



Astrodienst Ephemeris Tables for the year 2221

tropical geocentric zodiac

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

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

ASTRODIENST EPHEMERIS for the year 2221

geocentric

JANUARY 2221

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 41 45	10°13'48	20°18'18	3°R55	4°341	28°56	22°28	2°9	7°28	10°R11	7°56	19°D34	20°42	15°36	11°V 3	M 1
T 2	6 45 42	11°14'56	3°V22	2°345	5°57	29°29	22°41	2°15	7°29	10°II10	7°57	19°34	20°39	15°43	11° 4	T 2
W 3	6 49 38	12°16'04	16°48	1°42	7°12	0°M 2	22°54	2°21	7°29	10° 9	7°57	19°R34	20°36	15°50	11° 4	W 3
T 4	6 53 35	13°17'12	0°837	0°49	8°28	0°35	23° 8	2°27	7°30	10° 7	7°57	19°33	20°33	15°57	11° 5	T 4
F 5	6 57 31	14°18'20	14°51	0° 6	9°43	1° 7	23°21	2°33	7°30	10° 6	7°57	19°29	20°30	16° 3	11° 6	F 5
S 6	7 1 28	15°19'28	29°30	29°34	10°59	1°40	23°34	2°39	7°30	10° 5	7°57	19°23	20°26	16°10	11° 6	S 6
S 7	7 5 25	16°20'36	14°II27	29°11	12°14	2°13	23°47	2°45	7°31	10° 3	7°58	19°15	20°23	16°17	11° 7	S 7
M 8	7 9 21	17°21'43	29°36	28°59	13°30	2°45	24° 0	2°51	7°31	10° 2	7°58	19° 5	20°20	16°23	11° 8	M 8
T 9	7 13 18	18°22'51	14°346	28°D56	14°45	3°18	24°13	2°56	7°31	10° 1	7°58	18°55	20°17	16°30	11° 9	T 9
W10	7 17 14	19°23'58	29°47	29° 2	16° 1	3°50	24°26	3° 2	7°31	9°59	7°R58	18°47	20°14	16°37	11°10	W10
T11	7 21 11	20°25'05	14°Q29	29°16	17°16	4°23	24°39	3° 8	7°31	9°58	7°58	18°40	20°11	16°44	11°11	T11
F12	7 25 7	21°26'12	28°46	29°38	18°32	4°55	24°52	3°13	7°R31	9°57	7°58	18°36	20° 7	16°50	11°12	F12
S13	7 29 4	22°27'20	12°34	0°3 6	19°47	5°27	25° 4	3°19	7°31	9°56	7°58	18°D34	20° 4	16°57	11°13	S13
S14	7 33 1	23°28'27	25°54	0°41	21° 3	5°59	25°17	3°24	7°31	9°55	7°57	18°34	20° 1	17° 4	11°15	S14
M15	7 36 57	24°29'34	8°47	1°21	22°18	6°31	25°30	3°30	7°31	9°54	7°57	18°35	19°58	17°11	11°16	M15
T16	7 40 54	25°30'41	21°18	2° 6	23°33	7° 2	25°43	3°35	7°31	9°53	7°57	18°R36	19°55	17°17	11°17	T16
W17	7 44 50	26°31'48	3°M32	2°56	24°49	7°34	25°55	3°40	7°31	9°51	7°57	18°36	19°51	17°24	11°19	W17
T18	7 48 47	27°32'55	15°33	3°50	26° 4	8° 5	26° 8	3°45	7°30	9°50	7°57	18°34	19°48	17°31	11°20	T18
