23°58	14°31	23°56	14°26	18°54	22°23	16°15	15°17	27°50	n.a.	T 26
F 27	20 4 22	29°29'12	16° 9	21°11	14°48	24°29	14°44	24° 1	14°24	18°53	22°R23	16° 1	15°14	27°57	n.a.	F 27
S 28	20 8 19	0♌27'08	28° 2	22°40	16° 2	25° 0	14°57	24° 6	14°23	18°52	22°23	15°49	15°11	28° 3	n.a.	S 28
S 29	20 12 15	1°25'07	9♍53	24° 8	17°16	25°30	15°10	24°11	14°21	18°51	22°23	15°38	15° 8	28°10	n.a.	S 29
M30	20 16 12	2°23'06	21°43	25°34	18°30	26° 1	15°23	24°17	14°20	18°50	22°23	15°29	15° 5	28°17	n.a.	M30
T 31	20 20 8	3♌21'08	3♎37	26♌59	19♋44	26♈31	15♋36	24♍22	14♐19	18♓49	22♈23	15♏23	15♏ 2	28♌24	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
S 1	23n38	6n27	4s59	25n14	1n36	22n11	0s26	1n42	2s20	23n49	0n25	5n25	2n30	23s 3	0s11	5s54	1s41	5s13	15s 5	17s22	16s59	8n32			n.a.
M 2	23 35	2 23	4 38	25 12	1 39	22 22	0 23	1 56	2 20	23 48	0 26	5 23	2 30	23 3	0 11	5 54	1 42	5 13	15 5	17 20	16 58	8 30			n.a.
T 3	23 33	1s48	4 5	25 9	1 43	22 33	0 21	2 11	2 20	23 47	0 26	5 22	2 30	23 3	0 11	5 54	1 42	5 14	15 5	17 20	16 57	8 27			n.a.
W 4	23 30	5 57	3 21	25 2	1 45	22 44	0 18	2 25	2 21	23 47	0 26	5 20	2 29	23 3	0 11	5 54	1 42	5 14	15 6	17 19	16 57	8 25			n.a.
T 5	23 26	9 57	2 27	24 53	1 47	22 53	0 15	2 39	2 21	23 46	0 26	5 19	2 29	23 2	0 11	5 55	1 42	5 14	15 6	17 20	16 56	8 23			n.a.
F 6	23 23	13 37	1 24	24 42	1 48	23 2	0 13	2 53	2 21	23 45	0 26	5 17	2 29	23 2	0 11	5 55	1 42	5 14	15 6	17 20	16 55	8 21			n.a.
S 7	23 18	16 44	0 16	24 28	1 49	23 11	0 10	3 7	2 21	23 44	0 26	5 16	2 29	23 2	0 11	5 55	1 42	5 14	15 6	17 20	16 54	8 19			n.a.
S 8	23 14	19 5	0n56	24 12	1 48	23 18	0 8	3 21	2 21	23 43	0 26	5 14	2 28	23 2	0 11	5 55	1 42	5 14	15 7	17 20	16 53	8 17			n.a.
M 9	23 8	20 24	2 6	23 54	1 48	23 25	0 5	3 35	2 22	23 42	0 26	5 12	2 28	23 1	0 11	5 55	1 42	5 14	15 7	17 19	16 52	8 15			n.a.
T 10	23 3	20 28	3 11	23 35	1 46	23 32	0 2	3 49	2 22	23 41	0 26	5 10	2 28	23 1	0 11	5 56	1 42	5 14	15 7	17 18	16 51	8 13			n.a.
W11	22 57	19 11	4 5	23 13	1 44	23 37	0n 0	4 2	2 22	23 40	0 26	5 9	2 28	23 1	0 11	5 56	1 42	5 14	15 8	17 16	16 50	8 11			n.a.
T 12	22 51	16 34	4 43	22 50	1 42	23 42	0 3	4 16	2 22	23 39	0 26	5 7	2 28	23 1	0 11	5 56	1 42	5 15	15 8	17 14	16 49	8 8			n.a.
F 13	22 44	12 51	5 2	22 25	1 39	23 46	0 5	4 29	2 22	23 38	0 27	5 5	2 27	23 1	0 11	5 56	1 42	5 15	15 8	17 11	16 48	8 6			n.a.
S 14	22 37	8 19	5 1	21 59	1 36	23 50	0 8	4 42	2 22	23 37	0 27	5 3	2 27	23 0	0 11	5 57	1 42	5 15	15 8	17 9	16 47	8 4			n.a.
S 15	22 29	3 21	4 39	21 31	1 32	23 53	0 10	4 56	2 22	23 35	0 27	5 1	2 27	23 0	0 11	5 57	1 42	5 15	15 9	17 7	16 46	8 2			n.a.
M16	22 21	1n44	4 0	21 3	1 27	23 55	0 13	5 9	2 22	23 34	0 27	4 59	2 27	23 0	0 11	5 57	1 42	5 15	15 9	17 6	16 45	8 0			n.a.
T 17	22 13	6 36	3 6	20 33	1 23	23 56	0 15	5 22	2 22	23 33	0 27	4 57	2 27	23 0	0 11	5 58	1 42	5 15	15 9	17 5	16 45	7 58			n.a.
W18	22 4	11 0	2 3	20 2	1 18	23 57	0 18	5 34	2 22	23 32	0 27	4 56	2 26	22 59	0 11	5 58	1 43	5 16	15 10	17 5	16 44	7 56			n.a.
T 19	21 55	14 44	0 55	19 30	1 12	23 57	0 20	5 47	2 22	23 31	0 27	4 54	2 26	22 59	0 11	5 58	1 43	5 16	15 10	17 5	16 43	7 54			n.a.
F 20	21 46	17 38	0s15	18 58	1 7	23 56	0 23	6 0	2 22	23 30	0 27	4 52	2 26	22 59	0 11	5 59	1 43	5 16	15 10	17 5	16 42	7 51			n.a.
S 21	21 36	19 34	1 22	18 24	1 0	23 55	0 25	6 12	2 22	23 28	0 27	4 49	2 26	22 59	0 11	5 59	1 43	5 16	15 10	17 5	16 41	7 49			n.a.
S 22	21 26	20 29	2 24	17 50	0 54	23 53	0 27	6 24	2 22	23 27	0 28	4 47	2 26	22 59	0 11	5 59	1 43	5 17	15 11	17 4	16 40	7 47			n.a.
M23	21 15	20 23	3 18	17 16	0 47	23 50	0 30	6 36	2 22	23 26	0 28	4 45	2 25	22 59	0 11	6 0	1 43	5 17	15 11	17 2	16 39	7 45			n.a.
T 24	21 4	19 18	4 2	16 41	0 40	23 46	0 32	6 48	2 22	23 25	0 28	4 43	2 25	22 58	0 11	6 0	1 43	5 17	15 11	17 0	16 38	7 43			n.a.
W25	20 53	17 21	4 35	16 5	0 33	23 42	0 34	7 0	2 22	23 23	0 28	4 41	2 25	22 58	0 11	6 0	1 43	5 17	15 12	16 57	16 37	7 41			n.a.
T 26	20 41	14 39	4 54	15 29	0 26	23 37	0 37	7 12	2 22	23 22	0 28	4 39	2 25	22 58	0 11	6 1	1 43	5 18	15 12	16 53	16 36	7 39			n.a.
F 27	20 29	11 23	5 1	14 53	0 18	23 31	0 39	7 24	2 22	23 21	0 28	4 37	2 25	22 58	0 11	6 1	1 43	5 18	15 12	16 49	16 35	7 37			n.a.
S 28	20 17	7 41	4 54	14 16	0 10	23 24	0 41	7 35	2 22	23 19	0 28	4 34	2 25	22 58	0 11	6 2	1 43	5 18	15 12	16 45	16 34	7 35			n.a.
S 29	20 4	3 43	4 35	13 40	0 2	23 17	0 43	7 46	2 22	23 18	0 28	4 32	2 24	22 57	0 11	6 2	1 43	5 18	15 13	16 42	16 33	7 32			n.a.
M30	19 51	0s24	4 4	13 3	0s 6	23 9	0 45	7 58	2 22	23 17	0 28	4 30	2 24	22 57	0 11	6 3	1 43	5 19	15 13	16 40	16 32	7 30			n.a.
T 31	19n37	4s32	3s22	12n26	0s14	23n 1	0n47	8n 9	2s21	23n15	0n28	4n28	2n24	22s57	0s11	6s 3	1s43	5s19	15s13	16s38	16s31	7n28			n.a.

Julian Day Number = 1681426.5, Delta T = 03h15m16s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'39, Lahiri = - 5°27'38 Julian Calendar 1 July 110 BCE == Greg. Calendar 28 June 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

AUGUST 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 24 5	4♌19'10	15♎38	28♌22	20♋58	27♈ 0	15♋49	24♍27	14°R17	18°R48	22°R23	15°R20	14♏58	28♌30	n.a.	W 1
T 2	20 28 1	5°17'15	27°50	29°43	22°12	27°29	16° 2	24°33	14♐16	18♓47	22♈23	15♏18	14°55	28°37	n.a.	T 2
F 3	20 31 58	6°15'21	10♏20	1♍ 3	23°26	27°58	16°15	24°38	14°15	18°46	22°23	15°18	14°52	28°44	n.a.	F 3
S 4	20 35 55	7°13'28	23°11	2°22	24°41	28°27	16°27	24°44	14°14	18°45	22°23	15°18	14°49	28°50	n.a.	S 4
S 5	20 39 51	8°11'37	6♐28	3°39	25°55	28°55	16°40	24°50	14°13	18°44	22°22	15°17	14°46	28°57	n.a.	S 5
M 6	20 43 48	9° 9'48	20°14	4°54	27° 9	29°22	16°53	24°55	14°12	18°42	22°22	15°14	14°42	29° 4	n.a.	M 6
T 7	20 47 44	10° 8'00	4♑30	6° 7	28°23	29°50	17° 5	25° 1	14°11	18°41	22°22	15° 8	14°39	29°11	n.a.	T 7
W 8	20 51 41	11° 6'14	19°13	7°18	29°38	0♉17	17°18	25° 7	14°10	18°40	22°22	14°59	14°36	29°17	n.a.	W 8
T 9	20 55 37	12° 4'29	4♒18	8°28	0♌52	0°43	17°31	25°13	14° 9	18°39	22°21	14°49	14°33	29°24	n.a.	T 9
F 10	20 59 34	13° 2'47	19°35	9°35	2° 6	1°10	17°43	25°18	14° 8	18°38	22°21	14°38	14°30	29°31	n.a.	F 10
S 11	21 3 30	14° 1'06	4♓52	10°40	3°21	1°36	17°56	25°24	14° 7	18°36	22°21	14°28	14°27	29°37	n.a.	S 11
S 12	21 7 27	14°59'27	19°58	11°43	4°35	2° 1	18° 8	25°30	14° 6	18°35	22°21	14°19	14°23	29°44	n.a.	S 12
M13	21 11 24	15°57'51	4♈45	12°44	5°50	2°26	18°21	25°36	14° 6	18°34	22°20	14°13	14°20	29°51	n.a.	M13
T 14	21 15 20	16°56'16	19° 7	13°42	7° 4	2°50	18°33	25°43	14° 5	18°32	22°20	14° 9	14°17	29°58	n.a.	T 14
W15	21 19 17	17°54'44	3♉ 2	14°37	8°19	3°15	18°45	25°49	14° 4	18°31	22°19	14° 7	14°14	0♍ 4	n.a.	W15
T 16	21 23 13	18°53'14	16°30	15°30	9°33	3°38	18°58	25°55	14° 4	18°29	22°19	14° 7	14°11	0°11	n.a.	T 16
F 17	21 27 10	19°51'47	29°35	16°19	10°48	4° 1	19°10	26° 1	14° 3	18°28	22°19	14° 7	14° 8	0°18	n.a.	F 17
S 18	21 31 6	20°50'22	12♊19	17° 5	12° 3	4°24	19°22	26° 7	14° 3	18°27	22°18	14° 6	14° 4	0°24	n.a.	S 18
S 19	21 35 3	21°48'59	24°48	17°47	13°17	4°46	19°34	26°14	14° 2	18°25	22°18	14° 2	14° 1	0°31	n.a.	S 19
M20	21 38 59	22°47'38	7♋ 4	18°25	14°32	5° 8	19°46	26°20	14° 2	18°24	22°17	13°56	13°58	0°38	n.a.	M20
T 21	21 42 56	23°46'20	19°11	18°59	15°47	5°29	19°58	26°26	14° 1	18°22	22°17	13°46	13°55	0°45	n.a.	T 21
W22	21 46 53	24°45'04	1♌12	19°29	17° 2	5°50	20°10	26°33	14° 1	18°21	22°16	13°35	13°52	0°51	n.a.	W22
T 23	21 50 49	25°43'50	13° 8	19°54	18°16	6°10	20°22	26°39	14° 1	18°19	22°16	13°21	13°48	0°58	n.a.	T 23
F 24	21 54 46	26°42'38	25° 1	20°13	19°31	6°29	20°34	26°46	14° 1	18°18	22°15	13° 7	13°45	1° 5	n.a.	F 24
S 25	21 58 42	27°41'28	6♍53	20°27	20°46	6°48	20°46	26°52	14° 0	18°16	22°14	12°54	13°42	1°11	n.a.	S 25
S 26	22 2 39	28°40'20	18°44	20°35	22° 1	7° 7	20°57	26°59	14° 0	18°15	22°14	12°42	13°39	1°18	n.a.	S 26
M27	22 6 35	29°39'14	0♎37	20°R36	23°16	7°25	21° 9	27° 6	14°D 0	18°13	22°13	12°32	13°36	1°25	n.a.	M27
T 28	22 10 32	0♍38'10	12°33	20°31	24°31	7°42	21°21	27°12	14° 0	18°11	22°13	12°26	13°33	1°32	n.a.	T 28
W29	22 14 28	1°37'08	24°36	20°18	25°46	7°59	21°32	27°19	14° 0	18°10	22°12	12°22	13°29	1°38	n.a.	W29
T 30	22 18 25	2°36'09	6♏50	19°59	27° 1	8°15	21°44	27°26	14° 0	18° 8	22°11	12°D21	13°26	1°45	n.a.	T 30
F 31	22 22 21	3♍35'10	19♏18	19♍31	28♌16	8♉30	21♋55	27♍32	14♐ 1	18♓ 7	22♈11	12♏21	13♏23	1♍52	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	19n24	8s31	2s30	11n49	0s23	22n52	0n49	8n19	2s21	23n14	0n29	4n25	2n24	22s57	0s11	6s 3	1s43	5s19	15s14	16s37	16s31	7n26			n.a.
T 2	19 9	12 14	1 31	11 13	0 31	22 42	0 51	8 30	2 21	23 12	0 29	4 23	2 24	22 57	0 11	6 4	1 43	5 20	15 14	16 36	16 30	7 24			n.a.
F 3	18 55	15 30	0 26	10 36	0 40	22 31	0 53	8 41	2 21	23 11	0 29	4 21	2 24	22 57	0 11	6 4	1 43	5 20	15 14	16 36	16 29	7 22			n.a.
S 4	18 40	18 6	0n42	9 59	0 49	22 20	0 55	8 51	2 21	23 10	0 29	4 18	2 23	22 57	0 11	6 5	1 43	5 20	15 14	16 36	16 28	7 20			n.a.
S 5	18 25	19 50	1 49	9 23	0 58	22 8	0 57	9 1	2 20	23 8	0 29	4 16	2 23	22 56	0 11	6 5	1 43	5 21	15 15	16 36	16 27	7 18			n.a.
M 6	18 10	20 28	2 53	8 47	1 7	21 55	0 58	9 11	2 20	23 7	0 29	4 13	2 23	22 56	0 11	6 6	1 43	5 21	15 15	16 35	16 26	7 15			n.a.
T 7	17 54	19 49	3 49	8 12	1 16	21 42	1 0	9 21	2 20	23 5	0 29	4 11	2 23	22 56	0 11	6 6	1 44	5 21	15 15	16 33	16 25	7 13			n.a.
W 8	17 38	17 51	4 31	7 37	1 25	21 28	1 2	9 31	2 20	23 4	0 29	4 9	2 23	22 56	0 11	6 7	1 44	5 22	15 16	16 31	16 24	7 11			n.a.
T 9	17 22	14 37	4 55	7 2	1 34	21 13	1 4	9 41	2 19	23 2	0 30	4 6	2 23	22 56	0 11	6 8	1 44	5 22	15 16	16 28	16 23	7 9			n.a.
F 10	17 5	10 23	4 59	6 29	1 43	20 58	1 5	9 50	2 19	23 1	0 30	4 4	2 22	22 56	0 11	6 8	1 44	5 22	15 16	16 24	16 22	7 7			n.a.
S 11	16 48	5 28	4 42	5 55	1 52	20 42	1 7	10 0	2 19	22 59	0 30	4 1	2 22	22 56	0 11	6 9	1 44	5 23	15 16	16 21	16 21	7 5			n.a.
S 12	16 31	0 16	4 5	5 23	2 1	20 26	1 8	10 9	2 18	22 57	0 30	3 59	2 22	22 56	0 11	6 9	1 44	5 23	15 17	16 19	16 20	7 3			n.a.
M13	16 14	4n50	3 12	4 51	2 10	20 9	1 9	10 18	2 18	22 56	0 30	3 56	2 22	22 56	0 11	6 10	1 44	5 23	15 17	16 17	16 19	7 1			n.a.
T 14	15 56	9 32	2 8	4 21	2 19	19 51	1 11	10 27	2 17	22 54	0 30	3 53	2 22	22 56	0 11	6 10	1 44	5 24	15 17	16 16	16 18	6 58			n.a.
W15	15 38	13 34	0 58	3 51	2 27	19 33	1 12	10 35	2 17	22 53	0 30	3 51	2 22	22 55	0 11	6 11	1 44	5 24	15 17	16 15	16 17	6 56			n.a.
T 16	15 20	16 45	0s13	3 23	2 36	19 14	1 13	10 44	2 16	22 51	0 30	3 48	2 22	22 55	0 11	6 11	1 44	5 25	15 18	16 15	16 16	6 54			n.a.
F 17	15 1	18 58	1 21	2 56	2 44	18 55	1 14	10 52	2 16	22 49	0 31	3 46	2 22	22 55	0 11	6 12	1 44	5 25	15 18	16 15	16 15	6 52			n.a.
S 18	14 42	20 10	2 23	2 31	2 53	18 35	1 16	11 0	2 16	22 48	0 31	3 43	2 21	22 55	0 11	6 13	1 44	5 25	15 18	16 15	16 14	6 50			n.a.
S 19	14 23	20 19	3 17	2 7	3 1	18 14	1 17	11 8	2 15	22 46	0 31	3 40	2 21	22 55	0 11	6 13	1 44	5 26	15 18	16 14	16 13	6 48			n.a.
M20	14 4	19 30	4 1	1 45	3 8	17 53	1 18	11 16	2 14	22 45	0 31	3 38	2 21	22 55	0 11	6 14	1 44	5 26	15 19	16 12	16 12	6 46			n.a.
T 21	13 45	17 48	4 33	1 25	3 15	17 32	1 19	11 24	2 14	22 43	0 31	3 35	2 21	22 55	0 11	6 14	1 44	5 27	15 19	16 9	16 11	6 44			n.a.
W22	13 25	15 21	4 53	1 7	3 22	17 10	1 19	11 31	2 13	22 41	0 31	3 32	2 21	22 55	0 11	6 15	1 44	5 27	15 19	16 5	16 11	6 41			n.a.
T 23	13 5	12 16	5 0	0 51	3 28	16 48	1 20	11 38	2 13	22 40	0 31	3 30	2 21	22 55	0 11	6 16	1 44	5 27	15 19	16 1	16 10	6 39			n.a.
F 24	12 45	8 43	4 54	0 39	3 34	16 25	1 21	11 45	2 12	22 38	0 32	3 27	2 21	22 55	0 11	6 16	1 44	5 28	15 20	15 57	16 9	6 37			n.a.
S 25	12 25	4 50	4 35	0 29	3 39	16 1	1 22	11 52	2 11	22 36	0 32	3 24	2 21	22 55	0 11	6 17	1 44	5 28	15 20	15 53	16 8	6 35			n.a.
S 26	12 4	0 46	4 4	0 22	3 43	15 37	1 22	11 59	2 11	22 35	0 32	3 22	2 21	22 55	0 11	6 18	1 44	5 29	15 20	15 49	16 7	6 33			n.a.
M27	11 43	3s20	3 22	0 18	3 46	15 13	1 23	12 6	2 10	22 33	0 32	3 19	2 21	22 55	0 11	6 18	1 44	5 29	15 20	15 46	16 6	6 31			n.a.
T 28	11 22	7 20	2 31	0 18	3 48	14 48	1 23	12 12	2 9	22 31	0 32	3 16	2 20	22 55	0 11	6 19	1 44	5 30	15 21	15 44	16 5	6 29			n.a.
W29	11 1	11 4	1 33	0 22	3 49	14 23	1 24	12 18	2 8	22 30	0 32	3 13	2 20	22 55	0 11	6 20	1 44	5 30	15 21	15 43	16 4	6 27			n.a.
T 30	10 40	14 24	0 29	0 30	3 49	13 58	1 24	12 24	2 8	22 28	0 32	3 10	2 20	22 55	0 11	6 20	1 44	5 30	15 21	15 43	16 3	6 24			n.a.
F 31	10n18	17s 9	0n37	0n43	3s47	13n32	1n24	12n30	2s 7	22n26	0n33	3n 8	2n20	22s55	0s11	6s21	1s44	5s31	15s21	15s43	16s 2	6n22			n.a.

Julian Day Number = 1681457.5, Delta T = 03h15m15s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'35, Lahiri = - 5°27'34 Julian Calendar 1 Aug. 110 BCE == Greg. Calendar 29 July 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

SEPTEMBER 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 26 18	4♍34'14	2♐ 5	18°R56	29♌30	8♉45	22♋ 6	27♍39	14♐ 1	18°R 5	22°R10	12°R21	13♏20	1♍59	n.a.	S 1
S 2	22 30 15	5°33'20	15°16	18♍14	0♍45	8°59	22°18	27°46	14° 1	18♓ 3	22♈ 9	12♏21	13°17	2° 5	n.a.	S 2
M 3	22 34 11	6°32'28	28°54	17°24	2° 1	9°12	22°29	27°53	14° 1	18° 2	22° 8	12°19	13°13	2°12	n.a.	M 3
T 4	22 38 8	7°31'37	13♊ 1	16°28	3°16	9°25	22°40	28° 0	14° 2	18° 0	22° 8	12°14	13°10	2°19	n.a.	T 4
W 5	22 42 4	8°30'48	27°35	15°27	4°31	9°37	22°51	28° 7	14° 2	17°58	22° 7	12° 8	13° 7	2°25	n.a.	W 5
T 6	22 46 1	9°30'01	12♒34	14°20	5°46	9°48	23° 2	28°14	14° 3	17°57	22° 6	11°59	13° 4	2°32	n.a.	T 6
F 7	22 49 57	10°29'16	27°48	13°11	7° 1	9°59	23°13	28°21	14° 3	17°55	22° 5	11°50	13° 1	2°39	n.a.	F 7
S 8	22 53 54	11°28'34	13♓ 8	12° 1	8°16	10° 9	23°23	28°28	14° 4	17°54	22° 5	11°41	12°58	2°46	n.a.	S 8
S 9	22 57 50	12°27'53	28°22	10°51	9°31	10°18	23°34	28°35	14° 4	17°52	22° 4	11°33	12°54	2°52	n.a.	S 9
M10	23 1 47	13°27'14	13♈20	9°43	10°46	10°27	23°45	28°42	14° 5	17°50	22° 3	11°28	12°51	2°59	n.a.	M10
T 11	23 5 43	14°26'38	27°53	8°40	12° 1	10°34	23°55	28°49	14° 6	17°48	22° 2	11°25	12°48	3° 6	n.a.	T 11
W12	23 9 40	15°26'04	11♉58	7°43	13°16	10°41	24° 5	28°56	14° 6	17°47	22° 1	11°D24	12°45	3°12	n.a.	W12
T 13	23 13 37	16°25'33	25°35	6°54	14°32	10°47	24°16	29° 3	14° 7	17°45	22° 0	11°25	12°42	3°19	n.a.	T 13
F 14	23 17 33	17°25'04	8♊45	6°14	15°47	10°53	24°26	29°10	14° 8	17°43	21°59	11°26	12°39	3°26	n.a.	F 14
S 15	23 21 30	18°24'37	21°31	5°45	17° 2	10°57	24°36	29°17	14° 9	17°42	21°59	11°R26	12°35	3°33	n.a.	S 15
S 16	23 25 26	19°24'13	3♋59	5°26	18°17	11° 1	24°46	29°24	14°10	17°40	21°58	11°25	12°32	3°39	n.a.	S 16
M17	23 29 23	20°23'52	16°11	5°D18	19°32	11° 4	24°56	29°31	14°11	17°38	21°57	11°21	12°29	3°46	n.a.	M17
T 18	23 33 19	21°23'32	28°13	5°21	20°48	11° 6	25° 6	29°38	14°12	17°37	21°56	11°16	12°26	3°53	n.a.	T 18
W19	23 37 16	22°23'15	10♌ 9	5°35	22° 3	11° 7	25°16	29°45	14°13	17°35	21°55	11° 8	12°23	3°59	n.a.	W19
T 20	23 41 12	23°23'00	22° 1	5°59	23°18	11°R 7	25°25	29°52	14°14	17°33	21°54	10°59	12°19	4° 6	n.a.	T 20
F 21	23 45 9	24°22'47	3♍52	6°33	24°34	11° 6	25°35	29°59	14°16	17°32	21°53	10°50	12°16	4°13	n.a.	F 21
S 22	23 49 6	25°22'37	15°45	7°16	25°49	11° 5	25°44	0♎ 7	14°17	17°30	21°52	10°41	12°13	4°20	n.a.	S 22
S 23	23 53 2	26°22'28	27°40	8° 7	27° 4	11° 2	25°54	0°14	14°18	17°28	21°51	10°33	12°10	4°26	n.a.	S 23
M24	23 56 59	27°22'22	9♎39	9° 5	28°19	10°59	26° 3	0°21	14°20	17°27	21°50	10°27	12° 7	4°33	n.a.	M24
T 25	0 0 55	28°22'17	21°44	10°10	29°35	10°55	26°12	0°28	14°21	17°25	21°49	10°23	12° 4	4°40	n.a.	T 25
W26	0 4 52	29°22'15	3♏57	11°21	0♎50	10°50	26°21	0°36	14°23	17°23	21°48	10°21	12° 0	4°46	n.a.	W26
T 27	0 8 48	0♎22'14	16°20	12°36	2° 5	10°44	26°30	0°43	14°24	17°22	21°47	10°D21	11°57	4°53	n.a.	T 27
F 28	0 12 45	1°22'15	28°55	13°56	3°21	10°37	26°38	0°50	14°26	17°20	21°46	10°22	11°54	5° 0	n.a.	F 28
S 29	0 16 41	2°22'19	11♐46	15°19	4°36	10°29	26°47	0°57	14°27	17°19	21°45	10°24	11°51	5° 6	n.a.	S 29
S 30	0 20 38	3♎22'23	24♐56	16♍45	5♎52	10♉20	26♋56	1♎ 4	14♐29	17♓17	21♈44	10♏25	11♏48	5♍13	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat
S 1	9n56	19s 8	1n43	1n 0	3s44	13n 5	1n25	12n35	2s 6	22n25	0n33	3n 5	2n20	22s55	0s11	6s22	1s44	5s31	15s22	15s43	16s 1	6n20			n.a.
S 2	9 35	20 8	2 46	1 21	3 39	12 39	1 25	12 41	2 5	22 23	0 33	3 2	2 20	22 55	0 11	6 22	1 44	5 32	15 22	15 43	16 0	6 18			n.a.
M 3	9 13	20 1	3 41	1 47	3 32	12 12	1 25	12 46	2 4	22 21	0 33	2 59	2 20	22 55	0 11	6 23	1 44	5 32	15 22	15 42	15 59	6 16			n.a.
T 4	8 50	18 39	4 26	2 17	3 23	11 44	1 25	12 51	2 3	22 19	0 33	2 56	2 20	22 55	0 11	6 24	1 44	5 33	15 22	15 41	15 58	6 14			n.a.
W 5	8 28	16 4	4 54	2 52	3 12	11 17	1 25	12 56	2 2	22 18	0 33	2 54	2 20	22 55	0 11	6 24	1 44	5 33	15 22	15 39	15 57	6 12			n.a.
T 6	8 6	12 22	5 4	3 29	2 59	10 49	1 25	13 0	2 1	22 16	0 34	2 51	2 20	22 55	0 11	6 25	1 44	5 34	15 23	15 36	15 56	6 10			n.a.
F 7	7 43	7 48	4 52	4 10	2 44	10 21	1 25	13 5	2 0	22 14	0 34	2 48	2 20	22 55	0 11	6 26	1 44	5 34	15 23	15 33	15 55	6 7			n.a.
S 8	7 20	2 42	4 20	4 52	2 27	9 52	1 25	13 9	1 59	22 13	0 34	2 45	2 20	22 55	0 11	6 26	1 44	5 35	15 23	15 30	15 54	6 5			n.a.
S 9	6 57	2n32	3 29	5 35	2 9	9 23	1 24	13 13	1 58	22 11	0 34	2 42	2 20	22 55	0 11	6 27	1 44	5 35	15 23	15 28	15 53	6 3			n.a.
M10	6 34	7 32	2 24	6 19	1 50	8 54	1 24	13 17	1 57	22 9	0 34	2 39	2 20	22 56	0 11	6 28	1 44	5 36	15 23	15 26	15 52	6 1			n.a.
T 11	6 11	11 57	1 12	7 1	1 30	8 25	1 23	13 20	1 55	22 8	0 34	2 36	2 20	22 56	0 11	6 28	1 44	5 36	15 23	15 25	15 51	5 59			n.a.
W12	5 48	15 33	0s 3	7 41	1 10	7 55	1 23	13 23	1 54	22 6	0 35	2 34	2 20	22 56	0 11	6 29	1 44	5 36	15 24	15 25	15 50	5 57			n.a.
T 13	5 25	18 9	1 15	8 19	0 50	7 25	1 22	13 27	1 53	22 4	0 35	2 31	2 19	22 56	0 11	6 30	1 45	5 37	15 24	15 25	15 49	5 55			n.a.
F 14	5 1	19 41	2 21	8 52	0 29	6 55	1 22	13 30	1 51	22 3	0 35	2 28	2 19	22 56	0 11	6 30	1 45	5 37	15 24	15 26	15 48	5 53			n.a.
S 15	4 38	20 8	3 18	9 21	0 10	6 25	1 21	13 32	1 50	22 1	0 35	2 25	2 19	22 56	0 11	6 31	1 45	5 38	15 24	15 26	15 47	5 50			n.a.
S 16	4 14	19 35	4 4	9 45	0n 8	5 55	1 20	13 35	1 49	21 59	0 35	2 22	2 19	22 56	0 11	6 32	1 45	5 38	15 24	15 25	15 46	5 48			n.a.
M17	3 51	18 7	4 38	10 4	0 26	5 24	1 20	13 37	1 47	21 58	0 35	2 19	2 19	22 56	0 11	6 32	1 45	5 39	15 24	15 24	15 45	5 46			n.a.
T 18	3 27	15 52	4 59	10 18	0 42	4 54	1 19	13 39	1 46	21 56	0 36	2 16	2 19	22 56	0 11	6 33	1 45	5 39	15 25	15 23	15 44	5 44			n.a.
W19	3 3	12 58	5 7	10 26	0 56	4 23	1 18	13 41	1 44	21 54	0 36	2 13	2 19	22 57	0 11	6 34	1 45	5 40	15 25	15 20	15 43	5 42			n.a.
T 20	2 39	9 34	5 1	10 29	1 9	3 52	1 17	13 42	1 42	21 53	0 36	2 11	2 19	22 57	0 11	6 34	1 45	5 40	15 25	15 17	15 42	5 40			n.a.
F 21	2 15	5 49	4 43	10 27	1 21	3 21	1 16	13 44	1 41	21 51	0 36	2 8	2 19	22 57	0 11	6 35	1 45	5 41	15 25	15 14	15 41	5 38			n.a.
S 22	1 51	1 49	4 12	10 21	1 31	2 49	1 15	13 45	1 39	21 50	0 36	2 5	2 19	22 57	0 11	6 36	1 45	5 41	15 25	15 12	15 40	5 36			n.a.
S 23	1 27	2s16	3 30	10 9	1 40	2 18	1 14	13 46	1 37	21 48	0 36	2 2	2 19	22 57	0 11	6 36	1 45	5 42	15 25	15 9	15 39	5 33			n.a.
M24	1 3	6 17	2 39	9 54	1 47	1 47	1 12	13 47	1 36	21 46	0 37	1 59	2 19	22 57	0 11	6 37	1 45	5 42	15 25	15 7	15 38	5 31			n.a.
T 25	0 39	10 6	1 39	9 34	1 53	1 15	1 11	13 47	1 34	21 45	0 37	1 56	2 19	22 57	0 11	6 37	1 45	5 43	15 25	15 6	15 37	5 29			n.a.
W26	0 15	13 31	0 35	9 12	1 57	0 44	1 10	13 47	1 32	21 43	0 37	1 53	2 19	22 58	0 11	6 38	1 45	5 43	15 26	15 5	15 36	5 27			n.a.
T 27	0s 9	16 23	0n32	8 46	2 1	0 12	1 9	13 47	1 30	21 42	0 37	1 50	2 19	22 58	0 11	6 39	1 44	5 44	15 26	15 5	15 36	5 25			n.a.
F 28	0 33	18 31	1 39	8 17	2 3	0s19	1 7	13 47	1 28	21 40	0 37	1 47	2 19	22 58	0 11	6 39	1 44	5 44	15 26	15 6	15 35	5 23			n.a.
S 29	0 57	19 46	2 43	7 45	2 4	0 51	1 6	13 46	1 26	21 39	0 38	1 45	2 19	22 58	0 11	6 40	1 44	5 44	15 26	15 6	15 34	5 21			n.a.
S 30	1s21	19s57	3n39	7n12	2n 5	1s22	1n 4	13n46	1s24	21n37	0n38	1n42	2n19	22s58	0s11	6s41	1s44	5s45	15s26	15s 7	15s33	5n19			n.a.

Julian Day Number = 1681488.5, Delta T = 03h15m14s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'30, Lahiri = - 5°27'30 Julian Calendar 1 Sept. 110 BCE == Greg. Calendar 29 Aug. 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

OCTOBER 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 24 34	4♎22'30	8♉28	18♍14	7♎ 7	10°R11	27♋ 4	1♎11	14♐31	17°R15	21°R43	10°R25	11♏44	5♍20	n.a.	M 1
T 2	0 28 31	5°22'38	22°23	19°45	8°22	10♉ 1	27°12	1°19	14°32	17♓14	21♈41	10♏24	11°41	5°27	n.a.	T 2
W 3	0 32 28	6°22'47	6♒41	21°18	9°38	9°49	27°20	1°26	14°34	17°12	21°40	10°21	11°38	5°33	n.a.	W 3
T 4	0 36 24	7°22'59	21°21	22°52	10°53	9°37	27°28	1°33	14°36	17°11	21°39	10°17	11°35	5°40	n.a.	T 4
F 5	0 40 21	8°23'11	6♓17	24°27	12° 8	9°24	27°36	1°40	14°38	17° 9	21°38	10°12	11°32	5°47	n.a.	F 5
S 6	0 44 17	9°23'26	21°21	26° 3	13°24	9°11	27°44	1°47	14°40	17° 8	21°37	10° 8	11°29	5°53	n.a.	S 6
S 7	0 48 14	10°23'42	6♈25	27°39	14°39	8°56	27°52	1°54	14°42	17° 6	21°36	10° 4	11°25	6° 0	n.a.	S 7
M 8	0 52 10	11°24'00	21°18	29°17	15°54	8°41	27°59	2° 2	14°44	17° 5	21°35	10° 1	11°22	6° 7	n.a.	M 8
T 9	0 56 7	12°24'20	5♉53	0♎54	17°10	8°25	28° 6	2° 9	14°46	17° 3	21°34	10°D 0	11°19	6°14	n.a.	T 9
W10	1 0 3	13°24'42	20° 4	2°31	18°25	8° 9	28°14	2°16	14°48	17° 2	21°33	10° 0	11°16	6°20	n.a.	W10
T 11	1 4 0	14°25'06	3♊48	4° 9	19°40	7°51	28°21	2°23	14°50	17° 0	21°32	10° 2	11°13	6°27	n.a.	T 11
F 12	1 7 57	15°25'32	17° 6	5°47	20°56	7°33	28°27	2°30	14°52	16°59	21°30	10° 3	11°10	6°34	n.a.	F 12
S 13	1 11 53	16°26'00	29°59	7°24	22°11	7°14	28°34	2°37	14°55	16°57	21°29	10° 5	11° 6	6°40	n.a.	S 13
S 14	1 15 50	17°26'30	12♋30	9° 2	23°27	6°55	28°41	2°44	14°57	16°56	21°28	10°R 6	11° 3	6°47	n.a.	S 14
M15	1 19 46	18°27'02	24°45	10°39	24°42	6°35	28°47	2°51	14°59	16°55	21°27	10° 6	11° 0	6°54	n.a.	M15
T 16	1 23 43	19°27'36	6♌48	12°16	25°57	6°15	28°54	2°58	15° 2	16°53	21°26	10° 4	10°57	7° 1	n.a.	T 16
W17	1 27 39	20°28'11	18°42	13°53	27°13	5°54	29° 0	3° 5	15° 4	16°52	21°25	10° 2	10°54	7° 7	n.a.	W17
T 18	1 31 36	21°28'49	0♍33	15°30	28°28	5°33	29° 6	3°12	15° 6	16°51	21°24	10° 0	10°50	7°14	n.a.	T 18
F 19	1 35 32	22°29'28	12°25	17° 7	29°44	5°11	29°12	3°19	15° 9	16°49	21°22	9°57	10°47	7°21	n.a.	F 19
S 20	1 39 29	23°30'09	24°19	18°43	0♏59	4°49	29°17	3°26	15°11	16°48	21°21	9°54	10°44	7°27	n.a.	S 20
S 21	1 43 26	24°30'52	6♎20	20°19	2°14	4°27	29°23	3°33	15°14	16°47	21°20	9°52	10°41	7°34	n.a.	S 21
M22	1 47 22	25°31'36	18°28	21°55	3°30	4° 4	29°28	3°40	15°17	16°45	21°19	9°50	10°38	7°41	n.a.	M22
T 23	1 51 19	26°32'21	0♏46	23°31	4°45	3°41	29°33	3°46	15°19	16°44	21°18	9°49	10°35	7°48	n.a.	T 23
W24	1 55 15	27°33'09	13°15	25° 6	6° 1	3°18	29°38	3°53	15°22	16°43	21°17	9°D49	10°31	7°54	n.a.	W24
T 25	1 59 12	28°33'57	25°56	26°41	7°16	2°55	29°43	4° 0	15°25	16°42	21°16	9°49	10°28	8° 1	n.a.	T 25
F 26	2 3 8	29°34'47	8♐49	28°16	8°31	2°32	29°48	4° 7	15°27	16°41	21°15	9°50	10°25	8° 8	n.a.	F 26
S 27	2 7 5	0♏35'38	21°55	29°51	9°47	2° 9	29°53	4°13	15°30	16°40	21°13	9°51	10°22	8°14	n.a.	S 27
S 28	2 11 1	1°36'30	5♉16	1♏26	11° 2	1°46	29°57	4°20	15°33	16°39	21°12	9°52	10°19	8°21	n.a.	S 28
M29	2 14 58	2°37'23	18°52	3° 1	12°17	1°24	0♌ 1	4°27	15°36	16°37	21°11	9°52	10°16	8°28	n.a.	M29
T 30	2 18 55	3°38'18	2♒43	4°35	13°33	1° 1	0° 5	4°33	15°39	16°36	21°10	9°R53	10°12	8°34	n.a.	T 30
W31	2 22 51	4♏39'13	16♒50	6♏10	14♏48	0♉39	0♌ 9	4♎40	15♐41	16♓35	21♈ 9	9♏52	10♏ 9	8♍41	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	1s45	19s 1	4n25	6n36	2n 5	1s54	1n 3	13n45	1s22	21n36	0n38	1n39	2n19	22s59	0s11	6s41	1s44	5s45	15s26	15s 7	15s32	5n16			n.a.
T 2	2 10	16 57	4 57	5 59	2 3	2 25	1 1	13 44	1 19	21 35	0 38	1 36	2 19	22 59	0 11	6 42	1 44	5 46	15 26	15 6	15 31	5 14			n.a.
W 3	2 34	13 47	5 11	5 21	2 2	2 57	0 59	13 42	1 17	21 33	0 38	1 33	2 19	22 59	0 11	6 42	1 44	5 46	15 26	15 5	15 30	5 12			n.a.
T 4	2 58	9 42	5 6	4 41	1 59	3 28	0 58	13 40	1 15	21 32	0 39	1 30	2 19	22 59	0 11	6 43	1 44	5 47	15 26	15 4	15 29	5 10			n.a.
F 5	3 22	4 58	4 41	4 0	1 56	4 0	0 56	13 39	1 12	21 30	0 39	1 27	2 19	22 59	0 11	6 44	1 44	5 47	15 26	15 3	15 28	5 8			n.a.
S 6	3 46	0n 8	3 55	3 19	1 53	4 31	0 54	13 37	1 10	21 29	0 39	1 25	2 19	23 0	0 11	6 44	1 44	5 48	15 26	15 1	15 27	5 6			n.a.
S 7	4 10	5 14	2 54	2 36	1 49	5 2	0 52	13 34	1 8	21 28	0 39	1 22	2 20	23 0	0 11	6 45	1 44	5 48	15 26	15 0	15 26	5 4			n.a.
M 8	4 33	9 57	1 41	1 53	1 45	5 33	0 50	13 32	1 5	21 26	0 39	1 19	2 20	23 0	0 11	6 45	1 44	5 48	15 26	14 59	15 25	5 2			n.a.
T 9	4 57	13 59	0 23	1 10	1 40	6 4	0 48	13 29	1 3	21 25	0 40	1 16	2 20	23 0	0 11	6 46	1 44	5 49	15 26	14 59	15 24	4 59			n.a.
W10	5 21	17 4	0s55	0 26	1 35	6 35	0 46	13 26	1 0	21 24	0 40	1 13	2 20	23 1	0 11	6 47	1 44	5 49	15 26	14 59	15 23	4 57			n.a.
T 11	5 45	19 4	2 7	0s18	1 30	7 6	0 44	13 23	0 57	21 23	0 40	1 11	2 20	23 1	0 11	6 47	1 44	5 50	15 26	14 59	15 22	4 55			n.a.
F 12	6 8	19 55	3 10	1 2	1 24	7 36	0 42	13 19	0 55	21 21	0 40	1 8	2 20	23 1	0 11	6 48	1 44	5 50	15 26	15 0	15 21	4 53			n.a.
S 13	6 32	19 41	4 1	1 46	1 19	8 7	0 40	13 16	0 52	21 20	0 41	1 5	2 20	23 1	0 11	6 48	1 44	5 51	15 26	15 0	15 20	4 51			n.a.
S 14	6 55	18 28	4 39	2 30	1 13	8 37	0 38	13 12	0 49	21 19	0 41	1 2	2 20	23 2	0 11	6 49	1 44	5 51	15 26	15 0	15 19	4 49			n.a.
M15	7 19	16 26	5 4	3 15	1 7	9 7	0 36	13 8	0 47	21 18	0 41	0 59	2 20	23 2	0 11	6 49	1 44	5 51	15 26	15 0	15 18	4 47			n.a.
T 16	7 42	13 42	5 15	3 59	1 0	9 37	0 34	13 4	0 44	21 17	0 41	0 57	2 20	23 2	0 11	6 50	1 44	5 52	15 26	15 0	15 17	4 45			n.a.
W17	8 5	10 27	5 12	4 42	0 54	10 6	0 32	13 0	0 41	21 16	0 41	0 54	2 20	23 2	0 11	6 50	1 44	5 52	15 26	14 59	15 16	4 42			n.a.
T 18	8 28	6 48	4 55	5 26	0 48	10 35	0 29	12 55	0 38	21 15	0 42	0 51	2 20	23 3	0 11	6 51	1 44	5 53	15 26	14 59	15 15	4 40			n.a.
F 19	8 51	2 53	4 26	6 9	0 41	11 5	0 27	12 51	0 35	21 14	0 42	0 48	2 20	23 3	0 11	6 51	1 44	5 53	15 26	14 58	15 14	4 38			n.a.
S 20	9 14	1s10	3 46	6 53	0 35	11 33	0 25	12 46	0 32	21 13	0 42	0 46	2 20	23 3	0 11	6 52	1 44	5 53	15 26	14 57	15 13	4 36			n.a.
S 21	9 36	5 13	2 55	7 35	0 28	12 2	0 23	12 41	0 29	21 12	0 42	0 43	2 20	23 4	0 11	6 52	1 44	5 54	15 26	14 56	15 12	4 34			n.a.
M22	9 59	9 6	1 55	8 18	0 22	12 30	0 20	12 36	0 27	21 11	0 43	0 40	2 20	23 4	0 11	6 53	1 44	5 54	15 26	14 55	15 11	4 32			n.a.
T 23	10 21	12 39	0 50	9 0	0 15	12 58	0 18	12 31	0 24	21 10	0 43	0 38	2 21	23 4	0 11	6 53	1 44	5 54	15 26	14 55	15 10	4 30			n.a.
W24	10 43	15 41	0n19	9 41	0 8	13 26	0 16	12 26	0 21	21 9	0 43	0 35	2 21	23 4	0 11	6 54	1 44	5 55	15 26	14 55	15 9	4 28			n.a.
T 25	11 5	18 2	1 28	10 23	0 2	13 53	0 13	12 21	0 18	21 8	0 43	0 33	2 21	23 5	0 11	6 54	1 44	5 55	15 26	14 55	15 8	4 26			n.a.
F 26	11 27	19 29	2 34	11 3	0s 5	14 20	0 11	12 16	0 15	21 8	0 43	0 30	2 21	23 5	0 11	6 54	1 44	5 56	15 26	14 55	15 7	4 23			n.a.
S 27	11 48	19 55	3 33	11 43	0 11	14 46	0 9	12 10	0 12	21 7	0 44	0 27	2 21	23 5	0 11	6 55	1 44	5 56	15 26	14 56	15 6	4 21			n.a.
S 28	12 10	19 15	4 21	12 23	0 18	15 12	0 6	12 5	0 9	21 6	0 44	0 25	2 21	23 6	0 11	6 55	1 44	5 56	15 26	14 56	15 5	4 19			n.a.
M29	12 31	17 28	4 56	13 2	0 24	15 38	0 4	12 0	0 6	21 5	0 44	0 22	2 21	23 6	0 11	6 56	1 44	5 57	15 26	14 56	15 4	4 17			n.a.
T 30	12 52	14 40	5 15	13 40	0 31	16 4	0 1	11 55	0 3	21 5	0 44	0 20	2 21	23 6	0 11	6 56	1 44	5 57	15 26	14 56	15 3	4 15			n.a.
W31	13s13	10s58	5n15	14s18	0s37	16s29	0s 1	11n49	0s 0	21n 4	0n45	0n17	2n21	23s 7	0s11	6s56	1s44	5s57	15s26	14s56	15s 2	4n13			n.a.

Julian Day Number = 1681518.5, Delta T = 03h15m13s
Ecliptic obliquity = 23°42'24, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'26, Lahiri = - 5°27'26 Julian Calendar 1 Oct. 110 BCE == Greg. Calendar 28 Sept. 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

NOVEMBER 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 48	5♏40'08	1♓10	7♏44	16♏ 3	0°R17	0♌13	4♎46	15♐44	16°R34	21°R 8	9°R52	10♏ 6	8♍48	n.a.	T 1
F 2	2 30 44	6°41'05	15°40	9°18	17°19	29♈55	0°16	4°53	15°47	16♓34	21♈ 7	9♏52	10° 3	8°55	n.a.	F 2
S 3	2 34 41	7°42'02	0♈17	10°52	18°34	29°33	0°19	4°59	15°50	16°33	21° 6	9°51	10° 0	9° 1	n.a.	S 3
S 4	2 38 37	8°43'01	14°54	12°26	19°49	29°12	0°22	5° 6	15°53	16°32	21° 5	9°51	9°56	9° 8	n.a.	S 4
M 5	2 42 34	9°44'00	29°26	14° 0	21° 5	28°52	0°25	5°12	15°56	16°31	21° 4	9°D51	9°53	9°15	n.a.	M 5
T 6	2 46 30	10°45'01	13♉46	15°34	22°20	28°32	0°28	5°18	15°59	16°30	21° 3	9°R51	9°50	9°21	n.a.	T 6
W 7	2 50 27	11°46'02	27°50	17° 8	23°35	28°12	0°31	5°25	16° 2	16°29	21° 1	9°51	9°47	9°28	n.a.	W 7
T 8	2 54 24	12°47'05	11♊32	18°42	24°51	27°53	0°33	5°31	16° 6	16°28	21° 0	9°51	9°44	9°35	n.a.	T 8
F 9	2 58 20	13°48'08	24°52	20°16	26° 6	27°35	0°35	5°37	16° 9	16°28	20°59	9°51	9°41	9°42	n.a.	F 9
S 10	3 2 17	14°49'13	7♋50	21°50	27°21	27°17	0°37	5°43	16°12	16°27	20°58	9°50	9°37	9°48	n.a.	S 10
S 11	3 6 13	15°50'19	20°27	23°24	28°36	27° 0	0°39	5°49	16°15	16°26	20°57	9°49	9°34	9°55	n.a.	S 11
M12	3 10 10	16°51'25	2♌46	24°58	29°52	26°43	0°41	5°55	16°18	16°26	20°56	9°49	9°31	10° 2	n.a.	M12
T 13	3 14 6	17°52'33	14°51	26°32	1♐ 7	26°27	0°42	6° 1	16°22	16°25	20°55	9°D49	9°28	10° 8	n.a.	T 13
W14	3 18 3	18°53'42	26°46	28° 7	2°22	26°12	0°43	6° 7	16°25	16°24	20°54	9°49	9°25	10°15	n.a.	W14
T 15	3 21 59	19°54'52	8♍38	29°41	3°38	25°58	0°44	6°13	16°28	16°24	20°53	9°49	9°21	10°22	n.a.	T 15
F 16	3 25 56	20°56'02	20°29	1♐15	4°53	25°44	0°45	6°19	16°31	16°23	20°52	9°50	9°18	10°28	n.a.	F 16
S 17	3 29 53	21°57'14	2♎25	2°49	6° 8	25°31	0°46	6°25	16°35	16°23	20°51	9°51	9°15	10°35	n.a.	S 17
S 18	3 33 49	22°58'26	14°30	4°23	7°23	25°19	0°46	6°30	16°38	16°22	20°51	9°53	9°12	10°42	n.a.	S 18
M19	3 37 46	23°59'39	26°47	5°57	8°39	25° 8	0°47	6°36	16°41	16°22	20°50	9°54	9° 9	10°49	n.a.	M19
T 20	3 41 42	25° 0'53	9♏18	7°31	9°54	24°58	0°R47	6°41	16°45	16°22	20°49	9°R54	9° 6	10°55	n.a.	T 20
W21	3 45 39	26° 2'07	22° 5	9° 5	11° 9	24°48	0°47	6°47	16°48	16°21	20°48	9°54	9° 2	11° 2	n.a.	W21
T 22	3 49 35	27° 3'22	5♐ 8	10°38	12°24	24°39	0°46	6°52	16°52	16°21	20°47	9°52	8°59	11° 9	n.a.	T 22
F 23	3 53 32	28° 4'37	18°26	12°12	13°39	24°31	0°46	6°58	16°55	16°21	20°46	9°50	8°56	11°15	n.a.	F 23
S 24	3 57 28	29° 5'52	1♑58	13°44	14°55	24°24	0°45	7° 3	16°59	16°20	20°45	9°47	8°53	11°22	n.a.	S 24
S 25	4 1 25	0♐ 7'08	15°42	15°17	16°10	24°18	0°44	7° 8	17° 2	16°20	20°44	9°44	8°50	11°29	n.a.	S 25
M26	4 5 22	1° 8'23	29°36	16°48	17°25	24°12	0°43	7°14	17° 5	16°20	20°43	9°42	8°47	11°35	n.a.	M26
T 27	4 9 18	2° 9'39	13♒38	18°19	18°40	24° 8	0°42	7°19	17° 9	16°20	20°43	9°40	8°43	11°42	n.a.	T 27
W28	4 13 15	3°10'54	27°44	19°49	19°55	24° 4	0°40	7°24	17°12	16°20	20°42	9°D38	8°40	11°49	n.a.	W28
T 29	4 17 11	4°12'09	11♓54	21°18	21°10	24° 1	0°38	7°29	17°16	16°20	20°41	9°39	8°37	11°56	n.a.	T 29
F 30	4 21 8	5♐13'24	26♓ 5	22♐45	22♐26	23♈59	0♌36	7♎34	17♐19	16♓20	20♈40	9♏40	8♏34	12♍ 2	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s33	6s35	4n56	14s55	0s43	16s53	0s 4	11n44	0n 3	21n 4	0n45	0n15	2n22	23s 7	0s11	6s57	1s44	5s57	15s25	14s56	15s 1	4n11		n.a.
F 2	13 54	1 46	4 18	15 32	0 49	17 17	0 6	11 39	0 6	21 3	0 45	0 12	2 22	23 7	0 11	6 57	1 44	5 58	15 25	14 56	15 0	4 9		n.a.
S 3	14 14	3n12	3 23	16 8	0 55	17 41	0 8	11 34	0 8	21 3	0 45	0 10	2 22	23 7	0 11	6 57	1 44	5 58	15 25	14 56	14 59	4 6		n.a.
S 4	14 34	8 0	2 14	16 43	1 1	18 4	0 11	11 29	0 11	21 2	0 46	0 7	2 22	23 8	0 11	6 58	1 43	5 58	15 25	14 56	14 57	4 4		n.a.
M 5	14 54	12 17	0 58	17 17	1 7	18 26	0 13	11 24	0 14	21 2	0 46	0 5	2 22	23 8	0 11	6 58	1 43	5 59	15 25	14 56	14 56	4 2		n.a.
T 6	15 13	15 48	0s22	17 50	1 13	18 49	0 16	11 20	0 17	21 2	0 46	0 2	2 22	23 8	0 11	6 58	1 43	5 59	15 25	14 56	14 55	4 0		n.a.
W 7	15 32	18 18	1 38	18 23	1 18	19 10	0 18	11 15	0 19	21 1	0 46	0 0	2 22	23 9	0 11	6 58	1 43	5 59	15 25	14 56	14 54	3 58		n.a.
T 8	15 51	19 40	2 47	18 55	1 23	19 31	0 21	11 11	0 22	21 1	0 47	0s 2	2 22	23 9	0 11	6 59	1 43	5 59	15 25	14 56	14 53	3 56		n.a.
F 9	16 9	19 52	3 45	19 26	1 28	19 52	0 23	11 6	0 24	21 1	0 47	0 5	2 23	23 9	0 11	6 59	1 43	6 0	15 24	14 56	14 52	3 54		n.a.
S 10	16 28	18 59	4 29	19 56	1 33	20 12	0 25	11 2	0 27	21 1	0 47	0 7	2 23	23 10	0 11	6 59	1 43	6 0	15 24	14 55	14 51	3 52		n.a.
S 11	16 46	17 12	4 59	20 25	1 38	20 31	0 28	10 58	0 29	21 0	0 47	0 9	2 23	23 10	0 11	6 59	1 43	6 0	15 24	14 55	14 50	3 50		n.a.
M12	17 4	14 39	5 15	20 53	1 43	20 50	0 30	10 55	0 32	21 0	0 48	0 12	2 23	23 10	0 11	7 0	1 43	6 0	15 24	14 55	14 49	3 47		n.a.
T 13	17 21	11 32	5 16	21 20	1 47	21 8	0 32	10 51	0 34	21 0	0 48	0 14	2 23	23 11	0 11	7 0	1 43	6 0	15 24	14 55	14 48	3 45		n.a.
W14	17 38	7 58	5 4	21 45	1 51	21 26	0 35	10 48	0 37	21 0	0 48	0 16	2 23	23 11	0 11	7 0	1 43	6 1	15 24	14 55	14 47	3 43		n.a.
T 15	17 55	4 8	4 38	22 10	1 54	21 43	0 37	10 44	0 39	21 0	0 48	0 18	2 24	23 11	0 11	7 0	1 43	6 1	15 23	14 55	14 46	3 41		n.a.
F 16	18 11	0 7	4 1	22 34	1 58	22 0	0 39	10 42	0 41	21 0	0 49	0 20	2 24	23 12	0 11	7 0	1 43	6 1	15 23	14 55	14 45	3 39		n.a.
S 17	18 28	3s55	3 13	22 56	2 1	22 15	0 42	10 39	0 43	21 0	0 49	0 22	2 24	23 12	0 11	7 1	1 43	6 1	15 23	14 56	14 44	3 37		n.a.
S 18	18 43	7 52	2 16	23 17	2 4	22 30	0 44	10 36	0 46	21 1	0 49	0 25	2 24	23 13	0 11	7 1	1 43	6 1	15 23	14 56	14 43	3 35		n.a.
M19	18 59	11 33	1 12	23 37	2 6	22 45	0 46	10 34	0 48	21 1	0 49	0 27	2 24	23 13	0 11	7 1	1 43	6 2	15 23	14 57	14 42	3 33		n.a.
T 20	19 14	14 48	0 3	23 55	2 8	22 59	0 48	10 32	0 50	21 1	0 50	0 29	2 24	23 13	0 11	7 1	1 43	6 2	15 22	14 57	14 41	3 30		n.a.
W21	19 29	17 25	1n 7	24 12	2 10	23 12	0 50	10 31	0 52	21 1	0 50	0 31	2 25	23 14	0 11	7 1	1 43	6 2	15 22	14 57	14 40	3 28		n.a.
T 22	19 43	19 11	2 15	24 27	2 11	23 24	0 53	10 29	0 54	21 2	0 50	0 33	2 25	23 14	0 11	7 1	1 43	6 2	15 22	14 56	14 39	3 26		n.a.
F 23	19 57	19 55	3 17	24 41	2 12	23 36	0 55	10 28	0 56	21 2	0 50	0 35	2 25	23 14	0 11	7 1	1 43	6 2	15 22	14 55	14 38	3 24		n.a.
S 24	20 11	19 32	4 9	24 54	2 13	23 47	0 57	10 27	0 57	21 2	0 51	0 37	2 25	23 15	0 11	7 1	1 43	6 2	15 22	14 55	14 37	3 22		n.a.
S 25	20 24	18 0	4 48	25 5	2 12	23 57	0 59	10 26	0 59	21 3	0 51	0 39	2 25	23 15	0 11	7 1	1 42	6 2	15 21	14 54	14 36	3 20		n.a.
M26	20 37	15 25	5 10	25 14	2 12	24 7	1 1	10 26	1 1	21 3	0 51	0 41	2 26	23 15	0 11	7 1	1 42	6 2	15 21	14 53	14 35	3 18		n.a.
T 27	20 49	11 54	5 14	25 21	2 10	24 15	1 3	10 26	1 3	21 4	0 52	0 42	2 26	23 16	0 11	7 1	1 42	6 2	15 21	14 52	14 34	3 16		n.a.
W28	21 2	7 43	4 59	25 27	2 8	24 24	1 5	10 26	1 4	21 4	0 52	0 44	2 26	23 16	0 11	7 1	1 42	6 3	15 21	14 52	14 33	3 14		n.a.
T 29	21 13	3 5	4 26	25 31	2 6	24 31	1 7	10 26	1 6	21 5	0 52	0 46	2 26	23 16	0 11	7 1	1 42	6 3	15 20	14 52	14 32	3 11		n.a.
F 30	21s25	1n44	3n37	25s33	2s 2	24s37	1s 8	10n27	1n 7	21n 6	0n52	0s48	2n26	23s17	0s11	7s 1	1s42	6s 3	15s20	14s52	14s31	3n 9		n.a.

Julian Day Number = 1681549.5, Delta T = 03h15m12s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'22, Lahiri = - 5°27'22 Julian Calendar 1 Nov. 110 BCE == Greg. Calendar 29 Oct. 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 110 BCE
geocentric

DECEMBER 110 BCE (-109) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 25 4	6♐14'38	10♈15	24♐10	23♐41	23°R58	0°R34	7♎38	17♐23	16°D20	20°R40	9♏41	8♏31	12♍ 9	n.a.	S 1
S 2	4 29 1	7°15'53	24°23	25°33	24°56	23°D57	0♌32	7°43	17°27	16♓20	20♈39	9°43	8°27	12°16	n.a.	S 2
M 3	4 32 57	8°17'07	8♉25	26°53	26°11	23♈57	0°30	7°48	17°30	16°20	20°38	9°R43	8°24	12°22	n.a.	M 3
T 4	4 36 54	9°18'21	22°19	28°11	27°26	23°58	0°27	7°53	17°34	16°20	20°37	9°43	8°21	12°29	n.a.	T 4
W 5	4 40 51	10°19'35	6♊ 1	29°25	28°41	24° 0	0°24	7°57	17°37	16°20	20°37	9°40	8°18	12°36	n.a.	W 5
T 6	4 44 47	11°20'49	19°29	0♋34	29°56	24° 2	0°21	8° 2	17°41	16°20	20°36	9°37	8°15	12°42	n.a.	T 6
F 7	4 48 44	12°22'03	2♋41	1°39	1♋11	24° 6	0°18	8° 6	17°44	16°20	20°35	9°31	8°12	12°49	n.a.	F 7
S 8	4 52 40	13°23'16	15°34	2°38	2°26	24°10	0°14	8°10	17°48	16°21	20°35	9°25	8° 8	12°56	n.a.	S 8
S 9	4 56 37	14°24'30	28°11	3°31	3°41	24°14	0°11	8°14	17°51	16°21	20°34	9°19	8° 5	13° 3	n.a.	S 9
M10	5 0 33	15°25'43	10♌31	4°17	4°56	24°20	0° 7	8°19	17°55	16°21	20°33	9°14	8° 2	13° 9	n.a.	M10
T 11	5 4 30	16°26'56	22°37	4°54	6°11	24°26	0° 3	8°23	17°59	16°21	20°33	9° 9	7°59	13°16	n.a.	T 11
W12	5 8 27	17°28'09	4♍34	5°22	7°26	24°33	29♋59	8°27	18° 2	16°22	20°32	9° 6	7°56	13°23	n.a.	W12
T 13	5 12 23	18°29'22	16°25	5°40	8°41	24°40	29°55	8°30	18° 6	16°22	20°32	9°D 5	7°53	13°29	n.a.	T 13
F 14	5 16 20	19°30'35	28°16	5°R47	9°56	24°48	29°50	8°34	18° 9	16°23	20°31	9° 6	7°49	13°36	n.a.	F 14
S 15	5 20 16	20°31'47	10♎11	5°43	11°11	24°57	29°46	8°38	18°13	16°23	20°31	9° 7	7°46	13°43	n.a.	S 15
S 16	5 24 13	21°32'59	22°17	5°27	12°25	25° 6	29°41	8°42	18°17	16°24	20°30	9° 9	7°43	13°49	n.a.	S 16
M17	5 28 9	22°34'11	4♏37	5° 0	13°40	25°16	29°36	8°45	18°20	16°24	20°30	9°R10	7°40	13°56	n.a.	M17
T 18	5 32 6	23°35'23	17°15	4°21	14°55	25°27	29°31	8°49	18°24	16°25	20°29	9°10	7°37	14° 3	n.a.	T 18
W19	5 36 2	24°36'34	0♐15	3°32	16°10	25°38	29°25	8°52	18°27	16°25	20°29	9° 7	7°33	14°10	n.a.	W19
T 20	5 39 59	25°37'45	13°36	2°33	17°25	25°49	29°20	8°55	18°31	16°26	20°29	9° 3	7°30	14°16	n.a.	T 20
F 21	5 43 56	26°38'55	27°19	1°26	18°40	26° 2	29°14	8°58	18°34	16°27	20°28	8°57	7°27	14°23	n.a.	F 21
S 22	5 47 52	27°40'04	11♑20	0°13	19°54	26°15	29° 9	9° 2	18°38	16°27	20°28	8°49	7°24	14°30	n.a.	S 22
S 23	5 51 49	28°41'12	25°34	28♐57	21° 9	26°28	29° 3	9° 5	18°42	16°28	20°27	8°40	7°21	14°36	n.a.	S 23
M24	5 55 45	29°42'20	9♒56	27°40	22°24	26°42	28°57	9° 7	18°45	16°29	20°27	8°32	7°18	14°43	n.a.	M24
T 25	5 59 42	0♑43'26	24°20	26°24	23°38	26°57	28°51	9°10	18°49	16°30	20°27	8°25	7°14	14°50	n.a.	T 25
W26	6 3 38	1°44'31	8♓41	25°11	24°53	27°12	28°44	9°13	18°52	16°31	20°27	8°20	7°11	14°56	n.a.	W26
T 27	6 7 35	2°45'34	22°56	24° 3	26° 8	27°27	28°38	9°16	18°56	16°32	20°26	8°18	7° 8	15° 3	n.a.	T 27
F 28	6 11 31	3°46'37	7♈ 1	23° 2	27°22	27°43	28°31	9°18	18°59	16°32	20°26	8°D18	7° 5	15°10	n.a.	F 28
S 29	6 15 28	4°47'38	20°57	22° 9	28°37	28° 0	28°25	9°20	19° 3	16°33	20°26	8°18	7° 2	15°17	n.a.	S 29
S 30	6 19 25	5°48'38	4♉44	21°24	29°52	28°16	28°18	9°23	19° 6	16°34	20°26	8°R19	6°59	15°23	n.a.	S 30
M31	6 23 21	6♑49'36	18♉20	20♐48	1♒ 6	28♈34	28♋11	9♎25	19♐10	16♓35	20♈25	8♏19	6♏55	15♍30	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s35	6n28	2n35	25s33	1s58	24s43	1s10	10n28	1n 9	21n 6	0n53	0s50	2n27	23s17	0s11	7s 1	1s42	6s 3	15s20	14s53	14s30	3n 7		n.a.
S 2	21 46	10 51	1 23	25 31	1 53	24 48	1 12	10 29	1 10	21 7	0 53	0 51	2 27	23 17	0 11	7 1	1 42	6 3	15 20	14 53	14 29	3 5		n.a.
M 3	21 56	14 35	0 7	25 28	1 48	24 53	1 14	10 30	1 12	21 8	0 53	0 53	2 27	23 18	0 11	7 1	1 42	6 3	15 19	14 53	14 28	3 3		n.a.
T 4	22 6	17 27	1s 9	25 23	1 41	24 56	1 15	10 32	1 13	21 9	0 53	0 55	2 27	23 18	0 11	7 1	1 42	6 3	15 19	14 53	14 27	3 1		n.a.
W 5	22 15	19 16	2 19	25 16	1 33	24 59	1 17	10 33	1 14	21 10	0 54	0 56	2 27	23 18	0 11	7 1	1 42	6 3	15 19	14 52	14 26	2 59		n.a.
T 6	22 23	19 57	3 20	25 7	1 24	25 1	1 18	10 36	1 15	21 11	0 54	0 58	2 28	23 19	0 11	7 1	1 42	6 3	15 19	14 51	14 25	2 57		n.a.
F 7	22 32	19 31	4 10	24 56	1 15	25 2	1 20	10 38	1 17	21 11	0 54	0 59	2 28	23 19	0 11	7 1	1 42	6 3	15 18	14 49	14 24	2 55		n.a.
S 8	22 40	18 4	4 45	24 44	1 4	25 2	1 21	10 40	1 18	21 12	0 54	1 1	2 28	23 19	0 11	7 0	1 42	6 3	15 18	14 48	14 23	2 53		n.a.
S 9	22 47	15 46	5 5	24 31	0 52	25 2	1 23	10 43	1 19	21 14	0 55	1 2	2 28	23 20	0 11	7 0	1 42	6 3	15 18	14 46	14 22	2 50		n.a.
M10	22 54	12 49	5 11	24 17	0 38	25 1	1 24	10 46	1 20	21 15	0 55	1 4	2 28	23 20	0 11	7 0	1 42	6 3	15 17	14 44	14 21	2 48		n.a.
T 11	23 0	9 22	5 3	24 1	0 24	24 59	1 25	10 49	1 21	21 16	0 55	1 5	2 29	23 20	0 11	7 0	1 42	6 3	15 17	14 42	14 19	2 46		n.a.
W12	23 7	5 35	4 41	23 44	0 8	24 56	1 26	10 53	1 22	21 17	0 55	1 6	2 29	23 21	0 11	7 0	1 42	6 2	15 17	14 41	14 18	2 44		n.a.
T 13	23 12	1 37	4 8	23 27	0n 8	24 53	1 28	10 57	1 23	21 18	0 56	1 8	2 29	23 21	0 11	7 0	1 42	6 2	15 17	14 41	14 17	2 42		n.a.
F 14	23 17	2s25	3 24	23 9	0 26	24 48	1 29	11 0	1 24	21 19	0 56	1 9	2 29	23 21	0 11	6 59	1 41	6 2	15 16	14 41	14 16	2 40		n.a.
S 15	23 22	6 23	2 31	22 51	0 44	24 43	1 30	11 5	1 25	21 20	0 56	1 10	2 30	23 22	0 11	6 59	1 41	6 2	15 16	14 42	14 15	2 38		n.a.
S 16	23 26	10 10	1 30	22 32	1 3	24 37	1 31	11 9	1 26	21 22	0 56	1 12	2 30	23 22	0 11	6 59	1 41	6 2	15 16	14 42	14 14	2 36		n.a.
M17	23 30	13 35	0 25	22 14	1 23	24 31	1 32	11 13	1 27	21 23	0 57	1 13	2 30	23 22	0 11	6 59	1 41	6 2	15 15	14 43	14 13	2 34		n.a.
T 18	23 33	16 28	0n44	21 56	1 42	24 24	1 32	11 18	1 27	21 24	0 57	1 14	2 30	23 23	0 11	6 58	1 41	6 2	15 15	14 42	14 12	2 31		n.a.
W19	23 36	18 37	1 52	21 39	2 1	24 15	1 33	11 23	1 28	21 26	0 57	1 15	2 31	23 23	0 11	6 58	1 41	6 2	15 15	14 42	14 11	2 29		n.a.
T 20	23 38	19 47	2 55	21 22	2 19	24 7	1 34	11 28	1 29	21 27	0 57	1 16	2 31	23 23	0 11	6 58	1 41	6 2	15 14	14 40	14 10	2 27		n.a.
F 21	23 40	19 51	3 50	21 7	2 35	23 57	1 35	11 33	1 30	21 28	0 57	1 17	2 31	23 24	0 11	6 57	1 41	6 1	15 14	14 38	14 9	2 25		n.a.
S 22	23 41	18 42	4 32	20 52	2 50	23 47	1 35	11 38	1 30	21 30	0 58	1 18	2 31	23 24	0 11	6 57	1 41	6 1	15 14	14 36	14 8	2 23		n.a.
S 23	23 42	16 22	4 59	20 39	3 3	23 36	1 36	11 44	1 31	21 31	0 58	1 19	2 32	23 24	0 11	6 57	1 41	6 1	15 13	14 33	14 7	2 21		n.a.
M24	23 42	13 2	5 6	20 27	3 14	23 24	1 36	11 50	1 32	21 33	0 58	1 20	2 32	23 25	0 11	6 56	1 41	6 1	15 13	14 30	14 6	2 19		n.a.
T 25	23 42	8 55	4 55	20 17	3 23	23 12	1 36	11 56	1 32	21 34	0 58	1 21	2 32	23 25	0 11	6 56	1 41	6 1	15 13	14 28	14 5	2 17		n.a.
W26	23 42	4 19	4 25	20 8	3 29	22 59	1 37	12 2	1 33	21 36	0 59	1 22	2 32	23 25	0 11	6 56	1 41	6 1	15 13	14 27	14 4	2 15		n.a.
T 27	23 41	0n30	3 39	20 2	3 32	22 45	1 37	12 8	1 33	21 37	0 59	1 22	2 33	23 26	0 11	6 55	1 41	6 0	15 12	14 26	14 3	2 13		n.a.
F 28	23 39	5 15	2 40	19 58	3 34	22 30	1 37	12 14	1 34	21 39	0 59	1 23	2 33	23 26	0 11	6 55	1 41	6 0	15 12	14 26	14 2	2 11		n.a.
S 29	23 37	9 41	1 32	19 56	3 33	22 15	1 37	12 21	1 34	21 40	0 59	1 24	2 33	23 26	0 11	6 54	1 41	6 0	15 12	14 26	14 1	2 8		n.a.
S 30	23 35	13 33	0 19	19 56	3 30	21 59	1 37	12 27	1 35	21 42	0 59	1 25	2 33	23 26	0 11	6 54	1 41	6 0	15 11	14 26	14 0	2 6		n.a.
M31	23s32	16n37	0s53	19s58	3n25	21s43	1s37	12n34	1n35	21n44	1n 0	1s25	2n34	23s27	0s11	6s54	1s41	5s59	15s11	14s26	13s59	2n 4		n.a.

Julian Day Number = 1681579.5, Delta T = 03h15m11s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'18, Lahiri = - 5°27'17 Julian Calendar 1 Dec. 110 BCE == Greg. Calendar 28 Nov. 110 BCE

The year -109 astronomical counting style corresponds to year 110 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

JANUARY 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 27 18	7♉50'33	1♊47	20°R21	2♒21	28♈52	28°R 4	9♎27	19♐13	16♓36	20°R25	8°R16	6♏52	15♍37	n.a.	T 1
W 2	6 31 14	8°51'29	15° 3	20♐ 2	3°35	29°10	27♋57	9°29	19°16	16°38	20♈25	8♏11	6°49	15°43	n.a.	W 2
T 3	6 35 11	9°52'24	28° 9	19°52	4°49	29°29	27°50	9°31	19°20	16°39	20°25	8° 3	6°46	15°50	n.a.	T 3
F 4	6 39 7	10°53'17	11♋ 3	19°D50	6° 4	29°48	27°43	9°33	19°23	16°40	20°25	7°53	6°43	15°57	n.a.	F 4
S 5	6 43 4	11°54'09	23°44	19°55	7°18	0♉ 7	27°35	9°35	19°27	16°41	20°25	7°41	6°39	16° 3	n.a.	S 5
S 6	6 47 1	12°55'00	6♌12	20° 8	8°32	0°27	27°28	9°36	19°30	16°42	20°25	7°28	6°36	16°10	n.a.	S 6
M 7	6 50 57	13°55'50	18°27	20°27	9°47	0°47	27°20	9°38	19°33	16°43	20°D25	7°17	6°33	16°17	n.a.	M 7
T 8	6 54 54	14°56'38	0♍31	20°51	11° 1	1° 8	27°13	9°39	19°37	16°45	20°25	7° 6	6°30	16°23	n.a.	T 8
W 9	6 58 50	15°57'25	12°26	21°22	12°15	1°29	27° 5	9°41	19°40	16°46	20°25	6°59	6°27	16°30	n.a.	W 9
T 10	7 2 47	16°58'11	24°17	21°57	13°29	1°50	26°58	9°42	19°43	16°47	20°25	6°54	6°24	16°37	n.a.	T 10
F 11	7 6 43	17°58'56	6♎ 6	22°37	14°44	2°11	26°50	9°43	19°47	16°49	20°25	6°51	6°20	16°44	n.a.	F 11
S 12	7 10 40	18°59'39	17°59	23°22	15°58	2°33	26°42	9°44	19°50	16°50	20°25	6°D50	6°17	16°50	n.a.	S 12
S 13	7 14 36	20° 0'22	0♏ 3	24°10	17°12	2°56	26°34	9°45	19°53	16°51	20°25	6°50	6°14	16°57	n.a.	S 13
M14	7 18 33	21° 1'03	12°21	25° 1	18°26	3°18	26°26	9°46	19°56	16°53	20°25	6°R50	6°11	17° 4	n.a.	M14
T 15	7 22 29	22° 1'43	24°59	25°56	19°40	3°41	26°18	9°46	19°59	16°54	20°26	6°49	6° 8	17°10	n.a.	T 15
W16	7 26 26	23° 2'22	8♐ 2	26°54	20°54	4° 4	26°11	9°47	20° 3	16°56	20°26	6°46	6° 5	17°17	n.a.	W16
T 17	7 30 23	24° 2'59	21°32	27°55	22° 8	4°28	26° 3	9°48	20° 6	16°57	20°26	6°39	6° 1	17°24	n.a.	T 17
F 18	7 34 19	25° 3'35	5♑28	28°58	23°22	4°52	25°55	9°48	20° 9	16°59	20°26	6°30	5°58	17°30	n.a.	F 18
S 19	7 38 16	26° 4'09	19°49	0♑ 4	24°35	5°16	25°47	9°48	20°12	17° 0	20°26	6°19	5°55	17°37	n.a.	S 19
S 20	7 42 12	27° 4'41	4♒28	1°12	25°49	5°40	25°39	9°48	20°15	17° 2	20°27	6° 7	5°52	17°44	n.a.	S 20
M21	7 46 9	28° 5'12	19°18	2°22	27° 3	6° 5	25°31	9°R48	20°18	17° 4	20°27	5°56	5°49	17°50	n.a.	M21
T 22	7 50 5	29° 5'41	4♓10	3°33	28°17	6°30	25°23	9°48	20°21	17° 5	20°27	5°46	5°45	17°57	n.a.	T 22
W23	7 54 2	0♒ 6'08	18°55	4°47	29°30	6°55	25°15	9°48	20°24	17° 7	20°28	5°38	5°42	18° 4	n.a.	W23
T 24	7 57 59	1° 6'33	3♈27	6° 2	0♓44	7°20	25° 7	9°48	20°27	17° 9	20°28	5°34	5°39	18°11	n.a.	T 24
F 25	8 1 55	2° 6'56	17°42	7°19	1°57	7°46	24°59	9°48	20°30	17°10	20°28	5°32	5°36	18°17	n.a.	F 25
S 26	8 5 52	3° 7'17	1♉39	8°38	3°11	8°12	24°52	9°47	20°33	17°12	20°29	5°32	5°33	18°24	n.a.	S 26
S 27	8 9 48	4° 7'35	15°18	9°57	4°24	8°38	24°44	9°47	20°35	17°14	20°29	5°31	5°30	18°31	n.a.	S 27
M28	8 13 45	5° 7'52	28°41	11°19	5°38	9° 4	24°36	9°46	20°38	17°15	20°30	5°30	5°26	18°37	n.a.	M28
T 29	8 17 41	6° 8'06	11♊50	12°41	6°51	9°31	24°29	9°45	20°41	17°17	20°30	5°27	5°23	18°44	n.a.	T 29
W30	8 21 38	7° 8'18	24°46	14° 5	8° 4	9°58	24°21	9°45	20°44	17°19	20°31	5°21	5°20	18°51	n.a.	W30
T 31	8 25 34	8♒ 8'29	7♋30	15♑30	9♓18	10♉25	24♋13	9♎44	20♐47	17♓21	20♈31	5♏11	5♏17	18♍57	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23s28	18n45	2s 2	20s 2	3n19	21s26	1s37	12n41	1n36	21n45	1n 0	1s26	2n34	23s27	0s11	6s53	1s41	5s59	15s11	14s25	13s58	2n 2		n.a.
W 2	23 24	19 50	3 3	20 8	3 12	21 8	1 37	12 48	1 36	21 47	1 0	1 26	2 34	23 27	0 11	6 53	1 41	5 59	15 10	14 23	13 56	2 0		n.a.
T 3	23 20	19 48	3 53	20 15	3 4	20 50	1 37	12 55	1 37	21 48	1 0	1 27	2 35	23 28	0 11	6 52	1 40	5 59	15 10	14 21	13 55	1 58		n.a.
F 4	23 15	18 45	4 31	20 24	2 56	20 31	1 36	13 2	1 37	21 50	1 0	1 27	2 35	23 28	0 11	6 52	1 40	5 58	15 10	14 17	13 54	1 56		n.a.
S 5	23 10	16 46	4 54	20 34	2 46	20 12	1 36	13 9	1 38	21 52	1 0	1 28	2 35	23 28	0 11	6 51	1 40	5 58	15 9	14 14	13 53	1 54		n.a.
S 6	23 4	14 3	5 2	20 44	2 36	19 52	1 35	13 17	1 38	21 53	1 1	1 28	2 35	23 28	0 11	6 51	1 40	5 58	15 9	14 9	13 52	1 52		n.a.
M 7	22 58	10 46	4 57	20 56	2 26	19 31	1 35	13 24	1 38	21 55	1 1	1 29	2 36	23 29	0 11	6 50	1 40	5 57	15 9	14 6	13 51	1 50		n.a.
T 8	22 51	7 5	4 38	21 8	2 15	19 10	1 34	13 32	1 39	21 57	1 1	1 29	2 36	23 29	0 11	6 50	1 40	5 57	15 8	14 2	13 50	1 47		n.a.
W 9	22 44	3 10	4 7	21 21	2 5	18 48	1 33	13 40	1 39	21 58	1 1	1 29	2 36	23 29	0 11	6 49	1 40	5 57	15 8	14 0	13 49	1 45		n.a.
T 10	22 37	0s51	3 26	21 34	1 54	18 26	1 33	13 47	1 39	22 0	1 1	1 29	2 36	23 30	0 11	6 48	1 40	5 56	15 7	13 58	13 48	1 43		n.a.
F 11	22 29	4 50	2 36	21 47	1 43	18 3	1 32	13 55	1 39	22 2	1 1	1 30	2 37	23 30	0 11	6 48	1 40	5 56	15 7	13 57	13 47	1 41		n.a.
S 12	22 21	8 39	1 38	22 0	1 32	17 40	1 31	14 3	1 40	22 3	1 2	1 30	2 37	23 30	0 11	6 47	1 40	5 56	15 7	13 57	13 46	1 39		n.a.
S 13	22 12	12 10	0 36	22 13	1 22	17 17	1 30	14 11	1 40	22 5	1 2	1 30	2 37	23 30	0 11	6 47	1 40	5 55	15 6	13 57	13 45	1 37		n.a.
M14	22 3	15 15	0n29	22 26	1 11	16 53	1 29	14 19	1 40	22 7	1 2	1 30	2 37	23 31	0 11	6 46	1 40	5 55	15 6	13 57	13 44	1 35		n.a.
T 15	21 53	17 42	1 35	22 38	1 1	16 28	1 27	14 27	1 40	22 8	1 2	1 30	2 38	23 31	0 12	6 45	1 40	5 55	15 6	13 57	13 43	1 33		n.a.
W16	21 43	19 18	2 37	22 50	0 50	16 3	1 26	14 36	1 41	22 10	1 2	1 30	2 38	23 31	0 12	6 45	1 40	5 54	15 5	13 55	13 42	1 31		n.a.
T 17	21 32	19 53	3 33	23 1	0 40	15 38	1 25	14 44	1 41	22 12	1 2	1 30	2 38	23 31	0 12	6 44	1 40	5 54	15 5	13 53	13 41	1 29		n.a.
F 18	21 21	19 17	4 18	23 12	0 30	15 12	1 24	14 52	1 41	22 13	1 2	1 30	2 39	23 32	0 12	6 44	1 40	5 54	15 5	13 50	13 40	1 27		n.a.
S 19	21 10	17 28	4 48	23 22	0 21	14 46	1 22	15 1	1 41	22 15	1 3	1 30	2 39	23 32	0 12	6 43	1 40	5 53	15 4	13 47	13 38	1 25		n.a.
S 20	20 59	14 30	5 0	23 31	0 11	14 19	1 21	15 9	1 41	22 17	1 3	1 30	2 39	23 32	0 12	6 42	1 40	5 53	15 4	13 43	13 37	1 22		n.a.
M21	20 46	10 34	4 53	23 39	0 2	13 52	1 19	15 17	1 42	22 18	1 3	1 29	2 39	23 32	0 12	6 42	1 40	5 52	15 4	13 39	13 36	1 20		n.a.
T 22	20 34	5 59	4 25	23 46	0s 7	13 25	1 17	15 26	1 42	22 20	1 3	1 29	2 40	23 33	0 12	6 41	1 40	5 52	15 3	13 35	13 35	1 18		n.a.
W23	20 21	1 4	3 40	23 53	0 16	12 57	1 16	15 34	1 42	22 21	1 3	1 29	2 40	23 33	0 12	6 40	1 40	5 51	15 3	13 33	13 34	1 16		n.a.
T 24	20 8	3n50	2 41	23 58	0 24	12 29	1 14	15 43	1 42	22 23	1 3	1 28	2 40	23 33	0 12	6 40	1 40	5 51	15 3	13 31	13 33	1 14		n.a.
F 25	19 55	8 27	1 33	24 2	0 32	12 1	1 12	15 52	1 42	22 24	1 3	1 28	2 40	23 33	0 12	6 39	1 40	5 51	15 2	13 31	13 32	1 12		n.a.
S 26	19 41	12 30	0 20	24 5	0 40	11 32	1 10	16 0	1 42	22 26	1 3	1 28	2 41	23 34	0 12	6 38	1 40	5 50	15 2	13 31	13 31	1 10		n.a.
S 27	19 26	15 47	0s51	24 7	0 48	11 3	1 8	16 9	1 42	22 27	1 3	1 27	2 41	23 34	0 12	6 37	1 39	5 50	15 2	13 31	13 30	1 8		n.a.
M28	19 12	18 9	1 59	24 8	0 55	10 34	1 6	16 18	1 42	22 29	1 3	1 27	2 41	23 34	0 12	6 37	1 39	5 49	15 1	13 30	13 29	1 6		n.a.
T 29	18 57	19 30	2 59	24 7	1 2	10 5	1 4	16 26	1 42	22 30	1 3	1 26	2 42	23 34	0 12	6 36	1 39	5 49	15 1	13 29	13 28	1 4		n.a.
W30	18 42	19 47	3 49	24 5	1 9	9 35	1 1	16 35	1 42	22 32	1 4	1 26	2 42	23 34	0 12	6 35	1 39	5 48	15 1	13 27	13 27	1 2		n.a.
T 31	18s26	19n 4	4s26	24s 2	1s15	9s 5	0s59	16n44	1n43	22n33	1n 4	1s25	2n42	23s35	0s12	6s34	1s39	5s48	15s 0	13s24	13s26	1n 0		n.a.

Julian Day Number = 1681610.5, Delta T = 03h15m10s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'14, Lahiri = - 5°27'13 Julian Calendar 1 Jan. 109 BCE == Greg. Calendar 29 Dec. 110 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

FEBRUARY 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 29 31	9♒ 8'37	20♋ 5	16♉57	10♓31	10♉52	24°R 6	9°R43	20♐49	17♓23	20♈32	4°R59	5♏14	19♍ 4	n.a.	F 1
S 2	8 33 28	10° 8'43	2♌29	18°25	11°44	11°19	23♋59	9♎42	20°52	17°25	20°32	4♏46	5°11	19°11	n.a.	S 2
S 3	8 37 24	11° 8'47	14°45	19°53	12°57	11°47	23°51	9°40	20°54	17°27	20°33	4°31	5° 7	19°17	n.a.	S 3
M 4	8 41 21	12° 8'49	26°51	21°23	14°10	12°15	23°44	9°39	20°57	17°28	20°33	4°17	5° 4	19°24	n.a.	M 4
T 5	8 45 17	13° 8'49	8♍49	22°55	15°23	12°43	23°37	9°38	21° 0	17°30	20°34	4° 5	5° 1	19°31	n.a.	T 5
W 6	8 49 14	14° 8'47	20°42	24°27	16°35	13°11	23°30	9°36	21° 2	17°32	20°34	3°56	4°58	19°37	n.a.	W 6
T 7	8 53 10	15° 8'43	2♎31	26° 1	17°48	13°39	23°23	9°34	21° 5	17°34	20°35	3°49	4°55	19°44	n.a.	T 7
F 8	8 57 7	16° 8'38	14°19	27°35	19° 1	14° 8	23°16	9°33	21° 7	17°36	20°36	3°45	4°51	19°51	n.a.	F 8
S 9	9 1 3	17° 8'31	26°12	29°11	20°14	14°36	23° 9	9°31	21° 9	17°38	20°36	3°44	4°48	19°57	n.a.	S 9
S 10	9 5 0	18° 8'22	8♏13	0♒48	21°26	15° 5	23° 3	9°29	21°12	17°40	20°37	3°D44	4°45	20° 4	n.a.	S 10
M11	9 8 56	19° 8'11	20°28	2°26	22°39	15°34	22°56	9°27	21°14	17°42	20°38	3°R44	4°42	20°11	n.a.	M11
T 12	9 12 53	20° 7'58	3♐ 3	4° 6	23°51	16° 3	22°50	9°25	21°16	17°44	20°39	3°43	4°39	20°18	n.a.	T 12
W13	9 16 50	21° 7'44	16° 2	5°46	25° 3	16°32	22°44	9°23	21°18	17°46	20°39	3°41	4°36	20°24	n.a.	W13
T 14	9 20 46	22° 7'27	29°30	7°28	26°16	17° 2	22°38	9°20	21°21	17°49	20°40	3°36	4°32	20°31	n.a.	T 14
F 15	9 24 43	23° 7'09	13♑27	9°11	27°28	17°31	22°32	9°18	21°23	17°51	20°41	3°28	4°29	20°38	n.a.	F 15
S 16	9 28 39	24° 6'50	27°52	10°55	28°40	18° 1	22°26	9°16	21°25	17°53	20°42	3°19	4°26	20°44	n.a.	S 16
S 17	9 32 36	25° 6'28	12♒42	12°40	29°52	18°31	22°20	9°13	21°27	17°55	20°42	3° 8	4°23	20°51	n.a.	S 17
M18	9 36 32	26° 6'03	27°47	14°27	1♈ 4	19° 1	22°14	9°11	21°29	17°57	20°43	2°58	4°20	20°58	n.a.	M18
T 19	9 40 29	27° 5'37	12♓58	16°14	2°16	19°31	22° 9	9° 8	21°31	17°59	20°44	2°49	4°16	21° 4	n.a.	T 19
W20	9 44 25	28° 5'09	28° 4	18° 4	3°28	20° 2	22° 4	9° 5	21°33	18° 1	20°45	2°43	4°13	21°11	n.a.	W20
T 21	9 48 22	29° 4'38	12♈57	19°54	4°39	20°32	21°59	9° 2	21°35	18° 3	20°46	2°39	4°10	21°18	n.a.	T 21
F 22	9 52 19	0♓ 4'05	27°30	21°45	5°51	21° 2	21°54	8°59	21°37	18° 6	20°47	2°D37	4° 7	21°24	n.a.	F 22
S 23	9 56 15	1° 3'29	11♉39	23°38	7° 2	21°33	21°49	8°56	21°38	18° 8	20°48	2°37	4° 4	21°31	n.a.	S 23
S 24	10 0 12	2° 2'51	25°24	25°32	8°14	22° 4	21°44	8°53	21°40	18°10	20°49	2°R38	4° 1	21°38	n.a.	S 24
M25	10 4 8	3° 2'11	8♊47	27°28	9°25	22°35	21°40	8°50	21°42	18°12	20°50	2°38	3°57	21°44	n.a.	M25
T 26	10 8 5	4° 1'28	21°49	29°24	10°37	23° 6	21°35	8°47	21°43	18°14	20°51	2°36	3°54	21°51	n.a.	T 26
W27	10 12 1	5° 0'43	4♋35	1♓22	11°48	23°37	21°31	8°43	21°45	18°17	20°52	2°33	3°51	21°58	n.a.	W27
T 28	10 15 58	5°59'55	17° 7	3°21	12°59	24° 8	21°27	8°40	21°47	18°19	20°53	2°26	3°48	22° 4	n.a.	T 28
F 29	10 19 54	6♓59'05	29♋27	5♓21	14♈10	24♉40	21♋23	8♎37	21♐48	18♓21	20♈54	2♏18	3♏45	22♍11	n.a.	F 29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	18s10	17n24	4s50	23s58	1s21	8s35	0s57	16n52	1n43	22n34	1n 4	1s24	2n42	23s35	0s12	6s34	1s39	5s47	15s 0	13s20	13s25	0n58		n.a.
S 2	17 54	14 58	5 0	23 51	1 27	8 5	0 54	17 1	1 43	22 36	1 4	1 24	2 43	23 35	0 12	6 33	1 39	5 47	15 0	13 15	13 24	0 56		n.a.
S 3	17 37	11 53	4 55	23 44	1 32	7 34	0 52	17 10	1 43	22 37	1 4	1 23	2 43	23 35	0 12	6 32	1 39	5 46	15 0	13 10	13 22	0 53		n.a.
M 4	17 21	8 21	4 37	23 35	1 37	7 4	0 49	17 19	1 43	22 38	1 4	1 22	2 43	23 35	0 12	6 31	1 39	5 46	14 59	13 5	13 21	0 51		n.a.
T 5	17 3	4 32	4 7	23 25	1 42	6 33	0 47	17 27	1 43	22 40	1 4	1 21	2 43	23 36	0 12	6 31	1 39	5 45	14 59	13 1	13 20	0 49		n.a.
W 6	16 46	0 34	3 27	23 13	1 46	6 2	0 44	17 36	1 43	22 41	1 4	1 21	2 44	23 36	0 12	6 30	1 39	5 45	14 59	12 58	13 19	0 47		n.a.
T 7	16 28	3s25	2 37	22 59	1 50	5 31	0 42	17 45	1 43	22 42	1 4	1 20	2 44	23 36	0 12	6 29	1 39	5 44	14 58	12 56	13 18	0 45		n.a.
F 8	16 10	7 15	1 41	22 44	1 54	4 59	0 39	17 53	1 43	22 43	1 4	1 19	2 44	23 36	0 12	6 28	1 39	5 44	14 58	12 55	13 17	0 43		n.a.
S 9	15 52	10 50	0 40	22 27	1 57	4 28	0 36	18 2	1 43	22 45	1 4	1 18	2 44	23 36	0 12	6 27	1 39	5 43	14 58	12 54	13 16	0 41		n.a.
S 10	15 34	14 2	0n24	22 9	2 0	3 56	0 33	18 11	1 43	22 46	1 4	1 17	2 44	23 36	0 12	6 27	1 39	5 43	14 57	12 54	13 15	0 39		n.a.
M11	15 15	16 39	1 28	21 49	2 2	3 25	0 30	18 19	1 43	22 47	1 4	1 16	2 45	23 37	0 12	6 26	1 39	5 42	14 57	12 54	13 14	0 37		n.a.
T 12	14 56	18 34	2 29	21 28	2 5	2 53	0 27	18 28	1 43	22 48	1 4	1 15	2 45	23 37	0 12	6 25	1 39	5 42	14 57	12 54	13 13	0 35		n.a.
W13	14 37	19 34	3 25	21 4	2 6	2 21	0 24	18 36	1 43	22 49	1 4	1 14	2 45	23 37	0 12	6 24	1 39	5 41	14 56	12 53	13 12	0 33		n.a.
T 14	14 17	19 31	4 11	20 40	2 7	1 50	0 21	18 45	1 43	22 50	1 4	1 13	2 45	23 37	0 12	6 23	1 39	5 41	14 56	12 51	13 11	0 31		n.a.
F 15	13 58	18 18	4 45	20 13	2 8	1 18	0 18	18 53	1 43	22 51	1 4	1 12	2 46	23 37	0 12	6 22	1 39	5 40	14 56	12 49	13 10	0 29		n.a.
S 16	13 38	15 54	5 1	19 45	2 8	0 46	0 15	19 2	1 43	22 52	1 4	1 10	2 46	23 37	0 12	6 22	1 39	5 39	14 56	12 45	13 8	0 27		n.a.
S 17	13 18	12 25	4 58	19 14	2 8	0 14	0 12	19 10	1 42	22 53	1 4	1 9	2 46	23 38	0 12	6 21	1 39	5 39	14 55	12 42	13 7	0 25		n.a.
M18	12 57	8 5	4 35	18 43	2 8	0n18	0 9	19 18	1 42	22 54	1 4	1 8	2 46	23 38	0 12	6 20	1 39	5 38	14 55	12 38	13 6	0 22		n.a.
T 19	12 37	3 12	3 52	18 9	2 6	0 50	0 5	19 27	1 42	22 55	1 4	1 7	2 46	23 38	0 12	6 19	1 39	5 38	14 55	12 35	13 5	0 20		n.a.
W20	12 16	1n52	2 53	17 34	2 5	1 21	0 2	19 35	1 42	22 56	1 4	1 5	2 47	23 38	0 12	6 18	1 39	5 37	14 55	12 33	13 4	0 18		n.a.
T 21	11 55	6 45	1 43	16 57	2 3	1 53	0n 1	19 43	1 42	22 56	1 4	1 4	2 47	23 38	0 12	6 17	1 39	5 37	14 54	12 32	13 3	0 16		n.a.
F 22	11 34	11 7	0 27	16 18	2 0	2 25	0 5	19 52	1 42	22 57	1 4	1 3	2 47	23 38	0 12	6 16	1 39	5 36	14 54	12 31	13 2	0 14		n.a.
S 23	11 13	14 44	0s48	15 38	1 57	2 57	0 8	20 0	1 42	22 58	1 4	1 1	2 47	23 38	0 12	6 15	1 39	5 35	14 54	12 31	13 1	0 12		n.a.
S 24	10 52	17 24	1 59	14 55	1 53	3 28	0 11	20 8	1 42	22 59	1 4	1 0	2 47	23 39	0 12	6 15	1 39	5 35	14 53	12 31	13 0	0 10		n.a.
M25	10 30	19 2	3 1	14 11	1 49	4 0	0 15	20 16	1 42	22 59	1 4	0 59	2 48	23 39	0 12	6 14	1 39	5 34	14 53	12 31	12 59	0 8		n.a.
T 26	10 9	19 36	3 52	13 26	1 44	4 31	0 18	20 24	1 42	23 0	1 4	0 57	2 48	23 39	0 12	6 13	1 39	5 34	14 53	12 31	12 58	0 6		n.a.
W27	9 47	19 8	4 30	12 39	1 39	5 3	0 22	20 32	1 42	23 1	1 4	0 56	2 48	23 39	0 12	6 12	1 39	5 33	14 53	12 29	12 56	0 4		n.a.
T 28	9 25	17 44	4 55	11 50	1 33	5 34	0 25	20 39	1 42	23 1	1 4	0 54	2 48	23 39	0 12	6 11	1 39	5 33	14 52	12 27	12 55	0 2		n.a.
F 29	9s 3	15n31	5s 5	10s59	1s27	6n 5	0n29	20n47	1n41	23n 2	1n 4	0s53	2n48	23s39	0s12	6s10	1s39	5s32	14s52	12s24	12s54	0s 0		n.a.

Julian Day Number = 1681641.5, Delta T = 03h15m10s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'09, Lahiri = - 5°27'09 Julian Calendar 1 Feb. 109 BCE == Greg. Calendar 29 Jan. 109 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

MARCH 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 23 51	7♓58'13	11♌38	7♓22	15♈21	25♉11	21°R20	8°R33	21♐50	18♓23	20♈55	2°R 8	3♏42	22♍18	n.a.	S 1
S 2	10 27 47	8°57'19	23°41	9°24	16°31	25°43	21♋16	8♎30	21°51	18°25	20°56	1♏58	3°38	22°25	n.a.	S 2
M 3	10 31 44	9°56'22	5♍39	11°27	17°42	26°14	21°13	8°26	21°52	18°28	20°57	1°48	3°35	22°31	n.a.	M 3
T 4	10 35 41	10°55'23	17°31	13°31	18°53	26°46	21°10	8°22	21°54	18°30	20°58	1°39	3°32	22°38	n.a.	T 4
W 5	10 39 37	11°54'22	29°21	15°35	20° 3	27°18	21° 7	8°18	21°55	18°32	20°59	1°32	3°29	22°45	n.a.	W 5
T 6	10 43 34	12°53'18	11♎10	17°39	21°13	27°50	21° 4	8°15	21°56	18°34	21° 0	1°28	3°26	22°51	n.a.	T 6
F 7	10 47 30	13°52'13	23° 0	19°43	22°23	28°22	21° 2	8°11	21°57	18°37	21° 1	1°25	3°22	22°58	n.a.	F 7
S 8	10 51 27	14°51'06	4♏55	21°48	23°34	28°54	21° 0	8° 7	21°59	18°39	21° 2	1°D25	3°19	23° 5	n.a.	S 8
S 9	10 55 23	15°49'57	16°59	23°51	24°44	29°26	20°57	8° 3	22° 0	18°41	21° 3	1°26	3°16	23°11	n.a.	S 9
M10	10 59 20	16°48'46	29°15	25°54	25°53	29°59	20°55	7°59	22° 1	18°43	21° 4	1°27	3°13	23°18	n.a.	M10
T 11	11 3 16	17°47'34	11♐48	27°56	27° 3	0♊31	20°54	7°55	22° 2	18°46	21° 6	1°28	3°10	23°25	n.a.	T 11
W12	11 7 13	18°46'20	24°44	29°56	28°13	1° 3	20°52	7°51	22° 3	18°48	21° 7	1°R28	3° 7	23°31	n.a.	W12
T 13	11 11 10	19°45'03	8♑ 5	1♈55	29°22	1°36	20°50	7°47	22° 3	18°50	21° 8	1°27	3° 3	23°38	n.a.	T 13
F 14	11 15 6	20°43'45	21°54	3°51	0♉32	2° 9	20°49	7°42	22° 4	18°53	21° 9	1°24	3° 0	23°45	n.a.	F 14
S 15	11 19 3	21°42'26	6♒12	5°45	1°41	2°41	20°48	7°38	22° 5	18°55	21°10	1°19	2°57	23°51	n.a.	S 15
S 16	11 22 59	22°41'04	20°55	7°36	2°50	3°14	20°47	7°34	22° 6	18°57	21°12	1°13	2°54	23°58	n.a.	S 16
M17	11 26 56	23°39'41	5♓58	9°24	3°59	3°47	20°47	7°30	22° 6	18°59	21°13	1° 7	2°51	24° 5	n.a.	M17
T 18	11 30 52	24°38'15	21°12	11° 9	5° 8	4°20	20°46	7°25	22° 7	19° 2	21°14	1° 3	2°47	24°11	n.a.	T 18
W19	11 34 49	25°36'48	6♈27	12°50	6°17	4°53	20°46	7°21	22° 8	19° 4	21°15	0°59	2°44	24°18	n.a.	W19
T 20	11 38 45	26°35'18	21°32	14°26	7°25	5°26	20°D46	7°17	22° 8	19° 6	21°16	0°57	2°41	24°25	n.a.	T 20
F 21	11 42 42	27°33'47	6♉19	15°59	8°34	5°59	20°46	7°12	22° 9	19° 8	21°18	0°D57	2°38	24°31	n.a.	F 21
S 22	11 46 38	28°32'13	20°42	17°27	9°42	6°33	20°46	7° 8	22° 9	19°11	21°19	0°58	2°35	24°38	n.a.	S 22
S 23	11 50 35	29°30'37	4♊39	18°51	10°50	7° 6	20°46	7° 3	22° 9	19°13	21°20	0°59	2°32	24°45	n.a.	S 23
M24	11 54 32	0♈28'59	18° 9	20°10	11°58	7°39	20°47	6°59	22°10	19°15	21°22	1° 1	2°28	24°51	n.a.	M24
T 25	11 58 28	1°27'19	1♋16	21°25	13° 6	8°13	20°48	6°54	22°10	19°17	21°23	1°R 1	2°25	24°58	n.a.	T 25
W26	12 2 25	2°25'36	14° 1	22°34	14°13	8°46	20°49	6°50	22°10	19°20	21°24	1° 1	2°22	25° 5	n.a.	W26
T 27	12 6 21	3°23'52	26°28	23°39	15°21	9°20	20°50	6°45	22°10	19°22	21°25	0°59	2°19	25°11	n.a.	T 27
F 28	12 10 18	4°22'05	8♌41	24°38	16°28	9°54	20°51	6°41	22°11	19°24	21°27	0°56	2°16	25°18	n.a.	F 28
S 29	12 14 14	5°20'16	20°45	25°33	17°35	10°27	20°53	6°36	22°11	19°26	21°28	0°52	2°13	25°25	n.a.	S 29
S 30	12 18 11	6°18'25	2♍40	26°22	18°42	11° 1	20°55	6°32	22°R11	19°28	21°29	0°48	2° 9	25°31	n.a.	S 30
M31	12 22 7	7♈16'32	14♍32	27♈ 5	19♉49	11♊35	20♋56	6♎27	22♐11	19♓31	21♈31	0♏44	2♏ 6	25♍38	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8s40	12n40	5s 1	10s 8	1s20	6n36	0n32	20n55	1n41	23n 2	1n 4	0s51	2n49	23s39	0s12	6s 9	1s39	5s31	14s52	12s21	12s53	0s 2		n.a.
S 2	8 18	9 18	4 44	9 14	1 12	7 7	0 36	21 2	1 41	23 3	1 3	0 49	2 49	23 39	0 12	6 8	1 39	5 31	14 52	12 17	12 52	0 4		n.a.
M 3	7 56	5 36	4 14	8 20	1 4	7 38	0 39	21 10	1 41	23 3	1 3	0 48	2 49	23 40	0 12	6 8	1 39	5 30	14 52	12 14	12 51	0 6		n.a.
T 4	7 33	1 42	3 34	7 24	0 55	8 8	0 43	21 17	1 41	23 4	1 3	0 46	2 49	23 40	0 12	6 7	1 39	5 30	14 51	12 11	12 50	0 8		n.a.
W 5	7 10	2s15	2 44	6 27	0 46	8 38	0 47	21 25	1 41	23 4	1 3	0 45	2 49	23 40	0 12	6 6	1 39	5 29	14 51	12 8	12 49	0 10		n.a.
T 6	6 48	6 6	1 47	5 30	0 37	9 8	0 50	21 32	1 41	23 4	1 3	0 43	2 49	23 40	0 12	6 5	1 39	5 28	14 51	12 7	12 48	0 12		n.a.
F 7	6 25	9 44	0 45	4 31	0 27	9 38	0 54	21 39	1 41	23 5	1 3	0 41	2 49	23 40	0 12	6 4	1 39	5 28	14 51	12 6	12 47	0 14		n.a.
S 8	6 2	13 0	0n19	3 32	0 16	10 8	0 57	21 46	1 41	23 5	1 3	0 40	2 50	23 40	0 12	6 3	1 39	5 27	14 50	12 6	12 46	0 16		n.a.
S 9	5 39	15 46	1 23	2 33	0 5	10 37	1 1	21 53	1 40	23 5	1 3	0 38	2 50	23 40	0 12	6 2	1 39	5 27	14 50	12 6	12 44	0 19		n.a.
M10	5 16	17 51	2 25	1 33	0n 6	11 7	1 5	22 0	1 40	23 6	1 3	0 36	2 50	23 40	0 12	6 1	1 39	5 26	14 50	12 7	12 43	0 21		n.a.
T 11	4 53	19 8	3 21	0 34	0 17	11 36	1 8	22 7	1 40	23 6	1 3	0 35	2 50	23 40	0 12	6 0	1 39	5 25	14 50	12 7	12 42	0 23		n.a.
W12	4 29	19 27	4 9	0n25	0 29	12 4	1 12	22 14	1 40	23 6	1 3	0 33	2 50	23 40	0 12	5 59	1 39	5 25	14 50	12 7	12 41	0 25		n.a.
T 13	4 6	18 43	4 45	1 23	0 40	12 33	1 15	22 20	1 40	23 6	1 3	0 31	2 50	23 40	0 12	5 59	1 39	5 24	14 49	12 6	12 40	0 27		n.a.
F 14	3 43	16 52	5 6	2 20	0 52	13 1	1 19	22 27	1 40	23 6	1 3	0 29	2 50	23 40	0 13	5 58	1 39	5 24	14 49	12 5	12 39	0 29		n.a.
S 15	3 19	13 56	5 9	3 17	1 3	13 29	1 22	22 33	1 40	23 6	1 3	0 28	2 50	23 41	0 13	5 57	1 39	5 23	14 49	12 4	12 38	0 31		n.a.
S 16	2 56	10 4	4 53	4 11	1 14	13 56	1 26	22 40	1 39	23 6	1 2	0 26	2 50	23 41	0 13	5 56	1 39	5 22	14 49	12 2	12 37	0 33		n.a.
M17	2 33	5 28	4 15	5 5	1 26	14 23	1 29	22 46	1 39	23 6	1 2	0 24	2 50	23 41	0 13	5 55	1 39	5 22	14 49	12 0	12 36	0 35		n.a.
T 18	2 9	0 28	3 20	5 56	1 36	14 50	1 33	22 52	1 39	23 6	1 2	0 22	2 51	23 41	0 13	5 54	1 39	5 21	14 49	11 58	12 35	0 37		n.a.
W19	1 46	4n34	2 10	6 45	1 47	15 17	1 36	22 58	1 39	23 6	1 2	0 20	2 51	23 41	0 13	5 53	1 39	5 21	14 48	11 57	12 33	0 39		n.a.
T 20	1 22	9 17	0 51	7 32	1 56	15 43	1 40	23 4	1 39	23 6	1 2	0 19	2 51	23 41	0 13	5 52	1 39	5 20	14 48	11 56	12 32	0 41		n.a.
F 21	0 59	13 19	0s29	8 17	2 6	16 8	1 43	23 10	1 39	23 6	1 2	0 17	2 51	23 41	0 13	5 51	1 39	5 19	14 48	11 56	12 31	0 43		n.a.
S 22	0 35	16 25	1 46	9 0	2 15	16 34	1 47	23 15	1 38	23 6	1 2	0 15	2 51	23 41	0 13	5 51	1 39	5 19	14 48	11 56	12 30	0 45		n.a.
S 23	0 12	18 27	2 54	9 40	2 23	16 59	1 50	23 21	1 38	23 6	1 2	0 13	2 51	23 41	0 13	5 50	1 39	5 18	14 48	11 57	12 29	0 47		n.a.
M24	0n12	19 21	3 50	10 17	2 30	17 23	1 53	23 26	1 38	23 6	1 2	0 11	2 51	23 41	0 13	5 49	1 39	5 18	14 48	11 57	12 28	0 49		n.a.
T 25	0 35	19 10	4 33	10 51	2 36	17 48	1 57	23 32	1 38	23 6	1 2	0 10	2 51	23 41	0 13	5 48	1 39	5 17	14 48	11 58	12 27	0 51		n.a.
W26	0 59	17 59	5 0	11 23	2 42	18 11	2 0	23 37	1 38	23 5	1 2	0 8	2 51	23 41	0 13	5 47	1 39	5 16	14 47	11 57	12 26	0 53		n.a.
T 27	1 22	15 59	5 13	11 52	2 47	18 35	2 3	23 42	1 37	23 5	1 2	0 6	2 51	23 41	0 13	5 46	1 39	5 16	14 47	11 57	12 25	0 55		n.a.
F 28	1 45	13 17	5 11	12 18	2 51	18 57	2 6	23 47	1 37	23 5	1 1	0 4	2 51	23 41	0 13	5 45	1 39	5 15	14 47	11 56	12 24	0 57		n.a.
S 29	2 9	10 5	4 55	12 40	2 54	19 20	2 9	23 52	1 37	23 4	1 1	0 2	2 51	23 41	0 13	5 45	1 39	5 15	14 47	11 54	12 22	0 59		n.a.
S 30	2 32	6 29	4 27	13 0	2 56	19 42	2 12	23 57	1 37	23 4	1 1	0 0	2 51	23 41	0 13	5 44	1 39	5 14	14 47	11 53	12 21	1 1		n.a.
M31	2n55	2n40	3s47	13n17	2n57	20n 3	2n15	24n 1	1n37	23n 4	1n 1	0n 1	2n51	23s41	0s13	5s43	1s39	5s14	14s47	11s51	12s20	1s 3		n.a.

Julian Day Number = 1681670.5, Delta T = 03h15m09s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'06, Lahiri = - 5°27'05 Julian Calendar 1 March 109 BCE == Greg. Calendar 27 Feb. 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

APRIL 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 26 4	8♈14'37	26♍21	27♈44	20♉56	12♊ 9	20♋59	6°R23	22°R11	19♓33	21♈32	0°R40	2♏ 3	25♍45	n.a.	T 1
W 2	12 30 1	9°12'40	8♎11	28°17	22° 2	12°43	21° 1	6♎18	22♐10	19°35	21°33	0♏38	2° 0	25°51	n.a.	W 2
T 3	12 33 57	10°10'42	20° 3	28°44	23° 8	13°17	21° 3	6°14	22°10	19°37	21°35	0°36	1°57	25°58	n.a.	T 3
F 4	12 37 54	11° 8'42	1♏59	29° 7	24°14	13°51	21° 6	6° 9	22°10	19°39	21°36	0°D36	1°53	26° 5	n.a.	F 4
S 5	12 41 50	12° 6'40	14° 2	29°24	25°20	14°25	21° 9	6° 5	22°10	19°41	21°37	0°37	1°50	26°11	n.a.	S 5
S 6	12 45 47	13° 4'37	26°14	29°35	26°25	14°59	21°12	6° 0	22° 9	19°43	21°39	0°38	1°47	26°18	n.a.	S 6
M 7	12 49 43	14° 2'32	8♐38	29°41	27°31	15°33	21°15	5°56	22° 9	19°46	21°40	0°39	1°44	26°25	n.a.	M 7
T 8	12 53 40	15° 0'26	21°17	29°R42	28°36	16° 7	21°18	5°51	22° 9	19°48	21°41	0°40	1°41	26°31	n.a.	T 8
W 9	12 57 36	15°58'18	4♑14	29°38	29°41	16°42	21°21	5°47	22° 8	19°50	21°43	0°41	1°38	26°38	n.a.	W 9
T 10	13 1 33	16°56'09	17°33	29°30	0♊45	17°16	21°25	5°43	22° 8	19°52	21°44	0°R41	1°34	26°45	n.a.	T 10
F 11	13 5 29	17°53'59	1♒15	29°16	1°50	17°51	21°29	5°38	22° 7	19°54	21°45	0°41	1°31	26°51	n.a.	F 11
S 12	13 9 26	18°51'48	15°21	28°59	2°54	18°25	21°33	5°34	22° 6	19°56	21°47	0°40	1°28	26°58	n.a.	S 12
S 13	13 13 23	19°49'35	29°49	28°37	3°58	19° 0	21°37	5°30	22° 6	19°58	21°48	0°39	1°25	27° 5	n.a.	S 13
M14	13 17 19	20°47'21	14♓37	28°12	5° 2	19°34	21°41	5°25	22° 5	20° 0	21°49	0°38	1°22	27°11	n.a.	M14
T 15	13 21 16	21°45'06	29°37	27°44	6° 5	20° 9	21°46	5°21	22° 4	20° 2	21°51	0°37	1°18	27°18	n.a.	T 15
W16	13 25 12	22°42'49	14♈43	27°14	7° 8	20°43	21°50	5°17	22° 3	20° 4	21°52	0°36	1°15	27°25	n.a.	W16
T 17	13 29 9	23°40'31	29°44	26°41	8°11	21°18	21°55	5°13	22° 3	20° 6	21°54	0°D36	1°12	27°31	n.a.	T 17
F 18	13 33 5	24°38'11	14♉33	26° 7	9°14	21°53	22° 0	5° 9	22° 2	20° 8	21°55	0°36	1° 9	27°38	n.a.	F 18
S 19	13 37 2	25°35'50	29° 2	25°32	10°16	22°28	22° 5	5° 5	22° 1	20°10	21°56	0°37	1° 6	27°45	n.a.	S 19
S 20	13 40 58	26°33'28	13♊ 7	24°57	11°18	23° 3	22°10	5° 0	22° 0	20°12	21°58	0°37	1° 3	27°51	n.a.	S 20
M21	13 44 55	27°31'04	26°46	24°23	12°20	23°38	22°16	4°56	21°59	20°14	21°59	0°37	0°59	27°58	n.a.	M21
T 22	13 48 52	28°28'39	9♋59	23°49	13°22	24°13	22°21	4°53	21°58	20°15	22° 0	0°38	0°56	28° 5	n.a.	T 22
W23	13 52 48	29°26'12	22°48	23°17	14°23	24°48	22°27	4°49	21°56	20°17	22° 2	0°38	0°53	28°12	n.a.	W23
T 24	13 56 45	0♌23'43	5♎17	22°48	15°23	25°23	22°33	4°45	21°55	20°19	22° 3	0°38	0°50	28°18	n.a.	T 24
F 25	14 0 41	1°21'13	17°30	22°20	16°24	25°58	22°39	4°41	21°54	20°21	22° 4	0°38	0°47	28°25	n.a.	F 25
S 26	14 4 38	2°18'41	29°31	21°56	17°24	26°33	22°45	4°37	21°53	20°23	22° 6	0°38	0°44	28°32	n.a.	S 26
S 27	14 8 34	3°16'08	11♍24	21°35	18°24	27° 8	22°51	4°34	21°52	20°25	22° 7	0°38	0°40	28°38	n.a.	S 27
M28	14 12 31	4°13'34	23°13	21°18	19°23	27°43	22°57	4°30	21°50	20°26	22° 8	0°38	0°37	28°45	n.a.	M28
T 29	14 16 27	5°10'58	5♎ 2	21° 4	20°22	28°19	23° 4	4°26	21°49	20°28	22°10	0°39	0°34	28°52	n.a.	T 29
W30	14 20 24	6♉ 8'21	16♎54	20♈55	21♊20	28♊54	23♋11	4♎23	21♐47	20♓30	22♈11	0♏39	0♏31	28♍58	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n18	1s15	2s58	13n31	2n56	20n24	2n18	24n 6	1n36	23n 3	1n 1	0n 3	2n51	23s41	0s13	5s42	1s39	5s13	14s47	11s50	12s19	1s 5		n.a.
W 2	3 41	5 7	2 1	13 42	2 55	20 45	2 21	24 10	1 36	23 3	1 1	0 5	2 51	23 41	0 13	5 41	1 39	5 12	14 47	11 49	12 18	1 7		n.a.
T 3	4 4	8 49	0 58	13 50	2 53	21 5	2 24	24 14	1 36	23 2	1 1	0 7	2 51	23 41	0 13	5 40	1 39	5 12	14 47	11 49	12 17	1 9		n.a.
F 4	4 27	12 11	0n 8	13 54	2 49	21 24	2 27	24 18	1 36	23 2	1 1	0 8	2 51	23 41	0 13	5 40	1 39	5 11	14 47	11 49	12 16	1 11		n.a.
S 5	4 50	15 3	1 14	13 56	2 44	21 43	2 29	24 22	1 36	23 1	1 1	0 10	2 51	23 41	0 13	5 39	1 39	5 11	14 46	11 49	12 15	1 13		n.a.
S 6	5 13	17 18	2 17	13 55	2 38	22 2	2 32	24 26	1 35	23 1	1 1	0 12	2 51	23 41	0 13	5 38	1 39	5 10	14 46	11 49	12 14	1 15		n.a.
M 7	5 36	18 46	3 15	13 50	2 31	22 20	2 34	24 29	1 35	23 0	1 1	0 14	2 51	23 41	0 13	5 37	1 39	5 10	14 46	11 50	12 12	1 17		n.a.
T 8	5 59	19 20	4 5	13 43	2 23	22 37	2 37	24 33	1 35	23 0	1 0	0 15	2 51	23 41	0 13	5 36	1 39	5 9	14 46	11 50	12 11	1 19		n.a.
W 9	6 21	18 54	4 44	13 32	2 13	22 54	2 39	24 36	1 35	22 59	1 0	0 17	2 51	23 41	0 13	5 35	1 39	5 8	14 46	11 50	12 10	1 21		n.a.
T 10	6 44	17 26	5 9	13 19	2 2	23 10	2 41	24 39	1 35	22 58	1 0	0 19	2 51	23 41	0 13	5 35	1 39	5 8	14 46	11 51	12 9	1 23		n.a.
F 11	7 6	14 57	5 17	13 3	1 50	23 26	2 44	24 43	1 34	22 58	1 0	0 21	2 51	23 41	0 13	5 34	1 39	5 7	14 46	11 50	12 8	1 25		n.a.
S 12	7 28	11 32	5 7	12 45	1 37	23 41	2 46	24 45	1 34	22 57	1 0	0 22	2 51	23 41	0 13	5 33	1 39	5 7	14 46	11 50	12 7	1 27		n.a.
S 13	7 50	7 20	4 37	12 24	1 23	23 55	2 48	24 48	1 34	22 56	1 0	0 24	2 51	23 41	0 13	5 32	1 39	5 6	14 46	11 50	12 6	1 29		n.a.
M14	8 12	2 37	3 48	12 1	1 9	24 9	2 50	24 51	1 34	22 55	1 0	0 26	2 50	23 41	0 13	5 32	1 39	5 6	14 46	11 49	12 5	1 31		n.a.
T 15	8 34	2n21	2 44	11 37	0 53	24 23	2 52	24 53	1 33	22 55	1 0	0 27	2 50	23 41	0 13	5 31	1 40	5 5	14 46	11 49	12 4	1 33		n.a.
W16	8 56	7 12	1 27	11 11	0 37	24 35	2 53	24 56	1 33	22 54	1 0	0 29	2 50	23 41	0 13	5 30	1 40	5 5	14 46	11 49	12 2	1 35		n.a.
T 17	9 17	11 35	0 5	10 43	0 20	24 48	2 55	24 58	1 33	22 53	1 0	0 30	2 50	23 41	0 13	5 29	1 40	5 4	14 46	11 49	12 1	1 37		n.a.
F 18	9 39	15 10	1s17	10 15	0 3	24 59	2 56	25 0	1 33	22 52	0 59	0 32	2 50	23 41	0 13	5 29	1 40	5 4	14 46	11 49	12 0	1 39		n.a.
S 19	10 0	17 42	2 32	9 46	0s14	25 10	2 58	25 2	1 32	22 51	0 59	0 33	2 50	23 41	0 13	5 28	1 40	5 3	14 46	11 49	11 59	1 41		n.a.
S 20	10 21	19 4	3 35	9 17	0 31	25 20	2 59	25 3	1 32	22 50	0 59	0 35	2 50	23 41	0 13	5 27	1 40	5 3	14 46	11 49	11 58	1 43		n.a.
M21	10 42	19 16	4 24	8 49	0 48	25 30	3 0	25 5	1 32	22 49	0 59	0 36	2 50	23 41	0 13	5 26	1 40	5 2	14 46	11 49	11 57	1 45		n.a.
T 22	11 3	18 23	4 57	8 21	1 5	25 39	3 1	25 6	1 32	22 48	0 59	0 38	2 50	23 41	0 13	5 26	1 40	5 2	14 46	11 49	11 56	1 47		n.a.
W23	11 24	16 35	5 15	7 53	1 21	25 48	3 2	25 8	1 32	22 47	0 59	0 39	2 49	23 41	0 13	5 25	1 40	5 1	14 46	11 49	11 55	1 49		n.a.
T 24	11 44	14 2	5 17	7 28	1 37	25 56	3 3	25 9	1 31	22 46	0 59	0 41	2 49	23 41	0 13	5 24	1 40	5 1	14 46	11 49	11 53	1 51		n.a.
F 25	12 4	10 56	5 4	7 3	1 52	26 3	3 4	25 10	1 31	22 45	0 59	0 42	2 49	23 41	0 13	5 24	1 40	5 0	14 46	11 49	11 52	1 53		n.a.
S 26	12 25	7 26	4 38	6 41	2 7	26 10	3 4	25 10	1 31	22 44	0 59	0 44	2 49	23 41	0 13	5 23	1 40	5 0	14 46	11 49	11 51	1 55		n.a.
S 27	12 44	3 40	4 1	6 21	2 20	26 16	3 5	25 11	1 31	22 43	0 59	0 45	2 49	23 41	0 13	5 22	1 40	4 59	14 46	11 49	11 50	1 57		n.a.
M28	13 4	0s14	3 13	6 3	2 32	26 21	3 5	25 11	1 30	22 41	0 59	0 46	2 49	23 40	0 13	5 22	1 40	4 59	14 46	11 49	11 49	1 59		n.a.
T 29	13 24	4 7	2 18	5 47	2 44	26 26	3 5	25 12	1 30	22 40	0 59	0 47	2 49	23 40	0 13	5 21	1 40	4 59	14 46	11 50	11 48	2 1		n.a.
W30	13n43	7s53	1s16	5n34	2s54	26n30	3n 5	25n12	1n30	22n39	0n58	0n49	2n48	23s40	0s13	5s20	1s40	4s58	14s46	11s50	11s47	2s 3		n.a.

Julian Day Number = 1681701.5, Delta T = 03h15m08s
Ecliptic obliquity = 23°42'23, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°34'01, Lahiri = - 5°27'01 Julian Calendar 1 Apr. 109 BCE == Greg. Calendar 29 March 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

MAY 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 24 21	7♉ 5'43	28♎52	20°R50	22♊18	29♊29	23♋17	4°R19	21°R46	20♓31	22♈12	0°R39	0♏28	29♍ 5	n.a.	T 1
F 2	14 28 17	8° 3'04	10♏58	20°D50	23°16	0♋ 5	23°24	4♎16	21♐44	20°33	22°14	0♏39	0°24	29°11	n.a.	F 2
S 3	14 32 14	9° 0'24	23°13	20♈54	24°13	0°40	23°31	4°13	21°43	20°35	22°15	0°39	0°21	29°18	n.a.	S 3
S 4	14 36 10	9°57'43	5♐40	21° 2	25°10	1°15	23°39	4° 9	21°41	20°36	22°16	0°38	0°18	29°25	n.a.	S 4
M 5	14 40 7	10°55'01	18°19	21°15	26° 6	1°51	23°46	4° 6	21°40	20°38	22°18	0°37	0°15	29°31	n.a.	M 5
T 6	14 44 3	11°52'19	1♑13	21°33	27° 2	2°26	23°53	4° 3	21°38	20°40	22°19	0°35	0°12	29°38	n.a.	T 6
W 7	14 48 0	12°49'36	14°21	21°55	27°57	3° 2	24° 1	4° 0	21°36	20°41	22°20	0°34	0° 9	29°45	n.a.	W 7
T 8	14 51 56	13°46'52	27°46	22°21	28°52	3°38	24° 9	3°57	21°35	20°43	22°21	0°33	0° 5	29°51	n.a.	T 8
F 9	14 55 53	14°44'08	11♒27	22°52	29°46	4°13	24°17	3°54	21°33	20°44	22°23	0°D32	0° 2	29°58	n.a.	F 9
S 10	14 59 50	15°41'24	25°25	23°27	0♋39	4°49	24°25	3°52	21°31	20°46	22°24	0°33	29♎59	0♎ 5	n.a.	S 10
S 11	15 3 46	16°38'39	9♓39	24° 6	1°32	5°25	24°33	3°49	21°29	20°47	22°25	0°33	29°56	0°11	n.a.	S 11
M12	15 7 43	17°35'53	24° 8	24°49	2°25	6° 0	24°41	3°46	21°28	20°49	22°26	0°34	29°53	0°18	n.a.	M12
T 13	15 11 39	18°33'07	8♈46	25°36	3°17	6°36	24°49	3°44	21°26	20°50	22°28	0°35	29°50	0°25	n.a.	T 13
W14	15 15 36	19°30'21	23°31	26°26	4° 8	7°12	24°58	3°41	21°24	20°51	22°29	0°R36	29°46	0°31	n.a.	W14
T 15	15 19 32	20°27'34	8♉14	27°21	4°58	7°48	25° 6	3°39	21°22	20°53	22°30	0°36	29°43	0°38	n.a.	T 15
F 16	15 23 29	21°24'47	22°50	28°19	5°48	8°24	25°15	3°36	21°20	20°54	22°31	0°35	29°40	0°45	n.a.	F 16
S 17	15 27 25	22°21'59	7♊12	29°21	6°37	9° 0	25°24	3°34	21°18	20°55	22°33	0°33	29°37	0°51	n.a.	S 17
S 18	15 31 22	23°19'11	21°15	0♉27	7°26	9°36	25°32	3°32	21°16	20°57	22°34	0°30	29°34	0°58	n.a.	S 18
M19	15 35 19	24°16'22	4♋55	1°36	8°14	10°12	25°41	3°30	21°14	20°58	22°35	0°27	29°30	1° 5	n.a.	M19
T 20	15 39 15	25°13'32	18°11	2°48	9° 0	10°48	25°50	3°28	21°12	20°59	22°36	0°24	29°27	1°11	n.a.	T 20
W21	15 43 12	26°10'42	1♌ 4	4° 4	9°46	11°24	26° 0	3°26	21°10	21° 0	22°37	0°21	29°24	1°18	n.a.	W21
T 22	15 47 8	27° 7'51	13°35	5°24	10°31	12° 0	26° 9	3°24	21° 7	21° 2	22°39	0°19	29°21	1°25	n.a.	T 22
F 23	15 51 5	28° 4'59	25°49	6°46	11°16	12°37	26°18	3°23	21° 5	21° 3	22°40	0°D18	29°18	1°31	n.a.	F 23
S 24	15 55 1	29° 2'07	7♍50	8°12	11°59	13°13	26°28	3°21	21° 3	21° 4	22°41	0°18	29°15	1°38	n.a.	S 24
S 25	15 58 58	29°59'14	19°43	9°41	12°41	13°49	26°37	3°20	21° 1	21° 5	22°42	0°20	29°11	1°45	n.a.	S 25
M26	16 2 54	0♊56'21	1♎32	11°14	13°23	14°25	26°47	3°18	20°59	21° 6	22°43	0°21	29° 8	1°51	n.a.	M26
T 27	16 6 51	1°53'27	13°23	12°50	14° 3	15° 2	26°57	3°17	20°57	21° 7	22°44	0°23	29° 5	1°58	n.a.	T 27
W28	16 10 48	2°50'33	25°19	14°28	14°42	15°38	27° 7	3°16	20°54	21° 8	22°45	0°R24	29° 2	2° 5	n.a.	W28
T 29	16 14 44	3°47'39	7♏24	16°10	15°20	16°15	27°17	3°15	20°52	21° 9	22°46	0°24	28°59	2°11	n.a.	T 29
F 30	16 18 41	4°44'44	19°40	17°55	15°57	16°51	27°27	3°13	20°50	21°10	22°47	0°22	28°55	2°18	n.a.	F 30
S 31	16 22 37	5♊41'50	2♐11	19♉43	16♋33	17♋27	27♋37	3♎13	20♐47	21♓11	22♈48	0♏19	28♎52	2♎25	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	14n 2	11s21	0s10	5n23	3s 4	26n34	3n 5	25n12	1n30	22n38	0n58	0n50	2n48	23s40	0s13	5s20	1s40	4s58	14s46	11s50	11s46	2s 5			n.a.
F 2	14 21	14 23	0n57	5 16	3 12	26 37	3 5	25 12	1 29	22 37	0 58	0 51	2 48	23 40	0 13	5 19	1 40	4 57	14 46	11 50	11 44	2 7			n.a.
S 3	14 39	16 49	2 2	5 10	3 19	26 39	3 5	25 11	1 29	22 35	0 58	0 52	2 48	23 40	0 13	5 18	1 40	4 57	14 46	11 50	11 43	2 9			n.a.
S 4	14 58	18 30	3 2	5 8	3 25	26 41	3 4	25 11	1 29	22 34	0 58	0 53	2 48	23 40	0 13	5 18	1 40	4 56	14 46	11 49	11 42	2 11			n.a.
M 5	15 16	19 17	3 55	5 8	3 30	26 42	3 3	25 10	1 28	22 33	0 58	0 55	2 48	23 40	0 14	5 17	1 40	4 56	14 46	11 49	11 41	2 13			n.a.
T 6	15 34	19 6	4 36	5 11	3 34	26 43	3 2	25 9	1 28	22 31	0 58	0 56	2 47	23 40	0 14	5 17	1 40	4 56	14 46	11 48	11 40	2 15			n.a.
W 7	15 52	17 53	5 4	5 17	3 37	26 43	3 1	25 8	1 28	22 30	0 58	0 57	2 47	23 40	0 14	5 16	1 40	4 55	14 47	11 48	11 39	2 17			n.a.
T 8	16 9	15 40	5 16	5 25	3 39	26 42	3 0	25 7	1 28	22 28	0 58	0 58	2 47	23 40	0 14	5 15	1 40	4 55	14 47	11 47	11 38	2 19			n.a.
F 9	16 26	12 33	5 11	5 35	3 40	26 41	2 59	25 6	1 27	22 27	0 58	0 59	2 47	23 40	0 14	5 15	1 41	4 54	14 47	11 47	11 37	2 21			n.a.
S 10	16 43	8 41	4 47	5 48	3 40	26 39	2 57	25 4	1 27	22 25	0 58	1 0	2 47	23 39	0 14	5 14	1 41	4 54	14 47	11 47	11 35	2 23			n.a.
S 11	17 0	4 14	4 6	6 4	3 39	26 37	2 55	25 2	1 27	22 24	0 58	1 0	2 46	23 39	0 14	5 14	1 41	4 54	14 47	11 48	11 34	2 25			n.a.
M12	17 16	0n31	3 8	6 21	3 37	26 34	2 53	25 1	1 27	22 22	0 58	1 1	2 46	23 39	0 14	5 13	1 41	4 53	14 47	11 48	11 33	2 27			n.a.
T 13	17 32	5 19	1 58	6 41	3 34	26 31	2 51	24 59	1 26	22 21	0 57	1 2	2 46	23 39	0 14	5 13	1 41	4 53	14 47	11 48	11 32	2 29			n.a.
W14	17 48	9 50	0 39	7 2	3 31	26 27	2 49	24 56	1 26	22 19	0 57	1 3	2 46	23 39	0 14	5 12	1 41	4 53	14 47	11 49	11 31	2 31			n.a.
T 15	18 4	13 45	0s42	7 26	3 27	26 23	2 46	24 54	1 26	22 17	0 57	1 4	2 46	23 39	0 14	5 12	1 41	4 52	14 47	11 49	11 30	2 33			n.a.
F 16	18 19	16 45	2 0	7 51	3 22	26 18	2 43	24 51	1 25	22 16	0 57	1 4	2 45	23 39	0 14	5 11	1 41	4 52	14 47	11 48	11 29	2 35			n.a.
S 17	18 34	18 40	3 8	8 19	3 16	26 12	2 40	24 49	1 25	22 14	0 57	1 5	2 45	23 39	0 14	5 11	1 41	4 52	14 48	11 48	11 28	2 37			n.a.
S 18	18 49	19 21	4 4	8 48	3 10	26 7	2 37	24 46	1 25	22 12	0 57	1 6	2 45	23 39	0 14	5 10	1 41	4 51	14 48	11 47	11 26	2 39			n.a.
M19	19 3	18 53	4 44	9 18	3 3	26 0	2 34	24 43	1 25	22 11	0 57	1 6	2 45	23 38	0 14	5 10	1 41	4 51	14 48	11 45	11 25	2 41			n.a.
T 20	19 17	17 23	5 7	9 50	2 55	25 53	2 30	24 40	1 24	22 9	0 57	1 7	2 44	23 38	0 14	5 9	1 41	4 51	14 48	11 44	11 24	2 43			n.a.
W21	19 31	15 2	5 14	10 24	2 47	25 46	2 26	24 36	1 24	22 7	0 57	1 8	2 44	23 38	0 14	5 9	1 41	4 50	14 48	11 43	11 23	2 45			n.a.
T 22	19 44	12 3	5 6	10 58	2 39	25 39	2 22	24 33	1 24	22 5	0 57	1 8	2 44	23 38	0 14	5 9	1 41	4 50	14 48	11 42	11 22	2 47			n.a.
F 23	19 57	8 36	4 44	11 34	2 30	25 31	2 18	24 29	1 23	22 3	0 57	1 8	2 44	23 38	0 14	5 8	1 41	4 50	14 48	11 42	11 21	2 49			n.a.
S 24	20 10	4 52	4 10	12 12	2 20	25 22	2 13	24 25	1 23	22 1	0 57	1 9	2 44	23 38	0 14	5 8	1 41	4 50	14 49	11 42	11 20	2 51			n.a.
S 25	20 22	0 59	3 25	12 50	2 10	25 13	2 8	24 21	1 23	22 0	0 57	1 9	2 43	23 38	0 14	5 7	1 41	4 49	14 49	11 43	11 18	2 53			n.a.
M26	20 34	2s56	2 32	13 28	2 0	25 4	2 3	24 17	1 22	21 58	0 57	1 10	2 43	23 38	0 14	5 7	1 41	4 49	14 49	11 43	11 17	2 55			n.a.
T 27	20 46	6 45	1 32	14 8	1 49	24 54	1 58	24 13	1 22	21 56	0 57	1 10	2 43	23 37	0 14	5 7	1 42	4 49	14 49	11 44	11 16	2 57			n.a.
W28	20 58	10 20	0 28	14 48	1 38	24 45	1 52	24 8	1 22	21 54	0 57	1 10	2 43	23 37	0 14	5 6	1 42	4 49	14 49	11 44	11 15	2 59			n.a.
T 29	21 9	13 32	0n38	15 29	1 26	24 34	1 46	24 3	1 22	21 52	0 57	1 10	2 42	23 37	0 14	5 6	1 42	4 48	14 49	11 44	11 14	3 0			n.a.
F 30	21 19	16 11	1 43	16 10	1 15	24 24	1 40	23 58	1 21	21 50	0 57	1 11	2 42	23 37	0 14	5 6	1 42	4 48	14 50	11 44	11 13	3 2			n.a.
S 31	21n30	18s 8	2n45	16n51	1s 3	24n13	1n34	23n53	1n21	21n48	0n56	1n11	2n42	23s37	0s14	5s 5	1s42	4s48	14s50	11s43	11s12	3s 4			n.a.

Julian Day Number = 1681731.5, Delta T = 03h15m07s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'57, Lahiri = - 5°26'57 Julian Calendar 1 May 109 BCE == Greg. Calendar 28 Apr. 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

JUNE 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 26 34	6♊38'55	14♐57	21♉34	17♋ 7	18♋ 4	27♋47	3°R12	20°R45	21♓12	22♈49	0°R14	28♎49	2♎31	n.a.	S 1
M 2	16 30 30	7°36'01	27°57	23°27	17°40	18°41	27°57	3♎11	20♐43	21°12	22°50	0♏ 9	28°46	2°38	n.a.	M 2
T 3	16 34 27	8°33'06	11♑12	25°24	18°12	19°17	28° 8	3°10	20°40	21°13	22°51	0° 2	28°43	2°45	n.a.	T 3
W 4	16 38 24	9°30'12	24°41	27°22	18°42	19°54	28°18	3°10	20°38	21°14	22°52	29♎57	28°40	2°51	n.a.	W 4
T 5	16 42 20	10°27'18	8♒21	29°23	19°11	20°30	28°29	3° 9	20°36	21°15	22°53	29°52	28°36	2°58	n.a.	T 5
F 6	16 46 17	11°24'24	22°11	1♊26	19°38	21° 7	28°39	3° 9	20°33	21°15	22°54	29°48	28°33	3° 5	n.a.	F 6
S 7	16 50 13	12°21'31	6♓10	3°30	20° 4	21°44	28°50	3° 9	20°31	21°16	22°55	29°D47	28°30	3°11	n.a.	S 7
S 8	16 54 10	13°18'38	20°18	5°36	20°28	22°21	29° 1	3° 8	20°29	21°17	22°56	29°47	28°27	3°18	n.a.	S 8
M 9	16 58 6	14°15'46	4♈31	7°44	20°50	22°57	29°12	3°D 8	20°26	21°17	22°57	29°48	28°24	3°25	n.a.	M 9
T 10	17 2 3	15°12'54	18°49	9°52	21°11	23°34	29°23	3° 8	20°24	21°18	22°58	29°49	28°21	3°31	n.a.	T 10
W11	17 5 59	16°10'03	3♉ 9	12° 1	21°30	24°11	29°34	3° 8	20°21	21°19	22°59	29°R49	28°17	3°38	n.a.	W11
T 12	17 9 56	17° 7'13	17°27	14°10	21°47	24°48	29°45	3° 9	20°19	21°19	23° 0	29°48	28°14	3°45	n.a.	T 12
F 13	17 13 53	18° 4'23	1♊41	16°19	22° 2	25°25	29°56	3° 9	20°17	21°20	23° 1	29°45	28°11	3°51	n.a.	F 13
S 14	17 17 49	19° 1'33	15°44	18°28	22°15	26° 2	0♌ 7	3° 9	20°14	21°20	23° 2	29°39	28° 8	3°58	n.a.	S 14
S 15	17 21 46	19°58'44	29°33	20°37	22°26	26°39	0°18	3°10	20°12	21°20	23° 2	29°32	28° 5	4° 5	n.a.	S 15
M16	17 25 42	20°55'56	13♋ 4	22°44	22°35	27°16	0°30	3°10	20° 9	21°21	23° 3	29°23	28° 1	4°11	n.a.	M16
T 17	17 29 39	21°53'07	26°15	24°51	22°42	27°53	0°41	3°11	20° 7	21°21	23° 4	29°15	27°58	4°18	n.a.	T 17
W18	17 33 35	22°50'20	9♌ 5	26°57	22°47	28°30	0°52	3°12	20° 4	21°22	23° 5	29° 7	27°55	4°25	n.a.	W18
T 19	17 37 32	23°47'32	21°36	29° 2	22°50	29° 8	1° 4	3°13	20° 2	21°22	23° 6	29° 1	27°52	4°31	n.a.	T 19
F 20	17 41 28	24°44'45	3♍50	1♋ 5	22°R50	29°45	1°16	3°14	20° 0	21°22	23° 6	28°56	27°49	4°38	n.a.	F 20
S 21	17 45 25	25°41'58	15°50	3° 7	22°47	0♌22	1°27	3°15	19°57	21°22	23° 7	28°54	27°46	4°45	n.a.	S 21
S 22	17 49 22	26°39'11	27°43	5° 8	22°43	0°59	1°39	3°16	19°55	21°22	23° 8	28°D53	27°42	4°51	n.a.	S 22
M23	17 53 18	27°36'25	9♎32	7° 6	22°36	1°37	1°51	3°17	19°52	21°23	23° 8	28°54	27°39	4°58	n.a.	M23
T 24	17 57 15	28°33'40	21°23	9° 4	22°27	2°14	2° 3	3°19	19°50	21°23	23° 9	28°55	27°36	5° 5	n.a.	T 24
W25	18 1 11	29°30'55	3♏22	10°59	22°15	2°51	2°14	3°20	19°48	21°23	23°10	28°R55	27°33	5°11	n.a.	W25
T 26	18 5 8	0♋28'10	15°33	12°53	22° 1	3°29	2°26	3°22	19°45	21°23	23°10	28°53	27°30	5°18	n.a.	T 26
F 27	18 9 4	1°25'26	27°59	14°45	21°44	4° 6	2°38	3°23	19°43	21°23	23°11	28°50	27°27	5°25	n.a.	F 27
S 28	18 13 1	2°22'43	10♐43	16°36	21°26	4°44	2°50	3°25	19°41	21°R23	23°12	28°44	27°23	5°31	n.a.	S 28
S 29	18 16 57	3°20'01	23°47	18°25	21° 5	5°21	3° 2	3°27	19°38	21°23	23°12	28°36	27°20	5°38	n.a.	S 29
M30	18 20 54	4♋17'20	7♑10	20♋12	20♋42	5♌59	3♌15	3♎29	19♐36	21♓23	23♈13	28♎26	27♎17	5♎45	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n40	19s13	3n39	17n32	0s52	24n 2	1n27	23n48	1n21	21n45	0n56	1n11	2n42	23s37	0s14	5s 5	1s42	4s48	14s50	11s41	11s10	3s 6		n.a.
M 2	21 49	19 18	4 23	18 12	0 40	23 51	1 20	23 43	1 20	21 43	0 56	1 11	2 41	23 36	0 14	5 5	1 42	4 48	14 50	11 39	11 9	3 8		n.a.
T 3	21 59	18 21	4 54	18 52	0 28	23 39	1 12	23 37	1 20	21 41	0 56	1 11	2 41	23 36	0 14	5 5	1 42	4 47	14 50	11 37	11 8	3 10		n.a.
W 4	22 7	16 22	5 9	19 31	0 17	23 27	1 5	23 32	1 20	21 39	0 56	1 11	2 41	23 36	0 14	5 4	1 42	4 47	14 50	11 35	11 7	3 12		n.a.
T 5	22 16	13 27	5 7	20 10	0 5	23 15	0 57	23 26	1 19	21 37	0 56	1 11	2 40	23 36	0 14	5 4	1 42	4 47	14 51	11 33	11 6	3 14		n.a.
F 6	22 24	9 45	4 47	20 47	0n 6	23 3	0 49	23 20	1 19	21 35	0 56	1 11	2 40	23 36	0 14	5 4	1 42	4 47	14 51	11 32	11 5	3 16		n.a.
S 7	22 32	5 29	4 10	21 22	0 17	22 51	0 40	23 13	1 19	21 32	0 56	1 11	2 40	23 36	0 14	5 4	1 42	4 47	14 51	11 31	11 4	3 18		n.a.
S 8	22 39	0 52	3 18	21 56	0 28	22 38	0 31	23 7	1 18	21 30	0 56	1 11	2 40	23 36	0 14	5 3	1 42	4 47	14 51	11 31	11 2	3 20		n.a.
M 9	22 46	3n50	2 13	22 28	0 38	22 26	0 22	23 1	1 18	21 28	0 56	1 10	2 39	23 35	0 14	5 3	1 42	4 46	14 51	11 32	11 1	3 22		n.a.
T 10	22 53	8 22	0 59	22 57	0 47	22 13	0 12	22 54	1 18	21 25	0 56	1 10	2 39	23 35	0 14	5 3	1 42	4 46	14 52	11 32	11 0	3 24		n.a.
W11	22 59	12 25	0s18	23 25	0 56	22 0	0 2	22 47	1 17	21 23	0 56	1 10	2 39	23 35	0 14	5 3	1 42	4 46	14 52	11 32	10 59	3 26		n.a.
T 12	23 4	15 44	1 34	23 49	1 5	21 47	0s 8	22 40	1 17	21 21	0 56	1 10	2 39	23 35	0 14	5 3	1 43	4 46	14 52	11 32	10 58	3 28		n.a.
F 13	23 10	18 4	2 43	24 12	1 12	21 34	0 19	22 33	1 17	21 18	0 56	1 9	2 38	23 35	0 14	5 3	1 43	4 46	14 52	11 30	10 57	3 30		n.a.
S 14	23 15	19 15	3 42	24 31	1 19	21 22	0 29	22 26	1 16	21 16	0 56	1 9	2 38	23 35	0 14	5 3	1 43	4 46	14 53	11 28	10 56	3 32		n.a.
S 15	23 19	19 16	4 26	24 48	1 26	21 9	0 41	22 18	1 16	21 13	0 56	1 8	2 38	23 34	0 14	5 2	1 43	4 46	14 53	11 26	10 54	3 34		n.a.
M16	23 24	18 10	4 54	25 2	1 31	20 56	0 52	22 11	1 16	21 11	0 56	1 8	2 38	23 34	0 14	5 2	1 43	4 46	14 53	11 23	10 53	3 35		n.a.
T 17	23 27	16 7	5 6	25 13	1 36	20 43	1 4	22 3	1 15	21 8	0 56	1 7	2 37	23 34	0 14	5 2	1 43	4 46	14 53	11 20	10 52	3 37		n.a.
W18	23 31	13 20	5 2	25 21	1 41	20 30	1 16	21 55	1 15	21 6	0 56	1 7	2 37	23 34	0 14	5 2	1 43	4 46	14 53	11 17	10 51	3 39		n.a.
T 19	23 33	10 0	4 43	25 26	1 44	20 17	1 29	21 47	1 15	21 3	0 56	1 6	2 37	23 34	0 14	5 2	1 43	4 46	14 54	11 15	10 50	3 41		n.a.
F 20	23 36	6 18	4 12	25 29	1 47	20 5	1 42	21 38	1 14	21 1	0 56	1 5	2 37	23 33	0 14	5 2	1 43	4 46	14 54	11 13	10 49	3 43		n.a.
S 21	23 38	2 25	3 30	25 29	1 49	19 52	1 55	21 30	1 14	20 58	0 56	1 5	2 36	23 33	0 14	5 2	1 43	4 46	14 54	11 12	10 48	3 45		n.a.
S 22	23 40	1s31	2 39	25 27	1 50	19 40	2 8	21 21	1 14	20 55	0 56	1 4	2 36	23 33	0 14	5 2	1 43	4 45	14 54	11 12	10 46	3 47		n.a.
M23	23 41	5 23	1 42	25 22	1 51	19 28	2 21	21 13	1 13	20 53	0 56	1 3	2 36	23 33	0 14	5 2	1 43	4 45	14 55	11 12	10 45	3 49		n.a.
T 24	23 42	9 3	0 40	25 14	1 51	19 16	2 35	21 4	1 13	20 50	0 56	1 3	2 35	23 33	0 14	5 2	1 43	4 45	14 55	11 12	10 44	3 51		n.a.
W25	23 42	12 24	0n24	25 5	1 51	19 4	2 49	20 55	1 13	20 47	0 56	1 2	2 35	23 33	0 14	5 2	1 43	4 45	14 55	11 13	10 43	3 53		n.a.
T 26	23 42	15 17	1 28	24 53	1 49	18 53	3 3	20 46	1 12	20 44	0 56	1 1	2 35	23 32	0 14	5 2	1 43	4 45	14 55	11 12	10 42	3 55		n.a.
F 27	23 42	17 31	2 29	24 40	1 48	18 41	3 17	20 36	1 12	20 42	0 56	1 0	2 35	23 32	0 14	5 2	1 43	4 45	14 56	11 11	10 41	3 57		n.a.
S 28	23 41	18 56	3 24	24 24	1 45	18 30	3 31	20 27	1 12	20 39	0 56	0 59	2 34	23 32	0 14	5 2	1 44	4 46	14 56	11 9	10 40	3 59		n.a.
S 29	23 40	19 24	4 9	24 7	1 43	18 19	3 45	20 17	1 11	20 36	0 56	0 58	2 34	23 32	0 14	5 2	1 44	4 46	14 56	11 6	10 38	4 0		n.a.
M30	23n38	18s48	4n43	23n48	1n39	18n 9	3s59	20n 8	1n11	20n33	0n56	0n57	2n34	23s32	0s14	5s 2	1s44	4s46	14s56	11s 2	10s37	4s 2		n.a.

Julian Day Number = 1681762.5, Delta T = 03h15m06s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'53, Lahiri = - 5°26'53 Julian Calendar 1 June 109 BCE == Greg. Calendar 29 May 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

JULY 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 24 51	5♋14'39	20♉50	21♋57	20°R16	6♌37	3♌27	3♎31	19°R34	21°R23	23♈13	28°R15	27♎14	5♎51	n.a.	T 1
W 2	18 28 47	6°12'00	4♒44	23°41	19♋49	7°14	3°39	3°33	19♐31	21♓23	23°14	28♎ 5	27°11	5°58	n.a.	W 2
T 3	18 32 44	7° 9'21	18°47	25°23	19°20	7°52	3°51	3°35	19°29	21°23	23°14	27°56	27° 7	6° 4	n.a.	T 3
F 4	18 36 40	8° 6'44	2♓56	27° 4	18°49	8°30	4° 3	3°38	19°27	21°22	23°15	27°50	27° 4	6°11	n.a.	F 4
S 5	18 40 37	9° 4'08	17° 7	28°42	18°17	9° 7	4°16	3°40	19°25	21°22	23°15	27°46	27° 1	6°18	n.a.	S 5
S 6	18 44 33	10° 1'34	1♈18	0♌20	17°43	9°45	4°28	3°42	19°22	21°22	23°16	27°44	26°58	6°24	n.a.	S 6
M 7	18 48 30	10°59'01	15°26	1°55	17° 9	10°23	4°41	3°45	19°20	21°22	23°16	27°D44	26°55	6°31	n.a.	M 7
T 8	18 52 26	11°56'29	29°31	3°29	16°33	11° 1	4°53	3°48	19°18	21°21	23°16	27°R44	26°52	6°38	n.a.	T 8
W 9	18 56 23	12°53'59	13♉31	5° 2	15°57	11°39	5° 6	3°50	19°16	21°21	23°17	27°43	26°48	6°44	n.a.	W 9
T 10	19 0 20	13°51'31	27°27	6°32	15°20	12°17	5°18	3°53	19°14	21°20	23°17	27°40	26°45	6°51	n.a.	T 10
F 11	19 4 16	14°49'04	11♊15	8° 1	14°43	12°55	5°31	3°56	19°12	21°20	23°17	27°35	26°42	6°58	n.a.	F 11
S 12	19 8 13	15°46'38	24°54	9°29	14° 6	13°33	5°43	3°59	19°10	21°20	23°18	27°27	26°39	7° 4	n.a.	S 12
S 13	19 12 9	16°44'14	8♋21	10°54	13°29	14°11	5°56	4° 2	19° 7	21°19	23°18	27°16	26°36	7°11	n.a.	S 13
M14	19 16 6	17°41'51	21°35	12°18	12°53	14°49	6° 9	4° 5	19° 5	21°19	23°18	27° 4	26°33	7°18	n.a.	M14
T 15	19 20 2	18°39'29	4♌32	13°40	12°17	15°27	6°21	4° 9	19° 3	21°18	23°19	26°51	26°29	7°24	n.a.	T 15
W16	19 23 59	19°37'09	17°13	15° 1	11°42	16° 6	6°34	4°12	19° 1	21°18	23°19	26°39	26°26	7°31	n.a.	W16
T 17	19 27 56	20°34'50	29°38	16°19	11° 8	16°44	6°47	4°16	18°59	21°17	23°19	26°29	26°23	7°38	n.a.	T 17
F 18	19 31 52	21°32'32	11♍48	17°36	10°36	17°22	6°59	4°19	18°58	21°16	23°19	26°22	26°20	7°44	n.a.	F 18
S 19	19 35 49	22°30'16	23°46	18°51	10° 5	18° 0	7°12	4°23	18°56	21°16	23°19	26°17	26°17	7°51	n.a.	S 19
S 20	19 39 45	23°28'00	5♎37	20° 3	9°36	18°39	7°25	4°26	18°54	21°15	23°20	26°14	26°13	7°58	n.a.	S 20
M21	19 43 42	24°25'46	17°25	21°14	9° 9	19°17	7°38	4°30	18°52	21°14	23°20	26°13	26°10	8° 4	n.a.	M21
T 22	19 47 38	25°23'33	29°16	22°23	8°43	19°56	7°51	4°34	18°50	21°13	23°20	26°13	26° 7	8°11	n.a.	T 22
W23	19 51 35	26°21'22	11♏15	23°29	8°20	20°34	8° 4	4°38	18°48	21°13	23°20	26°13	26° 4	8°18	n.a.	W23
T 24	19 55 31	27°19'12	23°27	24°33	7°58	21°13	8°17	4°42	18°47	21°12	23°20	26°11	26° 1	8°24	n.a.	T 24
F 25	19 59 28	28°17'03	5♐57	25°34	7°39	21°51	8°29	4°46	18°45	21°11	23°20	26° 7	25°58	8°31	n.a.	F 25
S 26	20 3 24	29°14'55	18°49	26°33	7°22	22°30	8°42	4°50	18°43	21°10	23°20	26° 1	25°54	8°38	n.a.	S 26
S 27	20 7 21	0♌12'50	2♉ 6	27°29	7° 8	23° 9	8°55	4°54	18°42	21° 9	23°R20	25°52	25°51	8°44	n.a.	S 27
M28	20 11 18	1°10'45	15°46	28°23	6°56	23°47	9° 8	4°59	18°40	21° 8	23°20	25°41	25°48	8°51	n.a.	M28
T 29	20 15 14	2° 8'42	29°48	29°13	6°46	24°26	9°21	5° 3	18°39	21° 7	23°20	25°29	25°45	8°57	n.a.	T 29
W30	20 19 11	3° 6'41	14♒ 6	29°59	6°39	25° 5	9°34	5° 7	18°37	21° 6	23°20	25°18	25°42	9° 4	n.a.	W30
T 31	20 23 7	4♌ 4'42	28♒36	0♍43	6♋34	25♌44	9♌47	5♎12	18♐36	21♓ 5	23♈20	25♎ 8	25♎39	9♎11	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23n36	17s 7	5n 0	23n28	1n35	17n59	4s13	19n58	1n10	20n30	0n56	0n56	2n34	23s32	0s14	5s 2	1s44	4s46	14s57	10s58	10s36	4s 4			n.a.
W 2	23 34	14 26	5 1	23 6	1 31	17 49	4 27	19 48	1 10	20 27	0 56	0 55	2 33	23 31	0 14	5 3	1 44	4 46	14 57	10 55	10 35	4 6			n.a.
T 3	23 31	10 52	4 43	22 43	1 26	17 40	4 41	19 38	1 10	20 24	0 56	0 54	2 33	23 31	0 14	5 3	1 44	4 46	14 57	10 51	10 34	4 8			n.a.
F 4	23 27	6 41	4 8	22 18	1 21	17 30	4 54	19 27	1 9	20 22	0 56	0 53	2 33	23 31	0 14	5 3	1 44	4 46	14 58	10 49	10 33	4 10			n.a.
S 5	23 24	2 6	3 18	21 53	1 16	17 22	5 8	19 17	1 9	20 19	0 56	0 51	2 33	23 31	0 14	5 3	1 44	4 46	14 58	10 48	10 31	4 12			n.a.
S 6	23 19	2n35	2 16	21 26	1 10	17 13	5 20	19 6	1 9	20 16	0 56	0 50	2 32	23 31	0 14	5 3	1 44	4 46	14 58	10 47	10 30	4 14			n.a.
M 7	23 15	7 8	1 5	20 59	1 3	17 6	5 33	18 56	1 8	20 13	0 56	0 49	2 32	23 30	0 14	5 3	1 44	4 46	14 58	10 47	10 29	4 16			n.a.
T 8	23 10	11 17	0s 9	20 31	0 57	16 58	5 44	18 45	1 8	20 10	0 56	0 48	2 32	23 30	0 14	5 3	1 44	4 46	14 59	10 47	10 28	4 18			n.a.
W 9	23 4	14 45	1 23	20 1	0 50	16 51	5 56	18 34	1 7	20 6	0 56	0 46	2 32	23 30	0 14	5 4	1 44	4 46	14 59	10 47	10 27	4 20			n.a.
T 10	22 59	17 22	2 31	19 32	0 42	16 45	6 6	18 23	1 7	20 3	0 56	0 45	2 31	23 30	0 14	5 4	1 44	4 47	14 59	10 46	10 26	4 21			n.a.
F 11	22 52	18 56	3 29	19 1	0 35	16 39	6 17	18 11	1 7	20 0	0 56	0 44	2 31	23 30	0 14	5 4	1 44	4 47	15 0	10 44	10 24	4 23			n.a.
S 12	22 46	19 22	4 14	18 31	0 27	16 33	6 26	18 0	1 6	19 57	0 56	0 42	2 31	23 30	0 14	5 4	1 44	4 47	15 0	10 41	10 23	4 25			n.a.
S 13	22 39	18 42	4 45	17 59	0 19	16 28	6 35	17 48	1 6	19 54	0 56	0 41	2 31	23 29	0 14	5 5	1 44	4 47	15 0	10 37	10 22	4 27			n.a.
M14	22 31	17 2	4 59	17 28	0 10	16 24	6 43	17 37	1 6	19 51	0 56	0 39	2 30	23 29	0 14	5 5	1 45	4 47	15 0	10 32	10 21	4 29			n.a.
T 15	22 23	14 31	4 58	16 56	0 2	16 20	6 50	17 25	1 5	19 48	0 56	0 38	2 30	23 29	0 14	5 5	1 45	4 47	15 1	10 28	10 20	4 31			n.a.
W16	22 15	11 22	4 42	16 24	0s 7	16 17	6 56	17 13	1 5	19 44	0 56	0 36	2 30	23 29	0 14	5 5	1 45	4 47	15 1	10 23	10 19	4 33			n.a.
T 17	22 7	7 47	4 13	15 51	0 17	16 14	7 2	17 1	1 4	19 41	0 56	0 34	2 30	23 29	0 14	5 6	1 45	4 48	15 1	10 20	10 17	4 35			n.a.
F 18	21 58	3 57	3 32	15 19	0 26	16 11	7 7	16 49	1 4	19 38	0 56	0 33	2 29	23 29	0 14	5 6	1 45	4 48	15 1	10 17	10 16	4 37			n.a.
S 19	21 48	0 1	2 43	14 47	0 35	16 10	7 11	16 37	1 4	19 35	0 56	0 31	2 29	23 29	0 14	5 6	1 45	4 48	15 2	10 15	10 15	4 39			n.a.
S 20	21 38	3s53	1 47	14 15	0 45	16 9	7 14	16 24	1 3	19 31	0 56	0 29	2 29	23 28	0 14	5 7	1 45	4 48	15 2	10 14	10 14	4 40			n.a.
M21	21 28	7 38	0 47	13 43	0 55	16 8	7 16	16 12	1 3	19 28	0 56	0 28	2 29	23 28	0 14	5 7	1 45	4 49	15 2	10 14	10 13	4 42			n.a.
T 22	21 18	11 5	0n16	13 11	1 5	16 8	7 18	15 59	1 2	19 25	0 56	0 26	2 28	23 28	0 14	5 7	1 45	4 49	15 3	10 14	10 12	4 44			n.a.
W23	21 7	14 7	1 19	12 40	1 15	16 8	7 19	15 46	1 2	19 21	0 56	0 24	2 28	23 28	0 14	5 8	1 45	4 49	15 3	10 14	10 11	4 46			n.a.
T 24	20 56	16 36	2 19	12 9	1 25	16 9	7 19	15 33	1 2	19 18	0 56	0 22	2 28	23 28	0 14	5 8	1 45	4 49	15 3	10 13	10 9	4 48			n.a.
F 25	20 44	18 21	3 14	11 39	1 35	16 10	7 19	15 20	1 1	19 15	0 56	0 21	2 28	23 28	0 14	5 8	1 45	4 49	15 3	10 12	10 8	4 50			n.a.
S 26	20 32	19 14	4 1	11 9	1 45	16 12	7 18	15 7	1 1	19 11	0 56	0 19	2 28	23 27	0 14	5 9	1 45	4 50	15 4	10 9	10 7	4 52			n.a.
S 27	20 20	19 6	4 36	10 40	1 55	16 15	7 17	14 54	1 0	19 8	0 56	0 17	2 27	23 27	0 14	5 9	1 45	4 50	15 4	10 6	10 6	4 54			n.a.
M28	20 7	17 51	4 56	10 12	2 6	16 17	7 15	14 41	1 0	19 4	0 56	0 15	2 27	23 27	0 14	5 10	1 45	4 50	15 4	10 2	10 5	4 55			n.a.
T 29	19 54	15 32	5 0	9 45	2 16	16 20	7 12	14 27	0 59	19 1	0 56	0 13	2 27	23 27	0 14	5 10	1 45	4 51	15 5	9 58	10 4	4 57			n.a.
W30	19 41	12 14	4 45	9 19	2 26	16 24	7 9	14 14	0 59	18 58	0 56	0 11	2 27	23 27	0 14	5 11	1 45	4 51	15 5	9 53	10 2	4 59			n.a.
T 31	19n27	8s10	4n12	8n54	2s36	16n28	7s 5	14n 0	0n59	18n54	0n56	0n 9	2n27	23s27	0s14	5s11	1s45	4s51	15s 5	9s50	10s 1	5s 1			n.a.

Julian Day Number = 1681792.5, Delta T = 03h15m05s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'49, Lahiri = - 5°26'48 Julian Calendar 1 July 109 BCE == Greg. Calendar 28 June 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

AUGUST 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 27 4	5♌ 2'44	13♓10	1♍23	6°R32	26♌22	10♌ 0	5♎17	18°R34	21°R 4	23°R20	25°R 0	25♎35	9♎17	n.a.	F 1
S 2	20 31 0	6° 0'49	27°42	1°59	6°D32	27° 1	10°13	5°21	18♐33	21♓ 3	23♈20	24♎56	25°32	9°24	n.a.	S 2
S 3	20 34 57	6°58'55	12♈ 6	2°31	6♋34	27°40	10°26	5°26	18°32	21° 2	23°20	24°54	25°29	9°31	n.a.	S 3
M 4	20 38 53	7°57'04	26°21	2°58	6°39	28°19	10°39	5°31	18°30	21° 1	23°19	24°D53	25°26	9°37	n.a.	M 4
T 5	20 42 50	8°55'15	10♉24	3°20	6°45	28°58	10°52	5°36	18°29	21° 0	23°19	24°R53	25°23	9°44	n.a.	T 5
W 6	20 46 47	9°53'27	24°15	3°38	6°54	29°37	11° 5	5°41	18°28	20°59	23°19	24°53	25°19	9°51	n.a.	W 6
T 7	20 50 43	10°51'43	7♊54	3°50	7° 5	0♍16	11°19	5°46	18°27	20°58	23°19	24°50	25°16	9°57	n.a.	T 7
F 8	20 54 40	11°50'00	21°22	3°57	7°19	0°56	11°32	5°51	18°25	20°56	23°19	24°45	25°13	10° 4	n.a.	F 8
S 9	20 58 36	12°48'19	4♋39	3°R57	7°34	1°35	11°45	5°56	18°24	20°55	23°18	24°37	25°10	10°11	n.a.	S 9
S 10	21 2 33	13°46'41	17°43	3°52	7°51	2°14	11°58	6° 1	18°23	20°54	23°18	24°27	25° 7	10°17	n.a.	S 10
M11	21 6 29	14°45'04	0♌36	3°40	8°10	2°53	12°11	6° 6	18°22	20°53	23°18	24°15	25° 4	10°24	n.a.	M11
T 12	21 10 26	15°43'30	13°16	3°22	8°31	3°33	12°24	6°11	18°21	20°51	23°17	24° 3	25° 0	10°31	n.a.	T 12
W13	21 14 22	16°41'57	25°43	2°56	8°54	4°12	12°37	6°17	18°20	20°50	23°17	23°52	24°57	10°37	n.a.	W13
T 14	21 18 19	17°40'27	7♍57	2°25	9°19	4°52	12°50	6°22	18°20	20°49	23°17	23°42	24°54	10°44	n.a.	T 14
F 15	21 22 16	18°38'58	20° 0	1°46	9°45	5°31	13° 3	6°28	18°19	20°47	23°16	23°34	24°51	10°51	n.a.	F 15
S 16	21 26 12	19°37'31	1♎54	1° 2	10°13	6°10	13°16	6°33	18°18	20°46	23°16	23°29	24°48	10°57	n.a.	S 16
S 17	21 30 9	20°36'06	13°43	0°12	10°42	6°50	13°29	6°39	18°17	20°45	23°15	23°27	24°45	11° 4	n.a.	S 17
M18	21 34 5	21°34'43	25°29	29♌16	11°13	7°30	13°42	6°45	18°17	20°43	23°15	23°D26	24°41	11°10	n.a.	M18
T 19	21 38 2	22°33'22	7♏18	28°17	11°45	8° 9	13°55	6°50	18°16	20°42	23°15	23°27	24°38	11°17	n.a.	T 19
W20	21 41 58	23°32'02	19°15	27°15	12°18	8°49	14° 8	6°56	18°15	20°40	23°14	23°R28	24°35	11°24	n.a.	W20
T 21	21 45 55	24°30'44	1♐26	26°10	12°53	9°29	14°21	7° 2	18°15	20°39	23°14	23°28	24°32	11°30	n.a.	T 21
F 22	21 49 51	25°29'28	13°55	25° 6	13°30	10° 9	14°34	7° 8	18°14	20°38	23°13	23°26	24°29	11°37	n.a.	F 22
S 23	21 53 48	26°28'14	26°47	24° 3	14° 7	10°48	14°47	7°14	18°14	20°36	23°12	23°22	24°25	11°44	n.a.	S 23
S 24	21 57 45	27°27'02	10♑ 5	23° 3	14°46	11°28	14°59	7°20	18°14	20°35	23°12	23°16	24°22	11°50	n.a.	S 24
M25	22 1 41	28°25'52	23°52	22° 7	15°26	12° 8	15°12	7°26	18°13	20°33	23°11	23° 8	24°19	11°57	n.a.	M25
T 26	22 5 38	29°24'43	8♒ 5	21°18	16° 7	12°48	15°25	7°32	18°13	20°31	23°11	23° 0	24°16	12° 4	n.a.	T 26
W27	22 9 34	0♍23'37	22°39	20°36	16°49	13°28	15°38	7°38	18°13	20°30	23°10	22°51	24°13	12°10	n.a.	W27
T 28	22 13 31	1°22'32	7♓30	20° 2	17°32	14° 8	15°51	7°44	18°13	20°28	23°10	22°44	24°10	12°17	n.a.	T 28
F 29	22 17 27	2°21'30	22°27	19°37	18°16	14°48	16° 4	7°50	18°12	20°27	23° 9	22°38	24° 6	12°24	n.a.	F 29
S 30	22 21 24	3°20'29	7♈22	19°22	19° 1	15°28	16°16	7°57	18°12	20°25	23° 8	22°35	24° 3	12°30	n.a.	S 30
S 31	22 25 20	4♍19'32	22♈ 9	19°D18	19♋47	16♍ 9	16♌29	8♎ 3	18°D12	20♓24	23♈ 8	22°D34	24♎ 0	12♎37	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊		☊		⚸		⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl		decl		decl		decl	lat	
F 1	19n13	3s35	3n22	8n31	2s46	16n32	7s 1	13n47	0n58	18n51	0n57	0n 7	2n26	23s27	0s14	5s11	1s46	4s51	15s 5	9s47		10s 0		5s 3				n.a.
S 2	18 59	1n12	2 19	8 9	2 56	16 36	6 57	13 33	0 58	18 47	0 57	0 5	2 26	23 27	0 14	5 12	1 46	4 52	15 6	9 45		9 59		5 5				n.a.
S 3	18 44	5 52	1 7	7 49	3 6	16 41	6 52	13 19	0 57	18 44	0 57	0 3	2 26	23 26	0 14	5 12	1 46	4 52	15 6	9 45		9 58		5 7				n.a.
M 4	18 29	10 10	0s 8	7 30	3 15	16 46	6 47	13 5	0 57	18 40	0 57	0 1	2 26	23 26	0 14	5 13	1 46	4 52	15 6	9 44		9 56		5 9				n.a.
T 5	18 14	13 49	1 21	7 14	3 24	16 51	6 42	12 51	0 57	18 36	0 57	0s 1	2 25	23 26	0 14	5 13	1 46	4 53	15 7	9 45		9 55		5 10				n.a.
W 6	17 58	16 38	2 29	7 0	3 32	16 56	6 36	12 36	0 56	18 33	0 57	0 4	2 25	23 26	0 14	5 14	1 46	4 53	15 7	9 44		9 54		5 12				n.a.
T 7	17 42	18 28	3 27	6 48	3 40	17 1	6 30	12 22	0 56	18 29	0 57	0 6	2 25	23 26	0 14	5 14	1 46	4 53	15 7	9 43		9 53		5 14				n.a.
F 8	17 26	19 13	4 13	6 39	3 47	17 7	6 24	12 7	0 55	18 26	0 57	0 8	2 25	23 26	0 14	5 15	1 46	4 54	15 7	9 41		9 52		5 16				n.a.
S 9	17 9	18 53	4 44	6 32	3 54	17 12	6 17	11 53	0 55	18 22	0 57	0 10	2 25	23 26	0 14	5 15	1 46	4 54	15 8	9 39		9 51		5 18				n.a.
S 10	16 52	17 33	5 0	6 29	3 59	17 18	6 11	11 38	0 54	18 18	0 57	0 12	2 25	23 26	0 14	5 16	1 46	4 54	15 8	9 35		9 49		5 20				n.a.
M11	16 35	15 21	5 0	6 29	4 4	17 24	6 4	11 24	0 54	18 15	0 57	0 15	2 24	23 26	0 14	5 16	1 46	4 55	15 8	9 30		9 48		5 22				n.a.
T 12	16 18	12 28	4 46	6 32	4 8	17 29	5 57	11 9	0 53	18 11	0 57	0 17	2 24	23 26	0 14	5 17	1 46	4 55	15 9	9 26		9 47		5 23				n.a.
W13	16 0	9 3	4 17	6 39	4 10	17 35	5 50	10 54	0 53	18 7	0 57	0 19	2 24	23 25	0 14	5 18	1 46	4 55	15 9	9 22		9 46		5 25				n.a.
T 14	15 42	5 19	3 38	6 50	4 11	17 40	5 43	10 39	0 53	18 4	0 57	0 22	2 24	23 25	0 14	5 18	1 46	4 56	15 9	9 18		9 45		5 27				n.a.
F 15	15 24	1 25	2 49	7 4	4 10	17 46	5 36	10 24	0 52	18 0	0 57	0 24	2 24	23 25	0 14	5 19	1 46	4 56	15 9	9 15		9 44		5 29				n.a.
S 16	15 6	2s29	1 53	7 22	4 8	17 51	5 29	10 9	0 52	17 56	0 57	0 26	2 23	23 25	0 14	5 19	1 46	4 57	15 10	9 13		9 42		5 31				n.a.
S 17	14 47	6 16	0 52	7 44	4 3	17 56	5 21	9 53	0 51	17 53	0 58	0 29	2 23	23 25	0 14	5 20	1 46	4 57	15 10	9 12		9 41		5 33				n.a.
M18	14 28	9 47	0n11	8 9	3 57	18 1	5 14	9 38	0 51	17 49	0 58	0 31	2 23	23 25	0 14	5 20	1 46	4 57	15 10	9 12		9 40		5 35				n.a.
T 19	14 9	12 57	1 14	8 37	3 49	18 6	5 6	9 23	0 50	17 45	0 58	0 34	2 23	23 25	0 14	5 21	1 46	4 58	15 10	9 12		9 39		5 36				n.a.
W20	13 49	15 35	2 14	9 8	3 39	18 10	4 59	9 7	0 50	17 42	0 58	0 36	2 23	23 25	0 14	5 22	1 46	4 58	15 11	9 13		9 38		5 38				n.a.
T 21	13 30	17 35	3 9	9 42	3 27	18 15	4 51	8 52	0 49	17 38	0 58	0 38	2 23	23 25	0 14	5 22	1 46	4 59	15 11	9 13		9 37		5 40				n.a.
F 22	13 10	18 48	3 57	10 17	3 13	18 19	4 43	8 36	0 49	17 34	0 58	0 41	2 23	23 25	0 14	5 23	1 46	4 59	15 11	9 12		9 35		5 42				n.a.
S 23	12 50	19 6	4 34	10 52	2 57	18 23	4 36	8 20	0 48	17 30	0 58	0 43	2 22	23 25	0 14	5 24	1 46	4 59	15 11	9 10		9 34		5 44				n.a.
S 24	12 30	18 21	4 59	11 28	2 40	18 26	4 28	8 5	0 48	17 27	0 58	0 46	2 22	23 25	0 14	5 24	1 46	5 0	15 12	9 8		9 33		5 46				n.a.
M25	12 9	16 32	5 6	12 4	2 22	18 30	4 20	7 49	0 47	17 23	0 58	0 49	2 22	23 25	0 14	5 25	1 46	5 0	15 12	9 5		9 32		5 47				n.a.
T 26	11 48	13 41	4 56	12 38	2 3	18 33	4 12	7 33	0 47	17 19	0 58	0 51	2 22	23 25	0 14	5 25	1 47	5 1	15 12	9 2		9 31		5 49				n.a.
W27	11 27	9 55	4 26	13 10	1 43	18 35	4 5	7 17	0 47	17 15	0 58	0 54	2 22	23 25	0 14	5 26	1 47	5 1	15 12	8 59		9 29		5 51				n.a.
T 28	11 6	5 29	3 39	13 39	1 23	18 37	3 57	7 1	0 46	17 12	0 59	0 56	2 22	23 25	0 14	5 27	1 47	5 2	15 12	8 56		9 28		5 53				n.a.
F 29	10 45	0 39	2 35	14 6	1 3	18 39	3 49	6 45	0 46	17 8	0 59	0 59	2 22	23 25	0 14	5 27	1 47	5 2	15 13	8 54		9 27		5 55				n.a.
S 30	10 24	4n12	1 21	14 29	0 44	18 41	3 42	6 29	0 45	17 4	0 59	1 1	2 21	23 25	0 14	5 28	1 47	5 2	15 13	8 53		9 26		5 57				n.a.
S 31	10n 2	8n45	0n 2	14n48	0s25	18n42	3s34	6n13	0n45	17n 0	0n59	1s 4	2n21	23s25	0s14	5s29	1s47	5s 3	15s13	8s53		9s25		5s58				n.a.

Julian Day Number = 1681823.5, Delta T = 03h15m04s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'45, Lahiri = - 5°26'44 Julian Calendar 1 Aug. 109 BCE == Greg. Calendar 29 July 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

SEPTEMBER 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 29 17	5♍18'36	6♉40	19♌24	20♋34	16♍49	16♌42	8♎ 9	18♐12	20°R22	23°R 7	22♎35	23♎57	12♎44	n.a.	M 1
T 2	22 33 13	6°17'43	20°53	19°40	21°22	17°29	16°54	8°16	18°12	20♓20	23♈ 6	22°36	23°54	12°50	n.a.	T 2
W 3	22 37 10	7°16'53	4♊47	20° 6	22°11	18° 9	17° 7	8°22	18°13	20°19	23° 5	22°R37	23°50	12°57	n.a.	W 3
T 4	22 41 7	8°16'05	18°21	20°41	23° 0	18°50	17°20	8°28	18°13	20°17	23° 5	22°37	23°47	13° 4	n.a.	T 4
F 5	22 45 3	9°15'19	1♋38	21°26	23°51	19°30	17°32	8°35	18°13	20°16	23° 4	22°34	23°44	13°10	n.a.	F 5
S 6	22 49 0	10°14'36	14°39	22°18	24°42	20°11	17°45	8°41	18°13	20°14	23° 3	22°30	23°41	13°17	n.a.	S 6
S 7	22 52 56	11°13'55	27°26	23°19	25°33	20°51	17°57	8°48	18°14	20°12	23° 2	22°24	23°38	13°23	n.a.	S 7
M 8	22 56 53	12°13'17	10♌ 0	24°26	26°26	21°32	18°10	8°55	18°14	20°11	23° 2	22°17	23°35	13°30	n.a.	M 8
T 9	23 0 49	13°12'41	22°22	25°39	27°19	22°12	18°22	9° 1	18°14	20° 9	23° 1	22°10	23°31	13°37	n.a.	T 9
W10	23 4 46	14°12'06	4♍34	26°57	28°13	22°53	18°35	9° 8	18°15	20° 7	23° 0	22° 3	23°28	13°43	n.a.	W10
T 11	23 8 42	15°11'35	16°37	28°21	29° 7	23°34	18°47	9°15	18°15	20° 6	22°59	21°57	23°25	13°50	n.a.	T 11
F 12	23 12 39	16°11'05	28°33	29°48	0♌ 2	24°15	18°59	9°21	18°16	20° 4	22°58	21°53	23°22	13°57	n.a.	F 12
S 13	23 16 35	17°10'37	10♎22	1♍18	0°58	24°55	19°12	9°28	18°17	20° 2	22°57	21°50	23°19	14° 3	n.a.	S 13
S 14	23 20 32	18°10'12	22° 9	2°52	1°54	25°36	19°24	9°35	18°17	20° 0	22°56	21°D49	23°16	14°10	n.a.	S 14
M15	23 24 29	19° 9'48	3♏55	4°27	2°51	26°17	19°36	9°42	18°18	19°59	22°55	21°50	23°12	14°17	n.a.	M15
T 16	23 28 25	20° 9'26	15°44	6° 5	3°48	26°58	19°48	9°49	18°19	19°57	22°55	21°52	23° 9	14°23	n.a.	T 16
W17	23 32 22	21° 9'06	27°41	7°44	4°46	27°39	20° 0	9°55	18°20	19°55	22°54	21°54	23° 6	14°30	n.a.	W17
T 18	23 36 18	22° 8'49	9♐50	9°24	5°44	28°20	20°12	10° 2	18°21	19°54	22°53	21°55	23° 3	14°37	n.a.	T 18
F 19	23 40 15	23° 8'33	22°16	11° 5	6°43	29° 1	20°24	10° 9	18°22	19°52	22°52	21°R56	23° 0	14°43	n.a.	F 19
S 20	23 44 11	24° 8'18	5♑ 3	12°46	7°42	29°42	20°36	10°16	18°23	19°50	22°51	21°55	22°56	14°50	n.a.	S 20
S 21	23 48 8	25° 8'06	18°16	14°28	8°42	0♎24	20°48	10°23	18°24	19°49	22°50	21°53	22°53	14°56	n.a.	S 21
M22	23 52 4	26° 7'55	1♒57	16°11	9°42	1° 5	21° 0	10°30	18°25	19°47	22°49	21°51	22°50	15° 3	n.a.	M22
T 23	23 56 1	27° 7'46	16° 6	17°53	10°43	1°46	21°11	10°37	18°26	19°45	22°48	21°47	22°47	15°10	n.a.	T 23
W24	23 59 58	28° 7'39	0♓41	19°35	11°44	2°27	21°23	10°44	18°27	19°44	22°47	21°44	22°44	15°16	n.a.	W24
T 25	0 3 54	29° 7'34	15°37	21°17	12°45	3° 9	21°35	10°51	18°28	19°42	22°46	21°41	22°41	15°23	n.a.	T 25
F 26	0 7 51	0♎ 7'31	0♈46	22°59	13°47	3°50	21°46	10°58	18°30	19°40	22°45	21°39	22°37	15°30	n.a.	F 26
S 27	0 11 47	1° 7'29	15°58	24°40	14°49	4°32	21°58	11° 5	18°31	19°39	22°44	21°D38	22°34	15°36	n.a.	S 27
S 28	0 15 44	2° 7'30	1♉ 4	26°22	15°51	5°13	22° 9	11°12	18°32	19°37	22°43	21°38	22°31	15°43	n.a.	S 28
M29	0 19 40	3° 7'33	15°56	28° 2	16°54	5°55	22°20	11°19	18°34	19°36	22°42	21°39	22°28	15°50	n.a.	M29
T 30	0 23 37	4♎ 7'38	0♊26	29♍43	17♌58	6♎36	22♌32	11♎26	18♐35	19♓34	22♈41	21♎40	22♎25	15♎56	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n40	12n42	1s16	15n 3	0s 7	18n42	3s27	5n56	0n44	16n57	0n59	1s 7	2n21	23s25	0s14	5s29	1s47	5s 3	15s13	8s53	9s24	6s 0		n.a.
T 2	9 18	15 49	2 27	15 14	0n10	18 43	3 19	5 40	0 44	16 53	0 59	1 9	2 21	23 25	0 14	5 30	1 47	5 4	15 14	8 53	9 22	6 2		n.a.
W 3	8 56	17 55	3 28	15 21	0 26	18 42	3 12	5 24	0 43	16 49	0 59	1 12	2 21	23 25	0 14	5 31	1 47	5 4	15 14	8 54	9 21	6 4		n.a.
T 4	8 34	18 56	4 16	15 23	0 40	18 42	3 4	5 7	0 43	16 45	0 59	1 15	2 21	23 25	0 14	5 31	1 47	5 5	15 14	8 53	9 20	6 6		n.a.
F 5	8 11	18 52	4 50	15 22	0 53	18 41	2 57	4 51	0 42	16 41	0 59	1 17	2 21	23 25	0 14	5 32	1 47	5 5	15 14	8 53	9 19	6 8		n.a.
S 6	7 49	17 48	5 7	15 16	1 5	18 39	2 49	4 34	0 42	16 38	1 0	1 20	2 21	23 25	0 14	5 33	1 47	5 6	15 14	8 51	9 18	6 9		n.a.
S 7	7 26	15 52	5 9	15 6	1 16	18 37	2 42	4 18	0 41	16 34	1 0	1 23	2 20	23 25	0 14	5 33	1 47	5 6	15 15	8 49	9 16	6 11		n.a.
M 8	7 3	13 12	4 55	14 52	1 25	18 34	2 35	4 1	0 41	16 30	1 0	1 25	2 20	23 25	0 14	5 34	1 47	5 7	15 15	8 46	9 15	6 13		n.a.
T 9	6 40	9 59	4 28	14 34	1 33	18 31	2 27	3 44	0 40	16 26	1 0	1 28	2 20	23 25	0 14	5 35	1 47	5 7	15 15	8 43	9 14	6 15		n.a.
W10	6 17	6 23	3 49	14 14	1 40	18 28	2 20	3 28	0 40	16 23	1 0	1 31	2 20	23 25	0 14	5 35	1 47	5 7	15 15	8 41	9 13	6 17		n.a.
T 11	5 54	2 34	3 0	13 50	1 46	18 24	2 13	3 11	0 39	16 19	1 0	1 34	2 20	23 25	0 14	5 36	1 47	5 8	15 15	8 39	9 12	6 18		n.a.
F 12	5 31	1s18	2 4	13 23	1 50	18 19	2 6	2 54	0 39	16 15	1 0	1 36	2 20	23 25	0 14	5 37	1 47	5 8	15 15	8 37	9 10	6 20		n.a.
S 13	5 7	5 6	1 2	12 54	1 53	18 14	1 59	2 37	0 38	16 11	1 0	1 39	2 20	23 25	0 14	5 37	1 47	5 9	15 16	8 36	9 9	6 22		n.a.
S 14	4 44	8 41	0n 2	12 22	1 56	18 8	1 52	2 20	0 38	16 7	1 1	1 42	2 20	23 25	0 14	5 38	1 47	5 9	15 16	8 36	9 8	6 24		n.a.
M15	4 20	11 56	1 6	11 48	1 57	18 2	1 45	2 4	0 37	16 4	1 1	1 45	2 20	23 25	0 14	5 39	1 47	5 10	15 16	8 36	9 7	6 26		n.a.
T 16	3 56	14 42	2 8	11 13	1 58	17 55	1 39	1 47	0 37	16 0	1 1	1 47	2 20	23 25	0 14	5 39	1 47	5 10	15 16	8 37	9 6	6 27		n.a.
W17	3 33	16 52	3 4	10 35	1 58	17 48	1 32	1 30	0 36	15 56	1 1	1 50	2 20	23 25	0 14	5 40	1 47	5 11	15 16	8 37	9 5	6 29		n.a.
T 18	3 9	18 19	3 54	9 56	1 57	17 40	1 25	1 13	0 36	15 53	1 1	1 53	2 19	23 25	0 14	5 41	1 47	5 11	15 16	8 38	9 3	6 31		n.a.
F 19	2 45	18 55	4 34	9 16	1 56	17 32	1 19	0 56	0 35	15 49	1 1	1 56	2 19	23 25	0 14	5 41	1 47	5 12	15 17	8 38	9 2	6 33		n.a.
S 20	2 21	18 35	5 1	8 35	1 54	17 23	1 12	0 39	0 34	15 45	1 1	1 59	2 19	23 26	0 14	5 42	1 47	5 12	15 17	8 38	9 1	6 35		n.a.
S 21	1 57	17 15	5 14	7 53	1 51	17 14	1 6	0 22	0 34	15 41	1 1	2 1	2 19	23 26	0 14	5 43	1 47	5 13	15 17	8 37	9 0	6 36		n.a.
M22	1 33	14 55	5 10	7 10	1 48	17 4	1 0	0 5	0 33	15 38	1 2	2 4	2 19	23 26	0 14	5 43	1 47	5 13	15 17	8 36	8 59	6 38		n.a.
T 23	1 9	11 37	4 47	6 27	1 44	16 53	0 53	0s13	0 33	15 34	1 2	2 7	2 19	23 26	0 14	5 44	1 47	5 14	15 17	8 35	8 57	6 40		n.a.
W24	0 45	7 32	4 5	5 42	1 41	16 42	0 47	0 30	0 32	15 30	1 2	2 10	2 19	23 26	0 14	5 45	1 47	5 14	15 17	8 34	8 56	6 42		n.a.
T 25	0 21	2 53	3 6	4 58	1 36	16 31	0 41	0 47	0 32	15 27	1 2	2 13	2 19	23 26	0 14	5 45	1 47	5 15	15 17	8 32	8 55	6 44		n.a.
F 26	0s 3	2n 2	1 53	4 13	1 32	16 19	0 35	1 4	0 31	15 23	1 2	2 16	2 19	23 26	0 14	5 46	1 47	5 15	15 17	8 32	8 54	6 45		n.a.
S 27	0 27	6 50	0 31	3 28	1 27	16 6	0 30	1 21	0 31	15 20	1 2	2 18	2 19	23 26	0 14	5 47	1 47	5 15	15 17	8 31	8 53	6 47		n.a.
S 28	0 51	11 10	0s52	2 42	1 21	15 53	0 24	1 38	0 30	15 16	1 3	2 21	2 19	23 26	0 14	5 47	1 47	5 16	15 18	8 31	8 51	6 49		n.a.
M29	1 15	14 42	2 11	1 57	1 16	15 39	0 18	1 55	0 30	15 12	1 3	2 24	2 19	23 26	0 14	5 48	1 47	5 16	15 18	8 32	8 50	6 51		n.a.
T 30	1s39	17n14	3s19	1n11	1n10	15n25	0s13	2s12	0n29	15n 9	1n 3	2s27	2n19	23s27	0s14	5s49	1s47	5s17	15s18	8s32	8s49	6s52		n.a.