F19	7 52 43	28°34'02	27°27	4°47	27°20	8°37	26°20	3°50	7°30	9°49	7°56	18°29	19°45	17°37	11°21	F19
S20	7 56 40	29°35'08	9°17	5°47	28°35	9° 8	26°33	3°55	7°29	9°48	7°56	18°23	19°42	17°44	11°23	S20
S21	8 0 36	0°36'15	21° 9	6°50	29°51	9°39	26°45	4° 0	7°29	9°47	7°56	18°15	19°39	17°51	11°25	S21
M22	8 4 33	1°37'21	3°3 4	7°56	1°36	10°10	26°57	4° 5	7°28	9°47	7°55	18° 6	19°36	17°58	11°26	M22
T23	8 8 30	2°38'27	15° 5	9° 4	2°22	10°41	27°10	4°10	7°28	9°46	7°55	17°56	19°32	18° 4	11°28	T23
W24	8 12 26	3°39'32	27°14	10°14	3°37	11°12	27°22	4°15	7°27	9°45	7°54	17°48	19°29	18°11	11°30	W24
T25	8 16 23	4°40'36	9°31	11°27	4°53	11°42	27°34	4°20	7°27	9°44	7°54	17°40	19°26	18°18	11°31	T25
F26	8 20 19	5°41'40	21°58	12°41	6° 8	12°13	27°46	4°24	7°26	9°43	7°53	17°35	19°23	18°25	11°33	F26
S27	8 24 16	6°42'43	4°35	13°56	7°23	12°43	27°58	4°29	7°25	9°42	7°53	17°32	19°20	18°31	11°35	S27
S28	8 28 12	7°43'45	17°23	15°13	8°39	13°13	28°10	4°33	7°24	9°42	7°52	17°D31	19°17	18°38	11°37	S28
M29	8 32 9	8°44'46	0°V23	16°32	9°54	13°43	28°22	4°38	7°23	9°41	7°52	17°32	19°13	18°45	11°39	M29
T30	8 36 5	9°45'47	13°37	17°51	11°10	14°13	28°34	4°42	7°22	9°40	7°51	17°33	19°10	18°51	11°41	T30
W31	8 40 2	10°46'46	27°V 6	19°312	12°25	14°M43	28°46	4°46	7°21	9°II40	7°50	17°35	19°7	18°58	11°V43	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	23s 1	3s54	0s 4	20s28	2n54	23s32	0s13	9s40	1n31	22s45	0n26	18s40	1n56	2s17	0n44	20n21
T 2	22 56	0n14	1 13	20 21	3 1	23 32	0 15	9 51	1 31	22 46	0 26	18 41	1 56	2 17	0 44	20 21
W 3	22 51	4 27	2 20	20 17	3 7	23 30	0 18	10 3	1 31	22 47	0 26	18 43	1 56	2 17	0 44	20 21
T 4	22 45	8 33	3 20	20 14	3 10	23 28	0 20	10 14	1 31	22 48	0 26	18 44	1 56	2 18	0 44	20 21
F 5	22 38	12 17	4 10	20 13	3 11	23 25	0 22	10 26	1 31	22 48	0 26	18 45	1 56	2 18	0 44	20 21
S 6	22 32	15 22	4 46	20 14	3 10	23 22	0 25	10 37	1 31	22 49	0 26	18 46	1 56	2 18	0 44	20 21
S 7	22 25	17 30	5 2	20 17	3 7	23 18	0 27	10 48	1 31	22 50	0 26	18 47	1 56	2 18	0 44	20 21
M 8	22 17	18 26	4 58	20 21	3 3	23 13	0 29	10 59	1 31	22 50	0 26	18 48	1 56	2 18	0 44	20 20