Julian Day Number = 1681854.5, Delta T = 03h15m03s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'40, Lahiri = - 5°26'40 Julian Calendar 1 Sept. 109 BCE == Greg. Calendar 29 Aug. 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

OCTOBER 109 BCE (-108) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 27 33	5♎ 7'46	14♊32	1♎23	19♌ 1	7♎18	22♌43	11♎33	18♐37	19°R32	22°R39	21♎41	22♎21	16♎ 3	n.a.	W 1
T 2	0 31 30	6° 7'56	28°14	3° 2	20° 5	8° 0	22°54	11°40	18°38	19♓31	22♈38	21°42	22°18	16°10	n.a.	T 2
F 3	0 35 27	7° 8'08	11♋31	4°41	21°10	8°41	23° 5	11°48	18°40	19°29	22°37	21°R42	22°15	16°16	n.a.	F 3
S 4	0 39 23	8° 8'22	24°27	6°20	22°14	9°23	23°16	11°55	18°42	19°28	22°36	21°41	22°12	16°23	n.a.	S 4
S 5	0 43 20	9° 8'38	7♌ 4	7°58	23°19	10° 5	23°27	12° 2	18°43	19°26	22°35	21°40	22° 9	16°30	n.a.	S 5
M 6	0 47 16	10° 8'56	19°26	9°36	24°24	10°47	23°38	12° 9	18°45	19°24	22°34	21°39	22° 6	16°36	n.a.	M 6
T 7	0 51 13	11° 9'16	1♍36	11°14	25°30	11°29	23°48	12°16	18°47	19°23	22°33	21°37	22° 2	16°43	n.a.	T 7
W 8	0 55 9	12° 9'39	13°36	12°51	26°36	12°11	23°59	12°23	18°49	19°21	22°32	21°36	21°59	16°49	n.a.	W 8
T 9	0 59 6	13°10'03	25°30	14°27	27°42	12°53	24°10	12°30	18°51	19°20	22°31	21°34	21°56	16°56	n.a.	T 9
F 10	1 3 2	14°10'29	7♎19	16° 4	28°48	13°35	24°20	12°37	18°53	19°18	22°30	21°34	21°53	17° 3	n.a.	F 10
S 11	1 6 59	15°10'57	19° 6	17°39	29°54	14°17	24°30	12°45	18°55	19°17	22°28	21°D33	21°50	17° 9	n.a.	S 11
S 12	1 10 55	16°11'26	0♏53	19°15	1♍ 1	15° 0	24°41	12°52	18°57	19°15	22°27	21°34	21°47	17°16	n.a.	S 12
M13	1 14 52	17°11'58	12°43	20°50	2° 8	15°42	24°51	12°59	18°59	19°14	22°26	21°34	21°43	17°23	n.a.	M13
T 14	1 18 49	18°12'30	24°37	22°25	3°15	16°24	25° 1	13° 6	19° 1	19°12	22°25	21°34	21°40	17°29	n.a.	T 14
W15	1 22 45	19°13'05	6♐39	23°59	4°23	17° 7	25°11	13°13	19° 3	19°11	22°24	21°35	21°37	17°36	n.a.	W15
T 16	1 26 42	20°13'41	18°51	25°34	5°31	17°49	25°21	13°20	19° 5	19°10	22°23	21°35	21°34	17°43	n.a.	T 16
F 17	1 30 38	21°14'18	1♑18	27° 8	6°39	18°32	25°31	13°27	19° 8	19° 8	22°22	21°R35	21°31	17°49	n.a.	F 17
S 18	1 34 35	22°14'57	14° 2	28°41	7°47	19°14	25°40	13°34	19°10	19° 7	22°21	21°35	21°27	17°56	n.a.	S 18
S 19	1 38 31	23°15'37	27° 8	0♏15	8°55	19°57	25°50	13°41	19°12	19° 6	22°19	21°D35	21°24	18° 3	n.a.	S 19
M20	1 42 28	24°16'18	10♒38	1°48	10° 3	20°39	25°59	13°48	19°15	19° 4	22°18	21°35	21°21	18° 9	n.a.	M20
T 21	1 46 24	25°17'00	24°34	3°21	11°12	21°22	26° 9	13°55	19°17	19° 3	22°17	21°35	21°18	18°16	n.a.	T 21
W22	1 50 21	26°17'43	8♓55	4°54	12°21	22° 5	26°18	14° 2	19°20	19° 2	22°16	21°36	21°15	18°22	n.a.	W22
T 23	1 54 18	27°18'28	23°39	6°26	13°30	22°47	26°27	14° 9	19°22	19° 1	22°15	21°36	21°12	18°29	n.a.	T 23
F 24	1 58 14	28°19'14	8♈41	7°59	14°39	23°30	26°36	14°16	19°25	18°59	22°14	21°37	21° 8	18°36	n.a.	F 24
S 25	2 2 11	29°20'01	23°54	9°31	15°49	24°13	26°45	14°23	19°27	18°58	22°13	21°R37	21° 5	18°42	n.a.	S 25
S 26	2 6 7	0♏20'49	9♉ 6	11° 3	16°58	24°56	26°54	14°30	19°30	18°57	22°12	21°36	21° 2	18°49	n.a.	S 26
M27	2 10 4	1°21'39	24° 9	12°35	18° 8	25°39	27° 3	14°37	19°32	18°56	22°10	21°36	20°59	18°56	n.a.	M27
T 28	2 14 0	2°22'30	8♊55	14° 7	19°18	26°22	27°11	14°44	19°35	18°55	22° 9	21°34	20°56	19° 2	n.a.	T 28
W29	2 17 57	3°23'23	23°16	15°38	20°28	27° 5	27°20	14°51	19°38	18°54	22° 8	21°33	20°53	19° 9	n.a.	W29
T 30	2 21 53	4°24'18	7♋10	17° 9	21°38	27°48	27°28	14°58	19°40	18°52	22° 7	21°32	20°49	19°16	n.a.	T 30
F 31	2 25 50	5♏25'13	20♋36	18♏40	22♍49	28♎31	27♌37	15♎ 5	19♐43	18♓51	22♈ 6	21♎30	20♎46	19♎22	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	2s 4	18n37	4s13	0n26	1n 5	15n10	0s 7	2s30	0n29	15n 5	1n 3	2s30	2n19	23s27	0s14	5s49	1s47	5s17	15s18	8s33	8s48	6s54			n.a.
T 2	2 28	18 51	4 51	0s20	0 59	14 55	0 2	2 47	0 28	15 2	1 3	2 32	2 19	23 27	0 14	5 50	1 47	5 18	15 18	8 33	8 47	6 56			n.a.
F 3	2 52	18 1	5 12	1 5	0 53	14 40	0n 3	3 4	0 27	14 58	1 3	2 35	2 19	23 27	0 14	5 50	1 47	5 18	15 18	8 33	8 45	6 58			n.a.
S 4	3 16	16 16	5 17	1 50	0 46	14 23	0 9	3 21	0 27	14 55	1 4	2 38	2 19	23 27	0 14	5 51	1 47	5 19	15 18	8 33	8 44	7 0			n.a.
S 5	3 40	13 47	5 6	2 35	0 40	14 7	0 14	3 38	0 26	14 51	1 4	2 41	2 19	23 27	0 14	5 52	1 47	5 19	15 18	8 32	8 43	7 1			n.a.
M 6	4 4	10 43	4 41	3 20	0 34	13 49	0 19	3 55	0 26	14 48	1 4	2 44	2 19	23 27	0 14	5 52	1 47	5 19	15 18	8 32	8 42	7 3			n.a.
T 7	4 28	7 14	4 3	4 4	0 27	13 32	0 23	4 12	0 25	14 44	1 4	2 47	2 19	23 28	0 14	5 53	1 47	5 20	15 18	8 31	8 41	7 5			n.a.
W 8	4 52	3 31	3 16	4 49	0 21	13 14	0 28	4 29	0 25	14 41	1 4	2 49	2 19	23 28	0 14	5 53	1 47	5 20	15 18	8 31	8 39	7 7			n.a.
T 9	5 15	0s20	2 20	5 33	0 14	12 55	0 33	4 47	0 24	14 38	1 4	2 52	2 19	23 28	0 14	5 54	1 47	5 21	15 18	8 30	8 38	7 8			n.a.
F 10	5 39	4 8	1 18	6 16	0 8	12 36	0 37	5 4	0 23	14 34	1 5	2 55	2 19	23 28	0 14	5 55	1 47	5 21	15 18	8 30	8 37	7 10			n.a.
S 11	6 3	7 46	0 14	6 59	0 1	12 17	0 42	5 21	0 23	14 31	1 5	2 58	2 19	23 28	0 14	5 55	1 47	5 22	15 18	8 30	8 36	7 12			n.a.
S 12	6 26	11 6	0n52	7 42	0s 6	11 57	0 46	5 38	0 22	14 28	1 5	3 1	2 19	23 28	0 14	5 56	1 47	5 22	15 18	8 30	8 35	7 14			n.a.
M13	6 50	14 0	1 55	8 25	0 12	11 37	0 50	5 55	0 22	14 24	1 5	3 3	2 19	23 29	0 14	5 56	1 47	5 22	15 18	8 30	8 33	7 15			n.a.
T 14	7 13	16 19	2 54	9 6	0 19	11 16	0 54	6 12	0 21	14 21	1 5	3 6	2 19	23 29	0 14	5 57	1 47	5 23	15 18	8 30	8 32	7 17			n.a.
W15	7 36	17 57	3 46	9 48	0 25	10 55	0 58	6 29	0 21	14 18	1 6	3 9	2 19	23 29	0 14	5 57	1 47	5 23	15 18	8 30	8 31	7 19			n.a.
T 16	7 59	18 47	4 28	10 29	0 32	10 33	1 2	6 46	0 20	14 15	1 6	3 12	2 19	23 29	0 14	5 58	1 47	5 24	15 18	8 30	8 30	7 21			n.a.
F 17	8 22	18 43	4 59	11 9	0 38	10 11	1 6	7 2	0 19	14 12	1 6	3 14	2 19	23 29	0 14	5 58	1 46	5 24	15 18	8 30	8 29	7 22			n.a.
S 18	8 45	17 44	5 16	11 49	0 44	9 49	1 10	7 19	0 19	14 9	1 6	3 17	2 19	23 29	0 14	5 59	1 46	5 24	15 18	8 30	8 27	7 24			n.a.
S 19	9 8	15 47	5 17	12 28	0 51	9 27	1 13	7 36	0 18	14 5	1 6	3 20	2 19	23 30	0 14	5 59	1 46	5 25	15 18	8 30	8 26	7 26			n.a.
M20	9 31	12 56	5 1	13 7	0 57	9 4	1 17	7 53	0 18	14 2	1 7	3 23	2 19	23 30	0 14	6 0	1 46	5 25	15 18	8 30	8 25	7 28			n.a.
T 21	9 53	9 17	4 27	13 45	1 3	8 40	1 20	8 10	0 17	13 59	1 7	3 25	2 19	23 30	0 14	6 0	1 46	5 26	15 18	8 30	8 24	7 29			n.a.
W22	10 16	4 59	3 36	14 23	1 9	8 17	1 23	8 26	0 16	13 56	1 7	3 28	2 19	23 30	0 14	6 1	1 46	5 26	15 18	8 31	8 23	7 31			n.a.
T 23	10 38	0 16	2 29	14 59	1 15	7 53	1 26	8 43	0 16	13 53	1 7	3 31	2 19	23 30	0 14	6 1	1 46	5 26	15 18	8 31	8 21	7 33			n.a.
F 24	11 0	4n34	1 11	15 35	1 20	7 28	1 29	8 59	0 15	13 50	1 8	3 33	2 19	23 31	0 14	6 2	1 46	5 27	15 18	8 31	8 20	7 35			n.a.
S 25	11 22	9 11	0s13	16 11	1 26	7 4	1 32	9 16	0 15	13 48	1 8	3 36	2 19	23 31	0 14	6 2	1 46	5 27	15 18	8 31	8 19	7 36			n.a.
S 26	11 43	13 11	1 36	16 45	1 31	6 39	1 35	9 32	0 14	13 45	1 8	3 39	2 19	23 31	0 14	6 3	1 46	5 27	15 18	8 31	8 18	7 38			n.a.
M27	12 5	16 15	2 51	17 19	1 36	6 14	1 37	9 49	0 13	13 42	1 8	3 41	2 19	23 31	0 14	6 3	1 46	5 28	15 18	8 31	8 17	7 40			n.a.
T 28	12 26	18 11	3 54	17 52	1 41	5 48	1 40	10 5	0 13	13 39	1 8	3 44	2 19	23 32	0 14	6 4	1 46	5 28	15 18	8 30	8 15	7 42			n.a.
W29	12 47	18 53	4 40	18 24	1 46	5 23	1 42	10 21	0 12	13 36	1 9	3 47	2 19	23 32	0 14	6 4	1 46	5 28	15 18	8 30	8 14	7 43			n.a.
T 30	13 8	18 23	5 8	18 55	1 51	4 57	1 44	10 38	0 12	13 34	1 9	3 49	2 19	23 32	0 14	6 4	1 46	5 29	15 17	8 29	8 13	7 45			n.a.
F 31	13s28	16n53	5s17	19s25	1s55	4n31	1n47	10s54	0n11	13n31	1n 9	3s52	2n19	23s32	0s14	6s 5	1s46	5s29	15s17	8s29	8s12	7s47			n.a.

Julian Day Number = 1681884.5, Delta T = 03h15m02s
Ecliptic obliquity = 23°42'22, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'36, Lahiri = - 5°26'36 Julian Calendar 1 Oct. 109 BCE == Greg. Calendar 28 Sept. 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

NOVEMBER 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 29 47	6♏26'11	3♌36	20♏11	23♍59	29♎14	27♌45	15♎12	19♐46	18°R50	22°R 5	21°D30	20♎43	19♎29	n.a.	S 1
S 2	2 33 43	7°27'09	16°12	21°42	25°10	29°57	27°53	15°18	19°49	18♓49	22♈ 4	21♎30	20°40	19°36	n.a.	S 2
M 3	2 37 40	8°28'09	28°30	23°12	26°21	0♏41	28° 0	15°25	19°52	18°48	22° 3	21°31	20°37	19°42	n.a.	M 3
T 4	2 41 36	9°29'10	10♍34	24°42	27°32	1°24	28° 8	15°32	19°55	18°47	22° 2	21°32	20°33	19°49	n.a.	T 4
W 5	2 45 33	10°30'13	22°28	26°11	28°43	2° 7	28°16	15°39	19°58	18°47	22° 1	21°34	20°30	19°56	n.a.	W 5
T 6	2 49 29	11°31'17	4♎16	27°40	29°54	2°51	28°23	15°45	20° 1	18°46	21°59	21°36	20°27	20° 2	n.a.	T 6
F 7	2 53 26	12°32'21	16° 3	29° 8	1♎ 5	3°34	28°31	15°52	20° 4	18°45	21°58	21°R36	20°24	20° 9	n.a.	F 7
S 8	2 57 22	13°33'27	27°50	0♐36	2°17	4°18	28°38	15°59	20° 7	18°44	21°57	21°36	20°21	20°15	n.a.	S 8
S 9	3 1 19	14°34'34	9♏41	2° 2	3°28	5° 1	28°45	16° 5	20°10	18°43	21°56	21°35	20°18	20°22	n.a.	S 9
M10	3 5 16	15°35'42	21°38	3°28	4°40	5°45	28°52	16°12	20°13	18°42	21°55	21°33	20°14	20°29	n.a.	M10
T 11	3 9 12	16°36'50	3♐43	4°53	5°52	6°29	28°58	16°18	20°16	18°42	21°54	21°29	20°11	20°35	n.a.	T 11
W12	3 13 9	17°38'00	15°57	6°16	7° 4	7°12	29° 5	16°25	20°19	18°41	21°53	21°24	20° 8	20°42	n.a.	W12
T 13	3 17 5	18°39'10	28°21	7°38	8°15	7°56	29°11	16°31	20°22	18°40	21°52	21°20	20° 5	20°49	n.a.	T 13
F 14	3 21 2	19°40'20	10♑57	8°58	9°28	8°40	29°18	16°37	20°25	18°40	21°51	21°15	20° 2	20°55	n.a.	F 14
S 15	3 24 58	20°41'31	23°48	10°16	10°40	9°24	29°24	16°44	20°28	18°39	21°50	21°11	19°58	21° 2	n.a.	S 15
S 16	3 28 55	21°42'42	6♒54	11°31	11°52	10° 8	29°30	16°50	20°32	18°39	21°49	21° 9	19°55	21° 9	n.a.	S 16
M17	3 32 51	22°43'54	20°18	12°43	13° 4	10°52	29°36	16°56	20°35	18°38	21°48	21°D 8	19°52	21°15	n.a.	M17
T 18	3 36 48	23°45'06	4♓ 1	13°52	14°16	11°36	29°41	17° 3	20°38	18°38	21°47	21° 8	19°49	21°22	n.a.	T 18
W19	3 40 45	24°46'17	18° 5	14°57	15°29	12°20	29°47	17° 9	20°41	18°37	21°46	21°10	19°46	21°29	n.a.	W19
T 20	3 44 41	25°47'30	2♈28	15°58	16°41	13° 4	29°52	17°15	20°45	18°37	21°46	21°11	19°43	21°35	n.a.	T 20
F 21	3 48 38	26°48'42	17° 9	16°53	17°54	13°48	29°57	17°21	20°48	18°36	21°45	21°R12	19°39	21°42	n.a.	F 21
S 22	3 52 34	27°49'54	2♉ 2	17°42	19° 7	14°32	0♍ 2	17°27	20°51	18°36	21°44	21°12	19°36	21°48	n.a.	S 22
S 23	3 56 31	28°51'07	17° 2	18°24	20°19	15°16	0° 7	17°33	20°55	18°36	21°43	21°10	19°33	21°55	n.a.	S 23
M24	4 0 27	29°52'20	1♊59	18°59	21°32	16° 0	0°12	17°39	20°58	18°35	21°42	21° 5	19°30	22° 2	n.a.	M24
T 25	4 4 24	0♐53'33	16°45	19°25	22°45	16°45	0°17	17°45	21° 2	18°35	21°41	21° 0	19°27	22° 8	n.a.	T 25
W26	4 8 20	1°54'47	1♋12	19°41	23°58	17°29	0°21	17°50	21° 5	18°35	21°40	20°53	19°24	22°15	n.a.	W26
T 27	4 12 17	2°56'01	15°14	19°R47	25°11	18°13	0°25	17°56	21° 8	18°35	21°40	20°46	19°20	22°22	n.a.	T 27
F 28	4 16 14	3°57'15	28°49	19°42	26°24	18°58	0°29	18° 2	21°12	18°34	21°39	20°40	19°17	22°28	n.a.	F 28
S 29	4 20 10	4°58'30	11♌56	19°25	27°37	19°42	0°33	18° 7	21°15	18°34	21°38	20°35	19°14	22°35	n.a.	S 29
S 30	4 24 7	5♐59'45	24♌38	18♐57	28♎50	20♏27	0♍37	18♎13	21♐19	18♓34	21♈37	20♎33	19♎11	22♎42	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13 s49	14n32	5 s10	19 s54	1 s59	4n 4	1n49	11 s10	0n10	13n28	1n 9	3 s54	2n19	23 s32	0 s14	6 s 5	1 s46	5 s29	15 s17	8 s28	8 s11	7 s49		n.a.
S 2	14 9	11 34	4 48	20 22	2 3	3 38	1 51	11 26	0 10	13 26	1 10	3 57	2 20	23 33	0 14	6 5	1 46	5 30	15 17	8 28	8 9	7 50		n.a.
M 3	14 29	8 10	4 14	20 49	2 6	3 11	1 52	11 42	0 9	13 23	1 10	4 0	2 20	23 33	0 14	6 6	1 46	5 30	15 17	8 29	8 8	7 52		n.a.
T 4	14 49	4 29	3 28	21 14	2 9	2 44	1 54	11 58	0 8	13 21	1 10	4 2	2 20	23 33	0 14	6 6	1 46	5 30	15 17	8 29	8 7	7 54		n.a.
W 5	15 8	0 40	2 34	21 39	2 12	2 17	1 56	12 13	0 8	13 18	1 10	4 5	2 20	23 33	0 14	6 6	1 46	5 30	15 17	8 30	8 6	7 55		n.a.
T 6	15 27	3 s10	1 35	22 2	2 14	1 50	1 57	12 29	0 7	13 16	1 11	4 7	2 20	23 33	0 14	6 7	1 46	5 31	15 17	8 30	8 5	7 57		n.a.
F 7	15 46	6 51	0 31	22 24	2 16	1 22	1 59	12 45	0 7	13 14	1 11	4 10	2 20	23 34	0 14	6 7	1 46	5 31	15 17	8 31	8 3	7 59		n.a.
S 8	16 5	10 17	0n34	22 45	2 18	0 55	2 0	13 0	0 6	13 11	1 11	4 12	2 20	23 34	0 14	6 7	1 46	5 31	15 16	8 31	8 2	8 1		n.a.
S 9	16 23	13 20	1 38	23 4	2 19	0 27	2 1	13 15	0 5	13 9	1 11	4 15	2 20	23 34	0 14	6 8	1 46	5 31	15 16	8 30	8 1	8 2		n.a.
M10	16 41	15 50	2 38	23 22	2 20	0 s 1	2 2	13 31	0 5	13 7	1 12	4 17	2 20	23 34	0 14	6 8	1 46	5 32	15 16	8 29	8 0	8 4		n.a.
T 11	16 59	17 40	3 32	23 38	2 20	0 28	2 3	13 46	0 4	13 5	1 12	4 19	2 20	23 35	0 14	6 8	1 46	5 32	15 16	8 28	7 58	8 6		n.a.
W12	17 17	18 43	4 16	23 53	2 19	0 56	2 4	14 1	0 3	13 3	1 12	4 22	2 20	23 35	0 14	6 8	1 45	5 32	15 16	8 26	7 57	8 7		n.a.
T 13	17 34	18 53	4 49	24 6	2 18	1 24	2 5	14 16	0 3	13 1	1 12	4 24	2 21	23 35	0 14	6 9	1 45	5 32	15 16	8 24	7 56	8 9		n.a.
F 14	17 51	18 7	5 8	24 17	2 16	1 52	2 5	14 31	0 2	12 59	1 13	4 27	2 21	23 35	0 14	6 9	1 45	5 32	15 15	8 23	7 55	8 11		n.a.
S 15	18 7	16 27	5 13	24 26	2 14	2 20	2 6	14 46	0 1	12 57	1 13	4 29	2 21	23 36	0 14	6 9	1 45	5 33	15 15	8 21	7 54	8 12		n.a.
S 16	18 24	13 53	5 2	24 34	2 10	2 48	2 6	15 0	0 1	12 55	1 13	4 31	2 21	23 36	0 14	6 9	1 45	5 33	15 15	8 20	7 52	8 14		n.a.
M17	18 40	10 33	4 34	24 40	2 6	3 17	2 7	15 15	0 0	12 53	1 14	4 34	2 21	23 36	0 14	6 9	1 45	5 33	15 15	8 20	7 51	8 16		n.a.
T 18	18 55	6 35	3 50	24 43	2 1	3 45	2 7	15 29	0 s 0	12 51	1 14	4 36	2 21	23 36	0 14	6 9	1 45	5 33	15 15	8 20	7 50	8 18		n.a.
W19	19 10	2 8	2 51	24 45	1 55	4 13	2 7	15 43	0 1	12 50	1 14	4 38	2 21	23 37	0 14	6 10	1 45	5 33	15 14	8 21	7 49	8 19		n.a.
T 20	19 25	2n32	1 41	24 45	1 48	4 41	2 7	15 58	0 2	12 48	1 14	4 40	2 21	23 37	0 14	6 10	1 45	5 33	15 14	8 21	7 48	8 21		n.a.
F 21	19 40	7 9	0 22	24 42	1 40	5 9	2 7	16 12	0 2	12 46	1 15	4 43	2 21	23 37	0 14	6 10	1 45	5 34	15 14	8 22	7 46	8 23		n.a.
S 22	19 54	11 24	0 s59	24 38	1 30	5 37	2 7	16 25	0 3	12 45	1 15	4 45	2 22	23 37	0 14	6 10	1 45	5 34	15 14	8 21	7 45	8 24		n.a.
S 23	20 8	14 56	2 16	24 31	1 20	6 5	2 6	16 39	0 4	12 43	1 15	4 47	2 22	23 37	0 14	6 10	1 45	5 34	15 14	8 21	7 44	8 26		n.a.
M24	20 21	17 28	3 24	24 22	1 8	6 33	2 6	16 53	0 4	12 42	1 15	4 49	2 22	23 38	0 14	6 10	1 45	5 34	15 13	8 19	7 43	8 28		n.a.
T 25	20 34	18 47	4 17	24 11	0 54	7 0	2 6	17 6	0 5	12 41	1 16	4 51	2 22	23 38	0 14	6 10	1 45	5 34	15 13	8 17	7 41	8 29		n.a.
W26	20 46	18 50	4 52	23 58	0 40	7 28	2 5	17 20	0 6	12 39	1 16	4 53	2 22	23 38	0 14	6 10	1 45	5 34	15 13	8 14	7 40	8 31		n.a.
T 27	20 59	17 43	5 9	23 42	0 24	7 55	2 4	17 33	0 6	12 38	1 16	4 55	2 22	23 38	0 14	6 10	1 45	5 34	15 13	8 12	7 39	8 33		n.a.
F 28	21 10	15 37	5 7	23 25	0 7	8 23	2 4	17 46	0 7	12 37	1 17	4 57	2 22	23 39	0 14	6 10	1 45	5 34	15 13	8 9	7 38	8 34		n.a.
S 29	21 22	12 47	4 49	23 5	0n11	8 50	2 3	17 59	0 8	12 36	1 17	4 59	2 23	23 39	0 14	6 10	1 45	5 34	15 12	8 8	7 37	8 36		n.a.
S 30	21 s33	9n25	4 s17	22 s44	0n30	9 s17	2n 2	18 s11	0 s 8	12n35	1n17	5 s 1	2n23	23 s39	0 s14	6 s10	1 s45	5 s34	15 s12	8 s 7	7 s35	8 s38		n.a.

Julian Day Number = 1681915.5, Delta T = 03h15m01s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'32, Lahiri = - 5°26'32 Julian Calendar 1 Nov. 109 BCE == Greg. Calendar 29 Oct. 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 109 BCE
geocentric

DECEMBER 109 BCE (-108) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 28 3	7♐ 1'00	6♍58	18°R17	0♏ 4	21♏11	0♍40	18♎18	21♐22	18°R34	21°R36	20°D32	19♎ 8	22♎48	n.a.	M 1
T 2	4 32 0	8° 2'16	19° 2	17♐25	1°17	21°56	0°43	18°24	21°26	18°D34	21♈36	20♎33	19° 4	22°55	n.a.	T 2
W 3	4 35 56	9° 3'31	0♎55	16°24	2°30	22°40	0°47	18°29	21°29	18♓34	21°35	20°34	19° 1	23° 2	n.a.	W 3
T 4	4 39 53	10° 4'47	12°42	15°14	3°44	23°25	0°50	18°35	21°33	18°34	21°34	20°35	18°58	23° 8	n.a.	T 4
F 5	4 43 49	11° 6'03	24°28	13°59	4°57	24°10	0°52	18°40	21°36	18°34	21°33	20°R35	18°55	23°15	n.a.	F 5
S 6	4 47 46	12° 7'19	6♏17	12°39	6°11	24°55	0°55	18°45	21°40	18°34	21°33	20°34	18°52	23°22	n.a.	S 6
S 7	4 51 43	13° 8'35	18°14	11°18	7°24	25°39	0°57	18°50	21°43	18°34	21°32	20°30	18°49	23°28	n.a.	S 7
M 8	4 55 39	14° 9'51	0♐20	9°59	8°38	26°24	0°59	18°55	21°47	18°35	21°32	20°23	18°45	23°35	n.a.	M 8
T 9	4 59 36	15°11'07	12°38	8°43	9°51	27° 9	1° 2	19° 0	21°50	18°35	21°31	20°15	18°42	23°41	n.a.	T 9
W10	5 3 32	16°12'23	25° 9	7°34	11° 5	27°54	1° 3	19° 5	21°54	18°35	21°30	20° 4	18°39	23°48	n.a.	W10
T 11	5 7 29	17°13'38	7♑52	6°32	12°19	28°39	1° 5	19°10	21°58	18°35	21°30	19°53	18°36	23°55	n.a.	T 11
F 12	5 11 25	18°14'52	20°47	5°38	13°32	29°24	1° 6	19°15	22° 1	18°36	21°29	19°43	18°33	24° 1	n.a.	F 12
S 13	5 15 22	19°16'06	3♒55	4°55	14°46	0♐ 9	1° 8	19°19	22° 5	18°36	21°29	19°33	18°30	24° 8	n.a.	S 13
S 14	5 19 19	20°17'19	17°14	4°21	16° 0	0°54	1° 9	19°24	22° 8	18°36	21°28	19°26	18°26	24°15	n.a.	S 14
M15	5 23 15	21°18'32	0♓44	3°56	17°14	1°39	1°10	19°28	22°12	18°37	21°28	19°22	18°23	24°21	n.a.	M15
T 16	5 27 12	22°19'43	14°26	3°42	18°27	2°24	1°10	19°33	22°15	18°37	21°27	19°20	18°20	24°28	n.a.	T 16
W17	5 31 8	23°20'54	28°20	3°D36	19°41	3° 9	1°11	19°37	22°19	18°38	21°27	19°D20	18°17	24°35	n.a.	W17
T 18	5 35 5	24°22'03	12♈27	3°39	20°55	3°55	1°11	19°42	22°23	18°38	21°26	19°R20	18°14	24°41	n.a.	T 18
F 19	5 39 1	25°23'12	26°45	3°50	22° 9	4°40	1°R11	19°46	22°26	18°39	21°26	19°20	18°10	24°48	n.a.	F 19
S 20	5 42 58	26°24'20	11♉13	4° 8	23°23	5°25	1°11	19°50	22°30	18°40	21°25	19°18	18° 7	24°55	n.a.	S 20
S 21	5 46 54	27°25'27	25°47	4°32	24°37	6°11	1°11	19°54	22°33	18°40	21°25	19°14	18° 4	25° 1	n.a.	S 21
M22	5 50 51	28°26'32	10♊21	5° 3	25°51	6°56	1°11	19°58	22°37	18°41	21°25	19° 6	18° 1	25° 8	n.a.	M22
T 23	5 54 48	29°27'37	24°50	5°39	27° 5	7°41	1°10	20° 2	22°40	18°42	21°24	18°56	17°58	25°15	n.a.	T 23
W24	5 58 44	0♑28'41	9♋ 5	6°20	28°19	8°27	1° 9	20° 6	22°44	18°42	21°24	18°45	17°55	25°21	n.a.	W24
T 25	6 2 41	1°29'45	23° 1	7° 6	29°33	9°12	1° 8	20° 9	22°47	18°43	21°24	18°33	17°51	25°28	n.a.	T 25
F 26	6 6 37	2°30'47	6♌35	7°56	0♐47	9°58	1° 7	20°13	22°51	18°44	21°23	18°22	17°48	25°34	n.a.	F 26
S 27	6 10 34	3°31'49	19°44	8°50	2° 1	10°43	1° 5	20°17	22°54	18°45	21°23	18°13	17°45	25°41	n.a.	S 27
S 28	6 14 30	4°32'49	2♍29	9°46	3°15	11°29	1° 4	20°20	22°58	18°46	21°23	18° 6	17°42	25°48	n.a.	S 28
M29	6 18 27	5°33'49	14°53	10°46	4°29	12°14	1° 2	20°24	23° 1	18°46	21°23	18° 2	17°39	25°54	n.a.	M29
T 30	6 22 23	6°34'48	26°59	11°49	5°43	13° 0	1° 0	20°27	23° 5	18°47	21°22	18° 0	17°36	26° 1	n.a.	T 30
W31	6 26 20	7♑35'46	8♎54	12♐54	6♐57	13♐46	0♍58	20♎30	23♐ 8	18♓48	21♈22	18°D 0	17♎32	26♎ 8	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
M 1	21s43	5n44	3s34	22s21	0n50	9s44	2n 1	18s24	0s 9	12n34	1n18	5s 3	2n23	23s39	0s14	6s10	1s45	5s34	15s12	8s 6	7s34	8s39			n.a.
T 2	21 54	1 54	2 42	21 56	1 10	10 11	2 0	18 36	0 10	12 33	1 18	5 5	2 23	23 40	0 14	6 10	1 44	5 35	15 12	8 7	7 33	8 41			n.a.
W 3	22 3	1s58	1 45	21 31	1 30	10 37	1 59	18 49	0 10	12 32	1 18	5 7	2 23	23 40	0 14	6 10	1 44	5 35	15 11	8 7	7 32	8 43			n.a.
T 4	22 13	5 43	0 43	21 4	1 49	11 3	1 58	19 1	0 11	12 31	1 18	5 9	2 23	23 40	0 14	6 10	1 44	5 35	15 11	8 8	7 31	8 44			n.a.
F 5	22 21	9 16	0n21	20 38	2 7	11 30	1 56	19 13	0 12	12 31	1 19	5 11	2 24	23 40	0 14	6 10	1 44	5 35	15 11	8 8	7 29	8 46			n.a.
S 6	22 30	12 27	1 24	20 11	2 24	11 55	1 55	19 24	0 12	12 30	1 19	5 13	2 24	23 41	0 14	6 10	1 44	5 35	15 10	8 7	7 28	8 48			n.a.
S 7	22 38	15 9	2 23	19 46	2 39	12 21	1 53	19 36	0 13	12 29	1 19	5 14	2 24	23 41	0 14	6 10	1 44	5 35	15 10	8 6	7 27	8 49			n.a.
M 8	22 45	17 14	3 17	19 22	2 51	12 46	1 52	19 47	0 14	12 29	1 20	5 16	2 24	23 41	0 14	6 10	1 44	5 35	15 10	8 3	7 26	8 51			n.a.
T 9	22 52	18 34	4 2	19 1	3 2	13 11	1 50	19 58	0 14	12 28	1 20	5 18	2 24	23 41	0 14	6 10	1 44	5 34	15 10	8 0	7 24	8 53			n.a.
W10	22 59	19 0	4 37	18 42	3 9	13 36	1 49	20 9	0 15	12 28	1 20	5 20	2 25	23 41	0 14	6 9	1 44	5 34	15 9	7 56	7 23	8 54			n.a.
T 11	23 5	18 31	4 58	18 27	3 15	14 0	1 47	20 20	0 16	12 28	1 21	5 21	2 25	23 42	0 14	6 9	1 44	5 34	15 9	7 52	7 22	8 56			n.a.
F 12	23 11	17 4	5 5	18 14	3 18	14 24	1 45	20 31	0 16	12 27	1 21	5 23	2 25	23 42	0 14	6 9	1 44	5 34	15 9	7 48	7 21	8 58			n.a.
S 13	23 16	14 42	4 55	18 6	3 19	14 48	1 43	20 41	0 17	12 27	1 21	5 25	2 25	23 42	0 14	6 9	1 44	5 34	15 8	7 44	7 20	8 59			n.a.
S 14	23 21	11 33	4 30	18 0	3 18	15 12	1 41	20 51	0 18	12 27	1 21	5 26	2 25	23 42	0 14	6 9	1 44	5 34	15 8	7 41	7 18	9 1			n.a.
M15	23 25	7 46	3 49	17 58	3 15	15 35	1 39	21 1	0 18	12 27	1 22	5 28	2 25	23 43	0 14	6 8	1 44	5 34	15 8	7 40	7 17	9 3			n.a.
T 16	23 29	3 30	2 55	18 0	3 11	15 57	1 37	21 11	0 19	12 27	1 22	5 29	2 26	23 43	0 14	6 8	1 44	5 34	15 8	7 39	7 16	9 4			n.a.
W17	23 32	1n 0	1 50	18 4	3 6	16 20	1 35	21 21	0 20	12 27	1 22	5 31	2 26	23 43	0 14	6 8	1 44	5 34	15 7	7 39	7 15	9 6			n.a.
T 18	23 35	5 32	0 37	18 10	3 0	16 41	1 33	21 30	0 20	12 27	1 23	5 32	2 26	23 43	0 14	6 8	1 44	5 34	15 7	7 39	7 13	9 8			n.a.
F 19	23 37	9 49	0s39	18 19	2 53	17 3	1 31	21 39	0 21	12 28	1 23	5 34	2 26	23 43	0 14	6 7	1 44	5 34	15 7	7 39	7 12	9 9			n.a.
S 20	23 39	13 34	1 54	18 30	2 45	17 24	1 29	21 48	0 22	12 28	1 23	5 35	2 26	23 44	0 14	6 7	1 43	5 33	15 6	7 38	7 11	9 11			n.a.
S 21	23 41	16 29	3 1	18 43	2 37	17 44	1 26	21 57	0 23	12 28	1 24	5 36	2 27	23 44	0 14	6 7	1 43	5 33	15 6	7 36	7 10	9 13			n.a.
M22	23 42	18 21	3 56	18 57	2 28	18 4	1 24	22 5	0 23	12 29	1 24	5 38	2 27	23 44	0 14	6 6	1 43	5 33	15 6	7 34	7 9	9 14			n.a.
T 23	23 42	19 0	4 36	19 12	2 19	18 24	1 22	22 14	0 24	12 29	1 24	5 39	2 27	23 44	0 14	6 6	1 43	5 33	15 5	7 30	7 7	9 16			n.a.
W24	23 42	18 26	4 58	19 29	2 10	18 43	1 19	22 22	0 25	12 30	1 24	5 40	2 27	23 44	0 14	6 6	1 43	5 33	15 5	7 25	7 6	9 17			n.a.
T 25	23 42	16 46	5 1	19 46	2 0	19 2	1 17	22 30	0 25	12 31	1 25	5 41	2 28	23 45	0 14	6 5	1 43	5 33	15 5	7 21	7 5	9 19			n.a.
F 26	23 41	14 12	4 47	20 3	1 51	19 20	1 14	22 37	0 26	12 31	1 25	5 43	2 28	23 45	0 14	6 5	1 43	5 32	15 4	7 17	7 4	9 21			n.a.
S 27	23 39	10 59	4 18	20 21	1 41	19 37	1 12	22 44	0 27	12 32	1 25	5 44	2 28	23 45	0 14	6 5	1 43	5 32	15 4	7 13	7 2	9 22			n.a.
S 28	23 38	7 20	3 37	20 39	1 32	19 55	1 9	22 52	0 27	12 33	1 26	5 45	2 28	23 45	0 14	6 4	1 43	5 32	15 4	7 10	7 1	9 24			n.a.
M29	23 35	3 28	2 46	20 57	1 22	20 11	1 6	22 58	0 28	12 34	1 26	5 46	2 28	23 45	0 14	6 4	1 43	5 32	15 3	7 9	7 0	9 26			n.a.
T 30	23 32	0s27	1 49	21 15	1 13	20 27	1 4	23 5	0 29	12 35	1 26	5 47	2 29	23 46	0 14	6 3	1 43	5 32	15 3	7 8	6 59	9 27			n.a.
W31	23s29	4s18	0s48	21s33	1n 3	20s42	1n 1	23s11	0s29	12n36	1n27	5s48	2n29	23s46	0s14	6s 3	1s43	5s31	15s 3	7s 8	6s58	9s29			n.a.

Julian Day Number = 1681945.5, Delta T = 03h15m00s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'28, Lahiri = - 5°26'28 Julian Calendar 1 Dec. 109 BCE == Greg. Calendar 28 Nov. 109 BCE

The year -108 astronomical counting style corresponds to year 109 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

JANUARY 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 30 17	8♉36'43	20♎42	14♐ 1	8♐11	14♐31	0°R56	20♎33	23♐12	18♓49	21°R22	18°R 0	17♎29	26♎14	n.a.	T 1
F 2	6 34 13	9°37'40	2♏29	15°11	9°25	15°17	0♍53	20°36	23°15	18°50	21♈22	17♎59	17°26	26°21	n.a.	F 2
S 3	6 38 10	10°38'35	14°21	16°22	10°39	16° 3	0°50	20°39	23°19	18°51	21°22	17°56	17°23	26°28	n.a.	S 3
S 4	6 42 6	11°39'30	26°22	17°36	11°54	16°49	0°47	20°42	23°22	18°53	21°22	17°51	17°20	26°34	n.a.	S 4
M 5	6 46 3	12°40'23	8♐36	18°50	13° 8	17°34	0°44	20°45	23°26	18°54	21°22	17°43	17°16	26°41	n.a.	M 5
T 6	6 49 59	13°41'16	21° 5	20° 7	14°22	18°20	0°41	20°47	23°29	18°55	21°22	17°32	17°13	26°48	n.a.	T 6
W 7	6 53 56	14°42'07	3♉52	21°25	15°36	19° 6	0°37	20°50	23°33	18°56	21°D22	17°20	17°10	26°54	n.a.	W 7
T 8	6 57 53	15°42'56	16°56	22°44	16°50	19°52	0°34	20°52	23°36	18°57	21°22	17° 6	17° 7	27° 1	n.a.	T 8
F 9	7 1 49	16°43'45	0♒15	24° 5	18° 4	20°38	0°30	20°55	23°39	18°58	21°22	16°52	17° 4	27° 8	n.a.	F 9
S 10	7 5 46	17°44'32	13°47	25°26	19°19	21°24	0°26	20°57	23°43	19° 0	21°22	16°40	17° 1	27°14	n.a.	S 10
S 11	7 9 42	18°45'17	27°29	26°49	20°33	22°10	0°22	20°59	23°46	19° 1	21°22	16°31	16°57	27°21	n.a.	S 11
M12	7 13 39	19°46'00	11♓19	28°13	21°47	22°56	0°18	21° 1	23°49	19° 2	21°22	16°25	16°54	27°27	n.a.	M12
T 13	7 17 35	20°46'42	25°14	29°38	23° 1	23°42	0°13	21° 3	23°53	19° 4	21°22	16°22	16°51	27°34	n.a.	T 13
W14	7 21 32	21°47'22	9♈14	1♉ 4	24°15	24°28	0° 8	21° 5	23°56	19° 5	21°22	16°20	16°48	27°41	n.a.	W14
T 15	7 25 28	22°48'00	23°17	2°32	25°30	25°14	0° 4	21° 7	23°59	19° 7	21°22	16°20	16°45	27°47	n.a.	T 15
F 16	7 29 25	23°48'36	7♉23	4° 0	26°44	26° 0	29♌59	21° 9	24° 2	19° 8	21°22	16°20	16°42	27°54	n.a.	F 16
S 17	7 33 21	24°49'10	21°31	5°29	27°58	26°46	29°53	21°10	24° 6	19° 9	21°23	16°18	16°38	28° 1	n.a.	S 17
S 18	7 37 18	25°49'42	5♊40	6°59	29°12	27°33	29°48	21°12	24° 9	19°11	21°23	16°13	16°35	28° 7	n.a.	S 18
M19	7 41 15	26°50'13	19°46	8°30	0♉26	28°19	29°43	21°13	24°12	19°12	21°23	16° 6	16°32	28°14	n.a.	M19
T 20	7 45 11	27°50'41	3♋47	10° 2	1°41	29° 5	29°37	21°14	24°15	19°14	21°23	15°55	16°29	28°21	n.a.	T 20
W21	7 49 8	28°51'08	17°38	11°35	2°55	29°51	29°32	21°15	24°18	19°16	21°24	15°43	16°26	28°27	n.a.	W21
T 22	7 53 4	29°51'33	1♌15	13° 9	4° 9	0♉37	29°26	21°17	24°21	19°17	21°24	15°31	16°22	28°34	n.a.	T 22
F 23	7 57 1	0♒51'56	14°34	14°43	5°23	1°24	29°20	21°18	24°24	19°19	21°24	15°19	16°19	28°41	n.a.	F 23
S 24	8 0 57	1°52'17	27°34	16°19	6°37	2°10	29°14	21°18	24°27	19°20	21°25	15° 9	16°16	28°47	n.a.	S 24
S 25	8 4 54	2°52'37	10♍15	17°56	7°52	2°56	29° 7	21°19	24°30	19°22	21°25	15° 1	16°13	28°54	n.a.	S 25
M26	8 8 51	3°52'55	22°37	19°34	9° 6	3°42	29° 1	21°20	24°33	19°24	21°25	14°56	16°10	29° 1	n.a.	M26
T 27	8 12 47	4°53'11	4♎44	21°12	10°20	4°29	28°55	21°20	24°36	19°26	21°26	14°54	16° 7	29° 7	n.a.	T 27
W28	8 16 44	5°53'26	16°39	22°52	11°34	5°15	28°48	21°21	24°39	19°27	21°26	14°D54	16° 3	29°14	n.a.	W28
T 29	8 20 40	6°53'39	28°28	24°33	12°48	6° 1	28°41	21°21	24°42	19°29	21°27	14°54	16° 0	29°20	n.a.	T 29
F 30	8 24 37	7°53'50	10♏17	26°15	14° 3	6°48	28°35	21°22	24°45	19°31	21°27	14°R54	15°57	29°27	n.a.	F 30
S 31	8 28 33	8♒54'00	22♏10	27♉57	15♉17	7♉34	28♌28	21♎22	24♐48	19♓33	21♈28	14♎53	15♎54	29♎34	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
T 1	23 s25	7 s57	0n14	21 s51	0n54	20 s57	0n58	23 s18	0 s30	12n37	1n27	5 s49	2n29	23 s46	0 s14	6 s 3	1 s43	5 s31	15 s 2	7 s 8	6 s56	9 s30			n.a.
F 2	23 21	11 17	1 16	22 8	0 45	21 11	0 56	23 23	0 31	12 38	1 27	5 50	2 29	23 46	0 14	6 2	1 43	5 31	15 2	7 8	6 55	9 32			n.a.
S 3	23 16	14 10	2 15	22 25	0 36	21 25	0 53	23 29	0 31	12 40	1 27	5 51	2 30	23 46	0 14	6 2	1 43	5 31	15 2	7 7	6 54	9 34			n.a.
S 4	23 11	16 30	3 8	22 41	0 27	21 38	0 50	23 34	0 32	12 41	1 28	5 52	2 30	23 47	0 14	6 1	1 43	5 30	15 1	7 5	6 53	9 35			n.a.
M 5	23 6	18 8	3 54	22 56	0 18	21 50	0 48	23 40	0 33	12 42	1 28	5 52	2 30	23 47	0 14	6 1	1 43	5 30	15 1	7 2	6 51	9 37			n.a.
T 6	23 0	18 55	4 29	23 11	0 9	22 2	0 45	23 45	0 33	12 44	1 28	5 53	2 30	23 47	0 14	6 0	1 43	5 30	15 1	6 58	6 50	9 39			n.a.
W 7	22 53	18 47	4 52	23 25	0 1	22 13	0 42	23 49	0 34	12 45	1 29	5 54	2 30	23 47	0 14	6 0	1 43	5 29	15 0	6 53	6 49	9 40			n.a.
T 8	22 46	17 39	5 0	23 38	0 s 7	22 24	0 39	23 53	0 35	12 47	1 29	5 55	2 31	23 47	0 14	5 59	1 43	5 29	15 0	6 47	6 48	9 42			n.a.
F 9	22 39	15 34	4 52	23 50	0 15	22 34	0 36	23 58	0 35	12 48	1 29	5 55	2 31	23 48	0 14	5 59	1 42	5 29	15 0	6 42	6 46	9 43			n.a.
S 10	22 31	12 36	4 28	24 1	0 23	22 43	0 34	24 1	0 36	12 50	1 29	5 56	2 31	23 48	0 14	5 58	1 42	5 28	14 59	6 37	6 45	9 45			n.a.
S 11	22 23	8 55	3 48	24 11	0 31	22 51	0 31	24 5	0 37	12 52	1 30	5 57	2 31	23 48	0 14	5 58	1 42	5 28	14 59	6 34	6 44	9 47			n.a.
M12	22 14	4 44	2 54	24 20	0 38	22 59	0 28	24 8	0 37	12 54	1 30	5 57	2 32	23 48	0 15	5 57	1 42	5 28	14 59	6 31	6 43	9 48			n.a.
T 13	22 5	0 15	1 49	24 27	0 45	23 6	0 25	24 11	0 38	12 55	1 30	5 58	2 32	23 48	0 15	5 56	1 42	5 27	14 58	6 30	6 42	9 50			n.a.
W14	21 55	4n16	0 38	24 34	0 52	23 13	0 22	24 14	0 39	12 57	1 30	5 58	2 32	23 48	0 15	5 56	1 42	5 27	14 58	6 30	6 40	9 51			n.a.
T 15	21 45	8 35	0 s37	24 39	0 59	23 18	0 19	24 17	0 39	12 59	1 31	5 59	2 32	23 49	0 15	5 55	1 42	5 27	14 58	6 30	6 39	9 53			n.a.
F 16	21 35	12 25	1 49	24 44	1 5	23 23	0 17	24 19	0 40	13 1	1 31	5 59	2 33	23 49	0 15	5 55	1 42	5 26	14 57	6 30	6 38	9 55			n.a.
S 17	21 24	15 32	2 55	24 46	1 11	23 28	0 14	24 21	0 41	13 3	1 31	5 59	2 33	23 49	0 15	5 54	1 42	5 26	14 57	6 29	6 37	9 56			n.a.
S 18	21 13	17 43	3 50	24 48	1 17	23 31	0 11	24 22	0 41	13 5	1 31	6 0	2 33	23 49	0 15	5 53	1 42	5 25	14 57	6 27	6 35	9 58			n.a.
M19	21 1	18 49	4 30	24 48	1 22	23 34	0 8	24 24	0 42	13 8	1 32	6 0	2 33	23 49	0 15	5 53	1 42	5 25	14 56	6 24	6 34	9 59			n.a.
T 20	20 49	18 45	4 54	24 47	1 28	23 36	0 5	24 25	0 43	13 10	1 32	6 0	2 34	23 49	0 15	5 52	1 42	5 25	14 56	6 20	6 33	10 1			n.a.
W21	20 37	17 33	5 1	24 44	1 32	23 38	0 3	24 26	0 43	13 12	1 32	6 0	2 34	23 50	0 15	5 51	1 42	5 24	14 56	6 15	6 32	10 2			n.a.
T 22	20 24	15 23	4 50	24 39	1 37	23 39	0 s 0	24 26	0 44	13 14	1 32	6 1	2 34	23 50	0 15	5 51	1 42	5 24	14 55	6 10	6 30	10 4			n.a.
F 23	20 11	12 27	4 23	24 34	1 41	23 39	0 3	24 27	0 45	13 17	1 33	6 1	2 34	23 50	0 15	5 50	1 42	5 23	14 55	6 6	6 29	10 6			n.a.
S 24	19 58	8 57	3 43	24 26	1 45	23 38	0 6	24 27	0 45	13 19	1 33	6 1	2 35	23 50	0 15	5 49	1 42	5 23	14 55	6 2	6 28	10 7			n.a.
S 25	19 44	5 9	2 53	24 17	1 49	23 37	0 8	24 26	0 46	13 21	1 33	6 1	2 35	23 50	0 15	5 49	1 42	5 23	14 54	5 59	6 27	10 9			n.a.
M26	19 30	1 12	1 56	24 7	1 52	23 34	0 11	24 26	0 47	13 24	1 33	6 1	2 35	23 50	0 15	5 48	1 42	5 22	14 54	5 57	6 26	10 10			n.a.
T 27	19 15	2 s43	0 54	23 54	1 55	23 32	0 14	24 25	0 47	13 26	1 33	6 1	2 35	23 50	0 15	5 47	1 42	5 22	14 54	5 56	6 24	10 12			n.a.
W28	19 1	6 28	0n 9	23 40	1 58	23 28	0 16	24 24	0 48	13 29	1 34	6 1	2 36	23 51	0 15	5 47	1 42	5 21	14 53	5 56	6 23	10 13			n.a.
T 29	18 45	9 56	1 12	23 25	2 0	23 24	0 19	24 23	0 49	13 31	1 34	6 1	2 36	23 51	0 15	5 46	1 42	5 21	14 53	5 56	6 22	10 15			n.a.
F 30	18 30	12 59	2 11	23 8	2 2	23 19	0 22	24 21	0 49	13 34	1 34	6 1	2 36	23 51	0 15	5 45	1 42	5 20	14 53	5 56	6 21	10 17			n.a.
S 31	18 s14	15 s32	3n 5	22 s48	2 s 3	23 s13	0 s24	24 s19	0 s50	13n37	1n34	6 s 0	2n36	23 s51	0 s15	5 s44	1 s42	5 s20	14 s52	5 s56	6 s19	10 s18			n.a.

Julian Day Number = 1681976.5, Delta T = 03h14m59s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'24, Lahiri = - 5°26'23 Julian Calendar 1 Jan. 108 BCE == Greg. Calendar 29 Dec. 109 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

FEBRUARY 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 32 30	9♒54'08	4♐12	29♑41	16♑31	8♑21	28°R21	21°R22	24♐50	19♓34	21♈28	14°R50	15♎51	29♎40	n.a.	S 1
M 2	8 36 26	10°54'15	16°30	1♒26	17°45	9° 7	28♌14	21♎22	24°53	19°36	21°29	14♎45	15°47	29°47	n.a.	M 2
T 3	8 40 23	11°54'20	29° 6	3°12	18°59	9°54	28° 6	21°22	24°56	19°38	21°29	14°37	15°44	29°54	n.a.	T 3
W 4	8 44 19	12°54'22	12♑ 2	4°59	20°14	10°40	27°59	21°21	24°59	19°40	21°30	14°28	15°41	0♏ 0	n.a.	W 4
T 5	8 48 16	13°54'24	25°20	6°47	21°28	11°26	27°52	21°21	25° 1	19°42	21°30	14°17	15°38	0° 7	n.a.	T 5
F 6	8 52 13	14°54'23	8♒59	8°37	22°42	12°13	27°45	21°21	25° 4	19°44	21°31	14° 6	15°35	0°14	n.a.	F 6
S 7	8 56 9	15°54'20	22°55	10°27	23°56	12°59	27°37	21°20	25° 6	19°46	21°32	13°57	15°32	0°20	n.a.	S 7
S 8	9 0 6	16°54'15	7♓ 3	12°19	25°10	13°46	27°30	21°19	25° 9	19°48	21°32	13°50	15°28	0°27	n.a.	S 8
M 9	9 4 2	17°54'08	21°20	14°11	26°24	14°32	27°22	21°19	25°11	19°50	21°33	13°45	15°25	0°34	n.a.	M 9
T 10	9 7 59	18°53'58	5♈40	16° 5	27°39	15°19	27°14	21°18	25°14	19°52	21°34	13°43	15°22	0°40	n.a.	T 10
W11	9 11 55	19°53'46	19°58	18° 0	28°53	16° 5	27° 7	21°17	25°16	19°54	21°34	13°D43	15°19	0°47	n.a.	W11
T 12	9 15 52	20°53'32	4♉13	19°55	0♒ 7	16°52	26°59	21°16	25°19	19°56	21°35	13°44	15°16	0°54	n.a.	T 12
F 13	9 19 48	21°53'16	18°22	21°52	1°21	17°38	26°51	21°15	25°21	19°58	21°36	13°R45	15°13	1° 0	n.a.	F 13
S 14	9 23 45	22°52'57	2♊24	23°50	2°35	18°25	26°44	21°13	25°23	20° 0	21°37	13°44	15° 9	1° 7	n.a.	S 14
S 15	9 27 42	23°52'36	16°18	25°48	3°49	19°12	26°36	21°12	25°26	20° 2	21°37	13°42	15° 6	1°14	n.a.	S 15
M16	9 31 38	24°52'12	0♋ 3	27°47	5° 3	19°58	26°28	21°11	25°28	20° 4	21°38	13°38	15° 3	1°20	n.a.	M16
T 17	9 35 35	25°51'46	13°38	29°47	6°17	20°45	26°20	21° 9	25°30	20° 6	21°39	13°31	15° 0	1°27	n.a.	T 17
W18	9 39 31	26°51'18	27° 2	1♓47	7°32	21°31	26°13	21° 7	25°32	20° 8	21°40	13°24	14°57	1°33	n.a.	W18
T 19	9 43 28	27°50'47	10♌14	3°48	8°46	22°18	26° 5	21° 6	25°34	20°10	21°41	13°16	14°53	1°40	n.a.	T 19
F 20	9 47 24	28°50'14	23°11	5°48	10° 0	23° 4	25°57	21° 4	25°36	20°12	21°42	13° 8	14°50	1°47	n.a.	F 20
S 21	9 51 21	29°49'39	5♍54	7°48	11°14	23°51	25°49	21° 2	25°38	20°15	21°42	13° 1	14°47	1°53	n.a.	S 21
S 22	9 55 17	0♓49'02	18°22	9°48	12°28	24°37	25°41	21° 0	25°40	20°17	21°43	12°56	14°44	2° 0	n.a.	S 22
M23	9 59 14	1°48'23	0♎36	11°47	13°42	25°24	25°34	20°58	25°42	20°19	21°44	12°54	14°41	2° 7	n.a.	M23
T 24	10 3 10	2°47'42	12°39	13°45	14°56	26°10	25°26	20°56	25°44	20°21	21°45	12°D53	14°38	2°13	n.a.	T 24
W25	10 7 7	3°46'58	24°33	15°42	16°10	26°57	25°18	20°54	25°46	20°23	21°46	12°53	14°34	2°20	n.a.	W25
T 26	10 11 4	4°46'13	6♏22	17°36	17°24	27°43	25°11	20°51	25°48	20°25	21°47	12°55	14°31	2°27	n.a.	T 26
F 27	10 15 0	5°45'26	18°11	19°29	18°38	28°30	25° 3	20°49	25°50	20°28	21°48	12°57	14°28	2°33	n.a.	F 27
S 28	10 18 57	6♓44'37	0♐ 4	21♓18	19♒52	29♑17	24♌56	20♎46	25♐51	20♓30	21♈49	12♎58	14♎25	2♏40	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	17s58	17s26	3n52	22s28	2s 4	23s 7	0s27	24s17	0s51	13n39	1n34	6s 0	2n37	23s51	0s15	5s44	1s42	5s19	14s52	5s55	6s18	10s20		n.a.	S 1
M 2	17 41	18 34	4 28	22 5	2 4	23 0	0 29	24 14	0 51	13 42	1 35	6 0	2 37	23 51	0 15	5 43	1 42	5 19	14 52	5 52	6 17	10 21		n.a.	M 2
T 3	17 25	18 49	4 53	21 40	2 5	22 52	0 31	24 12	0 52	13 44	1 35	6 0	2 37	23 51	0 15	5 42	1 41	5 18	14 52	5 49	6 16	10 23		n.a.	T 3
W 4	17 8	18 6	5 4	21 14	2 4	22 43	0 34	24 9	0 52	13 47	1 35	5 59	2 37	23 51	0 15	5 41	1 41	5 18	14 51	5 46	6 14	10 24		n.a.	W 4
T 5	16 50	16 25	4 59	20 46	2 3	22 34	0 36	24 5	0 53	13 50	1 35	5 59	2 38	23 52	0 15	5 40	1 41	5 17	14 51	5 42	6 13	10 26		n.a.	T 5
F 6	16 33	13 46	4 36	20 16	2 2	22 24	0 39	24 2	0 54	13 53	1 35	5 59	2 38	23 52	0 15	5 40	1 41	5 17	14 51	5 37	6 12	10 27		n.a.	F 6
S 7	16 15	10 18	3 57	19 44	2 0	22 14	0 41	23 58	0 54	13 55	1 35	5 58	2 38	23 52	0 15	5 39	1 41	5 16	14 50	5 34	6 11	10 29		n.a.	S 7
S 8	15 57	6 11	3 3	19 11	1 58	22 3	0 43	23 54	0 55	13 58	1 35	5 58	2 38	23 52	0 15	5 38	1 41	5 16	14 50	5 31	6 9	10 31		n.a.	S 8
M 9	15 38	1 41	1 57	18 35	1 55	21 51	0 45	23 49	0 55	14 1	1 35	5 57	2 39	23 52	0 15	5 37	1 41	5 15	14 50	5 29	6 8	10 32		n.a.	M 9
T 10	15 20	2n56	0 43	17 58	1 52	21 38	0 47	23 45	0 56	14 4	1 36	5 57	2 39	23 52	0 15	5 36	1 41	5 15	14 49	5 28	6 7	10 34		n.a.	T 10
W11	15 1	7 22	0s34	17 19	1 48	21 25	0 50	23 40	0 57	14 6	1 36	5 56	2 39	23 52	0 15	5 36	1 41	5 14	14 49	5 28	6 6	10 35		n.a.	W11
T 12	14 41	11 22	1 48	16 38	1 43	21 12	0 52	23 34	0 57	14 9	1 36	5 56	2 39	23 52	0 15	5 35	1 41	5 14	14 49	5 29	6 4	10 37		n.a.	T 12
F 13	14 22	14 41	2 55	15 55	1 38	20 57	0 54	23 29	0 58	14 12	1 36	5 55	2 39	23 52	0 15	5 34	1 41	5 13	14 48	5 29	6 3	10 38		n.a.	F 13
S 14	14 2	17 5	3 52	15 11	1 32	20 42	0 56	23 23	0 58	14 15	1 36	5 54	2 40	23 52	0 15	5 33	1 41	5 13	14 48	5 29	6 2	10 40		n.a.	S 14
S 15	13 43	18 27	4 34	14 24	1 26	20 27	0 58	23 17	0 59	14 17	1 36	5 54	2 40	23 53	0 15	5 32	1 41	5 12	14 48	5 28	6 1	10 41		n.a.	S 15
M16	13 23	18 43	4 59	13 37	1 19	20 10	0 59	23 11	1 0	14 20	1 36	5 53	2 40	23 53	0 15	5 31	1 41	5 11	14 48	5 26	6 0	10 43		n.a.	M16
T 17	13 2	17 54	5 8	12 48	1 12	19 54	1 1	23 5	1 0	14 23	1 36	5 52	2 40	23 53	0 15	5 31	1 41	5 11	14 47	5 24	5 58	10 44		n.a.	T 17
W18	12 42	16 5	4 59	11 57	1 4	19 36	1 3	22 58	1 1	14 26	1 36	5 51	2 41	23 53	0 15	5 30	1 41	5 10	14 47	5 21	5 57	10 46		n.a.	W18
T 19	12 21	13 28	4 35	11 5	0 55	19 19	1 5	22 51	1 1	14 28	1 36	5 50	2 41	23 53	0 15	5 29	1 41	5 10	14 47	5 17	5 56	10 47		n.a.	T 19
F 20	12 0	10 13	3 56	10 12	0 46	19 0	1 6	22 43	1 2	14 31	1 36	5 49	2 41	23 53	0 15	5 28	1 41	5 9	14 47	5 14	5 55	10 49		n.a.	F 20
S 21	11 39	6 33	3 7	9 18	0 36	18 41	1 8	22 36	1 2	14 34	1 36	5 49	2 41	23 53	0 15	5 27	1 41	5 9	14 46	5 12	5 53	10 50		n.a.	S 21
S 22	11 18	2 40	2 9	8 23	0 26	18 22	1 9	22 28	1 3	14 36	1 36	5 48	2 41	23 53	0 15	5 26	1 41	5 8	14 46	5 10	5 52	10 52		n.a.	S 22
M23	10 57	1s15	1 6	7 27	0 15	18 2	1 11	22 20	1 4	14 39	1 36	5 47	2 42	23 53	0 15	5 25	1 41	5 7	14 46	5 9	5 51	10 53		n.a.	M23
T 24	10 35	5 4	0 1	6 31	0 4	17 41	1 12	22 12	1 4	14 42	1 36	5 46	2 42	23 53	0 15	5 25	1 41	5 7	14 45	5 9	5 50	10 55		n.a.	T 24
W25	10 14	8 38	1n 3	5 35	0n 7	17 20	1 14	22 3	1 5	14 44	1 36	5 45	2 42	23 53	0 15	5 24	1 41	5 6	14 45	5 9	5 48	10 57		n.a.	W25
T 26	9 52	11 50	2 5	4 39	0 19	16 59	1 15	21 55	1 5	14 47	1 36	5 44	2 42	23 54	0 15	5 23	1 41	5 6	14 45	5 9	5 47	10 58		n.a.	T 26
F 27	9 30	14 33	3 1	3 44	0 31	16 37	1 16	21 46	1 6	14 50	1 36	5 42	2 42	23 54	0 15	5 22	1 41	5 5	14 45	5 10	5 46	11 0		n.a.	F 27
S 28	9s 8	16s39	3n49	2s49	0n44	16s14	1s17	21s36	1s 6	14n52	1n36	5s41	2n43	23s54	0s15	5s21	1s41	5s 5	14s44	5s11	5s45	11s 1		n.a.	S 28

Julian Day Number = 1682007.5, Delta T = 03h14m58s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'20, Lahiri = - 5°26'19 Julian Calendar 1 Feb. 108 BCE == Greg. Calendar 29 Jan. 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

MARCH 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 22 53	7♓43'46	12♐ 7	23♓ 5	21♒ 6	0♒ 3	24°R48	20°R44	25♐53	20♓32	21♈50	12°R58	14♎22	2♏47	n.a.	S 1
M 2	10 26 50	8°42'54	24°24	24°48	22°20	0°50	24♌41	20♎41	25°55	20°34	21°51	12♎57	14°19	2°53	n.a.	M 2
T 3	10 30 46	9°41'59	6♑59	26°27	23°34	1°36	24°34	20°38	25°56	20°37	21°52	12°54	14°15	3° 0	n.a.	T 3
W 4	10 34 43	10°41'03	19°58	28° 3	24°48	2°23	24°26	20°36	25°58	20°39	21°53	12°50	14°12	3° 7	n.a.	W 4
T 5	10 38 39	11°40'04	3♒21	29°33	26° 2	3° 9	24°19	20°33	25°59	20°41	21°54	12°45	14° 9	3°13	n.a.	T 5
F 6	10 42 36	12°39'04	17° 8	0♈59	27°16	3°56	24°12	20°30	26° 1	20°43	21°55	12°41	14° 6	3°20	n.a.	F 6
S 7	10 46 33	13°38'02	1♓18	2°19	28°31	4°42	24° 5	20°27	26° 2	20°46	21°56	12°36	14° 3	3°27	n.a.	S 7
S 8	10 50 29	14°36'57	15°47	3°34	29°45	5°29	23°58	20°23	26° 3	20°48	21°58	12°33	13°59	3°33	n.a.	S 8
M 9	10 54 26	15°35'51	0♈27	4°43	0♓59	6°15	23°51	20°20	26° 5	20°50	21°59	12°31	13°56	3°40	n.a.	M 9
T 10	10 58 22	16°34'42	15°13	5°47	2°12	7° 2	23°45	20°17	26° 6	20°52	22° 0	12°D31	13°53	3°47	n.a.	T 10
W11	11 2 19	17°33'31	29°57	6°44	3°26	7°48	23°38	20°14	26° 7	20°55	22° 1	12°32	13°50	3°53	n.a.	W11
T 12	11 6 15	18°32'18	14♉33	7°36	4°40	8°34	23°31	20°10	26° 8	20°57	22° 2	12°33	13°47	4° 0	n.a.	T 12
F 13	11 10 12	19°31'02	28°57	8°21	5°54	9°21	23°25	20° 7	26° 9	20°59	22° 3	12°34	13°44	4° 6	n.a.	F 13
S 14	11 14 8	20°29'44	13♊ 6	9° 0	7° 8	10° 7	23°19	20° 3	26°10	21° 1	22° 4	12°35	13°40	4°13	n.a.	S 14
S 15	11 18 5	21°28'24	26°58	9°32	8°22	10°54	23°13	20° 0	26°11	21° 4	22° 6	12°R35	13°37	4°20	n.a.	S 15
M16	11 22 1	22°27'02	10♋34	9°58	9°36	11°40	23° 6	19°56	26°12	21° 6	22° 7	12°34	13°34	4°26	n.a.	M16
T 17	11 25 58	23°25'37	23°53	10°18	10°50	12°26	23° 1	19°52	26°13	21° 8	22° 8	12°33	13°31	4°33	n.a.	T 17
W18	11 29 55	24°24'09	6♌57	10°31	12° 4	13°13	22°55	19°48	26°14	21°10	22° 9	12°30	13°28	4°40	n.a.	W18
T 19	11 33 51	25°22'40	19°46	10°39	13°18	13°59	22°49	19°45	26°15	21°13	22°10	12°28	13°24	4°46	n.a.	T 19
F 20	11 37 48	26°21'08	2♍22	10°R40	14°32	14°45	22°44	19°41	26°16	21°15	22°12	12°25	13°21	4°53	n.a.	F 20
S 21	11 41 44	27°19'34	14°46	10°35	15°46	15°31	22°38	19°37	26°16	21°17	22°13	12°23	13°18	5° 0	n.a.	S 21
S 22	11 45 41	28°17'59	26°59	10°24	17° 0	16°18	22°33	19°33	26°17	21°19	22°14	12°22	13°15	5° 6	n.a.	S 22
M23	11 49 37	29°16'21	9♎ 3	10° 8	18°13	17° 4	22°28	19°29	26°18	21°22	22°15	12°D21	13°12	5°13	n.a.	M23
T 24	11 53 34	0♈14'41	20°59	9°47	19°27	17°50	22°23	19°25	26°18	21°24	22°17	12°22	13° 9	5°20	n.a.	T 24
W25	11 57 30	1°13'00	2♏50	9°22	20°41	18°36	22°18	19°21	26°19	21°26	22°18	12°22	13° 5	5°26	n.a.	W25
T 26	12 1 27	2°11'16	14°39	8°53	21°55	19°22	22°14	19°17	26°19	21°28	22°19	12°23	13° 2	5°33	n.a.	T 26
F 27	12 5 24	3° 9'31	26°28	8°20	23° 9	20° 8	22° 9	19°12	26°19	21°31	22°21	12°24	12°59	5°40	n.a.	F 27
S 28	12 9 20	4° 7'45	8♐22	7°45	24°23	20°55	22° 5	19° 8	26°20	21°33	22°22	12°25	12°56	5°46	n.a.	S 28
S 29	12 13 17	5° 5'57	20°25	7° 7	25°37	21°41	22° 1	19° 4	26°20	21°35	22°23	12°26	12°53	5°53	n.a.	S 29
M30	12 17 13	6° 4'07	2♑40	6°28	26°50	22°27	21°57	19° 0	26°20	21°37	22°24	12°R26	12°50	6° 0	n.a.	M30
T 31	12 21 10	7♈ 2'15	15♑14	5♈49	28♓ 4	23♒13	21♌53	18♎55	26♐21	21♓39	22♈26	12♎26	12♎46	6♏ 6	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	8s46	18s 3	4n29	1s55	0n56	15s52	1s19	21s27	1s 7	14n55	1n36	5s40	2n43	23s54	0s15	5s20	1s41	5s 4	14s44	5s11	5s43	11s 3			n.a.
M 2	8 24	18 39	4 57	1 3	1 8	15 28	1 20	21 17	1 7	14 57	1 36	5 39	2 43	23 54	0 15	5 19	1 41	5 3	14 44	5 10	5 42	11 4			n.a.
T 3	8 1	18 21	5 11	0 12	1 21	15 5	1 21	21 7	1 8	15 0	1 36	5 38	2 43	23 54	0 15	5 18	1 41	5 3	14 44	5 9	5 41	11 6			n.a.
W 4	7 39	17 5	5 10	0n38	1 33	14 41	1 21	20 57	1 8	15 2	1 36	5 37	2 43	23 54	0 15	5 17	1 41	5 2	14 44	5 7	5 40	11 7			n.a.
T 5	7 16	14 53	4 53	1 25	1 44	14 16	1 22	20 47	1 9	15 4	1 36	5 35	2 44	23 54	0 15	5 17	1 41	5 2	14 43	5 6	5 38	11 9			n.a.
F 6	6 53	11 46	4 18	2 10	1 56	13 51	1 23	20 36	1 9	15 7	1 36	5 34	2 44	23 54	0 15	5 16	1 41	5 1	14 43	5 4	5 37	11 10			n.a.
S 7	6 30	7 54	3 27	2 52	2 7	13 26	1 24	20 26	1 10	15 9	1 36	5 33	2 44	23 54	0 15	5 15	1 41	5 0	14 43	5 2	5 36	11 12			n.a.
S 8	6 7	3 30	2 22	3 32	2 17	13 0	1 25	20 15	1 10	15 11	1 36	5 31	2 44	23 54	0 15	5 14	1 41	5 0	14 43	5 1	5 35	11 13			n.a.
M 9	5 44	1n11	1 6	4 9	2 27	12 34	1 25	20 3	1 11	15 14	1 36	5 30	2 44	23 54	0 16	5 13	1 41	4 59	14 42	5 0	5 33	11 14			n.a.
T 10	5 21	5 50	0s15	4 42	2 36	12 8	1 26	19 52	1 11	15 16	1 36	5 29	2 44	23 54	0 16	5 12	1 41	4 59	14 42	5 0	5 32	11 16			n.a.
W11	4 58	10 6	1 35	5 13	2 45	11 42	1 26	19 40	1 12	15 18	1 36	5 27	2 44	23 54	0 16	5 11	1 41	4 58	14 42	5 0	5 31	11 17			n.a.
T 12	4 35	13 43	2 47	5 41	2 52	11 15	1 27	19 29	1 12	15 20	1 36	5 26	2 45	23 54	0 16	5 10	1 41	4 57	14 42	5 1	5 30	11 19			n.a.
F 13	4 12	16 26	3 49	6 5	2 59	10 47	1 27	19 17	1 12	15 22	1 36	5 24	2 45	23 55	0 16	5 9	1 41	4 57	14 42	5 1	5 28	11 20			n.a.
S 14	3 48	18 5	4 35	6 25	3 4	10 20	1 27	19 4	1 13	15 24	1 36	5 23	2 45	23 55	0 16	5 8	1 41	4 56	14 42	5 2	5 27	11 22			n.a.
S 15	3 25	18 36	5 4	6 42	3 9	9 52	1 27	18 52	1 13	15 26	1 36	5 21	2 45	23 55	0 16	5 8	1 41	4 56	14 41	5 2	5 26	11 23			n.a.
M16	3 2	18 2	5 15	6 56	3 12	9 24	1 28	18 39	1 14	15 28	1 35	5 20	2 45	23 55	0 16	5 7	1 41	4 55	14 41	5 1	5 25	11 25			n.a.
T 17	2 38	16 29	5 9	7 6	3 14	8 56	1 28	18 27	1 14	15 30	1 35	5 18	2 45	23 55	0 16	5 6	1 41	4 54	14 41	5 1	5 23	11 26			n.a.
W18	2 15	14 6	4 47	7 12	3 15	8 28	1 28	18 14	1 15	15 32	1 35	5 17	2 45	23 55	0 16	5 5	1 41	4 54	14 41	5 0	5 22	11 28			n.a.
T 19	1 51	11 4	4 11	7 14	3 15	7 59	1 28	18 1	1 15	15 33	1 35	5 15	2 45	23 55	0 16	5 4	1 41	4 53	14 41	4 59	5 21	11 29			n.a.
F 20	1 28	7 35	3 24	7 13	3 13	7 30	1 28	17 47	1 15	15 35	1 35	5 14	2 46	23 55	0 16	5 3	1 41	4 53	14 40	4 58	5 20	11 31			n.a.
S 21	1 4	3 48	2 27	7 8	3 10	7 1	1 27	17 34	1 16	15 37	1 35	5 12	2 46	23 55	0 16	5 2	1 41	4 52	14 40	4 57	5 18	11 32			n.a.
S 22	0 41	0s 5	1 24	7 0	3 5	6 32	1 27	17 20	1 16	15 38	1 35	5 11	2 46	23 55	0 16	5 1	1 41	4 52	14 40	4 56	5 17	11 34			n.a.
M23	0 18	3 54	0 18	6 48	2 59	6 2	1 27	17 7	1 17	15 40	1 35	5 9	2 46	23 55	0 16	5 0	1 41	4 51	14 40	4 56	5 16	11 35			n.a.
T 24	0n 6	7 33	0n48	6 32	2 51	5 32	1 26	16 53	1 17	15 41	1 34	5 7	2 46	23 55	0 16	5 0	1 41	4 50	14 40	4 56	5 15	11 37			n.a.
W25	0 29	10 51	1 51	6 14	2 43	5 3	1 26	16 38	1 17	15 43	1 34	5 6	2 46	23 55	0 16	4 59	1 41	4 50	14 40	4 56	5 13	11 38			n.a.
T 26	0 53	13 42	2 50	5 53	2 32	4 33	1 25	16 24	1 18	15 44	1 34	5 4	2 46	23 55	0 16	4 58	1 41	4 49	14 40	4 57	5 12	11 39			n.a.
F 27	1 16	16 0	3 41	5 30	2 21	4 3	1 25	16 10	1 18	15 46	1 34	5 2	2 46	23 55	0 16	4 57	1 41	4 49	14 39	4 57	5 11	11 41			n.a.
S 28	1 40	17 37	4 24	5 4	2 8	3 33	1 24	15 55	1 18	15 47	1 34	5 1	2 46	23 55	0 16	4 56	1 41	4 48	14 39	4 58	5 10	11 42			n.a.
S 29	2 3	18 27	4 55	4 36	1 54	3 2	1 24	15 41	1 19	15 48	1 34	4 59	2 46	23 55	0 16	4 55	1 41	4 47	14 39	4 58	5 8	11 44			n.a.
M30	2 26	18 28	5 13	4 7	1 40	2 32	1 23	15 26	1 19	15 49	1 33	4 57	2 46	23 55	0 16	4 54	1 41	4 47	14 39	4 58	5 7	11 45			n.a.
T 31	2n49	17s34	5n17	3n37	1n24	2s 2	1s22	15s11	1s19	15n50	1n33	4s56	2n46	23s55	0s16	4s53	1s41	4s46	14s39	4s58	5s 6	11s47			n.a.

Julian Day Number = 1682035.5, Delta T = 03h14m58s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'16, Lahiri = - 5°26'15 Julian Calendar 1 March 108 BCE == Greg. Calendar 26 Feb. 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

APRIL 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 25 6	8♈ 0'22	28♉ 8	5°R 9	29♓18	23♒59	21°R49	18°R51	26♐21	21♓42	22♈27	12°R26	12♎43	6♏13	n.a.	W 1
T 2	12 29 3	8°58'28	11♒27	4♈31	0♈32	24°45	21♌46	18♎47	26°21	21°44	22°28	12♎25	12°40	6°20	n.a.	T 2
F 3	12 32 59	9°56'32	25°13	3°53	1°46	25°31	21°43	18°42	26°R21	21°46	22°30	12°25	12°37	6°26	n.a.	F 3
S 4	12 36 56	10°54'35	9♓25	3°18	3° 0	26°17	21°40	18°38	26°21	21°48	22°31	12°25	12°34	6°33	n.a.	S 4
S 5	12 40 52	11°52'35	23°59	2°46	4°13	27° 2	21°37	18°33	26°21	21°50	22°32	12°25	12°30	6°40	n.a.	S 5
M 6	12 44 49	12°50'35	8♈52	2°16	5°27	27°48	21°34	18°29	26°21	21°52	22°34	12°25	12°27	6°46	n.a.	M 6
T 7	12 48 46	13°48'32	23°55	1°50	6°41	28°34	21°31	18°25	26°21	21°55	22°35	12°25	12°24	6°53	n.a.	T 7
W 8	12 52 42	14°46'28	9♉ 1	1°28	7°55	29°20	21°29	18°20	26°20	21°57	22°36	12°24	12°21	7° 0	n.a.	W 8
T 9	12 56 39	15°44'23	23°59	1°10	9° 9	0♓ 5	21°27	18°16	26°20	21°59	22°38	12°24	12°18	7° 6	n.a.	T 9
F 10	13 0 35	16°42'15	8♊42	0°56	10°22	0°51	21°25	18°11	26°20	22° 1	22°39	12°24	12°15	7°13	n.a.	F 10
S 11	13 4 32	17°40'06	23° 6	0°47	11°36	1°37	21°23	18° 7	26°19	22° 3	22°40	12°23	12°11	7°20	n.a.	S 11
S 12	13 8 28	18°37'54	7♋ 6	0°42	12°50	2°22	21°21	18° 2	26°19	22° 5	22°42	12°23	12° 8	7°26	n.a.	S 12
M13	13 12 25	19°35'41	20°43	0°D42	14° 4	3° 8	21°20	17°58	26°19	22° 7	22°43	12°D23	12° 5	7°33	n.a.	M13
T 14	13 16 21	20°33'26	3♌57	0°47	15°17	3°53	21°18	17°53	26°18	22° 9	22°44	12°23	12° 2	7°40	n.a.	T 14
W15	13 20 18	21°31'10	16°50	0°56	16°31	4°39	21°17	17°49	26°17	22°11	22°46	12°24	11°59	7°46	n.a.	W15
T 16	13 24 15	22°28'51	29°26	1°10	17°45	5°24	21°16	17°44	26°17	22°13	22°47	12°25	11°55	7°53	n.a.	T 16
F 17	13 28 11	23°26'31	11♍47	1°28	18°59	6°10	21°15	17°40	26°16	22°15	22°49	12°26	11°52	7°59	n.a.	F 17
S 18	13 32 8	24°24'09	23°56	1°51	20°12	6°55	21°15	17°36	26°16	22°17	22°50	12°26	11°49	8° 6	n.a.	S 18
S 19	13 36 4	25°21'46	5♎57	2°18	21°26	7°40	21°14	17°31	26°15	22°19	22°51	12°27	11°46	8°13	n.a.	S 19
M20	13 40 1	26°19'21	17°51	2°49	22°40	8°26	21°14	17°27	26°14	22°21	22°53	12°R27	11°43	8°19	n.a.	M20
T 21	13 43 57	27°16'55	29°42	3°24	23°53	9°11	21°D14	17°22	26°13	22°23	22°54	12°26	11°40	8°26	n.a.	T 21
W22	13 47 54	28°14'27	11♏31	4° 3	25° 7	9°56	21°14	17°18	26°12	22°25	22°55	12°25	11°36	8°33	n.a.	W22
T 23	13 51 50	29°11'59	23°20	4°46	26°21	10°41	21°14	17°14	26°11	22°27	22°57	12°23	11°33	8°39	n.a.	T 23
F 24	13 55 47	0♉ 9'29	5♐12	5°32	27°34	11°26	21°15	17° 9	26°10	22°29	22°58	12°20	11°30	8°46	n.a.	F 24
S 25	13 59 44	1° 6'58	17°10	6°23	28°48	12°11	21°16	17° 5	26° 9	22°31	22°59	12°17	11°27	8°53	n.a.	S 25
S 26	14 3 40	2° 4'26	29°16	7°16	0♉ 2	12°56	21°16	17° 1	26° 8	22°33	23° 1	12°15	11°24	8°59	n.a.	S 26
M27	14 7 37	3° 1'54	11♉33	8°13	1°16	13°41	21°17	16°57	26° 7	22°34	23° 2	12°13	11°21	9° 6	n.a.	M27
T 28	14 11 33	3°59'20	24° 5	9°14	2°29	14°26	21°19	16°52	26° 6	22°36	23° 3	12°11	11°17	9°13	n.a.	T 28
W29	14 15 30	4°56'45	6♒56	10°17	3°43	15°11	21°20	16°48	26° 5	22°38	23° 5	12°D11	11°14	9°19	n.a.	W29
T 30	14 19 26	5♉54'10	20♒ 9	11♈24	4♉57	15♓56	21♌22	16♎44	26♐ 4	22♓40	23♈ 6	12♎11	11♎11	9♏26	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n13	15s46	5n 6	3n 7	1n 8	1s31	1s21	14s56	1s20	15n51	1n33	4s54	2n46	23s55	0s16	4s53	1s41	4s46	14s39	4s58	5s 5	11s48		n.a.
T 2	3 36	13 5	4 38	2 36	0 52	1 1	1 20	14 40	1 20	15 52	1 33	4 52	2 47	23 55	0 16	4 52	1 41	4 45	14 39	4 58	5 3	11 50		n.a.
F 3	3 59	9 36	3 53	2 6	0 35	0 30	1 19	14 25	1 20	15 53	1 33	4 51	2 47	23 55	0 16	4 51	1 41	4 45	14 39	4 58	5 2	11 51		n.a.
S 4	4 22	5 27	2 53	1 36	0 18	0n 0	1 18	14 10	1 21	15 54	1 33	4 49	2 47	23 55	0 16	4 50	1 41	4 44	14 39	4 57	5 1	11 52		n.a.
S 5	4 45	0 52	1 41	1 8	0 1	0 31	1 17	13 54	1 21	15 55	1 32	4 47	2 47	23 55	0 16	4 49	1 41	4 43	14 39	4 57	5 0	11 54		n.a.
M 6	5 8	3n51	0 20	0 41	0s15	1 2	1 16	13 38	1 21	15 56	1 32	4 45	2 47	23 55	0 16	4 48	1 41	4 43	14 38	4 57	4 58	11 55		n.a.
T 7	5 30	8 24	1s 4	0 15	0 32	1 32	1 15	13 22	1 21	15 56	1 32	4 44	2 47	23 55	0 16	4 47	1 41	4 42	14 38	4 57	4 57	11 57		n.a.
W 8	5 53	12 24	2 23	0s 8	0 48	2 3	1 14	13 6	1 22	15 57	1 32	4 42	2 47	23 55	0 16	4 47	1 41	4 42	14 38	4 57	4 56	11 58		n.a.
T 9	6 16	15 34	3 31	0 29	1 3	2 33	1 12	12 50	1 22	15 57	1 32	4 40	2 47	23 55	0 16	4 46	1 41	4 41	14 38	4 57	4 55	12 0		n.a.
F 10	6 38	17 39	4 25	0 48	1 17	3 4	1 11	12 34	1 22	15 58	1 31	4 39	2 47	23 55	0 16	4 45	1 41	4 41	14 38	4 57	4 53	12 1		n.a.
S 11	7 1	18 32	5 0	1 5	1 31	3 34	1 10	12 18	1 22	15 58	1 31	4 37	2 47	23 55	0 16	4 44	1 41	4 40	14 38	4 57	4 52	12 2		n.a.
S 12	7 23	18 15	5 16	1 19	1 45	4 5	1 8	12 2	1 23	15 59	1 31	4 35	2 47	23 55	0 16	4 43	1 41	4 40	14 38	4 57	4 51	12 4		n.a.
M13	7 45	16 55	5 14	1 30	1 57	4 35	1 7	11 45	1 23	15 59	1 31	4 34	2 47	23 56	0 16	4 43	1 41	4 39	14 38	4 57	4 50	12 5		n.a.
T 14	8 7	14 42	4 56	1 39	2 8	5 5	1 5	11 29	1 23	15 59	1 31	4 32	2 47	23 56	0 16	4 42	1 42	4 39	14 38	4 57	4 48	12 7		n.a.
W15	8 29	11 48	4 22	1 44	2 19	5 35	1 3	11 12	1 23	15 59	1 30	4 30	2 47	23 56	0 16	4 41	1 42	4 38	14 38	4 57	4 47	12 8		n.a.
T 16	8 51	8 25	3 37	1 48	2 28	6 5	1 2	10 55	1 23	15 59	1 30	4 29	2 47	23 56	0 16	4 40	1 42	4 38	14 38	4 57	4 46	12 9		n.a.
F 17	9 12	4 44	2 42	1 48	2 37	6 35	1 0	10 39	1 24	15 59	1 30	4 27	2 46	23 56	0 16	4 39	1 42	4 37	14 38	4 58	4 45	12 11		n.a.
S 18	9 34	0 54	1 41	1 46	2 45	7 5	0 58	10 22	1 24	15 59	1 30	4 25	2 46	23 56	0 16	4 39	1 42	4 37	14 38	4 58	4 43	12 12		n.a.
S 19	9 55	2s56	0 36	1 42	2 52	7 34	0 57	10 5	1 24	15 59	1 30	4 24	2 46	23 56	0 16	4 38	1 42	4 36	14 38	4 58	4 42	12 14		n.a.
M20	10 16	6 37	0n30	1 35	2 58	8 4	0 55	9 48	1 24	15 59	1 29	4 22	2 46	23 56	0 16	4 37	1 42	4 36	14 38	4 58	4 41	12 15		n.a.
T 21	10 37	10 1	1 34	1 25	3 3	8 33	0 53	9 31	1 24	15 59	1 29	4 20	2 46	23 56	0 16	4 36	1 42	4 35	14 38	4 58	4 40	12 16		n.a.
W22	10 58	13 1	2 34	1 14	3 7	9 2	0 51	9 14	1 24	15 59	1 29	4 19	2 46	23 56	0 16	4 36	1 42	4 35	14 38	4 58	4 38	12 18		n.a.
T 23	11 19	15 28	3 27	1 0	3 10	9 31	0 49	8 57	1 25	15 59	1 29	4 17	2 46	23 56	0 17	4 35	1 42	4 34	14 38	4 57	4 37	12 19		n.a.
F 24	11 39	17 17	4 12	0 43	3 13	10 0	0 47	8 39	1 25	15 58	1 28	4 16	2 46	23 56	0 17	4 34	1 42	4 34	14 38	4 56	4 36	12 21		n.a.
S 25	11 59	18 20	4 46	0 25	3 15	10 28	0 45	8 22	1 25	15 58	1 28	4 14	2 46	23 55	0 17	4 34	1 42	4 33	14 38	4 55	4 35	12 22		n.a.
S 26	12 20	18 35	5 7	0 4	3 16	10 56	0 43	8 5	1 25	15 57	1 28	4 12	2 46	23 55	0 17	4 33	1 42	4 33	14 38	4 53	4 33	12 23		n.a.
M27	12 40	17 58	5 15	0n18	3 16	11 24	0 41	7 47	1 25	15 57	1 28	4 11	2 46	23 55	0 17	4 32	1 42	4 32	14 38	4 53	4 32	12 25		n.a.
T 28	12 59	16 28	5 9	0 43	3 15	11 52	0 39	7 30	1 25	15 56	1 28	4 9	2 46	23 55	0 17	4 32	1 42	4 32	14 38	4 52	4 31	12 26		n.a.
W29	13 19	14 7	4 47	1 9	3 14	12 19	0 37	7 13	1 25	15 55	1 27	4 8	2 45	23 55	0 17	4 31	1 42	4 31	14 38	4 52	4 30	12 28		n.a.
T 30	13n38	11s 0	4n 9	1n37	3s12	12n46	0s35	6s55	1s25	15n55	1n27	4s 6	2n45	23s55	0s17	4s30	1s42	4s31	14s38	4s52	4s28	12s29		n.a.

Julian Day Number = 1682066.5, Delta T = 03h14m57s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'12, Lahiri = - 5°26'11 Julian Calendar 1 Apr. 108 BCE == Greg. Calendar 29 March 108 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

MAY 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 23 23	6♉51'34	3♓47	12♈33	6♉10	16♓41	21♌23	16°R40	26°R 2	22♓42	23♈ 7	12♎13	11♎ 8	9♏33	n.a.	F 1
S 2	14 27 19	7°48'57	17°50	13°46	7°24	17°25	21°25	16♎36	26♐ 1	22°43	23° 9	12°14	11° 5	9°39	n.a.	S 2
S 3	14 31 16	8°46'19	2♈18	15° 1	8°38	18°10	21°27	16°32	26° 0	22°45	23°10	12°15	11° 1	9°46	n.a.	S 3
M 4	14 35 13	9°43'41	17° 9	16°20	9°51	18°54	21°30	16°28	25°58	22°47	23°11	12°R15	10°58	9°53	n.a.	M 4
T 5	14 39 9	10°41'02	2♉15	17°41	11° 5	19°39	21°32	16°24	25°57	22°48	23°13	12°14	10°55	9°59	n.a.	T 5
W 6	14 43 6	11°38'22	17°28	19° 5	12°19	20°23	21°35	16°20	25°56	22°50	23°14	12°12	10°52	10° 6	n.a.	W 6
T 7	14 47 2	12°35'41	2♊38	20°32	13°32	21° 8	21°37	16°17	25°54	22°52	23°15	12° 8	10°49	10°13	n.a.	T 7
F 8	14 50 59	13°32'59	17°36	22° 1	14°46	21°52	21°40	16°13	25°52	22°53	23°17	12° 4	10°46	10°19	n.a.	F 8
S 9	14 54 55	14°30'16	2♋14	23°33	16° 0	22°36	21°43	16° 9	25°51	22°55	23°18	12° 0	10°42	10°26	n.a.	S 9
S 10	14 58 52	15°27'32	16°25	25° 8	17°13	23°21	21°47	16° 6	25°49	22°56	23°19	11°56	10°39	10°33	n.a.	S 10
M11	15 2 48	16°24'48	0♌ 9	26°46	18°27	24° 5	21°50	16° 2	25°48	22°58	23°20	11°53	10°36	10°39	n.a.	M11
T 12	15 6 45	17°22'02	13°25	28°26	19°41	24°49	21°54	15°59	25°46	22°59	23°22	11°D52	10°33	10°46	n.a.	T 12
W13	15 10 42	18°19'15	26°16	0♍ 9	20°54	25°33	21°58	15°55	25°44	23° 1	23°23	11°52	10°30	10°53	n.a.	W13
T 14	15 14 38	19°16'27	8♍46	1°54	22° 8	26°17	22° 2	15°52	25°42	23° 2	23°24	11°54	10°27	10°59	n.a.	T 14
F 15	15 18 35	20°13'38	21° 0	3°43	23°22	27° 1	22° 6	15°49	25°41	23° 4	23°25	11°55	10°23	11° 6	n.a.	F 15
S 16	15 22 31	21°10'49	3♎ 1	5°33	24°35	27°45	22°10	15°45	25°39	23° 5	23°27	11°56	10°20	11°13	n.a.	S 16
S 17	15 26 28	22° 7'58	14°55	7°26	25°49	28°28	22°14	15°42	25°37	23° 7	23°28	11°R57	10°17	11°19	n.a.	S 17
M18	15 30 24	23° 5'08	26°44	9°22	27° 3	29°12	22°19	15°39	25°35	23° 8	23°29	11°56	10°14	11°26	n.a.	M18
T 19	15 34 21	24° 2'16	8♏32	11°20	28°16	29°56	22°24	15°36	25°33	23° 9	23°30	11°52	10°11	11°33	n.a.	T 19
W20	15 38 17	24°59'24	20°22	13°20	29°30	0♈39	22°29	15°33	25°31	23°10	23°31	11°47	10° 7	11°39	n.a.	W20
T 21	15 42 14	25°56'32	2♐15	15°22	0♊44	1°23	22°34	15°30	25°29	23°12	23°33	11°41	10° 4	11°46	n.a.	T 21
F 22	15 46 11	26°53'39	14°14	17°26	1°57	2° 6	22°39	15°27	25°27	23°13	23°34	11°33	10° 1	11°53	n.a.	F 22
S 23	15 50 7	27°50'46	26°19	19°32	3°11	2°50	22°44	15°25	25°25	23°14	23°35	11°24	9°58	11°59	n.a.	S 23
S 24	15 54 4	28°47'53	8♑33	21°39	4°25	3°33	22°50	15°22	25°23	23°15	23°36	11°16	9°55	12° 6	n.a.	S 24
M25	15 58 0	29°44'59	20°58	23°48	5°38	4°16	22°55	15°20	25°21	23°17	23°37	11° 9	9°52	12°13	n.a.	M25
T 26	16 1 57	0♊42'06	3♒35	25°57	6°52	4°59	23° 1	15°17	25°19	23°18	23°38	11° 4	9°48	12°19	n.a.	T 26
W27	16 5 53	1°39'13	16°28	28° 8	8° 6	5°42	23° 7	15°15	25°17	23°19	23°39	11° 1	9°45	12°26	n.a.	W27
T 28	16 9 50	2°36'19	29°38	0♊18	9°19	6°25	23°13	15°12	25°15	23°20	23°41	11°D 0	9°42	12°33	n.a.	T 28
F 29	16 13 46	3°33'26	13♓ 8	2°29	10°33	7° 8	23°19	15°10	25°13	23°21	23°42	11° 0	9°39	12°39	n.a.	F 29
S 30	16 17 43	4°30'33	27° 1	4°40	11°47	7°51	23°26	15° 8	25°10	23°22	23°43	11° 1	9°36	12°46	n.a.	S 30
S 31	16 21 40	5♊27'40	11♈17	6♊50	13♊ 0	8♈34	23♌32	15♎ 6	25♐ 8	23♓23	23♈44	11°R 2	9♎32	12♏53	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13n57	7s11	3n16	2n 7	3s 9	13n13	0s32	6s37	1s25	15n54	1n27	4s 5	2n45	23s55	0s17	4s30	1s42	4s30	14s38	4s53	4s27	12s30		n.a.
S 2	14 16	2 52	2 10	2 38	3 6	13 39	0 30	6 20	1 25	15 53	1 27	4 3	2 45	23 55	0 17	4 29	1 42	4 30	14 38	4 53	4 26	12 32		n.a.
S 3	14 35	1n46	0 55	3 11	3 2	14 6	0 28	6 2	1 26	15 52	1 26	4 2	2 45	23 55	0 17	4 28	1 42	4 30	14 38	4 54	4 25	12 33		n.a.
M 4	14 53	6 24	0s27	3 46	2 57	14 31	0 26	5 45	1 26	15 51	1 26	4 1	2 45	23 55	0 17	4 28	1 42	4 29	14 38	4 54	4 23	12 34		n.a.
T 5	15 12	10 42	1 48	4 22	2 52	14 57	0 24	5 27	1 26	15 50	1 26	3 59	2 45	23 55	0 17	4 27	1 42	4 29	14 38	4 53	4 22	12 36		n.a.
W 6	15 30	14 20	3 1	5 0	2 46	15 22	0 21	5 9	1 26	15 49	1 26	3 58	2 45	23 55	0 17	4 26	1 42	4 28	14 38	4 52	4 21	12 37		n.a.
T 7	15 47	16 58	4 2	5 38	2 40	15 47	0 19	4 52	1 26	15 48	1 26	3 57	2 44	23 55	0 17	4 26	1 42	4 28	14 38	4 51	4 20	12 39		n.a.
F 8	16 5	18 24	4 45	6 19	2 33	16 11	0 17	4 34	1 26	15 47	1 25	3 55	2 44	23 55	0 17	4 25	1 42	4 27	14 38	4 49	4 18	12 40		n.a.
S 9	16 22	18 33	5 8	7 0	2 25	16 35	0 14	4 16	1 26	15 46	1 25	3 54	2 44	23 55	0 17	4 25	1 43	4 27	14 39	4 48	4 17	12 41		n.a.
S 10	16 39	17 32	5 12	7 42	2 17	16 58	0 12	3 59	1 26	15 44	1 25	3 53	2 44	23 55	0 17	4 24	1 43	4 27	14 39	4 46	4 16	12 43		n.a.
M11	16 56	15 30	4 57	8 26	2 9	17 21	0 10	3 41	1 26	15 43	1 25	3 52	2 44	23 55	0 17	4 23	1 43	4 26	14 39	4 45	4 14	12 44		n.a.
T 12	17 12	12 43	4 27	9 10	2 0	17 44	0 7	3 23	1 26	15 42	1 24	3 50	2 44	23 55	0 17	4 23	1 43	4 26	14 39	4 45	4 13	12 45		n.a.
W13	17 28	9 24	3 44	9 56	1 51	18 6	0 5	3 6	1 26	15 40	1 24	3 49	2 43	23 55	0 17	4 22	1 43	4 26	14 39	4 45	4 12	12 47		n.a.
T 14	17 44	5 44	2 51	10 42	1 41	18 28	0 2	2 48	1 25	15 39	1 24	3 48	2 43	23 55	0 17	4 22	1 43	4 25	14 39	4 45	4 11	12 48		n.a.
F 15	18 0	1 54	1 52	11 28	1 31	18 49	0 0	2 30	1 25	15 37	1 24	3 47	2 43	23 55	0 17	4 21	1 43	4 25	14 39	4 46	4 9	12 49		n.a.
S 16	18 15	1s57	0 48	12 15	1 20	19 10	0n 2	2 13	1 25	15 36	1 24	3 46	2 43	23 55	0 17	4 21	1 43	4 25	14 39	4 46	4 8	12 51		n.a.
S 17	18 30	5 42	0n16	13 3	1 10	19 30	0 5	1 55	1 25	15 34	1 23	3 45	2 43	23 55	0 17	4 20	1 43	4 24	14 39	4 46	4 7	12 52		n.a.
M18	18 45	9 11	1 20	13 51	0 59	19 50	0 7	1 37	1 25	15 32	1 23	3 44	2 43	23 55	0 17	4 20	1 43	4 24	14 39	4 46	4 6	12 53		n.a.
T 19	18 59	12 18	2 19	14 38	0 48	20 9	0 9	1 20	1 25	15 30	1 23	3 43	2 42	23 55	0 17	4 19	1 43	4 24	14 40	4 45	4 4	12 55		n.a.
W20	19 14	14 56	3 13	15 26	0 37	20 28	0 12	1 2	1 25	15 29	1 23	3 42	2 42	23 55	0 17	4 19	1 43	4 23	14 40	4 43	4 3	12 56		n.a.
T 21	19 27	16 57	3 59	16 13	0 26	20 46	0 14	0 44	1 25	15 27	1 23	3 41	2 42	23 55	0 17	4 18	1 43	4 23	14 40	4 40	4 2	12 57		n.a.
F 22	19 41	18 14	4 34	16 59	0 15	21 3	0 16	0 27	1 25	15 25	1 22	3 40	2 42	23 55	0 17	4 18	1 43	4 23	14 40	4 37	4 1	12 59		n.a.
S 23	19 54	18 42	4 57	17 45	0 4	21 20	0 19	0 9	1 25	15 23	1 22	3 39	2 42	23 55	0 17	4 18	1 43	4 22	14 40	4 34	3 59	13 0		n.a.
S 24	20 7	18 19	5 7	18 30	0n 7	21 36	0 21	0n 8	1 24	15 21	1 22	3 38	2 41	23 55	0 17	4 17	1 43	4 22	14 40	4 30	3 58	13 1		n.a.
M25	20 19	17 3	5 3	19 13	0 18	21 52	0 23	0 26	1 24	15 19	1 22	3 38	2 41	23 54	0 17	4 17	1 43	4 22	14 40	4 28	3 57	13 3		n.a.
T 26	20 31	14 57	4 45	19 55	0 28	22 7	0 26	0 43	1 24	15 17	1 22	3 37	2 41	23 54	0 17	4 16	1 43	4 22	14 41	4 26	3 56	13 4		n.a.
W27	20 43	12 5	4 11	20 35	0 38	22 22	0 28	1 0	1 24	15 15	1 21	3 36	2 41	23 54	0 17	4 16	1 44	4 21	14 41	4 24	3 54	13 5		n.a.
T 28	20 55	8 33	3 24	21 13	0 48	22 36	0 30	1 18	1 24	15 12	1 21	3 35	2 40	23 54	0 17	4 16	1 44	4 21	14 41	4 24	3 53	13 7		n.a.
F 29	21 6	4 29	2 24	21 49	0 57	22 49	0 33	1 35	1 24	15 10	1 21	3 35	2 40	23 54	0 17	4 15	1 44	4 21	14 41	4 24	3 52	13 8		n.a.
S 30	21 17	0 4	1 15	22 23	1 5	23 1	0 35	1 52	1 23	15 8	1 21	3 34	2 40	23 54	0 17	4 15	1 44	4 21	14 41	4 24	3 51	13 9		n.a.
S 31	21n27	4n29	0s 1	22n54	1n13	23n13	0n37	2n10	1s23	15n 5	1n21	3s34	2n40	23s54	0s17	4s14	1s44	4s20	14s41	4s25	3s49	13s11		n.a.

Julian Day Number = 1682096.5, Delta T = 03h14m56s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'07, Lahiri = - 5°26'07 Julian Calendar 1 May 108 BCE == Greg. Calendar 28 Apr. 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

JUNE 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 25 36	6♊24'47	25♈54	9♊ 0	14♊14	9♈17	23♌39	15°R 4	25°R 6	23♓24	23♈45	11°R 1	9♎29	12♏59	n.a.	M 1
T 2	16 29 33	7°21'55	10♉49	11° 9	15°28	9°59	23°45	15♎ 2	25♐ 4	23°25	23°46	10♎58	9°26	13° 6	n.a.	T 2
W 3	16 33 29	8°19'03	25°55	13°17	16°41	10°42	23°52	15° 0	25° 1	23°26	23°47	10°53	9°23	13°13	n.a.	W 3
T 4	16 37 26	9°16'11	11♊ 2	15°24	17°55	11°24	23°59	14°58	24°59	23°26	23°48	10°45	9°20	13°19	n.a.	T 4
F 5	16 41 22	10°13'19	26° 1	17°29	19° 9	12° 7	24° 6	14°57	24°57	23°27	23°49	10°37	9°17	13°26	n.a.	F 5
S 6	16 45 19	11°10'27	10♋43	19°33	20°23	12°49	24°14	14°55	24°54	23°28	23°50	10°28	9°13	13°33	n.a.	S 6
S 7	16 49 16	12° 7'36	25° 1	21°35	21°36	13°31	24°21	14°54	24°52	23°29	23°51	10°19	9°10	13°39	n.a.	S 7
M 8	16 53 12	13° 4'44	8♌50	23°36	22°50	14°13	24°29	14°53	24°50	23°30	23°52	10°13	9° 7	13°46	n.a.	M 8
T 9	16 57 9	14° 1'52	22°11	25°35	24° 4	14°55	24°36	14°51	24°47	23°30	23°53	10° 9	9° 4	13°53	n.a.	T 9
W10	17 1 5	14°59'00	5♍ 4	27°32	25°17	15°37	24°44	14°50	24°45	23°31	23°54	10° 7	9° 1	13°59	n.a.	W10
T 11	17 5 2	15°56'08	17°35	29°27	26°31	16°19	24°52	14°49	24°43	23°32	23°55	10°D 6	8°58	14° 6	n.a.	T 11
F 12	17 8 58	16°53'16	29°47	1♋20	27°45	17° 1	25° 0	14°48	24°40	23°32	23°55	10° 7	8°54	14°13	n.a.	F 12
S 13	17 12 55	17°50'24	11♎46	3°11	28°59	17°42	25° 8	14°47	24°38	23°33	23°56	10°R 7	8°51	14°19	n.a.	S 13
S 14	17 16 51	18°47'32	23°38	5° 1	0♋12	18°24	25°16	14°46	24°36	23°33	23°57	10° 6	8°48	14°26	n.a.	S 14
M15	17 20 48	19°44'40	5♏26	6°48	1°26	19° 5	25°25	14°46	24°33	23°34	23°58	10° 3	8°45	14°33	n.a.	M15
T 16	17 24 45	20°41'49	17°15	8°34	2°40	19°47	25°33	14°45	24°31	23°34	23°59	9°58	8°42	14°39	n.a.	T 16
W17	17 28 41	21°38'58	29° 8	10°18	3°53	20°28	25°42	14°45	24°28	23°35	24° 0	9°50	8°38	14°46	n.a.	W17
T 18	17 32 38	22°36'08	11♐ 7	12° 0	5° 7	21° 9	25°50	14°44	24°26	23°35	24° 0	9°40	8°35	14°53	n.a.	T 18
F 19	17 36 34	23°33'18	23°15	13°40	6°21	21°51	25°59	14°44	24°24	23°35	24° 1	9°28	8°32	14°59	n.a.	F 19
S 20	17 40 31	24°30'29	5♑33	15°18	7°34	22°32	26° 8	14°44	24°21	23°36	24° 2	9°15	8°29	15° 6	n.a.	S 20
S 21	17 44 27	25°27'40	18° 1	16°55	8°48	23°12	26°17	14°44	24°19	23°36	24° 3	9° 3	8°26	15°13	n.a.	S 21
M22	17 48 24	26°24'52	0♒40	18°29	10° 2	23°53	26°26	14°D44	24°16	23°36	24° 3	8°52	8°23	15°20	n.a.	M22
T 23	17 52 20	27°22'05	13°29	20° 1	11°16	24°34	26°36	14°44	24°14	23°37	24° 4	8°43	8°19	15°26	n.a.	T 23
W24	17 56 17	28°19'19	26°31	21°32	12°29	25°15	26°45	14°44	24°11	23°37	24° 5	8°38	8°16	15°33	n.a.	W24
T 25	18 0 14	29°16'34	9♓47	23° 1	13°43	25°55	26°54	14°44	24° 9	23°37	24° 6	8°34	8°13	15°40	n.a.	T 25
F 26	18 4 10	0♋13'50	23°17	24°28	14°57	26°36	27° 4	14°44	24° 7	23°37	24° 6	8°33	8°10	15°46	n.a.	F 26
S 27	18 8 7	1°11'06	7♈ 4	25°52	16°10	27°16	27°13	14°45	24° 4	23°37	24° 7	8°33	8° 7	15°53	n.a.	S 27
S 28	18 12 3	2° 8'24	21° 9	27°15	17°24	27°56	27°23	14°45	24° 2	23°37	24° 7	8°33	8° 4	16° 0	n.a.	S 28
M29	18 16 0	3° 5'44	5♉30	28°36	18°38	28°36	27°33	14°46	23°59	23°37	24° 8	8°31	8° 0	16° 6	n.a.	M29
T 30	18 19 56	4♋ 3'04	20♉ 7	29♋55	19♋52	29♈17	27♌43	14♎47	23♐57	23°R38	24♈ 9	8♎27	7♎57	16♏13	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	21n37	8n53	1s19	23n22	1n20	23n25	0n39	2n27	1s23	15n 3	1n20	3s33	2n39	23s54	0s17	4s14	1s44	4s20	14s42	4s24	3s48	13s12		n.a.	M 1
T 2	21 47	12 49	2 33	23 48	1 27	23 35	0 41	2 44	1 23	15 1	1 20	3 33	2 39	23 54	0 17	4 14	1 44	4 20	14 42	4 23	3 47	13 13		n.a.	T 2
W 3	21 56	15 56	3 37	24 11	1 33	23 45	0 43	3 1	1 23	14 58	1 20	3 32	2 39	23 54	0 17	4 14	1 44	4 20	14 42	4 21	3 45	13 15		n.a.	W 3
T 4	22 5	17 58	4 25	24 31	1 38	23 54	0 46	3 18	1 22	14 56	1 20	3 32	2 39	23 54	0 17	4 13	1 44	4 20	14 42	4 18	3 44	13 16		n.a.	T 4
F 5	22 14	18 44	4 55	24 49	1 43	24 3	0 48	3 35	1 22	14 53	1 20	3 31	2 38	23 54	0 17	4 13	1 44	4 19	14 42	4 15	3 43	13 17		n.a.	F 5
S 6	22 22	18 12	5 5	25 4	1 47	24 11	0 50	3 52	1 22	14 50	1 19	3 31	2 38	23 54	0 17	4 13	1 44	4 19	14 42	4 11	3 42	13 18		n.a.	S 6
S 7	22 30	16 32	4 55	25 15	1 50	24 18	0 52	4 9	1 22	14 48	1 19	3 30	2 38	23 54	0 17	4 12	1 44	4 19	14 43	4 8	3 40	13 20		n.a.	S 7
M 8	22 37	13 56	4 28	25 25	1 52	24 24	0 54	4 25	1 21	14 45	1 19	3 30	2 38	23 53	0 17	4 12	1 44	4 19	14 43	4 5	3 39	13 21		n.a.	M 8
T 9	22 44	10 42	3 47	25 31	1 54	24 30	0 56	4 42	1 21	14 42	1 19	3 30	2 37	23 53	0 17	4 12	1 44	4 19	14 43	4 4	3 38	13 22		n.a.	T 9
W10	22 51	7 2	2 56	25 36	1 55	24 35	0 58	4 59	1 21	14 39	1 19	3 30	2 37	23 53	0 17	4 12	1 44	4 19	14 43	4 3	3 37	13 24		n.a.	W10
T 11	22 57	3 10	1 57	25 37	1 55	24 39	0 59	5 15	1 20	14 37	1 19	3 30	2 37	23 53	0 17	4 12	1 44	4 19	14 44	4 3	3 35	13 25		n.a.	T 11
F 12	23 3	0s45	0 55	25 37	1 55	24 42	1 1	5 31	1 20	14 34	1 18	3 29	2 37	23 53	0 17	4 11	1 45	4 18	14 44	4 3	3 34	13 26		n.a.	F 12
S 13	23 9	4 34	0n 9	25 34	1 54	24 45	1 3	5 48	1 20	14 31	1 18	3 29	2 36	23 53	0 17	4 11	1 45	4 18	14 44	4 3	3 33	13 28		n.a.	S 13
S 14	23 14	8 10	1 11	25 29	1 52	24 47	1 5	6 4	1 19	14 28	1 18	3 29	2 36	23 53	0 17	4 11	1 45	4 18	14 44	4 3	3 32	13 29		n.a.	S 14
M15	23 18	11 26	2 10	25 22	1 50	24 48	1 6	6 20	1 19	14 25	1 18	3 29	2 36	23 53	0 17	4 11	1 45	4 18	14 44	4 1	3 30	13 30		n.a.	M15
T 16	23 23	14 14	3 4	25 13	1 48	24 49	1 8	6 36	1 19	14 22	1 18	3 29	2 36	23 53	0 17	4 11	1 45	4 18	14 45	3 59	3 29	13 31		n.a.	T 16
W17	23 26	16 27	3 49	25 2	1 44	24 48	1 10	6 52	1 18	14 19	1 18	3 29	2 35	23 53	0 17	4 11	1 45	4 18	14 45	3 56	3 28	13 33		n.a.	W17
T 18	23 30	17 59	4 25	24 49	1 40	24 47	1 11	7 8	1 18	14 16	1 17	3 29	2 35	23 53	0 17	4 11	1 45	4 18	14 45	3 52	3 27	13 34		n.a.	T 18
F 19	23 33	18 43	4 49	24 35	1 36	24 46	1 13	7 24	1 18	14 12	1 17	3 29	2 35	23 53	0 17	4 11	1 45	4 18	14 45	3 47	3 25	13 35		n.a.	F 19
S 20	23 35	18 35	5 0	24 20	1 31	24 43	1 14	7 40	1 17	14 9	1 17	3 30	2 35	23 52	0 17	4 10	1 45	4 18	14 46	3 42	3 24	13 36		n.a.	S 20
S 21	23 38	17 34	4 57	24 3	1 26	24 40	1 16	7 56	1 17	14 6	1 17	3 30	2 34	23 52	0 17	4 10	1 45	4 18	14 46	3 37	3 23	13 38		n.a.	S 21
M22	23 39	15 41	4 40	23 44	1 20	24 36	1 17	8 11	1 16	14 3	1 17	3 30	2 34	23 52	0 17	4 10	1 45	4 18	14 46	3 33	3 21	13 39		n.a.	M22
T 23	23 41	13 0	4 8	23 25	1 14	24 31	1 18	8 27	1 16	13 59	1 17	3 30	2 34	23 52	0 17	4 10	1 45	4 18	14 46	3 30	3 20	13 40		n.a.	T 23
W24	23 42	9 38	3 23	23 4	1 7	24 26	1 19	8 42	1 16	13 56	1 16	3 31	2 34	23 52	0 17	4 10	1 45	4 18	14 46	3 27	3 19	13 42		n.a.	W24
T 25	23 42	5 44	2 26	22 42	1 0	24 19	1 21	8 57	1 15	13 53	1 16	3 31	2 33	23 52	0 17	4 10	1 45	4 18	14 47	3 26	3 18	13 43		n.a.	T 25
F 26	23 42	1 28	1 20	22 20	0 53	24 13	1 22	9 13	1 15	13 49	1 16	3 31	2 33	23 52	0 17	4 10	1 45	4 18	14 47	3 26	3 16	13 44		n.a.	F 26
S 27	23 42	2n57	0 8	21 57	0 45	24 5	1 23	9 28	1 14	13 46	1 16	3 32	2 33	23 52	0 17	4 10	1 45	4 18	14 47	3 26	3 15	13 45		n.a.	S 27
S 28	23 41	7 19	1s 6	21 32	0 37	23 57	1 24	9 43	1 14	13 42	1 16	3 32	2 32	23 52	0 17	4 10	1 46	4 18	14 47	3 26	3 14	13 47		n.a.	S 28
M29	23 40	11 21	2 17	21 8	0 28	23 47	1 25	9 57	1 13	13 39	1 16	3 33	2 32	23 52	0 17	4 10	1 46	4 18	14 48	3 25	3 13	13 48		n.a.	M29
T 30	23n39	14n45	3s21	20n42	0n19	23n38	1n26	10n12	1s13	13n35	1n16	3s33	2n32	23s51	0s18	4s10	1s46	4s18	14s48	3s23	3s11	13s49		n.a.	T 30

Julian Day Number = 1682127.5, Delta T = 03h14m55s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°33'03, Lahiri = - 5°26'03 Julian Calendar 1 June 108 BCE == Greg. Calendar 29 May 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

JULY 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 23 53	5♋ 0'26	4♊53	1♌11	21♋ 5	29♈56	27♌53	14♎48	23°R55	23°R37	24♈ 9	8°R20	7♎54	16♏20	n.a.	W 1
T 2	18 27 49	5°57'49	19°44	2°26	22°19	0♉36	28° 3	14°49	23♐52	23♓37	24°10	8♎11	7°51	16°26	n.a.	T 2
F 3	18 31 46	6°55'13	4♋30	3°38	23°33	1°16	28°13	14°50	23°50	23°37	24°10	8° 0	7°48	16°33	n.a.	F 3
S 4	18 35 43	7°52'38	19° 2	4°48	24°46	1°56	28°23	14°51	23°48	23°37	24°11	7°49	7°44	16°40	n.a.	S 4
S 5	18 39 39	8°50'04	3♌15	5°55	26° 0	2°35	28°34	14°52	23°45	23°37	24°11	7°38	7°41	16°46	n.a.	S 5
M 6	18 43 36	9°47'31	17° 3	7° 0	27°14	3°14	28°44	14°53	23°43	23°37	24°12	7°29	7°38	16°53	n.a.	M 6
T 7	18 47 32	10°44'59	0♍24	8° 3	28°28	3°54	28°55	14°55	23°41	23°37	24°12	7°23	7°35	17° 0	n.a.	T 7
W 8	18 51 29	11°42'27	13°19	9° 3	29°41	4°33	29° 5	14°56	23°39	23°36	24°13	7°19	7°32	17° 6	n.a.	W 8
T 9	18 55 25	12°39'57	25°51	10° 0	0♌55	5°12	29°16	14°58	23°36	23°36	24°13	7°18	7°29	17°13	n.a.	T 9
F 10	18 59 22	13°37'27	8♎ 4	10°54	2° 9	5°51	29°26	15° 0	23°34	23°36	24°13	7°17	7°25	17°20	n.a.	F 10
S 11	19 3 18	14°34'59	20° 4	11°45	3°22	6°29	29°37	15° 1	23°32	23°36	24°14	7°17	7°22	17°26	n.a.	S 11
S 12	19 7 15	15°32'31	1♏56	12°32	4°36	7° 8	29°48	15° 3	23°30	23°35	24°14	7°17	7°19	17°33	n.a.	S 12
M13	19 11 12	16°30'05	13°45	13°16	5°50	7°46	29°59	15° 5	23°28	23°35	24°14	7°14	7°16	17°40	n.a.	M13
T 14	19 15 8	17°27'40	25°37	13°57	7° 3	8°25	0♍10	15° 7	23°25	23°34	24°15	7° 9	7°13	17°46	n.a.	T 14
W15	19 19 5	18°25'16	7♐34	14°34	8°17	9° 3	0°21	15° 9	23°23	23°34	24°15	7° 1	7°10	17°53	n.a.	W15
T 16	19 23 1	19°22'53	19°41	15° 7	9°31	9°41	0°32	15°12	23°21	23°33	24°15	6°51	7° 6	18° 0	n.a.	T 16
F 17	19 26 58	20°20'31	2♑ 0	15°35	10°44	10°19	0°44	15°14	23°19	23°33	24°15	6°39	7° 3	18° 6	n.a.	F 17
S 18	19 30 54	21°18'11	14°31	16° 0	11°58	10°57	0°55	15°16	23°17	23°32	24°16	6°26	7° 0	18°13	n.a.	S 18
S 19	19 34 51	22°15'52	27°16	16°19	13°12	11°35	1° 6	15°19	23°15	23°32	24°16	6°14	6°57	18°20	n.a.	S 19
M20	19 38 47	23°13'34	10♒13	16°34	14°25	12°12	1°18	15°22	23°13	23°31	24°16	6° 3	6°54	18°26	n.a.	M20
T 21	19 42 44	24°11'18	23°23	16°43	15°39	12°50	1°29	15°24	23°11	23°30	24°16	5°55	6°50	18°33	n.a.	T 21
W22	19 46 41	25° 9'04	6♓43	16°R47	16°53	13°27	1°41	15°27	23° 9	23°30	24°16	5°49	6°47	18°40	n.a.	W22
T 23	19 50 37	26° 6'52	20°14	16°46	18° 6	14° 4	1°53	15°30	23° 7	23°29	24°16	5°46	6°44	18°47	n.a.	T 23
F 24	19 54 34	27° 4'41	3♈55	16°39	19°20	14°41	2° 4	15°33	23° 5	23°28	24°17	5°D45	6°41	18°53	n.a.	F 24
S 25	19 58 30	28° 2'32	17°46	16°26	20°33	15°18	2°16	15°36	23° 4	23°28	24°17	5°46	6°38	19° 0	n.a.	S 25
S 26	20 2 27	29° 0'25	1♉47	16° 7	21°47	15°55	2°28	15°39	23° 2	23°27	24°17	5°R46	6°35	19° 7	n.a.	S 26
M27	20 6 23	29°58'20	15°58	15°42	23° 1	16°32	2°40	15°42	23° 0	23°26	24°17	5°45	6°31	19°13	n.a.	M27
T 28	20 10 20	0♌56'17	0♊17	15°12	24°14	17° 8	2°52	15°46	22°58	23°25	24°R17	5°42	6°28	19°20	n.a.	T 28
W29	20 14 16	1°54'16	14°42	14°36	25°28	17°45	3° 3	15°49	22°57	23°24	24°17	5°36	6°25	19°27	n.a.	W29
T 30	20 18 13	2°52'17	29° 7	13°54	26°41	18°21	3°15	15°52	22°55	23°23	24°17	5°29	6°22	19°33	n.a.	T 30
F 31	20 22 10	3♌50'20	13♋29	13♌ 8	27♌55	18♉57	3♍28	15♎56	22♐53	23♓22	24♈17	5♎19	6♎19	19♏40	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	23n37	17n14	4s12	20n17	0n10	23n27	1n26	10n27	1s12	13n31	1n16	3s34	2n32	23s51	0s18	4s10	1s46	4s18	14s48	3s21	3s10	13s50			n.a.
T 2	23 34	18 34	4 45	19 51	0 0	23 16	1 27	10 41	1 12	13 28	1 15	3 35	2 31	23 51	0 18	4 10	1 46	4 18	14 49	3 17	3 9	13 51			n.a.
F 3	23 31	18 38	5 0	19 24	0s 9	23 4	1 28	10 56	1 11	13 24	1 15	3 35	2 31	23 51	0 18	4 11	1 46	4 18	14 49	3 13	3 8	13 53			n.a.
S 4	23 28	17 28	4 55	18 58	0 19	22 51	1 28	11 10	1 11	13 20	1 15	3 36	2 31	23 51	0 18	4 11	1 46	4 18	14 49	3 8	3 6	13 54			n.a.
S 5	23 24	15 15	4 32	18 31	0 30	22 38	1 29	11 24	1 10	13 17	1 15	3 37	2 31	23 51	0 18	4 11	1 46	4 18	14 49	3 4	3 5	13 55			n.a.
M 6	23 20	12 12	3 53	18 4	0 40	22 24	1 29	11 38	1 10	13 13	1 15	3 37	2 30	23 51	0 18	4 11	1 46	4 18	14 50	3 0	3 4	13 56			n.a.
T 7	23 16	8 37	3 2	17 38	0 51	22 10	1 30	11 52	1 9	13 9	1 15	3 38	2 30	23 51	0 18	4 11	1 46	4 18	14 50	2 58	3 2	13 58			n.a.
W 8	23 11	4 44	2 3	17 12	1 2	21 55	1 30	12 6	1 9	13 5	1 15	3 39	2 30	23 51	0 18	4 11	1 46	4 18	14 50	2 56	3 1	13 59			n.a.
T 9	23 6	0 45	1 0	16 46	1 13	21 39	1 31	12 20	1 8	13 1	1 15	3 40	2 29	23 50	0 18	4 11	1 46	4 18	14 50	2 56	3 0	14 0			n.a.
F 10	23 0	3s10	0n 4	16 20	1 25	21 22	1 31	12 33	1 8	12 57	1 14	3 41	2 29	23 50	0 18	4 12	1 46	4 19	14 51	2 55	2 59	14 1			n.a.
S 11	22 54	6 54	1 7	15 55	1 36	21 5	1 31	12 47	1 7	12 53	1 14	3 42	2 29	23 50	0 18	4 12	1 46	4 19	14 51	2 55	2 57	14 3			n.a.
S 12	22 47	10 18	2 7	15 30	1 48	20 48	1 31	13 0	1 6	12 49	1 14	3 43	2 29	23 50	0 18	4 12	1 46	4 19	14 51	2 55	2 56	14 4			n.a.
M13	22 40	13 17	3 0	15 7	2 0	20 29	1 31	13 13	1 6	12 45	1 14	3 44	2 28	23 50	0 18	4 12	1 47	4 19	14 52	2 54	2 55	14 5			n.a.
T 14	22 33	15 43	3 46	14 44	2 11	20 11	1 31	13 26	1 5	12 41	1 14	3 45	2 28	23 50	0 18	4 12	1 47	4 19	14 52	2 52	2 54	14 6			n.a.
W15	22 25	17 30	4 23	14 22	2 23	19 51	1 31	13 39	1 4	12 37	1 14	3 46	2 28	23 50	0 18	4 13	1 47	4 19	14 52	2 49	2 52	14 7			n.a.
T 16	22 17	18 31	4 48	14 1	2 35	19 31	1 31	13 52	1 4	12 33	1 14	3 47	2 28	23 50	0 18	4 13	1 47	4 19	14 52	2 45	2 51	14 9			n.a.
F 17	22 9	18 41	5 0	13 42	2 46	19 11	1 30	14 5	1 3	12 29	1 14	3 48	2 27	23 50	0 18	4 13	1 47	4 20	14 53	2 40	2 50	14 10			n.a.
S 18	22 0	17 58	4 58	13 24	2 58	18 50	1 30	14 17	1 3	12 25	1 14	3 49	2 27	23 50	0 18	4 13	1 47	4 20	14 53	2 35	2 49	14 11			n.a.
S 19	21 51	16 20	4 41	13 7	3 9	18 28	1 30	14 30	1 2	12 21	1 13	3 51	2 27	23 49	0 18	4 14	1 47	4 20	14 53	2 30	2 47	14 12			n.a.
M20	21 41	13 52	4 10	12 52	3 20	18 6	1 29	14 42	1 1	12 16	1 13	3 52	2 27	23 49	0 18	4 14	1 47	4 20	14 53	2 26	2 46	14 13			n.a.
T 21	21 31	10 39	3 25	12 39	3 30	17 44	1 29	14 54	1 1	12 12	1 13	3 53	2 26	23 49	0 18	4 14	1 47	4 20	14 54	2 23	2 45	14 15			n.a.
W22	21 20	6 51	2 28	12 29	3 40	17 21	1 28	15 6	1 0	12 8	1 13	3 54	2 26	23 49	0 18	4 15	1 47	4 21	14 54	2 20	2 43	14 16			n.a.
T 23	21 10	2 40	1 22	12 20	3 50	16 57	1 27	15 18	0 59	12 4	1 13	3 56	2 26	23 49	0 18	4 15	1 47	4 21	14 54	2 19	2 42	14 17			n.a.
F 24	20 59	1n43	0 10	12 14	3 59	16 33	1 27	15 30	0 58	11 59	1 13	3 57	2 26	23 49	0 18	4 15	1 47	4 21	14 55	2 19	2 41	14 18			n.a.
S 25	20 47	6 4	1s 4	12 10	4 7	16 9	1 26	15 41	0 58	11 55	1 13	3 59	2 25	23 49	0 18	4 16	1 47	4 21	14 55	2 19	2 40	14 19			n.a.
S 26	20 35	10 8	2 14	12 9	4 14	15 44	1 25	15 53	0 57	11 51	1 13	4 0	2 25	23 49	0 18	4 16	1 47	4 22	14 55	2 19	2 38	14 21			n.a.
M27	20 23	13 40	3 17	12 11	4 19	15 19	1 24	16 4	0 56	11 46	1 13	4 1	2 25	23 49	0 18	4 16	1 47	4 22	14 55	2 18	2 37	14 22			n.a.
T 28	20 10	16 23	4 8	12 15	4 24	14 53	1 23	16 15	0 55	11 42	1 13	4 3	2 25	23 49	0 18	4 17	1 47	4 22	14 56	2 17	2 36	14 23			n.a.
W29	19 57	18 7	4 44	12 22	4 27	14 27	1 22	16 26	0 55	11 37	1 13	4 5	2 24	23 48	0 18	4 17	1 47	4 22	14 56	2 15	2 35	14 24			n.a.
T 30	19 44	18 40	5 2	12 33	4 29	14 1	1 20	16 37	0 54	11 33	1 13	4 6	2 24	23 48	0 18	4 18	1 47	4 23	14 56	2 12	2 33	14 25			n.a.
F 31	19n30	18n 1	5s 1	12n46	4s29	13n34	1n19	16n48	0s53	11n28	1n12	4s 8	2n24	23s48	0s18	4s18	1s48	4s23	14s57	2s 8	2s32	14s26			n.a.

Julian Day Number = 1682157.5, Delta T = 03h14m54s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'59, Lahiri = - 5°25'59 Julian Calendar 1 July 108 BCE == Greg. Calendar 28 June 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

AUGUST 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 26 6	4♌48'25	27♋40	12°R18	29♌ 8	19♉33	3♍40	16♎ 0	22°R52	23°R21	24°R17	5°R 9	6♎16	19♏47	n.a.	S 1
S 2	20 30 3	5°46'32	11♌35	11♌24	0♍22	20° 8	3°52	16° 3	22♐50	23♓20	24♈16	5♎ 0	6°12	19°53	n.a.	S 2
M 3	20 33 59	6°44'40	25°11	10°28	1°36	20°44	4° 4	16° 7	22°49	23°19	24°16	4°53	6° 9	20° 0	n.a.	M 3
T 4	20 37 56	7°42'50	8♍24	9°31	2°49	21°19	4°16	16°11	22°47	23°18	24°16	4°47	6° 6	20° 7	n.a.	T 4
W 5	20 41 52	8°41'01	21°16	8°33	4° 3	21°54	4°29	16°15	22°46	23°17	24°16	4°44	6° 3	20°13	n.a.	W 5
T 6	20 45 49	9°39'15	3♎47	7°37	5°16	22°29	4°41	16°19	22°44	23°16	24°16	4°D43	6° 0	20°20	n.a.	T 6
F 7	20 49 45	10°37'29	16° 0	6°42	6°30	23° 4	4°53	16°23	22°43	23°15	24°16	4°44	5°56	20°27	n.a.	F 7
S 8	20 53 42	11°35'46	28° 1	5°52	7°43	23°39	5° 6	16°27	22°42	23°14	24°15	4°45	5°53	20°33	n.a.	S 8
S 9	20 57 39	12°34'04	9♏54	5° 6	8°56	24°13	5°18	16°32	22°40	23°13	24°15	4°R46	5°50	20°40	n.a.	S 9
M10	21 1 35	13°32'24	21°45	4°26	10°10	24°47	5°31	16°36	22°39	23°12	24°15	4°45	5°47	20°47	n.a.	M10
T 11	21 5 32	14°30'46	3♐38	3°53	11°23	25°21	5°43	16°40	22°38	23°10	24°15	4°43	5°44	20°53	n.a.	T 11
W12	21 9 28	15°29'09	15°38	3°28	12°37	25°55	5°56	16°45	22°37	23° 9	24°14	4°39	5°41	21° 0	n.a.	W12
T 13	21 13 25	16°27'34	27°49	3°11	13°50	26°29	6° 8	16°49	22°36	23° 8	24°14	4°33	5°37	21° 7	n.a.	T 13
F 14	21 17 21	17°26'01	10♑15	3°D 3	15° 3	27° 2	6°21	16°54	22°34	23° 7	24°14	4°26	5°34	21°14	n.a.	F 14
S 15	21 21 18	18°24'29	22°58	3° 4	16°17	27°36	6°34	16°59	22°33	23° 5	24°13	4°17	5°31	21°20	n.a.	S 15
S 16	21 25 14	19°23'00	5♒58	3°15	17°30	28° 9	6°46	17° 3	22°32	23° 4	24°13	4° 9	5°28	21°27	n.a.	S 16
M17	21 29 11	20°21'32	19°16	3°35	18°43	28°42	6°59	17° 8	22°32	23° 3	24°13	4° 3	5°25	21°34	n.a.	M17
T 18	21 33 8	21°20'06	2♓48	4° 4	19°57	29°14	7°12	17°13	22°31	23° 1	24°12	3°57	5°22	21°40	n.a.	T 18
W19	21 37 4	22°18'43	16°33	4°42	21°10	29°47	7°25	17°18	22°30	23° 0	24°12	3°54	5°18	21°47	n.a.	W19
T 20	21 41 1	23°17'21	0♈28	5°28	22°23	0♊19	7°37	17°23	22°29	22°59	24°11	3°D53	5°15	21°54	n.a.	T 20
F 21	21 44 57	24°16'02	14°30	6°23	23°37	0°51	7°50	17°28	22°28	22°57	24°11	3°53	5°12	22° 0	n.a.	F 21
S 22	21 48 54	25°14'45	28°37	7°25	24°50	1°23	8° 3	17°33	22°28	22°56	24°10	3°54	5° 9	22° 7	n.a.	S 22
S 23	21 52 50	26°13'31	12♉47	8°34	26° 3	1°55	8°16	17°39	22°27	22°54	24°10	3°56	5° 6	22°14	n.a.	S 23
M24	21 56 47	27°12'19	26°57	9°49	27°16	2°26	8°29	17°44	22°26	22°53	24° 9	3°R56	5° 2	22°20	n.a.	M24
T 25	22 0 43	28°11'09	11♊ 7	11°10	28°29	2°57	8°42	17°49	22°26	22°51	24° 9	3°56	4°59	22°27	n.a.	T 25
W26	22 4 40	29°10'02	25°14	12°35	29°42	3°28	8°55	17°55	22°25	22°50	24° 8	3°53	4°56	22°34	n.a.	W26
T 27	22 8 36	0♍ 8'57	9♋16	14° 6	0♎56	3°59	9° 8	18° 0	22°25	22°48	24° 8	3°50	4°53	22°40	n.a.	T 27
F 28	22 12 33	1° 7'55	23°10	15°40	2° 9	4°29	9°21	18° 5	22°24	22°47	24° 7	3°45	4°50	22°47	n.a.	F 28
S 29	22 16 30	2° 6'55	6♌54	17°17	3°22	4°59	9°34	18°11	22°24	22°45	24° 6	3°40	4°47	22°54	n.a.	S 29
S 30	22 20 26	3° 5'57	20°24	18°57	4°35	5°29	9°47	18°17	22°24	22°44	24° 6	3°35	4°43	23° 1	n.a.	S 30
M31	22 24 23	4♍ 5'01	3♍39	20♌38	5♎48	5♊59	10♍ 0	18♎22	22♐23	22♓42	24♈ 5	3♎31	4♎40	23♏ 7	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n16	16n16	4s41	13n 2	4s27	13n 7	1n18	16n58	0s52	11n24	1n12	4s 9	2n24	23s48	0s18	4s19	1s48	4s23	14s57	2s 4	2s31	14s28		n.a.
S 2	19 2	13 35	4 5	13 20	4 23	12 39	1 17	17 9	0 52	11 19	1 12	4 11	2 23	23 48	0 18	4 19	1 48	4 23	14 57	2 1	2 29	14 29		n.a.
M 3	18 48	10 12	3 15	13 41	4 18	12 12	1 15	17 19	0 51	11 15	1 12	4 13	2 23	23 48	0 18	4 19	1 48	4 24	14 57	1 58	2 28	14 30		n.a.
T 4	18 33	6 24	2 16	14 3	4 10	11 43	1 14	17 29	0 50	11 10	1 12	4 14	2 23	23 48	0 18	4 20	1 48	4 24	14 58	1 55	2 27	14 31		n.a.
W 5	18 17	2 24	1 12	14 27	4 0	11 15	1 12	17 39	0 49	11 6	1 12	4 16	2 23	23 48	0 18	4 20	1 48	4 24	14 58	1 54	2 26	14 32		n.a.
T 6	18 2	1s36	0 5	14 53	3 49	10 46	1 10	17 49	0 48	11 1	1 12	4 18	2 22	23 48	0 18	4 21	1 48	4 25	14 58	1 54	2 24	14 33		n.a.
F 7	17 46	5 26	1n 0	15 19	3 36	10 17	1 9	17 59	0 47	10 56	1 12	4 20	2 22	23 48	0 18	4 21	1 48	4 25	14 59	1 54	2 23	14 35		n.a.
S 8	17 30	8 59	2 2	15 46	3 21	9 48	1 7	18 9	0 46	10 52	1 12	4 22	2 22	23 48	0 18	4 22	1 48	4 25	14 59	1 54	2 22	14 36		n.a.
S 9	17 13	12 8	2 58	16 13	3 5	9 19	1 5	18 18	0 46	10 47	1 12	4 23	2 22	23 48	0 18	4 22	1 48	4 26	14 59	1 55	2 21	14 37		n.a.
M10	16 57	14 46	3 46	16 39	2 48	8 49	1 3	18 27	0 45	10 42	1 12	4 25	2 21	23 47	0 18	4 23	1 48	4 26	14 59	1 55	2 19	14 38		n.a.
T 11	16 40	16 47	4 24	17 4	2 30	8 19	1 1	18 36	0 44	10 38	1 12	4 27	2 21	23 47	0 18	4 23	1 48	4 26	15 0	1 54	2 18	14 39		n.a.
W12	16 22	18 6	4 51	17 28	2 11	7 49	0 59	18 45	0 43	10 33	1 12	4 29	2 21	23 47	0 18	4 24	1 48	4 27	15 0	1 52	2 17	14 40		n.a.
T 13	16 5	18 36	5 6	17 50	1 52	7 18	0 57	18 54	0 42	10 28	1 12	4 31	2 21	23 47	0 18	4 24	1 48	4 27	15 0	1 50	2 15	14 42		n.a.
F 14	15 47	18 13	5 6	18 11	1 33	6 48	0 55	19 3	0 41	10 23	1 12	4 33	2 21	23 47	0 18	4 25	1 48	4 27	15 0	1 47	2 14	14 43		n.a.
S 15	15 29	16 56	4 52	18 29	1 15	6 17	0 53	19 12	0 40	10 19	1 12	4 35	2 20	23 47	0 18	4 26	1 48	4 28	15 1	1 43	2 13	14 44		n.a.
S 16	15 10	14 45	4 22	18 44	0 56	5 46	0 50	19 20	0 39	10 14	1 12	4 37	2 20	23 47	0 18	4 26	1 48	4 28	15 1	1 40	2 12	14 45		n.a.
M17	14 52	11 46	3 38	18 57	0 38	5 15	0 48	19 28	0 38	10 9	1 12	4 39	2 20	23 47	0 18	4 27	1 48	4 29	15 1	1 37	2 10	14 46		n.a.
T 18	14 33	8 6	2 40	19 7	0 21	4 44	0 46	19 37	0 37	10 4	1 12	4 41	2 20	23 47	0 18	4 27	1 48	4 29	15 1	1 35	2 9	14 47		n.a.
W19	14 14	3 57	1 33	19 14	0 5	4 12	0 43	19 45	0 36	9 59	1 12	4 43	2 20	23 47	0 18	4 28	1 48	4 29	15 2	1 34	2 8	14 48		n.a.
T 20	13 54	0n28	0 19	19 17	0n11	3 41	0 41	19 52	0 35	9 54	1 12	4 45	2 19	23 47	0 17	4 28	1 48	4 30	15 2	1 33	2 7	14 49		n.a.
F 21	13 35	4 54	0s58	19 18	0 25	3 9	0 38	20 0	0 34	9 50	1 11	4 47	2 19	23 47	0 17	4 29	1 48	4 30	15 2	1 34	2 5	14 51		n.a.
S 22	13 15	9 4	2 11	19 15	0 39	2 37	0 36	20 8	0 33	9 45	1 11	4 50	2 19	23 47	0 17	4 30	1 49	4 31	15 2	1 34	2 4	14 52		n.a.
S 23	12 55	12 44	3 16	19 8	0 51	2 6	0 33	20 15	0 32	9 40	1 11	4 52	2 19	23 47	0 17	4 30	1 49	4 31	15 3	1 35	2 3	14 53		n.a.
M24	12 35	15 39	4 9	18 59	1 2	1 34	0 31	20 23	0 31	9 35	1 11	4 54	2 19	23 47	0 17	4 31	1 49	4 31	15 3	1 35	2 1	14 54		n.a.
T 25	12 14	17 37	4 48	18 46	1 12	1 2	0 28	20 30	0 30	9 30	1 11	4 56	2 18	23 47	0 17	4 32	1 49	4 32	15 3	1 35	2 0	14 55		n.a.
W26	11 53	18 29	5 8	18 30	1 20	0 30	0 25	20 37	0 29	9 25	1 11	4 58	2 18	23 47	0 17	4 32	1 49	4 32	15 3	1 34	1 59	14 56		n.a.
T 27	11 33	18 13	5 10	18 11	1 28	0s 2	0 22	20 44	0 27	9 20	1 11	5 1	2 18	23 47	0 17	4 33	1 49	4 33	15 4	1 32	1 58	14 57		n.a.
F 28	11 12	16 51	4 54	17 49	1 35	0 34	0 20	20 51	0 26	9 15	1 11	5 3	2 18	23 47	0 17	4 33	1 49	4 33	15 4	1 30	1 56	14 58		n.a.
S 29	10 50	14 32	4 21	17 25	1 40	1 6	0 17	20 57	0 25	9 10	1 11	5 5	2 18	23 47	0 17	4 34	1 49	4 34	15 4	1 28	1 55	15 0		n.a.
S 30	10 29	11 28	3 34	16 58	1 44	1 38	0 14	21 4	0 24	9 5	1 11	5 8	2 18	23 46	0 17	4 35	1 49	4 34	15 4	1 26	1 54	15 1		n.a.
M31	10n 7	7n51	2s36	16n28	1n48	2s10	0n11	21n10	0s23	9n 0	1n11	5s10	2n17	23s46	0s17	4s35	1s49	4s34	15s 5	1s25	1s53	15s 2		n.a.

Julian Day Number = 1682188.5, Delta T = 03h14m53s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'55, Lahiri = - 5°25'54 Julian Calendar 1 Aug. 108 BCE == Greg. Calendar 29 July 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

SEPTEMBER 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 28 19	5♍ 4'08	16♍37	22♌22	7♎ 1	6♊28	10♍13	18♎28	22°R23	22°R41	24°R 4	3°R28	4♎37	23♏14	n.a.	T 1
W 2	22 32 16	6° 3'16	29°18	24° 7	8°14	6°57	10°26	18°34	22♐23	22♓39	24♈ 4	3°D27	4°34	23°21	n.a.	W 2
T 3	22 36 12	7° 2'26	11♎42	25°53	9°27	7°26	10°39	18°40	22°23	22°37	24° 3	3♎27	4°31	23°27	n.a.	T 3
F 4	22 40 9	8° 1'39	23°53	27°39	10°40	7°55	10°52	18°46	22°23	22°36	24° 2	3°29	4°27	23°34	n.a.	F 4
S 5	22 44 5	9° 0'53	5♏53	29°26	11°53	8°23	11° 5	18°52	22°D23	22°34	24° 1	3°30	4°24	23°41	n.a.	S 5
S 6	22 48 2	10° 0'10	17°46	1♍14	13° 6	8°51	11°18	18°58	22°23	22°32	24° 1	3°32	4°21	23°47	n.a.	S 6
M 7	22 51 58	10°59'28	29°37	3° 1	14°19	9°18	11°31	19° 4	22°23	22°31	24° 0	3°33	4°18	23°54	n.a.	M 7
T 8	22 55 55	11°58'48	11♐29	4°48	15°32	9°46	11°44	19°10	22°23	22°29	23°59	3°R34	4°15	24° 1	n.a.	T 8
W 9	22 59 52	12°58'10	23°29	6°35	16°44	10°13	11°57	19°16	22°23	22°28	23°58	3°33	4°12	24° 7	n.a.	W 9
T 10	23 3 48	13°57'34	5♉41	8°21	17°57	10°39	12°10	19°22	22°24	22°26	23°57	3°32	4° 8	24°14	n.a.	T 10
F 11	23 7 45	14°57'00	18° 8	10° 7	19°10	11° 6	12°23	19°28	22°24	22°24	23°57	3°30	4° 5	24°21	n.a.	F 11
S 12	23 11 41	15°56'28	0♒55	11°53	20°23	11°32	12°36	19°34	22°24	22°23	23°56	3°27	4° 2	24°28	n.a.	S 12
S 13	23 15 38	16°55'58	14° 4	13°38	21°35	11°57	12°49	19°41	22°25	22°21	23°55	3°25	3°59	24°34	n.a.	S 13
M14	23 19 34	17°55'29	27°34	15°22	22°48	12°23	13° 2	19°47	22°25	22°19	23°54	3°23	3°56	24°41	n.a.	M14
T 15	23 23 31	18°55'03	11♓25	17° 6	24° 1	12°48	13°15	19°53	22°26	22°18	23°53	3°21	3°53	24°48	n.a.	T 15
W16	23 27 27	19°54'38	25°34	18°49	25°13	13°12	13°28	20° 0	22°26	22°16	23°52	3°20	3°49	24°54	n.a.	W16
T 17	23 31 24	20°54'16	9♈56	20°31	26°26	13°36	13°42	20° 6	22°27	22°14	23°51	3°D20	3°46	25° 1	n.a.	T 17
F 18	23 35 21	21°53'56	24°26	22°13	27°38	14° 0	13°55	20°13	22°28	22°12	23°50	3°21	3°43	25° 8	n.a.	F 18
S 19	23 39 17	22°53'38	8♉59	23°54	28°51	14°24	14° 8	20°19	22°28	22°11	23°49	3°22	3°40	25°14	n.a.	S 19
S 20	23 43 14	23°53'23	23°29	25°35	0♏ 3	14°47	14°20	20°26	22°29	22° 9	23°49	3°23	3°37	25°21	n.a.	S 20
M21	23 47 10	24°53'10	7♊52	27°15	1°16	15°10	14°33	20°32	22°30	22° 7	23°48	3°23	3°33	25°28	n.a.	M21
T 22	23 51 7	25°53'00	22° 5	28°54	2°28	15°32	14°46	20°39	22°31	22° 6	23°47	3°R24	3°30	25°34	n.a.	T 22
W23	23 55 3	26°52'52	6♋ 5	0♎33	3°41	15°54	14°59	20°46	22°32	22° 4	23°46	3°24	3°27	25°41	n.a.	W23
T 24	23 59 0	27°52'46	19°52	2°11	4°53	16°15	15°12	20°52	22°33	22° 2	23°45	3°23	3°24	25°48	n.a.	T 24
F 25	0 2 56	28°52'42	3♌25	3°48	6° 5	16°36	15°25	20°59	22°34	22° 1	23°44	3°23	3°21	25°55	n.a.	F 25
S 26	0 6 53	29°52'41	16°43	5°25	7°18	16°57	15°38	21° 6	22°35	21°59	23°43	3°22	3°18	26° 1	n.a.	S 26
S 27	0 10 50	0♎52'42	29°48	7° 2	8°30	17°17	15°51	21°13	22°36	21°57	23°42	3°22	3°14	26° 8	n.a.	S 27
M28	0 14 46	1°52'45	12♍39	8°38	9°42	17°37	16° 4	21°19	22°37	21°56	23°41	3°22	3°11	26°15	n.a.	M28
T 29	0 18 43	2°52'50	25°17	10°13	10°54	17°56	16°17	21°26	22°38	21°54	23°39	3°22	3° 8	26°21	n.a.	T 29
W30	0 22 39	3♎52'57	7♎43	11♎48	12♏ 6	18♊15	16♍29	21♎33	22♐40	21♓52	23♈38	3♎22	3♎ 5	26♏28	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n45	3n57	1s31	15n57	1n51	2s42	0n 8	21n17	0s22	8n55	1n11	5s12	2n17	23s46	0s17	4s36	1s49	4s35	15s 5	1s24	1s51	15s 3		n.a.
W 2	9 23	0s 4	0 23	15 23	1 52	3 14	0 5	21 23	0 20	8 50	1 11	5 15	2 17	23 46	0 17	4 37	1 49	4 35	15 5	1 23	1 50	15 4		n.a.
T 3	9 1	3 59	0n45	14 48	1 53	3 45	0 2	21 29	0 19	8 45	1 11	5 17	2 17	23 46	0 17	4 37	1 49	4 36	15 5	1 23	1 49	15 5		n.a.
F 4	8 39	7 40	1 50	14 11	1 53	4 17	0s 1	21 35	0 18	8 40	1 11	5 19	2 17	23 46	0 17	4 38	1 49	4 36	15 5	1 24	1 47	15 6		n.a.
S 5	8 17	10 58	2 49	13 33	1 53	4 49	0 4	21 40	0 17	8 35	1 11	5 22	2 17	23 46	0 17	4 39	1 49	4 37	15 6	1 25	1 46	15 7		n.a.
S 6	7 54	13 48	3 40	12 54	1 52	5 20	0 7	21 46	0 15	8 30	1 11	5 24	2 16	23 46	0 17	4 39	1 49	4 37	15 6	1 25	1 45	15 8		n.a.
M 7	7 31	16 2	4 22	12 13	1 50	5 52	0 10	21 52	0 14	8 25	1 11	5 27	2 16	23 46	0 17	4 40	1 49	4 38	15 6	1 26	1 44	15 9		n.a.
T 8	7 9	17 35	4 53	11 31	1 47	6 23	0 14	21 57	0 13	8 20	1 11	5 29	2 16	23 46	0 17	4 41	1 49	4 38	15 6	1 26	1 42	15 10		n.a.
W 9	6 46	18 22	5 11	10 49	1 45	6 54	0 17	22 2	0 11	8 15	1 11	5 32	2 16	23 46	0 17	4 41	1 49	4 38	15 6	1 26	1 41	15 12		n.a.
T 10	6 23	18 20	5 15	10 6	1 41	7 25	0 20	22 8	0 10	8 10	1 11	5 34	2 16	23 46	0 17	4 42	1 49	4 39	15 7	1 25	1 40	15 13		n.a.
F 11	6 0	17 25	5 5	9 22	1 38	7 56	0 23	22 13	0 9	8 5	1 11	5 37	2 16	23 46	0 17	4 43	1 49	4 39	15 7	1 24	1 39	15 14		n.a.
S 12	5 36	15 37	4 40	8 37	1 34	8 27	0 26	22 18	0 7	8 0	1 12	5 39	2 16	23 46	0 17	4 43	1 49	4 40	15 7	1 23	1 37	15 15		n.a.
S 13	5 13	12 58	4 0	7 53	1 29	8 58	0 30	22 23	0 6	7 55	1 12	5 42	2 15	23 46	0 17	4 44	1 49	4 40	15 7	1 22	1 36	15 16		n.a.
M14	4 49	9 33	3 5	7 8	1 25	9 28	0 33	22 27	0 4	7 50	1 12	5 44	2 15	23 46	0 17	4 45	1 49	4 41	15 7	1 21	1 35	15 17		n.a.
T 15	4 26	5 32	1 58	6 22	1 20	9 58	0 36	22 32	0 3	7 45	1 12	5 47	2 15	23 47	0 17	4 45	1 49	4 41	15 7	1 21	1 33	15 18		n.a.
W16	4 2	1 8	0 43	5 37	1 15	10 28	0 39	22 37	0 2	7 40	1 12	5 49	2 15	23 47	0 17	4 46	1 49	4 42	15 8	1 21	1 32	15 19		n.a.
T 17	3 39	3n25	0s36	4 51	1 9	10 58	0 42	22 41	0 0	7 35	1 12	5 52	2 15	23 47	0 17	4 47	1 49	4 42	15 8	1 21	1 31	15 20		n.a.
F 18	3 15	7 48	1 54	4 5	1 3	11 28	0 46	22 46	0n 1	7 30	1 12	5 54	2 15	23 47	0 17	4 47	1 49	4 43	15 8	1 21	1 30	15 21		n.a.
S 19	2 51	11 44	3 5	3 20	0 58	11 57	0 49	22 50	0 3	7 25	1 12	5 57	2 15	23 47	0 17	4 48	1 49	4 43	15 8	1 21	1 28	15 22		n.a.
S 20	2 27	14 55	4 4	2 34	0 52	12 26	0 52	22 54	0 5	7 20	1 12	6 0	2 15	23 47	0 17	4 49	1 49	4 44	15 8	1 21	1 27	15 23		n.a.
M21	2 3	17 9	4 47	1 48	0 46	12 54	0 55	22 58	0 6	7 15	1 12	6 2	2 14	23 47	0 17	4 50	1 49	4 44	15 8	1 22	1 26	15 24		n.a.
T 22	1 39	18 17	5 11	1 2	0 39	13 23	0 59	23 2	0 8	7 10	1 12	6 5	2 14	23 47	0 17	4 50	1 49	4 44	15 8	1 22	1 24	15 25		n.a.
W23	1 15	18 17	5 17	0 17	0 33	13 51	1 2	23 6	0 9	7 5	1 12	6 7	2 14	23 47	0 17	4 51	1 49	4 45	15 8	1 22	1 23	15 26		n.a.
T 24	0 51	17 12	5 4	0s28	0 26	14 19	1 5	23 10	0 11	7 0	1 12	6 10	2 14	23 47	0 17	4 52	1 49	4 45	15 9	1 22	1 22	15 27		n.a.
F 25	0 27	15 9	4 35	1 13	0 20	14 46	1 8	23 14	0 13	6 55	1 12	6 13	2 14	23 47	0 17	4 52	1 49	4 46	15 9	1 21	1 21	15 28		n.a.
S 26	0 3	12 20	3 51	1 58	0 13	15 13	1 11	23 18	0 14	6 50	1 12	6 15	2 14	23 47	0 17	4 53	1 49	4 46	15 9	1 21	1 19	15 29		n.a.
S 27	0s21	8 56	2 56	2 43	0 7	15 40	1 14	23 21	0 16	6 45	1 12	6 18	2 14	23 47	0 17	4 53	1 49	4 47	15 9	1 21	1 18	15 31		n.a.
M28	0 45	5 9	1 53	3 27	0 0	16 6	1 18	23 25	0 18	6 40	1 12	6 21	2 14	23 47	0 17	4 54	1 49	4 47	15 9	1 21	1 17	15 32		n.a.
T 29	1 9	1 13	0 45	4 11	0s 7	16 32	1 21	23 29	0 20	6 35	1 12	6 23	2 14	23 47	0 17	4 55	1 49	4 48	15 9	1 21	1 16	15 33		n.a.
W30	1s34	2s43	0n24	4s55	0s13	16s58	1s24	23n32	0n21	6n30	1n12	6s26	2n14	23s47	0s17	4s55	1s49	4s48	15s 9	1s21	1s14	15s34		n.a.

Julian Day Number = 1682219.5, Delta T = 03h14m52s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'51, Lahiri = - 5°25'50 Julian Calendar 1 Sept. 108 BCE == Greg. Calendar 29 Aug. 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

OCTOBER 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 26 36	4♎53'06	19♎57	13♎22	13♏18	18♊33	16♍42	21♎40	22♐41	21°R51	23°R37	3°R22	3♎ 2	26♏35	n.a.	T 1
F 2	0 30 32	5°53'17	2♏ 2	14°56	14°30	18°50	16°55	21°47	22°42	21♓49	23♈36	3♎21	2°58	26°41	n.a.	F 2
S 3	0 34 29	6°53'30	13°58	16°29	15°42	19° 7	17° 8	21°54	22°44	21°48	23°35	3°21	2°55	26°48	n.a.	S 3
S 4	0 38 25	7°53'44	25°50	18° 2	16°54	19°24	17°20	22° 1	22°45	21°46	23°34	3°20	2°52	26°55	n.a.	S 4
M 5	0 42 22	8°54'00	7♐40	19°35	18° 6	19°40	17°33	22° 8	22°47	21°44	23°33	3°20	2°49	27° 1	n.a.	M 5
T 6	0 46 18	9°54'18	19°31	21° 7	19°18	19°56	17°45	22°15	22°48	21°43	23°32	3°19	2°46	27° 8	n.a.	T 6
W 7	0 50 15	10°54'38	1♑29	22°39	20°30	20°11	17°58	22°22	22°50	21°41	23°31	3°19	2°43	27°15	n.a.	W 7
T 8	0 54 12	11°54'59	13°38	24°10	21°42	20°25	18°11	22°29	22°51	21°40	23°30	3°D18	2°39	27°22	n.a.	T 8
F 9	0 58 8	12°55'21	26° 1	25°41	22°53	20°39	18°23	22°36	22°53	21°38	23°29	3°19	2°36	27°28	n.a.	F 9
S 10	1 2 5	13°55'46	8♒44	27°12	24° 5	20°52	18°35	22°43	22°55	21°37	23°28	3°19	2°33	27°35	n.a.	S 10
S 11	1 6 1	14°56'11	21°50	28°42	25°17	21° 5	18°48	22°50	22°57	21°35	23°26	3°20	2°30	27°42	n.a.	S 11
M12	1 9 58	15°56'38	5♓22	0♏11	26°28	21°17	19° 0	22°57	22°59	21°34	23°25	3°22	2°27	27°48	n.a.	M12
T 13	1 13 54	16°57'07	19°20	1°41	27°40	21°28	19°13	23° 4	23° 0	21°32	23°24	3°22	2°24	27°55	n.a.	T 13
W14	1 17 51	17°57'37	3♈42	3°10	28°51	21°39	19°25	23°11	23° 2	21°31	23°23	3°R23	2°20	28° 2	n.a.	W14
T 15	1 21 47	18°58'08	18°24	4°38	0♐ 2	21°49	19°37	23°18	23° 4	21°29	23°22	3°22	2°17	28° 8	n.a.	T 15
F 16	1 25 44	19°58'41	3♉20	6° 6	1°14	21°58	19°49	23°25	23° 6	21°28	23°21	3°21	2°14	28°15	n.a.	F 16
S 17	1 29 41	20°59'17	18°20	7°33	2°25	22° 7	20° 1	23°32	23° 8	21°26	23°20	3°19	2°11	28°22	n.a.	S 17
S 18	1 33 37	21°59'53	3♊17	9° 0	3°36	22°15	20°13	23°39	23°10	21°25	23°19	3°17	2° 8	28°29	n.a.	S 18
M19	1 37 34	23° 0'32	18° 3	10°26	4°47	22°22	20°25	23°46	23°13	21°23	23°17	3°14	2° 4	28°35	n.a.	M19
T 20	1 41 30	24° 1'12	2♋30	11°52	5°58	22°29	20°37	23°53	23°15	21°22	23°16	3°12	2° 1	28°42	n.a.	T 20
W21	1 45 27	25° 1'55	16°37	13°17	7° 9	22°35	20°49	24° 0	23°17	21°21	23°15	3°11	1°58	28°49	n.a.	W21
T 22	1 49 23	26° 2'39	0♌21	14°41	8°19	22°40	21° 1	24° 7	23°19	21°19	23°14	3°D11	1°55	28°55	n.a.	T 22
F 23	1 53 20	27° 3'25	13°43	16° 4	9°30	22°44	21°13	24°14	23°22	21°18	23°13	3°12	1°52	29° 2	n.a.	F 23
S 24	1 57 16	28° 4'12	26°46	17°26	10°41	22°48	21°25	24°21	23°24	21°17	23°12	3°13	1°49	29° 9	n.a.	S 24
S 25	2 1 13	29° 5'01	9♍32	18°47	11°51	22°51	21°36	24°29	23°26	21°16	23°11	3°15	1°45	29°15	n.a.	S 25
M26	2 5 10	0♏ 5'52	22° 3	20° 7	13° 2	22°53	21°48	24°36	23°29	21°14	23° 9	3°16	1°42	29°22	n.a.	M26
T 27	2 9 6	1° 6'44	4♎23	21°26	14°12	22°54	21°59	24°43	23°31	21°13	23° 8	3°R17	1°39	29°29	n.a.	T 27
W28	2 13 3	2° 7'37	16°34	22°42	15°23	22°R55	22°11	24°50	23°34	21°12	23° 7	3°16	1°36	29°36	n.a.	W28
T 29	2 16 59	3° 8'32	28°37	23°57	16°33	22°54	22°22	24°57	23°36	21°11	23° 6	3°13	1°33	29°42	n.a.	T 29
F 30	2 20 56	4° 9'28	10♏34	25° 9	17°43	22°53	22°34	25° 4	23°39	21°10	23° 5	3° 9	1°29	29°49	n.a.	F 30
S 31	2 24 52	5♏10'26	22♏27	26♏19	18♐53	22♊51	22♍45	25♎11	23♐41	21♓ 8	23♈ 4	3♎ 4	1♎26	29♏56	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	1s58	6s29	1n31	5s38	0s20	17s23	1s27	23n35	0n23	6n25	1n12	6s28	2n14	23s47	0s17	4s56	1s49	4s49	15s 9	1s21	1s13	15s35			n.a.
F 2	2 22	9 55	2 33	6 21	0 27	17 48	1 30	23 39	0 25	6 20	1 12	6 31	2 13	23 47	0 17	4 57	1 49	4 49	15 9	1 21	1 12	15 36			n.a.
S 3	2 46	12 55	3 27	7 4	0 33	18 12	1 33	23 42	0 27	6 15	1 13	6 34	2 13	23 47	0 17	4 57	1 49	4 50	15 9	1 21	1 10	15 37			n.a.
S 4	3 10	15 21	4 12	7 46	0 40	18 36	1 36	23 45	0 29	6 10	1 13	6 36	2 13	23 47	0 17	4 58	1 49	4 50	15 9	1 21	1 9	15 38			n.a.
M 5	3 34	17 8	4 46	8 27	0 46	18 59	1 38	23 48	0 31	6 5	1 13	6 39	2 13	23 48	0 17	4 59	1 49	4 50	15 10	1 20	1 8	15 39			n.a.
T 6	3 58	18 10	5 8	9 9	0 53	19 22	1 41	23 52	0 33	6 0	1 13	6 42	2 13	23 48	0 17	4 59	1 49	4 51	15 10	1 20	1 7	15 40			n.a.
W 7	4 22	18 25	5 17	9 49	0 59	19 45	1 44	23 55	0 35	5 55	1 13	6 44	2 13	23 48	0 17	5 0	1 49	4 51	15 10	1 20	1 5	15 41			n.a.
T 8	4 46	17 49	5 12	10 29	1 5	20 6	1 47	23 58	0 37	5 51	1 13	6 47	2 13	23 48	0 17	5 0	1 49	4 52	15 10	1 20	1 4	15 42			n.a.
F 9	5 9	16 23	4 53	11 9	1 12	20 28	1 50	24 1	0 39	5 46	1 13	6 50	2 13	23 48	0 17	5 1	1 49	4 52	15 10	1 20	1 3	15 43			n.a.
S 10	5 33	14 7	4 19	11 48	1 18	20 49	1 52	24 4	0 41	5 41	1 13	6 52	2 13	23 48	0 17	5 2	1 49	4 53	15 10	1 20	1 2	15 44			n.a.
S 11	5 57	11 4	3 30	12 26	1 24	21 9	1 55	24 7	0 43	5 36	1 13	6 55	2 13	23 48	0 17	5 2	1 49	4 53	15 10	1 21	1 0	15 45			n.a.
M12	6 20	7 20	2 29	13 3	1 29	21 29	1 57	24 10	0 45	5 31	1 13	6 58	2 13	23 48	0 17	5 3	1 49	4 53	15 10	1 21	0 59	15 46			n.a.
T 13	6 44	3 5	1 17	13 40	1 35	21 48	2 0	24 13	0 47	5 26	1 13	7 0	2 13	23 48	0 17	5 3	1 49	4 54	15 10	1 21	0 58	15 47			n.a.
W14	7 7	1n28	0s 2	14 17	1 41	22 7	2 2	24 15	0 49	5 22	1 14	7 3	2 13	23 48	0 17	5 4	1 49	4 54	15 10	1 21	0 56	15 48			n.a.
T 15	7 31	6 2	1 22	14 52	1 46	22 25	2 5	24 18	0 51	5 17	1 14	7 6	2 13	23 48	0 17	5 5	1 49	4 55	15 10	1 21	0 55	15 49			n.a.
F 16	7 54	10 17	2 38	15 27	1 51	22 42	2 7	24 21	0 54	5 12	1 14	7 8	2 13	23 49	0 17	5 5	1 49	4 55	15 10	1 21	0 54	15 50			n.a.
S 17	8 17	13 54	3 44	16 1	1 56	22 59	2 9	24 24	0 56	5 7	1 14	7 11	2 13	23 49	0 17	5 6	1 49	4 55	15 10	1 20	0 53	15 51			n.a.
S 18	8 40	16 34	4 33	16 34	2 1	23 15	2 11	24 27	0 58	5 3	1 14	7 14	2 13	23 49	0 17	5 6	1 49	4 56	15 10	1 19	0 51	15 52			n.a.
M19	9 2	18 6	5 4	17 6	2 5	23 31	2 14	24 29	1 0	4 58	1 14	7 16	2 13	23 49	0 17	5 7	1 49	4 56	15 10	1 18	0 50	15 53			n.a.
T 20	9 25	18 26	5 15	17 37	2 9	23 46	2 16	24 32	1 3	4 53	1 14	7 19	2 13	23 49	0 17	5 7	1 49	4 57	15 10	1 17	0 49	15 54			n.a.
W21	9 48	17 35	5 7	18 7	2 13	24 0	2 18	24 35	1 5	4 49	1 14	7 22	2 13	23 49	0 17	5 8	1 49	4 57	15 10	1 17	0 47	15 55			n.a.
T 22	10 10	15 44	4 41	18 36	2 17	24 14	2 19	24 37	1 8	4 44	1 14	7 24	2 13	23 49	0 17	5 8	1 49	4 57	15 10	1 17	0 46	15 56			n.a.
F 23	10 32	13 4	4 0	19 3	2 20	24 27	2 21	24 40	1 10	4 40	1 14	7 27	2 13	23 49	0 17	5 9	1 49	4 58	15 10	1 17	0 45	15 57			n.a.
S 24	10 54	9 47	3 8	19 30	2 23	24 39	2 23	24 43	1 12	4 35	1 15	7 30	2 13	23 49	0 17	5 9	1 49	4 58	15 10	1 18	0 44	15 58			n.a.
S 25	11 16	6 7	2 7	19 55	2 25	24 51	2 25	24 45	1 15	4 30	1 15	7 32	2 13	23 50	0 17	5 10	1 48	4 58	15 9	1 18	0 42	15 58			n.a.
M26	11 38	2 15	1 1	20 19	2 27	25 2	2 26	24 48	1 17	4 26	1 15	7 35	2 13	23 50	0 17	5 10	1 48	4 59	15 9	1 19	0 41	15 59			n.a.
T 27	11 59	1s40	0n 6	20 42	2 28	25 12	2 28	24 51	1 20	4 21	1 15	7 37	2 13	23 50	0 17	5 11	1 48	4 59	15 9	1 19	0 40	16 0			n.a.
W28	12 21	5 28	1 12	21 3	2 29	25 22	2 29	24 53	1 22	4 17	1 15	7 40	2 13	23 50	0 17	5 11	1 48	4 59	15 9	1 19	0 39	16 1			n.a.
T 29	12 42	9 1	2 14	21 23	2 30	25 30	2 30	24 56	1 25	4 13	1 15	7 43	2 13	23 50	0 17	5 11	1 48	5 0	15 9	1 18	0 37	16 2			n.a.
F 30	13 3	12 9	3 10	21 41	2 29	25 39	2 31	24 58	1 28	4 8	1 15	7 45	2 13	23 50	0 17	5 12	1 48	5 0	15 9	1 16	0 36	16 3			n.a.
S 31	13s23	14s46	3n57	21s57	2s28	25s46	2s32	25n 1	1n30	4n 4	1n16	7s48	2n13	23s50	0s17	5s12	1s48	5s 0	15s 9	1s14	0s35	16s 4			n.a.

Julian Day Number = 1682249.5, Delta T = 03h14m51s
Ecliptic obliquity = 23°42'21, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'47, Lahiri = - 5°25'46 Julian Calendar 1 Oct. 108 BCE == Greg. Calendar 28 Sept. 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

NOVEMBER 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 28 49	6♏11'24	4♐18	27♏26	20♐ 3	22°R48	22♍56	25♎18	23♐44	21°R 7	23°R 3	2°R58	1♎23	0♐ 2	n.a.	S 1
M 2	2 32 45	7°12'24	16° 8	28°30	21°13	22♊45	23° 7	25°25	23°47	21♓ 6	23♈ 2	2♎51	1°20	0° 9	n.a.	M 2
T 3	2 36 42	8°13'24	28° 0	29°30	22°22	22°40	23°18	25°32	23°50	21° 5	23° 1	2°45	1°17	0°16	n.a.	T 3
W 4	2 40 39	9°14'26	9♑58	0♐25	23°32	22°35	23°29	25°39	23°52	21° 4	23° 0	2°40	1°14	0°22	n.a.	W 4
T 5	2 44 35	10°15'28	22° 4	1°16	24°41	22°28	23°40	25°46	23°55	21° 3	22°58	2°36	1°10	0°29	n.a.	T 5
F 6	2 48 32	11°16'31	4♒23	2° 1	25°51	22°21	23°51	25°53	23°58	21° 2	22°57	2°34	1° 7	0°36	n.a.	F 6
S 7	2 52 28	12°17'35	16°59	2°39	27° 0	22°13	24° 1	25°59	24° 1	21° 1	22°56	2°D34	1° 4	0°43	n.a.	S 7
S 8	2 56 25	13°18'39	29°56	3°11	28° 9	22° 5	24°12	26° 6	24° 4	21° 1	22°55	2°35	1° 1	0°49	n.a.	S 8
M 9	3 0 21	14°19'44	13♓19	3°34	29°18	21°55	24°22	26°13	24° 7	21° 0	22°54	2°37	0°58	0°56	n.a.	M 9
T 10	3 4 18	15°20'49	27°10	3°48	0♑26	21°45	24°33	26°20	24° 9	20°59	22°53	2°R38	0°55	1° 3	n.a.	T 10
W11	3 8 14	16°21'55	11♈30	3°R52	1°35	21°33	24°43	26°27	24°12	20°58	22°52	2°37	0°51	1° 9	n.a.	W11
T 12	3 12 11	17°23'01	26°15	3°46	2°44	21°21	24°53	26°34	24°15	20°57	22°51	2°35	0°48	1°16	n.a.	T 12
F 13	3 16 8	18°24'09	11♉21	3°29	3°52	21° 8	25° 4	26°40	24°18	20°57	22°50	2°31	0°45	1°23	n.a.	F 13
S 14	3 20 4	19°25'16	26°38	3° 1	5° 0	20°55	25°14	26°47	24°22	20°56	22°49	2°25	0°42	1°30	n.a.	S 14
S 15	3 24 1	20°26'25	11♊56	2°20	6° 8	20°40	25°24	26°54	24°25	20°55	22°48	2°17	0°39	1°36	n.a.	S 15
M16	3 27 57	21°27'35	27° 3	1°29	7°16	20°25	25°33	27° 0	24°28	20°55	22°47	2°10	0°35	1°43	n.a.	M16
T 17	3 31 54	22°28'45	11♋51	0°27	8°23	20° 9	25°43	27° 7	24°31	20°54	22°46	2° 3	0°32	1°50	n.a.	T 17
W18	3 35 50	23°29'56	26°13	29♏17	9°30	19°52	25°53	27°14	24°34	20°53	22°45	1°57	0°29	1°56	n.a.	W18
T 19	3 39 47	24°31'08	10♌ 6	28° 0	10°38	19°35	26° 2	27°20	24°37	20°53	22°44	1°54	0°26	2° 3	n.a.	T 19
F 20	3 43 43	25°32'20	23°31	26°39	11°45	19°17	26°12	27°27	24°40	20°52	22°43	1°D53	0°23	2°10	n.a.	F 20
S 21	3 47 40	26°33'34	6♍30	25°16	12°51	18°58	26°21	27°33	24°44	20°52	22°42	1°53	0°20	2°16	n.a.	S 21
S 22	3 51 37	27°34'48	19° 8	23°55	13°58	18°39	26°30	27°40	24°47	20°51	22°41	1°54	0°16	2°23	n.a.	S 22
M23	3 55 33	28°36'02	1♎29	22°38	15° 4	18°19	26°39	27°46	24°50	20°51	22°41	1°R55	0°13	2°30	n.a.	M23
T 24	3 59 30	29°37'17	13°38	21°26	16°10	17°58	26°48	27°53	24°53	20°50	22°40	1°54	0°10	2°37	n.a.	T 24
W25	4 3 26	0♐38'33	25°38	20°23	17°16	17°37	26°57	27°59	24°57	20°50	22°39	1°51	0° 7	2°43	n.a.	W25
T 26	4 7 23	1°39'49	7♏32	19°29	18°22	17°15	27° 6	28° 5	25° 0	20°50	22°38	1°45	0° 4	2°50	n.a.	T 26
F 27	4 11 19	2°41'05	19°23	18°46	19°27	16°53	27°15	28°12	25° 3	20°50	22°37	1°37	0° 1	2°57	n.a.	F 27
S 28	4 15 16	3°42'22	1♐14	18°13	20°32	16°31	27°23	28°18	25° 7	20°49	22°36	1°26	29♍57	3° 3	n.a.	S 28
S 29	4 19 12	4°43'39	13° 6	17°51	21°37	16° 8	27°32	28°24	25°10	20°49	22°35	1°13	29°54	3°10	n.a.	S 29
M30	4 23 9	5♐44'55	24♐59	17♏39	22♑42	15♊45	27♍40	28♎30	25♐14	20♓49	22♈35	1♎ 0	29♍51	3♐17	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13 s44	16 s46	4n33	22 s11	2 s27	25 s53	2 s33	25n 3	1n33	4n 0	1n16	7 s50	2n13	23 s50	0 s17	5 s13	1 s48	5 s 1	15 s 9	1 s11	0 s33	16 s 5		n.a.
M 2	14 4	18 2	4 58	22 23	2 24	25 59	2 34	25 6	1 36	3 55	1 16	7 53	2 13	23 51	0 17	5 13	1 48	5 1	15 9	1 9	0 32	16 6		n.a.
T 3	14 24	18 32	5 10	22 33	2 21	26 4	2 35	25 8	1 38	3 51	1 16	7 55	2 13	23 51	0 17	5 13	1 48	5 1	15 9	1 6	0 31	16 7		n.a.
W 4	14 44	18 12	5 8	22 41	2 16	26 8	2 36	25 11	1 41	3 47	1 16	7 58	2 13	23 51	0 17	5 14	1 48	5 2	15 9	1 4	0 30	16 8		n.a.
T 5	15 4	17 3	4 53	22 46	2 11	26 12	2 36	25 13	1 44	3 42	1 16	8 0	2 13	23 51	0 17	5 14	1 48	5 2	15 9	1 3	0 28	16 9		n.a.
F 6	15 23	15 6	4 25	22 49	2 4	26 15	2 37	25 15	1 46	3 38	1 16	8 3	2 13	23 51	0 17	5 14	1 48	5 2	15 8	1 2	0 27	16 10		n.a.
S 7	15 42	12 23	3 43	22 50	1 57	26 17	2 37	25 17	1 49	3 34	1 17	8 5	2 13	23 51	0 17	5 15	1 48	5 2	15 8	1 2	0 26	16 11		n.a.
S 8	16 0	9 0	2 48	22 47	1 48	26 19	2 37	25 20	1 52	3 30	1 17	8 8	2 13	23 51	0 17	5 15	1 48	5 3	15 8	1 2	0 24	16 12		n.a.
M 9	16 19	5 3	1 43	22 41	1 37	26 20	2 37	25 22	1 55	3 26	1 17	8 10	2 13	23 51	0 17	5 15	1 48	5 3	15 8	1 3	0 23	16 13		n.a.
T 10	16 37	0 41	0 30	22 33	1 25	26 20	2 37	25 24	1 57	3 22	1 17	8 13	2 13	23 52	0 17	5 16	1 48	5 3	15 8	1 3	0 22	16 14		n.a.
W11	16 55	3n52	0 s48	22 20	1 12	26 19	2 37	25 26	2 0	3 18	1 17	8 15	2 13	23 52	0 17	5 16	1 48	5 3	15 8	1 3	0 21	16 14		n.a.
T 12	17 13	8 19	2 4	22 5	0 57	26 18	2 37	25 28	2 3	3 14	1 17	8 18	2 13	23 52	0 17	5 16	1 48	5 4	15 8	1 2	0 19	16 15		n.a.
F 13	17 30	12 20	3 14	21 46	0 41	26 15	2 37	25 30	2 6	3 10	1 18	8 20	2 13	23 52	0 17	5 17	1 48	5 4	15 7	1 1	0 18	16 16		n.a.
S 14	17 47	15 34	4 10	21 23	0 24	26 13	2 36	25 32	2 8	3 6	1 18	8 22	2 13	23 52	0 17	5 17	1 48	5 4	15 7	0 58	0 17	16 17		n.a.
S 15	18 3	17 42	4 48	20 57	0 5	26 9	2 35	25 33	2 11	3 2	1 18	8 25	2 13	23 52	0 17	5 17	1 48	5 4	15 7	0 55	0 16	16 18		n.a.
M16	18 20	18 34	5 6	20 27	0n15	26 5	2 35	25 35	2 14	2 59	1 18	8 27	2 13	23 52	0 17	5 17	1 48	5 4	15 7	0 52	0 14	16 19		n.a.
T 17	18 36	18 9	5 3	19 54	0 35	26 0	2 34	25 36	2 17	2 55	1 18	8 29	2 13	23 52	0 17	5 17	1 47	5 5	15 7	0 49	0 13	16 20		n.a.
W18	18 51	16 33	4 40	19 19	0 55	25 54	2 33	25 38	2 19	2 51	1 19	8 32	2 13	23 53	0 17	5 18	1 47	5 5	15 6	0 47	0 12	16 21		n.a.
T 19	19 7	14 2	4 2	18 43	1 15	25 47	2 32	25 39	2 22	2 48	1 19	8 34	2 13	23 53	0 17	5 18	1 47	5 5	15 6	0 46	0 10	16 22		n.a.
F 20	19 22	10 49	3 11	18 5	1 35	25 40	2 30	25 40	2 25	2 44	1 19	8 36	2 13	23 53	0 17	5 18	1 47	5 5	15 6	0 45	0 9	16 23		n.a.
S 21	19 36	7 11	2 12	17 28	1 53	25 33	2 29	25 41	2 27	2 40	1 19	8 39	2 13	23 53	0 17	5 18	1 47	5 5	15 6	0 46	0 8	16 24		n.a.
S 22	19 50	3 18	1 8	16 53	2 9	25 24	2 27	25 42	2 30	2 37	1 19	8 41	2 14	23 53	0 17	5 18	1 47	5 5	15 6	0 46	0 7	16 24		n.a.
M23	20 4	0 s38	0 2	16 19	2 23	25 15	2 25	25 43	2 32	2 33	1 19	8 43	2 14	23 53	0 17	5 18	1 47	5 5	15 5	0 46	0 5	16 25		n.a.
T 24	20 18	4 29	1n 2	15 49	2 35	25 5	2 24	25 44	2 35	2 30	1 20	8 45	2 14	23 53	0 17	5 18	1 47	5 6	15 5	0 46	0 4	16 26		n.a.
W25	20 31	8 6	2 3	15 23	2 45	24 55	2 22	25 44	2 37	2 27	1 20	8 48	2 14	23 54	0 17	5 19	1 47	5 6	15 5	0 45	0 3	16 27		n.a.
T 26	20 43	11 22	2 58	15 2	2 53	24 44	2 19	25 44	2 40	2 23	1 20	8 50	2 14	23 54	0 17	5 19	1 47	5 6	15 5	0 42	0 1	16 28		n.a.
F 27	20 56	14 10	3 45	14 45	2 58	24 32	2 17	25 45	2 42	2 20	1 20	8 52	2 14	23 54	0 17	5 19	1 47	5 6	15 5	0 39	0 0	16 29		n.a.
S 28	21 8	16 22	4 22	14 33	3 1	24 20	2 15	25 44	2 45	2 17	1 20	8 54	2 14	23 54	0 17	5 19	1 47	5 6	15 4	0 34	0n 1	16 30		n.a.
S 29	21 19	17 52	4 48	14 25	3 2	24 7	2 12	25 44	2 47	2 14	1 21	8 56	2 14	23 54	0 17	5 19	1 47	5 6	15 4	0 29	0 2	16 31		n.a.
M30	21 s30	18 s36	5n 1	14 s22	3n 2	23 s54	2 s 9	25n44	2n49	2n10	1n21	8 s58	2n14	23 s54	0 s17	5 s19	1 s47	5 s 6	15 s 4	0 s24	0n 4	16 s32		n.a.