T 9	22 9	18 4	4 34	20 26	2 58	23 7	0 31	11 10	1 31	22 51	0 26	18 49	1 56	2 18	0 44	20 20
W10	22 0	16 25	3 50	20 33	2 51	23 0	0 34	11 21	1 31	22 52	0 26	18 50	1 57	2 18	0 44	20 20
T11	21 52	13 44	2 52	20 40	2 44	22 53	0 36	11 32	1 31	22 52	0 26	18 51	1 57	2 18	0 44	20 20
F12	21 42	10 16	1 44	20 48	2 36	22 45	0 38	11 43	1 31	22 53	0 26	18 52	1 57	2 18	0 45	20 20
S13	21 32	6 20	0 32	20 57	2 28	22 37	0 40	11 53	1 31	22 53	0 26	18 53	1 57	2 18	0 45	20 20
S14	21 22	2 14	0n39	21 5	2 19	22 28	0 42	12 4	1 31	22 54	0 26	18 54	1 57	2 18	0 45	20 20
M15	21 12	1s51	1 46	21 14	2 10	22 18	0 44	12 14	1 31	22 54	0 26	18 55	1 57	2 18	0 45	20 19
T16	21 1	5 44	2 46	21 23	2 0	22 7	0 46	12 25	1 31	22 55	0 25	18 55	1 57	2 18	0 45	20 19
W17	20 49	9 16	3 37	21 32	1 51	21 56	0 48	12 35	1 31	22 55	0 25	18 56	1 57	2 17	0 45	20 19
T18	20 37	12 21	4 18	21 40	1 41	21 44	0 50	12 45	1 31	22 56	0 25	18 57	1 57	2 17	0 45	20 19
F19	20 25	14 54	4 47	21 48	1 32	21 31	0 52	12 55	1 31	22 56	0 25	18 58	1 58	2 17	0 45	20 19
S20	20 13	16 49	5 3	21 55	1 22	21 18	0 54	13 5	1 31	22 57	0 25	18 59	1 58	2 17	0 45	20 19
S21	20 0	18 1	5 7	22 2	1 12	21 4	0 56	13 15	1 31	22 57	0 25	19 0	1 58	2 17	0 45	20 19
M22	19 46	18 26	4 57	22 7	1 3	20 50	0 58	13 25	1 31	22 57	0 25	19 0	1 58	2 16	0 45	20 19
T23	19 33	18 1	4 34	22 13	0 54	20 34	0 59	13 34	1 31	22 58	0 25	19 1	1 58	2 16	0 45	20 19
W24	19 19	16 48	3 58	22 17	0 44	20 19	1 1	13 44	1 31	22 58	0 25	19 2	1 58	2 16	0 45	20 19
T25	19 4	14 47	3 11	22 20	0 35	20 2	1 3	13 53	1 31	22 58	0 25	19 3	1 58	2 16	0 45	20 19
F26	18 49	12 3	2 14	22 22	0 26	19 45	1 4	14 3	1 31	22 58	0 25	19 3	1 58	2 15	0 45	20 18
S27	18 34	8 44	1 10	22 24	0 17	19 28	1 6	14 12	1 30	22 59	0 25	19 4	1 58	2 15	0 45	20 18
S28	18 19	4 58	0 1	22 24	0 9	19 10	1 8	14 21	1 30	22 59	0 25	19 5	1 59	2 15	0 45	20 18
M29	18 3	0 55	1s 9	22 23	0 0	18 51	1 9	14 30	1 30	22 59	0 25	19 5	1 59	2 14	0 45	20 18
T30	17 47	3n15	2 17	22 21	0s 8	18 32	1 10	14 39	1 30	22 59	0 25	19 6	1 59	2 14	0 45	20 18
W31	17s30	7n20	3s19	22s18	0s16	18s12	1s12	14s48	1n30	22s59	0n25	19s 7	1n59	2s13	0n45	20n18

Julian Day Number = 2532263.5, Delta T = 184.98 sec
 Ecliptic obliquity = 23°24'28", Nutation = - 0°00'02", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°49'44", Lahiri = 26°56'44"

ASTRODIENST EPHEMERIS for the year 2221

geocentric

FEBRUARY 2221

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 43 58	11°47'43"	10°52'	20°34'	13°40'	15°13'	28°57'	4°50'	7°R20	9°R39	7°R50	17°R36	19°4	19°5	11°45'	T 1
F 2	8 47 55	12°48'40"	24°55'	21°57'	14°56'	15°42'	29° 9'	4°54'	7°19	9°138	7°49	17°35	19° 1'	19°12'	11°47'	F 2
S 3	8 51 52	13°49'36"	9°15'	23°22'	16°11'	16°11'	29°21'	4°58'	7°18	9°38	7°48	17°33	18°57'	19°18'	11°50'	S 3
S 4	8 55 48	14°50'30"	23°48'	24°47'	17°26'	16°40'	29°32'	5° 2'	7°17	9°37	7°47	17°29	18°54'	19°25'	11°52'	S 4
M 5	8 59 45	15°51'23"	8°30'	26°13'	18°42'	17° 9'	29°43'	5° 6'	7°15	9°37	7°46	17°25	18°51'	19°32'	11°54'	M 5
T 6	9 3 41	16°52'15"	23°15'	27°39'	19°57'	17°38'	29°55'	5°10'	7°14	9°36	7°45	17°20	18°48'	19°38'	11°56'	T 6
W 7	9 7 38	17°53'05"	7°55'	29° 7'	21°12'	18° 7'	0°3 6'	5°13'	7°13	9°36	7°45	17°15	18°45'	19°45'	11°59'	W 7
T 8	9 11 34	18°53'55"	22°22'	0°36'	22°28'	18°35'	0°17'	5°17'	7°11	9°36	7°44	17°12	18°42'	19°52'	12° 1'	T 8
F 9	9 15 31	19°54'43"	6°31'	2° 5'	23°43'	19° 3'	0°28'	5°20'	7°10	9°35	7°43	17°11	18°38'	19°59'	12° 4'	F 9
S 10	9 19 28	20°55'30"	20°17'	3°35'	24°58'	19°31'	0°39'	5°24'	7° 8'	9°35	7°42	17°D10	18°35'	20° 5'	12° 6'	S 10
S 11	9 23 24	21°56'16"	3°39'	5° 7'	26°14'	19°59'	0°50'	5°27'	7° 7'	9°35	7°41	17°11	18°32'	20°12'	12° 9'	S 11
M12	9 27 21	22°57'01"	16°37'	6°38'	27°29'	20°27'	1° 1'	5°30'	7° 5'	9°34	7°40	17°12	18°29'	20°19'	12°11'	M12
T 13	9 31 17	23°57'45"	29°14'	8°11'	28°44'	20°54'	1°11'	5°33'	7° 4'	9°34	7°39	17°14	18°26'	20°26'	12°14'	T 13
W14	9 35 14	24°58'28"	11°33'	9°45'	29°59'	21°21'	1°22'	5°36'	7° 2'	9°34	7°38	17°16	18°23'	20°32'	12°16'	W14
T 15	9 39 10	25°59'10"	23°38'	11°19'	1°14'	21°49'	1°32'	5°39'	7° 0'	9°34	7°36	17°R16	18°19'	20°39'	12°19'	T 15
F 16	9 43 7	26°59'51"	5°34'	12°54'	2°30'	22°15'	1°43'	5°42'	6°58	9°34	7°35	17°16	18°16'	20°46'	12°22'	F 16
S 17	9 47 3	28° 0'31"	17°26'	14°30'	3°45'	22°42'	1°53'	5°45'	6°57	9°34	7°34	17°15	18°13'	20°52'	12°24'	S 17
S 18	9 51 0	29° 1'09"	29°19'	16° 7'	5° 0'	23° 8'	2° 3'	5°47'	6°55	9°34	7°33	17°13	18°10'	20°59'	12°27'	S 18
M19	9 54 56	0°14'47"	11°316	17°45'	6°15'	23°35'	2°13'	5°50'	6°53	9°D34	7°32	17°10	18° 7'	21° 6'	12°30'	M19
T 20	9 58 53	1° 2'23"	23°21	19°23'	7°30'	24° 0'	2°23'	5°52'	6°51	9°34	7°31	17° 7'	18° 3'	21°13'	12°33'	T 20
W21	10 2 50	2° 2'58"	5°37'	21° 3'	8°45'	24°26'	2°33'	5°55'	6°49	9°34	7°29	17° 5'	18° 0'	21°19'	12°36'	W21
T 22	10 6 46	3° 3'32"	18° 6'	22°43'	10° 1'	24°52'	2°43'	5°57'	6°47	9°34	7°28	17° 3'	17°57'	21°26'	12°39'	T 22
F 23	10 10 43	4° 4'04"	0°49'	24°24'	11°16'	25°17'	2°53'	5°59'	6°45	9°34	7°27	17° 2'	17°54'	21°33'	12°42'	F 23
S 24	10 14 39	5° 4'34"	13°47'	26° 7'	12°31'	25°42'	3° 2'	6° 1'	6°43	9°34	7°25	17°D 1	17°51'	21°40'	12°45'	S 24