Julian Day Number = 1682280.5, Delta T = 03h14m50s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'42, Lahiri = - 5°25'42 Julian Calendar 1 Nov. 108 BCE == Greg. Calendar 29 Oct. 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 108 BCE
geocentric

DECEMBER 108 BCE (-107) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 27 6	6♐46'12	6♉56	17°D37	23♉46	15°R21	27♍48	28♎36	25♐17	20°R49	22°R34	0°R47	29♍48	3♐24	n.a.	T 1
W 2	4 31 2	7°47'29	18°58	17♏44	24°50	14♊58	27°56	28°42	25°20	20♓49	22♈33	0♎36	29°45	3°30	n.a.	W 2
T 3	4 34 59	8°48'45	1♒ 8	17°59	25°54	14°34	28° 4	28°48	25°24	20°49	22°32	0°27	29°41	3°37	n.a.	T 3
F 4	4 38 55	9°50'01	13°28	18°22	26°57	14°10	28°12	28°54	25°27	20°48	22°32	0°21	29°38	3°44	n.a.	F 4
S 5	4 42 52	10°51'17	26° 2	18°52	28° 0	13°46	28°19	29° 0	25°31	20°D48	22°31	0°18	29°35	3°50	n.a.	S 5
S 6	4 46 48	11°52'32	8♓53	19°28	29° 3	13°22	28°27	29° 6	25°34	20°49	22°30	0°D17	29°32	3°57	n.a.	S 6
M 7	4 50 45	12°53'47	22° 6	20° 9	0♒ 5	12°58	28°34	29°12	25°38	20°49	22°30	0°17	29°29	4° 4	n.a.	M 7
T 8	4 54 41	13°55'01	5♈44	20°56	1° 7	12°34	28°41	29°17	25°41	20°49	22°29	0°R17	29°26	4°11	n.a.	T 8
W 9	4 58 38	14°56'15	19°49	21°47	2° 8	12°10	28°48	29°23	25°45	20°49	22°28	0°16	29°22	4°17	n.a.	W 9
T 10	5 2 35	15°57'28	4♉22	22°42	3°10	11°46	28°55	29°29	25°48	20°49	22°28	0°12	29°19	4°24	n.a.	T 10
F 11	5 6 31	16°58'40	19°19	23°41	4°10	11°23	29° 2	29°34	25°52	20°49	22°27	0° 6	29°16	4°31	n.a.	F 11
S 12	5 10 28	17°59'52	4♊32	24°43	5°10	11° 0	29° 9	29°40	25°55	20°49	22°26	29♍57	29°13	4°37	n.a.	S 12
S 13	5 14 24	19° 1'04	19°53	25°47	6°10	10°37	29°15	29°45	25°59	20°50	22°26	29°46	29°10	4°44	n.a.	S 13
M14	5 18 21	20° 2'15	5♋ 8	26°54	7°10	10°14	29°22	29°50	26° 2	20°50	22°25	29°34	29° 7	4°51	n.a.	M14
T 15	5 22 17	21° 3'25	20° 8	28° 4	8° 8	9°52	29°28	29°56	26° 6	20°50	22°25	29°23	29° 3	4°57	n.a.	T 15
W16	5 26 14	22° 4'36	4♌43	29°15	9° 7	9°30	29°34	0♏ 1	26° 9	20°51	22°24	29°14	29° 0	5° 4	n.a.	W16
T 17	5 30 11	23° 5'45	18°48	0♐29	10° 4	9° 9	29°40	0° 6	26°13	20°51	22°24	29° 8	28°57	5°11	n.a.	T 17
F 18	5 34 7	24° 6'55	2♍23	1°44	11° 2	8°48	29°45	0°11	26°17	20°52	22°23	29° 4	28°54	5°18	n.a.	F 18
S 19	5 38 4	25° 8'04	15°29	3° 0	11°58	8°28	29°51	0°16	26°20	20°52	22°23	29° 3	28°51	5°24	n.a.	S 19
S 20	5 42 0	26° 9'12	28° 9	4°19	12°54	8° 8	29°56	0°21	26°24	20°53	22°22	29° 3	28°47	5°31	n.a.	S 20
M21	5 45 57	27°10'20	10♎30	5°38	13°50	7°49	0♎ 2	0°26	26°27	20°53	22°22	29° 3	28°44	5°38	n.a.	M21
T 22	5 49 53	28°11'28	22°35	6°58	14°45	7°30	0° 7	0°31	26°31	20°54	22°22	29° 1	28°41	5°44	n.a.	T 22
W23	5 53 50	29°12'35	4♏31	8°20	15°39	7°12	0°12	0°36	26°34	20°54	22°21	28°57	28°38	5°51	n.a.	W23
T 24	5 57 46	0♑13'41	16°22	9°43	16°33	6°55	0°16	0°40	26°38	20°55	22°21	28°51	28°35	5°58	n.a.	T 24
F 25	6 1 43	1°14'47	28°11	11° 6	17°25	6°38	0°21	0°45	26°41	20°56	22°21	28°41	28°32	6° 5	n.a.	F 25
S 26	6 5 40	2°15'52	10♐ 1	12°31	18°18	6°23	0°25	0°50	26°45	20°56	22°20	28°28	28°28	6°11	n.a.	S 26
S 27	6 9 36	3°16'56	21°56	13°57	19° 9	6° 8	0°30	0°54	26°48	20°57	22°20	28°14	28°25	6°18	n.a.	S 27
M28	6 13 33	4°17'59	3♑55	15°23	20° 0	5°53	0°34	0°58	26°52	20°58	22°20	27°59	28°22	6°25	n.a.	M28
T 29	6 17 29	5°19'01	16° 1	16°50	20°49	5°40	0°38	1° 3	26°56	20°59	22°19	27°44	28°19	6°31	n.a.	T 29
W30	6 21 26	6°20'02	28°14	18°18	21°38	5°27	0°41	1° 7	26°59	21° 0	22°19	27°31	28°16	6°38	n.a.	W30
T 31	6 25 22	7♑21'02	10♒34	19♐47	22♒26	5♊15	0♎45	1♏11	27♐ 3	21♓ 0	22♈19	27♍21	28♍13	6♐45	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	21s41	18s31	5n 0	14s24	3n 0	23s40	2s 6	25n43	2n51	2n 7	1n21	9s 0	2n14	23s54	0s17	5s19	1s47	5s 6	15s 4	0s19	0n 5	16s32			n.a.
W 2	21 51	17 36	4 47	14 29	2 57	23 25	2 3	25 43	2 53	2 4	1 21	9 2	2 14	23 54	0 17	5 19	1 47	5 6	15 3	0 14	0 6	16 33			n.a.
T 3	22 1	15 53	4 21	14 37	2 53	23 10	2 0	25 42	2 55	2 1	1 22	9 4	2 15	23 55	0 17	5 19	1 47	5 6	15 3	0 11	0 7	16 34			n.a.
F 4	22 10	13 26	3 42	14 48	2 48	22 54	1 57	25 41	2 57	1 58	1 22	9 6	2 15	23 55	0 17	5 19	1 47	5 6	15 3	0 9	0 9	16 35			n.a.
S 5	22 19	10 18	2 51	15 2	2 42	22 38	1 53	25 40	2 59	1 56	1 22	9 8	2 15	23 55	0 17	5 19	1 47	5 6	15 3	0 7	0 10	16 36			n.a.
S 6	22 28	6 37	1 51	15 18	2 35	22 21	1 49	25 39	3 1	1 53	1 22	9 10	2 15	23 55	0 17	5 19	1 46	5 6	15 2	0 7	0 11	16 37			n.a.
M 7	22 36	2 30	0 43	15 36	2 28	22 4	1 45	25 37	3 2	1 50	1 22	9 12	2 15	23 55	0 17	5 19	1 46	5 6	15 2	0 7	0 13	16 38			n.a.
T 8	22 43	1n52	0s29	15 55	2 21	21 47	1 41	25 36	3 4	1 47	1 23	9 14	2 15	23 55	0 17	5 18	1 46	5 6	15 2	0 7	0 14	16 38			n.a.
W 9	22 51	6 16	1 42	16 16	2 13	21 29	1 37	25 34	3 5	1 45	1 23	9 16	2 15	23 55	0 17	5 18	1 46	5 6	15 2	0 6	0 15	16 39			n.a.
T 10	22 57	10 27	2 50	16 38	2 5	21 10	1 33	25 32	3 7	1 42	1 23	9 18	2 15	23 55	0 17	5 18	1 46	5 6	15 1	0 5	0 16	16 40			n.a.
F 11	23 4	14 5	3 49	17 1	1 57	20 51	1 28	25 30	3 8	1 40	1 23	9 20	2 16	23 56	0 17	5 18	1 46	5 6	15 1	0 2	0 18	16 41			n.a.
S 12	23 9	16 50	4 32	17 24	1 48	20 32	1 23	25 28	3 9	1 37	1 24	9 22	2 16	23 56	0 17	5 18	1 46	5 6	15 1	0n 1	0 19	16 42			n.a.
S 13	23 15	18 24	4 56	17 48	1 40	20 12	1 18	25 26	3 11	1 35	1 24	9 23	2 16	23 56	0 17	5 18	1 46	5 6	15 0	0 6	0 20	16 43			n.a.
M14	23 20	18 37	4 59	18 12	1 31	19 52	1 13	25 23	3 12	1 32	1 24	9 25	2 16	23 56	0 17	5 18	1 46	5 6	15 0	0 10	0 22	16 43			n.a.
T 15	23 24	17 32	4 41	18 36	1 23	19 32	1 8	25 21	3 13	1 30	1 24	9 27	2 16	23 56	0 17	5 17	1 46	5 6	15 0	0 15	0 23	16 44			n.a.
W16	23 28	15 19	4 6	19 0	1 14	19 11	1 3	25 19	3 14	1 28	1 25	9 29	2 16	23 56	0 17	5 17	1 46	5 6	15 0	0 18	0 24	16 45			n.a.
T 17	23 31	12 15	3 16	19 25	1 6	18 50	0 57	25 16	3 14	1 26	1 25	9 30	2 16	23 56	0 17	5 17	1 46	5 6	14 59	0 21	0 25	16 46			n.a.
F 18	23 34	8 38	2 16	19 48	0 57	18 29	0 51	25 13	3 15	1 24	1 25	9 32	2 17	23 56	0 17	5 17	1 46	5 6	14 59	0 22	0 27	16 47			n.a.
S 19	23 37	4 42	1 11	20 12	0 49	18 7	0 45	25 11	3 16	1 22	1 25	9 34	2 17	23 56	0 17	5 17	1 46	5 5	14 59	0 23	0 28	16 48			n.a.
S 20	23 39	0 40	0 5	20 35	0 40	17 45	0 39	25 8	3 16	1 20	1 26	9 35	2 17	23 57	0 17	5 16	1 46	5 5	14 58	0 23	0 29	16 48			n.a.
M21	23 40	3s17	1n 0	20 58	0 32	17 23	0 33	25 6	3 17	1 18	1 26	9 37	2 17	23 57	0 17	5 16	1 46	5 5	14 58	0 23	0 30	16 49			n.a.
T 22	23 42	7 1	2 1	21 20	0 24	17 0	0 26	25 3	3 17	1 16	1 26	9 38	2 17	23 57	0 17	5 16	1 46	5 5	14 58	0 24	0 32	16 50			n.a.
W23	23 42	10 25	2 56	21 41	0 16	16 38	0 19	25 0	3 18	1 14	1 26	9 40	2 17	23 57	0 17	5 15	1 46	5 5	14 57	0 25	0 33	16 51			n.a.
T 24	23 42	13 22	3 42	22 2	0 8	16 15	0 12	24 57	3 18	1 13	1 27	9 41	2 17	23 57	0 17	5 15	1 45	5 5	14 57	0 28	0 34	16 52			n.a.
F 25	23 42	15 46	4 19	22 22	0s 0	15 52	0 5	24 55	3 18	1 11	1 27	9 43	2 18	23 57	0 17	5 15	1 45	5 5	14 57	0 32	0 36	16 53			n.a.
S 26	23 41	17 31	4 44	22 41	0 8	15 29	0n 2	24 52	3 18	1 10	1 27	9 44	2 18	23 57	0 17	5 14	1 45	5 4	14 56	0 37	0 37	16 53			n.a.
S 27	23 40	18 30	4 58	22 59	0 15	15 6	0 9	24 49	3 18	1 8	1 27	9 46	2 18	23 57	0 17	5 14	1 45	5 4	14 56	0 43	0 38	16 54			n.a.
M28	23 38	18 41	4 58	23 16	0 23	14 42	0 17	24 47	3 18	1 7	1 28	9 47	2 18	23 57	0 17	5 14	1 45	5 4	14 56	0 49	0 39	16 55			n.a.
T 29	23 36	18 1	4 45	23 32	0 30	14 19	0 25	24 44	3 18	1 5	1 28	9 48	2 18	23 57	0 17	5 13	1 45	5 4	14 55	0 55	0 41	16 56			n.a.
W30	23 33	16 32	4 18	23 47	0 37	13 56	0 33	24 42	3 18	1 4	1 28	9 50	2 19	23 58	0 17	5 13	1 45	5 4	14 55	1 0	0 42	16 57			n.a.
T 31	23s30	14s16	3n39	24s 2	0s43	13s32	0n41	24n40	3n18	1n 3	1n29	9s51	2n19	23s58	0s17	5s13	1s45	5s 3	14s55	1n 4	0n43	16s57			n.a.

Julian Day Number = 1682310.5, Delta T = 03h14m49s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'38, Lahiri = - 5°25'38 Julian Calendar 1 Dec. 108 BCE == Greg. Calendar 28 Nov. 108 BCE

The year -107 astronomical counting style corresponds to year 108 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

JANUARY 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 29 19	8♑22'00	23♒ 4	21♐16	23♒14	5°R 4	0♎48	1♏15	27♐ 6	21♓ 1	22°R19	27°R14	28♍ 9	6♐52	n.a.	F 1
S 2	6 33 15	9°22'57	5♓46	22°47	24° 0	4♊53	0°51	1°19	27°10	21° 2	22♈19	27♍ 9	28° 6	6°58	n.a.	S 2
S 3	6 37 12	10°23'53	18°41	24°18	24°45	4°44	0°54	1°23	27°13	21° 3	22°19	27° 8	28° 3	7° 5	n.a.	S 3
M 4	6 41 9	11°24'47	1♈52	25°50	25°29	4°35	0°57	1°27	27°17	21° 4	22°18	27°D 7	28° 0	7°12	n.a.	M 4
T 5	6 45 5	12°25'39	15°24	27°22	26°12	4°27	1° 0	1°31	27°20	21° 5	22°18	27°R 8	27°57	7°18	n.a.	T 5
W 6	6 49 2	13°26'30	29°16	28°55	26°54	4°20	1° 2	1°34	27°24	21° 6	22°18	27° 7	27°53	7°25	n.a.	W 6
T 7	6 52 58	14°27'19	13♉32	0♑29	27°35	4°14	1° 5	1°38	27°27	21° 8	22°18	27° 4	27°50	7°32	n.a.	T 7
F 8	6 56 55	15°28'07	28° 8	2° 4	28°14	4° 8	1° 7	1°41	27°30	21° 9	22°18	26°58	27°47	7°39	n.a.	F 8
S 9	7 0 51	16°28'53	13♊ 2	3°40	28°52	4° 3	1° 9	1°45	27°34	21°10	22°D18	26°50	27°44	7°45	n.a.	S 9
S 10	7 4 48	17°29'38	28° 5	5°16	29°29	3°59	1°10	1°48	27°37	21°11	22°18	26°40	27°41	7°52	n.a.	S 10
M11	7 8 44	18°30'21	13♋ 8	6°53	0♓ 5	3°56	1°12	1°51	27°41	21°12	22°18	26°29	27°38	7°59	n.a.	M11
T 12	7 12 41	19°31'02	28° 1	8°31	0°39	3°54	1°13	1°55	27°44	21°14	22°18	26°19	27°34	8° 5	n.a.	T 12
W13	7 16 38	20°31'42	12♌35	10°10	1°12	3°52	1°14	1°58	27°47	21°15	22°18	26°11	27°31	8°12	n.a.	W13
T 14	7 20 34	21°32'20	26°44	11°49	1°43	3°51	1°15	2° 1	27°51	21°16	22°19	26° 5	27°28	8°19	n.a.	T 14
F 15	7 24 31	22°32'57	10♍25	13°30	2°12	3°D51	1°16	2° 3	27°54	21°18	22°19	26° 1	27°25	8°26	n.a.	F 15
S 16	7 28 27	23°33'33	23°38	15°11	2°40	3°52	1°17	2° 6	27°57	21°19	22°19	26°D 0	27°22	8°32	n.a.	S 16
S 17	7 32 24	24°34'07	6♎25	16°53	3° 6	3°53	1°17	2° 9	28° 1	21°20	22°19	26° 0	27°19	8°39	n.a.	S 17
M18	7 36 20	25°34'40	18°50	18°36	3°31	3°56	1°18	2°11	28° 4	21°22	22°19	26° 1	27°15	8°46	n.a.	M18
T 19	7 40 17	26°35'12	0♏59	20°20	3°53	3°58	1°R18	2°14	28° 7	21°23	22°19	26°R 1	27°12	8°53	n.a.	T 19
W20	7 44 13	27°35'42	12°57	22° 5	4°14	4° 2	1°17	2°16	28°10	21°25	22°20	26° 0	27° 9	8°59	n.a.	W20
T 21	7 48 10	28°36'10	24°48	23°50	4°32	4° 6	1°17	2°19	28°14	21°26	22°20	25°56	27° 6	9° 6	n.a.	T 21
F 22	7 52 7	29°36'38	6♐38	25°37	4°49	4°11	1°17	2°21	28°17	21°28	22°20	25°50	27° 3	9°13	n.a.	F 22
S 23	7 56 3	0♒37'03	18°31	27°25	5° 3	4°17	1°16	2°23	28°20	21°29	22°20	25°42	26°59	9°19	n.a.	S 23
S 24	8 0 0	1°37'27	0♑29	29°13	5°16	4°23	1°15	2°25	28°23	21°31	22°21	25°32	26°56	9°26	n.a.	S 24
M25	8 3 56	2°37'50	12°35	1♒ 3	5°26	4°30	1°14	2°27	28°26	21°32	22°21	25°21	26°53	9°33	n.a.	M25
T 26	8 7 53	3°38'10	24°51	2°53	5°34	4°37	1°13	2°29	28°29	21°34	22°22	25°11	26°50	9°40	n.a.	T 26
W27	8 11 49	4°38'29	7♒17	4°44	5°40	4°45	1°11	2°30	28°32	21°36	22°22	25° 2	26°47	9°46	n.a.	W27
T 28	8 15 46	5°38'46	19°54	6°37	5°43	4°54	1° 9	2°32	28°35	21°37	22°22	24°55	26°44	9°53	n.a.	T 28
F 29	8 19 42	6°39'01	2♓42	8°30	5°R44	5° 3	1° 8	2°34	28°38	21°39	22°23	24°50	26°40	10° 0	n.a.	F 29
S 30	8 23 39	7°39'14	15°42	10°23	5°42	5°13	1° 5	2°35	28°41	21°41	22°23	24°48	26°37	10° 6	n.a.	S 30
S 31	8 27 36	8♒39'25	28♓53	12♒18	5♓38	5♊24	1♎ 3	2♏36	28♐44	21♓43	22♈24	24°D47	26♍34	10♐13	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s26	11s19	2n50	24s15	0s50	13s 9	0n50	24n37	3n18	1n 2	1n29	9s52	2n19	23s58	0s17	5s12	1s45	5s 3	14s54	1n 7	0n44	16s58		n.a.
S 2	23 22	7 47	1 51	24 26	0 56	12 45	0 58	24 35	3 18	1 1	1 29	9 54	2 19	23 58	0 17	5 12	1 45	5 3	14 54	1 9	0 46	16 59		n.a.
S 3	23 18	3 51	0 45	24 37	1 2	12 22	1 7	24 33	3 17	1 0	1 29	9 55	2 19	23 58	0 17	5 11	1 45	5 3	14 54	1 9	0 47	17 0		n.a.
M 4	23 13	0n22	0s25	24 46	1 8	11 58	1 16	24 31	3 17	0 59	1 30	9 56	2 19	23 58	0 17	5 11	1 45	5 2	14 53	1 9	0 48	17 0		n.a.
T 5	23 7	4 40	1 35	24 54	1 14	11 35	1 26	24 29	3 16	0 58	1 30	9 57	2 20	23 58	0 17	5 10	1 45	5 2	14 53	1 9	0 50	17 1		n.a.
W 6	23 1	8 49	2 42	25 1	1 19	11 12	1 35	24 27	3 16	0 57	1 30	9 58	2 20	23 58	0 17	5 10	1 45	5 2	14 53	1 10	0 51	17 2		n.a.
T 7	22 55	12 35	3 40	25 6	1 24	10 49	1 45	24 25	3 15	0 57	1 30	9 59	2 20	23 58	0 17	5 9	1 45	5 1	14 52	1 11	0 52	17 3		n.a.
F 8	22 48	15 40	4 25	25 10	1 29	10 26	1 55	24 24	3 15	0 56	1 31	10 0	2 20	23 58	0 17	5 9	1 45	5 1	14 52	1 13	0 53	17 4		n.a.
S 9	22 41	17 46	4 53	25 13	1 34	10 3	2 5	24 22	3 14	0 56	1 31	10 1	2 20	23 58	0 17	5 8	1 45	5 1	14 52	1 16	0 55	17 4		n.a.
S 10	22 33	18 40	5 2	25 14	1 38	9 40	2 15	24 21	3 14	0 55	1 31	10 2	2 21	23 58	0 17	5 8	1 45	5 1	14 51	1 20	0 56	17 5		n.a.
M11	22 25	18 15	4 50	25 13	1 42	9 18	2 25	24 20	3 13	0 55	1 32	10 3	2 21	23 59	0 17	5 7	1 45	5 0	14 51	1 25	0 57	17 6		n.a.
T 12	22 16	16 35	4 18	25 11	1 45	8 56	2 36	24 19	3 12	0 55	1 32	10 4	2 21	23 59	0 17	5 7	1 44	5 0	14 51	1 29	0 59	17 7		n.a.
W13	22 7	13 52	3 29	25 7	1 49	8 35	2 47	24 18	3 12	0 54	1 32	10 5	2 21	23 59	0 17	5 6	1 44	5 0	14 50	1 32	1 0	17 7		n.a.
T 14	21 58	10 24	2 29	25 2	1 52	8 13	2 58	24 17	3 11	0 54	1 32	10 6	2 21	23 59	0 17	5 6	1 44	4 59	14 50	1 35	1 1	17 8		n.a.
F 15	21 48	6 29	1 22	24 55	1 54	7 52	3 9	24 16	3 10	0 54	1 33	10 7	2 22	23 59	0 17	5 5	1 44	4 59	14 50	1 36	1 2	17 9		n.a.
S 16	21 37	2 22	0 13	24 46	1 57	7 32	3 20	24 15	3 9	0 54	1 33	10 7	2 22	23 59	0 18	5 4	1 44	4 58	14 49	1 36	1 4	17 10		n.a.
S 17	21 27	1s44	0n55	24 35	1 59	7 12	3 32	24 15	3 9	0 54	1 33	10 8	2 22	23 59	0 18	5 4	1 44	4 58	14 49	1 36	1 5	17 10		n.a.
M18	21 16	5 38	1 59	24 23	2 0	6 52	3 43	24 14	3 8	0 54	1 33	10 9	2 22	23 59	0 18	5 3	1 44	4 58	14 49	1 36	1 6	17 11		n.a.
T 19	21 4	9 12	2 56	24 9	2 1	6 33	3 55	24 14	3 7	0 55	1 34	10 9	2 22	23 59	0 18	5 3	1 44	4 57	14 48	1 36	1 7	17 12		n.a.
W20	20 52	12 21	3 44	23 53	2 2	6 14	4 7	24 14	3 6	0 55	1 34	10 10	2 23	23 59	0 18	5 2	1 44	4 57	14 48	1 37	1 9	17 13		n.a.
T 21	20 40	14 57	4 22	23 35	2 2	5 56	4 19	24 14	3 5	0 55	1 34	10 11	2 23	23 59	0 18	5 1	1 44	4 57	14 48	1 38	1 10	17 13		n.a.
F 22	20 28	16 55	4 48	23 15	2 2	5 39	4 31	24 14	3 4	0 56	1 35	10 11	2 23	23 59	0 18	5 1	1 44	4 56	14 47	1 40	1 11	17 14		n.a.
S 23	20 15	18 11	5 3	22 54	2 2	5 22	4 43	24 14	3 3	0 56	1 35	10 12	2 23	23 59	0 18	5 0	1 44	4 56	14 47	1 44	1 13	17 15		n.a.
S 24	20 1	18 38	5 4	22 30	2 1	5 7	4 55	24 15	3 3	0 57	1 35	10 12	2 23	23 59	0 18	4 59	1 44	4 55	14 47	1 48	1 14	17 16		n.a.
M25	19 47	18 16	4 52	22 5	1 59	4 51	5 8	24 15	3 2	0 58	1 35	10 13	2 24	23 59	0 18	4 59	1 44	4 55	14 46	1 52	1 15	17 16		n.a.
T 26	19 33	17 2	4 26	21 38	1 57	4 37	5 20	24 15	3 1	0 58	1 36	10 13	2 24	23 59	0 18	4 58	1 44	4 54	14 46	1 56	1 16	17 17		n.a.
W27	19 19	15 0	3 47	21 8	1 54	4 24	5 32	24 16	3 0	0 59	1 36	10 14	2 24	24 0	0 18	4 57	1 44	4 54	14 46	2 0	1 18	17 18		n.a.
T 28	19 4	12 13	2 56	20 37	1 51	4 11	5 45	24 17	2 59	1 0	1 36	10 14	2 24	24 0	0 18	4 57	1 44	4 54	14 45	2 3	1 19	17 18		n.a.
F 29	18 49	8 49	1 56	20 4	1 47	3 59	5 57	24 18	2 58	1 1	1 36	10 14	2 24	24 0	0 18	4 56	1 44	4 53	14 45	2 5	1 20	17 19		n.a.
S 30	18 34	4 57	0 49	19 29	1 43	3 49	6 9	24 19	2 57	1 2	1 37	10 14	2 25	24 0	0 18	4 55	1 44	4 53	14 45	2 5	1 21	17 20		n.a.
S 31	18s18	0s47	0s22	18s52	1s38	3s39	6n21	24n20	2n56	1n 3	1n37	10s15	2n25	24s 0	0s18	4s54	1s44	4s52	14s45	2n 6	1n23	17s21		n.a.

Julian Day Number = 1682341.5, Delta T = 03h14m48s
Ecliptic obliquity = 23°42'19, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'34, Lahiri = - 5°25'34 Julian Calendar 1 Jan. 107 BCE == Greg. Calendar 29 Dec. 108 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

FEBRUARY 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 31 32	9♒39'34	12♈17	14♒13	5°R31	5♊35	1°R 1	2♏38	28♐47	21♓44	22♈24	24♍48	26♍31	10♐20	n.a.	M 1
T 2	8 35 29	10°39'40	25°54	16° 8	5♓22	5°47	0♎58	2°39	28°50	21°46	22°25	24°50	26°28	10°27	n.a.	T 2
W 3	8 39 25	11°39'44	9♉45	18° 4	5°10	5°59	0°55	2°40	28°53	21°48	22°25	24°R50	26°24	10°33	n.a.	W 3
T 4	8 43 22	12°39'46	23°51	20° 0	4°56	6°11	0°52	2°41	28°56	21°50	22°26	24°50	26°21	10°40	n.a.	T 4
F 5	8 47 18	13°39'46	8♊10	21°56	4°39	6°25	0°49	2°42	28°58	21°52	22°26	24°47	26°18	10°47	n.a.	F 5
S 6	8 51 15	14°39'43	22°40	23°52	4°20	6°38	0°46	2°42	29° 1	21°54	22°27	24°43	26°15	10°53	n.a.	S 6
S 7	8 55 11	15°39'38	7♋16	25°47	3°58	6°53	0°43	2°43	29° 4	21°55	22°28	24°38	26°12	11° 0	n.a.	S 7
M 8	8 59 8	16°39'31	21°52	27°42	3°34	7° 7	0°39	2°43	29° 7	21°57	22°28	24°32	26° 9	11° 7	n.a.	M 8
T 9	9 3 5	17°39'22	6♌22	29°35	3° 8	7°22	0°35	2°44	29° 9	21°59	22°29	24°26	26° 5	11°14	n.a.	T 9
W10	9 7 1	18°39'10	20°38	1♓27	2°40	7°38	0°31	2°44	29°12	22° 1	22°29	24°21	26° 2	11°20	n.a.	W10
T 11	9 10 58	19°38'57	4♍35	3°17	2°10	7°54	0°27	2°44	29°14	22° 3	22°30	24°18	25°59	11°27	n.a.	T 11
F 12	9 14 54	20°38'41	18°11	5° 4	1°38	8°11	0°23	2°45	29°17	22° 5	22°31	24°D17	25°56	11°34	n.a.	F 12
S 13	9 18 51	21°38'24	1♎23	6°48	1° 5	8°28	0°18	2°R45	29°19	22° 7	22°32	24°17	25°53	11°40	n.a.	S 13
S 14	9 22 47	22°38'04	14°12	8°30	0°30	8°45	0°14	2°44	29°22	22° 9	22°32	24°18	25°50	11°47	n.a.	S 14
M15	9 26 44	23°37'43	26°42	10° 7	29♒54	9° 3	0° 9	2°44	29°24	22°11	22°33	24°20	25°46	11°54	n.a.	M15
T 16	9 30 40	24°37'20	8♏55	11°40	29°17	9°21	0° 4	2°44	29°27	22°13	22°34	24°21	25°43	12° 1	n.a.	T 16
W17	9 34 37	25°36'55	20°56	13° 8	28°40	9°39	29♍59	2°44	29°29	22°15	22°35	24°R22	25°40	12° 7	n.a.	W17
T 18	9 38 33	26°36'28	2♐50	14°32	28° 2	9°58	29°53	2°43	29°31	22°17	22°35	24°22	25°37	12°14	n.a.	T 18
F 19	9 42 30	27°35'59	14°42	15°49	27°24	10°18	29°48	2°43	29°34	22°19	22°36	24°21	25°34	12°21	n.a.	F 19
S 20	9 46 27	28°35'28	26°37	17° 0	26°46	10°37	29°43	2°42	29°36	22°22	22°37	24°18	25°30	12°28	n.a.	S 20
S 21	9 50 23	29°34'56	8♑38	18° 5	26° 9	10°57	29°37	2°41	29°38	22°24	22°38	24°15	25°27	12°34	n.a.	S 21
M22	9 54 20	0♓34'22	20°49	19° 3	25°32	11°18	29°31	2°40	29°40	22°26	22°39	24°11	25°24	12°41	n.a.	M22
T 23	9 58 16	1°33'45	3♒13	19°54	24°56	11°38	29°25	2°39	29°42	22°28	22°40	24° 7	25°21	12°48	n.a.	T 23
W24	10 2 13	2°33'07	15°51	20°38	24°20	11°59	29°19	2°38	29°44	22°30	22°41	24° 4	25°18	12°54	n.a.	W24
T 25	10 6 9	3°32'26	28°45	21°15	23°47	12°21	29°13	2°37	29°46	22°32	22°42	24° 1	25°15	13° 1	n.a.	T 25
F 26	10 10 6	4°31'44	11♓54	21°44	23°14	12°42	29° 7	2°36	29°48	22°34	22°43	24° 0	25°11	13° 8	n.a.	F 26
S 27	10 14 2	5°30'59	25°17	22° 5	22°44	13° 5	29° 0	2°35	29°50	22°37	22°44	23°D59	25° 8	13°15	n.a.	S 27
S 28	10 17 59	6♓30'12	8♈53	22♓19	22♒15	13♊27	28♍54	2♏33	29♐52	22♓39	22♈45	24♍ 0	25♍ 5	13♐21	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s 2	3n29	1s33	18s13	1s33	3s30	6n33	24n21	2n55	1n 4	1n37	10s15	2n25	24s 0	0s18	4s54	1s44	4s52	14s44	2n 5	1n24	17s21		n.a.
T 2	17 45	7 38	2 40	17 33	1 26	3 23	6 44	24 22	2 54	1 6	1 37	10 15	2 25	24 0	0 18	4 53	1 44	4 51	14 44	2 5	1 25	17 22		n.a.
W 3	17 29	11 26	3 39	16 51	1 20	3 17	6 56	24 23	2 53	1 7	1 38	10 15	2 26	24 0	0 18	4 52	1 44	4 51	14 44	2 4	1 27	17 23		n.a.
T 4	17 12	14 39	4 26	16 7	1 12	3 12	7 7	24 24	2 52	1 9	1 38	10 15	2 26	24 0	0 18	4 51	1 44	4 50	14 43	2 5	1 28	17 23		n.a.
F 5	16 55	17 2	4 57	15 22	1 4	3 8	7 17	24 26	2 51	1 10	1 38	10 15	2 26	24 0	0 18	4 51	1 44	4 50	14 43	2 6	1 29	17 24		n.a.
S 6	16 37	18 21	5 10	14 35	0 55	3 5	7 28	24 27	2 50	1 12	1 38	10 16	2 26	24 0	0 18	4 50	1 43	4 49	14 43	2 7	1 30	17 25		n.a.
S 7	16 19	18 28	5 2	13 47	0 46	3 4	7 37	24 29	2 49	1 13	1 39	10 16	2 26	24 0	0 18	4 49	1 43	4 49	14 42	2 9	1 32	17 25		n.a.
M 8	16 1	17 22	4 36	12 58	0 36	3 4	7 47	24 30	2 48	1 15	1 39	10 16	2 27	24 0	0 18	4 48	1 43	4 48	14 42	2 12	1 33	17 26		n.a.
T 9	15 43	15 10	3 51	12 9	0 26	3 5	7 55	24 32	2 47	1 17	1 39	10 15	2 27	24 0	0 18	4 48	1 43	4 48	14 42	2 14	1 34	17 27		n.a.
W10	15 24	12 3	2 53	11 18	0 14	3 8	8 3	24 34	2 46	1 18	1 39	10 15	2 27	24 0	0 18	4 47	1 43	4 47	14 41	2 16	1 36	17 28		n.a.
T 11	15 5	8 18	1 45	10 28	0 3	3 11	8 10	24 35	2 45	1 20	1 39	10 15	2 27	24 0	0 18	4 46	1 43	4 47	14 41	2 17	1 37	17 28		n.a.
F 12	14 46	4 13	0 33	9 37	0n 9	3 16	8 17	24 37	2 45	1 22	1 40	10 15	2 27	24 0	0 18	4 45	1 43	4 46	14 41	2 18	1 38	17 29		n.a.
S 13	14 27	0 2	0n39	8 46	0 22	3 23	8 23	24 39	2 44	1 24	1 40	10 15	2 28	24 0	0 18	4 44	1 43	4 46	14 41	2 18	1 39	17 30		n.a.
S 14	14 7	4s 1	1 47	7 56	0 35	3 30	8 28	24 41	2 43	1 26	1 40	10 15	2 28	24 0	0 18	4 43	1 43	4 45	14 40	2 17	1 41	17 30		n.a.
M15	13 48	7 48	2 48	7 7	0 48	3 39	8 31	24 43	2 42	1 28	1 40	10 14	2 28	24 0	0 18	4 43	1 43	4 44	14 40	2 17	1 42	17 31		n.a.
T 16	13 28	11 9	3 40	6 19	1 1	3 49	8 35	24 45	2 41	1 31	1 41	10 14	2 28	24 0	0 18	4 42	1 43	4 44	14 40	2 16	1 43	17 32		n.a.
W17	13 7	13 59	4 22	5 33	1 15	4 0	8 37	24 47	2 40	1 33	1 41	10 14	2 29	24 0	0 18	4 41	1 43	4 43	14 39	2 16	1 44	17 32		n.a.
T 18	12 47	16 11	4 52	4 48	1 28	4 11	8 38	24 49	2 39	1 35	1 41	10 13	2 29	24 0	0 18	4 40	1 43	4 43	14 39	2 16	1 46	17 33		n.a.
F 19	12 26	17 42	5 9	4 6	1 41	4 24	8 38	24 51	2 38	1 37	1 41	10 13	2 29	24 0	0 18	4 39	1 43	4 42	14 39	2 16	1 47	17 34		n.a.
S 20	12 6	18 26	5 13	3 26	1 54	4 37	8 37	24 53	2 37	1 40	1 41	10 13	2 29	24 0	0 18	4 38	1 43	4 42	14 39	2 17	1 48	17 34		n.a.
S 21	11 45	18 22	5 4	2 49	2 7	4 51	8 36	24 55	2 36	1 42	1 41	10 12	2 29	24 0	0 18	4 38	1 43	4 41	14 38	2 19	1 50	17 35		n.a.
M22	11 24	17 27	4 41	2 15	2 19	5 6	8 33	24 57	2 35	1 45	1 42	10 12	2 30	24 0	0 18	4 37	1 43	4 41	14 38	2 20	1 51	17 35		n.a.
T 23	11 2	15 42	4 4	1 44	2 31	5 21	8 29	24 59	2 34	1 47	1 42	10 11	2 30	24 1	0 18	4 36	1 43	4 40	14 38	2 22	1 52	17 36		n.a.
W24	10 41	13 10	3 15	1 16	2 42	5 37	8 25	25 1	2 33	1 50	1 42	10 11	2 30	24 1	0 18	4 35	1 43	4 39	14 38	2 23	1 53	17 37		n.a.
T 25	10 19	9 56	2 15	0 52	2 52	5 53	8 19	25 3	2 32	1 52	1 42	10 10	2 30	24 1	0 18	4 34	1 43	4 39	14 37	2 24	1 55	17 37		n.a.
F 26	9 57	6 9	1 6	0 32	3 2	6 9	8 13	25 5	2 31	1 55	1 42	10 9	2 30	24 1	0 18	4 33	1 43	4 38	14 37	2 25	1 56	17 38		n.a.
S 27	9 35	2 0	0s 7	0 16	3 10	6 25	8 6	25 7	2 31	1 58	1 42	10 9	2 31	24 1	0 18	4 32	1 43	4 38	14 37	2 25	1 57	17 39		n.a.
S 28	9s13	2n19	1s21	0s 4	3n17	6s42	7n59	25n 8	2n30	2n 1	1n43	10s 8	2n31	24s 1	0s18	4s31	1s43	4s37	14s37	2n25	1n58	17s39		n.a.

Julian Day Number = 1682372.5, Delta T = 03h14m47s
Ecliptic obliquity = 23°42'20, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'30, Lahiri = - 5°25'29 Julian Calendar 1 Feb. 107 BCE == Greg. Calendar 29 Jan. 107 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

MARCH 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 21 56	7♓29'22	22♈40	22°R25	21°R48	13♊49	28°R47	2°R32	29♐54	22♓41	22♈46	24♍ 1	25♍ 2	13♐28	n.a.	M 1
T 2	10 25 52	8°28'31	6♉37	22♓24	21♒23	14°12	28♍40	2♏30	29°56	22°43	22°47	24° 2	24°59	13°35	n.a.	T 2
W 3	10 29 49	9°27'37	20°40	22°16	21° 1	14°36	28°34	2°28	29°58	22°45	22°48	24° 3	24°56	13°41	n.a.	W 3
T 4	10 33 45	10°26'40	4♊50	22° 2	20°40	14°59	28°27	2°26	29°59	22°48	22°49	24°R 4	24°52	13°48	n.a.	T 4
F 5	10 37 42	11°25'41	19° 3	21°40	20°22	15°23	28°20	2°25	0♑ 1	22°50	22°50	24° 4	24°49	13°55	n.a.	F 5
S 6	10 41 38	12°24'40	3♋17	21°14	20° 7	15°47	28°13	2°23	0° 3	22°52	22°51	24° 3	24°46	14° 2	n.a.	S 6
S 7	10 45 35	13°23'36	17°29	20°42	19°54	16°11	28° 5	2°20	0° 4	22°54	22°52	24° 2	24°43	14° 8	n.a.	S 7
M 8	10 49 31	14°22'30	1♌37	20° 5	19°43	16°36	27°58	2°18	0° 6	22°57	22°53	24° 1	24°40	14°15	n.a.	M 8
T 9	10 53 28	15°21'22	15°37	19°25	19°35	17° 1	27°51	2°16	0° 7	22°59	22°54	24° 0	24°36	14°22	n.a.	T 9
W10	10 57 25	16°20'11	29°25	18°42	19°29	17°26	27°44	2°14	0° 9	23° 1	22°55	23°59	24°33	14°28	n.a.	W10
T 11	11 1 21	17°18'58	13♍ 0	17°57	19°26	17°51	27°36	2°11	0°10	23° 3	22°56	23°59	24°30	14°35	n.a.	T 11
F 12	11 5 18	18°17'43	26°18	17°11	19°D25	18°16	27°29	2° 9	0°12	23° 6	22°57	23°D58	24°27	14°42	n.a.	F 12
S 13	11 9 14	19°16'26	9♎19	16°24	19°26	18°42	27°21	2° 6	0°13	23° 8	22°58	23°59	24°24	14°49	n.a.	S 13
S 14	11 13 11	20°15'07	22° 2	15°39	19°30	19° 8	27°14	2° 4	0°14	23°10	23° 0	23°59	24°21	14°55	n.a.	S 14
M15	11 17 7	21°13'46	4♏29	14°55	19°36	19°34	27° 6	2° 1	0°15	23°12	23° 1	23°59	24°17	15° 2	n.a.	M15
T 16	11 21 4	22°12'23	16°43	14°13	19°44	20° 1	26°58	1°58	0°17	23°15	23° 2	24° 0	24°14	15° 9	n.a.	T 16
W17	11 25 0	23°10'58	28°46	13°34	19°55	20°27	26°51	1°55	0°18	23°17	23° 3	24° 0	24°11	15°16	n.a.	W17
T 18	11 28 57	24° 9'32	10♐42	12°59	20° 7	20°54	26°43	1°52	0°19	23°19	23° 4	24°R 0	24° 8	15°22	n.a.	T 18
F 19	11 32 53	25° 8'04	22°35	12°27	20°22	21°21	26°35	1°49	0°20	23°21	23° 6	24°D 0	24° 5	15°29	n.a.	F 19
S 20	11 36 50	26° 6'34	4♑30	12° 0	20°39	21°48	26°28	1°46	0°21	23°24	23° 7	24° 0	24° 1	15°36	n.a.	S 20
S 21	11 40 47	27° 5'02	16°32	11°38	20°57	22°15	26°20	1°43	0°22	23°26	23° 8	24° 0	23°58	15°42	n.a.	S 21
M22	11 44 43	28° 3'29	28°44	11°21	21°18	22°43	26°12	1°40	0°23	23°28	23° 9	24° 0	23°55	15°49	n.a.	M22
T 23	11 48 40	29° 1'54	11♒12	11° 8	21°40	23°11	26° 5	1°36	0°23	23°30	23°10	24° 1	23°52	15°56	n.a.	T 23
W24	11 52 36	0♈ 0'17	23°57	11° 1	22° 4	23°39	25°57	1°33	0°24	23°33	23°12	24° 1	23°49	16° 3	n.a.	W24
T 25	11 56 33	0°58'39	7♓ 2	10°D58	22°30	24° 7	25°49	1°29	0°25	23°35	23°13	24° 2	23°46	16° 9	n.a.	T 25
F 26	12 0 29	1°56'58	20°28	11° 1	22°57	24°35	25°42	1°26	0°26	23°37	23°14	24°R 2	23°42	16°16	n.a.	F 26
S 27	12 4 26	2°55'16	4♈13	11° 8	23°26	25° 3	25°34	1°22	0°26	23°39	23°16	24° 2	23°39	16°23	n.a.	S 27
S 28	12 8 22	3°53'32	18°16	11°21	23°56	25°32	25°27	1°19	0°27	23°42	23°17	24° 1	23°36	16°29	n.a.	S 28
M29	12 12 19	4°51'46	2♉31	11°38	24°28	26° 1	25°19	1°15	0°27	23°44	23°18	24° 0	23°33	16°36	n.a.	M29
T 30	12 16 15	5°49'58	16°55	11°59	25° 1	26°30	25°12	1°11	0°28	23°46	23°19	23°59	23°30	16°43	n.a.	T 30
W31	12 20 12	6♈48'08	1♊21	12♓25	25♒36	26♊59	25♍ 4	1♏ 7	0♑28	23♓48	23♈21	23♍57	23♍27	16♐50	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	8s51	6n34	2s32	0n 4	3n23	6s58	7n51	25n10	2n29	2n 3	1n43	10s 7	2n31	24s 1	0s18	4s31	1s43	4s37	14s36	2n24	2n 0	17s40		n.a.
T 2	8 29	10 30	3 34	0 8	3 28	7 14	7 42	25 12	2 28	2 6	1 43	10 7	2 31	24 1	0 18	4 30	1 43	4 36	14 36	2 24	2 1	17 41		n.a.
W 3	8 7	13 52	4 24	0 7	3 31	7 30	7 32	25 14	2 27	2 9	1 43	10 6	2 31	24 1	0 18	4 29	1 43	4 35	14 36	2 23	2 2	17 41		n.a.
T 4	7 44	16 26	4 59	0 3	3 32	7 46	7 23	25 16	2 26	2 12	1 43	10 5	2 31	24 1	0 18	4 28	1 43	4 35	14 36	2 23	2 4	17 42		n.a.
F 5	7 21	18 1	5 15	0s 6	3 32	8 1	7 12	25 18	2 25	2 15	1 43	10 4	2 32	24 1	0 18	4 27	1 43	4 34	14 35	2 23	2 5	17 42		n.a.
S 6	6 59	18 28	5 12	0 18	3 30	8 16	7 2	25 20	2 24	2 18	1 43	10 3	2 32	24 1	0 18	4 26	1 43	4 34	14 35	2 23	2 6	17 43		n.a.
S 7	6 36	17 45	4 50	0 34	3 27	8 31	6 51	25 21	2 23	2 21	1 43	10 3	2 32	24 1	0 18	4 25	1 43	4 33	14 35	2 24	2 7	17 44		n.a.
M 8	6 13	15 57	4 11	0 53	3 22	8 45	6 39	25 23	2 23	2 24	1 43	10 2	2 32	24 1	0 18	4 24	1 43	4 32	14 35	2 24	2 9	17 44		n.a.
T 9	5 50	13 12	3 17	1 15	3 15	8 58	6 28	25 25	2 22	2 27	1 43	10 1	2 32	24 1	0 19	4 23	1 43	4 32	14 34	2 25	2 10	17 45		n.a.
W10	5 27	9 45	2 12	1 39	3 7	9 11	6 16	25 26	2 21	2 30	1 43	10 0	2 32	24 1	0 19	4 22	1 43	4 31	14 34	2 25	2 11	17 45		n.a.
T 11	5 4	5 49	1 0	2 6	2 57	9 24	6 4	25 28	2 20	2 33	1 44	9 59	2 33	24 1	0 19	4 22	1 43	4 31	14 34	2 25	2 12	17 46		n.a.
F 12	4 41	1 41	0n13	2 34	2 46	9 35	5 52	25 30	2 19	2 36	1 44	9 58	2 33	24 1	0 19	4 21	1 43	4 30	14 34	2 25	2 14	17 47		n.a.
S 13	4 17	2s27	1 24	3 4	2 34	9 46	5 40	25 31	2 18	2 39	1 44	9 57	2 33	24 1	0 19	4 20	1 43	4 30	14 34	2 25	2 15	17 47		n.a.
S 14	3 54	6 22	2 29	3 34	2 20	9 56	5 28	25 32	2 17	2 42	1 44	9 56	2 33	24 1	0 19	4 19	1 43	4 29	14 33	2 25	2 16	17 48		n.a.
M15	3 31	9 55	3 26	4 4	2 6	10 6	5 16	25 34	2 17	2 45	1 44	9 55	2 33	24 1	0 19	4 18	1 43	4 28	14 33	2 25	2 18	17 48		n.a.
T 16	3 8	12 59	4 13	4 34	1 51	10 15	5 4	25 35	2 16	2 48	1 44	9 54	2 33	24 1	0 19	4 17	1 43	4 28	14 33	2 25	2 19	17 49		n.a.
W17	2 44	15 26	4 47	5 4	1 35	10 23	4 52	25 36	2 15	2 51	1 44	9 52	2 34	24 1	0 19	4 16	1 43	4 27	14 33	2 25	2 20	17 50		n.a.
T 18	2 21	17 12	5 9	5 32	1 19	10 30	4 40	25 37	2 14	2 54	1 44	9 51	2 34	24 1	0 19	4 15	1 43	4 27	14 33	2 25	2 21	17 50		n.a.
F 19	1 57	18 13	5 17	5 59	1 3	10 37	4 28	25 38	2 13	2 57	1 44	9 50	2 34	24 1	0 19	4 14	1 43	4 26	14 33	2 25	2 23	17 51		n.a.
S 20	1 34	18 26	5 12	6 25	0 47	10 43	4 17	25 39	2 13	3 0	1 44	9 49	2 34	24 1	0 19	4 13	1 43	4 25	14 32	2 25	2 24	17 51		n.a.
S 21	1 10	17 49	4 53	6 48	0 31	10 48	4 5	25 40	2 12	3 3	1 44	9 48	2 34	24 1	0 19	4 13	1 43	4 25	14 32	2 25	2 25	17 52		n.a.
M22	0 47	16 23	4 21	7 10	0 15	10 53	3 53	25 41	2 11	3 6	1 44	9 46	2 34	24 1	0 19	4 12	1 43	4 24	14 32	2 24	2 26	17 53		n.a.
T 23	0 23	14 9	3 36	7 29	0s 1	10 56	3 42	25 42	2 10	3 10	1 44	9 45	2 34	24 1	0 19	4 11	1 43	4 24	14 32	2 24	2 28	17 53		n.a.
W24	0n 0	11 11	2 39	7 46	0 16	10 59	3 31	25 42	2 9	3 13	1 44	9 44	2 34	24 1	0 19	4 10	1 43	4 23	14 32	2 24	2 29	17 54		n.a.
T 25	0 24	7 35	1 33	8 0	0 30	11 1	3 20	25 43	2 9	3 16	1 44	9 43	2 35	24 1	0 19	4 9	1 43	4 22	14 32	2 24	2 30	17 54		n.a.
F 26	0 47	3 31	0 20	8 12	0 45	11 3	3 9	25 43	2 8	3 19	1 44	9 41	2 35	24 1	0 19	4 8	1 43	4 22	14 32	2 24	2 32	17 55		n.a.
S 27	1 10	0n50	0s56	8 22	0 58	11 4	2 58	25 44	2 7	3 22	1 44	9 40	2 35	24 1	0 19	4 7	1 43	4 21	14 31	2 24	2 33	17 55		n.a.
S 28	1 34	5 14	2 10	8 29	1 11	11 4	2 47	25 44	2 6	3 25	1 43	9 38	2 35	24 1	0 19	4 6	1 43	4 21	14 31	2 24	2 34	17 56		n.a.
M29	1 57	9 24	3 17	8 33	1 23	11 3	2 37	25 44	2 5	3 28	1 43	9 37	2 35	24 1	0 19	4 5	1 43	4 20	14 31	2 24	2 35	17 56		n.a.
T 30	2 20	13 2	4 12	8 35	1 34	11 1	2 27	25 44	2 5	3 30	1 43	9 36	2 35	24 1	0 19	4 5	1 43	4 20	14 31	2 25	2 37	17 57		n.a.
W31	2n44	15n54	4s52	8s35	1s45	10s59	2n17	25n44	2n 4	3n33	1n43	9s34	2n35	24s 1	0s19	4s 4	1s43	4s19	14s31	2n26	2n38	17s58		n.a.

Julian Day Number = 1682400.5, Delta T = 03h14m47s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'26, Lahiri = - 5°25'25 Julian Calendar 1 March 107 BCE == Greg. Calendar 26 Feb. 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

APRIL 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 24 9	7♈46'16	15♊46	12♓56	26♒11	27♊28	24°R57	1°R 4	0♑29	23♓51	23♈22	23°R56	23♍23	16♐56	n.a.	T 1
F 2	12 28 5	8°44'22	0♋ 6	13°30	26°48	27°58	24♍50	1♏ 0	0°29	23°53	23°23	23♍55	23°20	17° 3	n.a.	F 2
S 3	12 32 2	9°42'26	14°16	14° 8	27°26	28°27	24°42	0°56	0°29	23°55	23°25	23°D55	23°17	17°10	n.a.	S 3
S 4	12 35 58	10°40'28	28°15	14°50	28° 6	28°57	24°35	0°52	0°29	23°57	23°26	23°56	23°14	17°17	n.a.	S 4
M 5	12 39 55	11°38'27	12♌ 2	15°36	28°46	29°27	24°28	0°48	0°29	23°59	23°27	23°57	23°11	17°23	n.a.	M 5
T 6	12 43 51	12°36'25	25°37	16°25	29°27	29°57	24°21	0°44	0°30	24° 2	23°29	23°58	23° 7	17°30	n.a.	T 6
W 7	12 47 48	13°34'21	8♍59	17°18	0♓ 9	0♋27	24°14	0°40	0°30	24° 4	23°30	24° 0	23° 4	17°37	n.a.	W 7
T 8	12 51 44	14°32'15	22° 8	18°13	0°53	0°57	24° 7	0°35	0°R30	24° 6	23°31	24°R 0	23° 1	17°43	n.a.	T 8
F 9	12 55 41	15°30'07	5♎ 4	19°12	1°37	1°28	24° 1	0°31	0°30	24° 8	23°33	24° 0	22°58	17°50	n.a.	F 9
S 10	12 59 38	16°27'57	17°47	20°14	2°22	1°58	23°54	0°27	0°30	24°10	23°34	23°58	22°55	17°57	n.a.	S 10
S 11	13 3 34	17°25'46	0♏18	21°19	3° 8	2°29	23°47	0°23	0°29	24°12	23°35	23°56	22°52	18° 4	n.a.	S 11
M12	13 7 31	18°23'34	12°38	22°26	3°55	3° 0	23°41	0°18	0°29	24°14	23°37	23°52	22°48	18°10	n.a.	M12
T 13	13 11 27	19°21'20	24°47	23°36	4°42	3°30	23°35	0°14	0°29	24°16	23°38	23°48	22°45	18°17	n.a.	T 13
W14	13 15 24	20°19'05	6♐47	24°49	5°31	4° 2	23°28	0°10	0°29	24°19	23°39	23°44	22°42	18°24	n.a.	W14
T 15	13 19 20	21°16'48	18°42	26° 4	6°20	4°33	23°22	0° 6	0°28	24°21	23°41	23°40	22°39	18°30	n.a.	T 15
F 16	13 23 17	22°14'30	0♑35	27°22	7°10	5° 4	23°16	0° 1	0°28	24°23	23°42	23°37	22°36	18°37	n.a.	F 16
S 17	13 27 13	23°12'11	12°30	28°43	8° 0	5°35	23°10	29♎57	0°28	24°25	23°44	23°35	22°32	18°44	n.a.	S 17
S 18	13 31 10	24° 9'51	24°30	0♈ 5	8°51	6° 7	23° 5	29°52	0°27	24°27	23°45	23°D34	22°29	18°51	n.a.	S 18
M19	13 35 7	25° 7'30	6♒41	1°30	9°43	6°38	22°59	29°48	0°27	24°29	23°46	23°35	22°26	18°57	n.a.	M19
T 20	13 39 3	26° 5'07	19° 7	2°58	10°36	7°10	22°54	29°44	0°26	24°31	23°48	23°36	22°23	19° 4	n.a.	T 20
W21	13 43 0	27° 2'43	1♓53	4°28	11°29	7°42	22°48	29°39	0°25	24°33	23°49	23°38	22°20	19°11	n.a.	W21
T 22	13 46 56	28° 0'19	15° 2	6° 0	12°22	8°14	22°43	29°35	0°25	24°35	23°50	23°39	22°17	19°18	n.a.	T 22
F 23	13 50 53	28°57'53	28°37	7°34	13°16	8°46	22°38	29°30	0°24	24°37	23°52	23°R39	22°13	19°24	n.a.	F 23
S 24	13 54 49	29°55'26	12♈36	9°11	14°11	9°18	22°33	29°26	0°23	24°39	23°53	23°38	22°10	19°31	n.a.	S 24
S 25	13 58 46	0♉52'58	26°58	10°50	15° 6	9°50	22°28	29°21	0°22	24°40	23°54	23°35	22° 7	19°38	n.a.	S 25
M26	14 2 42	1°50'29	11♉37	12°31	16° 2	10°23	22°24	29°17	0°22	24°42	23°56	23°30	22° 4	19°44	n.a.	M26
T 27	14 6 39	2°47'58	26°28	14°15	16°58	10°55	22°19	29°13	0°21	24°44	23°57	23°25	22° 1	19°51	n.a.	T 27
W28	14 10 35	3°45'27	11♊20	16° 1	17°54	11°28	22°15	29° 8	0°20	24°46	23°58	23°19	21°58	19°58	n.a.	W28
T 29	14 14 32	4°42'54	26° 7	17°49	18°51	12° 1	22°11	29° 4	0°19	24°48	24° 0	23°14	21°54	20° 5	n.a.	T 29
F 30	14 18 29	5♉40'20	10♋42	19♈39	19♓49	12♋33	22♍ 7	28♎59	0♑18	24♓50	24♈ 1	23♍10	21♍51	20♐11	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 7	17n45	5s13	8s32	1s54	10s56	2n 7	25n44	2n 3	3n36	1n43	9s33	2n35	24s 1	0s19	4s 3	1s43	4s18	14s31	2n26	2n39	17s58		n.a.
F 2	3 30	18 28	5 14	8 27	2 3	10 53	1 57	25 44	2 2	3 39	1 43	9 31	2 35	24 1	0 19	4 2	1 43	4 18	14 31	2 26	2 40	17 59		n.a.
S 3	3 53	18 1	4 56	8 20	2 12	10 49	1 48	25 43	2 2	3 42	1 43	9 30	2 35	24 1	0 19	4 1	1 43	4 17	14 31	2 26	2 42	17 59		n.a.
S 4	4 16	16 29	4 21	8 10	2 19	10 44	1 39	25 43	2 1	3 45	1 43	9 29	2 35	24 1	0 19	4 0	1 43	4 17	14 30	2 26	2 43	18 0		n.a.
M 5	4 39	13 59	3 31	7 59	2 26	10 38	1 29	25 42	2 0	3 47	1 43	9 27	2 36	24 1	0 19	3 59	1 43	4 16	14 30	2 26	2 44	18 0		n.a.
T 6	5 2	10 46	2 30	7 45	2 32	10 32	1 21	25 42	1 59	3 50	1 43	9 26	2 36	24 1	0 19	3 58	1 43	4 16	14 30	2 25	2 46	18 1		n.a.
W 7	5 25	7 2	1 22	7 29	2 38	10 25	1 12	25 41	1 59	3 53	1 42	9 24	2 36	24 1	0 19	3 58	1 43	4 15	14 30	2 25	2 47	18 1		n.a.
T 8	5 48	3 0	0 10	7 12	2 42	10 18	1 3	25 40	1 58	3 55	1 42	9 23	2 36	24 2	0 19	3 57	1 43	4 14	14 30	2 24	2 48	18 2		n.a.
F 9	6 10	1s 7	1n 1	6 52	2 46	10 10	0 55	25 39	1 57	3 58	1 42	9 21	2 36	24 2	0 19	3 56	1 43	4 14	14 30	2 25	2 49	18 2		n.a.
S 10	6 33	5 6	2 7	6 30	2 50	10 1	0 47	25 38	1 56	4 0	1 42	9 20	2 36	24 2	0 19	3 55	1 43	4 13	14 30	2 25	2 51	18 3		n.a.
S 11	6 55	8 48	3 6	6 7	2 52	9 52	0 39	25 37	1 56	4 3	1 42	9 18	2 36	24 2	0 19	3 54	1 43	4 13	14 30	2 26	2 52	18 3		n.a.
M12	7 17	12 3	3 56	5 42	2 54	9 42	0 31	25 35	1 55	4 5	1 42	9 17	2 36	24 2	0 19	3 53	1 43	4 12	14 30	2 28	2 53	18 4		n.a.
T 13	7 39	14 44	4 34	5 15	2 55	9 31	0 24	25 34	1 54	4 8	1 42	9 15	2 36	24 2	0 19	3 53	1 43	4 12	14 30	2 29	2 54	18 4		n.a.
W14	8 1	16 46	5 0	4 46	2 56	9 20	0 16	25 32	1 53	4 10	1 41	9 14	2 36	24 2	0 19	3 52	1 43	4 11	14 30	2 31	2 56	18 5		n.a.
T 15	8 23	18 2	5 12	4 16	2 56	9 9	0 9	25 30	1 53	4 12	1 41	9 12	2 36	24 2	0 19	3 51	1 43	4 11	14 30	2 33	2 57	18 5		n.a.
F 16	8 45	18 32	5 11	3 44	2 55	8 57	0 2	25 28	1 52	4 15	1 41	9 10	2 36	24 2	0 19	3 50	1 43	4 10	14 30	2 34	2 58	18 6		n.a.
S 17	9 7	18 12	4 56	3 10	2 54	8 44	0s 5	25 26	1 51	4 17	1 41	9 9	2 36	24 2	0 19	3 49	1 44	4 10	14 30	2 35	2 59	18 6		n.a.
S 18	9 28	17 3	4 29	2 35	2 52	8 31	0 11	25 24	1 51	4 19	1 41	9 7	2 36	24 2	0 19	3 49	1 44	4 9	14 30	2 35	3 1	18 7		n.a.
M19	9 50	15 7	3 49	1 58	2 49	8 17	0 18	25 22	1 50	4 21	1 40	9 6	2 36	24 2	0 20	3 48	1 44	4 9	14 30	2 35	3 2	18 7		n.a.
T 20	10 11	12 27	2 57	1 20	2 46	8 3	0 24	25 19	1 49	4 23	1 40	9 4	2 36	24 2	0 20	3 47	1 44	4 8	14 30	2 34	3 3	18 8		n.a.
W21	10 32	9 7	1 56	0 41	2 42	7 48	0 30	25 17	1 48	4 25	1 40	9 3	2 36	24 2	0 20	3 46	1 44	4 8	14 30	2 33	3 5	18 8		n.a.
T 22	10 53	5 14	0 47	0n 0	2 38	7 33	0 36	25 14	1 48	4 27	1 40	9 1	2 36	24 2	0 20	3 46	1 44	4 7	14 30	2 33	3 6	18 9		n.a.
F 23	11 14	0 58	0s27	0 42	2 33	7 17	0 42	25 11	1 47	4 29	1 40	9 0	2 36	24 2	0 20	3 45	1 44	4 7	14 30	2 33	3 7	18 9		n.a.
S 24	11 34	3n29	1 41	1 26	2 27	7 1	0 47	25 9	1 46	4 30	1 39	8 58	2 36	24 2	0 20	3 44	1 44	4 6	14 30	2 33	3 8	18 10		n.a.
S 25	11 55	7 51	2 51	2 10	2 21	6 45	0 53	25 5	1 46	4 32	1 39	8 57	2 36	24 2	0 20	3 43	1 44	4 6	14 30	2 35	3 10	18 10		n.a.
M26	12 15	11 50	3 51	2 56	2 15	6 28	0 58	25 2	1 45	4 34	1 39	8 55	2 36	24 2	0 20	3 43	1 44	4 5	14 30	2 36	3 11	18 11		n.a.
T 27	12 35	15 6	4 36	3 43	2 8	6 10	1 3	24 59	1 44	4 35	1 39	8 53	2 36	24 2	0 20	3 42	1 44	4 5	14 30	2 39	3 12	18 11		n.a.
W28	12 55	17 23	5 3	4 31	2 0	5 52	1 8	24 55	1 44	4 37	1 38	8 52	2 36	24 2	0 20	3 41	1 44	4 4	14 30	2 41	3 13	18 12		n.a.
T 29	13 14	18 30	5 9	5 20	1 52	5 34	1 13	24 52	1 43	4 38	1 38	8 50	2 36	24 2	0 20	3 41	1 44	4 4	14 30	2 43	3 15	18 12		n.a.
F 30	13n34	18n22	4s55	6n10	1s43	5s16	1s17	24n48	1n42	4n39	1n38	8s49	2n35	24s 2	0s20	3s40	1s44	4s 3	14s30	2n45	3n16	18s13		n.a.

Julian Day Number = 1682431.5, Delta T = 03h14m46s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'22, Lahiri = - 5°25'21 Julian Calendar 1 Apr. 107 BCE == Greg. Calendar 29 March 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

MAY 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 22 25	6♉37'44	24♋59	21♈31	20♓46	13♋ 6	22°R 3	28°R55	0°R17	24♓52	24♈ 2	23°R 7	21♍48	20♐18	n.a.	S 1
S 2	14 26 22	7°35'07	8♌56	23°26	21°44	13°39	22♍ 0	28♎51	0♏16	24°53	24° 4	23°D 7	21°45	20°25	n.a.	S 2
M 3	14 30 18	8°32'29	22°34	25°23	22°43	14°12	21°56	28°46	0°14	24°55	24° 5	23♍ 7	21°42	20°32	n.a.	M 3
T 4	14 34 15	9°29'49	5♍54	27°21	23°42	14°45	21°53	28°42	0°13	24°57	24° 6	23° 9	21°38	20°38	n.a.	T 4
W 5	14 38 11	10°27'08	18°57	29°22	24°41	15°19	21°50	28°38	0°12	24°59	24° 8	23°R10	21°35	20°45	n.a.	W 5
T 6	14 42 8	11°24'26	1♎46	1♉25	25°41	15°52	21°47	28°33	0°11	25° 0	24° 9	23° 9	21°32	20°52	n.a.	T 6
F 7	14 46 4	12°21'43	14°22	3°29	26°41	16°25	21°44	28°29	0° 9	25° 2	24°10	23° 7	21°29	20°58	n.a.	F 7
S 8	14 50 1	13°18'59	26°48	5°36	27°41	16°59	21°41	28°25	0° 8	25° 4	24°12	23° 3	21°26	21° 5	n.a.	S 8
S 9	14 53 58	14°16'14	9♏ 5	7°43	28°41	17°32	21°39	28°21	0° 7	25° 5	24°13	22°56	21°23	21°12	n.a.	S 9
M10	14 57 54	15°13'29	21°14	9°52	29°42	18° 6	21°37	28°17	0° 5	25° 7	24°14	22°48	21°19	21°19	n.a.	M10
T 11	15 1 51	16°10'42	3♐16	12° 2	0♈43	18°40	21°35	28°12	0° 4	25° 8	24°15	22°38	21°16	21°25	n.a.	T 11
W12	15 5 47	17° 7'55	15°13	14°13	1°45	19°14	21°33	28° 8	0° 2	25°10	24°17	22°28	21°13	21°32	n.a.	W12
T 13	15 9 44	18° 5'08	27° 6	16°24	2°47	19°48	21°31	28° 4	0° 1	25°12	24°18	22°18	21°10	21°39	n.a.	T 13
F 14	15 13 40	19° 2'20	8♑58	18°36	3°49	20°22	21°29	28° 0	29♐59	25°13	24°19	22°10	21° 7	21°45	n.a.	F 14
S 15	15 17 37	19°59'32	20°52	20°48	4°51	20°56	21°28	27°56	29°57	25°15	24°20	22° 4	21° 4	21°52	n.a.	S 15
S 16	15 21 34	20°56'43	2♒51	22°59	5°53	21°30	21°27	27°52	29°56	25°16	24°22	22° 0	21° 0	21°59	n.a.	S 16
M17	15 25 30	21°53'54	15° 0	25°10	6°56	22° 4	21°26	27°49	29°54	25°17	24°23	21°59	20°57	22° 6	n.a.	M17
T 18	15 29 27	22°51'04	27°23	27°20	7°59	22°38	21°25	27°45	29°52	25°19	24°24	21°D58	20°54	22°12	n.a.	T 18
W19	15 33 23	23°48'14	10♓ 6	29°30	9° 3	23°13	21°24	27°41	29°51	25°20	24°25	21°59	20°51	22°19	n.a.	W19
T 20	15 37 20	24°45'25	23°12	1♊38	10° 6	23°47	21°24	27°37	29°49	25°22	24°27	21°R59	20°48	22°26	n.a.	T 20
F 21	15 41 16	25°42'34	6♈45	3°44	11°10	24°22	21°24	27°34	29°47	25°23	24°28	21°58	20°44	22°33	n.a.	F 21
S 22	15 45 13	26°39'44	20°48	5°49	12°14	24°56	21°D24	27°30	29°45	25°24	24°29	21°56	20°41	22°39	n.a.	S 22
S 23	15 49 9	27°36'54	5♉17	7°53	13°18	25°31	21°24	27°27	29°43	25°26	24°30	21°50	20°38	22°46	n.a.	S 23
M24	15 53 6	28°34'03	20°10	9°54	14°22	26° 6	21°24	27°23	29°41	25°27	24°31	21°42	20°35	22°53	n.a.	M24
T 25	15 57 3	29°31'13	5♊17	11°54	15°27	26°41	21°24	27°20	29°39	25°28	24°32	21°33	20°32	22°59	n.a.	T 25
W26	16 0 59	0♊28'22	20°30	13°52	16°31	27°16	21°25	27°16	29°37	25°29	24°34	21°23	20°29	23° 6	n.a.	W26
T 27	16 4 56	1°25'30	5♋37	15°47	17°36	27°51	21°26	27°13	29°35	25°30	24°35	21°14	20°25	23°13	n.a.	T 27
F 28	16 8 52	2°22'39	20°28	17°41	18°41	28°26	21°27	27°10	29°33	25°32	24°36	21° 7	20°22	23°20	n.a.	F 28
S 29	16 12 49	3°19'47	4♌58	19°32	19°47	29° 1	21°28	27° 7	29°31	25°33	24°37	21° 2	20°19	23°26	n.a.	S 29
S 30	16 16 45	4°16'54	19° 3	21°22	20°52	29°36	21°29	27° 4	29°29	25°34	24°38	20°59	20°16	23°33	n.a.	S 30
M31	16 20 42	5♊14'01	2♍41	23♊ 9	21♈58	0♌12	21♍31	27♎ 1	29♐27	25♓35	24♈39	20°D59	20♍13	23♐40	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13n53	17n 3	4s23	7n 1	1s35	4s57	1s22	24n44	1n41	4n41	1n38	8s47	2n35	24s 2	0s20	3s39	1s44	4s 3	14s30	2n46	3n17	18s13		n.a.
S 2	14 12	14 45	3 36	7 53	1 25	4 38	1 26	24 40	1 41	4 42	1 37	8 46	2 35	24 2	0 20	3 38	1 44	4 3	14 30	2 46	3 19	18 13		n.a.
M 3	14 30	11 40	2 38	8 45	1 16	4 18	1 30	24 36	1 40	4 43	1 37	8 44	2 35	24 2	0 20	3 38	1 44	4 2	14 30	2 46	3 20	18 14		n.a.
T 4	14 49	8 2	1 32	9 38	1 6	3 58	1 34	24 31	1 39	4 44	1 37	8 43	2 35	24 2	0 20	3 37	1 44	4 2	14 30	2 45	3 21	18 14		n.a.
W 5	15 7	4 4	0 23	10 30	0 55	3 38	1 38	24 27	1 39	4 45	1 37	8 42	2 35	24 2	0 20	3 37	1 44	4 1	14 30	2 45	3 22	18 15		n.a.
T 6	15 25	0s 0	0n46	11 24	0 45	3 17	1 41	24 22	1 38	4 46	1 36	8 40	2 35	24 2	0 20	3 36	1 44	4 1	14 30	2 45	3 24	18 15		n.a.
F 7	15 43	4 1	1 52	12 17	0 34	2 56	1 45	24 18	1 37	4 47	1 36	8 39	2 35	24 2	0 20	3 35	1 44	4 0	14 30	2 46	3 25	18 16		n.a.
S 8	16 1	7 47	2 51	13 10	0 24	2 35	1 48	24 13	1 37	4 48	1 36	8 37	2 35	24 2	0 20	3 35	1 44	4 0	14 30	2 47	3 26	18 16		n.a.
S 9	16 18	11 11	3 41	14 2	0 13	2 14	1 51	24 8	1 36	4 48	1 36	8 36	2 35	24 2	0 20	3 34	1 44	4 0	14 30	2 50	3 27	18 17		n.a.
M10	16 35	14 5	4 21	14 54	0 2	1 52	1 54	24 2	1 35	4 49	1 35	8 35	2 35	24 2	0 20	3 33	1 44	3 59	14 30	2 53	3 29	18 17		n.a.
T 11	16 52	16 20	4 48	15 45	0n 8	1 30	1 57	23 57	1 35	4 50	1 35	8 33	2 34	24 2	0 20	3 33	1 44	3 59	14 30	2 57	3 30	18 17		n.a.
W12	17 8	17 52	5 3	16 35	0 19	1 8	2 0	23 52	1 34	4 50	1 35	8 32	2 34	24 2	0 20	3 32	1 45	3 59	14 30	3 1	3 31	18 18		n.a.
T 13	17 24	18 37	5 4	17 24	0 29	0 45	2 3	23 46	1 33	4 51	1 34	8 31	2 34	24 2	0 20	3 32	1 45	3 58	14 31	3 5	3 32	18 18		n.a.
F 14	17 40	18 32	4 52	18 11	0 39	0 23	2 5	23 40	1 33	4 51	1 34	8 29	2 34	24 2	0 20	3 31	1 45	3 58	14 31	3 8	3 34	18 19		n.a.
S 15	17 56	17 39	4 28	18 56	0 49	0n 0	2 7	23 34	1 32	4 51	1 34	8 28	2 34	24 2	0 20	3 31	1 45	3 57	14 31	3 11	3 35	18 19		n.a.
S 16	18 12	15 59	3 51	19 40	0 58	0 23	2 10	23 28	1 31	4 52	1 34	8 27	2 34	24 2	0 20	3 30	1 45	3 57	14 31	3 12	3 36	18 19		n.a.
M17	18 27	13 35	3 4	20 21	1 7	0 46	2 12	23 22	1 31	4 52	1 33	8 25	2 34	24 2	0 20	3 29	1 45	3 57	14 31	3 13	3 37	18 20		n.a.
T 18	18 41	10 31	2 8	21 0	1 15	1 10	2 14	23 16	1 30	4 52	1 33	8 24	2 33	24 2	0 20	3 29	1 45	3 56	14 31	3 13	3 39	18 20		n.a.
W19	18 56	6 54	1 3	21 36	1 22	1 33	2 15	23 9	1 29	4 52	1 33	8 23	2 33	24 2	0 20	3 28	1 45	3 56	14 31	3 13	3 40	18 21		n.a.
T 20	19 10	2 50	0s 6	22 10	1 29	1 57	2 17	23 2	1 29	4 52	1 32	8 22	2 33	24 3	0 20	3 28	1 45	3 56	14 31	3 13	3 41	18 21		n.a.
F 21	19 24	1n31	1 18	22 42	1 36	2 21	2 18	22 56	1 28	4 51	1 32	8 21	2 33	24 3	0 20	3 27	1 45	3 55	14 31	3 13	3 43	18 21		n.a.
S 22	19 38	5 56	2 27	23 10	1 41	2 45	2 20	22 49	1 27	4 51	1 32	8 19	2 33	24 3	0 20	3 27	1 45	3 55	14 32	3 14	3 44	18 22		n.a.
S 23	19 51	10 9	3 29	23 37	1 46	3 9	2 21	22 42	1 27	4 51	1 32	8 18	2 33	24 3	0 20	3 27	1 45	3 55	14 32	3 16	3 45	18 22		n.a.
M24	20 4	13 50	4 18	24 0	1 50	3 33	2 22	22 34	1 26	4 51	1 31	8 17	2 32	24 3	0 20	3 26	1 45	3 55	14 32	3 19	3 46	18 23		n.a.
T 25	20 16	16 39	4 50	24 21	1 54	3 57	2 23	22 27	1 25	4 50	1 31	8 16	2 32	24 3	0 20	3 26	1 45	3 54	14 32	3 23	3 48	18 23		n.a.
W26	20 29	18 20	5 2	24 39	1 57	4 21	2 24	22 20	1 25	4 50	1 31	8 15	2 32	24 3	0 20	3 25	1 45	3 54	14 32	3 27	3 49	18 23		n.a.
T 27	20 40	18 42	4 53	24 54	1 59	4 45	2 25	22 12	1 24	4 49	1 30	8 14	2 32	24 3	0 20	3 25	1 45	3 54	14 32	3 31	3 50	18 24		n.a.
F 28	20 52	17 47	4 24	25 7	2 0	5 10	2 25	22 4	1 24	4 48	1 30	8 13	2 32	24 3	0 20	3 24	1 45	3 54	14 32	3 34	3 51	18 24		n.a.
S 29	21 3	15 42	3 38	25 18	2 1	5 34	2 26	21 56	1 23	4 48	1 30	8 12	2 32	24 3	0 20	3 24	1 45	3 53	14 33	3 36	3 53	18 25		n.a.
S 30	21 14	12 44	2 41	25 26	2 1	5 59	2 26	21 48	1 22	4 47	1 30	8 11	2 31	24 3	0 20	3 24	1 46	3 53	14 33	3 37	3 54	18 25		n.a.
M31	21n25	9n 9	1s35	25n31	2n 0	6n23	2s27	21n40	1n22	4n46	1n29	8s10	2n31	24s 3	0s20	3s23	1s46	3s53	14s33	3n37	3n55	18s25		n.a.

Julian Day Number = 1682461.5, Delta T = 03h14m45s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'18, Lahiri = - 5°25'17 Julian Calendar 1 May 107 BCE == Greg. Calendar 28 Apr. 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

JUNE 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 24 38	6♊11'08	15♍56	24♊54	23♈ 3	0♌47	21♍32	26°R58	29°R25	25♓36	24♈40	20°R59	20♍ 9	23♐47	n.a.	T 1
W 2	16 28 35	7° 8'14	28°50	26°37	24° 9	1°22	21°34	26♎55	29♐23	25°37	24°41	20♍59	20° 6	23°53	n.a.	W 2
T 3	16 32 32	8° 5'20	11♎27	28°18	25°15	1°58	21°36	26°52	29°20	25°38	24°42	20°57	20° 3	24° 0	n.a.	T 3
F 4	16 36 28	9° 2'26	23°51	29°57	26°22	2°33	21°39	26°49	29°18	25°39	24°43	20°53	20° 0	24° 7	n.a.	F 4
S 5	16 40 25	9°59'32	6♏ 4	1♋33	27°28	3° 9	21°41	26°47	29°16	25°40	24°44	20°47	19°57	24°13	n.a.	S 5
S 6	16 44 21	10°56'37	18°10	3° 7	28°34	3°45	21°44	26°44	29°14	25°40	24°45	20°38	19°54	24°20	n.a.	S 6
M 7	16 48 18	11°53'43	0♐10	4°39	29°41	4°21	21°46	26°42	29°12	25°41	24°46	20°26	19°50	24°27	n.a.	M 7
T 8	16 52 14	12°50'49	12° 6	6° 9	0♑48	4°56	21°49	26°39	29° 9	25°42	24°47	20°13	19°47	24°34	n.a.	T 8
W 9	16 56 11	13°47'56	24° 0	7°37	1°55	5°32	21°52	26°37	29° 7	25°43	24°48	19°59	19°44	24°40	n.a.	W 9
T 10	17 0 7	14°45'02	5♑52	9° 3	3° 2	6° 8	21°55	26°35	29° 5	25°44	24°49	19°46	19°41	24°47	n.a.	T 10
F 11	17 4 4	15°42'09	17°45	10°26	4° 9	6°44	21°59	26°32	29° 2	25°44	24°50	19°35	19°38	24°54	n.a.	F 11
S 12	17 8 1	16°39'16	29°40	11°47	5°17	7°20	22° 2	26°30	29° 0	25°45	24°51	19°26	19°35	25° 1	n.a.	S 12
S 13	17 11 57	17°36'24	11♒41	13° 5	6°24	7°57	22° 6	26°28	28°58	25°46	24°52	19°19	19°31	25° 7	n.a.	S 13
M14	17 15 54	18°33'32	23°51	14°22	7°32	8°33	22°10	26°26	28°55	25°46	24°53	19°16	19°28	25°14	n.a.	M14
T 15	17 19 50	19°30'41	6♓13	15°35	8°40	9° 9	22°14	26°25	28°53	25°47	24°54	19°14	19°25	25°21	n.a.	T 15
W16	17 23 47	20°27'51	18°53	16°47	9°47	9°46	22°18	26°23	28°51	25°47	24°54	19°14	19°22	25°27	n.a.	W16
T 17	17 27 43	21°25'02	1♈55	17°55	10°55	10°22	22°23	26°21	28°48	25°48	24°55	19°14	19°19	25°34	n.a.	T 17
F 18	17 31 40	22°22'13	15°23	19° 1	12° 4	10°59	22°27	26°20	28°46	25°49	24°56	19°13	19°15	25°41	n.a.	F 18
S 19	17 35 36	23°19'25	29°20	20° 4	13°12	11°35	22°32	26°18	28°44	25°49	24°57	19° 9	19°12	25°48	n.a.	S 19
S 20	17 39 33	24°16'38	13♉45	21° 5	14°20	12°12	22°37	26°17	28°41	25°49	24°58	19° 4	19° 9	25°54	n.a.	S 20
M21	17 43 30	25°13'52	28°36	22° 2	15°29	12°48	22°42	26°16	28°39	25°50	24°58	18°55	19° 6	26° 1	n.a.	M21
T 22	17 47 26	26°11'06	13♊45	22°57	16°37	13°25	22°47	26°15	28°36	25°50	24°59	18°45	19° 3	26° 8	n.a.	T 22
W23	17 51 23	27° 8'22	29° 4	23°48	17°46	14° 2	22°52	26°13	28°34	25°51	25° 0	18°35	19° 0	26°14	n.a.	W23
T 24	17 55 19	28° 5'38	14♋21	24°36	18°55	14°39	22°58	26°12	28°31	25°51	25° 1	18°25	18°56	26°21	n.a.	T 24
F 25	17 59 16	29° 2'55	29°24	25°20	20° 4	15°16	23° 3	26°12	28°29	25°51	25° 1	18°16	18°53	26°28	n.a.	F 25
S 26	18 3 12	0♋ 0'12	14♌ 5	26° 1	21°13	15°53	23° 9	26°11	28°27	25°51	25° 2	18°10	18°50	26°35	n.a.	S 26
S 27	18 7 9	0°57'30	28°19	26°38	22°22	16°30	23°15	26°10	28°24	25°52	25° 3	18° 7	18°47	26°41	n.a.	S 27
M28	18 11 6	1°54'48	12♍ 4	27°11	23°31	17° 7	23°21	26° 9	28°22	25°52	25° 3	18° 6	18°44	26°48	n.a.	M28
T 29	18 15 2	2°52'07	25°22	27°40	24°40	17°44	23°27	26° 9	28°19	25°52	25° 4	18°D 6	18°41	26°55	n.a.	T 29
W30	18 18 59	3♋49'27	8♎16	28♋ 4	25♉50	18♌22	23♍34	26♎ 8	28♐17	25♓52	25♈ 5	18°R 6	18♍37	27♐ 2	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	21n35	5n12	0s27	25n35	1n59	6n47	2s27	21n31	1n21	4n45	1n29	8s10	2n31	24s 3	0s20	3s23	1s46	3s53	14s33	3n37	3n56	18s26		n.a.	T 1
W 2	21 45	1 6	0n42	25 36	1 57	7 12	2 27	21 23	1 20	4 44	1 29	8 9	2 31	24 3	0 20	3 23	1 46	3 52	14 33	3 37	3 58	18 26		n.a.	W 2
T 3	21 54	2s57	1 46	25 36	1 54	7 36	2 27	21 14	1 20	4 43	1 28	8 8	2 30	24 3	0 20	3 22	1 46	3 52	14 33	3 38	3 59	18 26		n.a.	T 3
F 4	22 3	6 49	2 45	25 33	1 51	8 0	2 27	21 5	1 19	4 42	1 28	8 7	2 30	24 3	0 20	3 22	1 46	3 52	14 34	3 39	4 0	18 27		n.a.	F 4
S 5	22 12	10 19	3 34	25 29	1 47	8 25	2 26	20 56	1 18	4 41	1 28	8 6	2 30	24 3	0 20	3 22	1 46	3 52	14 34	3 42	4 1	18 27		n.a.	S 5
S 6	22 20	13 22	4 14	25 23	1 43	8 49	2 26	20 47	1 18	4 39	1 28	8 6	2 30	24 3	0 20	3 21	1 46	3 52	14 34	3 45	4 3	18 27		n.a.	S 6
M 7	22 28	15 49	4 42	25 15	1 38	9 13	2 26	20 38	1 17	4 38	1 27	8 5	2 30	24 3	0 20	3 21	1 46	3 51	14 34	3 50	4 4	18 28		n.a.	M 7
T 8	22 35	17 35	4 57	25 6	1 32	9 37	2 25	20 29	1 17	4 37	1 27	8 4	2 29	24 3	0 20	3 21	1 46	3 51	14 34	3 55	4 5	18 28		n.a.	T 8
W 9	22 43	18 35	4 59	24 55	1 26	10 1	2 24	20 19	1 16	4 35	1 27	8 4	2 29	24 3	0 21	3 21	1 46	3 51	14 34	4 0	4 7	18 28		n.a.	W 9
T 10	22 49	18 46	4 48	24 43	1 20	10 25	2 24	20 10	1 15	4 34	1 26	8 3	2 29	24 3	0 21	3 20	1 46	3 51	14 35	4 6	4 8	18 29		n.a.	T 10
F 11	22 56	18 8	4 25	24 30	1 13	10 48	2 23	20 0	1 15	4 32	1 26	8 2	2 29	24 3	0 21	3 20	1 46	3 51	14 35	4 10	4 9	18 29		n.a.	F 11
S 12	23 2	16 42	3 50	24 15	1 5	11 12	2 22	19 50	1 14	4 30	1 26	8 2	2 28	24 3	0 21	3 20	1 46	3 51	14 35	4 14	4 10	18 29		n.a.	S 12
S 13	23 7	14 31	3 4	24 0	0 57	11 35	2 21	19 40	1 13	4 28	1 26	8 1	2 28	24 3	0 21	3 20	1 46	3 51	14 35	4 16	4 12	18 30		n.a.	S 13
M14	23 12	11 41	2 10	23 43	0 48	11 59	2 20	19 30	1 13	4 27	1 25	8 1	2 28	24 3	0 21	3 19	1 46	3 50	14 36	4 18	4 13	18 30		n.a.	M14
T 15	23 17	8 16	1 8	23 26	0 39	12 22	2 18	19 19	1 12	4 25	1 25	8 1	2 28	24 3	0 21	3 19	1 47	3 50	14 36	4 18	4 14	18 30		n.a.	T 15
W16	23 21	4 25	0 2	23 8	0 30	12 45	2 17	19 9	1 11	4 23	1 25	8 0	2 28	24 3	0 21	3 19	1 47	3 50	14 36	4 18	4 15	18 31		n.a.	W16
T 17	23 25	0 15	1s 7	22 49	0 20	13 7	2 16	18 58	1 11	4 21	1 24	8 0	2 27	24 3	0 21	3 19	1 47	3 50	14 36	4 19	4 17	18 31		n.a.	T 17
F 18	23 29	4n 4	2 14	22 30	0 10	13 30	2 14	18 48	1 10	4 19	1 24	7 59	2 27	24 3	0 21	3 19	1 47	3 50	14 36	4 19	4 18	18 31		n.a.	F 18
S 19	23 32	8 19	3 15	22 10	0s 1	13 52	2 13	18 37	1 9	4 17	1 24	7 59	2 27	24 3	0 21	3 19	1 47	3 50	14 37	4 20	4 19	18 32		n.a.	S 19
S 20	23 35	12 14	4 6	21 50	0 12	14 14	2 11	18 26	1 9	4 14	1 24	7 59	2 27	24 3	0 21	3 19	1 47	3 50	14 37	4 23	4 20	18 32		n.a.	S 20
M21	23 37	15 29	4 42	21 30	0 23	14 36	2 9	18 15	1 8	4 12	1 23	7 59	2 26	24 3	0 21	3 18	1 47	3 50	14 37	4 26	4 22	18 32		n.a.	M21
T 22	23 39	17 45	5 0	21 9	0 35	14 57	2 8	18 3	1 8	4 10	1 23	7 58	2 26	24 3	0 21	3 18	1 47	3 50	14 37	4 30	4 23	18 33		n.a.	T 22
W23	23 40	18 46	4 56	20 49	0 47	15 18	2 6	17 52	1 7	4 8	1 23	7 58	2 26	24 3	0 21	3 18	1 47	3 50	14 38	4 34	4 24	18 33		n.a.	W23
T 24	23 41	18 26	4 31	20 28	0 59	15 39	2 4	17 41	1 6	4 5	1 23	7 58	2 25	24 2	0 21	3 18	1 47	3 50	14 38	4 38	4 25	18 33		n.a.	T 24
F 25	23 42	16 48	3 47	20 8	1 12	16 0	2 2	17 29	1 6	4 3	1 22	7 58	2 25	24 2	0 21	3 18	1 47	3 50	14 38	4 41	4 27	18 34		n.a.	F 25
S 26	23 42	14 5	2 50	19 48	1 25	16 20	2 0	17 17	1 5	4 0	1 22	7 58	2 25	24 2	0 21	3 18	1 47	3 50	14 38	4 44	4 28	18 34		n.a.	S 26
S 27	23 42	10 35	1 43	19 28	1 38	16 40	1 58	17 5	1 4	3 57	1 22	7 58	2 25	24 2	0 21	3 18	1 47	3 50	14 39	4 45	4 29	18 34		n.a.	S 27
M28	23 41	6 37	0 32	19 9	1 51	17 0	1 55	16 53	1 4	3 55	1 22	7 58	2 24	24 2	0 21	3 18	1 47	3 50	14 39	4 45	4 30	18 34		n.a.	M28
T 29	23 40	2 27	0n38	18 50	2 4	17 19	1 53	16 41	1 3	3 52	1 21	7 58	2 24	24 2	0 21	3 18	1 47	3 50	14 39	4 45	4 32	18 35		n.a.	T 29
W30	23n39	1s43	1n45	18n32	2s17	17n38	1s51	16n29	1n 3	3n49	1n21	7s58	2n24	24s 2	0s21	3s18	1s48	3s50	14s39	4n45	4n33	18s35		n.a.	W30

Julian Day Number = 1682492.5, Delta T = 03h14m44s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'13, Lahiri = - 5°25'13 Julian Calendar 1 June 107 BCE == Greg. Calendar 29 May 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

JULY 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 22 55	4♋46'47	20♎50	28♋25	26♉59	18♌59	23♍40	26°R 8	28°R15	25♓52	25♈ 5	18°R 5	18♍34	27♐ 8	n.a.	T 1
F 2	18 26 52	5°44'08	3♏ 8	28°40	28° 9	19°36	23°47	26♎ 8	28♐12	25°52	25° 6	18♍ 2	18°31	27°15	n.a.	F 2
S 3	18 30 48	6°41'29	15°15	28°50	29°18	20°14	23°53	26° 8	28°10	25°R52	25° 6	17°56	18°28	27°22	n.a.	S 3
S 4	18 34 45	7°38'52	27°15	28°56	0♊28	20°51	24° 0	26°D 8	28° 8	25°52	25° 7	17°48	18°25	27°28	n.a.	S 4
M 5	18 38 41	8°36'15	9♐10	28°R57	1°38	21°29	24° 7	26° 8	28° 5	25°52	25° 7	17°38	18°21	27°35	n.a.	M 5
T 6	18 42 38	9°33'40	21° 2	28°52	2°48	22° 7	24°14	26° 8	28° 3	25°52	25° 8	17°26	18°18	27°42	n.a.	T 6
W 7	18 46 35	10°31'05	2♑55	28°42	3°58	22°44	24°22	26° 8	28° 0	25°52	25° 8	17°14	18°15	27°49	n.a.	W 7
T 8	18 50 31	11°28'32	14°49	28°26	5° 8	23°22	24°29	26° 9	27°58	25°52	25° 9	17° 2	18°12	27°55	n.a.	T 8
F 9	18 54 28	12°25'59	26°46	28° 6	6°18	24° 0	24°37	26° 9	27°56	25°51	25° 9	16°51	18° 9	28° 2	n.a.	F 9
S 10	18 58 24	13°23'28	8♒47	27°40	7°29	24°38	24°44	26°10	27°54	25°51	25° 9	16°43	18° 6	28° 9	n.a.	S 10
S 11	19 2 21	14°20'58	20°55	27° 9	8°39	25°16	24°52	26°10	27°51	25°51	25°10	16°38	18° 2	28°16	n.a.	S 11
M12	19 6 17	15°18'30	3♓11	26°34	9°50	25°54	25° 0	26°11	27°49	25°51	25°10	16°35	17°59	28°22	n.a.	M12
T 13	19 10 14	16°16'03	15°39	25°54	11° 0	26°32	25° 8	26°12	27°47	25°50	25°11	16°D34	17°56	28°29	n.a.	T 13
W14	19 14 10	17°13'38	28°22	25°11	12°11	27°10	25°16	26°13	27°45	25°50	25°11	16°34	17°53	28°36	n.a.	W14
T 15	19 18 7	18°11'14	11♈23	24°25	13°22	27°48	25°24	26°14	27°42	25°50	25°11	16°35	17°50	28°42	n.a.	T 15
F 16	19 22 4	19° 8'52	24°47	23°36	14°33	28°26	25°33	26°15	27°40	25°49	25°12	16°R35	17°47	28°49	n.a.	F 16
S 17	19 26 0	20° 6'31	8♉36	22°46	15°43	29° 5	25°41	26°16	27°38	25°49	25°12	16°33	17°43	28°56	n.a.	S 17
S 18	19 29 57	21° 4'13	22°50	21°56	16°54	29°43	25°50	26°17	27°36	25°48	25°12	16°30	17°40	29° 3	n.a.	S 18
M19	19 33 53	22° 1'56	7♊28	21° 5	18° 6	0♍21	25°59	26°19	27°34	25°48	25°12	16°24	17°37	29° 9	n.a.	M19
T 20	19 37 50	22°59'40	22°25	20°16	19°17	1° 0	26° 7	26°20	27°32	25°47	25°12	16°17	17°34	29°16	n.a.	T 20
W21	19 41 46	23°57'27	7♋34	19°30	20°28	1°38	26°16	26°22	27°29	25°47	25°13	16° 9	17°31	29°23	n.a.	W21
T 22	19 45 43	24°55'15	22°44	18°47	21°39	2°17	26°25	26°23	27°27	25°46	25°13	16° 2	17°27	29°29	n.a.	T 22
F 23	19 49 39	25°53'05	7♌45	18° 8	22°51	2°56	26°35	26°25	27°25	25°45	25°13	15°56	17°24	29°36	n.a.	F 23
S 24	19 53 36	26°50'56	22°28	17°34	24° 2	3°34	26°44	26°27	27°23	25°45	25°13	15°51	17°21	29°43	n.a.	S 24
S 25	19 57 33	27°48'48	6♍47	17° 6	25°14	4°13	26°53	26°29	27°21	25°44	25°13	15°49	17°18	29°50	n.a.	S 25
M26	20 1 29	28°46'42	20°39	16°45	26°26	4°52	27° 3	26°31	27°19	25°43	25°13	15°D49	17°15	29°56	n.a.	M26
T 27	20 5 26	29°44'37	4♎ 3	16°31	27°37	5°31	27°12	26°33	27°18	25°43	25°13	15°50	17°12	0♑ 3	n.a.	T 27
W28	20 9 22	0♌42'34	17° 1	16°D24	28°49	6°10	27°22	26°35	27°16	25°42	25°13	15°51	17° 8	0°10	n.a.	W28
T 29	20 13 19	1°40'32	29°38	16°26	0♋ 1	6°49	27°32	26°38	27°14	25°41	25°R13	15°R52	17° 5	0°16	n.a.	T 29
F 30	20 17 15	2°38'31	11♏57	16°35	1°13	7°28	27°42	26°40	27°12	25°40	25°13	15°51	17° 2	0°23	n.a.	F 30
S 31	20 21 12	3♌36'32	24♏ 3	16♋52	2♋25	8♍ 7	27♍52	26♎43	27♐10	25♓39	25♈13	15♍49	16♍59	0♑30	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23n37	5s41	2n44	18n15	2s30	17n56	1s49	16n17	1n 2	3n47	1n21	7s58	2n24	24s 2	0s21	3s18	1s48	3s50	14s40	4n46	4n34	18s35			n.a.
F 2	23 35	9 20	3 35	17 59	2 44	18 15	1 46	16 4	1 1	3 44	1 20	7 58	2 23	24 2	0 21	3 18	1 48	3 50	14 40	4 47	4 35	18 35			n.a.
S 3	23 32	12 32	4 15	17 44	2 57	18 32	1 44	15 52	1 1	3 41	1 20	7 59	2 23	24 2	0 21	3 18	1 48	3 50	14 40	4 49	4 37	18 36			n.a.
S 4	23 29	15 10	4 43	17 31	3 10	18 50	1 41	15 39	1 0	3 38	1 20	7 59	2 23	24 2	0 21	3 18	1 48	3 50	14 40	4 52	4 38	18 36			n.a.
M 5	23 25	17 9	4 59	17 18	3 22	19 6	1 39	15 26	0 59	3 35	1 20	7 59	2 23	24 2	0 21	3 18	1 48	3 50	14 41	4 56	4 39	18 36			n.a.
T 6	23 21	18 23	5 1	17 7	3 34	19 23	1 36	15 13	0 59	3 32	1 20	7 59	2 22	24 2	0 21	3 19	1 48	3 50	14 41	5 1	4 40	18 37			n.a.
W 7	23 17	18 50	4 51	16 58	3 46	19 39	1 33	15 0	0 58	3 28	1 19	8 0	2 22	24 2	0 21	3 19	1 48	3 50	14 41	5 6	4 42	18 37			n.a.
T 8	23 12	18 26	4 28	16 51	3 56	19 54	1 31	14 47	0 57	3 25	1 19	8 0	2 22	24 2	0 21	3 19	1 48	3 50	14 41	5 11	4 43	18 37			n.a.
F 9	23 7	17 14	3 53	16 45	4 6	20 9	1 28	14 34	0 57	3 22	1 19	8 1	2 22	24 2	0 21	3 19	1 48	3 50	14 42	5 15	4 44	18 37			n.a.
S 10	23 1	15 15	3 7	16 41	4 15	20 24	1 25	14 20	0 56	3 19	1 19	8 1	2 21	24 2	0 21	3 19	1 48	3 51	14 42	5 18	4 45	18 38			n.a.
S 11	22 55	12 36	2 12	16 39	4 23	20 38	1 22	14 7	0 56	3 15	1 18	8 2	2 21	24 2	0 21	3 19	1 48	3 51	14 42	5 20	4 47	18 38			n.a.
M12	22 49	9 21	1 11	16 39	4 30	20 52	1 20	13 53	0 55	3 12	1 18	8 2	2 21	24 2	0 21	3 19	1 48	3 51	14 42	5 21	4 48	18 38			n.a.
T 13	22 42	5 39	0 5	16 42	4 35	21 5	1 17	13 40	0 54	3 9	1 18	8 3	2 20	24 2	0 21	3 20	1 48	3 51	14 43	5 22	4 49	18 38			n.a.
W14	22 35	1 37	1s 3	16 46	4 39	21 17	1 14	13 26	0 54	3 5	1 18	8 3	2 20	24 2	0 21	3 20	1 48	3 51	14 43	5 21	4 51	18 39			n.a.
T 15	22 27	2n35	2 9	16 52	4 41	21 29	1 11	13 12	0 53	3 2	1 17	8 4	2 20	24 2	0 21	3 20	1 48	3 51	14 43	5 21	4 52	18 39			n.a.
F 16	22 19	6 46	3 10	17 0	4 41	21 40	1 8	12 58	0 52	2 58	1 17	8 4	2 20	24 2	0 21	3 20	1 49	3 51	14 44	5 21	4 53	18 39			n.a.
S 17	22 11	10 43	4 2	17 10	4 40	21 51	1 5	12 44	0 52	2 54	1 17	8 5	2 19	24 2	0 21	3 20	1 49	3 52	14 44	5 22	4 54	18 39			n.a.
S 18	22 2	14 10	4 41	17 21	4 36	22 1	1 2	12 30	0 51	2 51	1 17	8 6	2 19	24 2	0 21	3 21	1 49	3 52	14 44	5 23	4 56	18 39			n.a.
M19	21 53	16 50	5 2	17 34	4 31	22 11	0 59	12 15	0 51	2 47	1 17	8 7	2 19	24 2	0 21	3 21	1 49	3 52	14 44	5 25	4 57	18 40			n.a.
T 20	21 43	18 25	5 4	17 49	4 24	22 20	0 56	12 1	0 50	2 43	1 16	8 7	2 19	24 2	0 21	3 21	1 49	3 52	14 45	5 28	4 58	18 40			n.a.
W21	21 33	18 44	4 45	18 4	4 15	22 29	0 53	11 46	0 49	2 40	1 16	8 8	2 18	24 2	0 21	3 22	1 49	3 52	14 45	5 31	4 59	18 40			n.a.
T 22	21 23	17 43	4 6	18 21	4 4	22 37	0 50	11 32	0 49	2 36	1 16	8 9	2 18	24 2	0 21	3 22	1 49	3 52	14 45	5 34	5 1	18 40			n.a.
F 23	21 12	15 28	3 10	18 38	3 52	22 44	0 47	11 17	0 48	2 32	1 16	8 10	2 18	24 2	0 21	3 22	1 49	3 53	14 46	5 37	5 2	18 40			n.a.
S 24	21 1	12 15	2 2	18 56	3 38	22 50	0 44	11 2	0 47	2 28	1 15	8 11	2 18	24 2	0 21	3 22	1 49	3 53	14 46	5 38	5 3	18 41			n.a.
S 25	20 50	8 22	0 49	19 14	3 24	22 56	0 41	10 48	0 47	2 24	1 15	8 12	2 17	24 2	0 21	3 23	1 49	3 53	14 46	5 39	5 4	18 41			n.a.
M26	20 38	4 9	0n26	19 32	3 8	23 2	0 38	10 33	0 46	2 20	1 15	8 13	2 17	24 1	0 21	3 23	1 49	3 53	14 46	5 39	5 6	18 41			n.a.
T 27	20 26	0s 9	1 37	19 50	2 51	23 6	0 35	10 18	0 45	2 16	1 15	8 14	2 17	24 1	0 21	3 23	1 49	3 54	14 47	5 39	5 7	18 41			n.a.
W28	20 13	4 17	2 41	20 8	2 34	23 10	0 32	10 2	0 45	2 12	1 15	8 15	2 17	24 1	0 21	3 24	1 49	3 54	14 47	5 38	5 8	18 41			n.a.
T 29	20 0	8 7	3 35	20 25	2 17	23 14	0 28	9 47	0 44	2 8	1 14	8 16	2 16	24 1	0 21	3 24	1 49	3 54	14 47	5 38	5 9	18 42			n.a.
F 30	19 47	11 31	4 17	20 42	1 59	23 17	0 25	9 32	0 44	2 4	1 14	8 17	2 16	24 1	0 21	3 25	1 49	3 54	14 47	5 38	5 11	18 42			n.a.
S 31	19n34	14s21	4n48	20n57	1s41	23n19	0s22	9n17	0n43	1n59	1n14	8s18	2n16	24s 1	0s21	3s25	1s49	3s55	14s48	5n39	5n12	18s42			n.a.

Julian Day Number = 1682522.5, Delta T = 03h14m43s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'09, Lahiri = - 5°25'09 Julian Calendar 1 July 107 BCE == Greg. Calendar 28 June 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

AUGUST 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 25 8	4♌34'34	6♐ 0	17♋18	3♋37	8♍47	28♍ 2	26♎45	27°R 8	25°R38	25°R13	15°R45	16♍56	0♉37	n.a.	S 1
M 2	20 29 5	5°32'38	17°54	17°52	4°49	9°26	28°12	26°48	27♐ 7	25♓37	25♈13	15♍40	16°53	0°43	n.a.	M 2
T 3	20 33 2	6°30'44	29°46	18°34	6° 1	10° 5	28°22	26°51	27° 5	25°36	25°13	15°33	16°49	0°50	n.a.	T 3
W 4	20 36 58	7°28'51	11♉40	19°23	7°14	10°45	28°33	26°54	27° 3	25°35	25°13	15°26	16°46	0°57	n.a.	W 4
T 5	20 40 55	8°27'00	23°38	20°20	8°26	11°24	28°43	26°57	27° 2	25°34	25°13	15°19	16°43	1° 4	n.a.	T 5
F 6	20 44 51	9°25'11	5♒42	21°24	9°38	12° 4	28°53	27° 0	27° 0	25°33	25°13	15°13	16°40	1°10	n.a.	F 6
S 7	20 48 48	10°23'23	17°54	22°35	10°51	12°43	29° 4	27° 3	26°59	25°32	25°13	15° 9	16°37	1°17	n.a.	S 7
S 8	20 52 44	11°21'38	0♓14	23°52	12° 4	13°23	29°15	27° 6	26°57	25°31	25°12	15° 6	16°33	1°24	n.a.	S 8
M 9	20 56 41	12°19'54	12°44	25°15	13°16	14° 3	29°25	27° 9	26°56	25°30	25°12	15°D 5	16°30	1°30	n.a.	M 9
T 10	21 0 37	13°18'12	25°26	26°42	14°29	14°42	29°36	27°13	26°54	25°29	25°12	15° 6	16°27	1°37	n.a.	T 10
W11	21 4 34	14°16'33	8♈21	28°15	15°42	15°22	29°47	27°16	26°53	25°28	25°12	15° 7	16°24	1°44	n.a.	W11
T 12	21 8 30	15°14'55	21°31	29°51	16°55	16° 2	29°58	27°20	26°51	25°27	25°11	15° 8	16°21	1°51	n.a.	T 12
F 13	21 12 27	16°13'20	4♉58	1♌31	18° 7	16°42	0♎ 9	27°23	26°50	25°26	25°11	15°10	16°18	1°57	n.a.	F 13
S 14	21 16 24	17°11'47	18°43	3°14	19°20	17°22	0°20	27°27	26°49	25°24	25°11	15°R10	16°14	2° 4	n.a.	S 14
S 15	21 20 20	18°10'17	2♊48	5° 0	20°34	18° 2	0°32	27°31	26°48	25°23	25°10	15° 9	16°11	2°11	n.a.	S 15
M16	21 24 17	19° 8'49	17°10	6°47	21°47	18°42	0°43	27°35	26°47	25°22	25°10	15° 8	16° 8	2°17	n.a.	M16
T 17	21 28 13	20° 7'23	1♋47	8°36	23° 0	19°22	0°54	27°38	26°45	25°21	25°10	15° 5	16° 5	2°24	n.a.	T 17
W18	21 32 10	21° 5'59	16°33	10°27	24°13	20° 3	1° 6	27°42	26°44	25°19	25° 9	15° 1	16° 2	2°31	n.a.	W18
T 19	21 36 6	22° 4'38	1♌22	12°18	25°26	20°43	1°17	27°47	26°43	25°18	25° 9	14°58	15°58	2°38	n.a.	T 19
F 20	21 40 3	23° 3'19	16° 6	14°10	26°40	21°23	1°29	27°51	26°42	25°17	25° 8	14°56	15°55	2°44	n.a.	F 20
S 21	21 43 59	24° 2'01	0♍38	16° 2	27°53	22° 4	1°40	27°55	26°41	25°15	25° 8	14°54	15°52	2°51	n.a.	S 21
S 22	21 47 56	25° 0'46	14°51	17°55	29° 7	22°44	1°52	27°59	26°40	25°14	25° 7	14°D54	15°49	2°58	n.a.	S 22
M23	21 51 53	25°59'33	28°41	19°47	0♌20	23°25	2° 4	28° 4	26°40	25°12	25° 7	14°54	15°46	3° 4	n.a.	M23
T 24	21 55 49	26°58'21	12♎ 8	21°38	1°34	24° 5	2°16	28° 8	26°39	25°11	25° 6	14°55	15°43	3°11	n.a.	T 24
W25	21 59 46	27°57'12	25°10	23°30	2°48	24°46	2°28	28°13	26°38	25°10	25° 6	14°56	15°39	3°18	n.a.	W25
T 26	22 3 42	28°56'04	7♏50	25°21	4° 1	25°27	2°40	28°17	26°37	25° 8	25° 5	14°58	15°36	3°25	n.a.	T 26
F 27	22 7 39	29°54'58	20°12	27°11	5°15	26° 8	2°52	28°22	26°37	25° 7	25° 5	14°59	15°33	3°31	n.a.	F 27
S 28	22 11 35	0♍53'55	2♐20	29° 0	6°29	26°49	3° 4	28°27	26°36	25° 5	25° 4	14°R59	15°30	3°38	n.a.	S 28
S 29	22 15 32	1°52'53	14°19	0♍49	7°43	27°30	3°16	28°31	26°35	25° 4	25° 4	14°58	15°27	3°45	n.a.	S 29
M30	22 19 28	2°51'53	26°12	2°37	8°57	28°11	3°28	28°36	26°35	25° 2	25° 3	14°57	15°24	3°51	n.a.	M30
T 31	22 23 25	3♍50'54	8♉ 5	4♍24	10♌11	28♍52	3♎40	28♎41	26♐34	25♓ 1	25♈ 2	14♍56	15♍20	3♉58	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	19n20	16s32	5n 5	21n11	1s24	23n20	0s19	9n 1	0n42	1n55	1n14	8s19	2n15	24s 1	0s21	3s25	1s49	3s55	14s48	5n41	5n13	18s42			n.a.
M 2	19 6	18 1	5 9	21 24	1 7	23 21	0 16	8 46	0 42	1 51	1 14	8 21	2 15	24 1	0 21	3 26	1 50	3 55	14 48	5 43	5 14	18 42			n.a.
T 3	18 51	18 42	5 0	21 35	0 50	23 21	0 13	8 30	0 41	1 47	1 14	8 22	2 15	24 1	0 21	3 26	1 50	3 55	14 49	5 45	5 16	18 43			n.a.
W 4	18 36	18 34	4 38	21 44	0 33	23 20	0 10	8 14	0 40	1 42	1 13	8 23	2 15	24 1	0 21	3 27	1 50	3 56	14 49	5 48	5 17	18 43			n.a.
T 5	18 21	17 37	4 4	21 51	0 18	23 19	0 7	7 59	0 40	1 38	1 13	8 24	2 14	24 1	0 21	3 27	1 50	3 56	14 49	5 51	5 18	18 43			n.a.
F 6	18 6	15 51	3 18	21 56	0 3	23 17	0 4	7 43	0 39	1 34	1 13	8 26	2 14	24 1	0 21	3 28	1 50	3 56	14 49	5 53	5 19	18 43			n.a.
S 7	17 50	13 22	2 23	21 59	0n12	23 14	0 1	7 27	0 38	1 29	1 13	8 27	2 14	24 1	0 21	3 28	1 50	3 57	14 50	5 55	5 21	18 43			n.a.
S 8	17 34	10 16	1 20	21 59	0 25	23 11	0n 2	7 11	0 38	1 25	1 13	8 29	2 14	24 1	0 21	3 29	1 50	3 57	14 50	5 56	5 22	18 43			n.a.
M 9	17 17	6 39	0 13	21 56	0 37	23 7	0 5	6 55	0 37	1 20	1 12	8 30	2 13	24 1	0 21	3 29	1 50	3 57	14 50	5 56	5 23	18 44			n.a.
T 10	17 1	2 42	0s56	21 51	0 49	23 2	0 7	6 39	0 36	1 16	1 12	8 31	2 13	24 1	0 21	3 30	1 50	3 58	14 50	5 56	5 24	18 44			n.a.
W11	16 44	1n27	2 4	21 42	0 59	22 56	0 10	6 23	0 36	1 11	1 12	8 33	2 13	24 1	0 21	3 30	1 50	3 58	14 51	5 56	5 26	18 44			n.a.
T 12	16 27	5 36	3 6	21 31	1 8	22 50	0 13	6 6	0 35	1 7	1 12	8 34	2 13	24 1	0 21	3 31	1 50	3 58	14 51	5 55	5 27	18 44			n.a.
F 13	16 9	9 33	4 0	21 17	1 17	22 44	0 16	5 50	0 35	1 2	1 12	8 36	2 13	24 1	0 21	3 31	1 50	3 59	14 51	5 55	5 28	18 44			n.a.
S 14	15 51	13 5	4 41	21 1	1 24	22 36	0 19	5 34	0 34	0 57	1 12	8 37	2 12	24 1	0 21	3 32	1 50	3 59	14 52	5 54	5 29	18 44			n.a.
S 15	15 33	15 56	5 7	20 42	1 31	22 28	0 21	5 17	0 33	0 53	1 12	8 39	2 12	24 1	0 21	3 32	1 50	3 59	14 52	5 55	5 30	18 44			n.a.
M16	15 15	17 52	5 14	20 20	1 36	22 19	0 24	5 1	0 33	0 48	1 11	8 41	2 12	24 1	0 21	3 33	1 50	4 0	14 52	5 55	5 32	18 45			n.a.
T 17	14 56	18 41	5 1	19 55	1 40	22 10	0 27	4 44	0 32	0 43	1 11	8 42	2 12	24 1	0 21	3 33	1 50	4 0	14 52	5 57	5 33	18 45			n.a.
W18	14 37	18 14	4 28	19 29	1 44	22 0	0 29	4 28	0 31	0 39	1 11	8 44	2 11	24 1	0 21	3 34	1 50	4 1	14 53	5 58	5 34	18 45			n.a.
T 19	14 18	16 33	3 37	19 0	1 47	21 49	0 32	4 11	0 31	0 34	1 11	8 46	2 11	24 1	0 21	3 34	1 50	4 1	14 53	5 59	5 35	18 45			n.a.
F 20	13 59	13 46	2 32	18 29	1 48	21 37	0 35	3 55	0 30	0 29	1 11	8 47	2 11	24 1	0 21	3 35	1 50	4 1	14 53	6 0	5 37	18 45			n.a.
S 21	13 39	10 10	1 18	17 57	1 50	21 25	0 37	3 38	0 29	0 24	1 11	8 49	2 11	24 0	0 21	3 36	1 50	4 2	14 53	6 1	5 38	18 45			n.a.
S 22	13 20	6 2	0 0	17 22	1 50	21 13	0 40	3 21	0 29	0 19	1 11	8 51	2 11	24 0	0 21	3 36	1 50	4 2	14 54	6 1	5 39	18 45			n.a.
M23	13 0	1 41	1n15	16 47	1 50	20 59	0 42	3 4	0 28	0 15	1 10	8 53	2 10	24 0	0 21	3 37	1 50	4 2	14 54	6 1	5 40	18 45			n.a.
T 24	12 39	2s38	2 25	16 10	1 49	20 45	0 44	2 47	0 27	0 10	1 10	8 54	2 10	24 0	0 21	3 37	1 51	4 3	14 54	6 0	5 42	18 46			n.a.
W25	12 19	6 40	3 24	15 31	1 47	20 31	0 47	2 31	0 27	0 5	1 10	8 56	2 10	24 0	0 21	3 38	1 51	4 3	14 54	6 0	5 43	18 46			n.a.
T 26	11 58	10 18	4 12	14 52	1 45	20 15	0 49	2 14	0 26	0s 0	1 10	8 58	2 10	24 0	0 21	3 39	1 51	4 4	14 55	5 59	5 44	18 46			n.a.
F 27	11 38	13 23	4 47	14 11	1 43	20 0	0 51	1 57	0 26	0 5	1 10	9 0	2 9	24 0	0 21	3 39	1 51	4 4	14 55	5 59	5 45	18 46			n.a.
S 28	11 17	15 49	5 9	13 30	1 40	19 43	0 53	1 40	0 25	0 10	1 10	9 2	2 9	24 0	0 21	3 40	1 51	4 5	14 55	5 59	5 47	18 46			n.a.
S 29	10 55	17 32	5 16	12 48	1 36	19 26	0 55	1 23	0 24	0 15	1 10	9 4	2 9	24 0	0 21	3 40	1 51	4 5	14 55	5 59	5 48	18 46			n.a.
M30	10 34	18 29	5 10	12 5	1 32	19 9	0 58	1 6	0 24	0 20	1 9	9 6	2 9	24 0	0 21	3 41	1 51	4 5	14 55	5 59	5 49	18 46			n.a.
T 31	10n12	18s37	4n51	11n22	1n28	18n51	1n 0	0n49	0n23	0s25	1n 9	9s 8	2n 9	24s 0	0s21	3s42	1s51	4s 6	14s56	6n 0	5n50	18s46			n.a.

Julian Day Number = 1682553.5, Delta T = 03h14m42s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'05, Lahiri = - 5°25'05 Julian Calendar 1 Aug. 107 BCE == Greg. Calendar 29 July 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

SEPTEMBER 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 27 22	4♍49'58	20♉ 0	6♍11	11♌25	29♍33	3♎53	28♎46	26°R34	24°R59	25°R 2	14°R55	15♍17	4♉ 5	n.a.	W 1
T 2	22 31 18	5°49'04	2♒ 3	7°56	12°39	0♎14	4° 5	28°51	26♐34	24♓57	25♈ 1	14♍53	15°14	4°12	n.a.	T 2
F 3	22 35 15	6°48'11	14°15	9°41	13°53	0°55	4°17	28°57	26°33	24°56	25° 0	14°52	15°11	4°18	n.a.	F 3
S 4	22 39 11	7°47'21	26°38	11°24	15° 7	1°36	4°30	29° 2	26°33	24°54	25° 0	14°51	15° 8	4°25	n.a.	S 4
S 5	22 43 8	8°46'32	9♓14	13° 7	16°21	2°18	4°42	29° 7	26°33	24°53	24°59	14°D51	15° 4	4°32	n.a.	S 5
M 6	22 47 4	9°45'46	22° 4	14°49	17°35	2°59	4°55	29°12	26°33	24°51	24°58	14°51	15° 1	4°38	n.a.	M 6
T 7	22 51 1	10°45'02	5♈ 7	16°31	18°50	3°41	5° 7	29°18	26°32	24°49	24°57	14°51	14°58	4°45	n.a.	T 7
W 8	22 54 57	11°44'20	18°24	18°11	20° 4	4°22	5°20	29°23	26°32	24°48	24°57	14°52	14°55	4°52	n.a.	W 8
T 9	22 58 54	12°43'41	1♉54	19°51	21°19	5° 4	5°32	29°29	26°D32	24°46	24°56	14°52	14°52	4°59	n.a.	T 9
F 10	23 2 50	13°43'04	15°36	21°29	22°33	5°45	5°45	29°34	26°32	24°45	24°55	14°52	14°49	5° 5	n.a.	F 10
S 11	23 6 47	14°42'29	29°29	23° 8	23°47	6°27	5°58	29°40	26°32	24°43	24°54	14°R52	14°45	5°12	n.a.	S 11
S 12	23 10 44	15°41'57	13♊32	24°45	25° 2	7° 9	6°11	29°45	26°32	24°41	24°53	14°D52	14°42	5°19	n.a.	S 12
M13	23 14 40	16°41'28	27°44	26°22	26°17	7°51	6°23	29°51	26°33	24°40	24°53	14°52	14°39	5°25	n.a.	M13
T 14	23 18 37	17°41'00	12♋ 2	27°58	27°31	8°32	6°36	29°57	26°33	24°38	24°52	14°52	14°36	5°32	n.a.	T 14
W15	23 22 33	18°40'36	26°23	29°33	28°46	9°14	6°49	0♏ 3	26°33	24°36	24°51	14°53	14°33	5°39	n.a.	W15
T 16	23 26 30	19°40'13	10♌44	1♎ 7	0♍ 1	9°56	7° 2	0° 9	26°34	24°35	24°50	14°53	14°30	5°46	n.a.	T 16
F 17	23 30 26	20°39'53	25° 1	2°41	1°15	10°39	7°15	0°14	26°34	24°33	24°49	14°53	14°26	5°52	n.a.	F 17
S 18	23 34 23	21°39'35	9♍ 9	4°14	2°30	11°21	7°28	0°20	26°34	24°31	24°48	14°R54	14°23	5°59	n.a.	S 18
S 19	23 38 19	22°39'19	23° 3	5°47	3°45	12° 3	7°41	0°26	26°35	24°29	24°47	14°54	14°20	6° 6	n.a.	S 19
M20	23 42 16	23°39'05	6♎42	7°19	5° 0	12°45	7°54	0°33	26°35	24°28	24°46	14°53	14°17	6°12	n.a.	M20
T 21	23 46 12	24°38'54	20° 1	8°50	6°15	13°27	8° 7	0°39	26°36	24°26	24°45	14°52	14°14	6°19	n.a.	T 21
W22	23 50 9	25°38'44	3♏ 1	10°21	7°30	14°10	8°20	0°45	26°37	24°24	24°44	14°51	14°10	6°26	n.a.	W22
T 23	23 54 6	26°38'36	15°42	11°51	8°45	14°52	8°33	0°51	26°37	24°23	24°43	14°49	14° 7	6°33	n.a.	T 23
F 24	23 58 2	27°38'30	28° 5	13°21	10° 0	15°35	8°46	0°57	26°38	24°21	24°42	14°48	14° 4	6°39	n.a.	F 24
S 25	0 1 59	28°38'26	10♐15	14°50	11°15	16°17	8°59	1° 4	26°39	24°19	24°41	14°46	14° 1	6°46	n.a.	S 25
S 26	0 5 55	29°38'24	22°14	16°18	12°30	17° 0	9°12	1°10	26°40	24°18	24°40	14°45	13°58	6°53	n.a.	S 26
M27	0 9 52	0♎38'23	4♉ 7	17°45	13°45	17°43	9°25	1°16	26°41	24°16	24°39	14°D45	13°55	6°59	n.a.	M27
T 28	0 13 48	1°38'24	16° 0	19°12	15° 0	18°25	9°39	1°23	26°42	24°14	24°38	14°46	13°51	7° 6	n.a.	T 28
W29	0 17 45	2°38'27	27°56	20°39	16°15	19° 8	9°52	1°29	26°42	24°13	24°37	14°47	13°48	7°13	n.a.	W29
T 30	0 21 41	3♎38'32	10♒ 0	22♎ 4	17♍30	19♎51	10♎ 5	1♏36	26♐44	24♓11	24♈36	14♍49	13♍45	7♉20	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	9n51	17s55	4n19	10n38	1n24	18n32	1n 1	0n31	0n22	0s30	1n 9	9s10	2n 8	24s 0	0s21	3s42	1s51	4s 6	14s56	6n 0	5n52	18s46		n.a.
T 2	9 29	16 25	3 36	9 54	1 19	18 13	1 3	0 14	0 22	0 35	1 9	9 12	2 8	24 0	0 21	3 43	1 51	4 7	14 56	6 1	5 53	18 46		n.a.
F 3	9 7	14 10	2 42	9 10	1 14	17 53	1 5	0s 3	0 21	0 40	1 9	9 14	2 8	24 0	0 21	3 44	1 51	4 7	14 56	6 1	5 54	18 46		n.a.
S 4	8 44	11 13	1 39	8 25	1 9	17 33	1 7	0 20	0 20	0 45	1 9	9 16	2 8	24 0	0 21	3 44	1 51	4 8	14 57	6 2	5 55	18 47		n.a.
S 5	8 22	7 43	0 31	7 40	1 3	17 12	1 9	0 37	0 20	0 50	1 9	9 18	2 8	24 0	0 21	3 45	1 51	4 8	14 57	6 2	5 57	18 47		n.a.
M 6	8 0	3 47	0s40	6 55	0 57	16 51	1 10	0 55	0 19	0 55	1 9	9 20	2 7	24 0	0 21	3 46	1 51	4 8	14 57	6 2	5 58	18 47		n.a.
T 7	7 37	0n22	1 50	6 10	0 51	16 29	1 12	1 12	0 18	1 1	1 9	9 22	2 7	24 0	0 21	3 46	1 51	4 9	14 57	6 2	5 59	18 47		n.a.
W 8	7 14	4 35	2 56	5 25	0 45	16 7	1 13	1 29	0 18	1 6	1 8	9 24	2 7	24 0	0 21	3 47	1 51	4 9	14 57	6 2	6 0	18 47		n.a.
T 9	6 51	8 38	3 52	4 40	0 39	15 44	1 15	1 46	0 17	1 11	1 8	9 26	2 7	24 0	0 21	3 48	1 51	4 10	14 57	6 2	6 2	18 47		n.a.
F 10	6 28	12 16	4 37	3 54	0 33	15 21	1 16	2 4	0 16	1 16	1 8	9 28	2 7	24 0	0 21	3 48	1 51	4 10	14 58	6 1	6 3	18 47		n.a.
S 11	6 5	15 17	5 6	3 9	0 26	14 57	1 18	2 21	0 16	1 21	1 8	9 30	2 7	24 0	0 20	3 49	1 51	4 11	14 58	6 1	6 4	18 47		n.a.
S 12	5 42	17 26	5 17	2 24	0 19	14 33	1 19	2 38	0 15	1 26	1 8	9 32	2 6	24 0	0 20	3 50	1 51	4 11	14 58	6 1	6 5	18 47		n.a.
M13	5 19	18 32	5 9	1 40	0 13	14 9	1 20	2 55	0 15	1 32	1 8	9 35	2 6	24 0	0 20	3 50	1 51	4 12	14 58	6 1	6 7	18 47		n.a.
T 14	4 55	18 28	4 42	0 55	0 6	13 44	1 21	3 13	0 14	1 37	1 8	9 37	2 6	24 0	0 20	3 51	1 51	4 12	14 58	6 1	6 8	18 47		n.a.
W15	4 32	17 13	3 58	0 10	0s 1	13 19	1 22	3 30	0 13	1 42	1 8	9 39	2 6	24 0	0 20	3 52	1 51	4 13	14 59	6 1	6 9	18 47		n.a.
T 16	4 8	14 53	2 58	0s34	0 8	12 53	1 23	3 47	0 13	1 47	1 8	9 41	2 6	24 0	0 20	3 52	1 51	4 13	14 59	6 1	6 10	18 47		n.a.
F 17	3 44	11 38	1 48	1 18	0 14	12 27	1 24	4 5	0 12	1 52	1 8	9 43	2 6	24 0	0 20	3 53	1 51	4 13	14 59	6 1	6 11	18 47		n.a.
S 18	3 21	7 44	0 32	2 2	0 21	12 1	1 25	4 22	0 11	1 58	1 8	9 46	2 5	24 0	0 20	3 54	1 51	4 14	14 59	6 1	6 13	18 47		n.a.
S 19	2 57	3 28	0n45	2 45	0 28	11 34	1 26	4 39	0 11	2 3	1 7	9 48	2 5	24 0	0 20	3 54	1 51	4 14	14 59	6 1	6 14	18 47		n.a.
M20	2 33	0s53	1 58	3 28	0 35	11 7	1 27	4 56	0 10	2 8	1 7	9 50	2 5	24 0	0 20	3 55	1 51	4 15	14 59	6 1	6 15	18 47		n.a.
T 21	2 9	5 6	3 3	4 11	0 42	10 40	1 27	5 14	0 9	2 13	1 7	9 53	2 5	24 0	0 20	3 56	1 51	4 15	14 59	6 1	6 16	18 47		n.a.
W22	1 45	8 58	3 56	4 53	0 49	10 12	1 28	5 31	0 9	2 19	1 7	9 55	2 5	24 0	0 20	3 57	1 51	4 16	15 0	6 2	6 18	18 47		n.a.
T 23	1 21	12 19	4 36	5 35	0 55	9 45	1 28	5 48	0 8	2 24	1 7	9 57	2 5	24 0	0 20	3 57	1 51	4 16	15 0	6 3	6 19	18 47		n.a.
F 24	0 57	15 2	5 3	6 17	1 2	9 16	1 29	6 5	0 7	2 29	1 7	9 59	2 5	24 0	0 20	3 58	1 51	4 17	15 0	6 3	6 20	18 47		n.a.
S 25	0 33	17 2	5 15	6 58	1 9	8 48	1 29	6 22	0 7	2 34	1 7	10 2	2 4	24 0	0 20	3 59	1 51	4 17	15 0	6 4	6 21	18 47		n.a.
S 26	0 9	18 16	5 14	7 38	1 15	8 19	1 29	6 39	0 6	2 40	1 7	10 4	2 4	24 0	0 20	3 59	1 51	4 18	15 0	6 4	6 23	18 47		n.a.
M27	0s15	18 40	4 58	8 18	1 22	7 50	1 30	6 57	0 5	2 45	1 7	10 6	2 4	24 0	0 20	4 0	1 51	4 18	15 0	6 4	6 24	18 47		n.a.
T 28	0 40	18 15	4 31	8 58	1 28	7 21	1 30	7 14	0 5	2 50	1 7	10 9	2 4	24 0	0 20	4 1	1 51	4 19	15 0	6 4	6 25	18 47		n.a.
W29	1 4	17 2	3 51	9 36	1 34	6 52	1 30	7 31	0 4	2 56	1 7	10 11	2 4	24 0	0 20	4 1	1 51	4 19	15 0	6 3	6 26	18 47		n.a.
T 30	1s28	15s 2	3n 1	10s14	1s41	6n22	1n30	7s48	0n 3	3s 1	1n 7	10s14	2n 4	24s 0	0s20	4s 2	1s51	4s19	15s 0	6n 3	6n28	18s47		n.a.

Julian Day Number = 1682584.5, Delta T = 03h14m41s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°32'01, Lahiri = - 5°25'00 Julian Calendar 1 Sept. 107 BCE == Greg. Calendar 29 Aug. 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

OCTOBER 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 25 38	4♎38'38	22♒16	23♎29	18♍45	20♎34	10♎18	1♏42	26♐45	24°R 9	24°R35	14♍50	13♍42	7♉26	n.a.	F 1
S 2	0 29 35	5°38'46	4♓49	24°53	20° 0	21°17	10°31	1°49	26°46	24♓ 8	24♈34	14°51	13°39	7°33	n.a.	S 2
S 3	0 33 31	6°38'55	17°39	26°16	21°16	22° 0	10°45	1°55	26°47	24° 6	24°33	14°R52	13°35	7°40	n.a.	S 3
M 4	0 37 28	7°39'07	0♈48	27°39	22°31	22°43	10°58	2° 2	26°48	24° 4	24°32	14°51	13°32	7°46	n.a.	M 4
T 5	0 41 24	8°39'20	14°15	29° 0	23°46	23°26	11°11	2° 8	26°50	24° 3	24°31	14°49	13°29	7°53	n.a.	T 5
W 6	0 45 21	9°39'36	27°59	0♏20	25° 1	24° 9	11°24	2°15	26°51	24° 1	24°30	14°46	13°26	8° 0	n.a.	W 6
T 7	0 49 17	10°39'53	11♉57	1°40	26°17	24°52	11°38	2°22	26°52	24° 0	24°29	14°42	13°23	8° 7	n.a.	T 7
F 8	0 53 14	11°40'12	26° 5	2°58	27°32	25°36	11°51	2°28	26°54	23°58	24°28	14°38	13°20	8°13	n.a.	F 8
S 9	0 57 10	12°40'34	10♊18	4°14	28°47	26°19	12° 4	2°35	26°55	23°56	24°27	14°34	13°16	8°20	n.a.	S 9
S 10	1 1 7	13°40'57	24°33	5°29	0♎ 3	27° 2	12°17	2°42	26°57	23°55	24°25	14°32	13°13	8°27	n.a.	S 10
M11	1 5 4	14°41'23	8♋46	6°43	1°18	27°46	12°31	2°49	26°58	23°53	24°24	14°D30	13°10	8°33	n.a.	M11
T 12	1 9 0	15°41'50	22°56	7°55	2°33	28°29	12°44	2°56	27° 0	23°52	24°23	14°30	13° 7	8°40	n.a.	T 12
W13	1 12 57	16°42'20	6♌59	9° 4	3°49	29°13	12°57	3° 2	27° 2	23°50	24°22	14°32	13° 4	8°47	n.a.	W13
T 14	1 16 53	17°42'51	20°56	10°11	5° 4	29°57	13°10	3° 9	27° 3	23°49	24°21	14°33	13° 1	8°54	n.a.	T 14
F 15	1 20 50	18°43'25	4♍45	11°16	6°20	0♏40	13°24	3°16	27° 5	23°47	24°20	14°34	12°57	9° 0	n.a.	F 15
S 16	1 24 46	19°44'00	18°24	12°18	7°35	1°24	13°37	3°23	27° 7	23°46	24°19	14°R35	12°54	9° 7	n.a.	S 16
S 17	1 28 43	20°44'37	1♎53	13°16	8°51	2° 8	13°50	3°30	27° 9	23°44	24°18	14°33	12°51	9°14	n.a.	S 17
M18	1 32 39	21°45'16	15°10	14°10	10° 6	2°52	14° 3	3°37	27°11	23°43	24°16	14°30	12°48	9°20	n.a.	M18
T 19	1 36 36	22°45'56	28°14	15° 1	11°22	3°36	14°17	3°44	27°13	23°41	24°15	14°25	12°45	9°27	n.a.	T 19
W20	1 40 32	23°46'38	11♏ 3	15°46	12°37	4°20	14°30	3°51	27°15	23°40	24°14	14°18	12°41	9°34	n.a.	W20
T 21	1 44 29	24°47'22	23°38	16°26	13°53	5° 4	14°43	3°58	27°17	23°39	24°13	14°11	12°38	9°40	n.a.	T 21
F 22	1 48 26	25°48'07	5♐58	17° 0	15° 8	5°48	14°56	4° 5	27°19	23°37	24°12	14° 3	12°35	9°47	n.a.	F 22
S 23	1 52 22	26°48'53	18° 6	17°27	16°24	6°32	15° 9	4°12	27°21	23°36	24°11	13°56	12°32	9°54	n.a.	S 23
S 24	1 56 19	27°49'40	0♑ 5	17°47	17°39	7°16	15°22	4°19	27°23	23°35	24°10	13°50	12°29	10° 1	n.a.	S 24
M25	2 0 15	28°50'29	11°57	17°58	18°55	8° 1	15°36	4°26	27°25	23°33	24° 9	13°46	12°26	10° 7	n.a.	M25
T 26	2 4 12	29°51'18	23°47	18°R 0	20°11	8°45	15°49	4°33	27°27	23°32	24° 7	13°45	12°22	10°14	n.a.	T 26
W27	2 8 8	0♏52'09	5♒41	17°53	21°26	9°29	16° 2	4°40	27°30	23°31	24° 6	13°D44	12°19	10°21	n.a.	W27
T 28	2 12 5	1°53'01	17°43	17°35	22°42	10°14	16°15	4°47	27°32	23°29	24° 5	13°46	12°16	10°27	n.a.	T 28
F 29	2 16 1	2°53'53	29°59	17° 6	23°57	10°58	16°28	4°54	27°34	23°28	24° 4	13°47	12°13	10°34	n.a.	F 29
S 30	2 19 58	3°54'47	12♓33	16°26	25°13	11°43	16°41	5° 1	27°37	23°27	24° 3	13°R48	12°10	10°41	n.a.	S 30
S 31	2 23 55	4♏55'41	25♓29	15♏35	26♎28	12♏27	16♎54	5♏ 8	27♐39	23♓26	24♈ 2	13♍47	12♍ 6	10♉48	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	1s52	12s20	2n 1	10s52	1s47	5n52	1n30	8s 5	0n 3	3s 6	1n 7	10s16	2n 4	24s 0	0s20	4s 3	1s51	4s20	15s 0	6n 2	6n29	18s47		n.a.
S 2	2 16	9 0	0 55	11 29	1 52	5 22	1 30	8 21	0 2	3 11	1 7	10 18	2 4	24 0	0 20	4 3	1 51	4 20	15 1	6 2	6 30	18 47		n.a.
S 3	2 40	5 10	0s15	12 5	1 58	4 52	1 30	8 38	0 1	3 17	1 7	10 21	2 3	24 0	0 20	4 4	1 51	4 21	15 1	6 2	6 31	18 47		n.a.
M 4	3 4	1 0	1 27	12 40	2 3	4 22	1 29	8 55	0 1	3 22	1 7	10 23	2 3	24 0	0 20	4 4	1 51	4 21	15 1	6 2	6 33	18 47		n.a.
T 5	3 28	3n18	2 35	13 14	2 8	3 52	1 29	9 12	0 0	3 27	1 7	10 25	2 3	24 0	0 20	4 5	1 51	4 22	15 1	6 3	6 34	18 47		n.a.
W 6	3 52	7 32	3 35	13 48	2 13	3 21	1 29	9 29	0s 0	3 33	1 7	10 28	2 3	24 0	0 20	4 6	1 51	4 22	15 1	6 4	6 35	18 47		n.a.
T 7	4 16	11 25	4 24	14 20	2 18	2 50	1 28	9 45	0 1	3 38	1 6	10 30	2 3	24 0	0 20	4 6	1 51	4 23	15 1	6 5	6 36	18 47		n.a.
F 8	4 40	14 41	4 57	14 52	2 22	2 20	1 28	10 2	0 2	3 43	1 6	10 33	2 3	24 0	0 20	4 7	1 51	4 23	15 1	6 7	6 37	18 47		n.a.
S 9	5 4	17 6	5 12	15 22	2 26	1 49	1 27	10 18	0 2	3 48	1 6	10 35	2 3	24 0	0 20	4 8	1 51	4 23	15 1	6 8	6 39	18 47		n.a.
S 10	5 27	18 27	5 8	15 51	2 30	1 18	1 26	10 35	0 3	3 54	1 6	10 38	2 3	24 0	0 20	4 8	1 51	4 24	15 1	6 9	6 40	18 47		n.a.
M11	5 51	18 40	4 46	16 19	2 33	0 47	1 26	10 51	0 4	3 59	1 6	10 40	2 3	24 0	0 20	4 9	1 51	4 24	15 1	6 10	6 41	18 47		n.a.
T 12	6 15	17 42	4 6	16 45	2 36	0 16	1 25	11 7	0 4	4 4	1 6	10 42	2 3	24 0	0 20	4 9	1 51	4 25	15 1	6 10	6 42	18 47		n.a.
W13	6 38	15 39	3 11	17 10	2 38	0s15	1 24	11 24	0 5	4 9	1 6	10 45	2 2	24 0	0 20	4 10	1 51	4 25	15 1	6 9	6 44	18 47		n.a.
T 14	7 2	12 42	2 6	17 34	2 40	0 46	1 23	11 40	0 6	4 14	1 6	10 47	2 2	24 1	0 20	4 11	1 51	4 26	15 1	6 9	6 45	18 47		n.a.
F 15	7 25	9 3	0 53	17 56	2 41	1 17	1 22	11 56	0 6	4 20	1 6	10 50	2 2	24 1	0 20	4 11	1 51	4 26	15 1	6 8	6 46	18 47		n.a.
S 16	7 48	4 57	0n21	18 16	2 42	1 48	1 21	12 12	0 7	4 25	1 6	10 52	2 2	24 1	0 20	4 12	1 51	4 26	15 1	6 8	6 47	18 47		n.a.
S 17	8 11	0 40	1 33	18 34	2 42	2 19	1 20	12 28	0 8	4 30	1 6	10 55	2 2	24 1	0 20	4 12	1 51	4 27	15 1	6 9	6 49	18 47		n.a.
M18	8 34	3s36	2 39	18 50	2 41	2 50	1 19	12 44	0 8	4 35	1 6	10 57	2 2	24 1	0 20	4 13	1 51	4 27	15 1	6 10	6 50	18 47		n.a.
T 19	8 57	7 37	3 35	19 3	2 39	3 21	1 18	13 0	0 9	4 40	1 6	10 59	2 2	24 1	0 20	4 13	1 51	4 28	15 1	6 12	6 51	18 47		n.a.
W20	9 20	11 13	4 19	19 14	2 37	3 52	1 17	13 15	0 10	4 46	1 6	11 2	2 2	24 1	0 20	4 14	1 51	4 28	15 1	6 15	6 52	18 47		n.a.
T 21	9 42	14 13	4 50	19 23	2 33	4 23	1 15	13 31	0 10	4 51	1 6	11 4	2 2	24 1	0 20	4 15	1 51	4 28	15 1	6 18	6 53	18 46		n.a.
F 22	10 5	16 31	5 6	19 28	2 28	4 54	1 14	13 46	0 11	4 56	1 6	11 7	2 2	24 1	0 20	4 15	1 51	4 29	15 1	6 21	6 55	18 46		n.a.
S 23	10 27	18 3	5 8	19 30	2 22	5 24	1 12	14 2	0 11	5 1	1 6	11 9	2 2	24 1	0 20	4 16	1 51	4 29	15 1	6 23	6 56	18 46		n.a.
S 24	10 49	18 46	4 57	19 29	2 15	5 55	1 11	14 17	0 12	5 6	1 6	11 12	2 2	24 1	0 20	4 16	1 51	4 29	15 1	6 26	6 57	18 46		n.a.
M25	11 11	18 38	4 33	19 24	2 6	6 25	1 9	14 32	0 13	5 11	1 6	11 14	2 2	24 1	0 20	4 17	1 51	4 30	15 1	6 27	6 58	18 46		n.a.
T 26	11 33	17 42	3 57	19 15	1 56	6 55	1 8	14 47	0 13	5 16	1 6	11 16	2 2	24 1	0 20	4 17	1 51	4 30	15 1	6 28	7 0	18 46		n.a.
W27	11 54	15 59	3 11	19 1	1 45	7 26	1 6	15 2	0 14	5 21	1 6	11 19	2 2	24 1	0 20	4 18	1 51	4 30	15 1	6 28	7 1	18 46		n.a.
T 28	12 16	13 32	2 16	18 43	1 31	7 56	1 5	15 17	0 15	5 27	1 6	11 21	2 1	24 1	0 20	4 18	1 50	4 31	15 1	6 27	7 2	18 46		n.a.
F 29	12 37	10 27	1 14	18 21	1 16	8 25	1 3	15 32	0 15	5 32	1 6	11 24	2 1	24 1	0 20	4 18	1 50	4 31	15 1	6 27	7 3	18 46		n.a.
S 30	12 58	6 49	0 7	17 54	1 0	8 55	1 1	15 46	0 16	5 37	1 6	11 26	2 1	24 1	0 20	4 19	1 50	4 31	15 1	6 27	7 4	18 46		n.a.
S 31	13s18	2s46	1s 3	17s22	0s42	9s24	0n59	16s 1	0s17	5s42	1n 6	11s28	2n 1	24s 1	0s20	4s19	1s50	4s32	15s 0	6n27	7n 6	18s46		n.a.

Julian Day Number = 1682614.5, Delta T = 03h14m40s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'57, Lahiri = - 5°24'56 Julian Calendar 1 Oct. 107 BCE == Greg. Calendar 28 Sept. 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

NOVEMBER 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 27 51	5♏56'37	8♈49	14°R35	27♎44	13♏12	17♎ 7	5♏15	27♐42	23°R25	24°R 1	13°R44	12♍ 3	10♉54	n.a.	M 1
T 2	2 31 48	6°57'34	22°35	13♏26	29° 0	13°57	17°20	5°22	27°44	23♓24	24♈ 0	13♍39	12° 0	11° 1	n.a.	T 2
W 3	2 35 44	7°58'31	6♉43	12°10	0♏15	14°41	17°32	5°29	27°47	23°22	23°58	13°31	11°57	11° 8	n.a.	W 3
T 4	2 39 41	8°59'30	21° 9	10°49	1°31	15°26	17°45	5°36	27°49	23°21	23°57	13°23	11°54	11°14	n.a.	T 4
F 5	2 43 37	10° 0'30	5♊47	9°26	2°46	16°11	17°58	5°43	27°52	23°20	23°56	13°13	11°51	11°21	n.a.	F 5
S 6	2 47 34	11° 1'31	20°28	8° 4	4° 2	16°56	18°11	5°50	27°55	23°19	23°55	13° 4	11°47	11°28	n.a.	S 6
S 7	2 51 30	12° 2'34	5♋ 7	6°46	5°17	17°41	18°24	5°57	27°57	23°18	23°54	12°57	11°44	11°35	n.a.	S 7
M 8	2 55 27	13° 3'37	19°35	5°33	6°33	18°26	18°36	6° 4	28° 0	23°17	23°53	12°53	11°41	11°41	n.a.	M 8
T 9	2 59 24	14° 4'42	3♌50	4°29	7°49	19°11	18°49	6°11	28° 3	23°16	23°52	12°50	11°38	11°48	n.a.	T 9
W10	3 3 20	15° 5'48	17°50	3°35	9° 4	19°56	19° 2	6°18	28° 6	23°15	23°51	12°D50	11°35	11°55	n.a.	W10
T 11	3 7 17	16° 6'55	1♍35	2°51	10°20	20°41	19°14	6°25	28° 9	23°15	23°50	12°50	11°32	12° 1	n.a.	T 11
F 12	3 11 13	17° 8'03	15° 5	2°19	11°35	21°26	19°27	6°32	28°11	23°14	23°49	12°R51	11°28	12° 8	n.a.	F 12
S 13	3 15 10	18° 9'12	28°22	1°58	12°51	22°11	19°39	6°39	28°14	23°13	23°48	12°49	11°25	12°15	n.a.	S 13
S 14	3 19 6	19°10'22	11♎27	1°D47	14° 7	22°56	19°52	6°46	28°17	23°12	23°47	12°46	11°22	12°21	n.a.	S 14
M15	3 23 3	20°11'33	24°21	1°48	15°22	23°42	20° 4	6°53	28°20	23°11	23°46	12°39	11°19	12°28	n.a.	M15
T 16	3 26 59	21°12'44	7♏ 4	1°58	16°38	24°27	20°16	7° 0	28°23	23°11	23°45	12°30	11°16	12°35	n.a.	T 16
W17	3 30 56	22°13'57	19°37	2°16	17°53	25°13	20°29	7° 7	28°26	23°10	23°44	12°18	11°12	12°42	n.a.	W17
T 18	3 34 53	23°15'10	2♐ 0	2°43	19° 9	25°58	20°41	7°14	28°29	23° 9	23°43	12° 5	11° 9	12°48	n.a.	T 18
F 19	3 38 49	24°16'23	14°12	3°18	20°25	26°44	20°53	7°21	28°32	23° 9	23°42	11°51	11° 6	12°55	n.a.	F 19
S 20	3 42 46	25°17'37	26°15	3°59	21°40	27°29	21° 5	7°28	28°35	23° 8	23°41	11°38	11° 3	13° 2	n.a.	S 20
S 21	3 46 42	26°18'51	8♑11	4°45	22°56	28°15	21°17	7°34	28°38	23° 7	23°40	11°27	11° 0	13° 8	n.a.	S 21
M22	3 50 39	27°20'06	20° 1	5°37	24°11	29° 0	21°29	7°41	28°42	23° 7	23°39	11°18	10°57	13°15	n.a.	M22
T 23	3 54 35	28°21'20	1♒49	6°33	25°27	29°46	21°41	7°48	28°45	23° 6	23°38	11°12	10°53	13°22	n.a.	T 23
W24	3 58 32	29°22'35	13°40	7°33	26°43	0♐32	21°53	7°55	28°48	23° 6	23°37	11° 9	10°50	13°28	n.a.	W24
T 25	4 2 29	0♐23'50	25°39	8°37	27°58	1°17	22° 5	8° 1	28°51	23° 6	23°36	11° 8	10°47	13°35	n.a.	T 25
F 26	4 6 25	1°25'04	7♓50	9°43	29°14	2° 3	22°17	8° 8	28°54	23° 5	23°36	11° 8	10°44	13°42	n.a.	F 26
S 27	4 10 22	2°26'19	20°20	10°53	0♐29	2°49	22°28	8°15	28°58	23° 5	23°35	11° 8	10°41	13°49	n.a.	S 27
S 28	4 14 18	3°27'33	3♈13	12° 5	1°45	3°35	22°40	8°21	29° 1	23° 4	23°34	11° 6	10°38	13°55	n.a.	S 28
M29	4 18 15	4°28'48	16°33	13°19	3° 0	4°21	22°51	8°28	29° 4	23° 4	23°33	11° 3	10°34	14° 2	n.a.	M29
T 30	4 22 11	5♐30'02	0♉23	14♏34	4♐16	5♐ 7	23♎ 3	8♏35	29♐ 7	23♓ 4	23♈32	10♍56	10♍31	14♉ 9	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	13s39	1n32	2s10	16s45	0s23	9s53	0n57	16s15	0s17	5s47	1n 6	11s31	2n 1	24s 1	0s20	4s20	1s50	4s32	15s 0	6n28	7n 7	18s45		n.a.
T 2	13 59	5 54	3 13	16 5	0 3	10 22	0 56	16 29	0 18	5 52	1 6	11 33	2 1	24 1	0 20	4 20	1 50	4 32	15 0	6 30	7 8	18 45		n.a.
W 3	14 19	10 3	4 5	15 23	0n18	10 51	0 54	16 43	0 18	5 56	1 6	11 36	2 1	24 1	0 20	4 21	1 50	4 33	15 0	6 33	7 9	18 45		n.a.
T 4	14 39	13 42	4 42	14 38	0 38	11 19	0 52	16 57	0 19	6 1	1 6	11 38	2 1	24 1	0 20	4 21	1 50	4 33	15 0	6 36	7 11	18 45		n.a.
F 5	14 59	16 33	5 2	13 52	0 58	11 47	0 50	17 11	0 20	6 6	1 6	11 40	2 1	24 1	0 20	4 21	1 50	4 33	15 0	6 40	7 12	18 45		n.a.
S 6	15 18	18 20	5 2	13 8	1 18	12 15	0 48	17 24	0 20	6 11	1 6	11 43	2 1	24 1	0 20	4 22	1 50	4 34	15 0	6 43	7 13	18 45		n.a.
S 7	15 37	18 54	4 42	12 25	1 35	12 43	0 46	17 38	0 21	6 16	1 6	11 45	2 1	24 1	0 20	4 22	1 50	4 34	15 0	6 46	7 14	18 45		n.a.
M 8	15 56	18 13	4 5	11 46	1 51	13 10	0 44	17 51	0 22	6 21	1 6	11 47	2 1	24 1	0 20	4 22	1 50	4 34	15 0	6 48	7 15	18 45		n.a.
T 9	16 14	16 23	3 12	11 11	2 5	13 37	0 41	18 4	0 22	6 26	1 6	11 50	2 1	24 1	0 20	4 23	1 50	4 34	14 59	6 49	7 17	18 44		n.a.
W10	16 33	13 36	2 9	10 42	2 17	14 3	0 39	18 17	0 23	6 31	1 6	11 52	2 1	24 2	0 20	4 23	1 50	4 35	14 59	6 49	7 18	18 44		n.a.
T 11	16 51	10 6	1 0	10 18	2 27	14 30	0 37	18 30	0 23	6 35	1 6	11 54	2 1	24 2	0 20	4 23	1 50	4 35	14 59	6 49	7 19	18 44		n.a.
F 12	17 8	6 8	0n12	9 59	2 35	14 55	0 35	18 42	0 24	6 40	1 6	11 57	2 1	24 2	0 20	4 24	1 50	4 35	14 59	6 49	7 20	18 44		n.a.
S 13	17 26	1 54	1 22	9 47	2 40	15 21	0 33	18 55	0 25	6 45	1 7	11 59	2 1	24 2	0 20	4 24	1 50	4 35	14 59	6 49	7 22	18 44		n.a.
S 14	17 43	2s20	2 26	9 40	2 44	15 46	0 30	19 7	0 25	6 49	1 7	12 1	2 1	24 2	0 20	4 24	1 50	4 35	14 59	6 50	7 23	18 44		n.a.
M15	17 59	6 25	3 22	9 38	2 46	16 11	0 28	19 19	0 26	6 54	1 7	12 4	2 1	24 2	0 20	4 24	1 50	4 36	14 59	6 53	7 24	18 44		n.a.
T 16	18 16	10 9	4 6	9 41	2 46	16 35	0 26	19 31	0 26	6 59	1 7	12 6	2 1	24 2	0 20	4 25	1 50	4 36	14 58	6 57	7 25	18 43		n.a.
W17	18 32	13 22	4 38	9 49	2 46	16 59	0 24	19 43	0 27	7 3	1 7	12 8	2 1	24 2	0 20	4 25	1 50	4 36	14 58	7 1	7 26	18 43		n.a.
T 18	18 48	15 57	4 56	10 0	2 43	17 22	0 21	19 55	0 28	7 8	1 7	12 10	2 1	24 2	0 20	4 25	1 50	4 36	14 58	7 6	7 28	18 43		n.a.
F 19	19 3	17 47	5 1	10 14	2 40	17 45	0 19	20 6	0 28	7 13	1 7	12 13	2 1	24 2	0 20	4 25	1 49	4 36	14 58	7 12	7 29	18 43		n.a.
S 20	19 18	18 48	4 51	10 32	2 37	18 7	0 17	20 17	0 29	7 17	1 7	12 15	2 1	24 2	0 20	4 26	1 49	4 37	14 58	7 17	7 30	18 43		n.a.
S 21	19 33	18 58	4 29	10 52	2 32	18 29	0 14	20 28	0 30	7 22	1 7	12 17	2 1	24 2	0 20	4 26	1 49	4 37	14 57	7 21	7 31	18 43		n.a.
M22	19 47	18 18	3 56	11 14	2 27	18 50	0 12	20 39	0 30	7 26	1 7	12 19	2 1	24 2	0 20	4 26	1 49	4 37	14 57	7 24	7 33	18 42		n.a.
T 23	20 1	16 51	3 12	11 38	2 21	19 11	0 10	20 49	0 31	7 31	1 7	12 21	2 1	24 2	0 20	4 26	1 49	4 37	14 57	7 27	7 34	18 42		n.a.
W24	20 14	14 40	2 20	12 4	2 15	19 31	0 7	21 0	0 31	7 35	1 7	12 23	2 1	24 2	0 20	4 26	1 49	4 37	14 57	7 28	7 35	18 42		n.a.
T 25	20 28	11 50	1 21	12 31	2 8	19 51	0 5	21 10	0 32	7 39	1 7	12 26	2 1	24 2	0 20	4 26	1 49	4 37	14 57	7 28	7 36	18 42		n.a.
F 26	20 40	8 27	0 18	12 59	2 1	20 10	0 2	21 20	0 32	7 44	1 7	12 28	2 1	24 2	0 20	4 26	1 49	4 37	14 56	7 28	7 37	18 42		n.a.
S 27	20 53	4 37	0s48	13 27	1 54	20 29	0 0	21 30	0 33	7 48	1 7	12 30	2 1	24 2	0 20	4 27	1 49	4 37	14 56	7 28	7 39	18 41		n.a.
S 28	21 5	0 27	1 54	13 57	1 46	20 47	0s 2	21 39	0 34	7 52	1 7	12 32	2 1	24 2	0 20	4 27	1 49	4 38	14 56	7 29	7 40	18 41		n.a.
M29	21 16	3n53	2 56	14 26	1 39	21 4	0 5	21 49	0 34	7 57	1 7	12 34	2 1	24 2	0 20	4 27	1 49	4 38	14 56	7 30	7 41	18 41		n.a.
T 30	21s28	8n10	3s49	14s56	1n31	21s21	0s 7	21s58	0s35	8s 1	1n 7	12s36	2n 2	24s 2	0s20	4s27	1s49	4s38	14s55	7n33	7n42	18s41		n.a.

Julian Day Number = 1682645.5, Delta T = 03h14m39s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'53, Lahiri = - 5°24'52 Julian Calendar 1 Nov. 107 BCE == Greg. Calendar 29 Oct. 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 107 BCE
geocentric

DECEMBER 107 BCE (-106) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 26 8	6♐31'16	14♉41	15♏52	5♐31	5♐53	23♎14	8♏41	29♐11	23°R 4	23°R31	10°R46	10♍28	14♑15	n.a.	W 1
T 2	4 30 4	7°32'30	29°24	17°11	6°47	6°39	23°25	8°48	29°14	23♓ 3	23♈31	10♍35	10°25	14°22	n.a.	T 2
F 3	4 34 1	8°33'44	14♊24	18°31	8° 2	7°25	23°37	8°54	29°18	23° 3	23°30	10°23	10°22	14°29	n.a.	F 3
S 4	4 37 58	9°34'58	29°32	19°52	9°18	8°11	23°48	9° 0	29°21	23° 3	23°29	10°12	10°18	14°35	n.a.	S 4
S 5	4 41 54	10°36'12	14♋36	21°15	10°33	8°57	23°59	9° 7	29°24	23° 3	23°28	10° 2	10°15	14°42	n.a.	S 5
M 6	4 45 51	11°37'26	29°27	22°38	11°49	9°43	24°10	9°13	29°28	23° 3	23°28	9°55	10°12	14°49	n.a.	M 6
T 7	4 49 47	12°38'40	14♌ 0	24° 3	13° 4	10°29	24°21	9°19	29°31	23°D 3	23°27	9°51	10° 9	14°56	n.a.	T 7
W 8	4 53 44	13°39'54	28°10	25°28	14°20	11°16	24°32	9°26	29°35	23° 3	23°26	9°49	10° 6	15° 2	n.a.	W 8
T 9	4 57 40	14°41'08	11♍58	26°54	15°35	12° 2	24°42	9°32	29°38	23° 3	23°26	9°49	10° 3	15° 9	n.a.	T 9
F 10	5 1 37	15°42'22	25°23	28°21	16°51	12°48	24°53	9°38	29°41	23° 3	23°25	9°49	9°59	15°16	n.a.	F 10
S 11	5 5 33	16°43'36	8♎30	29°48	18° 6	13°35	25° 4	9°44	29°45	23° 3	23°24	9°47	9°56	15°22	n.a.	S 11
S 12	5 9 30	17°44'50	21°20	1♐16	19°21	14°21	25°14	9°50	29°48	23° 3	23°24	9°44	9°53	15°29	n.a.	S 12
M13	5 13 27	18°46'04	3♏58	2°44	20°37	15° 7	25°24	9°56	29°52	23° 4	23°23	9°37	9°50	15°36	n.a.	M13
T 14	5 17 23	19°47'17	16°24	4°13	21°52	15°54	25°35	10° 2	29°55	23° 4	23°23	9°27	9°47	15°42	n.a.	T 14
W15	5 21 20	20°48'30	28°41	5°43	23° 8	16°40	25°45	10° 8	29°59	23° 4	23°22	9°14	9°44	15°49	n.a.	W15
T 16	5 25 16	21°49'43	10♐51	7°13	24°23	17°27	25°55	10°14	0♑ 2	23° 4	23°21	9° 0	9°40	15°56	n.a.	T 16
F 17	5 29 13	22°50'55	22°53	8°44	25°39	18°14	26° 5	10°20	0° 6	23° 5	23°21	8°46	9°37	16° 3	n.a.	F 17
S 18	5 33 9	23°52'07	4♑50	10°15	26°54	19° 0	26°15	10°26	0° 9	23° 5	23°20	8°32	9°34	16° 9	n.a.	S 18
S 19	5 37 6	24°53'17	16°42	11°47	28° 9	19°47	26°24	10°31	0°13	23° 5	23°20	8°20	9°31	16°16	n.a.	S 19
M20	5 41 3	25°54'28	28°31	13°20	29°25	20°33	26°34	10°37	0°17	23° 6	23°20	8°10	9°28	16°23	n.a.	M20
T 21	5 44 59	26°55'37	10♒19	14°53	0♑40	21°20	26°44	10°43	0°20	23° 6	23°19	8° 4	9°24	16°29	n.a.	T 21
W22	5 48 56	27°56'45	22°10	16°26	1°55	22° 7	26°53	10°48	0°24	23° 7	23°19	8° 0	9°21	16°36	n.a.	W22
T 23	5 52 52	28°57'52	4♓ 8	18° 0	3°11	22°53	27° 2	10°54	0°27	23° 7	23°18	7°D59	9°18	16°43	n.a.	T 23
F 24	5 56 49	29°58'58	16°16	19°35	4°26	23°40	27°12	10°59	0°31	23° 8	23°18	7°59	9°15	16°49	n.a.	F 24
S 25	6 0 45	1♑ 0'03	28°42	21°10	5°41	24°27	27°21	11° 4	0°34	23° 9	23°18	7°R59	9°12	16°56	n.a.	S 25
S 26	6 4 42	2° 1'06	11♈28	22°46	6°57	25°14	27°30	11°10	0°38	23° 9	23°17	7°59	9° 9	17° 3	n.a.	S 26
M27	6 8 38	3° 2'09	24°41	24°22	8°12	26° 1	27°38	11°15	0°41	23°10	23°17	7°57	9° 5	17°10	n.a.	M27
T 28	6 12 35	4° 3'10	8♉24	25°59	9°27	26°47	27°47	11°20	0°45	23°11	23°17	7°52	9° 2	17°16	n.a.	T 28
W29	6 16 32	5° 4'10	22°37	27°37	10°42	27°34	27°56	11°25	0°48	23°11	23°16	7°45	8°59	17°23	n.a.	W29
T 30	6 20 28	6° 5'09	7♊18	29°15	11°58	28°21	28° 4	11°30	0°52	23°12	23°16	7°36	8°56	17°30	n.a.	T 30
F 31	6 24 25	7♑ 6'06	22♊22	0♑54	13♑13	29♐ 8	28♎13	11♏35	0♑56	23♓13	23♈16	7♍27	8♍53	17♑36	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	21s38	12n 7	4s30	15s26	1n24	21s37	0s 9	22s 6	0s35	8s 5	1n 8	12s38	2n 2	24s 2	0s20	4s27	1s49	4s38	14s55	7n36	7n44	18s41			n.a.
T 2	21 49	15 27	4 54	15 56	1 16	21 53	0 12	22 15	0 36	8 9	1 8	12 40	2 2	24 2	0 20	4 27	1 49	4 38	14 55	7 41	7 45	18 40			n.a.
F 3	21 59	17 50	4 59	16 27	1 8	22 7	0 14	22 23	0 37	8 13	1 8	12 42	2 2	24 2	0 20	4 27	1 49	4 38	14 55	7 45	7 46	18 40			n.a.
S 4	22 8	18 59	4 43	16 56	1 0	22 22	0 17	22 32	0 37	8 17	1 8	12 44	2 2	24 2	0 20	4 27	1 49	4 38	14 54	7 50	7 47	18 40			n.a.
S 5	22 17	18 47	4 8	17 26	0 52	22 35	0 19	22 39	0 38	8 21	1 8	12 46	2 2	24 2	0 20	4 27	1 49	4 38	14 54	7 53	7 48	18 40			n.a.
M 6	22 26	17 18	3 16	17 55	0 44	22 48	0 21	22 47	0 38	8 25	1 8	12 48	2 2	24 2	0 20	4 27	1 49	4 38	14 54	7 56	7 50	18 40			n.a.
T 7	22 34	14 42	2 12	18 24	0 37	23 0	0 23	22 54	0 39	8 29	1 8	12 50	2 2	24 2	0 20	4 27	1 48	4 38	14 54	7 58	7 51	18 39			n.a.
W 8	22 42	11 17	1 1	18 52	0 29	23 12	0 26	23 2	0 39	8 33	1 8	12 52	2 2	24 2	0 20	4 27	1 48	4 38	14 53	7 58	7 52	18 39			n.a.
T 9	22 49	7 20	0n11	19 20	0 21	23 23	0 28	23 9	0 40	8 37	1 8	12 54	2 2	24 2	0 20	4 27	1 48	4 38	14 53	7 58	7 53	18 39			n.a.
F 10	22 56	3 6	1 21	19 47	0 14	23 33	0 30	23 15	0 40	8 41	1 8	12 56	2 2	24 2	0 20	4 27	1 48	4 38	14 53	7 58	7 54	18 39			n.a.
S 11	23 2	1s11	2 25	20 14	0 6	23 42	0 32	23 22	0 41	8 45	1 8	12 58	2 2	24 2	0 20	4 26	1 48	4 38	14 53	7 59	7 56	18 38			n.a.
S 12	23 8	5 19	3 21	20 39	0s 1	23 51	0 35	23 28	0 41	8 48	1 9	13 0	2 2	24 2	0 20	4 26	1 48	4 38	14 52	8 0	7 57	18 38			n.a.
M13	23 13	9 8	4 5	21 4	0 8	23 59	0 37	23 34	0 42	8 52	1 9	13 1	2 2	24 2	0 20	4 26	1 48	4 38	14 52	8 3	7 58	18 38			n.a.
T 14	23 18	12 31	4 37	21 29	0 15	24 6	0 39	23 39	0 43	8 56	1 9	13 3	2 2	24 2	0 20	4 26	1 48	4 38	14 52	8 7	7 59	18 38			n.a.
W15	23 23	15 17	4 55	21 52	0 22	24 12	0 41	23 45	0 43	8 59	1 9	13 5	2 3	24 2	0 20	4 26	1 48	4 38	14 51	8 12	8 0	18 37			n.a.
T 16	23 27	17 22	5 0	22 14	0 29	24 18	0 43	23 50	0 44	9 3	1 9	13 7	2 3	24 2	0 20	4 26	1 48	4 38	14 51	8 17	8 2	18 37			n.a.
F 17	23 31	18 40	4 51	22 35	0 36	24 23	0 45	23 55	0 44	9 7	1 9	13 8	2 3	24 2	0 20	4 26	1 48	4 37	14 51	8 22	8 3	18 37			n.a.
S 18	23 34	19 7	4 30	22 56	0 42	24 27	0 47	23 59	0 45	9 10	1 9	13 10	2 3	24 2	0 20	4 25	1 48	4 37	14 51	8 28	8 4	18 37			n.a.
S 19	23 36	18 44	3 57	23 15	0 48	24 31	0 49	24 3	0 45	9 14	1 9	13 12	2 3	24 2	0 20	4 25	1 48	4 37	14 50	8 32	8 5	18 36			n.a.
M20	23 38	17 32	3 13	23 33	0 55	24 33	0 51	24 7	0 46	9 17	1 9	13 14	2 3	24 2	0 20	4 25	1 48	4 37	14 50	8 36	8 7	18 36			n.a.
T 21	23 40	15 35	2 21	23 50	1 0	24 35	0 53	24 11	0 46	9 20	1 9	13 15	2 3	24 2	0 20	4 25	1 48	4 37	14 50	8 38	8 8	18 36			n.a.
W22	23 41	12 58	1 23	24 6	1 6	24 36	0 55	24 15	0 47	9 24	1 10	13 17	2 3	24 2	0 20	4 24	1 48	4 37	14 49	8 40	8 9	18 36			n.a.
T 23	23 42	9 47	0 21	24 21	1 12	24 37	0 57	24 18	0 47	9 27	1 10	13 18	2 3	24 2	0 20	4 24	1 48	4 37	14 49	8 40	8 10	18 35			n.a.
F 24	23 42	6 9	0s44	24 34	1 17	24 36	0 59	24 21	0 48	9 30	1 10	13 20	2 3	24 2	0 20	4 24	1 48	4 37	14 49	8 40	8 11	18 35			n.a.
S 25	23 42	2 11	1 48	24 46	1 22	24 35	1 0	24 23	0 48	9 33	1 10	13 22	2 4	24 2	0 20	4 24	1 47	4 36	14 48	8 40	8 13	18 35			n.a.
S 26	23 41	2n 0	2 49	24 57	1 27	24 33	1 2	24 26	0 49	9 36	1 10	13 23	2 4	24 2	0 20	4 23	1 47	4 36	14 48	8 40	8 14	18 34			n.a.
M27	23 40	6 13	3 42	25 6	1 31	24 30	1 4	24 28	0 49	9 40	1 10	13 25	2 4	24 2	0 20	4 23	1 47	4 36	14 48	8 41	8 15	18 34			n.a.
T 28	23 39	10 16	4 25	25 14	1 36	24 27	1 5	24 30	0 50	9 43	1 10	13 26	2 4	24 2	0 20	4 23	1 47	4 36	14 48	8 43	8 16	18 34			n.a.
W29	23 36	13 54	4 54	25 21	1 40	24 23	1 7	24 31	0 50	9 46	1 10	13 28	2 4	24 2	0 20	4 22	1 47	4 36	14 47	8 45	8 17	18 33			n.a.
T 30	23 34	16 46	5 4	25 26	1 43	24 18	1 8	24 32	0 51	9 48	1 11	13 29	2 4	24 2	0 20	4 22	1 47	4 35	14 47	8 49	8 19	18 33			n.a.
F 31	23s31	18n35	4s54	25s29	1s47	24s12	1s10	24s33	0s51	9s51	1n11	13s31	2n 4	24s 2	0s20	4s22	1s47	4s35	14s47	8n52	8n20	18s33			n.a.

Julian Day Number = 1682675.5, Delta T = 03h14m38s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'48, Lahiri = - 5°24'48 Julian Calendar 1 Dec. 107 BCE == Greg. Calendar 28 Nov. 107 BCE

The year -106 astronomical counting style corresponds to year 107 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

JANUARY 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 28 21	8♑ 7'02	7♋39	2♑33	14♑28	29♐55	28♎21	11♏40	0♑59	23♓14	23°R16	7°R17	8♍49	17♑43	n.a.	S 1
S 2	6 32 18	9° 7'57	22°58	4°14	15°43	0♑42	28°29	11°45	1° 3	23°15	23♈15	7♍10	8°46	17°50	n.a.	S 2
M 3	6 36 14	10° 8'51	8♌ 8	5°55	16°58	1°29	28°37	11°50	1° 6	23°15	23°15	7° 4	8°43	17°56	n.a.	M 3
T 4	6 40 11	11° 9'44	23° 0	7°36	18°14	2°16	28°45	11°54	1°10	23°16	23°15	7° 1	8°40	18° 3	n.a.	T 4
W 5	6 44 7	12°10'36	7♍27	9°19	19°29	3° 3	28°53	11°59	1°13	23°17	23°15	7°D 0	8°37	18°10	n.a.	W 5
T 6	6 48 4	13°11'27	21°28	11° 2	20°44	3°50	29° 0	12° 3	1°17	23°18	23°15	7° 1	8°34	18°16	n.a.	T 6
F 7	6 52 1	14°12'16	5♎ 2	12°46	21°59	4°37	29° 8	12° 8	1°20	23°19	23°15	7° 2	8°30	18°23	n.a.	F 7
S 8	6 55 57	15°13'05	18°11	14°31	23°14	5°24	29°15	12°12	1°24	23°20	23°15	7°R 2	8°27	18°30	n.a.	S 8
S 9	6 59 54	16°13'52	0♏59	16°16	24°29	6°11	29°22	12°17	1°27	23°22	23°15	7° 1	8°24	18°37	n.a.	S 9
M10	7 3 50	17°14'39	13°30	18° 2	25°44	6°58	29°29	12°21	1°30	23°23	23°D15	6°57	8°21	18°43	n.a.	M10
T 11	7 7 47	18°15'24	25°47	19°49	26°59	7°45	29°36	12°25	1°34	23°24	23°15	6°52	8°18	18°50	n.a.	T 11
W12	7 11 43	19°16'08	7♐54	21°37	28°14	8°32	29°43	12°29	1°37	23°25	23°15	6°44	8°15	18°57	n.a.	W12
T 13	7 15 40	20°16'51	19°54	23°25	29°29	9°19	29°49	12°33	1°41	23°26	23°15	6°35	8°11	19° 3	n.a.	T 13
F 14	7 19 36	21°17'32	1♑48	25°14	0♒45	10° 6	29°56	12°37	1°44	23°27	23°15	6°26	8° 8	19°10	n.a.	F 14
S 15	7 23 33	22°18'12	13°40	27° 4	2° 0	10°53	0♏ 2	12°41	1°48	23°29	23°15	6°17	8° 5	19°17	n.a.	S 15
S 16	7 27 30	23°18'50	25°29	28°54	3°15	11°41	0° 8	12°45	1°51	23°30	23°15	6° 9	8° 2	19°23	n.a.	S 16
M17	7 31 26	24°19'27	7♒19	0♒45	4°29	12°28	0°14	12°48	1°54	23°31	23°15	6° 3	7°59	19°30	n.a.	M17
T 18	7 35 23	25°20'02	19°11	2°35	5°44	13°15	0°20	12°52	1°58	23°33	23°16	6° 0	7°55	19°37	n.a.	T 18
W19	7 39 19	26°20'35	1♓ 7	4°27	6°59	14° 2	0°25	12°55	2° 1	23°34	23°16	5°D58	7°52	19°43	n.a.	W19
T 20	7 43 16	27°21'06	13°10	6°18	8°14	14°49	0°31	12°59	2° 4	23°36	23°16	5°58	7°49	19°50	n.a.	T 20
F 21	7 47 12	28°21'35	25°24	8° 9	9°29	15°36	0°36	13° 2	2° 7	23°37	23°16	5°59	7°46	19°57	n.a.	F 21
S 22	7 51 9	29°22'03	7♈51	9°59	10°44	16°23	0°41	13° 5	2°11	23°38	23°16	6° 1	7°43	20° 4	n.a.	S 22
S 23	7 55 5	0♒22'28	20°36	11°49	11°59	17°11	0°46	13° 9	2°14	23°40	23°17	6° 3	7°40	20°10	n.a.	S 23
M24	7 59 2	1°22'52	3♉44	13°38	13°14	17°58	0°51	13°12	2°17	23°41	23°17	6°R 3	7°36	20°17	n.a.	M24
T 25	8 2 59	2°23'13	17°17	15°26	14°29	18°45	0°56	13°15	2°20	23°43	23°17	6° 2	7°33	20°24	n.a.	T 25
W26	8 6 55	3°23'32	1♊17	17°13	15°43	19°32	1° 0	13°18	2°24	23°45	23°18	5°59	7°30	20°30	n.a.	W26
T 27	8 10 52	4°23'49	15°44	18°57	16°58	20°19	1° 5	13°20	2°27	23°46	23°18	5°56	7°27	20°37	n.a.	T 27
F 28	8 14 48	5°24'04	0♋34	20°38	18°13	21° 7	1° 9	13°23	2°30	23°48	23°18	5°51	7°24	20°44	n.a.	F 28
S 29	8 18 45	6°24'17	15°40	22°17	19°28	21°54	1°13	13°26	2°33	23°49	23°19	5°47	7°21	20°50	n.a.	S 29
S 30	8 22 41	7°24'28	0♌54	23°52	20°42	22°41	1°17	13°28	2°36	23°51	23°19	5°43	7°17	20°57	n.a.	S 30
M31	8 26 38	8♒24'37	16♌ 6	25♒23	21♒57	23♑28	1♏20	13♏31	2♑39	23♓53	23♈20	5♍41	7♍14	21♑ 4	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s27	19n 6	4s23	25s31	1s50	24s 5	1s11	24s34	0s51	9s54	1n11	13s32	2n 4	24s 2	0s20	4s21	1s47	4s35	14s46	8n56	8n21	18s33		n.a.
S 2	23 23	18 14	3 33	25 31	1 53	23 58	1 13	24 34	0 52	9 57	1 11	13 33	2 4	24 2	0 20	4 21	1 47	4 35	14 46	8 59	8 22	18 32		n.a.
M 3	23 19	16 3	2 28	25 29	1 55	23 50	1 14	24 34	0 52	10 0	1 11	13 35	2 5	24 2	0 20	4 20	1 47	4 35	14 46	9 1	8 23	18 32		n.a.
T 4	23 14	12 50	1 14	25 26	1 57	23 41	1 15	24 34	0 53	10 2	1 11	13 36	2 5	24 2	0 20	4 20	1 47	4 34	14 45	9 2	8 25	18 32		n.a.
W 5	23 8	8 54	0n 2	25 21	1 59	23 32	1 16	24 33	0 53	10 5	1 11	13 37	2 5	24 2	0 20	4 19	1 47	4 34	14 45	9 2	8 26	18 31		n.a.
T 6	23 3	4 36	1 17	25 14	2 0	23 22	1 18	24 33	0 54	10 8	1 12	13 39	2 5	24 2	0 20	4 19	1 47	4 34	14 45	9 2	8 27	18 31		n.a.
F 7	22 56	0 12	2 25	25 6	2 1	23 11	1 19	24 32	0 54	10 10	1 12	13 40	2 5	24 2	0 20	4 19	1 47	4 33	14 44	9 2	8 28	18 31		n.a.
S 8	22 50	4s 5	3 23	24 55	2 2	22 59	1 20	24 30	0 55	10 13	1 12	13 41	2 5	24 2	0 20	4 18	1 47	4 33	14 44	9 2	8 29	18 30		n.a.
S 9	22 42	8 3	4 9	24 43	2 2	22 47	1 21	24 28	0 55	10 15	1 12	13 42	2 5	24 2	0 20	4 18	1 47	4 33	14 44	9 2	8 31	18 30		n.a.
M10	22 35	11 35	4 42	24 29	2 1	22 34	1 22	24 26	0 55	10 17	1 12	13 43	2 6	24 2	0 20	4 17	1 47	4 33	14 43	9 3	8 32	18 30		n.a.
T 11	22 27	14 32	5 2	24 13	2 1	22 21	1 23	24 24	0 56	10 20	1 12	13 44	2 6	24 2	0 20	4 17	1 47	4 32	14 43	9 5	8 33	18 29		n.a.
W12	22 18	16 49	5 7	23 54	1 59	22 6	1 23	24 22	0 56	10 22	1 12	13 46	2 6	24 2	0 20	4 16	1 46	4 32	14 43	9 8	8 34	18 29		n.a.
T 13	22 9	18 21	4 59	23 34	1 57	21 51	1 24	24 19	0 57	10 24	1 13	13 47	2 6	24 2	0 20	4 16	1 46	4 32	14 42	9 12	8 35	18 29		n.a.
F 14	22 0	19 3	4 38	23 12	1 55	21 36	1 25	24 16	0 57	10 26	1 13	13 48	2 6	24 2	0 20	4 15	1 46	4 31	14 42	9 15	8 37	18 28		n.a.
S 15	21 50	18 56	4 5	22 48	1 52	21 19	1 25	24 12	0 57	10 28	1 13	13 49	2 6	24 2	0 20	4 14	1 46	4 31	14 42	9 18	8 38	18 28		n.a.
S 16	21 40	17 59	3 22	22 22	1 48	21 3	1 26	24 9	0 58	10 30	1 13	13 50	2 6	24 2	0 20	4 14	1 46	4 31	14 41	9 21	8 39	18 28		n.a.
M17	21 29	16 15	2 29	21 55	1 44	20 45	1 27	24 5	0 58	10 32	1 13	13 51	2 7	24 2	0 20	4 13	1 46	4 30	14 41	9 23	8 40	18 27		n.a.
T 18	21 18	13 49	1 30	21 25	1 39	20 27	1 27	24 0	0 59	10 34	1 13	13 52	2 7	24 2	0 20	4 13	1 46	4 30	14 41	9 25	8 41	18 27		n.a.
W19	21 7	10 47	0 26	20 53	1 34	20 8	1 27	23 56	0 59	10 36	1 14	13 53	2 7	24 2	0 20	4 12	1 46	4 29	14 40	9 25	8 43	18 26		n.a.
T 20	20 55	7 17	0s39	20 19	1 28	19 49	1 28	23 51	0 59	10 38	1 14	13 53	2 7	24 2	0 20	4 12	1 46	4 29	14 40	9 25	8 44	18 26		n.a.
F 21	20 43	3 26	1 44	19 44	1 21	19 29	1 28	23 46	1 0	10 40	1 14	13 54	2 7	24 2	0 20	4 11	1 46	4 29	14 40	9 25	8 45	18 26		n.a.
S 22	20 31	0n37	2 45	19 7	1 14	19 9	1 28	23 41	1 0	10 41	1 14	13 55	2 7	24 2	0 20	4 10	1 46	4 28	14 39	9 24	8 46	18 25		n.a.
S 23	20 18	4 45	3 40	18 29	1 5	18 48	1 28	23 35	1 0	10 43	1 14	13 56	2 7	24 2	0 20	4 10	1 46	4 28	14 39	9 24	8 47	18 25		n.a.
M24	20 4	8 45	4 25	17 49	0 56	18 27	1 28	23 29	1 1	10 44	1 14	13 57	2 8	24 2	0 20	4 9	1 46	4 27	14 39	9 24	8 49	18 25		n.a.
T 25	19 51	12 27	4 56	17 8	0 47	18 5	1 28	23 23	1 1	10 46	1 15	13 57	2 8	24 2	0 20	4 8	1 46	4 27	14 38	9 24	8 50	18 24		n.a.
W26	19 37	15 34	5 12	16 26	0 36	17 42	1 28	23 17	1 1	10 47	1 15	13 58	2 8	24 1	0 20	4 8	1 46	4 27	14 38	9 25	8 51	18 24		n.a.
T 27	19 22	17 49	5 8	15 43	0 25	17 19	1 28	23 10	1 2	10 49	1 15	13 59	2 8	24 1	0 21	4 7	1 46	4 26	14 38	9 26	8 52	18 23		n.a.
F 28	19 8	18 58	4 44	14 59	0 14	16 56	1 28	23 3	1 2	10 50	1 15	14 0	2 8	24 1	0 21	4 6	1 46	4 26	14 37	9 28	8 53	18 23		n.a.
S 29	18 53	18 48	4 1	14 16	0 1	16 32	1 28	22 56	1 2	10 51	1 15	14 0	2 8	24 1	0 21	4 6	1 46	4 25	14 37	9 30	8 55	18 23		n.a.
S 30	18 37	17 16	2 59	13 32	0n11	16 8	1 27	22 48	1 2	10 52	1 15	14 1	2 9	24 1	0 21	4 5	1 46	4 25	14 37	9 31	8 56	18 22		n.a.
M31	18s22	14n31	1s45	12s49	0n25	15s43	1s27	22s40	1s 3	10s53	1n16	14s 1	2n 9	24s 1	0s21	4s 4	1s46	4s24	14s36	9n32	8n57	18s22		n.a.

Julian Day Number = 1682706.5, Delta T = 03h14m37s
Ecliptic obliquity = 23°42'19, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'44, Lahiri = - 5°24'44 Julian Calendar 1 Jan. 106 BCE == Greg. Calendar 29 Dec. 107 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

FEBRUARY 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	8 30 34	9♒24'44	1♍ 5	26♒49	23♒12	24♉15	1♏24	13♏33	2♉42	23♓55	23♈20	5°D40	7♍11	21♉10	n.a.	T 1
W 2	8 34 31	10°24'49	15°44	28° 9	24°26	25° 2	1°27	13°35	2°45	23°56	23°21	5♍40	7° 8	21°17	n.a.	W 2
T 3	8 38 28	11°24'53	29°57	29°24	25°41	25°50	1°30	13°37	2°48	23°58	23°21	5°41	7° 5	21°24	n.a.	T 3
F 4	8 42 24	12°24'54	13♎43	0♓33	26°55	26°37	1°33	13°39	2°51	24° 0	23°22	5°43	7° 1	21°30	n.a.	F 4
S 5	8 46 21	13°24'54	27° 2	1°34	28°10	27°24	1°36	13°41	2°54	24° 2	23°22	5°44	6°58	21°37	n.a.	S 5
S 6	8 50 17	14°24'52	9♏56	2°28	29°24	28°11	1°39	13°43	2°57	24° 3	23°23	5°R45	6°55	21°44	n.a.	S 6
M 7	8 54 14	15°24'49	22°30	3°14	0♓39	28°58	1°41	13°45	3° 0	24° 5	23°23	5°45	6°52	21°50	n.a.	M 7
T 8	8 58 10	16°24'44	4♐46	3°51	1°53	29°45	1°43	13°47	3° 2	24° 7	23°24	5°44	6°49	21°57	n.a.	T 8
W 9	9 2 7	17°24'37	16°50	4°20	3° 8	0♒32	1°45	13°48	3° 5	24° 9	23°25	5°42	6°46	22° 4	n.a.	W 9
T 10	9 6 3	18°24'28	28°45	4°41	4°22	1°20	1°47	13°50	3° 8	24°11	23°25	5°39	6°42	22°11	n.a.	T 10
F 11	9 10 0	19°24'17	10♉36	4°52	5°37	2° 7	1°49	13°51	3°11	24°13	23°26	5°36	6°39	22°17	n.a.	F 11
S 12	9 13 57	20°24'05	22°25	4°R55	6°51	2°54	1°50	13°52	3°13	24°15	23°27	5°34	6°36	22°24	n.a.	S 12
S 13	9 17 53	21°23'50	4♒15	4°49	8° 5	3°41	1°52	13°54	3°16	24°17	23°27	5°32	6°33	22°31	n.a.	S 13
M14	9 21 50	22°23'34	16° 8	4°35	9°20	4°28	1°53	13°55	3°19	24°19	23°28	5°30	6°30	22°37	n.a.	M14
T 15	9 25 46	23°23'15	28° 7	4°13	10°34	5°15	1°54	13°56	3°21	24°21	23°29	5°30	6°27	22°44	n.a.	T 15
W16	9 29 43	24°22'54	10♓13	3°44	11°48	6° 2	1°54	13°57	3°24	24°23	23°29	5°D29	6°23	22°51	n.a.	W16
T 17	9 33 39	25°22'31	22°29	3° 8	13° 2	6°49	1°55	13°57	3°26	24°25	23°30	5°30	6°20	22°57	n.a.	T 17
F 18	9 37 36	26°22'06	4♈55	2°27	14°17	7°36	1°55	13°58	3°29	24°27	23°31	5°31	6°17	23° 4	n.a.	F 18
S 19	9 41 32	27°21'38	17°34	1°41	15°31	8°23	1°R55	13°59	3°31	24°29	23°32	5°32	6°14	23°11	n.a.	S 19
S 20	9 45 29	28°21'08	0♉29	0°51	16°45	9°10	1°55	13°59	3°34	24°31	23°33	5°32	6°11	23°17	n.a.	S 20
M21	9 49 25	29°20'36	13°41	29♒59	17°59	9°57	1°55	13°59	3°36	24°33	23°34	5°33	6° 7	23°24	n.a.	M21
T 22	9 53 22	0♓20'01	27°11	29° 5	19°13	10°44	1°55	14° 0	3°38	24°35	23°34	5°R33	6° 4	23°31	n.a.	T 22
W23	9 57 19	1°19'24	11♊ 3	28°11	20°27	11°31	1°54	14° 0	3°41	24°37	23°35	5°33	6° 1	23°37	n.a.	W23
T 24	10 1 15	2°18'45	25°14	27°18	21°41	12°18	1°53	14°R 0	3°43	24°39	23°36	5°33	5°58	23°44	n.a.	T 24
F 25	10 5 12	3°18'03	9♋43	26°27	22°55	13° 5	1°52	14° 0	3°45	24°41	23°37	5°33	5°55	23°51	n.a.	F 25
S 26	10 9 8	4°17'18	24°27	25°39	24° 9	13°52	1°51	14° 0	3°47	24°44	23°38	5°32	5°52	23°57	n.a.	S 26
S 27	10 13 5	5°16'32	9♌20	24°54	25°23	14°38	1°50	14° 0	3°49	24°46	23°39	5°D32	5°48	24° 4	n.a.	S 27
M28	10 17 1	6♓15'43	24♌15	24♒14	26♓37	15♒25	1♏48	13♏59	3♉51	24♓48	23♈40	5♍32	5♍45	24♉11	n.a.	M28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	18s 6	10n49	0s25	12s 6	0n39	15s18	1s26	22s32	1s 3	10s55	1n16	14s 2	2n 9	24s 1	0s21	4s 3	1s46	4s24	14s36	9n32	8n58	18s21		n.a.	T 1
W 2	17 49	6 32	0n55	11 25	0 53	14 52	1 26	22 24	1 3	10 56	1 16	14 2	2 9	24 1	0 21	4 3	1 46	4 23	14 36	9 32	8 59	18 21		n.a.	W 2
T 3	17 33	2 0	2 10	10 45	1 8	14 26	1 25	22 15	1 4	10 56	1 16	14 3	2 9	24 1	0 21	4 2	1 46	4 23	14 35	9 32	9 1	18 21		n.a.	T 3
F 4	17 16	2s29	3 15	10 7	1 22	14 0	1 24	22 7	1 4	10 57	1 16	14 3	2 9	24 1	0 21	4 1	1 45	4 22	14 35	9 31	9 2	18 20		n.a.	F 4
S 5	16 59	6 42	4 7	9 32	1 37	13 33	1 24	21 58	1 4	10 58	1 16	14 4	2 10	24 1	0 21	4 0	1 45	4 22	14 35	9 31	9 3	18 20		n.a.	S 5
S 6	16 41	10 28	4 44	8 58	1 52	13 6	1 23	21 48	1 4	10 59	1 17	14 4	2 10	24 1	0 21	4 0	1 45	4 22	14 34	9 30	9 4	18 19		n.a.	S 6
M 7	16 24	13 39	5 7	8 28	2 6	12 39	1 22	21 39	1 5	11 0	1 17	14 5	2 10	24 1	0 21	3 59	1 45	4 21	14 34	9 30	9 5	18 19		n.a.	M 7
T 8	16 6	16 9	5 15	8 2	2 20	12 11	1 21	21 29	1 5	11 0	1 17	14 5	2 10	24 1	0 21	3 58	1 45	4 21	14 34	9 31	9 6	18 18		n.a.	T 8
W 9	15 47	17 55	5 10	7 38	2 34	11 43	1 20	21 19	1 5	11 1	1 17	14 5	2 10	24 1	0 21	3 57	1 45	4 20	14 34	9 32	9 8	18 18		n.a.	W 9
T 10	15 29	18 52	4 50	7 19	2 47	11 14	1 19	21 9	1 5	11 1	1 17	14 5	2 11	24 1	0 21	3 57	1 45	4 20	14 33	9 32	9 9	18 17		n.a.	T 10
F 11	15 10	18 59	4 19	7 4	2 59	10 46	1 18	20 58	1 6	11 2	1 17	14 6	2 11	24 1	0 21	3 56	1 45	4 19	14 33	9 33	9 10	18 17		n.a.	F 11
S 12	14 51	18 16	3 36	6 52	3 10	10 17	1 17	20 48	1 6	11 2	1 18	14 6	2 11	24 1	0 21	3 55	1 45	4 18	14 33	9 34	9 11	18 17		n.a.	S 12
S 13	14 32	16 45	2 45	6 45	3 19	9 48	1 16	20 37	1 6	11 2	1 18	14 6	2 11	24 1	0 21	3 54	1 45	4 18	14 32	9 35	9 12	18 16		n.a.	S 13
M14	14 12	14 30	1 45	6 43	3 28	9 18	1 14	20 26	1 6	11 2	1 18	14 6	2 11	24 1	0 21	3 53	1 45	4 17	14 32	9 36	9 14	18 16		n.a.	M14
T 15	13 52	11 37	0 41	6 44	3 35	8 49	1 13	20 14	1 6	11 3	1 18	14 6	2 11	24 1	0 21	3 53	1 45	4 17	14 32	9 36	9 15	18 15		n.a.	T 15
W16	13 32	8 13	0s26	6 50	3 40	8 19	1 11	20 3	1 7	11 3	1 18	14 6	2 12	24 1	0 21	3 52	1 45	4 16	14 31	9 36	9 16	18 15		n.a.	W16
T 17	13 12	4 26	1 33	7 0	3 43	7 49	1 10	19 51	1 7	11 3	1 18	14 7	2 12	24 1	0 21	3 51	1 45	4 16	14 31	9 36	9 17	18 14		n.a.	T 17
F 18	12 52	0 25	2 36	7 13	3 45	7 18	1 8	19 39	1 7	11 3	1 19	14 7	2 12	24 0	0 21	3 50	1 45	4 15	14 31	9 36	9 18	18 14		n.a.	F 18
S 19	12 31	3n42	3 33	7 30	3 44	6 48	1 7	19 27	1 7	11 3	1 19	14 7	2 12	24 0	0 21	3 49	1 45	4 15	14 31	9 35	9 20	18 13		n.a.	S 19
S 20	12 11	7 42	4 20	7 50	3 42	6 17	1 5	19 14	1 7	11 2	1 19	14 7	2 12	24 0	0 21	3 48	1 45	4 14	14 30	9 35	9 21	18 13		n.a.	S 20
M21	11 50	11 26	4 55	8 12	3 38	5 46	1 3	19 2	1 7	11 2	1 19	14 6	2 12	24 0	0 21	3 48	1 45	4 14	14 30	9 35	9 22	18 12		n.a.	M21
T 22	11 29	14 39	5 14	8 37	3 32	5 15	1 2	18 49	1 8	11 2	1 19	14 6	2 13	24 0	0 21	3 47	1 45	4 13	14 30	9 35	9 23	18 12		n.a.	T 22
W23	11 7	17 8	5 16	9 3	3 24	4 44	1 0	18 36	1 8	11 2	1 19	14 6	2 13	24 0	0 21	3 46	1 45	4 12	14 30	9 35	9 24	18 11		n.a.	W23
T 24	10 46	18 38	4 59	9 29	3 15	4 13	0 58	18 23	1 8	11 1	1 20	14 6	2 13	24 0	0 21	3 45	1 45	4 12	14 29	9 35	9 25	18 11		n.a.	T 24
F 25	10 24	18 58	4 23	9 57	3 4	3 42	0 56	18 10	1 8	11 1	1 20	14 6	2 13	24 0	0 21	3 44	1 45	4 11	14 29	9 35	9 27	18 10		n.a.	F 25
S 26	10 3	18 2	3 29	10 25	2 52	3 11	0 54	17 56	1 8	11 0	1 20	14 6	2 13	24 0	0 21	3 43	1 45	4 11	14 29	9 35	9 28	18 10		n.a.	S 26
S 27	9 41	15 51	2 21	10 52	2 39	2 39	0 52	17 42	1 8	11 0	1 20	14 6	2 13	24 0	0 21	3 42	1 45	4 10	14 29	9 35	9 29	18 9		n.a.	S 27
M28	9s19	12n36	1s 2	11s18	2n26	2s 8	0s50	17s29	1s 8	10s59	1n20	14s 5	2n14	24s 0	0s21	3s41	1s45	4s10	14s28	9n35	9n30	18s 9		n.a.	M28

Julian Day Number = 1682737.5, Delta T = 03h14m36s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'40, Lahiri = - 5°24'40 Julian Calendar 1 Feb. 106 BCE == Greg. Calendar 29 Jan. 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

MARCH 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 20 58	7♓14'51	9♍ 3	23°R38	27♓50	16♒12	1°R47	13°R59	3♉53	24♓50	23♈41	5°R32	5♍42	24♉18	n.a.	T 1
W 2	10 24 54	8°13'58	23°38	23♒ 7	29° 4	16°59	1♏45	13♏58	3°55	24°52	23°42	5♍32	5°39	24°24	n.a.	W 2
T 3	10 28 51	9°13'02	7♎53	22°42	0♈18	17°46	1°43	13°58	3°57	24°54	23°43	5°32	5°36	24°31	n.a.	T 3
F 4	10 32 47	10°12'05	21°44	22°23	1°32	18°32	1°40	13°57	3°59	24°57	23°44	5°31	5°32	24°38	n.a.	F 4
S 5	10 36 44	11°11'06	5♏10	22° 9	2°45	19°19	1°38	13°56	4° 1	24°59	23°45	5°31	5°29	24°44	n.a.	S 5
S 6	10 40 41	12°10'04	18°12	22° 1	3°59	20° 6	1°35	13°56	4° 3	25° 1	23°46	5°30	5°26	24°51	n.a.	S 6
M 7	10 44 37	13° 9'01	0♐51	21°D58	5°13	20°52	1°33	13°55	4° 5	25° 3	23°47	5°30	5°23	24°58	n.a.	M 7
T 8	10 48 34	14° 7'56	13°11	22° 1	6°26	21°39	1°30	13°53	4° 6	25° 5	23°48	5°D29	5°20	25° 4	n.a.	T 8
W 9	10 52 30	15° 6'50	25°16	22° 9	7°40	22°26	1°26	13°52	4° 8	25° 8	23°49	5°30	5°17	25°11	n.a.	W 9
T 10	10 56 27	16° 5'41	7♑11	22°22	8°53	23°12	1°23	13°51	4°10	25°10	23°50	5°30	5°13	25°18	n.a.	T 10
F 11	11 0 23	17° 4'31	19° 1	22°41	10° 6	23°59	1°20	13°50	4°11	25°12	23°51	5°31	5°10	25°24	n.a.	F 11
S 12	11 4 20	18° 3'19	0♒50	23° 4	11°20	24°45	1°16	13°48	4°13	25°14	23°53	5°32	5° 7	25°31	n.a.	S 12
S 13	11 8 16	19° 2'04	12°42	23°31	12°33	25°32	1°12	13°47	4°15	25°17	23°54	5°34	5° 4	25°38	n.a.	S 13
M14	11 12 13	20° 0'48	24°41	24° 3	13°47	26°18	1° 8	13°45	4°16	25°19	23°55	5°35	5° 1	25°44	n.a.	M14
T 15	11 16 10	20°59'30	6♓49	24°39	15° 0	27° 4	1° 4	13°43	4°17	25°21	23°56	5°R35	4°58	25°51	n.a.	T 15
W16	11 20 6	21°58'10	19° 8	25°19	16°13	27°51	1° 0	13°41	4°19	25°23	23°57	5°34	4°54	25°58	n.a.	W16
T 17	11 24 3	22°56'48	1♈40	26° 2	17°26	28°37	0°55	13°40	4°20	25°26	23°58	5°33	4°51	26° 4	n.a.	T 17
F 18	11 27 59	23°55'24	14°26	26°49	18°40	29°24	0°50	13°38	4°21	25°28	23°59	5°31	4°48	26°11	n.a.	F 18
S 19	11 31 56	24°53'57	27°25	27°40	19°53	0♓10	0°46	13°35	4°23	25°30	24° 1	5°28	4°45	26°18	n.a.	S 19
S 20	11 35 52	25°52'29	10♉39	28°33	21° 6	0°56	0°41	13°33	4°24	25°32	24° 2	5°25	4°42	26°24	n.a.	S 20
M21	11 39 49	26°50'58	24° 6	29°30	22°19	1°42	0°36	13°31	4°25	25°35	24° 3	5°22	4°38	26°31	n.a.	M21
T 22	11 43 45	27°49'26	7♊46	0♓30	23°32	2°28	0°30	13°29	4°26	25°37	24° 4	5°20	4°35	26°38	n.a.	T 22
W23	11 47 42	28°47'51	21°39	1°32	24°45	3°14	0°25	13°26	4°27	25°39	24° 6	5°19	4°32	26°44	n.a.	W23
T 24	11 51 38	29°46'13	5♋43	2°37	25°58	4° 1	0°19	13°24	4°28	25°42	24° 7	5°D19	4°29	26°51	n.a.	T 24
F 25	11 55 35	0♈44'34	19°57	3°45	27°10	4°47	0°14	13°21	4°29	25°44	24° 8	5°20	4°26	26°58	n.a.	F 25
S 26	11 59 32	1°42'52	4♌19	4°55	28°23	5°33	0° 8	13°18	4°30	25°46	24° 9	5°21	4°23	27° 4	n.a.	S 26
S 27	12 3 28	2°41'08	18°47	6° 8	29°36	6°19	0° 2	13°16	4°31	25°48	24°11	5°23	4°19	27°11	n.a.	S 27
M28	12 7 25	3°39'22	3♍15	7°23	0♉49	7° 4	29♎56	13°13	4°31	25°51	24°12	5°R23	4°16	27°18	n.a.	M28
T 29	12 11 21	4°37'34	17°40	8°40	2° 1	7°50	29°50	13°10	4°32	25°53	24°13	5°23	4°13	27°24	n.a.	T 29
W30	12 15 18	5°35'44	1♎56	9°59	3°14	8°36	29°44	13° 7	4°33	25°55	24°14	5°21	4°10	27°31	n.a.	W30
T 31	12 19 14	6♈33'52	15♎58	11♓21	4♉26	9♓22	29♎37	13♏ 4	4♉34	25♓57	24♈16	5♍18	4♍ 7	27♉38	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	8s57	8n34	0n20	11s44	2n11	1s36	0s48	17s14	1s 8	10s58	1n20	14s 5	2n14	24s 0	0s21	3s41	1s45	4s 9	14s28	9n35	9n31	18s 8			n.a.
W 2	8 34	4 4	1 39	12 8	1 56	1 4	0 46	17 0	1 8	10 57	1 20	14 5	2 14	24 0	0 21	3 40	1 45	4 8	14 28	9 35	9 33	18 8			n.a.
T 3	8 12	0s34	2 50	12 30	1 41	0 33	0 44	16 46	1 8	10 56	1 21	14 4	2 14	24 0	0 21	3 39	1 45	4 8	14 28	9 35	9 34	18 7			n.a.
F 4	7 50	5 1	3 50	12 51	1 26	0 1	0 41	16 31	1 9	10 56	1 21	14 4	2 14	24 0	0 21	3 38	1 45	4 7	14 27	9 35	9 35	18 7			n.a.
S 5	7 27	9 5	4 34	13 10	1 10	0n31	0 39	16 17	1 9	10 55	1 21	14 4	2 14	24 0	0 21	3 37	1 45	4 7	14 27	9 36	9 36	18 6			n.a.
S 6	7 4	12 35	5 3	13 27	0 55	1 2	0 37	16 2	1 9	10 54	1 21	14 3	2 15	24 0	0 21	3 36	1 45	4 6	14 27	9 36	9 37	18 6			n.a.
M 7	6 42	15 24	5 16	13 42	0 40	1 34	0 34	15 47	1 9	10 52	1 21	14 3	2 15	24 0	0 21	3 35	1 45	4 6	14 27	9 36	9 38	18 5			n.a.
T 8	6 19	17 26	5 15	13 55	0 26	2 6	0 32	15 32	1 9	10 51	1 21	14 2	2 15	24 0	0 21	3 34	1 45	4 5	14 26	9 36	9 40	18 5			n.a.
W 9	5 56	18 39	4 59	14 6	0 11	2 37	0 29	15 16	1 9	10 50	1 21	14 2	2 15	24 0	0 21	3 33	1 45	4 4	14 26	9 36	9 41	18 4			n.a.
T 10	5 33	19 1	4 30	14 15	0s 2	3 9	0 27	15 1	1 9	10 49	1 22	14 1	2 15	24 0	0 21	3 32	1 45	4 4	14 26	9 36	9 42	18 4			n.a.
F 11	5 10	18 32	3 51	14 21	0 16	3 40	0 24	14 45	1 9	10 47	1 22	14 1	2 15	24 0	0 21	3 32	1 45	4 3	14 26	9 35	9 43	18 3			n.a.
S 12	4 46	17 15	3 1	14 26	0 28	4 12	0 22	14 30	1 9	10 46	1 22	14 0	2 16	24 0	0 21	3 31	1 45	4 3	14 26	9 35	9 44	18 3			n.a.
S 13	4 23	15 13	2 3	14 28	0 41	4 43	0 19	14 14	1 9	10 45	1 22	14 0	2 16	24 0	0 21	3 30	1 45	4 2	14 25	9 34	9 46	18 2			n.a.
M14	4 0	12 30	1 0	14 28	0 52	5 14	0 17	13 58	1 9	10 43	1 22	13 59	2 16	24 0	0 21	3 29	1 45	4 1	14 25	9 34	9 47	18 2			n.a.
T 15	3 37	9 13	0s 7	14 27	1 3	5 45	0 14	13 42	1 9	10 41	1 22	13 58	2 16	24 0	0 22	3 28	1 45	4 1	14 25	9 34	9 48	18 1			n.a.
W16	3 13	5 29	1 14	14 23	1 14	6 16	0 11	13 26	1 9	10 40	1 22	13 58	2 16	24 0	0 22	3 27	1 45	4 0	14 25	9 34	9 49	18 0			n.a.
T 17	2 50	1 27	2 19	14 18	1 24	6 47	0 9	13 9	1 9	10 38	1 22	13 57	2 16	24 0	0 22	3 26	1 45	4 0	14 25	9 35	9 50	18 0			n.a.
F 18	2 26	2n42	3 18	14 10	1 33	7 18	0 6	12 53	1 9	10 36	1 22	13 56	2 16	24 0	0 22	3 25	1 45	3 59	14 24	9 36	9 51	17 59			n.a.
S 19	2 3	6 49	4 8	14 1	1 42	7 48	0 3	12 36	1 9	10 35	1 23	13 55	2 17	24 0	0 22	3 24	1 45	3 59	14 24	9 37	9 53	17 59			n.a.
S 20	1 39	10 39	4 46	13 49	1 50	8 19	0 0	12 20	1 9	10 33	1 23	13 55	2 17	24 0	0 22	3 23	1 45	3 58	14 24	9 38	9 54	17 58			n.a.
M21	1 16	14 1	5 9	13 36	1 57	8 49	0n 2	12 3	1 9	10 31	1 23	13 54	2 17	24 0	0 22	3 23	1 45	3 57	14 24	9 39	9 55	17 58			n.a.
T 22	0 52	16 40	5 15	13 21	2 4	9 19	0 5	11 46	1 9	10 29	1 23	13 53	2 17	24 0	0 22	3 22	1 45	3 57	14 24	9 39	9 56	17 57			n.a.
W23	0 29	18 25	5 2	13 4	2 10	9 49	0 8	11 29	1 8	10 27	1 23	13 52	2 17	24 0	0 22	3 21	1 45	3 56	14 24	9 40	9 57	17 57			n.a.
T 24	0 6	19 3	4 32	12 46	2 16	10 18	0 11	11 12	1 8	10 25	1 23	13 51	2 17	24 0	0 22	3 20	1 45	3 56	14 23	9 40	9 58	17 56			n.a.
F 25	0n18	18 30	3 44	12 26	2 21	10 47	0 14	10 55	1 8	10 23	1 23	13 50	2 17	23 59	0 22	3 19	1 45	3 55	14 23	9 40	10 0	17 55			n.a.
S 26	0 41	16 46	2 43	12 4	2 25	11 16	0 16	10 38	1 8	10 21	1 23	13 49	2 17	23 59	0 22	3 18	1 45	3 54	14 23	9 39	10 1	17 55			n.a.
S 27	1 5	13 56	1 30	11 40	2 29	11 45	0 19	10 21	1 8	10 19	1 23	13 49	2 18	23 59	0 22	3 17	1 45	3 54	14 23	9 39	10 2	17 54			n.a.
M28	1 28	10 15	0 12	11 15	2 33	12 14	0 22	10 4	1 8	10 17	1 23	13 48	2 18	23 59	0 22	3 16	1 45	3 53	14 23	9 38	10 3	17 54			n.a.
T 29	1 51	5 57	1n 7	10 48	2 35	12 42	0 25	9 46	1 8	10 14	1 23	13 47	2 18	23 59	0 22	3 15	1 45	3 53	14 23	9 38	10 4	17 53			n.a.
W30	2 15	1 22	2 20	10 20	2 37	13 10	0 28	9 29	1 8	10 12	1 23	13 46	2 18	23 59	0 22	3 14	1 45	3 52	14 23	9 39	10 5	17 52			n.a.
T 31	2n38	3s13	3n24	9s50	2s39	13n37	0n31	9s11	1s 8	10s10	1n23	13s45	2n18	23s59	0s22	3s14	1s45	3s52	14s23	9n40	10n 7	17s52			n.a.

Julian Day Number = 1682765.5, Delta T = 03h14m36s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'36, Lahiri = - 5°24'36 Julian Calendar 1 March 106 BCE == Greg. Calendar 26 Feb. 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

APRIL 106 BCE (-105) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 23 11	7♈31'59	29♎42	12♓44	5♉39	10♓ 8	29°R31	13°R 1	4♑34	25♓59	24♈17	5°R13	4♍ 4	27♑44	n.a.	F 1
S 2	12 27 7	8°30'03	13♏ 5	14°10	6°51	10°53	29♎24	12♏58	4°35	26° 2	24°18	5♍ 8	4° 0	27°51	n.a.	S 2
S 3	12 31 4	9°28'06	26° 7	15°38	8° 4	11°39	29°18	12°54	4°35	26° 4	24°20	5° 2	3°57	27°58	n.a.	S 3
M 4	12 35 1	10°26'08	8♐48	17° 8	9°16	12°25	29°11	12°51	4°36	26° 6	24°21	4°58	3°54	28° 4	n.a.	M 4
T 5	12 38 57	11°24'08	21°10	18°39	10°28	13°10	29° 4	12°48	4°36	26° 8	24°22	4°54	3°51	28°11	n.a.	T 5
W 6	12 42 54	12°22'07	3♑17	20°13	11°41	13°56	28°57	12°44	4°36	26°11	24°24	4°52	3°48	28°18	n.a.	W 6
T 7	12 46 50	13°20'04	15°14	21°49	12°53	14°41	28°50	12°41	4°37	26°13	24°25	4°D52	3°44	28°24	n.a.	T 7
F 8	12 50 47	14°18'00	27° 4	23°27	14° 5	15°27	28°43	12°37	4°37	26°15	24°26	4°53	3°41	28°31	n.a.	F 8
S 9	12 54 43	15°15'54	8♒54	25° 6	15°17	16°12	28°36	12°34	4°37	26°17	24°28	4°54	3°38	28°38	n.a.	S 9
S 10	12 58 40	16°13'47	20°48	26°48	16°29	16°58	28°28	12°30	4°37	26°19	24°29	4°56	3°35	28°44	n.a.	S 10
M11	13 2 36	17°11'39	2♓51	28°31	17°41	17°43	28°21	12°26	4°37	26°21	24°30	4°R57	3°32	28°51	n.a.	M11
T 12	13 6 33	18° 9'29	15° 7	0♈17	18°53	18°28	28°14	12°22	4°R37	26°23	24°32	4°56	3°29	28°58	n.a.	T 12
W13	13 10 30	19° 7'18	27°38	2° 4	20° 5	19°13	28° 6	12°19	4°37	26°26	24°33	4°54	3°25	29° 4	n.a.	W13
T 14	13 14 26	20° 5'05	10♈27	3°54	21°17	19°59	27°59	12°15	4°37	26°28	24°34	4°49	3°22	29°11	n.a.	T 14
F 15	13 18 23	21° 2'51	23°34	5°45	22°29	20°44	27°51	12°11	4°37	26°30	24°36	4°43	3°19	29°18	n.a.	F 15
S 16	13 22 19	22° 0'36	6♉58	7°38	23°40	21°29	27°44	12° 7	4°37	26°32	24°37	4°36	3°16	29°24	n.a.	S 16
S 17	13 26 16	22°58'18	20°37	9°33	24°52	22°14	27°36	12° 3	4°37	26°34	24°38	4°28	3°13	29°31	n.a.	S 17
M18	13 30 12	23°56'00	4♊28	11°30	26° 4	22°59	27°28	11°59	4°37	26°36	24°40	4°20	3° 9	29°38	n.a.	M18
T 19	13 34 9	24°53'40	18°28	13°29	27°15	23°44	27°21	11°55	4°36	26°38	24°41	4°14	3° 6	29°45	n.a.	T 19
W20	13 38 5	25°51'18	2♋33	15°30	28°27	24°28	27°13	11°51	4°36	26°40	24°43	4°10	3° 3	29°51	n.a.	W20
T 21	13 42 2	26°48'55	16°42	17°33	29°38	25°13	27° 6	11°46	4°35	26°42	24°44	4° 7	3° 0	29°58	n.a.	T 21
F 22	13 45 58	27°46'30	0♌51	19°37	0♊49	25°58	26°58	11°42	4°35	26°44	24°45	4°D 7	2°57	0♒ 5	n.a.	F 22
S 23	13 49 55	28°44'03	15° 0	21°43	2° 1	26°43	26°50	11°38	4°35	26°46	24°47	4° 8	2°54	0°11	n.a.	S 23
S 24	13 53 52	29°41'35	29° 7	23°50	3°12	27°27	26°43	11°34	4°34	26°48	24°48	4°R 8	2°50	0°18	n.a.	S 24
M25	13 57 48	0♉39'05	13♍11	25°58	4°23	28°12	26°35	11°30	4°33	26°50	24°49	4° 8	2°47	0°25	n.a.	M25
T 26	14 1 45	1°36'33	27° 9	28° 8	5°34	28°56	26°27	11°25	4°33	26°52	24°51	4° 6	2°44	0°31	n.a.	T 26
W27	14 5 41	2°34'01	11♎ 0	0♉18	6°45	29°41	26°20	11°21	4°32	26°54	24°52	4° 2	2°41	0°38	n.a.	W27
T 28	14 9 38	3°31'27	24°40	2°30	7°56	0♈25	26°12	11°17	4°31	26°56	24°53	3°55	2°38	0°45	n.a.	T 28
F 29	14 13 34	4°28'52	8♏ 6	4°41	9° 7	1°10	26° 5	11°12	4°31	26°58	24°55	3°45	2°35	0°51	n.a.	F 29
S 30	14 17 31	5♉26'16	21♏17	6♉53	10♊18	1♈54	25♎57	11♏ 8	4♑30	27♓ 0	24♈56	3♍35	2♍31	0♒58	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n 1	7s31	4n14	9s18	2s40	14n 5	0n34	8s54	1s 7	10s 7	1n23	13s44	2n18	24s 0	0s22	3s13	1s45	3s51	14s22	9n42	10n 8	17s51		n.a.
S 2	3 24	11 21	4 49	8 45	2 40	14 32	0 36	8 36	1 7	10 5	1 23	13 42	2 18	24 0	0 22	3 12	1 45	3 50	14 22	9 44	10 9	17 51		n.a.
S 3	3 48	14 30	5 8	8 10	2 40	14 58	0 39	8 18	1 7	10 3	1 23	13 41	2 18	24 0	0 22	3 11	1 45	3 50	14 22	9 46	10 10	17 50		n.a.
M 4	4 11	16 53	5 11	7 34	2 39	15 24	0 42	8 0	1 7	10 0	1 23	13 40	2 18	24 0	0 22	3 10	1 45	3 49	14 22	9 48	10 11	17 49		n.a.
T 5	4 34	18 26	4 59	6 57	2 37	15 50	0 45	7 43	1 7	9 58	1 23	13 39	2 18	24 0	0 22	3 9	1 45	3 49	14 22	9 49	10 12	17 49		n.a.
W 6	4 56	19 5	4 35	6 18	2 35	16 16	0 48	7 25	1 7	9 55	1 24	13 38	2 19	24 0	0 22	3 8	1 45	3 48	14 22	9 50	10 14	17 48		n.a.
T 7	5 19	18 53	3 58	5 37	2 33	16 41	0 50	7 7	1 6	9 53	1 24	13 37	2 19	24 0	0 22	3 7	1 45	3 48	14 22	9 50	10 15	17 47		n.a.
F 8	5 42	17 51	3 12	4 55	2 30	17 5	0 53	6 49	1 6	9 50	1 24	13 36	2 19	24 0	0 22	3 7	1 45	3 47	14 22	9 50	10 16	17 47		n.a.
S 9	6 5	16 2	2 17	4 12	2 26	17 30	0 56	6 31	1 6	9 48	1 23	13 35	2 19	24 0	0 22	3 6	1 45	3 46	14 22	9 49	10 17	17 46		n.a.
S 10	6 27	13 31	1 16	3 27	2 22	17 53	0 59	6 13	1 6	9 45	1 23	13 33	2 19	24 0	0 22	3 5	1 45	3 46	14 22	9 49	10 18	17 45		n.a.
M11	6 50	10 24	0 11	2 41	2 17	18 17	1 1	5 55	1 6	9 42	1 23	13 32	2 19	24 0	0 22	3 4	1 45	3 45	14 22	9 48	10 19	17 45		n.a.
T 12	7 12	6 46	0s55	1 54	2 12	18 39	1 4	5 37	1 5	9 40	1 23	13 31	2 19	24 0	0 22	3 3	1 45	3 45	14 21	9 48	10 21	17 44		n.a.
W13	7 34	2 47	2 0	1 6	2 6	19 2	1 7	5 19	1 5	9 37	1 23	13 30	2 19	24 0	0 22	3 2	1 45	3 44	14 21	9 49	10 22	17 44		n.a.
T 14	7 56	1n26	3 0	0 16	2 0	19 24	1 9	5 0	1 5	9 35	1 23	13 29	2 19	24 0	0 22	3 2	1 45	3 44	14 21	9 51	10 23	17 43		n.a.
F 15	8 18	5 39	3 52	0n35	1 53	19 45	1 12	4 42	1 5	9 32	1 23	13 27	2 19	24 0	0 22	3 1	1 45	3 43	14 21	9 53	10 24	17 42		n.a.
S 16	8 40	9 42	4 33	1 27	1 46	20 6	1 15	4 24	1 5	9 29	1 23	13 26	2 19	24 0	0 22	3 0	1 45	3 43	14 21	9 56	10 25	17 42		n.a.
S 17	9 2	13 18	4 58	2 20	1 38	20 26	1 17	4 6	1 4	9 27	1 23	13 25	2 19	24 0	0 22	2 59	1 45	3 42	14 21	9 59	10 26	17 41		n.a.
M18	9 23	16 14	5 7	3 14	1 30	20 46	1 20	3 48	1 4	9 24	1 23	13 24	2 19	24 0	0 22	2 58	1 45	3 42	14 21	10 2	10 28	17 40		n.a.
T 19	9 45	18 15	4 58	4 8	1 21	21 6	1 22	3 30	1 4	9 21	1 23	13 22	2 19	24 0	0 22	2 58	1 45	3 41	14 21	10 4	10 29	17 40		n.a.
W20	10 6	19 10	4 31	5 4	1 12	21 24	1 25	3 11	1 3	9 18	1 23	13 21	2 19	24 0	0 22	2 57	1 45	3 41	14 21	10 6	10 30	17 39		n.a.
T 21	10 27	18 54	3 47	6 0	1 2	21 43	1 27	2 53	1 3	9 16	1 23	13 20	2 19	24 0	0 23	2 56	1 45	3 40	14 21	10 6	10 31	17 38		n.a.
F 22	10 48	17 26	2 49	6 57	0 53	22 0	1 29	2 35	1 3	9 13	1 23	13 18	2 19	24 0	0 23	2 55	1 45	3 40	14 21	10 7	10 32	17 38		n.a.
S 23	11 9	14 54	1 41	7 54	0 43	22 17	1 32	2 17	1 3	9 10	1 23	13 17	2 19	24 0	0 23	2 54	1 45	3 39	14 21	10 6	10 33	17 37		n.a.
S 24	11 29	11 29	0 27	8 51	0 32	22 34	1 34	1 58	1 2	9 8	1 23	13 16	2 19	24 0	0 23	2 54	1 45	3 39	14 21	10 6	10 34	17 36		n.a.
M25	11 50	7 25	0n48	9 48	0 22	22 50	1 36	1 40	1 2	9 5	1 23	13 14	2 19	24 0	0 23	2 53	1 46	3 38	14 21	10 6	10 36	17 35		n.a.
T 26	12 10	2 59	2 0	10 45	0 11	23 5	1 38	1 22	1 2	9 2	1 22	13 13	2 19	24 0	0 23	2 52	1 46	3 38	14 21	10 7	10 37	17 35		n.a.
W27	12 30	1s35	3 4	11 42	0 1	23 19	1 40	1 4	1 1	9 0	1 22	13 12	2 19	24 0	0 23	2 51	1 46	3 37	14 21	10 9	10 38	17 34		n.a.
T 28	12 50	6 0	3 56	12 37	0n10	23 33	1 42	0 46	1 1	8 57	1 22	13 10	2 19	24 0	0 23	2 51	1 46	3 37	14 21	10 11	10 39	17 33		n.a.
F 29	13 9	10 2	4 34	13 33	0 20	23 47	1 44	0 28	1 1	8 54	1 22	13 9	2 19	24 0	0 23	2 50	1 46	3 36	14 21	10 14	10 40	17 33		n.a.
S 30	13n29	13s30	4n57	14n26	0n31	23n59	1n46	0s 9	1s 0	8s52	1n22	13s 8	2n19	24s 0	0s23	2s49	1s46	3s36	14s21	10n18	10n41	17s32		n.a.

Julian Day Number = 1682796.5, Delta T = 03h14m35s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'32, Lahiri = - 5°24'31 Julian Calendar 1 Apr. 106 BCE == Greg. Calendar 29 March 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

MAY 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 21 27	6♉23'38	4♐10	9♉ 4	11♊28	2♈38	25°R50	11°R 3	4°R29	27♓ 2	24♈57	3°R25	2♍28	1♒ 5	n.a.	S 1
M 2	14 25 24	7°21'01	16°46	11°15	12°39	3°22	25♎43	10♏59	4♑28	27° 3	24°59	3♍15	2°25	1°11	n.a.	M 2
T 3	14 29 21	8°18'22	29° 6	13°26	13°50	4° 7	25°35	10°55	4°27	27° 5	25° 0	3° 7	2°22	1°18	n.a.	T 3
W 4	14 33 17	9°15'42	11♑12	15°35	15° 0	4°51	25°28	10°50	4°26	27° 7	25° 1	3° 1	2°19	1°25	n.a.	W 4
T 5	14 37 14	10°13'02	23° 8	17°44	16°11	5°35	25°21	10°46	4°25	27° 9	25° 3	2°57	2°15	1°31	n.a.	T 5
F 6	14 41 10	11°10'21	4♒58	19°51	17°21	6°19	25°14	10°41	4°24	27°10	25° 4	2°56	2°12	1°38	n.a.	F 6
S 7	14 45 7	12° 7'39	16°48	21°56	18°31	7° 3	25° 7	10°37	4°23	27°12	25° 5	2°D56	2° 9	1°45	n.a.	S 7
S 8	14 49 3	13° 4'57	28°43	24° 0	19°41	7°46	25° 0	10°33	4°22	27°14	25° 7	2°R56	2° 6	1°51	n.a.	S 8
M 9	14 53 0	14° 2'14	10♓48	26° 2	20°51	8°30	24°53	10°28	4°20	27°16	25° 8	2°56	2° 3	1°58	n.a.	M 9
T 10	14 56 56	14°59'31	23° 8	28° 1	22° 1	9°14	24°46	10°24	4°19	27°17	25° 9	2°54	2° 0	2° 5	n.a.	T 10
W11	15 0 53	15°56'47	5♈47	29°59	23°11	9°58	24°39	10°19	4°18	27°19	25°10	2°50	1°56	2°11	n.a.	W11
T 12	15 4 50	16°54'02	18°48	1♊54	24°21	10°41	24°33	10°15	4°16	27°21	25°12	2°44	1°53	2°18	n.a.	T 12
F 13	15 8 46	17°51'17	2♉12	3°47	25°31	11°25	24°26	10°11	4°15	27°22	25°13	2°35	1°50	2°24	n.a.	F 13
S 14	15 12 43	18°48'32	15°57	5°38	26°41	12° 8	24°20	10° 6	4°14	27°24	25°14	2°24	1°47	2°31	n.a.	S 14
S 15	15 16 39	19°45'46	0♊ 1	7°26	27°50	12°52	24°13	10° 2	4°12	27°25	25°16	2°13	1°44	2°38	n.a.	S 15
M16	15 20 36	20°42'59	14°19	9°12	29° 0	13°35	24° 7	9°58	4°11	27°27	25°17	2° 2	1°40	2°44	n.a.	M16
T 17	15 24 32	21°40'11	28°44	10°55	0♋ 9	14°18	24° 1	9°53	4° 9	27°28	25°18	1°53	1°37	2°51	n.a.	T 17
W18	15 28 29	22°37'23	13♋11	12°36	1°19	15° 2	23°55	9°49	4° 8	27°30	25°19	1°46	1°34	2°58	n.a.	W18
T 19	15 32 26	23°34'34	27°34	14°15	2°28	15°45	23°49	9°45	4° 6	27°31	25°20	1°42	1°31	3° 4	n.a.	T 19
F 20	15 36 22	24°31'45	11♌50	15°51	3°37	16°28	23°44	9°41	4° 4	27°33	25°22	1°40	1°28	3°11	n.a.	F 20
S 21	15 40 19	25°28'54	25°58	17°24	4°46	17°11	23°38	9°37	4° 3	27°34	25°23	1°40	1°25	3°18	n.a.	S 21
S 22	15 44 15	26°26'03	9♍55	18°55	5°55	17°54	23°33	9°32	4° 1	27°35	25°24	1°40	1°21	3°24	n.a.	S 22
M23	15 48 12	27°23'11	23°42	20°23	7° 4	18°37	23°27	9°28	3°59	27°37	25°25	1°39	1°18	3°31	n.a.	M23
T 24	15 52 8	28°20'18	7♎20	21°49	8°13	19°20	23°22	9°24	3°57	27°38	25°26	1°36	1°15	3°38	n.a.	T 24
W25	15 56 5	29°17'25	20°47	23°12	9°21	20° 3	23°17	9°20	3°56	27°39	25°28	1°30	1°12	3°44	n.a.	W25
T 26	16 0 1	0♊14'32	4♏ 3	24°33	10°30	20°45	23°12	9°16	3°54	27°41	25°29	1°21	1° 9	3°51	n.a.	T 26
F 27	16 3 58	1°11'38	17° 8	25°51	11°38	21°28	23° 8	9°12	3°52	27°42	25°30	1°10	1° 6	3°58	n.a.	F 27
S 28	16 7 55	2° 8'44	29°59	27° 6	12°46	22°11	23° 3	9° 9	3°50	27°43	25°31	0°57	1° 2	4° 4	n.a.	S 28
S 29	16 11 51	3° 5'50	12♐39	28°18	13°55	22°53	22°59	9° 5	3°48	27°44	25°32	0°45	0°59	4°11	n.a.	S 29
M30	16 15 48	4° 2'55	25° 4	29°28	15° 3	23°36	22°54	9° 1	3°46	27°45	25°33	0°32	0°56	4°18	n.a.	M30
T 31	16 19 44	5♊ 0'01	7♑16	0♋34	16♋10	24♈18	22♎50	8♏57	3♑44	27♓47	25♈34	0♍22	0♍53	4♒24	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	13n48	16s14	5n 4	15n19	0n41	24n11	1n48	0n 9	1s 0	8s49	1n22	13s 6	2n19	24s 0	0s23	2s49	1s46	3s35	14s21	10n22	10n43	17s31			n.a.
M 2	14 7	18 8	4 56	16 10	0 50	24 23	1 50	0 27	1 0	8 47	1 22	13 5	2 19	24 1	0 23	2 48	1 46	3 35	14 21	10 26	10 44	17 31			n.a.
T 3	14 26	19 9	4 34	17 0	1 0	24 33	1 51	0 45	0 59	8 44	1 22	13 4	2 19	24 1	0 23	2 47	1 46	3 35	14 21	10 29	10 45	17 30			n.a.
W 4	14 44	19 15	4 0	17 47	1 9	24 43	1 53	1 3	0 59	8 42	1 21	13 2	2 19	24 1	0 23	2 46	1 46	3 34	14 21	10 31	10 46	17 29			n.a.
T 5	15 3	18 29	3 16	18 33	1 17	24 53	1 55	1 21	0 59	8 39	1 21	13 1	2 19	24 1	0 23	2 46	1 46	3 34	14 21	10 32	10 47	17 28			n.a.
F 6	15 21	16 55	2 23	19 16	1 25	25 1	1 56	1 39	0 58	8 37	1 21	13 0	2 19	24 1	0 23	2 45	1 46	3 33	14 21	10 32	10 48	17 28			n.a.
S 7	15 39	14 38	1 25	19 57	1 33	25 9	1 58	1 57	0 58	8 34	1 21	12 58	2 19	24 1	0 23	2 44	1 46	3 33	14 21	10 33	10 49	17 27			n.a.
S 8	15 56	11 42	0 23	20 35	1 39	25 17	1 59	2 14	0 57	8 32	1 21	12 57	2 19	24 1	0 23	2 44	1 46	3 33	14 21	10 32	10 51	17 26			n.a.
M 9	16 14	8 15	0s42	21 11	1 45	25 23	2 0	2 32	0 57	8 29	1 21	12 56	2 19	24 1	0 23	2 43	1 46	3 32	14 22	10 32	10 52	17 25			n.a.
T 10	16 31	4 22	1 45	21 44	1 51	25 29	2 2	2 50	0 57	8 27	1 20	12 54	2 19	24 1	0 23	2 43	1 46	3 32	14 22	10 33	10 53	17 25			n.a.
W11	16 48	0 12	2 45	22 15	1 55	25 34	2 3	3 8	0 56	8 25	1 20	12 53	2 19	24 1	0 23	2 42	1 46	3 31	14 22	10 35	10 54	17 24			n.a.
T 12	17 4	4n 5	3 38	22 43	1 59	25 39	2 4	3 25	0 56	8 23	1 20	12 52	2 19	24 1	0 23	2 41	1 46	3 31	14 22	10 37	10 55	17 23			n.a.
F 13	17 21	8 18	4 21	23 9	2 3	25 42	2 5	3 43	0 55	8 20	1 20	12 51	2 19	24 1	0 23	2 41	1 46	3 31	14 22	10 40	10 56	17 22			n.a.
S 14	17 37	12 11	4 49	23 32	2 5	25 45	2 6	4 0	0 55	8 18	1 20	12 49	2 18	24 1	0 23	2 40	1 46	3 30	14 22	10 44	10 58	17 22			n.a.
S 15	17 52	15 29	5 1	23 53	2 7	25 48	2 6	4 18	0 55	8 16	1 19	12 48	2 18	24 1	0 23	2 40	1 46	3 30	14 22	10 48	10 59	17 21			n.a.
M16	18 8	17 54	4 54	24 11	2 8	25 49	2 7	4 35	0 54	8 14	1 19	12 47	2 18	24 1	0 23	2 39	1 46	3 30	14 22	10 52	11 0	17 20			n.a.
T 17	18 23	19 13	4 29	24 27	2 8	25 50	2 8	4 53	0 54	8 12	1 19	12 45	2 18	24 2	0 23	2 38	1 46	3 29	14 22	10 55	11 1	17 19			n.a.
W18	18 38	19 17	3 47	24 40	2 8	25 50	2 8	5 10	0 53	8 10	1 19	12 44	2 18	24 2	0 23	2 38	1 47	3 29	14 22	10 58	11 2	17 19			n.a.
T 19	18 52	18 6	2 50	24 52	2 7	25 50	2 9	5 27	0 53	8 8	1 19	12 43	2 18	24 2	0 23	2 37	1 47	3 29	14 22	10 59	11 3	17 18			n.a.
F 20	19 7	15 47	1 43	25 1	2 5	25 48	2 9	5 44	0 52	8 6	1 18	12 42	2 18	24 2	0 23	2 37	1 47	3 28	14 23	11 0	11 4	17 17			n.a.
S 21	19 21	12 32	0 30	25 8	2 3	25 46	2 9	6 2	0 52	8 4	1 18	12 41	2 18	24 2	0 23	2 36	1 47	3 28	14 23	11 0	11 6	17 16			n.a.
S 22	19 34	8 36	0n44	25 13	2 0	25 44	2 10	6 19	0 51	8 2	1 18	12 39	2 18	24 2	0 23	2 36	1 47	3 28	14 23	11 0	11 7	17 16			n.a.
M23	19 48	4 16	1 54	25 17	1 56	25 40	2 10	6 36	0 51	8 1	1 18	12 38	2 17	24 2	0 23	2 35	1 47	3 27	14 23	11 0	11 8	17 15			n.a.
T 24	20 1	0s14	2 57	25 18	1 51	25 36	2 10	6 52	0 50	7 59	1 17	12 37	2 17	24 2	0 23	2 35	1 47	3 27	14 23	11 2	11 9	17 14			n.a.
W25	20 13	4 40	3 49	25 18	1 46	25 31	2 9	7 9	0 50	7 57	1 17	12 36	2 17	24 2	0 23	2 34	1 47	3 27	14 23	11 4	11 10	17 13			n.a.
T 26	20 26	8 49	4 27	25 16	1 40	25 26	2 9	7 26	0 49	7 56	1 17	12 35	2 17	24 2	0 23	2 34	1 47	3 26	14 23	11 7	11 11	17 12			n.a.
F 27	20 38	12 29	4 52	25 12	1 34	25 20	2 9	7 42	0 49	7 54	1 17	12 34	2 17	24 2	0 23	2 34	1 47	3 26	14 23	11 11	11 12	17 12			n.a.
S 28	20 49	15 29	5 0	25 7	1 27	25 13	2 8	7 59	0 48	7 53	1 16	12 33	2 17	24 2	0 23	2 33	1 47	3 26	14 24	11 15	11 14	17 11			n.a.
S 29	21 1	17 42	4 54	25 1	1 19	25 5	2 8	8 15	0 48	7 51	1 16	12 31	2 17	24 2	0 23	2 33	1 47	3 26	14 24	11 20	11 15	17 10			n.a.
M30	21 12	19 3	4 34	24 53	1 11	24 57	2 7	8 32	0 47	7 50	1 16	12 30	2 17	24 2	0 23	2 32	1 47	3 25	14 24	11 24	11 16	17 9			n.a.
T 31	21n22	19s29	4n 1	24n44	1n 2	24n48	2n 6	8n48	0s47	7s49	1n16	12s29	2n16	24s 3	0s23	2s32	1s47	3s25	14s24	11n28	11n17	17s 8			n.a.

Julian Day Number = 1682826.5, Delta T = 03h14m34s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'28, Lahiri = - 5°24'27 Julian Calendar 1 May 106 BCE == Greg. Calendar 28 Apr. 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

JUNE 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 23 41	5♊57'07	19♉17	1♋38	17♋18	25♈ 0	22°R46	8°R53	3°R42	27♓48	25♈35	0°R14	0♍50	4♒31	n.a.	W 1
T 2	16 27 37	6°54'12	1♒11	2°38	18°26	25°43	22♎43	8♏50	3♉40	27°49	25°37	0♍ 9	0°46	4°38	n.a.	T 2
F 3	16 31 34	7°51'18	12°59	3°36	19°33	26°25	22°39	8°46	3°38	27°50	25°38	0° 6	0°43	4°44	n.a.	F 3
S 4	16 35 30	8°48'25	24°48	4°30	20°41	27° 7	22°36	8°43	3°36	27°51	25°39	0° 5	0°40	4°51	n.a.	S 4
S 5	16 39 27	9°45'31	6♓42	5°20	21°48	27°49	22°32	8°39	3°34	27°52	25°40	0° 5	0°37	4°58	n.a.	S 5
M 6	16 43 24	10°42'38	18°46	6° 7	22°55	28°31	22°29	8°36	3°32	27°53	25°41	0° 5	0°34	5° 4	n.a.	M 6
T 7	16 47 20	11°39'46	1♈ 7	6°51	24° 2	29°13	22°26	8°33	3°29	27°54	25°42	0° 4	0°31	5°11	n.a.	T 7
W 8	16 51 17	12°36'53	13°48	7°31	25° 9	29°55	22°24	8°29	3°27	27°55	25°43	0° 0	0°27	5°18	n.a.	W 8
T 9	16 55 13	13°34'01	26°54	8° 7	26°15	0♉37	22°21	8°26	3°25	27°55	25°44	29♌55	0°24	5°24	n.a.	T 9
F 10	16 59 10	14°31'10	10♉26	8°39	27°22	1°18	22°19	8°23	3°23	27°56	25°45	29°47	0°21	5°31	n.a.	F 10
S 11	17 3 6	15°28'19	24°25	9° 6	28°28	2° 0	22°16	8°20	3°21	27°57	25°46	29°37	0°18	5°38	n.a.	S 11
S 12	17 7 3	16°25'29	8♊46	9°30	29°34	2°42	22°14	8°17	3°18	27°58	25°46	29°26	0°15	5°44	n.a.	S 12
M13	17 10 59	17°22'39	23°26	9°49	0♌40	3°23	22°13	8°14	3°16	27°59	25°47	29°16	0°12	5°51	n.a.	M13
T 14	17 14 56	18°19'49	8♋14	10° 3	1°46	4° 5	22°11	8°11	3°14	27°59	25°48	29° 7	0° 8	5°58	n.a.	T 14
W15	17 18 53	19°17'00	23° 4	10°13	2°52	4°46	22° 9	8° 8	3°11	28° 0	25°49	29° 0	0° 5	6° 4	n.a.	W15
T 16	17 22 49	20°14'11	7♌48	10°18	3°58	5°27	22° 8	8° 6	3° 9	28° 1	25°50	28°56	0° 2	6°11	n.a.	T 16
F 17	17 26 46	21°11'22	22°20	10°R19	5° 3	6° 9	22° 7	8° 3	3° 7	28° 1	25°51	28°55	29♌59	6°18	n.a.	F 17
S 18	17 30 42	22° 8'33	6♍36	10°14	6° 8	6°50	22° 6	8° 0	3° 4	28° 2	25°52	28°D55	29°56	6°24	n.a.	S 18
S 19	17 34 39	23° 5'45	20°35	10° 5	7°13	7°31	22° 5	7°58	3° 2	28° 2	25°53	28°R55	29°52	6°31	n.a.	S 19
M20	17 38 35	24° 2'56	4♎17	9°50	8°18	8°12	22° 5	7°55	3° 0	28° 3	25°53	28°55	29°49	6°38	n.a.	M20
T 21	17 42 32	25° 0'08	17°43	9°31	9°22	8°53	22° 4	7°53	2°57	28° 3	25°54	28°53	29°46	6°44	n.a.	T 21
W22	17 46 28	25°57'21	0♏54	9° 8	10°26	9°34	22° 4	7°51	2°55	28° 4	25°55	28°48	29°43	6°51	n.a.	W22
T 23	17 50 25	26°54'33	13°52	8°40	11°31	10°14	22°D 4	7°49	2°53	28° 4	25°56	28°41	29°40	6°58	n.a.	T 23
F 24	17 54 22	27°51'47	26°37	8° 9	12°34	10°55	22° 4	7°47	2°50	28° 5	25°56	28°32	29°37	7° 4	n.a.	F 24
S 25	17 58 18	28°49'01	9♐10	7°33	13°38	11°36	22° 5	7°45	2°48	28° 5	25°57	28°22	29°33	7°11	n.a.	S 25
S 26	18 2 15	29°46'15	21°33	6°55	14°41	12°16	22° 5	7°43	2°45	28° 5	25°58	28°11	29°30	7°18	n.a.	S 26
M27	18 6 11	0♋43'31	3♉45	6°15	15°45	12°57	22° 6	7°41	2°43	28° 6	25°58	28° 2	29°27	7°24	n.a.	M27
T 28	18 10 8	1°40'47	15°48	5°32	16°47	13°37	22° 7	7°39	2°41	28° 6	25°59	27°53	29°24	7°31	n.a.	T 28
W29	18 14 4	2°38'04	27°43	4°49	17°50	14°18	22° 8	7°38	2°38	28° 6	26° 0	27°47	29°21	7°38	n.a.	W29
T 30	18 18 1	3♋35'22	9♒33	4♋ 5	18♌52	14♉58	22♎ 9	7♏36	2♉36	28♓ 6	26♈ 0	27♌43	29♌18	7♒44	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21n32	19s 2	3n18	24n34	0n53	24n39	2n 6	9n 4	0s46	7s47	1n15	12s28	2n16	24s 3	0s23	2s31	1s47	3s25	14s24	11n31	11n18	17s 8		n.a.
T 2	21 42	17 44	2 27	24 23	0 43	24 29	2 5	9 20	0 46	7 46	1 15	12 27	2 16	24 3	0 23	2 31	1 47	3 25	14 24	11 33	11 19	17 7		n.a.
F 3	21 52	15 40	1 29	24 12	0 32	24 18	2 4	9 36	0 45	7 45	1 15	12 26	2 16	24 3	0 23	2 31	1 47	3 24	14 25	11 34	11 20	17 6		n.a.
S 4	22 1	12 58	0 28	23 59	0 21	24 7	2 2	9 52	0 45	7 44	1 14	12 25	2 16	24 3	0 23	2 30	1 48	3 24	14 25	11 34	11 21	17 5		n.a.
S 5	22 10	9 42	0s35	23 45	0 10	23 55	2 1	10 8	0 44	7 43	1 14	12 24	2 16	24 3	0 24	2 30	1 48	3 24	14 25	11 34	11 23	17 4		n.a.
M 6	22 18	5 59	1 38	23 31	0s 2	23 42	2 0	10 23	0 43	7 42	1 14	12 23	2 15	24 3	0 24	2 30	1 48	3 24	14 25	11 34	11 24	17 3		n.a.
T 7	22 26	1 57	2 37	23 17	0 15	23 29	1 58	10 39	0 43	7 41	1 14	12 23	2 15	24 3	0 24	2 29	1 48	3 24	14 25	11 34	11 25	17 3		n.a.
W 8	22 34	2n17	3 30	23 2	0 28	23 15	1 56	10 54	0 42	7 41	1 13	12 22	2 15	24 3	0 24	2 29	1 48	3 24	14 25	11 36	11 26	17 2		n.a.
T 9	22 41	6 32	4 14	22 46	0 41	23 0	1 55	11 10	0 42	7 40	1 13	12 21	2 15	24 3	0 24	2 29	1 48	3 23	14 26	11 38	11 27	17 1		n.a.
F 10	22 48	10 36	4 45	22 30	0 55	22 46	1 53	11 25	0 41	7 39	1 13	12 20	2 15	24 3	0 24	2 29	1 48	3 23	14 26	11 41	11 28	17 0		n.a.
S 11	22 54	14 13	5 1	22 14	1 9	22 30	1 51	11 40	0 41	7 39	1 13	12 19	2 14	24 3	0 24	2 28	1 48	3 23	14 26	11 44	11 29	16 59		n.a.
S 12	23 0	17 6	4 58	21 59	1 23	22 14	1 49	11 55	0 40	7 38	1 12	12 18	2 14	24 3	0 24	2 28	1 48	3 23	14 26	11 48	11 31	16 58		n.a.
M13	23 6	18 57	4 36	21 43	1 38	21 57	1 46	12 10	0 39	7 38	1 12	12 18	2 14	24 4	0 24	2 28	1 48	3 23	14 26	11 52	11 32	16 58		n.a.
T 14	23 11	19 32	3 55	21 27	1 53	21 40	1 44	12 25	0 39	7 37	1 12	12 17	2 14	24 4	0 24	2 28	1 48	3 23	14 27	11 55	11 33	16 57		n.a.
W15	23 16	18 47	2 58	21 11	2 7	21 23	1 41	12 39	0 38	7 37	1 11	12 16	2 14	24 4	0 24	2 27	1 48	3 23	14 27	11 57	11 34	16 56		n.a.
T 16	23 20	16 45	1 50	20 56	2 22	21 5	1 39	12 54	0 37	7 37	1 11	12 15	2 13	24 4	0 24	2 27	1 48	3 22	14 27	11 58	11 35	16 55		n.a.
F 17	23 25	13 40	0 35	20 42	2 37	20 46	1 36	13 8	0 37	7 37	1 11	12 15	2 13	24 4	0 24	2 27	1 48	3 22	14 27	11 59	11 36	16 54		n.a.
S 18	23 28	9 49	0n41	20 27	2 51	20 27	1 33	13 23	0 36	7 37	1 11	12 14	2 13	24 4	0 24	2 27	1 48	3 22	14 28	11 59	11 37	16 53		n.a.
S 19	23 31	5 30	1 53	20 14	3 6	20 8	1 30	13 37	0 36	7 37	1 10	12 14	2 13	24 4	0 24	2 27	1 48	3 22	14 28	11 59	11 38	16 52		n.a.
M20	23 34	0 59	2 57	20 1	3 19	19 48	1 27	13 51	0 35	7 37	1 10	12 13	2 13	24 4	0 24	2 26	1 49	3 22	14 28	11 59	11 40	16 51		n.a.
T 21	23 37	3s29	3 50	19 49	3 33	19 27	1 24	14 5	0 34	7 37	1 10	12 13	2 12	24 4	0 24	2 26	1 49	3 22	14 28	12 0	11 41	16 51		n.a.
W22	23 39	7 43	4 29	19 38	3 45	19 6	1 21	14 18	0 34	7 37	1 9	12 12	2 12	24 4	0 24	2 26	1 49	3 22	14 28	12 1	11 42	16 50		n.a.
T 23	23 40	11 30	4 54	19 29	3 57	18 45	1 17	14 32	0 33	7 37	1 9	12 12	2 12	24 4	0 24	2 26	1 49	3 22	14 29	12 4	11 43	16 49		n.a.
F 24	23 41	14 41	5 4	19 20	4 8	18 24	1 13	14 45	0 32	7 38	1 9	12 11	2 12	24 4	0 24	2 26	1 49	3 22	14 29	12 7	11 44	16 48		n.a.
S 25	23 42	17 9	4 59	19 12	4 17	18 2	1 10	14 59	0 32	7 38	1 9	12 11	2 11	24 4	0 24	2 26	1 49	3 22	14 29	12 10	11 45	16 47		n.a.
S 26	23 42	18 47	4 40	19 6	4 26	17 39	1 6	15 12	0 31	7 38	1 8	12 10	2 11	24 4	0 24	2 26	1 49	3 22	14 29	12 14	11 46	16 46		n.a.
M27	23 42	19 31	4 8	19 1	4 33	17 17	1 2	15 25	0 30	7 39	1 8	12 10	2 11	24 4	0 24	2 26	1 49	3 22	14 30	12 18	11 47	16 45		n.a.
T 28	23 42	19 22	3 25	18 57	4 38	16 54	0 58	15 38	0 30	7 40	1 8	12 10	2 11	24 4	0 24	2 26	1 49	3 22	14 30	12 20	11 49	16 44		n.a.
W29	23 41	18 20	2 34	18 55	4 42	16 30	0 53	15 51	0 29	7 40	1 7	12 9	2 10	24 5	0 24	2 26	1 49	3 22	14 30	12 23	11 50	16 43		n.a.
T 30	23n39	16s31	1n36	18n55	4s44	16n 7	0n49	16n 3	0s28	7s41	1n 7	12s 9	2n10	24s 5	0s24	2s26	1s49	3s22	14s30	12n24	11n51	16s42		n.a.

Julian Day Number = 1682857.5, Delta T = 03h14m33s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'24, Lahiri = - 5°24'23 Julian Calendar 1 June 106 BCE == Greg. Calendar 29 May 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

JULY 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 21 58	4♋32'41	21♒20	3°R21	19♌54	15♉38	22♎10	7°R35	2°R33	28♓ 6	26♈ 1	27°R41	29♌14	7♒51	n.a.	F 1
S 2	18 25 54	5°30'01	3♓ 8	2♋39	20°56	16°18	22°12	7♏33	2♑31	28° 6	26° 2	27°D41	29°11	7°58	n.a.	S 2
S 3	18 29 51	6°27'23	15° 2	1°58	21°58	16°58	22°14	7°32	2°29	28° 7	26° 2	27♌42	29° 8	8° 4	n.a.	S 3
M 4	18 33 47	7°24'45	27° 5	1°21	22°59	17°38	22°16	7°31	2°26	28° 7	26° 3	27°43	29° 5	8°11	n.a.	M 4
T 5	18 37 44	8°22'09	9♈25	0°47	24° 0	18°18	22°18	7°30	2°24	28°R 7	26° 3	27°R43	29° 2	8°17	n.a.	T 5
W 6	18 41 40	9°19'35	22° 4	0°17	25° 0	18°58	22°20	7°29	2°21	28° 7	26° 4	27°42	28°58	8°24	n.a.	W 6
T 7	18 45 37	10°17'01	5♉ 8	29♊52	26° 1	19°38	22°23	7°28	2°19	28° 7	26° 4	27°40	28°55	8°31	n.a.	T 7
F 8	18 49 33	11°14'29	18°39	29°32	27° 1	20°17	22°25	7°27	2°17	28° 6	26° 5	27°35	28°52	8°37	n.a.	F 8
S 9	18 53 30	12°11'59	2♊39	29°19	28° 0	20°57	22°28	7°26	2°14	28° 6	26° 5	27°29	28°49	8°44	n.a.	S 9
S 10	18 57 27	13° 9'30	17° 6	29°11	29° 0	21°36	22°31	7°26	2°12	28° 6	26° 6	27°23	28°46	8°51	n.a.	S 10
M11	19 1 23	14° 7'02	1♋55	29°D10	29°58	22°16	22°34	7°25	2°10	28° 6	26° 6	27°16	28°43	8°57	n.a.	M11
T 12	19 5 20	15° 4'36	16°57	29°16	0♍57	22°55	22°38	7°25	2° 7	28° 6	26° 6	27°11	28°39	9° 4	n.a.	T 12
W13	19 9 16	16° 2'11	2♌ 5	29°28	1°55	23°34	22°41	7°25	2° 5	28° 6	26° 7	27° 7	28°36	9°11	n.a.	W13
T 14	19 13 13	16°59'47	17° 8	29°47	2°53	24°14	22°45	7°24	2° 3	28° 5	26° 7	27° 5	28°33	9°17	n.a.	T 14
F 15	19 17 9	17°57'24	1♍58	0♋14	3°50	24°53	22°49	7°24	2° 0	28° 5	26° 7	27°D 4	28°30	9°24	n.a.	F 15
S 16	19 21 6	18°55'03	16°29	0°48	4°47	25°32	22°53	7°D24	1°58	28° 5	26° 8	27° 5	28°27	9°31	n.a.	S 16
S 17	19 25 2	19°52'42	0♎38	1°28	5°44	26°10	22°57	7°24	1°56	28° 4	26° 8	27° 7	28°24	9°37	n.a.	S 17
M18	19 28 59	20°50'22	14°25	2°15	6°39	26°49	23° 1	7°24	1°54	28° 4	26° 8	27°R 8	28°20	9°44	n.a.	M18
T 19	19 32 56	21°48'04	27°49	3° 9	7°35	27°28	23° 6	7°25	1°51	28° 4	26° 9	27° 8	28°17	9°51	n.a.	T 19
W20	19 36 52	22°45'47	10♏54	4°10	8°30	28° 7	23°11	7°25	1°49	28° 3	26° 9	27° 6	28°14	9°57	n.a.	W20
T 21	19 40 49	23°43'31	23°40	5°17	9°24	28°45	23°16	7°25	1°47	28° 3	26° 9	27° 3	28°11	10° 4	n.a.	T 21
F 22	19 44 45	24°41'16	6♐12	6°30	10°18	29°24	23°21	7°26	1°45	28° 2	26° 9	26°59	28° 8	10°11	n.a.	F 22
S 23	19 48 42	25°39'03	18°32	7°49	11°12	0♊ 2	23°26	7°27	1°43	28° 1	26° 9	26°54	28° 4	10°17	n.a.	S 23
S 24	19 52 38	26°36'51	0♑41	9°13	12° 4	0°40	23°31	7°27	1°41	28° 1	26° 9	26°49	28° 1	10°24	n.a.	S 24
M25	19 56 35	27°34'40	12°42	10°42	12°57	1°18	23°37	7°28	1°39	28° 0	26°10	26°44	27°58	10°31	n.a.	M25
T 26	20 0 31	28°32'31	24°37	12°16	13°48	1°57	23°42	7°29	1°36	28° 0	26°10	26°40	27°55	10°37	n.a.	T 26
W27	20 4 28	29°30'24	6♒27	13°55	14°39	2°35	23°48	7°30	1°34	27°59	26°10	26°37	27°52	10°44	n.a.	W27
T 28	20 8 25	0♌28'18	18°15	15°37	15°29	3°12	23°54	7°31	1°32	27°58	26°10	26°35	27°49	10°51	n.a.	T 28
F 29	20 12 21	1°26'14	0♓ 2	17°22	16°19	3°50	24° 0	7°32	1°30	27°58	26°10	26°D35	27°45	10°57	n.a.	F 29
S 30	20 16 18	2°24'12	11°53	19°10	17° 7	4°28	24° 6	7°34	1°28	27°57	26°R10	26°36	27°42	11° 4	n.a.	S 30
S 31	20 20 14	3♌22'12	23♓49	21♋ 1	17♍56	5♊ 6	24♎13	7♏35	1♑27	27♓56	26♈10	26♌37	27♌39	11♒10	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n38	14s 1	0n34	18n55	4s44	15n43	0n45	16n16	0s28	7s42	1n 7	12s 9	2n10	24s 5	0s24	2s26	1s49	3s22	14s31	12n25	11n52	16s42		n.a.
S 2	23 35	10 55	0s29	18 58	4 43	15 18	0 40	16 28	0 27	7 43	1 7	12 8	2 10	24 5	0 24	2 26	1 49	3 22	14 31	12 25	11 53	16 41		n.a.
S 3	23 33	7 23	1 32	19 2	4 40	14 54	0 35	16 40	0 26	7 44	1 6	12 8	2 10	24 5	0 24	2 26	1 49	3 22	14 31	12 24	11 54	16 40		n.a.
M 4	23 30	3 29	2 32	19 7	4 35	14 29	0 30	16 52	0 26	7 45	1 6	12 8	2 9	24 5	0 24	2 26	1 49	3 22	14 31	12 24	11 55	16 39		n.a.
T 5	23 26	0n37	3 26	19 14	4 28	14 4	0 25	17 4	0 25	7 46	1 6	12 8	2 9	24 5	0 24	2 26	1 50	3 22	14 32	12 24	11 56	16 38		n.a.
W 6	23 22	4 48	4 12	19 22	4 20	13 39	0 20	17 16	0 24	7 47	1 5	12 8	2 9	24 5	0 24	2 26	1 50	3 22	14 32	12 24	11 58	16 37		n.a.
T 7	23 18	8 53	4 46	19 31	4 11	13 13	0 15	17 28	0 23	7 48	1 5	12 8	2 9	24 5	0 24	2 26	1 50	3 22	14 32	12 25	11 59	16 36		n.a.
F 8	23 13	12 40	5 5	19 42	4 0	12 48	0 10	17 39	0 23	7 49	1 5	12 8	2 8	24 5	0 24	2 26	1 50	3 22	14 32	12 27	12 0	16 35		n.a.
S 9	23 8	15 53	5 8	19 54	3 48	12 22	0 4	17 50	0 22	7 51	1 5	12 8	2 8	24 5	0 24	2 26	1 50	3 22	14 33	12 29	12 1	16 34		n.a.
S 10	23 3	18 14	4 51	20 7	3 35	11 56	0s 2	18 2	0 21	7 52	1 4	12 8	2 8	24 5	0 24	2 26	1 50	3 22	14 33	12 31	12 2	16 33		n.a.
M11	22 57	19 27	4 15	20 21	3 21	11 29	0 7	18 13	0 20	7 53	1 4	12 8	2 8	24 5	0 24	2 26	1 50	3 23	14 33	12 33	12 3	16 32		n.a.
T 12	22 51	19 18	3 20	20 36	3 7	11 3	0 13	18 23	0 20	7 55	1 4	12 8	2 7	24 5	0 24	2 27	1 50	3 23	14 33	12 35	12 4	16 31		n.a.
W13	22 44	17 47	2 12	20 51	2 51	10 36	0 19	18 34	0 19	7 56	1 3	12 8	2 7	24 5	0 24	2 27	1 50	3 23	14 34	12 37	12 5	16 30		n.a.
T 14	22 37	15 1	0 54	21 7	2 36	10 10	0 25	18 45	0 18	7 58	1 3	12 8	2 7	24 5	0 24	2 27	1 50	3 23	14 34	12 37	12 6	16 29		n.a.
F 15	22 29	11 18	0n27	21 23	2 20	9 43	0 32	18 55	0 17	8 0	1 3	12 9	2 7	24 5	0 24	2 27	1 50	3 23	14 34	12 37	12 8	16 28		n.a.
S 16	22 21	6 59	1 44	21 39	2 4	9 16	0 38	19 5	0 17	8 2	1 3	12 9	2 6	24 5	0 24	2 27	1 50	3 23	14 35	12 37	12 9	16 27		n.a.
S 17	22 13	2 23	2 53	21 55	1 47	8 49	0 45	19 15	0 16	8 3	1 2	12 9	2 6	24 5	0 24	2 27	1 50	3 23	14 35	12 37	12 10	16 26		n.a.
M18	22 4	2s13	3 50	22 10	1 31	8 22	0 51	19 25	0 15	8 5	1 2	12 9	2 6	24 5	0 24	2 28	1 50	3 23	14 35	12 36	12 11	16 25		n.a.
T 19	21 55	6 35	4 33	22 25	1 15	7 55	0 58	19 35	0 14	8 7	1 2	12 10	2 6	24 5	0 24	2 28	1 50	3 24	14 35	12 36	12 12	16 25		n.a.
W20	21 46	10 31	5 0	22 39	0 59	7 28	1 5	19 44	0 13	8 9	1 1	12 10	2 5	24 5	0 24	2 28	1 50	3 24	14 36	12 37	12 13	16 24		n.a.
T 21	21 36	13 52	5 12	22 52	0 44	7 1	1 12	19 54	0 13	8 11	1 1	12 10	2 5	24 6	0 24	2 28	1 51	3 24	14 36	12 38	12 14	16 23		n.a.
F 22	21 26	16 31	5 8	23 4	0 29	6 34	1 19	20 3	0 12	8 13	1 1	12 11	2 5	24 6	0 24	2 29	1 51	3 24	14 36	12 39	12 15	16 22		n.a.
S 23	21 15	18 23	4 51	23 14	0 14	6 7	1 26	20 12	0 11	8 16	1 1	12 11	2 5	24 6	0 24	2 29	1 51	3 24	14 36	12 41	12 17	16 21		n.a.
S 24	21 4	19 22	4 20	23 22	0 1	5 40	1 34	20 21	0 10	8 18	1 0	12 12	2 4	24 6	0 24	2 29	1 51	3 25	14 37	12 43	12 18	16 20		n.a.
M25	20 53	19 29	3 38	23 29	0n12	5 13	1 41	20 30	0 9	8 20	1 0	12 12	2 4	24 6	0 24	2 30	1 51	3 25	14 37	12 44	12 19	16 19		n.a.
T 26	20 41	18 42	2 47	23 33	0 25	4 46	1 49	20 38	0 9	8 22	1 0	12 13	2 4	24 6	0 24	2 30	1 51	3 25	14 37	12 46	12 20	16 18		n.a.
W27	20 29	17 7	1 49	23 34	0 36	4 19	1 57	20 47	0 8	8 25	1 0	12 13	2 4	24 6	0 24	2 30	1 51	3 25	14 38	12 47	12 21	16 17		n.a.
T 28	20 16	14 48	0 46	23 34	0 47	3 52	2 5	20 55	0 7	8 27	0 59	12 14	2 3	24 6	0 24	2 31	1 51	3 26	14 38	12 47	12 22	16 16		n.a.
F 29	20 4	11 53	0s19	23 30	0 57	3 26	2 13	21 3	0 6	8 30	0 59	12 15	2 3	24 6	0 24	2 31	1 51	3 26	14 38	12 48	12 23	16 15		n.a.
S 30	19 51	8 28	1 23	23 24	1 6	2 59	2 21	21 11	0 5	8 32	0 59	12 15	2 3	24 6	0 24	2 31	1 51	3 26	14 38	12 47	12 24	16 14		n.a.
S 31	19n37	4s41	2s25	23n16	1n14	2n33	2s29	21n19	0s 4	8s35	0n59	12s16	2n 2	24s 6	0s24	2s32	1s51	3s26	14s39	12n47	12n25	16s13		n.a.

Julian Day Number = 1682887.5, Delta T = 03h14m32s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'19, Lahiri = - 5°24'19 Julian Calendar 1 July 106 BCE == Greg. Calendar 28 June 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

AUGUST 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 24 11	4♌20'13	5♈56	22♋53	18♍43	5♊43	24♎19	7♏37	1°R25	27°R55	26°R10	26♌39	27♌36	11♒17	n.a.	M 1
T 2	20 28 7	5°18'17	18°16	24°47	19°29	6°21	24°26	7°38	1♑23	27♓54	26♈10	26°40	27°33	11°24	n.a.	T 2
W 3	20 32 4	6°16'22	0♉53	26°43	20°15	6°58	24°33	7°40	1°21	27°53	26°10	26°R41	27°30	11°30	n.a.	W 3
T 4	20 36 0	7°14'30	13°53	28°39	21° 0	7°35	24°40	7°42	1°19	27°52	26°10	26°41	27°26	11°37	n.a.	T 4
F 5	20 39 57	8°12'40	27°19	0♌36	21°44	8°12	24°47	7°44	1°17	27°52	26°10	26°40	27°23	11°44	n.a.	F 5
S 6	20 43 53	9°10'52	11♊11	2°33	22°27	8°50	24°54	7°46	1°16	27°51	26° 9	26°39	27°20	11°50	n.a.	S 6
S 7	20 47 50	10° 9'06	25°30	4°30	23° 9	9°26	25° 1	7°48	1°14	27°50	26° 9	26°37	27°17	11°57	n.a.	S 7
M 8	20 51 47	11° 7'22	10♋13	6°26	23°50	10° 3	25° 9	7°50	1°12	27°49	26° 9	26°35	27°14	12° 4	n.a.	M 8
T 9	20 55 43	12° 5'41	25°14	8°23	24°30	10°40	25°16	7°52	1°11	27°48	26° 9	26°33	27°10	12°10	n.a.	T 9
W10	20 59 40	13° 4'01	10♌25	10°18	25° 8	11°17	25°24	7°54	1° 9	27°46	26° 9	26°32	27° 7	12°17	n.a.	W10
T 11	21 3 36	14° 2'23	25°37	12°14	25°46	11°53	25°32	7°57	1° 7	27°45	26° 9	26°D31	27° 4	12°24	n.a.	T 11
F 12	21 7 33	15° 0'47	10♍39	14° 8	26°23	12°30	25°40	7°59	1° 6	27°44	26° 8	26°32	27° 1	12°30	n.a.	F 12
S 13	21 11 29	15°59'13	25°25	16° 1	26°58	13° 6	25°48	8° 2	1° 4	27°43	26° 8	26°32	26°58	12°37	n.a.	S 13
S 14	21 15 26	16°57'40	9♎48	17°54	27°32	13°42	25°56	8° 5	1° 3	27°42	26° 8	26°33	26°55	12°44	n.a.	S 14
M15	21 19 22	17°56'09	23°45	19°45	28° 5	14°18	26° 5	8° 7	1° 2	27°41	26° 7	26°34	26°51	12°50	n.a.	M15
T 16	21 23 19	18°54'40	7♏15	21°36	28°36	14°54	26°13	8°10	1° 0	27°40	26° 7	26°34	26°48	12°57	n.a.	T 16
W17	21 27 16	19°53'13	20°21	23°25	29° 6	15°30	26°22	8°13	0°59	27°38	26° 7	26°R35	26°45	13° 4	n.a.	W17
T 18	21 31 12	20°51'48	3♐ 6	25°14	29°34	16° 6	26°31	8°16	0°58	27°37	26° 6	26°34	26°42	13°10	n.a.	T 18
F 19	21 35 9	21°50'24	15°32	27° 1	0♎ 1	16°41	26°40	8°19	0°56	27°36	26° 6	26°34	26°39	13°17	n.a.	F 19
S 20	21 39 5	22°49'02	27°43	28°47	0°26	17°17	26°49	8°23	0°55	27°35	26° 6	26°34	26°35	13°23	n.a.	S 20
S 21	21 43 2	23°47'42	9♑44	0♍33	0°50	17°52	26°58	8°26	0°54	27°33	26° 5	26°33	26°32	13°30	n.a.	S 21
M22	21 46 58	24°46'23	21°37	2°17	1°12	18°28	27° 7	8°29	0°53	27°32	26° 5	26°33	26°29	13°37	n.a.	M22
T 23	21 50 55	25°45'07	3♒27	4° 0	1°32	19° 3	27°16	8°33	0°52	27°30	26° 4	26°33	26°26	13°43	n.a.	T 23
W24	21 54 51	26°43'53	15°15	5°43	1°50	19°38	27°26	8°36	0°51	27°29	26° 4	26°D33	26°23	13°50	n.a.	W24
T 25	21 58 48	27°42'40	27° 4	7°24	2° 6	20°13	27°35	8°40	0°50	27°28	26° 3	26°R33	26°20	13°57	n.a.	T 25
F 26	22 2 45	28°41'30	8♓56	9° 4	2°20	20°48	27°45	8°44	0°49	27°26	26° 3	26°33	26°16	14° 3	n.a.	F 26
S 27	22 6 41	29°40'22	20°54	10°43	2°33	21°22	27°55	8°47	0°48	27°25	26° 2	26°32	26°13	14°10	n.a.	S 27
S 28	22 10 38	0♍39'16	2♈59	12°22	2°43	21°57	28° 5	8°51	0°47	27°23	26° 2	26°32	26°10	14°17	n.a.	S 28
M29	22 14 34	1°38'12	15°14	13°59	2°51	22°31	28°15	8°55	0°46	27°22	26° 1	26°31	26° 7	14°23	n.a.	M29
T 30	22 18 31	2°37'11	27°41	15°36	2°56	23° 5	28°25	8°59	0°46	27°20	26° 0	26°31	26° 4	14°30	n.a.	T 30
W31	22 22 27	3♍36'12	10♉24	17♍12	3♎ 0	23♊40	28♎35	9♏ 3	0♑45	27♓19	26♈ 0	26♌30	26♌ 1	14♒37	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	19n23	0s41	3s21	23n 4	1n21	2n 6	2s37	21n26	0s 4	8s38	0n58	12s17	2n 2	24s 6	0s24	2s32	1s51	3s27	14s39	12n46	12n26	16s12			n.a.
T 2	19 9	3n25	4 8	22 50	1 28	1 40	2 46	21 34	0 3	8 40	0 58	12 17	2 2	24 6	0 24	2 32	1 51	3 27	14 39	12 46	12 28	16 11			n.a.
W 3	18 55	7 28	4 45	22 34	1 33	1 14	2 54	21 41	0 2	8 43	0 58	12 18	2 2	24 6	0 24	2 33	1 51	3 27	14 39	12 45	12 29	16 9			n.a.
T 4	18 40	11 17	5 9	22 15	1 37	0 49	3 3	21 48	0 1	8 46	0 58	12 19	2 1	24 6	0 24	2 33	1 51	3 27	14 40	12 45	12 30	16 8			n.a.
F 5	18 25	14 39	5 16	21 53	1 41	0 23	3 11	21 55	0 0	8 49	0 57	12 20	2 1	24 6	0 24	2 34	1 51	3 28	14 40	12 46	12 31	16 7			n.a.
S 6	18 9	17 19	5 6	21 30	1 44	0s 2	3 20	22 2	0n 1	8 52	0 57	12 21	2 1	24 6	0 24	2 34	1 51	3 28	14 40	12 46	12 32	16 6			n.a.
S 7	17 54	19 1	4 37	21 4	1 46	0 27	3 29	22 9	0 2	8 54	0 57	12 22	2 1	24 6	0 24	2 35	1 52	3 28	14 41	12 47	12 33	16 5			n.a.
M 8	17 38	19 30	3 49	20 36	1 47	0 51	3 38	22 15	0 3	8 57	0 57	12 23	2 1	24 6	0 24	2 35	1 52	3 29	14 41	12 48	12 34	16 4			n.a.
T 9	17 21	18 37	2 45	20 6	1 48	1 15	3 47	22 21	0 4	9 1	0 56	12 24	2 0	24 6	0 24	2 35	1 52	3 29	14 41	12 48	12 35	16 3			n.a.
W10	17 5	16 25	1 28	19 35	1 48	1 39	3 56	22 27	0 4	9 4	0 56	12 25	2 0	24 6	0 24	2 36	1 52	3 29	14 41	12 49	12 36	16 2			n.a.
T 11	16 48	13 3	0 5	19 2	1 47	2 3	4 5	22 33	0 5	9 7	0 56	12 26	2 0	24 6	0 24	2 36	1 52	3 30	14 42	12 49	12 37	16 1			n.a.
F 12	16 31	8 51	1n18	18 28	1 46	2 26	4 15	22 39	0 6	9 10	0 56	12 27	2 0	24 6	0 24	2 37	1 52	3 30	14 42	12 49	12 39	16 0			n.a.
S 13	16 13	4 11	2 34	17 52	1 44	2 49	4 24	22 45	0 7	9 13	0 56	12 28	1 59	24 6	0 24	2 37	1 52	3 30	14 42	12 48	12 40	15 59			n.a.
S 14	15 56	0s35	3 38	17 15	1 42	3 11	4 34	22 50	0 8	9 16	0 55	12 29	1 59	24 6	0 24	2 38	1 52	3 31	14 42	12 48	12 41	15 58			n.a.
M15	15 38	5 11	4 27	16 37	1 39	3 33	4 43	22 55	0 9	9 20	0 55	12 30	1 59	24 6	0 24	2 38	1 52	3 31	14 43	12 48	12 42	15 57			n.a.
T 16	15 19	9 22	5 0	15 58	1 36	3 54	4 53	23 0	0 10	9 23	0 55	12 31	1 59	24 6	0 24	2 39	1 52	3 31	14 43	12 48	12 43	15 56			n.a.
W17	15 1	12 58	5 16	15 19	1 32	4 15	5 2	23 5	0 11	9 26	0 55	12 32	1 58	24 6	0 24	2 40	1 52	3 32	14 43	12 48	12 44	15 55			n.a.
T 18	14 42	15 51	5 16	14 38	1 28	4 35	5 12	23 10	0 12	9 30	0 54	12 33	1 58	24 6	0 24	2 40	1 52	3 32	14 43	12 48	12 45	15 54			n.a.
F 19	14 23	17 56	5 1	13 57	1 24	4 55	5 21	23 15	0 13	9 33	0 54	12 35	1 58	24 6	0 24	2 41	1 52	3 32	14 44	12 48	12 46	15 53			n.a.
S 20	14 4	19 9	4 32	13 15	1 19	5 13	5 31	23 19	0 14	9 37	0 54	12 36	1 58	24 6	0 24	2 41	1 52	3 33	14 44	12 48	12 47	15 52			n.a.
S 21	13 44	19 29	3 52	12 33	1 14	5 32	5 40	23 24	0 15	9 40	0 54	12 37	1 57	24 6	0 24	2 42	1 52	3 33	14 44	12 48	12 48	15 50			n.a.
M22	13 25	18 57	3 2	11 51	1 9	5 49	5 50	23 28	0 16	9 44	0 54	12 38	1 57	24 6	0 24	2 42	1 52	3 34	14 44	12 48	12 50	15 49			n.a.
T 23	13 5	17 34	2 5	11 8	1 3	6 6	5 59	23 32	0 17	9 47	0 53	12 40	1 57	24 6	0 24	2 43	1 52	3 34	14 45	12 48	12 51	15 48			n.a.
W24	12 44	15 27	1 2	10 25	0 58	6 22	6 9	23 36	0 18	9 51	0 53	12 41	1 57	24 6	0 24	2 43	1 52	3 34	14 45	12 48	12 52	15 47			n.a.
T 25	12 24	12 40	0s 3	9 41	0 52	6 37	6 18	23 39	0 19	9 55	0 53	12 43	1 57	24 6	0 24	2 44	1 52	3 35	14 45	12 48	12 53	15 46			n.a.
F 26	12 4	9 22	1 8	8 57	0 45	6 51	6 28	23 43	0 20	9 58	0 53	12 44	1 56	24 6	0 24	2 45	1 52	3 35	14 45	12 48	12 54	15 45			n.a.
S 27	11 43	5 39	2 11	8 14	0 39	7 4	6 37	23 46	0 21	10 2	0 53	12 45	1 56	24 6	0 24	2 45	1 52	3 35	14 46	12 48	12 55	15 44			n.a.
S 28	11 22	1 41	3 9	7 30	0 33	7 17	6 46	23 49	0 22	10 6	0 52	12 47	1 56	24 6	0 24	2 46	1 52	3 36	14 46	12 49	12 56	15 43			n.a.
M29	11 1	2n24	3 59	6 46	0 26	7 28	6 54	23 53	0 23	10 9	0 52	12 48	1 56	24 6	0 24	2 47	1 52	3 36	14 46	12 49	12 57	15 42			n.a.
T 30	10 39	6 26	4 38	6 2	0 19	7 38	7 3	23 56	0 24	10 13	0 52	12 50	1 55	24 6	0 24	2 47	1 53	3 37	14 46	12 49	12 58	15 41			n.a.
W31	10n18	10n16	5s 5	5n18	0n12	7s47	7s11	23n58	0n25	10s17	0n52	12s51	1n55	24s 6	0s24	2s48	1s53	3s37	14s47	12n49	12n59	15s39			n.a.

Julian Day Number = 1682918.5, Delta T = 03h14m31s
Ecliptic obliquity = 23°42'20, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'15, Lahiri = - 5°24'15 Julian Calendar 1 Aug. 106 BCE == Greg. Calendar 29 July 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

SEPTEMBER 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 26 24	4♍35'15	23♉24	18♍46	3°R 1	24♊14	28♎45	9♏ 7	0°R44	27°R17	25°R59	26°R30	25♌57	14♒43	n.a.	T 1
F 2	22 30 20	5°34'21	6♊44	20°20	3♎ 0	24°47	28°55	9°12	0♑44	27♓16	25♈58	26°D29	25°54	14°50	n.a.	F 2
S 3	22 34 17	6°33'29	20°26	21°53	2°56	25°21	29° 6	9°16	0°43	27°14	25°58	26♌30	25°51	14°57	n.a.	S 3
S 4	22 38 13	7°32'40	4♋31	23°26	2°51	25°55	29°17	9°20	0°43	27°13	25°57	26°30	25°48	15° 3	n.a.	S 4
M 5	22 42 10	8°31'53	18°58	24°57	2°42	26°28	29°27	9°25	0°42	27°11	25°56	26°31	25°45	15°10	n.a.	M 5
T 6	22 46 7	9°31'09	3♌43	26°28	2°32	27° 1	29°38	9°29	0°42	27°10	25°56	26°32	25°41	15°16	n.a.	T 6
W 7	22 50 3	10°30'27	18°42	27°57	2°19	27°35	29°49	9°34	0°41	27° 8	25°55	26°33	25°38	15°23	n.a.	W 7
T 8	22 54 0	11°29'47	3♍46	29°26	2° 3	28° 8	29°59	9°39	0°41	27° 6	25°54	26°R33	25°35	15°30	n.a.	T 8
F 9	22 57 56	12°29'09	18°47	0♎54	1°46	28°40	0♏11	9°43	0°41	27° 5	25°53	26°32	25°32	15°36	n.a.	F 9
S 10	23 1 53	13°28'34	3♎37	2°22	1°26	29°13	0°22	9°48	0°41	27° 3	25°53	26°30	25°29	15°43	n.a.	S 10
S 11	23 5 49	14°28'00	18° 7	3°48	1° 4	29°45	0°33	9°53	0°41	27° 2	25°52	26°28	25°26	15°50	n.a.	S 11
M12	23 9 46	15°27'28	2♏13	5°13	0°40	0♋18	0°44	9°58	0°40	27° 0	25°51	26°26	25°22	15°56	n.a.	M12
T 13	23 13 42	16°26'59	15°52	6°38	0°13	0°50	0°55	10° 3	0°D40	26°58	25°50	26°23	25°19	16° 3	n.a.	T 13
W14	23 17 39	17°26'31	29° 4	8° 2	29♍45	1°22	1° 7	10° 8	0°40	26°57	25°49	26°21	25°16	16°10	n.a.	W14
T 15	23 21 36	18°26'05	11♐52	9°24	29°15	1°54	1°18	10°13	0°40	26°55	25°48	26°20	25°13	16°16	n.a.	T 15
F 16	23 25 32	19°25'41	24°18	10°46	28°44	2°25	1°30	10°19	0°41	26°53	25°48	26°D20	25°10	16°23	n.a.	F 16
S 17	23 29 29	20°25'19	6♑28	12° 7	28°11	2°57	1°42	10°24	0°41	26°52	25°47	26°21	25° 6	16°30	n.a.	S 17
S 18	23 33 25	21°24'59	18°25	13°26	27°37	3°28	1°53	10°29	0°41	26°50	25°46	26°22	25° 3	16°36	n.a.	S 18
M19	23 37 22	22°24'40	0♒15	14°44	27° 2	3°59	2° 5	10°35	0°41	26°48	25°45	26°24	25° 0	16°43	n.a.	M19
T 20	23 41 18	23°24'23	12° 3	16° 1	26°26	4°30	2°17	10°40	0°41	26°47	25°44	26°26	24°57	16°50	n.a.	T 20
W21	23 45 15	24°24'09	23°51	17°17	25°50	5° 1	2°29	10°45	0°42	26°45	25°43	26°R27	24°54	16°56	n.a.	W21
T 22	23 49 11	25°23'56	5♓44	18°31	25°13	5°32	2°41	10°51	0°42	26°43	25°42	26°26	24°51	17° 3	n.a.	T 22
F 23	23 53 8	26°23'45	17°44	19°44	24°37	6° 2	2°53	10°57	0°43	26°42	25°41	26°24	24°47	17° 9	n.a.	F 23
S 24	23 57 4	27°23'36	29°53	20°55	24° 0	6°32	3° 5	11° 2	0°43	26°40	25°40	26°21	24°44	17°16	n.a.	S 24
S 25	0 1 1	28°23'29	12♈12	22° 4	23°24	7° 2	3°17	11° 8	0°44	26°38	25°39	26°16	24°41	17°23	n.a.	S 25
M26	0 4 58	29°23'25	24°43	23°10	22°49	7°32	3°29	11°14	0°44	26°37	25°38	26°11	24°38	17°29	n.a.	M26
T 27	0 8 54	0♎23'22	7♉27	24°15	22°15	8° 1	3°42	11°20	0°45	26°35	25°37	26° 5	24°35	17°36	n.a.	T 27
W28	0 12 51	1°23'22	20°23	25°17	21°42	8°31	3°54	11°26	0°46	26°33	25°36	25°59	24°32	17°43	n.a.	W28
T 29	0 16 47	2°23'24	3♊32	26°17	21°10	9° 0	4° 7	11°31	0°47	26°31	25°35	25°54	24°28	17°49	n.a.	T 29
F 30	0 20 44	3♎23'28	16♊56	27♎13	20♍40	9♋29	4♏19	11♏37	0♑47	26♓30	25♈34	25♌51	24♌25	17♒56	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n56	13n43	5s17	4n34	0n 5	7s55	7s20	24n 1	0n26	10s21	0n52	12s53	1n55	24s 6	0s24	2s48	1s53	3s38	14s47	12n49	13n 0	15s38		n.a.
F 2	9 34	16 32	5 13	3 51	0s 2	8 2	7 27	24 3	0 27	10 25	0 51	12 54	1 55	24 6	0 24	2 49	1 53	3 38	14 47	12 49	13 2	15 37		n.a.
S 3	9 12	18 32	4 50	3 7	0 9	8 7	7 35	24 6	0 28	10 29	0 51	12 56	1 55	24 6	0 24	2 50	1 53	3 38	14 47	12 49	13 3	15 36		n.a.
S 4	8 50	19 27	4 10	2 24	0 16	8 11	7 42	24 8	0 30	10 33	0 51	12 58	1 54	24 6	0 24	2 50	1 53	3 39	14 47	12 49	13 4	15 35		n.a.
M 5	8 28	19 9	3 14	1 41	0 23	8 14	7 49	24 10	0 31	10 37	0 51	12 59	1 54	24 6	0 24	2 51	1 53	3 39	14 48	12 49	13 5	15 34		n.a.
T 6	8 5	17 32	2 3	0 58	0 30	8 15	7 55	24 12	0 32	10 41	0 51	13 1	1 54	24 6	0 24	2 52	1 53	3 40	14 48	12 48	13 6	15 33		n.a.
W 7	7 43	14 42	0 43	0 15	0 38	8 15	8 0	24 14	0 33	10 45	0 50	13 2	1 54	24 6	0 24	2 52	1 53	3 40	14 48	12 48	13 7	15 31		n.a.
T 8	7 20	10 51	0n40	0s27	0 45	8 14	8 6	24 16	0 34	10 49	0 50	13 4	1 54	24 6	0 24	2 53	1 53	3 41	14 48	12 48	13 8	15 30		n.a.
F 9	6 57	6 19	2 0	1 9	0 52	8 11	8 10	24 17	0 35	10 53	0 50	13 6	1 53	24 6	0 24	2 54	1 53	3 41	14 48	12 49	13 9	15 29		n.a.
S 10	6 34	1 28	3 11	1 51	0 59	8 7	8 14	24 19	0 36	10 57	0 50	13 8	1 53	24 6	0 24	2 54	1 53	3 42	14 49	12 49	13 10	15 28		n.a.
S 11	6 11	3s22	4 8	2 32	1 6	8 1	8 17	24 20	0 38	11 1	0 50	13 9	1 53	24 6	0 24	2 55	1 53	3 42	14 49	12 50	13 11	15 27		n.a.
M12	5 48	7 52	4 48	3 13	1 13	7 53	8 20	24 21	0 39	11 5	0 50	13 11	1 53	24 6	0 24	2 56	1 53	3 42	14 49	12 51	13 12	15 26		n.a.
T 13	5 24	11 49	5 11	3 53	1 20	7 44	8 21	24 22	0 40	11 9	0 49	13 13	1 53	24 6	0 24	2 56	1 53	3 43	14 49	12 52	13 13	15 25		n.a.
W14	5 1	15 2	5 15	4 33	1 27	7 34	8 22	24 23	0 41	11 13	0 49	13 15	1 52	24 6	0 23	2 57	1 53	3 43	14 49	12 52	13 15	15 23		n.a.
T 15	4 37	17 26	5 4	5 13	1 34	7 22	8 23	24 24	0 42	11 18	0 49	13 16	1 52	24 6	0 23	2 58	1 53	3 44	14 49	12 53	13 16	15 22		n.a.
F 16	4 14	18 56	4 39	5 51	1 41	7 9	8 22	24 24	0 43	11 22	0 49	13 18	1 52	24 6	0 23	2 58	1 53	3 44	14 50	12 53	13 17	15 21		n.a.
S 17	3 50	19 31	4 2	6 29	1 48	6 54	8 20	24 25	0 45	11 26	0 49	13 20	1 52	24 6	0 23	2 59	1 53	3 45	14 50	12 52	13 18	15 20		n.a.
S 18	3 26	19 13	3 14	7 7	1 54	6 38	8 17	24 25	0 46	11 30	0 49	13 22	1 52	24 6	0 23	3 0	1 53	3 45	14 50	12 52	13 19	15 19		n.a.
M19	3 3	18 3	2 19	7 43	2 1	6 21	8 14	24 26	0 47	11 34	0 48	13 24	1 51	24 6	0 23	3 0	1 53	3 46	14 50	12 51	13 20	15 18		n.a.
T 20	2 39	16 7	1 18	8 19	2 7	6 2	8 10	24 26	0 48	11 39	0 48	13 26	1 51	24 6	0 23	3 1	1 53	3 46	14 50	12 51	13 21	15 16		n.a.
W21	2 15	13 30	0 14	8 54	2 13	5 43	8 4	24 26	0 50	11 43	0 48	13 28	1 51	24 6	0 23	3 2	1 53	3 47	14 50	12 50	13 22	15 15		n.a.
T 22	1 51	10 18	0s51	9 28	2 19	5 23	7 58	24 26	0 51	11 47	0 48	13 29	1 51	24 6	0 23	3 3	1 53	3 47	14 50	12 51	13 23	15 14		n.a.
F 23	1 27	6 39	1 54	10 1	2 24	5 2	7 51	24 26	0 52	11 52	0 48	13 31	1 51	24 6	0 23	3 3	1 53	3 47	14 51	12 51	13 24	15 13		n.a.
S 24	1 3	2 41	2 53	10 33	2 29	4 40	7 43	24 26	0 54	11 56	0 48	13 33	1 51	24 6	0 23	3 4	1 53	3 48	14 51	12 52	13 25	15 12		n.a.
S 25	0 39	1n26	3 45	11 4	2 34	4 17	7 34	24 26	0 55	12 0	0 47	13 35	1 50	24 6	0 23	3 5	1 53	3 48	14 51	12 54	13 26	15 10		n.a.
M26	0 15	5 33	4 26	11 33	2 39	3 55	7 24	24 25	0 56	12 5	0 47	13 37	1 50	24 6	0 23	3 5	1 53	3 49	14 51	12 56	13 27	15 9		n.a.
T 27	0s 9	9 30	4 55	12 1	2 43	3 31	7 14	24 25	0 58	12 9	0 47	13 39	1 50	24 6	0 23	3 6	1 53	3 49	14 51	12 58	13 28	15 8		n.a.
W28	0 34	13 4	5 10	12 28	2 47	3 8	7 3	24 24	0 59	12 13	0 47	13 41	1 50	24 6	0 23	3 7	1 53	3 50	14 51	13 0	13 30	15 7		n.a.
T 29	0 58	16 3	5 9	12 53	2 50	2 45	6 51	24 24	1 0	12 18	0 47	13 43	1 50	24 6	0 23	3 7	1 53	3 50	14 51	13 1	13 31	15 6		n.a.
F 30	1s22	18n14	4s51	13s16	2s53	2s22	6s39	24n23	1n 2	12s22	0n47	13s45	1n50	24s 6	0s23	3s 8	1s53	3s51	14s51	13n 2	13n32	15s 4		n.a.

Julian Day Number = 1682949.5, Delta T = 03h14m30s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'11, Lahiri = - 5°24'11 Julian Calendar 1 Sept. 106 BCE == Greg. Calendar 29 Aug. 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

OCTOBER 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 24 40	4♎23'35	0♋35	28♎ 6	20°R12	9♋57	4♏32	11♏43	0♉48	26°R28	25°R33	25°D50	24♌22	18♒ 3	n.a.	S 1
S 2	0 28 37	5°23'43	14°29	28°54	19♍45	10°26	4°44	11°50	0°49	26♓26	25♈32	25♌50	24°19	18° 9	n.a.	S 2
M 3	0 32 33	6°23'54	28°38	29°39	19°21	10°54	4°57	11°56	0°50	26°25	25°31	25°52	24°16	18°16	n.a.	M 3
T 4	0 36 30	7°24'07	13♌ 2	0♏19	18°59	11°22	5° 9	12° 2	0°51	26°23	25°30	25°53	24°12	18°23	n.a.	T 4
W 5	0 40 27	8°24'23	27°37	0°54	18°39	11°50	5°22	12° 8	0°52	26°21	25°29	25°R53	24° 9	18°29	n.a.	W 5
T 6	0 44 23	9°24'40	12♍19	1°23	18°21	12°17	5°35	12°14	0°53	26°20	25°28	25°52	24° 6	18°36	n.a.	T 6
F 7	0 48 20	10°25'00	27° 3	1°45	18° 6	12°44	5°48	12°21	0°55	26°18	25°27	25°49	24° 3	18°42	n.a.	F 7
S 8	0 52 16	11°25'21	11♎41	2° 0	17°53	13°11	6° 1	12°27	0°56	26°17	25°26	25°44	24° 0	18°49	n.a.	S 8
S 9	0 56 13	12°25'44	26° 5	2°R 8	17°43	13°38	6°14	12°33	0°57	26°15	25°24	25°36	23°57	18°56	n.a.	S 9
M10	1 0 9	13°26'09	10♏10	2° 7	17°35	14° 4	6°27	12°40	0°58	26°13	25°23	25°28	23°53	19° 2	n.a.	M10
T 11	1 4 6	14°26'35	23°52	1°56	17°30	14°31	6°40	12°46	1° 0	26°12	25°22	25°20	23°50	19° 9	n.a.	T 11
W12	1 8 2	15°27'03	7♐ 8	1°37	17°27	14°56	6°53	12°53	1° 1	26°10	25°21	25°13	23°47	19°16	n.a.	W12
T 13	1 11 59	16°27'33	19°59	1° 7	17°D26	15°22	7° 6	12°59	1° 3	26° 9	25°20	25° 7	23°44	19°22	n.a.	T 13
F 14	1 15 56	17°28'04	2♑28	0°27	17°28	15°47	7°19	13° 6	1° 4	26° 7	25°19	25° 4	23°41	19°29	n.a.	F 14
S 15	1 19 52	18°28'37	14°39	29♎37	17°32	16°12	7°32	13°12	1° 6	26° 6	25°18	25°D 3	23°38	19°36	n.a.	S 15
S 16	1 23 49	19°29'11	26°36	28°38	17°39	16°37	7°45	13°19	1° 7	26° 4	25°17	25° 3	23°34	19°42	n.a.	S 16
M17	1 27 45	20°29'46	8♒26	27°31	17°47	17° 1	7°58	13°26	1° 9	26° 3	25°16	25° 4	23°31	19°49	n.a.	M17
T 18	1 31 42	21°30'23	20°13	26°17	17°58	17°25	8°12	13°32	1°11	26° 1	25°14	25°R 5	23°28	19°56	n.a.	T 18
W19	1 35 38	22°31'01	2♓ 3	24°58	18°12	17°49	8°25	13°39	1°12	26° 0	25°13	25° 4	23°25	20° 2	n.a.	W19
T 20	1 39 35	23°31'40	14° 0	23°37	18°27	18°12	8°38	13°46	1°14	25°58	25°12	25° 2	23°22	20° 9	n.a.	T 20
F 21	1 43 31	24°32'21	26° 8	22°16	18°44	18°35	8°52	13°52	1°16	25°57	25°11	24°58	23°18	20°16	n.a.	F 21
S 22	1 47 28	25°33'03	8♈29	20°59	19° 4	18°58	9° 5	13°59	1°18	25°55	25°10	24°51	23°15	20°22	n.a.	S 22
S 23	1 51 24	26°33'46	21° 5	19°47	19°25	19°20	9°18	14° 6	1°20	25°54	25° 9	24°41	23°12	20°29	n.a.	S 23
M24	1 55 21	27°34'31	3♉56	18°42	19°48	19°42	9°32	14°13	1°22	25°52	25° 8	24°30	23° 9	20°35	n.a.	M24
T 25	1 59 18	28°35'17	17° 2	17°48	20°13	20° 4	9°45	14°20	1°24	25°51	25° 6	24°19	23° 6	20°42	n.a.	T 25
W26	2 3 14	29°36'05	0♊21	17° 4	20°40	20°25	9°59	14°26	1°26	25°50	25° 5	24° 7	23° 3	20°49	n.a.	W26
T 27	2 7 11	0♏36'54	13°51	16°31	21° 9	20°46	10°12	14°33	1°28	25°48	25° 4	23°58	22°59	20°55	n.a.	T 27
F 28	2 11 7	1°37'45	27°31	16°10	21°39	21° 6	10°26	14°40	1°30	25°47	25° 3	23°51	22°56	21° 2	n.a.	F 28
S 29	2 15 4	2°38'38	11♋18	16°D 1	22°10	21°27	10°39	14°47	1°32	25°46	25° 2	23°46	22°53	21° 9	n.a.	S 29
S 30	2 19 0	3°39'32	25°13	16° 3	22°44	21°46	10°53	14°54	1°34	25°45	25° 1	23°45	22°50	21°15	n.a.	S 30
M31	2 22 57	4♏40'28	9♌14	16♎15	23♍18	22♋ 6	11♏ 6	15♏ 1	1♉37	25♓43	25♈ 0	23°D44	22♌47	21♒22	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	1s46	19n26	4s16	13s38	2s55	1s59	6s26	24n22	1n 3	12s26	0n47	13s47	1n50	24s 5	0s23	3s 9	1s53	3s51	14s51	13n 3	13n33	15s 3		n.a.
S 2	2 10	19 30	3 26	13 57	2 57	1 37	6 13	24 22	1 4	12 31	0 46	13 49	1 49	24 5	0 23	3 9	1 53	3 52	14 52	13 3	13 34	15 2		n.a.
M 3	2 34	18 20	2 23	14 14	2 57	1 14	5 59	24 21	1 6	12 35	0 46	13 51	1 49	24 5	0 23	3 10	1 53	3 52	14 52	13 2	13 35	15 1		n.a.
T 4	2 58	15 59	1 9	14 28	2 57	0 53	5 46	24 20	1 7	12 40	0 46	13 53	1 49	24 5	0 23	3 11	1 53	3 52	14 52	13 2	13 36	14 59		n.a.
W 5	3 22	12 35	0n 9	14 40	2 57	0 32	5 31	24 19	1 9	12 44	0 46	13 55	1 49	24 5	0 23	3 11	1 53	3 53	14 52	13 2	13 37	14 58		n.a.
T 6	3 46	8 22	1 28	14 48	2 55	0 12	5 17	24 18	1 10	12 48	0 46	13 57	1 49	24 5	0 23	3 12	1 53	3 53	14 52	13 2	13 38	14 57		n.a.
F 7	4 10	3 38	2 41	14 54	2 52	0n 7	5 3	24 17	1 12	12 53	0 46	13 59	1 49	24 5	0 23	3 13	1 53	3 54	14 52	13 3	13 39	14 56		n.a.
S 8	4 34	1s16	3 42	14 55	2 48	0 26	4 48	24 15	1 13	12 57	0 46	14 1	1 49	24 5	0 23	3 13	1 53	3 54	14 52	13 5	13 40	14 54		n.a.
S 9	4 58	6 1	4 28	14 53	2 42	0 43	4 33	24 14	1 15	13 2	0 46	14 3	1 48	24 5	0 23	3 14	1 53	3 55	14 52	13 8	13 41	14 53		n.a.
M10	5 22	10 20	4 57	14 46	2 35	1 0	4 19	24 13	1 16	13 6	0 45	14 5	1 48	24 5	0 23	3 14	1 53	3 55	14 52	13 10	13 42	14 52		n.a.
T 11	5 45	13 59	5 8	14 34	2 27	1 15	4 4	24 12	1 18	13 11	0 45	14 8	1 48	24 5	0 23	3 15	1 53	3 55	14 52	13 13	13 43	14 51		n.a.
W12	6 9	16 47	5 1	14 18	2 17	1 30	3 50	24 10	1 19	13 15	0 45	14 10	1 48	24 5	0 23	3 16	1 53	3 56	14 52	13 16	13 44	14 49		n.a.
T 13	6 32	18 41	4 40	13 56	2 5	1 43	3 36	24 9	1 21	13 19	0 45	14 12	1 48	24 5	0 23	3 16	1 53	3 56	14 52	13 17	13 46	14 48		n.a.
F 14	6 56	19 36	4 5	13 30	1 51	1 55	3 21	24 8	1 22	13 24	0 45	14 14	1 48	24 5	0 23	3 17	1 53	3 57	14 52	13 19	13 47	14 47		n.a.
S 15	7 19	19 35	3 20	12 58	1 36	2 6	3 7	24 6	1 24	13 28	0 45	14 16	1 48	24 5	0 23	3 17	1 53	3 57	14 52	13 19	13 48	14 46		n.a.
S 16	7 42	18 40	2 27	12 21	1 19	2 17	2 54	24 5	1 26	13 33	0 45	14 18	1 48	24 5	0 23	3 18	1 53	3 58	14 52	13 19	13 49	14 44		n.a.
M17	8 6	16 56	1 28	11 39	1 1	2 26	2 40	24 3	1 27	13 37	0 45	14 20	1 47	24 5	0 23	3 19	1 53	3 58	14 52	13 19	13 50	14 43		n.a.
T 18	8 29	14 30	0 26	10 54	0 41	2 34	2 27	24 2	1 29	13 42	0 44	14 22	1 47	24 5	0 23	3 19	1 53	3 58	14 52	13 18	13 51	14 42		n.a.
W19	8 51	11 27	0s37	10 6	0 21	2 40	2 13	24 0	1 31	13 46	0 44	14 24	1 47	24 5	0 23	3 20	1 53	3 59	14 52	13 18	13 52	14 41		n.a.
T 20	9 14	7 54	1 40	9 16	0 0	2 46	2 1	23 59	1 32	13 50	0 44	14 26	1 47	24 5	0 23	3 20	1 53	3 59	14 52	13 19	13 53	14 39		n.a.
F 21	9 37	3 58	2 38	8 27	0n20	2 51	1 48	23 57	1 34	13 55	0 44	14 29	1 47	24 5	0 23	3 21	1 53	3 59	14 52	13 21	13 54	14 38		n.a.
S 22	9 59	0n11	3 30	7 39	0 40	2 55	1 36	23 56	1 36	13 59	0 44	14 31	1 47	24 5	0 23	3 21	1 53	4 0	14 52	13 23	13 55	14 37		n.a.
S 23	10 21	4 24	4 13	6 54	0 59	2 57	1 24	23 54	1 38	14 4	0 44	14 33	1 47	24 5	0 23	3 22	1 53	4 0	14 52	13 26	13 56	14 35		n.a.
M24	10 44	8 31	4 44	6 14	1 17	2 59	1 12	23 53	1 39	14 8	0 44	14 35	1 47	24 5	0 23	3 23	1 53	4 1	14 52	13 30	13 57	14 34		n.a.
T 25	11 6	12 18	5 1	5 38	1 33	2 59	1 1	23 51	1 41	14 12	0 44	14 37	1 47	24 5	0 23	3 23	1 52	4 1	14 52	13 34	13 58	14 33		n.a.
W26	11 27	15 32	5 1	5 8	1 47	2 59	0 50	23 50	1 43	14 17	0 44	14 39	1 47	24 5	0 23	3 24	1 52	4 1	14 52	13 38	13 59	14 32		n.a.
T 27	11 49	18 0	4 45	4 45	1 59	2 57	0 39	23 48	1 45	14 21	0 44	14 41	1 47	24 5	0 23	3 24	1 52	4 2	14 52	13 41	14 0	14 30		n.a.
F 28	12 10	19 28	4 13	4 27	2 9	2 55	0 28	23 47	1 47	14 26	0 43	14 43	1 46	24 5	0 23	3 25	1 52	4 2	14 52	13 43	14 1	14 29		n.a.
S 29	12 32	19 48	3 25	4 16	2 17	2 52	0 18	23 46	1 49	14 30	0 43	14 46	1 46	24 5	0 23	3 25	1 52	4 2	14 52	13 45	14 2	14 28		n.a.
S 30	12 53	18 57	2 26	4 11	2 23	2 48	0 8	23 44	1 50	14 34	0 43	14 48	1 46	24 5	0 23	3 25	1 52	4 3	14 52	13 45	14 3	14 26		n.a.
M31	13s13	16n55	1s16	4s12	2n27	2n43	0n 2	23n43	1n52	14s39	0n43	14s50	1n46	24s 5	0s23	3s26	1s52	4s 3	14s52	13n45	14n 5	14s25		n.a.

Julian Day Number = 1682979.5, Delta T = 03h14m29s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'07, Lahiri = - 5°24'06 Julian Calendar 1 Oct. 106 BCE == Greg. Calendar 28 Sept. 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

NOVEMBER 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 26 53	5♏41'25	23♌22	16♎36	23♍55	22♋24	11♏20	15♏ 8	1♑39	25°R42	24°R59	23°R45	22♌43	21♒29	n.a.	T 1
W 2	2 30 50	6°42'23	7♍35	17° 7	24°32	22°43	11°33	15°15	1°41	25♓41	24♈57	23♌44	22°40	21°35	n.a.	W 2
T 3	2 34 47	7°43'23	21°51	17°45	25°11	23° 1	11°47	15°22	1°44	25°40	24°56	23°41	22°37	21°42	n.a.	T 3
F 4	2 38 43	8°44'24	6♎ 7	18°30	25°51	23°18	12° 0	15°29	1°46	25°39	24°55	23°36	22°34	21°49	n.a.	F 4
S 5	2 42 40	9°45'27	20°20	19°20	26°32	23°35	12°14	15°36	1°49	25°38	24°54	23°27	22°31	21°55	n.a.	S 5
S 6	2 46 36	10°46'30	4♏24	20°17	27°15	23°52	12°28	15°43	1°51	25°36	24°53	23°16	22°28	22° 2	n.a.	S 6
M 7	2 50 33	11°47'35	18°14	21°18	27°58	24° 8	12°41	15°50	1°54	25°35	24°52	23° 3	22°24	22° 8	n.a.	M 7
T 8	2 54 29	12°48'40	1♐46	22°23	28°43	24°23	12°55	15°57	1°56	25°34	24°51	22°50	22°21	22°15	n.a.	T 8
W 9	2 58 26	13°49'47	14°57	23°31	29°28	24°38	13° 8	16° 4	1°59	25°33	24°50	22°38	22°18	22°22	n.a.	W 9
T 10	3 2 22	14°50'54	27°47	24°43	0♎15	24°53	13°22	16°11	2° 2	25°32	24°49	22°28	22°15	22°28	n.a.	T 10
F 11	3 6 19	15°52'02	10♑16	25°57	1° 2	25° 7	13°36	16°18	2° 4	25°31	24°48	22°21	22°12	22°35	n.a.	F 11
S 12	3 10 16	16°53'11	22°27	27°14	1°51	25°20	13°49	16°25	2° 7	25°31	24°47	22°17	22° 9	22°42	n.a.	S 12
S 13	3 14 12	17°54'20	4♒26	28°33	2°40	25°33	14° 3	16°32	2°10	25°30	24°46	22°15	22° 5	22°48	n.a.	S 13
M14	3 18 9	18°55'29	16°16	29°53	3°30	25°45	14°17	16°39	2°12	25°29	24°45	22°14	22° 2	22°55	n.a.	M14
T 15	3 22 5	19°56'39	28° 3	1♏15	4°21	25°57	14°30	16°46	2°15	25°28	24°44	22°14	21°59	23° 2	n.a.	T 15
W16	3 26 2	20°57'49	9♓53	2°38	5°13	26° 8	14°44	16°53	2°18	25°27	24°43	22°13	21°56	23° 8	n.a.	W16
T 17	3 29 58	21°58'59	21°52	4° 2	6° 5	26°19	14°57	17° 0	2°21	25°26	24°42	22°11	21°53	23°15	n.a.	T 17
F 18	3 33 55	23° 0'10	4♈ 4	5°27	6°58	26°29	15°11	17° 7	2°24	25°26	24°41	22° 6	21°49	23°22	n.a.	F 18
S 19	3 37 51	24° 1'21	16°32	6°53	7°52	26°38	15°24	17°14	2°27	25°25	24°40	21°58	21°46	23°28	n.a.	S 19
S 20	3 41 48	25° 2'33	29°21	8°20	8°47	26°47	15°38	17°21	2°30	25°24	24°39	21°47	21°43	23°35	n.a.	S 20
M21	3 45 45	26° 3'45	12♉29	9°48	9°42	26°55	15°51	17°28	2°33	25°24	24°38	21°34	21°40	23°42	n.a.	M21
T 22	3 49 41	27° 4'57	25°57	11°16	10°38	27° 2	16° 5	17°35	2°36	25°23	24°37	21°21	21°37	23°48	n.a.	T 22
W23	3 53 38	28° 6'10	9♊42	12°44	11°34	27° 9	16°18	17°42	2°39	25°22	24°36	21° 8	21°34	23°55	n.a.	W23
T 24	3 57 34	29° 7'23	23°39	14°13	12°31	27°15	16°32	17°49	2°42	25°22	24°35	20°57	21°30	24° 1	n.a.	T 24
F 25	4 1 31	0♐ 8'37	7♋45	15°43	13°29	27°21	16°45	17°56	2°45	25°21	24°34	20°49	21°27	24° 8	n.a.	F 25
S 26	4 5 27	1° 9'51	21°55	17°13	14°27	27°25	16°59	18° 3	2°48	25°21	24°33	20°43	21°24	24°15	n.a.	S 26
S 27	4 9 24	2°11'06	6♌ 5	18°43	15°25	27°29	17°12	18°10	2°51	25°20	24°32	20°41	21°21	24°21	n.a.	S 27
M28	4 13 21	3°12'20	20°13	20°14	16°24	27°33	17°26	18°17	2°54	25°20	24°31	20°D40	21°18	24°28	n.a.	M28
T 29	4 17 17	4°13'36	4♍19	21°45	17°24	27°35	17°39	18°24	2°58	25°20	24°31	20°R40	21°15	24°35	n.a.	T 29
W30	4 21 14	5♐14'52	18♍20	23♏16	18♎24	27♋37	17♏52	18♏30	3♑ 1	25♓19	24♈30	20♌40	21♌11	24♒41	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s34	13n51	0s 2	4s17	2n30	2n37	0n11	23n42	1n54	14s43	0n43	14s52	1n46	24s 5	0s23	3s26	1s52	4s 3	14s51	13n45	14n 6	14s24		n.a.
W 2	13 54	9 57	1n13	4 28	2 32	2 30	0 20	23 41	1 56	14 47	0 43	14 54	1 46	24 5	0 23	3 27	1 52	4 4	14 51	13 46	14 7	14 22		n.a.
T 3	14 14	5 27	2 23	4 42	2 32	2 22	0 29	23 40	1 58	14 52	0 43	14 56	1 46	24 5	0 23	3 27	1 52	4 4	14 51	13 46	14 8	14 21		n.a.
F 4	14 34	0 40	3 25	5 0	2 31	2 14	0 37	23 39	2 0	14 56	0 43	14 58	1 46	24 5	0 23	3 28	1 52	4 4	14 51	13 48	14 9	14 20		n.a.
S 5	14 54	4s 8	4 13	5 21	2 29	2 5	0 45	23 38	2 2	15 0	0 43	15 0	1 46	24 5	0 23	3 28	1 52	4 4	14 51	13 51	14 10	14 18		n.a.
S 6	15 13	8 40	4 45	5 45	2 26	1 55	0 53	23 37	2 4	15 4	0 43	15 2	1 46	24 4	0 23	3 28	1 52	4 5	14 51	13 55	14 11	14 17		n.a.
M 7	15 32	12 39	5 0	6 11	2 23	1 45	1 1	23 36	2 6	15 9	0 43	15 5	1 46	24 4	0 23	3 29	1 52	4 5	14 51	13 59	14 12	14 16		n.a.
T 8	15 51	15 54	4 57	6 40	2 19	1 33	1 8	23 35	2 9	15 13	0 42	15 7	1 46	24 4	0 23	3 29	1 52	4 5	14 51	14 3	14 13	14 14		n.a.
W 9	16 10	18 14	4 39	7 9	2 14	1 22	1 15	23 35	2 11	15 17	0 42	15 9	1 46	24 4	0 23	3 30	1 52	4 6	14 51	14 7	14 14	14 13		n.a.
T 10	16 28	19 35	4 6	7 41	2 9	1 9	1 22	23 34	2 13	15 21	0 42	15 11	1 46	24 4	0 23	3 30	1 52	4 6	14 50	14 11	14 15	14 12		n.a.
F 11	16 46	19 56	3 23	8 13	2 4	0 56	1 28	23 34	2 15	15 25	0 42	15 13	1 46	24 4	0 23	3 30	1 52	4 6	14 50	14 13	14 16	14 10		n.a.
S 12	17 4	19 20	2 31	8 46	1 58	0 42	1 35	23 33	2 17	15 30	0 42	15 15	1 45	24 4	0 23	3 31	1 52	4 6	14 50	14 14	14 17	14 9		n.a.
S 13	17 21	17 52	1 33	9 21	1 51	0 28	1 41	23 33	2 19	15 34	0 42	15 17	1 45	24 4	0 23	3 31	1 52	4 7	14 50	14 15	14 18	14 8		n.a.
M14	17 39	15 38	0 32	9 55	1 45	0 13	1 46	23 33	2 22	15 38	0 42	15 19	1 45	24 4	0 23	3 31	1 52	4 7	14 50	14 15	14 19	14 6		n.a.
T 15	17 55	12 46	0s31	10 30	1 38	0s 2	1 52	23 33	2 24	15 42	0 42	15 21	1 45	24 4	0 23	3 32	1 52	4 7	14 50	14 15	14 20	14 5		n.a.
W16	18 12	9 22	1 32	11 5	1 31	0 18	1 57	23 33	2 26	15 46	0 42	15 23	1 45	24 4	0 23	3 32	1 52	4 7	14 50	14 15	14 21	14 4		n.a.
T 17	18 28	5 33	2 30	11 41	1 25	0 34	2 2	23 33	2 28	15 50	0 42	15 25	1 45	24 4	0 23	3 32	1 52	4 7	14 49	14 16	14 22	14 2		n.a.
F 18	18 44	1 27	3 22	12 16	1 17	0 51	2 7	23 33	2 31	15 54	0 42	15 27	1 45	24 4	0 23	3 32	1 51	4 8	14 49	14 18	14 23	14 1		n.a.
S 19	18 59	2n48	4 6	12 52	1 10	1 9	2 12	23 34	2 33	15 58	0 42	15 29	1 45	24 4	0 23	3 33	1 51	4 8	14 49	14 21	14 24	13 59		n.a.
S 20	19 14	7 2	4 38	13 27	1 3	1 26	2 16	23 35	2 35	16 2	0 42	15 31	1 45	24 4	0 23	3 33	1 51	4 8	14 49	14 24	14 25	13 58		n.a.
M21	19 29	11 3	4 57	14 2	0 56	1 44	2 20	23 35	2 38	16 6	0 42	15 33	1 45	24 4	0 23	3 33	1 51	4 8	14 49	14 28	14 26	13 57		n.a.
T 22	19 43	14 37	4 59	14 36	0 48	2 3	2 24	23 36	2 40	16 10	0 41	15 35	1 45	24 4	0 23	3 33	1 51	4 8	14 49	14 33	14 27	13 55		n.a.
W23	19 57	17 27	4 45	15 11	0 41	2 22	2 28	23 37	2 43	16 14	0 41	15 37	1 45	24 4	0 23	3 33	1 51	4 8	14 48	14 37	14 28	13 54		n.a.
T 24	20 11	19 20	4 13	15 45	0 34	2 41	2 31	23 38	2 45	16 18	0 41	15 39	1 45	24 3	0 23	3 34	1 51	4 8	14 48	14 40	14 29	13 52		n.a.
F 25	20 24	20 3	3 26	16 18	0 27	3 0	2 34	23 40	2 48	16 22	0 41	15 41	1 45	24 3	0 23	3 34	1 51	4 9	14 48	14 43	14 31	13 51		n.a.
S 26	20 37	19 30	2 26	16 51	0 19	3 20	2 38	23 41	2 50	16 26	0 41	15 43	1 45	24 3	0 23	3 34	1 51	4 9	14 48	14 45	14 32	13 50		n.a.
S 27	20 50	17 44	1 17	17 23	0 12	3 40	2 40	23 43	2 53	16 30	0 41	15 45	1 45	24 3	0 23	3 34	1 51	4 9	14 47	14 46	14 33	13 48		n.a.
M28	21 2	14 52	0 2	17 55	0 5	4 1	2 43	23 45	2 55	16 34	0 41	15 47	1 45	24 3	0 23	3 34	1 51	4 9	14 47	14 46	14 34	13 47		n.a.
T 29	21 14	11 9	1n12	18 26	0s 2	4 22	2 46	23 47	2 58	16 38	0 41	15 49	1 45	24 3	0 23	3 34	1 51	4 9	14 47	14 46	14 35	13 45		n.a.
W30	21s25	6n49	2n21	18s56	0s 9	4s42	2n48	23n49	3n 0	16s42	0n41	15s51	1n45	24s 3	0s23	3s34	1s51	4s 9	14s47	14n46	14n36	13s44		n.a.

Julian Day Number = 1683010.5, Delta T = 03h14m28s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°31'03, Lahiri = - 5°24'02 Julian Calendar 1 Nov. 106 BCE == Greg. Calendar 29 Oct. 106 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 106 BCE
geocentric

DECEMBER 106 BCE (-105) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 10	6♐16'08	2♎18	24♏48	19♎25	27♋38	18♏ 6	18♏37	3♑ 4	25°R19	24°R29	20°R37	21♌ 8	24♒48	n.a.	T 1
F 2	4 29 7	7°17'24	16°10	26°20	20°26	27°R38	18°19	18°44	3° 7	25♓19	24♈28	20♌32	21° 5	24°55	n.a.	F 2
S 3	4 33 3	8°18'41	29°56	27°52	21°27	27°38	18°32	18°51	3°11	25°18	24°27	20°24	21° 2	25° 1	n.a.	S 3
S 4	4 37 0	9°19'58	13♏32	29°25	22°29	27°37	18°45	18°58	3°14	25°18	24°27	20°13	20°59	25° 8	n.a.	S 4
M 5	4 40 56	10°21'15	26°58	0♐58	23°31	27°35	18°59	19° 4	3°17	25°18	24°26	20° 1	20°55	25°15	n.a.	M 5
T 6	4 44 53	11°22'32	10♐ 9	2°31	24°33	27°32	19°12	19°11	3°20	25°18	24°25	19°49	20°52	25°21	n.a.	T 6
W 7	4 48 50	12°23'48	23° 5	4° 5	25°36	27°28	19°25	19°18	3°24	25°18	24°24	19°37	20°49	25°28	n.a.	W 7
T 8	4 52 46	13°25'05	5♑44	5°39	26°39	27°24	19°38	19°24	3°27	25°18	24°24	19°27	20°46	25°34	n.a.	T 8
F 9	4 56 43	14°26'21	18° 7	7°13	27°43	27°18	19°51	19°31	3°31	25°18	24°23	19°20	20°43	25°41	n.a.	F 9
S 10	5 0 39	15°27'37	0♒16	8°48	28°47	27°12	20° 4	19°38	3°34	25°D18	24°22	19°15	20°40	25°48	n.a.	S 10
S 11	5 4 36	16°28'52	12°13	10°23	29°51	27° 5	20°17	19°44	3°37	25°18	24°22	19°13	20°36	25°54	n.a.	S 11
M12	5 8 32	17°30'06	24° 2	11°59	0♏55	26°58	20°30	19°51	3°41	25°18	24°21	19°D13	20°33	26° 1	n.a.	M12
T 13	5 12 29	18°31'20	5♓49	13°35	2° 0	26°49	20°43	19°57	3°44	25°18	24°20	19°14	20°30	26° 8	n.a.	T 13
W14	5 16 25	19°32'33	17°39	15°12	3° 5	26°40	20°55	20° 4	3°48	25°18	24°20	19°R14	20°27	26°14	n.a.	W14
T 15	5 20 22	20°33'46	29°36	16°49	4°10	26°30	21° 8	20°10	3°51	25°18	24°19	19°14	20°24	26°21	n.a.	T 15
F 16	5 24 19	21°34'57	11♈48	18°26	5°16	26°19	21°21	20°16	3°55	25°18	24°19	19°12	20°21	26°28	n.a.	F 16
S 17	5 28 15	22°36'08	24°17	20° 4	6°21	26° 7	21°34	20°23	3°58	25°19	24°18	19° 7	20°17	26°34	n.a.	S 17
S 18	5 32 12	23°37'18	7♉ 9	21°42	7°27	25°55	21°46	20°29	4° 2	25°19	24°18	19° 0	20°14	26°41	n.a.	S 18
M19	5 36 8	24°38'27	20°26	23°21	8°33	25°42	21°59	20°35	4° 5	25°19	24°17	18°52	20°11	26°48	n.a.	M19
T 20	5 40 5	25°39'35	4♊ 6	25° 1	9°40	25°28	22°11	20°41	4° 9	25°19	24°17	18°42	20° 8	26°54	n.a.	T 20
W21	5 44 1	26°40'42	18° 9	26°41	10°47	25°13	22°24	20°48	4°12	25°20	24°16	18°33	20° 5	27° 1	n.a.	W21
T 22	5 47 58	27°41'49	2♋30	28°22	11°53	24°57	22°36	20°54	4°16	25°20	24°16	18°25	20° 1	27° 8	n.a.	T 22
F 23	5 51 55	28°42'55	17° 3	0♑ 3	13° 0	24°41	22°48	21° 0	4°19	25°21	24°15	18°19	19°58	27°14	n.a.	F 23
S 24	5 55 51	29°44'00	1♌41	1°44	14° 8	24°24	23° 1	21° 6	4°23	25°21	24°15	18°16	19°55	27°21	n.a.	S 24
S 25	5 59 48	0♑45'04	16°17	3°27	15°15	24° 7	23°13	21°12	4°26	25°22	24°15	18°D15	19°52	27°27	n.a.	S 25
M26	6 3 44	1°46'08	0♍46	5° 9	16°23	23°49	23°25	21°18	4°30	25°22	24°14	18°15	19°49	27°34	n.a.	M26
T 27	6 7 41	2°47'11	15° 5	6°53	17°31	23°30	23°37	21°23	4°33	25°23	24°14	18°16	19°46	27°41	n.a.	T 27
W28	6 11 37	3°48'13	29°11	8°37	18°39	23°10	23°49	21°29	4°37	25°23	24°14	18°R17	19°42	27°47	n.a.	W28
T 29	6 15 34	4°49'14	13♎ 4	10°21	19°47	22°50	24° 1	21°35	4°40	25°24	24°13	18°17	19°39	27°54	n.a.	T 29
F 30	6 19 30	5°50'15	26°44	12° 6	20°55	22°30	24°13	21°41	4°44	25°25	24°13	18°15	19°36	28° 1	n.a.	F 30
S 31	6 23 27	6♑51'15	10♏10	13♑51	22♏ 4	22♋ 8	24♏25	21♏46	4♑47	25♓26	24♈13	18♌11	19♌33	28♒ 7	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
T 1	21s36	2n 9	3n22	19s26	0s16	5s 4	2n50	23n51	3n 3	16s45	0n41	15s53	1n45	24s 3	0s23	3s34	1s51	4s 9	14s47	14n47	14n37	13s43			n.a.
F 2	21 46	2s35	4 10	19 54	0 22	5 25	2 52	23 53	3 5	16 49	0 41	15 54	1 45	24 3	0 23	3 34	1 51	4 9	14 46	14 48	14 38	13 41			n.a.
S 3	21 56	7 9	4 43	20 22	0 29	5 46	2 54	23 56	3 8	16 53	0 41	15 56	1 45	24 3	0 23	3 34	1 51	4 9	14 46	14 51	14 39	13 40			n.a.
S 4	22 6	11 19	5 0	20 49	0 35	6 8	2 55	23 59	3 11	16 57	0 41	15 58	1 45	24 3	0 23	3 35	1 51	4 9	14 46	14 54	14 40	13 38			n.a.
M 5	22 15	14 50	5 0	21 15	0 42	6 30	2 56	24 2	3 13	17 0	0 41	16 0	1 45	24 3	0 23	3 35	1 51	4 9	14 46	14 58	14 41	13 37			n.a.
T 6	22 24	17 33	4 43	21 40	0 48	6 52	2 58	24 5	3 16	17 4	0 41	16 2	1 45	24 3	0 23	3 35	1 50	4 9	14 45	15 2	14 42	13 36			n.a.
W 7	22 32	19 19	4 13	22 5	0 54	7 14	2 59	24 8	3 18	17 8	0 41	16 4	1 45	24 2	0 23	3 35	1 50	4 9	14 45	15 6	14 43	13 34			n.a.
T 8	22 40	20 5	3 30	22 28	0 59	7 36	3 0	24 12	3 21	17 11	0 41	16 5	1 45	24 2	0 23	3 35	1 50	4 9	14 45	15 9	14 44	13 33			n.a.
F 9	22 47	19 51	2 38	22 50	1 5	7 58	3 0	24 15	3 23	17 15	0 41	16 7	1 45	24 2	0 23	3 34	1 50	4 9	14 45	15 11	14 45	13 31			n.a.
S 10	22 54	18 42	1 40	23 11	1 11	8 21	3 1	24 19	3 26	17 18	0 41	16 9	1 45	24 2	0 23	3 34	1 50	4 9	14 44	15 13	14 46	13 30			n.a.
S 11	23 1	16 44	0 37	23 30	1 16	8 43	3 1	24 23	3 29	17 22	0 40	16 11	1 45	24 2	0 23	3 34	1 50	4 9	14 44	15 13	14 47	13 28			n.a.
M12	23 7	14 4	0s26	23 49	1 21	9 5	3 2	24 27	3 31	17 25	0 40	16 12	1 45	24 2	0 23	3 34	1 50	4 9	14 44	15 13	14 48	13 27			n.a.
T 13	23 12	10 50	1 28	24 6	1 26	9 28	3 2	24 31	3 34	17 29	0 40	16 14	1 45	24 2	0 23	3 34	1 50	4 9	14 43	15 13	14 49	13 25			n.a.
W14	23 17	7 11	2 26	24 22	1 30	9 50	3 2	24 35	3 36	17 32	0 40	16 16	1 45	24 2	0 23	3 34	1 50	4 9	14 43	15 13	14 50	13 24			n.a.
T 15	23 22	3 12	3 19	24 37	1 35	10 12	3 1	24 40	3 39	17 36	0 40	16 18	1 45	24 2	0 23	3 34	1 50	4 9	14 43	15 13	14 51	13 22			n.a.
F 16	23 26	0n59	4 4	24 50	1 39	10 35	3 1	24 45	3 41	17 39	0 40	16 19	1 45	24 2	0 23	3 34	1 50	4 9	14 43	15 14	14 52	13 21			n.a.
S 17	23 30	5 13	4 38	25 2	1 43	10 57	3 1	24 49	3 44	17 42	0 40	16 21	1 45	24 2	0 23	3 34	1 50	4 9	14 42	15 15	14 53	13 20			n.a.
S 18	23 33	9 20	5 0	25 12	1 46	11 19	3 0	24 54	3 46	17 46	0 40	16 23	1 45	24 1	0 23	3 34	1 50	4 9	14 42	15 18	14 54	13 18			n.a.
M19	23 36	13 8	5 6	25 21	1 49	11 41	2 59	24 59	3 49	17 49	0 40	16 24	1 45	24 1	0 23	3 33	1 50	4 9	14 42	15 20	14 55	13 17			n.a.
T 20	23 38	16 22	4 55	25 29	1 52	12 3	2 59	25 4	3 51	17 52	0 40	16 26	1 45	24 1	0 23	3 33	1 50	4 9	14 41	15 23	14 56	13 15			n.a.
W21	23 40	18 45	4 27	25 35	1 55	12 25	2 58	25 9	3 53	17 56	0 40	16 27	1 46	24 1	0 23	3 33	1 50	4 9	14 41	15 26	14 57	13 14			n.a.
T 22	23 41	20 0	3 41	25 39	1 57	12 46	2 57	25 14	3 56	17 59	0 40	16 29	1 46	24 1	0 23	3 33	1 50	4 9	14 41	15 29	14 58	13 12			n.a.
F 23	23 42	19 57	2 40	25 41	1 59	13 8	2 55	25 19	3 58	18 2	0 40	16 30	1 46	24 1	0 23	3 32	1 49	4 8	14 41	15 30	14 59	13 11			n.a.
S 24	23 42	18 34	1 28	25 42	2 1	13 29	2 54	25 25	4 0	18 5	0 40	16 32	1 46	24 1	0 23	3 32	1 49	4 8	14 40	15 31	15 0	13 9			n.a.
S 25	23 42	15 58	0 11	25 41	2 2	13 50	2 53	25 30	4 2	18 8	0 40	16 34	1 46	24 1	0 23	3 32	1 49	4 8	14 40	15 32	15 1	13 8			n.a.
M26	23 42	12 22	1n 7	25 39	2 2	14 11	2 51	25 35	4 4	18 11	0 40	16 35	1 46	24 1	0 23	3 32	1 49	4 8	14 40	15 32	15 2	13 6			n.a.
T 27	23 41	8 5	2 20	25 34	2 3	14 32	2 49	25 41	4 6	18 14	0 40	16 37	1 46	24 0	0 23	3 31	1 49	4 8	14 39	15 31	15 3	13 5			n.a.
W28	23 39	3 26	3 23	25 28	2 3	14 53	2 48	25 46	4 8	18 17	0 40	16 38	1 46	24 0	0 23	3 31	1 49	4 8	14 39	15 31	15 4	13 3			n.a.
T 29	23 37	1s20	4 14	25 19	2 2	15 13	2 46	25 51	4 10	18 20	0 40	16 39	1 46	24 0	0 23	3 31	1 49	4 7	14 39	15 31	15 5	13 2			n.a.
F 30	23 35	5 56	4 49	25 9	2 1	15 33	2 44	25 57	4 12	18 23	0 40	16 41	1 46	24 0	0 23	3 30	1 49	4 7	14 38	15 32	15 6	13 0			n.a.
S 31	23s32	10s11	5n 7	24s57	1s59	15s53	2n42	26n 2	4n14	18s26	0n40	16s42	1n46	24s 0	0s23	3s30	1s49	4s 7	14s38	15n33	15n 7	12s59			n.a.

Julian Day Number = 1683040.5, Delta T = 03h14m27s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'59, Lahiri = - 5°23'58 Julian Calendar 1 Dec. 106 BCE == Greg. Calendar 28 Nov. 106 BCE

The year -105 astronomical counting style corresponds to year 106 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

JANUARY 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	6 27 24	7♉52'14	23♏24	15♉37	23♏12	21°R47	24♏36	21♏52	4♉51	25♓26	24°R12	18°R 5	19♌30	28♒14	n.a.	S 1
M 2	6 31 20	8°53'12	6♐25	17°23	24°21	21♋25	24°48	21°58	4°54	25°27	24♈12	17♌58	19°27	28°21	n.a.	M 2
T 3	6 35 17	9°54'10	19°13	19° 8	25°30	21° 2	25° 0	22° 3	4°58	25°28	24°12	17°51	19°23	28°27	n.a.	T 3
W 4	6 39 13	10°55'06	1♉48	20°54	26°39	20°40	25°11	22° 9	5° 1	25°29	24°12	17°45	19°20	28°34	n.a.	W 4
T 5	6 43 10	11°56'01	14°12	22°40	27°48	20°17	25°22	22°14	5° 5	25°30	24°12	17°39	19°17	28°41	n.a.	T 5
F 6	6 47 6	12°56'54	26°23	24°26	28°58	19°53	25°34	22°19	5° 8	25°31	24°12	17°35	19°14	28°47	n.a.	F 6
S 7	6 51 3	13°57'47	8♒25	26°11	0♐ 7	19°30	25°45	22°24	5°12	25°31	24°12	17°33	19°11	28°54	n.a.	S 7
S 8	6 54 59	14°58'37	20°18	27°55	1°16	19° 6	25°56	22°30	5°15	25°32	24°11	17°D32	19° 7	29° 1	n.a.	S 8
M 9	6 58 56	15°59'26	2♓ 6	29°38	2°26	18°42	26° 7	22°35	5°19	25°33	24°11	17°33	19° 4	29° 7	n.a.	M 9
T 10	7 2 53	17° 0'14	13°53	1♒20	3°36	18°18	26°18	22°40	5°22	25°35	24°11	17°35	19° 1	29°14	n.a.	T 10
W11	7 6 49	18° 1'00	25°42	3° 0	4°46	17°54	26°29	22°45	5°26	25°36	24°D11	17°37	18°58	29°20	n.a.	W11
T 12	7 10 46	19° 1'44	7♈38	4°38	5°56	17°30	26°40	22°50	5°29	25°37	24°11	17°38	18°55	29°27	n.a.	T 12
F 13	7 14 42	20° 2'26	19°47	6°13	7° 6	17° 6	26°51	22°54	5°33	25°38	24°11	17°R39	18°52	29°34	n.a.	F 13
S 14	7 18 39	21° 3'07	2♉14	7°45	8°16	16°42	27° 1	22°59	5°36	25°39	24°11	17°38	18°48	29°40	n.a.	S 14
S 15	7 22 35	22° 3'46	15° 2	9°13	9°26	16°19	27°12	23° 4	5°40	25°40	24°12	17°37	18°45	29°47	n.a.	S 15
M16	7 26 32	23° 4'22	28°15	10°36	10°36	15°55	27°22	23° 9	5°43	25°41	24°12	17°34	18°42	29°54	n.a.	M16
T 17	7 30 28	24° 4'58	11♊55	11°55	11°47	15°32	27°32	23°13	5°47	25°43	24°12	17°31	18°39	0♓ 0	n.a.	T 17
W18	7 34 25	25° 5'31	26° 2	13° 7	12°57	15° 9	27°43	23°18	5°50	25°44	24°12	17°27	18°36	0° 7	n.a.	W18
T 19	7 38 22	26° 6'03	10♋33	14°13	14° 8	14°46	27°53	23°22	5°53	25°45	24°12	17°24	18°32	0°14	n.a.	T 19
F 20	7 42 18	27° 6'32	25°22	15°12	15°18	14°24	28° 3	23°26	5°57	25°47	24°12	17°22	18°29	0°20	n.a.	F 20
S 21	7 46 15	28° 7'00	10♌21	16° 2	16°29	14° 2	28°12	23°31	6° 0	25°48	24°12	17°D21	18°26	0°27	n.a.	S 21
S 22	7 50 11	29° 7'27	25°22	16°44	17°40	13°41	28°22	23°35	6° 3	25°49	24°13	17°21	18°23	0°34	n.a.	S 22
M23	7 54 8	0♒ 7'51	10♍17	17°17	18°50	13°20	28°32	23°39	6° 7	25°51	24°13	17°22	18°20	0°40	n.a.	M23
T 24	7 58 4	1° 8'14	24°59	17°41	20° 1	12°59	28°42	23°43	6°10	25°52	24°13	17°23	18°17	0°47	n.a.	T 24
W25	8 2 1	2° 8'36	9♎22	17°55	21°12	12°39	28°51	23°47	6°13	25°54	24°14	17°24	18°13	0°54	n.a.	W25
T 26	8 5 57	3° 8'56	23°25	17°R59	22°23	12°20	29° 0	23°51	6°16	25°55	24°14	17°25	18°10	1° 0	n.a.	T 26
F 27	8 9 54	4° 9'14	7♏ 5	17°53	23°34	12° 1	29° 9	23°54	6°20	25°57	24°14	17°R25	18° 7	1° 7	n.a.	F 27
S 28	8 13 51	5° 9'31	20°26	17°37	24°46	11°43	29°19	23°58	6°23	25°58	24°15	17°25	18° 4	1°14	n.a.	S 28
S 29	8 17 47	6° 9'47	3♐27	17°12	25°57	11°25	29°28	24° 2	6°26	26° 0	24°15	17°24	18° 1	1°20	n.a.	S 29
M30	8 21 44	7°10'01	16°11	16°38	27° 8	11° 8	29°36	24° 5	6°29	26° 2	24°15	17°22	17°58	1°27	n.a.	M30
T 31	8 25 40	8♒10'13	28♐41	15♒57	28♐20	10♋52	29♏45	24♏ 9	6♉32	26♓ 3	24♈16	17♌21	17♌54	1♓33	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s28	13s51	5n 9	24s43	1s57	16s12	2n40	26n 7	4n15	18s29	0n40	16s44	1n46	24s 0	0s23	3s30	1s49	4s 7	14s38	15n35	15n 8	12s57		n.a.
M 2	23 24	16 47	4 54	24 27	1 54	16 31	2 38	26 12	4 17	18 32	0 40	16 45	1 46	24 0	0 23	3 29	1 49	4 7	14 37	15 37	15 9	12 56		n.a.
T 3	23 20	18 51	4 25	24 9	1 51	16 50	2 35	26 17	4 18	18 35	0 40	16 46	1 46	24 0	0 23	3 29	1 49	4 6	14 37	15 39	15 10	12 54		n.a.
W 4	23 15	19 58	3 44	23 49	1 47	17 9	2 33	26 22	4 19	18 38	0 40	16 48	1 46	23 59	0 23	3 29	1 49	4 6	14 37	15 41	15 11	12 53		n.a.
T 5	23 10	20 5	2 52	23 27	1 42	17 27	2 30	26 27	4 21	18 40	0 40	16 49	1 46	23 59	0 23	3 28	1 49	4 6	14 36	15 43	15 12	12 51		n.a.
F 6	23 4	19 16	1 53	23 3	1 36	17 45	2 28	26 32	4 22	18 43	0 40	16 50	1 47	23 59	0 23	3 28	1 49	4 6	14 36	15 44	15 13	12 50		n.a.
S 7	22 58	17 34	0 50	22 37	1 30	18 2	2 25	26 36	4 23	18 46	0 40	16 52	1 47	23 59	0 23	3 27	1 49	4 5	14 36	15 45	15 14	12 48		n.a.
S 8	22 51	15 7	0s15	22 10	1 23	18 19	2 23	26 41	4 24	18 49	0 40	16 53	1 47	23 59	0 23	3 27	1 49	4 5	14 35	15 45	15 15	12 47		n.a.
M 9	22 44	12 4	1 19	21 41	1 16	18 36	2 20	26 45	4 25	18 51	0 40	16 54	1 47	23 59	0 23	3 26	1 48	4 5	14 35	15 45	15 16	12 45		n.a.
T 10	22 37	8 33	2 20	21 11	1 7	18 52	2 17	26 49	4 25	18 54	0 40	16 55	1 47	23 59	0 23	3 26	1 48	4 4	14 35	15 44	15 17	12 43		n.a.
W11	22 29	4 42	3 14	20 39	0 58	19 8	2 14	26 53	4 26	18 56	0 40	16 56	1 47	23 59	0 23	3 25	1 48	4 4	14 34	15 43	15 18	12 42		n.a.
T 12	22 20	0 38	4 2	20 6	0 48	19 23	2 11	26 57	4 27	18 59	0 40	16 58	1 47	23 58	0 23	3 25	1 48	4 4	14 34	15 43	15 19	12 40		n.a.
F 13	22 11	3n32	4 39	19 32	0 37	19 38	2 8	27 1	4 27	19 1	0 40	16 59	1 47	23 58	0 23	3 24	1 48	4 4	14 34	15 43	15 20	12 39		n.a.
S 14	22 2	7 38	5 4	18 57	0 25	19 52	2 5	27 4	4 27	19 4	0 40	17 0	1 47	23 58	0 23	3 24	1 48	4 3	14 33	15 43	15 21	12 37		n.a.
S 15	21 53	11 31	5 15	18 22	0 13	20 6	2 2	27 7	4 27	19 6	0 40	17 1	1 47	23 58	0 23	3 23	1 48	4 3	14 33	15 44	15 22	12 36		n.a.
M16	21 42	14 58	5 9	17 46	0n 0	20 19	1 59	27 10	4 28	19 9	0 40	17 2	1 47	23 58	0 23	3 23	1 48	4 3	14 33	15 44	15 23	12 34		n.a.
T 17	21 32	17 44	4 47	17 11	0 14	20 32	1 56	27 13	4 28	19 11	0 40	17 3	1 47	23 58	0 23	3 22	1 48	4 2	14 32	15 45	15 24	12 33		n.a.
W18	21 21	19 32	4 7	16 37	0 29	20 45	1 53	27 16	4 27	19 13	0 40	17 4	1 48	23 58	0 23	3 22	1 48	4 2	14 32	15 47	15 25	12 31		n.a.
T 19	21 10	20 8	3 10	16 3	0 44	20 56	1 49	27 18	4 27	19 16	0 40	17 5	1 48	23 57	0 23	3 21	1 48	4 1	14 32	15 47	15 26	12 29		n.a.
F 20	20 58	19 22	1 59	15 31	0 59	21 8	1 46	27 20	4 27	19 18	0 40	17 6	1 48	23 57	0 23	3 21	1 48	4 1	14 31	15 48	15 27	12 28		n.a.
S 21	20 46	17 13	0 39	15 1	1 15	21 19	1 43	27 22	4 27	19 20	0 40	17 7	1 48	23 57	0 23	3 20	1 48	4 1	14 31	15 48	15 28	12 26		n.a.
S 22	20 34	13 54	0n44	14 32	1 31	21 29	1 39	27 24	4 26	19 22	0 40	17 8	1 48	23 57	0 23	3 19	1 48	4 0	14 31	15 48	15 29	12 25		n.a.
M23	20 21	9 42	2 4	14 7	1 48	21 38	1 36	27 26	4 25	19 25	0 40	17 9	1 48	23 57	0 23	3 19	1 48	4 0	14 30	15 48	15 30	12 23		n.a.
T 24	20 8	4 58	3 14	13 44	2 4	21 47	1 32	27 27	4 25	19 27	0 40	17 10	1 48	23 57	0 23	3 18	1 48	3 59	14 30	15 48	15 31	12 22		n.a.
W25	19 54	0 4	4 10	13 25	2 20	21 56	1 29	27 28	4 24	19 29	0 40	17 11	1 48	23 57	0 23	3 18	1 48	3 59	14 30	15 47	15 32	12 20		n.a.
T 26	19 40	4s42	4 50	13 10	2 35	22 4	1 25	27 29	4 23	19 31	0 40	17 12	1 48	23 56	0 23	3 17	1 48	3 59	14 29	15 47	15 33	12 18		n.a.
F 27	19 26	9 7	5 12	12 58	2 49	22 11	1 22	27 30	4 22	19 33	0 40	17 12	1 49	23 56	0 23	3 16	1 48	3 58	14 29	15 47	15 34	12 17		n.a.
S 28	19 11	12 58	5 17	12 50	3 3	22 18	1 18	27 31	4 21	19 35	0 40	17 13	1 49	23 56	0 23	3 16	1 48	3 58	14 29	15 47	15 35	12 15		n.a.
S 29	18 56	16 5	5 5	12 46	3 15	22 24	1 15	27 31	4 20	19 37	0 40	17 14	1 49	23 56	0 23	3 15	1 48	3 57	14 29	15 48	15 36	12 14		n.a.
M30	18 41	18 22	4 38	12 46	3 25	22 29	1 11	27 32	4 19	19 39	0 40	17 15	1 49	23 56	0 23	3 14	1 47	3 57	14 28	15 48	15 37	12 12		n.a.
T 31	18s26	19s43	3n59	12s49	3n34	22s34	1n 8	27n32	4n17	19s41	0n40	17s16	1n49	23s56	0s23	3s14	1s47	3s57	14s28	15n48	15n38	12s10		n.a.

Julian Day Number = 1683071.5, Delta T = 03h14m26s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'54, Lahiri = - 5°23'54 Julian Calendar 1 Jan. 105 BCE == Greg. Calendar 29 Dec. 106 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

FEBRUARY 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	8 29 37	9♒10'23	10♉59	15°R 9	29♐31	10°R37	29♏54	24♏12	6♉36	26♓ 5	24♈16	17°R20	17♌51	1♓40	n.a.	W 1
T 2	8 33 33	10°10'32	23° 6	14♒15	0♉42	10♋22	0♐ 2	24°15	6°39	26° 7	24°17	17♌19	17°48	1°47	n.a.	T 2
F 3	8 37 30	11°10'38	5♒ 6	13°17	1°54	10° 8	0°11	24°19	6°42	26° 8	24°17	17°18	17°45	1°53	n.a.	F 3
S 4	8 41 26	12°10'43	16°59	12°17	3° 5	9°54	0°19	24°22	6°45	26°10	24°18	17°D18	17°42	2° 0	n.a.	S 4
S 5	8 45 23	13°10'45	28°48	11°16	4°17	9°42	0°27	24°25	6°48	26°12	24°18	17°18	17°38	2° 7	n.a.	S 5
M 6	8 49 20	14°10'46	10♓36	10°15	5°29	9°30	0°35	24°28	6°51	26°14	24°19	17°19	17°35	2°13	n.a.	M 6
T 7	8 53 16	15°10'44	22°24	9°15	6°40	9°19	0°43	24°31	6°54	26°15	24°19	17°19	17°32	2°20	n.a.	T 7
W 8	8 57 13	16°10'40	4♈15	8°18	7°52	9° 9	0°50	24°33	6°57	26°17	24°20	17°19	17°29	2°27	n.a.	W 8
T 9	9 1 9	17°10'34	16°14	7°25	9° 4	9° 0	0°58	24°36	7° 0	26°19	24°20	17°R19	17°26	2°33	n.a.	T 9
F 10	9 5 6	18°10'26	28°23	6°37	10°15	8°51	1° 5	24°38	7° 2	26°21	24°21	17°19	17°23	2°40	n.a.	F 10
S 11	9 9 2	19°10'15	10♉47	5°54	11°27	8°43	1°13	24°41	7° 5	26°23	24°22	17°19	17°19	2°47	n.a.	S 11
S 12	9 12 59	20°10'02	23°30	5°17	12°39	8°36	1°20	24°43	7° 8	26°25	24°22	17°D19	17°16	2°53	n.a.	S 12
M13	9 16 55	21° 9'47	6♊36	4°46	13°51	8°30	1°27	24°46	7°11	26°27	24°23	17°19	17°13	3° 0	n.a.	M13
T 14	9 20 52	22° 9'29	20° 7	4°22	15° 3	8°25	1°33	24°48	7°14	26°28	24°24	17°20	17°10	3° 7	n.a.	T 14
W15	9 24 49	23° 9'09	4♋ 5	4° 4	16°15	8°20	1°40	24°50	7°16	26°30	24°24	17°20	17° 7	3°13	n.a.	W15
T 16	9 28 45	24° 8'47	18°30	3°52	17°27	8°16	1°47	24°52	7°19	26°32	24°25	17°21	17° 4	3°20	n.a.	T 16
F 17	9 32 42	25° 8'22	3♌18	3°D47	18°38	8°13	1°53	24°54	7°22	26°34	24°26	17°21	17° 0	3°27	n.a.	F 17
S 18	9 36 38	26° 7'55	18°23	3°48	19°50	8°11	1°59	24°56	7°24	26°36	24°27	17°R21	16°57	3°33	n.a.	S 18
S 19	9 40 35	27° 7'26	3♍36	3°54	21° 3	8°10	2° 5	24°57	7°27	26°38	24°27	17°21	16°54	3°40	n.a.	S 19
M20	9 44 31	28° 6'54	18°48	4° 6	22°15	8° 9	2°11	24°59	7°29	26°40	24°28	17°20	16°51	3°46	n.a.	M20
T 21	9 48 28	29° 6'21	3♎49	4°24	23°27	8°D 9	2°17	25° 0	7°32	26°42	24°29	17°19	16°48	3°53	n.a.	T 21
W22	9 52 24	0♓ 5'46	18°31	4°46	24°39	8° 9	2°23	25° 2	7°34	26°44	24°30	17°17	16°44	4° 0	n.a.	W22
T 23	9 56 21	1° 5'08	2♏50	5°13	25°51	8°11	2°28	25° 3	7°37	26°47	24°31	17°16	16°41	4° 6	n.a.	T 23
F 24	10 0 17	2° 4'29	16°41	5°45	27° 3	8°13	2°33	25° 4	7°39	26°49	24°32	17°15	16°38	4°13	n.a.	F 24
S 25	10 4 14	3° 3'48	0♐ 6	6°21	28°15	8°16	2°38	25° 6	7°42	26°51	24°33	17°D14	16°35	4°20	n.a.	S 25
S 26	10 8 11	4° 3'06	13° 5	7° 1	29°28	8°19	2°43	25° 7	7°44	26°53	24°33	17°14	16°32	4°26	n.a.	S 26
M27	10 12 7	5° 2'21	25°44	7°45	0♒40	8°23	2°48	25° 8	7°46	26°55	24°34	17°15	16°29	4°33	n.a.	M27
T 28	10 16 4	6° 1'35	8♑ 5	8°32	1°52	8°28	2°53	25° 8	7°49	26°57	24°35	17°17	16°25	4°40	n.a.	T 28
W29	10 20 0	7♓ 0'46	20♑12	9♒23	3♒ 4	8♋34	2♐57	25♏ 9	7♉51	26♓59	24♈36	17♌18	16♌22	4♓46	n.a.	W29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	18s10	20s 7	3n 8	12s57	3n42	22s38	1n 4	27n32	4n16	19s42	0n40	17s16	1n49	23s56	0s23	3s13	1s47	3s56	14s28	15n49	15n39	12s 9		n.a.
T 2	17 53	19 34	2 11	13 7	3 47	22 42	1 1	27 32	4 15	19 44	0 40	17 17	1 49	23 56	0 23	3 12	1 47	3 56	14 27	15 49	15 40	12 7		n.a.
F 3	17 37	18 7	1 7	13 21	3 50	22 44	0 57	27 31	4 13	19 46	0 40	17 18	1 49	23 55	0 23	3 11	1 47	3 55	14 27	15 49	15 41	12 6		n.a.
S 4	17 20	15 53	0 2	13 37	3 51	22 47	0 54	27 31	4 12	19 48	0 40	17 18	1 49	23 55	0 23	3 11	1 47	3 55	14 27	15 49	15 42	12 4		n.a.
S 5	17 3	13 1	1s 4	13 55	3 49	22 48	0 50	27 30	4 10	19 49	0 40	17 19	1 50	23 55	0 23	3 10	1 47	3 54	14 26	15 49	15 43	12 2		n.a.
M 6	16 45	9 37	2 6	14 15	3 46	22 49	0 46	27 30	4 9	19 51	0 40	17 19	1 50	23 55	0 23	3 9	1 47	3 54	14 26	15 49	15 44	12 1		n.a.
T 7	16 28	5 51	3 3	14 36	3 41	22 49	0 43	27 29	4 7	19 53	0 40	17 20	1 50	23 55	0 23	3 8	1 47	3 53	14 26	15 49	15 45	11 59		n.a.
W 8	16 10	1 51	3 53	14 57	3 33	22 49	0 39	27 28	4 5	19 54	0 40	17 21	1 50	23 55	0 23	3 8	1 47	3 53	14 25	15 49	15 46	11 58		n.a.
T 9	15 52	2n16	4 33	15 19	3 25	22 48	0 36	27 27	4 4	19 56	0 40	17 21	1 50	23 55	0 23	3 7	1 47	3 52	14 25	15 49	15 47	11 56		n.a.
F 10	15 33	6 20	5 1	15 41	3 15	22 46	0 32	27 26	4 2	19 57	0 40	17 22	1 50	23 54	0 23	3 6	1 47	3 52	14 25	15 49	15 48	11 54		n.a.
S 11	15 14	10 13	5 16	16 3	3 3	22 44	0 29	27 24	4 0	19 59	0 40	17 22	1 50	23 54	0 23	3 5	1 47	3 51	14 24	15 49	15 49	11 53		n.a.
S 12	14 55	13 45	5 16	16 23	2 51	22 41	0 25	27 23	3 58	20 0	0 40	17 23	1 50	23 54	0 24	3 5	1 47	3 51	14 24	15 49	15 50	11 51		n.a.
M13	14 36	16 43	5 0	16 43	2 38	22 37	0 22	27 22	3 56	20 2	0 40	17 23	1 51	23 54	0 24	3 4	1 47	3 50	14 24	15 49	15 51	11 49		n.a.
T 14	14 17	18 53	4 28	17 2	2 25	22 33	0 18	27 20	3 54	20 3	0 40	17 23	1 51	23 54	0 24	3 3	1 47	3 50	14 24	15 49	15 52	11 48		n.a.
W15	13 57	20 0	3 38	17 20	2 11	22 28	0 15	27 19	3 53	20 4	0 40	17 24	1 51	23 54	0 24	3 2	1 47	3 49	14 23	15 49	15 53	11 46		n.a.
T 16	13 37	19 52	2 34	17 36	1 57	22 22	0 11	27 17	3 51	20 6	0 40	17 24	1 51	23 54	0 24	3 1	1 47	3 49	14 23	15 49	15 54	11 44		n.a.
F 17	13 17	18 23	1 17	17 51	1 43	22 16	0 8	27 15	3 49	20 7	0 40	17 24	1 51	23 53	0 24	3 0	1 47	3 48	14 23	15 48	15 55	11 43		n.a.
S 18	12 57	15 35	0n 6	18 5	1 29	22 9	0 5	27 13	3 47	20 8	0 40	17 25	1 51	23 53	0 24	3 0	1 47	3 48	14 22	15 48	15 56	11 41		n.a.
S 19	12 36	11 41	1 29	18 17	1 15	22 1	0 1	27 12	3 45	20 9	0 40	17 25	1 51	23 53	0 24	2 59	1 47	3 47	14 22	15 48	15 57	11 39		n.a.
M20	12 16	7 1	2 46	18 28	1 1	21 53	0s 2	27 10	3 43	20 11	0 40	17 25	1 51	23 53	0 24	2 58	1 47	3 46	14 22	15 49	15 58	11 38		n.a.
T 21	11 55	1 59	3 50	18 37	0 47	21 44	0 5	27 8	3 41	20 12	0 40	17 26	1 52	23 53	0 24	2 57	1 47	3 46	14 22	15 49	15 59	11 36		n.a.
W22	11 34	3s 3	4 38	18 44	0 34	21 34	0 8	27 6	3 39	20 13	0 40	17 26	1 52	23 53	0 24	2 56	1 47	3 45	14 21	15 50	16 0	11 35		n.a.
T 23	11 13	7 47	5 7	18 50	0 21	21 24	0 12	27 4	3 37	20 14	0 40	17 26	1 52	23 53	0 24	2 55	1 47	3 45	14 21	15 50	16 1	11 33		n.a.
F 24	10 51	11 57	5 17	18 54	0 9	21 13	0 15	27 2	3 35	20 15	0 40	17 26	1 52	23 53	0 24	2 55	1 47	3 44	14 21	15 50	16 2	11 31		n.a.
S 25	10 30	15 22	5 9	18 57	0s 4	21 2	0 18	26 59	3 33	20 16	0 40	17 26	1 52	23 53	0 24	2 54	1 47	3 44	14 21	15 50	16 2	11 29		n.a.
S 26	10 8	17 54	4 45	18 58	0 15	20 50	0 21	26 57	3 31	20 17	0 40	17 26	1 52	23 52	0 24	2 53	1 47	3 43	14 20	15 50	16 3	11 28		n.a.
M27	9 46	19 30	4 8	18 58	0 26	20 37	0 24	26 55	3 29	20 18	0 40	17 27	1 52	23 52	0 24	2 52	1 47	3 43	14 20	15 50	16 4	11 26		n.a.
T 28	9 24	20 7	3 21	18 56	0 37	20 24	0 27	26 53	3 27	20 19	0 40	17 27	1 52	23 52	0 24	2 51	1 47	3 42	14 20	15 50	16 5	11 24		n.a.
W29	9s 2	19s47	2n25	18s52	0s47	20s10	0s30	26n50	3n25	20s20	0n40	17s27	1n53	23s52	0s24	2s50	1s47	3s41	14s20	15n49	16n 6	11s23		n.a.

Julian Day Number = 1683102.5, Delta T = 03h14m25s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'50, Lahiri = - 5°23'50 Julian Calendar 1 Feb. 105 BCE == Greg. Calendar 29 Jan. 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

MARCH 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 23 57	7♓59'56	2♒ 9	10♒17	4♒17	8♋40	3♐ 1	25♏10	7♉53	27♓ 1	24♈37	17♌20	16♌19	4♓53	n.a.	T 1
F 2	10 27 53	8°59'03	14° 0	11°13	5°29	8°47	3° 6	25°10	7°55	27° 4	24°38	17°R20	16°16	5° 0	n.a.	F 2
S 3	10 31 50	9°58'09	25°48	12°13	6°41	8°54	3° 9	25°11	7°57	27° 6	24°39	17°20	16°13	5° 6	n.a.	S 3
S 4	10 35 46	10°57'13	7♓35	13°15	7°54	9° 2	3°13	25°11	7°59	27° 8	24°40	17°19	16°10	5°13	n.a.	S 4
M 5	10 39 43	11°56'14	19°24	14°20	9° 6	9°11	3°17	25°11	8° 1	27°10	24°41	17°16	16° 6	5°20	n.a.	M 5
T 6	10 43 40	12°55'13	1♈16	15°28	10°19	9°20	3°20	25°12	8° 3	27°12	24°42	17°12	16° 3	5°26	n.a.	T 6
W 7	10 47 36	13°54'10	13°14	16°37	11°31	9°30	3°23	25°R12	8° 5	27°15	24°43	17° 8	16° 0	5°33	n.a.	W 7
T 8	10 51 33	14°53'05	25°19	17°49	12°43	9°41	3°26	25°12	8° 7	27°17	24°44	17° 3	15°57	5°40	n.a.	T 8
F 9	10 55 29	15°51'57	7♉35	19° 3	13°56	9°52	3°29	25°11	8° 9	27°19	24°46	16°58	15°54	5°46	n.a.	F 9
S 10	10 59 26	16°50'47	20° 3	20°20	15° 8	10° 3	3°32	25°11	8°11	27°21	24°47	16°55	15°50	5°53	n.a.	S 10
S 11	11 3 22	17°49'35	2♊46	21°38	16°21	10°15	3°35	25°11	8°12	27°23	24°48	16°52	15°47	6° 0	n.a.	S 11
M12	11 7 19	18°48'21	15°48	22°58	17°33	10°28	3°37	25°10	8°14	27°26	24°49	16°D51	15°44	6° 6	n.a.	M12
T 13	11 11 15	19°47'04	29°11	24°20	18°46	10°41	3°39	25°10	8°16	27°28	24°50	16°52	15°41	6°13	n.a.	T 13
W14	11 15 12	20°45'45	12♋58	25°44	19°58	10°55	3°41	25° 9	8°17	27°30	24°51	16°53	15°38	6°19	n.a.	W14
T 15	11 19 8	21°44'23	27° 8	27°10	21°11	11° 9	3°43	25° 8	8°19	27°32	24°52	16°54	15°35	6°26	n.a.	T 15
F 16	11 23 5	22°42'59	11♌42	28°37	22°23	11°24	3°44	25° 8	8°20	27°35	24°53	16°R55	15°31	6°33	n.a.	F 16
S 17	11 27 2	23°41'33	26°36	0♓ 6	23°36	11°39	3°46	25° 7	8°22	27°37	24°55	16°55	15°28	6°39	n.a.	S 17
S 18	11 30 58	24°40'05	11♍43	1°37	24°49	11°54	3°47	25° 6	8°23	27°39	24°56	16°53	15°25	6°46	n.a.	S 18
M19	11 34 55	25°38'34	26°55	3°10	26° 1	12°10	3°48	25° 5	8°25	27°41	24°57	16°49	15°22	6°53	n.a.	M19
T 20	11 38 51	26°37'02	12♎ 2	4°44	27°14	12°27	3°49	25° 3	8°26	27°44	24°58	16°44	15°19	6°59	n.a.	T 20
W21	11 42 48	27°35'27	26°54	6°20	28°26	12°44	3°49	25° 2	8°27	27°46	24°59	16°38	15°15	7° 6	n.a.	W21
T 22	11 46 44	28°33'51	11♏23	7°58	29°39	13° 1	3°50	25° 1	8°29	27°48	25° 1	16°32	15°12	7°13	n.a.	T 22
F 23	11 50 41	29°32'13	25°25	9°38	0♓52	13°19	3°50	24°59	8°30	27°50	25° 2	16°27	15° 9	7°19	n.a.	F 23
S 24	11 54 37	0♈30'34	8♐57	11°19	2° 4	13°37	3°R50	24°58	8°31	27°53	25° 3	16°23	15° 6	7°26	n.a.	S 24
S 25	11 58 34	1°28'53	22° 2	13° 2	3°17	13°56	3°50	24°56	8°32	27°55	25° 4	16°21	15° 3	7°33	n.a.	S 25
M26	12 2 31	2°27'10	4♉42	14°47	4°30	14°15	3°50	24°54	8°33	27°57	25° 6	16°D20	15° 0	7°39	n.a.	M26
T 27	12 6 27	3°25'26	17° 1	16°33	5°42	14°34	3°49	24°52	8°34	27°59	25° 7	16°21	14°56	7°46	n.a.	T 27
W28	12 10 24	4°23'40	29° 5	18°21	6°55	14°54	3°49	24°51	8°35	28° 2	25° 8	16°22	14°53	7°53	n.a.	W28
T 29	12 14 20	5°21'52	10♒59	20°11	8° 8	15°14	3°48	24°49	8°36	28° 4	25° 9	16°R23	14°50	7°59	n.a.	T 29
F 30	12 18 17	6°20'03	22°46	22° 2	9°20	15°34	3°47	24°46	8°37	28° 6	25°11	16°23	14°47	8° 6	n.a.	F 30
S 31	12 22 13	7♈18'12	4♓33	23♓55	10♓33	15♋55	3♐46	24♏44	8♉38	28♓ 8	25♈12	16♌21	14♌44	8♓13	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	8s40	18s33	1n23	18s47	0s57	19s56	0s33	26n48	3n23	20s20	0n40	17s27	1n53	23s52	0s24	2s49	1s47	3s41	14s19	15n49	16n 7	11s21		n.a.
F 2	8 17	16 31	0 18	18 40	1 7	19 41	0 35	26 46	3 21	20 21	0 40	17 27	1 53	23 52	0 24	2 48	1 47	3 40	14 19	15 49	16 8	11 19		n.a.
S 3	7 55	13 47	0s47	18 32	1 15	19 25	0 38	26 43	3 19	20 22	0 40	17 27	1 53	23 52	0 24	2 48	1 47	3 40	14 19	15 49	16 9	11 18		n.a.
S 4	7 32	10 30	1 49	18 22	1 24	19 9	0 41	26 41	3 17	20 23	0 40	17 27	1 53	23 52	0 24	2 47	1 47	3 39	14 19	15 49	16 10	11 16		n.a.
M 5	7 10	6 48	2 48	18 10	1 31	18 53	0 44	26 38	3 15	20 23	0 40	17 27	1 53	23 52	0 24	2 46	1 46	3 39	14 18	15 50	16 11	11 14		n.a.
T 6	6 47	2 50	3 39	17 57	1 39	18 36	0 46	26 35	3 14	20 24	0 40	17 26	1 53	23 51	0 24	2 45	1 46	3 38	14 18	15 51	16 12	11 13		n.a.
W 7	6 24	1n17	4 21	17 42	1 46	18 18	0 49	26 33	3 12	20 25	0 40	17 26	1 54	23 51	0 24	2 44	1 46	3 37	14 18	15 52	16 13	11 11		n.a.
T 8	6 1	5 23	4 51	17 26	1 52	18 0	0 51	26 30	3 10	20 25	0 40	17 26	1 54	23 51	0 24	2 43	1 46	3 37	14 18	15 54	16 14	11 9		n.a.
F 9	5 38	9 19	5 9	17 8	1 58	17 41	0 54	26 27	3 8	20 26	0 40	17 26	1 54	23 51	0 24	2 42	1 46	3 36	14 17	15 55	16 15	11 7		n.a.
S 10	5 15	12 56	5 13	16 49	2 3	17 22	0 56	26 25	3 6	20 26	0 40	17 26	1 54	23 51	0 24	2 41	1 46	3 36	14 17	15 56	16 16	11 6		n.a.
S 11	4 52	16 1	5 1	16 28	2 8	17 2	0 58	26 22	3 4	20 27	0 40	17 26	1 54	23 51	0 24	2 40	1 46	3 35	14 17	15 57	16 17	11 4		n.a.
M12	4 29	18 24	4 34	16 5	2 12	16 42	1 0	26 19	3 2	20 27	0 40	17 25	1 54	23 51	0 24	2 39	1 46	3 34	14 17	15 57	16 18	11 2		n.a.
T 13	4 5	19 50	3 52	15 41	2 16	16 22	1 3	26 16	3 0	20 28	0 40	17 25	1 54	23 51	0 24	2 39	1 46	3 34	14 17	15 57	16 19	11 1		n.a.
W14	3 42	20 10	2 55	15 16	2 19	16 0	1 5	26 13	2 59	20 28	0 40	17 25	1 54	23 51	0 24	2 38	1 46	3 33	14 16	15 57	16 20	10 59		n.a.
T 15	3 19	19 14	1 46	14 49	2 22	15 39	1 7	26 10	2 57	20 28	0 40	17 25	1 55	23 51	0 24	2 37	1 46	3 33	14 16	15 57	16 21	10 57		n.a.
F 16	2 55	17 1	0 28	14 20	2 24	15 17	1 9	26 7	2 55	20 28	0 40	17 24	1 55	23 51	0 24	2 36	1 46	3 32	14 16	15 56	16 22	10 55		n.a.
S 17	2 32	13 37	0n53	13 50	2 26	14 55	1 11	26 4	2 53	20 29	0 40	17 24	1 55	23 51	0 24	2 35	1 46	3 32	14 16	15 56	16 23	10 54		n.a.
S 18	2 8	9 16	2 11	13 18	2 27	14 32	1 13	26 1	2 51	20 29	0 40	17 24	1 55	23 51	0 24	2 34	1 46	3 31	14 16	15 57	16 24	10 52		n.a.
M19	1 45	4 18	3 21	12 45	2 27	14 9	1 14	25 57	2 50	20 29	0 40	17 23	1 55	23 50	0 24	2 33	1 46	3 30	14 16	15 58	16 24	10 50		n.a.
T 20	1 22	0s54	4 15	12 10	2 28	13 45	1 16	25 54	2 48	20 29	0 40	17 23	1 55	23 50	0 24	2 32	1 46	3 30	14 15	16 0	16 25	10 48		n.a.
W21	0 58	5 56	4 52	11 34	2 27	13 22	1 18	25 51	2 46	20 29	0 40	17 22	1 55	23 50	0 24	2 31	1 46	3 29	14 15	16 2	16 26	10 47		n.a.
T 22	0 35	10 31	5 9	10 56	2 26	12 57	1 19	25 47	2 45	20 30	0 40	17 22	1 55	23 50	0 24	2 30	1 46	3 29	14 15	16 3	16 27	10 45		n.a.
F 23	0 11	14 22	5 6	10 16	2 25	12 33	1 21	25 44	2 43	20 30	0 40	17 22	1 55	23 50	0 24	2 30	1 46	3 28	14 15	16 5	16 28	10 43		n.a.
S 24	0n12	17 19	4 47	9 36	2 23	12 8	1 22	25 40	2 41	20 30	0 40	17 21	1 56	23 50	0 25	2 29	1 46	3 27	14 15	16 6	16 29	10 41		n.a.
S 25	0 36	19 16	4 12	8 54	2 20	11 43	1 24	25 37	2 39	20 30	0 40	17 21	1 56	23 50	0 25	2 28	1 46	3 27	14 15	16 7	16 30	10 40		n.a.
M26	0 59	20 11	3 27	8 10	2 17	11 17	1 25	25 33	2 38	20 30	0 40	17 20	1 56	23 50	0 25	2 27	1 46	3 26	14 14	16 7	16 31	10 38		n.a.
T 27	1 23	20 5	2 32	7 25	2 14	10 51	1 26	25 29	2 36	20 29	0 40	17 20	1 56	23 50	0 25	2 26	1 46	3 26	14 14	16 7	16 32	10 36		n.a.
W28	1 46	19 4	1 32	6 38	2 9	10 25	1 27	25 25	2 35	20 29	0 40	17 19	1 56	23 50	0 25	2 25	1 46	3 25	14 14	16 6	16 33	10 34		n.a.
T 29	2 9	17 12	0 29	5 50	2 5	9 59	1 28	25 21	2 33	20 29	0 40	17 18	1 56	23 50	0 25	2 24	1 46	3 25	14 14	16 6	16 34	10 33		n.a.
F 30	2 33	14 37	0s34	5 1	2 0	9 32	1 29	25 17	2 31	20 29	0 40	17 18	1 56	23 50	0 25	2 23	1 46	3 24	14 14	16 6	16 35	10 31		n.a.
S 31	2n56	11s27	1s36	4s11	1s54	9s 5	1s30	25n13	2n30	20s29	0n40	17s17	1n56	23s50	0s25	2s22	1s46	3s23	14s14	16n 7	16n36	10s29		n.a.