S 25	10 18 36	6° 5'03"	26°58'	27°50'	13°46'	26° 6'	3°12'	6° 3'	6°41	9°34	7°24	17° 1'	17°48'	21°46'	12°48'	S 25
M26	10 22 32	7° 5'30"	10°Y22	29°34'	15° 1'	26°31'	3°21'	6° 5'	6°39	9°34	7°23	17° 2'	17°44'	21°53'	12°51'	M26
T 27	10 26 29	8° 5'56"	23°59'	1°19'	16°16'	26°55'	3°30'	6° 7'	6°37	9°35	7°21	17° 3'	17°41'	22° 0'	12°54'	T 27
W28	10 30 25	9°16'19"	7°46'	3°5'	17°31'	27°19'	3°39'	6° 8'	6°34	9°135	7°20	17°4	17°38	22°6'	12°57'	W28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	17s14	11n 6	4s10	22s14	0s24	17s52	1s13	14s57	1n30	23s 0	0n25	19s 7	1n59	2s13	0n45	20n18
F 2	16 57	14 19	4 48	22 8	0 32	17 31	1 14	15 5	1 30	23 0	0 25	19 8	1 59	2 12	0 45	20 18
S 3	16 39	16 43	5 9	22 2	0 39	17 10	1 16	15 14	1 30	23 0	0 25	19 8	1 59	2 12	0 45	20 18
S 4	16 22	18 6	5 10	21 54	0 46	16 48	1 17	15 22	1 29	23 0	0 25	19 9	2 0	2 11	0 45	20 18
M 5	16 4	18 18	4 51	21 45	0 53	16 26	1 18	15 30	1 29	23 0	0 25	19 9	2 0	2 11	0 45	20 18
T 6	15 46	17 15	4 13	21 35	1 0	16 4	1 19	15 39	1 29	23 0	0 24	19 10	2 0	2 10	0 45	20 18
W 7	15 27	15 4	3 19	21 23	1 6	15 40	1 20	15 47	1 29	23 0	0 24	19 11	2 0	2 10	0 45	20 18
T 8	15 8	11 58	2 12	21 10	1 12	15 17	1 21	15 55	1 29	23 0	0 24	19 11	2 0	2 9	0 45	20 18
F 9	14 49	8 13	0 58	20 56	1 18	14 53	1 22	16 2	1 29	23 0	0 24	19 11	2 0	2 9	0 45	20 18
S 10	14 30	4 6	0n17	20 41	1 23	14 29	1 23	16 10	1 28	23 0	0 24	19 12	2 0	2 8	0 46	20 18
S 11	14 11	0s 5	1 29	20 24	1 29	14 4	1 23	16 18	1 28	23 0	0 24	19 12	2 1	2 7	0 46	20 18
M12	13 51	4 8	2 35	20 6	1 34	13 39	1 24	16 25	1 28	23 0	0 24	19 13	2 1	2 7	0 46	20 18
T 13	13 31	7 54	3 31	19 47	1 38	13 13	1 25	16 33	1 28	23 0	0 24	19 13	2 1	2 6	0 46	20 18
W14	13 11	11 13	4 16	19 26	1 43	12 47	1 25	16 40	1 28	23 0	0 24	19 13	2 1	2 5	0 46	20 18
T 15	12 50	13 59	4 49	19 4	1 47	12 21	1 26	16 47	1 27	23 0	0 24	19 14	2 1	2 5	0 46	20 18
F 16	12 30	16 8	5 9	18 41	1 50	11 55	1 26	16 54	1 27	23 0	0 24	19 14	2 1	2 4	0 46	20 18
S 17	12 9	17 35	5 15	18 16	1 54	11 28	1 26	17 1	1 27	23 0	0 24	19 15	2 2	2 3	0 46	20 18
S 18	11 48	18 16	5 8	17 50	1 57	11 1	1 27	17 8	1 27	23 0	0 24	19 15	2 2	2 2	0 46	20 18
M19	11 27	18 9	4 48	17 23	1 59	10 33	1 27	17 15	1 26	22 59	0 24	19 15	2 2	2 2	0 46	20 18
T 20	11 5	17 12	4 15	16 55	2 2	10 5	1 27	17 22	1 26	22 59	0 24	19 15	2 2	2 1	0 46	20 18
W21	10 44	15 27	3 29	16 25	2 4	9 37	1 27	17 28	1 26	22 59	0 24	19 16	2 2	2 0	0 46	20 19
T 22	10 22	12 57	2 33	15 54	2 5	9 9	1 27	17 35	1 25	22 59	0 24	19 16	2 2	1 59	0 46	20 19
F 23	10 0	9 47	1 28	15 21	2 6	8 41	1 27	17 41	1 25	22 59	0 24	19 16	2 2	1 58	0 46	20 19
S 24	9 38	6 6	0 18	14 47	2 7	8 12	1 27	17 47	1 25	22 59	0 24	19 16	2 3	1 57	0 46	20 19
S 25	9 16	2 3	0s55	14 12	2 8	7 43	1 27	17 53	1 24	22 58	0 24	19 16	2 3	1 57	0 46	20 19
M26	8 54	2n10	2 6	13 36	2 7	7 14	1 27	17 59	1 24	22 58	0 24	19 17	2 3	1 56	0 46	20 19
T 27	8 31	6 20	3 11	12 58	2 7	6 44	1 27	18 5	1 23	22 58	0 24	19 17	2 3	1 55	0 46	20 19
W28	8s 9	10n12	4s 6	12s19	2s 6	6s15	1s26	18s11	1n23	22s58	0n24	19s17	2n 3	1s54	0n46	20n19