Julian Day Number = 1683131.5, Delta T = 03h14m25s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'46, Lahiri = - 5°23'46 Julian Calendar 1 March 105 BCE == Greg. Calendar 27 Feb. 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

APRIL 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	12 26 10	8♈16'19	16♓21	25♓50	11♓46	16♋16	3°R44	24°R42	8♑38	28♓11	25♈13	16°R17	14♌41	8♓19	n.a.	S 1
M 2	12 30 6	9°14'25	28°14	27°47	12°59	16°37	3♐43	24♏40	8°39	28°13	25°15	16♌11	14°37	8°26	n.a.	M 2
T 3	12 34 3	10°12'29	10♈14	29°45	14°11	16°59	3°41	24°37	8°40	28°15	25°16	16° 2	14°34	8°33	n.a.	T 3
W 4	12 37 59	11°10'31	22°22	1♈45	15°24	17°21	3°39	24°35	8°40	28°17	25°17	15°52	14°31	8°39	n.a.	W 4
T 5	12 41 56	12° 8'31	4♉40	3°47	16°37	17°44	3°37	24°32	8°41	28°20	25°19	15°42	14°28	8°46	n.a.	T 5
F 6	12 45 53	13° 6'30	17° 8	5°50	17°50	18° 7	3°34	24°29	8°42	28°22	25°20	15°32	14°25	8°53	n.a.	F 6
S 7	12 49 49	14° 4'27	29°48	7°55	19° 2	18°30	3°32	24°27	8°42	28°24	25°21	15°23	14°21	8°59	n.a.	S 7
S 8	12 53 46	15° 2'22	12♊40	10° 1	20°15	18°53	3°29	24°24	8°42	28°26	25°23	15°17	14°18	9° 6	n.a.	S 8
M 9	12 57 42	16° 0'15	25°47	12° 8	21°28	19°17	3°26	24°21	8°43	28°28	25°24	15°13	14°15	9°13	n.a.	M 9
T 10	13 1 39	16°58'07	9♋ 9	14°16	22°41	19°41	3°23	24°18	8°43	28°31	25°25	15°11	14°12	9°19	n.a.	T 10
W11	13 5 35	17°55'56	22°49	16°25	23°54	20° 5	3°20	24°15	8°43	28°33	25°27	15°D11	14° 9	9°26	n.a.	W11
T 12	13 9 32	18°53'44	6♌48	18°35	25° 6	20°30	3°16	24°12	8°44	28°35	25°28	15°11	14° 6	9°33	n.a.	T 12
F 13	13 13 28	19°51'29	21° 5	20°46	26°19	20°55	3°13	24° 9	8°44	28°37	25°29	15°R11	14° 2	9°39	n.a.	F 13
S 14	13 17 25	20°49'13	5♍41	22°56	27°32	21°20	3° 9	24° 5	8°44	28°39	25°31	15°10	13°59	9°46	n.a.	S 14
S 15	13 21 22	21°46'55	20°29	25° 7	28°45	21°45	3° 5	24° 2	8°44	28°41	25°32	15° 6	13°56	9°53	n.a.	S 15
M16	13 25 18	22°44'36	5♎25	27°17	29°58	22°10	3° 1	23°59	8°R44	28°43	25°33	14°59	13°53	9°59	n.a.	M16
T 17	13 29 15	23°42'15	20°21	29°27	1♈11	22°36	2°57	23°55	8°44	28°45	25°35	14°51	13°50	10° 6	n.a.	T 17
W18	13 33 11	24°39'52	5♏ 6	1♉36	2°23	23° 2	2°53	23°52	8°44	28°48	25°36	14°41	13°46	10°12	n.a.	W18
T 19	13 37 8	25°37'28	19°33	3°44	3°36	23°29	2°48	23°48	8°44	28°50	25°37	14°30	13°43	10°19	n.a.	T 19
F 20	13 41 4	26°35'03	3♐36	5°51	4°49	23°55	2°43	23°45	8°43	28°52	25°39	14°21	13°40	10°26	n.a.	F 20
S 21	13 45 1	27°32'37	17°12	7°56	6° 2	24°22	2°38	23°41	8°43	28°54	25°40	14°13	13°37	10°32	n.a.	S 21
S 22	13 48 57	28°30'10	0♑20	9°59	7°15	24°49	2°33	23°37	8°43	28°56	25°42	14° 8	13°34	10°39	n.a.	S 22
M23	13 52 54	29°27'42	13° 3	12° 0	8°28	25°16	2°28	23°33	8°43	28°58	25°43	14° 5	13°31	10°46	n.a.	M23
T 24	13 56 51	0♒25'13	25°25	13°58	9°41	25°44	2°23	23°30	8°42	29° 0	25°44	14° 4	13°27	10°52	n.a.	T 24
W25	14 0 47	1°22'43	7♓30	15°55	10°54	26°11	2°17	23°26	8°42	29° 2	25°46	14° 4	13°24	10°59	n.a.	W25
T 26	14 4 44	2°20'12	19°24	17°49	12° 7	26°39	2°12	23°22	8°41	29° 4	25°47	14° 4	13°21	11° 6	n.a.	T 26
F 27	14 8 40	3°17'40	1♈12	19°40	13°20	27° 7	2° 6	23°18	8°41	29° 6	25°48	14° 3	13°18	11°12	n.a.	F 27
S 28	14 12 37	4°15'07	13° 0	21°29	14°33	27°35	2° 0	23°14	8°40	29° 8	25°50	14° 0	13°15	11°19	n.a.	S 28
S 29	14 16 33	5°12'33	24°51	23°15	15°46	28° 4	1°54	23°10	8°40	29°10	25°51	13°54	13°12	11°26	n.a.	S 29
M30	14 20 30	6♉ 9'58	6♈50	24♉58	16♈59	28♋32	1♐48	23♏ 6	8♑39	29♓11	25♈52	13♌46	13♌ 8	11♓32	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	3n19	7s49	2s34	3s19	1s48	8s38	1s31	25n 9	2n28	20s29	0n40	17s17	1n56	23s50	0s25	2s21	1s47	3s23	14s14	16n 8	16n37	10s27		n.a.
M 2	3 42	3 51	3 26	2 26	1 41	8 10	1 32	25 5	2 27	20 28	0 40	17 16	1 56	23 50	0 25	2 21	1 47	3 22	14 14	16 10	16 38	10 26		n.a.
T 3	4 5	0n18	4 8	1 32	1 34	7 43	1 33	25 1	2 25	20 28	0 40	17 15	1 56	23 50	0 25	2 20	1 47	3 22	14 13	16 12	16 39	10 24		n.a.
W 4	4 28	4 28	4 40	0 36	1 26	7 15	1 33	24 56	2 23	20 28	0 40	17 15	1 57	23 50	0 25	2 19	1 47	3 21	14 13	16 15	16 40	10 22		n.a.
T 5	4 51	8 31	4 59	0n20	1 18	6 47	1 34	24 52	2 22	20 27	0 40	17 14	1 57	23 50	0 25	2 18	1 47	3 21	14 13	16 18	16 40	10 20		n.a.
F 6	5 14	12 16	5 5	1 17	1 9	6 18	1 34	24 47	2 20	20 27	0 40	17 13	1 57	23 50	0 25	2 17	1 47	3 20	14 13	16 21	16 41	10 18		n.a.
S 7	5 37	15 31	4 55	2 15	1 0	5 50	1 35	24 42	2 19	20 26	0 40	17 12	1 57	23 50	0 25	2 16	1 47	3 19	14 13	16 24	16 42	10 17		n.a.
S 8	5 59	18 5	4 31	3 14	0 51	5 21	1 35	24 38	2 17	20 26	0 40	17 12	1 57	23 50	0 25	2 15	1 47	3 19	14 13	16 26	16 43	10 15		n.a.
M 9	6 22	19 46	3 52	4 13	0 41	4 53	1 35	24 33	2 16	20 25	0 40	17 11	1 57	23 50	0 25	2 14	1 47	3 18	14 13	16 27	16 44	10 13		n.a.
T 10	6 44	20 24	3 0	5 13	0 31	4 24	1 35	24 28	2 15	20 25	0 40	17 10	1 57	23 50	0 25	2 14	1 47	3 18	14 13	16 28	16 45	10 11		n.a.
W11	7 7	19 50	1 57	6 13	0 21	3 55	1 36	24 23	2 13	20 24	0 40	17 9	1 57	23 50	0 25	2 13	1 47	3 17	14 13	16 28	16 46	10 9		n.a.
T 12	7 29	18 4	0 45	7 12	0 10	3 26	1 36	24 17	2 12	20 23	0 40	17 8	1 57	23 50	0 25	2 12	1 47	3 17	14 13	16 28	16 47	10 8		n.a.
F 13	7 51	15 7	0n31	8 12	0n 0	2 56	1 36	24 12	2 10	20 23	0 40	17 8	1 57	23 50	0 25	2 11	1 47	3 16	14 13	16 28	16 48	10 6		n.a.
S 14	8 13	11 11	1 47	9 11	0 11	2 27	1 36	24 7	2 9	20 22	0 40	17 7	1 57	23 50	0 25	2 10	1 47	3 16	14 13	16 28	16 49	10 4		n.a.
S 15	8 35	6 30	2 56	10 10	0 22	1 58	1 35	24 1	2 7	20 21	0 40	17 6	1 57	23 50	0 25	2 9	1 47	3 15	14 13	16 29	16 50	10 2		n.a.
M16	8 57	1 24	3 54	11 7	0 32	1 28	1 35	23 56	2 6	20 21	0 40	17 5	1 57	23 50	0 25	2 9	1 47	3 15	14 13	16 31	16 51	10 0		n.a.
T 17	9 18	3s47	4 36	12 4	0 42	0 59	1 35	23 50	2 5	20 20	0 40	17 4	1 57	23 50	0 25	2 8	1 47	3 14	14 12	16 34	16 52	9 59		n.a.
W18	9 40	8 41	4 58	12 59	0 53	0 29	1 35	23 44	2 3	20 19	0 40	17 3	1 57	23 50	0 25	2 7	1 47	3 14	14 12	16 37	16 53	9 57		n.a.
T 19	10 1	12 59	5 1	13 53	1 2	0n 1	1 34	23 38	2 2	20 18	0 40	17 2	1 57	23 50	0 25	2 6	1 47	3 13	14 12	16 40	16 53	9 55		n.a.
F 20	10 22	16 26	4 46	14 45	1 12	0 30	1 34	23 32	2 1	20 17	0 40	17 1	1 58	23 50	0 25	2 5	1 47	3 13	14 12	16 43	16 54	9 53		n.a.
S 21	10 43	18 52	4 14	15 35	1 21	1 0	1 33	23 26	1 59	20 16	0 40	17 0	1 58	23 50	0 25	2 5	1 47	3 12	14 12	16 45	16 55	9 51		n.a.
S 22	11 4	20 12	3 30	16 23	1 29	1 30	1 32	23 20	1 58	20 15	0 40	16 59	1 58	23 50	0 25	2 4	1 47	3 12	14 12	16 46	16 56	9 49		n.a.
M23	11 24	20 27	2 37	17 8	1 37	1 59	1 32	23 14	1 57	20 14	0 40	16 58	1 58	23 50	0 25	2 3	1 47	3 11	14 12	16 47	16 57	9 48		n.a.
T 24	11 45	19 42	1 37	17 52	1 44	2 29	1 31	23 7	1 55	20 13	0 39	16 57	1 58	23 50	0 25	2 2	1 47	3 11	14 12	16 48	16 58	9 46		n.a.
W25	12 5	18 2	0 35	18 33	1 51	2 59	1 30	23 1	1 54	20 12	0 39	16 56	1 58	23 50	0 25	2 1	1 47	3 10	14 12	16 48	16 59	9 44		n.a.
T 26	12 25	15 37	0s28	19 12	1 57	3 28	1 29	22 54	1 53	20 11	0 39	16 55	1 58	23 50	0 25	2 1	1 47	3 10	14 12	16 48	17 0	9 42		n.a.
F 27	12 45	12 34	1 30	19 48	2 2	3 58	1 28	22 47	1 51	20 10	0 39	16 54	1 58	23 51	0 26	2 0	1 47	3 9	14 12	16 48	17 1	9 40		n.a.
S 28	13 5	9 1	2 27	20 22	2 7	4 27	1 27	22 40	1 50	20 9	0 39	16 53	1 58	23 51	0 26	1 59	1 47	3 9	14 12	16 49	17 2	9 38		n.a.
S 29	13 24	5 6	3 18	20 54	2 10	4 57	1 26	22 33	1 49	20 8	0 39	16 52	1 58	23 51	0 26	1 58	1 47	3 8	14 12	16 50	17 3	9 36		n.a.
M30	13n43	0s57	4s 1	21n23	2n14	5n26	1s25	22n26	1n48	20s 7	0n39	16s51	1n58	23s51	0s26	1s58	1s47	3s 8	14s12	16n53	17n 4	9s35		n.a.

Julian Day Number = 1683162.5, Delta T = 03h14m24s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'42, Lahiri = - 5°23'42 Julian Calendar 1 Apr. 105 BCE == Greg. Calendar 29 March 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

MAY 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 24 26	7♉ 7'22	18♈59	26♉38	18♈12	29♋ 1	1°R42	23°R 2	8°R38	29♓13	25♈54	13°R35	13♌ 5	11♓39	n.a.	T 1
W 2	14 28 23	8° 4'46	1♉19	28°16	19°25	29°30	1♐36	22♏57	8♑37	29°15	25°55	13♌22	13° 2	11°46	n.a.	W 2
T 3	14 32 20	9° 2'08	13°53	29°50	20°38	29°59	1°29	22°53	8°37	29°17	25°56	13° 9	12°59	11°52	n.a.	T 3
F 4	14 36 16	9°59'29	26°39	1♊22	21°51	0♌29	1°23	22°49	8°36	29°19	25°58	12°57	12°56	11°59	n.a.	F 4
S 5	14 40 13	10°56'50	9♊37	2°50	23° 4	0°59	1°16	22°45	8°35	29°21	25°59	12°45	12°52	12° 6	n.a.	S 5
S 6	14 44 9	11°54'10	22°46	4°16	24°17	1°28	1° 9	22°41	8°34	29°22	26° 0	12°37	12°49	12°12	n.a.	S 6
M 7	14 48 6	12°51'28	6♋ 7	5°38	25°30	1°58	1° 2	22°36	8°33	29°24	26° 2	12°31	12°46	12°19	n.a.	M 7
T 8	14 52 2	13°48'45	19°39	6°58	26°43	2°29	0°55	22°32	8°32	29°26	26° 3	12°28	12°43	12°26	n.a.	T 8
W 9	14 55 59	14°46'02	3♌23	8°14	27°56	2°59	0°48	22°28	8°31	29°28	26° 4	12°27	12°40	12°32	n.a.	W 9
T 10	14 59 55	15°43'17	17°19	9°27	29° 9	3°29	0°41	22°23	8°30	29°29	26° 6	12°27	12°37	12°39	n.a.	T 10
F 11	15 3 52	16°40'31	1♍26	10°37	0♉23	4° 0	0°34	22°19	8°29	29°31	26° 7	12°26	12°33	12°46	n.a.	F 11
S 12	15 7 49	17°37'44	15°45	11°44	1°36	4°31	0°27	22°15	8°27	29°33	26° 8	12°24	12°30	12°52	n.a.	S 12
S 13	15 11 45	18°34'56	0♎13	12°48	2°49	5° 2	0°20	22°10	8°26	29°34	26° 9	12°20	12°27	12°59	n.a.	S 13
M14	15 15 42	19°32'08	14°46	13°47	4° 2	5°33	0°12	22° 6	8°25	29°36	26°11	12°13	12°24	13° 6	n.a.	M14
T 15	15 19 38	20°29'18	29°18	14°44	5°15	6° 4	0° 5	22° 1	8°24	29°38	26°12	12° 4	12°21	13°12	n.a.	T 15
W16	15 23 35	21°26'28	13♏43	15°37	6°28	6°36	29♏57	21°57	8°22	29°39	26°13	11°53	12°18	13°19	n.a.	W16
T 17	15 27 31	22°23'37	27°54	16°26	7°41	7° 7	29°50	21°53	8°21	29°41	26°14	11°42	12°14	13°26	n.a.	T 17
F 18	15 31 28	23°20'46	11♐46	17°11	8°55	7°39	29°42	21°48	8°19	29°42	26°16	11°31	12°11	13°32	n.a.	F 18
S 19	15 35 24	24°17'54	25°15	17°53	10° 8	8°11	29°35	21°44	8°18	29°44	26°17	11°23	12° 8	13°39	n.a.	S 19
S 20	15 39 21	25°15'02	8♑20	18°30	11°21	8°43	29°27	21°39	8°16	29°45	26°18	11°16	12° 5	13°46	n.a.	S 20
M21	15 43 18	26°12'10	21° 3	19° 4	12°34	9°15	29°20	21°35	8°15	29°47	26°19	11°13	12° 2	13°52	n.a.	M21
T 22	15 47 14	27° 9'18	3♒25	19°33	13°48	9°47	29°12	21°31	8°13	29°48	26°20	11°11	11°58	13°59	n.a.	T 22
W23	15 51 11	28° 6'26	15°31	19°58	15° 1	10°20	29° 4	21°26	8°12	29°49	26°22	11°D11	11°55	14° 6	n.a.	W23
T 24	15 55 7	29° 3'33	27°27	20°18	16°14	10°52	28°57	21°22	8°10	29°51	26°23	11°R11	11°52	14°12	n.a.	T 24
F 25	15 59 4	0♊ 0'41	9♓17	20°35	17°27	11°25	28°49	21°18	8° 8	29°52	26°24	11°11	11°49	14°19	n.a.	F 25
S 26	16 3 0	0°57'48	21° 7	20°46	18°41	11°58	28°41	21°13	8° 7	29°53	26°25	11° 9	11°46	14°26	n.a.	S 26
S 27	16 6 57	1°54'56	3♈ 1	20°53	19°54	12°31	28°34	21° 9	8° 5	29°55	26°26	11° 5	11°43	14°32	n.a.	S 27
M28	16 10 53	2°52'03	15° 5	20°R56	21° 7	13° 4	28°26	21° 5	8° 3	29°56	26°27	10°58	11°39	14°39	n.a.	M28
T 29	16 14 50	3°49'11	27°22	20°54	22°21	13°37	28°18	21° 1	8° 1	29°57	26°29	10°50	11°36	14°46	n.a.	T 29
W30	16 18 47	4°46'18	9♉53	20°47	23°34	14°10	28°11	20°56	7°59	29°58	26°30	10°39	11°33	14°52	n.a.	W30
T 31	16 22 43	5♊43'26	22♉42	20♊36	24♉48	14♌44	28♏ 3	20♏52	7♑57	29♓59	26♈31	10♌28	11♌30	14♓59	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
T 1	14n 3	3n18	4s34	21n49	2n16	5n55	1s24	22n19	1n46	20s 6	0n39	16s50	1n58	23s51	0s26	1s57	1s47	3s 7	14s12	16n56	17n 5	9s33		n.a.	T 1
W 2	14 21	7 29	4 54	22 13	2 17	6 24	1 23	22 12	1 45	20 5	0 39	16 49	1 58	23 51	0 26	1 56	1 47	3 7	14 12	17 0	17 5	9 31		n.a.	W 2
T 3	14 40	11 24	5 0	22 35	2 18	6 53	1 21	22 4	1 44	20 3	0 39	16 48	1 58	23 51	0 26	1 56	1 47	3 7	14 12	17 3	17 6	9 29		n.a.	T 3
F 4	14 58	14 53	4 52	22 55	2 18	7 22	1 20	21 57	1 43	20 2	0 39	16 47	1 58	23 51	0 26	1 55	1 47	3 6	14 12	17 7	17 7	9 27		n.a.	F 4
S 5	15 17	17 43	4 28	23 12	2 17	7 51	1 19	21 49	1 42	20 1	0 39	16 46	1 58	23 51	0 26	1 54	1 47	3 6	14 13	17 10	17 8	9 25		n.a.	S 5
S 6	15 35	19 40	3 50	23 27	2 16	8 19	1 17	21 41	1 40	19 59	0 39	16 45	1 58	23 51	0 26	1 54	1 48	3 5	14 13	17 13	17 9	9 23		n.a.	S 6
M 7	15 52	20 35	2 59	23 40	2 14	8 48	1 16	21 33	1 39	19 58	0 38	16 44	1 58	23 51	0 26	1 53	1 48	3 5	14 13	17 14	17 10	9 22		n.a.	M 7
T 8	16 10	20 19	1 57	23 51	2 10	9 16	1 14	21 25	1 38	19 57	0 38	16 43	1 58	23 51	0 26	1 52	1 48	3 4	14 13	17 15	17 11	9 20		n.a.	T 8
W 9	16 27	18 50	0 48	24 0	2 7	9 44	1 13	21 17	1 37	19 55	0 38	16 42	1 58	23 52	0 26	1 52	1 48	3 4	14 13	17 15	17 12	9 18		n.a.	W 9
T 10	16 44	16 14	0n26	24 7	2 2	10 12	1 11	21 8	1 36	19 54	0 38	16 41	1 58	23 52	0 26	1 51	1 48	3 4	14 13	17 16	17 13	9 16		n.a.	T 10
F 11	17 0	12 37	1 39	24 13	1 57	10 39	1 9	21 0	1 35	19 53	0 38	16 40	1 57	23 52	0 26	1 50	1 48	3 3	14 13	17 16	17 14	9 14		n.a.	F 11
S 12	17 17	8 14	2 46	24 16	1 50	11 6	1 7	20 51	1 33	19 51	0 38	16 39	1 57	23 52	0 26	1 50	1 48	3 3	14 13	17 16	17 14	9 12		n.a.	S 12
S 13	17 33	3 20	3 44	24 18	1 43	11 33	1 6	20 43	1 32	19 50	0 38	16 38	1 57	23 52	0 26	1 49	1 48	3 3	14 13	17 17	17 15	9 10		n.a.	S 13
M14	17 49	1s46	4 28	24 18	1 36	12 0	1 4	20 34	1 31	19 48	0 38	16 36	1 57	23 52	0 26	1 48	1 48	3 2	14 13	17 19	17 16	9 8		n.a.	M14
T 15	18 4	6 46	4 54	24 16	1 27	12 27	1 2	20 25	1 30	19 47	0 38	16 35	1 57	23 52	0 26	1 48	1 48	3 2	14 13	17 22	17 17	9 6		n.a.	T 15
W16	18 19	11 21	5 1	24 13	1 18	12 53	1 0	20 16	1 29	19 45	0 38	16 34	1 57	23 52	0 26	1 47	1 48	3 1	14 13	17 25	17 18	9 5		n.a.	W16
T 17	18 34	15 13	4 49	24 8	1 8	13 19	0 58	20 7	1 28	19 44	0 37	16 33	1 57	23 52	0 26	1 47	1 48	3 1	14 13	17 28	17 19	9 3		n.a.	T 17
F 18	18 49	18 9	4 21	24 3	0 58	13 45	0 56	19 57	1 27	19 42	0 37	16 32	1 57	23 52	0 26	1 46	1 48	3 1	14 14	17 31	17 20	9 1		n.a.	F 18
S 19	19 3	19 59	3 38	23 55	0 47	14 10	0 54	19 48	1 26	19 41	0 37	16 31	1 57	23 53	0 26	1 46	1 48	3 0	14 14	17 34	17 21	8 59		n.a.	S 19
S 20	19 17	20 42	2 45	23 47	0 35	14 35	0 52	19 38	1 24	19 39	0 37	16 30	1 57	23 53	0 26	1 45	1 48	3 0	14 14	17 35	17 22	8 57		n.a.	S 20
M21	19 31	20 19	1 45	23 37	0 22	14 59	0 50	19 29	1 23	19 38	0 37	16 29	1 57	23 53	0 26	1 45	1 48	3 0	14 14	17 36	17 23	8 55		n.a.	M21
T 22	19 44	18 56	0 41	23 26	0 9	15 24	0 48	19 19	1 22	19 36	0 37	16 28	1 57	23 53	0 26	1 44	1 48	3 0	14 14	17 37	17 23	8 53		n.a.	T 22
W23	19 58	16 44	0s23	23 15	0s 5	15 48	0 46	19 9	1 21	19 35	0 37	16 27	1 57	23 53	0 26	1 43	1 48	2 59	14 14	17 37	17 24	8 51		n.a.	W23
T 24	20 10	13 50	1 25	23 2	0 19	16 11	0 43	18 59	1 20	19 33	0 36	16 26	1 57	23 53	0 26	1 43	1 48	2 59	14 14	17 37	17 25	8 49		n.a.	T 24
F 25	20 23	10 23	2 24	22 49	0 34	16 34	0 41	18 49	1 19	19 32	0 36	16 25	1 56	23 53	0 26	1 43	1 48	2 59	14 14	17 37	17 26	8 47		n.a.	F 25
S 26	20 35	6 33	3 16	22 34	0 49	16 57	0 39	18 39	1 18	19 30	0 36	16 24	1 56	23 53	0 26	1 42	1 49	2 58	14 14	17 37	17 27	8 45		n.a.	S 26
S 27	20 47	2 26	3 59	22 19	1 4	17 19	0 37	18 28	1 17	19 28	0 36	16 23	1 56	23 54	0 26	1 42	1 49	2 58	14 15	17 38	17 28	8 43		n.a.	S 27
M28	20 58	1n49	4 33	22 4	1 20	17 41	0 34	18 18	1 16	19 27	0 36	16 22	1 56	23 54	0 26	1 41	1 49	2 58	14 15	17 40	17 29	8 42		n.a.	M28
T 29	21 9	6 4	4 55	21 48	1 36	18 3	0 32	18 7	1 15	19 25	0 36	16 21	1 56	23 54	0 26	1 41	1 49	2 58	14 15	17 43	17 30	8 40		n.a.	T 29
W30	21 20	10 9	5 3	21 31	1 52	18 23	0 30	17 56	1 14	19 24	0 36	16 20	1 56	23 54	0 26	1 40	1 49	2 57	14 15	17 46	17 31	8 38		n.a.	W30
T 31	21n30	13n52	4s56	21n14	2s 8	18n44	0s28	17n45	1n13	19s22	0n35	16s19	1n56	23s54	0s26	1s40	1s49	2s57	14s15	17n49	17n32	8s36		n.a.	T 31

Julian Day Number = 1683192.5, Delta T = 03h14m23s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'38, Lahiri = - 5°23'37 Julian Calendar 1 May 105 BCE == Greg. Calendar 28 Apr. 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

JUNE 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	16 26 40	6♊40'34	5♊46	20°R20	26♉ 1	15♌17	27°R56	20°R48	7°R56	0♈ 1	26♈32	10°R17	11♌27	15♓ 6	n.a.	F 1
S 2	16 30 36	7°37'42	19° 5	20♊ 1	27°14	15°51	27♏48	20♏44	7♑54	0° 2	26°33	10♌ 8	11°23	15°12	n.a.	S 2
S 3	16 34 33	8°34'50	2♋38	19°37	28°28	16°25	27°41	20°40	7°52	0° 3	26°34	10° 1	11°20	15°19	n.a.	S 3
M 4	16 38 29	9°31'57	16°21	19°11	29°41	16°59	27°33	20°36	7°50	0° 4	26°35	9°56	11°17	15°26	n.a.	M 4
T 5	16 42 26	10°29'05	0♌13	18°40	0♊55	17°33	27°26	20°32	7°48	0° 5	26°36	9°54	11°14	15°32	n.a.	T 5
W 6	16 46 22	11°26'13	14°11	18° 8	2° 8	18° 7	27°19	20°28	7°46	0° 6	26°37	9°D54	11°11	15°39	n.a.	W 6
T 7	16 50 19	12°23'20	28°15	17°33	3°22	18°41	27°11	20°24	7°44	0° 7	26°38	9°54	11° 8	15°46	n.a.	T 7
F 8	16 54 16	13°20'27	12♍22	16°56	4°35	19°16	27° 4	20°20	7°41	0° 8	26°39	9°R55	11° 4	15°52	n.a.	F 8
S 9	16 58 12	14°17'34	26°33	16°18	5°49	19°50	26°57	20°16	7°39	0° 9	26°40	9°54	11° 1	15°59	n.a.	S 9
S 10	17 2 9	15°14'41	10♎45	15°40	7° 3	20°25	26°50	20°12	7°37	0°10	26°41	9°52	10°58	16° 6	n.a.	S 10
M11	17 6 5	16°11'48	24°56	15° 2	8°16	21° 0	26°43	20° 9	7°35	0°11	26°42	9°47	10°55	16°12	n.a.	M11
T 12	17 10 2	17° 8'55	9♏ 3	14°25	9°30	21°35	26°37	20° 5	7°33	0°11	26°43	9°40	10°52	16°19	n.a.	T 12
W13	17 13 58	18° 6'03	23° 1	13°50	10°43	22°10	26°30	20° 1	7°31	0°12	26°44	9°33	10°49	16°26	n.a.	W13
T 14	17 17 55	19° 3'10	6♐48	13°16	11°57	22°45	26°23	19°58	7°28	0°13	26°45	9°24	10°45	16°32	n.a.	T 14
F 15	17 21 52	20° 0'18	20°19	12°46	13°11	23°20	26°17	19°54	7°26	0°14	26°46	9°17	10°42	16°39	n.a.	F 15
S 16	17 25 48	20°57'27	3♑32	12°19	14°24	23°55	26°11	19°51	7°24	0°14	26°46	9°10	10°39	16°46	n.a.	S 16
S 17	17 29 45	21°54'36	16°26	11°55	15°38	24°31	26° 4	19°47	7°22	0°15	26°47	9° 6	10°36	16°53	n.a.	S 17
M18	17 33 41	22°51'46	29° 1	11°36	16°52	25° 6	25°58	19°44	7°19	0°16	26°48	9° 4	10°33	16°59	n.a.	M18
T 19	17 37 38	23°48'56	11♒20	11°22	18° 5	25°42	25°52	19°41	7°17	0°16	26°49	9°D 3	10°29	17° 6	n.a.	T 19
W20	17 41 34	24°46'07	23°25	11°13	19°19	26°18	25°46	19°38	7°15	0°17	26°50	9° 4	10°26	17°13	n.a.	W20
T 21	17 45 31	25°43'19	5♓21	11°D 9	20°33	26°54	25°41	19°35	7°12	0°17	26°51	9° 6	10°23	17°19	n.a.	T 21
F 22	17 49 27	26°40'32	17°11	11°10	21°47	27°29	25°35	19°31	7°10	0°18	26°51	9° 7	10°20	17°26	n.a.	F 22
S 23	17 53 24	27°37'46	29° 2	11°17	23° 1	28° 6	25°29	19°28	7° 8	0°18	26°52	9°R 7	10°17	17°33	n.a.	S 23
S 24	17 57 21	28°35'01	10♈58	11°30	24°14	28°42	25°24	19°26	7° 5	0°19	26°53	9° 6	10°14	17°39	n.a.	S 24
M25	18 1 17	29°32'16	23° 5	11°49	25°28	29°18	25°19	19°23	7° 3	0°19	26°54	9° 4	10°10	17°46	n.a.	M25
T 26	18 5 14	0♋29'33	5♉25	12°14	26°42	29°54	25°14	19°20	7° 1	0°19	26°54	9° 0	10° 7	17°53	n.a.	T 26
W27	18 9 10	1°26'51	18° 3	12°45	27°56	0♍31	25° 9	19°17	6°58	0°20	26°55	8°54	10° 4	17°59	n.a.	W27
T 28	18 13 7	2°24'10	1♊ 1	13°22	29°10	1° 7	25° 4	19°15	6°56	0°20	26°56	8°49	10° 1	18° 6	n.a.	T 28
F 29	18 17 3	3°21'30	14°19	14° 4	0♋24	1°44	24°59	19°12	6°53	0°20	26°56	8°43	9°58	18°13	n.a.	F 29
S 30	18 21 0	4♋18'51	27♊57	14♊53	1♋38	2♍21	24♏55	19♏10	6♑51	0♈21	26♈57	8♌38	9♌55	18♓19	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	21n40	17n 1	4s34	20n57	2s24	19n 4	0s25	17n34	1n12	19s21	0n35	16s18	1n56	23s54	0s26	1s39	1s49	2s57	14s15	17n52	17n32	8s34		n.a.
S 2	21 50	19 19	3 57	20 40	2 40	19 23	0 23	17 23	1 11	19 19	0 35	16 17	1 56	23 54	0 26	1 39	1 49	2 57	14 16	17 54	17 33	8 32		n.a.
S 3	21 59	20 36	3 5	20 23	2 55	19 42	0 20	17 12	1 10	19 18	0 35	16 16	1 55	23 55	0 26	1 39	1 49	2 56	14 16	17 56	17 34	8 30		n.a.
M 4	22 8	20 40	2 2	20 7	3 10	20 1	0 18	17 1	1 9	19 16	0 35	16 15	1 55	23 55	0 26	1 38	1 49	2 56	14 16	17 57	17 35	8 28		n.a.
T 5	22 16	19 29	0 52	19 50	3 24	20 19	0 16	16 49	1 8	19 15	0 35	16 14	1 55	23 55	0 26	1 38	1 49	2 56	14 16	17 58	17 36	8 26		n.a.
W 6	22 24	17 7	0n23	19 34	3 37	20 36	0 13	16 38	1 7	19 13	0 34	16 13	1 55	23 55	0 26	1 38	1 49	2 56	14 16	17 58	17 37	8 24		n.a.
T 7	22 32	13 44	1 37	19 19	3 49	20 53	0 11	16 26	1 6	19 12	0 34	16 12	1 55	23 55	0 26	1 37	1 49	2 56	14 16	17 58	17 38	8 22		n.a.
F 8	22 39	9 32	2 45	19 5	4 0	21 9	0 9	16 14	1 5	19 10	0 34	16 11	1 55	23 55	0 26	1 37	1 49	2 55	14 17	17 58	17 39	8 20		n.a.
S 9	22 46	4 48	3 43	18 51	4 9	21 25	0 6	16 2	1 4	19 9	0 34	16 10	1 55	23 55	0 27	1 37	1 49	2 55	14 17	17 58	17 39	8 18		n.a.
S 10	22 53	0s12	4 28	18 39	4 18	21 40	0 4	15 50	1 3	19 7	0 34	16 9	1 55	23 56	0 27	1 36	1 49	2 55	14 17	17 59	17 40	8 16		n.a.
M11	22 59	5 10	4 56	18 28	4 25	21 55	0 1	15 38	1 2	19 6	0 34	16 8	1 54	23 56	0 27	1 36	1 50	2 55	14 17	18 0	17 41	8 14		n.a.
T 12	23 5	9 50	5 6	18 19	4 30	22 8	0n 1	15 26	1 1	19 4	0 33	16 8	1 54	23 56	0 27	1 36	1 50	2 55	14 17	18 2	17 42	8 12		n.a.
W13	23 10	13 56	4 58	18 11	4 34	22 22	0 3	15 13	1 0	19 3	0 33	16 7	1 54	23 56	0 27	1 36	1 50	2 55	14 18	18 4	17 43	8 10		n.a.
T 14	23 15	17 13	4 33	18 5	4 36	22 34	0 6	15 1	0 59	19 2	0 33	16 6	1 54	23 56	0 27	1 35	1 50	2 55	14 18	18 6	17 44	8 8		n.a.
F 15	23 19	19 29	3 52	18 0	4 37	22 46	0 8	14 48	0 58	19 0	0 33	16 5	1 54	23 56	0 27	1 35	1 50	2 54	14 18	18 8	17 45	8 6		n.a.
S 16	23 24	20 40	3 0	17 58	4 36	22 58	0 11	14 35	0 57	18 59	0 33	16 4	1 54	23 56	0 27	1 35	1 50	2 54	14 18	18 10	17 46	8 4		n.a.
S 17	23 27	20 43	1 59	17 57	4 33	23 8	0 13	14 23	0 56	18 58	0 32	16 4	1 53	23 57	0 27	1 35	1 50	2 54	14 18	18 11	17 46	8 2		n.a.
M18	23 31	19 42	0 54	17 59	4 29	23 18	0 15	14 10	0 55	18 56	0 32	16 3	1 53	23 57	0 27	1 34	1 50	2 54	14 19	18 11	17 47	8 0		n.a.
T 19	23 34	17 46	0s12	18 2	4 24	23 28	0 18	13 57	0 54	18 55	0 32	16 2	1 53	23 57	0 27	1 34	1 50	2 54	14 19	18 12	17 48	7 58		n.a.
W20	23 36	15 5	1 17	18 8	4 17	23 36	0 20	13 43	0 53	18 54	0 32	16 2	1 53	23 57	0 27	1 34	1 50	2 54	14 19	18 11	17 49	7 57		n.a.
T 21	23 38	11 47	2 18	18 15	4 9	23 44	0 22	13 30	0 52	18 53	0 32	16 1	1 53	23 57	0 27	1 34	1 50	2 54	14 19	18 11	17 50	7 55		n.a.
F 22	23 40	8 3	3 12	18 24	4 0	23 51	0 25	13 17	0 51	18 52	0 31	16 0	1 52	23 57	0 27	1 34	1 50	2 54	14 19	18 11	17 51	7 53		n.a.
S 23	23 41	4 1	3 58	18 35	3 50	23 58	0 27	13 3	0 50	18 51	0 31	16 0	1 52	23 57	0 27	1 34	1 50	2 54	14 20	18 10	17 52	7 51		n.a.
S 24	23 42	0n11	4 34	18 47	3 39	24 4	0 29	12 50	0 49	18 49	0 31	15 59	1 52	23 58	0 27	1 34	1 50	2 54	14 20	18 11	17 53	7 49		n.a.
M25	23 42	4 27	4 59	19 2	3 28	24 9	0 31	12 36	0 49	18 48	0 31	15 58	1 52	23 58	0 27	1 33	1 50	2 54	14 20	18 11	17 53	7 47		n.a.
T 26	23 42	8 36	5 10	19 17	3 15	24 13	0 33	12 22	0 48	18 47	0 31	15 58	1 52	23 58	0 27	1 33	1 51	2 54	14 20	18 12	17 54	7 45		n.a.
W27	23 42	12 29	5 7	19 34	3 2	24 17	0 36	12 8	0 47	18 46	0 30	15 57	1 52	23 58	0 27	1 33	1 51	2 54	14 21	18 14	17 55	7 43		n.a.
T 28	23 41	15 54	4 48	19 52	2 49	24 20	0 38	11 55	0 46	18 45	0 30	15 57	1 51	23 58	0 27	1 33	1 51	2 54	14 21	18 15	17 56	7 41		n.a.
F 29	23 40	18 35	4 13	20 11	2 35	24 22	0 40	11 40	0 45	18 44	0 30	15 56	1 51	23 58	0 27	1 33	1 51	2 54	14 21	18 17	17 57	7 39		n.a.
S 30	23n38	20n18	3s23	20n31	2s21	24n24	0n42	11n26	0n44	18s44	0n30	15s56	1n51	23s58	0s27	1s33	1s51	2s54	14s21	18n18	17n58	7s37		n.a.

Julian Day Number = 1683223.5, Delta T = 03h14m22s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'34, Lahiri = - 5°23'33 Julian Calendar 1 June 105 BCE == Greg. Calendar 29 May 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

JULY 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	18 24 56	5♋16'13	11♋52	15♊47	2♋52	2♍57	24°R51	19°R 7	6°R49	0♈21	26♈57	8°R34	9♌51	18♓26	n.a.	S 1
M 2	18 28 53	6°13'36	26° 0	16°47	4° 6	3°34	24♏47	19♏ 5	6♑46	0°21	26°58	8♌32	9°48	18°33	n.a.	M 2
T 3	18 32 50	7°11'00	10♌18	17°52	5°20	4°11	24°43	19° 3	6°44	0°21	26°59	8°D31	9°45	18°39	n.a.	T 3
W 4	18 36 46	8° 8'25	24°39	19° 3	6°34	4°49	24°39	19° 1	6°41	0°21	26°59	8°32	9°42	18°46	n.a.	W 4
T 5	18 40 43	9° 5'50	9♍ 2	20°20	7°48	5°26	24°35	18°58	6°39	0°21	27° 0	8°33	9°39	18°53	n.a.	T 5
F 6	18 44 39	10° 3'16	23°21	21°41	9° 2	6° 3	24°32	18°57	6°37	0°21	27° 0	8°35	9°35	18°59	n.a.	F 6
S 7	18 48 36	11° 0'43	7♎34	23° 7	10°16	6°40	24°28	18°55	6°34	0°R21	27° 1	8°R36	9°32	19° 6	n.a.	S 7
S 8	18 52 32	11°58'11	21°40	24°38	11°30	7°18	24°25	18°53	6°32	0°21	27° 1	8°35	9°29	19°13	n.a.	S 8
M 9	18 56 29	12°55'40	5♏36	26°13	12°44	7°56	24°22	18°51	6°29	0°21	27° 2	8°34	9°26	19°19	n.a.	M 9
T 10	19 0 25	13°53'09	19°22	27°53	13°58	8°33	24°20	18°50	6°27	0°21	27° 2	8°31	9°23	19°26	n.a.	T 10
W11	19 4 22	14°50'40	2♐56	29°36	15°13	9°11	24°17	18°48	6°25	0°21	27° 3	8°28	9°20	19°33	n.a.	W11
T 12	19 8 19	15°48'12	16°16	1♋23	16°27	9°49	24°15	18°47	6°22	0°21	27° 3	8°25	9°16	19°39	n.a.	T 12
F 13	19 12 15	16°45'45	29°23	3°12	17°41	10°27	24°13	18°45	6°20	0°21	27° 3	8°22	9°13	19°46	n.a.	F 13
S 14	19 16 12	17°43'19	12♑15	5° 5	18°55	11° 5	24°11	18°44	6°18	0°20	27° 4	8°19	9°10	19°53	n.a.	S 14
S 15	19 20 8	18°40'55	24°52	7° 0	20° 9	11°43	24° 9	18°43	6°15	0°20	27° 4	8°18	9° 7	19°59	n.a.	S 15
M16	19 24 5	19°38'32	7♒16	8°57	21°23	12°21	24° 7	18°42	6°13	0°20	27° 4	8°D17	9° 4	20° 6	n.a.	M16
T 17	19 28 1	20°36'10	19°27	10°55	22°38	12°59	24° 6	18°41	6°11	0°20	27° 5	8°17	9° 1	20°13	n.a.	T 17
W18	19 31 58	21°33'50	1♓28	12°55	23°52	13°38	24° 4	18°40	6° 8	0°19	27° 5	8°18	8°57	20°19	n.a.	W18
T 19	19 35 54	22°31'31	13°22	14°55	25° 6	14°16	24° 3	18°39	6° 6	0°19	27° 5	8°20	8°54	20°26	n.a.	T 19
F 20	19 39 51	23°29'14	25°12	16°56	26°21	14°55	24° 2	18°38	6° 4	0°19	27° 5	8°21	8°51	20°33	n.a.	F 20
S 21	19 43 48	24°26'59	7♈ 3	18°58	27°35	15°33	24° 2	18°38	6° 2	0°18	27° 6	8°22	8°48	20°40	n.a.	S 21
S 22	19 47 44	25°24'46	18°59	20°59	28°49	16°12	24° 1	18°37	5°59	0°18	27° 6	8°23	8°45	20°46	n.a.	S 22
M23	19 51 41	26°22'34	1♉ 4	23° 0	0♌ 4	16°51	24° 1	18°37	5°57	0°17	27° 6	8°R23	8°41	20°53	n.a.	M23
T 24	19 55 37	27°20'24	13°24	25° 0	1°18	17°30	24°D 0	18°37	5°55	0°17	27° 6	8°22	8°38	21° 0	n.a.	T 24
W25	19 59 34	28°18'16	26° 2	27° 0	2°32	18° 9	24° 1	18°36	5°53	0°16	27° 6	8°22	8°35	21° 6	n.a.	W25
T 26	20 3 30	29°16'10	9♊ 2	28°59	3°47	18°48	24° 1	18°36	5°51	0°15	27° 6	8°20	8°32	21°13	n.a.	T 26
F 27	20 7 27	0♌14'06	22°25	0♌57	5° 1	19°27	24° 1	18°D36	5°48	0°15	27° 6	8°19	8°29	21°20	n.a.	F 27
S 28	20 11 23	1°12'04	6♋13	2°54	6°16	20° 6	24° 2	18°36	5°46	0°14	27° 6	8°19	8°26	21°26	n.a.	S 28
S 29	20 15 20	2°10'04	20°23	4°50	7°30	20°46	24° 3	18°36	5°44	0°13	27° 7	8°18	8°22	21°33	n.a.	S 29
M30	20 19 17	3° 8'05	4♌52	6°45	8°44	21°25	24° 3	18°37	5°42	0°13	27° 7	8°D18	8°19	21°40	n.a.	M30
T 31	20 23 13	4♌ 6'09	19♌34	8♌39	9♌59	22♍ 4	24♏ 5	18♏37	5♑40	0♈12	27°R 7	8♌18	8♌16	21♓46	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	23n36	20n50	2s21	20n51	2s 6	24n24	0n44	11n12	0n43	18s43	0n30	15s55	1n51	23s58	0s27	1s33	1s51	2s54	14s22	18n19	17n59	7s34			n.a.
M 2	23 33	20 4	1 8	21 12	1 51	24 24	0 46	10 58	0 42	18 42	0 29	15 55	1 51	23 59	0 27	1 33	1 51	2 54	14 22	18 20	17 59	7 32			n.a.
T 3	23 31	18 1	0n10	21 32	1 37	24 24	0 48	10 43	0 41	18 41	0 29	15 54	1 50	23 59	0 27	1 33	1 51	2 54	14 22	18 20	18 0	7 30			n.a.
W 4	23 27	14 49	1 27	21 53	1 22	24 22	0 50	10 29	0 40	18 40	0 29	15 54	1 50	23 59	0 27	1 33	1 51	2 54	14 22	18 20	18 1	7 28			n.a.
T 5	23 23	10 44	2 39	22 14	1 8	24 20	0 52	10 14	0 39	18 40	0 29	15 54	1 50	23 59	0 27	1 33	1 51	2 54	14 23	18 19	18 2	7 26			n.a.
F 6	23 19	6 3	3 41	22 33	0 53	24 17	0 54	9 59	0 39	18 39	0 29	15 53	1 50	23 59	0 27	1 33	1 51	2 54	14 23	18 19	18 3	7 24			n.a.
S 7	23 15	1 5	4 29	22 52	0 39	24 13	0 55	9 45	0 38	18 38	0 28	15 53	1 49	23 59	0 27	1 33	1 51	2 54	14 23	18 19	18 4	7 22			n.a.
S 8	23 10	3s54	5 1	23 10	0 25	24 9	0 57	9 30	0 37	18 38	0 28	15 53	1 49	23 59	0 27	1 33	1 51	2 54	14 23	18 19	18 5	7 20			n.a.
M 9	23 4	8 37	5 14	23 27	0 12	24 4	0 59	9 15	0 36	18 37	0 28	15 53	1 49	24 0	0 27	1 33	1 51	2 54	14 24	18 19	18 5	7 18			n.a.
T 10	22 58	12 49	5 8	23 42	0n 1	23 58	1 1	9 0	0 35	18 37	0 28	15 52	1 49	24 0	0 27	1 34	1 51	2 54	14 24	18 20	18 6	7 16			n.a.
W11	22 52	16 18	4 46	23 56	0 13	23 51	1 2	8 45	0 34	18 36	0 28	15 52	1 49	24 0	0 27	1 34	1 52	2 54	14 24	18 21	18 7	7 14			n.a.
T 12	22 46	18 52	4 8	24 7	0 25	23 44	1 4	8 29	0 33	18 36	0 27	15 52	1 48	24 0	0 27	1 34	1 52	2 54	14 24	18 22	18 8	7 12			n.a.
F 13	22 38	20 24	3 18	24 16	0 36	23 36	1 5	8 14	0 32	18 36	0 27	15 52	1 48	24 0	0 27	1 34	1 52	2 55	14 25	18 23	18 9	7 10			n.a.
S 14	22 31	20 50	2 19	24 23	0 46	23 27	1 7	7 59	0 32	18 35	0 27	15 52	1 48	24 0	0 27	1 34	1 52	2 55	14 25	18 23	18 10	7 8			n.a.
S 15	22 23	20 11	1 13	24 27	0 56	23 18	1 8	7 43	0 31	18 35	0 27	15 52	1 48	24 0	0 27	1 34	1 52	2 55	14 25	18 24	18 11	7 6			n.a.
M16	22 15	18 34	0 6	24 28	1 4	23 8	1 10	7 28	0 30	18 35	0 26	15 51	1 48	24 0	0 27	1 34	1 52	2 55	14 25	18 24	18 11	7 4			n.a.
T 17	22 6	16 7	1s 1	24 27	1 12	22 57	1 11	7 12	0 29	18 35	0 26	15 51	1 47	24 0	0 27	1 35	1 52	2 55	14 26	18 24	18 12	7 2			n.a.
W18	21 57	13 1	2 5	24 23	1 19	22 45	1 12	6 56	0 28	18 35	0 26	15 51	1 47	24 1	0 27	1 35	1 52	2 55	14 26	18 23	18 13	7 0			n.a.
T 19	21 48	9 24	3 2	24 17	1 26	22 33	1 13	6 41	0 27	18 35	0 26	15 51	1 47	24 1	0 27	1 35	1 52	2 55	14 26	18 23	18 14	6 58			n.a.
F 20	21 38	5 27	3 51	24 7	1 31	22 20	1 15	6 25	0 27	18 35	0 26	15 51	1 47	24 1	0 27	1 35	1 52	2 56	14 27	18 23	18 15	6 56			n.a.
S 21	21 28	1 19	4 31	23 55	1 36	22 7	1 16	6 9	0 26	18 35	0 25	15 51	1 46	24 1	0 27	1 35	1 52	2 56	14 27	18 22	18 16	6 54			n.a.
S 22	21 18	2n55	4 59	23 41	1 39	21 53	1 17	5 53	0 25	18 35	0 25	15 52	1 46	24 1	0 27	1 36	1 52	2 56	14 27	18 22	18 16	6 52			n.a.
M23	21 7	7 4	5 14	23 24	1 42	21 38	1 18	5 37	0 24	18 35	0 25	15 52	1 46	24 1	0 27	1 36	1 52	2 56	14 27	18 22	18 17	6 50			n.a.
T 24	20 55	11 1	5 16	23 5	1 45	21 22	1 19	5 21	0 23	18 35	0 25	15 52	1 46	24 1	0 27	1 36	1 52	2 56	14 28	18 22	18 18	6 48			n.a.
W25	20 44	14 35	5 2	22 44	1 46	21 6	1 20	5 5	0 22	18 35	0 25	15 52	1 45	24 1	0 27	1 36	1 52	2 57	14 28	18 23	18 19	6 45			n.a.
T 26	20 32	17 33	4 33	22 20	1 47	20 49	1 20	4 49	0 22	18 35	0 24	15 52	1 45	24 1	0 27	1 37	1 52	2 57	14 28	18 23	18 20	6 43			n.a.
F 27	20 20	19 42	3 48	21 55	1 47	20 32	1 21	4 32	0 21	18 36	0 24	15 52	1 45	24 1	0 27	1 37	1 53	2 57	14 28	18 23	18 21	6 41			n.a.
S 28	20 7	20 45	2 49	21 27	1 47	20 14	1 22	4 16	0 20	18 36	0 24	15 53	1 45	24 2	0 27	1 37	1 53	2 57	14 29	18 23	18 22	6 39			n.a.
S 29	19 54	20 32	1 38	20 59	1 46	19 56	1 23	4 0	0 19	18 36	0 24	15 53	1 45	24 2	0 27	1 38	1 53	2 58	14 29	18 24	18 22	6 37			n.a.
M30	19 40	18 57	0 19	20 28	1 44	19 37	1 23	3 43	0 18	18 37	0 24	15 53	1 44	24 2	0 27	1 38	1 53	2 58	14 29	18 24	18 23	6 35			n.a.
T 31	19n27	16n 6	1n 2	19n56	1n42	19n17	1n24	3n27	0n17	18s37	0n23	15s53	1n44	24s 2	0s27	1s38	1s53	2s58	14s30	18n24	18n24	6s33			n.a.

Julian Day Number = 1683253.5, Delta T = 03h14m21s
Ecliptic obliquity = 23°42'21, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'30, Lahiri = - 5°23'29 Julian Calendar 1 July 105 BCE == Greg. Calendar 28 June 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

AUGUST 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	20 27 10	5♌ 4'13	4♍21	10♌32	11♌13	22♍44	24♏ 6	18♏38	5°R38	0°R11	27°R 7	8♌18	8♌13	21♓53	n.a.	W 1
T 2	20 31 6	6° 2'19	19° 8	12°23	12°28	23°24	24° 8	18°38	5♉36	0♈10	27♈ 6	8°18	8°10	22° 0	n.a.	T 2
F 3	20 35 3	7° 0'27	3♎48	14°13	13°42	24° 3	24° 9	18°39	5°34	0° 9	27° 6	8°18	8° 7	22° 6	n.a.	F 3
S 4	20 38 59	7°58'37	18°14	16° 2	14°57	24°43	24°11	18°40	5°32	0° 9	27° 6	8°R19	8° 3	22°13	n.a.	S 4
S 5	20 42 56	8°56'47	2♏24	17°50	16°11	25°23	24°13	18°40	5°31	0° 8	27° 6	8°D19	8° 0	22°20	n.a.	S 5
M 6	20 46 52	9°55'00	16°17	19°36	17°26	26° 3	24°16	18°41	5°29	0° 7	27° 6	8°19	7°57	22°26	n.a.	M 6
T 7	20 50 49	10°53'14	29°51	21°22	18°41	26°43	24°18	18°42	5°27	0° 6	27° 6	8°19	7°54	22°33	n.a.	T 7
W 8	20 54 46	11°51'30	13♐ 7	23° 6	19°55	27°23	24°21	18°44	5°25	0° 5	27° 6	8°19	7°51	22°40	n.a.	W 8
T 9	20 58 42	12°49'47	26° 7	24°49	21°10	28° 4	24°23	18°45	5°23	0° 4	27° 6	8°19	7°47	22°47	n.a.	T 9
F 10	21 2 39	13°48'06	8♑52	26°30	22°24	28°44	24°26	18°46	5°22	0° 3	27° 5	8°20	7°44	22°53	n.a.	F 10
S 11	21 6 35	14°46'27	21°23	28°11	23°39	29°24	24°30	18°47	5°20	0° 2	27° 5	8°20	7°41	23° 0	n.a.	S 11
S 12	21 10 32	15°44'50	3♒44	29°50	24°53	0♎ 5	24°33	18°49	5°18	0° 1	27° 5	8°R21	7°38	23° 7	n.a.	S 12
M13	21 14 28	16°43'14	15°54	1♍29	26° 8	0°45	24°37	18°51	5°17	29♓59	27° 5	8°21	7°35	23°13	n.a.	M13
T 14	21 18 25	17°41'41	27°56	3° 6	27°22	1°26	24°40	18°52	5°15	29°59	27° 4	8°20	7°32	23°20	n.a.	T 14
W15	21 22 21	18°40'09	9♓52	4°42	28°37	2° 6	24°44	18°54	5°14	29°57	27° 4	8°19	7°28	23°27	n.a.	W15
T 16	21 26 18	19°38'40	21°43	6°17	29°52	2°47	24°48	18°56	5°12	29°56	27° 4	8°18	7°25	23°33	n.a.	T 16
F 17	21 30 15	20°37'12	3♈33	7°51	1♍ 6	3°28	24°52	18°58	5°11	29°55	27° 3	8°16	7°22	23°40	n.a.	F 17
S 18	21 34 11	21°35'47	15°24	9°24	2°21	4° 9	24°57	19° 0	5° 9	29°54	27° 3	8°14	7°19	23°47	n.a.	S 18
S 19	21 38 8	22°34'25	27°20	10°56	3°36	4°50	25° 1	19° 2	5° 8	29°53	27° 3	8°12	7°16	23°53	n.a.	S 19
M20	21 42 4	23°33'04	9♉24	12°26	4°50	5°31	25° 6	19° 5	5° 6	29°51	27° 2	8°11	7°12	24° 0	n.a.	M20
T 21	21 46 1	24°31'46	21°40	13°56	6° 5	6°12	25°11	19° 7	5° 5	29°50	27° 2	8°D10	7° 9	24° 7	n.a.	T 21
W22	21 49 57	25°30'30	4♊14	15°25	7°19	6°53	25°16	19° 9	5° 4	29°49	27° 1	8°11	7° 6	24°13	n.a.	W22
T 23	21 53 54	26°29'17	17° 9	16°52	8°34	7°35	25°21	19°12	5° 3	29°47	27° 1	8°11	7° 3	24°20	n.a.	T 23
F 24	21 57 50	27°28'06	0♋28	18°19	9°49	8°16	25°27	19°14	5° 1	29°46	27° 0	8°13	7° 0	24°27	n.a.	F 24
S 25	22 1 47	28°26'57	14°14	19°44	11° 3	8°58	25°32	19°17	5° 0	29°45	27° 0	8°14	6°57	24°33	n.a.	S 25
S 26	22 5 43	29°25'51	28°27	21° 9	12°18	9°39	25°38	19°20	4°59	29°43	26°59	8°15	6°53	24°40	n.a.	S 26
M27	22 9 40	0♍24'47	13♌ 4	22°32	13°33	10°21	25°44	19°23	4°58	29°42	26°59	8°R15	6°50	24°47	n.a.	M27
T 28	22 13 37	1°23'45	28° 0	23°54	14°47	11° 2	25°50	19°26	4°57	29°40	26°58	8°14	6°47	24°54	n.a.	T 28
W29	22 17 33	2°22'45	13♍ 7	25°15	16° 2	11°44	25°56	19°29	4°56	29°39	26°58	8°12	6°44	25° 0	n.a.	W29
T 30	22 21 30	3°21'47	28°16	26°34	17°17	12°26	26° 3	19°32	4°55	29°37	26°57	8° 9	6°41	25° 7	n.a.	T 30
F 31	22 25 26	4♍20'51	13♎18	27♍53	18♍32	13♎ 8	26♏ 9	19♏35	4♑55	29♓36	26♈56	8♌ 6	6♌38	25♓14	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	19n13	12n11	2n20	19n23	1n39	18n57	1n24	3n10	0n17	18s38	0n23	15s54	1n44	24s 2	0s27	1s39	1s53	2s58	14s30	18n24	18n25	6s31			n.a.
T 2	18 58	7 32	3 28	18 49	1 36	18 36	1 24	2 54	0 16	18 38	0 23	15 54	1 44	24 2	0 27	1 39	1 53	2 59	14 30	18 23	18 26	6 29			n.a.
F 3	18 44	2 28	4 22	18 13	1 33	18 15	1 25	2 37	0 15	18 39	0 23	15 55	1 43	24 2	0 27	1 40	1 53	2 59	14 30	18 23	18 27	6 27			n.a.
S 4	18 29	2s38	4 58	17 37	1 29	17 53	1 25	2 20	0 14	18 40	0 23	15 55	1 43	24 2	0 27	1 40	1 53	2 59	14 31	18 23	18 27	6 25			n.a.
S 5	18 13	7 30	5 16	17 0	1 25	17 31	1 25	2 3	0 13	18 40	0 22	15 55	1 43	24 2	0 27	1 40	1 53	2 59	14 31	18 23	18 28	6 23			n.a.
M 6	17 58	11 52	5 14	16 22	1 20	17 8	1 25	1 47	0 13	18 41	0 22	15 56	1 43	24 2	0 27	1 41	1 53	3 0	14 31	18 23	18 29	6 20			n.a.
T 7	17 42	15 32	4 55	15 43	1 15	16 45	1 25	1 30	0 12	18 42	0 22	15 56	1 42	24 2	0 27	1 41	1 53	3 0	14 31	18 23	18 30	6 18			n.a.
W 8	17 25	18 19	4 21	15 4	1 10	16 21	1 25	1 13	0 11	18 43	0 22	15 57	1 42	24 2	0 27	1 42	1 53	3 0	14 32	18 23	18 31	6 16			n.a.
T 9	17 9	20 5	3 34	14 24	1 4	15 57	1 25	0 56	0 10	18 44	0 22	15 58	1 42	24 2	0 27	1 42	1 53	3 1	14 32	18 23	18 31	6 14			n.a.
F 10	16 52	20 48	2 36	13 44	0 58	15 32	1 25	0 39	0 9	18 45	0 21	15 58	1 42	24 3	0 27	1 43	1 53	3 1	14 32	18 23	18 32	6 12			n.a.
S 11	16 35	20 27	1 33	13 3	0 52	15 7	1 25	0 22	0 9	18 46	0 21	15 59	1 42	24 3	0 27	1 43	1 53	3 1	14 33	18 23	18 33	6 10			n.a.
S 12	16 18	19 7	0 26	12 22	0 46	14 42	1 25	0 5	0 8	18 47	0 21	15 59	1 41	24 3	0 27	1 44	1 53	3 2	14 33	18 23	18 34	6 8			n.a.
M13	16 0	16 55	0s42	11 41	0 40	14 16	1 24	0s12	0 7	18 48	0 21	16 0	1 41	24 3	0 27	1 44	1 53	3 2	14 33	18 23	18 35	6 6			n.a.
T 14	15 42	13 59	1 47	11 0	0 33	13 50	1 24	0 29	0 6	18 49	0 21	16 1	1 41	24 3	0 27	1 45	1 54	3 2	14 33	18 23	18 36	6 4			n.a.
W15	15 24	10 31	2 46	10 18	0 26	13 23	1 24	0 46	0 6	18 50	0 20	16 1	1 41	24 3	0 27	1 45	1 54	3 3	14 34	18 23	18 36	6 2			n.a.
T 16	15 5	6 39	3 38	9 36	0 19	12 56	1 23	1 3	0 5	18 51	0 20	16 2	1 40	24 3	0 27	1 46	1 54	3 3	14 34	18 24	18 37	5 59			n.a.
F 17	14 47	2 33	4 20	8 54	0 12	12 29	1 22	1 20	0 4	18 52	0 20	16 3	1 40	24 3	0 27	1 46	1 54	3 3	14 34	18 24	18 38	5 57			n.a.
S 18	14 28	1n39	4 52	8 12	0 5	12 1	1 22	1 37	0 3	18 54	0 20	16 4	1 40	24 3	0 27	1 47	1 54	3 4	14 34	18 25	18 39	5 55			n.a.
S 19	14 9	5 49	5 10	7 31	0s 3	11 33	1 21	1 54	0 2	18 55	0 20	16 5	1 40	24 3	0 27	1 47	1 54	3 4	14 35	18 25	18 40	5 53			n.a.
M20	13 49	9 47	5 16	6 49	0 10	11 5	1 20	2 11	0 2	18 56	0 20	16 5	1 40	24 3	0 27	1 48	1 54	3 4	14 35	18 25	18 41	5 51			n.a.
T 21	13 29	13 26	5 7	6 7	0 18	10 37	1 19	2 29	0 1	18 58	0 19	16 6	1 39	24 3	0 27	1 48	1 54	3 5	14 35	18 26	18 41	5 49			n.a.
W22	13 10	16 34	4 44	5 25	0 25	10 8	1 18	2 46	0 0	18 59	0 19	16 7	1 39	24 3	0 27	1 49	1 54	3 5	14 35	18 25	18 42	5 47			n.a.
T 23	12 49	19 0	4 6	4 44	0 33	9 39	1 17	3 3	0s 1	19 0	0 19	16 8	1 39	24 3	0 27	1 49	1 54	3 6	14 36	18 25	18 43	5 45			n.a.
F 24	12 29	20 29	3 14	4 3	0 41	9 9	1 16	3 20	0 1	19 2	0 19	16 9	1 39	24 3	0 27	1 50	1 54	3 6	14 36	18 25	18 44	5 42			n.a.
S 25	12 9	20 48	2 9	3 22	0 48	8 40	1 15	3 37	0 2	19 3	0 19	16 10	1 38	24 3	0 27	1 51	1 54	3 6	14 36	18 25	18 45	5 40			n.a.
S 26	11 48	19 49	0 54	2 41	0 56	8 10	1 14	3 55	0 3	19 5	0 18	16 11	1 38	24 3	0 27	1 51	1 54	3 7	14 36	18 24	18 45	5 38			n.a.
M27	11 27	17 30	0n26	2 1	1 4	7 40	1 13	4 12	0 4	19 7	0 18	16 12	1 38	24 3	0 27	1 52	1 54	3 7	14 36	18 24	18 46	5 36			n.a.
T 28	11 6	13 58	1 47	1 21	1 12	7 9	1 12	4 29	0 4	19 8	0 18	16 13	1 38	24 3	0 27	1 52	1 54	3 8	14 37	18 24	18 47	5 34			n.a.
W29	10 45	9 28	3 0	0 42	1 19	6 39	1 10	4 46	0 5	19 10	0 18	16 14	1 38	24 3	0 27	1 53	1 54	3 8	14 37	18 25	18 48	5 32			n.a.
T 30	10 23	4 23	4 1	0 3	1 27	6 8	1 9	5 3	0 6	19 12	0 18	16 15	1 37	24 3	0 27	1 54	1 54	3 8	14 37	18 26	18 49	5 30			n.a.
F 31	10n 1	0s56	4n45	0s36	1s35	5n37	1n 8	5s20	0s 7	19s13	0n18	16s16	1n37	24s 3	0s27	1s54	1s54	3s 9	14s37	18n27	18n49	5s27			n.a.

Julian Day Number = 1683284.5, Delta T = 03h14m20s
Ecliptic obliquity = 23°42'22, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'25, Lahiri = - 5°23'25 Julian Calendar 1 Aug. 105 BCE == Greg. Calendar 29 July 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

SEPTEMBER 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 29 23	5♍19'57	28♎ 3	29♍10	19♍46	13♎50	26♏16	19♏39	4°R54	29°R34	26°R56	8°R 2	6♌34	25♓20	n.a.	S 1
S 2	22 33 19	6°19'05	12♏27	0♎25	21° 1	14°32	26°23	19°42	4♑53	29♓33	26♈55	7♌59	6°31	25°27	n.a.	S 2
M 3	22 37 16	7°18'15	26°25	1°39	22°16	15°14	26°30	19°46	4°52	29°31	26°55	7°57	6°28	25°34	n.a.	M 3
T 4	22 41 12	8°17'27	9♐58	2°51	23°30	15°56	26°37	19°49	4°52	29°30	26°54	7°D57	6°25	25°40	n.a.	T 4
W 5	22 45 9	9°16'41	23° 7	4° 2	24°45	16°39	26°44	19°53	4°51	29°28	26°53	7°58	6°22	25°47	n.a.	W 5
T 6	22 49 6	10°15'57	5♑55	5°11	26° 0	17°21	26°51	19°57	4°50	29°27	26°52	7°59	6°18	25°54	n.a.	T 6
F 7	22 53 2	11°15'14	18°26	6°17	27°14	18° 4	26°59	20° 0	4°50	29°25	26°52	8° 1	6°15	26° 0	n.a.	F 7
S 8	22 56 59	12°14'33	0♒43	7°22	28°29	18°46	27° 7	20° 4	4°49	29°24	26°51	8° 2	6°12	26° 7	n.a.	S 8
S 9	23 0 55	13°13'55	12°49	8°24	29°44	19°29	27°15	20° 8	4°49	29°22	26°50	8°R 2	6° 9	26°14	n.a.	S 9
M10	23 4 52	14°13'18	24°49	9°24	0♎58	20°11	27°22	20°12	4°49	29°20	26°49	8° 1	6° 6	26°21	n.a.	M10
T 11	23 8 48	15°12'43	6♓43	10°21	2°13	20°54	27°31	20°16	4°48	29°19	26°49	7°57	6° 3	26°27	n.a.	T 11
W12	23 12 45	16°12'11	18°35	11°15	3°28	21°37	27°39	20°21	4°48	29°17	26°48	7°52	5°59	26°34	n.a.	W12
T 13	23 16 41	17°11'40	0♈25	12° 6	4°42	22°20	27°47	20°25	4°48	29°16	26°47	7°46	5°56	26°41	n.a.	T 13
F 14	23 20 38	18°11'12	12°16	12°53	5°57	23° 2	27°56	20°29	4°48	29°14	26°46	7°38	5°53	26°47	n.a.	F 14
S 15	23 24 34	19°10'46	24°10	13°36	7°12	23°45	28° 4	20°34	4°47	29°12	26°45	7°30	5°50	26°54	n.a.	S 15
S 16	23 28 31	20°10'22	6♉ 9	14°15	8°26	24°29	28°13	20°38	4°47	29°11	26°44	7°23	5°47	27° 1	n.a.	S 16
M17	23 32 28	21°10'01	18°15	14°49	9°41	25°12	28°22	20°43	4°D47	29° 9	26°43	7°16	5°44	27° 7	n.a.	M17
T 18	23 36 24	22° 9'42	0♊31	15°18	10°55	25°55	28°31	20°47	4°47	29° 7	26°43	7°12	5°40	27°14	n.a.	T 18
W19	23 40 21	23° 9'25	13° 2	15°41	12°10	26°38	28°40	20°52	4°47	29° 6	26°42	7° 9	5°37	27°21	n.a.	W19
T 20	23 44 17	24° 9'11	25°51	15°58	13°25	27°21	28°49	20°57	4°48	29° 4	26°41	7°D 9	5°34	27°27	n.a.	T 20
F 21	23 48 14	25° 8'59	9♋ 1	16° 8	14°39	28° 5	28°59	21° 2	4°48	29° 2	26°40	7°10	5°31	27°34	n.a.	F 21
S 22	23 52 10	26° 8'50	22°37	16°R11	15°54	28°48	29° 8	21° 7	4°48	29° 1	26°39	7°11	5°28	27°41	n.a.	S 22
S 23	23 56 7	27° 8'43	6♌40	16° 6	17° 9	29°32	29°18	21°12	4°48	28°59	26°38	7°R11	5°24	27°48	n.a.	S 23
M24	0 0 3	28° 8'38	21°10	15°52	18°23	0♏15	29°28	21°17	4°49	28°57	26°37	7°11	5°21	27°54	n.a.	M24
T 25	0 4 0	29° 8'35	6♍ 4	15°30	19°38	0°59	29°37	21°22	4°49	28°55	26°36	7° 8	5°18	28° 1	n.a.	T 25
W26	0 7 57	0♎ 8'35	21°15	14°58	20°52	1°43	29°47	21°27	4°49	28°54	26°35	7° 2	5°15	28° 8	n.a.	W26
T 27	0 11 53	1° 8'36	6♎34	14°18	22° 7	2°27	29°57	21°32	4°50	28°52	26°34	6°55	5°12	28°14	n.a.	T 27
F 28	0 15 50	2° 8'39	21°49	13°28	23°22	3°11	0♐ 8	21°38	4°50	28°50	26°33	6°46	5° 9	28°21	n.a.	F 28
S 29	0 19 46	3° 8'45	6♏50	12°30	24°36	3°55	0°18	21°43	4°51	28°49	26°32	6°38	5° 5	28°28	n.a.	S 29
S 30	0 23 43	4♎ 8'52	21♏28	11♎25	25♎51	4♏39	0♐28	21♏48	4♑52	28♓47	26♈31	6♌30	5♌ 2	28♓34	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n40	6s 6	5n 9	1s13	1s42	5n 6	1n 6	5s38	0s 7	19s15	0n17	16s17	1n37	24s 3	0s27	1s55	1s54	3s 9	14s38	18n28	18n50	5s25		n.a.
S 2	9 18	10 47	5 13	1 51	1 50	4 35	1 4	5 55	0 8	19 17	0 17	16 18	1 37	24 3	0 27	1 55	1 54	3 10	14 38	18 28	18 51	5 23		n.a.
M 3	8 55	14 45	4 58	2 27	1 57	4 4	1 3	6 12	0 9	19 19	0 17	16 19	1 37	24 3	0 27	1 56	1 54	3 10	14 38	18 29	18 52	5 21		n.a.
T 4	8 33	17 48	4 26	3 3	2 4	3 32	1 1	6 29	0 9	19 20	0 17	16 21	1 36	24 3	0 27	1 57	1 54	3 11	14 38	18 29	18 53	5 19		n.a.
W 5	8 11	19 50	3 42	3 38	2 11	3 1	0 59	6 46	0 10	19 22	0 17	16 22	1 36	24 3	0 27	1 57	1 54	3 11	14 38	18 29	18 53	5 17		n.a.
T 6	7 48	20 48	2 47	4 11	2 18	2 29	0 58	7 3	0 11	19 24	0 17	16 23	1 36	24 3	0 27	1 58	1 54	3 11	14 39	18 28	18 54	5 14		n.a.
F 7	7 25	20 41	1 45	4 44	2 25	1 58	0 56	7 20	0 12	19 26	0 16	16 24	1 36	24 4	0 26	1 59	1 54	3 12	14 39	18 28	18 55	5 12		n.a.
S 8	7 3	19 34	0 40	5 16	2 32	1 26	0 54	7 37	0 12	19 28	0 16	16 25	1 35	24 4	0 26	1 59	1 54	3 12	14 39	18 28	18 56	5 10		n.a.
S 9	6 40	17 34	0s26	5 47	2 38	0 54	0 52	7 54	0 13	19 30	0 16	16 27	1 35	24 4	0 26	2 0	1 54	3 13	14 39	18 28	18 57	5 8		n.a.
M10	6 17	14 49	1 30	6 16	2 44	0 22	0 50	8 11	0 14	19 32	0 16	16 28	1 35	24 4	0 26	2 1	1 54	3 13	14 39	18 28	18 57	5 6		n.a.
T 11	5 53	11 27	2 30	6 44	2 49	0s 9	0 48	8 28	0 14	19 34	0 16	16 29	1 35	24 4	0 26	2 1	1 54	3 14	14 40	18 29	18 58	5 4		n.a.
W12	5 30	7 40	3 23	7 10	2 55	0 41	0 46	8 45	0 15	19 36	0 16	16 31	1 35	24 4	0 26	2 2	1 55	3 14	14 40	18 30	18 59	5 1		n.a.
T 13	5 7	3 35	4 6	7 35	2 59	1 13	0 44	9 2	0 16	19 38	0 15	16 32	1 35	24 3	0 26	2 3	1 55	3 14	14 40	18 32	19 0	4 59		n.a.
F 14	4 43	0n37	4 39	7 58	3 4	1 45	0 42	9 19	0 16	19 40	0 15	16 33	1 34	24 3	0 26	2 3	1 55	3 15	14 40	18 34	19 1	4 57		n.a.
S 15	4 20	4 49	5 1	8 18	3 8	2 17	0 40	9 35	0 17	19 42	0 15	16 35	1 34	24 3	0 26	2 4	1 55	3 15	14 40	18 36	19 1	4 55		n.a.
S 16	3 56	8 52	5 9	8 36	3 11	2 49	0 37	9 52	0 18	19 44	0 15	16 36	1 34	24 3	0 26	2 5	1 55	3 16	14 40	18 38	19 2	4 53		n.a.
M17	3 32	12 36	5 3	8 52	3 13	3 20	0 35	10 9	0 19	19 47	0 15	16 37	1 34	24 3	0 26	2 5	1 55	3 16	14 41	18 40	19 3	4 51		n.a.
T 18	3 9	15 52	4 44	9 5	3 15	3 52	0 33	10 25	0 19	19 49	0 15	16 39	1 34	24 3	0 26	2 6	1 55	3 17	14 41	18 41	19 4	4 48		n.a.
W19	2 45	18 28	4 11	9 15	3 16	4 24	0 30	10 42	0 20	19 51	0 15	16 40	1 33	24 3	0 26	2 7	1 55	3 17	14 41	18 41	19 5	4 46		n.a.
T 20	2 21	20 14	3 24	9 21	3 16	4 55	0 28	10 58	0 21	19 53	0 14	16 42	1 33	24 3	0 26	2 7	1 55	3 18	14 41	18 41	19 5	4 44		n.a.
F 21	1 57	20 58	2 26	9 24	3 15	5 27	0 26	11 14	0 21	19 55	0 14	16 43	1 33	24 3	0 26	2 8	1 55	3 18	14 41	18 41	19 6	4 42		n.a.
S 22	1 33	20 30	1 18	9 23	3 12	5 58	0 23	11 31	0 22	19 58	0 14	16 45	1 33	24 3	0 26	2 9	1 55	3 19	14 41	18 41	19 7	4 40		n.a.
S 23	1 9	18 46	0 3	9 18	3 9	6 29	0 21	11 47	0 23	20 0	0 14	16 46	1 33	24 3	0 26	2 10	1 55	3 19	14 41	18 41	19 8	4 37		n.a.
M24	0 45	15 47	1n15	9 8	3 3	7 0	0 18	12 3	0 23	20 2	0 14	16 48	1 33	24 3	0 26	2 10	1 55	3 19	14 42	18 41	19 9	4 35		n.a.
T 25	0 21	11 41	2 29	8 53	2 57	7 31	0 16	12 19	0 24	20 4	0 14	16 49	1 32	24 3	0 26	2 11	1 55	3 20	14 42	18 42	19 9	4 33		n.a.
W26	0s 3	6 47	3 34	8 32	2 48	8 2	0 13	12 35	0 25	20 7	0 13	16 51	1 32	24 3	0 26	2 12	1 55	3 20	14 42	18 43	19 10	4 31		n.a.
T 27	0 28	1 24	4 24	8 7	2 38	8 32	0 11	12 51	0 25	20 9	0 13	16 52	1 32	24 3	0 26	2 12	1 55	3 21	14 42	18 45	19 11	4 29		n.a.
F 28	0 52	4s 2	4 55	7 36	2 26	9 3	0 8	13 7	0 26	20 11	0 13	16 54	1 32	24 3	0 26	2 13	1 55	3 21	14 42	18 47	19 12	4 26		n.a.
S 29	1 16	9 8	5 5	7 0	2 12	9 33	0 6	13 23	0 26	20 14	0 13	16 55	1 32	24 3	0 26	2 14	1 55	3 22	14 42	18 49	19 12	4 24		n.a.
S 30	1s40	13s35	4n55	6s20	1s56	10s 3	0n 3	13s38	0s27	20s16	0n13	16s57	1n32	24s 3	0s26	2s14	1s55	3s22	14s42	18n51	19n13	4s22		n.a.

Julian Day Number = 1683315.5, Delta T = 03h14m19s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'21, Lahiri = - 5°23'21 Julian Calendar 1 Sept. 105 BCE == Greg. Calendar 29 Aug. 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

OCTOBER 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	0 27 39	5♎ 9'01	5♐38	10°R14	27♎ 5	5♏23	0♐39	21♏54	4♑52	28°R45	26°R30	6°R24	4♌59	28♓41	n.a.	M 1
T 2	0 31 36	6° 9'12	19°18	8♎58	28°20	6° 7	0°49	21°59	4°53	28♓44	26♈29	6♌20	4°56	28°48	n.a.	T 2
W 3	0 35 32	7° 9'24	2♑29	7°40	29°35	6°51	1° 0	22° 5	4°54	28°42	26°28	6°D19	4°53	28°54	n.a.	W 3
T 4	0 39 29	8° 9'38	15°16	6°22	0♏49	7°35	1°11	22°11	4°55	28°40	26°27	6°19	4°49	29° 1	n.a.	T 4
F 5	0 43 26	9° 9'53	27°41	5° 7	2° 4	8°20	1°22	22°16	4°56	28°39	26°26	6°20	4°46	29° 8	n.a.	F 5
S 6	0 47 22	10°10'11	9♒52	3°57	3°18	9° 4	1°33	22°22	4°57	28°37	26°25	6°R20	4°43	29°15	n.a.	S 6
S 7	0 51 19	11°10'29	21°51	2°55	4°33	9°48	1°44	22°28	4°58	28°35	26°23	6°19	4°40	29°21	n.a.	S 7
M 8	0 55 15	12°10'49	3♓44	2° 1	5°47	10°33	1°55	22°34	4°59	28°34	26°22	6°15	4°37	29°28	n.a.	M 8
T 9	0 59 12	13°11'11	15°34	1°18	7° 2	11°18	2° 6	22°40	5° 0	28°32	26°21	6° 9	4°34	29°35	n.a.	T 9
W10	1 3 8	14°11'35	27°24	0°45	8°16	12° 2	2°17	22°46	5° 1	28°31	26°20	5°59	4°30	29°41	n.a.	W10
T 11	1 7 5	15°12'00	9♈16	0°25	9°31	12°47	2°29	22°52	5° 2	28°29	26°19	5°48	4°27	29°48	n.a.	T 11
F 12	1 11 1	16°12'27	21°12	0°D16	10°45	13°32	2°40	22°58	5° 3	28°27	26°18	5°34	4°24	29°55	n.a.	F 12
S 13	1 14 58	17°12'56	3♉12	0°19	12° 0	14°16	2°52	23° 4	5° 5	28°26	26°17	5°21	4°21	0♈ 1	n.a.	S 13
S 14	1 18 54	18°13'26	15°19	0°32	13°14	15° 1	3° 4	23°10	5° 6	28°24	26°16	5° 8	4°18	0° 8	n.a.	S 14
M15	1 22 51	19°13'59	27°33	0°56	14°29	15°46	3°15	23°16	5° 7	28°23	26°15	4°56	4°15	0°15	n.a.	M15
T 16	1 26 48	20°14'33	9♊57	1°28	15°43	16°31	3°27	23°22	5° 9	28°21	26°13	4°47	4°11	0°22	n.a.	T 16
W17	1 30 44	21°15'09	22°31	2° 9	16°57	17°16	3°39	23°29	5°10	28°20	26°12	4°41	4° 8	0°28	n.a.	W17
T 18	1 34 41	22°15'47	5♋20	2°57	18°12	18° 1	3°51	23°35	5°12	28°18	26°11	4°38	4° 5	0°35	n.a.	T 18
F 19	1 38 37	23°16'27	18°26	3°52	19°26	18°46	4° 3	23°41	5°13	28°17	26°10	4°37	4° 2	0°42	n.a.	F 19
S 20	1 42 34	24°17'08	1♌53	4°52	20°41	19°32	4°15	23°48	5°15	28°15	26° 9	4°37	3°59	0°48	n.a.	S 20
S 21	1 46 30	25°17'52	15°42	5°58	21°55	20°17	4°28	23°54	5°17	28°14	26° 8	4°37	3°55	0°55	n.a.	S 21
M22	1 50 27	26°18'37	29°57	7° 7	23° 9	21° 2	4°40	24° 1	5°18	28°12	26° 7	4°35	3°52	1° 2	n.a.	M22
T 23	1 54 23	27°19'24	14♍34	8°21	24°24	21°47	4°52	24° 7	5°20	28°11	26° 6	4°31	3°49	1° 8	n.a.	T 23
W24	1 58 20	28°20'12	29°31	9°37	25°38	22°33	5° 5	24°14	5°22	28° 9	26° 4	4°23	3°46	1°15	n.a.	W24
T 25	2 2 17	29°21'02	14♎40	10°57	26°52	23°18	5°17	24°20	5°24	28° 8	26° 3	4°14	3°43	1°22	n.a.	T 25
F 26	2 6 13	0♏21'54	29°51	12°18	28° 7	24° 4	5°30	24°27	5°26	28° 7	26° 2	4° 2	3°40	1°29	n.a.	F 26
S 27	2 10 10	1°22'47	14♏53	13°42	29°21	24°50	5°42	24°33	5°28	28° 5	26° 1	3°50	3°36	1°35	n.a.	S 27
S 28	2 14 6	2°23'41	29°37	15° 7	0♐35	25°35	5°55	24°40	5°30	28° 4	26° 0	3°39	3°33	1°42	n.a.	S 28
M29	2 18 3	3°24'36	13♐54	16°33	1°50	26°21	6° 8	24°47	5°32	28° 3	25°59	3°30	3°30	1°49	n.a.	M29
T 30	2 21 59	4°25'33	27°42	18° 1	3° 4	27° 7	6°21	24°54	5°34	28° 1	25°58	3°24	3°27	1°55	n.a.	T 30
W31	2 25 56	5♏26'30	11♑ 1	19♎29	4♐18	27♏52	6♐34	25♏ 0	5♑36	28♓ 0	25♈57	3♌20	3♌24	2♈ 2	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	2s 4	17s 6	4n27	5s36	1s38	10s33	0n 0	13s54	0s28	20s18	0n13	16s58	1n31	24s 3	0s26	2s15	1s55	3s23	14s42	18n53	19n14	4s20			n.a.
T 2	2 28	19 33	3 44	4 48	1 19	11 2	0s 2	14 9	0 28	20 21	0 13	17 0	1 31	24 3	0 26	2 16	1 55	3 23	14 42	18 54	19 15	4 18			n.a.
W 3	2 52	20 50	2 51	3 59	1 0	11 31	0 5	14 24	0 29	20 23	0 12	17 2	1 31	24 3	0 26	2 16	1 55	3 23	14 42	18 54	19 16	4 15			n.a.
T 4	3 16	21 0	1 50	3 9	0 39	12 0	0 8	14 40	0 30	20 25	0 12	17 3	1 31	24 3	0 26	2 17	1 55	3 24	14 42	18 54	19 16	4 13			n.a.
F 5	3 40	20 6	0 46	2 20	0 18	12 29	0 10	14 55	0 30	20 28	0 12	17 5	1 31	24 3	0 26	2 18	1 55	3 24	14 43	18 54	19 17	4 11			n.a.
S 6	4 4	18 17	0s19	1 33	0n 2	12 57	0 13	15 10	0 31	20 30	0 12	17 6	1 31	24 3	0 26	2 18	1 55	3 25	14 43	18 54	19 18	4 9			n.a.
S 7	4 28	15 40	1 22	0 50	0 22	13 25	0 16	15 25	0 31	20 33	0 12	17 8	1 30	24 3	0 26	2 19	1 55	3 25	14 43	18 54	19 19	4 6			n.a.
M 8	4 52	12 26	2 20	0 11	0 41	13 53	0 18	15 39	0 32	20 35	0 12	17 10	1 30	24 3	0 26	2 20	1 55	3 26	14 43	18 55	19 19	4 4			n.a.
T 9	5 16	8 42	3 13	0n22	0 58	14 21	0 21	15 54	0 33	20 37	0 12	17 11	1 30	24 3	0 26	2 20	1 55	3 26	14 43	18 57	19 20	4 2			n.a.
W10	5 39	4 39	3 56	0 49	1 14	14 48	0 24	16 9	0 33	20 40	0 12	17 13	1 30	24 3	0 26	2 21	1 55	3 26	14 43	18 59	19 21	4 0			n.a.
T 11	6 3	0 25	4 30	1 10	1 28	15 14	0 26	16 23	0 34	20 42	0 11	17 15	1 30	24 3	0 26	2 21	1 55	3 27	14 43	19 2	19 22	3 57			n.a.
F 12	6 27	3n51	4 52	1 25	1 40	15 41	0 29	16 37	0 34	20 45	0 11	17 16	1 30	24 2	0 26	2 22	1 55	3 27	14 43	19 5	19 22	3 55			n.a.
S 13	6 50	8 1	5 1	1 33	1 50	16 6	0 32	16 51	0 35	20 47	0 11	17 18	1 30	24 2	0 26	2 23	1 55	3 28	14 43	19 9	19 23	3 53			n.a.
S 14	7 13	11 53	4 56	1 36	1 59	16 32	0 34	17 5	0 36	20 49	0 11	17 20	1 29	24 2	0 26	2 23	1 54	3 28	14 43	19 12	19 24	3 51			n.a.
M15	7 37	15 19	4 38	1 33	2 6	16 57	0 37	17 19	0 36	20 52	0 11	17 21	1 29	24 2	0 26	2 24	1 54	3 29	14 43	19 15	19 25	3 49			n.a.
T 16	8 0	18 7	4 7	1 25	2 11	17 22	0 40	17 33	0 37	20 54	0 11	17 23	1 29	24 2	0 26	2 25	1 54	3 29	14 43	19 17	19 25	3 46			n.a.
W17	8 23	20 7	3 23	1 12	2 15	17 46	0 42	17 46	0 37	20 57	0 11	17 25	1 29	24 2	0 26	2 25	1 54	3 29	14 43	19 18	19 26	3 44			n.a.
T 18	8 46	21 8	2 28	0 55	2 18	18 9	0 45	18 0	0 38	20 59	0 10	17 27	1 29	24 2	0 26	2 26	1 54	3 30	14 43	19 19	19 27	3 42			n.a.
F 19	9 8	21 2	1 25	0 34	2 19	18 33	0 47	18 13	0 38	21 1	0 10	17 28	1 29	24 2	0 26	2 26	1 54	3 30	14 43	19 19	19 28	3 40			n.a.
S 20	9 31	19 44	0 15	0 10	2 20	18 55	0 50	18 26	0 39	21 4	0 10	17 30	1 29	24 2	0 26	2 27	1 54	3 31	14 43	19 19	19 29	3 37			n.a.
S 21	9 54	17 14	0n58	0s16	2 19	19 18	0 53	18 39	0 40	21 6	0 10	17 32	1 29	24 2	0 26	2 27	1 54	3 31	14 43	19 19	19 29	3 35			n.a.
M22	10 16	13 38	2 10	0 46	2 17	19 39	0 55	18 52	0 40	21 9	0 10	17 33	1 28	24 2	0 26	2 28	1 54	3 31	14 43	19 20	19 30	3 33			n.a.
T 23	10 38	9 7	3 14	1 17	2 15	20 1	0 58	19 4	0 41	21 11	0 10	17 35	1 28	24 2	0 26	2 29	1 54	3 32	14 43	19 21	19 31	3 31			n.a.
W24	11 0	3 58	4 7	1 50	2 12	20 21	1 0	19 17	0 41	21 13	0 10	17 37	1 28	24 2	0 26	2 29	1 54	3 32	14 43	19 23	19 32	3 28			n.a.
T 25	11 22	1s30	4 43	2 25	2 9	20 41	1 3	19 29	0 42	21 16	0 10	17 39	1 28	24 1	0 26	2 30	1 54	3 32	14 43	19 25	19 32	3 26			n.a.
F 26	11 44	6 53	4 59	3 0	2 4	21 1	1 5	19 41	0 42	21 18	0 10	17 40	1 28	24 1	0 26	2 30	1 54	3 33	14 43	19 28	19 33	3 24			n.a.
S 27	12 5	11 47	4 55	3 37	2 0	21 20	1 7	19 53	0 43	21 21	0 9	17 42	1 28	24 1	0 26	2 31	1 54	3 33	14 43	19 31	19 34	3 22			n.a.
S 28	12 26	15 53	4 30	4 15	1 55	21 38	1 10	20 4	0 43	21 23	0 9	17 44	1 28	24 1	0 26	2 31	1 54	3 33	14 43	19 33	19 35	3 19			n.a.
M29	12 47	18 56	3 49	4 54	1 50	21 56	1 12	20 16	0 44	21 25	0 9	17 46	1 28	24 1	0 26	2 32	1 54	3 34	14 43	19 35	19 35	3 17			n.a.
T 30	13 8	20 45	2 56	5 32	1 44	22 13	1 14	20 27	0 44	21 28	0 9	17 47	1 28	24 1	0 26	2 32	1 54	3 34	14 42	19 37	19 36	3 15			n.a.
W31	13s29	21s20	1n55	6s12	1n38	22s30	1s16	20s38	0s45	21s30	0n 9	17s49	1n27	24s 1	0s26	2s33	1s54	3s34	14s42	19n38	19n37	3s12			n.a.

Julian Day Number = 1683345.5, Delta T = 03h14m18s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'17, Lahiri = - 5°23'17 Julian Calendar 1 Oct. 105 BCE == Greg. Calendar 28 Sept. 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

NOVEMBER 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 29 52	6♏27'28	23♑52	20♎59	5♐32	28♏38	6♐47	25♏ 7	5♑38	27°R59	25°R55	3°R19	3♌21	2♈ 9	n.a.	T 1
F 2	2 33 49	7°28'27	6♒20	22°29	6°46	29°24	7° 0	25°14	5°40	27♓57	25♈54	3♌19	3°17	2°15	n.a.	F 2
S 3	2 37 46	8°29'27	18°31	23°59	8° 1	0♐10	7°13	25°21	5°43	27°56	25°53	3°19	3°14	2°22	n.a.	S 3
S 4	2 41 42	9°30'28	0♓29	25°30	9°15	0°56	7°26	25°27	5°45	27°55	25°52	3°17	3°11	2°29	n.a.	S 4
M 5	2 45 39	10°31'29	12°21	27° 2	10°29	1°42	7°39	25°34	5°47	27°54	25°51	3°14	3° 8	2°36	n.a.	M 5
T 6	2 49 35	11°32'31	24°10	28°33	11°43	2°28	7°52	25°41	5°50	27°53	25°50	3° 7	3° 5	2°42	n.a.	T 6
W 7	2 53 32	12°33'34	6♈ 0	0♏ 5	12°57	3°14	8° 5	25°48	5°52	27°52	25°49	2°57	3° 1	2°49	n.a.	W 7
T 8	2 57 28	13°34'38	17°55	1°37	14°11	4° 0	8°18	25°55	5°54	27°51	25°48	2°45	2°58	2°56	n.a.	T 8
F 9	3 1 25	14°35'43	29°58	3°10	15°25	4°46	8°32	26° 2	5°57	27°50	25°47	2°32	2°55	3° 2	n.a.	F 9
S 10	3 5 21	15°36'48	12♉ 8	4°42	16°39	5°33	8°45	26° 9	5°59	27°49	25°46	2°17	2°52	3° 9	n.a.	S 10
S 11	3 9 18	16°37'54	24°28	6°15	17°53	6°19	8°59	26°16	6° 2	27°48	25°45	2° 3	2°49	3°16	n.a.	S 11
M12	3 13 15	17°39'01	6♊56	7°48	19° 7	7° 5	9°12	26°23	6° 5	27°47	25°44	1°51	2°46	3°23	n.a.	M12
T 13	3 17 11	18°40'09	19°35	9°21	20°21	7°52	9°26	26°30	6° 7	27°46	25°42	1°42	2°42	3°29	n.a.	T 13
W14	3 21 8	19°41'18	2♋24	10°54	21°35	8°38	9°39	26°37	6°10	27°45	25°41	1°36	2°39	3°36	n.a.	W14
T 15	3 25 4	20°42'28	15°24	12°27	22°49	9°24	9°53	26°44	6°13	27°44	25°40	1°32	2°36	3°43	n.a.	T 15
F 16	3 29 1	21°43'38	28°37	14° 0	24° 3	10°11	10° 6	26°51	6°15	27°43	25°39	1°D31	2°33	3°49	n.a.	F 16
S 17	3 32 57	22°44'49	12♌ 4	15°34	25°17	10°57	10°20	26°58	6°18	27°42	25°38	1°31	2°30	3°56	n.a.	S 17
S 18	3 36 54	23°46'02	25°48	17° 7	26°30	11°44	10°33	27° 5	6°21	27°41	25°37	1°R32	2°26	4° 3	n.a.	S 18
M19	3 40 50	24°47'15	9♍50	18°41	27°44	12°31	10°47	27°12	6°24	27°41	25°36	1°31	2°23	4° 9	n.a.	M19
T 20	3 44 47	25°48'28	24° 8	20°15	28°58	13°17	11° 1	27°19	6°27	27°40	25°35	1°28	2°20	4°16	n.a.	T 20
W21	3 48 44	26°49'43	8♎43	21°49	0♑12	14° 4	11°15	27°26	6°29	27°39	25°35	1°22	2°17	4°23	n.a.	W21
T 22	3 52 40	27°50'58	23°27	23°23	1°25	14°51	11°28	27°33	6°32	27°39	25°34	1°14	2°14	4°30	n.a.	T 22
F 23	3 56 37	28°52'14	8♏16	24°57	2°39	15°37	11°42	27°40	6°35	27°38	25°33	1° 4	2°11	4°36	n.a.	F 23
S 24	4 0 33	29°53'30	23° 0	26°32	3°53	16°24	11°56	27°47	6°38	27°37	25°32	0°54	2° 7	4°43	n.a.	S 24
S 25	4 4 30	0♐54'46	7♐32	28° 6	5° 6	17°11	12°10	27°54	6°41	27°37	25°31	0°44	2° 4	4°50	n.a.	S 25
M26	4 8 26	1°56'03	21°43	29°41	6°20	17°58	12°24	28° 1	6°44	27°36	25°30	0°36	2° 1	4°56	n.a.	M26
T 27	4 12 23	2°57'20	5♑30	1♐17	7°33	18°45	12°38	28° 8	6°47	27°36	25°29	0°31	1°58	5° 3	n.a.	T 27
W28	4 16 20	3°58'37	18°52	2°52	8°47	19°31	12°52	28°15	6°50	27°35	25°28	0°28	1°55	5°10	n.a.	W28
T 29	4 20 16	4°59'54	1♒47	4°28	10° 0	20°18	13° 5	28°22	6°53	27°35	25°27	0°D27	1°52	5°17	n.a.	T 29
F 30	4 24 13	6♐ 1'11	14♒20	6♐ 4	11♑13	21♐ 5	13♐19	28♏29	6♑57	27♓34	25♈27	0♌28	1♌48	5♈23	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13 s49	20 s45	0n50	6 s51	1n32	22 s45	1 s19	20 s49	0 s45	21 s32	0n 9	17 s51	1n27	24 s 1	0 s26	2 s33	1 s54	3 s35	14 s42	19n38	19n38	3 s10		n.a.
F 2	14 10	19 9	0 s16	7 31	1 26	23 1	1 21	21 0	0 46	21 35	0 9	17 52	1 27	24 1	0 26	2 34	1 54	3 35	14 42	19 38	19 38	3 8		n.a.
S 3	14 29	16 42	1 20	8 11	1 19	23 15	1 23	21 10	0 46	21 37	0 9	17 54	1 27	24 1	0 26	2 34	1 54	3 35	14 42	19 38	19 39	3 6		n.a.
S 4	14 49	13 35	2 18	8 50	1 13	23 29	1 25	21 20	0 47	21 39	0 8	17 56	1 27	24 0	0 26	2 34	1 54	3 36	14 42	19 38	19 40	3 3		n.a.
M 5	15 9	9 56	3 11	9 30	1 6	23 42	1 27	21 30	0 47	21 42	0 8	17 58	1 27	24 0	0 26	2 35	1 54	3 36	14 42	19 39	19 41	3 1		n.a.
T 6	15 28	5 55	3 54	10 10	0 59	23 55	1 29	21 40	0 48	21 44	0 8	17 59	1 27	24 0	0 26	2 35	1 54	3 36	14 42	19 41	19 41	2 59		n.a.
W 7	15 47	1 41	4 28	10 49	0 52	24 6	1 31	21 50	0 48	21 46	0 8	18 1	1 27	24 0	0 26	2 36	1 54	3 36	14 42	19 43	19 42	2 57		n.a.
T 8	16 5	2n38	4 50	11 28	0 46	24 17	1 33	21 59	0 49	21 48	0 8	18 3	1 27	24 0	0 26	2 36	1 54	3 37	14 42	19 46	19 43	2 54		n.a.
F 9	16 24	6 55	5 0	12 6	0 39	24 28	1 34	22 8	0 49	21 51	0 8	18 5	1 27	24 0	0 26	2 36	1 54	3 37	14 41	19 49	19 43	2 52		n.a.
S 10	16 42	10 57	4 56	12 44	0 32	24 37	1 36	22 17	0 50	21 53	0 8	18 6	1 27	24 0	0 26	2 37	1 54	3 37	14 41	19 52	19 44	2 50		n.a.
S 11	17 0	14 36	4 38	13 22	0 25	24 46	1 38	22 25	0 50	21 55	0 8	18 8	1 26	24 0	0 26	2 37	1 54	3 37	14 41	19 55	19 45	2 47		n.a.
M12	17 17	17 40	4 7	13 59	0 18	24 54	1 40	22 34	0 50	21 57	0 8	18 10	1 26	23 59	0 26	2 38	1 53	3 38	14 41	19 58	19 46	2 45		n.a.
T 13	17 34	19 55	3 23	14 36	0 11	25 2	1 41	22 42	0 51	21 59	0 7	18 11	1 26	23 59	0 26	2 38	1 53	3 38	14 41	20 0	19 46	2 43		n.a.
W14	17 51	21 13	2 28	15 12	0 4	25 8	1 43	22 50	0 51	22 2	0 7	18 13	1 26	23 59	0 26	2 38	1 53	3 38	14 41	20 2	19 47	2 41		n.a.
T 15	18 8	21 24	1 24	15 47	0 s 3	25 14	1 44	22 58	0 52	22 4	0 7	18 15	1 26	23 59	0 26	2 38	1 53	3 38	14 41	20 2	19 48	2 38		n.a.
F 16	18 24	20 25	0 15	16 22	0 9	25 19	1 45	23 5	0 52	22 6	0 7	18 16	1 26	23 59	0 26	2 39	1 53	3 39	14 40	20 3	19 49	2 36		n.a.
S 17	18 40	18 15	0n56	16 56	0 16	25 24	1 47	23 12	0 53	22 8	0 7	18 18	1 26	23 59	0 26	2 39	1 53	3 39	14 40	20 3	19 49	2 34		n.a.
S 18	18 55	15 1	2 5	17 30	0 22	25 27	1 48	23 19	0 53	22 10	0 7	18 20	1 26	23 59	0 26	2 39	1 53	3 39	14 40	20 3	19 50	2 31		n.a.
M19	19 11	10 53	3 9	18 2	0 29	25 30	1 49	23 26	0 53	22 12	0 7	18 22	1 26	23 59	0 26	2 40	1 53	3 39	14 40	20 3	19 51	2 29		n.a.
T 20	19 25	6 3	4 2	18 34	0 35	25 32	1 50	23 32	0 54	22 14	0 7	18 23	1 26	23 58	0 26	2 40	1 53	3 39	14 40	20 3	19 52	2 27		n.a.
W21	19 40	0 48	4 40	19 5	0 41	25 33	1 51	23 38	0 54	22 16	0 7	18 25	1 26	23 58	0 26	2 40	1 53	3 39	14 40	20 5	19 52	2 24		n.a.
T 22	19 54	4 s33	5 1	19 35	0 48	25 34	1 52	23 44	0 55	22 18	0 6	18 27	1 26	23 58	0 26	2 40	1 53	3 40	14 39	20 6	19 53	2 22		n.a.
F 23	20 8	9 40	5 1	20 5	0 53	25 34	1 53	23 50	0 55	22 20	0 6	18 28	1 26	23 58	0 26	2 40	1 53	3 40	14 39	20 9	19 54	2 20		n.a.
S 24	20 21	14 12	4 41	20 33	0 59	25 32	1 54	23 55	0 55	22 22	0 6	18 30	1 26	23 58	0 26	2 41	1 53	3 40	14 39	20 11	19 54	2 18		n.a.
S 25	20 34	17 48	4 4	21 1	1 5	25 31	1 54	24 0	0 56	22 24	0 6	18 31	1 26	23 58	0 26	2 41	1 53	3 40	14 39	20 13	19 55	2 15		n.a.
M26	20 47	20 15	3 12	21 27	1 10	25 28	1 55	24 5	0 56	22 26	0 6	18 33	1 25	23 57	0 25	2 41	1 53	3 40	14 39	20 15	19 56	2 13		n.a.
T 27	20 59	21 26	2 9	21 53	1 16	25 25	1 55	24 10	0 56	22 28	0 6	18 35	1 25	23 57	0 25	2 41	1 53	3 40	14 38	20 16	19 57	2 11		n.a.
W28	21 11	21 21	1 2	22 17	1 21	25 20	1 56	24 14	0 57	22 30	0 6	18 36	1 25	23 57	0 25	2 41	1 53	3 40	14 38	20 17	19 57	2 8		n.a.
T 29	21 22	20 6	0 s 7	22 40	1 26	25 15	1 56	24 18	0 57	22 32	0 6	18 38	1 25	23 57	0 25	2 41	1 53	3 40	14 38	20 17	19 58	2 6		n.a.
F 30	21 s33	17 s53	1 s14	23 s 2	1 s30	25 s10	1 s57	24 s21	0 s57	22 s34	0n 6	18 s40	1n25	23 s57	0 s25	2 s42	1 s53	3 s41	14 s38	20n17	19n59	2 s 4		n.a.

Julian Day Number = 1683376.5, Delta T = 03h14m17s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'13, Lahiri = - 5°23'12 Julian Calendar 1 Nov. 105 BCE == Greg. Calendar 29 Oct. 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 105 BCE
geocentric

DECEMBER 105 BCE (-104) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 28 9	7♐ 2'27	26♒35	7♐40	12♑27	21♐52	13♐33	28♏36	7♑ 0	27°R34	25°R26	0♌29	1♌45	5♈30	n.a.	S 1
S 2	4 32 6	8° 3'43	8♓36	9°17	13°40	22°39	13°47	28°43	7° 3	27♓34	25♈25	0°R30	1°42	5°37	n.a.	S 2
M 3	4 36 2	9° 4'58	20°29	10°54	14°53	23°26	14° 1	28°50	7° 6	27°33	25°24	0°29	1°39	5°43	n.a.	M 3
T 4	4 39 59	10° 6'14	2♈19	12°31	16° 6	24°13	14°15	28°57	7° 9	27°33	25°23	0°26	1°36	5°50	n.a.	T 4
W 5	4 43 55	11° 7'29	14°12	14° 9	17°20	25° 0	14°29	29° 4	7°13	27°33	25°23	0°21	1°32	5°57	n.a.	W 5
T 6	4 47 52	12° 8'43	26°10	15°47	18°33	25°48	14°43	29°11	7°16	27°33	25°22	0°14	1°29	6° 4	n.a.	T 6
F 7	4 51 49	13° 9'58	8♉17	17°25	19°46	26°35	14°57	29°18	7°19	27°33	25°21	0° 5	1°26	6°10	n.a.	F 7
S 8	4 55 45	14°11'11	20°37	19° 4	20°59	27°22	15°11	29°25	7°22	27°33	25°20	29♋56	1°23	6°17	n.a.	S 8
S 9	4 59 42	15°12'25	3♊ 9	20°43	22°11	28° 9	15°25	29°32	7°26	27°32	25°20	29°47	1°20	6°24	n.a.	S 9
M10	5 3 38	16°13'38	15°55	22°23	23°24	28°56	15°39	29°38	7°29	27°32	25°19	29°40	1°17	6°30	n.a.	M10
T 11	5 7 35	17°14'51	28°53	24° 2	24°37	29°43	15°53	29°45	7°32	27°D32	25°18	29°34	1°13	6°37	n.a.	T 11
W12	5 11 31	18°16'03	12♋ 4	25°43	25°50	0♑31	16° 7	29°52	7°36	27°32	25°18	29°30	1°10	6°44	n.a.	W12
T 13	5 15 28	19°17'15	25°27	27°23	27° 2	1°18	16°21	29°59	7°39	27°32	25°17	29°D29	1° 7	6°50	n.a.	T 13
F 14	5 19 24	20°18'27	9♌ 0	29° 3	28°15	2° 5	16°35	0♐ 6	7°43	27°32	25°17	29°29	1° 4	6°57	n.a.	F 14
S 15	5 23 21	21°19'39	22°43	0♑44	29°27	2°52	16°49	0°12	7°46	27°33	25°16	29°30	1° 1	7° 4	n.a.	S 15
S 16	5 27 18	22°20'50	6♍35	2°25	0♒40	3°40	17° 3	0°19	7°49	27°33	25°15	29°32	0°58	7°11	n.a.	S 16
M17	5 31 14	23°22'01	20°36	4° 6	1°52	4°27	17°17	0°26	7°53	27°33	25°15	29°R33	0°54	7°17	n.a.	M17
T 18	5 35 11	24°23'11	4♎46	5°47	3° 4	5°14	17°31	0°32	7°56	27°33	25°14	29°32	0°51	7°24	n.a.	T 18
W19	5 39 7	25°24'21	19° 1	7°27	4°17	6° 1	17°45	0°39	8° 0	27°33	25°14	29°30	0°48	7°31	n.a.	W19
T 20	5 43 4	26°25'31	3♏21	9° 8	5°29	6°49	17°59	0°46	8° 3	27°34	25°13	29°27	0°45	7°37	n.a.	T 20
F 21	5 47 0	27°26'40	17°40	10°47	6°41	7°36	18°13	0°52	8° 7	27°34	25°13	29°22	0°42	7°44	n.a.	F 21
S 22	5 50 57	28°27'49	1♐55	12°26	7°53	8°24	18°27	0°59	8°10	27°34	25°12	29°17	0°38	7°51	n.a.	S 22
S 23	5 54 53	29°28'57	16° 0	14° 5	9° 5	9°11	18°41	1° 5	8°14	27°35	25°12	29°12	0°35	7°58	n.a.	S 23
M24	5 58 50	0♑30'04	29°51	15°41	10°16	9°58	18°55	1°12	8°17	27°35	25°12	29° 9	0°32	8° 4	n.a.	M24
T 25	6 2 47	1°31'11	13♑23	17°17	11°28	10°46	19° 9	1°18	8°21	27°36	25°11	29° 6	0°29	8°11	n.a.	T 25
W26	6 6 43	2°32'16	26°36	18°50	12°40	11°33	19°23	1°24	8°24	27°36	25°11	29°D 5	0°26	8°18	n.a.	W26
T 27	6 10 40	3°33'21	9♒28	20°20	13°51	12°21	19°37	1°31	8°28	27°37	25°11	29° 6	0°23	8°24	n.a.	T 27
F 28	6 14 36	4°34'24	22° 2	21°48	15° 2	13° 8	19°50	1°37	8°31	27°37	25°10	29° 7	0°19	8°31	n.a.	F 28
S 29	6 18 33	5°35'25	4♓18	23°13	16°14	13°55	20° 4	1°43	8°35	27°38	25°10	29° 9	0°16	8°38	n.a.	S 29
S 30	6 22 29	6°36'26	16°22	24°33	17°25	14°43	20°18	1°50	8°38	27°39	25°10	29°10	0°13	8°45	n.a.	S 30
M31	6 26 26	7♑37'25	28♓18	25♑48	18♒36	15♑30	20♐32	1♐56	8♑42	27♓39	25♈ 9	29♋12	0♌10	8♈51	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s44	14s55	2s16	23s23	1s35	25s 3	1s57	24s25	0s58	22s35	0n 5	18s41	1n25	23s57	0s25	2s42	1s52	3s41	14s37	20n16	19n59	2s 1		n.a.
S 2	21 54	11 22	3 10	23 43	1 39	24 56	1 57	24 28	0 58	22 37	0 5	18 43	1 25	23 56	0 25	2 42	1 52	3 41	14 37	20 16	20 0	1 59		n.a.
M 3	22 4	7 25	3 56	24 2	1 43	24 48	1 57	24 31	0 58	22 39	0 5	18 44	1 25	23 56	0 25	2 42	1 52	3 41	14 37	20 16	20 1	1 57		n.a.
T 4	22 13	3 12	4 31	24 19	1 47	24 39	1 57	24 33	0 59	22 41	0 5	18 46	1 25	23 56	0 25	2 42	1 52	3 41	14 37	20 17	20 2	1 54		n.a.
W 5	22 22	1n 8	4 55	24 34	1 50	24 30	1 57	24 36	0 59	22 43	0 5	18 47	1 25	23 56	0 25	2 42	1 52	3 41	14 36	20 18	20 2	1 52		n.a.
T 6	22 30	5 27	5 6	24 49	1 53	24 20	1 57	24 38	0 59	22 44	0 5	18 49	1 25	23 56	0 25	2 42	1 52	3 41	14 36	20 20	20 3	1 50		n.a.
F 7	22 38	9 38	5 4	25 2	1 56	24 9	1 56	24 39	1 0	22 46	0 5	18 50	1 25	23 56	0 25	2 42	1 52	3 41	14 36	20 21	20 4	1 47		n.a.
S 8	22 45	13 29	4 48	25 13	1 58	23 57	1 56	24 41	1 0	22 48	0 5	18 52	1 25	23 55	0 25	2 42	1 52	3 41	14 36	20 23	20 4	1 45		n.a.
S 9	22 52	16 49	4 17	25 23	2 1	23 45	1 55	24 42	1 0	22 49	0 5	18 53	1 25	23 55	0 25	2 42	1 52	3 41	14 35	20 25	20 5	1 43		n.a.
M10	22 59	19 25	3 34	25 31	2 2	23 32	1 55	24 42	1 0	22 51	0 4	18 55	1 25	23 55	0 25	2 42	1 52	3 41	14 35	20 27	20 6	1 40		n.a.
T 11	23 5	21 4	2 38	25 38	2 4	23 18	1 54	24 43	1 1	22 53	0 4	18 56	1 25	23 55	0 25	2 42	1 52	3 41	14 35	20 28	20 7	1 38		n.a.
W12	23 11	21 36	1 33	25 43	2 5	23 4	1 53	24 43	1 1	22 54	0 4	18 58	1 25	23 55	0 25	2 42	1 52	3 41	14 35	20 29	20 7	1 36		n.a.
T 13	23 16	20 56	0 22	25 46	2 5	22 49	1 52	24 43	1 1	22 56	0 4	18 59	1 25	23 54	0 25	2 42	1 52	3 41	14 34	20 29	20 8	1 33		n.a.
F 14	23 21	19 2	0n52	25 47	2 5	22 34	1 51	24 43	1 1	22 57	0 4	19 1	1 25	23 54	0 25	2 42	1 52	3 41	14 34	20 29	20 9	1 31		n.a.
S 15	23 25	16 2	2 3	25 47	2 5	22 17	1 50	24 42	1 2	22 59	0 4	19 2	1 25	23 54	0 25	2 41	1 52	3 41	14 34	20 29	20 9	1 29		n.a.
S 16	23 29	12 6	3 8	25 45	2 4	22 0	1 49	24 41	1 2	23 0	0 4	19 4	1 25	23 54	0 25	2 41	1 52	3 41	14 33	20 29	20 10	1 26		n.a.
M17	23 32	7 28	4 3	25 41	2 2	21 43	1 48	24 40	1 2	23 2	0 4	19 5	1 25	23 54	0 25	2 41	1 52	3 40	14 33	20 28	20 11	1 24		n.a.
T 18	23 35	2 25	4 43	25 35	2 0	21 25	1 47	24 38	1 2	23 3	0 4	19 6	1 25	23 53	0 25	2 41	1 51	3 40	14 33	20 28	20 11	1 22		n.a.
W19	23 38	2s49	5 7	25 27	1 58	21 6	1 45	24 36	1 2	23 5	0 4	19 8	1 25	23 53	0 25	2 41	1 51	3 40	14 33	20 29	20 12	1 19		n.a.
T 20	23 39	7 54	5 11	25 17	1 54	20 47	1 44	24 34	1 3	23 6	0 3	19 9	1 25	23 53	0 25	2 41	1 51	3 40	14 32	20 30	20 13	1 17		n.a.
F 21	23 41	12 33	4 56	25 6	1 50	20 27	1 42	24 32	1 3	23 7	0 3	19 11	1 25	23 53	0 25	2 41	1 51	3 40	14 32	20 31	20 14	1 15		n.a.
S 22	23 42	16 29	4 23	24 52	1 45	20 7	1 40	24 29	1 3	23 9	0 3	19 12	1 25	23 52	0 25	2 40	1 51	3 40	14 32	20 32	20 14	1 12		n.a.
S 23	23 42	19 25	3 34	24 37	1 40	19 46	1 38	24 26	1 3	23 10	0 3	19 13	1 25	23 52	0 25	2 40	1 51	3 40	14 31	20 33	20 15	1 10		n.a.
M24	23 42	21 9	2 33	24 19	1 34	19 25	1 36	24 23	1 3	23 11	0 3	19 15	1 25	23 52	0 25	2 40	1 51	3 40	14 31	20 33	20 16	1 8		n.a.
T 25	23 42	21 37	1 25	24 1	1 27	19 3	1 34	24 19	1 4	23 13	0 3	19 16	1 25	23 52	0 25	2 40	1 51	3 40	14 31	20 34	20 16	1 5		n.a.
W26	23 41	20 51	0 14	23 40	1 19	18 40	1 32	24 15	1 4	23 14	0 3	19 17	1 25	23 52	0 25	2 39	1 51	3 39	14 31	20 34	20 17	1 3		n.a.
T 27	23 39	19 0	0s57	23 18	1 10	18 17	1 30	24 11	1 4	23 15	0 3	19 19	1 25	23 51	0 25	2 39	1 51	3 39	14 30	20 34	20 18	1 1		n.a.
F 28	23 38	16 15	2 3	22 55	1 0	17 54	1 28	24 7	1 4	23 16	0 3	19 20	1 25	23 51	0 25	2 39	1 51	3 39	14 30	20 34	20 18	0 58		n.a.
S 29	23 35	12 51	3 2	22 30	0 50	17 30	1 25	24 2	1 4	23 17	0 3	19 21	1 25	23 51	0 26	2 39	1 51	3 39	14 30	20 33	20 19	0 56		n.a.
S 30	23 32	8 59	3 52	22 5	0 38	17 6	1 23	23 57	1 4	23 18	0 2	19 22	1 25	23 51	0 26	2 38	1 51	3 39	14 29	20 33	20 20	0 53		n.a.
M31	23s29	4s49	4s31	21s39	0s26	16s41	1s20	23s52	1s 4	23s20	0n 2	19s23	1n25	23s51	0s26	2s38	1s51	3s38	14s29	20n33	20n20	0s51		n.a.

Julian Day Number = 1683406.5, Delta T = 03h14m16s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'09, Lahiri = - 5°23'08 Julian Calendar 1 Dec. 105 BCE == Greg. Calendar 28 Nov. 105 BCE

The year -104 astronomical counting style corresponds to year 105 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

JANUARY 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 30 23	8♑38'22	10♈10	26♑58	19♒47	16♑18	20♐45	2♐ 2	8♑45	27♓40	25°R 9	29°R12	0♌ 7	8♈58	n.a.	T 1
W 2	6 34 19	9°39'19	22° 3	28° 1	20°58	17° 5	20°59	2° 8	8°49	27°41	25♈ 9	29♋11	0° 4	9° 5	n.a.	W 2
T 3	6 38 16	10°40'13	4♉ 2	28°57	22° 9	17°52	21°13	2°14	8°52	27°41	25° 9	29°10	0° 0	9°11	n.a.	T 3
F 4	6 42 12	11°41'07	16°11	29°46	23°19	18°40	21°26	2°20	8°56	27°42	25° 9	29° 8	29♋57	9°18	n.a.	F 4
S 5	6 46 9	12°41'58	28°34	0♒25	24°30	19°27	21°40	2°26	8°59	27°43	25° 8	29° 5	29°54	9°25	n.a.	S 5
S 6	6 50 5	13°42'49	11♊14	0°55	25°40	20°15	21°53	2°32	9° 3	27°44	25° 8	29° 3	29°51	9°32	n.a.	S 6
M 7	6 54 2	14°43'38	24°12	1°15	26°50	21° 2	22° 7	2°38	9° 6	27°45	25° 8	29° 0	29°48	9°38	n.a.	M 7
T 8	6 57 58	15°44'25	7♋29	1°R25	28° 0	21°50	22°20	2°43	9°10	27°46	25° 8	28°59	29°44	9°45	n.a.	T 8
W 9	7 1 55	16°45'11	21° 3	1°24	29°10	22°37	22°34	2°49	9°13	27°47	25° 8	28°58	29°41	9°52	n.a.	W 9
T 10	7 5 52	17°45'56	4♌52	1°11	0♓20	23°24	22°47	2°55	9°17	27°48	25° 8	28°D58	29°38	9°58	n.a.	T 10
F 11	7 9 48	18°46'39	18°54	0°48	1°29	24°12	23° 1	3° 0	9°20	27°49	25°D 8	28°59	29°35	10° 5	n.a.	F 11
S 12	7 13 45	19°47'21	3♍ 4	0°15	2°39	24°59	23°14	3° 6	9°24	27°50	25° 8	28°59	29°32	10°12	n.a.	S 12
S 13	7 17 41	20°48'01	17°18	29♑32	3°48	25°46	23°27	3°11	9°27	27°51	25° 8	29° 0	29°29	10°19	n.a.	S 13
M14	7 21 38	21°48'40	1♎35	28°41	4°57	26°34	23°40	3°17	9°31	27°52	25° 8	29° 1	29°25	10°25	n.a.	M14
T 15	7 25 34	22°49'18	15°49	27°44	6° 6	27°21	23°54	3°22	9°34	27°53	25° 8	29° 1	29°22	10°32	n.a.	T 15
W16	7 29 31	23°49'54	29°59	26°40	7°15	28° 9	24° 7	3°28	9°38	27°54	25° 8	29°R 1	29°19	10°39	n.a.	W16
T 17	7 33 27	24°50'30	14♏ 4	25°34	8°24	28°56	24°20	3°33	9°41	27°56	25° 8	29° 1	29°16	10°46	n.a.	T 17
F 18	7 37 24	25°51'04	28° 0	24°25	9°32	29°43	24°33	3°38	9°44	27°57	25° 9	29° 1	29°13	10°52	n.a.	F 18
S 19	7 41 21	26°51'36	11♐47	23°17	10°40	0♒31	24°46	3°43	9°48	27°58	25° 9	29° 0	29°10	10°59	n.a.	S 19
S 20	7 45 17	27°52'07	25°22	22°11	11°49	1°18	24°59	3°48	9°51	27°59	25° 9	29° 0	29° 6	11° 6	n.a.	S 20
M21	7 49 14	28°52'37	8♑45	21° 7	12°57	2° 5	25°12	3°53	9°55	28° 1	25° 9	29°D 0	29° 3	11°12	n.a.	M21
T 22	7 53 10	29°53'05	21°54	20° 9	14° 4	2°52	25°24	3°58	9°58	28° 2	25° 9	29° 0	29° 0	11°19	n.a.	T 22
W23	7 57 7	0♒53'31	4♒49	19°16	15°12	3°40	25°37	4° 3	10° 1	28° 4	25°10	29°R 0	28°57	11°26	n.a.	W23
T 24	8 1 3	1°53'55	17°29	18°29	16°19	4°27	25°50	4° 8	10° 5	28° 5	25°10	29° 0	28°54	11°33	n.a.	T 24
F 25	8 5 0	2°54'18	29°55	17°49	17°26	5°14	26° 2	4°13	10° 8	28° 6	25°10	29° 0	28°50	11°39	n.a.	F 25
S 26	8 8 56	3°54'38	12♓ 9	17°17	18°33	6° 1	26°15	4°17	10°11	28° 8	25°10	28°59	28°47	11°46	n.a.	S 26
S 27	8 12 53	4°54'57	24°12	16°51	19°40	6°49	26°27	4°22	10°15	28° 9	25°11	28°58	28°44	11°53	n.a.	S 27
M28	8 16 50	5°55'13	6♈ 8	16°33	20°46	7°36	26°40	4°26	10°18	28°11	25°11	28°57	28°41	11°59	n.a.	M28
T 29	8 20 46	6°55'27	18° 0	16°22	21°52	8°23	26°52	4°31	10°21	28°12	25°11	28°57	28°38	12° 6	n.a.	T 29
W30	8 24 43	7°55'39	29°53	16°D18	22°58	9°10	27° 5	4°35	10°24	28°14	25°12	28°56	28°35	12°13	n.a.	W30
T 31	8 28 39	8♒55'49	11♉50	16♑21	24♓ 4	9♒57	27♐17	4♐39	10♑28	28♓16	25♈12	28°D56	28♋31	12♈20	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23 s25	0 s30	4 s58	21 s12	0 s12	16 s16	1 s18	23 s46	1 s 5	23 s21	0n 2	19 s25	1n25	23 s50	0 s26	2 s38	1 s51	3 s38	14 s29	20n33	20n21	0 s49			n.a.
W 2	23 21	3n51	5 13	20 45	0n 2	15 51	1 15	23 40	1 5	23 22	0 2	19 26	1 25	23 50	0 26	2 37	1 51	3 38	14 28	20 33	20 22	0 46			n.a.
T 3	23 16	8 5	5 14	20 19	0 17	15 25	1 12	23 34	1 5	23 23	0 2	19 27	1 25	23 50	0 26	2 37	1 50	3 38	14 28	20 33	20 23	0 44			n.a.
F 4	23 11	12 3	5 2	19 53	0 33	14 59	1 9	23 28	1 5	23 24	0 2	19 28	1 25	23 50	0 26	2 36	1 50	3 38	14 28	20 34	20 23	0 42			n.a.
S 5	23 6	15 36	4 35	19 29	0 50	14 32	1 6	23 21	1 5	23 25	0 2	19 29	1 25	23 49	0 26	2 36	1 50	3 37	14 27	20 34	20 24	0 39			n.a.
S 6	22 59	18 31	3 54	19 5	1 7	14 5	1 3	23 14	1 5	23 26	0 2	19 31	1 25	23 49	0 26	2 36	1 50	3 37	14 27	20 35	20 25	0 37			n.a.
M 7	22 53	20 34	3 1	18 44	1 24	13 38	1 0	23 7	1 5	23 27	0 2	19 32	1 25	23 49	0 26	2 35	1 50	3 37	14 27	20 35	20 25	0 35			n.a.
T 8	22 46	21 34	1 56	18 25	1 42	13 11	0 56	22 59	1 5	23 27	0 1	19 33	1 25	23 49	0 26	2 35	1 50	3 36	14 26	20 35	20 26	0 32			n.a.
W 9	22 39	21 19	0 44	18 8	1 59	12 43	0 53	22 51	1 5	23 28	0 1	19 34	1 25	23 48	0 26	2 34	1 50	3 36	14 26	20 36	20 27	0 30			n.a.
T 10	22 31	19 47	0n33	17 54	2 16	12 15	0 49	22 43	1 5	23 29	0 1	19 35	1 25	23 48	0 26	2 34	1 50	3 36	14 26	20 36	20 27	0 27			n.a.
F 11	22 22	17 2	1 48	17 43	2 33	11 47	0 46	22 35	1 5	23 30	0 1	19 36	1 25	23 48	0 26	2 33	1 50	3 36	14 25	20 36	20 28	0 25			n.a.
S 12	22 14	13 15	2 58	17 35	2 49	11 18	0 42	22 27	1 5	23 31	0 1	19 37	1 25	23 48	0 26	2 33	1 50	3 35	14 25	20 35	20 29	0 23			n.a.
S 13	22 5	8 42	3 57	17 30	3 3	10 49	0 38	22 18	1 5	23 32	0 1	19 38	1 25	23 47	0 26	2 33	1 50	3 35	14 25	20 35	20 29	0 20			n.a.
M14	21 55	3 40	4 42	17 28	3 16	10 20	0 35	22 9	1 5	23 32	0 1	19 39	1 25	23 47	0 26	2 32	1 50	3 35	14 24	20 35	20 30	0 18			n.a.
T 15	21 45	1 s33	5 9	17 28	3 27	9 51	0 31	21 59	1 5	23 33	0 1	19 40	1 25	23 47	0 26	2 32	1 50	3 34	14 24	20 35	20 31	0 16			n.a.
W16	21 35	6 39	5 17	17 32	3 36	9 21	0 27	21 50	1 5	23 34	0 1	19 41	1 25	23 47	0 26	2 31	1 50	3 34	14 24	20 35	20 31	0 13			n.a.
T 17	21 24	11 22	5 6	17 38	3 42	8 52	0 23	21 40	1 5	23 34	0 1	19 42	1 25	23 46	0 26	2 30	1 50	3 34	14 23	20 35	20 32	0 11			n.a.
F 18	21 13	15 26	4 38	17 45	3 47	8 22	0 18	21 30	1 5	23 35	0 0	19 43	1 26	23 46	0 26	2 30	1 50	3 33	14 23	20 35	20 33	0 8			n.a.
S 19	21 1	18 36	3 53	17 55	3 49	7 52	0 14	21 20	1 5	23 36	0 0	19 44	1 26	23 46	0 26	2 29	1 50	3 33	14 23	20 35	20 33	0 6			n.a.
S 20	20 49	20 42	2 56	18 6	3 48	7 22	0 10	21 9	1 5	23 36	0 0	19 45	1 26	23 46	0 26	2 29	1 50	3 33	14 22	20 35	20 34	0 4			n.a.
M21	20 37	21 35	1 50	18 18	3 46	6 51	0 6	20 59	1 5	23 37	0 0	19 46	1 26	23 46	0 26	2 28	1 50	3 32	14 22	20 35	20 35	0 1			n.a.
T 22	20 24	21 15	0 39	18 32	3 41	6 21	0 1	20 48	1 5	23 38	0 s 0	19 47	1 26	23 45	0 26	2 28	1 49	3 32	14 22	20 35	20 35	0n 1			n.a.
W23	20 11	19 48	0 s32	18 45	3 35	5 51	0n 3	20 37	1 5	23 38	0 0	19 47	1 26	23 45	0 26	2 27	1 49	3 31	14 21	20 35	20 36	0 4			n.a.
T 24	19 57	17 22	1 41	18 59	3 28	5 20	0 8	20 25	1 5	23 39	0 0	19 48	1 26	23 45	0 26	2 26	1 49	3 31	14 21	20 35	20 37	0 6			n.a.
F 25	19 44	14 10	2 43	19 14	3 19	4 49	0 13	20 14	1 5	23 39	0 0	19 49	1 26	23 45	0 26	2 26	1 49	3 31	14 21	20 35	20 37	0 8			n.a.
S 26	19 29	10 25	3 37	19 28	3 8	4 19	0 17	20 2	1 5	23 40	0 0	19 50	1 26	23 44	0 26	2 25	1 49	3 30	14 20	20 35	20 38	0 11			n.a.
S 27	19 15	6 18	4 20	19 42	2 57	3 48	0 22	19 50	1 5	23 40	0 1	19 51	1 26	23 44	0 26	2 24	1 49	3 30	14 20	20 36	20 39	0 13			n.a.
M28	19 0	2 0	4 52	19 56	2 46	3 17	0 27	19 37	1 5	23 41	0 1	19 51	1 26	23 44	0 26	2 24	1 49	3 29	14 20	20 36	20 39	0 16			n.a.
T 29	18 45	2n21	5 11	20 9	2 33	2 46	0 32	19 25	1 5	23 41	0 1	19 52	1 26	23 44	0 26	2 23	1 49	3 29	14 19	20 36	20 40	0 18			n.a.
W30	18 29	6 37	5 17	20 22	2 21	2 15	0 37	19 12	1 5	23 41	0 1	19 53	1 26	23 43	0 26	2 22	1 49	3 28	14 19	20 36	20 41	0 20			n.a.
T 31	18 s14	10n40	5 s 9	20 s34	2n 8	1 s44	0n42	18 s59	1 s 5	23 s42	0 s 1	19 s54	1n26	23 s43	0 s26	2 s22	1 s49	3 s28	14 s19	20n36	20n41	0n23			n.a.

Julian Day Number = 1683437.5, Delta T = 03h14m15s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'04, Lahiri = - 5°23'04 Julian Calendar 1 Jan. 104 BCE == Greg. Calendar 29 Dec. 105 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

FEBRUARY 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	8 32 36	9♒55'56	23♉58	16♑29	25♓ 9	10♒44	27♐29	4♐44	10♑31	28♓17	25♈13	28♋56	28♋28	12♈26	n.a.	F 1
S 2	8 36 32	10°56'02	6♊20	16°44	26°14	11°31	27°41	4°48	10°34	28°19	25°13	28°57	28°25	12°33	n.a.	S 2
S 3	8 40 29	11°56'05	19° 0	17° 4	27°19	12°18	27°53	4°52	10°37	28°21	25°14	28°58	28°22	12°40	n.a.	S 3
M 4	8 44 25	12°56'06	2♋ 2	17°30	28°24	13° 5	28° 5	4°56	10°40	28°22	25°14	29° 0	28°19	12°46	n.a.	M 4
T 5	8 48 22	13°56'05	15°27	18° 0	29°28	13°52	28°17	5° 0	10°43	28°24	25°15	29° 1	28°16	12°53	n.a.	T 5
W 6	8 52 19	14°56'02	29°16	18°35	0♈32	14°39	28°28	5° 4	10°46	28°26	25°15	29°R 1	28°12	13° 0	n.a.	W 6
T 7	8 56 15	15°55'56	13♌27	19°14	1°36	15°26	28°40	5° 7	10°49	28°27	25°16	29° 0	28° 9	13° 7	n.a.	T 7
F 8	9 0 12	16°55'49	27°55	19°57	2°39	16°13	28°52	5°11	10°52	28°29	25°16	28°59	28° 6	13°13	n.a.	F 8
S 9	9 4 8	17°55'39	12♍34	20°43	3°42	17° 0	29° 3	5°14	10°55	28°31	25°17	28°57	28° 3	13°20	n.a.	S 9
S 10	9 8 5	18°55'27	27°18	21°33	4°45	17°47	29°15	5°18	10°58	28°33	25°18	28°54	28° 0	13°27	n.a.	S 10
M11	9 12 1	19°55'14	11♎59	22°27	5°47	18°34	29°26	5°21	11° 1	28°35	25°18	28°52	27°56	13°33	n.a.	M11
T 12	9 15 58	20°54'59	26°32	23°23	6°49	19°21	29°37	5°25	11° 4	28°37	25°19	28°49	27°53	13°40	n.a.	T 12
W13	9 19 54	21°54'42	10♏51	24°22	7°51	20° 7	29°48	5°28	11° 7	28°38	25°20	28°48	27°50	13°47	n.a.	W13
T 14	9 23 51	22°54'23	24°54	25°24	8°52	20°54	29°59	5°31	11°10	28°40	25°20	28°D48	27°47	13°54	n.a.	T 14
F 15	9 27 47	23°54'02	8♐40	26°28	9°53	21°41	0♑10	5°34	11°13	28°42	25°21	28°48	27°44	14° 0	n.a.	F 15
S 16	9 31 44	24°53'40	22° 9	27°35	10°53	22°28	0°21	5°37	11°16	28°44	25°22	28°50	27°41	14° 7	n.a.	S 16
S 17	9 35 41	25°53'16	5♑23	28°44	11°53	23°14	0°32	5°40	11°18	28°46	25°22	28°51	27°37	14°14	n.a.	S 17
M18	9 39 37	26°52'50	18°21	29°55	12°52	24° 1	0°43	5°43	11°21	28°48	25°23	28°53	27°34	14°21	n.a.	M18
T 19	9 43 34	27°52'21	1♒ 7	1♒ 8	13°52	24°47	0°53	5°46	11°24	28°50	25°24	28°R53	27°31	14°27	n.a.	T 19
W20	9 47 30	28°51'51	13°41	2°23	14°50	25°34	1° 4	5°48	11°26	28°52	25°25	28°52	27°28	14°34	n.a.	W20
T 21	9 51 27	29°51'19	26° 5	3°39	15°48	26°20	1°14	5°51	11°29	28°54	25°26	28°49	27°25	14°41	n.a.	T 21
F 22	9 55 23	0♓50'45	8♓20	4°58	16°46	27° 7	1°25	5°53	11°32	28°56	25°26	28°45	27°21	14°47	n.a.	F 22
S 23	9 59 20	1°50'08	20°26	6°19	17°43	27°53	1°35	5°55	11°34	28°58	25°27	28°40	27°18	14°54	n.a.	S 23
S 24	10 3 16	2°49'29	2♈25	7°41	18°40	28°40	1°45	5°58	11°37	29° 0	25°28	28°33	27°15	15° 1	n.a.	S 24
M25	10 7 13	3°48'48	14°19	9° 4	19°36	29°26	1°55	6° 0	11°39	29° 2	25°29	28°27	27°12	15° 8	n.a.	M25
T 26	10 11 10	4°48'04	26°11	10°30	20°32	0♓13	2° 5	6° 2	11°42	29° 4	25°30	28°21	27° 9	15°14	n.a.	T 26
W27	10 15 6	5°47'18	8♉ 3	11°57	21°27	0°59	2°14	6° 4	11°44	29° 7	25°31	28°16	27° 6	15°21	n.a.	W27
T 28	10 19 3	6♓46'30	19♉59	13♒25	22♈21	1♓45	2♑24	6♐ 6	11♑46	29♓ 9	25♈32	28♋13	27♋ 2	15♈28	n.a.	T 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	17s57	14n20	4s47	20s46	1n55	1s14	0n47	18s46	1s 5	23s42	0s 1	19s54	1n26	23s43	0s26	2s21	1s49	3s28	14s19	20n36	20n42	0n25		n.a.
S 2	17 41	17 28	4 12	20 57	1 42	0 43	0 52	18 33	1 5	23 42	0 1	19 55	1 26	23 43	0 26	2 20	1 49	3 27	14 18	20 36	20 42	0 28		n.a.
S 3	17 24	19 52	3 24	21 7	1 30	0 12	0 58	18 20	1 5	23 43	0 1	19 56	1 26	23 42	0 26	2 20	1 49	3 27	14 18	20 36	20 43	0 30		n.a.
M 4	17 7	21 18	2 24	21 17	1 17	0n19	1 3	18 6	1 4	23 43	0 1	19 56	1 26	23 42	0 26	2 19	1 49	3 26	14 18	20 35	20 44	0 32		n.a.
T 5	16 50	21 34	1 14	21 25	1 5	0 50	1 8	17 52	1 4	23 43	0 2	19 57	1 27	23 42	0 26	2 18	1 49	3 26	14 17	20 35	20 44	0 35		n.a.
W 6	16 32	20 33	0n 1	21 32	0 52	1 20	1 13	17 38	1 4	23 44	0 2	19 58	1 27	23 42	0 26	2 18	1 49	3 25	14 17	20 35	20 45	0 37		n.a.
T 7	16 14	18 14	1 19	21 39	0 40	1 51	1 19	17 24	1 4	23 44	0 2	19 58	1 27	23 41	0 26	2 17	1 49	3 25	14 17	20 35	20 46	0 40		n.a.
F 8	15 56	14 43	2 33	21 44	0 29	2 21	1 24	17 10	1 4	23 44	0 2	19 59	1 27	23 41	0 26	2 16	1 49	3 24	14 16	20 35	20 46	0 42		n.a.
S 9	15 38	10 16	3 38	21 48	0 17	2 51	1 30	16 55	1 4	23 44	0 2	19 59	1 27	23 41	0 26	2 15	1 49	3 24	14 16	20 36	20 47	0 44		n.a.
S 10	15 19	5 11	4 28	21 51	0 6	3 22	1 35	16 41	1 4	23 44	0 2	20 0	1 27	23 41	0 26	2 15	1 49	3 23	14 16	20 36	20 48	0 47		n.a.
M11	15 0	0s11	5 1	21 53	0s 4	3 52	1 41	16 26	1 3	23 45	0 2	20 1	1 27	23 41	0 26	2 14	1 49	3 23	14 15	20 37	20 48	0 49		n.a.
T 12	14 41	5 28	5 14	21 54	0 15	4 22	1 46	16 11	1 3	23 45	0 2	20 1	1 27	23 40	0 26	2 13	1 49	3 22	14 15	20 37	20 49	0 52		n.a.
W13	14 22	10 22	5 8	21 53	0 25	4 51	1 52	15 56	1 3	23 45	0 3	20 2	1 27	23 40	0 26	2 12	1 49	3 22	14 15	20 38	20 50	0 54		n.a.
T 14	14 2	14 38	4 43	21 51	0 34	5 21	1 58	15 41	1 3	23 45	0 3	20 2	1 27	23 40	0 26	2 11	1 48	3 21	14 15	20 38	20 50	0 57		n.a.
F 15	13 42	18 1	4 2	21 48	0 43	5 50	2 3	15 25	1 3	23 45	0 3	20 3	1 27	23 40	0 26	2 11	1 48	3 21	14 14	20 38	20 51	0 59		n.a.
S 16	13 22	20 20	3 8	21 44	0 52	6 20	2 9	15 10	1 2	23 45	0 3	20 3	1 27	23 39	0 26	2 10	1 48	3 20	14 14	20 37	20 51	1 1		n.a.
S 17	13 2	21 30	2 5	21 38	1 1	6 49	2 15	14 54	1 2	23 45	0 3	20 3	1 27	23 39	0 26	2 9	1 48	3 20	14 14	20 37	20 52	1 4		n.a.
M18	12 41	21 29	0 57	21 31	1 9	7 17	2 20	14 38	1 2	23 45	0 3	20 4	1 27	23 39	0 26	2 8	1 48	3 19	14 13	20 37	20 53	1 6		n.a.
T 19	12 21	20 20	0s12	21 22	1 16	7 46	2 26	14 22	1 2	23 45	0 3	20 4	1 28	23 39	0 26	2 7	1 48	3 19	14 13	20 37	20 53	1 9		n.a.
W20	12 0	18 11	1 20	21 12	1 23	8 14	2 32	14 6	1 2	23 46	0 3	20 5	1 28	23 39	0 26	2 6	1 48	3 18	14 13	20 37	20 54	1 11		n.a.
T 21	11 39	15 12	2 23	21 1	1 30	8 42	2 38	13 50	1 1	23 46	0 4	20 5	1 28	23 38	0 26	2 6	1 48	3 18	14 13	20 37	20 55	1 13		n.a.
F 22	11 18	11 36	3 19	20 48	1 36	9 10	2 43	13 34	1 1	23 46	0 4	20 5	1 28	23 38	0 26	2 5	1 48	3 17	14 12	20 38	20 55	1 16		n.a.
S 23	10 56	7 34	4 5	20 33	1 42	9 38	2 49	13 17	1 1	23 46	0 4	20 6	1 28	23 38	0 26	2 4	1 48	3 16	14 12	20 39	20 56	1 18		n.a.
S 24	10 35	3 17	4 39	20 17	1 48	10 5	2 55	13 1	1 1	23 46	0 4	20 6	1 28	23 38	0 26	2 3	1 48	3 16	14 12	20 41	20 57	1 21		n.a.
M25	10 13	1n 5	5 1	20 0	1 53	10 32	3 1	12 44	1 0	23 46	0 4	20 6	1 28	23 38	0 26	2 2	1 48	3 15	14 12	20 42	20 57	1 23		n.a.
T 26	9 51	5 24	5 10	19 41	1 57	10 59	3 6	12 27	1 0	23 46	0 4	20 7	1 28	23 37	0 26	2 1	1 48	3 15	14 11	20 43	20 58	1 26		n.a.
W27	9 29	9 31	5 6	19 21	2 2	11 25	3 12	12 11	1 0	23 46	0 4	20 7	1 28	23 37	0 26	2 1	1 48	3 14	14 11	20 44	20 58	1 28		n.a.
T 28	9s 7	13n18	4s49	18s59	2s 5	11n51	3n18	11s54	1s 0	23s45	0s 4	20s 7	1n28	23s37	0s26	2s 0	1s48	3s14	14s11	20n45	20n59	1n30		n.a.

Julian Day Number = 1683468.5, Delta T = 03h14m14s
Ecliptic obliquity = 23°42'23, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°30'00, Lahiri = - 5°23'00 Julian Calendar 1 Feb. 104 BCE == Greg. Calendar 29 Jan. 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

MARCH 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	10 22 59	7♓45'40	2♊ 4	14♒55	23♈15	2♓31	2♑33	6♐ 7	11♑49	29♓11	25♈33	28°R11	26♋59	15♈34	n.a.	F 1
S 2	10 26 56	8°44'47	14°22	16°27	24° 8	3°17	2°43	6° 9	11°51	29°13	25°34	28°D11	26°56	15°41	n.a.	S 2
S 3	10 30 52	9°43'51	26°58	17°59	25° 1	4° 4	2°52	6°11	11°53	29°15	25°35	28♋12	26°53	15°48	n.a.	S 3
M 4	10 34 49	10°42'54	9♋56	19°34	25°52	4°50	3° 1	6°12	11°56	29°17	25°36	28°14	26°50	15°55	n.a.	M 4
T 5	10 38 45	11°41'54	23°20	21°10	26°43	5°36	3°10	6°14	11°58	29°19	25°37	28°R15	26°47	16° 1	n.a.	T 5
W 6	10 42 42	12°40'51	7♌11	22°47	27°34	6°22	3°19	6°15	12° 0	29°22	25°38	28°15	26°43	16° 8	n.a.	W 6
T 7	10 46 39	13°39'46	21°30	24°26	28°23	7° 8	3°28	6°16	12° 2	29°24	25°39	28°13	26°40	16°15	n.a.	T 7
F 8	10 50 35	14°38'39	6♍13	26° 6	29°12	7°54	3°37	6°17	12° 4	29°26	25°40	28° 8	26°37	16°21	n.a.	F 8
S 9	10 54 32	15°37'30	21°13	27°48	29°59	8°39	3°45	6°18	12° 6	29°28	25°41	28° 2	26°34	16°28	n.a.	S 9
S 10	10 58 28	16°36'18	6♎21	29°31	0♉47	9°25	3°53	6°19	12° 8	29°30	25°42	27°55	26°31	16°35	n.a.	S 10
M11	11 2 25	17°35'05	21°27	1♓16	1°33	10°11	4° 2	6°20	12°10	29°33	25°43	27°48	26°27	16°42	n.a.	M11
T 12	11 6 21	18°33'49	6♏22	3° 2	2°18	10°57	4°10	6°21	12°12	29°35	25°44	27°41	26°24	16°48	n.a.	T 12
W13	11 10 18	19°32'32	20°58	4°50	3° 2	11°43	4°18	6°21	12°14	29°37	25°45	27°36	26°21	16°55	n.a.	W13
T 14	11 14 14	20°31'13	5♐11	6°40	3°45	12°28	4°26	6°22	12°16	29°39	25°46	27°33	26°18	17° 2	n.a.	T 14
F 15	11 18 11	21°29'53	18°59	8°30	4°28	13°14	4°33	6°22	12°17	29°42	25°48	27°D32	26°15	17° 9	n.a.	F 15
S 16	11 22 7	22°28'31	2♑23	10°23	5° 9	13°59	4°41	6°22	12°19	29°44	25°49	27°32	26°12	17°15	n.a.	S 16
S 17	11 26 4	23°27'06	15°26	12°17	5°49	14°45	4°48	6°23	12°21	29°46	25°50	27°33	26° 8	17°22	n.a.	S 17
M18	11 30 1	24°25'41	28°11	14°12	6°28	15°30	4°56	6°23	12°22	29°48	25°51	27°R33	26° 5	17°29	n.a.	M18
T 19	11 33 57	25°24'13	10♒41	16° 9	7° 5	16°16	5° 3	6°R23	12°24	29°51	25°52	27°32	26° 2	17°35	n.a.	T 19
W20	11 37 54	26°22'43	22°59	18° 8	7°42	17° 1	5°10	6°23	12°25	29°53	25°53	27°29	25°59	17°42	n.a.	W20
T 21	11 41 50	27°21'12	5♓ 9	20° 8	8°17	17°47	5°17	6°23	12°27	29°55	25°55	27°24	25°56	17°49	n.a.	T 21
F 22	11 45 47	28°19'39	17°12	22° 9	8°51	18°32	5°23	6°22	12°28	29°57	25°56	27°15	25°53	17°56	n.a.	F 22
S 23	11 49 43	29°18'03	29°10	24°12	9°23	19°17	5°30	6°22	12°30	29°59	25°57	27° 5	25°49	18° 2	n.a.	S 23
S 24	11 53 40	0♈16'26	11♈ 5	26°16	9°54	20° 2	5°36	6°22	12°31	0♈ 2	25°58	26°53	25°46	18° 9	n.a.	S 24
M25	11 57 36	1°14'47	22°57	28°21	10°24	20°47	5°43	6°21	12°32	0° 4	26° 0	26°41	25°43	18°16	n.a.	M25
T 26	12 1 33	2°13'06	4♉49	0♈27	10°51	21°33	5°49	6°20	12°34	0° 6	26° 1	26°29	25°40	18°22	n.a.	T 26
W27	12 5 29	3°11'23	16°42	2°34	11°18	22°18	5°55	6°20	12°35	0° 9	26° 2	26°19	25°37	18°29	n.a.	W27
T 28	12 9 26	4° 9'38	28°39	4°42	11°42	23° 3	6° 0	6°19	12°36	0°11	26° 3	26°11	25°33	18°36	n.a.	T 28
F 29	12 13 23	5° 7'50	10♊44	6°51	12° 5	23°48	6° 6	6°18	12°37	0°13	26° 5	26° 6	25°30	18°43	n.a.	F 29
S 30	12 17 19	6° 6'01	23° 0	9° 0	12°26	24°33	6°11	6°17	12°38	0°15	26° 6	26° 4	25°27	18°49	n.a.	S 30
S 31	12 21 16	7♈ 4'10	5♋32	11♈ 9	12♉46	25♓17	6♑17	6♐16	12♑39	0♈18	26♈ 7	26°D 3	25♋24	18♈56	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	8s45	16n35	4s18	18s35	2s 8	12n16	3n23	11s37	0s59	23s45	0s 5	20s 7	1n28	23s37	0s26	1s59	1s48	3s13	14s11	20n45	21n 0	1n33		n.a.
S 2	8 23	19 13	3 35	18 10	2 11	12 42	3 29	11 20	0 59	23 45	0 5	20 7	1 28	23 37	0 27	1 58	1 48	3 12	14 10	20 45	21 0	1 35		n.a.
S 3	8 0	20 59	2 41	17 44	2 14	13 7	3 35	11 2	0 59	23 45	0 5	20 8	1 28	23 37	0 27	1 57	1 48	3 12	14 10	20 45	21 1	1 38		n.a.
M 4	7 38	21 42	1 38	17 15	2 15	13 31	3 40	10 45	0 58	23 45	0 5	20 8	1 29	23 36	0 27	1 56	1 48	3 11	14 10	20 45	21 2	1 40		n.a.
T 5	7 15	21 14	0 27	16 46	2 17	13 55	3 46	10 28	0 58	23 45	0 5	20 8	1 29	23 36	0 27	1 55	1 48	3 11	14 10	20 45	21 2	1 43		n.a.
W 6	6 52	19 27	0n48	16 14	2 18	14 19	3 51	10 10	0 58	23 45	0 5	20 8	1 29	23 36	0 27	1 54	1 48	3 10	14 9	20 45	21 3	1 45		n.a.
T 7	6 30	16 25	2 2	15 42	2 18	14 42	3 57	9 53	0 57	23 45	0 5	20 8	1 29	23 36	0 27	1 53	1 48	3 10	14 9	20 45	21 3	1 48		n.a.
F 8	6 7	12 16	3 10	15 7	2 18	15 5	4 2	9 35	0 57	23 45	0 5	20 8	1 29	23 36	0 27	1 53	1 48	3 9	14 9	20 46	21 4	1 50		n.a.
S 9	5 44	7 17	4 6	14 31	2 18	15 27	4 8	9 17	0 57	23 45	0 6	20 9	1 29	23 36	0 27	1 52	1 48	3 8	14 9	20 47	21 5	1 52		n.a.
S 10	5 21	1 49	4 46	13 54	2 17	15 49	4 13	9 0	0 56	23 45	0 6	20 9	1 29	23 35	0 27	1 51	1 48	3 8	14 8	20 49	21 5	1 55		n.a.
M11	4 58	3s45	5 5	13 15	2 15	16 10	4 18	8 42	0 56	23 45	0 6	20 9	1 29	23 35	0 27	1 50	1 48	3 7	14 8	20 50	21 6	1 57		n.a.
T 12	4 34	9 1	5 3	12 34	2 13	16 31	4 24	8 24	0 56	23 44	0 6	20 9	1 29	23 35	0 27	1 49	1 48	3 7	14 8	20 51	21 6	2 0		n.a.
W13	4 11	13 40	4 42	11 52	2 10	16 52	4 29	8 6	0 55	23 44	0 6	20 9	1 29	23 35	0 27	1 48	1 48	3 6	14 8	20 52	21 7	2 2		n.a.
T 14	3 48	17 25	4 4	11 8	2 7	17 11	4 34	7 48	0 55	23 44	0 6	20 9	1 29	23 35	0 27	1 47	1 48	3 6	14 8	20 53	21 8	2 5		n.a.
F 15	3 24	20 3	3 12	10 23	2 4	17 31	4 39	7 30	0 55	23 44	0 6	20 9	1 29	23 35	0 27	1 46	1 48	3 5	14 7	20 53	21 8	2 7		n.a.
S 16	3 1	21 30	2 11	9 36	1 59	17 49	4 43	7 12	0 54	23 44	0 7	20 9	1 30	23 35	0 27	1 45	1 48	3 4	14 7	20 53	21 9	2 9		n.a.
S 17	2 38	21 44	1 5	8 47	1 55	18 7	4 48	6 54	0 54	23 44	0 7	20 9	1 30	23 34	0 27	1 44	1 48	3 4	14 7	20 53	21 9	2 12		n.a.
M18	2 14	20 49	0s 3	7 58	1 49	18 25	4 53	6 36	0 54	23 44	0 7	20 9	1 30	23 34	0 27	1 44	1 48	3 3	14 7	20 53	21 10	2 14		n.a.
T 19	1 51	18 52	1 10	7 7	1 44	18 42	4 57	6 18	0 53	23 44	0 7	20 9	1 30	23 34	0 27	1 43	1 48	3 3	14 7	20 53	21 11	2 17		n.a.
W20	1 27	16 4	2 12	6 14	1 37	18 58	5 2	5 59	0 53	23 43	0 7	20 8	1 30	23 34	0 27	1 42	1 48	3 2	14 7	20 54	21 11	2 19		n.a.
T 21	1 4	12 37	3 7	5 20	1 30	19 14	5 6	5 41	0 52	23 43	0 7	20 8	1 30	23 34	0 27	1 41	1 48	3 1	14 6	20 55	21 12	2 22		n.a.
F 22	0 40	8 40	3 53	4 25	1 23	19 29	5 10	5 23	0 52	23 43	0 7	20 8	1 30	23 34	0 27	1 40	1 48	3 1	14 6	20 56	21 12	2 24		n.a.
S 23	0 17	4 25	4 28	3 29	1 15	19 44	5 14	5 5	0 52	23 43	0 8	20 8	1 30	23 34	0 27	1 39	1 48	3 0	14 6	20 59	21 13	2 27		n.a.
S 24	0n 7	0 2	4 51	2 31	1 7	19 57	5 18	4 46	0 51	23 43	0 8	20 8	1 30	23 34	0 27	1 38	1 48	3 0	14 6	21 1	21 14	2 29		n.a.
M25	0 30	4n21	5 2	1 33	0 58	20 10	5 21	4 28	0 51	23 43	0 8	20 8	1 30	23 34	0 27	1 37	1 48	2 59	14 6	21 3	21 14	2 32		n.a.
T 26	0 53	8 34	4 59	0 34	0 49	20 22	5 24	4 10	0 50	23 43	0 8	20 8	1 30	23 33	0 27	1 36	1 48	2 59	14 6	21 5	21 15	2 34		n.a.
W27	1 17	12 29	4 44	0n26	0 39	20 34	5 28	3 51	0 50	23 43	0 8	20 7	1 30	23 33	0 27	1 35	1 48	2 58	14 5	21 7	21 15	2 36		n.a.
T 28	1 40	15 55	4 16	1 26	0 30	20 44	5 31	3 33	0 50	23 42	0 8	20 7	1 30	23 33	0 27	1 34	1 48	2 57	14 5	21 9	21 16	2 39		n.a.
F 29	2 4	18 44	3 36	2 27	0 19	20 54	5 33	3 14	0 49	23 42	0 8	20 7	1 30	23 33	0 27	1 34	1 48	2 57	14 5	21 10	21 17	2 41		n.a.
S 30	2 27	20 45	2 46	3 28	0 9	21 3	5 36	2 56	0 49	23 42	0 9	20 7	1 31	23 33	0 27	1 33	1 48	2 56	14 5	21 10	21 17	2 44		n.a.
S 31	2n50	21n49	1s47	4n29	0n 2	21n11	5n38	2s38	0s48	23s42	0s 9	20s 6	1n31	23s33	0s27	1s32	1s48	2s56	14s 5	21n11	21n18	2n46		n.a.

Julian Day Number = 1683496.5, Delta T = 03h14m14s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'56, Lahiri = - 5°22'56 Julian Calendar 1 March 104 BCE == Greg. Calendar 26 Feb. 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

APRIL 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	12 25 12	8♈ 2'16	18♋24	13♈17	13♉ 3	26♓ 2	6♑22	6°R14	12♑40	0♈20	26♈ 8	26♋ 3	25♋21	19♈ 3	n.a.	M 1
T 2	12 29 9	9° 0'21	1♌42	15°26	13°18	26°47	6°27	6♐13	12°41	0°22	26°10	26°R 3	25°18	19°10	n.a.	T 2
W 3	12 33 5	9°58'23	15°27	17°33	13°31	27°32	6°31	6°12	12°42	0°24	26°11	26° 2	25°14	19°16	n.a.	W 3
T 4	12 37 2	10°56'23	29°42	19°40	13°43	28°16	6°36	6°10	12°43	0°27	26°12	25°58	25°11	19°23	n.a.	T 4
F 5	12 40 58	11°54'22	14♍24	21°45	13°52	29° 1	6°40	6° 9	12°44	0°29	26°14	25°52	25° 8	19°30	n.a.	F 5
S 6	12 44 55	12°52'18	29°29	23°48	13°58	29°45	6°45	6° 7	12°44	0°31	26°15	25°44	25° 5	19°36	n.a.	S 6
S 7	12 48 52	13°50'13	14♎46	25°50	14° 3	0♈30	6°49	6° 5	12°45	0°33	26°16	25°34	25° 2	19°43	n.a.	S 7
M 8	12 52 48	14°48'06	0♏ 6	27°49	14°R 5	1°14	6°53	6° 3	12°46	0°35	26°18	25°23	24°58	19°50	n.a.	M 8
T 9	12 56 45	15°45'57	15°17	29°46	14° 5	1°59	6°56	6° 1	12°46	0°38	26°19	25°13	24°55	19°57	n.a.	T 9
W10	13 0 41	16°43'47	0♐ 8	1♉40	14° 2	2°43	7° 0	5°59	12°47	0°40	26°20	25° 5	24°52	20° 3	n.a.	W10
T 11	13 4 38	17°41'36	14°34	3°32	13°57	3°27	7° 3	5°57	12°47	0°42	26°22	25° 0	24°49	20°10	n.a.	T 11
F 12	13 8 34	18°39'24	28°31	5°20	13°50	4°11	7° 7	5°55	12°48	0°44	26°23	24°57	24°46	20°17	n.a.	F 12
S 13	13 12 31	19°37'10	11♑59	7° 6	13°40	4°56	7°10	5°53	12°48	0°46	26°24	24°56	24°43	20°24	n.a.	S 13
S 14	13 16 27	20°34'55	25° 2	8°48	13°28	5°40	7°13	5°50	12°48	0°49	26°26	24°56	24°39	20°30	n.a.	S 14
M15	13 20 24	21°32'39	7♒43	10°27	13°13	6°24	7°15	5°48	12°49	0°51	26°27	24°55	24°36	20°37	n.a.	M15
T 16	13 24 21	22°30'21	20° 7	12° 3	12°56	7° 8	7°18	5°45	12°49	0°53	26°28	24°54	24°33	20°44	n.a.	T 16
W17	13 28 17	23°28'03	2♓17	13°35	12°37	7°52	7°20	5°43	12°49	0°55	26°30	24°50	24°30	20°50	n.a.	W17
T 18	13 32 14	24°25'43	14°19	15° 4	12°15	8°36	7°22	5°40	12°49	0°57	26°31	24°43	24°27	20°57	n.a.	T 18
F 19	13 36 10	25°23'22	26°15	16°29	11°51	9°19	7°24	5°37	12°49	0°59	26°33	24°33	24°24	21° 4	n.a.	F 19
S 20	13 40 7	26°20'59	8♈ 8	17°51	11°25	10° 3	7°26	5°35	12°R49	1° 1	26°34	24°21	24°20	21°11	n.a.	S 20
S 21	13 44 3	27°18'35	19°59	19° 9	10°57	10°47	7°27	5°32	12°49	1° 3	26°35	24° 8	24°17	21°17	n.a.	S 21
M22	13 48 0	28°16'11	1♉52	20°23	10°28	11°31	7°29	5°29	12°49	1° 5	26°37	23°54	24°14	21°24	n.a.	M22
T 23	13 51 56	29°13'44	13°46	21°33	9°56	12°14	7°30	5°26	12°49	1° 7	26°38	23°40	24°11	21°31	n.a.	T 23
W24	13 55 53	0♉11'17	25°43	22°40	9°23	12°58	7°31	5°23	12°49	1°10	26°39	23°28	24° 8	21°37	n.a.	W24
T 25	13 59 50	1° 8'48	7♊45	23°43	8°49	13°41	7°32	5°19	12°49	1°12	26°41	23°19	24° 4	21°44	n.a.	T 25
F 26	14 3 46	2° 6'18	19°55	24°42	8°14	14°25	7°32	5°16	12°49	1°14	26°42	23°13	24° 1	21°51	n.a.	F 26
S 27	14 7 43	3° 3'46	2♋15	25°37	7°37	15° 8	7°33	5°13	12°48	1°16	26°43	23° 9	23°58	21°58	n.a.	S 27
S 28	14 11 39	4° 1'13	14°49	26°28	7° 0	15°52	7°33	5° 9	12°48	1°18	26°45	23° 7	23°55	22° 4	n.a.	S 28
M29	14 15 36	4°58'39	27°40	27°15	6°22	16°35	7°R33	5° 6	12°47	1°19	26°46	23°D 7	23°52	22°11	n.a.	M29
T 30	14 19 32	5♉56'04	10♌53	27♉58	5♉45	17♈18	7♑33	5♐ 2	12♑47	1♈21	26♈47	23°R 7	23♋49	22♈18	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
M 1	3n13	21n45	0s40	5n30	0n13	21n19	5n40	2s19	0s48	23s42	0s 9	20s 6	1n31	23s33	0s27	1s31	1s48	2s55	14s 5	21n10	21n18	2n49		n.a.	M 1
T 2	3 37	20 29	0n30	6 30	0 23	21 25	5 41	2 1	0 47	23 42	0 9	20 6	1 31	23 33	0 27	1 30	1 48	2 55	14 5	21 10	21 19	2 51		n.a.	T 2
W 3	4 0	17 59	1 41	7 29	0 34	21 30	5 43	1 43	0 47	23 42	0 9	20 6	1 31	23 33	0 27	1 29	1 48	2 54	14 5	21 11	21 20	2 54		n.a.	W 3
T 4	4 23	14 19	2 48	8 28	0 45	21 35	5 44	1 24	0 46	23 42	0 9	20 5	1 31	23 33	0 27	1 28	1 48	2 53	14 4	21 11	21 20	2 56		n.a.	T 4
F 5	4 45	9 41	3 46	9 25	0 55	21 38	5 44	1 6	0 46	23 42	0 10	20 5	1 31	23 33	0 27	1 27	1 48	2 53	14 4	21 13	21 21	2 59		n.a.	F 5
S 6	5 8	4 20	4 30	10 21	1 6	21 40	5 44	0 48	0 45	23 42	0 10	20 5	1 31	23 33	0 28	1 26	1 48	2 52	14 4	21 14	21 21	3 1		n.a.	S 6
S 7	5 31	1s21	4 56	11 15	1 16	21 42	5 44	0 29	0 45	23 42	0 10	20 4	1 31	23 33	0 28	1 26	1 48	2 52	14 4	21 16	21 22	3 3		n.a.	S 7
M 8	5 54	6 58	5 0	12 8	1 25	21 42	5 43	0 11	0 45	23 42	0 10	20 4	1 31	23 33	0 28	1 25	1 48	2 51	14 4	21 18	21 22	3 6		n.a.	M 8
T 9	6 16	12 6	4 43	12 59	1 34	21 40	5 42	0n 7	0 44	23 42	0 10	20 3	1 31	23 33	0 28	1 24	1 48	2 51	14 4	21 20	21 23	3 8		n.a.	T 9
W10	6 39	16 23	4 7	13 47	1 43	21 38	5 41	0 26	0 44	23 42	0 10	20 3	1 31	23 33	0 28	1 23	1 48	2 50	14 4	21 21	21 24	3 11		n.a.	W10
T 11	7 1	19 33	3 16	14 34	1 51	21 35	5 39	0 44	0 43	23 42	0 11	20 3	1 31	23 33	0 28	1 22	1 48	2 50	14 4	21 22	21 24	3 13		n.a.	T 11
F 12	7 23	21 27	2 15	15 18	1 58	21 30	5 36	1 2	0 43	23 42	0 11	20 2	1 31	23 33	0 28	1 21	1 48	2 49	14 4	21 23	21 25	3 16		n.a.	F 12
S 13	7 46	22 2	1 8	16 0	2 5	21 24	5 33	1 20	0 42	23 42	0 11	20 2	1 31	23 33	0 28	1 20	1 48	2 49	14 4	21 23	21 25	3 18		n.a.	S 13
S 14	8 8	21 22	0s 1	16 39	2 11	21 17	5 29	1 38	0 42	23 42	0 11	20 1	1 31	23 33	0 28	1 20	1 48	2 48	14 4	21 23	21 26	3 21		n.a.	S 14
M15	8 29	19 37	1 7	17 16	2 16	21 8	5 25	1 56	0 41	23 42	0 11	20 1	1 31	23 33	0 28	1 19	1 48	2 48	14 4	21 23	21 26	3 23		n.a.	M15
T 16	8 51	16 59	2 9	17 51	2 20	20 58	5 20	2 14	0 41	23 42	0 11	20 0	1 31	23 33	0 28	1 18	1 48	2 47	14 4	21 23	21 27	3 26		n.a.	T 16
W17	9 13	13 37	3 4	18 23	2 24	20 47	5 15	2 32	0 40	23 42	0 12	20 0	1 32	23 33	0 28	1 17	1 48	2 46	14 3	21 24	21 28	3 28		n.a.	W17
T 18	9 34	9 45	3 49	18 53	2 27	20 34	5 9	2 50	0 40	23 42	0 12	19 59	1 32	23 33	0 28	1 16	1 48	2 46	14 3	21 25	21 28	3 31		n.a.	T 18
F 19	9 56	5 32	4 24	19 20	2 29	20 20	5 2	3 8	0 39	23 42	0 12	19 59	1 32	23 33	0 28	1 15	1 48	2 45	14 3	21 27	21 29	3 33		n.a.	F 19
S 20	10 17	1 8	4 48	19 45	2 30	20 5	4 55	3 26	0 39	23 42	0 12	19 58	1 32	23 33	0 28	1 15	1 48	2 45	14 3	21 29	21 29	3 36		n.a.	S 20
S 21	10 38	3n18	4 59	20 7	2 31	19 49	4 47	3 44	0 38	23 42	0 12	19 58	1 32	23 33	0 28	1 14	1 48	2 44	14 3	21 32	21 30	3 38		n.a.	S 21
M22	10 59	7 37	4 57	20 27	2 30	19 31	4 38	4 2	0 37	23 42	0 12	19 57	1 32	23 33	0 28	1 13	1 48	2 44	14 3	21 34	21 30	3 40		n.a.	M22
T 23	11 19	11 40	4 42	20 45	2 29	19 12	4 29	4 19	0 37	23 42	0 13	19 57	1 32	23 33	0 28	1 12	1 48	2 43	14 3	21 36	21 31	3 43		n.a.	T 23
W24	11 40	15 17	4 14	21 1	2 27	18 52	4 19	4 37	0 36	23 42	0 13	19 56	1 32	23 33	0 28	1 11	1 48	2 43	14 3	21 38	21 32	3 45		n.a.	W24
T 25	12 0	18 19	3 35	21 14	2 24	18 31	4 9	4 55	0 36	23 42	0 13	19 55	1 32	23 33	0 28	1 11	1 49	2 42	14 3	21 40	21 32	3 48		n.a.	T 25
F 26	12 20	20 34	2 46	21 25	2 20	18 9	3 58	5 12	0 35	23 43	0 13	19 55	1 32	23 33	0 28	1 10	1 49	2 42	14 3	21 41	21 33	3 50		n.a.	F 26
S 27	12 40	21 53	1 48	21 34	2 15	17 46	3 46	5 30	0 35	23 43	0 13	19 54	1 32	23 33	0 28	1 9	1 49	2 42	14 3	21 42	21 33	3 53		n.a.	S 27
S 28	13 0	22 9	0 44	21 41	2 9	17 22	3 34	5 47	0 34	23 43	0 14	19 54	1 32	23 33	0 28	1 8	1 49	2 41	14 3	21 42	21 34	3 55		n.a.	S 28
M29	13 20	21 15	0n24	21 45	2 3	16 58	3 22	6 4	0 34	23 43	0 14	19 53	1 32	23 33	0 28	1 8	1 49	2 41	14 3	21 42	21 34	3 58		n.a.	M29
T 30	13n39	19n11	1n33	21n48	1n55	16n33	3n 9	6n22	0s33	23s43	0s14	19s52	1n32	23s33	0s28	1s 7	1s49	2s40	14s 3	21n42	21n35	4n 0		n.a.	T 30

Julian Day Number = 1683527.5, Delta T = 03h14m13s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'52, Lahiri = - 5°22'52 Julian Calendar 1 Apr. 104 BCE == Greg. Calendar 29 March 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

MAY 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	14 23 29	6♉53'26	24♌31	28♉36	5°R 7	18♈ 1	7°R33	4°R59	12°R47	1♈23	26♈49	23°R 6	23♋45	22♈25	n.a.	W 1
T 2	14 27 25	7°50'48	8♍36	29°10	4♉29	18°45	7♑32	4♐55	12♑46	1°25	26°50	23♋ 3	23°42	22°31	n.a.	T 2
F 3	14 31 22	8°48'08	23° 8	29°40	3°52	19°28	7°31	4°52	12°45	1°27	26°51	22°58	23°39	22°38	n.a.	F 3
S 4	14 35 19	9°45'27	8♎ 2	0♊ 5	3°16	20°11	7°30	4°48	12°45	1°29	26°53	22°50	23°36	22°45	n.a.	S 4
S 5	14 39 15	10°42'45	23°13	0°25	2°41	20°54	7°29	4°44	12°44	1°31	26°54	22°41	23°33	22°51	n.a.	S 5
M 6	14 43 12	11°40'02	8♏29	0°41	2° 6	21°36	7°28	4°40	12°43	1°33	26°55	22°31	23°29	22°58	n.a.	M 6
T 7	14 47 8	12°37'19	23°41	0°53	1°34	22°19	7°27	4°36	12°43	1°35	26°57	22°22	23°26	23° 5	n.a.	T 7
W 8	14 51 5	13°34'34	8♐36	0°59	1° 2	23° 2	7°25	4°33	12°42	1°36	26°58	22°14	23°23	23°12	n.a.	W 8
T 9	14 55 1	14°31'49	23° 9	1°R 2	0°33	23°45	7°23	4°29	12°41	1°38	26°59	22° 9	23°20	23°18	n.a.	T 9
F 10	14 58 58	15°29'03	7♑13	0°59	0° 5	24°27	7°21	4°25	12°40	1°40	27° 1	22° 6	23°17	23°25	n.a.	F 10
S 11	15 2 54	16°26'17	20°49	0°52	29♈40	25°10	7°19	4°21	12°39	1°42	27° 2	22°D 5	23°14	23°32	n.a.	S 11
S 12	15 6 51	17°23'30	3♒56	0°41	29°16	25°53	7°16	4°16	12°38	1°43	27° 3	22° 5	23°10	23°39	n.a.	S 12
M13	15 10 48	18°20'43	16°40	0°26	28°55	26°35	7°14	4°12	12°37	1°45	27° 5	22°R 6	23° 7	23°45	n.a.	M13
T 14	15 14 44	19°17'56	29° 5	0° 7	28°36	27°18	7°11	4° 8	12°36	1°47	27° 6	22° 5	23° 4	23°52	n.a.	T 14
W15	15 18 41	20°15'08	11♓14	29♉45	28°19	28° 0	7° 8	4° 4	12°35	1°48	27° 7	22° 3	23° 1	23°59	n.a.	W15
T 16	15 22 37	21°12'19	23°14	29°20	28° 5	28°42	7° 5	4° 0	12°34	1°50	27° 8	21°59	22°58	24° 5	n.a.	T 16
F 17	15 26 34	22° 9'31	5♈ 7	28°51	27°53	29°25	7° 2	3°56	12°32	1°52	27°10	21°52	22°55	24°12	n.a.	F 17
S 18	15 30 30	23° 6'42	16°58	28°21	27°44	0♉ 7	6°58	3°51	12°31	1°53	27°11	21°43	22°51	24°19	n.a.	S 18
S 19	15 34 27	24° 3'52	28°50	27°49	27°37	0°49	6°54	3°47	12°30	1°55	27°12	21°33	22°48	24°26	n.a.	S 19
M20	15 38 23	25° 1'03	10♉45	27°15	27°32	1°31	6°51	3°43	12°28	1°56	27°13	21°22	22°45	24°32	n.a.	M20
T 21	15 42 20	25°58'13	22°44	26°41	27°D30	2°13	6°47	3°38	12°27	1°58	27°14	21°12	22°42	24°39	n.a.	T 21
W22	15 46 17	26°55'23	4♊49	26° 6	27°30	2°55	6°42	3°34	12°26	1°59	27°16	21° 3	22°39	24°46	n.a.	W22
T 23	15 50 13	27°52'32	17° 2	25°33	27°32	3°37	6°38	3°30	12°24	2° 1	27°17	20°56	22°35	24°52	n.a.	T 23
F 24	15 54 10	28°49'41	29°23	25° 0	27°37	4°19	6°34	3°25	12°23	2° 2	27°18	20°51	22°32	24°59	n.a.	F 24
S 25	15 58 6	29°46'50	11♋54	24°29	27°44	5° 1	6°29	3°21	12°21	2° 4	27°19	20°49	22°29	25° 6	n.a.	S 25
S 26	16 2 3	0♊43'58	24°38	24° 0	27°53	5°43	6°24	3°17	12°20	2° 5	27°20	20°D49	22°26	25°13	n.a.	S 26
M27	16 5 59	1°41'06	7♌36	23°33	28° 4	6°25	6°19	3°12	12°18	2° 6	27°22	20°50	22°23	25°19	n.a.	M27
T 28	16 9 56	2°38'13	20°53	23°10	28°17	7° 6	6°14	3° 8	12°16	2° 8	27°23	20°51	22°20	25°26	n.a.	T 28
W29	16 13 52	3°35'20	4♍29	22°50	28°32	7°48	6° 9	3° 3	12°15	2° 9	27°24	20°R51	22°16	25°33	n.a.	W29
T 30	16 17 49	4°32'26	18°26	22°35	28°49	8°30	6° 3	2°59	12°13	2°10	27°25	20°50	22°13	25°40	n.a.	T 30
F 31	16 21 46	5♊29'32	2♎45	22♉23	29♈ 8	9♉11	5♑58	2♐55	12♑11	2♈11	27♈26	20♋48	22♋10	25♈46	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
W 1	13n58	15n58	2n38	21n48	1n47	16n 8	2n56	6n39	0s33	23s43	0s14	19s52	1n32	23s33	0s28	1s 6	1s49	2s40	14s 3	21n42	21n35	4n 3			n.a.
T 2	14 17	11 46	3 36	21 47	1 37	15 42	2 43	6 56	0 32	23 44	0 14	19 51	1 32	23 33	0 28	1 5	1 49	2 39	14 3	21 43	21 36	4 5			n.a.
F 3	14 36	6 46	4 22	21 43	1 27	15 17	2 29	7 13	0 31	23 44	0 14	19 50	1 32	23 33	0 28	1 5	1 49	2 39	14 3	21 44	21 37	4 8			n.a.
S 4	14 54	1 14	4 52	21 38	1 16	14 51	2 15	7 30	0 31	23 44	0 15	19 50	1 32	23 34	0 28	1 4	1 49	2 38	14 3	21 45	21 37	4 10			n.a.
S 5	15 12	4s27	5 2	21 30	1 4	14 26	2 1	7 47	0 30	23 44	0 15	19 49	1 32	23 34	0 28	1 3	1 49	2 38	14 3	21 46	21 38	4 13			n.a.
M 6	15 30	9 55	4 50	21 21	0 51	14 0	1 47	8 3	0 30	23 45	0 15	19 48	1 32	23 34	0 28	1 2	1 49	2 38	14 3	21 48	21 38	4 15			n.a.
T 7	15 48	14 44	4 18	21 10	0 38	13 36	1 33	8 20	0 29	23 45	0 15	19 48	1 32	23 34	0 28	1 2	1 49	2 37	14 4	21 50	21 39	4 18			n.a.
W 8	16 5	18 32	3 29	20 58	0 23	13 11	1 19	8 37	0 29	23 45	0 15	19 47	1 32	23 34	0 28	1 1	1 49	2 37	14 4	21 51	21 39	4 20			n.a.
T 9	16 23	21 4	2 27	20 44	0 8	12 48	1 5	8 53	0 28	23 45	0 16	19 46	1 32	23 34	0 29	1 0	1 49	2 36	14 4	21 52	21 40	4 23			n.a.
F 10	16 40	22 12	1 18	20 28	0s 7	12 25	0 51	9 10	0 27	23 46	0 16	19 45	1 32	23 34	0 29	1 0	1 49	2 36	14 4	21 52	21 40	4 25			n.a.
S 11	16 56	21 58	0 7	20 11	0 23	12 3	0 37	9 26	0 27	23 46	0 16	19 45	1 32	23 34	0 29	0 59	1 49	2 36	14 4	21 52	21 41	4 28			n.a.
S 12	17 13	20 30	1s 3	19 53	0 39	11 42	0 24	9 42	0 26	23 46	0 16	19 44	1 32	23 34	0 29	0 58	1 49	2 35	14 4	21 52	21 42	4 30			n.a.
M13	17 29	18 2	2 7	19 33	0 56	11 22	0 10	9 58	0 26	23 47	0 16	19 43	1 32	23 35	0 29	0 58	1 49	2 35	14 4	21 52	21 42	4 33			n.a.
T 14	17 45	14 47	3 4	19 13	1 13	11 3	0s 2	10 14	0 25	23 47	0 17	19 43	1 32	23 35	0 29	0 57	1 49	2 34	14 4	21 52	21 43	4 35			n.a.
W15	18 0	10 59	3 51	18 52	1 30	10 46	0 15	10 30	0 24	23 47	0 17	19 42	1 32	23 35	0 29	0 57	1 49	2 34	14 4	21 53	21 43	4 37			n.a.
T 16	18 16	6 48	4 27	18 30	1 47	10 29	0 27	10 46	0 24	23 48	0 17	19 41	1 32	23 35	0 29	0 56	1 49	2 34	14 4	21 53	21 44	4 40			n.a.
F 17	18 31	2 24	4 51	18 7	2 3	10 14	0 39	11 2	0 23	23 48	0 17	19 40	1 32	23 35	0 29	0 55	1 49	2 33	14 4	21 55	21 44	4 42			n.a.
S 18	18 45	2n 5	5 3	17 45	2 20	10 0	0 51	11 17	0 23	23 49	0 17	19 40	1 32	23 35	0 29	0 55	1 49	2 33	14 4	21 56	21 45	4 45			n.a.
S 19	19 0	6 29	5 2	17 22	2 35	9 47	1 2	11 33	0 22	23 49	0 17	19 39	1 31	23 35	0 29	0 54	1 50	2 33	14 4	21 58	21 45	4 47			n.a.
M20	19 14	10 40	4 47	17 0	2 50	9 35	1 12	11 48	0 21	23 49	0 18	19 38	1 31	23 36	0 29	0 54	1 50	2 32	14 5	21 59	21 46	4 50			n.a.
T 21	19 28	14 28	4 20	16 39	3 4	9 25	1 23	12 3	0 21	23 50	0 18	19 37	1 31	23 36	0 29	0 53	1 50	2 32	14 5	22 1	21 46	4 52			n.a.
W22	19 41	17 43	3 41	16 18	3 17	9 16	1 33	12 18	0 20	23 50	0 18	19 36	1 31	23 36	0 29	0 53	1 50	2 32	14 5	22 2	21 47	4 55			n.a.
T 23	19 54	20 14	2 51	15 58	3 29	9 8	1 42	12 33	0 20	23 51	0 18	19 36	1 31	23 36	0 29	0 52	1 50	2 31	14 5	22 3	21 47	4 57			n.a.
F 24	20 7	21 50	1 53	15 40	3 40	9 1	1 51	12 48	0 19	23 51	0 18	19 35	1 31	23 36	0 29	0 51	1 50	2 31	14 5	22 4	21 48	5 0			n.a.
S 25	20 20	22 22	0 48	15 23	3 50	8 55	2 0	13 3	0 18	23 51	0 19	19 34	1 31	23 36	0 29	0 51	1 50	2 31	14 5	22 4	21 48	5 2			n.a.
S 26	20 32	21 46	0n21	15 8	3 58	8 51	2 8	13 18	0 18	23 52	0 19	19 33	1 31	23 37	0 29	0 50	1 50	2 30	14 5	22 4	21 49	5 5			n.a.
M27	20 44	20 1	1 29	14 55	4 5	8 47	2 16	13 32	0 17	23 52	0 19	19 33	1 31	23 37	0 29	0 50	1 50	2 30	14 5	22 4	21 49	5 7			n.a.
T 28	20 55	17 8	2 35	14 44	4 11	8 45	2 23	13 47	0 16	23 53	0 19	19 32	1 31	23 37	0 29	0 49	1 50	2 30	14 6	22 4	21 50	5 10			n.a.
W29	21 6	13 17	3 33	14 35	4 15	8 44	2 31	14 1	0 16	23 53	0 19	19 31	1 31	23 37	0 29	0 49	1 50	2 30	14 6	22 4	21 51	5 12			n.a.
T 30	21 17	8 37	4 21	14 28	4 17	8 44	2 37	14 15	0 15	23 54	0 20	19 30	1 31	23 37	0 29	0 49	1 50	2 29	14 6	22 4	21 51	5 15			n.a.
F 31	21n28	3n23	4n54	14n24	4s19	8n44	2s44	14n29	0s14	23s54	0s20	19s29	1n31	23s37	0s29	0s48	1s50	2s29	14s 6	22n 5	21n52	5n17			n.a.

Julian Day Number = 1683557.5, Delta T = 03h14m12s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'48, Lahiri = - 5°22'48 Julian Calendar 1 May 104 BCE == Greg. Calendar 28 Apr. 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

JUNE 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 25 42	6♊26'37	17♎22	22°R16	29♈28	9♉52	5°R52	2°R50	12°R 9	2♈13	27♈27	20°R43	22♋ 7	25♈53	n.a.	S 1
S 2	16 29 39	7°23'43	2♏14	22°D13	29°51	10°34	5♑46	2♐46	12♑ 8	2°14	27°28	20♋38	22° 4	26° 0	n.a.	S 2
M 3	16 33 35	8°20'48	17°12	22♉15	0♉15	11°15	5°40	2°41	12° 6	2°15	27°29	20°32	22° 1	26° 6	n.a.	M 3
T 4	16 37 32	9°17'53	2♐ 8	22°22	0°40	11°56	5°34	2°37	12° 4	2°16	27°30	20°26	21°57	26°13	n.a.	T 4
W 5	16 41 28	10°14'58	16°54	22°35	1° 8	12°38	5°28	2°33	12° 2	2°17	27°31	20°21	21°54	26°20	n.a.	W 5
T 6	16 45 25	11°12'04	1♑21	22°52	1°37	13°19	5°22	2°28	12° 0	2°18	27°33	20°18	21°51	26°27	n.a.	T 6
F 7	16 49 22	12° 9'10	15°24	23°14	2° 7	14° 0	5°15	2°24	11°58	2°19	27°34	20°D16	21°48	26°33	n.a.	F 7
S 8	16 53 18	13° 6'16	29° 2	23°41	2°38	14°41	5° 9	2°20	11°56	2°20	27°35	20°17	21°45	26°40	n.a.	S 8
S 9	16 57 15	14° 3'22	12♒13	24°14	3°12	15°22	5° 2	2°16	11°54	2°21	27°36	20°18	21°41	26°47	n.a.	S 9
M10	17 1 11	15° 0'29	25° 1	24°51	3°46	16° 3	4°55	2°11	11°52	2°22	27°37	20°19	21°38	26°54	n.a.	M10
T 11	17 5 8	15°57'36	7♓29	25°33	4°22	16°44	4°48	2° 7	11°50	2°23	27°38	20°21	21°35	27° 0	n.a.	T 11
W12	17 9 4	16°54'44	19°41	26°21	4°58	17°25	4°41	2° 3	11°48	2°24	27°38	20°R21	21°32	27° 7	n.a.	W12
T 13	17 13 1	17°51'53	1♈42	27°13	5°36	18° 5	4°34	1°59	11°46	2°25	27°39	20°20	21°29	27°14	n.a.	T 13
F 14	17 16 57	18°49'02	13°36	28°10	6°15	18°46	4°27	1°55	11°44	2°26	27°40	20°18	21°26	27°20	n.a.	F 14
S 15	17 20 54	19°46'12	25°28	29°11	6°56	19°27	4°20	1°51	11°42	2°27	27°41	20°14	21°22	27°27	n.a.	S 15
S 16	17 24 51	20°43'23	7♉22	0♊18	7°37	20° 7	4°13	1°47	11°39	2°27	27°42	20° 9	21°19	27°34	n.a.	S 16
M17	17 28 47	21°40'34	19°20	1°29	8°19	20°48	4° 5	1°42	11°37	2°28	27°43	20° 5	21°16	27°41	n.a.	M17
T 18	17 32 44	22°37'46	1♊26	2°44	9° 2	21°29	3°58	1°39	11°35	2°29	27°44	20° 0	21°13	27°47	n.a.	T 18
W19	17 36 40	23°34'59	13°41	4° 4	9°46	22° 9	3°50	1°35	11°33	2°30	27°45	19°56	21°10	27°54	n.a.	W19
T 20	17 40 37	24°32'12	26° 7	5°29	10°31	22°49	3°43	1°31	11°31	2°30	27°46	19°53	21° 7	28° 1	n.a.	T 20
F 21	17 44 33	25°29'26	8♋44	6°57	11°17	23°30	3°35	1°27	11°28	2°31	27°46	19°51	21° 3	28° 7	n.a.	F 21
S 22	17 48 30	26°26'40	21°34	8°30	12° 4	24°10	3°27	1°23	11°26	2°31	27°47	19°D51	21° 0	28°14	n.a.	S 22
S 23	17 52 26	27°23'55	4♌36	10° 7	12°51	24°50	3°20	1°19	11°24	2°32	27°48	19°52	20°57	28°21	n.a.	S 23
M24	17 56 23	28°21'11	17°52	11°47	13°40	25°30	3°12	1°16	11°21	2°32	27°49	19°53	20°54	28°28	n.a.	M24
T 25	18 0 20	29°18'27	1♍21	13°32	14°29	26°10	3° 4	1°12	11°19	2°33	27°49	19°54	20°51	28°34	n.a.	T 25
W26	18 4 16	0♋15'44	15° 5	15°19	15°18	26°51	2°57	1° 9	11°17	2°33	27°50	19°55	20°47	28°41	n.a.	W26
T 27	18 8 13	1°13'01	29° 3	17°10	16° 9	27°31	2°49	1° 5	11°14	2°34	27°51	19°R56	20°44	28°48	n.a.	T 27
F 28	18 12 9	2°10'18	13♎14	19° 3	17° 0	28°10	2°41	1° 2	11°12	2°34	27°52	19°56	20°41	28°55	n.a.	F 28
S 29	18 16 6	3° 7'36	27°35	21° 0	17°51	28°50	2°33	0°58	11°10	2°35	27°52	19°55	20°38	29° 1	n.a.	S 29
S 30	18 20 2	4♋ 4'55	12♏ 5	22♊58	18♉43	29♉30	2♑26	0♐55	11♑ 7	2♈35	27♈53	19♋53	20♋35	29♈ 8	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n38	2s 9	5n 8	14n22	4s19	8n46	2s50	14n43	0s14	23s54	0s20	19s29	1n31	23s38	0s29	0s48	1s50	2s29	14s 6	22n 5	21n52	5n20		n.a.
S 2	21 47	7 39	5 2	14 23	4 17	8 49	2 55	14 57	0 13	23 55	0 20	19 28	1 31	23 38	0 29	0 47	1 50	2 29	14 6	22 6	21 53	5 22		n.a.
M 3	21 57	12 45	4 36	14 26	4 15	8 52	3 1	15 10	0 13	23 55	0 20	19 27	1 30	23 38	0 29	0 47	1 50	2 28	14 6	22 7	21 53	5 25		n.a.
T 4	22 6	17 3	3 51	14 32	4 11	8 56	3 5	15 24	0 12	23 56	0 21	19 26	1 30	23 38	0 29	0 46	1 50	2 28	14 7	22 8	21 54	5 27		n.a.
W 5	22 14	20 13	2 51	14 39	4 6	9 2	3 10	15 37	0 11	23 56	0 21	19 26	1 30	23 38	0 29	0 46	1 50	2 28	14 7	22 9	21 54	5 30		n.a.
T 6	22 22	22 1	1 41	14 49	4 0	9 8	3 14	15 50	0 11	23 57	0 21	19 25	1 30	23 39	0 29	0 46	1 51	2 28	14 7	22 9	21 55	5 32		n.a.
F 7	22 30	22 22	0 26	15 1	3 53	9 14	3 18	16 4	0 10	23 57	0 21	19 24	1 30	23 39	0 29	0 45	1 51	2 28	14 7	22 9	21 55	5 35		n.a.
S 8	22 37	21 21	0s47	15 16	3 46	9 22	3 22	16 16	0 9	23 58	0 21	19 23	1 30	23 39	0 29	0 45	1 51	2 27	14 7	22 9	21 56	5 37		n.a.
S 9	22 45	19 11	1 57	15 32	3 37	9 30	3 26	16 29	0 9	23 58	0 21	19 23	1 30	23 39	0 29	0 45	1 51	2 27	14 7	22 9	21 56	5 40		n.a.
M10	22 51	16 7	2 58	15 50	3 28	9 39	3 29	16 42	0 8	23 58	0 22	19 22	1 30	23 39	0 29	0 44	1 51	2 27	14 8	22 9	21 57	5 42		n.a.
T 11	22 57	12 23	3 49	16 10	3 18	9 48	3 32	16 54	0 7	23 59	0 22	19 21	1 30	23 40	0 29	0 44	1 51	2 27	14 8	22 9	21 57	5 45		n.a.
W12	23 3	8 14	4 29	16 31	3 7	9 58	3 34	17 7	0 7	23 59	0 22	19 20	1 29	23 40	0 29	0 44	1 51	2 27	14 8	22 9	21 58	5 47		n.a.
T 13	23 9	3 50	4 56	16 54	2 56	10 8	3 37	17 19	0 6	24 0	0 22	19 20	1 29	23 40	0 29	0 43	1 51	2 27	14 8	22 9	21 58	5 50		n.a.
F 14	23 14	0n40	5 10	17 18	2 44	10 19	3 39	17 31	0 5	24 0	0 22	19 19	1 29	23 40	0 29	0 43	1 51	2 27	14 8	22 9	21 59	5 52		n.a.
S 15	23 18	5 8	5 11	17 43	2 32	10 31	3 40	17 43	0 5	24 1	0 23	19 18	1 29	23 40	0 29	0 43	1 51	2 26	14 9	22 10	21 59	5 55		n.a.
S 16	23 23	9 25	4 58	18 10	2 20	10 42	3 42	17 54	0 4	24 1	0 23	19 18	1 29	23 41	0 29	0 43	1 51	2 26	14 9	22 10	22 0	5 57		n.a.
M17	23 26	13 23	4 33	18 37	2 7	10 55	3 43	18 6	0 3	24 1	0 23	19 17	1 29	23 41	0 29	0 42	1 51	2 26	14 9	22 11	22 0	6 0		n.a.
T 18	23 30	16 51	3 55	19 4	1 54	11 7	3 45	18 17	0 3	24 2	0 23	19 16	1 29	23 41	0 29	0 42	1 51	2 26	14 9	22 12	22 1	6 2		n.a.
W19	23 33	19 38	3 5	19 33	1 41	11 20	3 46	18 29	0 2	24 2	0 23	19 16	1 29	23 41	0 29	0 42	1 51	2 26	14 9	22 12	22 1	6 5		n.a.
T 20	23 36	21 32	2 7	20 1	1 28	11 34	3 46	18 40	0 1	24 3	0 23	19 15	1 28	23 41	0 29	0 42	1 51	2 26	14 10	22 13	22 2	6 7		n.a.
F 21	23 38	22 24	1 1	20 29	1 14	11 47	3 47	18 51	0 1	24 3	0 24	19 14	1 28	23 42	0 29	0 42	1 52	2 26	14 10	22 13	22 2	6 10		n.a.
S 22	23 39	22 7	0n 9	20 58	1 1	12 1	3 47	19 1	0n 0	24 3	0 24	19 14	1 28	23 42	0 29	0 41	1 52	2 26	14 10	22 13	22 3	6 12		n.a.
S 23	23 41	20 37	1 20	21 25	0 48	12 16	3 47	19 12	0 1	24 4	0 24	19 13	1 28	23 42	0 30	0 41	1 52	2 26	14 10	22 13	22 3	6 14		n.a.
M24	23 42	18 0	2 28	21 52	0 35	12 30	3 47	19 22	0 1	24 4	0 24	19 12	1 28	23 42	0 30	0 41	1 52	2 26	14 10	22 13	22 4	6 17		n.a.
T 25	23 42	14 22	3 29	22 19	0 22	12 45	3 47	19 33	0 2	24 4	0 24	19 12	1 28	23 43	0 30	0 41	1 52	2 26	14 11	22 13	22 4	6 19		n.a.
W26	23 42	9 55	4 19	22 44	0 10	12 59	3 47	19 43	0 3	24 5	0 24	19 11	1 28	23 43	0 30	0 41	1 52	2 26	14 11	22 13	22 5	6 22		n.a.
T 27	23 42	4 53	4 55	23 7	0n 2	13 14	3 46	19 53	0 3	24 5	0 25	19 11	1 27	23 43	0 30	0 41	1 52	2 26	14 11	22 12	22 5	6 24		n.a.
F 28	23 41	0s28	5 13	23 29	0 14	13 30	3 46	20 3	0 4	24 5	0 25	19 10	1 27	23 43	0 30	0 41	1 52	2 26	14 11	22 13	22 6	6 27		n.a.
S 29	23 40	5 52	5 13	23 49	0 25	13 45	3 45	20 12	0 5	24 6	0 25	19 10	1 27	23 43	0 30	0 40	1 52	2 25	14 12	22 13	22 6	6 29		n.a.
S 30	23n39	11s 0	4n52	24n 7	0n36	14n 0	3s44	20n22	0n 6	24s 6	0s25	19s 9	1n27	23s44	0s30	0s40	1s52	2s25	14s12	22n13	22n 7	6n32		n.a.

Julian Day Number = 1683588.5, Delta T = 03h14m11s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'44, Lahiri = - 5°22'43 Julian Calendar 1 June 104 BCE == Greg. Calendar 29 May 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

JULY 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	18 23 59	5♋ 2'15	26♏38	24♊58	19♉36	0♊10	2°R18	0°R52	11°R 5	2♈35	27♈53	19°R51	20♋32	29♈15	n.a.	M 1
T 2	18 27 55	5°59'35	11♐ 9	27° 0	20°30	0°50	2♑10	0♐48	11♑ 3	2°35	27°54	19♋49	20°28	29°21	n.a.	T 2
W 3	18 31 52	6°56'56	25°31	29° 3	21°24	1°29	2° 2	0°45	11° 0	2°36	27°55	19°48	20°25	29°28	n.a.	W 3
T 4	18 35 49	7°54'18	9♑41	1♋ 7	22°18	2° 9	1°55	0°42	10°58	2°36	27°55	19°47	20°22	29°35	n.a.	T 4
F 5	18 39 45	8°51'42	23°32	3°12	23°13	2°48	1°47	0°39	10°55	2°36	27°56	19°D47	20°19	29°42	n.a.	F 5
S 6	18 43 42	9°49'06	7♒ 3	5°17	24° 9	3°28	1°39	0°36	10°53	2°36	27°56	19°48	20°16	29°48	n.a.	S 6
S 7	18 47 38	10°46'32	20°12	7°22	25° 5	4° 7	1°32	0°34	10°51	2°36	27°57	19°48	20°13	29°55	n.a.	S 7
M 8	18 51 35	11°43'59	3♓ 0	9°26	26° 1	4°47	1°24	0°31	10°48	2°36	27°57	19°49	20° 9	0♉ 2	n.a.	M 8
T 9	18 55 31	12°41'27	15°30	11°31	26°58	5°26	1°17	0°28	10°46	2°R36	27°58	19°50	20° 6	0° 9	n.a.	T 9
W10	18 59 28	13°38'56	27°44	13°34	27°56	6° 5	1° 9	0°25	10°43	2°36	27°58	19°50	20° 3	0°15	n.a.	W10
T 11	19 3 25	14°36'27	9♈47	15°37	28°54	6°44	1° 2	0°23	10°41	2°36	27°59	19°R51	20° 0	0°22	n.a.	T 11
F 12	19 7 21	15°34'00	21°42	17°38	29°52	7°23	0°55	0°20	10°39	2°36	27°59	19°51	19°57	0°29	n.a.	F 12
S 13	19 11 18	16°31'34	3♉35	19°39	0♊51	8° 3	0°47	0°18	10°36	2°36	28° 0	19°50	19°53	0°35	n.a.	S 13
S 14	19 15 14	17°29'10	15°30	21°38	1°50	8°42	0°40	0°16	10°34	2°36	28° 0	19°50	19°50	0°42	n.a.	S 14
M15	19 19 11	18°26'47	27°31	23°36	2°49	9°21	0°33	0°14	10°31	2°36	28° 0	19°50	19°47	0°49	n.a.	M15
T 16	19 23 7	19°24'26	9♊42	25°33	3°49	10° 0	0°26	0°11	10°29	2°36	28° 1	19°D50	19°44	0°56	n.a.	T 16
W17	19 27 4	20°22'07	22° 6	27°29	4°49	10°38	0°19	0° 9	10°27	2°35	28° 1	19°50	19°41	1° 2	n.a.	W17
T 18	19 31 0	21°19'49	4♋45	29°23	5°50	11°17	0°12	0° 7	10°24	2°35	28° 1	19°50	19°38	1° 9	n.a.	T 18
F 19	19 34 57	22°17'33	17°40	1♌16	6°51	11°56	0° 6	0° 6	10°22	2°35	28° 2	19°R50	19°34	1°16	n.a.	F 19
S 20	19 38 54	23°15'18	0♌51	3° 7	7°52	12°35	29♐59	0° 4	10°20	2°34	28° 2	19°50	19°31	1°22	n.a.	S 20
S 21	19 42 50	24°13'05	14°18	4°57	8°54	13°13	29°53	0° 2	10°17	2°34	28° 2	19°50	19°28	1°29	n.a.	S 21
M22	19 46 47	25°10'53	27°58	6°45	9°56	13°52	29°46	0° 0	10°15	2°34	28° 2	19°49	19°25	1°36	n.a.	M22
T 23	19 50 43	26° 8'42	11♍51	8°33	10°58	14°30	29°40	29♏59	10°13	2°33	28° 2	19°49	19°22	1°43	n.a.	T 23
W24	19 54 40	27° 6'33	25°53	10°18	12° 0	15° 9	29°34	29°58	10°11	2°33	28° 3	19°48	19°19	1°49	n.a.	W24
T 25	19 58 36	28° 4'24	10♎ 1	12° 3	13° 3	15°47	29°28	29°56	10° 8	2°32	28° 3	19°47	19°15	1°56	n.a.	T 25
F 26	20 2 33	29° 2'18	24°14	13°46	14° 6	16°25	29°22	29°55	10° 6	2°32	28° 3	19°D47	19°12	2° 3	n.a.	F 26
S 27	20 6 29	0♏ 0'12	8♏28	15°27	15° 9	17° 4	29°16	29°54	10° 4	2°31	28° 3	19°47	19° 9	2°10	n.a.	S 27
S 28	20 10 26	0°58'08	22°41	17° 8	16°13	17°42	29°11	29°53	10° 2	2°31	28° 3	19°47	19° 6	2°16	n.a.	S 28
M29	20 14 23	1°56'06	6♐50	18°47	17°17	18°20	29° 5	29°52	9°59	2°30	28° 3	19°48	19° 3	2°23	n.a.	M29
T 30	20 18 19	2°54'05	20°54	20°24	18°21	18°58	29° 0	29°51	9°57	2°29	28° 3	19°49	18°59	2°30	n.a.	T 30
W31	20 22 16	3♏52'05	4♑48	22♏ 1	19♊25	19♊36	28♐55	29♏50	9♑55	2♈29	28♈ 3	19♋50	18♋56	2♉36	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
M 1	23n37	15s31	4n13	24n22	0n46	14n16	3s43	20n31	0n 6	24s 6	0s25	19s 9	1n27	23s44	0s30	0s40	1s52	2s26	14s12	22n13	22n 7	6n34			n.a.
T 2	23 34	19 6	3 18	24 35	0 55	14 31	3 41	20 40	0 7	24 7	0 25	19 8	1 27	23 44	0 30	0 40	1 52	2 26	14 12	22 13	22 8	6 37			n.a.
W 3	23 31	21 28	2 10	24 46	1 3	14 46	3 40	20 49	0 8	24 7	0 25	19 8	1 27	23 44	0 30	0 40	1 52	2 26	14 13	22 14	22 8	6 39			n.a.
T 4	23 28	22 25	0 56	24 53	1 11	15 2	3 38	20 57	0 8	24 7	0 26	19 7	1 26	23 44	0 30	0 40	1 52	2 26	14 13	22 14	22 9	6 42			n.a.
F 5	23 24	21 58	0s21	24 58	1 18	15 17	3 37	21 6	0 9	24 7	0 26	19 7	1 26	23 45	0 30	0 40	1 52	2 26	14 13	22 14	22 9	6 44			n.a.
S 6	23 20	20 14	1 34	25 0	1 25	15 33	3 35	21 14	0 10	24 8	0 26	19 6	1 26	23 45	0 30	0 40	1 53	2 26	14 13	22 14	22 10	6 47			n.a.
S 7	23 16	17 27	2 41	25 0	1 30	15 48	3 33	21 23	0 10	24 8	0 26	19 6	1 26	23 45	0 30	0 40	1 53	2 26	14 14	22 14	22 10	6 49			n.a.
M 8	23 11	13 53	3 37	24 57	1 35	16 4	3 31	21 31	0 11	24 8	0 26	19 5	1 26	23 45	0 30	0 40	1 53	2 26	14 14	22 13	22 10	6 52			n.a.
T 9	23 6	9 48	4 22	24 50	1 39	16 19	3 29	21 39	0 12	24 8	0 26	19 5	1 25	23 45	0 30	0 40	1 53	2 26	14 14	22 13	22 11	6 54			n.a.
W10	23 0	5 24	4 54	24 42	1 42	16 34	3 26	21 46	0 13	24 9	0 26	19 5	1 25	23 46	0 30	0 40	1 53	2 26	14 14	22 13	22 11	6 57			n.a.
T 11	22 54	0 52	5 12	24 31	1 44	16 49	3 24	21 54	0 13	24 9	0 27	19 4	1 25	23 46	0 30	0 41	1 53	2 26	14 15	22 13	22 12	6 59			n.a.
F 12	22 47	3n40	5 17	24 17	1 46	17 4	3 21	22 1	0 14	24 9	0 27	19 4	1 25	23 46	0 30	0 41	1 53	2 26	14 15	22 13	22 12	7 2			n.a.
S 13	22 40	8 2	5 8	24 1	1 47	17 19	3 19	22 8	0 15	24 9	0 27	19 4	1 25	23 46	0 30	0 41	1 53	2 26	14 15	22 13	22 13	7 4			n.a.
S 14	22 33	12 7	4 46	23 43	1 48	17 33	3 16	22 15	0 15	24 9	0 27	19 3	1 25	23 46	0 30	0 41	1 53	2 26	14 15	22 13	22 13	7 7			n.a.
M15	22 25	15 45	4 11	23 23	1 47	17 48	3 13	22 22	0 16	24 9	0 27	19 3	1 24	23 47	0 30	0 41	1 53	2 26	14 16	22 13	22 14	7 9			n.a.
T 16	22 17	18 47	3 25	23 1	1 47	18 2	3 11	22 28	0 17	24 10	0 27	19 3	1 24	23 47	0 30	0 41	1 53	2 27	14 16	22 13	22 14	7 12			n.a.
W17	22 9	21 1	2 28	22 37	1 45	18 16	3 8	22 35	0 18	24 10	0 27	19 2	1 24	23 47	0 30	0 41	1 53	2 27	14 16	22 13	22 15	7 14			n.a.
T 18	22 0	22 15	1 23	22 11	1 43	18 29	3 5	22 41	0 18	24 10	0 27	19 2	1 24	23 47	0 30	0 41	1 53	2 27	14 16	22 13	22 15	7 17			n.a.
F 19	21 50	22 20	0 12	21 44	1 41	18 43	3 1	22 47	0 19	24 10	0 28	19 2	1 24	23 47	0 30	0 42	1 53	2 27	14 17	22 13	22 16	7 19			n.a.
S 20	21 41	21 11	1n 1	21 16	1 38	18 56	2 58	22 53	0 20	24 10	0 28	19 2	1 23	23 48	0 30	0 42	1 53	2 27	14 17	22 13	22 16	7 22			n.a.
S 21	21 31	18 49	2 11	20 46	1 35	19 9	2 55	22 59	0 20	24 10	0 28	19 2	1 23	23 48	0 30	0 42	1 53	2 27	14 17	22 13	22 17	7 24			n.a.
M22	21 20	15 22	3 16	20 15	1 31	19 21	2 52	23 4	0 21	24 10	0 28	19 2	1 23	23 48	0 30	0 42	1 54	2 28	14 18	22 13	22 17	7 27			n.a.
T 23	21 9	11 2	4 10	19 43	1 27	19 34	2 48	23 10	0 22	24 10	0 28	19 1	1 23	23 48	0 30	0 42	1 54	2 28	14 18	22 14	22 17	7 29			n.a.
W24	20 58	6 4	4 49	19 10	1 22	19 46	2 45	23 15	0 23	24 10	0 28	19 1	1 23	23 48	0 30	0 43	1 54	2 28	14 18	22 14	22 18	7 32			n.a.
T 25	20 47	0 46	5 12	18 36	1 17	19 57	2 41	23 20	0 23	24 11	0 28	19 1	1 22	23 48	0 30	0 43	1 54	2 28	14 18	22 14	22 18	7 34			n.a.
F 26	20 35	4s37	5 16	18 1	1 12	20 8	2 38	23 24	0 24	24 11	0 28	19 1	1 22	23 49	0 30	0 43	1 54	2 28	14 19	22 14	22 19	7 37			n.a.
S 27	20 23	9 45	5 0	17 26	1 6	20 19	2 34	23 29	0 25	24 11	0 28	19 1	1 22	23 49	0 30	0 44	1 54	2 29	14 19	22 14	22 19	7 39			n.a.
S 28	20 10	14 22	4 26	16 50	1 0	20 29	2 30	23 33	0 26	24 11	0 28	19 1	1 22	23 49	0 30	0 44	1 54	2 29	14 19	22 14	22 20	7 42			n.a.
M29	19 57	18 9	3 36	16 13	0 54	20 39	2 27	23 38	0 26	24 11	0 29	19 1	1 22	23 49	0 30	0 44	1 54	2 29	14 19	22 14	22 20	7 44			n.a.
T 30	19 44	20 50	2 33	15 36	0 47	20 49	2 23	23 42	0 27	24 11	0 29	19 1	1 22	23 49	0 30	0 44	1 54	2 29	14 20	22 13	22 21	7 47			n.a.
W31	19n30	22s15	1n22	14n58	0n41	20n58	2s19	23n45	0n28	24s11	0s29	19s 1	1n21	23s49	0s30	0s45	1s54	2s29	14s20	22n13	22n21	7n49			n.a.

Julian Day Number = 1683618.5, Delta T = 03h14m10s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'40, Lahiri = - 5°22'39 Julian Calendar 1 July 104 BCE == Greg. Calendar 28 June 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

AUGUST 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	20 26 12	4♌50'07	18♑32	23♌36	20♊30	20♊14	28°R50	29°R50	9°R53	2°R28	28°R 3	19°R51	18♋53	2♉43	n.a.	T 1
F 2	20 30 9	5°48'11	2♒ 2	25°10	21°35	20°52	28♐45	29♏49	9♑51	2♈27	28♈ 3	19♋50	18°50	2°50	n.a.	F 2
S 3	20 34 5	6°46'16	15°17	26°42	22°40	21°30	28°41	29°48	9°49	2°26	28° 3	19°49	18°47	2°57	n.a.	S 3
S 4	20 38 2	7°44'23	28°16	28°14	23°45	22° 7	28°36	29°48	9°47	2°26	28° 3	19°47	18°44	3° 3	n.a.	S 4
M 5	20 41 58	8°42'33	10♓58	29°44	24°50	22°45	28°32	29°48	9°45	2°25	28° 3	19°44	18°40	3°10	n.a.	M 5
T 6	20 45 55	9°40'44	23°25	1♍12	25°56	23°23	28°28	29°48	9°43	2°24	28° 3	19°41	18°37	3°17	n.a.	T 6
W 7	20 49 51	10°38'57	5♈39	2°40	27° 2	24° 0	28°24	29°48	9°41	2°23	28° 3	19°38	18°34	3°23	n.a.	W 7
T 8	20 53 48	11°37'12	17°41	4° 6	28° 8	24°38	28°20	29°D48	9°39	2°22	28° 3	19°36	18°31	3°30	n.a.	T 8
F 9	20 57 45	12°35'29	29°36	5°31	29°15	25°15	28°16	29°48	9°37	2°21	28° 3	19°34	18°28	3°37	n.a.	F 9
S 10	21 1 41	13°33'49	11♉29	6°54	0♋21	25°53	28°13	29°48	9°35	2°20	28° 2	19°D33	18°24	3°44	n.a.	S 10
S 11	21 5 38	14°32'10	23°23	8°16	1°28	26°30	28°10	29°48	9°33	2°19	28° 2	19°34	18°21	3°50	n.a.	S 11
M12	21 9 34	15°30'34	5♊25	9°37	2°35	27° 7	28° 6	29°48	9°32	2°18	28° 2	19°35	18°18	3°57	n.a.	M12
T 13	21 13 31	16°29'00	17°37	10°56	3°42	27°45	28° 4	29°49	9°30	2°17	28° 2	19°36	18°15	4° 4	n.a.	T 13
W14	21 17 27	17°27'29	0♋ 5	12°13	4°50	28°22	28° 1	29°50	9°28	2°16	28° 1	19°38	18°12	4°10	n.a.	W14
T 15	21 21 24	18°26'00	12°51	13°29	5°57	28°59	27°58	29°50	9°26	2°15	28° 1	19°39	18° 9	4°17	n.a.	T 15
F 16	21 25 20	19°24'32	26° 0	14°44	7° 5	29°36	27°56	29°51	9°25	2°14	28° 1	19°R39	18° 5	4°24	n.a.	F 16
S 17	21 29 17	20°23'07	9♌29	15°57	8°13	0♋13	27°54	29°52	9°23	2°13	28° 1	19°38	18° 2	4°31	n.a.	S 17
S 18	21 33 14	21°21'44	23°20	17° 8	9°21	0°50	27°52	29°53	9°22	2°12	28° 0	19°35	17°59	4°37	n.a.	S 18
M19	21 37 10	22°20'23	7♍28	18°17	10°29	1°26	27°50	29°54	9°20	2°11	28° 0	19°31	17°56	4°44	n.a.	M19
T 20	21 41 7	23°19'04	21°50	19°24	11°38	2° 3	27°49	29°55	9°18	2° 9	27°59	19°26	17°53	4°51	n.a.	T 20
W21	21 45 3	24°17'47	6♎18	20°29	12°46	2°40	27°47	29°56	9°17	2° 8	27°59	19°21	17°50	4°57	n.a.	W21
T 22	21 49 0	25°16'31	20°48	21°32	13°55	3°16	27°46	29°58	9°16	2° 7	27°59	19°16	17°46	5° 4	n.a.	T 22
F 23	21 52 56	26°15'18	5♏13	22°32	15° 4	3°53	27°45	29°59	9°14	2° 6	27°58	19°13	17°43	5°11	n.a.	F 23
S 24	21 56 53	27°14'06	19°30	23°30	16°13	4°29	27°44	0♐ 1	9°13	2° 4	27°58	19°11	17°40	5°18	n.a.	S 24
S 25	22 0 49	28°12'56	3♐37	24°25	17°22	5° 6	27°44	0° 2	9°11	2° 3	27°57	19°D11	17°37	5°24	n.a.	S 25
M26	22 4 46	29°11'48	17°31	25°17	18°32	5°42	27°43	0° 4	9°10	2° 2	27°57	19°12	17°34	5°31	n.a.	M26
T 27	22 8 43	0♑10'42	1♑14	26° 5	19°41	6°18	27°43	0° 6	9° 9	2° 0	27°56	19°13	17°30	5°38	n.a.	T 27
W28	22 12 39	1° 9'37	14°44	26°51	20°51	6°54	27°D43	0° 8	9° 8	1°59	27°56	19°R14	17°27	5°45	n.a.	W28
T 29	22 16 36	2° 8'35	28° 2	27°32	22° 0	7°30	27°43	0°10	9° 7	1°57	27°55	19°14	17°24	5°51	n.a.	T 29
F 30	22 20 32	3° 7'34	11♒ 8	28° 9	23°10	8° 6	27°44	0°12	9° 6	1°56	27°55	19°12	17°21	5°58	n.a.	F 30
S 31	22 24 29	4♍ 6'35	24♒ 3	28♍42	24♋20	8♋42	27♐44	0♐14	9♑ 4	1♈55	27♈54	19♋ 8	17♋18	6♉ 5	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	19n16	22s17	0n 7	14n20	0n34	21n 7	2s15	23n49	0n29	24s11	0s29	19s 1	1n21	23s50	0s30	0s45	1s54	2s30	14s20	22n13	22n22	7n52			n.a.
F 2	19 2	21 1	1s 7	13 42	0 27	21 15	2 11	23 53	0 29	24 11	0 29	19 1	1 21	23 50	0 30	0 45	1 54	2 30	14 21	22 13	22 22	7 54			n.a.
S 3	18 47	18 35	2 16	13 3	0 19	21 23	2 8	23 56	0 30	24 11	0 29	19 1	1 21	23 50	0 30	0 46	1 54	2 30	14 21	22 14	22 22	7 57			n.a.
S 4	18 32	15 16	3 16	12 24	0 12	21 30	2 4	23 59	0 31	24 11	0 29	19 1	1 21	23 50	0 30	0 46	1 54	2 30	14 21	22 14	22 23	7 59			n.a.
M 5	18 17	11 19	4 6	11 45	0 4	21 37	2 0	24 2	0 32	24 11	0 29	19 2	1 20	23 50	0 30	0 47	1 54	2 31	14 21	22 14	22 23	8 1			n.a.
T 6	18 2	6 57	4 42	11 6	0s 4	21 43	1 56	24 5	0 32	24 11	0 29	19 2	1 20	23 50	0 30	0 47	1 54	2 31	14 22	22 15	22 24	8 4			n.a.
W 7	17 46	2 24	5 5	10 27	0 12	21 49	1 52	24 7	0 33	24 11	0 29	19 2	1 20	23 51	0 30	0 47	1 55	2 31	14 22	22 15	22 24	8 6			n.a.
T 8	17 29	2n11	5 14	9 49	0 20	21 54	1 48	24 10	0 34	24 11	0 29	19 2	1 20	23 51	0 30	0 48	1 55	2 32	14 22	22 15	22 25	8 9			n.a.
F 9	17 13	6 38	5 10	9 10	0 28	21 59	1 44	24 12	0 35	24 11	0 29	19 2	1 20	23 51	0 30	0 48	1 55	2 32	14 22	22 16	22 25	8 11			n.a.
S 10	16 56	10 49	4 52	8 31	0 36	22 3	1 39	24 14	0 36	24 11	0 30	19 3	1 19	23 51	0 30	0 49	1 55	2 32	14 23	22 16	22 26	8 14			n.a.
S 11	16 39	14 37	4 21	7 52	0 45	22 7	1 35	24 16	0 36	24 11	0 30	19 3	1 19	23 51	0 30	0 49	1 55	2 33	14 23	22 16	22 26	8 16			n.a.
M12	16 22	17 51	3 39	7 14	0 53	22 10	1 31	24 18	0 37	24 11	0 30	19 3	1 19	23 51	0 30	0 50	1 55	2 33	14 23	22 16	22 26	8 19			n.a.
T 13	16 4	20 21	2 47	6 36	1 2	22 12	1 27	24 19	0 38	24 11	0 30	19 3	1 19	23 51	0 30	0 50	1 55	2 33	14 23	22 15	22 27	8 21			n.a.
W14	15 46	21 57	1 45	5 58	1 10	22 14	1 23	24 20	0 39	24 11	0 30	19 4	1 19	23 51	0 30	0 50	1 55	2 34	14 24	22 15	22 27	8 24			n.a.
T 15	15 28	22 28	0 37	5 21	1 19	22 15	1 19	24 22	0 39	24 11	0 30	19 4	1 18	23 52	0 30	0 51	1 55	2 34	14 24	22 15	22 28	8 26			n.a.
F 16	15 10	21 45	0n35	4 44	1 27	22 16	1 15	24 23	0 40	24 11	0 30	19 4	1 18	23 52	0 30	0 51	1 55	2 34	14 24	22 15	22 28	8 29			n.a.
S 17	14 51	19 47	1 46	4 8	1 36	22 16	1 11	24 23	0 41	24 11	0 30	19 5	1 18	23 52	0 30	0 52	1 55	2 35	14 24	22 15	22 29	8 31			n.a.
S 18	14 32	16 37	2 54	3 33	1 44	22 16	1 7	24 24	0 42	24 11	0 30	19 5	1 18	23 52	0 30	0 52	1 55	2 35	14 25	22 16	22 29	8 34			n.a.
M19	14 13	12 26	3 52	2 58	1 52	22 15	1 2	24 25	0 43	24 11	0 30	19 6	1 18	23 52	0 30	0 53	1 55	2 35	14 25	22 16	22 29	8 36			n.a.
T 20	13 54	7 29	4 36	2 24	2 1	22 13	0 58	24 25	0 43	24 11	0 30	19 6	1 17	23 52	0 30	0 53	1 55	2 36	14 25	22 17	22 30	8 39			n.a.
W21	13 34	2 6	5 3	1 50	2 9	22 11	0 54	24 25	0 44	24 11	0 30	19 6	1 17	23 52	0 30	0 54	1 55	2 36	14 25	22 18	22 30	8 41			n.a.
T 22	13 14	3s25	5 11	1 18	2 17	22 8	0 50	24 25	0 45	24 11	0 30	19 7	1 17	23 52	0 30	0 55	1 55	2 36	14 26	22 18	22 31	8 44			n.a.
F 23	12 54	8 43	4 59	0 47	2 25	22 5	0 46	24 25	0 46	24 12	0 30	19 7	1 17	23 52	0 30	0 55	1 55	2 37	14 26	22 19	22 31	8 46			n.a.
S 24	12 34	13 30	4 29	0 16	2 33	22 1	0 42	24 24	0 47	24 12	0 30	19 8	1 17	23 52	0 30	0 56	1 55	2 37	14 26	22 19	22 32	8 49			n.a.
S 25	12 14	17 28	3 42	0s13	2 41	21 56	0 38	24 24	0 47	24 12	0 30	19 9	1 16	23 52	0 29	0 56	1 55	2 38	14 26	22 19	22 32	8 51			n.a.
M26	11 53	20 24	2 44	0 40	2 48	21 51	0 34	24 23	0 48	24 12	0 30	19 9	1 16	23 53	0 29	0 57	1 55	2 38	14 27	22 19	22 32	8 54			n.a.
T 27	11 32	22 6	1 36	1 6	2 55	21 45	0 30	24 22	0 49	24 12	0 30	19 10	1 16	23 53	0 29	0 57	1 55	2 38	14 27	22 19	22 33	8 56			n.a.
W28	11 11	22 29	0 24	1 31	3 2	21 38	0 26	24 21	0 50	24 12	0 30	19 10	1 16	23 53	0 29	0 58	1 56	2 39	14 27	22 19	22 33	8 59			n.a.
T 29	10 50	21 34	0s47	1 53	3 8	21 31	0 22	24 20	0 51	24 12	0 31	19 11	1 16	23 53	0 29	0 59	1 56	2 39	14 27	22 19	22 34	9 1			n.a.
F 30	10 28	19 29	1 56	2 13	3 14	21 23	0 19	24 19	0 52	24 12	0 31	19 12	1 15	23 53	0 29	0 59	1 56	2 39	14 28	22 19	22 34	9 3			n.a.
S 31	10n 7	16s26	2s57	2s32	3s20	21n15	0s15	24n17	0n52	24s12	0s31	19s12	1n15	23s53	0s29	1s 0	1s56	2s40	14s28	22n20	22n34	9n 6			n.a.

Julian Day Number = 1683649.5, Delta T = 03h14m09s
Ecliptic obliquity = 23°42'24, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'36, Lahiri = - 5°22'35 Julian Calendar 1 Aug. 104 BCE == Greg. Calendar 29 July 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

SEPTEMBER 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	22 28 25	5♍ 5'39	6♓45	29♍10	25♋31	9♋18	27♐45	0♐17	9°R 3	1°R53	27°R53	19°R 1	17♋15	6♉11	n.a.	S 1
M 2	22 32 22	6° 4'44	19°16	29°33	26°41	9°54	27°46	0°19	9♑ 2	1♈52	27♈53	18♋53	17°11	6°18	n.a.	M 2
T 3	22 36 18	7° 3'52	1♈35	29°49	27°51	10°29	27°47	0°21	9° 2	1°50	27°52	18°44	17° 8	6°25	n.a.	T 3
W 4	22 40 15	8° 3'02	13°44	0♎ 0	29° 2	11° 5	27°48	0°24	9° 1	1°49	27°51	18°35	17° 5	6°32	n.a.	W 4
T 5	22 44 11	9° 2'14	25°44	0°R 4	0♏13	11°40	27°50	0°27	9° 0	1°47	27°51	18°26	17° 2	6°38	n.a.	T 5
F 6	22 48 8	10° 1'29	7♉38	0° 2	1°23	12°16	27°52	0°29	8°59	1°46	27°50	18°20	16°59	6°45	n.a.	F 6
S 7	22 52 5	11° 0'46	19°28	29♍52	2°34	12°51	27°54	0°32	8°58	1°44	27°49	18°15	16°56	6°52	n.a.	S 7
S 8	22 56 1	12° 0'05	1♊20	29°34	3°45	13°27	27°56	0°35	8°58	1°43	27°49	18°12	16°52	6°58	n.a.	S 8
M 9	22 59 58	12°59'27	13°19	29° 8	4°57	14° 2	27°58	0°38	8°57	1°41	27°48	18°D11	16°49	7° 5	n.a.	M 9
T 10	23 3 54	13°58'51	25°28	28°33	6° 8	14°37	28° 1	0°41	8°56	1°39	27°47	18°12	16°46	7°12	n.a.	T 10
W11	23 7 51	14°58'18	7♋54	27°51	7°19	15°12	28° 3	0°45	8°56	1°38	27°46	18°13	16°43	7°19	n.a.	W11
T 12	23 11 47	15°57'47	20°41	27° 1	8°31	15°47	28° 6	0°48	8°55	1°36	27°46	18°R13	16°40	7°25	n.a.	T 12
F 13	23 15 44	16°57'19	3♌53	26° 4	9°43	16°22	28° 9	0°51	8°55	1°35	27°45	18°12	16°36	7°32	n.a.	F 13
S 14	23 19 40	17°56'52	17°33	25° 1	10°54	16°56	28°13	0°55	8°55	1°33	27°44	18° 9	16°33	7°39	n.a.	S 14
S 15	23 23 37	18°56'29	1♍38	23°53	12° 6	17°31	28°16	0°58	8°54	1°31	27°43	18° 3	16°30	7°45	n.a.	S 15
M16	23 27 34	19°56'07	16° 8	22°41	13°18	18° 6	28°20	1° 2	8°54	1°30	27°42	17°55	16°27	7°52	n.a.	M16
T 17	23 31 30	20°55'47	0♎55	21°27	14°30	18°40	28°24	1° 6	8°54	1°28	27°41	17°45	16°24	7°59	n.a.	T 17
W18	23 35 27	21°55'29	15°50	20°14	15°42	19°15	28°28	1° 9	8°53	1°26	27°40	17°35	16°21	8° 6	n.a.	W18
T 19	23 39 23	22°55'14	0♏46	19° 4	16°55	19°49	28°32	1°13	8°53	1°25	27°40	17°26	16°17	8°12	n.a.	T 19
F 20	23 43 20	23°55'00	15°33	17°58	18° 7	20°23	28°36	1°17	8°53	1°23	27°39	17°18	16°14	8°19	n.a.	F 20
S 21	23 47 16	24°54'48	0♐ 4	16°59	19°19	20°57	28°41	1°21	8°D53	1°21	27°38	17°14	16°11	8°26	n.a.	S 21
S 22	23 51 13	25°54'38	14°17	16° 8	20°32	21°31	28°46	1°25	8°53	1°20	27°37	17°11	16° 8	8°32	n.a.	S 22
M23	23 55 9	26°54'30	28° 9	15°27	21°44	22° 5	28°51	1°29	8°53	1°18	27°36	17°D11	16° 5	8°39	n.a.	M23
T 24	23 59 6	27°54'23	11♑41	14°57	22°57	22°39	28°56	1°34	8°53	1°16	27°35	17°R11	16° 1	8°46	n.a.	T 24
W25	0 3 3	28°54'19	24°56	14°37	24°10	23°12	29° 1	1°38	8°53	1°15	27°34	17°11	15°58	8°53	n.a.	W25
T 26	0 6 59	29°54'16	7♒56	14°D30	25°23	23°46	29° 6	1°42	8°54	1°13	27°33	17° 9	15°55	8°59	n.a.	T 26
F 27	0 10 56	0♎54'14	20°43	14°33	26°36	24°19	29°12	1°47	8°54	1°11	27°32	17° 5	15°52	9° 6	n.a.	F 27
S 28	0 14 52	1°54'15	3♓18	14°47	27°49	24°53	29°18	1°52	8°54	1°10	27°31	16°58	15°49	9°13	n.a.	S 28
S 29	0 18 49	2°54'17	15°44	15°12	29° 2	25°26	29°24	1°56	8°55	1° 8	27°30	16°48	15°46	9°19	n.a.	S 29
M30	0 22 45	3♎54'21	28♓ 1	15♍46	0♍15	25♋59	29♐30	2♐ 1	8♑55	1♈ 6	27♈29	16♋35	15♋42	9♉26	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	9n45	12s39	3s48	2s47	3s25	21n 6	0s11	24n16	0n53	24s12	0s31	19s13	1n15	23s53	0s29	1s 0	1s56	2s40	14s28	22n20	22n35	9n 8		n.a.
M 2	9 23	8 23	4 27	3 0	3 29	20 56	0 7	24 14	0 54	24 12	0 31	19 14	1 15	23 53	0 29	1 1	1 56	2 41	14 28	22 22	22 35	9 11		n.a.
T 3	9 1	3 50	4 53	3 10	3 32	20 46	0 3	24 12	0 55	24 12	0 31	19 14	1 15	23 53	0 29	1 2	1 56	2 41	14 28	22 23	22 36	9 13		n.a.
W 4	8 39	0n48	5 5	3 17	3 35	20 35	0n 0	24 10	0 56	24 12	0 31	19 15	1 14	23 53	0 29	1 2	1 56	2 42	14 29	22 24	22 36	9 16		n.a.
T 5	8 16	5 20	5 4	3 20	3 36	20 24	0 4	24 8	0 57	24 12	0 31	19 16	1 14	23 53	0 29	1 3	1 56	2 42	14 29	22 25	22 36	9 18		n.a.
F 6	7 54	9 39	4 49	3 19	3 37	20 12	0 7	24 5	0 58	24 12	0 31	19 17	1 14	23 53	0 29	1 4	1 56	2 42	14 29	22 26	22 37	9 21		n.a.
S 7	7 31	13 35	4 22	3 15	3 36	19 59	0 11	24 3	0 58	24 12	0 31	19 17	1 14	23 53	0 29	1 4	1 56	2 43	14 29	22 27	22 37	9 23		n.a.
S 8	7 8	17 0	3 44	3 5	3 34	19 46	0 14	24 0	0 59	24 12	0 31	19 18	1 14	23 53	0 29	1 5	1 56	2 43	14 29	22 27	22 38	9 26		n.a.
M 9	6 45	19 45	2 56	2 52	3 30	19 32	0 18	23 57	1 0	24 12	0 31	19 19	1 13	23 53	0 29	1 6	1 56	2 44	14 30	22 27	22 38	9 28		n.a.
T 10	6 22	21 39	1 59	2 33	3 25	19 18	0 21	23 54	1 1	24 12	0 31	19 20	1 13	23 53	0 29	1 6	1 56	2 44	14 30	22 27	22 39	9 31		n.a.
W11	5 59	22 33	0 55	2 10	3 18	19 3	0 25	23 51	1 2	24 13	0 31	19 21	1 13	23 53	0 29	1 7	1 56	2 45	14 30	22 27	22 39	9 33		n.a.
T 12	5 36	22 19	0n13	1 41	3 9	18 47	0 28	23 48	1 3	24 13	0 31	19 21	1 13	23 53	0 29	1 8	1 56	2 45	14 30	22 27	22 39	9 36		n.a.
F 13	5 12	20 50	1 23	1 8	2 58	18 31	0 31	23 45	1 4	24 13	0 31	19 22	1 13	23 53	0 29	1 8	1 56	2 45	14 30	22 27	22 40	9 38		n.a.
S 14	4 49	18 7	2 30	0 31	2 45	18 14	0 34	23 41	1 5	24 13	0 31	19 23	1 13	23 53	0 29	1 9	1 56	2 46	14 30	22 28	22 40	9 40		n.a.
S 15	4 25	14 16	3 30	0n10	2 30	17 57	0 37	23 38	1 5	24 13	0 31	19 24	1 12	23 53	0 29	1 10	1 56	2 46	14 31	22 29	22 40	9 43		n.a.
M16	4 2	9 29	4 18	0 54	2 14	17 40	0 40	23 34	1 6	24 13	0 31	19 25	1 12	23 53	0 29	1 10	1 56	2 47	14 31	22 30	22 41	9 45		n.a.
T 17	3 38	4 4	4 50	1 39	1 56	17 21	0 43	23 30	1 7	24 13	0 31	19 26	1 12	23 53	0 29	1 11	1 56	2 47	14 31	22 31	22 41	9 48		n.a.
W18	3 14	1s39	5 3	2 26	1 36	17 3	0 46	23 26	1 8	24 13	0 31	19 27	1 12	23 53	0 29	1 12	1 56	2 48	14 31	22 32	22 42	9 50		n.a.
T 19	2 50	7 16	4 55	3 12	1 16	16 43	0 49	23 22	1 9	24 13	0 31	19 28	1 12	23 53	0 29	1 12	1 56	2 48	14 31	22 33	22 42	9 53		n.a.
F 20	2 27	12 25	4 27	3 57	0 56	16 24	0 52	23 18	1 10	24 13	0 31	19 29	1 11	23 53	0 29	1 13	1 56	2 49	14 31	22 34	22 42	9 55		n.a.
S 21	2 3	16 46	3 43	4 39	0 35	16 3	0 55	23 13	1 11	24 13	0 31	19 30	1 11	23 53	0 29	1 14	1 56	2 49	14 32	22 35	22 43	9 58		n.a.
S 22	1 39	20 2	2 45	5 18	0 15	15 43	0 57	23 9	1 12	24 13	0 31	19 31	1 11	23 53	0 29	1 14	1 56	2 49	14 32	22 35	22 43	10 0		n.a.
M23	1 15	22 2	1 39	5 52	0n 4	15 22	1 0	23 4	1 13	24 13	0 31	19 32	1 11	23 53	0 29	1 15	1 56	2 50	14 32	22 35	22 44	10 3		n.a.
T 24	0 50	22 42	0 29	6 21	0 23	15 0	1 2	23 0	1 14	24 13	0 31	19 33	1 11	23 53	0 29	1 16	1 56	2 50	14 32	22 35	22 44	10 5		n.a.
W25	0 26	22 3	0s41	6 44	0 40	14 38	1 5	22 55	1 15	24 14	0 31	19 34	1 11	23 53	0 29	1 16	1 56	2 51	14 32	22 35	22 44	10 7		n.a.
T 26	0 2	20 13	1 48	7 1	0 56	14 16	1 7	22 50	1 16	24 14	0 31	19 35	1 10	23 53	0 29	1 17	1 56	2 51	14 32	22 36	22 45	10 10		n.a.
F 27	0s22	17 24	2 48	7 13	1 10	13 53	1 10	22 45	1 17	24 14	0 31	19 36	1 10	23 53	0 29	1 18	1 56	2 52	14 32	22 36	22 45	10 12		n.a.
S 28	0 46	13 47	3 38	7 19	1 22	13 29	1 12	22 40	1 18	24 14	0 31	19 37	1 10	23 53	0 29	1 18	1 56	2 52	14 32	22 37	22 46	10 15		n.a.
S 29	1 10	9 38	4 18	7 19	1 33	13 6	1 14	22 35	1 18	24 14	0 31	19 38	1 10	23 53	0 29	1 19	1 56	2 53	14 32	22 38	22 46	10 17		n.a.
M30	1s34	5s 8	4s45	7n15	1n42	12n42	1n16	22n29	1n19	24s14	0s31	19s39	1n10	23s53	0s29	1s20	1s56	2s53	14s33	22n40	22n46	10n20		n.a.

Julian Day Number = 1683680.5, Delta T = 03h14m08s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'31, Lahiri = - 5°22'31 Julian Calendar 1 Sept. 104 BCE == Greg. Calendar 29 Aug. 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

OCTOBER 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 26 42	4♎54'27	10♈10	16♍29	1♍28	26♋32	29♐36	2♐ 6	8♑56	1°R 5	27°R28	16°R21	15♋39	9♉33	n.a.	T 1
W 2	0 30 38	5°54'35	22°12	17°20	2°42	27° 5	29°43	2°10	8°56	1♈ 3	27♈27	16♋ 7	15°36	9°39	n.a.	W 2
T 3	0 34 35	6°54'45	4♉ 8	18°18	3°55	27°38	29°49	2°15	8°57	1° 1	27°26	15°53	15°33	9°46	n.a.	T 3
F 4	0 38 31	7°54'57	15°59	19°21	5° 8	28°10	29°56	2°20	8°57	0°59	27°25	15°42	15°30	9°53	n.a.	F 4
S 5	0 42 28	8°55'12	27°49	20°31	6°22	28°43	0♑ 3	2°25	8°58	0°58	27°24	15°33	15°27	10° 0	n.a.	S 5
S 6	0 46 25	9°55'28	9♊39	21°44	7°36	29°15	0°10	2°30	8°59	0°56	27°23	15°27	15°23	10° 6	n.a.	S 6
M 7	0 50 21	10°55'46	21°35	23° 2	8°49	29°48	0°17	2°36	8°59	0°54	27°22	15°24	15°20	10°13	n.a.	M 7
T 8	0 54 18	11°56'07	3♋41	24°24	10° 3	0♌20	0°24	2°41	9° 0	0°53	27°20	15°23	15°17	10°20	n.a.	T 8
W 9	0 58 14	12°56'30	16° 3	25°48	11°17	0°52	0°32	2°46	9° 1	0°51	27°19	15°23	15°14	10°26	n.a.	W 9
T 10	1 2 11	13°56'54	28°45	27°14	12°31	1°24	0°40	2°51	9° 2	0°50	27°18	15°23	15°11	10°33	n.a.	T 10
F 11	1 6 7	14°57'21	11♌52	28°42	13°45	1°56	0°48	2°57	9° 3	0°48	27°17	15°21	15° 7	10°40	n.a.	F 11
S 12	1 10 4	15°57'50	25°28	0♎12	14°59	2°27	0°55	3° 2	9° 4	0°46	27°16	15°17	15° 4	10°47	n.a.	S 12
S 13	1 14 0	16°58'20	9♍35	1°44	16°13	2°59	1° 4	3° 8	9° 5	0°45	27°15	15°10	15° 1	10°53	n.a.	S 13
M14	1 17 57	17°58'53	24°10	3°16	17°27	3°30	1°12	3°14	9° 6	0°43	27°14	15° 1	14°58	11° 0	n.a.	M14
T 15	1 21 54	18°59'27	9♎ 9	4°49	18°41	4° 1	1°20	3°19	9° 7	0°42	27°13	14°49	14°55	11° 7	n.a.	T 15
W16	1 25 50	20° 0'03	24°21	6°23	19°55	4°32	1°29	3°25	9° 9	0°40	27°12	14°38	14°52	11°13	n.a.	W16
T 17	1 29 47	21° 0'41	9♏38	7°58	21°10	5° 3	1°37	3°31	9°10	0°38	27°10	14°27	14°48	11°20	n.a.	T 17
F 18	1 33 43	22° 1'20	24°46	9°32	22°24	5°34	1°46	3°36	9°11	0°37	27° 9	14°18	14°45	11°27	n.a.	F 18
S 19	1 37 40	23° 2'00	9♐37	11° 7	23°38	6° 5	1°55	3°42	9°13	0°35	27° 8	14°11	14°42	11°34	n.a.	S 19
S 20	1 41 36	24° 2'42	24° 5	12°43	24°53	6°35	2° 4	3°48	9°14	0°34	27° 7	14° 8	14°39	11°40	n.a.	S 20
M21	1 45 33	25° 3'26	8♑ 6	14°18	26° 7	7° 5	2°14	3°54	9°16	0°32	27° 6	14° 7	14°36	11°47	n.a.	M21
T 22	1 49 29	26° 4'10	21°42	15°53	27°22	7°35	2°23	4° 0	9°17	0°31	27° 5	14° 7	14°33	11°54	n.a.	T 22
W23	1 53 26	27° 4'56	4♒54	17°29	28°36	8° 5	2°32	4° 6	9°19	0°29	27° 4	14° 7	14°29	12° 0	n.a.	W23
T 24	1 57 23	28° 5'42	17°47	19° 4	29°51	8°35	2°42	4°12	9°20	0°28	27° 3	14° 5	14°26	12° 7	n.a.	T 24
F 25	2 1 19	29° 6'30	0♓22	20°39	1♎ 5	9° 5	2°52	4°19	9°22	0°26	27° 1	14° 1	14°23	12°14	n.a.	F 25
S 26	2 5 16	0♏ 7'19	12°45	22°15	2°20	9°34	3° 2	4°25	9°24	0°25	27° 0	13°54	14°20	12°21	n.a.	S 26
S 27	2 9 12	1° 8'09	24°58	23°50	3°35	10° 3	3°12	4°31	9°25	0°24	26°59	13°45	14°17	12°27	n.a.	S 27
M28	2 13 9	2° 9'00	7♈ 4	25°25	4°49	10°32	3°22	4°37	9°27	0°22	26°58	13°33	14°13	12°34	n.a.	M28
T 29	2 17 5	3° 9'52	19° 4	27° 0	6° 4	11° 1	3°32	4°44	9°29	0°21	26°57	13°19	14°10	12°41	n.a.	T 29
W30	2 21 2	4°10'45	0♉59	28°35	7°19	11°30	3°42	4°50	9°31	0°19	26°56	13° 5	14° 7	12°47	n.a.	W30
T 31	2 24 58	5♏11'40	12♉52	0♏ 9	8♎34	11♌59	3♑53	4♐56	9♑33	0♈18	26♈55	12♋53	14♋ 4	12♉54	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	1s58	0s29	4s58	7n 5	1n50	12n17	1n18	22n24	1n20	24s14	0s31	19s40	1n10	23s53	0s29	1s20	1s56	2s54	14s33	22n42	22n47	10n22		n.a.
W 2	2 22	4n 8	4 58	6 51	1 56	11 52	1 20	22 18	1 21	24 14	0 32	19 42	1 10	23 53	0 29	1 21	1 56	2 54	14 33	22 43	22 47	10 25		n.a.
T 3	2 46	8 34	4 45	6 32	2 1	11 27	1 22	22 13	1 22	24 14	0 32	19 43	1 9	23 53	0 29	1 22	1 56	2 54	14 33	22 45	22 47	10 27		n.a.
F 4	3 10	12 40	4 20	6 10	2 5	11 1	1 24	22 7	1 23	24 14	0 32	19 44	1 9	23 53	0 29	1 22	1 56	2 55	14 33	22 46	22 48	10 30		n.a.
S 5	3 34	16 16	3 43	5 45	2 8	10 36	1 25	22 1	1 24	24 14	0 32	19 45	1 9	23 53	0 29	1 23	1 56	2 55	14 33	22 47	22 48	10 32		n.a.
S 6	3 58	19 14	2 57	5 17	2 9	10 9	1 27	21 56	1 25	24 14	0 32	19 46	1 9	23 53	0 29	1 24	1 56	2 56	14 33	22 48	22 48	10 34		n.a.
M 7	4 22	21 24	2 2	4 46	2 10	9 43	1 28	21 50	1 26	24 14	0 32	19 47	1 9	23 53	0 29	1 24	1 56	2 56	14 33	22 48	22 49	10 37		n.a.
T 8	4 46	22 38	1 1	4 13	2 9	9 16	1 30	21 44	1 27	24 14	0 32	19 49	1 9	23 53	0 29	1 25	1 56	2 57	14 33	22 49	22 49	10 39		n.a.
W 9	5 10	22 47	0n 4	3 39	2 8	8 49	1 31	21 38	1 29	24 14	0 32	19 50	1 8	23 52	0 29	1 26	1 56	2 57	14 33	22 49	22 50	10 42		n.a.
T 10	5 34	21 47	1 10	3 2	2 6	8 22	1 32	21 32	1 30	24 14	0 32	19 51	1 8	23 52	0 29	1 26	1 56	2 57	14 33	22 49	22 50	10 44		n.a.
F 11	5 57	19 35	2 15	2 24	2 4	7 54	1 34	21 25	1 31	24 14	0 32	19 52	1 8	23 52	0 29	1 27	1 56	2 58	14 33	22 49	22 50	10 47		n.a.
S 12	6 21	16 13	3 15	1 45	2 0	7 26	1 35	21 19	1 32	24 14	0 32	19 53	1 8	23 52	0 29	1 28	1 56	2 58	14 33	22 49	22 51	10 49		n.a.
S 13	6 44	11 50	4 5	1 5	1 57	6 58	1 36	21 13	1 33	24 14	0 32	19 54	1 8	23 52	0 29	1 28	1 56	2 59	14 33	22 50	22 51	10 52		n.a.
M14	7 8	6 38	4 41	0 25	1 53	6 30	1 37	21 6	1 34	24 14	0 32	19 56	1 8	23 52	0 29	1 29	1 56	2 59	14 33	22 51	22 51	10 54		n.a.
T 15	7 31	0 54	4 59	0s17	1 48	6 1	1 38	21 0	1 35	24 14	0 32	19 57	1 8	23 52	0 29	1 30	1 56	2 59	14 33	22 52	22 52	10 56		n.a.
W16	7 54	4s58	4 56	0 59	1 43	5 32	1 38	20 54	1 36	24 14	0 32	19 58	1 7	23 52	0 29	1 30	1 56	3 0	14 33	22 54	22 52	10 59		n.a.
T 17	8 17	10 34	4 32	1 41	1 38	5 3	1 39	20 47	1 37	24 14	0 32	19 59	1 7	23 52	0 29	1 31	1 56	3 0	14 33	22 55	22 52	11 1		n.a.
F 18	8 40	15 28	3 49	2 24	1 33	4 34	1 40	20 40	1 38	24 14	0 32	20 1	1 7	23 52	0 29	1 31	1 56	3 1	14 33	22 56	22 53	11 4		n.a.
S 19	9 3	19 19	2 51	3 7	1 27	4 5	1 40	20 34	1 39	24 13	0 32	20 2	1 7	23 51	0 29	1 32	1 56	3 1	14 33	22 57	22 53	11 6		n.a.
S 20	9 26	21 51	1 44	3 50	1 21	3 36	1 41	20 27	1 40	24 13	0 32	20 3	1 7	23 51	0 29	1 33	1 56	3 1	14 33	22 57	22 54	11 9		n.a.
M21	9 48	22 56	0 32	4 33	1 15	3 6	1 41	20 20	1 42	24 13	0 32	20 4	1 7	23 51	0 29	1 33	1 56	3 2	14 33	22 57	22 54	11 11		n.a.
T 22	10 11	22 36	0s40	5 15	1 9	2 36	1 41	20 14	1 43	24 13	0 32	20 6	1 7	23 51	0 29	1 34	1 56	3 2	14 33	22 57	22 54	11 13		n.a.
W23	10 33	21 0	1 48	5 58	1 3	2 7	1 42	20 7	1 44	24 13	0 32	20 7	1 7	23 51	0 29	1 34	1 56	3 3	14 33	22 57	22 55	11 16		n.a.
T 24	10 55	18 20	2 48	6 41	0 56	1 37	1 42	20 0	1 45	24 13	0 32	20 8	1 6	23 51	0 28	1 35	1 56	3 3	14 33	22 57	22 55	11 18		n.a.
F 25	11 17	14 52	3 39	7 23	0 50	1 7	1 42	19 53	1 46	24 13	0 32	20 9	1 6	23 51	0 28	1 35	1 56	3 3	14 33	22 58	22 55	11 21		n.a.
S 26	11 38	10 49	4 18	8 5	0 43	0 37	1 42	19 47	1 47	24 12	0 32	20 11	1 6	23 51	0 28	1 36	1 56	3 4	14 33	22 58	22 56	11 23		n.a.
S 27	12 0	6 22	4 45	8 47	0 37	0 7	1 42	19 40	1 48	24 12	0 32	20 12	1 6	23 50	0 28	1 36	1 56	3 4	14 33	22 59	22 56	11 26		n.a.
M28	12 21	1 44	4 59	9 28	0 30	0s23	1 41	19 33	1 50	24 12	0 32	20 13	1 6	23 50	0 28	1 37	1 56	3 4	14 33	23 1	22 56	11 28		n.a.
T 29	12 42	2n56	5 0	10 9	0 23	0 53	1 41	19 26	1 51	24 12	0 32	20 15	1 6	23 50	0 28	1 38	1 56	3 5	14 33	23 2	22 57	11 30		n.a.
W30	13 3	7 28	4 47	10 50	0 17	1 24	1 41	19 19	1 52	24 11	0 32	20 16	1 6	23 50	0 28	1 38	1 56	3 5	14 33	23 3	22 57	11 33		n.a.
T 31	13s24	11n43	4s22	11s30	0n10	1s54	1n40	19n12	1n53	24s11	0s32	20s17	1n 6	23s50	0s28	1s39	1s56	3s 5	14s33	23n 5	22n57	11n35		n.a.

Julian Day Number = 1683710.5, Delta T = 03h14m07s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'27, Lahiri = - 5°22'27 Julian Calendar 1 Oct. 104 BCE == Greg. Calendar 28 Sept. 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

NOVEMBER 104 BCE (-103) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	2 28 55	6♏12'36	24♉42	1♏44	9♎48	12♌27	4♑ 3	5♐ 3	9♑35	0°R17	26°R54	12°R41	14♋ 1	13♉ 1	n.a.	F 1
S 2	2 32 52	7°13'33	6♊33	3°19	11° 3	12°55	4°14	5° 9	9°37	0♈16	26♈52	12♋33	13°58	13° 7	n.a.	S 2
S 3	2 36 48	8°14'31	18°26	4°53	12°18	13°23	4°24	5°16	9°39	0°14	26°51	12°27	13°54	13°14	n.a.	S 3
M 4	2 40 45	9°15'31	0♋25	6°28	13°33	13°50	4°35	5°22	9°41	0°13	26°50	12°24	13°51	13°21	n.a.	M 4
T 5	2 44 41	10°16'32	12°32	8° 2	14°48	14°18	4°46	5°29	9°43	0°12	26°49	12°D23	13°48	13°28	n.a.	T 5
W 6	2 48 38	11°17'34	24°52	9°36	16° 3	14°45	4°57	5°35	9°45	0°11	26°48	12°24	13°45	13°34	n.a.	W 6
T 7	2 52 34	12°18'38	7♌30	11°11	17°18	15°12	5° 8	5°42	9°47	0° 9	26°47	12°R25	13°42	13°41	n.a.	T 7
F 8	2 56 31	13°19'42	20°30	12°45	18°33	15°39	5°20	5°49	9°50	0° 8	26°46	12°24	13°38	13°48	n.a.	F 8
S 9	3 0 27	14°20'48	3♍58	14°19	19°48	16° 6	5°31	5°55	9°52	0° 7	26°45	12°23	13°35	13°54	n.a.	S 9
S 10	3 4 24	15°21'55	17°54	15°54	21° 3	16°32	5°42	6° 2	9°54	0° 6	26°44	12°18	13°32	14° 1	n.a.	S 10
M11	3 8 21	16°23'03	2♎19	17°28	22°18	16°58	5°54	6° 9	9°57	0° 5	26°43	12°12	13°29	14° 8	n.a.	M11
T 12	3 12 17	17°24'12	17°10	19° 3	23°33	17°24	6° 6	6°16	9°59	0° 4	26°42	12° 4	13°26	14°14	n.a.	T 12
W13	3 16 14	18°25'22	2♏20	20°37	24°48	17°50	6°17	6°23	10° 2	0° 3	26°40	11°55	13°23	14°21	n.a.	W13
T 14	3 20 10	19°26'33	17°40	22°12	26° 4	18°15	6°29	6°29	10° 4	0° 2	26°39	11°47	13°19	14°28	n.a.	T 14
F 15	3 24 7	20°27'45	2♐57	23°47	27°19	18°40	6°41	6°36	10° 7	0° 1	26°38	11°40	13°16	14°35	n.a.	F 15
S 16	3 28 3	21°28'57	18° 1	25°21	28°34	19° 5	6°53	6°43	10° 9	0° 0	26°37	11°35	13°13	14°41	n.a.	S 16
S 17	3 32 0	22°30'10	2♑44	26°56	29°49	19°29	7° 5	6°50	10°12	29♓59	26°36	11°33	13°10	14°48	n.a.	S 17
M18	3 35 56	23°31'23	17° 0	28°31	1♏ 4	19°53	7°17	6°57	10°15	29°58	26°35	11°D33	13° 7	14°55	n.a.	M18
T 19	3 39 53	24°32'36	0♒47	0♐ 7	2°20	20°17	7°30	7° 4	10°17	29°58	26°34	11°34	13° 4	15° 1	n.a.	T 19
W20	3 43 50	25°33'50	14° 7	1°42	3°35	20°41	7°42	7°11	10°20	29°57	26°33	11°35	13° 0	15° 8	n.a.	W20
T 21	3 47 46	26°35'03	27° 3	3°18	4°50	21° 4	7°54	7°18	10°23	29°56	26°32	11°R36	12°57	15°15	n.a.	T 21
F 22	3 51 43	27°36'17	9♓38	4°53	6° 5	21°27	8° 7	7°25	10°25	29°55	26°31	11°35	12°54	15°22	n.a.	F 22
S 23	3 55 39	28°37'31	21°57	6°29	7°20	21°50	8°19	7°32	10°28	29°55	26°31	11°32	12°51	15°28	n.a.	S 23
S 24	3 59 36	29°38'44	4♈ 4	8° 5	8°36	22°12	8°32	7°39	10°31	29°54	26°30	11°27	12°48	15°35	n.a.	S 24
M25	4 3 32	0♐39'58	16° 3	9°41	9°51	22°34	8°45	7°46	10°34	29°53	26°29	11°21	12°44	15°42	n.a.	M25
T 26	4 7 29	1°41'12	27°57	11°17	11° 6	22°56	8°57	7°53	10°37	29°53	26°28	11°13	12°41	15°48	n.a.	T 26
W27	4 11 25	2°42'26	9♉48	12°54	12°21	23°18	9°10	8° 0	10°40	29°52	26°27	11° 5	12°38	15°55	n.a.	W27
T 28	4 15 22	3°43'40	21°40	14°30	13°37	23°39	9°23	8° 7	10°43	29°52	26°26	10°58	12°35	16° 2	n.a.	T 28
F 29	4 19 19	4°44'55	3♊32	16° 6	14°52	23°59	9°36	8°14	10°46	29°51	26°25	10°52	12°32	16° 8	n.a.	F 29
S 30	4 23 15	5♐46'09	15♊28	17♐42	16♏ 7	24♌20	9♑49	8♐21	10♑49	29♓51	26♈24	10♋47	12♋29	16♉15	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	13 s44	15n31	3 s45	12 s 9	0n 3	2 s24	1n40	19n 5	1n55	24 s11	0 s32	20 s18	1n 5	23 s50	0 s28	1 s39	1 s56	3 s 6	14 s33	23n 6	22n58	11n38		n.a.
S 2	14 5	18 43	2 59	12 49	0 s 3	2 54	1 39	18 58	1 56	24 11	0 32	20 20	1 5	23 50	0 28	1 40	1 55	3 6	14 33	23 6	22 58	11 40		n.a.
S 3	14 25	21 8	2 4	13 27	0 10	3 24	1 39	18 51	1 57	24 10	0 32	20 21	1 5	23 49	0 28	1 40	1 55	3 6	14 33	23 7	22 58	11 42		n.a.
M 4	14 44	22 39	1 4	14 5	0 16	3 54	1 38	18 45	1 58	24 10	0 32	20 22	1 5	23 49	0 28	1 40	1 55	3 7	14 33	23 7	22 59	11 45		n.a.
T 5	15 4	23 7	0n 1	14 42	0 23	4 24	1 37	18 38	2 0	24 10	0 32	20 23	1 5	23 49	0 28	1 41	1 55	3 7	14 33	23 7	22 59	11 47		n.a.
W 6	15 23	22 29	1 6	15 19	0 29	4 54	1 37	18 31	2 1	24 9	0 32	20 25	1 5	23 49	0 28	1 41	1 55	3 7	14 32	23 7	22 59	11 50		n.a.
T 7	15 42	20 42	2 10	15 55	0 36	5 24	1 36	18 24	2 2	24 9	0 32	20 26	1 5	23 49	0 28	1 42	1 55	3 7	14 32	23 7	23 0	11 52		n.a.
F 8	16 1	17 48	3 9	16 30	0 42	5 54	1 35	18 17	2 3	24 8	0 32	20 27	1 5	23 48	0 28	1 42	1 55	3 8	14 32	23 7	23 0	11 54		n.a.
S 9	16 19	13 53	4 0	17 5	0 48	6 23	1 34	18 10	2 5	24 8	0 33	20 29	1 5	23 48	0 28	1 43	1 55	3 8	14 32	23 7	23 0	11 57		n.a.
S 10	16 37	9 6	4 39	17 38	0 54	6 53	1 32	18 4	2 6	24 7	0 33	20 30	1 4	23 48	0 28	1 43	1 55	3 8	14 32	23 8	23 1	11 59		n.a.
M11	16 55	3 40	5 1	18 11	1 0	7 22	1 31	17 57	2 7	24 7	0 33	20 31	1 4	23 48	0 28	1 43	1 55	3 8	14 32	23 8	23 1	12 2		n.a.
T 12	17 13	2 s 8	5 4	18 43	1 5	7 51	1 30	17 50	2 9	24 6	0 33	20 32	1 4	23 48	0 28	1 44	1 55	3 9	14 32	23 9	23 1	12 4		n.a.
W13	17 30	7 56	4 47	19 15	1 11	8 20	1 29	17 43	2 10	24 6	0 33	20 34	1 4	23 48	0 28	1 44	1 55	3 9	14 32	23 10	23 2	12 6		n.a.
T 14	17 47	13 19	4 8	19 45	1 16	8 49	1 27	17 37	2 12	24 5	0 33	20 35	1 4	23 47	0 28	1 44	1 55	3 9	14 31	23 11	23 2	12 9		n.a.
F 15	18 4	17 50	3 12	20 14	1 22	9 18	1 26	17 30	2 13	24 5	0 33	20 36	1 4	23 47	0 28	1 45	1 55	3 9	14 31	23 11	23 2	12 11		n.a.
S 16	18 20	21 7	2 3	20 43	1 27	9 46	1 25	17 24	2 14	24 4	0 33	20 37	1 4	23 47	0 28	1 45	1 55	3 10	14 31	23 12	23 3	12 14		n.a.
S 17	18 36	22 53	0 47	21 10	1 31	10 14	1 23	17 17	2 16	24 4	0 33	20 39	1 4	23 47	0 28	1 45	1 55	3 10	14 31	23 12	23 3	12 16		n.a.
M18	18 52	23 6	0 s29	21 37	1 36	10 42	1 21	17 11	2 17	24 3	0 33	20 40	1 4	23 46	0 28	1 46	1 55	3 10	14 31	23 12	23 3	12 18		n.a.
T 19	19 7	21 52	1 42	22 2	1 40	11 10	1 20	17 4	2 19	24 2	0 33	20 41	1 4	23 46	0 28	1 46	1 55	3 10	14 31	23 12	23 3	12 21		n.a.
W20	19 22	19 26	2 47	22 26	1 45	11 38	1 18	16 58	2 20	24 2	0 33	20 42	1 4	23 46	0 28	1 46	1 55	3 10	14 30	23 12	23 4	12 23		n.a.
T 21	19 37	16 5	3 41	22 49	1 48	12 5	1 16	16 52	2 22	24 1	0 33	20 44	1 3	23 46	0 28	1 47	1 55	3 11	14 30	23 12	23 4	12 26		n.a.
F 22	19 51	12 5	4 23	23 11	1 52	12 32	1 15	16 46	2 23	24 0	0 33	20 45	1 3	23 46	0 28	1 47	1 55	3 11	14 30	23 12	23 4	12 28		n.a.
S 23	20 5	7 41	4 52	23 32	1 55	12 58	1 13	16 40	2 25	24 0	0 33	20 46	1 3	23 45	0 28	1 47	1 55	3 11	14 30	23 12	23 5	12 30		n.a.
S 24	20 18	3 3	5 7	23 51	1 58	13 24	1 11	16 34	2 26	23 59	0 33	20 47	1 3	23 45	0 28	1 47	1 54	3 11	14 30	23 12	23 5	12 33		n.a.
M25	20 31	1n39	5 8	24 9	2 1	13 50	1 9	16 28	2 28	23 58	0 33	20 49	1 3	23 45	0 28	1 47	1 54	3 11	14 29	23 13	23 5	12 35		n.a.
T 26	20 44	6 15	4 56	24 25	2 4	14 16	1 7	16 22	2 29	23 57	0 33	20 50	1 3	23 45	0 28	1 48	1 54	3 11	14 29	23 14	23 6	12 38		n.a.
W27	20 56	10 37	4 32	24 40	2 6	14 41	1 5	16 16	2 31	23 56	0 33	20 51	1 3	23 44	0 28	1 48	1 54	3 11	14 29	23 14	23 6	12 40		n.a.
T 28	21 8	14 36	3 55	24 54	2 7	15 6	1 3	16 11	2 32	23 55	0 33	20 52	1 3	23 44	0 28	1 48	1 54	3 11	14 29	23 15	23 6	12 42		n.a.
F 29	21 19	18 1	3 9	25 6	2 8	15 30	1 1	16 5	2 34	23 55	0 33	20 53	1 3	23 44	0 28	1 48	1 54	3 12	14 29	23 15	23 7	12 45		n.a.
S 30	21 s31	20n42	2 s13	25 s16	2 s 9	15 s55	0n59	16n 0	2n36	23 s54	0 s33	20 s55	1n 3	23 s44	0 s28	1 s48	1 s54	3 s12	14 s28	23n16	23n 7	12n47		n.a.

Julian Day Number = 1683741.5, Delta T = 03h14m06s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'23, Lahiri = - 5°22'23 Julian Calendar 1 Nov. 104 BCE == Greg. Calendar 29 Oct. 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 104 BCE
geocentric

DECEMBER 104 BCE (-103) JC 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	4 27 12	6♐47'23	27♊29	19♐18	17♏22	24♌40	10♑ 2	8♐28	10♑52	29°R50	26°R23	10°R44	12♋25	16♉22	n.a.	S 1
M 2	4 31 8	7°48'38	9♋36	20°54	18°38	24°59	10°15	8°35	10°55	29♓50	26♈23	10°D43	12°22	16°29	n.a.	M 2
T 3	4 35 5	8°49'53	21°52	22°30	19°53	25°18	10°28	8°42	10°58	29°49	26°22	10♋44	12°19	16°35	n.a.	T 3
W 4	4 39 1	9°51'07	4♌21	24° 5	21° 8	25°37	10°42	8°49	11° 1	29°49	26°21	10°45	12°16	16°42	n.a.	W 4
T 5	4 42 58	10°52'22	17° 3	25°39	22°24	25°56	10°55	8°56	11° 4	29°49	26°20	10°47	12°13	16°49	n.a.	T 5
F 6	4 46 55	11°53'37	0♍ 4	27°13	23°39	26°14	11° 8	9° 3	11° 7	29°48	26°20	10°49	12°10	16°55	n.a.	F 6
S 7	4 50 51	12°54'52	13°26	28°46	24°54	26°31	11°22	9°10	11°10	29°48	26°19	10°R49	12° 6	17° 2	n.a.	S 7
S 8	4 54 48	13°56'07	27°11	0♑17	26° 9	26°48	11°35	9°17	11°14	29°48	26°18	10°48	12° 3	17° 9	n.a.	S 8
M 9	4 58 44	14°57'23	11♎21	1°47	27°25	27° 5	11°49	9°24	11°17	29°48	26°17	10°47	12° 0	17°15	n.a.	M 9
T 10	5 2 41	15°58'38	25°53	3°15	28°40	27°21	12° 2	9°31	11°20	29°48	26°17	10°44	11°57	17°22	n.a.	T 10
W11	5 6 37	16°59'53	10♏43	4°41	29°55	27°37	12°16	9°38	11°23	29°47	26°16	10°40	11°54	17°29	n.a.	W11
T 12	5 10 34	18° 1'08	25°46	6° 4	1♐11	27°52	12°30	9°45	11°27	29°47	26°15	10°37	11°50	17°36	n.a.	T 12
F 13	5 14 30	19° 2'22	10♐51	7°24	2°26	28° 7	12°43	9°52	11°30	29°47	26°15	10°34	11°47	17°42	n.a.	F 13
S 14	5 18 27	20° 3'36	25°51	8°40	3°41	28°21	12°57	9°59	11°33	29°D47	26°14	10°33	11°44	17°49	n.a.	S 14
S 15	5 22 24	21° 4'50	10♑35	9°52	4°57	28°35	13°11	10° 6	11°37	29°47	26°13	10°D32	11°41	17°56	n.a.	S 15
M16	5 26 20	22° 6'03	24°58	10°58	6°12	28°48	13°25	10°13	11°40	29°47	26°13	10°33	11°38	18° 2	n.a.	M16
T 17	5 30 17	23° 7'16	8♒55	11°59	7°27	29° 1	13°39	10°20	11°43	29°48	26°12	10°34	11°35	18° 9	n.a.	T 17
W18	5 34 13	24° 8'27	22°26	12°52	8°42	29°13	13°52	10°27	11°47	29°48	26°12	10°35	11°31	18°16	n.a.	W18
T 19	5 38 10	25° 9'37	5♓30	13°39	9°58	29°25	14° 6	10°34	11°50	29°48	26°11	10°36	11°28	18°22	n.a.	T 19
F 20	5 42 6	26°10'47	18°11	14°16	11°13	29°36	14°20	10°41	11°54	29°48	26°11	10°37	11°25	18°29	n.a.	F 20
S 21	5 46 3	27°11'55	0♈34	14°44	12°28	29°47	14°34	10°48	11°57	29°48	26°10	10°R37	11°22	18°36	n.a.	S 21
S 22	5 49 59	28°13'02	12°41	15° 2	13°43	29°57	14°48	10°55	12° 0	29°49	26°10	10°37	11°19	18°43	n.a.	S 22
M23	5 53 56	29°14'09	24°39	15°R 9	14°59	0♍ 6	15° 2	11° 2	12° 4	29°49	26° 9	10°36	11°16	18°49	n.a.	M23
T 24	5 57 53	0♑15'14	6♉31	15° 5	16°14	0°15	15°16	11° 8	12° 7	29°49	26° 9	10°34	11°12	18°56	n.a.	T 24
W25	6 1 49	1°16'18	18°21	14°49	17°29	0°23	15°31	11°15	12°11	29°50	26° 8	10°33	11° 9	19° 3	n.a.	W25
T 26	6 5 46	2°17'21	0♊12	14°21	18°44	0°30	15°45	11°22	12°14	29°50	26° 8	10°31	11° 6	19° 9	n.a.	T 26
F 27	6 9 42	3°18'23	12° 8	13°43	19°59	0°37	15°59	11°29	12°18	29°50	26° 8	10°30	11° 3	19°16	n.a.	F 27
S 28	6 13 39	4°19'24	24°12	12°54	21°15	0°43	16°13	11°35	12°21	29°51	26° 7	10°30	11° 0	19°23	n.a.	S 28
S 29	6 17 35	5°20'23	6♋23	11°57	22°30	0°49	16°27	11°42	12°25	29°51	26° 7	10°D30	10°56	19°29	n.a.	S 29
M30	6 21 32	6°21'22	18°46	10°52	23°45	0°54	16°41	11°49	12°28	29°52	26° 7	10°30	10°53	19°36	n.a.	M30
T 31	6 25 29	7♑22'20	1♌19	9♑42	25♐ 0	0♍58	16♑56	11♐55	12♑32	29♓53	26♈ 7	10♋30	10♋50	19♉43	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21 s41	22n29	1 s12	25 s25	2 s 9	16 s18	0n57	15n55	2n37	23 s53	0 s33	20 s56	1n 3	23 s43	0 s28	1 s48	1 s54	3 s12	14 s28	23n16	23n 7	12n49		n.a.
M 2	21 51	23 15	0 6	25 32	2 9	16 41	0 54	15 50	2 39	23 52	0 33	20 57	1 3	23 43	0 28	1 49	1 54	3 12	14 28	23 16	23 7	12 52		n.a.
T 3	22 1	22 54	1n 1	25 38	2 8	17 4	0 52	15 45	2 41	23 51	0 34	20 58	1 3	23 43	0 28	1 49	1 54	3 12	14 28	23 16	23 8	12 54		n.a.
W 4	22 11	21 25	2 6	25 41	2 7	17 27	0 50	15 40	2 42	23 50	0 34	20 59	1 3	23 43	0 28	1 49	1 54	3 12	14 28	23 16	23 8	12 57		n.a.
T 5	22 20	18 51	3 6	25 43	2 5	17 48	0 48	15 35	2 44	23 49	0 34	21 0	1 2	23 42	0 28	1 49	1 54	3 12	14 27	23 16	23 8	12 59		n.a.
F 6	22 28	15 17	3 58	25 43	2 3	18 10	0 45	15 30	2 46	23 48	0 34	21 2	1 2	23 42	0 28	1 49	1 54	3 12	14 27	23 16	23 9	13 1		n.a.
S 7	22 36	10 52	4 39	25 41	1 59	18 31	0 43	15 26	2 47	23 47	0 34	21 3	1 2	23 42	0 28	1 49	1 54	3 12	14 27	23 16	23 9	13 4		n.a.
S 8	22 44	5 47	5 5	25 38	1 55	18 51	0 41	15 21	2 49	23 45	0 34	21 4	1 2	23 41	0 28	1 49	1 54	3 12	14 27	23 16	23 9	13 6		n.a.
M 9	22 51	0 16	5 14	25 32	1 51	19 11	0 38	15 17	2 51	23 44	0 34	21 5	1 2	23 41	0 28	1 49	1 54	3 12	14 26	23 16	23 9	13 8		n.a.
T 10	22 58	5 s24	5 3	25 25	1 45	19 30	0 36	15 13	2 53	23 43	0 34	21 6	1 2	23 41	0 28	1 49	1 54	3 12	14 26	23 16	23 10	13 11		n.a.
W11	23 4	10 54	4 32	25 16	1 39	19 49	0 33	15 9	2 54	23 42	0 34	21 7	1 2	23 41	0 28	1 49	1 53	3 12	14 26	23 16	23 10	13 13		n.a.
T 12	23 10	15 49	3 42	25 5	1 31	20 7	0 31	15 6	2 56	23 41	0 34	21 8	1 2	23 40	0 28	1 49	1 53	3 12	14 25	23 17	23 10	13 16		n.a.
F 13	23 15	19 45	2 36	24 53	1 23	20 25	0 29	15 2	2 58	23 39	0 34	21 9	1 2	23 40	0 28	1 49	1 53	3 12	14 25	23 17	23 11	13 18		n.a.
S 14	23 20	22 18	1 20	24 39	1 14	20 42	0 26	14 59	3 0	23 38	0 34	21 11	1 2	23 40	0 28	1 49	1 53	3 12	14 25	23 17	23 11	13 20		n.a.
S 15	23 24	23 17	0 s 0	24 23	1 3	20 58	0 24	14 56	3 2	23 37	0 34	21 12	1 2	23 39	0 28	1 49	1 53	3 12	14 25	23 17	23 11	13 23		n.a.
M16	23 28	22 40	1 19	24 7	0 52	21 14	0 21	14 53	3 3	23 35	0 34	21 13	1 2	23 39	0 28	1 49	1 53	3 12	14 24	23 17	23 11	13 25		n.a.
T 17	23 32	20 39	2 31	23 49	0 40	21 29	0 19	14 50	3 5	23 34	0 34	21 14	1 2	23 39	0 28	1 49	1 53	3 12	14 24	23 17	23 12	13 27		n.a.
W18	23 35	17 31	3 31	23 31	0 26	21 44	0 16	14 47	3 7	23 33	0 34	21 15	1 2	23 39	0 28	1 48	1 53	3 12	14 24	23 17	23 12	13 30		n.a.
T 19	23 37	13 36	4 19	23 11	0 11	21 58	0 14	14 45	3 9	23 31	0 34	21 16	1 2	23 38	0 28	1 48	1 53	3 12	14 24	23 17	23 12	13 32		n.a.
F 20	23 39	9 12	4 53	22 52	0n 4	22 11	0 11	14 43	3 11	23 30	0 35	21 17	1 2	23 38	0 28	1 48	1 53	3 12	14 23	23 17	23 13	13 34		n.a.
S 21	23 41	4 32	5 12	22 32	0 21	22 24	0 9	14 41	3 13	23 28	0 35	21 18	1 2	23 38	0 28	1 48	1 53	3 11	14 23	23 17	23 13	13 37		n.a.
S 22	23 42	0n13	5 16	22 13	0 38	22 36	0 6	14 39	3 15	23 27	0 35	21 19	1 2	23 37	0 28	1 48	1 53	3 11	14 23	23 17	23 13	13 39		n.a.
M23	23 42	4 54	5 7	21 54	0 56	22 47	0 4	14 37	3 17	23 25	0 35	21 20	1 2	23 37	0 28	1 48	1 53	3 11	14 22	23 17	23 13	13 41		n.a.
T 24	23 42	9 21	4 45	21 36	1 15	22 58	0 1	14 36	3 19	23 24	0 35	21 21	1 2	23 37	0 28	1 47	1 53	3 11	14 22	23 17	23 14	13 44		n.a.
W25	23 42	13 28	4 11	21 20	1 33	23 8	0 s 1	14 35	3 21	23 22	0 35	21 22	1 2	23 36	0 28	1 47	1 53	3 11	14 22	23 17	23 14	13 46		n.a.
T 26	23 41	17 4	3 25	21 4	1 52	23 17	0 4	14 34	3 23	23 21	0 35	21 23	1 1	23 36	0 28	1 47	1 53	3 11	14 21	23 17	23 14	13 48		n.a.
F 27	23 40	20 0	2 31	20 50	2 10	23 26	0 6	14 33	3 24	23 19	0 35	21 24	1 1	23 36	0 28	1 47	1 52	3 11	14 21	23 17	23 14	13 51		n.a.
S 28	23 38	22 5	1 29	20 37	2 28	23 33	0 9	14 33	3 26	23 17	0 35	21 25	1 1	23 35	0 28	1 47	1 52	3 10	14 21	23 17	23 15	13 53		n.a.
S 29	23 36	23 10	0 23	20 26	2 44	23 40	0 11	14 33	3 28	23 16	0 35	21 26	1 1	23 35	0 28	1 46	1 52	3 10	14 21	23 17	23 15	13 55		n.a.
M30	23 33	23 8	0n46	20 17	2 59	23 47	0 13	14 33	3 30	23 14	0 35	21 27	1 1	23 35	0 28	1 46	1 52	3 10	14 20	23 17	23 15	13 58		n.a.
T 31	23 s30	21n56	1n53	20 s10	3n11	23 s52	0 s16	14n33	3n32	23 s12	0 s35	21 s27	1n 1	23 s34	0 s28	1 s46	1 s52	3 s10	14 s20	23n17	23n16	14n 0		n.a.

Julian Day Number = 1683771.5, Delta T = 03h14m05s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'19, Lahiri = - 5°22'18 Julian Calendar 1 Dec. 104 BCE == Greg. Calendar 28 Nov. 104 BCE

The year -103 astronomical counting style corresponds to year 104 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

JANUARY 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	6 29 25	8♑23'16	14♌ 5	8°R28	26♐15	1♍ 2	17♑10	12♐ 2	12♑35	29♓53	26°R 6	10♋30	10♋47	19♉49	n.a.	W 1
T 2	6 33 22	9°24'12	27° 4	7♑14	27°31	1° 5	17°24	12° 8	12°39	29°54	26♈ 6	10°30	10°44	19°56	n.a.	T 2
F 3	6 37 18	10°25'07	10♍18	6° 0	28°46	1° 7	17°39	12°15	12°42	29°55	26° 6	10°R30	10°41	20° 3	n.a.	F 3
S 4	6 41 15	11°26'00	23°46	4°50	0♑ 1	1° 8	17°53	12°21	12°46	29°55	26° 6	10°30	10°37	20°10	n.a.	S 4
S 5	6 45 11	12°26'53	7♎31	3°44	1°16	1°R 9	18° 7	12°28	12°49	29°56	26° 5	10°D30	10°34	20°16	n.a.	S 5
M 6	6 49 8	13°27'44	21°30	2°44	2°31	1° 9	18°21	12°34	12°53	29°57	26° 5	10°30	10°31	20°23	n.a.	M 6
T 7	6 53 4	14°28'35	5♏45	1°52	3°46	1° 8	18°36	12°41	12°56	29°58	26° 5	10°30	10°28	20°30	n.a.	T 7
W 8	6 57 1	15°29'24	20°11	1° 7	5° 1	1° 7	18°50	12°47	13° 0	29°59	26° 5	10°31	10°25	20°36	n.a.	W 8
T 9	7 0 58	16°30'13	4♐47	0°30	6°16	1° 4	19° 4	12°53	13° 3	29°59	26° 5	10°31	10°22	20°43	n.a.	T 9
F 10	7 4 54	17°31'00	19°26	0° 2	7°32	1° 1	19°19	13° 0	13° 7	0♈ 0	26° 5	10°32	10°18	20°50	n.a.	F 10
S 11	7 8 51	18°31'46	4♑ 3	29♐42	8°47	0°57	19°33	13° 6	13°10	0° 1	26° 5	10°R32	10°15	20°56	n.a.	S 11
S 12	7 12 47	19°32'31	18°31	29°30	10° 2	0°53	19°48	13°12	13°14	0° 2	26°D 5	10°32	10°12	21° 3	n.a.	S 12
M13	7 16 44	20°33'14	2♒45	29°D25	11°17	0°47	20° 2	13°18	13°17	0° 3	26° 5	10°32	10° 9	21°10	n.a.	M13
T 14	7 20 40	21°33'56	16°40	29°28	12°32	0°41	20°16	13°24	13°21	0° 4	26° 5	10°31	10° 6	21°16	n.a.	T 14
W15	7 24 37	22°34'36	0♓12	29°37	13°47	0°34	20°31	13°30	13°24	0° 5	26° 5	10°29	10° 2	21°23	n.a.	W15
T 16	7 28 33	23°35'13	13°21	29°53	15° 2	0°26	20°45	13°36	13°28	0° 7	26° 5	10°27	9°59	21°30	n.a.	T 16
F 17	7 32 30	24°35'50	26° 8	0♑15	16°17	0°18	20°59	13°42	13°31	0° 8	26° 5	10°25	9°56	21°37	n.a.	F 17
S 18	7 36 27	25°36'24	8♈35	0°42	17°32	0° 8	21°14	13°48	13°35	0° 9	26° 5	10°24	9°53	21°43	n.a.	S 18
S 19	7 40 23	26°36'56	20°46	1°15	18°47	29♌58	21°28	13°54	13°38	0°10	26° 5	10°23	9°50	21°50	n.a.	S 19
M20	7 44 20	27°37'26	2♉45	1°52	20° 2	29°47	21°42	13°59	13°41	0°11	26° 5	10°D23	9°47	21°57	n.a.	M20
T 21	7 48 16	28°37'55	14°37	2°33	21°17	29°36	21°57	14° 5	13°45	0°13	26° 6	10°24	9°43	22° 3	n.a.	T 21
W22	7 52 13	29°38'21	26°27	3°18	22°32	29°23	22°11	14°11	13°48	0°14	26° 6	10°25	9°40	22°10	n.a.	W22
T 23	7 56 9	0♒38'45	8♊20	4° 7	23°47	29°10	22°25	14°16	13°52	0°15	26° 6	10°27	9°37	22°17	n.a.	T 23
F 24	8 0 6	1°39'08	20°19	4°59	25° 2	28°56	22°39	14°22	13°55	0°16	26° 6	10°29	9°34	22°23	n.a.	F 24
S 25	8 4 2	2°39'28	2♋29	5°55	26°17	28°41	22°54	14°27	13°58	0°18	26° 7	10°30	9°31	22°30	n.a.	S 25
S 26	8 7 59	3°39'47	14°52	6°53	27°32	28°26	23° 8	14°33	14° 2	0°19	26° 7	10°R30	9°28	22°37	n.a.	S 26
M27	8 11 56	4°40'03	27°30	7°54	28°46	28°10	23°22	14°38	14° 5	0°21	26° 7	10°29	9°24	22°43	n.a.	M27
T 28	8 15 52	5°40'18	10♌24	8°58	0♒ 1	27°53	23°36	14°43	14° 8	0°22	26° 7	10°26	9°21	22°50	n.a.	T 28
W29	8 19 49	6°40'31	23°33	10° 4	1°16	27°36	23°51	14°49	14°12	0°24	26° 8	10°23	9°18	22°57	n.a.	W29
T 30	8 23 45	7°40'42	6♍58	11°12	2°31	27°18	24° 5	14°54	14°15	0°25	26° 8	10°19	9°15	23° 3	n.a.	T 30
F 31	8 27 42	8♒40'51	20♍35	12♑22	3♒46	26♌59	24♑19	14♐59	14♑18	0♈27	26♈ 9	10♋14	9♋12	23♉10	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	23 s26	19n35	2n56	20 s 4	3n22	23 s57	0 s18	14n34	3n34	23 s11	0 s35	21 s28	1n 1	23 s34	0 s28	1 s45	1 s52	3 s10	14 s20	23n17	23n16	14n 2		n.a.
T 2	23 22	16 14	3 51	20 0	3 30	24 2	0 21	14 34	3 36	23 9	0 36	21 29	1 1	23 34	0 28	1 45	1 52	3 10	14 19	23 17	23 16	14 5		n.a.
F 3	23 18	12 1	4 35	19 58	3 36	24 5	0 23	14 36	3 38	23 7	0 36	21 30	1 1	23 33	0 28	1 45	1 52	3 9	14 19	23 17	23 16	14 7		n.a.
S 4	23 13	7 9	5 4	19 58	3 39	24 8	0 25	14 37	3 40	23 5	0 36	21 31	1 1	23 33	0 28	1 44	1 52	3 9	14 19	23 17	23 17	14 9		n.a.
S 5	23 7	1 50	5 17	19 59	3 41	24 10	0 28	14 38	3 42	23 3	0 36	21 32	1 1	23 33	0 28	1 44	1 52	3 9	14 18	23 17	23 17	14 12		n.a.
M 6	23 1	3 s40	5 12	20 1	3 39	24 11	0 30	14 40	3 44	23 1	0 36	21 33	1 1	23 32	0 28	1 44	1 52	3 9	14 18	23 17	23 17	14 14		n.a.
T 7	22 55	9 4	4 47	20 5	3 36	24 11	0 32	14 42	3 46	23 0	0 36	21 34	1 1	23 32	0 28	1 43	1 52	3 8	14 18	23 17	23 17	14 16		n.a.
W 8	22 48	14 4	4 5	20 11	3 31	24 11	0 34	14 45	3 48	22 58	0 36	21 34	1 1	23 32	0 28	1 43	1 52	3 8	14 17	23 17	23 18	14 19		n.a.
T 9	22 40	18 17	3 6	20 17	3 25	24 10	0 36	14 47	3 50	22 56	0 36	21 35	1 1	23 31	0 28	1 42	1 52	3 8	14 17	23 17	23 18	14 21		n.a.
F 10	22 33	21 23	1 55	20 25	3 17	24 8	0 39	14 50	3 52	22 54	0 36	21 36	1 1	23 31	0 28	1 42	1 52	3 8	14 17	23 17	23 18	14 23		n.a.
S 11	22 25	23 3	0 36	20 34	3 9	24 5	0 41	14 54	3 54	22 52	0 36	21 37	1 1	23 31	0 28	1 42	1 52	3 7	14 16	23 17	23 18	14 25		n.a.
S 12	22 16	23 8	0 s44	20 43	2 59	24 2	0 43	14 57	3 56	22 50	0 36	21 38	1 1	23 30	0 28	1 41	1 52	3 7	14 16	23 17	23 19	14 28		n.a.
M13	22 7	21 43	2 0	20 54	2 49	23 58	0 45	15 1	3 58	22 48	0 36	21 38	1 1	23 30	0 28	1 41	1 51	3 7	14 16	23 17	23 19	14 30		n.a.
T 14	21 57	18 59	3 7	21 4	2 38	23 53	0 47	15 5	4 0	22 46	0 37	21 39	1 1	23 30	0 28	1 40	1 51	3 6	14 15	23 17	23 19	14 32		n.a.
W15	21 48	15 17	4 2	21 15	2 27	23 48	0 49	15 9	4 1	22 44	0 37	21 40	1 1	23 29	0 28	1 40	1 51	3 6	14 15	23 17	23 19	14 35		n.a.
T 16	21 37	10 56	4 42	21 27	2 16	23 41	0 51	15 13	4 3	22 41	0 37	21 41	1 1	23 29	0 28	1 39	1 51	3 6	14 15	23 17	23 20	14 37		n.a.
F 17	21 27	6 14	5 7	21 38	2 4	23 34	0 53	15 18	4 5	22 39	0 37	21 41	1 1	23 29	0 28	1 39	1 51	3 5	14 14	23 18	23 20	14 39		n.a.
S 18	21 15	1 24	5 16	21 50	1 53	23 27	0 54	15 23	4 7	22 37	0 37	21 42	1 1	23 28	0 28	1 38	1 51	3 5	14 14	23 18	23 20	14 42		n.a.
S 19	21 4	3n24	5 11	22 1	1 41	23 18	0 56	15 28	4 8	22 35	0 37	21 43	1 1	23 28	0 28	1 38	1 51	3 5	14 14	23 18	23 20	14 44		n.a.
M20	20 52	7 59	4 53	22 12	1 30	23 9	0 58	15 34	4 10	22 33	0 37	21 43	1 1	23 28	0 28	1 37	1 51	3 4	14 13	23 18	23 21	14 46		n.a.
T 21	20 40	12 14	4 22	22 23	1 18	22 59	1 0	15 40	4 12	22 31	0 37	21 44	1 1	23 27	0 28	1 37	1 51	3 4	14 13	23 18	23 21	14 48		n.a.
W22	20 27	16 1	3 40	22 33	1 7	22 49	1 1	15 46	4 13	22 28	0 37	21 45	1 1	23 27	0 28	1 36	1 51	3 4	14 13	23 18	23 21	14 51		n.a.
T 23	20 14	19 10	2 48	22 42	0 56	22 37	1 3	15 52	4 15	22 26	0 37	21 46	1 1	23 27	0 28	1 35	1 51	3 3	14 12	23 17	23 21	14 53		n.a.
F 24	20 1	21 32	1 49	22 51	0 45	22 25	1 5	15 58	4 16	22 24	0 38	21 46	1 1	23 26	0 28	1 35	1 51	3 3	14 12	23 17	23 21	14 55		n.a.
S 25	19 47	22 57	0 44	23 0	0 35	22 13	1 6	16 4	4 18	22 22	0 38	21 47	1 1	23 26	0 28	1 34	1 51	3 2	14 12	23 17	23 22	14 57		n.a.
S 26	19 33	23 16	0n24	23 7	0 24	21 59	1 7	16 11	4 19	22 19	0 38	21 47	1 1	23 26	0 28	1 34	1 51	3 2	14 11	23 17	23 22	15 0		n.a.
M27	19 19	22 24	1 32	23 14	0 14	21 46	1 9	16 18	4 20	22 17	0 38	21 48	1 1	23 25	0 28	1 33	1 51	3 2	14 11	23 17	23 22	15 2		n.a.
T 28	19 4	20 21	2 37	23 20	0 4	21 31	1 10	16 25	4 21	22 15	0 38	21 49	1 1	23 25	0 28	1 32	1 51	3 1	14 11	23 17	23 22	15 4		n.a.
W29	18 49	17 11	3 35	23 24	0 s 5	21 16	1 12	16 32	4 22	22 12	0 38	21 49	1 1	23 25	0 28	1 32	1 51	3 1	14 11	23 18	23 23	15 7		n.a.
T 30	18 33	13 6	4 22	23 28	0 14	21 0	1 13	16 39	4 23	22 10	0 38	21 50	1 1	23 24	0 28	1 31	1 51	3 0	14 10	23 18	23 23	15 9		n.a.
F 31	18 s18	8n17	4n55	23 s31	0 s23	20 s43	1 s14	16n47	4n24	22 s 7	0 s38	21 s50	1n 1	23 s24	0 s28	1 s30	1 s51	3 s 0	14 s10	23n18	23n23	15n11		n.a.

Julian Day Number = 1683802.5, Delta T = 03h14m04s
Ecliptic obliquity = 23°42'25, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'15, Lahiri = - 5°22'14 Julian Calendar 1 Jan. 103 BCE == Greg. Calendar 29 Dec. 104 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

FEBRUARY 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 31 38	9♒40'58	4♎23	13♑34	5♒ 1	26°R40	24♑33	15♐ 4	14♑22	0♈28	26♈ 9	10°R10	9♋ 8	23♉17	n.a.	S 1
S 2	8 35 35	10°41'04	18°20	14°48	6°16	26♌20	24°47	15° 9	14°25	0°30	26° 9	10♋ 7	9° 5	23°24	n.a.	S 2
M 3	8 39 31	11°41'08	2♏23	16° 3	7°30	26° 0	25° 1	15°14	14°28	0°31	26°10	10° 6	9° 2	23°30	n.a.	M 3
T 4	8 43 28	12°41'10	16°32	17°21	8°45	25°39	25°15	15°19	14°31	0°33	26°10	10°D 5	8°59	23°37	n.a.	T 4
W 5	8 47 25	13°41'11	0♐43	18°40	10° 0	25°18	25°29	15°24	14°34	0°35	26°11	10° 6	8°56	23°44	n.a.	W 5
T 6	8 51 21	14°41'10	14°55	20° 0	11°15	24°57	25°43	15°28	14°38	0°36	26°11	10° 8	8°53	23°50	n.a.	T 6
F 7	8 55 18	15°41'07	29° 7	21°22	12°29	24°35	25°57	15°33	14°41	0°38	26°12	10° 9	8°49	23°57	n.a.	F 7
S 8	8 59 14	16°41'03	13♑15	22°46	13°44	24°12	26°11	15°37	14°44	0°40	26°12	10°R 9	8°46	24° 4	n.a.	S 8
S 9	9 3 11	17°40'56	27°16	24°11	14°59	23°50	26°25	15°42	14°47	0°42	26°13	10° 8	8°43	24°10	n.a.	S 9
M10	9 7 7	18°40'48	11♒ 8	25°37	16°14	23°27	26°39	15°46	14°50	0°43	26°14	10° 5	8°40	24°17	n.a.	M10
T 11	9 11 4	19°40'37	24°46	27° 4	17°28	23° 3	26°53	15°51	14°53	0°45	26°14	10° 0	8°37	24°24	n.a.	T 11
W12	9 15 0	20°40'25	8♓ 8	28°33	18°43	22°40	27° 6	15°55	14°56	0°47	26°15	9°53	8°34	24°30	n.a.	W12
T 13	9 18 57	21°40'10	21°11	0♒ 4	19°58	22°17	27°20	15°59	14°59	0°49	26°16	9°46	8°30	24°37	n.a.	T 13
F 14	9 22 54	22°39'53	3♈56	1°35	21°12	21°53	27°34	16° 3	15° 2	0°51	26°16	9°38	8°27	24°44	n.a.	F 14
S 15	9 26 50	23°39'34	16°23	3° 8	22°27	21°30	27°47	16° 7	15° 5	0°53	26°17	9°32	8°24	24°50	n.a.	S 15
S 16	9 30 47	24°39'12	28°35	4°42	23°42	21° 6	28° 1	16°11	15° 8	0°54	26°18	9°26	8°21	24°57	n.a.	S 16
M17	9 34 43	25°38'48	10♉35	6°17	24°56	20°43	28°15	16°15	15°11	0°56	26°18	9°23	8°18	25° 4	n.a.	M17
T 18	9 38 40	26°38'21	22°28	7°54	26°11	20°19	28°28	16°19	15°14	0°58	26°19	9°D22	8°14	25°10	n.a.	T 18
W19	9 42 36	27°37'53	4♊18	9°31	27°25	19°56	28°42	16°23	15°16	1° 0	26°20	9°22	8°11	25°17	n.a.	W19
T 20	9 46 33	28°37'22	16°10	11°10	28°40	19°33	28°55	16°26	15°19	1° 2	26°21	9°23	8° 8	25°24	n.a.	T 20
F 21	9 50 29	29°36'48	28°11	12°51	29°55	19°10	29° 8	16°30	15°22	1° 4	26°21	9°24	8° 5	25°31	n.a.	F 21
S 22	9 54 26	0♓36'12	10♋24	14°32	1♓ 9	18°48	29°22	16°33	15°25	1° 6	26°22	9°R25	8° 2	25°37	n.a.	S 22
S 23	9 58 22	1°35'34	22°53	16°15	2°24	18°26	29°35	16°37	15°27	1° 8	26°23	9°24	7°59	25°44	n.a.	S 23
M24	10 2 19	2°34'53	5♌43	18° 0	3°38	18° 4	29°48	16°40	15°30	1°10	26°24	9°21	7°55	25°51	n.a.	M24
T 25	10 6 16	3°34'10	18°54	19°45	4°53	17°43	0♒ 1	16°43	15°33	1°12	26°25	9°15	7°52	25°57	n.a.	T 25
W26	10 10 12	4°33'25	2♍25	21°32	6° 7	17°22	0°14	16°46	15°35	1°14	26°26	9° 8	7°49	26° 4	n.a.	W26
T 27	10 14 9	5°32'38	16°16	23°20	7°21	17° 1	0°27	16°49	15°38	1°16	26°27	8°59	7°46	26°11	n.a.	T 27
F 28	10 18 5	6♓31'48	0♎22	25♒10	8♓36	16♌41	0♒40	16♐52	15♑40	1♈18	26♈28	8♋49	7♋43	26♉17	n.a.	F 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18s 1	2n59	5n11	23s32	0s32	20s26	1s15	16n54	4n25	22s 5	0s38	21s51	1n 1	23s24	0s28	1s30	1s50	2s59	14s10	23n19	23n23	15n13		n.a.
S 2	17 45	2s30	5 10	23 33	0 40	20 9	1 16	17 2	4 26	22 3	0 39	21 51	1 1	23 23	0 28	1 29	1 50	2 59	14 9	23 19	23 24	15 16		n.a.
M 3	17 28	7 54	4 50	23 32	0 48	19 51	1 17	17 10	4 27	22 0	0 39	21 52	1 1	23 23	0 28	1 28	1 50	2 59	14 9	23 19	23 24	15 18		n.a.
T 4	17 11	12 56	4 12	23 30	0 56	19 32	1 18	17 17	4 27	21 58	0 39	21 53	1 1	23 23	0 28	1 28	1 50	2 58	14 9	23 19	23 24	15 20		n.a.
W 5	16 54	17 17	3 19	23 26	1 3	19 12	1 19	17 25	4 28	21 55	0 39	21 53	1 1	23 22	0 28	1 27	1 50	2 58	14 8	23 19	23 24	15 22		n.a.
T 6	16 37	20 38	2 13	23 21	1 10	18 53	1 20	17 33	4 28	21 53	0 39	21 54	1 1	23 22	0 28	1 26	1 50	2 57	14 8	23 19	23 24	15 25		n.a.
F 7	16 19	22 42	1 0	23 15	1 17	18 32	1 21	17 41	4 28	21 50	0 39	21 54	1 1	23 22	0 28	1 26	1 50	2 57	14 8	23 19	23 25	15 27		n.a.
S 8	16 1	23 19	0s17	23 8	1 23	18 11	1 21	17 49	4 29	21 48	0 39	21 55	1 1	23 21	0 28	1 25	1 50	2 56	14 7	23 19	23 25	15 29		n.a.
S 9	15 42	22 26	1 32	22 59	1 29	17 50	1 22	17 57	4 29	21 45	0 39	21 55	1 1	23 21	0 28	1 24	1 50	2 56	14 7	23 19	23 25	15 31		n.a.
M10	15 24	20 12	2 40	22 49	1 35	17 28	1 23	18 4	4 29	21 43	0 40	21 55	1 1	23 21	0 28	1 23	1 50	2 55	14 7	23 19	23 25	15 34		n.a.
T 11	15 5	16 50	3 39	22 37	1 40	17 5	1 23	18 12	4 28	21 40	0 40	21 56	1 1	23 20	0 29	1 23	1 50	2 55	14 7	23 20	23 25	15 36		n.a.
W12	14 46	12 40	4 23	22 23	1 45	16 42	1 24	18 20	4 28	21 37	0 40	21 56	1 1	23 20	0 29	1 22	1 50	2 54	14 6	23 20	23 26	15 38		n.a.
T 13	14 26	8 1	4 53	22 9	1 49	16 19	1 24	18 27	4 28	21 35	0 40	21 57	1 1	23 20	0 29	1 21	1 50	2 54	14 6	23 21	23 26	15 40		n.a.
F 14	14 7	3 7	5 7	21 52	1 53	15 55	1 25	18 34	4 27	21 32	0 40	21 57	1 1	23 19	0 29	1 20	1 50	2 53	14 6	23 21	23 26	15 43		n.a.
S 15	13 47	1n48	5 7	21 34	1 57	15 31	1 25	18 42	4 27	21 30	0 40	21 58	1 1	23 19	0 29	1 20	1 50	2 53	14 5	23 22	23 26	15 45		n.a.
S 16	13 27	6 33	4 52	21 15	2 0	15 6	1 25	18 49	4 26	21 27	0 40	21 58	1 1	23 19	0 29	1 19	1 50	2 52	14 5	23 22	23 26	15 47		n.a.
M17	13 7	10 59	4 25	20 54	2 3	14 41	1 25	18 56	4 25	21 24	0 41	21 58	1 1	23 18	0 29	1 18	1 50	2 52	14 5	23 22	23 27	15 49		n.a.
T 18	12 46	14 57	3 46	20 31	2 6	14 16	1 25	19 3	4 24	21 22	0 41	21 59	1 1	23 18	0 29	1 17	1 50	2 51	14 4	23 22	23 27	15 51		n.a.
W19	12 26	18 19	2 58	20 7	2 8	13 50	1 25	19 9	4 23	21 19	0 41	21 59	1 1	23 18	0 29	1 16	1 50	2 51	14 4	23 22	23 27	15 54		n.a.
T 20	12 5	20 57	2 2	19 41	2 9	13 24	1 25	19 16	4 22	21 16	0 41	21 59	1 1	23 17	0 29	1 16	1 50	2 50	14 4	23 22	23 27	15 56		n.a.
F 21	11 44	22 41	1 0	19 14	2 10	12 57	1 25	19 22	4 21	21 14	0 41	22 0	1 1	23 17	0 29	1 15	1 50	2 50	14 4	23 22	23 27	15 58		n.a.
S 22	11 23	23 23	0n 5	18 44	2 11	12 31	1 25	19 28	4 20	21 11	0 41	22 0	1 1	23 17	0 29	1 14	1 50	2 49	14 3	23 22	23 28	16 0		n.a.
S 23	11 2	22 55	1 12	18 14	2 11	12 3	1 25	19 34	4 18	21 8	0 41	22 0	1 1	23 17	0 29	1 13	1 50	2 48	14 3	23 22	23 28	16 2		n.a.
M24	10 40	21 15	2 17	17 41	2 11	11 36	1 25	19 39	4 17	21 6	0 42	22 1	1 1	23 16	0 29	1 12	1 50	2 48	14 3	23 22	23 28	16 5		n.a.
T 25	10 19	18 25	3 16	17 7	2 10	11 8	1 24	19 44	4 15	21 3	0 42	22 1	1 2	23 16	0 29	1 11	1 50	2 47	14 3	23 23	23 28	16 7		n.a.
W26	9 57	14 32	4 5	16 31	2 9	10 40	1 24	19 49	4 14	21 0	0 42	22 1	1 2	23 16	0 29	1 10	1 50	2 47	14 2	23 23	23 28	16 9		n.a.
T 27	9 35	9 47	4 41	15 54	2 7	10 12	1 23	19 54	4 12	20 58	0 42	22 2	1 2	23 15	0 29	1 10	1 50	2 46	14 2	23 24	23 29	16 11		n.a.
F 28	9s13	4n27	5n 1	15s14	2s 5	9s43	1s23	19n59	4n10	20s55	0s42	22s 2	1n 2	23s15	0s29	1s 9	1s50	2s46	14s 2	23n25	23n29	16n14		n.a.

Julian Day Number = 1683833.5, Delta T = 03h14m03s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'10, Lahiri = - 5°22'10 Julian Calendar 1 Feb. 103 BCE == Greg. Calendar 29 Jan. 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

MARCH 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 22 2	7♓30'57	14♎37	27♒ 1	9♓50	16°R22	0♒53	16♐55	15♑43	1♈20	26♈28	8°R40	7♋39	26♉24	n.a.	S 1
S 2	10 25 58	8°30'03	28°57	28°53	11° 5	16♌ 3	1° 6	16°58	15°45	1°23	26°29	8♋33	7°36	26°31	n.a.	S 2
M 3	10 29 55	9°29'08	13♏17	0♓47	12°19	15°45	1°19	17° 1	15°48	1°25	26°30	8°28	7°33	26°37	n.a.	M 3
T 4	10 33 51	10°28'11	27°33	2°42	13°33	15°27	1°32	17° 3	15°50	1°27	26°31	8°25	7°30	26°44	n.a.	T 4
W 5	10 37 48	11°27'12	11♐42	4°38	14°48	15°10	1°44	17° 6	15°52	1°29	26°32	8°D24	7°27	26°51	n.a.	W 5
T 6	10 41 45	12°26'11	25°44	6°36	16° 2	14°54	1°57	17° 8	15°55	1°31	26°33	8°25	7°24	26°57	n.a.	T 6
F 7	10 45 41	13°25'09	9♑37	8°35	17°16	14°38	2° 9	17°10	15°57	1°33	26°34	8°R25	7°20	27° 4	n.a.	F 7
S 8	10 49 38	14°24'05	23°21	10°35	18°31	14°23	2°22	17°13	15°59	1°35	26°35	8°24	7°17	27°11	n.a.	S 8
S 9	10 53 34	15°22'58	6♒57	12°37	19°45	14° 9	2°34	17°15	16° 1	1°38	26°36	8°21	7°14	27°17	n.a.	S 9
M10	10 57 31	16°21'50	20°23	14°39	20°59	13°55	2°47	17°17	16° 4	1°40	26°38	8°15	7°11	27°24	n.a.	M10
T 11	11 1 27	17°20'40	3♓37	16°43	22°13	13°42	2°59	17°19	16° 6	1°42	26°39	8° 6	7° 8	27°31	n.a.	T 11
W12	11 5 24	18°19'28	16°40	18°47	23°28	13°30	3°11	17°21	16° 8	1°44	26°40	7°56	7° 5	27°37	n.a.	W12
T 13	11 9 20	19°18'13	29°29	20°52	24°42	13°19	3°23	17°22	16°10	1°46	26°41	7°43	7° 1	27°44	n.a.	T 13
F 14	11 13 17	20°16'57	12♈ 4	22°58	25°56	13° 9	3°35	17°24	16°12	1°49	26°42	7°31	6°58	27°51	n.a.	F 14
S 15	11 17 13	21°15'38	24°25	25° 4	27°10	12°59	3°47	17°26	16°14	1°51	26°43	7°19	6°55	27°57	n.a.	S 15
S 16	11 21 10	22°14'17	6♉33	27°11	28°24	12°50	3°59	17°27	16°16	1°53	26°44	7° 9	6°52	28° 4	n.a.	S 16
M17	11 25 7	23°12'54	18°31	29°17	29°39	12°42	4°11	17°28	16°18	1°55	26°45	7° 2	6°49	28°11	n.a.	M17
T 18	11 29 3	24°11'29	0♊22	1♈23	0♈53	12°35	4°22	17°30	16°19	1°58	26°46	6°57	6°45	28°17	n.a.	T 18
W19	11 33 0	25°10'01	12°11	3°28	2° 7	12°28	4°34	17°31	16°21	2° 0	26°48	6°55	6°42	28°24	n.a.	W19
T 20	11 36 56	26° 8'32	24° 2	5°32	3°21	12°23	4°45	17°32	16°23	2° 2	26°49	6°D54	6°39	28°31	n.a.	T 20
F 21	11 40 53	27° 7'00	6♋ 1	7°34	4°35	12°18	4°57	17°33	16°25	2° 4	26°50	6°R54	6°36	28°38	n.a.	F 21
S 22	11 44 49	28° 5'26	18°14	9°35	5°49	12°14	5° 8	17°34	16°26	2° 7	26°51	6°54	6°33	28°44	n.a.	S 22
S 23	11 48 46	29° 3'49	0♌45	11°34	7° 3	12°10	5°19	17°35	16°28	2° 9	26°52	6°52	6°30	28°51	n.a.	S 23
M24	11 52 42	0♈ 2'10	13°39	13°31	8°17	12° 8	5°30	17°35	16°29	2°11	26°54	6°48	6°26	28°58	n.a.	M24
T 25	11 56 39	1° 0'30	26°59	15°25	9°31	12° 6	5°41	17°36	16°31	2°13	26°55	6°41	6°23	29° 4	n.a.	T 25
W26	12 0 36	1°58'47	10♍44	17°16	10°45	12° 5	5°52	17°36	16°32	2°16	26°56	6°32	6°20	29°11	n.a.	W26
T 27	12 4 32	2°57'02	24°54	19° 4	11°59	12°D 5	6° 3	17°37	16°34	2°18	26°57	6°21	6°17	29°18	n.a.	T 27
F 28	12 8 29	3°55'15	9♎23	20°49	13°13	12° 6	6°14	17°37	16°35	2°20	26°59	6° 9	6°14	29°24	n.a.	F 28
S 29	12 12 25	4°53'26	24° 5	22°30	14°26	12° 7	6°24	17°37	16°36	2°22	27° 0	5°58	6°10	29°31	n.a.	S 29
S 30	12 16 22	5°51'35	8♏51	24° 8	15°40	12° 9	6°35	17°37	16°38	2°25	27° 1	5°49	6° 7	29°38	n.a.	S 30
M31	12 20 18	6♈49'43	23♏34	25♈41	16♈54	12♌12	6♒45	17°R37	16♑39	2♈27	27♈ 2	5♋42	6♋ 4	29♉44	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	8s51	1s11	5n 3	14s34	2s 3	9s14	1s22	20n 3	4n 8	20s52	0s42	22s 2	1n 2	23s15	0s29	1s 8	1s50	2s45	14s 2	23n25	23n29	16n16		n.a.	S 1
S 2	8 28	6 47	4 46	13 51	1 59	8 45	1 22	20 7	4 6	20 50	0 42	22 2	1 2	23 15	0 29	1 7	1 49	2 45	14 1	23 26	23 29	16 18		n.a.	S 2
M 3	8 6	12 1	4 11	13 7	1 55	8 16	1 21	20 10	4 4	20 47	0 43	22 3	1 2	23 14	0 29	1 6	1 49	2 44	14 1	23 26	23 29	16 20		n.a.	M 3
T 4	7 43	16 35	3 20	12 21	1 51	7 46	1 20	20 14	4 2	20 44	0 43	22 3	1 2	23 14	0 29	1 5	1 49	2 43	14 1	23 26	23 30	16 22		n.a.	T 4
W 5	7 21	20 10	2 17	11 34	1 46	7 16	1 19	20 17	4 0	20 42	0 43	22 3	1 2	23 14	0 29	1 4	1 49	2 43	14 1	23 26	23 30	16 24		n.a.	W 5
T 6	6 58	22 31	1 7	10 45	1 41	6 46	1 18	20 20	3 58	20 39	0 43	22 3	1 2	23 14	0 29	1 4	1 49	2 42	14 0	23 26	23 30	16 27		n.a.	T 6
F 7	6 35	23 28	0s 6	9 54	1 35	6 16	1 17	20 22	3 55	20 36	0 43	22 3	1 2	23 13	0 29	1 3	1 49	2 42	14 0	23 26	23 30	16 29		n.a.	F 7
S 8	6 12	22 57	1 19	9 2	1 28	5 46	1 16	20 24	3 53	20 34	0 43	22 4	1 2	23 13	0 29	1 2	1 49	2 41	14 0	23 26	23 30	16 31		n.a.	S 8
S 9	5 49	21 5	2 26	8 9	1 21	5 15	1 15	20 26	3 51	20 31	0 44	22 4	1 2	23 13	0 29	1 1	1 49	2 41	14 0	23 26	23 30	16 33		n.a.	S 9
M10	5 26	18 4	3 23	7 14	1 14	4 45	1 14	20 28	3 48	20 28	0 44	22 4	1 2	23 13	0 29	1 0	1 49	2 40	13 59	23 27	23 31	16 35		n.a.	M10
T 11	5 3	14 9	4 9	6 19	1 6	4 14	1 13	20 30	3 46	20 25	0 44	22 4	1 2	23 12	0 29	0 59	1 49	2 39	13 59	23 27	23 31	16 37		n.a.	T 11
W12	4 40	9 38	4 41	5 21	0 57	3 43	1 12	20 31	3 43	20 23	0 44	22 4	1 2	23 12	0 29	0 58	1 49	2 39	13 59	23 28	23 31	16 40		n.a.	W12
T 13	4 17	4 46	4 58	4 23	0 48	3 12	1 11	20 32	3 41	20 20	0 44	22 4	1 2	23 12	0 29	0 57	1 49	2 38	13 59	23 29	23 31	16 42		n.a.	T 13
F 14	3 53	0n13	5 0	3 25	0 39	2 41	1 9	20 32	3 38	20 17	0 45	22 4	1 2	23 12	0 29	0 56	1 49	2 38	13 59	23 30	23 31	16 44		n.a.	F 14
S 15	3 30	5 6	4 48	2 25	0 29	2 10	1 8	20 33	3 36	20 15	0 45	22 5	1 2	23 12	0 29	0 55	1 49	2 37	13 58	23 30	23 31	16 46		n.a.	S 15
S 16	3 7	9 43	4 23	1 25	0 18	1 39	1 6	20 33	3 33	20 12	0 45	22 5	1 2	23 11	0 29	0 55	1 49	2 37	13 58	23 31	23 32	16 48		n.a.	S 16
M17	2 43	13 54	3 47	0 24	0 8	1 8	1 5	20 33	3 30	20 10	0 45	22 5	1 2	23 11	0 29	0 54	1 49	2 36	13 58	23 31	23 32	16 50		n.a.	M17
T 18	2 20	17 31	3 1	0n36	0n 3	0 37	1 3	20 32	3 28	20 7	0 45	22 5	1 2	23 11	0 29	0 53	1 49	2 35	13 58	23 31	23 32	16 53		n.a.	T 18
W19	1 56	20 24	2 7	1 36	0 14	0 6	1 2	20 32	3 25	20 4	0 45	22 5	1 2	23 11	0 29	0 52	1 49	2 35	13 58	23 31	23 32	16 55		n.a.	W19
T 20	1 33	22 27	1 8	2 36	0 25	0n26	1 0	20 31	3 22	20 2	0 46	22 5	1 2	23 11	0 29	0 51	1 49	2 34	13 58	23 32	23 32	16 57		n.a.	T 20
F 21	1 10	23 29	0 5	3 36	0 37	0 57	0 58	20 29	3 20	19 59	0 46	22 5	1 2	23 10	0 29	0 50	1 49	2 34	13 57	23 32	23 32	16 59		n.a.	F 21
S 22	0 46	23 26	1n 0	4 34	0 48	1 28	0 57	20 28	3 17	19 56	0 46	22 5	1 2	23 10	0 30	0 49	1 49	2 33	13 57	23 32	23 33	17 1		n.a.	S 22
S 23	0 23	22 13	2 3	5 32	0 59	1 59	0 55	20 26	3 14	19 54	0 46	22 5	1 2	23 10	0 30	0 48	1 49	2 32	13 57	23 32	23 33	17 3		n.a.	S 23
M24	0n 1	19 48	3 1	6 28	1 10	2 31	0 53	20 25	3 12	19 51	0 46	22 5	1 2	23 10	0 30	0 47	1 49	2 32	13 57	23 32	23 33	17 5		n.a.	M24
T 25	0 24	16 17	3 52	7 22	1 20	3 2	0 51	20 23	3 9	19 49	0 47	22 5	1 2	23 10	0 30	0 46	1 49	2 31	13 57	23 32	23 33	17 8		n.a.	T 25
W26	0 48	11 47	4 31	8 15	1 31	3 33	0 49	20 20	3 6	19 46	0 47	22 5	1 2	23 10	0 30	0 46	1 49	2 31	13 57	23 33	23 33	17 10		n.a.	W26
T 27	1 11	6 33	4 55	9 6	1 41	4 4	0 47	20 18	3 4	19 44	0 47	22 5	1 2	23 9	0 30	0 45	1 49	2 30	13 56	23 33	23 33	17 12		n.a.	T 27
F 28	1 35	0 50	5 0	9 55	1 50	4 35	0 45	20 15	3 1	19 41	0 47	22 5	1 2	23 9	0 30	0 44	1 49	2 30	13 56	23 34	23 34	17 14		n.a.	F 28
S 29	1 58	5s 1	4 46	10 41	1 59	5 6	0 43	20 12	2 58	19 39	0 47	22 5	1 2	23 9	0 30	0 43	1 49	2 29	13 56	23 34	23 34	17 16		n.a.	S 29
S 30	2 21	10 37	4 12	11 25	2 7	5 36	0 41	20 9	2 56	19 36	0 48	22 5	1 2	23 9	0 30	0 42	1 49	2 28	13 56	23 35	23 34	17 18		n.a.	S 30
M31	2n44	15s36	3n23	12n 7	2n15	6n 7	0s39	20n 6	2n53	19s34	0s48	22s 5	1n 2	23s 9	0s30	0s41	1s49	2s28	13s56	23n35	23n34	17n20		n.a.	M31

Julian Day Number = 1683861.5, Delta T = 03h14m03s
Ecliptic obliquity = 23°42'27, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'07, Lahiri = - 5°22'06 Julian Calendar 1 March 103 BCE == Greg. Calendar 26 Feb. 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

APRIL 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 24 15	7♈47'49	8♐ 7	27♈10	18♈ 8	12♌15	6♒56	17°R37	16♑40	2♈29	27♈ 4	5°R38	6♋ 1	29♉51	n.a.	T 1
W 2	12 28 11	8°45'54	22°27	28°36	19°22	12°19	7° 6	17♐37	16°41	2°31	27° 5	5♋37	5°58	29°58	n.a.	W 2
T 3	12 32 8	9°43'58	6♑30	29°57	20°36	12°24	7°16	17°37	16°42	2°34	27° 6	5°37	5°55	0♊ 4	n.a.	T 3
F 4	12 36 4	10°42'00	20°18	1♉14	21°49	12°29	7°26	17°37	16°43	2°36	27° 8	5°36	5°51	0°11	n.a.	F 4
S 5	12 40 1	11°40'00	3♒50	2°26	23° 3	12°36	7°36	17°36	16°44	2°38	27° 9	5°35	5°48	0°18	n.a.	S 5
S 6	12 43 58	12°37'59	17° 8	3°34	24°17	12°42	7°46	17°35	16°45	2°40	27°10	5°32	5°45	0°24	n.a.	S 6
M 7	12 47 54	13°35'57	0♓14	4°37	25°31	12°50	7°55	17°35	16°46	2°43	27°12	5°25	5°42	0°31	n.a.	M 7
T 8	12 51 51	14°33'53	13° 8	5°36	26°44	12°58	8° 5	17°34	16°47	2°45	27°13	5°16	5°39	0°38	n.a.	T 8
W 9	12 55 47	15°31'48	25°50	6°30	27°58	13° 7	8°14	17°33	16°48	2°47	27°14	5° 5	5°36	0°44	n.a.	W 9
T 10	12 59 44	16°29'40	8♈22	7°20	29°12	13°16	8°24	17°32	16°49	2°49	27°16	4°52	5°32	0°51	n.a.	T 10
F 11	13 3 40	17°27'32	20°42	8° 4	0♉25	13°26	8°33	17°31	16°49	2°52	27°17	4°39	5°29	0°58	n.a.	F 11
S 12	13 7 37	18°25'22	2♉53	8°44	1°39	13°37	8°42	17°30	16°50	2°54	27°18	4°26	5°26	1° 4	n.a.	S 12
S 13	13 11 33	19°23'10	14°54	9°19	2°53	13°48	8°51	17°29	16°50	2°56	27°20	4°16	5°23	1°11	n.a.	S 13
M14	13 15 30	20°20'57	26°47	9°49	4° 6	14° 0	9° 0	17°28	16°51	2°58	27°21	4° 8	5°20	1°18	n.a.	M14
T 15	13 19 27	21°18'42	8♊36	10°14	5°20	14°12	9° 8	17°26	16°52	3° 0	27°22	4° 2	5°16	1°24	n.a.	T 15
W16	13 23 23	22°16'25	20°23	10°34	6°33	14°25	9°17	17°25	16°52	3° 2	27°24	4° 0	5°13	1°31	n.a.	W16
T 17	13 27 20	23°14'07	2♋13	10°49	7°47	14°39	9°25	17°23	16°52	3° 5	27°25	3°D59	5°10	1°38	n.a.	T 17
F 18	13 31 16	24°11'47	14°11	10°59	9° 0	14°53	9°33	17°21	16°53	3° 7	27°26	3°59	5° 7	1°44	n.a.	F 18
S 19	13 35 13	25° 9'25	26°22	11° 4	10°14	15° 8	9°42	17°20	16°53	3° 9	27°28	3°R59	5° 4	1°51	n.a.	S 19
S 20	13 39 9	26° 7'02	8♌52	11°R 4	11°27	15°23	9°50	17°18	16°53	3°11	27°29	3°59	5° 1	1°58	n.a.	S 20
M21	13 43 6	27° 4'37	21°45	11° 0	12°41	15°38	9°57	17°16	16°53	3°13	27°30	3°56	4°57	2° 4	n.a.	M21
T 22	13 47 2	28° 2'11	5♍ 4	10°51	13°54	15°54	10° 5	17°14	16°54	3°15	27°32	3°51	4°54	2°11	n.a.	T 22
W23	13 50 59	28°59'42	18°53	10°38	15° 8	16°11	10°13	17°12	16°54	3°17	27°33	3°44	4°51	2°18	n.a.	W23
T 24	13 54 56	29°57'13	3♎ 9	10°21	16°21	16°28	10°20	17° 9	16°54	3°19	27°34	3°36	4°48	2°24	n.a.	T 24
F 25	13 58 52	0♉54'42	17°50	10° 0	17°34	16°45	10°27	17° 7	16°R54	3°21	27°36	3°26	4°45	2°31	n.a.	F 25
S 26	14 2 49	1°52'10	2♏48	9°36	18°48	17° 3	10°35	17° 5	16°54	3°23	27°37	3°17	4°42	2°38	n.a.	S 26
S 27	14 6 45	2°49'36	17°53	9° 8	20° 1	17°22	10°42	17° 2	16°54	3°25	27°39	3° 9	4°38	2°44	n.a.	S 27
M28	14 10 42	3°47'02	2♐57	8°39	21°14	17°41	10°48	17° 0	16°54	3°28	27°40	3° 4	4°35	2°51	n.a.	M28
T 29	14 14 38	4°44'27	17°50	8° 7	22°28	18° 0	10°55	16°57	16°53	3°30	27°41	3° 1	4°32	2°58	n.a.	T 29
W30	14 18 35	5♉41'50	2♑26	7♉35	23♉41	18♌20	11♒ 2	16♐54	16♑53	3♈32	27♈43	3°D 0	4♋29	3♊ 4	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	3n 8	19s36	2n20	12n47	2n21	6n37	0s37	20n 2	2n51	19s31	0s48	22s 5	1n 2	23s 9	0s30	0s40	1s49	2s27	13s56	23n35	23n34	17n22		n.a.
W 2	3 31	22 20	1 9	13 23	2 28	7 8	0 35	19 59	2 48	19 29	0 48	22 5	1 2	23 9	0 30	0 39	1 49	2 27	13 56	23 35	23 34	17 24		n.a.
T 3	3 54	23 37	0s 5	13 58	2 33	7 38	0 32	19 55	2 45	19 27	0 49	22 5	1 3	23 9	0 30	0 38	1 49	2 26	13 55	23 35	23 34	17 27		n.a.
F 4	4 17	23 25	1 17	14 29	2 37	8 8	0 30	19 51	2 43	19 24	0 49	22 5	1 3	23 9	0 30	0 37	1 49	2 26	13 55	23 35	23 35	17 29		n.a.
S 5	4 40	21 50	2 23	14 58	2 41	8 38	0 28	19 47	2 40	19 22	0 49	22 5	1 3	23 8	0 30	0 37	1 49	2 25	13 55	23 35	23 35	17 31		n.a.
S 6	5 3	19 3	3 21	15 24	2 44	9 7	0 26	19 42	2 38	19 20	0 49	22 5	1 3	23 8	0 30	0 36	1 49	2 25	13 55	23 35	23 35	17 33		n.a.
M 7	5 25	15 21	4 6	15 48	2 46	9 37	0 23	19 38	2 35	19 17	0 49	22 5	1 3	23 8	0 30	0 35	1 49	2 24	13 55	23 36	23 35	17 35		n.a.
T 8	5 48	10 59	4 39	16 9	2 46	10 6	0 21	19 33	2 33	19 15	0 50	22 5	1 3	23 8	0 30	0 34	1 49	2 23	13 55	23 36	23 35	17 37		n.a.
W 9	6 11	6 12	4 57	16 27	2 46	10 35	0 19	19 28	2 30	19 13	0 50	22 5	1 3	23 8	0 30	0 33	1 49	2 23	13 55	23 37	23 35	17 39		n.a.
T 10	6 33	1 14	5 0	16 43	2 45	11 3	0 16	19 23	2 28	19 10	0 50	22 5	1 3	23 8	0 30	0 32	1 49	2 22	13 55	23 37	23 35	17 41		n.a.
F 11	6 56	3n43	4 49	16 55	2 43	11 32	0 14	19 18	2 26	19 8	0 50	22 4	1 3	23 8	0 30	0 31	1 49	2 22	13 55	23 37	23 36	17 43		n.a.
S 12	7 18	8 28	4 25	17 5	2 40	12 0	0 11	19 12	2 23	19 6	0 51	22 4	1 3	23 8	0 30	0 30	1 49	2 21	13 55	23 38	23 36	17 45		n.a.
S 13	7 40	12 50	3 49	17 13	2 36	12 28	0 9	19 7	2 21	19 4	0 51	22 4	1 3	23 8	0 30	0 30	1 49	2 21	13 55	23 38	23 36	17 47		n.a.
M14	8 2	16 41	3 4	17 17	2 30	12 56	0 7	19 1	2 18	19 2	0 51	22 4	1 3	23 8	0 30	0 29	1 49	2 20	13 54	23 39	23 36	17 50		n.a.
T 15	8 24	19 50	2 11	17 19	2 24	13 23	0 4	18 55	2 16	19 0	0 51	22 4	1 3	23 8	0 30	0 28	1 49	2 20	13 54	23 39	23 36	17 52		n.a.
W16	8 46	22 10	1 12	17 19	2 16	13 50	0 2	18 49	2 14	18 58	0 52	22 4	1 3	23 8	0 30	0 27	1 50	2 19	13 54	23 39	23 36	17 54		n.a.
T 17	9 8	23 32	0 9	17 15	2 8	14 16	0n 1	18 43	2 11	18 56	0 52	22 4	1 3	23 8	0 30	0 26	1 50	2 19	13 54	23 39	23 36	17 56		n.a.
F 18	9 29	23 50	0n54	17 9	1 58	14 43	0 3	18 36	2 9	18 54	0 52	22 3	1 3	23 8	0 30	0 25	1 50	2 18	13 54	23 39	23 36	17 58		n.a.
S 19	9 50	23 1	1 56	17 1	1 47	15 9	0 6	18 30	2 7	18 52	0 52	22 3	1 3	23 8	0 30	0 24	1 50	2 18	13 54	23 39	23 37	18 0		n.a.
S 20	10 12	21 3	2 55	16 50	1 35	15 34	0 8	18 23	2 5	18 50	0 53	22 3	1 3	23 8	0 30	0 24	1 50	2 17	13 54	23 39	23 37	18 2		n.a.
M21	10 33	17 58	3 46	16 36	1 23	15 59	0 11	18 16	2 2	18 48	0 53	22 3	1 3	23 8	0 30	0 23	1 50	2 17	13 54	23 39	23 37	18 4		n.a.
T 22	10 54	13 53	4 27	16 20	1 9	16 24	0 13	18 9	2 0	18 46	0 53	22 3	1 3	23 8	0 30	0 22	1 50	2 16	13 54	23 39	23 37	18 6		n.a.
W23	11 14	8 57	4 54	16 3	0 55	16 49	0 16	18 2	1 58	18 44	0 53	22 2	1 3	23 8	0 31	0 21	1 50	2 16	13 54	23 39	23 37	18 8		n.a.
T 24	11 35	3 22	5 4	15 43	0 39	17 12	0 18	17 55	1 56	18 42	0 54	22 2	1 3	23 8	0 31	0 20	1 50	2 15	13 54	23 39	23 37	18 10		n.a.
F 25	11 55	2s32	4 54	15 21	0 24	17 36	0 21	17 48	1 54	18 41	0 54	22 2	1 3	23 8	0 31	0 20	1 50	2 15	13 54	23 40	23 37	18 12		n.a.
S 26	12 15	8 26	4 25	14 58	0 7	17 59	0 23	17 40	1 52	18 39	0 54	22 2	1 3	23 8	0 31	0 19	1 50	2 14	13 54	23 40	23 37	18 14		n.a.
S 27	12 35	13 53	3 37	14 33	0s10	18 22	0 26	17 33	1 50	18 37	0 54	22 2	1 3	23 8	0 31	0 18	1 50	2 14	13 54	23 40	23 38	18 16		n.a.
M28	12 55	18 28	2 34	14 7	0 27	18 44	0 28	17 25	1 48	18 36	0 55	22 1	1 3	23 8	0 31	0 17	1 50	2 13	13 54	23 40	23 38	18 18		n.a.
T 29	13 15	21 49	1 20	13 41	0 44	19 5	0 31	17 17	1 46	18 34	0 55	22 1	1 3	23 8	0 31	0 16	1 50	2 13	13 54	23 40	23 38	18 20		n.a.
W30	13n34	23s38	0n 3	13n14	1s 1	19n26	0n33	17n 9	1n44	18s32	0s55	22s 1	1n 3	23s 8	0s31	0s16	1s50	2s12	13s54	23n40	23n38	18n22		n.a.

Julian Day Number = 1683892.5, Delta T = 03h14m02s
Ecliptic obliquity = 23°42'27, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°29'02, Lahiri = - 5°22'02 Julian Calendar 1 Apr. 103 BCE == Greg. Calendar 29 March 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

MAY 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	14 22 31	6♉39'13	16♋41	7°R 1	24♉54	18♌40	11♒ 8	16°R52	16°R53	3♈33	27♈44	3♋ 1	4♋26	3♊11	n.a.	T 1
F 2	14 26 28	7°36'36	0♒34	6♉27	26° 7	19° 0	11°14	16♐49	16♋53	3°35	27°45	3° 1	4°22	3°18	n.a.	F 2
S 3	14 30 25	8°33'57	14° 6	5°54	27°21	19°21	11°20	16°46	16°52	3°37	27°47	3°R 2	4°19	3°24	n.a.	S 3
S 4	14 34 21	9°31'18	27°18	5°21	28°34	19°42	11°26	16°43	16°52	3°39	27°48	3° 0	4°16	3°31	n.a.	S 4
M 5	14 38 18	10°28'38	10♓12	4°50	29°47	20° 4	11°32	16°40	16°51	3°41	27°49	2°56	4°13	3°38	n.a.	M 5
T 6	14 42 14	11°25'58	22°52	4°22	1♊ 0	20°26	11°38	16°37	16°51	3°43	27°51	2°51	4°10	3°44	n.a.	T 6
W 7	14 46 11	12°23'17	5♈19	3°55	2°13	20°48	11°43	16°34	16°50	3°45	27°52	2°43	4° 7	3°51	n.a.	W 7
T 8	14 50 7	13°20'35	17°36	3°32	3°26	21°11	11°48	16°30	16°49	3°47	27°53	2°34	4° 3	3°58	n.a.	T 8
F 9	14 54 4	14°17'52	29°43	3°11	4°39	21°34	11°53	16°27	16°49	3°49	27°55	2°25	4° 0	4° 4	n.a.	F 9
S 10	14 58 0	15°15'09	11♉43	2°55	5°53	21°58	11°58	16°24	16°48	3°50	27°56	2°17	3°57	4°11	n.a.	S 10
S 11	15 1 57	16°12'25	23°36	2°42	7° 6	22°21	12° 3	16°20	16°47	3°52	27°57	2°10	3°54	4°18	n.a.	S 11
M12	15 5 54	17° 9'40	5♊26	2°34	8°19	22°46	12° 8	16°17	16°47	3°54	27°59	2° 4	3°51	4°24	n.a.	M12
T 13	15 9 50	18° 6'55	17°13	2°D29	9°32	23°10	12°12	16°13	16°46	3°56	28° 0	2° 1	3°47	4°31	n.a.	T 13
W14	15 13 47	19° 4'08	29° 1	2°29	10°45	23°35	12°16	16° 9	16°45	3°57	28° 1	2°D 0	3°44	4°38	n.a.	W14
T 15	15 17 43	20° 1'21	10♋53	2°34	11°58	24° 0	12°20	16° 6	16°44	3°59	28° 2	2° 0	3°41	4°44	n.a.	T 15
F 16	15 21 40	20°58'33	22°52	2°43	13°11	24°25	12°24	16° 2	16°43	4° 1	28° 4	2° 1	3°38	4°51	n.a.	F 16
S 17	15 25 36	21°55'45	5♌ 4	2°57	14°24	24°51	12°28	15°58	16°42	4° 3	28° 5	2° 3	3°35	4°58	n.a.	S 17
S 18	15 29 33	22°52'55	17°32	3°15	15°36	25°17	12°32	15°54	16°41	4° 4	28° 6	2°R 4	3°32	5° 4	n.a.	S 18
M19	15 33 29	23°50'05	0♍22	3°38	16°49	25°44	12°35	15°51	16°40	4° 6	28° 7	2° 4	3°28	5°11	n.a.	M19
T 20	15 37 26	24°47'14	13°37	4° 6	18° 2	26°10	12°38	15°47	16°39	4° 7	28° 9	2° 2	3°25	5°18	n.a.	T 20
W21	15 41 23	25°44'22	27°21	4°37	19°15	26°37	12°41	15°43	16°37	4° 9	28°10	1°59	3°22	5°24	n.a.	W21
T 22	15 45 19	26°41'30	11♎33	5°14	20°28	27° 4	12°44	15°39	16°36	4°10	28°11	1°55	3°19	5°31	n.a.	T 22
F 23	15 49 16	27°38'37	26°10	5°54	21°41	27°32	12°47	15°35	16°35	4°12	28°12	1°50	3°16	5°38	n.a.	F 23
S 24	15 53 12	28°35'44	11♏ 9	6°39	22°53	27°59	12°49	15°31	16°34	4°13	28°13	1°46	3°13	5°44	n.a.	S 24
S 25	15 57 9	29°32'50	26°20	7°28	24° 6	28°27	12°51	15°26	16°32	4°15	28°15	1°42	3° 9	5°51	n.a.	S 25
M26	16 1 5	0♊29'56	11♐34	8°21	25°19	28°56	12°53	15°22	16°31	4°16	28°16	1°39	3° 6	5°58	n.a.	M26
T 27	16 5 2	1°27'02	26°41	9°18	26°31	29°24	12°55	15°18	16°29	4°18	28°17	1°D38	3° 3	6° 4	n.a.	T 27
W28	16 8 59	2°24'07	11♋31	10°20	27°44	29°53	12°57	15°14	16°28	4°19	28°18	1°38	3° 0	6°11	n.a.	W28
T 29	16 12 55	3°21'13	26° 0	11°25	28°57	0♍22	12°58	15°10	16°26	4°21	28°19	1°39	2°57	6°18	n.a.	T 29
F 30	16 16 52	4°18'19	10♒ 4	12°34	0♋ 9	0°51	13° 0	15° 5	16°25	4°22	28°20	1°41	2°53	6°24	n.a.	F 30
S 31	16 20 48	5♊15'25	23♒43	13♉47	1♋22	1♍20	13♒ 1	15♐ 1	16♋23	4♈23	28♈22	1♋42	2♋50	6♊31	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	13n53	23s51	1s13	12n47	1s18	19n47	0n36	17n 1	1n42	18s31	0s55	22s 1	1n 3	23s 8	0s31	0s15	1s50	2s12	13s54	23n40	23n38	18n24			n.a.
F 2	14 12	22 34	2 22	12 20	1 35	20 7	0 38	16 52	1 40	18 29	0 56	22 0	1 3	23 8	0 31	0 14	1 50	2 11	13 54	23 40	23 38	18 26			n.a.
S 3	14 31	20 0	3 22	11 53	1 51	20 27	0 41	16 44	1 38	18 28	0 56	22 0	1 3	23 8	0 31	0 13	1 50	2 11	13 54	23 40	23 38	18 28			n.a.
S 4	14 49	16 27	4 10	11 28	2 7	20 46	0 43	16 35	1 36	18 27	0 56	22 0	1 3	23 8	0 31	0 13	1 50	2 11	13 54	23 40	23 38	18 30			n.a.
M 5	15 8	12 11	4 43	11 4	2 22	21 4	0 45	16 26	1 34	18 25	0 57	21 59	1 3	23 9	0 31	0 12	1 50	2 10	13 54	23 40	23 38	18 32			n.a.
T 6	15 26	7 29	5 2	10 41	2 35	21 22	0 48	16 17	1 32	18 24	0 57	21 59	1 3	23 9	0 31	0 11	1 50	2 10	13 54	23 41	23 38	18 34			n.a.
W 7	15 44	2 33	5 6	10 20	2 48	21 39	0 50	16 8	1 30	18 23	0 57	21 59	1 3	23 9	0 31	0 11	1 50	2 9	13 54	23 41	23 39	18 36			n.a.
T 8	16 1	2n25	4 56	10 0	3 0	21 56	0 52	15 59	1 28	18 21	0 57	21 59	1 3	23 9	0 31	0 10	1 50	2 9	13 54	23 41	23 39	18 38			n.a.
F 9	16 18	7 14	4 33	9 43	3 11	22 12	0 55	15 50	1 26	18 20	0 58	21 58	1 3	23 9	0 31	0 9	1 50	2 8	13 54	23 41	23 39	18 40			n.a.
S 10	16 36	11 45	3 58	9 29	3 21	22 28	0 57	15 41	1 25	18 19	0 58	21 58	1 3	23 9	0 31	0 8	1 50	2 8	13 54	23 41	23 39	18 42			n.a.
S 11	16 52	15 47	3 12	9 17	3 29	22 42	0 59	15 31	1 23	18 18	0 58	21 58	1 3	23 9	0 31	0 8	1 50	2 8	13 54	23 41	23 39	18 44			n.a.
M12	17 9	19 10	2 19	9 7	3 36	22 57	1 1	15 21	1 21	18 17	0 59	21 57	1 3	23 9	0 31	0 7	1 50	2 7	13 54	23 41	23 39	18 46			n.a.
T 13	17 25	21 46	1 19	9 0	3 42	23 10	1 3	15 11	1 19	18 16	0 59	21 57	1 3	23 9	0 31	0 6	1 50	2 7	13 55	23 42	23 39	18 48			n.a.
W14	17 41	23 26	0 16	8 55	3 47	23 23	1 5	15 2	1 17	18 15	0 59	21 57	1 3	23 10	0 31	0 6	1 50	2 6	13 55	23 42	23 39	18 50			n.a.
T 15	17 57	24 3	0n48	8 54	3 50	23 35	1 7	14 51	1 16	18 14	0 59	21 56	1 2	23 10	0 31	0 5	1 51	2 6	13 55	23 42	23 39	18 52			n.a.
F 16	18 12	23 34	1 51	8 55	3 53	23 47	1 9	14 41	1 14	18 13	1 0	21 56	1 2	23 10	0 31	0 5	1 51	2 6	13 55	23 41	23 39	18 54			n.a.
S 17	18 27	21 58	2 50	8 58	3 54	23 58	1 11	14 31	1 12	18 13	1 0	21 55	1 2	23 10	0 31	0 4	1 51	2 5	13 55	23 41	23 39	18 56			n.a.
S 18	18 42	19 17	3 43	9 4	3 54	24 8	1 13	14 21	1 11	18 12	1 0	21 55	1 2	23 10	0 31	0 3	1 51	2 5	13 55	23 41	23 40	18 58			n.a.
M19	18 56	15 36	4 26	9 12	3 54	24 18	1 15	14 10	1 9	18 11	1 1	21 55	1 2	23 10	0 31	0 3	1 51	2 5	13 55	23 41	23 40	19 0			n.a.
T 20	19 11	11 3	4 56	9 23	3 52	24 26	1 17	13 59	1 7	18 11	1 1	21 54	1 2	23 11	0 31	0 2	1 51	2 4	13 55	23 41	23 40	19 2			n.a.
W21	19 25	5 48	5 11	9 37	3 49	24 35	1 19	13 48	1 6	18 10	1 1	21 54	1 2	23 11	0 31	0 2	1 51	2 4	13 55	23 42	23 40	19 4			n.a.
T 22	19 38	0 6	5 7	9 52	3 45	24 42	1 21	13 38	1 4	18 10	1 1	21 54	1 2	23 11	0 31	0 1	1 51	2 4	13 55	23 42	23 40	19 6			n.a.
F 23	19 51	5s48	4 44	10 10	3 41	24 49	1 22	13 27	1 2	18 9	1 2	21 53	1 2	23 11	0 31	0 0	1 51	2 3	13 55	23 42	23 40	19 8			n.a.
S 24	20 4	11 31	4 2	10 30	3 36	24 55	1 24	13 15	1 1	18 9	1 2	21 53	1 2	23 11	0 31	0n 0	1 51	2 3	13 56	23 42	23 40	19 10			n.a.
S 25	20 17	16 37	3 1	10 51	3 30	25 0	1 26	13 4	0 59	18 8	1 2	21 52	1 2	23 12	0 31	0 1	1 51	2 3	13 56	23 42	23 40	19 12			n.a.
M26	20 29	20 39	1 48	11 15	3 23	25 4	1 27	12 53	0 58	18 8	1 3	21 52	1 2	23 12	0 32	0 1	1 51	2 2	13 56	23 42	23 40	19 14			n.a.
T 27	20 41	23 13	0 27	11 40	3 15	25 8	1 29	12 41	0 56	18 8	1 3	21 52	1 2	23 12	0 32	0 2	1 51	2 2	13 56	23 42	23 40	19 15			n.a.
W28	20 52	24 6	0s54	12 7	3 7	25 11	1 30	12 29	0 55	18 8	1 3	21 51	1 2	23 12	0 32	0 2	1 51	2 2	13 56	23 42	23 40	19 17			n.a.
T 29	21 4	23 18	2 10	12 36	2 58	25 13	1 31	12 18	0 53	18 7	1 4	21 51	1 2	23 12	0 32	0 3	1 51	2 2	13 56	23 42	23 40	19 19			n.a.
F 30	21 15	21 3	3 16	13 6	2 49	25 15	1 33	12 6	0 52	18 7	1 4	21 50	1 2	23 13	0 32	0 3	1 51	2 1	13 56	23 42	23 41	19 21			n.a.
S 31	21n25	17s40	4s 8	13n37	2s39	25n16	1n34	11n54	0n50	18s 7	1s 4	21s50	1n 2	23s13	0s32	0n 4	1s51	2s 1	13s56	23n42	23n41	19n23			n.a.

Julian Day Number = 1683922.5, Delta T = 03h14m01s
Ecliptic obliquity = 23°42'27, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'58, Lahiri = - 5°21'58 Julian Calendar 1 May 103 BCE == Greg. Calendar 28 Apr. 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

JUNE 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	16 24 45	6♊12'32	6♓57	15♉ 3	2♋34	1♍50	13♒ 2	14°R57	16°R22	4♈25	28♈23	1°R42	2♋47	6♊38	n.a.	S 1
M 2	16 28 41	7° 9'38	19°49	16°24	3°47	2°20	13° 2	14♐52	16♑20	4°26	28°24	1♋42	2°44	6°44	n.a.	M 2
T 3	16 32 38	8° 6'45	2♈23	17°48	4°59	2°50	13° 3	14°48	16°18	4°27	28°25	1°40	2°41	6°51	n.a.	T 3
W 4	16 36 34	9° 3'52	14°42	19°15	6°12	3°20	13° 3	14°44	16°17	4°28	28°26	1°37	2°38	6°58	n.a.	W 4
T 5	16 40 31	10° 0'59	26°49	20°47	7°24	3°51	13°R 3	14°39	16°15	4°29	28°27	1°34	2°34	7° 4	n.a.	T 5
F 6	16 44 28	10°58'07	8♉47	22°22	8°37	4°22	13° 3	14°35	16°13	4°31	28°28	1°31	2°31	7°11	n.a.	F 6
S 7	16 48 24	11°55'15	20°40	24° 0	9°49	4°53	13° 3	14°31	16°11	4°32	28°29	1°28	2°28	7°18	n.a.	S 7
S 8	16 52 21	12°52'23	2♊29	25°42	11° 2	5°24	13° 3	14°26	16° 9	4°33	28°30	1°25	2°25	7°24	n.a.	S 8
M 9	16 56 17	13°49'32	14°17	27°27	12°14	5°55	13° 2	14°22	16° 7	4°34	28°31	1°23	2°22	7°31	n.a.	M 9
T 10	17 0 14	14°46'41	26° 5	29°15	13°26	6°27	13° 1	14°17	16° 6	4°35	28°32	1°D23	2°19	7°38	n.a.	T 10
W11	17 4 10	15°43'50	7♋57	1♊ 6	14°39	6°59	13° 0	14°13	16° 4	4°36	28°33	1°23	2°15	7°44	n.a.	W11
T 12	17 8 7	16°40'59	19°55	3° 0	15°51	7°31	12°59	14° 8	16° 2	4°37	28°34	1°23	2°12	7°51	n.a.	T 12
F 13	17 12 3	17°38'09	2♌ 1	4°56	17° 3	8° 3	12°58	14° 4	16° 0	4°38	28°35	1°25	2° 9	7°57	n.a.	F 13
S 14	17 16 0	18°35'18	14°19	6°55	18°15	8°36	12°56	14° 0	15°58	4°39	28°36	1°26	2° 6	8° 4	n.a.	S 14
S 15	17 19 57	19°32'28	26°51	8°56	19°27	9° 8	12°54	13°55	15°56	4°40	28°37	1°27	2° 3	8°11	n.a.	S 15
M16	17 23 53	20°29'38	9♍42	10°59	20°40	9°41	12°52	13°51	15°53	4°40	28°38	1°27	1°59	8°17	n.a.	M16
T 17	17 27 50	21°26'48	22°55	13° 3	21°52	10°14	12°50	13°47	15°51	4°41	28°39	1°R28	1°56	8°24	n.a.	T 17
W18	17 31 46	22°23'58	6♎31	15° 9	23° 4	10°47	12°48	13°42	15°49	4°42	28°40	1°27	1°53	8°31	n.a.	W18
T 19	17 35 43	23°21'09	20°32	17°16	24°16	11°21	12°45	13°38	15°47	4°43	28°41	1°27	1°50	8°37	n.a.	T 19
F 20	17 39 39	24°18'20	4♏58	19°23	25°28	11°54	12°42	13°34	15°45	4°44	28°41	1°26	1°47	8°44	n.a.	F 20
S 21	17 43 36	25°15'31	19°44	21°31	26°40	12°28	12°39	13°29	15°43	4°44	28°42	1°25	1°44	8°51	n.a.	S 21
S 22	17 47 32	26°12'43	4♐46	23°39	27°52	13° 2	12°36	13°25	15°41	4°45	28°43	1°25	1°40	8°57	n.a.	S 22
M23	17 51 29	27° 9'56	19°54	25°47	29° 4	13°36	12°33	13°21	15°38	4°46	28°44	1°24	1°37	9° 4	n.a.	M23
T 24	17 55 26	28° 7'09	5♑ 0	27°54	0♌15	14°10	12°29	13°17	15°36	4°46	28°45	1°D24	1°34	9°11	n.a.	T 24
W25	17 59 22	29° 4'23	19°56	0♋ 1	1°27	14°44	12°26	13°13	15°34	4°47	28°45	1°24	1°31	9°17	n.a.	W25
T 26	18 3 19	0♋ 1'38	4♒33	2° 6	2°39	15°19	12°22	13° 8	15°32	4°47	28°46	1°25	1°28	9°24	n.a.	T 26
F 27	18 7 15	0°58'53	18°46	4°11	3°51	15°53	12°18	13° 4	15°29	4°48	28°47	1°R25	1°25	9°31	n.a.	F 27
S 28	18 11 12	1°56'10	2♓33	6°15	5° 2	16°28	12°14	13° 0	15°27	4°48	28°48	1°25	1°21	9°37	n.a.	S 28
S 29	18 15 8	2°53'28	15°54	8°17	6°14	17° 3	12° 9	12°56	15°25	4°49	28°48	1°25	1°18	9°44	n.a.	S 29
M30	18 19 5	3♋50'47	28♓50	10♋18	7♌25	17♍38	12♒ 5	12♐52	15♑22	4♈49	28♈49	1°D25	1♋15	9♊51	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21n35	13s28	4s46	14n 9	2s29	25n16	1n35	11n42	0n49	18s 7	1s 5	21s50	1n 2	23s13	0s32	0n 4	1s51	2s 1	13s57	23n42	23n41	19n25		n.a.
M 2	21 45	8 47	5 8	14 43	2 18	25 15	1 36	11 30	0 47	18 7	1 5	21 49	1 2	23 13	0 32	0 5	1 51	2 1	13 57	23 42	23 41	19 27		n.a.
T 3	21 54	3 50	5 15	15 17	2 7	25 14	1 37	11 17	0 46	18 8	1 5	21 49	1 2	23 13	0 32	0 5	1 52	2 0	13 57	23 42	23 41	19 29		n.a.
W 4	22 3	1n 9	5 6	15 53	1 56	25 12	1 38	11 5	0 44	18 8	1 5	21 48	1 1	23 14	0 32	0 6	1 52	2 0	13 57	23 42	23 41	19 31		n.a.
T 5	22 12	6 2	4 45	16 28	1 44	25 9	1 39	10 52	0 43	18 8	1 6	21 48	1 1	23 14	0 32	0 6	1 52	2 0	13 57	23 42	23 41	19 33		n.a.
F 6	22 20	10 38	4 11	17 5	1 32	25 5	1 40	10 40	0 42	18 8	1 6	21 47	1 1	23 14	0 32	0 6	1 52	2 0	13 57	23 42	23 41	19 35		n.a.
S 7	22 28	14 48	3 26	17 41	1 20	25 1	1 41	10 27	0 40	18 9	1 6	21 47	1 1	23 14	0 32	0 7	1 52	2 0	13 58	23 42	23 41	19 36		n.a.
S 8	22 36	18 23	2 33	18 18	1 8	24 56	1 41	10 14	0 39	18 9	1 7	21 47	1 1	23 15	0 32	0 7	1 52	1 59	13 58	23 42	23 41	19 38		n.a.
M 9	22 43	21 14	1 33	18 54	0 56	24 50	1 42	10 1	0 37	18 10	1 7	21 46	1 1	23 15	0 32	0 7	1 52	1 59	13 58	23 42	23 41	19 40		n.a.
T 10	22 50	23 10	0 29	19 30	0 44	24 43	1 42	9 48	0 36	18 10	1 7	21 46	1 1	23 15	0 32	0 8	1 52	1 59	13 58	23 42	23 41	19 42		n.a.
W11	22 56	24 4	0n36	20 6	0 32	24 36	1 43	9 35	0 35	18 11	1 8	21 45	1 1	23 15	0 32	0 8	1 52	1 59	13 58	23 42	23 41	19 44		n.a.
T 12	23 2	23 52	1 41	20 40	0 20	24 28	1 43	9 22	0 33	18 11	1 8	21 45	1 1	23 16	0 32	0 9	1 52	1 59	13 58	23 42	23 41	19 46		n.a.
F 13	23 8	22 33	2 42	21 14	0 8	24 19	1 44	9 8	0 32	18 12	1 8	21 44	1 1	23 16	0 32	0 9	1 52	1 58	13 59	23 42	23 41	19 48		n.a.
S 14	23 13	20 10	3 36	21 46	0n 4	24 10	1 44	8 55	0 31	18 13	1 9	21 44	1 1	23 16	0 32	0 9	1 52	1 58	13 59	23 42	23 41	19 50		n.a.
S 15	23 17	16 47	4 21	22 17	0 15	24 0	1 44	8 41	0 29	18 14	1 9	21 44	1 1	23 16	0 32	0 9	1 52	1 58	13 59	23 42	23 41	19 51		n.a.
M16	23 22	12 33	4 55	22 46	0 26	23 49	1 44	8 28	0 28	18 15	1 9	21 43	1 0	23 17	0 32	0 10	1 52	1 58	13 59	23 42	23 42	19 53		n.a.
T 17	23 26	7 38	5 14	23 13	0 36	23 37	1 44	8 14	0 27	18 15	1 9	21 43	1 0	23 17	0 32	0 10	1 52	1 58	13 59	23 42	23 42	19 55		n.a.
W18	23 29	2 13	5 16	23 37	0 46	23 25	1 44	8 0	0 26	18 16	1 10	21 42	1 0	23 17	0 32	0 10	1 52	1 58	14 0	23 42	23 42	19 57		n.a.
T 19	23 32	3s29	5 0	24 0	0 55	23 12	1 44	7 46	0 24	18 17	1 10	21 42	1 0	23 18	0 32	0 11	1 53	1 58	14 0	23 42	23 42	19 59		n.a.
F 20	23 35	9 10	4 25	24 20	1 3	22 59	1 44	7 32	0 23	18 19	1 10	21 41	1 0	23 18	0 32	0 11	1 53	1 58	14 0	23 42	23 42	20 1		n.a.
S 21	23 37	14 28	3 31	24 37	1 11	22 45	1 43	7 18	0 22	18 20	1 11	21 41	1 0	23 18	0 32	0 11	1 53	1 58	14 0	23 42	23 42	20 3		n.a.
S 22	23 39	18 59	2 23	24 51	1 18	22 30	1 43	7 3	0 21	18 21	1 11	21 41	1 0	23 18	0 32	0 11	1 53	1 57	14 0	23 42	23 42	20 4		n.a.
M23	23 41	22 16	1 4	25 3	1 24	22 15	1 42	6 49	0 19	18 22	1 11	21 40	1 0	23 19	0 32	0 11	1 53	1 57	14 1	23 42	23 42	20 6		n.a.
T 24	23 42	23 57	0s20	25 12	1 30	21 59	1 42	6 35	0 18	18 23	1 12	21 40	1 0	23 19	0 32	0 12	1 53	1 57	14 1	23 42	23 42	20 8		n.a.
W25	23 42	23 53	1 41	25 17	1 35	21 42	1 41	6 20	0 17	18 25	1 12	21 39	0 59	23 19	0 32	0 12	1 53	1 57	14 1	23 42	23 42	20 10		n.a.
T 26	23 42	22 9	2 54	25 21	1 39	21 25	1 41	6 6	0 16	18 26	1 12	21 39	0 59	23 19	0 32	0 12	1 53	1 57	14 1	23 42	23 42	20 12		n.a.
F 27	23 42	19 4	3 54	25 21	1 43	21 7	1 40	5 51	0 15	18 27	1 12	21 39	0 59	23 20	0 32	0 12	1 53	1 57	14 2	23 42	23 42	20 13		n.a.
S 28	23 42	15 0	4 38	25 19	1 45	20 49	1 39	5 36	0 13	18 29	1 13	21 38	0 59	23 20	0 32	0 12	1 53	1 57	14 2	23 42	23 42	20 15		n.a.
S 29	23 41	10 19	5 6	25 14	1 47	20 30	1 38	5 21	0 12	18 30	1 13	21 38	0 59	23 20	0 32	0 12	1 53	1 57	14 2	23 42	23 42	20 17		n.a.
M30	23n39	5s19	5s17	25n 7	1n49	20n11	1n37	5n 7	0n11	18s32	1s13	21s37	0n59	23s21	0s32	0n12	1s53	1s57	14s 2	23n42	23n42	20n19		n.a.

Julian Day Number = 1683953.5, Delta T = 03h14m00s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'54, Lahiri = - 5°21'54 Julian Calendar 1 June 103 BCE == Greg. Calendar 29 May 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

JULY 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 23 2	4♋48'07	11♈24	12♋17	8♌37	18♍14	12°R 0	12°R48	15°R20	4♈49	28♈50	1♋25	1♋12	9♊57	n.a.	T 1
W 2	18 26 58	5°45'28	23°40	14°15	9°49	18°49	11♒55	12♐44	15♑18	4°50	28°50	1°25	1° 9	10° 4	n.a.	W 2
T 3	18 30 55	6°42'51	5♉44	16°12	11° 0	19°25	11°50	12°41	15°15	4°50	28°51	1°25	1° 5	10°11	n.a.	T 3
F 4	18 34 51	7°40'15	17°38	18° 7	12°11	20° 0	11°45	12°37	15°13	4°50	28°51	1°26	1° 2	10°17	n.a.	F 4
S 5	18 38 48	8°37'40	29°27	20° 0	13°23	20°36	11°40	12°33	15°11	4°51	28°52	1°26	0°59	10°24	n.a.	S 5
S 6	18 42 44	9°35'06	11♊14	21°52	14°34	21°12	11°34	12°29	15° 8	4°51	28°53	1°27	0°56	10°31	n.a.	S 6
M 7	18 46 41	10°32'34	23° 3	23°42	15°45	21°49	11°29	12°26	15° 6	4°51	28°53	1°28	0°53	10°37	n.a.	M 7
T 8	18 50 37	11°30'03	4♋57	25°31	16°57	22°25	11°23	12°22	15° 3	4°51	28°54	1°R28	0°50	10°44	n.a.	T 8
W 9	18 54 34	12°27'33	16°57	27°18	18° 8	23° 1	11°17	12°19	15° 1	4°51	28°54	1°27	0°46	10°51	n.a.	W 9
T 10	18 58 31	13°25'04	29° 6	29° 4	19°19	23°38	11°11	12°15	14°59	4°51	28°55	1°26	0°43	10°57	n.a.	T 10
F 11	19 2 27	14°22'37	11♌25	0♌48	20°30	24°15	11° 5	12°12	14°56	4°51	28°55	1°25	0°40	11° 4	n.a.	F 11
S 12	19 6 24	15°20'10	23°56	2°30	21°41	24°52	10°59	12° 8	14°54	4°R51	28°56	1°23	0°37	11°11	n.a.	S 12
S 13	19 10 20	16°17'45	6♍41	4°11	22°52	25°29	10°52	12° 5	14°51	4°51	28°56	1°21	0°34	11°17	n.a.	S 13
M14	19 14 17	17°15'21	19°40	5°51	24° 3	26° 6	10°45	12° 2	14°49	4°51	28°56	1°19	0°31	11°24	n.a.	M14
T 15	19 18 13	18°12'57	2♎56	7°28	25°14	26°43	10°39	11°59	14°47	4°51	28°57	1°18	0°27	11°30	n.a.	T 15
W16	19 22 10	19°10'35	16°30	9° 5	26°25	27°21	10°32	11°56	14°44	4°51	28°57	1°D17	0°24	11°37	n.a.	W16
T 17	19 26 6	20° 8'14	0♏23	10°40	27°36	27°58	10°25	11°53	14°42	4°51	28°57	1°17	0°21	11°44	n.a.	T 17
F 18	19 30 3	21° 5'54	14°34	12°13	28°46	28°36	10°18	11°50	14°39	4°51	28°58	1°18	0°18	11°50	n.a.	F 18
S 19	19 34 0	22° 3'35	29° 2	13°45	29°57	29°14	10°11	11°47	14°37	4°51	28°58	1°20	0°15	11°57	n.a.	S 19
S 20	19 37 56	23° 1'18	13♐43	15°15	1♍ 8	29°52	10° 4	11°44	14°35	4°50	28°58	1°21	0°11	12° 4	n.a.	S 20
M21	19 41 53	23°59'02	28°33	16°44	2°18	0♎30	9°57	11°42	14°32	4°50	28°59	1°R21	0° 8	12°10	n.a.	M21
T 22	19 45 49	24°56'47	13♑24	18°11	3°28	1° 8	9°49	11°39	14°30	4°50	28°59	1°21	0° 5	12°17	n.a.	T 22
W23	19 49 46	25°54'34	28°10	19°37	4°39	1°46	9°42	11°36	14°28	4°49	28°59	1°20	0° 2	12°24	n.a.	W23
T 24	19 53 42	26°52'22	12♒43	21° 1	5°49	2°25	9°34	11°34	14°25	4°49	28°59	1°17	29♊59	12°30	n.a.	T 24
F 25	19 57 39	27°50'12	26°57	22°24	6°59	3° 3	9°27	11°32	14°23	4°49	29° 0	1°13	29°56	12°37	n.a.	F 25
S 26	20 1 35	28°48'03	10♓48	23°45	8°10	3°42	9°19	11°29	14°21	4°48	29° 0	1° 9	29°52	12°44	n.a.	S 26
S 27	20 5 32	29°45'56	24°12	25° 4	9°20	4°21	9°11	11°27	14°18	4°48	29° 0	1° 5	29°49	12°50	n.a.	S 27
M28	20 9 29	0♌43'51	7♈12	26°21	10°30	5° 0	9° 4	11°25	14°16	4°47	29° 0	1° 2	29°46	12°57	n.a.	M28
T 29	20 13 25	1°41'49	19°49	27°37	11°40	5°39	8°56	11°23	14°14	4°47	29° 0	1° 0	29°43	13° 4	n.a.	T 29
W30	20 17 22	2°39'48	2♉ 7	28°51	12°49	6°18	8°48	11°21	14°12	4°46	29° 0	1°D 0	29°40	13°10	n.a.	W30
T 31	20 21 18	3♌37'49	14♉10	0♍ 3	13♍59	6♎57	8♒40	11♐19	14♑ 9	4♈45	29♈ 0	1♋ 0	29♊37	13♊17	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	23n37	0s14	5s13	24n57	1n49	19n51	1n36	4n52	0n10	18s34	1s14	21s37	0n59	23s21	0s32	0n12	1s53	1s57	14s 2	23n42	23n42	20n21			n.a.
W 2	23 35	4n44	4 54	24 45	1 49	19 30	1 34	4 37	0 9	18 35	1 14	21 37	0 59	23 21	0 32	0 13	1 53	1 57	14 3	23 42	23 42	20 22			n.a.
T 3	23 32	9 27	4 23	24 31	1 49	19 9	1 33	4 21	0 8	18 37	1 14	21 36	0 59	23 21	0 32	0 13	1 53	1 57	14 3	23 42	23 42	20 24			n.a.
F 4	23 29	13 46	3 40	24 15	1 48	18 48	1 32	4 6	0 7	18 39	1 14	21 36	0 58	23 22	0 32	0 13	1 54	1 57	14 3	23 42	23 42	20 26			n.a.
S 5	23 25	17 31	2 49	23 57	1 46	18 26	1 30	3 51	0 6	18 40	1 15	21 35	0 58	23 22	0 32	0 13	1 54	1 57	14 3	23 42	23 42	20 28			n.a.
S 6	23 21	20 34	1 50	23 37	1 44	18 3	1 29	3 36	0 4	18 42	1 15	21 35	0 58	23 22	0 32	0 13	1 54	1 57	14 4	23 42	23 42	20 30			n.a.
M 7	23 17	22 45	0 46	23 15	1 41	17 40	1 27	3 20	0 3	18 44	1 15	21 35	0 58	23 23	0 32	0 13	1 54	1 57	14 4	23 42	23 42	20 31			n.a.
T 8	23 12	23 56	0n19	22 52	1 38	17 17	1 25	3 5	0 2	18 46	1 15	21 34	0 58	23 23	0 32	0 13	1 54	1 57	14 4	23 42	23 42	20 33			n.a.
W 9	23 7	24 1	1 25	22 28	1 34	16 53	1 23	2 49	0 1	18 48	1 16	21 34	0 58	23 23	0 32	0 13	1 54	1 57	14 4	23 42	23 42	20 35			n.a.
T 10	23 1	22 58	2 27	22 2	1 30	16 29	1 21	2 33	0 0	18 50	1 16	21 34	0 58	23 23	0 32	0 13	1 54	1 57	14 5	23 42	23 42	20 37			n.a.
F 11	22 55	20 48	3 24	21 35	1 25	16 4	1 19	2 18	0s 1	18 52	1 16	21 34	0 57	23 24	0 32	0 13	1 54	1 58	14 5	23 42	23 42	20 38			n.a.
S 12	22 49	17 38	4 11	21 7	1 20	15 39	1 17	2 2	0 2	18 54	1 16	21 33	0 57	23 24	0 32	0 13	1 54	1 58	14 5	23 42	23 42	20 40			n.a.
S 13	22 42	13 36	4 47	20 38	1 14	15 14	1 15	1 46	0 3	18 56	1 17	21 33	0 57	23 24	0 32	0 12	1 54	1 58	14 5	23 42	23 42	20 42			n.a.
M14	22 35	8 52	5 10	20 8	1 9	14 48	1 13	1 30	0 4	18 58	1 17	21 33	0 57	23 25	0 32	0 12	1 54	1 58	14 6	23 42	23 42	20 44			n.a.
T 15	22 27	3 38	5 16	19 37	1 3	14 22	1 11	1 15	0 5	19 0	1 17	21 32	0 57	23 25	0 32	0 12	1 54	1 58	14 6	23 42	23 42	20 45			n.a.
W16	22 19	1s52	5 5	19 5	0 56	13 55	1 8	0 59	0 6	19 2	1 17	21 32	0 57	23 25	0 32	0 12	1 54	1 58	14 6	23 42	23 42	20 47			n.a.
T 17	22 11	7 25	4 36	18 33	0 49	13 28	1 6	0 43	0 7	19 4	1 17	21 32	0 57	23 25	0 32	0 12	1 54	1 58	14 6	23 42	23 42	20 49			n.a.
F 18	22 2	12 43	3 50	18 0	0 42	13 1	1 3	0 26	0 8	19 6	1 18	21 32	0 56	23 26	0 32	0 12	1 54	1 58	14 7	23 42	23 42	20 51			n.a.
S 19	21 53	17 25	2 49	17 27	0 35	12 34	1 1	0 10	0 9	19 8	1 18	21 31	0 56	23 26	0 32	0 12	1 55	1 58	14 7	23 42	23 42	20 52			n.a.
S 20	21 43	21 7	1 36	16 53	0 27	12 6	0 58	0s 6	0 10	19 10	1 18	21 31	0 56	23 26	0 32	0 12	1 55	1 59	14 7	23 42	23 42	20 54			n.a.
M21	21 33	23 26	0 15	16 18	0 20	11 38	0 55	0 22	0 11	19 13	1 18	21 31	0 56	23 26	0 32	0 11	1 55	1 59	14 7	23 42	23 42	20 56			n.a.
T 22	21 23	24 7	1s 6	15 44	0 12	11 9	0 52	0 38	0 12	19 15	1 18	21 31	0 56	23 27	0 32	0 11	1 55	1 59	14 8	23 42	23 42	20 57			n.a.
W23	21 12	23 5	2 22	15 9	0 3	10 41	0 49	0 55	0 13	19 17	1 19	21 30	0 56	23 27	0 32	0 11	1 55	1 59	14 8	23 42	23 42	20 59			n.a.
T 24	21 1	20 30	3 28	14 34	0s 5	10 12	0 46	1 11	0 14	19 19	1 19	21 30	0 56	23 27	0 32	0 11	1 55	1 59	14 8	23 42	23 42	21 1			n.a.
F 25	20 50	16 43	4 20	13 59	0 14	9 43	0 43	1 27	0 15	19 21	1 19	21 30	0 55	23 27	0 32	0 11	1 55	1 59	14 9	23 42	23 42	21 2			n.a.
S 26	20 38	12 7	4 54	13 24	0 23	9 13	0 40	1 44	0 16	19 24	1 19	21 30	0 55	23 28	0 32	0 10	1 55	2 0	14 9	23 42	23 42	21 4			n.a.
S 27	20 26	7 5	5 11	12 49	0 31	8 44	0 37	2 0	0 17	19 26	1 19	21 30	0 55	23 28	0 32	0 10	1 55	2 0	14 9	23 42	23 42	21 6			n.a.
M28	20 13	1 52	5 12	12 14	0 41	8 14	0 33	2 16	0 18	19 28	1 19	21 30	0 55	23 28	0 32	0 10	1 55	2 0	14 9	23 42	23 42	21 8			n.a.
T 29	20 0	3n15	4 57	11 40	0 50	7 44	0 30	2 33	0 18	19 30	1 20	21 30	0 55	23 28	0 32	0 10	1 55	2 0	14 10	23 42	23 42	21 9			n.a.
W30	19 47	8 8	4 29	11 5	0 59	7 14	0 27	2 49	0 19	19 32	1 20	21 29	0 55	23 29	0 32	0 9	1 55	2 0	14 10	23 42	23 42	21 11			n.a.
T 31	19n34	12n37	3s49	10n31	1s 8	6n43	0n23	3s 6	0s20	19s35	1s20	21s29	0n55	23s29	0s32	0n 9	1s55	2s 1	14s10	23n42	23n42	21n13			n.a.

Julian Day Number = 1683983.5, Delta T = 03h13m59s
Ecliptic obliquity = 23°42'26, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'50, Lahiri = - 5°21'50 Julian Calendar 1 July 103 BCE == Greg. Calendar 28 June 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

AUGUST 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	20 25 15	4♌35'52	26♉ 3	1♍13	15♍ 9	7♎36	8°R32	11°R17	14°R 7	4°R45	29♈ 0	1♋ 2	29♊33	13♊24	n.a.	F 1
S 2	20 29 11	5°33'57	7♊51	2°21	16°19	8°16	8♒24	11♐16	14♑ 5	4♈44	29°R 0	1° 3	29°30	13°30	n.a.	S 2
S 3	20 33 8	6°32'04	19°39	3°27	17°28	8°55	8°16	11°14	14° 3	4°44	29° 0	1° 5	29°27	13°37	n.a.	S 3
M 4	20 37 4	7°30'13	1♋32	4°30	18°38	9°35	8° 9	11°13	14° 1	4°43	29° 0	1°R 5	29°24	13°44	n.a.	M 4
T 5	20 41 1	8°28'25	13°32	5°31	19°47	10°15	8° 1	11°11	13°59	4°42	29° 0	1° 5	29°21	13°50	n.a.	T 5
W 6	20 44 58	9°26'38	25°43	6°30	20°56	10°55	7°53	11°10	13°57	4°41	29° 0	1° 2	29°17	13°57	n.a.	W 6
T 7	20 48 54	10°24'53	8♌ 6	7°25	22° 6	11°35	7°45	11° 9	13°54	4°40	29° 0	0°58	29°14	14° 4	n.a.	T 7
F 8	20 52 51	11°23'10	20°43	8°18	23°15	12°15	7°37	11° 8	13°52	4°40	29° 0	0°52	29°11	14°10	n.a.	F 8
S 9	20 56 47	12°21'28	3♍33	9° 8	24°24	12°55	7°29	11° 7	13°50	4°39	29° 0	0°45	29° 8	14°17	n.a.	S 9
S 10	21 0 44	13°19'49	16°38	9°55	25°33	13°36	7°21	11° 6	13°48	4°38	29° 0	0°37	29° 5	14°23	n.a.	S 10
M11	21 4 40	14°18'11	29°55	10°38	26°42	14°16	7°13	11° 5	13°46	4°37	28°59	0°30	29° 2	14°30	n.a.	M11
T 12	21 8 37	15°16'35	13♎25	11°17	27°51	14°57	7° 5	11° 4	13°45	4°36	28°59	0°25	28°58	14°37	n.a.	T 12
W13	21 12 33	16°15'00	27° 6	11°52	28°59	15°38	6°58	11° 3	13°43	4°35	28°59	0°21	28°55	14°43	n.a.	W13
T 14	21 16 30	17°13'28	10♏58	12°23	0♎ 8	16°18	6°50	11° 3	13°41	4°34	28°59	0°D20	28°52	14°50	n.a.	T 14
F 15	21 20 27	18°11'57	25° 1	12°49	1°16	16°59	6°42	11° 2	13°39	4°33	28°58	0°20	28°49	14°57	n.a.	F 15
S 16	21 24 23	19°10'27	9♐13	13°10	2°25	17°40	6°35	11° 2	13°37	4°32	28°58	0°21	28°46	15° 3	n.a.	S 16
S 17	21 28 20	20° 9'00	23°33	13°26	3°33	18°21	6°27	11° 2	13°35	4°31	28°58	0°R22	28°43	15°10	n.a.	S 17
M18	21 32 16	21° 7'34	7♑58	13°36	4°41	19° 3	6°20	11° 2	13°34	4°30	28°58	0°22	28°39	15°17	n.a.	M18
T 19	21 36 13	22° 6'10	22°25	13°R40	5°49	19°44	6°12	11°D 1	13°32	4°29	28°57	0°20	28°36	15°23	n.a.	T 19
W20	21 40 9	23° 4'48	6♒49	13°38	6°57	20°25	6° 5	11° 1	13°30	4°28	28°57	0°15	28°33	15°30	n.a.	W20
T 21	21 44 6	24° 3'28	21° 5	13°29	8° 4	21° 7	5°58	11° 2	13°29	4°26	28°56	0° 9	28°30	15°37	n.a.	T 21
F 22	21 48 2	25° 2'10	5♓ 7	13°13	9°12	21°48	5°51	11° 2	13°27	4°25	28°56	0° 0	28°27	15°43	n.a.	F 22
S 23	21 51 59	26° 0'54	18°50	12°50	10°19	22°30	5°44	11° 2	13°25	4°24	28°56	29♊51	28°23	15°50	n.a.	S 23
S 24	21 55 55	26°59'40	2♈12	12°20	11°27	23°12	5°37	11° 3	13°24	4°23	28°55	29°42	28°20	15°57	n.a.	S 24
M25	21 59 52	27°58'28	15°11	11°43	12°34	23°54	5°30	11° 3	13°22	4°21	28°55	29°33	28°17	16° 3	n.a.	M25
T 26	22 3 49	28°57'19	27°48	10°59	13°41	24°35	5°24	11° 4	13°21	4°20	28°54	29°27	28°14	16°10	n.a.	T 26
W27	22 7 45	29°56'12	10♉ 7	10° 8	14°48	25°17	5°17	11° 4	13°19	4°19	28°54	29°22	28°11	16°16	n.a.	W27
T 28	22 11 42	0♍55'07	22°10	9°12	15°55	26° 0	5°11	11° 5	13°18	4°17	28°53	29°20	28° 8	16°23	n.a.	T 28
F 29	22 15 38	1°54'05	4♊ 4	8°11	17° 1	26°42	5° 4	11° 6	13°17	4°16	28°53	29°D20	28° 4	16°30	n.a.	F 29
S 30	22 19 35	2°53'05	15°52	7° 6	18° 8	27°24	4°58	11° 7	13°15	4°15	28°52	29°20	28° 1	16°36	n.a.	S 30
S 31	22 23 31	3♍52'08	27♊41	5♍58	19♎14	28♎ 7	4♒52	11♐ 8	13♑14	4♈13	28♈52	29°R21	27♊58	16♊43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	19n20	16n34	3s 0	9n57	1s18	6n13	0n20	3s22	0s21	19s37	1s20	21s29	0n54	23s29	0s32	0n 9	1s55	2s 1	14s10	23n42	23n42	21n14		n.a.
S 2	19 5	19 50	2 4	9 24	1 27	5 42	0 16	3 39	0 22	19 39	1 20	21 29	0 54	23 29	0 32	0 8	1 55	2 1	14 11	23 42	23 42	21 16		n.a.
S 3	18 51	22 16	1 2	8 51	1 37	5 12	0 12	3 56	0 23	19 41	1 20	21 29	0 54	23 30	0 32	0 8	1 55	2 1	14 11	23 42	23 42	21 18		n.a.
M 4	18 36	23 44	0n 2	8 19	1 46	4 41	0 8	4 12	0 24	19 44	1 20	21 29	0 54	23 30	0 32	0 8	1 56	2 2	14 11	23 42	23 42	21 19		n.a.
T 5	18 21	24 8	1 7	7 48	1 56	4 10	0 5	4 29	0 25	19 46	1 20	21 29	0 54	23 30	0 32	0 7	1 56	2 2	14 11	23 42	23 42	21 21		n.a.
W 6	18 5	23 22	2 10	7 17	2 5	3 39	0 1	4 45	0 26	19 48	1 21	21 29	0 54	23 30	0 32	0 7	1 56	2 2	14 12	23 42	23 42	21 23		n.a.
T 7	17 50	21 28	3 8	6 48	2 15	3 7	0s 3	5 2	0 26	19 50	1 21	21 29	0 53	23 30	0 32	0 7	1 56	2 3	14 12	23 42	23 42	21 24		n.a.
F 8	17 33	18 29	3 57	6 19	2 24	2 36	0 7	5 19	0 27	19 52	1 21	21 29	0 53	23 31	0 32	0 6	1 56	2 3	14 12	23 42	23 42	21 26		n.a.
S 9	17 17	14 35	4 35	5 52	2 34	2 5	0 11	5 35	0 28	19 54	1 21	21 29	0 53	23 31	0 32	0 6	1 56	2 3	14 13	23 42	23 42	21 27		n.a.
S 10	17 0	9 56	5 0	5 26	2 43	1 33	0 15	5 52	0 29	19 57	1 21	21 29	0 53	23 31	0 32	0 5	1 56	2 3	14 13	23 42	23 42	21 29		n.a.
M11	16 43	4 45	5 9	5 1	2 52	1 2	0 19	6 9	0 30	19 59	1 21	21 29	0 53	23 31	0 32	0 5	1 56	2 4	14 13	23 42	23 42	21 31		n.a.
T 12	16 26	0s44	5 1	4 38	3 0	0 31	0 23	6 25	0 30	20 1	1 21	21 29	0 53	23 31	0 32	0 5	1 56	2 4	14 13	23 42	23 42	21 32		n.a.
W13	16 9	6 16	4 36	4 17	3 9	0s 1	0 28	6 42	0 31	20 3	1 21	21 29	0 52	23 32	0 32	0 4	1 56	2 4	14 14	23 42	23 42	21 34		n.a.
T 14	15 51	11 34	3 55	3 58	3 17	0 32	0 32	6 58	0 32	20 5	1 21	21 29	0 52	23 32	0 32	0 4	1 56	2 5	14 14	23 42	23 42	21 35		n.a.
F 15	15 33	16 20	2 59	3 41	3 24	1 4	0 36	7 15	0 33	20 7	1 21	21 29	0 52	23 32	0 32	0 3	1 56	2 5	14 14	23 42	23 42	21 37		n.a.
S 16	15 14	20 14	1 52	3 26	3 31	1 35	0 41	7 32	0 34	20 9	1 21	21 29	0 52	23 32	0 32	0 3	1 56	2 5	14 14	23 42	23 42	21 39		n.a.
S 17	14 56	22 56	0 37	3 14	3 38	2 7	0 45	7 48	0 34	20 11	1 21	21 30	0 52	23 32	0 32	0 2	1 56	2 6	14 15	23 42	23 42	21 40		n.a.
M18	14 37	24 9	0s41	3 5	3 44	2 38	0 49	8 5	0 35	20 13	1 21	21 30	0 52	23 33	0 32	0 2	1 56	2 6	14 15	23 42	23 42	21 42		n.a.
T 19	14 18	23 43	1 56	2 58	3 49	3 9	0 54	8 21	0 36	20 14	1 21	21 30	0 51	23 33	0 32	0 1	1 56	2 6	14 15	23 42	23 42	21 43		n.a.
W20	13 59	21 43	3 3	2 55	3 53	3 41	0 58	8 38	0 37	20 16	1 21	21 30	0 51	23 33	0 32	0 1	1 56	2 7	14 15	23 42	23 42	21 45		n.a.
T 21	13 39	18 23	3 58	2 56	3 56	4 12	1 3	8 54	0 37	20 18	1 21	21 30	0 51	23 33	0 32	0 0	1 56	2 7	14 16	23 42	23 42	21 47		n.a.
F 22	13 19	14 2	4 37	3 0	3 58	4 43	1 7	9 11	0 38	20 20	1 21	21 30	0 51	23 33	0 32	0s 0	1 57	2 7	14 16	23 42	23 42	21 48		n.a.
S 23	12 59	9 3	5 0	3 8	3 59	5 14	1 12	9 27	0 39	20 22	1 21	21 31	0 51	23 33	0 32	0 1	1 57	2 8	14 16	23 42	23 42	21 50		n.a.
S 24	12 39	3 46	5 5	3 21	3 58	5 45	1 16	9 43	0 40	20 23	1 21	21 31	0 51	23 34	0 32	0 1	1 57	2 8	14 16	23 42	23 42	21 51		n.a.
M25	12 19	1n32	4 54	3 37	3 56	6 16	1 21	10 0	0 40	20 25	1 21	21 31	0 50	23 34	0 32	0 2	1 57	2 9	14 16	23 42	23 42	21 53		n.a.
T 26	11 58	6 38	4 29	3 58	3 51	6 46	1 26	10 16	0 41	20 27	1 21	21 31	0 50	23 34	0 32	0 2	1 57	2 9	14 17	23 42	23 42	21 54		n.a.
W27	11 37	11 21	3 52	4 23	3 45	7 17	1 30	10 32	0 42	20 28	1 21	21 32	0 50	23 34	0 32	0 3	1 57	2 9	14 17	23 42	23 42	21 56		n.a.
T 28	11 16	15 32	3 5	4 51	3 37	7 47	1 35	10 48	0 42	20 30	1 21	21 32	0 50	23 34	0 32	0 4	1 57	2 10	14 17	23 42	23 42	21 58		n.a.
F 29	10 55	19 3	2 11	5 24	3 27	8 17	1 39	11 5	0 43	20 31	1 21	21 32	0 50	23 34	0 32	0 4	1 57	2 10	14 17	23 42	23 42	21 59		n.a.
S 30	10 34	21 46	1 11	5 59	3 15	8 47	1 44	11 21	0 44	20 33	1 21	21 32	0 50	23 34	0 32	0 5	1 57	2 10	14 18	23 42	23 42	22 1		n.a.
S 31	10n12	23n32	0s 9	6n37	3s 1	9s17	1s49	11s37	0s44	20s34	1s21	21s33	0n50	23s34	0s32	0s 5	1s57	2s11	14s18	23n42	23n42	22n 2		n.a.