Julian Day Number = 2532294.5, Delta T = 185.08 sec

Ecliptic obliquity = 23°24'29", Nutation = - 0°00'02", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°49'48", Lahiri = 26°56'49"

ASTRODIENST EPHEMERIS for the year 2221

geocentric

MARCH 2221

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 34 22	10° 6'41	21° 8'43	4° 5'28	18° 4'46	27° 11'42	3° 3'48	6° 8'10	6° 8'32	9° 11'35	7° 8'19	17° 11'4	17° 11'35	22° 21'13	13° 13'0	T 1
F 2	10 38 19	11° 7'01	5° 11'48	6° 4'40	20° 1'20	28° 6'28	3° 5'57	6° 11'11	6° 11'30	9° 3'36	7° 11'17	17° 17'5	17° 17'32	22° 22'20	13° 13'3	F 2
S 3	10 42 15	12° 7'18	20° 0'0	8° 2'29	21° 1'16	28° 29'28	4° 6'6	6° 13'13	6° 13'28	9° 3'36	7° 11'16	17° 17'5	17° 17'28	22° 22'27	13° 13'6	S 3
S 4	10 46 12	13° 7'34	4° 15'15	10° 1'18	22° 3'31	28° 5'128	4° 14'14	6° 14'14	6° 14'25	9° 3'37	7° 11'14	17° 17'4	17° 17'25	22° 22'33	13° 13'9	S 4
M 5	10 50 8	14° 7'48	18° 3'32	12° 9'9	23° 4'46	29° 14'29	4° 23'23	6° 15'15	6° 15'23	9° 3'37	7° 11'13	17° 17'4	17° 17'22	22° 22'40	13° 13'13	M 5
T 6	10 54 5	15° 8'00	2° 12'47	14° 1'1	25° 1'25	29° 36'29	4° 31'43	6° 16'16	6° 16'21	9° 3'38	7° 11'11	17° 17'4	17° 17'19	22° 22'47	13° 13'16	T 6
W 7	10 58 1	16° 8'09	16° 5'57	15° 5'54	26° 1'15	29° 57'29	4° 40'40	6° 17'17	6° 17'18	9° 3'38	7° 11'10	17° 17'4	17° 17'16	22° 22'53	13° 13'19	W 7
T 8	11 1 58	17° 8'17	0° 11'56	17° 4'48	27° 3'30	0° 11'19	4° 48'48	6° 18'18	6° 18'16	9° 3'39	7° 8'8	17° 17'D 4	17° 17'13	23° 23'0	13° 13'22	T 8
F 9	11 5 54	18° 8'22	14° 4'43	19° 4'42	28° 4'45	0° 4'40	4° 56'56	6° 19'19	6° 19'13	9° 3'39	7° 7'7	17° 17'R 4	17° 17'9	23° 23'7	13° 13'26	F 9
S 10	11 9 51	19° 8'26	28° 14'21	21° 3'37	29° 5'59	1° 1'1	5° 3'3	6° 20'20	6° 20'11	9° 4'40	7° 5'5	17° 17'4	17° 17'6	23° 23'14	13° 13'29	S 10
S 11	11 13 48	20° 8'28	11° 11'27	23° 3'33	1° 11'15	1° 21'1	5° 11'5	6° 20'20	6° 20'8	9° 4'41	7° 4'4	17° 17'3	17° 17'3	23° 23'20	13° 13'32	S 11
M 12	11 17 44	21° 8'29	24° 2'21	25° 3'30	2° 2'29	1° 41'1	5° 19'5	6° 21'21	6° 21'6	9° 4'41	7° 2'2	17° 17'3	17° 17'0	23° 23'27	13° 13'36	M 12
T 13	11 21 41	22° 8'27	6° 11'57	27° 2'27	3° 4'44	2° 1'2	5° 26'26	6° 21'21	6° 21'3	9° 4'42	7° 0'0	17° 17'2	16° 16'57	23° 23'34	13° 13'39	T 13
W 14	11 25 37	23° 8'24	19° 1'18	29° 2'25	4° 5'49	2° 20'2	5° 33'33	6° 21'21	6° 21'6	9° 4'43	6° 59'9	17° 17'2	16° 16'54	23° 23'41	13° 13'42	W 14