Julian Day Number = 1684014.5, Delta T = 03h13m58s
Ecliptic obliquity = 23°42'27, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'46, Lahiri = - 5°21'45 Julian Calendar 1 Aug. 103 BCE == Greg. Calendar 29 July 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

SEPTEMBER 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	22 27 28	4♍51'13	9♋36	4°R50	20♎20	28♎49	4°R46	11♐ 9	13°R13	4°R12	28°R51	29°R20	27♊55	16♊50	n.a.	M 1
T 2	22 31 24	5°50'20	21°41	3♍43	21°26	29°32	4♒41	11°11	13♑12	4♈11	28♈50	29♊18	27°52	16°56	n.a.	T 2
W 3	22 35 21	6°49'30	4♌ 1	2°39	22°32	0♏14	4°35	11°12	13°11	4° 9	28°50	29°13	27°48	17° 3	n.a.	W 3
T 4	22 39 18	7°48'42	16°37	1°40	23°37	0°57	4°30	11°14	13°10	4° 8	28°49	29° 5	27°45	17°10	n.a.	T 4
F 5	22 43 14	8°47'56	29°32	0°47	24°43	1°40	4°24	11°15	13° 9	4° 6	28°48	28°55	27°42	17°16	n.a.	F 5
S 6	22 47 11	9°47'12	12♍45	0° 1	25°48	2°23	4°19	11°17	13° 8	4° 5	28°48	28°44	27°39	17°23	n.a.	S 6
S 7	22 51 7	10°46'31	26°14	29♌25	26°53	3° 6	4°14	11°19	13° 7	4° 3	28°47	28°32	27°36	17°30	n.a.	S 7
M 8	22 55 4	11°45'51	9♎57	28°58	27°58	3°49	4° 9	11°21	13° 6	4° 2	28°46	28°21	27°33	17°36	n.a.	M 8
T 9	22 59 0	12°45'14	23°50	28°42	29° 3	4°32	4° 5	11°23	13° 5	4° 0	28°46	28°11	27°29	17°43	n.a.	T 9
W10	23 2 57	13°44'38	7♏49	28°D36	0♏ 7	5°15	4° 0	11°25	13° 4	3°59	28°45	28° 4	27°26	17°50	n.a.	W10
T 11	23 6 53	14°44'04	21°53	28°41	1°11	5°59	3°56	11°27	13° 3	3°57	28°44	28° 0	27°23	17°56	n.a.	T 11
F 12	23 10 50	15°43'33	5♐58	28°57	2°15	6°42	3°52	11°29	13° 3	3°55	28°43	27°58	27°20	18° 3	n.a.	F 12
S 13	23 14 46	16°43'03	20° 4	29°23	3°19	7°26	3°48	11°32	13° 2	3°54	28°43	27°58	27°17	18° 9	n.a.	S 13
S 14	23 18 43	17°42'35	4♑10	29°59	4°22	8° 9	3°44	11°34	13° 1	3°52	28°42	27°58	27°14	18°16	n.a.	S 14
M15	23 22 40	18°42'08	18°14	0♍43	5°26	8°53	3°41	11°37	13° 1	3°51	28°41	27°57	27°10	18°23	n.a.	M15
T 16	23 26 36	19°41'44	2♒17	1°36	6°29	9°37	3°37	11°39	13° 0	3°49	28°40	27°54	27° 7	18°29	n.a.	T 16
W17	23 30 33	20°41'21	16°14	2°36	7°31	10°21	3°34	11°42	13° 0	3°47	28°39	27°47	27° 4	18°36	n.a.	W17
T 18	23 34 29	21°41'01	0♓ 5	3°42	8°34	11° 4	3°31	11°45	12°59	3°46	28°38	27°38	27° 1	18°43	n.a.	T 18
F 19	23 38 26	22°40'42	13°44	4°55	9°36	11°48	3°29	11°48	12°59	3°44	28°38	27°27	26°58	18°49	n.a.	F 19
S 20	23 42 22	23°40'25	27°10	6°12	10°37	12°32	3°26	11°51	12°59	3°42	28°37	27°14	26°54	18°56	n.a.	S 20
S 21	23 46 19	24°40'10	10♈19	7°34	11°39	13°17	3°24	11°54	12°58	3°41	28°36	27° 0	26°51	19° 3	n.a.	S 21
M22	23 50 15	25°39'58	23°10	8°59	12°40	14° 1	3°21	11°57	12°58	3°39	28°35	26°48	26°48	19° 9	n.a.	M22
T 23	23 54 12	26°39'47	5♉42	10°28	13°41	14°45	3°19	12° 0	12°58	3°37	28°34	26°39	26°45	19°16	n.a.	T 23
W24	23 58 9	27°39'39	17°58	11°59	14°41	15°29	3°18	12° 3	12°58	3°36	28°33	26°31	26°42	19°23	n.a.	W24
T 25	0 2 5	28°39'34	0♊ 0	13°32	15°41	16°14	3°16	12° 7	12°58	3°34	28°32	26°27	26°39	19°29	n.a.	T 25
F 26	0 6 2	29°39'30	11°53	15° 7	16°41	16°58	3°15	12°10	12°D58	3°32	28°31	26°25	26°35	19°36	n.a.	F 26
S 27	0 9 58	0♎39'29	23°41	16°43	17°40	17°43	3°13	12°14	12°58	3°31	28°30	26°24	26°32	19°43	n.a.	S 27
S 28	0 13 55	1°39'30	5♋29	18°21	18°39	18°27	3°12	12°18	12°58	3°29	28°29	26°24	26°29	19°49	n.a.	S 28
M29	0 17 51	2°39'33	17°24	19°59	19°37	19°12	3°12	12°21	12°58	3°27	28°28	26°24	26°26	19°56	n.a.	M29
T 30	0 21 48	3♎39'39	29♋31	21♍38	20♏35	19♏57	3♒11	12♐25	12♑58	3♈26	28♈27	26♊21	26♊23	20♊ 2	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	9n50	24n16	0n54	7n16	2s46	9s47	1s53	11s53	0s45	20s36	1s21	21s33	0n49	23s34	0s32	0s 6	1s57	2s11	14s18	23n42	23n41	22n 4		n.a.
T 2	9 28	23 51	1 56	7 57	2 29	10 16	1 58	12 9	0 46	20 37	1 21	21 33	0 49	23 35	0 32	0 6	1 57	2 12	14 18	23 42	23 41	22 5		n.a.
W 3	9 6	22 17	2 54	8 37	2 10	10 45	2 3	12 24	0 46	20 38	1 21	21 34	0 49	23 35	0 32	0 7	1 57	2 12	14 18	23 42	23 41	22 7		n.a.
T 4	8 44	19 35	3 44	9 17	1 51	11 14	2 7	12 40	0 47	20 40	1 21	21 34	0 49	23 35	0 32	0 8	1 57	2 13	14 19	23 42	23 41	22 8		n.a.
F 5	8 22	15 52	4 23	9 55	1 31	11 43	2 12	12 56	0 48	20 41	1 21	21 35	0 49	23 35	0 32	0 8	1 57	2 13	14 19	23 42	23 41	22 10		n.a.
S 6	7 59	11 18	4 50	10 30	1 10	12 11	2 16	13 11	0 48	20 42	1 21	21 35	0 49	23 35	0 32	0 9	1 57	2 13	14 19	23 42	23 41	22 11		n.a.
S 7	7 36	6 7	5 1	11 1	0 50	12 40	2 21	13 27	0 49	20 43	1 21	21 35	0 48	23 35	0 32	0 10	1 57	2 14	14 19	23 42	23 41	22 13		n.a.
M 8	7 14	0 32	4 56	11 29	0 31	13 8	2 25	13 42	0 50	20 44	1 20	21 36	0 48	23 35	0 32	0 10	1 57	2 14	14 19	23 42	23 41	22 14		n.a.
T 9	6 51	5s 8	4 32	11 53	0 12	13 35	2 30	13 58	0 50	20 45	1 20	21 36	0 48	23 35	0 32	0 11	1 57	2 15	14 20	23 42	23 41	22 16		n.a.
W10	6 28	10 36	3 53	12 11	0n 6	14 3	2 34	14 13	0 51	20 46	1 20	21 37	0 48	23 35	0 32	0 12	1 57	2 15	14 20	23 42	23 41	22 17		n.a.
T 11	6 5	15 34	2 59	12 25	0 23	14 30	2 39	14 28	0 51	20 47	1 20	21 37	0 48	23 35	0 32	0 12	1 57	2 15	14 20	23 42	23 41	22 19		n.a.
F 12	5 41	19 41	1 54	12 34	0 39	14 56	2 43	14 43	0 52	20 48	1 20	21 38	0 48	23 35	0 32	0 13	1 57	2 16	14 20	23 42	23 41	22 20		n.a.
S 13	5 18	22 38	0 42	12 38	0 53	15 23	2 48	14 58	0 53	20 49	1 20	21 38	0 47	23 35	0 32	0 13	1 57	2 16	14 20	23 42	23 41	22 22		n.a.
S 14	4 55	24 11	0s33	12 38	1 6	15 49	2 52	15 13	0 53	20 50	1 20	21 39	0 47	23 35	0 32	0 14	1 57	2 17	14 21	23 42	23 41	22 23		n.a.
M15	4 31	24 11	1 45	12 32	1 17	16 15	2 56	15 28	0 54	20 50	1 20	21 39	0 47	23 35	0 32	0 15	1 57	2 17	14 21	23 41	23 41	22 24		n.a.
T 16	4 7	22 39	2 51	12 23	1 27	16 40	3 1	15 43	0 54	20 51	1 20	21 40	0 47	23 35	0 32	0 15	1 57	2 18	14 21	23 41	23 41	22 26		n.a.
W17	3 44	19 44	3 46	12 9	1 35	17 5	3 5	15 57	0 55	20 52	1 20	21 40	0 47	23 36	0 32	0 16	1 57	2 18	14 21	23 41	23 40	22 27		n.a.
T 18	3 20	15 43	4 27	11 51	1 43	17 30	3 9	16 12	0 55	20 52	1 19	21 41	0 47	23 36	0 32	0 17	1 57	2 19	14 21	23 41	23 40	22 29		n.a.
F 19	2 56	10 56	4 52	11 30	1 49	17 54	3 13	16 26	0 56	20 53	1 19	21 41	0 47	23 36	0 32	0 17	1 57	2 19	14 21	23 41	23 40	22 30		n.a.
S 20	2 32	5 43	5 0	11 5	1 53	18 17	3 17	16 40	0 56	20 53	1 19	21 42	0 46	23 36	0 32	0 18	1 57	2 19	14 22	23 41	23 40	22 32		n.a.
S 21	2 8	0 21	4 52	10 38	1 57	18 41	3 21	16 54	0 57	20 54	1 19	21 42	0 46	23 36	0 32	0 19	1 57	2 20	14 22	23 40	23 40	22 33		n.a.
M22	1 44	4n56	4 30	10 8	1 59	19 4	3 25	17 8	0 57	20 54	1 19	21 43	0 46	23 36	0 32	0 20	1 57	2 20	14 22	23 40	23 40	22 35		n.a.
T 23	1 20	9 53	3 54	9 35	2 1	19 26	3 29	17 22	0 58	20 54	1 19	21 43	0 46	23 36	0 32	0 20	1 57	2 21	14 22	23 40	23 40	22 36		n.a.
W24	0 56	14 22	3 8	9 1	2 2	19 48	3 33	17 35	0 58	20 55	1 19	21 44	0 46	23 36	0 32	0 21	1 57	2 21	14 22	23 40	23 40	22 37		n.a.
T 25	0 32	18 11	2 15	8 25	2 2	20 10	3 36	17 49	0 59	20 55	1 18	21 45	0 46	23 36	0 32	0 22	1 57	2 22	14 22	23 40	23 40	22 39		n.a.
F 26	0 8	21 12	1 16	7 47	2 1	20 31	3 40	18 2	0 59	20 55	1 18	21 45	0 46	23 36	0 32	0 22	1 57	2 22	14 22	23 40	23 40	22 40		n.a.
S 27	0s16	23 19	0 14	7 8	1 59	20 52	3 44	18 15	1 0	20 55	1 18	21 46	0 45	23 36	0 32	0 23	1 57	2 23	14 22	23 39	23 40	22 42		n.a.
S 28	0 40	24 24	0n48	6 27	1 57	21 12	3 47	18 29	1 0	20 55	1 18	21 46	0 45	23 35	0 32	0 24	1 57	2 23	14 23	23 39	23 40	22 43		n.a.
M29	1 4	24 22	1 49	5 46	1 54	21 31	3 50	18 41	1 1	20 55	1 18	21 47	0 45	23 35	0 32	0 24	1 57	2 23	14 23	23 39	23 40	22 44		n.a.
T 30	1s28	23n11	2n46	5n 3	1n51	21s51	3s53	18s54	1s 1	20s55	1s18	21s48	0n45	23s35	0s32	0s25	1s57	2s24	14s23	23n39	23n39	22n46		n.a.

Julian Day Number = 1684045.5, Delta T = 03h13m57s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'42, Lahiri = - 5°21'41 Julian Calendar 1 Sept. 103 BCE == Greg. Calendar 29 Aug. 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

OCTOBER 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	0 25 44	4♎39'46	11♌54	23♍17	21♏33	20♏41	3°R11	12♐29	12♑59	3°R24	28°R26	26°R16	26♊20	20♊ 9	n.a.	W 1
T 2	0 29 41	5°39'56	24°38	24°56	22°30	21°26	3°D11	12°33	12°59	3♈22	28♈25	26♊ 9	26°16	20°16	n.a.	T 2
F 3	0 33 38	6°40'08	7♍44	26°36	23°27	22°11	3♒11	12°37	12°59	3°21	28°24	25°59	26°13	20°22	n.a.	F 3
S 4	0 37 34	7°40'22	21°14	28°15	24°23	22°56	3°11	12°41	13° 0	3°19	28°23	25°47	26°10	20°29	n.a.	S 4
S 5	0 41 31	8°40'38	5♎ 5	29°55	25°18	23°41	3°11	12°46	13° 0	3°17	28°22	25°35	26° 7	20°36	n.a.	S 5
M 6	0 45 27	9°40'56	19°13	1♎34	26°14	24°26	3°12	12°50	13° 1	3°16	28°21	25°23	26° 4	20°42	n.a.	M 6
T 7	0 49 24	10°41'16	3♏33	3°13	27° 8	25°12	3°13	12°54	13° 1	3°14	28°20	25°13	26° 0	20°49	n.a.	T 7
W 8	0 53 20	11°41'37	17°59	4°52	28° 2	25°57	3°14	12°59	13° 2	3°12	28°19	25° 5	25°57	20°56	n.a.	W 8
T 9	0 57 17	12°42'00	2♐25	6°31	28°55	26°42	3°15	13° 3	13° 2	3°10	28°18	25° 1	25°54	21° 2	n.a.	T 9
F 10	1 1 13	13°42'25	16°47	8° 9	29°48	27°28	3°17	13° 8	13° 3	3° 9	28°16	24°59	25°51	21° 9	n.a.	F 10
S 11	1 5 10	14°42'51	1♑ 1	9°47	0♐40	28°13	3°18	13°13	13° 4	3° 7	28°15	24°D59	25°48	21°16	n.a.	S 11
S 12	1 9 7	15°43'18	15° 5	11°25	1°31	28°59	3°20	13°17	13° 5	3° 6	28°14	24°R59	25°45	21°22	n.a.	S 12
M13	1 13 3	16°43'47	29° 1	13° 2	2°22	29°44	3°22	13°22	13° 5	3° 4	28°13	24°59	25°41	21°29	n.a.	M13
T 14	1 17 0	17°44'18	12♒46	14°39	3°12	0♐30	3°25	13°27	13° 6	3° 2	28°12	24°56	25°38	21°36	n.a.	T 14
W15	1 20 56	18°44'49	26°22	16°16	4° 1	1°15	3°27	13°32	13° 7	3° 1	28°11	24°51	25°35	21°42	n.a.	W15
T 16	1 24 53	19°45'22	9♓48	17°53	4°49	2° 1	3°30	13°37	13° 8	2°59	28°10	24°43	25°32	21°49	n.a.	T 16
F 17	1 28 49	20°45'57	23° 2	19°29	5°37	2°47	3°33	13°42	13° 9	2°57	28° 9	24°33	25°29	21°55	n.a.	F 17
S 18	1 32 46	21°46'33	6♈ 5	21° 5	6°23	3°33	3°36	13°48	13°10	2°56	28° 8	24°22	25°25	22° 2	n.a.	S 18
S 19	1 36 42	22°47'10	18°54	22°40	7° 9	4°18	3°39	13°53	13°12	2°54	28° 6	24°10	25°22	22° 9	n.a.	S 19
M20	1 40 39	23°47'49	1♉30	24°16	7°53	5° 4	3°42	13°58	13°13	2°53	28° 5	23°59	25°19	22°15	n.a.	M20
T 21	1 44 35	24°48'30	13°51	25°51	8°37	5°50	3°46	14° 3	13°14	2°51	28° 4	23°51	25°16	22°22	n.a.	T 21
W22	1 48 32	25°49'12	26° 1	27°26	9°19	6°36	3°50	14° 9	13°15	2°50	28° 3	23°44	25°13	22°29	n.a.	W22
T 23	1 52 29	26°49'56	7♊59	29° 0	10° 1	7°22	3°54	14°14	13°17	2°48	28° 2	23°40	25°10	22°35	n.a.	T 23
F 24	1 56 25	27°50'41	19°49	0♏35	10°41	8° 8	3°58	14°20	13°18	2°47	28° 1	23°D39	25° 6	22°42	n.a.	F 24
S 25	2 0 22	28°51'28	1♋36	2° 9	11°20	8°54	4° 2	14°25	13°20	2°45	28° 0	23°39	25° 3	22°49	n.a.	S 25
S 26	2 4 18	29°52'17	13°24	3°43	11°58	9°41	4° 7	14°31	13°21	2°44	27°59	23°40	25° 0	22°55	n.a.	S 26
M27	2 8 15	0♏53'07	25°17	5°17	12°35	10°27	4°12	14°37	13°23	2°42	27°57	23°R41	24°57	23° 2	n.a.	M27
T 28	2 12 11	1°53'59	7♌22	6°51	13°10	11°13	4°17	14°43	13°24	2°41	27°56	23°41	24°54	23° 9	n.a.	T 28
W29	2 16 8	2°54'52	19°43	8°25	13°44	11°59	4°22	14°48	13°26	2°39	27°55	23°39	24°51	23°15	n.a.	W29
T 30	2 20 4	3°55'47	2♍26	9°58	14°17	12°46	4°27	14°54	13°28	2°38	27°54	23°36	24°47	23°22	n.a.	T 30
F 31	2 24 1	4♏56'43	15♍34	11♏32	14♐48	13♐32	4♒33	15♐ 0	13♑29	2♈37	27♈53	23♊30	24♊44	23♊28	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl		lat
W 1	1s52	20n52	3n36	4n20	1n47	22s 9	3s57	19s 7	1s 2	20s55	1s18	21s48	0n45	23s35	0s32	0s26	1s57	2s24	14s23	23n39	23n39	22n47			n.a.
T 2	2 16	17 29	4 17	3 37	1 43	22 27	4 0	19 19	1 2	20 55	1 17	21 49	0 45	23 35	0 31	0 26	1 57	2 25	14 23	23 39	23 39	22 48			n.a.
F 3	2 41	13 10	4 46	2 53	1 39	22 45	4 2	19 31	1 2	20 55	1 17	21 50	0 45	23 35	0 31	0 27	1 57	2 25	14 23	23 39	23 39	22 50			n.a.
S 4	3 5	8 6	5 0	2 8	1 34	23 2	4 5	19 44	1 3	20 55	1 17	21 50	0 44	23 35	0 31	0 28	1 57	2 26	14 23	23 38	23 39	22 51			n.a.
S 5	3 29	2 30	4 57	1 24	1 29	23 18	4 8	19 55	1 3	20 55	1 17	21 51	0 44	23 35	0 31	0 28	1 57	2 26	14 23	23 38	23 39	22 53			n.a.
M 6	3 53	3s21	4 36	0 39	1 24	23 34	4 10	20 7	1 4	20 54	1 17	21 52	0 44	23 35	0 31	0 29	1 57	2 26	14 23	23 38	23 39	22 54			n.a.
T 7	4 17	9 8	3 57	0s 6	1 18	23 50	4 13	20 19	1 4	20 54	1 17	21 52	0 44	23 35	0 31	0 30	1 57	2 27	14 23	23 37	23 39	22 55			n.a.
W 8	4 40	14 27	3 3	0 51	1 13	24 5	4 15	20 30	1 4	20 53	1 16	21 53	0 44	23 35	0 31	0 30	1 57	2 27	14 23	23 37	23 39	22 57			n.a.
T 9	5 4	18 58	1 57	1 36	1 7	24 19	4 17	20 41	1 5	20 53	1 16	21 54	0 44	23 35	0 31	0 31	1 57	2 28	14 23	23 37	23 39	22 58			n.a.
F 10	5 28	22 19	0 44	2 21	1 1	24 33	4 19	20 52	1 5	20 52	1 16	21 55	0 44	23 35	0 31	0 32	1 57	2 28	14 24	23 37	23 39	22 59			n.a.
S 11	5 52	24 14	0s32	3 5	0 54	24 46	4 21	21 3	1 5	20 52	1 16	21 55	0 43	23 35	0 31	0 32	1 57	2 29	14 24	23 37	23 38	23 1			n.a.
S 12	6 15	24 35	1 45	3 50	0 48	24 58	4 22	21 13	1 6	20 51	1 16	21 56	0 43	23 35	0 31	0 33	1 57	2 29	14 24	23 37	23 38	23 2			n.a.
M13	6 39	23 22	2 51	4 34	0 42	25 10	4 24	21 24	1 6	20 51	1 16	21 57	0 43	23 34	0 31	0 34	1 57	2 29	14 24	23 37	23 38	23 3			n.a.
T 14	7 2	20 46	3 46	5 18	0 35	25 22	4 25	21 34	1 6	20 50	1 15	21 57	0 43	23 34	0 31	0 34	1 57	2 30	14 24	23 37	23 38	23 4			n.a.
W15	7 25	17 3	4 27	6 2	0 29	25 32	4 26	21 44	1 7	20 49	1 15	21 58	0 43	23 34	0 31	0 35	1 57	2 30	14 24	23 36	23 38	23 6			n.a.
T 16	7 49	12 30	4 53	6 45	0 22	25 42	4 27	21 54	1 7	20 48	1 15	21 59	0 43	23 34	0 31	0 36	1 57	2 31	14 24	23 36	23 38	23 7			n.a.
F 17	8 12	7 25	5 3	7 28	0 16	25 52	4 27	22 3	1 7	20 48	1 15	22 0	0 43	23 34	0 31	0 36	1 57	2 31	14 24	23 36	23 38	23 8			n.a.
S 18	8 35	2 6	4 57	8 10	0 9	26 1	4 28	22 12	1 8	20 47	1 15	22 0	0 43	23 34	0 31	0 37	1 57	2 31	14 24	23 35	23 38	23 10			n.a.
S 19	8 58	3n14	4 36	8 53	0 2	26 9	4 28	22 21	1 8	20 46	1 15	22 1	0 42	23 34	0 31	0 37	1 57	2 32	14 24	23 35	23 38	23 11			n.a.
M20	9 20	8 21	4 2	9 34	0s 4	26 17	4 28	22 30	1 8	20 45	1 14	22 2	0 42	23 34	0 31	0 38	1 57	2 32	14 24	23 34	23 37	23 12			n.a.
T 21	9 43	13 3	3 16	10 16	0 11	26 24	4 28	22 39	1 9	20 44	1 14	22 3	0 42	23 33	0 31	0 39	1 57	2 33	14 24	23 34	23 37	23 13			n.a.
W22	10 5	17 10	2 23	10 56	0 17	26 30	4 27	22 47	1 9	20 43	1 14	22 4	0 42	23 33	0 31	0 39	1 57	2 33	14 24	23 33	23 37	23 15			n.a.
T 23	10 27	20 31	1 23	11 37	0 24	26 36	4 27	22 55	1 9	20 42	1 14	22 4	0 42	23 33	0 31	0 40	1 57	2 33	14 24	23 33	23 37	23 16			n.a.
F 24	10 49	22 58	0 21	12 16	0 30	26 41	4 26	23 3	1 9	20 40	1 14	22 5	0 42	23 33	0 31	0 40	1 57	2 34	14 24	23 33	23 37	23 17			n.a.
S 25	11 11	24 25	0n43	12 55	0 36	26 45	4 25	23 11	1 10	20 39	1 14	22 6	0 42	23 33	0 31	0 41	1 57	2 34	14 24	23 33	23 37	23 19			n.a.
S 26	11 33	24 45	1 44	13 34	0 43	26 49	4 23	23 18	1 10	20 38	1 13	22 7	0 42	23 33	0 31	0 41	1 57	2 34	14 24	23 33	23 37	23 20			n.a.
M27	11 55	23 58	2 42	14 12	0 49	26 52	4 21	23 25	1 10	20 37	1 13	22 7	0 41	23 32	0 31	0 42	1 57	2 35	14 24	23 33	23 37	23 21			n.a.
T 28	12 16	22 4	3 33	14 49	0 55	26 55	4 19	23 32	1 10	20 35	1 13	22 8	0 41	23 32	0 31	0 43	1 57	2 35	14 23	23 33	23 36	23 22			n.a.
W29	12 37	19 7	4 16	15 26	1 1	26 57	4 17	23 39	1 10	20 34	1 13	22 9	0 41	23 32	0 31	0 43	1 57	2 35	14 23	23 33	23 36	23 23			n.a.
T 30	12 58	15 11	4 48	16 1	1 7	26 58	4 14	23 45	1 11	20 32	1 13	22 10	0 41	23 32	0 31	0 44	1 57	2 36	14 23	23 33	23 36	23 25			n.a.
F 31	13s19	10n26	5n 5	16s36	1s12	26s59	4s11	23s51	1s11	20s31	1s13	22s10	0n41	23s32	0s31	0s44	1s57	2s36	14s23	23n33	23n36	23n26			n.a.

Julian Day Number = 1684075.5, Delta T = 03h13m56s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'37, Lahiri = - 5°21'37 Julian Calendar 1 Oct. 103 BCE == Greg. Calendar 28 Sept. 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

NOVEMBER 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 58	5♏57'41	29♍ 8	13♏ 5	15♐18	14♐19	4♒38	15♐ 6	13♑31	2°R35	27°R52	23°R23	24♊41	23♊35	n.a.	S 1
S 2	2 31 54	6°58'40	13♎ 9	14°39	15°45	15° 5	4°44	15°12	13°33	2♈34	27♈51	23♊15	24°38	23°42	n.a.	S 2
M 3	2 35 51	7°59'40	27°33	16°12	16°12	15°52	4°50	15°18	13°35	2°33	27°50	23° 7	24°35	23°48	n.a.	M 3
T 4	2 39 47	9° 0'42	12♏15	17°45	16°36	16°38	4°56	15°24	13°37	2°31	27°48	23° 0	24°31	23°55	n.a.	T 4
W 5	2 43 44	10° 1'44	27° 6	19°18	16°59	17°25	5° 3	15°31	13°39	2°30	27°47	22°56	24°28	24° 2	n.a.	W 5
T 6	2 47 40	11° 2'48	11♐58	20°51	17°20	18°11	5° 9	15°37	13°41	2°29	27°46	22°53	24°25	24° 8	n.a.	T 6
F 7	2 51 37	12° 3'52	26°44	22°24	17°39	18°58	5°16	15°43	13°43	2°28	27°45	22°D53	24°22	24°15	n.a.	F 7
S 8	2 55 33	13° 4'58	11♑19	23°57	17°55	19°45	5°23	15°49	13°45	2°26	27°44	22°54	24°19	24°22	n.a.	S 8
S 9	2 59 30	14° 6'03	25°37	25°30	18°10	20°31	5°30	15°56	13°47	2°25	27°43	22°55	24°16	24°28	n.a.	S 9
M10	3 3 27	15° 7'10	9♒37	27° 3	18°23	21°18	5°37	16° 2	13°49	2°24	27°42	22°R56	24°12	24°35	n.a.	M10
T 11	3 7 23	16° 8'16	23°19	28°36	18°33	22° 5	5°44	16° 9	13°51	2°23	27°41	22°56	24° 9	24°42	n.a.	T 11
W12	3 11 20	17° 9'24	6♓45	0♐ 8	18°42	22°52	5°52	16°15	13°54	2°22	27°40	22°55	24° 6	24°48	n.a.	W12
T 13	3 15 16	18°10'31	19°54	1°40	18°47	23°39	6° 0	16°21	13°56	2°21	27°39	22°51	24° 3	24°55	n.a.	T 13
F 14	3 19 13	19°11'39	2♈48	3°12	18°51	24°26	6° 7	16°28	13°58	2°20	27°38	22°46	24° 0	25° 1	n.a.	F 14
S 15	3 23 9	20°12'48	15°30	4°44	18°R52	25°12	6°15	16°35	14° 1	2°19	27°37	22°41	23°57	25° 8	n.a.	S 15
S 16	3 27 6	21°13'57	27°59	6°15	18°51	25°59	6°23	16°41	14° 3	2°18	27°36	22°35	23°53	25°15	n.a.	S 16
M17	3 31 3	22°15'07	10♉18	7°46	18°47	26°46	6°32	16°48	14° 5	2°17	27°35	22°29	23°50	25°21	n.a.	M17
T 18	3 34 59	23°16'17	22°26	9°16	18°40	27°33	6°40	16°54	14° 8	2°16	27°33	22°25	23°47	25°28	n.a.	T 18
W19	3 38 56	24°17'28	4♊26	10°45	18°31	28°20	6°49	17° 1	14°10	2°15	27°32	22°22	23°44	25°35	n.a.	W19
T 20	3 42 52	25°18'39	16°19	12°14	18°20	29° 7	6°57	17° 8	14°13	2°14	27°32	22°21	23°41	25°41	n.a.	T 20
F 21	3 46 49	26°19'51	28° 7	13°41	18° 6	29°54	7° 6	17°15	14°15	2°13	27°31	22°D21	23°37	25°48	n.a.	F 21
S 22	3 50 45	27°21'03	9♋54	15° 7	17°50	0♑41	7°15	17°21	14°18	2°12	27°30	22°22	23°34	25°55	n.a.	S 22
S 23	3 54 42	28°22'16	21°42	16°32	17°31	1°28	7°24	17°28	14°21	2°12	27°29	22°23	23°31	26° 1	n.a.	S 23
M24	3 58 38	29°23'30	3♌36	17°55	17°10	2°15	7°33	17°35	14°23	2°11	27°28	22°25	23°28	26° 8	n.a.	M24
T 25	4 2 35	0♐24'44	15°39	19°15	16°46	3° 2	7°43	17°42	14°26	2°10	27°27	22°27	23°25	26°15	n.a.	T 25
W26	4 6 32	1°25'58	27°58	20°33	16°21	3°50	7°52	17°49	14°29	2° 9	27°26	22°R27	23°22	26°21	n.a.	W26
T 27	4 10 28	2°27'13	10♍35	21°48	15°53	4°37	8° 2	17°56	14°32	2° 9	27°25	22°27	23°18	26°28	n.a.	T 27
F 28	4 14 25	3°28'29	23°36	23° 0	15°24	5°24	8°12	18° 3	14°35	2° 8	27°24	22°26	23°15	26°35	n.a.	F 28
S 29	4 18 21	4°29'45	7♎ 4	24° 7	14°53	6°11	8°22	18°10	14°37	2° 8	27°23	22°24	23°12	26°41	n.a.	S 29
S 30	4 22 18	5♐31'01	21♎ 0	25♐ 9	14♐21	6♑58	8♒32	18♐17	14♑40	2♈ 7	27♈22	22♊22	23♊ 9	26♊48	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s39	5n 1	5n 7	17s11	1s18	26s59	4s 7	23s57	1s11	20s29	1s12	22s11	0n41	23s31	0s31	0s45	1s57	2s36	14s23	23n32	23n36	23n27		n.a.
S 2	14 0	0s48	4 50	17 44	1 23	26 58	4 4	24 3	1 11	20 28	1 12	22 12	0 41	23 31	0 31	0 45	1 57	2 37	14 23	23 32	23 36	23 28		n.a.
M 3	14 20	6 46	4 15	18 17	1 29	26 57	3 59	24 8	1 11	20 26	1 12	22 13	0 41	23 31	0 31	0 46	1 57	2 37	14 23	23 32	23 36	23 30		n.a.
T 4	14 40	12 29	3 22	18 49	1 34	26 55	3 55	24 13	1 12	20 24	1 12	22 14	0 41	23 31	0 31	0 46	1 57	2 37	14 23	23 31	23 36	23 31		n.a.
W 5	14 59	17 32	2 15	19 20	1 39	26 53	3 50	24 18	1 12	20 23	1 12	22 14	0 40	23 31	0 31	0 47	1 57	2 38	14 23	23 31	23 35	23 32		n.a.
T 6	15 19	21 30	0 59	19 50	1 43	26 49	3 45	24 22	1 12	20 21	1 12	22 15	0 40	23 30	0 31	0 47	1 57	2 38	14 23	23 31	23 35	23 33		n.a.
F 7	15 38	24 1	0s21	20 18	1 48	26 46	3 39	24 26	1 12	20 19	1 12	22 16	0 40	23 30	0 31	0 48	1 57	2 38	14 23	23 31	23 35	23 34		n.a.
S 8	15 56	24 51	1 39	20 46	1 52	26 41	3 33	24 30	1 12	20 17	1 11	22 17	0 40	23 30	0 31	0 48	1 57	2 39	14 23	23 31	23 35	23 35		n.a.
S 9	16 15	24 1	2 49	21 13	1 56	26 36	3 26	24 34	1 12	20 15	1 11	22 18	0 40	23 30	0 31	0 48	1 57	2 39	14 23	23 31	23 35	23 37		n.a.
M10	16 33	21 41	3 47	21 39	1 59	26 30	3 19	24 37	1 12	20 13	1 11	22 18	0 40	23 29	0 31	0 49	1 57	2 39	14 22	23 31	23 35	23 38		n.a.
T 11	16 51	18 9	4 31	22 4	2 3	26 23	3 12	24 40	1 12	20 11	1 11	22 19	0 40	23 29	0 31	0 49	1 57	2 39	14 22	23 31	23 35	23 39		n.a.
W12	17 9	13 46	5 0	22 27	2 6	26 16	3 3	24 43	1 13	20 9	1 11	22 20	0 40	23 29	0 31	0 50	1 56	2 40	14 22	23 31	23 34	23 40		n.a.
T 13	17 26	8 48	5 11	22 49	2 8	26 8	2 55	24 46	1 13	20 7	1 11	22 21	0 40	23 29	0 31	0 50	1 56	2 40	14 22	23 31	23 34	23 41		n.a.
F 14	17 43	3 34	5 7	23 10	2 10	25 59	2 46	24 48	1 13	20 5	1 10	22 21	0 40	23 28	0 31	0 50	1 56	2 40	14 22	23 30	23 34	23 42		n.a.
S 15	18 0	1n45	4 48	23 29	2 12	25 50	2 36	24 50	1 13	20 3	1 10	22 22	0 39	23 28	0 31	0 51	1 56	2 40	14 22	23 30	23 34	23 43		n.a.
S 16	18 16	6 55	4 15	23 47	2 14	25 40	2 26	24 52	1 13	20 1	1 10	22 23	0 39	23 28	0 31	0 51	1 56	2 40	14 22	23 30	23 34	23 45		n.a.
M17	18 32	11 45	3 30	24 4	2 15	25 29	2 16	24 53	1 13	19 59	1 10	22 24	0 39	23 28	0 31	0 51	1 56	2 41	14 21	23 30	23 34	23 46		n.a.
T 18	18 48	16 3	2 37	24 19	2 15	25 17	2 5	24 54	1 13	19 56	1 10	22 24	0 39	23 27	0 31	0 52	1 56	2 41	14 21	23 29	23 34	23 47		n.a.
W19	19 3	19 41	1 37	24 32	2 15	25 5	1 53	24 55	1 13	19 54	1 10	22 25	0 39	23 27	0 31	0 52	1 56	2 41	14 21	23 29	23 33	23 48		n.a.
T 20	19 18	22 27	0 33	24 44	2 15	24 52	1 41	24 55	1 13	19 52	1 10	22 26	0 39	23 27	0 31	0 52	1 56	2 41	14 21	23 29	23 33	23 49		n.a.
F 21	19 33	24 13	0n32	24 55	2 14	24 38	1 29	24 55	1 13	19 49	1 9	22 27	0 39	23 26	0 31	0 53	1 56	2 41	14 21	23 29	23 33	23 50		n.a.
S 22	19 47	24 55	1 35	25 3	2 12	24 24	1 16	24 55	1 13	19 47	1 9	22 27	0 39	23 26	0 31	0 53	1 56	2 42	14 21	23 29	23 33	23 51		n.a.
S 23	20 1	24 29	2 35	25 10	2 9	24 9	1 2	24 55	1 13	19 44	1 9	22 28	0 39	23 26	0 31	0 53	1 56	2 42	14 20	23 29	23 33	23 52		n.a.
M24	20 15	22 56	3 28	25 15	2 6	23 53	0 49	24 54	1 13	19 42	1 9	22 29	0 39	23 26	0 31	0 54	1 56	2 42	14 20	23 29	23 33	23 53		n.a.
T 25	20 28	20 21	4 14	25 18	2 2	23 37	0 34	24 53	1 13	19 39	1 9	22 30	0 38	23 25	0 31	0 54	1 56	2 42	14 20	23 29	23 33	23 55		n.a.
W26	20 41	16 49	4 48	25 19	1 57	23 20	0 20	24 52	1 13	19 37	1 9	22 30	0 38	23 25	0 31	0 54	1 56	2 42	14 20	23 29	23 32	23 56		n.a.
T 27	20 53	12 26	5 10	25 18	1 52	23 2	0 5	24 50	1 13	19 34	1 9	22 31	0 38	23 25	0 31	0 54	1 56	2 42	14 20	23 29	23 32	23 57		n.a.
F 28	21 5	7 24	5 16	25 16	1 45	22 44	0n10	24 49	1 13	19 31	1 9	22 32	0 38	23 24	0 30	0 54	1 56	2 42	14 19	23 29	23 32	23 58		n.a.
S 29	21 17	1 50	5 6	25 12	1 37	22 25	0 26	24 46	1 13	19 29	1 8	22 32	0 38	23 24	0 30	0 55	1 56	2 43	14 19	23 29	23 32	23 59		n.a.
S 30	21s28	4s 0	4n38	25s 5	1s28	22s 6	0n41	24s44	1s13	19s26	1s 8	22s33	0n38	23s24	0s30	0s55	1s56	2s43	14s19	23n29	23n32	24n 0		n.a.

Julian Day Number = 1684106.5, Delta T = 03h13m55s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'33, Lahiri = - 5°21'33 Julian Calendar 1 Nov. 103 BCE == Greg. Calendar 29 Oct. 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 103 BCE
geocentric

DECEMBER 103 BCE (-102) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	4 26 14	6♐32'18	5♏23	26♐ 6	13°R47	7♑45	8♒42	18♐24	14♑43	2°R 6	27°R21	22°R20	23♊ 6	26♊54	n.a.	M 1
T 2	4 30 11	7°33'34	20°10	26°57	13♐12	8°33	8°52	18°31	14°46	2♈ 6	27♈21	22♊18	23° 2	27° 1	n.a.	T 2
W 3	4 34 7	8°34'51	5♐12	27°40	12°37	9°20	9° 2	18°38	14°49	2° 5	27°20	22°16	22°59	27° 8	n.a.	W 3
T 4	4 38 4	9°36'08	20°22	28°15	12° 1	10° 7	9°13	18°45	14°52	2° 5	27°19	22°D16	22°56	27°14	n.a.	T 4
F 5	4 42 1	10°37'25	5♑30	28°42	11°24	10°54	9°23	18°52	14°55	2° 5	27°18	22°16	22°53	27°21	n.a.	F 5
S 6	4 45 57	11°38'42	20°27	28°58	10°47	11°41	9°34	18°59	14°58	2° 4	27°17	22°17	22°50	27°28	n.a.	S 6
S 7	4 49 54	12°39'58	5♒ 7	29°R 3	10°11	12°29	9°45	19° 6	15° 1	2° 4	27°17	22°18	22°47	27°34	n.a.	S 7
M 8	4 53 50	13°41'13	19°23	28°58	9°35	13°16	9°56	19°13	15° 4	2° 4	27°16	22°19	22°43	27°41	n.a.	M 8
T 9	4 57 47	14°42'28	3♓15	28°40	8°59	14° 3	10° 7	19°20	15° 7	2° 3	27°15	22°19	22°40	27°48	n.a.	T 9
W10	5 1 43	15°43'43	16°43	28°11	8°25	14°50	10°18	19°27	15°11	2° 3	27°14	22°R19	22°37	27°54	n.a.	W10
T 11	5 5 40	16°44'57	29°48	27°30	7°51	15°38	10°29	19°34	15°14	2° 3	27°14	22°19	22°34	28° 1	n.a.	T 11
F 12	5 9 37	17°46'10	12♈33	26°38	7°19	16°25	10°41	19°41	15°17	2° 3	27°13	22°19	22°31	28° 8	n.a.	F 12
S 13	5 13 33	18°47'22	25° 2	25°37	6°49	17°12	10°52	19°48	15°20	2° 3	27°12	22°18	22°28	28°14	n.a.	S 13
S 14	5 17 30	19°48'34	7♉17	24°28	6°20	17°59	11° 4	19°55	15°23	2° 3	27°12	22°18	22°24	28°21	n.a.	S 14
M15	5 21 26	20°49'45	19°21	23°13	5°53	18°47	11°15	20° 2	15°27	2° 3	27°11	22°18	22°21	28°28	n.a.	M15
T 16	5 25 23	21°50'55	1♊18	21°55	5°28	19°34	11°27	20° 9	15°30	2°D 3	27°10	22°D17	22°18	28°34	n.a.	T 16
W17	5 29 19	22°52'05	13°10	20°36	5° 6	20°21	11°39	20°16	15°33	2° 3	27°10	22°17	22°15	28°41	n.a.	W17
T 18	5 33 16	23°53'14	24°59	19°18	4°45	21° 8	11°51	20°24	15°36	2° 3	27° 9	22°R17	22°12	28°47	n.a.	T 18
F 19	5 37 12	24°54'23	6♋46	18° 5	4°27	21°56	12° 3	20°31	15°40	2° 3	27° 9	22°17	22° 8	28°54	n.a.	F 19
S 20	5 41 9	25°55'30	18°35	16°57	4°11	22°43	12°15	20°38	15°43	2° 3	27° 8	22°17	22° 5	29° 1	n.a.	S 20
S 21	5 45 6	26°56'38	0♌28	15°56	3°58	23°30	12°27	20°45	15°46	2° 3	27° 8	22°17	22° 2	29° 7	n.a.	S 21
M22	5 49 2	27°57'44	12°26	15° 4	3°48	24°17	12°39	20°52	15°50	2° 3	27° 7	22°16	21°59	29°14	n.a.	M22
T 23	5 52 59	28°58'50	24°34	14°21	3°40	25° 4	12°51	20°59	15°53	2° 3	27° 7	22°15	21°56	29°21	n.a.	T 23
W24	5 56 55	29°59'56	6♍54	13°47	3°34	25°51	13° 4	21° 6	15°57	2° 4	27° 6	22°14	21°53	29°27	n.a.	W24
T 25	6 0 52	1♎ 1'00	19°30	13°22	3°31	26°39	13°16	21°13	16° 0	2° 4	27° 6	22°14	21°49	29°34	n.a.	T 25
F 26	6 4 48	2° 2'04	2♎25	13° 6	3°D30	27°26	13°29	21°20	16° 3	2° 4	27° 6	22°D13	21°46	29°41	n.a.	F 26
S 27	6 8 45	3° 3'08	15°44	12°D59	3°32	28°13	13°42	21°27	16° 7	2° 5	27° 5	22°14	21°43	29°47	n.a.	S 27
S 28	6 12 41	4° 4'11	29°27	13° 0	3°36	29° 0	13°54	21°34	16°10	2° 5	27° 5	22°14	21°40	29°54	n.a.	S 28
M29	6 16 38	5° 5'13	13♏36	13° 9	3°43	29°47	14° 7	21°41	16°14	2° 5	27° 4	22°15	21°37	0♋ 1	n.a.	M29
T 30	6 20 35	6° 6'14	28°10	13°24	3°52	0♒34	14°20	21°48	16°17	2° 6	27° 4	22°16	21°34	0° 7	n.a.	T 30
W31	6 24 31	7♑ 7'14	13♐ 4	13♐46	4♐ 3	1♒21	14♒33	21♐55	16♑21	2♈ 6	27♈ 4	22♊17	21♊30	0♋14	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
M 1	21 s39	9 s50	3n52	24 s57	1 s18	21 s47	0n57	24 s41	1 s13	19 s23	1 s 8	22 s34	0n38	23 s23	0 s30	0 s55	1 s55	2 s43	14 s19	23n29	23n32	24n 1			n.a.
T 2	21 49	15 16	2 49	24 48	1 7	21 27	1 12	24 38	1 13	19 20	1 8	22 35	0 38	23 23	0 30	0 55	1 55	2 43	14 19	23 29	23 31	24 2			n.a.
W 3	21 59	19 53	1 33	24 36	0 55	21 7	1 28	24 35	1 13	19 17	1 8	22 35	0 38	23 23	0 30	0 55	1 55	2 43	14 18	23 29	23 31	24 3			n.a.
T 4	22 8	23 11	0 11	24 23	0 41	20 47	1 43	24 31	1 13	19 14	1 8	22 36	0 38	23 22	0 30	0 55	1 55	2 43	14 18	23 29	23 31	24 4			n.a.
F 5	22 17	24 48	1 s13	24 9	0 26	20 27	1 58	24 27	1 12	19 11	1 8	22 37	0 38	23 22	0 30	0 55	1 55	2 43	14 18	23 29	23 31	24 5			n.a.
S 6	22 26	24 36	2 30	23 53	0 10	20 7	2 14	24 23	1 12	19 8	1 8	22 37	0 38	23 22	0 30	0 56	1 55	2 43	14 18	23 29	23 31	24 6			n.a.
S 7	22 34	22 42	3 36	23 36	0n 7	19 47	2 28	24 19	1 12	19 5	1 8	22 38	0 37	23 21	0 30	0 56	1 55	2 43	14 17	23 29	23 30	24 7			n.a.
M 8	22 42	19 23	4 27	23 17	0 25	19 27	2 43	24 14	1 12	19 2	1 7	22 39	0 37	23 21	0 30	0 56	1 55	2 43	14 17	23 29	23 30	24 8			n.a.
T 9	22 49	15 5	5 1	22 58	0 44	19 8	2 57	24 9	1 12	18 59	1 7	22 39	0 37	23 21	0 30	0 56	1 55	2 43	14 17	23 29	23 30	24 9			n.a.
W10	22 56	10 9	5 16	22 39	1 3	18 49	3 10	24 4	1 12	18 56	1 7	22 40	0 37	23 20	0 30	0 56	1 55	2 43	14 17	23 29	23 30	24 10			n.a.
T 11	23 2	4 53	5 15	22 18	1 23	18 31	3 23	23 58	1 12	18 53	1 7	22 40	0 37	23 20	0 30	0 56	1 55	2 43	14 16	23 29	23 30	24 11			n.a.
F 12	23 8	0n26	4 58	21 58	1 42	18 14	3 36	23 52	1 12	18 50	1 7	22 41	0 37	23 19	0 30	0 56	1 55	2 43	14 16	23 29	23 30	24 12			n.a.
S 13	23 14	5 39	4 28	21 37	2 1	17 57	3 48	23 46	1 11	18 46	1 7	22 42	0 37	23 19	0 30	0 56	1 55	2 43	14 16	23 29	23 29	24 13			n.a.
S 14	23 19	10 33	3 45	21 17	2 19	17 41	3 59	23 40	1 11	18 43	1 7	22 42	0 37	23 19	0 30	0 56	1 55	2 43	14 16	23 29	23 29	24 14			n.a.
M15	23 23	14 59	2 53	20 57	2 35	17 26	4 10	23 33	1 11	18 40	1 7	22 43	0 37	23 18	0 30	0 56	1 55	2 43	14 15	23 29	23 29	24 15			n.a.
T 16	23 27	18 47	1 54	20 38	2 50	17 11	4 20	23 26	1 11	18 36	1 7	22 44	0 37	23 18	0 30	0 56	1 55	2 43	14 15	23 29	23 29	24 16			n.a.
W17	23 31	21 48	0 51	20 21	3 2	16 58	4 29	23 19	1 11	18 33	1 7	22 44	0 37	23 18	0 30	0 56	1 55	2 43	14 15	23 29	23 29	24 17			n.a.
T 18	23 34	23 52	0n15	20 5	3 12	16 46	4 38	23 11	1 11	18 30	1 7	22 45	0 37	23 17	0 30	0 56	1 54	2 43	14 14	23 29	23 28	24 18			n.a.
F 19	23 36	24 52	1 20	19 51	3 19	16 35	4 46	23 4	1 10	18 26	1 6	22 45	0 37	23 17	0 30	0 55	1 54	2 43	14 14	23 29	23 28	24 19			n.a.
S 20	23 39	24 44	2 21	19 40	3 24	16 25	4 54	22 55	1 10	18 23	1 6	22 46	0 37	23 16	0 30	0 55	1 54	2 43	14 14	23 29	23 28	24 20			n.a.
S 21	23 40	23 29	3 17	19 32	3 27	16 15	5 1	22 47	1 10	18 19	1 6	22 46	0 36	23 16	0 30	0 55	1 54	2 43	14 14	23 29	23 28	24 20			n.a.
M22	23 41	21 10	4 4	19 25	3 27	16 7	5 7	22 39	1 10	18 15	1 6	22 47	0 36	23 16	0 30	0 55	1 54	2 43	14 13	23 29	23 28	24 21			n.a.
T 23	23 42	17 53	4 41	19 22	3 26	16 0	5 12	22 30	1 10	18 12	1 6	22 48	0 36	23 15	0 30	0 55	1 54	2 42	14 13	23 29	23 28	24 22			n.a.
W24	23 42	13 48	5 6	19 21	3 23	15 55	5 17	22 21	1 9	18 8	1 6	22 48	0 36	23 15	0 30	0 55	1 54	2 42	14 13	23 29	23 27	24 23			n.a.
T 25	23 42	9 3	5 17	19 23	3 18	15 50	5 22	22 12	1 9	18 5	1 6	22 49	0 36	23 14	0 30	0 55	1 54	2 42	14 12	23 29	23 27	24 24			n.a.
F 26	23 41	3 48	5 13	19 27	3 12	15 46	5 26	22 2	1 9	18 1	1 6	22 49	0 36	23 14	0 30	0 54	1 54	2 42	14 12	23 29	23 27	24 25			n.a.
S 27	23 40	1 s47	4 51	19 33	3 5	15 43	5 29	21 52	1 9	17 57	1 6	22 50	0 36	23 13	0 30	0 54	1 54	2 42	14 12	23 29	23 27	24 26			n.a.
S 28	23 39	7 27	4 13	19 41	2 57	15 41	5 32	21 42	1 8	17 53	1 6	22 50	0 36	23 13	0 30	0 54	1 54	2 42	14 12	23 29	23 27	24 27			n.a.
M29	23 37	12 56	3 19	19 51	2 49	15 40	5 34	21 32	1 8	17 49	1 6	22 51	0 36	23 13	0 30	0 54	1 54	2 42	14 11	23 29	23 26	24 28			n.a.
T 30	23 34	17 52	2 10	20 1	2 40	15 40	5 36	21 21	1 8	17 46	1 6	22 51	0 36	23 12	0 30	0 53	1 54	2 41	14 11	23 29	23 26	24 29			n.a.
W31	23 s31	21 s47	0n51	20 s14	2n30	15 s41	5n37	21 s11	1 s 8	17 s42	1 s 6	22 s52	0n36	23 s12	0 s30	0 s53	1 s54	2 s41	14 s11	23n29	23n26	24n29			n.a.

Julian Day Number = 1684136.5, Delta T = 03h13m54s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'29, Lahiri = - 5°21'29 Julian Calendar 1 Dec. 103 BCE == Greg. Calendar 28 Nov. 103 BCE

The year -102 astronomical counting style corresponds to year 103 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

JANUARY 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 28 28	8♑ 8'14	28♐13	14♐15	4♐16	2♒ 9	14♒46	22♐ 2	16♑24	2♈ 7	27°R 3	22°R17	21♊27	0♋21	n.a.	T 1
F 2	6 32 24	9° 9'12	13♑27	14°48	4°32	2°56	14°59	22° 9	16°28	2° 8	27♈ 3	22♊16	21°24	0°27	n.a.	F 2
S 3	6 36 21	10°10'10	28°36	15°27	4°49	3°43	15°12	22°16	16°31	2° 8	27° 3	22°15	21°21	0°34	n.a.	S 3
S 4	6 40 17	11°11'06	13♒31	16°10	5° 8	4°30	15°25	22°22	16°35	2° 9	27° 3	22°12	21°18	0°40	n.a.	S 4
M 5	6 44 14	12°12'00	28° 4	16°57	5°30	5°17	15°38	22°29	16°38	2° 9	27° 3	22°10	21°14	0°47	n.a.	M 5
T 6	6 48 11	13°12'53	12♓11	17°48	5°53	6° 4	15°52	22°36	16°42	2°10	27° 2	22° 7	21°11	0°54	n.a.	T 6
W 7	6 52 7	14°13'44	25°49	18°42	6°18	6°51	16° 5	22°43	16°45	2°11	27° 2	22° 5	21° 8	1° 0	n.a.	W 7
T 8	6 56 4	15°14'33	9♈ 0	19°40	6°44	7°38	16°18	22°50	16°49	2°12	27° 2	22° 4	21° 5	1° 7	n.a.	T 8
F 9	7 0 0	16°15'21	21°46	20°40	7°13	8°25	16°32	22°56	16°52	2°12	27° 2	22°D 4	21° 2	1°14	n.a.	F 9
S 10	7 3 57	17°16'08	4♉11	21°43	7°43	9°12	16°45	23° 3	16°56	2°13	27° 2	22° 5	20°59	1°20	n.a.	S 10
S 11	7 7 53	18°16'52	16°20	22°48	8°14	9°58	16°59	23°10	16°59	2°14	27° 2	22° 6	20°55	1°27	n.a.	S 11
M12	7 11 50	19°17'35	28°18	23°55	8°47	10°45	17°13	23°16	17° 3	2°15	27° 2	22° 8	20°52	1°34	n.a.	M12
T 13	7 15 46	20°18'16	10♊ 8	25° 5	9°21	11°32	17°26	23°23	17° 6	2°16	27° 2	22°10	20°49	1°40	n.a.	T 13
W14	7 19 43	21°18'56	21°55	26°16	9°57	12°19	17°40	23°29	17°10	2°17	27°D 2	22°R10	20°46	1°47	n.a.	W14
T 15	7 23 40	22°19'34	3♋42	27°30	10°34	13° 6	17°54	23°36	17°13	2°18	27° 2	22°10	20°43	1°54	n.a.	T 15
F 16	7 27 36	23°20'10	15°32	28°45	11°12	13°52	18° 8	23°42	17°17	2°19	27° 2	22° 7	20°40	2° 0	n.a.	F 16
S 17	7 31 33	24°20'44	27°27	0♑ 1	11°51	14°39	18°21	23°49	17°20	2°20	27° 2	22° 4	20°36	2° 7	n.a.	S 17
S 18	7 35 29	25°21'17	9♌28	1°19	12°32	15°26	18°35	23°55	17°24	2°21	27° 2	21°58	20°33	2°14	n.a.	S 18
M19	7 39 26	26°21'49	21°37	2°39	13°14	16°12	18°49	24° 2	17°27	2°22	27° 2	21°52	20°30	2°20	n.a.	M19
T 20	7 43 22	27°22'18	3♍56	3°59	13°57	16°59	19° 3	24° 8	17°30	2°23	27° 2	21°45	20°27	2°27	n.a.	T 20
W21	7 47 19	28°22'47	16°26	5°22	14°41	17°46	19°17	24°14	17°34	2°25	27° 2	21°39	20°24	2°34	n.a.	W21
T 22	7 51 15	29°23'13	29° 9	6°45	15°25	18°32	19°31	24°21	17°37	2°26	27° 3	21°34	20°20	2°40	n.a.	T 22
F 23	7 55 12	0♒23'38	12♎ 7	8°10	16°11	19°19	19°45	24°27	17°41	2°27	27° 3	21°31	20°17	2°47	n.a.	F 23
S 24	7 59 9	1°24'02	25°22	9°35	16°58	20° 5	19°59	24°33	17°44	2°28	27° 3	21°29	20°14	2°53	n.a.	S 24
S 25	8 3 5	2°24'24	8♏56	11° 2	17°46	20°52	20°14	24°39	17°48	2°30	27° 3	21°D29	20°11	3° 0	n.a.	S 25
M26	8 7 2	3°24'45	22°50	12°30	18°34	21°38	20°28	24°45	17°51	2°31	27° 3	21°30	20° 8	3° 7	n.a.	M26
T 27	8 10 58	4°25'04	7♐ 6	13°59	19°23	22°25	20°42	24°51	17°54	2°32	27° 4	21°32	20° 5	3°13	n.a.	T 27
W28	8 14 55	5°25'22	21°41	15°29	20°13	23°11	20°56	24°57	17°58	2°34	27° 4	21°R32	20° 1	3°20	n.a.	W28
T 29	8 18 51	6°25'38	6♑31	17° 1	21° 4	23°57	21°10	25° 3	18° 1	2°35	27° 4	21°31	19°58	3°27	n.a.	T 29
F 30	8 22 48	7°25'52	21°32	18°33	21°55	24°44	21°25	25° 9	18° 5	2°37	27° 5	21°28	19°55	3°33	n.a.	F 30
S 31	8 26 44	8♒26'05	6♒34	20♑ 7	22♐48	25♒30	21♒39	25♐15	18♑ 8	2♈38	27♈ 5	21♊23	19♊52	3♋40	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	23 s27	24 s15	0 s33	20 s27	2n20	15 s42	5n38	21 s 0	1 s 7	17 s38	1 s 6	22 s52	0n36	23 s11	0 s30	0 s53	1 s54	2 s41	14 s10	23n29	23n26	24n30			n.a.
F 2	23 23	24 55	1 55	20 40	2 10	15 44	5 38	20 49	1 7	17 34	1 5	22 53	0 36	23 11	0 30	0 53	1 53	2 41	14 10	23 29	23 26	24 31			n.a.
S 3	23 19	23 44	3 8	20 55	2 0	15 47	5 39	20 37	1 7	17 30	1 5	22 53	0 36	23 11	0 30	0 52	1 53	2 41	14 10	23 29	23 25	24 32			n.a.
S 4	23 14	20 53	4 7	21 10	1 50	15 51	5 38	20 26	1 6	17 26	1 5	22 54	0 36	23 10	0 30	0 52	1 53	2 40	14 9	23 29	23 25	24 33			n.a.
M 5	23 8	16 46	4 48	21 24	1 40	15 55	5 38	20 14	1 6	17 22	1 5	22 54	0 36	23 10	0 30	0 52	1 53	2 40	14 9	23 28	23 25	24 34			n.a.
T 6	23 3	11 51	5 11	21 39	1 29	16 0	5 37	20 2	1 6	17 18	1 5	22 54	0 36	23 9	0 30	0 51	1 53	2 40	14 9	23 28	23 25	24 34			n.a.
W 7	22 56	6 29	5 15	21 54	1 19	16 5	5 36	19 50	1 6	17 14	1 5	22 55	0 35	23 9	0 30	0 51	1 53	2 40	14 8	23 28	23 24	24 35			n.a.
T 8	22 50	1 1	5 2	22 9	1 9	16 11	5 34	19 37	1 5	17 10	1 5	22 55	0 35	23 8	0 30	0 51	1 53	2 39	14 8	23 28	23 24	24 36			n.a.
F 9	22 42	4n20	4 34	22 23	0 59	16 18	5 32	19 24	1 5	17 6	1 5	22 56	0 35	23 8	0 30	0 50	1 53	2 39	14 8	23 28	23 24	24 37			n.a.
S 10	22 35	9 23	3 54	22 37	0 49	16 25	5 30	19 12	1 5	17 1	1 5	22 56	0 35	23 7	0 30	0 50	1 53	2 39	14 7	23 28	23 24	24 38			n.a.
S 11	22 27	13 58	3 5	22 51	0 40	16 32	5 28	18 59	1 4	16 57	1 5	22 56	0 35	23 7	0 30	0 49	1 53	2 39	14 7	23 28	23 24	24 39			n.a.
M12	22 18	17 56	2 8	23 4	0 30	16 39	5 25	18 45	1 4	16 53	1 5	22 57	0 35	23 7	0 30	0 49	1 53	2 38	14 7	23 28	23 23	24 39			n.a.
T 13	22 9	21 8	1 6	23 16	0 21	16 47	5 23	18 32	1 3	16 49	1 5	22 57	0 35	23 6	0 30	0 49	1 53	2 38	14 6	23 28	23 23	24 40			n.a.
W14	22 0	23 26	0 1	23 27	0 12	16 55	5 20	18 18	1 3	16 44	1 5	22 58	0 35	23 6	0 30	0 48	1 53	2 38	14 6	23 28	23 23	24 41			n.a.
T 15	21 50	24 42	1n 3	23 38	0 3	17 4	5 16	18 5	1 3	16 40	1 5	22 58	0 35	23 5	0 30	0 48	1 53	2 37	14 6	23 28	23 23	24 42			n.a.
F 16	21 40	24 51	2 5	23 48	0 s 6	17 12	5 13	17 51	1 2	16 36	1 5	22 58	0 35	23 5	0 30	0 47	1 53	2 37	14 6	23 28	23 22	24 42			n.a.
S 17	21 29	23 52	3 1	23 57	0 14	17 21	5 10	17 36	1 2	16 31	1 5	22 59	0 35	23 4	0 30	0 47	1 53	2 37	14 5	23 28	23 22	24 43			n.a.
S 18	21 18	21 47	3 50	24 4	0 22	17 30	5 6	17 22	1 2	16 27	1 5	22 59	0 35	23 4	0 30	0 46	1 53	2 37	14 5	23 28	23 22	24 44			n.a.
M19	21 7	18 42	4 29	24 11	0 30	17 39	5 2	17 8	1 1	16 23	1 5	22 59	0 35	23 3	0 30	0 46	1 52	2 36	14 5	23 27	23 22	24 45			n.a.
T 20	20 55	14 46	4 56	24 17	0 38	17 48	4 58	16 53	1 1	16 18	1 5	23 0	0 35	23 3	0 30	0 45	1 52	2 36	14 4	23 27	23 22	24 45			n.a.
W21	20 43	10 9	5 10	24 21	0 45	17 57	4 54	16 38	1 0	16 14	1 5	23 0	0 35	23 3	0 30	0 45	1 52	2 35	14 4	23 26	23 21	24 46			n.a.
T 22	20 30	5 3	5 8	24 24	0 52	18 6	4 50	16 23	1 0	16 9	1 5	23 0	0 35	23 2	0 30	0 44	1 52	2 35	14 4	23 26	23 21	24 47			n.a.
F 23	20 18	0 s23	4 51	24 26	0 59	18 15	4 45	16 8	1 0	16 5	1 5	23 1	0 35	23 2	0 30	0 44	1 52	2 35	14 3	23 26	23 21	24 48			n.a.
S 24	20 4	5 55	4 19	24 27	1 6	18 24	4 41	15 53	0 59	16 0	1 5	23 1	0 35	23 1	0 31	0 43	1 52	2 34	14 3	23 26	23 21	24 48			n.a.
S 25	19 51	11 18	3 31	24 27	1 12	18 33	4 36	15 38	0 59	15 56	1 5	23 1	0 35	23 1	0 31	0 43	1 52	2 34	14 3	23 26	23 20	24 49			n.a.
M26	19 37	16 17	2 29	24 25	1 18	18 42	4 31	15 22	0 58	15 51	1 5	23 2	0 35	23 0	0 31	0 42	1 52	2 34	14 2	23 26	23 20	24 50			n.a.
T 27	19 22	20 28	1 18	24 21	1 24	18 51	4 27	15 7	0 58	15 47	1 5	23 2	0 35	23 0	0 31	0 41	1 52	2 33	14 2	23 26	23 20	24 50			n.a.
W28	19 8	23 27	0 s 1	24 16	1 29	19 0	4 22	14 51	0 58	15 42	1 5	23 2	0 35	22 59	0 31	0 41	1 52	2 33	14 2	23 26	23 20	24 51			n.a.
T 29	18 53	24 53	1 20	24 10	1 34	19 8	4 17	14 35	0 57	15 37	1 5	23 2	0 34	22 59	0 31	0 40	1 52	2 32	14 1	23 26	23 19	24 52			n.a.
F 30	18 37	24 31	2 35	24 2	1 39	19 16	4 12	14 19	0 57	15 33	1 5	23 3	0 34	22 59	0 31	0 40	1 52	2 32	14 1	23 26	23 19	24 53			n.a.
S 31	18 s21	22 s22	3 s39	23 s53	1 s43	19 s24	4n 6	14 s 3	0 s56	15 s28	1 s 5	23 s 3	0n34	22 s58	0 s31	0 s39	1 s52	2 s32	14 s 1	23n25	23n19	24n53			n.a.

Julian Day Number = 1684167.5, Delta T = 03h13m53s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'25, Lahiri = - 5°21'24 Julian Calendar 1 Jan. 102 BCE == Greg. Calendar 29 Dec. 103 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

FEBRUARY 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 30 41	9♒26'15	21♒28	21♑41	23♐40	26♒16	21♒53	25♐20	18♑11	2♈40	27♈ 5	21°R16	19♊49	3♋47	n.a.	S 1
M 2	8 34 38	10°26'24	6♓ 5	23°17	24°34	27° 2	22° 8	25°26	18°15	2°41	27° 6	21♊ 8	19°46	3°53	n.a.	M 2
T 3	8 38 34	11°26'30	20°19	24°53	25°28	27°49	22°22	25°32	18°18	2°43	27° 6	21° 0	19°42	4° 0	n.a.	T 3
W 4	8 42 31	12°26'34	4♈ 5	26°31	26°22	28°35	22°36	25°37	18°21	2°44	27° 7	20°53	19°39	4° 7	n.a.	W 4
T 5	8 46 27	13°26'36	17°23	28°10	27°17	29°21	22°51	25°43	18°24	2°46	27° 7	20°48	19°36	4°13	n.a.	T 5
F 6	8 50 24	14°26'36	0♉15	29°49	28°13	0♓ 7	23° 5	25°48	18°28	2°47	27° 8	20°44	19°33	4°20	n.a.	F 6
S 7	8 54 20	15°26'33	12°43	1♒30	29° 9	0°53	23°19	25°54	18°31	2°49	27° 8	20°D43	19°30	4°27	n.a.	S 7
S 8	8 58 17	16°26'28	24°53	3°13	0♑ 6	1°39	23°34	25°59	18°34	2°51	27° 9	20°43	19°26	4°33	n.a.	S 8
M 9	9 2 13	17°26'21	6♊49	4°56	1° 3	2°25	23°48	26° 5	18°37	2°52	27° 9	20°44	19°23	4°40	n.a.	M 9
T 10	9 6 10	18°26'12	18°38	6°40	2° 1	3°11	24° 3	26°10	18°40	2°54	27°10	20°R45	19°20	4°47	n.a.	T 10
W11	9 10 7	19°26'00	0♋25	8°26	2°59	3°56	24°17	26°15	18°43	2°56	27°10	20°45	19°17	4°53	n.a.	W11
T 12	9 14 3	20°25'46	12°13	10°12	3°57	4°42	24°32	26°20	18°47	2°58	27°11	20°42	19°14	5° 0	n.a.	T 12
F 13	9 18 0	21°25'30	24° 6	12° 0	4°56	5°28	24°46	26°25	18°50	2°59	27°12	20°37	19°11	5° 6	n.a.	F 13
S 14	9 21 56	22°25'11	6♌ 8	13°49	5°55	6°14	25° 1	26°30	18°53	3° 1	27°12	20°29	19° 7	5°13	n.a.	S 14
S 15	9 25 53	23°24'50	18°21	15°39	6°55	6°59	25°15	26°35	18°56	3° 3	27°13	20°20	19° 4	5°20	n.a.	S 15
M16	9 29 49	24°24'28	0♍44	17°31	7°55	7°45	25°30	26°40	18°59	3° 5	27°14	20° 8	19° 1	5°26	n.a.	M16
T 17	9 33 46	25°24'03	13°20	19°24	8°56	8°31	25°44	26°45	19° 2	3° 7	27°14	19°56	18°58	5°33	n.a.	T 17
W18	9 37 42	26°23'36	26° 8	21°17	9°56	9°16	25°58	26°49	19° 5	3° 9	27°15	19°45	18°55	5°40	n.a.	W18
T 19	9 41 39	27°23'07	9♎ 8	23°12	10°57	10° 2	26°13	26°54	19° 8	3°11	27°16	19°35	18°52	5°46	n.a.	T 19
F 20	9 45 35	28°22'36	22°19	25° 9	11°59	10°47	26°27	26°58	19°11	3°12	27°17	19°27	18°48	5°53	n.a.	F 20
S 21	9 49 32	29°22'03	5♏42	27° 6	13° 1	11°32	26°42	27° 3	19°13	3°14	27°17	19°23	18°45	6° 0	n.a.	S 21
S 22	9 53 29	0♓21'28	19°18	29° 4	14° 3	12°18	26°56	27° 7	19°16	3°16	27°18	19°20	18°42	6° 6	n.a.	S 22
M23	9 57 25	1°20'52	3♐ 7	1♓ 4	15° 5	13° 3	27°11	27°12	19°19	3°18	27°19	19°D20	18°39	6°13	n.a.	M23
T 24	10 1 22	2°20'13	17°10	3° 4	16° 8	13°48	27°25	27°16	19°22	3°20	27°20	19°R20	18°36	6°20	n.a.	T 24
W25	10 5 18	3°19'33	1♑27	5° 5	17°11	14°34	27°40	27°20	19°25	3°22	27°21	19°20	18°32	6°26	n.a.	W25
T 26	10 9 15	4°18'52	15°55	7° 7	18°14	15°19	27°54	27°24	19°27	3°24	27°22	19°17	18°29	6°33	n.a.	T 26
F 27	10 13 11	5°18'08	0♒32	9° 9	19°17	16° 4	28° 9	27°28	19°30	3°26	27°22	19°13	18°26	6°40	n.a.	F 27
S 28	10 17 8	6♓17'22	15♒11	11♓12	20♑21	16♓49	28♒23	27♐32	19♑33	3♈28	27♈23	19♊ 5	18♊23	6♋46	n.a.	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	18s 5	18s43	4s27	23s42	1s47	19s32	4n 1	13s46	0s56	15s23	1s 5	23s 3	0n34	22s58	0s31	0s38	1s52	2s31	14s 0	23n25	23n19	24n54			n.a.
M 2	17 49	13 58	4 57	23 30	1 51	19 40	3 56	13 30	0 55	15 19	1 5	23 3	0 34	22 57	0 31	0 38	1 52	2 31	14 0	23 24	23 18	24 55			n.a.
T 3	17 33	8 35	5 7	23 16	1 54	19 47	3 51	13 14	0 55	15 14	1 5	23 4	0 34	22 57	0 31	0 37	1 52	2 30	14 0	23 24	23 18	24 55			n.a.
W 4	17 16	2 56	4 59	23 0	1 57	19 54	3 45	12 57	0 54	15 9	1 5	23 4	0 34	22 56	0 31	0 36	1 52	2 30	13 59	23 23	23 18	24 56			n.a.
T 5	16 58	2n40	4 35	22 43	2 0	20 1	3 40	12 40	0 54	15 4	1 5	23 4	0 34	22 56	0 31	0 36	1 52	2 29	13 59	23 23	23 18	24 56			n.a.
F 6	16 41	7 59	3 58	22 24	2 2	20 7	3 35	12 23	0 54	15 0	1 5	23 4	0 34	22 56	0 31	0 35	1 52	2 29	13 59	23 23	23 17	24 57			n.a.
S 7	16 23	12 49	3 10	22 3	2 4	20 13	3 29	12 7	0 53	14 55	1 5	23 4	0 34	22 55	0 31	0 34	1 52	2 28	13 59	23 23	23 17	24 58			n.a.
S 8	16 5	17 2	2 15	21 41	2 5	20 19	3 24	11 50	0 53	14 50	1 5	23 5	0 34	22 55	0 31	0 33	1 51	2 28	13 58	23 23	23 17	24 58			n.a.
M 9	15 47	20 28	1 14	21 17	2 6	20 24	3 18	11 32	0 52	14 45	1 5	23 5	0 34	22 54	0 31	0 33	1 51	2 27	13 58	23 23	23 17	24 59			n.a.
T 10	15 28	23 2	0 11	20 51	2 6	20 29	3 13	11 15	0 52	14 40	1 5	23 5	0 34	22 54	0 31	0 32	1 51	2 27	13 58	23 23	23 16	25 0			n.a.
W11	15 9	24 34	0n52	20 24	2 6	20 33	3 7	10 58	0 51	14 36	1 5	23 5	0 34	22 53	0 31	0 31	1 51	2 26	13 57	23 23	23 16	25 0			n.a.
T 12	14 50	25 0	1 52	19 54	2 6	20 37	3 2	10 41	0 51	14 31	1 5	23 5	0 34	22 53	0 31	0 31	1 51	2 26	13 57	23 23	23 16	25 1			n.a.
F 13	14 31	24 18	2 49	19 23	2 5	20 41	2 56	10 23	0 50	14 26	1 5	23 6	0 34	22 53	0 31	0 30	1 51	2 25	13 57	23 22	23 16	25 1			n.a.
S 14	14 12	22 28	3 38	18 50	2 4	20 44	2 50	10 6	0 50	14 21	1 5	23 6	0 34	22 52	0 31	0 29	1 51	2 25	13 56	23 22	23 15	25 2			n.a.
S 15	13 52	19 34	4 18	18 15	2 2	20 47	2 45	9 48	0 49	14 16	1 5	23 6	0 34	22 52	0 31	0 28	1 51	2 24	13 56	23 21	23 15	25 3			n.a.
M16	13 32	15 47	4 46	17 39	1 59	20 49	2 39	9 30	0 49	14 11	1 5	23 6	0 34	22 51	0 31	0 27	1 51	2 24	13 56	23 20	23 15	25 3			n.a.
T 17	13 12	11 14	5 1	17 1	1 56	20 51	2 34	9 13	0 48	14 6	1 5	23 6	0 34	22 51	0 31	0 27	1 51	2 23	13 56	23 19	23 15	25 4			n.a.
W18	12 52	6 9	5 1	16 21	1 53	20 52	2 28	8 55	0 48	14 1	1 5	23 6	0 34	22 51	0 31	0 26	1 51	2 23	13 55	23 18	23 14	25 4			n.a.
T 19	12 31	0 43	4 45	15 39	1 49	20 53	2 22	8 37	0 47	13 56	1 5	23 6	0 34	22 50	0 31	0 25	1 51	2 22	13 55	23 18	23 14	25 5			n.a.
F 20	12 10	4s51	4 15	14 55	1 44	20 53	2 17	8 19	0 47	13 52	1 5	23 7	0 34	22 50	0 31	0 24	1 51	2 22	13 55	23 17	23 14	25 5			n.a.
S 21	11 49	10 16	3 30	14 10	1 39	20 53	2 11	8 1	0 46	13 47	1 5	23 7	0 34	22 49	0 31	0 24	1 51	2 21	13 54	23 17	23 14	25 6			n.a.
S 22	11 28	15 18	2 32	13 23	1 34	20 53	2 6	7 43	0 46	13 42	1 5	23 7	0 34	22 49	0 31	0 23	1 51	2 21	13 54	23 16	23 13	25 6			n.a.
M23	11 7	19 38	1 25	12 35	1 27	20 51	2 0	7 25	0 45	13 37	1 5	23 7	0 34	22 49	0 31	0 22	1 51	2 20	13 54	23 16	23 13	25 7			n.a.
T 24	10 46	22 53	0 12	11 45	1 20	20 49	1 55	7 7	0 44	13 32	1 6	23 7	0 34	22 48	0 31	0 21	1 51	2 20	13 54	23 16	23 13	25 7			n.a.
W25	10 24	24 46	1s 4	10 53	1 13	20 47	1 49	6 49	0 44	13 27	1 6	23 7	0 34	22 48	0 31	0 20	1 51	2 19	13 53	23 16	23 12	25 8			n.a.
T 26	10 2	25 0	2 16	10 0	1 5	20 44	1 44	6 31	0 43	13 22	1 6	23 7	0 34	22 48	0 31	0 19	1 51	2 19	13 53	23 16	23 12	25 8			n.a.
F 27	9 40	23 31	3 20	9 6	0 57	20 41	1 38	6 13	0 43	13 17	1 6	23 7	0 34	22 47	0 31	0 19	1 51	2 18	13 53	23 16	23 12	25 9			n.a.
S 28	9s18	20s27	4s11	8s11	0s48	20s37	1n33	5s55	0s42	13s12	1s 6	23s 8	0n34	22s47	0s31	0s18	1s51	2s18	13s53	23n15	23n12	25n 9			n.a.

Julian Day Number = 1684198.5, Delta T = 03h13m52s
Ecliptic obliquity = 23°42'28, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'21, Lahiri = - 5°21'20 Julian Calendar 1 Feb. 102 BCE == Greg. Calendar 29 Jan. 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

MARCH 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 21 4	7♓16'34	29♒47	13♓15	21♑25	17♓34	28♒37	27♐36	19♑35	3♈30	27♈24	18°R55	18♊20	6♋53	n.a.	S 1
M 2	10 25 1	8°15'44	14♓11	15°18	22°29	18°19	28°52	27°40	19°38	3°33	27°25	18♊43	18°17	7° 0	n.a.	M 2
T 3	10 28 58	9°14'52	28°17	17°20	23°33	19° 4	29° 6	27°44	19°41	3°35	27°26	18°31	18°13	7° 6	n.a.	T 3
W 4	10 32 54	10°13'57	12♈ 1	19°22	24°38	19°49	29°20	27°47	19°43	3°37	27°27	18°20	18°10	7°13	n.a.	W 4
T 5	10 36 51	11°13'01	25°19	21°22	25°42	20°34	29°35	27°51	19°46	3°39	27°28	18°11	18° 7	7°19	n.a.	T 5
F 6	10 40 47	12°12'02	8♉12	23°22	26°47	21°19	29°49	27°54	19°48	3°41	27°29	18° 5	18° 4	7°26	n.a.	F 6
S 7	10 44 44	13°11'00	20°43	25°19	27°53	22° 3	0♓ 3	27°58	19°50	3°43	27°30	18° 2	18° 1	7°33	n.a.	S 7
S 8	10 48 40	14° 9'56	2♊55	27°15	28°58	22°48	0°18	28° 1	19°53	3°45	27°31	18° 0	17°58	7°39	n.a.	S 8
M 9	10 52 37	15° 8'50	14°54	29° 8	0♒ 3	23°33	0°32	28° 4	19°55	3°47	27°32	18° 0	17°54	7°46	n.a.	M 9
T 10	10 56 33	16° 7'42	26°44	0♈58	1° 9	24°17	0°46	28° 7	19°58	3°50	27°33	18° 0	17°51	7°53	n.a.	T 10
W11	11 0 30	17° 6'31	8♋32	2°45	2°15	25° 2	1° 0	28°10	20° 0	3°52	27°34	17°59	17°48	7°59	n.a.	W11
T 12	11 4 26	18° 5'18	20°22	4°29	3°21	25°46	1°14	28°13	20° 2	3°54	27°35	17°56	17°45	8° 6	n.a.	T 12
F 13	11 8 23	19° 4'03	2♌20	6° 9	4°27	26°31	1°28	28°16	20° 4	3°56	27°36	17°50	17°42	8°13	n.a.	F 13
S 14	11 12 20	20° 2'45	14°29	7°44	5°33	27°15	1°43	28°19	20° 6	3°58	27°38	17°42	17°38	8°19	n.a.	S 14
S 15	11 16 16	21° 1'25	26°52	9°15	6°40	27°59	1°57	28°22	20° 9	4° 1	27°39	17°31	17°35	8°26	n.a.	S 15
M16	11 20 13	22° 0'03	9♍30	10°42	7°46	28°44	2°11	28°24	20°11	4° 3	27°40	17°19	17°32	8°33	n.a.	M16
T 17	11 24 9	22°58'38	22°24	12° 4	8°53	29°28	2°25	28°27	20°13	4° 5	27°41	17° 6	17°29	8°39	n.a.	T 17
W18	11 28 6	23°57'12	5♎32	13°20	10° 0	0♈12	2°39	28°29	20°15	4° 7	27°42	16°53	17°26	8°46	n.a.	W18
T 19	11 32 2	24°55'43	18°55	14°32	11° 7	0°56	2°53	28°31	20°17	4° 9	27°43	16°42	17°23	8°53	n.a.	T 19
F 20	11 35 59	25°54'13	2♏28	15°38	12°14	1°40	3° 6	28°34	20°18	4°12	27°44	16°34	17°19	8°59	n.a.	F 20
S 21	11 39 55	26°52'41	16°11	16°39	13°21	2°24	3°20	28°36	20°20	4°14	27°46	16°28	17°16	9° 6	n.a.	S 21
S 22	11 43 52	27°51'07	0♐ 1	17°35	14°29	3° 8	3°34	28°38	20°22	4°16	27°47	16°26	17°13	9°13	n.a.	S 22
M23	11 47 49	28°49'32	13°58	18°24	15°36	3°52	3°48	28°40	20°24	4°18	27°48	16°D25	17°10	9°19	n.a.	M23
T 24	11 51 45	29°47'55	28° 0	19° 8	16°44	4°36	4° 2	28°42	20°26	4°21	27°49	16°R25	17° 7	9°26	n.a.	T 24
W25	11 55 42	0♈46'17	12♑ 8	19°47	17°52	5°20	4°15	28°43	20°27	4°23	27°50	16°25	17° 3	9°33	n.a.	W25
T 26	11 59 38	1°44'36	26°20	20°19	19° 0	6° 4	4°29	28°45	20°29	4°25	27°52	16°23	17° 0	9°39	n.a.	T 26
F 27	12 3 35	2°42'55	10♒35	20°46	20° 8	6°48	4°43	28°47	20°31	4°27	27°53	16°18	16°57	9°46	n.a.	F 27
S 28	12 7 31	3°41'11	24°49	21° 7	21°16	7°31	4°56	28°48	20°32	4°30	27°54	16°11	16°54	9°53	n.a.	S 28
S 29	12 11 28	4°39'26	8♓58	21°23	22°24	8°15	5°10	28°49	20°34	4°32	27°55	16° 2	16°51	9°59	n.a.	S 29
M30	12 15 24	5°37'39	22°58	21°32	23°32	8°58	5°23	28°51	20°35	4°34	27°57	15°51	16°48	10° 6	n.a.	M30
T 31	12 19 21	6♈35'50	6♈43	21°R36	24♒41	9♈42	5♓37	28♐52	20♑37	4♈36	27♈58	15♊40	16♊44	10♋13	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
S 1	8s56	16s 6	4s45	7s14	0s38	20s33	1n28	5s36	0s42	13s 7	1s 6	23s 8	0n34	22s46	0s31	0s17	1s51	2s17	13s52	23n14	23n11	25n10		n.a.	S 1
M 2	8 34	10 54	5 0	6 17	0 28	20 27	1 22	5 18	0 41	13 2	1 6	23 8	0 34	22 46	0 31	0 16	1 51	2 16	13 52	23 13	23 11	25 10		n.a.	M 2
T 3	8 11	5 13	4 57	5 20	0 17	20 22	1 17	5 0	0 41	12 57	1 6	23 8	0 33	22 46	0 31	0 15	1 51	2 16	13 52	23 12	23 11	25 11		n.a.	T 3
W 4	7 49	0n34	4 36	4 21	0 7	20 16	1 12	4 41	0 40	12 52	1 6	23 8	0 33	22 45	0 31	0 14	1 51	2 15	13 52	23 11	23 10	25 11		n.a.	W 4
T 5	7 26	6 10	4 1	3 23	0n 5	20 9	1 7	4 23	0 40	12 47	1 6	23 8	0 33	22 45	0 31	0 13	1 51	2 15	13 51	23 11	23 10	25 12		n.a.	T 5
F 6	7 4	11 20	3 14	2 25	0 16	20 2	1 1	4 5	0 39	12 42	1 6	23 8	0 33	22 45	0 31	0 13	1 51	2 14	13 51	23 10	23 10	25 12		n.a.	F 6
S 7	6 41	15 54	2 19	1 27	0 28	19 54	0 56	3 46	0 38	12 37	1 6	23 8	0 33	22 44	0 31	0 12	1 51	2 14	13 51	23 10	23 10	25 13		n.a.	S 7
S 8	6 18	19 41	1 19	0 30	0 40	19 46	0 51	3 28	0 38	12 32	1 6	23 8	0 33	22 44	0 31	0 11	1 51	2 13	13 51	23 10	23 9	25 13		n.a.	S 8
M 9	5 55	22 34	0 16	0n26	0 51	19 37	0 46	3 10	0 37	12 27	1 6	23 8	0 33	22 44	0 31	0 10	1 51	2 13	13 50	23 10	23 9	25 14		n.a.	M 9
T 10	5 32	24 26	0n46	1 21	1 3	19 27	0 41	2 51	0 37	12 21	1 6	23 8	0 33	22 43	0 31	0 9	1 51	2 12	13 50	23 10	23 9	25 14		n.a.	T 10
W11	5 9	25 12	1 47	2 15	1 15	19 17	0 36	2 33	0 36	12 16	1 7	23 8	0 33	22 43	0 31	0 8	1 51	2 11	13 50	23 9	23 8	25 14		n.a.	W11
T 12	4 46	24 49	2 42	3 7	1 27	19 7	0 32	2 15	0 36	12 11	1 7	23 9	0 33	22 43	0 31	0 7	1 51	2 11	13 50	23 9	23 8	25 15		n.a.	T 12
F 13	4 22	23 18	3 32	3 58	1 38	18 56	0 27	1 56	0 35	12 6	1 7	23 9	0 33	22 42	0 32	0 6	1 51	2 10	13 50	23 9	23 8	25 15		n.a.	F 13
S 14	3 59	20 41	4 12	4 46	1 49	18 44	0 22	1 38	0 34	12 1	1 7	23 9	0 33	22 42	0 32	0 5	1 51	2 10	13 49	23 8	23 8	25 16		n.a.	S 14
S 15	3 36	17 6	4 41	5 32	1 59	18 32	0 18	1 19	0 34	11 56	1 7	23 9	0 33	22 42	0 32	0 5	1 50	2 9	13 49	23 7	23 7	25 16		n.a.	S 15
M16	3 12	12 41	4 57	6 15	2 9	18 19	0 13	1 1	0 33	11 51	1 7	23 9	0 33	22 42	0 32	0 4	1 50	2 9	13 49	23 6	23 7	25 16		n.a.	M16
T 17	2 49	7 37	4 59	6 56	2 18	18 6	0 8	0 43	0 33	11 46	1 7	23 9	0 33	22 41	0 32	0 3	1 50	2 8	13 49	23 4	23 7	25 17		n.a.	T 17
W18	2 26	2 7	4 45	7 34	2 27	17 53	0 4	0 25	0 32	11 41	1 7	23 9	0 33	22 41	0 32	0 2	1 50	2 7	13 49	23 3	23 6	25 17		n.a.	W18
T 19	2 2	3s34	4 15	8 10	2 35	17 38	0s 0	0 6	0 32	11 36	1 7	23 9	0 33	22 41	0 32	0 1	1 50	2 7	13 48	23 2	23 6	25 18		n.a.	T 19
F 20	1 39	9 11	3 30	8 42	2 42	17 24	0 5	0n12	0 31	11 31	1 7	23 9	0 33	22 41	0 32	0 0	1 50	2 6	13 48	23 1	23 6	25 18		n.a.	F 20
S 21	1 15	14 26	2 33	9 12	2 48	17 8	0 9	0 30	0 30	11 26	1 8	23 9	0 33	22 40	0 32	0n 1	1 50	2 6	13 48	23 1	23 5	25 18		n.a.	S 21
S 22	0 52	18 59	1 26	9 38	2 53	16 53	0 13	0 48	0 30	11 22	1 8	23 9	0 33	22 40	0 32	0 2	1 50	2 5	13 48	23 0	23 5	25 19		n.a.	S 22
M23	0 28	22 31	0 13	10 2	2 58	16 37	0 17	1 7	0 29	11 17	1 8	23 9	0 33	22 40	0 32	0 3	1 50	2 5	13 48	23 0	23 5	25 19		n.a.	M23
T 24	0 5	24 43	1s 1	10 22	3 1	16 20	0 21	1 25	0 29	11 12	1 8	23 9	0 33	22 40	0 32	0 4	1 50	2 4	13 48	23 0	23 5	25 19		n.a.	T 24
W25	0n19	25 20	2 12	10 38	3 3	16 3	0 25	1 43	0 28	11 7	1 8	23 9	0 33	22 39	0 32	0 4	1 50	2 3	13 47	23 0	23 4	25 20		n.a.	W25
T 26	0 42	24 18	3 15	10 52	3 4	15 45	0 29	2 1	0 27	11 2	1 8	23 9	0 33	22 39	0 32	0 5	1 50	2 3	13 47	23 0	23 4	25 20		n.a.	T 26
F 27	1 5	21 43	4 6	11 2	3 4	15 27	0 33	2 19	0 27	10 57	1 8	23 9	0 33	22 39	0 32	0 6	1 50	2 2	13 47	23 0	23 4	25 20		n.a.	F 27
S 28	1 29	17 48	4 41	11 9	3 3	15 9	0 36	2 37	0 26	10 52	1 8	23 9	0 33	22 39	0 32	0 7	1 50	2 2	13 47	22 59	23 3	25 21		n.a.	S 28
S 29	1 52	12 55	5 0	11 13	3 1	14 50	0 40	2 55	0 26	10 47	1 8	23 9	0 33	22 38	0 32	0 8	1 50	2 1	13 47	22 58	23 3	25 21		n.a.	S 29
M30	2 16	7 24	5 0	11 13	2 57	14 31	0 44	3 13	0 25	10 42	1 9	23 9	0 33	22 38	0 32	0 9	1 50	2 1	13 47	22 57	23 3	25 21		n.a.	M30
T 31	2n39	1s37	4s42	11n10	2n52	14s11	0s47	3n31	0s24	10s37	1s 9	23s 9	0n33	22s38	0s32	0n10	1s50	2s 0	13s46	22n56	23n 2	25n21		n.a.	T 31

Julian Day Number = 1684226.5, Delta T = 03h13m52s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'17, Lahiri = - 5°21'16 Julian Calendar 1 March 102 BCE == Greg. Calendar 26 Feb. 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

APRIL 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 23 18	7♈33'59	20♈11	21°R35	25♒49	10♈25	5♓50	28♐53	20♑38	4♈39	27♈59	15°R29	16♊41	10♋19	n.a.	W 1
T 2	12 27 14	8°32'07	3♉19	21♈28	26°58	11° 9	6° 3	28°54	20°39	4°41	28° 0	15♊21	16°38	10°26	n.a.	T 2
F 3	12 31 11	9°30'12	16° 6	21°16	28° 6	11°52	6°16	28°55	20°41	4°43	28° 2	15°15	16°35	10°32	n.a.	F 3
S 4	12 35 7	10°28'16	28°34	21° 0	29°15	12°36	6°30	28°56	20°42	4°46	28° 3	15°11	16°32	10°39	n.a.	S 4
S 5	12 39 4	11°26'18	10♊46	20°39	0♓24	13°19	6°43	28°56	20°43	4°48	28° 4	15°D10	16°29	10°46	n.a.	S 5
M 6	12 43 0	12°24'18	22°45	20°15	1°33	14° 2	6°56	28°57	20°44	4°50	28° 6	15°10	16°25	10°52	n.a.	M 6
T 7	12 46 57	13°22'16	4♋37	19°47	2°42	14°45	7° 9	28°57	20°45	4°52	28° 7	15°10	16°22	10°59	n.a.	T 7
W 8	12 50 53	14°20'12	16°26	19°16	3°51	15°28	7°22	28°58	20°46	4°54	28° 8	15°R11	16°19	11° 6	n.a.	W 8
T 9	12 54 50	15°18'06	28°18	18°42	5° 0	16°11	7°35	28°58	20°47	4°57	28°10	15°10	16°16	11°12	n.a.	T 9
F 10	12 58 46	16°15'58	10♌18	18° 7	6° 9	16°54	7°48	28°58	20°48	4°59	28°11	15° 7	16°13	11°19	n.a.	F 10
S 11	13 2 43	17°13'48	22°31	17°31	7°19	17°37	8° 0	28°59	20°49	5° 1	28°12	15° 2	16° 9	11°26	n.a.	S 11
S 12	13 6 40	18°11'37	5♍ 0	16°55	8°28	18°20	8°13	28°R59	20°50	5° 3	28°14	14°55	16° 6	11°32	n.a.	S 12
M13	13 10 36	19° 9'24	17°48	16°18	9°37	19° 3	8°26	28°58	20°51	5° 6	28°15	14°46	16° 3	11°39	n.a.	M13
T 14	13 14 33	20° 7'09	0♎56	15°43	10°47	19°46	8°38	28°58	20°52	5° 8	28°16	14°37	16° 0	11°46	n.a.	T 14
W15	13 18 29	21° 4'52	14°23	15° 8	11°57	20°29	8°51	28°58	20°52	5°10	28°18	14°28	15°57	11°52	n.a.	W15
T 16	13 22 26	22° 2'34	28° 7	14°36	13° 6	21°11	9° 3	28°58	20°53	5°12	28°19	14°20	15°54	11°59	n.a.	T 16
F 17	13 26 22	23° 0'14	12♏ 5	14° 7	14°16	21°54	9°15	28°57	20°54	5°14	28°20	14°14	15°50	12° 6	n.a.	F 17
S 18	13 30 19	23°57'53	26°13	13°40	15°26	22°37	9°28	28°57	20°54	5°17	28°22	14°10	15°47	12°12	n.a.	S 18
S 19	13 34 15	24°55'31	10♐27	13°17	16°35	23°19	9°40	28°56	20°55	5°19	28°23	14°D 9	15°44	12°19	n.a.	S 19
M20	13 38 12	25°53'08	24°43	12°57	17°45	24° 2	9°52	28°55	20°55	5°21	28°24	14° 9	15°41	12°26	n.a.	M20
T 21	13 42 9	26°50'44	8♑58	12°41	18°55	24°44	10° 4	28°54	20°56	5°23	28°26	14°11	15°38	12°32	n.a.	T 21
W22	13 46 5	27°48'19	23° 9	12°30	20° 5	25°26	10°16	28°53	20°56	5°25	28°27	14°R11	15°34	12°39	n.a.	W22
T 23	13 50 2	28°45'53	7♒17	12°23	21°15	26° 9	10°28	28°52	20°56	5°27	28°29	14°11	15°31	12°46	n.a.	T 23
F 24	13 53 58	29°43'25	21°18	12°D20	22°26	26°51	10°40	28°51	20°57	5°29	28°30	14° 9	15°28	12°52	n.a.	F 24
S 25	13 57 55	0♉40'57	5♓12	12°22	23°36	27°33	10°51	28°50	20°57	5°31	28°31	14° 5	15°25	12°59	n.a.	S 25
S 26	14 1 51	1°38'28	18°56	12°28	24°46	28°16	11° 3	28°49	20°57	5°34	28°33	14° 0	15°22	13° 6	n.a.	S 26
M27	14 5 48	2°35'58	2♈30	12°39	25°56	28°58	11°15	28°47	20°57	5°36	28°34	13°54	15°19	13°12	n.a.	M27
T 28	14 9 44	3°33'26	15°50	12°55	27° 7	29°40	11°26	28°46	20°57	5°38	28°35	13°47	15°15	13°19	n.a.	T 28
W29	14 13 41	4°30'54	28°55	13°14	28°17	0♉22	11°37	28°44	20°R57	5°40	28°37	13°41	15°12	13°26	n.a.	W29
T 30	14 17 38	5♉28'20	11♉45	13♈38	29♓28	1♉ 4	11♓49	28♐43	20♑57	5♈42	28♈38	13♊35	15♊ 9	13♋32	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	3n 2	4n 8	4s 9	11n 3	2n45	13s51	0s50	3n48	0s24	10s32	1s 9	23s 9	0n33	22s38	0s32	0n11	1s50	1s59	13s46	22n54	23n 2	25n22		n.a.
T 2	3 25	9 34	3 23	10 54	2 38	13 30	0 54	4 6	0 23	10 28	1 9	23 9	0 33	22 38	0 32	0 12	1 50	1 59	13 46	22 54	23 2	25 22		n.a.
F 3	3 48	14 29	2 28	10 41	2 29	13 9	0 57	4 24	0 23	10 23	1 9	23 10	0 33	22 38	0 32	0 13	1 50	1 58	13 46	22 53	23 1	25 22		n.a.
S 4	4 11	18 39	1 27	10 25	2 19	12 48	1 0	4 42	0 22	10 18	1 9	23 10	0 33	22 37	0 32	0 13	1 50	1 58	13 46	22 52	23 1	25 23		n.a.
S 5	4 34	21 55	0 23	10 7	2 7	12 26	1 3	4 59	0 21	10 13	1 9	23 10	0 33	22 37	0 32	0 14	1 50	1 57	13 46	22 52	23 1	25 23		n.a.
M 6	4 57	24 11	0n41	9 46	1 55	12 4	1 6	5 17	0 21	10 8	1 10	23 10	0 33	22 37	0 32	0 15	1 50	1 57	13 46	22 52	23 0	25 23		n.a.
T 7	5 20	25 20	1 42	9 23	1 41	11 42	1 9	5 34	0 20	10 4	1 10	23 10	0 33	22 37	0 32	0 16	1 50	1 56	13 46	22 52	23 0	25 23		n.a.
W 8	5 43	25 19	2 39	8 58	1 27	11 19	1 11	5 51	0 20	9 59	1 10	23 10	0 33	22 37	0 32	0 17	1 50	1 56	13 46	22 52	23 0	25 24		n.a.
T 9	6 5	24 9	3 30	8 31	1 12	10 56	1 14	6 9	0 19	9 54	1 10	23 10	0 33	22 37	0 32	0 18	1 51	1 55	13 45	22 52	22 59	25 24		n.a.
F 10	6 28	21 53	4 11	8 2	0 56	10 32	1 17	6 26	0 18	9 49	1 10	23 10	0 33	22 37	0 32	0 19	1 51	1 54	13 45	22 52	22 59	25 24		n.a.
S 11	6 50	18 36	4 42	7 33	0 39	10 9	1 19	6 43	0 18	9 45	1 10	23 10	0 32	22 37	0 32	0 20	1 51	1 54	13 45	22 51	22 59	25 24		n.a.
S 12	7 13	14 26	5 1	7 4	0 22	9 45	1 22	7 0	0 17	9 40	1 10	23 10	0 32	22 36	0 32	0 21	1 51	1 53	13 45	22 51	22 58	25 24		n.a.
M13	7 35	9 33	5 5	6 34	0 5	9 20	1 24	7 17	0 17	9 35	1 11	23 10	0 32	22 36	0 32	0 21	1 51	1 53	13 45	22 50	22 58	25 25		n.a.
T 14	7 57	4 6	4 53	6 4	0s12	8 56	1 26	7 34	0 16	9 31	1 11	23 10	0 32	22 36	0 33	0 22	1 51	1 52	13 45	22 49	22 58	25 25		n.a.
W15	8 19	1s40	4 25	5 35	0 29	8 31	1 28	7 51	0 15	9 26	1 11	23 10	0 32	22 36	0 33	0 23	1 51	1 52	13 45	22 47	22 57	25 25		n.a.
T 16	8 41	7 29	3 41	5 7	0 46	8 6	1 30	8 8	0 15	9 22	1 11	23 10	0 32	22 36	0 33	0 24	1 51	1 51	13 45	22 47	22 57	25 25		n.a.
F 17	9 2	13 2	2 44	4 40	1 2	7 41	1 32	8 24	0 14	9 17	1 11	23 10	0 32	22 36	0 33	0 25	1 51	1 51	13 45	22 46	22 57	25 25		n.a.
S 18	9 24	17 59	1 35	4 15	1 18	7 15	1 34	8 41	0 13	9 13	1 11	23 10	0 32	22 36	0 33	0 26	1 51	1 50	13 45	22 45	22 56	25 25		n.a.
S 19	9 45	21 56	0 20	3 52	1 33	6 49	1 36	8 58	0 13	9 8	1 12	23 10	0 32	22 36	0 33	0 27	1 51	1 50	13 45	22 45	22 56	25 26		n.a.
M20	10 7	24 33	0s57	3 31	1 47	6 23	1 37	9 14	0 12	9 4	1 12	23 10	0 32	22 36	0 33	0 27	1 51	1 49	13 45	22 45	22 56	25 26		n.a.
T 21	10 28	25 34	2 10	3 13	2 1	5 57	1 39	9 30	0 12	8 59	1 12	23 10	0 32	22 36	0 33	0 28	1 51	1 49	13 45	22 45	22 55	25 26		n.a.
W22	10 49	24 54	3 15	2 57	2 14	5 30	1 41	9 47	0 11	8 55	1 12	23 10	0 32	22 36	0 33	0 29	1 51	1 48	13 45	22 46	22 55	25 26		n.a.
T 23	11 9	22 39	4 8	2 43	2 25	5 4	1 42	10 3	0 10	8 50	1 12	23 10	0 32	22 36	0 33	0 30	1 51	1 48	13 45	22 46	22 55	25 26		n.a.
F 24	11 30	19 3	4 45	2 32	2 36	4 37	1 43	10 19	0 10	8 46	1 12	23 10	0 32	22 36	0 33	0 31	1 51	1 47	13 45	22 45	22 54	25 26		n.a.
S 25	11 50	14 26	5 5	2 24	2 46	4 10	1 44	10 35	0 9	8 42	1 13	23 10	0 32	22 36	0 33	0 32	1 51	1 47	13 45	22 45	22 54	25 26		n.a.
S 26	12 11	9 8	5 8	2 18	2 55	3 43	1 46	10 50	0 9	8 37	1 13	23 10	0 32	22 36	0 33	0 32	1 51	1 46	13 45	22 44	22 54	25 27		n.a.
M27	12 31	3 28	4 53	2 15	3 2	3 16	1 47	11 6	0 8	8 33	1 13	23 10	0 32	22 36	0 33	0 33	1 51	1 46	13 45	22 43	22 53	25 27		n.a.
T 28	12 50	2n16	4 22	2 15	3 9	2 48	1 48	11 22	0 7	8 29	1 13	23 10	0 32	22 36	0 33	0 34	1 51	1 45	13 45	22 43	22 53	25 27		n.a.
W29	13 10	7 49	3 38	2 18	3 15	2 21	1 48	11 37	0 7	8 25	1 13	23 10	0 32	22 36	0 33	0 35	1 51	1 45	13 45	22 42	22 53	25 27		n.a.
T 30	13n30	12n56	2s44	2n23	3s20	1s53	1s49	11n53	0s 6	8s21	1s14	23s10	0n32	22s36	0s33	0n35	1s51	1s44	13s45	22n41	22n52	25n27		n.a.

Julian Day Number = 1684257.5, Delta T = 03h13m51s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'13, Lahiri = - 5°21'12 Julian Calendar 1 Apr. 102 BCE == Greg. Calendar 29 March 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

MAY 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 21 34	6♉25'46	24♉19	14♈ 7	0♈38	1♉46	12♓ 0	28°R41	20°R57	5♈44	28♈39	13°R32	15♊ 6	13♋39	n.a.	F 1
S 2	14 25 31	7°23'10	6♊39	14°39	1°49	2°28	12°11	28♐39	20♑57	5°46	28°41	13♊30	15° 3	13°46	n.a.	S 2
S 3	14 29 27	8°20'34	18°45	15°16	2°59	3°10	12°22	28°37	20°57	5°48	28°42	13°D30	15° 0	13°52	n.a.	S 3
M 4	14 33 24	9°17'56	0♋42	15°57	4°10	3°51	12°33	28°35	20°57	5°50	28°43	13°31	14°56	13°59	n.a.	M 4
T 5	14 37 20	10°15'17	12°33	16°41	5°21	4°33	12°44	28°33	20°56	5°52	28°45	13°33	14°53	14° 6	n.a.	T 5
W 6	14 41 17	11°12'37	24°22	17°29	6°31	5°15	12°54	28°31	20°56	5°54	28°46	13°35	14°50	14°12	n.a.	W 6
T 7	14 45 13	12° 9'55	6♌15	18°21	7°42	5°57	13° 5	28°28	20°56	5°55	28°47	13°36	14°47	14°19	n.a.	T 7
F 8	14 49 10	13° 7'13	18°15	19°17	8°53	6°38	13°15	28°26	20°55	5°57	28°49	13°R36	14°44	14°26	n.a.	F 8
S 9	14 53 7	14° 4'29	0♍28	20°16	10° 4	7°20	13°26	28°23	20°55	5°59	28°50	13°34	14°40	14°32	n.a.	S 9
S 10	14 57 3	15° 1'45	12°59	21°18	11°15	8° 1	13°36	28°21	20°54	6° 1	28°51	13°32	14°37	14°39	n.a.	S 10
M11	15 1 0	15°58'59	25°50	22°24	12°26	8°43	13°46	28°18	20°54	6° 3	28°53	13°29	14°34	14°46	n.a.	M11
T 12	15 4 56	16°56'12	9♎ 4	23°33	13°36	9°24	13°56	28°16	20°53	6° 5	28°54	13°25	14°31	14°52	n.a.	T 12
W13	15 8 53	17°53'25	22°42	24°45	14°48	10° 5	14° 6	28°13	20°53	6° 7	28°55	13°21	14°28	14°59	n.a.	W13
T 14	15 12 49	18°50'36	6♏41	26° 1	15°59	10°47	14°16	28°10	20°52	6° 8	28°57	13°18	14°25	15° 6	n.a.	T 14
F 15	15 16 46	19°47'47	21° 0	27°19	17°10	11°28	14°26	28° 7	20°51	6°10	28°58	13°16	14°21	15°12	n.a.	F 15
S 16	15 20 42	20°44'58	5♐32	28°41	18°21	12° 9	14°35	28° 4	20°50	6°12	28°59	13°14	14°18	15°19	n.a.	S 16
S 17	15 24 39	21°42'08	20°11	0♑ 6	19°32	12°50	14°45	28° 1	20°49	6°14	29° 0	13°D14	14°15	15°26	n.a.	S 17
M18	15 28 36	22°39'17	4♑51	1°34	20°43	13°32	14°54	27°58	20°49	6°15	29° 2	13°15	14°12	15°32	n.a.	M18
T 19	15 32 32	23°36'27	19°27	3° 5	21°55	14°13	15° 3	27°55	20°48	6°17	29° 3	13°16	14° 9	15°39	n.a.	T 19
W20	15 36 29	24°33'36	3♒53	4°39	23° 6	14°54	15°12	27°52	20°47	6°19	29° 4	13°18	14° 6	15°46	n.a.	W20
T 21	15 40 25	25°30'45	18° 7	6°16	24°17	15°35	15°21	27°48	20°46	6°20	29° 5	13°18	14° 2	15°52	n.a.	T 21
F 22	15 44 22	26°27'53	2♓ 6	7°55	25°29	16°16	15°30	27°45	20°45	6°22	29° 7	13°R18	13°59	15°59	n.a.	F 22
S 23	15 48 18	27°25'02	15°49	9°38	26°40	16°57	15°39	27°41	20°44	6°23	29° 8	13°18	13°56	16° 6	n.a.	S 23
S 24	15 52 15	28°22'11	29°17	11°24	27°52	17°37	15°48	27°38	20°42	6°25	29° 9	13°16	13°53	16°12	n.a.	S 24
M25	15 56 12	29°19'19	12♈29	13°12	29° 3	18°18	15°56	27°34	20°41	6°26	29°10	13°15	13°50	16°19	n.a.	M25
T 26	16 0 8	0♊16'28	25°27	15° 3	0♉15	18°59	16° 4	27°31	20°40	6°28	29°11	13°13	13°46	16°26	n.a.	T 26
W27	16 4 5	1°13'36	8♉10	16°57	1°26	19°40	16°13	27°27	20°39	6°29	29°13	13°11	13°43	16°32	n.a.	W27
T 28	16 8 1	2°10'44	20°41	18°53	2°38	20°20	16°21	27°23	20°38	6°31	29°14	13°10	13°40	16°39	n.a.	T 28
F 29	16 11 58	3° 7'52	2♊59	20°52	3°50	21° 1	16°29	27°19	20°36	6°32	29°15	13° 9	13°37	16°46	n.a.	F 29
S 30	16 15 54	4° 5'01	15° 7	22°52	5° 2	21°42	16°36	27°16	20°35	6°34	29°16	13°D 9	13°34	16°52	n.a.	S 30
S 31	16 19 51	5♊ 2'09	27♊ 6	24♉55	6♉13	22♉22	16♓44	27♐12	20♑33	6♈35	29♈17	13♊ 9	13♊31	16♋59	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	13n49	17n24	1s43	2n30	3s23	1s25	1s50	12n 8	0s 5	8s16	1s14	23s10	0n32	22s36	0s33	0n36	1s51	1s44	13s45	22n41	22n52	25n27		n.a.	
S 2	14 8	21 3	0 37	2 41	3 26	0 57	1 50	12 23	0 5	8 12	1 14	23 10	0 32	22 36	0 33	0 37	1 51	1 43	13 45	22 41	22 52	25 27		n.a.	
S 3	14 27	23 42	0n29	2 53	3 28	0 30	1 51	12 38	0 4	8 8	1 14	23 10	0 32	22 36	0 33	0 38	1 51	1 43	13 45	22 41	22 51	25 27		n.a.	
M 4	14 45	25 15	1 33	3 8	3 29	0 2	1 51	12 53	0 4	8 4	1 14	23 10	0 32	22 36	0 33	0 39	1 51	1 43	13 45	22 41	22 51	25 27		n.a.	
T 5	15 4	25 38	2 32	3 25	3 29	0n26	1 52	13 8	0 3	8 0	1 15	23 10	0 32	22 36	0 33	0 39	1 51	1 42	13 45	22 41	22 50	25 27		n.a.	
W 6	15 22	24 51	3 25	3 44	3 29	0 54	1 52	13 23	0 2	7 56	1 15	23 10	0 32	22 36	0 33	0 40	1 51	1 42	13 45	22 41	22 50	25 27		n.a.	
T 7	15 40	22 57	4 10	4 5	3 27	1 23	1 52	13 37	0 2	7 52	1 15	23 10	0 32	22 36	0 33	0 41	1 51	1 41	13 45	22 41	22 50	25 27		n.a.	
F 8	15 57	20 1	4 44	4 28	3 25	1 51	1 52	13 52	0 1	7 49	1 15	23 10	0 31	22 36	0 33	0 41	1 51	1 41	13 45	22 41	22 49	25 27		n.a.	
S 9	16 14	16 11	5 5	4 54	3 22	2 19	1 52	14 6	0 1	7 45	1 16	23 10	0 31	22 37	0 33	0 42	1 51	1 40	13 45	22 41	22 49	25 27		n.a.	
S 10	16 32	11 34	5 13	5 21	3 18	2 47	1 52	14 20	0n 0	7 41	1 16	23 10	0 31	22 37	0 33	0 43	1 51	1 40	13 45	22 41	22 49	25 27		n.a.	
M11	16 48	6 21	5 6	5 49	3 14	3 15	1 52	14 34	0 1	7 37	1 16	23 10	0 31	22 37	0 33	0 44	1 51	1 40	13 45	22 40	22 48	25 27		n.a.	
T 12	17 5	0 42	4 43	6 20	3 9	3 43	1 52	14 48	0 1	7 33	1 16	23 11	0 31	22 37	0 33	0 44	1 51	1 39	13 45	22 40	22 48	25 27		n.a.	
W13	17 21	5s10	4 3	6 52	3 3	4 11	1 51	15 2	0 2	7 30	1 16	23 11	0 31	22 37	0 33	0 45	1 51	1 39	13 45	22 39	22 48	25 27		n.a.	
T 14	17 37	10 57	3 8	7 25	2 56	4 39	1 51	15 16	0 3	7 26	1 17	23 11	0 31	22 37	0 34	0 46	1 52	1 38	13 45	22 39	22 47	25 27		n.a.	
F 15	17 53	16 17	1 59	8 0	2 50	5 7	1 50	15 29	0 3	7 23	1 17	23 11	0 31	22 37	0 34	0 46	1 52	1 38	13 45	22 39	22 47	25 27		n.a.	
S 16	18 8	20 46	0 42	8 36	2 42	5 35	1 50	15 43	0 4	7 19	1 17	23 11	0 31	22 38	0 34	0 47	1 52	1 38	13 45	22 39	22 46	25 27		n.a.	
S 17	18 24	23 58	0s38	9 14	2 34	6 3	1 49	15 56	0 4	7 16	1 17	23 11	0 31	22 38	0 34	0 48	1 52	1 37	13 45	22 39	22 46	25 27		n.a.	
M18	18 38	25 33	1 56	9 53	2 25	6 30	1 48	16 9	0 5	7 12	1 18	23 11	0 31	22 38	0 34	0 48	1 52	1 37	13 45	22 39	22 46	25 27		n.a.	
T 19	18 53	25 22	3 7	10 33	2 16	6 58	1 48	16 22	0 6	7 9	1 18	23 11	0 31	22 38	0 34	0 49	1 52	1 37	13 45	22 39	22 45	25 27		n.a.	
W20	19 7	23 27	4 4	11 13	2 7	7 25	1 47	16 35	0 6	7 5	1 18	23 11	0 31	22 38	0 34	0 49	1 52	1 36	13 45	22 39	22 45	25 27		n.a.	
T 21	19 21	20 6	4 46	11 55	1 57	7 53	1 46	16 48	0 7	7 2	1 18	23 11	0 31	22 38	0 34	0 50	1 52	1 36	13 46	22 39	22 44	25 27		n.a.	
F 22	19 35	15 39	5 10	12 37	1 47	8 20	1 45	17 0	0 7	6 59	1 19	23 11	0 31	22 39	0 34	0 51	1 52	1 36	13 46	22 39	22 44	25 27		n.a.	
S 23	19 48	10 29	5 16	13 20	1 36	8 47	1 44	17 13	0 8	6 56	1 19	23 11	0 31	22 39	0 34	0 51	1 52	1 35	13 46	22 39	22 44	25 27		n.a.	
S 24	20 1	4 55	5 4	14 4	1 26	9 14	1 43	17 25	0 9	6 53	1 19	23 11	0 31	22 39	0 34	0 52	1 52	1 35	13 46	22 39	22 43	25 27		n.a.	
M25	20 14	0n46	4 36	14 48	1 14	9 41	1 41	17 37	0 9	6 49	1 19	23 11	0 31	22 39	0 34	0 52	1 52	1 35	13 46	22 39	22 43	25 27		n.a.	
T 26	20 26	6 19	3 54	15 32	1 3	10 7	1 40	17 49	0 10	6 46	1 20	23 11	0 31	22 39	0 34	0 53	1 52	1 34	13 46	22 38	22 43	25 27		n.a.	
W27	20 38	11 31	3 2	16 16	0 52	10 34	1 39	18 1	0 10	6 43	1 20	23 11	0 30	22 40	0 34	0 54	1 52	1 34	13 46	22 38	22 42	25 27		n.a.	
T 28	20 50	16 10	2 1	16 59	0 40	11 0	1 37	18 13	0 11	6 41	1 20	23 11	0 30	22 40	0 34	0 54	1 52	1 34	13 46	22 38	22 42	25 26		n.a.	
F 29	21 1	20 4	0 56	17 42	0 29	11 26	1 36	18 24	0 12	6 38	1 20	23 11	0 30	22 40	0 34	0 55	1 52	1 33	13 46	22 38	22 41	25 26		n.a.	
S 30	21 12	23 3	0n11	18 25	0 17	11 52	1 34	18 35	0 12	6 35	1 21	23 11	0 30	22 40	0 34	0 55	1 52	1 33	13 47	22 38	22 41	25 26		n.a.	
S 31	21n23	24n57	1n17	19n 7	0s 6	12n17	1s33	18n47	0n13	6s32	1s21	23s10	0n30	22s41	0s34	0n56	1s52	1s33	13s47	22n38	22n41	25n26		n.a.	

Julian Day Number = 1684287.5, Delta T = 03h13m50s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'08, Lahiri = - 5°21'08 Julian Calendar 1 May 102 BCE == Greg. Calendar 28 Apr. 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

JUNE 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 23 47	5♊59'16	8♋59	27♉ 0	7♉25	23♉ 3	16♓52	27°R 8	20°R32	6♈37	29♈18	13♊10	13♊27	17♋ 6	n.a.	M 1
T 2	16 27 44	6°56'24	20°48	29° 6	8°37	23°43	16°59	27♐ 4	20♑30	6°38	29°20	13°11	13°24	17°12	n.a.	T 2
W 3	16 31 41	7°53'31	2♌37	1♊14	9°49	24°24	17° 6	27° 0	20°29	6°39	29°21	13°11	13°21	17°19	n.a.	W 3
T 4	16 35 37	8°50'39	14°30	3°23	11° 1	25° 4	17°13	26°56	20°27	6°40	29°22	13°12	13°18	17°26	n.a.	T 4
F 5	16 39 34	9°47'46	26°30	5°32	12°13	25°44	17°20	26°52	20°26	6°42	29°23	13°12	13°15	17°32	n.a.	F 5
S 6	16 43 30	10°44'52	8♍41	7°42	13°25	26°24	17°27	26°47	20°24	6°43	29°24	13°R12	13°12	17°39	n.a.	S 6
S 7	16 47 27	11°41'59	21°10	9°52	14°37	27° 5	17°33	26°43	20°22	6°44	29°25	13°12	13° 8	17°46	n.a.	S 7
M 8	16 51 23	12°39'05	3♎58	12° 2	15°49	27°45	17°40	26°39	20°21	6°45	29°26	13°12	13° 5	17°52	n.a.	M 8
T 9	16 55 20	13°36'12	17°11	14°11	17° 1	28°25	17°46	26°35	20°19	6°46	29°27	13°D12	13° 2	17°59	n.a.	T 9
W10	16 59 16	14°33'18	0♏49	16°20	18°13	29° 5	17°52	26°31	20°17	6°47	29°28	13°12	12°59	18° 6	n.a.	W10
T 11	17 3 13	15°30'25	14°53	18°28	19°25	29°45	17°58	26°26	20°15	6°49	29°29	13°12	12°56	18°12	n.a.	T 11
F 12	17 7 10	16°27'32	29°20	20°36	20°37	0♊25	18° 4	26°22	20°14	6°50	29°30	13°12	12°52	18°19	n.a.	F 12
S 13	17 11 6	17°24'39	14♐ 7	22°42	21°50	1° 5	18°10	26°18	20°12	6°51	29°31	13°R13	12°49	18°26	n.a.	S 13
S 14	17 15 3	18°21'46	29° 6	24°46	23° 2	1°45	18°15	26°13	20°10	6°52	29°32	13°12	12°46	18°32	n.a.	S 14
M15	17 18 59	19°18'54	14♑ 9	26°50	24°14	2°25	18°21	26° 9	20° 8	6°53	29°33	13°12	12°43	18°39	n.a.	M15
T 16	17 22 56	20°16'02	29° 7	28°51	25°27	3° 5	18°26	26° 4	20° 6	6°54	29°34	13°11	12°40	18°46	n.a.	T 16
W17	17 26 52	21°13'11	13♒53	0♋51	26°39	3°45	18°31	26° 0	20° 4	6°54	29°35	13°11	12°37	18°52	n.a.	W17
T 18	17 30 49	22°10'21	28°20	2°50	27°52	4°24	18°36	25°56	20° 2	6°55	29°36	13°10	12°33	18°59	n.a.	T 18
F 19	17 34 46	23° 7'32	12♓26	4°47	29° 4	5° 4	18°40	25°51	20° 0	6°56	29°37	13° 9	12°30	19° 6	n.a.	F 19
S 20	17 38 42	24° 4'43	26° 9	6°42	0♊17	5°44	18°45	25°47	19°58	6°57	29°37	13°D 9	12°27	19°12	n.a.	S 20
S 21	17 42 39	25° 1'55	9♈30	8°35	1°29	6°23	18°49	25°42	19°56	6°58	29°38	13° 9	12°24	19°19	n.a.	S 21
M22	17 46 35	25°59'08	22°30	10°26	2°42	7° 3	18°53	25°38	19°54	6°58	29°39	13°10	12°21	19°26	n.a.	M22
T 23	17 50 32	26°56'22	5♉12	12°16	3°54	7°43	18°57	25°34	19°52	6°59	29°40	13°11	12°18	19°32	n.a.	T 23
W24	17 54 28	27°53'37	17°39	14° 4	5° 7	8°22	19° 1	25°29	19°49	7° 0	29°41	13°12	12°14	19°39	n.a.	W24
T 25	17 58 25	28°50'53	29°53	15°50	6°20	9° 2	19° 4	25°25	19°47	7° 1	29°42	13°13	12°11	19°46	n.a.	T 25
F 26	18 2 21	29°48'10	11♊58	17°35	7°33	9°41	19° 8	25°20	19°45	7° 1	29°42	13°R14	12° 8	19°52	n.a.	F 26
S 27	18 6 18	0♋45'28	23°56	19°18	8°46	10°21	19°11	25°16	19°43	7° 2	29°43	13°14	12° 5	19°59	n.a.	S 27
S 28	18 10 15	1°42'47	5♋48	20°59	9°58	11° 0	19°14	25°11	19°41	7° 2	29°44	13°12	12° 2	20° 6	n.a.	S 28
M29	18 14 11	2°40'06	17°38	22°38	11°11	11°39	19°17	25° 7	19°38	7° 3	29°44	13°10	11°58	20°13	n.a.	M29
T 30	18 18 8	3♋37'26	29♋27	24♋15	12♊24	12♊19	19♓19	25♐ 3	19♑36	7♈ 3	29♈45	13♊ 7	11♊55	20♋19	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	21n33	25n42	2n19	19n47	0n 5	12n42	1s31	18n58	0n13	6s29	1s21	23s10	0n30	22s41	0s34	0n56	1s52	1s33	13s47	22n38	22n40	25n26		n.a.
T 2	21 43	25 16	3 14	20 26	0 16	13 7	1 29	19 8	0 14	6 27	1 21	23 10	0 30	22 41	0 34	0 57	1 52	1 32	13 47	22 38	22 40	25 26		n.a.
W 3	21 52	23 42	4 1	21 4	0 26	13 32	1 28	19 19	0 15	6 24	1 22	23 10	0 30	22 41	0 34	0 57	1 53	1 32	13 47	22 38	22 39	25 26		n.a.
T 4	22 1	21 6	4 39	21 40	0 36	13 56	1 26	19 30	0 15	6 22	1 22	23 10	0 30	22 42	0 34	0 57	1 53	1 32	13 47	22 38	22 39	25 26		n.a.
F 5	22 10	17 35	5 4	22 13	0 46	14 20	1 24	19 40	0 16	6 19	1 22	23 10	0 30	22 42	0 34	0 58	1 53	1 32	13 47	22 38	22 39	25 25		n.a.
S 6	22 19	13 17	5 16	22 45	0 55	14 44	1 22	19 50	0 17	6 17	1 23	23 10	0 30	22 42	0 34	0 58	1 53	1 32	13 48	22 38	22 38	25 25		n.a.
S 7	22 27	8 21	5 14	23 13	1 3	15 8	1 20	20 0	0 17	6 14	1 23	23 10	0 30	22 42	0 34	0 59	1 53	1 31	13 48	22 38	22 38	25 25		n.a.
M 8	22 34	2 56	4 57	23 40	1 11	15 31	1 18	20 10	0 18	6 12	1 23	23 10	0 30	22 43	0 34	0 59	1 53	1 31	13 48	22 38	22 37	25 25		n.a.
T 9	22 41	2s46	4 23	24 4	1 19	15 53	1 16	20 20	0 18	6 10	1 23	23 10	0 30	22 43	0 34	1 0	1 53	1 31	13 48	22 38	22 37	25 25		n.a.
W10	22 48	8 32	3 34	24 25	1 25	16 16	1 14	20 29	0 19	6 8	1 24	23 10	0 29	22 43	0 34	1 0	1 53	1 31	13 48	22 38	22 37	25 24		n.a.
T 11	22 55	14 5	2 31	24 43	1 31	16 38	1 12	20 39	0 20	6 6	1 24	23 10	0 29	22 44	0 34	1 0	1 53	1 31	13 48	22 38	22 36	25 24		n.a.
F 12	23 1	19 0	1 16	24 58	1 36	16 59	1 10	20 48	0 20	6 4	1 24	23 10	0 29	22 44	0 34	1 1	1 53	1 30	13 49	22 38	22 36	25 24		n.a.
S 13	23 6	22 50	0s 5	25 11	1 41	17 20	1 8	20 57	0 21	6 2	1 25	23 10	0 29	22 44	0 34	1 1	1 53	1 30	13 49	22 38	22 35	25 24		n.a.
S 14	23 12	25 9	1 27	25 21	1 44	17 41	1 5	21 5	0 21	6 0	1 25	23 10	0 29	22 44	0 34	1 1	1 53	1 30	13 49	22 38	22 35	25 24		n.a.
M15	23 16	25 39	2 43	25 28	1 47	18 1	1 3	21 14	0 22	5 58	1 25	23 10	0 29	22 45	0 34	1 2	1 53	1 30	13 49	22 38	22 35	25 23		n.a.
T 16	23 21	24 17	3 48	25 32	1 50	18 21	1 1	21 23	0 23	5 56	1 26	23 10	0 29	22 45	0 34	1 2	1 53	1 30	13 49	22 38	22 34	25 23		n.a.
W17	23 25	21 15	4 37	25 34	1 51	18 41	0 58	21 31	0 23	5 54	1 26	23 10	0 29	22 45	0 34	1 2	1 53	1 30	13 50	22 38	22 34	25 23		n.a.
T 18	23 28	16 58	5 7	25 33	1 52	19 0	0 56	21 39	0 24	5 53	1 26	23 10	0 29	22 46	0 34	1 3	1 53	1 30	13 50	22 38	22 33	25 23		n.a.
F 19	23 32	11 50	5 17	25 30	1 53	19 18	0 54	21 47	0 24	5 51	1 26	23 10	0 29	22 46	0 34	1 3	1 54	1 29	13 50	22 38	22 33	25 22		n.a.
S 20	23 34	6 15	5 9	25 24	1 52	19 36	0 51	21 55	0 25	5 50	1 27	23 10	0 29	22 46	0 35	1 3	1 54	1 29	13 50	22 38	22 33	25 22		n.a.
S 21	23 37	0 33	4 44	25 17	1 51	19 54	0 49	22 2	0 25	5 48	1 27	23 10	0 29	22 47	0 35	1 3	1 54	1 29	13 50	22 38	22 32	25 22		n.a.
M22	23 39	5n 3	4 5	25 7	1 50	20 11	0 46	22 10	0 26	5 47	1 27	23 10	0 28	22 47	0 35	1 4	1 54	1 29	13 51	22 38	22 32	25 21		n.a.
T 23	23 40	10 20	3 15	24 55	1 48	20 27	0 44	22 17	0 27	5 46	1 28	23 10	0 28	22 47	0 35	1 4	1 54	1 29	13 51	22 38	22 31	25 21		n.a.
W24	23 41	15 6	2 17	24 42	1 45	20 43	0 41	22 24	0 27	5 44	1 28	23 10	0 28	22 48	0 35	1 4	1 54	1 29	13 51	22 38	22 31	25 21		n.a.
T 25	23 42	19 10	1 13	24 26	1 42	20 58	0 39	22 31	0 28	5 43	1 28	23 9	0 28	22 48	0 35	1 4	1 54	1 29	13 51	22 38	22 30	25 21		n.a.
F 26	23 42	22 22	0 7	24 9	1 38	21 13	0 36	22 37	0 28	5 42	1 29	23 9	0 28	22 48	0 35	1 4	1 54	1 29	13 51	22 39	22 30	25 20		n.a.
S 27	23 42	24 33	0n59	23 51	1 34	21 27	0 34	22 44	0 29	5 41	1 29	23 9	0 28	22 49	0 35	1 5	1 54	1 29	13 52	22 39	22 30	25 20		n.a.
S 28	23 42	25 36	2 1	23 31	1 29	21 41	0 31	22 50	0 30	5 40	1 29	23 9	0 28	22 49	0 35	1 5	1 54	1 29	13 52	22 38	22 29	25 20		n.a.
M29	23 41	25 29	2 59	23 10	1 24	21 54	0 29	22 56	0 30	5 40	1 30	23 9	0 28	22 49	0 35	1 5	1 54	1 29	13 52	22 38	22 29	25 19		n.a.
T 30	23n39	24n12	3n48	22n47	1n18	22n 6	0s26	23n 2	0n31	5s39	1s30	23s 9	0n28	22s50	0s35	1n 5	1s54	1s29	13s52	22n38	22n28	25n19		n.a.

Julian Day Number = 1684318.5, Delta T = 03h13m49s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'04, Lahiri = - 5°21'04 Julian Calendar 1 June 102 BCE == Greg. Calendar 29 May 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

JULY 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 22 4	4♋34'47	11♌17	25♋51	13♊37	12♊58	19♓22	24°R58	19°R34	7♈ 4	29♈46	13°R 4	11♊52	20♋26	n.a.	W 1
T 2	18 26 1	5°32'09	23°11	27°25	14°50	13°37	19°24	24♐54	19♑31	7° 4	29°47	13♊ 0	11°49	20°33	n.a.	T 2
F 3	18 29 57	6°29'31	5♍13	28°58	16° 3	14°16	19°26	24°50	19°29	7° 5	29°47	12°57	11°46	20°39	n.a.	F 3
S 4	18 33 54	7°26'55	17°25	0♌28	17°16	14°55	19°28	24°45	19°27	7° 5	29°48	12°55	11°43	20°46	n.a.	S 4
S 5	18 37 50	8°24'19	29°51	1°57	18°29	15°34	19°30	24°41	19°24	7° 5	29°48	12°53	11°39	20°53	n.a.	S 5
M 6	18 41 47	9°21'44	12♎35	3°24	19°43	16°13	19°31	24°37	19°22	7° 6	29°49	12°D53	11°36	20°59	n.a.	M 6
T 7	18 45 44	10°19'09	25°42	4°49	20°56	16°52	19°33	24°33	19°20	7° 6	29°50	12°54	11°33	21° 6	n.a.	T 7
W 8	18 49 40	11°16'36	9♏13	6°12	22° 9	17°31	19°34	24°29	19°17	7° 6	29°50	12°55	11°30	21°13	n.a.	W 8
T 9	18 53 37	12°14'03	23°10	7°34	23°22	18°10	19°35	24°25	19°15	7° 6	29°51	12°57	11°27	21°19	n.a.	T 9
F 10	18 57 33	13°11'32	7♐35	8°53	24°36	18°49	19°35	24°20	19°13	7° 6	29°51	12°R58	11°24	21°26	n.a.	F 10
S 11	19 1 30	14° 9'01	22°22	10°11	25°49	19°28	19°36	24°16	19°10	7° 7	29°52	12°57	11°20	21°33	n.a.	S 11
S 12	19 5 26	15° 6'32	7♑28	11°26	27° 2	20° 7	19°36	24°12	19° 8	7° 7	29°52	12°56	11°17	21°39	n.a.	S 12
M13	19 9 23	16° 4'04	22°42	12°40	28°16	20°46	19°R36	24° 8	19° 6	7° 7	29°53	12°53	11°14	21°46	n.a.	M13
T 14	19 13 20	17° 1'37	7♒56	13°51	29°29	21°24	19°36	24° 5	19° 3	7°R 7	29°53	12°48	11°11	21°53	n.a.	T 14
W15	19 17 16	17°59'11	22°58	15° 0	0♋43	22° 3	19°36	24° 1	19° 1	7° 7	29°53	12°43	11° 8	21°59	n.a.	W15
T 16	19 21 13	18°56'47	7♓41	16° 7	1°56	22°42	19°36	23°57	18°58	7° 7	29°54	12°38	11° 4	22° 6	n.a.	T 16
F 17	19 25 9	19°54'25	21°59	17°12	3°10	23°20	19°35	23°53	18°56	7° 7	29°54	12°35	11° 1	22°13	n.a.	F 17
S 18	19 29 6	20°52'04	5♈48	18°14	4°23	23°59	19°34	23°49	18°54	7° 7	29°55	12°32	10°58	22°19	n.a.	S 18
S 19	19 33 2	21°49'45	19°10	19°13	5°37	24°38	19°33	23°46	18°51	7° 6	29°55	12°D31	10°55	22°26	n.a.	S 19
M20	19 36 59	22°47'28	2♉ 7	20° 9	6°51	25°16	19°32	23°42	18°49	7° 6	29°55	12°31	10°52	22°33	n.a.	M20
T 21	19 40 55	23°45'12	14°42	21° 3	8° 4	25°55	19°30	23°39	18°46	7° 6	29°55	12°32	10°49	22°39	n.a.	T 21
W22	19 44 52	24°42'59	27° 0	21°54	9°18	26°33	19°29	23°35	18°44	7° 6	29°56	12°34	10°45	22°46	n.a.	W22
T 23	19 48 48	25°40'47	9♊ 5	22°41	10°32	27°12	19°27	23°32	18°42	7° 6	29°56	12°R35	10°42	22°53	n.a.	T 23
F 24	19 52 45	26°38'37	21° 1	23°25	11°46	27°50	19°25	23°28	18°39	7° 5	29°56	12°34	10°39	22°59	n.a.	F 24
S 25	19 56 42	27°36'28	2♋52	24° 6	13° 0	28°28	19°22	23°25	18°37	7° 5	29°56	12°32	10°36	23° 6	n.a.	S 25
S 26	20 0 38	28°34'22	14°41	24°42	14°14	29° 7	19°20	23°22	18°35	7° 5	29°57	12°28	10°33	23°13	n.a.	S 26
M27	20 4 35	29°32'17	26°29	25°15	15°28	29°45	19°17	23°19	18°32	7° 4	29°57	12°22	10°30	23°20	n.a.	M27
T 28	20 8 31	0♌30'13	8♌21	25°43	16°42	0♋23	19°15	23°16	18°30	7° 4	29°57	12°14	10°26	23°26	n.a.	T 28
W29	20 12 28	1°28'11	20°16	26° 6	17°56	1° 1	19°12	23°13	18°28	7° 3	29°57	12° 4	10°23	23°33	n.a.	W29
T 30	20 16 24	2°26'11	2♍16	26°25	19°10	1°39	19° 8	23°10	18°25	7° 3	29°57	11°55	10°20	23°40	n.a.	T 30
F 31	20 20 21	3♌24'13	14♍24	26♌39	20♋24	2♋18	19♓ 5	23♐ 7	18♑23	7♈ 2	29♈57	11♊46	10♊17	23♋46	n.a.	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
W 1	23n38	21n52	4n27	22n24	1n12	22n18	0s23	23n 8	0n31	5s38	1s30	23s 9	0n28	22s50	0s35	1n 5	1s54	1s29	13s53	22n37	22n28	25n19			n.a.
T 2	23 35	18 35	4 56	21 59	1 6	22 29	0 21	23 13	0 32	5 37	1 30	23 9	0 28	22 50	0 35	1 5	1 54	1 29	13 53	22 37	22 27	25 18			n.a.
F 3	23 33	14 31	5 11	21 34	0 59	22 40	0 18	23 18	0 33	5 37	1 31	23 9	0 27	22 51	0 35	1 5	1 54	1 29	13 53	22 36	22 27	25 18			n.a.
S 4	23 30	9 49	5 13	21 7	0 52	22 50	0 16	23 24	0 33	5 37	1 31	23 9	0 27	22 51	0 35	1 5	1 55	1 29	13 53	22 36	22 27	25 17			n.a.
S 5	23 26	4 39	5 1	20 40	0 45	22 59	0 13	23 29	0 34	5 36	1 31	23 9	0 27	22 52	0 35	1 6	1 55	1 29	13 53	22 36	22 26	25 17			n.a.
M 6	23 22	0s51	4 33	20 13	0 37	23 8	0 10	23 33	0 34	5 36	1 32	23 9	0 27	22 52	0 35	1 6	1 55	1 29	13 54	22 36	22 26	25 17			n.a.
T 7	23 18	6 28	3 51	19 44	0 29	23 16	0 8	23 38	0 35	5 36	1 32	23 9	0 27	22 52	0 35	1 6	1 55	1 29	13 54	22 36	22 25	25 16			n.a.
W 8	23 13	11 58	2 55	19 15	0 20	23 23	0 5	23 42	0 35	5 35	1 32	23 9	0 27	22 53	0 35	1 6	1 55	1 29	13 54	22 36	22 25	25 16			n.a.
T 9	23 8	17 4	1 46	18 46	0 11	23 30	0 3	23 46	0 36	5 35	1 33	23 9	0 27	22 53	0 35	1 6	1 55	1 29	13 54	22 36	22 24	25 16			n.a.
F 10	23 3	21 20	0 29	18 17	0 3	23 36	0 0	23 50	0 37	5 35	1 33	23 8	0 27	22 53	0 35	1 6	1 55	1 29	13 55	22 36	22 24	25 15			n.a.
S 11	22 57	24 20	0s51	17 47	0s 7	23 41	0n 2	23 54	0 37	5 35	1 33	23 8	0 27	22 54	0 35	1 6	1 55	1 29	13 55	22 36	22 24	25 15			n.a.
S 12	22 50	25 40	2 10	17 17	0 16	23 45	0 5	23 58	0 38	5 36	1 34	23 8	0 26	22 54	0 35	1 6	1 55	1 29	13 55	22 36	22 23	25 14			n.a.
M13	22 44	25 4	3 20	16 47	0 26	23 49	0 8	24 1	0 38	5 36	1 34	23 8	0 26	22 54	0 35	1 6	1 55	1 29	13 55	22 36	22 23	25 14			n.a.
T 14	22 37	22 36	4 16	16 17	0 36	23 52	0 10	24 4	0 39	5 36	1 34	23 8	0 26	22 55	0 35	1 6	1 55	1 29	13 56	22 35	22 22	25 13			n.a.
W15	22 29	18 37	4 53	15 47	0 46	23 55	0 13	24 7	0 40	5 37	1 35	23 8	0 26	22 55	0 35	1 6	1 55	1 29	13 56	22 35	22 22	25 13			n.a.
T 16	22 21	13 34	5 10	15 17	0 56	23 57	0 15	24 10	0 40	5 37	1 35	23 8	0 26	22 55	0 35	1 5	1 55	1 29	13 56	22 34	22 21	25 12			n.a.
F 17	22 13	7 54	5 7	14 48	1 7	23 58	0 18	24 13	0 41	5 38	1 35	23 8	0 26	22 56	0 35	1 5	1 55	1 30	13 56	22 34	22 21	25 12			n.a.
S 18	22 4	2 2	4 46	14 19	1 17	23 58	0 20	24 15	0 41	5 38	1 36	23 8	0 26	22 56	0 35	1 5	1 55	1 30	13 57	22 33	22 20	25 12			n.a.
S 19	21 55	3n44	4 10	13 50	1 28	23 58	0 22	24 18	0 42	5 39	1 36	23 8	0 26	22 56	0 35	1 5	1 56	1 30	13 57	22 33	22 20	25 11			n.a.
M20	21 45	9 11	3 22	13 22	1 38	23 56	0 25	24 20	0 42	5 40	1 36	23 8	0 26	22 57	0 35	1 5	1 56	1 30	13 57	22 33	22 19	25 11			n.a.
T 21	21 36	14 7	2 26	12 55	1 49	23 55	0 27	24 22	0 43	5 41	1 36	23 8	0 26	22 57	0 35	1 5	1 56	1 30	13 57	22 33	22 19	25 10			n.a.
W22	21 25	18 21	1 24	12 28	2 0	23 52	0 29	24 23	0 44	5 42	1 37	23 8	0 25	22 57	0 35	1 5	1 56	1 30	13 58	22 33	22 19	25 10			n.a.
T 23	21 15	21 45	0 19	12 3	2 11	23 49	0 32	24 25	0 44	5 43	1 37	23 8	0 25	22 58	0 35	1 5	1 56	1 30	13 58	22 34	22 18	25 9			n.a.
F 24	21 4	24 9	0n46	11 38	2 22	23 45	0 34	24 26	0 45	5 44	1 37	23 8	0 25	22 58	0 35	1 4	1 56	1 31	13 58	22 34	22 18	25 9			n.a.
S 25	20 52	25 28	1 48	11 15	2 33	23 40	0 36	24 27	0 45	5 45	1 38	23 8	0 25	22 58	0 35	1 4	1 56	1 31	13 58	22 33	22 17	25 8			n.a.
S 26	20 41	25 37	2 45	10 52	2 43	23 35	0 38	24 28	0 46	5 46	1 38	23 7	0 25	22 59	0 35	1 4	1 56	1 31	13 59	22 33	22 17	25 8			n.a.
M27	20 29	24 36	3 34	10 32	2 54	23 28	0 41	24 29	0 47	5 47	1 38	23 7	0 25	22 59	0 35	1 4	1 56	1 31	13 59	22 32	22 16	25 7			n.a.
T 28	20 16	22 29	4 15	10 12	3 4	23 21	0 43	24 30	0 47	5 49	1 39	23 7	0 25	22 59	0 35	1 4	1 56	1 31	13 59	22 31	22 16	25 7			n.a.
W29	20 3	19 23	4 45	9 55	3 14	23 14	0 45	24 30	0 48	5 50	1 39	23 7	0 25	23 0	0 35	1 3	1 56	1 31	14 0	22 30	22 15	25 6			n.a.
T 30	19 50	15 28	5 2	9 39	3 24	23 6	0 47	24 30	0 48	5 52	1 39	23 7	0 24	23 0	0 35	1 3	1 56	1 32	14 0	22 28	22 15	25 5			n.a.
F 31	19n37	10n54	5n 6	9n26	3s33	22n57	0n49	24n30	0n49	5s53	1s39	23s 7	0n24	23s 0	0s35	1n 3	1s56	1s32	14s 0	22n27	22n14	25n 5			n.a.

Julian Day Number = 1684348.5, Delta T = 03h13m48s
Ecliptic obliquity = 23°42'29, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°28'00, Lahiri = - 5°21'00 Julian Calendar 1 July 102 BCE == Greg. Calendar 28 June 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

AUGUST 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 24 17	4♌22'15	26♍41	26♌47	21♋38	2♋56	19°R 1	23°R 4	18°R21	7°R 2	29♈57	11°R38	10♊14	23♋53	n.a.	S 1
S 2	20 28 14	5°20'20	9♎10	26°R50	22°52	3°34	18♓58	23♐ 1	18♑18	7♈ 1	29°57	11♊33	10°10	24° 0	n.a.	S 2
M 3	20 32 11	6°18'26	21°54	26°47	24° 6	4°12	18°54	22°59	18°16	7° 1	29°R57	11°30	10° 7	24° 6	n.a.	M 3
T 4	20 36 7	7°16'33	4♏55	26°37	25°21	4°50	18°49	22°56	18°14	7° 0	29°57	11°D29	10° 4	24°13	n.a.	T 4
W 5	20 40 4	8°14'42	18°19	26°22	26°35	5°28	18°45	22°54	18°12	6°59	29°57	11°29	10° 1	24°20	n.a.	W 5
T 6	20 44 0	9°12'53	2♐ 5	26° 0	27°49	6° 6	18°41	22°51	18°10	6°59	29°57	11°30	9°58	24°26	n.a.	T 6
F 7	20 47 57	10°11'05	16°17	25°32	29° 3	6°43	18°36	22°49	18° 7	6°58	29°57	11°R30	9°55	24°33	n.a.	F 7
S 8	20 51 53	11° 9'19	0♑54	24°57	0♌18	7°21	18°31	22°47	18° 5	6°57	29°57	11°29	9°51	24°40	n.a.	S 8
S 9	20 55 50	12° 7'35	15°50	24°17	1°32	7°59	18°26	22°45	18° 3	6°56	29°57	11°25	9°48	24°46	n.a.	S 9
M10	20 59 46	13° 5'52	1♒ 0	23°31	2°47	8°37	18°21	22°43	18° 1	6°55	29°57	11°19	9°45	24°53	n.a.	M10
T 11	21 3 43	14° 4'11	16°15	22°40	4° 1	9°14	18°16	22°41	17°59	6°55	29°57	11°10	9°42	25° 0	n.a.	T 11
W12	21 7 40	15° 2'32	1♓22	21°45	5°15	9°52	18°10	22°39	17°57	6°54	29°57	11° 1	9°39	25° 6	n.a.	W12
T 13	21 11 36	16° 0'55	16°13	20°46	6°30	10°30	18° 5	22°37	17°55	6°53	29°56	10°52	9°36	25°13	n.a.	T 13
F 14	21 15 33	16°59'20	0♈39	19°46	7°45	11° 7	17°59	22°36	17°53	6°52	29°56	10°43	9°32	25°20	n.a.	F 14
S 15	21 19 29	17°57'47	14°37	18°44	8°59	11°45	17°53	22°34	17°51	6°51	29°56	10°37	9°29	25°27	n.a.	S 15
S 16	21 23 26	18°56'17	28° 4	17°43	10°14	12°22	17°47	22°32	17°49	6°50	29°56	10°33	9°26	25°33	n.a.	S 16
M17	21 27 22	19°54'48	11♉ 4	16°44	11°28	13° 0	17°41	22°31	17°47	6°49	29°55	10°31	9°23	25°40	n.a.	M17
T 18	21 31 19	20°53'23	23°39	15°48	12°43	13°37	17°34	22°30	17°45	6°48	29°55	10°D30	9°20	25°47	n.a.	T 18
W19	21 35 15	21°51'59	5♊55	14°57	13°58	14°15	17°28	22°28	17°43	6°47	29°55	10°R31	9°16	25°53	n.a.	W19
T 20	21 39 12	22°50'38	17°57	14°12	15°12	14°52	17°21	22°27	17°41	6°46	29°54	10°31	9°13	26° 0	n.a.	T 20
F 21	21 43 9	23°49'19	29°49	13°34	16°27	15°30	17°14	22°26	17°40	6°45	29°54	10°29	9°10	26° 7	n.a.	F 21
S 22	21 47 5	24°48'02	11♋38	13° 5	17°42	16° 7	17° 8	22°25	17°38	6°43	29°54	10°25	9° 7	26°13	n.a.	S 22
S 23	21 51 2	25°46'48	23°26	12°44	18°57	16°44	17° 1	22°25	17°36	6°42	29°53	10°18	9° 4	26°20	n.a.	S 23
M24	21 54 58	26°45'36	5♌17	12°33	20°12	17°21	16°54	22°24	17°34	6°41	29°53	10° 9	9° 1	26°27	n.a.	M24
T 25	21 58 55	27°44'26	17°13	12°D32	21°26	17°59	16°46	22°23	17°33	6°40	29°52	9°57	8°57	26°33	n.a.	T 25
W26	22 2 51	28°43'18	29°17	12°40	22°41	18°36	16°39	22°23	17°31	6°39	29°52	9°43	8°54	26°40	n.a.	W26
T 27	22 6 48	29°42'12	11♍28	12°59	23°56	19°13	16°32	22°22	17°30	6°37	29°51	9°29	8°51	26°47	n.a.	T 27
F 28	22 10 44	0♍41'08	23°47	13°27	25°11	19°50	16°24	22°22	17°28	6°36	29°51	9°16	8°48	26°53	n.a.	F 28
S 29	22 14 41	1°40'06	6♎16	14° 5	26°26	20°27	16°17	22°22	17°26	6°35	29°50	9° 5	8°45	27° 0	n.a.	S 29
S 30	22 18 38	2°39'07	18°56	14°51	27°41	21° 4	16° 9	22°21	17°25	6°34	29°50	8°56	8°41	27° 7	n.a.	S 30
M31	22 22 34	3♍38'09	1♏48	15♌45	28♌56	21♋41	16♓ 1	22°D21	17♑24	6♈32	29♈49	8♊50	8♊38	27♋14	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	19n23	5n51	4n56	9n15	3s42	22n47	0n51	24n30	0n49	5s55	1s40	23s 7	0n24	23s 1	0s35	1n 3	1s56	1s32	14s 0	22n26	22n14	25n 4		n.a.
S 2	19 9	0 29	4 32	9 6	3 50	22 37	0 53	24 30	0 50	5 57	1 40	23 7	0 24	23 1	0 35	1 2	1 56	1 32	14 1	22 25	22 14	25 4		n.a.
M 3	18 54	5s 1	3 54	9 1	3 57	22 26	0 55	24 29	0 51	5 59	1 40	23 7	0 24	23 1	0 35	1 2	1 56	1 33	14 1	22 25	22 13	25 3		n.a.
T 4	18 40	10 26	3 3	8 58	4 4	22 14	0 56	24 28	0 51	6 0	1 41	23 7	0 24	23 2	0 35	1 2	1 57	1 33	14 1	22 25	22 13	25 3		n.a.
W 5	18 24	15 32	2 1	8 58	4 10	22 2	0 58	24 27	0 52	6 2	1 41	23 7	0 24	23 2	0 35	1 1	1 57	1 33	14 1	22 25	22 12	25 2		n.a.
T 6	18 9	20 0	0 50	9 1	4 14	21 49	1 0	24 26	0 52	6 4	1 41	23 7	0 24	23 2	0 35	1 1	1 57	1 33	14 2	22 25	22 12	25 1		n.a.
F 7	17 53	23 25	0s26	9 7	4 17	21 35	1 2	24 25	0 53	6 7	1 41	23 7	0 24	23 2	0 35	1 1	1 57	1 34	14 2	22 25	22 11	25 1		n.a.
S 8	17 37	25 24	1 42	9 17	4 19	21 21	1 3	24 23	0 53	6 9	1 42	23 7	0 23	23 3	0 35	1 0	1 57	1 34	14 2	22 25	22 11	25 0		n.a.
S 9	17 21	25 37	2 53	9 30	4 19	21 6	1 5	24 22	0 54	6 11	1 42	23 7	0 23	23 3	0 35	1 0	1 57	1 34	14 2	22 24	22 10	25 0		n.a.
M10	17 4	23 56	3 52	9 47	4 18	20 50	1 6	24 20	0 55	6 13	1 42	23 7	0 23	23 3	0 35	1 0	1 57	1 34	14 3	22 23	22 10	24 59		n.a.
T 11	16 47	20 31	4 35	10 7	4 14	20 34	1 8	24 18	0 55	6 15	1 42	23 7	0 23	23 4	0 35	0 59	1 57	1 35	14 3	22 22	22 9	24 58		n.a.
W12	16 30	15 45	4 59	10 29	4 9	20 17	1 9	24 16	0 56	6 18	1 42	23 7	0 23	23 4	0 35	0 59	1 57	1 35	14 3	22 21	22 9	24 58		n.a.
T 13	16 13	10 7	5 2	10 55	4 1	20 0	1 11	24 13	0 56	6 20	1 43	23 7	0 23	23 4	0 35	0 58	1 57	1 35	14 3	22 19	22 8	24 57		n.a.
F 14	15 55	4 5	4 45	11 23	3 52	19 42	1 12	24 11	0 57	6 23	1 43	23 7	0 23	23 4	0 35	0 58	1 57	1 36	14 4	22 18	22 8	24 56		n.a.
S 15	15 37	1n57	4 12	11 53	3 41	19 23	1 13	24 8	0 57	6 25	1 43	23 7	0 23	23 5	0 35	0 57	1 57	1 36	14 4	22 17	22 7	24 56		n.a.
S 16	15 19	7 42	3 26	12 24	3 28	19 4	1 14	24 5	0 58	6 28	1 43	23 7	0 22	23 5	0 35	0 57	1 57	1 36	14 4	22 17	22 7	24 55		n.a.
M17	15 0	12 56	2 30	12 56	3 13	18 44	1 15	24 2	0 59	6 31	1 44	23 7	0 22	23 5	0 35	0 57	1 57	1 37	14 4	22 16	22 6	24 54		n.a.
T 18	14 42	17 28	1 28	13 28	2 57	18 24	1 16	23 59	0 59	6 33	1 44	23 7	0 22	23 5	0 35	0 56	1 57	1 37	14 5	22 16	22 6	24 54		n.a.
W19	14 23	21 8	0 24	14 0	2 39	18 3	1 17	23 56	1 0	6 36	1 44	23 7	0 22	23 6	0 35	0 56	1 57	1 37	14 5	22 16	22 5	24 53		n.a.
T 20	14 3	23 49	0n39	14 31	2 21	17 42	1 18	23 52	1 0	6 39	1 44	23 7	0 22	23 6	0 35	0 55	1 57	1 38	14 5	22 16	22 5	24 52		n.a.
F 21	13 44	25 23	1 41	15 0	2 2	17 20	1 19	23 48	1 1	6 42	1 44	23 8	0 22	23 6	0 35	0 55	1 58	1 38	14 5	22 16	22 4	24 52		n.a.
S 22	13 24	25 48	2 37	15 27	1 42	16 58	1 20	23 44	1 1	6 44	1 44	23 8	0 22	23 6	0 35	0 54	1 58	1 38	14 6	22 16	22 4	24 51		n.a.
S 23	13 4	25 2	3 27	15 51	1 23	16 35	1 21	23 40	1 2	6 47	1 45	23 8	0 22	23 7	0 35	0 54	1 58	1 39	14 6	22 15	22 3	24 50		n.a.
M24	12 44	23 9	4 7	16 13	1 3	16 12	1 22	23 36	1 3	6 50	1 45	23 8	0 22	23 7	0 35	0 53	1 58	1 39	14 6	22 13	22 3	24 49		n.a.
T 25	12 24	20 14	4 37	16 32	0 44	15 49	1 22	23 32	1 3	6 53	1 45	23 8	0 21	23 7	0 35	0 53	1 58	1 39	14 6	22 11	22 2	24 49		n.a.
W26	12 3	16 27	4 55	16 47	0 26	15 25	1 23	23 27	1 4	6 56	1 45	23 8	0 21	23 7	0 35	0 52	1 58	1 40	14 7	22 9	22 2	24 48		n.a.
T 27	11 42	11 57	5 0	16 58	0 9	15 0	1 23	23 22	1 4	6 59	1 45	23 8	0 21	23 7	0 35	0 52	1 58	1 40	14 7	22 7	22 1	24 47		n.a.
F 28	11 21	6 56	4 51	17 6	0n 8	14 35	1 24	23 18	1 5	7 2	1 45	23 8	0 21	23 8	0 35	0 51	1 58	1 41	14 7	22 5	22 1	24 46		n.a.
S 29	11 0	1 34	4 27	17 9	0 23	14 10	1 24	23 13	1 5	7 5	1 45	23 8	0 21	23 8	0 35	0 50	1 58	1 41	14 7	22 4	22 0	24 46		n.a.
S 30	10 39	3s57	3 51	17 9	0 37	13 44	1 24	23 7	1 6	7 8	1 46	23 8	0 21	23 8	0 35	0 50	1 58	1 41	14 8	22 2	22 0	24 45		n.a.
M31	10n17	9s23	3n 2	17n 6	0n50	13n18	1n25	23n 2	1n 7	7s12	1s46	23s 8	0n21	23s 8	0s35	0n49	1s58	1s42	14s 8	22n 1	21n59	24n44		n.a.

Julian Day Number = 1684379.5, Delta T = 03h13m47s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'56, Lahiri = - 5°20'55 Julian Calendar 1 Aug. 102 BCE == Greg. Calendar 29 July 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

SEPTEMBER 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 26 31	4♍37'13	14♏53	16♌47	0♍11	22♋18	15°R54	22♐21	17°R22	6°R31	29°R49	8°R47	8♊35	27♋20	n.a.	T 1
W 2	22 30 27	5°36'18	28°14	17°55	1°26	22°55	15♓46	22°22	17♑21	6♈29	29♈48	8♊46	8°32	27°27	n.a.	W 2
T 3	22 34 24	6°35'26	11♐54	19°10	2°41	23°32	15°38	22°22	17°20	6°28	29°48	8°46	8°29	27°34	n.a.	T 3
F 4	22 38 20	7°34'36	25°53	20°30	3°56	24° 8	15°30	22°22	17°18	6°27	29°47	8°46	8°26	27°40	n.a.	F 4
S 5	22 42 17	8°33'48	10♑13	21°55	5°11	24°45	15°22	22°23	17°17	6°25	29°46	8°44	8°22	27°47	n.a.	S 5
S 6	22 46 13	9°33'01	24°51	23°24	6°26	25°22	15°14	22°23	17°16	6°24	29°46	8°39	8°19	27°54	n.a.	S 6
M 7	22 50 10	10°32'16	9♒43	24°57	7°41	25°58	15° 6	22°24	17°15	6°22	29°45	8°31	8°16	28° 0	n.a.	M 7
T 8	22 54 6	11°31'33	24°41	26°32	8°56	26°35	14°58	22°25	17°14	6°21	29°44	8°22	8°13	28° 7	n.a.	T 8
W 9	22 58 3	12°30'53	9♓37	28°10	10°11	27°12	14°50	22°26	17°13	6°19	29°44	8°10	8°10	28°14	n.a.	W 9
T 10	23 2 0	13°30'14	24°21	29°49	11°27	27°48	14°42	22°26	17°12	6°18	29°43	7°59	8° 7	28°20	n.a.	T 10
F 11	23 5 56	14°29'37	8♈45	1♍30	12°42	28°25	14°34	22°28	17°11	6°16	29°42	7°48	8° 3	28°27	n.a.	F 11
S 12	23 9 53	15°29'03	22°44	3°13	13°57	29° 1	14°26	22°29	17°10	6°15	29°41	7°40	8° 0	28°34	n.a.	S 12
S 13	23 13 49	16°28'31	6♉15	4°56	15°12	29°37	14°17	22°30	17° 9	6°13	29°41	7°34	7°57	28°41	n.a.	S 13
M14	23 17 46	17°28'01	19°18	6°39	16°27	0♌14	14° 9	22°31	17° 8	6°12	29°40	7°31	7°54	28°47	n.a.	M14
T 15	23 21 42	18°27'34	1♊57	8°24	17°42	0°50	14° 1	22°33	17° 7	6°10	29°39	7°30	7°51	28°54	n.a.	T 15
W16	23 25 39	19°27'10	14°15	10° 8	18°58	1°26	13°53	22°34	17° 6	6° 8	29°38	7°30	7°47	29° 1	n.a.	W16
T 17	23 29 35	20°26'47	26°18	11°52	20°13	2° 3	13°45	22°36	17° 6	6° 7	29°37	7°30	7°44	29° 7	n.a.	T 17
F 18	23 33 32	21°26'27	8♋12	13°36	21°28	2°39	13°37	22°38	17° 5	6° 5	29°37	7°28	7°41	29°14	n.a.	F 18
S 19	23 37 29	22°26'10	20° 1	15°20	22°43	3°15	13°29	22°39	17° 5	6° 4	29°36	7°25	7°38	29°21	n.a.	S 19
S 20	23 41 25	23°25'55	1♌51	17° 4	23°59	3°51	13°22	22°41	17° 4	6° 2	29°35	7°19	7°35	29°27	n.a.	S 20
M21	23 45 22	24°25'42	13°45	18°48	25°14	4°27	13°14	22°43	17° 4	6° 0	29°34	7°10	7°32	29°34	n.a.	M21
T 22	23 49 18	25°25'31	25°47	20°31	26°29	5° 3	13° 6	22°46	17° 3	5°59	29°33	6°59	7°28	29°41	n.a.	T 22
W23	23 53 15	26°25'22	7♍59	22°13	27°45	5°39	12°58	22°48	17° 3	5°57	29°32	6°47	7°25	29°47	n.a.	W23
T 24	23 57 11	27°25'16	20°23	23°55	29° 0	6°15	12°51	22°50	17° 2	5°55	29°31	6°34	7°22	29°54	n.a.	T 24
F 25	0 1 8	28°25'11	2♎59	25°37	0♎15	6°51	12°43	22°53	17° 2	5°54	29°30	6°22	7°19	0♌ 1	n.a.	F 25
S 26	0 5 4	29°25'09	15°46	27°18	1°30	7°27	12°36	22°55	17° 2	5°52	29°29	6°11	7°16	0° 8	n.a.	S 26
S 27	0 9 1	0♎25'08	28°44	28°58	2°46	8° 2	12°28	22°58	17° 2	5°50	29°28	6° 3	7°12	0°14	n.a.	S 27
M28	0 12 57	1°25'10	11♏54	0♎38	4° 1	8°38	12°21	23° 0	17° 2	5°49	29°27	5°58	7° 9	0°21	n.a.	M28
T 29	0 16 54	2°25'13	25°14	2°17	5°17	9°14	12°14	23° 3	17° 1	5°47	29°26	5°55	7° 6	0°28	n.a.	T 29
W30	0 20 51	3♎25'18	8♐45	3♎56	6♎32	9♌49	12♓ 7	23♐ 6	17°D 1	5♈45	29♈25	5°D55	7♊ 3	0♌34	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n55	14s32	2n 3	16n58	1n 2	12n51	1n25	22n57	1n 7	7s15	1s46	23s 9	0n21	23s 8	0s35	0n49	1s58	1s42	14s 8	22n 1	21n59	24n43		n.a.
W 2	9 34	19 6	0 55	16 47	1 12	12 24	1 25	22 51	1 8	7 18	1 46	23 9	0 20	23 8	0 35	0 48	1 58	1 43	14 8	22 1	21 58	24 43		n.a.
T 3	9 12	22 45	0s17	16 32	1 22	11 57	1 25	22 45	1 8	7 21	1 46	23 9	0 20	23 9	0 35	0 48	1 58	1 43	14 8	22 1	21 58	24 42		n.a.
F 4	8 49	25 8	1 29	16 14	1 30	11 30	1 25	22 39	1 9	7 24	1 46	23 9	0 20	23 9	0 35	0 47	1 58	1 43	14 9	22 1	21 57	24 41		n.a.
S 5	8 27	25 56	2 38	15 53	1 37	11 2	1 25	22 33	1 9	7 27	1 46	23 9	0 20	23 9	0 35	0 46	1 58	1 44	14 9	22 0	21 57	24 40		n.a.
S 6	8 5	24 58	3 38	15 29	1 42	10 34	1 25	22 27	1 10	7 31	1 46	23 9	0 20	23 9	0 34	0 46	1 58	1 44	14 9	22 0	21 56	24 39		n.a.
M 7	7 42	22 15	4 24	15 2	1 47	10 5	1 24	22 21	1 11	7 34	1 46	23 9	0 20	23 9	0 34	0 45	1 58	1 45	14 9	21 58	21 56	24 38		n.a.
T 8	7 19	18 1	4 52	14 32	1 50	9 36	1 24	22 14	1 11	7 37	1 46	23 10	0 20	23 9	0 34	0 44	1 58	1 45	14 9	21 57	21 55	24 38		n.a.
W 9	6 56	12 40	5 0	14 1	1 53	9 7	1 24	22 8	1 12	7 40	1 46	23 10	0 20	23 9	0 34	0 44	1 58	1 45	14 10	21 55	21 55	24 37		n.a.
T 10	6 33	6 40	4 48	13 27	1 55	8 38	1 23	22 1	1 12	7 43	1 46	23 10	0 20	23 9	0 34	0 43	1 58	1 46	14 10	21 53	21 54	24 36		n.a.
F 11	6 10	0 26	4 18	12 51	1 56	8 9	1 23	21 54	1 13	7 46	1 46	23 10	0 19	23 10	0 34	0 43	1 58	1 46	14 10	21 51	21 54	24 35		n.a.
S 12	5 47	5n39	3 33	12 14	1 56	7 39	1 22	21 47	1 14	7 50	1 46	23 10	0 19	23 10	0 34	0 42	1 58	1 47	14 10	21 50	21 53	24 34		n.a.
S 13	5 24	11 17	2 37	11 36	1 55	7 9	1 22	21 40	1 14	7 53	1 46	23 10	0 19	23 10	0 34	0 41	1 58	1 47	14 10	21 49	21 53	24 33		n.a.
M14	5 0	16 14	1 35	10 56	1 54	6 39	1 21	21 33	1 15	7 56	1 46	23 11	0 19	23 10	0 34	0 41	1 58	1 48	14 10	21 49	21 52	24 32		n.a.
T 15	4 37	20 18	0 29	10 15	1 52	6 9	1 20	21 25	1 15	7 59	1 46	23 11	0 19	23 10	0 34	0 40	1 58	1 48	14 11	21 48	21 52	24 32		n.a.
W16	4 13	23 22	0n36	9 33	1 50	5 38	1 20	21 18	1 16	8 2	1 46	23 11	0 19	23 10	0 34	0 39	1 58	1 48	14 11	21 48	21 51	24 31		n.a.
T 17	3 50	25 17	1 38	8 50	1 47	5 7	1 19	21 10	1 16	8 5	1 46	23 11	0 19	23 10	0 34	0 39	1 58	1 49	14 11	21 48	21 51	24 30		n.a.
F 18	3 26	26 2	2 35	8 6	1 44	4 37	1 18	21 2	1 17	8 8	1 46	23 11	0 19	23 10	0 34	0 38	1 58	1 49	14 11	21 48	21 50	24 29		n.a.
S 19	3 2	25 35	3 25	7 22	1 40	4 6	1 17	20 54	1 18	8 11	1 46	23 12	0 19	23 10	0 34	0 37	1 59	1 50	14 11	21 48	21 50	24 28		n.a.
S 20	2 38	23 58	4 6	6 38	1 36	3 35	1 16	20 46	1 18	8 14	1 46	23 12	0 18	23 10	0 34	0 37	1 59	1 50	14 11	21 47	21 49	24 27		n.a.
M21	2 14	21 18	4 37	5 53	1 31	3 4	1 15	20 38	1 19	8 17	1 46	23 12	0 18	23 10	0 34	0 36	1 59	1 51	14 12	21 45	21 49	24 26		n.a.
T 22	1 50	17 42	4 56	5 7	1 26	2 32	1 14	20 30	1 19	8 20	1 46	23 12	0 18	23 10	0 34	0 35	1 59	1 51	14 12	21 43	21 48	24 25		n.a.
W23	1 26	13 19	5 1	4 22	1 21	2 1	1 13	20 22	1 20	8 23	1 46	23 13	0 18	23 10	0 34	0 35	1 59	1 51	14 12	21 41	21 48	24 24		n.a.
T 24	1 2	8 20	4 53	3 36	1 16	1 29	1 11	20 13	1 21	8 26	1 46	23 13	0 18	23 10	0 34	0 34	1 59	1 52	14 12	21 39	21 47	24 23		n.a.
F 25	0 38	2 56	4 30	2 51	1 11	0 58	1 10	20 5	1 21	8 29	1 45	23 13	0 18	23 10	0 34	0 33	1 59	1 52	14 12	21 37	21 47	24 22		n.a.
S 26	0 14	2s41	3 53	2 5	1 5	0 26	1 9	19 56	1 22	8 32	1 45	23 13	0 18	23 10	0 34	0 33	1 59	1 53	14 12	21 35	21 46	24 21		n.a.
S 27	0s10	8 17	3 4	1 19	0 59	0s 5	1 7	19 47	1 22	8 34	1 45	23 14	0 18	23 10	0 34	0 32	1 59	1 53	14 12	21 34	21 45	24 21		n.a.
M28	0 34	13 36	2 4	0 33	0 53	0 37	1 6	19 38	1 23	8 37	1 45	23 14	0 18	23 10	0 34	0 31	1 59	1 54	14 12	21 33	21 45	24 20		n.a.
T 29	0 58	18 22	0 57	0s12	0 47	1 8	1 4	19 29	1 24	8 40	1 45	23 14	0 17	23 10	0 34	0 31	1 59	1 54	14 13	21 32	21 44	24 19		n.a.
W30	1s23	22s16	0s15	0s58	0n41	1s40	1n 3	19n20	1n24	8s42	1s45	23s14	0n17	23s10	0s34	0n30	1s59	1s55	14s13	21n32	21n44	24n18		n.a.

Julian Day Number = 1684410.5, Delta T = 03h13m46s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'52, Lahiri = - 5°20'51 Julian Calendar 1 Sept. 102 BCE == Greg. Calendar 29 Aug. 102 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

OCTOBER 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 24 47	4♎25'25	22♐28	5♎34	7♎47	10♌25	12°R 0	23♐ 9	17♑ 1	5°R44	29°R24	5♊55	7♊ 0	0♌41	n.a.	T 1
F 2	0 28 44	5°25'33	6♑24	7°12	9° 3	11° 0	11♓53	23°12	17° 2	5♈42	29♈23	5°R56	6°57	0°48	n.a.	F 2
S 3	0 32 40	6°25'43	20°32	8°50	10°18	11°36	11°47	23°15	17° 2	5°40	29°22	5°55	6°53	0°54	n.a.	S 3
S 4	0 36 37	7°25'55	4♒51	10°27	11°33	12°11	11°40	23°18	17° 2	5°38	29°21	5°52	6°50	1° 1	n.a.	S 4
M 5	0 40 33	8°26'08	19°19	12° 3	12°49	12°46	11°34	23°22	17° 2	5°37	29°20	5°46	6°47	1° 8	n.a.	M 5
T 6	0 44 30	9°26'23	3♓51	13°39	14° 4	13°21	11°27	23°25	17° 2	5°35	29°19	5°39	6°44	1°15	n.a.	T 6
W 7	0 48 26	10°26'39	18°21	15°14	15°19	13°57	11°21	23°29	17° 3	5°33	29°18	5°30	6°41	1°21	n.a.	W 7
T 8	0 52 23	11°26'57	2♈44	16°50	16°35	14°32	11°15	23°32	17° 3	5°32	29°17	5°21	6°38	1°28	n.a.	T 8
F 9	0 56 20	12°27'17	16°51	18°24	17°50	15° 7	11° 9	23°36	17° 3	5°30	29°16	5°12	6°34	1°35	n.a.	F 9
S 10	1 0 16	13°27'39	0♉39	19°59	19° 5	15°42	11° 4	23°40	17° 4	5°28	29°15	5° 6	6°31	1°41	n.a.	S 10
S 11	1 4 13	14°28'02	14° 4	21°33	20°21	16°17	10°58	23°43	17° 4	5°27	29°14	5° 1	6°28	1°48	n.a.	S 11
M12	1 8 9	15°28'28	27° 6	23° 6	21°36	16°52	10°53	23°47	17° 5	5°25	29°13	4°59	6°25	1°55	n.a.	M12
T 13	1 12 6	16°28'56	9♊46	24°40	22°51	17°26	10°48	23°51	17° 6	5°23	29°12	4°D59	6°22	2° 1	n.a.	T 13
W14	1 16 2	17°29'25	22° 7	26°13	24° 7	18° 1	10°43	23°55	17° 6	5°22	29°11	5° 0	6°18	2° 8	n.a.	W14
T 15	1 19 59	18°29'56	4♋12	27°45	25°22	18°36	10°38	24° 0	17° 7	5°20	29° 9	5° 1	6°15	2°15	n.a.	T 15
F 16	1 23 55	19°30'30	16° 8	29°18	26°38	19°11	10°33	24° 4	17° 8	5°18	29° 8	5°R 2	6°12	2°21	n.a.	F 16
S 17	1 27 52	20°31'05	27°59	0♏50	27°53	19°45	10°29	24° 8	17° 9	5°17	29° 7	5° 2	6° 9	2°28	n.a.	S 17
S 18	1 31 49	21°31'42	9♌50	2°22	29° 8	20°20	10°24	24°13	17°10	5°15	29° 6	5° 0	6° 6	2°35	n.a.	S 18
M19	1 35 45	22°32'21	21°47	3°53	0♏24	20°54	10°20	24°17	17°11	5°14	29° 5	4°56	6° 3	2°42	n.a.	M19
T 20	1 39 42	23°33'02	3♍52	5°25	1°39	21°28	10°16	24°22	17°12	5°12	29° 4	4°50	5°59	2°48	n.a.	T 20
W21	1 43 38	24°33'44	16°11	6°56	2°54	22° 3	10°12	24°26	17°13	5°10	29° 3	4°44	5°56	2°55	n.a.	W21
T 22	1 47 35	25°34'28	28°45	8°26	4°10	22°37	10° 9	24°31	17°14	5° 9	29° 2	4°36	5°53	3° 2	n.a.	T 22
F 23	1 51 31	26°35'14	11♎34	9°57	5°25	23°11	10° 5	24°36	17°15	5° 7	29° 0	4°29	5°50	3° 8	n.a.	F 23
S 24	1 55 28	27°36'01	24°40	11°27	6°41	23°45	10° 2	24°40	17°16	5° 6	28°59	4°23	5°47	3°15	n.a.	S 24
S 25	1 59 24	28°36'49	8♏ 2	12°57	7°56	24°19	9°59	24°45	17°17	5° 4	28°58	4°19	5°44	3°22	n.a.	S 25
M26	2 3 21	29°37'39	21°36	14°26	9°11	24°53	9°56	24°50	17°18	5° 3	28°57	4°16	5°40	3°28	n.a.	M26
T 27	2 7 18	0♏38'30	5♐21	15°55	10°27	25°27	9°54	24°55	17°20	5° 1	28°56	4°D15	5°37	3°35	n.a.	T 27
W28	2 11 14	1°39'23	19°15	17°24	11°42	26° 1	9°51	25° 0	17°21	5° 0	28°55	4°16	5°34	3°42	n.a.	W28
T 29	2 15 11	2°40'17	3♑16	18°52	12°57	26°34	9°49	25° 6	17°23	4°58	28°54	4°18	5°31	3°49	n.a.	T 29
F 30	2 19 7	3°41'11	17°21	20°20	14°13	27° 8	9°47	25°11	17°24	4°57	28°52	4°19	5°28	3°55	n.a.	F 30
S 31	2 23 4	4♏42'07	1♒30	21♏47	15♏28	27♌41	9♓45	25♐16	17♑26	4♈55	28♈51	4°R20	5♊24	4♌ 2	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl		decl	lat
T 1	1 s47	24 s57	1 s27	1 s43	0n34	2 s11	1n 1	19n11	1n25	8 s45	1 s45	23 s15	0n17	23 s10	0 s34	0n29	1 s59	1 s55	14 s13	21n32	21n43	24n17			n.a.
F 2	2 11	26 8	2 35	2 28	0 28	2 43	0 59	19 2	1 25	8 47	1 45	23 15	0 17	23 10	0 34	0 29	1 59	1 55	14 13	21 32	21 43	24 16			n.a.
S 3	2 35	25 40	3 35	3 13	0 21	3 14	0 58	18 53	1 26	8 50	1 44	23 15	0 17	23 10	0 34	0 28	1 59	1 56	14 13	21 32	21 42	24 15			n.a.
S 4	2 59	23 30	4 22	3 57	0 15	3 46	0 56	18 43	1 27	8 52	1 44	23 15	0 17	23 10	0 34	0 27	1 59	1 56	14 13	21 32	21 42	24 14			n.a.
M 5	3 23	19 49	4 53	4 41	0 8	4 17	0 54	18 34	1 27	8 54	1 44	23 16	0 17	23 10	0 34	0 26	1 59	1 57	14 13	21 31	21 41	24 13			n.a.
T 6	3 47	14 56	5 5	5 25	0 2	4 48	0 52	18 24	1 28	8 57	1 44	23 16	0 17	23 10	0 34	0 26	1 59	1 57	14 13	21 29	21 41	24 12			n.a.
W 7	4 11	9 12	4 57	6 9	0s 5	5 19	0 50	18 14	1 28	8 59	1 44	23 16	0 17	23 10	0 34	0 25	1 59	1 58	14 13	21 28	21 40	24 11			n.a.
T 8	4 35	3 3	4 31	6 52	0 12	5 51	0 49	18 4	1 29	9 1	1 43	23 16	0 16	23 10	0 34	0 24	1 59	1 58	14 13	21 26	21 40	24 9			n.a.
F 9	4 58	3n11	3 49	7 34	0 18	6 21	0 47	17 55	1 30	9 3	1 43	23 17	0 16	23 10	0 34	0 24	1 59	1 58	14 13	21 25	21 39	24 8			n.a.
S 10	5 22	9 7	2 54	8 17	0 25	6 52	0 45	17 45	1 30	9 5	1 43	23 17	0 16	23 10	0 34	0 23	1 59	1 59	14 13	21 23	21 38	24 7			n.a.
S 11	5 46	14 29	1 50	8 58	0 31	7 23	0 43	17 35	1 31	9 7	1 43	23 17	0 16	23 10	0 34	0 22	1 59	1 59	14 14	21 23	21 38	24 6			n.a.
M12	6 10	19 3	0 42	9 40	0 38	7 53	0 40	17 25	1 31	9 9	1 43	23 18	0 16	23 10	0 34	0 22	1 59	2 0	14 14	21 22	21 37	24 5			n.a.
T 13	6 33	22 35	0n26	10 21	0 44	8 24	0 38	17 14	1 32	9 11	1 42	23 18	0 16	23 10	0 34	0 21	1 59	2 0	14 14	21 22	21 37	24 4			n.a.
W14	6 56	24 59	1 31	11 1	0 50	8 54	0 36	17 4	1 33	9 12	1 42	23 18	0 16	23 9	0 34	0 21	1 59	2 0	14 14	21 22	21 36	24 3			n.a.
T 15	7 20	26 10	2 31	11 40	0 57	9 24	0 34	16 54	1 33	9 14	1 42	23 18	0 16	23 9	0 34	0 20	1 59	2 1	14 14	21 23	21 36	24 2			n.a.
F 16	7 43	26 6	3 24	12 20	1 3	9 53	0 32	16 44	1 34	9 16	1 42	23 19	0 16	23 9	0 34	0 19	1 59	2 1	14 14	21 23	21 35	24 1			n.a.
S 17	8 6	24 50	4 7	12 58	1 9	10 23	0 30	16 33	1 35	9 17	1 41	23 19	0 16	23 9	0 34	0 19	1 59	2 2	14 14	21 23	21 35	24 0			n.a.
S 18	8 29	22 28	4 40	13 36	1 15	10 52	0 27	16 23	1 35	9 18	1 41	23 19	0 15	23 9	0 34	0 18	1 59	2 2	14 14	21 22	21 34	23 59			n.a.
M19	8 52	19 9	5 1	14 13	1 21	11 21	0 25	16 12	1 36	9 20	1 41	23 20	0 15	23 9	0 34	0 17	1 59	2 2	14 14	21 22	21 33	23 58			n.a.
T 20	9 15	14 59	5 9	14 50	1 26	11 49	0 23	16 1	1 36	9 21	1 41	23 20	0 15	23 9	0 34	0 17	1 58	2 3	14 14	21 21	21 33	23 57			n.a.
W21	9 37	10 9	5 3	15 25	1 32	12 18	0 21	15 51	1 37	9 22	1 40	23 20	0 15	23 8	0 34	0 16	1 58	2 3	14 14	21 19	21 32	23 55			n.a.
T 22	10 0	4 49	4 43	16 0	1 37	12 46	0 18	15 40	1 38	9 23	1 40	23 21	0 15	23 8	0 33	0 16	1 58	2 4	14 14	21 18	21 32	23 54			n.a.
F 23	10 22	0s50	4 7	16 35	1 42	13 14	0 16	15 29	1 38	9 24	1 40	23 21	0 15	23 8	0 33	0 15	1 58	2 4	14 14	21 17	21 31	23 53			n.a.
S 24	10 44	6 35	3 19	17 8	1 47	13 41	0 14	15 19	1 39	9 25	1 40	23 21	0 15	23 8	0 33	0 14	1 58	2 4	14 14	21 15	21 31	23 52			n.a.
S 25	11 6	12 10	2 18	17 41	1 52	14 8	0 11	15 8	1 40	9 26	1 39	23 21	0 15	23 8	0 33	0 14	1 58	2 5	14 14	21 15	21 30	23 51			n.a.
M26	11 28	17 16	1 9	18 12	1 56	14 35	0 9	14 57	1 40	9 27	1 39	23 22	0 15	23 8	0 33	0 13	1 58	2 5	14 14	21 14	21 30	23 50			n.a.
T 27	11 50	21 32	0s 6	18 43	2 1	15 1	0 6	14 46	1 41	9 28	1 39	23 22	0 15	23 7	0 33	0 13	1 58	2 5	14 14	21 14	21 29	23 48			n.a.
W28	12 11	24 37	1 21	19 12	2 5	15 27	0 4	14 35	1 42	9 29	1 38	23 22	0 14	23 7	0 33	0 12	1 58	2 6	14 14	21 14	21 28	23 47			n.a.
T 29	12 32	26 12	2 32	19 41	2 8	15 53	0 1	14 24	1 42	9 29	1 38	23 23	0 14	23 7	0 33	0 11	1 58	2 6	14 14	21 14	21 28	23 46			n.a.
F 30	12 53	26 6	3 34	20 8	2 12	16 18	0s 1	14 13	1 43	9 30	1 38	23 23	0 14	23 7	0 33	0 11	1 58	2 6	14 13	21 15	21 27	23 45			n.a.
S 31	13 s14	24 s20	4 s24	20 s35	2 s15	16 s43	0s 3	14n 2	1n44	9 s30	1 s38	23 s23	0n14	23 s 7	0 s33	0n10	1 s58	2 s 7	14 s13	21n15	21n27	23n44			n.a.

Julian Day Number = 1684440.5, Delta T = 03h13m45s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'48, Lahiri = - 5°20'47 Julian Calendar 1 Oct. 102 BCE == Greg. Calendar 28 Sept. 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

NOVEMBER 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 27 0	5♏43'03	15♒40	23♏13	16♏43	28♌15	9°R44	25♐22	17♑27	4°R54	28°R50	4°R20	5♊21	4♌ 9	n.a.	S 1
M 2	2 30 57	6°44'00	29°50	24°39	17°59	28°48	9♓43	25°27	17°29	4♈53	28♈49	4♊18	5°18	4°15	n.a.	M 2
T 3	2 34 53	7°44'58	13♓57	26° 4	19°14	29°21	9°41	25°33	17°31	4°51	28°48	4°15	5°15	4°22	n.a.	T 3
W 4	2 38 50	8°45'56	27°58	27°27	20°29	29°54	9°40	25°38	17°32	4°50	28°47	4°11	5°12	4°29	n.a.	W 4
T 5	2 42 47	9°46'56	11♈51	28°50	21°45	0♍27	9°40	25°44	17°34	4°49	28°46	4° 7	5° 9	4°36	n.a.	T 5
F 6	2 46 43	10°47'56	25°31	0♐10	23° 0	1° 0	9°39	25°49	17°36	4°47	28°45	4° 4	5° 5	4°42	n.a.	F 6
S 7	2 50 40	11°48'58	8♉57	1°30	24°15	1°33	9°39	25°55	17°38	4°46	28°44	4° 1	5° 2	4°49	n.a.	S 7
S 8	2 54 36	12°50'00	22° 6	2°47	25°30	2° 6	9°D39	26° 1	17°40	4°45	28°42	4° 0	4°59	4°56	n.a.	S 8
M 9	2 58 33	13°51'03	4♊57	4° 2	26°46	2°39	9°39	26° 7	17°41	4°44	28°41	3°D59	4°56	5° 2	n.a.	M 9
T 10	3 2 29	14°52'08	17°32	5°15	28° 1	3°11	9°39	26°13	17°43	4°42	28°40	4° 0	4°53	5° 9	n.a.	T 10
W11	3 6 26	15°53'13	29°51	6°25	29°16	3°44	9°40	26°19	17°45	4°41	28°39	4° 1	4°50	5°16	n.a.	W11
T 12	3 10 22	16°54'20	11♋57	7°31	0♐31	4°16	9°40	26°25	17°48	4°40	28°38	4° 2	4°46	5°22	n.a.	T 12
F 13	3 14 19	17°55'27	23°54	8°33	1°47	4°48	9°41	26°31	17°50	4°39	28°37	4° 4	4°43	5°29	n.a.	F 13
S 14	3 18 16	18°56'35	5♌46	9°31	3° 2	5°20	9°43	26°37	17°52	4°38	28°36	4° 5	4°40	5°36	n.a.	S 14
S 15	3 22 12	19°57'45	17°37	10°24	4°17	5°52	9°44	26°43	17°54	4°37	28°35	4°R 6	4°37	5°43	n.a.	S 15
M16	3 26 9	20°58'55	29°33	11°11	5°32	6°24	9°45	26°49	17°56	4°36	28°34	4° 5	4°34	5°49	n.a.	M16
T 17	3 30 5	22° 0'06	11♍39	11°51	6°48	6°56	9°47	26°55	17°59	4°35	28°33	4° 5	4°30	5°56	n.a.	T 17
W18	3 34 2	23° 1'18	23°58	12°23	8° 3	7°28	9°49	27° 2	18° 1	4°34	28°32	4° 3	4°27	6° 3	n.a.	W18
T 19	3 37 58	24° 2'30	6♎34	12°47	9°18	8° 0	9°51	27° 8	18° 3	4°33	28°31	4° 2	4°24	6° 9	n.a.	T 19
F 20	3 41 55	25° 3'44	19°31	13° 1	10°33	8°31	9°54	27°14	18° 6	4°32	28°30	4° 1	4°21	6°16	n.a.	F 20
S 21	3 45 51	26° 4'58	2♏49	13°R 6	11°48	9° 2	9°56	27°21	18° 8	4°31	28°29	3°59	4°18	6°23	n.a.	S 21
S 22	3 49 48	27° 6'12	16°28	12°59	13° 4	9°34	9°59	27°27	18°10	4°30	28°28	3°59	4°15	6°30	n.a.	S 22
M23	3 53 45	28° 7'27	0♐26	12°41	14°19	10° 5	10° 2	27°34	18°13	4°29	28°27	3°D59	4°11	6°36	n.a.	M23
T 24	3 57 41	29° 8'43	14°39	12°11	15°34	10°36	10° 5	27°40	18°15	4°28	28°26	3°59	4° 8	6°43	n.a.	T 24
W25	4 1 38	0♐ 9'59	29° 2	11°29	16°49	11° 6	10° 9	27°47	18°18	4°27	28°25	3°59	4° 5	6°50	n.a.	W25
T 26	4 5 34	1°11'15	13♑31	10°37	18° 4	11°37	10°12	27°53	18°21	4°27	28°24	3°59	4° 2	6°56	n.a.	T 26
F 27	4 9 31	2°12'31	28° 0	9°34	19°19	12° 8	10°16	28° 0	18°23	4°26	28°23	3°59	3°59	7° 3	n.a.	F 27
S 28	4 13 27	3°13'46	12♒24	8°23	20°35	12°38	10°20	28° 7	18°26	4°25	28°22	4° 0	3°55	7°10	n.a.	S 28
S 29	4 17 24	4°15'02	26°40	7° 6	21°50	13° 8	10°24	28°13	18°29	4°24	28°21	4° 0	3°52	7°16	n.a.	S 29
M30	4 21 21	5♐16'17	10♓45	5♐45	23♐ 5	13♏38	10♓28	28♐20	18♑31	4♈24	28♈20	4♊ 0	3♊49	7♌23	n.a.	M30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	13s35	21s 2	4s57	21s 0	2s17	17s 7	0s 6	13n51	1n44	9s30	1s37	23s23	0n14	23s 6	0s33	0n10	1s58	2s 7	14s13	21n15	21n26	23n43		n.a.
M 2	13 55	16 31	5 12	21 24	2 19	17 31	0 8	13 40	1 45	9 31	1 37	23 24	0 14	23 6	0 33	0 9	1 58	2 7	14 13	21 15	21 26	23 41		n.a.
T 3	14 15	11 7	5 9	21 46	2 21	17 54	0 11	13 28	1 46	9 31	1 37	23 24	0 14	23 6	0 33	0 9	1 58	2 8	14 13	21 14	21 25	23 40		n.a.
W 4	14 35	5 12	4 47	22 7	2 23	18 17	0 13	13 17	1 46	9 31	1 36	23 24	0 14	23 6	0 33	0 8	1 58	2 8	14 13	21 13	21 24	23 39		n.a.
T 5	14 55	0n56	4 8	22 27	2 23	18 39	0 16	13 6	1 47	9 31	1 36	23 25	0 14	23 5	0 33	0 8	1 58	2 8	14 13	21 13	21 24	23 38		n.a.
F 6	15 14	6 56	3 16	22 45	2 24	19 1	0 18	12 55	1 48	9 31	1 36	23 25	0 14	23 5	0 33	0 7	1 58	2 9	14 13	21 12	21 23	23 36		n.a.
S 7	15 33	12 32	2 14	23 2	2 23	19 23	0 20	12 43	1 48	9 31	1 35	23 25	0 14	23 5	0 33	0 7	1 58	2 9	14 13	21 11	21 23	23 35		n.a.
S 8	15 52	17 27	1 5	23 17	2 22	19 43	0 23	12 32	1 49	9 30	1 35	23 25	0 13	23 5	0 33	0 6	1 58	2 9	14 13	21 11	21 22	23 34		n.a.
M 9	16 10	21 27	0n 5	23 30	2 21	20 4	0 25	12 21	1 50	9 30	1 35	23 26	0 13	23 4	0 33	0 6	1 58	2 10	14 13	21 11	21 22	23 33		n.a.
T 10	16 29	24 21	1 14	23 41	2 18	20 23	0 28	12 10	1 50	9 30	1 35	23 26	0 13	23 4	0 33	0 5	1 58	2 10	14 13	21 11	21 21	23 31		n.a.
W11	16 47	26 0	2 18	23 50	2 15	20 42	0 30	11 58	1 51	9 29	1 34	23 26	0 13	23 4	0 33	0 5	1 58	2 10	14 12	21 11	21 20	23 30		n.a.
T 12	17 4	26 24	3 15	23 58	2 11	21 1	0 32	11 47	1 52	9 29	1 34	23 26	0 13	23 3	0 33	0 5	1 58	2 10	14 12	21 12	21 20	23 29		n.a.
F 13	17 22	25 32	4 2	24 3	2 6	21 19	0 35	11 36	1 52	9 28	1 34	23 27	0 13	23 3	0 33	0 4	1 58	2 11	14 12	21 12	21 19	23 28		n.a.
S 14	17 39	23 32	4 39	24 6	2 0	21 36	0 37	11 24	1 53	9 27	1 33	23 27	0 13	23 3	0 33	0 4	1 58	2 11	14 12	21 12	21 19	23 26		n.a.
S 15	17 56	20 32	5 4	24 7	1 53	21 53	0 39	11 13	1 54	9 26	1 33	23 27	0 13	23 2	0 33	0 3	1 58	2 11	14 12	21 12	21 18	23 25		n.a.
M16	18 12	16 40	5 15	24 6	1 44	22 9	0 42	11 2	1 54	9 26	1 33	23 27	0 13	23 2	0 33	0 3	1 58	2 11	14 12	21 12	21 17	23 24		n.a.
T 17	18 28	12 6	5 14	24 2	1 35	22 24	0 44	10 50	1 55	9 25	1 32	23 28	0 13	23 2	0 33	0 3	1 57	2 11	14 12	21 12	21 17	23 22		n.a.
W18	18 44	6 58	4 58	23 55	1 24	22 39	0 46	10 39	1 56	9 24	1 32	23 28	0 13	23 1	0 33	0 2	1 57	2 12	14 11	21 12	21 16	23 21		n.a.
T 19	19 0	1 26	4 27	23 46	1 12	22 53	0 48	10 28	1 57	9 22	1 32	23 28	0 12	23 1	0 33	0 2	1 57	2 12	14 11	21 11	21 16	23 20		n.a.
F 20	19 15	4s18	3 42	23 35	0 58	23 7	0 50	10 17	1 57	9 21	1 31	23 28	0 12	23 1	0 33	0 2	1 57	2 12	14 11	21 11	21 15	23 18		n.a.
S 21	19 29	10 1	2 44	23 20	0 43	23 19	0 53	10 5	1 58	9 20	1 31	23 29	0 12	23 0	0 33	0 1	1 57	2 12	14 11	21 11	21 14	23 17		n.a.
S 22	19 44	15 25	1 36	23 3	0 27	23 31	0 55	9 54	1 59	9 19	1 31	23 29	0 12	23 0	0 33	0 1	1 57	2 12	14 11	21 11	21 14	23 16		n.a.
M23	19 58	20 9	0 20	22 43	0 9	23 43	0 57	9 43	1 59	9 17	1 31	23 29	0 12	23 0	0 33	0 1	1 57	2 13	14 11	21 11	21 13	23 14		n.a.
T 24	20 12	23 47	0s59	22 21	0n10	23 53	0 59	9 32	2 0	9 16	1 30	23 29	0 12	22 59	0 33	0 0	1 57	2 13	14 10	21 11	21 13	23 13		n.a.
W25	20 25	25 57	2 15	21 56	0 29	24 3	1 1	9 20	2 1	9 14	1 30	23 29	0 12	22 59	0 33	0 0	1 57	2 13	14 10	21 11	21 12	23 12		n.a.
T 26	20 38	26 22	3 22	21 29	0 49	24 12	1 3	9 9	2 2	9 12	1 30	23 30	0 12	22 59	0 33	0s 0	1 57	2 13	14 10	21 11	21 11	23 10		n.a.
F 27	20 50	24 59	4 17	21 0	1 9	24 21	1 5	8 58	2 2	9 11	1 29	23 30	0 12	22 58	0 33	0 0	1 57	2 13	14 10	21 11	21 11	23 9		n.a.
S 28	21 2	21 59	4 55	20 29	1 29	24 29	1 7	8 47	2 3	9 9	1 29	23 30	0 12	22 58	0 33	0 1	1 57	2 13	14 10	21 11	21 10	23 8		n.a.
S 29	21 14	17 41	5 15	19 58	1 48	24 35	1 8	8 36	2 4	9 7	1 29	23 30	0 12	22 58	0 33	0 1	1 57	2 13	14 9	21 11	21 10	23 6		n.a.
M30	21s25	12s28	5s15	19s26	2n 6	24s42	1s10	8n25	2n 5	9s 5	1s28	23s30	0n12	22s57	0s33	0s 1	1s57	2s14	14s 9	21n11	21n 9	23n 5		n.a.

Julian Day Number = 1684471.5, Delta T = 03h13m44s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'43, Lahiri = - 5°20'43 Julian Calendar 1 Nov. 102 BCE == Greg. Calendar 29 Oct. 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 102 BCE
geocentric

DECEMBER 102 BCE (-101) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 25 17	6♐17'32	24♓38	4°R23	24♐20	14♍ 8	10♓33	28♐27	18♑34	4°R23	28°R19	4♊ 0	3♊46	7♌30	n.a.	T 1
W 2	4 29 14	7°18'47	8♈17	3♐ 3	25°35	14°38	10°38	28°34	18°37	4♈23	28♈19	4° 0	3°43	7°37	n.a.	W 2
T 3	4 33 10	8°20'02	21°43	1°47	26°50	15° 8	10°42	28°41	18°40	4°22	28°18	4° 0	3°40	7°43	n.a.	T 3
F 4	4 37 7	9°21'16	4♉56	0°38	28° 5	15°37	10°48	28°47	18°43	4°22	28°17	4° 1	3°36	7°50	n.a.	F 4
S 5	4 41 3	10°22'30	17°56	29♏36	29°20	16° 6	10°53	28°54	18°46	4°21	28°16	4° 1	3°33	7°57	n.a.	S 5
S 6	4 45 0	11°23'44	0♊43	28°44	0♑35	16°36	10°58	29° 1	18°49	4°21	28°15	4°R 2	3°30	8° 3	n.a.	S 6
M 7	4 48 56	12°24'57	13°18	28° 1	1°50	17° 5	11° 4	29° 8	18°51	4°20	28°15	4° 1	3°27	8°10	n.a.	M 7
T 8	4 52 53	13°26'11	25°41	27°29	3° 5	17°33	11°10	29°15	18°54	4°20	28°14	4° 1	3°24	8°17	n.a.	T 8
W 9	4 56 50	14°27'24	7♋53	27° 7	4°20	18° 2	11°16	29°22	18°57	4°19	28°13	4° 0	3°21	8°24	n.a.	W 9
T 10	5 0 46	15°28'37	19°55	26°54	5°35	18°30	11°22	29°29	19° 1	4°19	28°12	3°58	3°17	8°30	n.a.	T 10
F 11	5 4 43	16°29'50	1♌51	26°D51	6°50	18°59	11°28	29°36	19° 4	4°19	28°12	3°56	3°14	8°37	n.a.	F 11
S 12	5 8 39	17°31'03	13°43	26°57	8° 5	19°27	11°34	29°43	19° 7	4°19	28°11	3°54	3°11	8°44	n.a.	S 12
S 13	5 12 36	18°32'16	25°35	27°11	9°20	19°55	11°41	29°50	19°10	4°18	28°10	3°52	3° 8	8°50	n.a.	S 13
M14	5 16 32	19°33'28	7♍29	27°32	10°34	20°22	11°48	29°57	19°13	4°18	28°10	3°51	3° 5	8°57	n.a.	M14
T 15	5 20 29	20°34'40	19°32	27°59	11°49	20°50	11°55	0♑ 4	19°16	4°18	28° 9	3°D51	3° 1	9° 4	n.a.	T 15
W16	5 24 26	21°35'52	1♎47	28°33	13° 4	21°17	12° 2	0°11	19°19	4°18	28° 8	3°51	2°58	9°11	n.a.	W16
T 17	5 28 22	22°37'03	14°20	29°12	14°19	21°44	12° 9	0°18	19°22	4°18	28° 8	3°52	2°55	9°17	n.a.	T 17
F 18	5 32 19	23°38'14	27°14	29°56	15°34	22°11	12°17	0°25	19°26	4°18	28° 7	3°54	2°52	9°24	n.a.	F 18
S 19	5 36 15	24°39'25	10♏32	0♐45	16°49	22°38	12°24	0°33	19°29	4°D18	28° 7	3°55	2°49	9°31	n.a.	S 19
S 20	5 40 12	25°40'35	24°16	1°38	18° 3	23° 4	12°32	0°40	19°32	4°18	28° 6	3°56	2°46	9°37	n.a.	S 20
M21	5 44 8	26°41'45	8♐26	2°34	19°18	23°31	12°40	0°47	19°35	4°18	28° 5	3°R56	2°42	9°44	n.a.	M21
T 22	5 48 5	27°42'55	22°58	3°33	20°33	23°57	12°48	0°54	19°39	4°18	28° 5	3°55	2°39	9°51	n.a.	T 22
W23	5 52 1	28°44'03	7♑46	4°35	21°47	24°22	12°56	1° 1	19°42	4°18	28° 4	3°53	2°36	9°58	n.a.	W23
T 24	5 55 58	29°45'11	22°44	5°40	23° 2	24°48	13° 5	1° 8	19°45	4°18	28° 4	3°50	2°33	10° 4	n.a.	T 24
F 25	5 59 55	0♑46'17	7♒41	6°47	24°17	25°13	13°13	1°15	19°49	4°19	28° 4	3°46	2°30	10°11	n.a.	F 25
S 26	6 3 51	1°47'23	22°30	7°57	25°31	25°38	13°22	1°22	19°52	4°19	28° 3	3°42	2°27	10°18	n.a.	S 26
S 27	6 7 48	2°48'27	7♓ 4	9° 8	26°46	26° 3	13°31	1°30	19°55	4°19	28° 3	3°39	2°23	10°24	n.a.	S 27
M28	6 11 44	3°49'30	21°19	10°21	28° 1	26°27	13°39	1°37	19°59	4°19	28° 2	3°37	2°20	10°31	n.a.	M28
T 29	6 15 41	4°50'32	5♈11	11°36	29°15	26°51	13°48	1°44	20° 2	4°20	28° 2	3°D36	2°17	10°38	n.a.	T 29
W30	6 19 37	5°51'32	18°43	12°53	0♒30	27°15	13°58	1°51	20° 6	4°20	28° 2	3°37	2°14	10°45	n.a.	W30
T 31	6 23 34	6♑52'31	1♉54	14♐10	1♒44	27♍39	14♓ 7	1♑58	20♑ 9	4♈21	28♈ 1	3♊38	2♊11	10♌51	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	21s36	6s41	4s57	18s56	2n22	24s47	1s12	8n14	2n 5	9s 3	1s28	23s30	0n11	22s57	0s33	0s 1	1s57	2s14	14s 9	21n11	21n 8	23n 3			n.a.
W 2	21 47	0 41	4 22	18 27	2 36	24 52	1 14	8 3	2 6	9 1	1 28	23 31	0 11	22 56	0 33	0 1	1 57	2 14	14 9	21 11	21 8	23 2			n.a.
T 3	21 57	5n15	3 34	18 1	2 48	24 55	1 15	7 52	2 7	8 59	1 28	23 31	0 11	22 56	0 33	0 2	1 57	2 14	14 9	21 11	21 7	23 1			n.a.
F 4	22 6	10 53	2 34	17 37	2 57	24 59	1 17	7 41	2 8	8 57	1 27	23 31	0 11	22 55	0 33	0 2	1 57	2 14	14 8	21 11	21 7	22 59			n.a.
S 5	22 15	15 58	1 28	17 18	3 4	25 1	1 18	7 30	2 8	8 54	1 27	23 31	0 11	22 55	0 33	0 2	1 56	2 14	14 8	21 11	21 6	22 58			n.a.
S 6	22 24	20 14	0 18	17 2	3 9	25 2	1 20	7 20	2 9	8 52	1 27	23 31	0 11	22 55	0 33	0 2	1 56	2 14	14 8	21 11	21 5	22 56			n.a.
M 7	22 32	23 30	0n51	16 50	3 11	25 3	1 21	7 9	2 10	8 50	1 26	23 31	0 11	22 54	0 33	0 2	1 56	2 14	14 8	21 11	21 5	22 55			n.a.
T 8	22 40	25 35	1 57	16 42	3 12	25 3	1 23	6 58	2 11	8 47	1 26	23 31	0 11	22 54	0 33	0 2	1 56	2 14	14 7	21 11	21 4	22 53			n.a.
W 9	22 47	26 25	2 57	16 38	3 11	25 2	1 24	6 48	2 12	8 45	1 26	23 32	0 11	22 53	0 33	0 2	1 56	2 14	14 7	21 11	21 4	22 52			n.a.
T 10	22 54	25 58	3 48	16 38	3 8	25 1	1 25	6 37	2 12	8 42	1 25	23 32	0 11	22 53	0 33	0 2	1 56	2 14	14 7	21 11	21 3	22 51			n.a.
F 11	23 1	24 19	4 28	16 41	3 4	24 58	1 27	6 27	2 13	8 39	1 25	23 32	0 11	22 52	0 33	0 2	1 56	2 14	14 7	21 10	21 2	22 49			n.a.
S 12	23 7	21 37	4 57	16 48	2 59	24 55	1 28	6 16	2 14	8 36	1 25	23 32	0 11	22 52	0 33	0 2	1 56	2 14	14 6	21 10	21 2	22 48			n.a.
S 13	23 12	18 2	5 13	16 57	2 53	24 51	1 29	6 6	2 15	8 34	1 25	23 32	0 11	22 52	0 33	0 2	1 56	2 14	14 6	21 10	21 1	22 46			n.a.
M14	23 18	13 43	5 15	17 8	2 46	24 47	1 30	5 56	2 15	8 31	1 24	23 32	0 10	22 51	0 33	0 2	1 56	2 14	14 6	21 9	21 1	22 45			n.a.
T 15	23 22	8 50	5 4	17 21	2 39	24 41	1 31	5 45	2 16	8 28	1 24	23 32	0 10	22 51	0 33	0 2	1 56	2 14	14 6	21 9	21 0	22 43			n.a.
W16	23 26	3 32	4 39	17 36	2 31	24 35	1 32	5 35	2 17	8 25	1 24	23 32	0 10	22 50	0 33	0 2	1 56	2 14	14 5	21 9	20 59	22 42			n.a.
T 17	23 30	2s 1	4 1	17 53	2 23	24 28	1 33	5 25	2 18	8 22	1 24	23 32	0 10	22 50	0 33	0 2	1 56	2 14	14 5	21 10	20 59	22 40			n.a.
F 18	23 33	7 40	3 9	18 11	2 14	24 20	1 34	5 15	2 19	8 19	1 23	23 32	0 10	22 49	0 33	0 2	1 56	2 14	14 5	21 10	20 58	22 39			n.a.
S 19	23 36	13 10	2 6	18 30	2 5	24 12	1 34	5 5	2 20	8 15	1 23	23 32	0 10	22 49	0 33	0 2	1 56	2 14	14 5	21 10	20 57	22 37			n.a.
S 20	23 38	18 12	0 53	18 49	1 56	24 3	1 35	4 55	2 20	8 12	1 23	23 32	0 10	22 48	0 33	0 2	1 56	2 14	14 4	21 10	20 57	22 36			n.a.
M21	23 40	22 22	0s25	19 9	1 47	23 53	1 36	4 46	2 21	8 9	1 23	23 32	0 10	22 48	0 33	0 2	1 55	2 14	14 4	21 10	20 56	22 34			n.a.
T 22	23 41	25 14	1 43	19 30	1 38	23 42	1 36	4 36	2 22	8 6	1 22	23 32	0 10	22 47	0 33	0 2	1 55	2 14	14 4	21 10	20 56	22 33			n.a.
W23	23 42	26 24	2 55	19 50	1 29	23 31	1 36	4 26	2 23	8 2	1 22	23 33	0 10	22 47	0 33	0 2	1 55	2 14	14 3	21 10	20 55	22 31			n.a.
T 24	23 42	25 39	3 57	20 11	1 20	23 18	1 37	4 17	2 24	7 59	1 22	23 33	0 10	22 46	0 33	0 2	1 55	2 13	14 3	21 9	20 54	22 30			n.a.
F 25	23 42	23 5	4 41	20 31	1 11	23 6	1 37	4 8	2 24	7 55	1 21	23 33	0 10	22 46	0 33	0 2	1 55	2 13	14 3	21 8	20 54	22 28			n.a.
S 26	23 42	19 0	5 7	20 52	1 2	22 52	1 37	3 58	2 25	7 51	1 21	23 33	0 10	22 45	0 33	0 2	1 55	2 13	14 3	21 8	20 53	22 26			n.a.
S 27	23 41	13 50	5 13	21 12	0 53	22 38	1 38	3 49	2 26	7 48	1 21	23 33	0 9	22 45	0 33	0 1	1 55	2 13	14 2	21 7	20 52	22 25			n.a.
M28	23 39	8 3	4 58	21 32	0 44	22 23	1 38	3 40	2 27	7 44	1 21	23 33	0 9	22 44	0 33	0 1	1 55	2 13	14 2	21 7	20 52	22 23			n.a.
T 29	23 37	2 0	4 27	21 51	0 35	22 8	1 38	3 31	2 28	7 40	1 21	23 33	0 9	22 44	0 33	0 1	1 55	2 13	14 2	21 7	20 51	22 22			n.a.
W30	23 35	4n 0	3 41	22 9	0 27	21 52	1 38	3 22	2 29	7 37	1 20	23 32	0 9	22 43	0 33	0 1	1 55	2 13	14 1	21 7	20 50	22 20			n.a.
T 31	23s32	9n41	2s45	22s27	0n18	21s35	1s38	3n14	2n30	7s33	1s20	23s32	0n 9	22s43	0s33	0s 1	1s55	2s12	14s 1	21n 7	20n50	22n19			n.a.

Julian Day Number = 1684501.5, Delta T = 03h13m43s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'39, Lahiri = - 5°20'39 Julian Calendar 1 Dec. 102 BCE == Greg. Calendar 28 Nov. 102 BCE

The year -101 astronomical counting style corresponds to year 102 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

JANUARY 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 27 30	7♑53'28	14♉48	15♐29	2♒59	28♍ 2	14♓16	2♑ 5	20♑12	4♈21	28°R 1	3♊40	2♊ 7	10♌58	n.a.	F 1
S 2	6 31 27	8°54'24	27°27	16°50	4°13	28°25	14°26	2°12	20°16	4°22	28♈ 1	3°R41	2° 4	11° 5	n.a.	S 2
S 3	6 35 24	9°55'19	9♊55	18°11	5°27	28°48	14°36	2°19	20°19	4°22	28° 0	3°41	2° 1	11°11	n.a.	S 3
M 4	6 39 20	10°56'13	22°12	19°34	6°42	29°10	14°46	2°27	20°23	4°23	28° 0	3°39	1°58	11°18	n.a.	M 4
T 5	6 43 17	11°57'05	4♋21	20°58	7°56	29°32	14°55	2°34	20°26	4°23	28° 0	3°36	1°55	11°25	n.a.	T 5
W 6	6 47 13	12°57'56	16°24	22°22	9°10	29°54	15° 6	2°41	20°30	4°24	28° 0	3°30	1°52	11°32	n.a.	W 6
T 7	6 51 10	13°58'46	28°21	23°48	10°25	0♎16	15°16	2°48	20°33	4°24	28° 0	3°23	1°48	11°38	n.a.	T 7
F 8	6 55 6	14°59'34	10♌15	25°15	11°39	0°37	15°26	2°55	20°37	4°25	27°59	3°14	1°45	11°45	n.a.	F 8
S 9	6 59 3	16° 0'21	22° 7	26°42	12°53	0°58	15°36	3° 2	20°40	4°26	27°59	3° 6	1°42	11°52	n.a.	S 9
S 10	7 3 0	17° 1'07	3♍59	28°11	14° 7	1°18	15°47	3° 9	20°44	4°27	27°59	2°58	1°39	11°58	n.a.	S 10
M11	7 6 56	18° 1'51	15°54	29°40	15°21	1°38	15°58	3°16	20°47	4°27	27°59	2°52	1°36	12° 5	n.a.	M11
T 12	7 10 53	19° 2'34	27°55	1♑10	16°35	1°58	16° 8	3°23	20°50	4°28	27°59	2°47	1°33	12°12	n.a.	T 12
W13	7 14 49	20° 3'16	10♎ 7	2°41	17°49	2°17	16°19	3°30	20°54	4°29	27°59	2°45	1°29	12°19	n.a.	W13
T 14	7 18 46	21° 3'57	22°34	4°13	19° 3	2°36	16°30	3°37	20°57	4°30	27°59	2°D44	1°26	12°25	n.a.	T 14
F 15	7 22 42	22° 4'37	5♏21	5°46	20°17	2°55	16°41	3°44	21° 1	4°31	27°D59	2°45	1°23	12°32	n.a.	F 15
S 16	7 26 39	23° 5'15	18°32	7°20	21°31	3°13	16°52	3°50	21° 4	4°32	27°59	2°46	1°20	12°39	n.a.	S 16
S 17	7 30 35	24° 5'52	2♐ 9	8°55	22°45	3°31	17° 3	3°57	21° 8	4°33	27°59	2°R47	1°17	12°45	n.a.	S 17
M18	7 34 32	25° 6'28	16°16	10°30	23°59	3°48	17°15	4° 4	21°11	4°34	27°59	2°46	1°13	12°52	n.a.	M18
T 19	7 38 29	26° 7'02	0♑50	12° 6	25°12	4° 5	17°26	4°11	21°15	4°35	27°59	2°43	1°10	12°59	n.a.	T 19
W20	7 42 25	27° 7'35	15°48	13°44	26°26	4°21	17°38	4°18	21°18	4°36	27°59	2°37	1° 7	13° 6	n.a.	W20
T 21	7 46 22	28° 8'06	1♒ 1	15°22	27°40	4°37	17°49	4°25	21°22	4°37	27°59	2°30	1° 4	13°12	n.a.	T 21
F 22	7 50 18	29° 8'35	16°18	17° 1	28°53	4°53	18° 1	4°31	21°25	4°38	27°59	2°21	1° 1	13°19	n.a.	F 22
S 23	7 54 15	0♒ 9'03	1♓29	18°41	0♓ 7	5° 8	18°13	4°38	21°29	4°39	28° 0	2°12	0°58	13°26	n.a.	S 23
S 24	7 58 11	1° 9'28	16°24	20°22	1°21	5°22	18°25	4°45	21°32	4°41	28° 0	2° 4	0°54	13°32	n.a.	S 24
M25	8 2 8	2° 9'51	0♈55	22° 4	2°34	5°36	18°37	4°51	21°36	4°42	28° 0	1°58	0°51	13°39	n.a.	M25
T 26	8 6 4	3°10'13	14°59	23°46	3°47	5°50	18°49	4°58	21°39	4°43	28° 0	1°54	0°48	13°46	n.a.	T 26
W27	8 10 1	4°10'32	28°34	25°30	5° 1	6° 3	19° 1	5° 4	21°43	4°44	28° 1	1°D52	0°45	13°53	n.a.	W27
T 28	8 13 58	5°10'49	11♉44	27°15	6°14	6°15	19°13	5°11	21°46	4°46	28° 1	1°53	0°42	13°59	n.a.	T 28
F 29	8 17 54	6°11'04	24°31	29° 1	7°27	6°27	19°26	5°17	21°49	4°47	28° 1	1°53	0°39	14° 6	n.a.	F 29
S 30	8 21 51	7°11'17	7♊ 1	0♒48	8°40	6°38	19°38	5°24	21°53	4°48	28° 1	1°R53	0°35	14°13	n.a.	S 30
S 31	8 25 47	8♒11'28	19♊16	2♒35	9♓54	6♎49	19♓50	5♑30	21♑56	4♈50	28♈ 2	1♊52	0♊32	14♌20	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s28	14n51	1s41	22s45	0n10	21s17	1s37	3n 5	2n30	7s29	1s20	23s32	0n 9	22s42	0s33	0s 0	1s55	2s12	14s 1	21n 7	20n49	22n17		n.a.
S 2	23 24	19 16	0 34	23 1	0 2	20 59	1 37	2 57	2 31	7 25	1 20	23 32	0 9	22 42	0 33	0 0	1 55	2 12	14 0	21 8	20 49	22 15		n.a.
S 3	23 20	22 45	0n34	23 17	0s 6	20 41	1 37	2 48	2 32	7 21	1 19	23 32	0 9	22 41	0 33	0n 0	1 55	2 12	14 0	21 8	20 48	22 14		n.a.
M 4	23 15	25 7	1 39	23 32	0 14	20 22	1 36	2 40	2 33	7 17	1 19	23 32	0 9	22 41	0 33	0 1	1 55	2 12	14 0	21 7	20 47	22 12		n.a.
T 5	23 10	26 17	2 39	23 45	0 22	20 2	1 36	2 32	2 34	7 13	1 19	23 32	0 9	22 40	0 33	0 1	1 55	2 11	14 0	21 6	20 47	22 10		n.a.
W 6	23 4	26 11	3 31	23 58	0 29	19 42	1 35	2 24	2 35	7 9	1 19	23 32	0 9	22 40	0 33	0 1	1 54	2 11	13 59	21 5	20 46	22 9		n.a.
T 7	22 58	24 51	4 13	24 10	0 36	19 21	1 35	2 16	2 36	7 4	1 18	23 32	0 9	22 39	0 33	0 1	1 54	2 11	13 59	21 4	20 45	22 7		n.a.
F 8	22 51	22 25	4 44	24 20	0 43	18 59	1 34	2 9	2 37	7 0	1 18	23 32	0 9	22 39	0 33	0 2	1 54	2 11	13 59	21 2	20 45	22 6		n.a.
S 9	22 44	19 3	5 3	24 30	0 50	18 37	1 33	2 1	2 37	6 56	1 18	23 32	0 9	22 38	0 33	0 2	1 54	2 11	13 58	21 1	20 44	22 4		n.a.
S 10	22 37	14 56	5 8	24 38	0 56	18 15	1 32	1 54	2 38	6 52	1 18	23 32	0 8	22 38	0 33	0 2	1 54	2 10	13 58	20 59	20 43	22 2		n.a.
M11	22 29	10 13	5 0	24 45	1 3	17 52	1 31	1 46	2 39	6 47	1 18	23 32	0 8	22 37	0 33	0 3	1 54	2 10	13 58	20 58	20 43	22 1		n.a.
T 12	22 20	5 6	4 39	24 51	1 9	17 29	1 30	1 39	2 40	6 43	1 17	23 32	0 8	22 37	0 33	0 3	1 54	2 10	13 57	20 57	20 42	21 59		n.a.
W13	22 11	0s18	4 5	24 55	1 14	17 5	1 29	1 32	2 41	6 38	1 17	23 31	0 8	22 36	0 33	0 4	1 54	2 9	13 57	20 57	20 41	21 57		n.a.
T 14	22 2	5 48	3 19	24 58	1 20	16 40	1 28	1 25	2 42	6 34	1 17	23 31	0 8	22 35	0 33	0 4	1 54	2 9	13 57	20 56	20 41	21 56		n.a.
F 15	21 53	11 13	2 22	25 0	1 25	16 15	1 27	1 19	2 43	6 29	1 17	23 31	0 8	22 35	0 33	0 4	1 54	2 9	13 56	20 57	20 40	21 54		n.a.
S 16	21 42	16 19	1 16	25 0	1 30	15 50	1 26	1 12	2 44	6 25	1 17	23 31	0 8	22 34	0 33	0 5	1 54	2 9	13 56	20 57	20 39	21 52		n.a.
S 17	21 32	20 46	0 3	24 59	1 35	15 25	1 24	1 6	2 45	6 20	1 16	23 31	0 8	22 34	0 33	0 5	1 54	2 8	13 56	20 57	20 39	21 51		n.a.
M18	21 21	24 11	1s12	24 56	1 39	14 59	1 23	1 0	2 45	6 16	1 16	23 31	0 8	22 33	0 33	0 6	1 54	2 8	13 55	20 57	20 38	21 49		n.a.
T 19	21 10	26 7	2 25	24 52	1 43	14 32	1 21	0 54	2 46	6 11	1 16	23 31	0 8	22 33	0 33	0 6	1 54	2 8	13 55	20 56	20 38	21 47		n.a.
W20	20 58	26 14	3 29	24 46	1 47	14 5	1 20	0 48	2 47	6 6	1 16	23 31	0 8	22 32	0 33	0 7	1 54	2 7	13 55	20 55	20 37	21 45		n.a.
T 21	20 46	24 23	4 20	24 38	1 50	13 38	1 18	0 43	2 48	6 1	1 16	23 30	0 8	22 32	0 33	0 7	1 54	2 7	13 54	20 54	20 36	21 44		n.a.
F 22	20 34	20 46	4 53	24 29	1 53	13 11	1 16	0 37	2 49	5 57	1 15	23 30	0 8	22 31	0 33	0 8	1 54	2 7	13 54	20 52	20 36	21 42		n.a.
S 23	20 21	15 48	5 5	24 18	1 56	12 43	1 14	0 32	2 50	5 52	1 15	23 30	0 8	22 31	0 33	0 8	1 53	2 6	13 54	20 50	20 35	21 40		n.a.
S 24	20 8	9 57	4 55	24 5	1 58	12 15	1 12	0 27	2 51	5 47	1 15	23 30	0 7	22 30	0 33	0 9	1 53	2 6	13 53	20 48	20 34	21 38		n.a.
M25	19 54	3 42	4 27	23 51	2 0	11 46	1 11	0 22	2 52	5 42	1 15	23 30	0 7	22 29	0 33	0 9	1 53	2 5	13 53	20 47	20 34	21 37		n.a.
T 26	19 40	2n32	3 43	23 35	2 1	11 17	1 8	0 18	2 52	5 37	1 15	23 30	0 7	22 29	0 33	0 10	1 53	2 5	13 53	20 46	20 33	21 35		n.a.
W27	19 26	8 28	2 48	23 17	2 3	10 48	1 6	0 13	2 53	5 32	1 15	23 29	0 7	22 28	0 33	0 11	1 53	2 5	13 53	20 46	20 32	21 33		n.a.
T 28	19 11	13 51	1 45	22 57	2 3	10 19	1 4	0 9	2 54	5 27	1 14	23 29	0 7	22 28	0 33	0 11	1 53	2 4	13 52	20 46	20 32	21 31		n.a.
F 29	18 56	18 29	0 39	22 36	2 3	9 50	1 2	0 5	2 55	5 22	1 14	23 29	0 7	22 27	0 33	0 12	1 53	2 4	13 52	20 46	20 31	21 30		n.a.
S 30	18 41	22 10	0n27	22 13	2 3	9 20	1 0	0 1	2 56	5 17	1 14	23 29	0 7	22 27	0 33	0 12	1 53	2 3	13 52	20 46	20 30	21 28		n.a.
S 31	18s25	24n47	1n31	21s47	2s 3	8s50	0s57	0s 2	2n57	5s12	1s14	23s29	0n 7	22s26	0s33	0n13	1s53	2s 3	13s51	20n46	20n30	21n26		n.a.

Julian Day Number = 1684532.5, Delta T = 03h13m42s
Ecliptic obliquity = 23°42'30, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'35, Lahiri = - 5°20'35 Julian Calendar 1 Jan. 101 BCE == Greg. Calendar 29 Dec. 102 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

FEBRUARY 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 29 44	9♒11'36	1♋22	4♒24	11♓ 7	7♎ 0	20♓ 3	5♑37	22♑ 0	4♈51	28♈ 2	1°R48	0♊29	14♌26	n.a.	M 1
T 2	8 33 40	10°11'43	13°21	6°14	12°20	7° 9	20°15	5°43	22° 3	4°53	28° 3	1♊41	0°26	14°33	n.a.	T 2
W 3	8 37 37	11°11'47	25°16	8° 5	13°33	7°18	20°28	5°49	22° 6	4°54	28° 3	1°31	0°23	14°40	n.a.	W 3
T 4	8 41 33	12°11'49	7♌ 9	9°57	14°45	7°27	20°41	5°55	22°10	4°56	28° 3	1°19	0°19	14°46	n.a.	T 4
F 5	8 45 30	13°11'50	19° 1	11°50	15°58	7°35	20°54	6° 2	22°13	4°57	28° 4	1° 6	0°16	14°53	n.a.	F 5
S 6	8 49 27	14°11'48	0♍54	13°44	17°11	7°42	21° 7	6° 8	22°16	4°59	28° 4	0°52	0°13	15° 0	n.a.	S 6
S 7	8 53 23	15°11'44	12°50	15°39	18°24	7°49	21°19	6°14	22°20	5° 0	28° 5	0°39	0°10	15° 7	n.a.	S 7
M 8	8 57 20	16°11'39	24°49	17°35	19°36	7°55	21°32	6°20	22°23	5° 2	28° 5	0°27	0° 7	15°13	n.a.	M 8
T 9	9 1 16	17°11'31	6♎54	19°31	20°49	8° 0	21°45	6°26	22°26	5° 4	28° 6	0°19	0° 4	15°20	n.a.	T 9
W10	9 5 13	18°11'22	19° 8	21°28	22° 1	8° 5	21°59	6°32	22°29	5° 5	28° 6	0°13	0° 0	15°27	n.a.	W10
T 11	9 9 9	19°11'11	1♏35	23°26	23°13	8° 9	22°12	6°38	22°33	5° 7	28° 7	0° 9	29♉57	15°33	n.a.	T 11
F 12	9 13 6	20°10'58	14°18	25°25	24°26	8°12	22°25	6°44	22°36	5° 9	28° 7	0° 8	29°54	15°40	n.a.	F 12
S 13	9 17 2	21°10'43	27°21	27°23	25°38	8°15	22°38	6°49	22°39	5°10	28° 8	0° 8	29°51	15°47	n.a.	S 13
S 14	9 20 59	22°10'27	10♐50	29°22	26°50	8°17	22°52	6°55	22°42	5°12	28° 9	0° 8	29°48	15°54	n.a.	S 14
M15	9 24 55	23°10'09	24°45	1♑20	28° 2	8°18	23° 5	7° 1	22°45	5°14	28° 9	0° 6	29°45	16° 0	n.a.	M15
T 16	9 28 52	24° 9'49	9♑ 9	3°19	29°14	8°R19	23°18	7° 6	22°48	5°16	28°10	0° 2	29°41	16° 7	n.a.	T 16
W17	9 32 49	25° 9'27	23°58	5°16	0♈26	8°18	23°32	7°12	22°51	5°18	28°11	29♉56	29°38	16°14	n.a.	W17
T 18	9 36 45	26° 9'04	9♒ 7	7°13	1°38	8°17	23°45	7°18	22°54	5°19	28°11	29°46	29°35	16°20	n.a.	T 18
F 19	9 40 42	27° 8'38	24°26	9° 8	2°50	8°16	23°59	7°23	22°57	5°21	28°12	29°35	29°32	16°27	n.a.	F 19
S 20	9 44 38	28° 8'10	9♓44	11° 1	4° 1	8°13	24°12	7°28	23° 0	5°23	28°13	29°24	29°29	16°34	n.a.	S 20
S 21	9 48 35	29° 7'39	24°49	12°52	5°13	8°10	24°26	7°34	23° 3	5°25	28°14	29°13	29°25	16°41	n.a.	S 21
M22	9 52 31	0♓ 7'07	9♈32	14°41	6°24	8° 6	24°40	7°39	23° 6	5°27	28°14	29° 5	29°22	16°47	n.a.	M22
T 23	9 56 28	1° 6'32	23°47	16°26	7°36	8° 1	24°54	7°44	23° 9	5°29	28°15	28°59	29°19	16°54	n.a.	T 23
W24	10 0 24	2° 5'55	7♉32	18° 8	8°47	7°55	25° 7	7°49	23°12	5°31	28°16	28°56	29°16	17° 1	n.a.	W24
T 25	10 4 21	3° 5'15	20°48	19°46	9°58	7°49	25°21	7°54	23°15	5°33	28°17	28°55	29°13	17° 8	n.a.	T 25
F 26	10 8 18	4° 4'33	3♊39	21°20	11° 9	7°42	25°35	7°59	23°18	5°35	28°18	28°55	29°10	17°14	n.a.	F 26
S 27	10 12 14	5° 3'49	16° 8	22°49	12°20	7°34	25°49	8° 4	23°21	5°37	28°19	28°54	29° 6	17°21	n.a.	S 27
S 28	10 16 11	6° 3'02	28°21	24°13	13°31	7°25	26° 3	8° 9	23°24	5°39	28°19	28°53	29° 3	17°28	n.a.	S 28
M29	10 20 7	7♓ 2'13	10♋22	25♓32	14♈42	7♎16	26♓17	8♑14	23♑26	5♈41	28♈20	28♉49	29♉ 0	17♌34	n.a.	M29

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	18s 9	26n12	2n30	21s20	2s 1	8s20	0s55	0s 6	2n57	5s 7	1s14	23s28	0n 7	22s26	0s33	0n14	1s53	2s 3	13s51	20n45	20n29	21n24		n.a.
T 2	17 53	26 22	3 21	20 51	2 0	7 49	0 53	0 9	2 58	5 2	1 14	23 28	0 7	22 25	0 33	0 14	1 53	2 2	13 51	20 44	20 28	21 23		n.a.
W 3	17 37	25 18	4 3	20 20	1 58	7 19	0 50	0 12	2 59	4 56	1 13	23 28	0 7	22 25	0 33	0 15	1 53	2 2	13 50	20 42	20 28	21 21		n.a.
T 4	17 20	23 7	4 35	19 48	1 55	6 48	0 47	0 14	3 0	4 51	1 13	23 28	0 7	22 24	0 33	0 15	1 53	2 1	13 50	20 39	20 27	21 19		n.a.
F 5	17 3	19 56	4 54	19 13	1 52	6 17	0 45	0 17	3 1	4 46	1 13	23 28	0 7	22 24	0 33	0 16	1 53	2 1	13 50	20 37	20 26	21 17		n.a.
S 6	16 45	15 57	5 0	18 37	1 48	5 46	0 42	0 19	3 1	4 41	1 13	23 27	0 7	22 23	0 33	0 17	1 53	2 0	13 49	20 34	20 26	21 15		n.a.
S 7	16 28	11 20	4 54	17 58	1 44	5 15	0 39	0 21	3 2	4 36	1 13	23 27	0 6	22 23	0 33	0 17	1 53	2 0	13 49	20 31	20 25	21 13		n.a.
M 8	16 10	6 16	4 34	17 18	1 39	4 43	0 37	0 23	3 3	4 30	1 13	23 27	0 6	22 22	0 33	0 18	1 53	2 0	13 49	20 29	20 24	21 12		n.a.
T 9	15 51	0 56	4 2	16 36	1 33	4 12	0 34	0 24	3 3	4 25	1 13	23 27	0 6	22 21	0 33	0 19	1 53	1 59	13 48	20 27	20 23	21 10		n.a.
W10	15 33	4s31	3 19	15 53	1 27	3 40	0 31	0 26	3 4	4 20	1 13	23 26	0 6	22 21	0 33	0 20	1 53	1 59	13 48	20 25	20 23	21 8		n.a.
T 11	15 14	9 54	2 25	15 7	1 20	3 9	0 28	0 27	3 5	4 14	1 12	23 26	0 6	22 20	0 33	0 20	1 52	1 58	13 48	20 25	20 22	21 6		n.a.
F 12	14 55	14 59	1 23	14 20	1 13	2 37	0 25	0 27	3 5	4 9	1 12	23 26	0 6	22 20	0 33	0 21	1 52	1 58	13 48	20 24	20 21	21 4		n.a.
S 13	14 36	19 33	0 15	13 32	1 5	2 5	0 22	0 28	3 6	4 3	1 12	23 26	0 6	22 19	0 33	0 22	1 52	1 57	13 47	20 24	20 21	21 2		n.a.
S 14	14 17	23 15	0s56	12 42	0 57	1 33	0 19	0 28	3 7	3 58	1 12	23 26	0 6	22 19	0 33	0 22	1 52	1 57	13 47	20 24	20 20	21 1		n.a.
M15	13 57	25 42	2 6	11 51	0 47	1 2	0 15	0 28	3 7	3 52	1 12	23 25	0 6	22 18	0 33	0 23	1 52	1 56	13 47	20 24	20 19	20 59		n.a.
T 16	13 37	26 33	3 10	10 59	0 38	0 30	0 12	0 28	3 8	3 47	1 12	23 25	0 6	22 18	0 33	0 24	1 52	1 56	13 46	20 23	20 19	20 57		n.a.
W17	13 17	25 33	4 4	10 7	0 27	0n 2	0 9	0 27	3 8	3 41	1 12	23 25	0 6	22 17	0 33	0 25	1 52	1 55	13 46	20 22	20 18	20 55		n.a.
T 18	12 57	22 41	4 41	9 13	0 17	0 34	0 6	0 26	3 9	3 36	1 12	23 25	0 6	22 17	0 33	0 25	1 52	1 55	13 46	20 20	20 17	20 53		n.a.
F 19	12 36	18 12	4 59	8 19	0 5	1 6	0 2	0 25	3 9	3 30	1 11	23 24	0 6	22 16	0 33	0 26	1 52	1 54	13 46	20 17	20 17	20 51		n.a.
S 20	12 15	12 33	4 55	7 25	0n 6	1 38	0n 1	0 24	3 9	3 25	1 11	23 24	0 6	22 16	0 33	0 27	1 52	1 54	13 45	20 15	20 16	20 49		n.a.
S 21	11 54	6 13	4 31	6 31	0 18	2 10	0 4	0 22	3 10	3 19	1 11	23 24	0 5	22 15	0 33	0 28	1 52	1 53	13 45	20 13	20 15	20 47		n.a.
M22	11 33	0n19	3 49	5 38	0 31	2 41	0 8	0 20	3 10	3 14	1 11	23 24	0 5	22 15	0 33	0 29	1 52	1 53	13 45	20 11	20 15	20 45		n.a.
T 23	11 12	6 38	2 54	4 45	0 43	3 13	0 11	0 18	3 10	3 8	1 11	23 23	0 5	22 14	0 33	0 29	1 52	1 52	13 44	20 9	20 14	20 43		n.a.
W24	10 51	12 27	1 50	3 53	0 56	3 45	0 15	0 16	3 11	3 3	1 11	23 23	0 5	22 14	0 33	0 30	1 52	1 52	13 44	20 9	20 13	20 42		n.a.
T 25	10 29	17 28	0 43	3 2	1 9	4 16	0 18	0 13	3 11	2 57	1 11	23 23	0 5	22 14	0 33	0 31	1 52	1 51	13 44	20 8	20 12	20 40		n.a.
F 26	10 7	21 32	0n25	2 14	1 22	4 47	0 22	0 10	3 11	2 51	1 11	23 23	0 5	22 13	0 33	0 32	1 52	1 50	13 44	20 8	20 12	20 38		n.a.
S 27	9 46	24 28	1 30	1 27	1 34	5 19	0 25	0 7	3 11	2 46	1 11	23 23	0 5	22 13	0 33	0 33	1 52	1 50	13 43	20 8	20 11	20 36		n.a.
S 28	9 24	26 11	2 29	0 42	1 47	5 50	0 29	0 3	3 11	2 40	1 11	23 22	0 5	22 12	0 33	0 33	1 52	1 49	13 43	20 8	20 10	20 34		n.a.
M29	9s 2	26n37	3n20	0n 1	1n59	6n21	0n32	0n 0	3n11	2s34	1s10	23s22	0n 5	22s12	0s33	0n34	1s52	1s49	13s43	20n 7	20n10	20n32		n.a.

Julian Day Number = 1684563.5, Delta T = 03h13m42s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'31, Lahiri = - 5°20'30 Julian Calendar 1 Feb. 101 BCE == Greg. Calendar 29 Jan. 101 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

MARCH 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 24 4	8♓ 1'21	22♋17	26♓44	15♈53	7°R 6	26♓31	8♑19	23♑29	5♈43	28♈21	28°R42	28♉57	17♌41	n.a.	T 1
W 2	10 28 0	9° 0'27	4♌ 8	27°51	17° 3	6♎55	26°45	8°23	23°32	5°45	28°22	28♉33	28°54	17°48	n.a.	W 2
T 3	10 31 57	9°59'31	15°59	28°51	18°14	6°43	26°59	8°28	23°34	5°47	28°23	28°21	28°51	17°55	n.a.	T 3
F 4	10 35 53	10°58'32	27°52	29°45	19°24	6°31	27°13	8°33	23°37	5°49	28°24	28° 7	28°47	18° 1	n.a.	F 4
S 5	10 39 50	11°57'31	9♍49	0♈33	20°34	6°17	27°27	8°37	23°40	5°51	28°25	27°53	28°44	18° 8	n.a.	S 5
S 6	10 43 47	12°56'29	21°51	1°13	21°44	6° 4	27°41	8°41	23°42	5°53	28°26	27°40	28°41	18°15	n.a.	S 6
M 7	10 47 43	13°55'24	3♎58	1°47	22°54	5°49	27°55	8°46	23°45	5°55	28°27	27°29	28°38	18°21	n.a.	M 7
T 8	10 51 40	14°54'17	16°13	2°14	24° 4	5°34	28° 9	8°50	23°47	5°57	28°28	27°20	28°35	18°28	n.a.	T 8
W 9	10 55 36	15°53'08	28°37	2°34	25°14	5°18	28°23	8°54	23°50	6° 0	28°29	27°14	28°31	18°35	n.a.	W 9
T 10	10 59 33	16°51'57	11♏12	2°47	26°23	5° 2	28°38	8°58	23°52	6° 2	28°30	27°10	28°28	18°42	n.a.	T 10
F 11	11 3 29	17°50'44	24° 0	2°R53	27°33	4°44	28°52	9° 2	23°55	6° 4	28°31	27°D 9	28°25	18°48	n.a.	F 11
S 12	11 7 26	18°49'30	7♐ 5	2°53	28°42	4°27	29° 6	9° 6	23°57	6° 6	28°32	27°10	28°22	18°55	n.a.	S 12
S 13	11 11 22	19°48'13	20°30	2°46	29°52	4° 8	29°20	9°10	23°59	6° 8	28°33	27°R10	28°19	19° 2	n.a.	S 13
M14	11 15 19	20°46'56	4♑17	2°34	1♉ 1	3°50	29°34	9°13	24° 2	6°10	28°34	27° 9	28°16	19° 9	n.a.	M14
T 15	11 19 15	21°45'36	18°28	2°16	2°10	3°30	29°49	9°17	24° 4	6°13	28°36	27° 6	28°12	19°15	n.a.	T 15
W16	11 23 12	22°44'14	3♒ 1	1°52	3°19	3°10	0♈ 3	9°21	24° 6	6°15	28°37	27° 1	28° 9	19°22	n.a.	W16
T 17	11 27 9	23°42'51	17°52	1°24	4°27	2°50	0°17	9°24	24° 8	6°17	28°38	26°54	28° 6	19°29	n.a.	T 17
F 18	11 31 5	24°41'26	2♓55	0°52	5°36	2°29	0°32	9°28	24°10	6°19	28°39	26°45	28° 3	19°35	n.a.	F 18
S 19	11 35 2	25°39'59	18° 0	0°16	6°44	2° 8	0°46	9°31	24°12	6°21	28°40	26°36	28° 0	19°42	n.a.	S 19
S 20	11 38 58	26°38'30	2♈58	29♓37	7°53	1°47	1° 0	9°34	24°14	6°24	28°41	26°27	27°56	19°49	n.a.	S 20
M21	11 42 55	27°36'59	17°39	28°57	9° 1	1°25	1°14	9°37	24°16	6°26	28°42	26°20	27°53	19°56	n.a.	M21
T 22	11 46 51	28°35'26	1♉56	28°15	10° 9	1° 4	1°29	9°40	24°18	6°28	28°44	26°15	27°50	20° 2	n.a.	T 22
W23	11 50 48	29°33'50	15°46	27°33	11°16	0°42	1°43	9°43	24°20	6°30	28°45	26°13	27°47	20° 9	n.a.	W23
T 24	11 54 44	0♈32'13	29° 8	26°51	12°24	0°19	1°57	9°46	24°22	6°33	28°46	26°D12	27°44	20°16	n.a.	T 24
F 25	11 58 41	1°30'33	12♊ 4	26°10	13°32	29♍57	2°12	9°49	24°24	6°35	28°47	26°13	27°41	20°22	n.a.	F 25
S 26	12 2 38	2°28'52	24°37	25°31	14°39	29°35	2°26	9°52	24°26	6°37	28°49	26°14	27°37	20°29	n.a.	S 26
S 27	12 6 34	3°27'08	6♋53	24°55	15°46	29°12	2°40	9°54	24°28	6°39	28°50	26°R14	27°34	20°36	n.a.	S 27
M28	12 10 31	4°25'22	18°56	24°21	16°53	28°50	2°55	9°57	24°29	6°42	28°51	26°13	27°31	20°43	n.a.	M28
T 29	12 14 27	5°23'34	0♌51	23°51	18° 0	28°28	3° 9	9°59	24°31	6°44	28°52	26°10	27°28	20°49	n.a.	T 29
W30	12 18 24	6°21'44	12°42	23°24	19° 6	28° 6	3°23	10° 2	24°33	6°46	28°54	26° 4	27°25	20°56	n.a.	W30
T 31	12 22 20	7♈19'51	24♌35	23♓ 2	20♉13	27♍44	3♈38	10♑ 4	24♑34	6♈48	28♈55	25♉57	27♉22	21♌ 3	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
T 1	8s39	25n50	4n 2	0n41	2n10	6n52	0n36	0n 4	3n11	2s29	1s10	23s22	0n 5	22s11	0s33	0n35	1s52	1s48	13s43	20n 6	20n 9	20n30			n.a.
W 2	8 17	23 52	4 34	1 17	2 21	7 23	0 39	0 9	3 11	2 23	1 10	23 22	0 5	22 11	0 33	0 36	1 52	1 48	13 42	20 4	20 8	20 28			n.a.
T 3	7 54	20 53	4 53	1 51	2 32	7 53	0 43	0 13	3 11	2 17	1 10	23 21	0 5	22 10	0 33	0 37	1 52	1 47	13 42	20 1	20 8	20 26			n.a.
F 4	7 32	17 2	5 0	2 22	2 41	8 24	0 47	0 18	3 10	2 11	1 10	23 21	0 5	22 10	0 33	0 38	1 52	1 47	13 42	19 58	20 7	20 24			n.a.
S 5	7 9	12 30	4 54	2 49	2 50	8 54	0 50	0 23	3 10	2 6	1 10	23 21	0 5	22 9	0 33	0 39	1 52	1 46	13 42	19 55	20 6	20 22			n.a.
S 6	6 46	7 27	4 34	3 13	2 58	9 24	0 54	0 28	3 10	2 0	1 10	23 21	0 4	22 9	0 33	0 39	1 52	1 46	13 41	19 52	20 5	20 20			n.a.
M 7	6 24	2 6	4 2	3 33	3 5	9 54	0 58	0 33	3 9	1 54	1 10	23 21	0 4	22 9	0 33	0 40	1 52	1 45	13 41	19 49	20 5	20 18			n.a.
T 8	6 1	3s24	3 19	3 49	3 11	10 23	1 1	0 39	3 8	1 49	1 10	23 20	0 4	22 8	0 33	0 41	1 52	1 44	13 41	19 47	20 4	20 16			n.a.
W 9	5 38	8 51	2 25	4 1	3 16	10 52	1 5	0 44	3 8	1 43	1 10	23 20	0 4	22 8	0 34	0 42	1 52	1 44	13 41	19 46	20 3	20 14			n.a.
T 10	5 15	14 2	1 24	4 10	3 20	11 21	1 8	0 50	3 7	1 37	1 10	23 20	0 4	22 7	0 34	0 43	1 52	1 43	13 41	19 45	20 3	20 12			n.a.
F 11	4 51	18 43	0 17	4 15	3 22	11 50	1 12	0 56	3 6	1 31	1 10	23 20	0 4	22 7	0 34	0 44	1 52	1 43	13 40	19 45	20 2	20 10			n.a.
S 12	4 28	22 36	0s53	4 15	3 23	12 19	1 16	1 3	3 5	1 25	1 10	23 20	0 4	22 7	0 34	0 45	1 52	1 42	13 40	19 45	20 1	20 8			n.a.
S 13	4 5	25 22	2 1	4 12	3 22	12 47	1 19	1 9	3 4	1 20	1 10	23 19	0 4	22 6	0 34	0 46	1 52	1 42	13 40	19 45	20 0	20 6			n.a.
M14	3 42	26 42	3 4	4 5	3 20	13 15	1 23	1 16	3 3	1 14	1 9	23 19	0 4	22 6	0 34	0 46	1 52	1 41	13 40	19 45	20 0	20 4			n.a.
T 15	3 18	26 20	3 58	3 55	3 17	13 43	1 26	1 22	3 2	1 8	1 9	23 19	0 4	22 6	0 34	0 47	1 52	1 40	13 39	19 44	19 59	20 2			n.a.
W16	2 55	24 12	4 37	3 40	3 11	14 10	1 30	1 29	3 1	1 2	1 9	23 19	0 4	22 5	0 34	0 48	1 52	1 40	13 39	19 43	19 58	20 0			n.a.
T 17	2 31	20 23	5 0	3 23	3 5	14 37	1 34	1 36	3 0	0 57	1 9	23 19	0 4	22 5	0 34	0 49	1 51	1 39	13 39	19 41	19 58	19 58			n.a.
F 18	2 8	15 13	5 2	3 2	2 57	15 4	1 37	1 43	2 58	0 51	1 9	23 18	0 4	22 4	0 34	0 50	1 51	1 39	13 39	19 39	19 57	19 56			n.a.
S 19	1 44	9 7	4 43	2 39	2 47	15 30	1 41	1 50	2 57	0 45	1 9	23 18	0 4	22 4	0 34	0 51	1 51	1 38	13 39	19 37	19 56	19 54			n.a.
S 20	1 21	2 32	4 4	2 14	2 36	15 56	1 44	1 58	2 55	0 39	1 9	23 18	0 3	22 4	0 34	0 52	1 51	1 38	13 39	19 35	19 55	19 52			n.a.
M21	0 57	4n 4	3 11	1 46	2 24	16 21	1 47	2 5	2 54	0 33	1 9	23 18	0 3	22 3	0 34	0 53	1 51	1 37	13 38	19 33	19 55	19 50			n.a.
T 22	0 34	10 19	2 6	1 17	2 11	16 46	1 51	2 12	2 52	0 28	1 9	23 18	0 3	22 3	0 34	0 54	1 51	1 36	13 38	19 32	19 54	19 47			n.a.
W23	0 11	15 51	0 56	0 47	1 56	17 11	1 54	2 19	2 50	0 22	1 9	23 18	0 3	22 3	0 34	0 55	1 51	1 36	13 38	19 31	19 53	19 45			n.a.
T 24	0n13	20 27	0n16	0 17	1 41	17 36	1 58	2 26	2 48	0 16	1 9	23 18	0 3	22 3	0 34	0 55	1 51	1 35	13 38	19 31	19 53	19 43			n.a.
F 25	0 36	23 53	1 24	0s14	1 25	18 0	2 1	2 33	2 46	0 10	1 9	23 17	0 3	22 2	0 34	0 56	1 51	1 35	13 38	19 31	19 52	19 41			n.a.
S 26	1 0	26 2	2 26	0 45	1 9	18 23	2 4	2 41	2 44	0 4	1 9	23 17	0 3	22 2	0 34	0 57	1 51	1 34	13 38	19 32	19 51	19 39			n.a.
S 27	1 23	26 52	3 20	1 14	0 53	18 46	2 7	2 48	2 42	0n 1	1 9	23 17	0 3	22 2	0 34	0 58	1 51	1 34	13 37	19 32	19 50	19 37			n.a.
M28	1 47	26 23	4 5	1 43	0 36	19 9	2 10	2 55	2 40	0 7	1 9	23 17	0 3	22 1	0 34	0 59	1 51	1 33	13 37	19 31	19 50	19 35			n.a.
T 29	2 10	24 42	4 38	2 10	0 19	19 31	2 13	3 1	2 38	0 13	1 9	23 17	0 3	22 1	0 34	1 0	1 51	1 32	13 37	19 31	19 49	19 33			n.a.
W30	2 33	21 57	4 58	2 36	0 3	19 53	2 17	3 8	2 35	0 19	1 9	23 17	0 3	22 1	0 34	1 1	1 51	1 32	13 37	19 29	19 48	19 31			n.a.
T 31	2n56	18n17	5n 7	3s 0	0s13	20n14	2n19	3n15	2n33	0n24	1s 9	23s17	0n 3	22s 1	0s34	1n 2	1s51	1s31	13s37	19n28	19n47	19n29			n.a.

Julian Day Number = 1684592.5, Delta T = 03h13m41s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'27, Lahiri = - 5°20'26 Julian Calendar 1 March 101 BCE == Greg. Calendar 27 Feb. 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

APRIL 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 26 17	8♈17'57	6♍30	22°R45	21♉19	27°R22	3♈52	10♏ 6	24♏36	6♈51	28♈56	25°R49	27♉18	21♌10	n.a.	F 1
S 2	12 30 13	9°16'01	18°32	22♓31	22°25	27♍ 1	4° 6	10° 8	24°37	6°53	28°57	25♉40	27°15	21°16	n.a.	S 2
S 3	12 34 10	10°14'03	0♎42	22°23	23°31	26°40	4°20	10°10	24°39	6°55	28°59	25°32	27°12	21°23	n.a.	S 3
M 4	12 38 7	11°12'03	13° 1	22°D19	24°36	26°19	4°35	10°12	24°40	6°57	29° 0	25°24	27° 9	21°30	n.a.	M 4
T 5	12 42 3	12°10'01	25°30	22°20	25°41	25°59	4°49	10°14	24°41	7° 0	29° 1	25°19	27° 6	21°36	n.a.	T 5
W 6	12 46 0	13° 7'58	8♏10	22°26	26°46	25°39	5° 3	10°16	24°43	7° 2	29° 3	25°16	27° 2	21°43	n.a.	W 6
T 7	12 49 56	14° 5'53	21° 1	22°37	27°51	25°19	5°17	10°17	24°44	7° 4	29° 4	25°D14	26°59	21°50	n.a.	T 7
F 8	12 53 53	15° 3'47	4♐ 5	22°52	28°56	25° 0	5°31	10°19	24°45	7° 6	29° 5	25°14	26°56	21°57	n.a.	F 8
S 9	12 57 49	16° 1'40	17°23	23°12	0♊ 0	24°42	5°46	10°20	24°46	7° 9	29° 6	25°16	26°53	22° 3	n.a.	S 9
S 10	13 1 46	16°59'31	0♑55	23°36	1° 4	24°24	6° 0	10°21	24°47	7°11	29° 8	25°17	26°50	22°10	n.a.	S 10
M11	13 5 42	17°57'21	14°43	24° 5	2° 8	24° 6	6°14	10°23	24°48	7°13	29° 9	25°R18	26°47	22°17	n.a.	M11
T 12	13 9 39	18°55'09	28°47	24°38	3°12	23°50	6°28	10°24	24°49	7°15	29°11	25°17	26°43	22°23	n.a.	T 12
W13	13 13 36	19°52'56	13♒ 6	25°14	4°15	23°34	6°42	10°25	24°50	7°18	29°12	25°16	26°40	22°30	n.a.	W13
T 14	13 17 32	20°50'42	27°38	25°55	5°19	23°18	6°56	10°26	24°51	7°20	29°13	25°12	26°37	22°37	n.a.	T 14
F 15	13 21 29	21°48'27	12♓17	26°39	6°21	23° 3	7°10	10°26	24°52	7°22	29°15	25° 8	26°34	22°44	n.a.	F 15
S 16	13 25 25	22°46'11	26°58	27°26	7°24	22°49	7°24	10°27	24°53	7°24	29°16	25° 3	26°31	22°50	n.a.	S 16
S 17	13 29 22	23°43'53	11♈33	28°18	8°26	22°36	7°38	10°28	24°54	7°26	29°17	24°59	26°28	22°57	n.a.	S 17
M18	13 33 18	24°41'33	25°56	29°12	9°28	22°24	7°52	10°28	24°55	7°29	29°19	24°55	26°24	23° 4	n.a.	M18
T 19	13 37 15	25°39'13	10♉ 2	0♈10	10°30	22°12	8° 6	10°29	24°55	7°31	29°20	24°53	26°21	23°11	n.a.	T 19
W20	13 41 11	26°36'51	23°45	1°11	11°31	22° 1	8°20	10°29	24°56	7°33	29°21	24°D52	26°18	23°17	n.a.	W20
T 21	13 45 8	27°34'28	7♊ 5	2°15	12°32	21°51	8°34	10°29	24°56	7°35	29°23	24°53	26°15	23°24	n.a.	T 21
F 22	13 49 4	28°32'03	20° 3	3°22	13°33	21°41	8°48	10°30	24°57	7°37	29°24	24°54	26°12	23°31	n.a.	F 22
S 23	13 53 1	29°29'36	2♋39	4°32	14°33	21°33	9° 2	10°R30	24°57	7°39	29°25	24°56	26° 8	23°37	n.a.	S 23
S 24	13 56 58	0♉27'08	14°58	5°44	15°33	21°25	9°16	10°29	24°58	7°41	29°27	24°57	26° 5	23°44	n.a.	S 24
M25	14 0 54	1°24'39	27° 4	7° 0	16°33	21°18	9°29	10°29	24°58	7°44	29°28	24°R58	26° 2	23°51	n.a.	M25
T 26	14 4 51	2°22'08	9♌ 1	8°18	17°32	21°12	9°43	10°29	24°59	7°46	29°29	24°58	25°59	23°58	n.a.	T 26
W27	14 8 47	3°19'36	20°54	9°38	18°31	21° 6	9°57	10°29	24°59	7°48	29°31	24°57	25°56	24° 4	n.a.	W27
T 28	14 12 44	4°17'02	2♍48	11° 2	19°29	21° 2	10°10	10°28	24°59	7°50	29°32	24°55	25°53	24°11	n.a.	T 28
F 29	14 16 40	5°14'27	14°46	12°27	20°27	20°58	10°24	10°28	24°59	7°52	29°34	24°52	25°49	24°18	n.a.	F 29
S 30	14 20 37	6♉11'50	26♍53	13♈56	21♊25	20♍56	10♈38	10♏27	24♏59	7♈54	29♈35	24♉49	25♉46	24♌25	n.a.	S 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3n20	13n53	5n 1	3s21	0s29	20n35	2n22	3n21	2n31	0n30	1s 9	23s17	0n 3	22s 0	0s34	1n 3	1s51	1s31	13s37	19n26	19n47	19n26		n.a.
S 2	3 43	8 55	4 43	3 40	0 44	20 55	2 25	3 27	2 28	0 36	1 9	23 17	0 2	22 0	0 34	1 4	1 51	1 30	13 37	19 24	19 46	19 24		n.a.
S 3	4 6	3 33	4 11	3 57	0 59	21 15	2 28	3 34	2 25	0 42	1 9	23 16	0 2	22 0	0 34	1 4	1 51	1 30	13 36	19 22	19 45	19 22		n.a.
M 4	4 29	2s 1	3 28	4 11	1 13	21 34	2 31	3 39	2 23	0 47	1 9	23 16	0 2	22 0	0 34	1 5	1 51	1 29	13 36	19 20	19 45	19 20		n.a.
T 5	4 52	7 35	2 34	4 23	1 26	21 53	2 33	3 45	2 20	0 53	1 9	23 16	0 2	21 59	0 34	1 6	1 51	1 29	13 36	19 18	19 44	19 18		n.a.
W 6	5 15	12 57	1 31	4 32	1 38	22 11	2 36	3 51	2 17	0 59	1 9	23 16	0 2	21 59	0 34	1 7	1 51	1 28	13 36	19 18	19 43	19 16		n.a.
T 7	5 37	17 51	0 23	4 38	1 50	22 29	2 38	3 56	2 15	1 4	1 9	23 16	0 2	21 59	0 34	1 8	1 51	1 27	13 36	19 17	19 42	19 13		n.a.
F 8	6 0	21 59	0s48	4 42	2 1	22 46	2 41	4 1	2 12	1 10	1 9	23 16	0 2	21 59	0 34	1 9	1 51	1 27	13 36	19 17	19 42	19 11		n.a.
S 9	6 22	25 3	1 57	4 43	2 11	23 2	2 43	4 6	2 9	1 16	1 9	23 16	0 2	21 59	0 34	1 10	1 51	1 26	13 36	19 18	19 41	19 9		n.a.
S 10	6 45	26 44	3 2	4 42	2 20	23 18	2 46	4 10	2 6	1 21	1 9	23 16	0 2	21 59	0 35	1 11	1 51	1 26	13 36	19 18	19 40	19 7		n.a.
M11	7 7	26 48	3 57	4 38	2 28	23 34	2 48	4 15	2 3	1 27	1 9	23 16	0 2	21 58	0 35	1 12	1 51	1 25	13 36	19 18	19 39	19 5		n.a.
T 12	7 29	25 10	4 39	4 32	2 36	23 48	2 50	4 19	2 0	1 33	1 9	23 16	0 2	21 58	0 35	1 12	1 52	1 25	13 36	19 18	19 39	19 3		n.a.
W13	7 52	21 55	5 4	4 23	2 42	24 3	2 52	4 22	1 57	1 38	1 9	23 16	0 2	21 58	0 35	1 13	1 52	1 24	13 35	19 18	19 38	19 0		n.a.
T 14	8 14	17 17	5 11	4 13	2 48	24 16	2 54	4 26	1 54	1 44	1 9	23 16	0 2	21 58	0 35	1 14	1 52	1 24	13 35	19 17	19 37	18 58		n.a.
F 15	8 35	11 36	4 57	3 59	2 53	24 29	2 55	4 29	1 51	1 50	1 9	23 16	0 1	21 58	0 35	1 15	1 52	1 23	13 35	19 16	19 36	18 56		n.a.
S 16	8 57	5 15	4 25	3 44	2 57	24 42	2 57	4 32	1 48	1 55	1 9	23 16	0 1	21 58	0 35	1 16	1 52	1 23	13 35	19 15	19 36	18 54		n.a.
S 17	9 19	1n20	3 35	3 27	3 1	24 54	2 59	4 35	1 45	2 1	1 9	23 16	0 1	21 58	0 35	1 17	1 52	1 22	13 35	19 14	19 35	18 52		n.a.
M18	9 40	7 47	2 32	3 7	3 3	25 5	3 0	4 37	1 42	2 6	1 9	23 16	0 1	21 58	0 35	1 18	1 52	1 22	13 35	19 13	19 34	18 49		n.a.
T 19	10 1	13 43	1 20	2 46	3 5	25 16	3 1	4 39	1 39	2 12	1 9	23 16	0 1	21 57	0 35	1 18	1 52	1 21	13 35	19 12	19 33	18 47		n.a.
W20	10 23	18 49	0 6	2 22	3 6	25 26	3 3	4 40	1 36	2 17	1 9	23 16	0 1	21 57	0 35	1 19	1 52	1 21	13 35	19 12	19 33	18 45		n.a.
T 21	10 44	22 50	1n 6	1 57	3 7	25 36	3 4	4 42	1 33	2 23	1 9	23 16	0 1	21 57	0 35	1 20	1 52	1 20	13 35	19 12	19 32	18 43		n.a.
F 22	11 4	25 33	2 14	1 30	3 7	25 44	3 5	4 43	1 30	2 28	1 9	23 16	0 1	21 57	0 35	1 21	1 52	1 20	13 35	19 12	19 31	18 40		n.a.
S 23	11 25	26 53	3 13	1 1	3 6	25 53	3 6	4 43	1 27	2 34	1 9	23 17	0 1	21 57	0 35	1 22	1 52	1 19	13 35	19 13	19 30	18 38		n.a.
S 24	11 46	26 51	4 1	0 30	3 4	26 0	3 7	4 44	1 24	2 39	1 9	23 17	0 1	21 57	0 35	1 23	1 52	1 19	13 35	19 13	19 30	18 36		n.a.
M25	12 6	25 31	4 38	0n 2	3 2	26 7	3 7	4 44	1 21	2 45	1 9	23 17	0 1	21 57	0 35	1 23	1 52	1 18	13 35	19 13	19 29	18 34		n.a.
T 26	12 26	23 3	5 2	0 35	2 59	26 14	3 8	4 44	1 18	2 50	1 9	23 17	0 1	21 57	0 35	1 24	1 52	1 18	13 35	19 13	19 28	18 31		n.a.
W27	12 46	19 38	5 14	1 11	2 55	26 20	3 8	4 43	1 15	2 55	1 9	23 17	0 0	21 57	0 35	1 25	1 52	1 17	13 35	19 13	19 27	18 29		n.a.
T 28	13 5	15 25	5 11	1 47	2 51	26 25	3 8	4 42	1 12	3 1	1 9	23 17	0 0	21 57	0 35	1 26	1 52	1 17	13 35	19 13	19 27	18 27		n.a.
F 29	13 25	10 36	4 56	2 26	2 46	26 29	3 8	4 41	1 10	3 6	1 9	23 17	0 0	21 57	0 35	1 27	1 52	1 16	13 35	19 12	19 26	18 25		n.a.
S 30	13n44	5n20	4n27	3n 5	2s41	26n33	3n 8	4n39	1n 7	3n12	1s 9	23s17	0n 0	21s57	0s35	1n27	1s52	1s16	13s35	19n11	19n25	18n22		n.a.

Julian Day Number = 1684623.5, Delta T = 03h13m40s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'23, Lahiri = - 5°20'22 Julian Calendar 1 Apr. 101 BCE == Greg. Calendar 30 March 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

MAY 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 24 33	7♉ 9'13	9♎10	15♈27	22♊22	20°R53	10♈51	10°R26	25♑ 0	7♈56	29♈36	24°R47	25♉43	24♌31	n.a.	S 1
M 2	14 28 30	8° 6'34	21°40	17° 0	23°18	20♍52	11° 5	10♑26	25°R 0	7°58	29°38	24♉44	25°40	24°38	n.a.	M 2
T 3	14 32 27	9° 3'54	4♏25	18°36	24°14	20°D52	11°18	10°25	25° 0	8° 0	29°39	24°43	25°37	24°45	n.a.	T 3
W 4	14 36 23	10° 1'13	17°24	20°15	25°10	20°52	11°31	10°24	25° 0	8° 2	29°40	24°42	25°33	24°51	n.a.	W 4
T 5	14 40 20	10°58'32	0♐38	21°56	26° 5	20°53	11°45	10°23	24°59	8° 4	29°42	24°D42	25°30	24°58	n.a.	T 5
F 6	14 44 16	11°55'49	14° 5	23°39	27° 0	20°55	11°58	10°21	24°59	8° 6	29°43	24°42	25°27	25° 5	n.a.	F 6
S 7	14 48 13	12°53'06	27°44	25°25	27°54	20°58	12°11	10°20	24°59	8° 8	29°44	24°43	25°24	25°12	n.a.	S 7
S 8	14 52 9	13°50'22	11♑35	27°14	28°47	21° 2	12°24	10°19	24°59	8°10	29°46	24°44	25°21	25°18	n.a.	S 8
M 9	14 56 6	14°47'38	25°35	29° 5	29°40	21° 6	12°37	10°17	24°59	8°12	29°47	24°45	25°18	25°25	n.a.	M 9
T 10	15 0 3	15°44'53	9♒43	0♉58	0♋32	21°11	12°51	10°16	24°58	8°14	29°48	24°R45	25°14	25°32	n.a.	T 10
W11	15 3 59	16°42'08	23°57	2°53	1°24	21°17	13° 4	10°14	24°58	8°15	29°50	24°45	25°11	25°38	n.a.	W11
T 12	15 7 56	17°39'22	8♓14	4°51	2°15	21°23	13°17	10°12	24°57	8°17	29°51	24°45	25° 8	25°45	n.a.	T 12
F 13	15 11 52	18°36'36	22°32	6°51	3° 5	21°30	13°29	10°10	24°57	8°19	29°52	24°44	25° 5	25°52	n.a.	F 13
S 14	15 15 49	19°33'50	6♈46	8°53	3°55	21°38	13°42	10° 8	24°56	8°21	29°53	24°44	25° 2	25°59	n.a.	S 14
S 15	15 19 45	20°31'03	20°54	10°57	4°43	21°47	13°55	10° 6	24°56	8°23	29°55	24°43	24°59	26° 5	n.a.	S 15
M16	15 23 42	21°28'15	4♉51	13° 2	5°32	21°56	14° 8	10° 4	24°55	8°25	29°56	24°43	24°55	26°12	n.a.	M16
T 17	15 27 38	22°25'27	18°34	15° 9	6°19	22° 6	14°21	10° 2	24°55	8°26	29°57	24°D43	24°52	26°19	n.a.	T 17
W18	15 31 35	23°22'39	2♊ 1	17°18	7° 5	22°17	14°33	10° 0	24°54	8°28	29°59	24°43	24°49	26°26	n.a.	W18
T 19	15 35 32	24°19'50	15°10	19°27	7°51	22°28	14°46	9°57	24°53	8°30	29°59	24°R43	24°46	26°32	n.a.	T 19
F 20	15 39 28	25°17'01	28° 1	21°38	8°36	22°40	14°58	9°55	24°52	8°31	0♉ 1	24°43	24°43	26°39	n.a.	F 20
S 21	15 43 25	26°14'11	10♋34	23°49	9°20	22°52	15°11	9°53	24°51	8°33	0° 2	24°43	24°39	26°46	n.a.	S 21
S 22	15 47 21	27°11'21	22°53	26° 0	10° 3	23° 6	15°23	9°50	24°50	8°35	0° 4	24°42	24°36	26°52	n.a.	S 22
M23	15 51 18	28° 8'30	4♌59	28°11	10°45	23°19	15°35	9°47	24°50	8°36	0° 5	24°42	24°33	26°59	n.a.	M23
T 24	15 55 14	29° 5'38	16°57	0♊23	11°26	23°34	15°47	9°44	24°49	8°38	0° 6	24°42	24°30	27° 6	n.a.	T 24
W25	15 59 11	0♊ 2'46	28°51	2°33	12° 6	23°49	15°59	9°42	24°48	8°39	0° 7	24°D42	24°27	27°13	n.a.	W25
T 26	16 3 7	0°59'53	10♍45	4°43	12°45	24° 5	16°11	9°39	24°46	8°41	0° 8	24°42	24°24	27°19	n.a.	T 26
F 27	16 7 4	1°57'00	22°45	6°52	13°22	24°21	16°23	9°36	24°45	8°43	0°10	24°42	24°20	27°26	n.a.	F 27
S 28	16 11 1	2°54'06	4♎53	9° 0	13°59	24°38	16°35	9°33	24°44	8°44	0°11	24°43	24°17	27°33	n.a.	S 28
S 29	16 14 57	3°51'12	17°15	11° 6	14°34	24°55	16°47	9°30	24°43	8°46	0°12	24°44	24°14	27°40	n.a.	S 29
M30	16 18 54	4°48'18	29°53	13°11	15° 8	25°13	16°59	9°26	24°42	8°47	0°13	24°45	24°11	27°46	n.a.	M30
T 31	16 22 50	5♊45'23	12♏50	15♊14	15♋41	25♍31	17♈10	9♑23	24♑40	8♈48	0♉14	24♉45	24♉ 8	27♌53	n.a.	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat
S 1	14n 3	0s14	3n45	3n46	2s35	26n37	3n 8	4n38	1n 4	3n17	1s 9	23s17	0n 0	21s57	0s35	1n28	1s52	1s15	13s35	19n11	19n24	18n20			n.a.
M 2	14 22	5 53	2 52	4 28	2 29	26 40	3 8	4 35	1 1	3 22	1 9	23 18	0s 0	21 57	0 35	1 29	1 52	1 15	13 35	19 10	19 23	18 18			n.a.
T 3	14 41	11 25	1 50	5 11	2 22	26 42	3 7	4 33	0 58	3 27	1 9	23 18	0 0	21 57	0 35	1 30	1 52	1 14	13 35	19 10	19 23	18 15			n.a.
W 4	14 59	16 34	0 40	5 56	2 14	26 43	3 6	4 30	0 55	3 33	1 9	23 18	0 0	21 57	0 35	1 31	1 52	1 14	13 35	19 9	19 22	18 13			n.a.
T 5	15 17	21 3	0s33	6 41	2 6	26 44	3 5	4 27	0 53	3 38	1 10	23 18	0 0	21 57	0 35	1 31	1 52	1 14	13 35	19 9	19 21	18 11			n.a.
F 6	15 35	24 29	1 45	7 28	1 58	26 45	3 4	4 24	0 50	3 43	1 10	23 18	0 0	21 57	0 35	1 32	1 52	1 13	13 35	19 10	19 20	18 8			n.a.
S 7	15 53	26 34	2 53	8 15	1 49	26 45	3 3	4 20	0 47	3 48	1 10	23 19	0 0	21 57	0 35	1 33	1 52	1 13	13 35	19 10	19 20	18 6			n.a.
S 8	16 10	27 2	3 51	9 3	1 40	26 44	3 2	4 17	0 45	3 53	1 10	23 19	0 1	21 57	0 35	1 33	1 52	1 12	13 35	19 10	19 19	18 4			n.a.
M 9	16 27	25 47	4 36	9 52	1 30	26 43	3 0	4 13	0 42	3 58	1 10	23 19	0 1	21 57	0 36	1 34	1 52	1 12	13 35	19 10	19 18	18 1			n.a.
T 10	16 44	22 55	5 6	10 42	1 20	26 41	2 58	4 8	0 39	4 3	1 10	23 19	0 1	21 58	0 36	1 35	1 52	1 11	13 35	19 10	19 17	17 59			n.a.
W11	17 1	18 39	5 16	11 31	1 10	26 39	2 56	4 4	0 37	4 9	1 10	23 19	0 1	21 58	0 36	1 36	1 52	1 11	13 35	19 10	19 17	17 57			n.a.
T 12	17 17	13 19	5 8	12 21	0 59	26 36	2 54	3 59	0 34	4 14	1 10	23 20	0 1	21 58	0 36	1 36	1 52	1 11	13 35	19 10	19 16	17 54			n.a.
F 13	17 33	7 16	4 40	13 12	0 48	26 32	2 52	3 54	0 32	4 19	1 10	23 20	0 1	21 58	0 36	1 37	1 52	1 10	13 35	19 10	19 15	17 52			n.a.
S 14	17 49	0 53	3 55	14 2	0 38	26 28	2 49	3 48	0 29	4 24	1 10	23 20	0 1	21 58	0 36	1 38	1 52	1 10	13 35	19 10	19 14	17 50			n.a.
S 15	18 5	5n31	2 57	14 51	0 27	26 24	2 47	3 42	0 27	4 28	1 10	23 20	0 1	21 58	0 36	1 38	1 52	1 10	13 35	19 10	19 13	17 47			n.a.
M16	18 20	11 35	1 48	15 41	0 16	26 19	2 44	3 37	0 25	4 33	1 10	23 21	0 1	21 58	0 36	1 39	1 53	1 9	13 35	19 10	19 13	17 45			n.a.
T 17	18 35	17 0	0 34	16 29	0 5	26 14	2 40	3 30	0 22	4 38	1 10	23 21	0 1	21 58	0 36	1 40	1 53	1 9	13 35	19 10	19 12	17 43			n.a.
W18	18 50	21 27	0n40	17 17	0n 6	26 8	2 37	3 24	0 20	4 43	1 10	23 21	0 1	21 59	0 36	1 40	1 53	1 8	13 36	19 10	19 11	17 40			n.a.
T 19	19 4	24 43	1 51	18 3	0 17	26 1	2 33	3 17	0 18	4 48	1 10	23 21	0 2	21 59	0 36	1 41	1 53	1 8	13 36	19 10	19 10	17 38			n.a.
F 20	19 18	26 36	2 54	18 49	0 27	25 55	2 29	3 11	0 15	4 53	1 11	23 22	0 2	21 59	0 36	1 42	1 53	1 8	13 36	19 10	19 10	17 35			n.a.
S 21	19 32	27 4	3 48	19 32	0 37	25 47	2 25	3 3	0 13	4 57	1 11	23 22	0 2	21 59	0 36	1 42	1 53	1 7	13 36	19 10	19 9	17 33			n.a.
S 22	19 45	26 10	4 29	20 14	0 47	25 40	2 21	2 56	0 11	5 2	1 11	23 22	0 2	21 59	0 36	1 43	1 53	1 7	13 36	19 10	19 8	17 31			n.a.
M23	19 58	24 3	4 58	20 53	0 56	25 32	2 16	2 49	0 9	5 7	1 11	23 22	0 2	22 0	0 36	1 43	1 53	1 7	13 36	19 9	19 7	17 28			n.a.
T 24	20 11	20 54	5 14	21 30	1 4	25 23	2 11	2 41	0 6	5 12	1 11	23 23	0 2	22 0	0 36	1 44	1 53	1 6	13 36	19 9	19 6	17 26			n.a.
W25	20 23	16 55	5 16	22 5	1 13	25 15	2 6	2 33	0 4	5 16	1 11	23 23	0 2	22 0	0 36	1 45	1 53	1 6	13 36	19 9	19 6	17 23			n.a.
T 26	20 35	12 18	5 4	22 38	1 20	25 6	2 1	2 25	0 2	5 21	1 11	23 23	0 2	22 0	0 36	1 45	1 53	1 6	13 36	19 9	19 5	17 21			n.a.
F 27	20 47	7 11	4 40	23 8	1 27	24 56	1 55	2 16	0 0	5 25	1 11	23 24	0 2	22 0	0 36	1 46	1 53	1 6	13 36	19 9	19 4	17 19			n.a.
S 28	20 58	1 44	4 2	23 35	1 33	24 46	1 49	2 8	0s 2	5 30	1 11	23 24	0 2	22 1	0 36	1 46	1 53	1 5	13 37	19 10	19 3	17 16			n.a.
S 29	21 9	3s53	3 13	23 59	1 39	24 36	1 43	1 59	0 4	5 34	1 11	23 24	0 2	22 1	0 36	1 47	1 53	1 5	13 37	19 10	19 3	17 14			n.a.
M30	21 20	9 29	2 13	24 21	1 43	24 26	1 36	1 50	0 6	5 39	1 12	23 25	0 3	22 1	0 36	1 47	1 53	1 5	13 37	19 10	19 2	17 11			n.a.
T 31	21n30	14s49	1n 6	24n40	1n47	24n15	1n29	1n41	0s 8	5n43	1s12	23s25	0s 3	22s 1	0s36	1n48	1s53	1s 4	13s37	19n10	19n 1	17n 9			n.a.

Julian Day Number = 1684653.5, Delta T = 03h13m39s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'19, Lahiri = - 5°20'18 Julian Calendar 1 May 101 BCE == Greg. Calendar 29 Apr. 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

JUNE 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 26 47	6♊42'28	26♏ 6	17♊16	16♋12	25♍50	17♈22	9°R20	24°R39	8♈50	0♉15	24°R46	24♉ 5	28♌ 0	n.a.	W 1
T 2	16 30 43	7°39'34	9♐42	19°16	16°42	26° 9	17°34	9♑16	24♑38	8°51	0°17	24♉45	24° 1	28° 6	n.a.	T 2
F 3	16 34 40	8°36'39	23°35	21°14	17°10	26°29	17°45	9°13	24°36	8°53	0°18	24°44	23°58	28°13	n.a.	F 3
S 4	16 38 36	9°33'45	7♑42	23°10	17°37	26°49	17°56	9° 9	24°35	8°54	0°19	24°43	23°55	28°20	n.a.	S 4
S 5	16 42 33	10°30'50	21°58	25° 4	18° 2	27°10	18° 7	9° 6	24°33	8°55	0°20	24°41	23°52	28°27	n.a.	S 5
M 6	16 46 30	11°27'56	6♒20	26°56	18°25	27°32	18°19	9° 2	24°32	8°56	0°21	24°39	23°49	28°33	n.a.	M 6
T 7	16 50 26	12°25'03	20°43	28°46	18°47	27°53	18°30	8°58	24°30	8°58	0°22	24°37	23°45	28°40	n.a.	T 7
W 8	16 54 23	13°22'09	5♓ 2	0♋34	19° 7	28°16	18°41	8°55	24°29	8°59	0°23	24°36	23°42	28°47	n.a.	W 8
T 9	16 58 19	14°19'17	19°15	2°21	19°25	28°38	18°51	8°51	24°27	9° 0	0°24	24°D36	23°39	28°54	n.a.	T 9
F 10	17 2 16	15°16'24	3♈19	4° 5	19°42	29° 1	19° 2	8°47	24°26	9° 1	0°25	24°37	23°36	29° 0	n.a.	F 10
S 11	17 6 12	16°13'33	17°13	5°47	19°56	29°25	19°13	8°43	24°24	9° 2	0°26	24°38	23°33	29° 7	n.a.	S 11
S 12	17 10 9	17°10'42	0♉55	7°27	20° 8	29°49	19°23	8°39	24°22	9° 3	0°27	24°39	23°30	29°14	n.a.	S 12
M13	17 14 6	18° 7'51	14°26	9° 5	20°19	0♎13	19°34	8°35	24°20	9° 4	0°28	24°40	23°26	29°20	n.a.	M13
T 14	17 18 2	19° 5'02	27°44	10°42	20°27	0°38	19°44	8°31	24°19	9° 6	0°29	24°R41	23°23	29°27	n.a.	T 14
W15	17 21 59	20° 2'12	10♊49	12°16	20°33	1° 3	19°54	8°27	24°17	9° 7	0°30	24°40	23°20	29°34	n.a.	W15
T 16	17 25 55	20°59'24	23°40	13°48	20°37	1°28	20° 5	8°23	24°15	9° 8	0°31	24°38	23°17	29°41	n.a.	T 16
F 17	17 29 52	21°56'35	6♋19	15°18	20°R39	1°54	20°15	8°19	24°13	9° 8	0°32	24°34	23°14	29°47	n.a.	F 17
S 18	17 33 48	22°53'48	18°44	16°47	20°38	2°20	20°24	8°15	24°11	9° 9	0°33	24°30	23°11	29°54	n.a.	S 18
S 19	17 37 45	23°51'00	0♌58	18°13	20°35	2°47	20°34	8°10	24° 9	9°10	0°34	24°25	23° 7	0♍ 1	n.a.	S 19
M20	17 41 41	24°48'13	13° 1	19°37	20°30	3°14	20°44	8° 6	24° 7	9°11	0°34	24°20	23° 4	0° 7	n.a.	M20
T 21	17 45 38	25°45'27	24°58	20°59	20°22	3°42	20°54	8° 2	24° 5	9°12	0°35	24°16	23° 1	0°14	n.a.	T 21
W22	17 49 35	26°42'40	6♍51	22°18	20°12	4° 9	21° 3	7°58	24° 3	9°13	0°36	24°13	22°58	0°21	n.a.	W22
T 23	17 53 31	27°39'55	18°44	23°36	19°59	4°37	21°12	7°53	24° 1	9°14	0°37	24°11	22°55	0°28	n.a.	T 23
F 24	17 57 28	28°37'09	0♎41	24°51	19°44	5° 6	21°22	7°49	23°59	9°14	0°38	24°D11	22°51	0°34	n.a.	F 24
S 25	18 1 24	29°34'24	12°48	26° 4	19°27	5°34	21°31	7°44	23°57	9°15	0°39	24°11	22°48	0°41	n.a.	S 25
S 26	18 5 21	0♋31'40	25°10	27°15	19° 8	6° 4	21°40	7°40	23°55	9°16	0°39	24°13	22°45	0°48	n.a.	S 26
M27	18 9 17	1°28'56	7♏50	28°23	18°46	6°33	21°48	7°36	23°53	9°16	0°40	24°14	22°42	0°55	n.a.	M27
T 28	18 13 14	2°26'13	20°52	29°29	18°22	7° 3	21°57	7°31	23°50	9°17	0°41	24°R15	22°39	1° 1	n.a.	T 28
W29	18 17 10	3°23'31	4♐19	0♌31	17°56	7°33	22° 6	7°27	23°48	9°17	0°42	24°15	22°36	1° 8	n.a.	W29
T 30	18 21 7	4♋20'49	18♐10	1♌32	17♋28	8♎ 3	22♈14	7♑22	23♑46	9♈18	0♉42	24♉13	22♉32	1♍15	n.a.	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸		⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	21n40	19s37	0s 7	24n56	1n51	24n 4	1n22	1n32	0s10	5n47	1s12	23s25	0s 3	22s 2	0s36	1n48	1s53	1s 4	13s37	19n10	19n 0	17n 6			n.a.
T 2	21 50	23 30	1 22	25 9	1 53	23 53	1 15	1 22	0 12	5 52	1 12	23 26	0 3	22 2	0 36	1 49	1 53	1 4	13 37	19 10	18 59	17 4			n.a.
F 3	21 59	26 5	2 33	25 20	1 55	23 42	1 7	1 13	0 13	5 56	1 12	23 26	0 3	22 2	0 36	1 49	1 53	1 4	13 37	19 10	18 59	17 2			n.a.
S 4	22 8	27 4	3 35	25 28	1 57	23 30	0 59	1 3	0 15	6 0	1 12	23 26	0 3	22 3	0 36	1 50	1 53	1 3	13 37	19 10	18 58	16 59			n.a.
S 5	22 17	26 15	4 25	25 34	1 57	23 19	0 50	0 53	0 17	6 4	1 12	23 27	0 3	22 3	0 36	1 50	1 54	1 3	13 38	19 9	18 57	16 57			n.a.
M 6	22 25	23 43	4 59	25 37	1 57	23 7	0 42	0 42	0 19	6 9	1 12	23 27	0 3	22 3	0 36	1 51	1 54	1 3	13 38	19 9	18 56	16 54			n.a.
T 7	22 32	19 42	5 14	25 39	1 56	22 55	0 32	0 32	0 20	6 13	1 12	23 27	0 3	22 3	0 36	1 51	1 54	1 3	13 38	19 8	18 55	16 52			n.a.
W 8	22 40	14 34	5 10	25 38	1 55	22 42	0 23	0 22	0 22	6 17	1 13	23 28	0 3	22 4	0 36	1 52	1 54	1 3	13 38	19 8	18 55	16 49			n.a.
T 9	22 47	8 41	4 46	25 34	1 53	22 30	0 13	0 11	0 24	6 21	1 13	23 28	0 3	22 4	0 36	1 52	1 54	1 2	13 38	19 8	18 54	16 47			n.a.
F 10	22 53	2 25	4 6	25 29	1 51	22 18	0 3	0 0	0 26	6 25	1 13	23 28	0 4	22 4	0 37	1 52	1 54	1 2	13 38	19 8	18 53	16 44			n.a.
S 11	22 59	3n53	3 12	25 22	1 47	22 5	0s 7	0s11	0 27	6 29	1 13	23 29	0 4	22 5	0 37	1 53	1 54	1 2	13 39	19 8	18 52	16 42			n.a.
S 12	23 5	9 57	2 7	25 13	1 44	21 53	0 18	0 22	0 29	6 33	1 13	23 29	0 4	22 5	0 37	1 53	1 54	1 2	13 39	19 9	18 51	16 39			n.a.
M13	23 10	15 27	0 56	25 3	1 39	21 40	0 29	0 33	0 30	6 37	1 13	23 29	0 4	22 5	0 37	1 54	1 54	1 2	13 39	19 9	18 51	16 37			n.a.
T 14	23 15	20 9	0n17	24 51	1 35	21 28	0 41	0 44	0 32	6 40	1 13	23 30	0 4	22 6	0 37	1 54	1 54	1 2	13 39	19 9	18 50	16 34			n.a.
W15	23 20	23 46	1 27	24 37	1 29	21 15	0 52	0 56	0 33	6 44	1 13	23 30	0 4	22 6	0 37	1 54	1 54	1 1	13 39	19 9	18 49	16 32			n.a.
T 16	23 24	26 5	2 32	24 22	1 24	21 3	1 4	1 8	0 35	6 48	1 14	23 31	0 4	22 6	0 37	1 55	1 54	1 1	13 39	19 8	18 48	16 29			n.a.
F 17	23 28	27 2	3 28	24 6	1 17	20 50	1 17	1 19	0 36	6 52	1 14	23 31	0 4	22 7	0 37	1 55	1 54	1 1	13 40	19 8	18 47	16 27			n.a.
S 18	23 31	26 34	4 14	23 48	1 10	20 38	1 30	1 31	0 38	6 55	1 14	23 31	0 4	22 7	0 37	1 55	1 54	1 1	13 40	19 6	18 47	16 24			n.a.
S 19	23 34	24 49	4 46	23 30	1 3	20 25	1 43	1 43	0 39	6 59	1 14	23 32	0 4	22 8	0 37	1 55	1 54	1 1	13 40	19 5	18 46	16 22			n.a.
M20	23 36	21 58	5 6	23 10	0 56	20 13	1 56	1 55	0 41	7 2	1 14	23 32	0 4	22 8	0 37	1 56	1 54	1 1	13 40	19 4	18 45	16 19			n.a.
T 21	23 38	18 14	5 12	22 50	0 48	20 1	2 9	2 8	0 42	7 6	1 14	23 32	0 5	22 8	0 37	1 56	1 55	1 1	13 40	19 3	18 44	16 17			n.a.
W22	23 40	13 48	5 4	22 29	0 39	19 49	2 23	2 20	0 44	7 9	1 14	23 33	0 5	22 9	0 37	1 56	1 55	1 1	13 41	19 2	18 43	16 14			n.a.
T 23	23 41	8 51	4 44	22 7	0 30	19 37	2 37	2 33	0 45	7 13	1 15	23 33	0 5	22 9	0 37	1 57	1 55	1 0	13 41	19 2	18 42	16 12			n.a.
F 24	23 42	3 33	4 11	21 45	0 21	19 25	2 51	2 45	0 46	7 16	1 15	23 33	0 5	22 9	0 37	1 57	1 55	1 0	13 41	19 2	18 42	16 9			n.a.
S 25	23 42	1s57	3 26	21 22	0 11	19 14	3 5	2 58	0 48	7 19	1 15	23 34	0 5	22 10	0 37	1 57	1 55	1 0	13 41	19 2	18 41	16 6			n.a.
S 26	23 42	7 30	2 32	20 58	0 2	19 3	3 19	3 11	0 49	7 23	1 15	23 34	0 5	22 10	0 37	1 57	1 55	1 0	13 41	19 2	18 40	16 4			n.a.
M27	23 42	12 53	1 28	20 34	0s 9	18 52	3 33	3 24	0 50	7 26	1 15	23 34	0 5	22 11	0 37	1 57	1 55	1 0	13 42	19 3	18 39	16 1			n.a.
T 28	23 41	17 53	0 18	20 11	0 19	18 41	3 47	3 37	0 51	7 29	1 15	23 35	0 5	22 11	0 37	1 58	1 55	1 0	13 42	19 3	18 38	15 59			n.a.
W29	23 40	22 8	0s54	19 46	0 30	18 30	4 1	3 50	0 53	7 32	1 16	23 35	0 5	22 11	0 37	1 58	1 55	1 0	13 42	19 3	18 38	15 56			n.a.
T 30	23n38	25s16	2s 6	19n22	0s41	18n20	4s15	4s 3	0s54	7n35	1s16	23s35	0s 5	22s12	0s37	1n58	1s55	1s 0	13s42	19n 2	18n37	15n54			n.a.

Julian Day Number = 1684684.5, Delta T = 03h13m38s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'14, Lahiri = - 5°20'14 Julian Calendar 1 June 101 BCE == Greg. Calendar 30 May 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

JULY 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 25 4	5♋18'08	2♑24	2♌29	16°R59	8♎33	22♈23	7°R18	23°R44	9♈18	0♉43	24°R 9	22♉29	1♍21	n.a.	F 1
S 2	18 29 0	6°15'29	16°57	3°23	16♋27	9° 4	22°31	7♑13	23♑42	9°19	0°44	24♉ 4	22°26	1°28	n.a.	S 2
S 3	18 32 57	7°12'50	1♒41	4°14	15°55	9°35	22°39	7° 9	23°39	9°19	0°44	23°57	22°23	1°35	n.a.	S 3
M 4	18 36 53	8°10'12	16°29	5° 2	15°20	10° 7	22°47	7° 4	23°37	9°20	0°45	23°51	22°20	1°42	n.a.	M 4
T 5	18 40 50	9° 7'36	1♓13	5°47	14°45	10°38	22°55	7° 0	23°35	9°20	0°46	23°45	22°17	1°48	n.a.	T 5
W 6	18 44 46	10° 5'01	15°47	6°28	14° 9	11°10	23° 2	6°56	23°33	9°21	0°46	23°41	22°13	1°55	n.a.	W 6
T 7	18 48 43	11° 2'27	0♈ 6	7° 5	13°33	11°42	23°10	6°51	23°30	9°21	0°47	23°39	22°10	2° 2	n.a.	T 7
F 8	18 52 40	11°59'54	14° 7	7°38	12°56	12°15	23°17	6°47	23°28	9°21	0°47	23°D38	22° 7	2° 9	n.a.	F 8
S 9	18 56 36	12°57'24	27°50	8° 7	12°18	12°48	23°24	6°42	23°26	9°21	0°48	23°39	22° 4	2°15	n.a.	S 9
S 10	19 0 33	13°54'54	11♉16	8°32	11°41	13°21	23°31	6°38	23°23	9°22	0°48	23°40	22° 1	2°22	n.a.	S 10
M11	19 4 29	14°52'27	24°26	8°52	11° 5	13°54	23°38	6°33	23°21	9°22	0°49	23°R41	21°57	2°29	n.a.	M11
T 12	19 8 26	15°50'00	7♊23	9° 7	10°28	14°27	23°45	6°29	23°18	9°22	0°49	23°40	21°54	2°35	n.a.	T 12
W13	19 12 22	16°47'36	20° 7	9°17	9°53	15° 1	23°52	6°25	23°16	9°22	0°50	23°37	21°51	2°42	n.a.	W13
T 14	19 16 19	17°45'12	2♋41	9°R23	9°19	15°35	23°58	6°20	23°14	9°22	0°50	23°31	21°48	2°49	n.a.	T 14
F 15	19 20 15	18°42'50	15° 4	9°23	8°45	16° 9	24° 4	6°16	23°11	9°22	0°51	23°23	21°45	2°56	n.a.	F 15
S 16	19 24 12	19°40'30	27°19	9°17	8°13	16°43	24°11	6°12	23° 9	9°R22	0°51	23°14	21°42	3° 2	n.a.	S 16
S 17	19 28 9	20°38'11	9♌25	9° 6	7°43	17°18	24°17	6° 7	23° 7	9°22	0°51	23° 3	21°38	3° 9	n.a.	S 17
M18	19 32 5	21°35'53	21°24	8°49	7°15	17°53	24°22	6° 3	23° 4	9°22	0°52	22°52	21°35	3°16	n.a.	M18
T 19	19 36 2	22°33'36	3♍17	8°27	6°48	18°28	24°28	5°59	23° 2	9°22	0°52	22°42	21°32	3°22	n.a.	T 19
W20	19 39 58	23°31'21	15° 8	7°59	6°23	19° 3	24°34	5°55	22°59	9°22	0°52	22°34	21°29	3°29	n.a.	W20
T 21	19 43 55	24°29'07	26°59	7°25	6° 0	19°39	24°39	5°51	22°57	9°22	0°53	22°28	21°26	3°36	n.a.	T 21
F 22	19 47 51	25°26'54	8♎54	6°47	5°40	20°14	24°44	5°47	22°55	9°22	0°53	22°24	21°23	3°43	n.a.	F 22
S 23	19 51 48	26°24'42	20°59	6° 4	5°22	20°50	24°49	5°43	22°52	9°21	0°53	22°23	21°19	3°49	n.a.	S 23
S 24	19 55 44	27°22'32	3♏16	5°18	5° 6	21°27	24°54	5°39	22°50	9°21	0°53	22°D23	21°16	3°56	n.a.	S 24
M25	19 59 41	28°20'23	15°53	4°27	4°52	22° 3	24°58	5°35	22°47	9°21	0°54	22°R23	21°13	4° 3	n.a.	M25
T 26	20 3 38	29°18'16	28°53	3°35	4°41	22°39	25° 3	5°31	22°45	9°21	0°54	22°23	21°10	4°10	n.a.	T 26
W27	20 7 34	0♌16'10	12♐21	2°40	4°32	23°16	25° 7	5°27	22°43	9°20	0°54	22°22	21° 7	4°16	n.a.	W27
T 28	20 11 31	1°14'06	26°17	1°46	4°25	23°53	25°11	5°23	22°40	9°20	0°54	22°18	21° 3	4°23	n.a.	T 28
F 29	20 15 27	2°12'03	10♑41	0°51	4°21	24°30	25°15	5°19	22°38	9°19	0°54	22°12	21° 0	4°30	n.a.	F 29
S 30	20 19 24	3°10'01	25°29	29♋59	4°D20	25° 7	25°19	5°16	22°36	9°19	0°54	22° 3	20°57	4°36	n.a.	S 30
S 31	20 23 20	4♌ 8'01	10♒34	29♋10	4♋20	25♎45	25♈23	5♑12	22♑33	9♈19	0♉54	21♉53	20♉54	4♍43	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23n36	26s53	3s12	18n58	0s53	18n10	4s29	4s16	0s55	7n38	1s16	23s36	0s 6	22s12	0s37	1n58	1s55	1s 0	13s43	19n 1	18n36	15n51		n.a.
S 2	23 34	26 41	4 6	18 35	1 4	18 0	4 43	4 30	0 56	7 41	1 16	23 36	0 6	22 13	0 37	1 58	1 55	1 0	13 43	19 0	18 35	15 48		n.a.
S 3	23 31	24 38	4 45	18 11	1 16	17 51	4 56	4 43	0 57	7 44	1 16	23 36	0 6	22 13	0 37	1 58	1 55	1 0	13 43	18 58	18 34	15 46		n.a.
M 4	23 27	20 55	5 6	17 48	1 28	17 42	5 9	4 57	0 59	7 47	1 16	23 37	0 6	22 13	0 37	1 58	1 55	1 0	13 43	18 57	18 33	15 43		n.a.
T 5	23 23	15 54	5 6	17 25	1 40	17 34	5 21	5 10	1 0	7 49	1 17	23 37	0 6	22 14	0 37	1 58	1 55	1 0	13 44	18 55	18 33	15 41		n.a.
W 6	23 19	10 3	4 46	17 3	1 52	17 26	5 33	5 24	1 1	7 52	1 17	23 37	0 6	22 14	0 37	1 59	1 56	1 0	13 44	18 54	18 32	15 38		n.a.
T 7	23 15	3 45	4 8	16 42	2 5	17 18	5 45	5 38	1 2	7 55	1 17	23 38	0 6	22 15	0 37	1 59	1 56	1 0	13 44	18 54	18 31	15 35		n.a.
F 8	23 10	2n37	3 17	16 22	2 17	17 11	5 55	5 51	1 3	7 57	1 17	23 38	0 6	22 15	0 37	1 59	1 56	1 0	13 44	18 54	18 30	15 33		n.a.
S 9	23 4	8 44	2 15	16 2	2 30	17 4	6 6	6 5	1 4	8 0	1 17	23 38	0 6	22 16	0 37	1 59	1 56	1 0	13 44	18 54	18 29	15 30		n.a.
S 10	22 58	14 20	1 6	15 44	2 42	16 58	6 15	6 19	1 5	8 2	1 17	23 39	0 6	22 16	0 37	1 59	1 56	1 0	13 45	18 54	18 29	15 28		n.a.
M11	22 52	19 9	0n 4	15 27	2 54	16 52	6 24	6 33	1 6	8 5	1 18	23 39	0 6	22 16	0 37	1 59	1 56	1 0	13 45	18 54	18 28	15 25		n.a.
T 12	22 45	22 59	1 13	15 11	3 6	16 47	6 32	6 47	1 7	8 7	1 18	23 39	0 7	22 17	0 37	1 59	1 56	1 0	13 45	18 54	18 27	15 22		n.a.
W13	22 38	25 37	2 17	14 57	3 18	16 42	6 39	7 1	1 8	8 9	1 18	23 40	0 7	22 17	0 37	1 59	1 56	1 0	13 45	18 53	18 26	15 20		n.a.
T 14	22 31	26 54	3 13	14 45	3 29	16 38	6 46	7 15	1 9	8 11	1 18	23 40	0 7	22 18	0 37	1 59	1 56	1 1	13 46	18 52	18 25	15 17		n.a.
F 15	22 23	26 48	3 59	14 35	3 40	16 34	6 52	7 30	1 10	8 14	1 18	23 40	0 7	22 18	0 37	1 59	1 56	1 1	13 46	18 50	18 24	15 14		n.a.
S 16	22 15	25 24	4 34	14 26	3 50	16 31	6 57	7 44	1 11	8 16	1 19	23 41	0 7	22 18	0 37	1 59	1 56	1 1	13 46	18 47	18 24	15 12		n.a.
S 17	22 6	22 50	4 55	14 20	4 0	16 28	7 1	7 58	1 12	8 18	1 19	23 41	0 7	22 19	0 37	1 58	1 56	1 1	13 46	18 45	18 23	15 9		n.a.
M18	21 57	19 19	5 4	14 16	4 8	16 26	7 5	8 12	1 13	8 20	1 19	23 41	0 7	22 19	0 37	1 58	1 56	1 1	13 47	18 42	18 22	15 6		n.a.
T 19	21 48	15 2	4 59	14 14	4 16	16 25	7 7	8 27	1 13	8 22	1 19	23 41	0 7	22 20	0 37	1 58	1 56	1 1	13 47	18 39	18 21	15 4		n.a.
W20	21 38	10 14	4 41	14 15	4 23	16 24	7 10	8 41	1 14	8 24	1 19	23 42	0 7	22 20	0 37	1 58	1 56	1 1	13 47	18 37	18 20	15 1		n.a.
T 21	21 28	5 2	4 11	14 18	4 28	16 24	7 11	8 56	1 15	8 25	1 20	23 42	0 7	22 21	0 37	1 58	1 57	1 1	13 47	18 36	18 19	14 58		n.a.
F 22	21 17	0s22	3 30	14 24	4 32	16 24	7 12	9 10	1 16	8 27	1 20	23 42	0 7	22 21	0 37	1 58	1 57	1 2	13 48	18 35	18 19	14 56		n.a.
S 23	21 6	5 49	2 39	14 32	4 35	16 25	7 12	9 24	1 17	8 29	1 20	23 43	0 7	22 21	0 37	1 58	1 57	1 2	13 48	18 34	18 18	14 53		n.a.
S 24	20 55	11 11	1 40	14 42	4 35	16 26	7 11	9 39	1 18	8 30	1 20	23 43	0 8	22 22	0 37	1 58	1 57	1 2	13 48	18 34	18 17	14 50		n.a.
M25	20 44	16 14	0 35	14 55	4 34	16 27	7 10	9 53	1 18	8 32	1 20	23 43	0 8	22 22	0 37	1 57	1 57	1 2	13 48	18 34	18 16	14 48		n.a.
T 26	20 32	20 42	0s35	15 11	4 31	16 30	7 8	10 8	1 19	8 33	1 21	23 43	0 8	22 23	0 37	1 57	1 57	1 2	13 49	18 34	18 15	14 45		n.a.
W27	20 19	24 15	1 44	15 28	4 26	16 32	7 6	10 22	1 20	8 35	1 21	23 44	0 8	22 23	0 37	1 57	1 57	1 2	13 49	18 34	18 14	14 42		n.a.
T 28	20 7	26 29	2 50	15 47	4 19	16 35	7 3	10 37	1 21	8 36	1 21	23 44	0 8	22 23	0 37	1 57	1 57	1 3	13 49	18 33	18 13	14 40		n.a.
F 29	19 53	27 2	3 47	16 7	4 11	16 38	7 0	10 51	1 21	8 37	1 21	23 44	0 8	22 24	0 37	1 57	1 57	1 3	13 50	18 31	18 13	14 37		n.a.
S 30	19 40	25 42	4 30	16 28	4 0	16 42	6 56	11 6	1 22	8 38	1 21	23 44	0 8	22 24	0 37	1 56	1 57	1 3	13 50	18 29	18 12	14 34		n.a.
S 31	19n26	22s31	4s56	16n51	3s48	16n46	6s52	11s20	1s23	8n40	1s22	23s44	0s 8	22s25	0s37	1n56	1s57	1s 3	13s50	18n27	18n11	14n32		n.a.

Julian Day Number = 1684714.5, Delta T = 03h13m37s
Ecliptic obliquity = 23°42'31, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'10, Lahiri = - 5°20'10 Julian Calendar 1 July 101 BCE == Greg. Calendar 29 June 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

AUGUST 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 27 17	5♌ 6'03	25♒44	28°R24	4♋23	26♎22	25♈26	5°R 9	22°R31	9°R18	0♉54	21°R43	20♉51	4♍50	n.a.	M 1
T 2	20 31 13	6° 4'07	10♓51	27♋44	4°29	27° 0	25°29	5♏ 5	22♏29	9♈18	0°55	21♉33	20°48	4°57	n.a.	T 2
W 3	20 35 10	7° 2'13	25°43	27° 9	4°36	27°38	25°32	5° 2	22°26	9°17	0°R55	21°26	20°44	5° 3	n.a.	W 3
T 4	20 39 7	8° 0'21	10♈15	26°42	4°46	28°16	25°35	4°58	22°24	9°16	0°55	21°21	20°41	5°10	n.a.	T 4
F 5	20 43 3	8°58'30	24°23	26°22	4°58	28°54	25°38	4°55	22°22	9°16	0°55	21°19	20°38	5°17	n.a.	F 5
S 6	20 47 0	9°56'43	8♉ 7	26°10	5°11	29°33	25°40	4°52	22°20	9°15	0°54	21°D18	20°35	5°23	n.a.	S 6
S 7	20 50 56	10°54'57	21°27	26°D 7	5°27	0♏11	25°42	4°48	22°17	9°14	0°54	21°R18	20°32	5°30	n.a.	S 7
M 8	20 54 53	11°53'13	4♊27	26°12	5°45	0°50	25°44	4°45	22°15	9°14	0°54	21°18	20°29	5°37	n.a.	M 8
T 9	20 58 49	12°51'32	17°11	26°27	6° 5	1°29	25°46	4°42	22°13	9°13	0°54	21°16	20°25	5°44	n.a.	T 9
W10	21 2 46	13°49'53	29°41	26°50	6°26	2° 8	25°48	4°39	22°11	9°12	0°54	21°11	20°22	5°50	n.a.	W10
T 11	21 6 42	14°48'16	12♋ 0	27°22	6°50	2°47	25°49	4°36	22° 9	9°11	0°54	21° 3	20°19	5°57	n.a.	T 11
F 12	21 10 39	15°46'41	24°10	28° 2	7°15	3°27	25°51	4°34	22° 6	9°11	0°54	20°53	20°16	6° 4	n.a.	F 12
S 13	21 14 36	16°45'08	6♌14	28°51	7°41	4° 6	25°52	4°31	22° 4	9°10	0°54	20°40	20°13	6°10	n.a.	S 13
S 14	21 18 32	17°43'37	18°13	29°47	8°10	4°46	25°53	4°28	22° 2	9° 9	0°53	20°26	20° 9	6°17	n.a.	S 14
M15	21 22 29	18°42'08	0♍ 7	0♌50	8°40	5°26	25°53	4°26	22° 0	9° 8	0°53	20°12	20° 6	6°24	n.a.	M15
T 16	21 26 25	19°40'41	11°58	2° 1	9°11	6° 6	25°54	4°23	21°58	9° 7	0°53	19°58	20° 3	6°31	n.a.	T 16
W17	21 30 22	20°39'16	23°49	3°17	9°43	6°46	25°54	4°21	21°56	9° 6	0°53	19°47	20° 0	6°37	n.a.	W17
T 18	21 34 18	21°37'53	5♎40	4°40	10°18	7°26	25°R54	4°18	21°54	9° 5	0°52	19°38	19°57	6°44	n.a.	T 18
F 19	21 38 15	22°36'31	17°35	6° 7	10°53	8° 7	25°54	4°16	21°52	9° 4	0°52	19°32	19°54	6°51	n.a.	F 19
S 20	21 42 11	23°35'11	29°39	7°39	11°30	8°47	25°54	4°14	21°50	9° 3	0°52	19°29	19°50	6°58	n.a.	S 20
S 21	21 46 8	24°33'54	11♏54	9°14	12° 7	9°28	25°53	4°12	21°48	9° 2	0°51	19°28	19°47	7° 4	n.a.	S 21
M22	21 50 4	25°32'38	24°27	10°53	12°46	10° 9	25°52	4°10	21°46	9° 1	0°51	19°28	19°44	7°11	n.a.	M22
T 23	21 54 1	26°31'24	7♐22	12°34	13°27	10°49	25°52	4° 8	21°45	9° 0	0°51	19°28	19°41	7°18	n.a.	T 23
W24	21 57 58	27°30'12	20°43	14°18	14° 8	11°31	25°50	4° 6	21°43	8°58	0°50	19°26	19°38	7°24	n.a.	W24
T 25	22 1 54	28°29'01	4♑34	16° 4	14°50	12°12	25°49	4° 5	21°41	8°57	0°50	19°22	19°35	7°31	n.a.	T 25
F 26	22 5 51	29°27'53	18°54	17°51	15°34	12°53	25°48	4° 3	21°39	8°56	0°49	19°16	19°31	7°38	n.a.	F 26
S 27	22 9 47	0♍26'46	3♒42	19°39	16°18	13°34	25°46	4° 2	21°38	8°55	0°49	19° 7	19°28	7°45	n.a.	S 27
S 28	22 13 44	1°25'41	18°51	21°27	17° 3	14°16	25°44	4° 0	21°36	8°54	0°48	18°57	19°25	7°51	n.a.	S 28
M29	22 17 40	2°24'39	4♓11	23°16	17°50	14°58	25°42	3°59	21°34	8°52	0°48	18°46	19°22	7°58	n.a.	M29
T 30	22 21 37	3°23'38	19°30	25° 6	18°37	15°39	25°39	3°58	21°33	8°51	0°47	18°36	19°19	8° 5	n.a.	T 30
W31	22 25 33	4♍22'40	4♈38	26♌55	19♋25	16♏21	25♈37	3♏57	21♏31	8♈50	0♉47	18♉28	19♉15	8♍11	n.a.	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	19n12	17s47	5s 1	17n13	3s34	16n50	6s48	11s35	1s23	8n41	1s22	23s45	0s 8	22s25	0s37	1n56	1s57	1s 3	13s50	18n24	18n10	14n29		n.a.
T 2	18 58	11 58	4 45	17 36	3 19	16 55	6 43	11 49	1 24	8 42	1 22	23 45	0 8	22 25	0 37	1 56	1 57	1 4	13 51	18 21	18 9	14 26		n.a.
W 3	18 43	5 32	4 10	17 59	3 3	17 0	6 38	12 4	1 25	8 43	1 22	23 45	0 8	22 26	0 37	1 55	1 57	1 4	13 51	18 19	18 8	14 23		n.a.
T 4	18 28	1n 4	3 19	18 21	2 45	17 5	6 33	12 18	1 25	8 43	1 22	23 45	0 8	22 26	0 37	1 55	1 57	1 4	13 51	18 18	18 8	14 21		n.a.
F 5	18 13	7 26	2 17	18 42	2 28	17 10	6 27	12 33	1 26	8 44	1 23	23 46	0 9	22 26	0 37	1 55	1 58	1 4	13 51	18 18	18 7	14 18		n.a.
S 6	17 57	13 17	1 9	19 2	2 9	17 15	6 21	12 47	1 27	8 45	1 23	23 46	0 9	22 27	0 37	1 54	1 58	1 5	13 52	18 17	18 6	14 15		n.a.
S 7	17 41	18 20	0n 1	19 21	1 51	17 21	6 15	13 1	1 27	8 45	1 23	23 46	0 9	22 27	0 37	1 54	1 58	1 5	13 52	18 17	18 5	14 12		n.a.
M 8	17 25	22 24	1 9	19 38	1 32	17 26	6 9	13 16	1 28	8 46	1 23	23 46	0 9	22 28	0 37	1 54	1 58	1 5	13 52	18 17	18 4	14 10		n.a.
T 9	17 9	25 16	2 12	19 53	1 14	17 32	6 3	13 30	1 28	8 47	1 23	23 46	0 9	22 28	0 37	1 53	1 58	1 5	13 52	18 17	18 3	14 7		n.a.
W10	16 52	26 50	3 8	20 7	0 56	17 37	5 56	13 44	1 29	8 47	1 24	23 47	0 9	22 28	0 37	1 53	1 58	1 6	13 53	18 15	18 2	14 4		n.a.
T 11	16 35	27 2	3 53	20 17	0 39	17 43	5 49	13 58	1 29	8 47	1 24	23 47	0 9	22 29	0 37	1 53	1 58	1 6	13 53	18 13	18 2	14 2		n.a.
F 12	16 17	25 55	4 28	20 26	0 22	17 48	5 43	14 13	1 30	8 48	1 24	23 47	0 9	22 29	0 37	1 52	1 58	1 6	13 53	18 11	18 1	13 59		n.a.
S 13	15 59	23 36	4 50	20 31	0 6	17 54	5 36	14 27	1 30	8 48	1 24	23 47	0 9	22 29	0 37	1 52	1 58	1 7	13 53	18 7	18 0	13 56		n.a.
S 14	15 42	20 16	4 59	20 34	0n 9	17 59	5 29	14 41	1 31	8 48	1 24	23 47	0 9	22 30	0 37	1 52	1 58	1 7	13 54	18 3	17 59	13 53		n.a.
M15	15 23	16 9	4 55	20 34	0 23	18 5	5 22	14 55	1 31	8 48	1 25	23 47	0 9	22 30	0 37	1 51	1 58	1 7	13 54	18 0	17 58	13 50		n.a.
T 16	15 5	11 25	4 38	20 31	0 36	18 10	5 14	15 9	1 32	8 48	1 25	23 48	0 9	22 30	0 37	1 51	1 58	1 8	13 54	17 56	17 57	13 48		n.a.
W17	14 46	6 17	4 9	20 25	0 48	18 15	5 7	15 23	1 32	8 48	1 25	23 48	0 10	22 31	0 37	1 50	1 58	1 8	13 54	17 53	17 56	13 45		n.a.
T 18	14 27	0 55	3 29	20 16	0 59	18 19	5 0	15 36	1 33	8 48	1 25	23 48	0 10	22 31	0 37	1 50	1 58	1 8	13 55	17 50	17 56	13 42		n.a.
F 19	14 8	4s31	2 40	20 4	1 9	18 24	4 52	15 50	1 33	8 48	1 25	23 48	0 10	22 31	0 37	1 49	1 58	1 9	13 55	17 49	17 55	13 39		n.a.
S 20	13 49	9 52	1 43	19 49	1 18	18 28	4 45	16 4	1 34	8 47	1 26	23 48	0 10	22 32	0 37	1 49	1 58	1 9	13 55	17 48	17 54	13 37		n.a.
S 21	13 29	14 57	0 40	19 31	1 25	18 33	4 38	16 17	1 34	8 47	1 26	23 48	0 10	22 32	0 37	1 48	1 58	1 9	13 55	17 48	17 53	13 34		n.a.
M22	13 9	19 31	0s26	19 10	1 32	18 36	4 30	16 31	1 34	8 46	1 26	23 48	0 10	22 32	0 37	1 48	1 58	1 10	13 56	17 48	17 52	13 31		n.a.
T 23	12 49	23 19	1 33	18 47	1 37	18 40	4 23	16 44	1 35	8 46	1 26	23 49	0 10	22 32	0 37	1 47	1 59	1 10	13 56	17 48	17 51	13 28		n.a.
W24	12 29	26 0	2 37	18 21	1 42	18 43	4 15	16 58	1 35	8 45	1 26	23 49	0 10	22 33	0 37	1 47	1 59	1 10	13 56	17 47	17 50	13 25		n.a.
T 25	12 8	27 12	3 34	17 53	1 46	18 46	4 8	17 11	1 35	8 45	1 27	23 49	0 10	22 33	0 37	1 46	1 59	1 11	13 56	17 46	17 49	13 23		n.a.
F 26	11 47	26 39	4 20	17 22	1 48	18 49	4 0	17 24	1 36	8 44	1 27	23 49	0 10	22 33	0 37	1 46	1 59	1 11	13 56	17 44	17 49	13 20		n.a.
S 27	11 26	24 14	4 50	16 50	1 50	18 51	3 53	17 37	1 36	8 43	1 27	23 49	0 10	22 33	0 37	1 45	1 59	1 11	13 57	17 42	17 48	13 17		n.a.
S 28	11 5	20 6	5 1	16 16	1 51	18 53	3 45	17 50	1 36	8 42	1 27	23 49	0 10	22 34	0 37	1 45	1 59	1 12	13 57	17 39	17 47	13 14		n.a.
M29	10 44	14 35	4 50	15 40	1 52	18 54	3 38	18 3	1 37	8 41	1 27	23 49	0 10	22 34	0 37	1 44	1 59	1 12	13 57	17 36	17 46	13 11		n.a.
T 30	10 22	8 9	4 19	15 3	1 51	18 56	3 30	18 15	1 37	8 40	1 27	23 49	0 10	22 34	0 37	1 44	1 59	1 12	13 57	17 33	17 45	13 8		n.a.
W31	10n 1	1s20	3s29	14n24	1n50	18n56	3s23	18s28	1s37	8n39	1s28	23s49	0s11	22s34	0s37	1n43	1s59	1s13	13s58	17n31	17n44	13n 6		n.a.

Julian Day Number = 1684745.5, Delta T = 03h13m36s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'06, Lahiri = - 5°20'06 Julian Calendar 1 Aug. 101 BCE == Greg. Calendar 30 July 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

SEPTEMBER 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 29 30	5♍21'43	19♈25	28♌44	20♋14	17♏ 3	25°R34	3°R56	21°R30	8°R48	0°R46	18°R23	19♉12	8♍18	n.a.	T 1
F 2	22 33 27	6°20'50	3♉45	0♍33	21° 3	17°45	25♈31	3♏55	21♏28	8♈47	0♉46	18♉20	19° 9	8°25	n.a.	F 2
S 3	22 37 23	7°19'58	17°37	2°22	21°54	18°27	25°28	3°54	21°27	8°46	0°45	18°D19	19° 6	8°32	n.a.	S 3
S 4	22 41 20	8°19'10	1♊ 2	4°10	22°45	19°10	25°25	3°53	21°25	8°44	0°44	18°20	19° 3	8°38	n.a.	S 4
M 5	22 45 16	9°18'23	14° 2	5°57	23°37	19°52	25°21	3°52	21°24	8°43	0°44	18°R20	19° 0	8°45	n.a.	M 5
T 6	22 49 13	10°17'40	26°42	7°44	24°30	20°35	25°18	3°52	21°22	8°41	0°43	18°18	18°56	8°52	n.a.	T 6
W 7	22 53 9	11°16'58	9♋ 5	9°30	25°23	21°17	25°14	3°52	21°21	8°40	0°42	18°15	18°53	8°58	n.a.	W 7
T 8	22 57 6	12°16'19	21°16	11°15	26°17	22° 0	25°10	3°51	21°20	8°39	0°42	18° 9	18°50	9° 5	n.a.	T 8
F 9	23 1 2	13°15'42	3♌18	13° 0	27°11	22°43	25° 6	3°51	21°19	8°37	0°41	18° 0	18°47	9°12	n.a.	F 9
S 10	23 4 59	14°15'08	15°15	14°44	28° 7	23°26	25° 1	3°51	21°18	8°36	0°40	17°49	18°44	9°19	n.a.	S 10
S 11	23 8 56	15°14'36	27° 8	16°27	29° 2	24° 9	24°57	3°D51	21°16	8°34	0°40	17°37	18°40	9°25	n.a.	S 11
M12	23 12 52	16°14'06	9♍ 0	18°10	29°59	24°52	24°52	3°51	21°15	8°33	0°39	17°25	18°37	9°32	n.a.	M12
T 13	23 16 49	17°13'38	20°52	19°52	0♌55	25°35	24°47	3°51	21°14	8°31	0°38	17°13	18°34	9°39	n.a.	T 13
W14	23 20 45	18°13'12	2♎45	21°33	1°53	26°18	24°42	3°51	21°13	8°29	0°37	17° 3	18°31	9°45	n.a.	W14
T 15	23 24 42	19°12'48	14°41	23°13	2°51	27° 2	24°37	3°52	21°12	8°28	0°36	16°56	18°28	9°52	n.a.	T 15
F 16	23 28 38	20°12'27	26°41	24°53	3°49	27°45	24°31	3°52	21°12	8°26	0°36	16°51	18°25	9°59	n.a.	F 16
S 17	23 32 35	21°12'07	8♏50	26°32	4°48	28°29	24°25	3°53	21°11	8°25	0°35	16°49	18°21	10° 6	n.a.	S 17
S 18	23 36 31	22°11'49	21°10	28°10	5°47	29°12	24°20	3°53	21°10	8°23	0°34	16°D49	18°18	10°12	n.a.	S 18
M19	23 40 28	23°11'33	3♐44	29°47	6°47	29°56	24°14	3°54	21° 9	8°21	0°33	16°50	18°15	10°19	n.a.	M19
T 20	23 44 24	24°11'19	16°36	1♎24	7°47	0♐40	24° 8	3°55	21° 9	8°20	0°32	16°51	18°12	10°26	n.a.	T 20
W21	23 48 21	25°11'07	29°52	3° 1	8°48	1°24	24° 1	3°56	21° 8	8°18	0°31	16°R51	18° 9	10°32	n.a.	W21
T 22	23 52 18	26°10'57	13♏33	4°37	9°49	2° 8	23°55	3°57	21° 7	8°17	0°30	16°49	18° 6	10°39	n.a.	T 22
F 23	23 56 14	27°10'48	27°41	6°12	10°50	2°52	23°49	3°58	21° 7	8°15	0°30	16°46	18° 2	10°46	n.a.	F 23
S 24	0 0 11	28°10'41	12♒15	7°46	11°52	3°36	23°42	4° 0	21° 6	8°13	0°29	16°40	17°59	10°53	n.a.	S 24
S 25	0 4 7	29°10'36	27°11	9°20	12°55	4°20	23°35	4° 1	21° 6	8°12	0°28	16°34	17°56	10°59	n.a.	S 25
M26	0 8 4	0♎10'33	12♓22	10°54	13°57	5° 5	23°28	4° 3	21° 5	8°10	0°27	16°26	17°53	11° 6	n.a.	M26
T 27	0 12 0	1°10'31	27°37	12°27	15° 0	5°49	23°21	4° 4	21° 5	8° 8	0°26	16°20	17°50	11°13	n.a.	T 27
W28	0 15 57	2°10'32	12♈46	13°59	16° 3	6°33	23°14	4° 6	21° 5	8° 7	0°25	16°14	17°46	11°19	n.a.	W28
T 29	0 19 53	3°10'34	27°38	15°31	17° 7	7°18	23° 7	4° 8	21° 4	8° 5	0°24	16°11	17°43	11°26	n.a.	T 29
F 30	0 23 50	4♎10'39	12♉ 8	17♎ 3	18♌11	8♐ 2	23♈ 0	4♏ 9	21♏ 4	8♈ 3	0♉23	16°D 9	17♉40	11♍33	n.a.	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	9n39	5n25	2s27	13n44	1n49	18n57	3s16	18s40	1s38	8n38	1s28	23s50	0s11	22s35	0s37	1n43	1s59	1s13	13s58	17n30	17n43	13n 3		n.a.
F 2	9 17	11 43	1 16	13 4	1 47	18 56	3 8	18 53	1 38	8 37	1 28	23 50	0 11	22 35	0 37	1 42	1 59	1 14	13 58	17 29	17 42	13 0		n.a.
S 3	8 55	17 13	0 4	12 22	1 44	18 56	3 1	19 5	1 38	8 36	1 28	23 50	0 11	22 35	0 37	1 41	1 59	1 14	13 58	17 29	17 42	12 57		n.a.
S 4	8 33	21 41	1n 7	11 40	1 41	18 55	2 54	19 17	1 38	8 34	1 28	23 50	0 11	22 35	0 37	1 41	1 59	1 14	13 58	17 29	17 41	12 54		n.a.
M 5	8 10	24 56	2 12	10 56	1 38	18 53	2 47	19 29	1 38	8 33	1 28	23 50	0 11	22 36	0 37	1 40	1 59	1 15	13 59	17 29	17 40	12 51		n.a.
T 6	7 48	26 49	3 9	10 13	1 34	18 51	2 39	19 41	1 39	8 31	1 29	23 50	0 11	22 36	0 37	1 40	1 59	1 15	13 59	17 28	17 39	12 49		n.a.
W 7	7 25	27 18	3 55	9 28	1 29	18 48	2 32	19 52	1 39	8 30	1 29	23 50	0 11	22 36	0 37	1 39	1 59	1 16	13 59	17 27	17 38	12 46		n.a.
T 8	7 2	26 27	4 30	8 44	1 25	18 45	2 25	20 4	1 39	8 28	1 29	23 50	0 11	22 36	0 37	1 39	1 59	1 16	13 59	17 26	17 37	12 43		n.a.
F 9	6 39	24 23	4 53	7 59	1 20	18 42	2 18	20 15	1 39	8 26	1 29	23 50	0 11	22 36	0 37	1 38	1 59	1 17	13 59	17 23	17 36	12 40		n.a.
S 10	6 16	21 15	5 2	7 14	1 15	18 38	2 11	20 26	1 39	8 25	1 29	23 50	0 11	22 36	0 37	1 37	1 59	1 17	14 0	17 20	17 35	12 37		n.a.
S 11	5 53	17 16	4 58	6 28	1 10	18 33	2 4	20 38	1 39	8 23	1 29	23 50	0 11	22 37	0 37	1 37	1 59	1 17	14 0	17 17	17 35	12 34		n.a.
M12	5 29	12 37	4 42	5 43	1 4	18 28	1 57	20 48	1 40	8 21	1 29	23 50	0 11	22 37	0 37	1 36	1 59	1 18	14 0	17 13	17 34	12 31		n.a.
T 13	5 6	7 32	4 13	4 57	0 58	18 23	1 51	20 59	1 40	8 19	1 30	23 51	0 11	22 37	0 37	1 35	1 59	1 18	14 0	17 10	17 33	12 29		n.a.
W14	4 43	2 9	3 33	4 11	0 52	18 17	1 44	21 10	1 40	8 17	1 30	23 51	0 11	22 37	0 37	1 35	1 59	1 19	14 0	17 7	17 32	12 26		n.a.
T 15	4 19	3s21	2 43	3 26	0 46	18 10	1 37	21 20	1 40	8 15	1 30	23 51	0 12	22 37	0 37	1 34	1 59	1 19	14 0	17 5	17 31	12 23		n.a.
F 16	3 55	8 46	1 46	2 40	0 40	18 3	1 31	21 30	1 40	8 13	1 30	23 51	0 12	22 37	0 37	1 33	1 59	1 19	14 1	17 4	17 30	12 20		n.a.
S 17	3 32	13 56	0 43	1 55	0 34	17 55	1 24	21 40	1 40	8 11	1 30	23 51	0 12	22 37	0 37	1 33	1 59	1 20	14 1	17 3	17 29	12 17		n.a.
S 18	3 8	18 38	0s23	1 9	0 27	17 47	1 18	21 50	1 40	8 8	1 30	23 51	0 12	22 37	0 37	1 32	1 59	1 20	14 1	17 3	17 28	12 14		n.a.
M19	2 44	22 36	1 30	0 24	0 21	17 38	1 12	22 0	1 40	8 6	1 30	23 51	0 12	22 38	0 37	1 31	1 59	1 21	14 1	17 3	17 27	12 11		n.a.
T 20	2 20	25 34	2 33	0s21	0 14	17 29	1 5	22 9	1 40	8 4	1 30	23 51	0 12	22 38	0 37	1 31	1 59	1 21	14 1	17 3	17 27	12 8		n.a.
W21	1 56	27 13	3 30	1 6	0 8	17 19	0 59	22 18	1 40	8 1	1 30	23 51	0 12	22 38	0 36	1 30	1 59	1 22	14 1	17 3	17 26	12 5		n.a.
T 22	1 32	27 17	4 17	1 50	0 1	17 8	0 53	22 27	1 40	7 59	1 30	23 51	0 12	22 38	0 36	1 29	2 0	1 22	14 2	17 3	17 25	12 3		n.a.
F 23	1 8	25 36	4 51	2 35	0s 6	16 57	0 47	22 36	1 40	7 57	1 31	23 51	0 12	22 38	0 36	1 29	2 0	1 23	14 2	17 2	17 24	12 0		n.a.
S 24	0 44	22 13	5 7	3 19	0 13	16 46	0 41	22 45	1 40	7 54	1 31	23 51	0 12	22 38	0 36	1 28	2 0	1 23	14 2	17 0	17 23	11 57		n.a.
S 25	0 20	17 18	5 2	4 2	0 19	16 34	0 35	22 53	1 40	7 51	1 31	23 51	0 12	22 38	0 36	1 27	2 0	1 23	14 2	16 59	17 22	11 54		n.a.
M26	0s 4	11 15	4 37	4 46	0 26	16 21	0 30	23 2	1 40	7 49	1 31	23 51	0 12	22 38	0 36	1 27	2 0	1 24	14 2	16 56	17 21	11 51		n.a.
T 27	0 28	4 30	3 52	5 28	0 33	16 8	0 24	23 10	1 40	7 46	1 31	23 51	0 12	22 38	0 36	1 26	2 0	1 24	14 2	16 54	17 20	11 48		n.a.
W28	0 52	2n29	2 51	6 11	0 40	15 55	0 18	23 17	1 40	7 44	1 31	23 51	0 12	22 38	0 36	1 25	2 0	1 25	14 2	16 53	17 19	11 45		n.a.
T 29	1 17	9 13	1 39	6 53	0 46	15 41	0 13	23 25	1 40	7 41	1 31	23 51	0 12	22 38	0 36	1 25	2 0	1 25	14 2	16 52	17 18	11 42		n.a.
F 30	1s41	15n18	0s22	7s35	0s53	15n26	0s 8	23s32	1s40	7n38	1s31	23s51	0s13	22s38	0s36	1n24	2s 0	1s26	14s 3	16n51	17n18	11n39		n.a.

Julian Day Number = 1684776.5, Delta T = 03h13m35s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°27'02, Lahiri = - 5°20'01 Julian Calendar 1 Sept. 101 BCE == Greg. Calendar 30 Aug. 101 BCE

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

OCTOBER 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 27 47	5♎10'46	26♉10	18♎34	19♌15	8♐47	22°R52	4♑11	21°R 4	8°R 2	0°R22	16♉10	17♉37	11♍40	n.a.	S 1
S 2	0 31 43	6°10'55	9♊44	20° 4	20°20	9°32	22♈45	4°14	21♑ 4	8♈ 0	0♉21	16°11	17°34	11°46	n.a.	S 2
M 3	0 35 40	7°11'06	22°51	21°34	21°25	10°16	22°37	4°16	21° 4	7°58	0°20	16°12	17°31	11°53	n.a.	M 3
T 4	0 39 36	8°11'20	5♋35	23° 3	22°30	11° 1	22°30	4°18	21°D 4	7°56	0°19	16°R13	17°27	12° 0	n.a.	T 4
W 5	0 43 33	9°11'36	17°59	24°32	23°36	11°46	22°22	4°20	21° 4	7°55	0°18	16°13	17°24	12° 6	n.a.	W 5
T 6	0 47 29	10°11'54	0♌ 9	26° 1	24°41	12°31	22°14	4°23	21° 4	7°53	0°17	16°11	17°21	12°13	n.a.	T 6
F 7	0 51 26	11°12'13	12° 9	27°29	25°47	13°16	22° 6	4°25	21° 4	7°51	0°16	16° 7	17°18	12°20	n.a.	F 7
S 8	0 55 22	12°12'35	24° 2	28°56	26°54	14° 1	21°58	4°28	21° 4	7°50	0°15	16° 2	17°15	12°26	n.a.	S 8
S 9	0 59 19	13°12'59	5♍53	0♏23	28° 0	14°46	21°50	4°31	21° 5	7°48	0°13	15°56	17°12	12°33	n.a.	S 9
M10	1 3 16	14°13'25	17°44	1°49	29° 7	15°31	21°42	4°34	21° 5	7°46	0°12	15°50	17° 8	12°40	n.a.	M10
T 11	1 7 12	15°13'53	29°38	3°15	0♍14	16°16	21°34	4°37	21° 5	7°45	0°11	15°44	17° 5	12°47	n.a.	T 11
W12	1 11 9	16°14'22	11♎37	4°39	1°21	17° 2	21°26	4°40	21° 6	7°43	0°10	15°39	17° 2	12°53	n.a.	W12
T 13	1 15 5	17°14'53	23°42	6° 4	2°29	17°47	21°18	4°43	21° 6	7°41	0° 9	15°36	16°59	13° 0	n.a.	T 13
F 14	1 19 2	18°15'26	5♏55	7°27	3°37	18°32	21°10	4°46	21° 7	7°40	0° 8	15°34	16°56	13° 7	n.a.	F 14
S 15	1 22 58	19°16'01	18°16	8°49	4°45	19°18	21° 2	4°49	21° 7	7°38	0° 7	15°D34	16°52	13°13	n.a.	S 15
S 16	1 26 55	20°16'37	0♐49	10°11	5°53	20° 3	20°53	4°53	21° 8	7°36	0° 6	15°35	16°49	13°20	n.a.	S 16
M17	1 30 51	21°17'15	13°34	11°31	7° 1	20°49	20°45	4°56	21° 9	7°35	0° 5	15°36	16°46	13°27	n.a.	M17
T 18	1 34 48	22°17'54	26°35	12°50	8°10	21°34	20°37	5° 0	21° 9	7°33	0° 4	15°38	16°43	13°34	n.a.	T 18
W19	1 38 45	23°18'34	9♑53	14° 8	9°18	22°20	20°29	5° 3	21°10	7°31	0° 2	15°39	16°40	13°40	n.a.	W19
T 20	1 42 41	24°19'15	23°29	15°24	10°27	23° 6	20°21	5° 7	21°11	7°30	0° 1	15°R40	16°37	13°47	n.a.	T 20
F 21	1 46 38	25°19'58	7♒26	16°38	11°36	23°51	20°13	5°11	21°12	7°28	0° 0	15°39	16°33	13°54	n.a.	F 21
S 22	1 50 34	26°20'42	21°43	17°50	12°46	24°37	20° 4	5°15	21°13	7°27	29♈59	15°38	16°30	14° 0	n.a.	S 22
S 23	1 54 31	27°21'27	6♓17	19° 0	13°55	25°23	19°56	5°19	21°14	7°25	29°58	15°36	16°27	14° 7	n.a.	S 23
M24	1 58 27	28°22'13	21° 4	20° 7	15° 5	26° 8	19°48	5°23	21°15	7°24	29°57	15°33	16°24	14°14	n.a.	M24
T 25	2 2 24	29°23'00	5♈57	21°12	16°14	26°54	19°40	5°27	21°16	7°22	29°56	15°31	16°21	14°21	n.a.	T 25
W26	2 6 20	0♏23'49	20°49	22°13	17°24	27°40	19°32	5°31	21°17	7°20	29°54	15°29	16°17	14°27	n.a.	W26
T 27	2 10 17	1°24'39	5♉31	23°10	18°34	28°26	19°25	5°35	21°18	7°19	29°53	15°29	16°14	14°34	n.a.	T 27
F 28	2 14 14	2°25'30	19°57	24° 3	19°45	29°12	19°17	5°40	21°19	7°17	29°52	15°D28	16°11	14°41	n.a.	F 28
S 29	2 18 10	3°26'22	4♊ 1	24°50	20°55	29°58	19° 9	5°44	21°21	7°16	29°51	15°29	16° 8	14°47	n.a.	S 29
S 30	2 22 7	4°27'16	17°40	25°33	22° 6	0♑44	19° 2	5°49	21°22	7°15	29°50	15°30	16° 5	14°54	n.a.	S 30
M31	2 26 3	5♏28'12	0♋54	26♏ 8	23♍16	1♑30	18♈54	5♑53	21♑23	7♈13	29♈49	15♉31	16♉ 2	15♍ 1	n.a.	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	2s 5	20n23	0n54	8s16	0s59	15n11	0s 2	23s39	1s40	7n35	1s31	23s51	0s13	22s38	0s36	1n23	2s 0	1s26	14s 3	16n52	17n17	11n36		n.a.
S 2	2 29	24 13	2 4	8 57	1 6	14 55	0n 3	23 46	1 40	7 32	1 31	23 51	0 13	22 38	0 36	1 23	2 0	1 26	14 3	16 52	17 16	11 33		n.a.
M 3	2 53	26 37	3 6	9 37	1 12	14 39	0 8	23 53	1 40	7 30	1 31	23 51	0 13	22 38	0 36	1 22	2 0	1 27	14 3	16 52	17 15	11 30		n.a.
T 4	3 17	27 32	3 56	10 16	1 18	14 22	0 13	23 59	1 40	7 27	1 31	23 51	0 13	22 38	0 36	1 21	2 0	1 27	14 3	16 53	17 14	11 27		n.a.
W 5	3 41	27 1	4 34	10 55	1 24	14 5	0 18	24 6	1 39	7 24	1 31	23 51	0 13	22 38	0 36	1 21	2 0	1 28	14 3	16 52	17 13	11 24		n.a.
T 6	4 5	25 13	4 59	11 34	1 31	13 48	0 23	24 12	1 39	7 21	1 31	23 51	0 13	22 38	0 36	1 20	2 0	1 28	14 3	16 52	17 12	11 22		n.a.
F 7	4 29	22 18	5 10	12 11	1 36	13 30	0 27	24 17	1 39	7 18	1 31	23 51	0 13	22 38	0 36	1 19	2 0	1 29	14 3	16 51	17 11	11 19		n.a.
S 8	4 53	18 29	5 8	12 48	1 42	13 11	0 32	24 23	1 39	7 15	1 31	23 51	0 13	22 38	0 36	1 19	2 0	1 29	14 3	16 49	17 10	11 16		n.a.
S 9	5 16	13 59	4 53	13 25	1 48	12 52	0 36	24 28	1 39	7 12	1 31	23 51	0 13	22 38	0 36	1 18	2 0	1 29	14 3	16 48	17 9	11 13		n.a.
M10	5 40	8 57	4 25	14 0	1 53	12 33	0 41	24 33	1 39	7 9	1 31	23 51	0 13	22 38	0 36	1 17	2 0	1 30	14 3	16 46	17 9	11 10		n.a.
T 11	6 4	3 35	3 45	14 35	1 58	12 13	0 45	24 37	1 38	7 6	1 31	23 51	0 13	22 38	0 36	1 17	2 0	1 30	14 3	16 44	17 8	11 7		n.a.
W12	6 27	1s58	2 55	15 9	2 3	11 53	0 49	24 42	1 38	7 3	1 31	23 51	0 13	22 38	0 36	1 16	2 0	1 31	14 3	16 43	17 7	11 4		n.a.
T 13	6 51	7 29	1 57	15 42	2 8	11 32	0 53	24 46	1 38	7 0	1 31	23 51	0 13	22 37	0 36	1 15	2 0	1 31	14 3	16 42	17 6	11 1		n.a.
F 14	7 14	12 49	0 53	16 14	2 12	11 11	0 57	24 50	1 38	6 57	1 31	23 51	0 13	22 37	0 36	1 15	2 0	1 31	14 3	16 41	17 5	10 58		n.a.
S 15	7 37	17 42	0s15	16 45	2 16	10 49	1 1	24 54	1 38	6 54	1 30	23 51	0 13	22 37	0 36	1 14	2 0	1 32	14 4	16 41	17 4	10 55		n.a.
S 16	8 1	21 54	1 23	17 15	2 20	10 28	1 5	24 57	1 37	6 51	1 30	23 51	0 13	22 37	0 36	1 13	2 0	1 32	14 4	16 41	17 3	10 52		n.a.
M17	8 24	25 8	2 28	17 43	2 23	10 5	1 8	25 0	1 37	6 48	1 30	23 50	0 14	22 37	0 36	1 13	2 0	1 33	14 4	16 42	17 2	10 49		n.a.
T 18	8 47	27 7	3 27	18 11	2 26	9 43	1 12	25 3	1 37	6 45	1 30	23 50	0 14	22 37	0 36	1 12	2 0	1 33	14 4	16 42	17 1	10 46		n.a.
W19	9 9	27 35	4 16	18 37	2 29	9 20	1 15	25 6	1 37	6 42	1 30	23 50	0 14	22 37	0 36	1 12	1 59	1 33	14 4	16 43	17 0	10 43		n.a.
T 20	9 32	26 26	4 52	19 2	2 31	8 56	1 19	25 8	1 36	6 39	1 30	23 50	0 14	22 37	0 36	1 11	1 59	1 34	14 4	16 43	16 59	10 40		n.a.
F 21	9 54	23 38	5 12	19 26	2 33	8 33	1 22	25 10	1 36	6 36	1 30	23 50	0 14	22 36	0 36	1 10	1 59	1 34	14 4	16 43	16 58	10 37		n.a.
S 22	10 17	19 22	5 14	19 48	2 34	8 9	1 25	25 12	1 36	6 33	1 30	23 50	0 14	22 36	0 36	1 10	1 59	1 35	14 4	16 42	16 58	10 34		n.a.
S 23	10 39	13 52	4 55	20 8	2 34	7 45	1 28	25 13	1 35	6 30	1 30	23 50	0 14	22 36	0 36	1 9	1 59	1 35	14 4	16 42	16 57	10 31		n.a.
M24	11 1	7 30	4 17	20 27	2 34	7 20	1 31	25 14	1 35	6 27	1 29	23 50	0 14	22 36	0 36	1 8	1 59	1 35	14 4	16 41	16 56	10 28		n.a.
T 25	11 23	0 41	3 21	20 44	2 34	6 55	1 33	25 15	1 35	6 24	1 29	23 50	0 14	22 36	0 36	1 8	1 59	1 36	14 4	16 40	16 55	10 25		n.a.
W26	11 44	6n11	2 12	20 58	2 32	6 30	1 36	25 16	1 35	6 21	1 29	23 50	0 14	22 35	0 36	1 7	1 59	1 36	14 3	16 40	16 54	10 22		n.a.
T 27	12 6	12 39	0 55	21 11	2 30	6 5	1 38	25 16	1 34	6 19	1 29	23 49	0 14	22 35	0 36	1 7	1 59	1 36	14 3	16 40	16 53	10 19		n.a.
F 28	12 27	18 19	0n25	21 21	2 26	5 39	1 41	25 16	1 34	6 16	1 29	23 49	0 14	22 35	0 36	1 6	1 59	1 37	14 3	16 39	16 52	10 16		n.a.
S 29	12 48	22 50	1 41	21 29	2 22	5 13	1 43	25 16	1 33	6 13	1 29	23 49	0 14	22 35	0 36	1 6	1 59	1 37	14 3	16 40	16 51	10 13		n.a.
S 30	13 9	25 56	2 49	21 34	2 16	4 47	1 45	25 16	1 33	6 10	1 28	23 49	0 14	22 35	0 36	1 5	1 59	1 37	14 3	16 40	16 50	10 10		n.a.
M31	13s30	27n28	3n46	21s36	2s10	4n20	1n47	25s15	1s33	6n 8	1s28	23s49	0s14	22s34	0s35	1n 4	1s59	1s38	14s 3	16n40	16n49	10n 7		n.a.

Julian Day Number = 1684806.5, Delta T = 03h13m34s
Ecliptic obliquity = 23°42'33, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'58, Lahiri = - 5°19'57 Julian Calendar 1 Oct. 101 BCE == Greg. Calendar 29 Sept. 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

NOVEMBER 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 30 0	6♏29'09	13♋44	26♏37	24♍27	2♑16	18°R47	5♑58	21♑25	7°R12	29°R48	15♉32	15♉58	15♍ 7	n.a.	T 1
W 2	2 33 56	7°30'07	26°14	26°58	25°38	3° 2	18♈39	6° 3	21°26	7♈10	29♈47	15°32	15°55	15°14	n.a.	W 2
T 3	2 37 53	8°31'07	8♌27	27°10	26°49	3°48	18°32	6° 8	21°28	7° 9	29°45	15°R32	15°52	15°21	n.a.	T 3
F 4	2 41 49	9°32'08	20°28	27°R12	28° 0	4°34	18°25	6°13	21°29	7° 7	29°44	15°32	15°49	15°28	n.a.	F 4
S 5	2 45 46	10°33'10	2♍22	27° 5	29°12	5°20	18°18	6°18	21°31	7° 6	29°43	15°32	15°46	15°34	n.a.	S 5
S 6	2 49 43	11°34'13	14°12	26°46	0♎23	6° 6	18°11	6°23	21°32	7° 5	29°42	15°31	15°43	15°41	n.a.	S 6
M 7	2 53 39	12°35'18	26° 4	26°16	1°35	6°52	18° 4	6°28	21°34	7° 3	29°41	15°31	15°39	15°48	n.a.	M 7
T 8	2 57 36	13°36'23	8♎ 1	25°35	2°46	7°38	17°57	6°33	21°36	7° 2	29°40	15°31	15°36	15°54	n.a.	T 8
W 9	3 1 32	14°37'30	20° 6	24°42	3°58	8°25	17°51	6°38	21°38	7° 1	29°39	15°30	15°33	16° 1	n.a.	W 9
T 10	3 5 29	15°38'38	2♏21	23°40	5°10	9°11	17°44	6°44	21°39	7° 0	29°38	15°D30	15°30	16° 8	n.a.	T 10
F 11	3 9 25	16°39'46	14°49	22°30	6°22	9°57	17°38	6°49	21°41	6°58	29°37	15°R30	15°27	16°15	n.a.	F 11
S 12	3 13 22	17°40'56	27°29	21°12	7°34	10°43	17°32	6°54	21°43	6°57	29°36	15°30	15°23	16°21	n.a.	S 12
S 13	3 17 18	18°42'06	10♐23	19°51	8°46	11°30	17°26	7° 0	21°45	6°56	29°34	15°30	15°20	16°28	n.a.	S 13
M14	3 21 15	19°43'17	23°30	18°28	9°58	12°16	17°20	7° 6	21°47	6°55	29°33	15°30	15°17	16°35	n.a.	M14
T 15	3 25 12	20°44'28	6♑51	17° 6	11°11	13° 2	17°15	7°11	21°49	6°54	29°32	15°29	15°14	16°41	n.a.	T 15
W16	3 29 8	21°45'40	20°24	15°49	12°23	13°48	17° 9	7°17	21°51	6°53	29°31	15°28	15°11	16°48	n.a.	W16
T 17	3 33 5	22°46'52	4♒ 9	14°38	13°36	14°35	17° 4	7°23	21°54	6°52	29°30	15°28	15° 8	16°55	n.a.	T 17
F 18	3 37 1	23°48'05	18° 6	13°35	14°48	15°21	16°59	7°28	21°56	6°51	29°29	15°D27	15° 4	17° 1	n.a.	F 18
S 19	3 40 58	24°49'17	2♓13	12°42	16° 1	16° 7	16°54	7°34	21°58	6°50	29°28	15°27	15° 1	17° 8	n.a.	S 19
S 20	3 44 54	25°50'30	16°28	12° 0	17°13	16°54	16°49	7°40	22° 0	6°49	29°27	15°28	14°58	17°15	n.a.	S 20
M21	3 48 51	26°51'42	0♈49	11°29	18°26	17°40	16°44	7°46	22° 2	6°48	29°26	15°29	14°55	17°22	n.a.	M21
T 22	3 52 47	27°52'55	15°13	11° 8	19°39	18°26	16°40	7°52	22° 5	6°47	29°25	15°30	14°52	17°28	n.a.	T 22
W23	3 56 44	28°54'08	29°36	10°D58	20°52	19°13	16°36	7°58	22° 7	6°46	29°24	15°31	14°49	17°35	n.a.	W23
T 24	4 0 41	29°55'21	13♉53	10°58	22° 5	19°59	16°31	8° 5	22°10	6°45	29°23	15°R31	14°45	17°42	n.a.	T 24
F 25	4 4 37	0♐56'35	27°59	11° 7	23°18	20°45	16°28	8°11	22°12	6°44	29°22	15°31	14°42	17°48	n.a.	F 25
S 26	4 8 34	1°57'48	11♊50	11°25	24°31	21°31	16°24	8°17	22°15	6°43	29°21	15°30	14°39	17°55	n.a.	S 26
S 27	4 12 30	2°59'02	25°23	11°51	25°44	22°18	16°20	8°23	22°17	6°42	29°20	15°28	14°36	18° 2	n.a.	S 27
M28	4 16 27	4° 0'17	8♋36	12°23	26°57	23° 4	16°17	8°30	22°20	6°42	29°20	15°25	14°33	18° 8	n.a.	M28
T 29	4 20 23	5° 1'31	21°28	13° 2	28°11	23°50	16°14	8°36	22°22	6°41	29°19	15°22	14°29	18°15	n.a.	T 29
W30	4 24 20	6♐ 2'46	4♌ 1	13♏46	29♎24	24♑37	16♈11	8♑42	22♑25	6♈40	29♈18	15♉19	14♉26	18♍22	n.a.	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	13s50	27n28	4n30	21s36	2s 2	3n54	1n49	25s14	1s32	6n 5	1s28	23s49	0s14	22s34	0s35	1n 4	1s59	1s38	14s 3	16n40	16n48	10n 4		n.a.
W 2	14 10	26 2	4 59	21 32	1 53	3 27	1 51	25 12	1 32	6 2	1 28	23 49	0 14	22 34	0 35	1 3	1 59	1 38	14 3	16 41	16 47	10 1		n.a.
T 3	14 30	23 24	5 15	21 24	1 42	3 0	1 53	25 11	1 32	6 0	1 28	23 48	0 15	22 34	0 35	1 3	1 59	1 39	14 3	16 41	16 46	9 58		n.a.
F 4	14 50	19 48	5 16	21 13	1 30	2 33	1 54	25 9	1 31	5 57	1 27	23 48	0 15	22 33	0 35	1 2	1 59	1 39	14 3	16 41	16 46	9 55		n.a.
S 5	15 9	15 28	5 4	20 58	1 16	2 6	1 56	25 7	1 31	5 55	1 27	23 48	0 15	22 33	0 35	1 2	1 59	1 39	14 3	16 41	16 45	9 51		n.a.
S 6	15 28	10 33	4 38	20 39	1 1	1 38	1 57	25 4	1 30	5 52	1 27	23 48	0 15	22 33	0 35	1 1	1 59	1 40	14 3	16 40	16 44	9 48		n.a.
M 7	15 47	5 16	4 1	20 15	0 45	1 11	1 59	25 2	1 30	5 50	1 27	23 48	0 15	22 32	0 35	1 1	1 59	1 40	14 3	16 40	16 43	9 45		n.a.
T 8	16 6	0s16	3 13	19 48	0 26	0 43	2 0	24 59	1 30	5 47	1 27	23 47	0 15	22 32	0 35	1 0	1 59	1 40	14 3	16 40	16 42	9 42		n.a.
W 9	16 24	5 50	2 16	19 17	0 7	0 15	2 1	24 55	1 29	5 45	1 26	23 47	0 15	22 32	0 35	1 0	1 59	1 40	14 2	16 40	16 41	9 39		n.a.
T 10	16 42	11 18	1 12	18 42	0n13	0s13	2 2	24 52	1 29	5 43	1 26	23 47	0 15	22 31	0 35	0 59	1 59	1 41	14 2	16 40	16 40	9 36		n.a.
F 11	17 0	16 24	0 4	18 4	0 33	0 41	2 3	24 48	1 28	5 41	1 26	23 47	0 15	22 31	0 35	0 59	1 59	1 41	14 2	16 40	16 39	9 33		n.a.
S 12	17 18	20 53	1s 6	17 24	0 54	1 9	2 3	24 44	1 28	5 39	1 26	23 47	0 15	22 31	0 35	0 59	1 59	1 41	14 2	16 40	16 38	9 30		n.a.
S 13	17 35	24 28	2 14	16 43	1 14	1 37	2 4	24 39	1 27	5 36	1 25	23 46	0 15	22 30	0 35	0 58	1 59	1 41	14 2	16 40	16 37	9 27		n.a.
M14	17 52	26 48	3 16	16 2	1 32	2 5	2 5	24 35	1 27	5 34	1 25	23 46	0 15	22 30	0 35	0 58	1 59	1 42	14 2	16 40	16 36	9 24		n.a.
T 15	18 8	27 39	4 8	15 22	1 50	2 33	2 5	24 30	1 26	5 33	1 25	23 46	0 15	22 30	0 35	0 57	1 59	1 42	14 2	16 40	16 35	9 21		n.a.
W16	18 25	26 52	4 47	14 45	2 6	3 2	2 5	24 24	1 26	5 31	1 24	23 46	0 15	22 29	0 35	0 57	1 59	1 42	14 2	16 40	16 34	9 18		n.a.
T 17	18 40	24 27	5 11	14 11	2 19	3 30	2 6	24 19	1 25	5 29	1 24	23 45	0 15	22 29	0 35	0 57	1 59	1 42	14 1	16 39	16 33	9 15		n.a.
F 18	18 56	20 35	5 17	13 42	2 31	3 58	2 6	24 13	1 25	5 27	1 24	23 45	0 15	22 29	0 35	0 56	1 58	1 43	14 1	16 39	16 32	9 12		n.a.
S 19	19 11	15 31	5 3	13 17	2 40	4 26	2 6	24 7	1 24	5 26	1 24	23 45	0 15	22 28	0 35	0 56	1 58	1 43	14 1	16 39	16 31	9 9		n.a.
S 20	19 26	9 34	4 32	12 58	2 47	4 54	2 6	24 1	1 24	5 24	1 23	23 45	0 16	22 28	0 35	0 55	1 58	1 43	14 1	16 39	16 31	9 5		n.a.
M21	19 41	3 4	3 43	12 44	2 52	5 22	2 6	23 54	1 23	5 22	1 23	23 44	0 16	22 28	0 35	0 55	1 58	1 43	14 1	16 40	16 30	9 2		n.a.
T 22	19 55	3n36	2 40	12 35	2 54	5 50	2 5	23 47	1 23	5 21	1 23	23 44	0 16	22 27	0 35	0 55	1 58	1 43	14 1	16 40	16 29	8 59		n.a.
W23	20 8	10 6	1 27	12 30	2 55	6 18	2 5	23 40	1 22	5 20	1 22	23 44	0 16	22 27	0 35	0 54	1 58	1 43	14 0	16 40	16 28	8 56		n.a.
T 24	20 22	16 2	0 9	12 31	2 55	6 46	2 5	23 33	1 22	5 18	1 22	23 43	0 16	22 26	0 35	0 54	1 58	1 44	14 0	16 40	16 27	8 53		n.a.
F 25	20 35	21 3	1n 8	12 35	2 53	7 14	2 4	23 25	1 21	5 17	1 22	23 43	0 16	22 26	0 35	0 54	1 58	1 44	14 0	16 40	16 26	8 50		n.a.
S 26	20 47	24 47	2 20	12 44	2 50	7 42	2 3	23 18	1 21	5 16	1 22	23 43	0 16	22 25	0 35	0 54	1 58	1 44	14 0	16 40	16 25	8 47		n.a.
S 27	20 59	27 0	3 23	12 55	2 46	8 9	2 3	23 9	1 20	5 15	1 21	23 42	0 16	22 25	0 35	0 53	1 58	1 44	14 0	16 39	16 24	8 44		n.a.
M28	21 11	27 38	4 12	13 10	2 41	8 37	2 2	23 1	1 20	5 14	1 21	23 42	0 16	22 25	0 35	0 53	1 58	1 44	14 0	16 38	16 23	8 41		n.a.
T 29	21 23	26 43	4 48	13 27	2 36	9 4	2 1	22 53	1 19	5 13	1 21	23 42	0 16	22 24	0 35	0 53	1 58	1 44	13 59	16 38	16 22	8 38		n.a.
W30	21s34	24n27	5n 9	13s46	2n30	9s31	2n 0	22s44	1s18	5n12	1s20	23s41	0s16	22s24	0s35	0n53	1s58	1s44	13s59	16n37	16n21	8n34		n.a.

Julian Day Number = 1684837.5, Delta T = 03h13m33s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'53, Lahiri = - 5°19'53 Julian Calendar 1 Nov. 101 BCE == Greg. Calendar 30 Oct. 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

ASTRODIENST EPHEMERIS for the year 101 BCE
geocentric

DECEMBER 101 BCE (-100) JC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 28 17	7♐ 4'01	16♌18	14♏36	0♏37	25♑23	16°R 8	8♑49	22♑28	6°R40	29°R17	15°R16	14♉23	18♍29	n.a.	T 1
F 2	4 32 13	8° 5'16	28°21	15°30	1°51	26° 9	16♈ 6	8°55	22°30	6♈39	29♈16	15♉15	14°20	18°35	n.a.	F 2
S 3	4 36 10	9° 6'31	10♍16	16°27	3° 4	26°55	16° 4	9° 2	22°33	6°38	29°15	15°D15	14°17	18°42	n.a.	S 3
S 4	4 40 6	10° 7'47	22° 6	17°28	4°18	27°42	16° 2	9° 8	22°36	6°38	29°14	15°15	14°14	18°49	n.a.	S 4
M 5	4 44 3	11° 9'03	3♎58	18°33	5°31	28°28	16° 0	9°15	22°38	6°37	29°14	15°17	14°10	18°55	n.a.	M 5
T 6	4 47 59	12°10'18	15°56	19°40	6°45	29°14	15°58	9°22	22°41	6°37	29°13	15°18	14° 7	19° 2	n.a.	T 6
W 7	4 51 56	13°11'34	28° 5	20°49	7°58	0♒ 0	15°56	9°28	22°44	6°36	29°12	15°20	14° 4	19° 9	n.a.	W 7
T 8	4 55 52	14°12'50	10♏28	22° 1	9°12	0°47	15°55	9°35	22°47	6°36	29°11	15°R21	14° 1	19°15	n.a.	T 8
F 9	4 59 49	15°14'06	23° 7	23°14	10°26	1°33	15°54	9°42	22°50	6°35	29°10	15°21	13°58	19°22	n.a.	F 9
S 10	5 3 46	16°15'21	6♐ 5	24°30	11°40	2°19	15°53	9°49	22°53	6°35	29°10	15°19	13°55	19°29	n.a.	S 10
S 11	5 7 42	17°16'36	19°22	25°47	12°53	3° 5	15°53	9°55	22°56	6°35	29° 9	15°16	13°51	19°36	n.a.	S 11
M12	5 11 39	18°17'51	2♑56	27° 5	14° 7	3°51	15°52	10° 2	22°59	6°34	29° 8	15°11	13°48	19°42	n.a.	M12
T 13	5 15 35	19°19'06	16°45	28°24	15°21	4°38	15°52	10° 9	23° 2	6°34	29° 8	15° 6	13°45	19°49	n.a.	T 13
W14	5 19 32	20°20'19	0♒45	29°45	16°35	5°24	15°D52	10°16	23° 5	6°34	29° 7	15° 0	13°42	19°56	n.a.	W14
T 15	5 23 28	21°21'32	14°52	1♐ 7	17°49	6°10	15°52	10°23	23° 8	6°34	29° 6	14°55	13°39	20° 2	n.a.	T 15
F 16	5 27 25	22°22'44	29° 3	2°30	19° 3	6°56	15°52	10°30	23°11	6°34	29° 6	14°51	13°35	20° 9	n.a.	F 16
S 17	5 31 22	23°23'56	13♓14	3°54	20°17	7°42	15°53	10°37	23°14	6°34	29° 5	14°49	13°32	20°16	n.a.	S 17
S 18	5 35 18	24°25'06	27°24	5°19	21°31	8°28	15°54	10°44	23°17	6°33	29° 4	14°D48	13°29	20°22	n.a.	S 18
M19	5 39 15	25°26'15	11♈29	6°44	22°45	9°14	15°55	10°51	23°20	6°33	29° 4	14°49	13°26	20°29	n.a.	M19
T 20	5 43 11	26°27'23	25°30	8°10	23°59	10° 0	15°56	10°58	23°24	6°D33	29° 3	14°51	13°23	20°36	n.a.	T 20
W21	5 47 8	27°28'30	9♉25	9°37	25°13	10°46	15°58	11° 5	23°27	6°33	29° 3	14°R52	13°20	20°43	n.a.	W21
T 22	5 51 4	28°29'36	23°12	11° 5	26°27	11°32	15°59	11°12	23°30	6°33	29° 2	14°51	13°16	20°49	n.a.	T 22
F 23	5 55 1	29°30'42	6♊51	12°34	27°41	12°18	16° 1	11°19	23°33	6°33	29° 2	14°49	13°13	20°56	n.a.	F 23
S 24	5 58 57	0♑31'46	20°19	14° 3	28°55	13° 4	16° 3	11°26	23°37	6°34	29° 1	14°45	13°10	21° 3	n.a.	S 24
S 25	6 2 54	1°32'49	3♋34	15°33	0♐ 9	13°50	16° 5	11°33	23°40	6°34	29° 1	14°38	13° 7	21° 9	n.a.	S 25
M26	6 6 51	2°33'52	16°35	17° 3	1°23	14°36	16° 8	11°40	23°43	6°34	29° 0	14°30	13° 4	21°16	n.a.	M26
T 27	6 10 47	3°34'53	29°20	18°34	2°37	15°22	16°10	11°48	23°46	6°34	29° 0	14°20	13° 1	21°23	n.a.	T 27
W28	6 14 44	4°35'54	11♌50	20° 6	3°51	16° 7	16°13	11°55	23°50	6°34	29° 0	14°11	12°57	21°29	n.a.	W28
T 29	6 18 40	5°36'53	24° 5	21°39	5° 5	16°53	16°16	12° 2	23°53	6°35	28°59	14° 3	12°54	21°36	n.a.	T 29
F 30	6 22 37	6°37'52	6♍ 8	23°12	6°19	17°39	16°19	12° 9	23°56	6°35	28°59	13°56	12°51	21°43	n.a.	F 30
S 31	6 26 33	7♑38'50	18♍ 3	24♐46	7♐34	18♒25	16♈23	12♑16	24♑ 0	6♈35	28♈59	13♉51	12♉48	21♍50	n.a.	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21 s44	21n 7	5n15	14 s 7	2n23	9 s58	1n59	22 s35	1 s18	5n11	1 s20	23 s41	0 s16	22 s23	0 s35	0n52	1 s58	1 s44	13 s59	16n36	16n20	8n31		n.a.
F 2	21 54	16 58	5 7	14 30	2 16	10 24	1 58	22 25	1 17	5 11	1 20	23 41	0 16	22 23	0 35	0 52	1 58	1 45	13 59	16 36	16 19	8 28		n.a.
S 3	22 4	12 12	4 45	14 53	2 9	10 51	1 57	22 16	1 17	5 10	1 19	23 40	0 16	22 22	0 35	0 52	1 58	1 45	13 59	16 35	16 18	8 25		n.a.
S 4	22 13	7 1	4 12	15 18	2 1	11 17	1 55	22 6	1 16	5 10	1 19	23 40	0 16	22 22	0 35	0 52	1 58	1 45	13 58	16 36	16 17	8 22		n.a.
M 5	22 22	1 35	3 28	15 43	1 53	11 43	1 54	21 56	1 16	5 9	1 19	23 39	0 16	22 21	0 35	0 52	1 58	1 45	13 58	16 36	16 16	8 19		n.a.
T 6	22 30	3 s58	2 35	16 9	1 45	12 9	1 53	21 46	1 15	5 9	1 18	23 39	0 17	22 21	0 35	0 52	1 57	1 45	13 58	16 37	16 15	8 16		n.a.
W 7	22 38	9 28	1 33	16 36	1 37	12 34	1 51	21 35	1 14	5 9	1 18	23 39	0 17	22 20	0 35	0 51	1 57	1 45	13 58	16 37	16 14	8 13		n.a.
T 8	22 46	14 42	0 27	17 3	1 29	13 0	1 50	21 25	1 14	5 8	1 18	23 38	0 17	22 20	0 35	0 51	1 57	1 45	13 57	16 37	16 13	8 9		n.a.
F 9	22 53	19 27	0 s42	17 29	1 21	13 25	1 48	21 14	1 13	5 8	1 17	23 38	0 17	22 19	0 35	0 51	1 57	1 45	13 57	16 37	16 12	8 6		n.a.
S 10	22 59	23 23	1 51	17 56	1 13	13 49	1 46	21 2	1 13	5 8	1 17	23 37	0 17	22 19	0 35	0 51	1 57	1 45	13 57	16 37	16 12	8 3		n.a.
S 11	23 6	26 11	2 55	18 23	1 4	14 13	1 44	20 51	1 12	5 8	1 17	23 37	0 17	22 18	0 35	0 51	1 57	1 45	13 57	16 36	16 11	8 0		n.a.
M12	23 11	27 31	3 51	18 49	0 56	14 37	1 43	20 40	1 11	5 8	1 16	23 36	0 17	22 18	0 35	0 51	1 57	1 45	13 56	16 34	16 10	7 57		n.a.
T 13	23 16	27 10	4 34	19 15	0 48	15 1	1 41	20 28	1 11	5 9	1 16	23 36	0 17	22 17	0 35	0 51	1 57	1 45	13 56	16 33	16 9	7 54		n.a.
W14	23 21	25 7	5 1	19 41	0 40	15 24	1 39	20 16	1 10	5 9	1 16	23 35	0 17	22 17	0 35	0 51	1 57	1 45	13 56	16 31	16 8	7 51		n.a.
T 15	23 25	21 30	5 11	20 6	0 32	15 47	1 37	20 4	1 9	5 9	1 15	23 35	0 17	22 16	0 35	0 51	1 57	1 45	13 56	16 30	16 7	7 47		n.a.
F 16	23 29	16 38	5 1	20 30	0 24	16 10	1 35	19 51	1 9	5 10	1 15	23 34	0 17	22 16	0 35	0 51	1 57	1 45	13 55	16 28	16 6	7 44		n.a.
S 17	23 33	10 51	4 33	20 54	0 16	16 32	1 33	19 39	1 8	5 10	1 15	23 34	0 17	22 15	0 35	0 51	1 57	1 45	13 55	16 28	16 5	7 41		n.a.
S 18	23 35	4 33	3 49	21 18	0 8	16 53	1 30	19 26	1 7	5 11	1 14	23 33	0 17	22 15	0 35	0 51	1 57	1 45	13 55	16 28	16 4	7 38		n.a.
M19	23 38	1n58	2 51	21 40	0 1	17 15	1 28	19 13	1 7	5 12	1 14	23 33	0 17	22 14	0 35	0 51	1 57	1 45	13 55	16 28	16 3	7 35		n.a.
T 20	23 40	8 22	1 43	22 2	0 s 7	17 35	1 26	19 0	1 6	5 12	1 14	23 32	0 17	22 13	0 35	0 51	1 57	1 45	13 54	16 28	16 2	7 32		n.a.
W21	23 41	14 19	0 30	22 23	0 14	17 56	1 24	18 47	1 6	5 13	1 13	23 32	0 18	22 13	0 35	0 51	1 57	1 45	13 54	16 29	16 1	7 29		n.a.
T 22	23 42	19 31	0n45	22 42	0 21	18 16	1 21	18 33	1 5	5 14	1 13	23 31	0 18	22 12	0 35	0 51	1 56	1 45	13 54	16 29	16 0	7 25		n.a.
F 23	23 42	23 36	1 56	23 1	0 28	18 35	1 19	18 20	1 4	5 15	1 13	23 31	0 18	22 12	0 35	0 51	1 56	1 44	13 53	16 28	15 59	7 22		n.a.
S 24	23 42	26 20	2 59	23 19	0 35	18 54	1 16	18 6	1 4	5 16	1 12	23 30	0 18	22 11	0 35	0 51	1 56	1 44	13 53	16 27	15 58	7 19		n.a.
S 25	23 42	27 31	3 52	23 36	0 42	19 12	1 14	17 52	1 3	5 17	1 12	23 30	0 18	22 11	0 35	0 51	1 56	1 44	13 53	16 25	15 57	7 16		n.a.
M26	23 41	27 9	4 31	23 52	0 48	19 30	1 11	17 38	1 2	5 19	1 12	23 29	0 18	22 10	0 35	0 52	1 56	1 44	13 53	16 22	15 56	7 13		n.a.
T 27	23 40	25 20	4 56	24 7	0 54	19 48	1 9	17 23	1 2	5 20	1 12	23 29	0 18	22 9	0 35	0 52	1 56	1 44	13 52	16 19	15 55	7 9		n.a.
W28	23 38	22 20	5 6	24 20	1 0	20 4	1 6	17 9	1 1	5 21	1 11	23 28	0 18	22 9	0 35	0 52	1 56	1 44	13 52	16 16	15 54	7 6		n.a.
T 29	23 35	18 23	5 2	24 33	1 6	20 21	1 4	16 54	1 0	5 23	1 11	23 27	0 18	22 8	0 35	0 52	1 56	1 44	13 52	16 14	15 53	7 3		n.a.
F 30	23 32	13 45	4 44	24 44	1 12	20 36	1 1	16 40	1 0	5 24	1 11	23 27	0 18	22 8	0 35	0 52	1 56	1 44	13 51	16 12	15 52	7 0		n.a.
S 31	23 s29	8n40	4n14	24 s53	1 s17	20 s51	0n58	16 s25	0 s59	5n26	1 s10	23 s26	0 s18	22 s 7	0 s35	0n53	1 s56	1 s43	13 s51	16n11	15n51	6n57		n.a.

Julian Day Number = 1684867.5, Delta T = 03h13m32s
Ecliptic obliquity = 23°42'32, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = - 4°26'49, Lahiri = - 5°19'49 Julian Calendar 1 Dec. 101 BCE == Greg. Calendar 29 Nov. 101 BCE

The year -100 astronomical counting style corresponds to year 101 B.C.E historical counting style.

created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]