T 15	11 29 34	24° 8'19	1° 11'26	1° 11'22	6° 13'13	2° 39'2	5° 40'40	6° 21'21	5° 58'58	9° 4'44	6° 57'7	17° 17'1	16° 16'50	23° 23'47	13° 13'46	T 15
F 16	11 33 30	25° 8'13	13° 2'24	3° 20'20	7° 2'28	2° 57'2	5° 47'47	6° 21'21	5° 56'56	9° 4'44	6° 56'6	17° 17'0	16° 16'47	23° 23'54	13° 13'49	F 16
S 17	11 37 27	26° 8'05	25° 1'17	5° 17'8	8° 4'43	3° 15'3	5° 54'54	6° 21'21	5° 53'53	9° 4'45	6° 54'4	17° 17'D 0	16° 16'44	24° 24'1	13° 13'53	S 17
S 18	11 41 23	27° 7'56	7° 11'11	7° 13'9	9° 5'57	3° 33'3	6° 1'1	6° 21'21	5° 51'51	9° 4'46	6° 52'2	17° 17'0	16° 16'41	24° 24'7	13° 13'56	S 18
M 19	11 45 20	28° 7'44	19° 8'8	9° 9'11	11° 12'11	3° 50'3	6° 7'6	6° 21'21	5° 48'48	9° 4'47	6° 51'1	17° 17'1	16° 16'38	24° 24'14	14° 14'0	M 19
T 20	11 49 16	29° 7'31	1° 11'15	11° 4'12	12° 2'26	4° 7'7	6° 14'14	6° 21'21	5° 46'46	9° 4'48	6° 49'9	17° 17'2	16° 16'34	24° 24'21	14° 14'3	T 20
W 21	11 53 13	0° 7'16	13° 13'34	12° 5'6	13° 4'41	4° 23'2	6° 20'20	6° 20'20	5° 43'43	9° 4'49	6° 48'7	17° 17'3	16° 16'31	24° 24'28	14° 14'7	W 21
T 22	11 57 10	1° 7'00	26° 1'14	14° 4'47	14° 5'55	4° 39'3	6° 26'26	6° 20'20	5° 40'40	9° 5'50	6° 46'6	17° 17'4	16° 16'28	24° 24'34	14° 14'10	T 22
F 23	12 1 6	2° 6'41	9° 11'5	16° 3'35	16° 10'10	4° 55'5	6° 32'32	6° 19'19	5° 38'38	9° 5'51	6° 44'4	17° 17'5	16° 16'25	24° 24'41	14° 14'14	F 23
S 24	12 5 3	3° 6'21	22° 2'0	18° 2'0	17° 24'4	5° 9'9	6° 38'38	6° 18'18	5° 35'35	9° 5'52	6° 43'3	17° 17'R 5	16° 16'22	24° 24'48	14° 14'17	S 24
S 25	12 8 59	4° 5'59	5° 11'54	20° 2'2	18° 39'3	5° 24'2	6° 43'43	6° 17'17	5° 33'33	9° 5'53	6° 41'1	17° 17'4	16° 16'19	24° 24'54	14° 14'21	S 25
M 26	12 12 56	5° 5'34	19° 4'45	21° 4'40	19° 53'3	5° 38'3	6° 49'49	6° 16'16	5° 30'30	9° 5'54	6° 39'9	17° 17'3	16° 16'15	25° 25'1	14° 14'24	M 26
T 27	12 16 52	6° 5'08	3° 11'51	23° 14'21	21° 8'8	5° 51'5	6° 54'54	6° 15'15	5° 27'27	9° 5'56	6° 38'8	17° 17'0	16° 16'12	25° 25'8	14° 14'28	T 27
W 28	12 20 49	7° 4'39	18° 6'6	24° 4'43	22° 2'22	6° 4'4	6° 59'59	6° 14'14	5° 25'25	9° 5'57	6° 36'6	16° 16'58	16° 16'9	25° 25'15	14° 14'31	W 28
T 29	12 24 45	8° 4'09	2° 11'26	26° 6'6	23° 36'6	6° 16'6	7° 4'4	6° 13'13	5° 22'22	9° 5'58	6° 34'4	16° 16'55	16° 16'6	25° 25'21	14° 14'35	T 29
F 30	12 28 42	9° 3'36	16° 4'46	27° 2'25	24° 50'6	6° 28'2	7° 9'9	6° 11'11	5° 20'20	9° 5'59	6° 33'3	16° 16'53	16° 16'3	25° 25'28	14° 14'38	F 30
S 31	12 32 39	10° 3'01	1° 11'26	28° 3'37	26° 11'5	6° 40'4	7° 13'13	6° 10'10	5° 17'17	10° 11'1	6° 31'1	16° 16'51	16° 16'0	25° 25'35	14° 14'42	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s46	13n33	4s47	11s39	2s 5	5s45	1s26	18s17	1n23	22s58	0n24	19s17	2n 3	1s53	0n46	20n19
F 2	7 23	16 8	5 11	10 57	2 3	5 15	1 25	18 22	1 22	22 57	0 24	19 17	2 4	1 52	0 46	20 19
S 3	7 0	17 46	5 17	10 15	2 0	4 45	1 25	18 28	1 22	22 57	0 24	19 17	2 4	1 51	0 46	20 19
S 4	6 37	18 18	5 3	9 30	1 58	4 15	1 24	18 33	1 21	22 57	0 23	19 17	2 4	1 51	0 46	20 20
M 5	6 14	17 39	4 31	8 45	1 54	3 45	1 23	18 39	1 21	22 57	0 23	19 17	2 4	1 50	0 46	20 20
T 6	5 51	15 55	3 42	7 59	1 50	3 15	1 23	18 44	1 20	22 56	0 23	19 17	2 4	1 49	0 46	20 20
W 7	5 28	13 12	2 39	7 11	1 46	2 44	1 22	18 49	1 20	22 56	0 23	19 17	2 4	1 48	0 46	20 20
T 8	5 4	9 45	1 28	6 22	1 41	2 14	1 21	18 54	1 19	22 56	0 23	19 17	2 5	1 47	0 46	20 20
F 9	4 41	5 49	0 13	5 32	1 35	1 43	1 20	18 59	1 19	22 56	0 23	19 17	2 5	1 46	0 46	20 20
S 10	4 18	1 39	1n 2	4 41	1 29	1 13	1 19	19 4	1 18	22 55	0 23	19 17	2 5	1 45	0 46	20 20
S 11	3 54	2s30	2 11	3 49	1 23	0 42	1 18	19 8	1 17	22 55	0 23	19 17	2 5	1 44	0 46	20 21
M 12	3 30	6 26	3 12	2 56	1 15	0 11	1 17	19 13	1 17	22 55	0 23	19 17	2 5	1 43	0 46	20 21
T 13	3 7	9 59	4 3	2 3	1 8	0n19	1 16	19 18	1 16	22 55	0 23	19 17	2 5	1 42	0 46	20 21
W 14	2 43	13 1	4 41	1 9	0 59	0 50	1 15	19 22	1 16	22 54	0 23	19 17	2 6	1 41	0 46	20 21
T 15	2 19	15 26	5 5	0 14	0 50	1 21	1 13	19 26	1 15	22 54	0 23	19 17	2 6	1 40	0 46	20 21
F 16	1 56	17 9	5 16	0n42	0 41	1 51	1 12	19 31	1 14	22 54	0 23	19 16	2 6	1 39	0 46	20 21
S 17	1 32	18 6	5 14	1 37	0 31	2 22	1 11	19 35	1 13	22 54	0 23	19 16	2 6	1 38	0 46	20 22
S 18	1 8	18 16	4 58	2 33	0 20	2 53	1 9	19 39	1 13	22 53	0 23	19 16	2 6	1 37	0 46	20 22
M 19	0 45	17 37	4 29	3 29	0 9	3 23	1 8	19 43	1 12	22 53	0 23	19 16	2 6	1 36	0 46	20 22
T 20	0 21	16 9	3 47	4 24	0n 2	3 54	1 6	19 47	1 11	22 53	0 23	19 16	2 7	1 35	0 46	20 22
W 21	0n 3	13 56	2 55	5 19	0 14	4 24	1 4	19 50	1 10	22 53	0 23	19 15	2 7	1 34	0 46	20 22
T 22	0 27	11 0	1 53	6 13	0 26	4 54	1 3	19 54	1 9	22 52	0 23	19 15	2 7	1 33	0 46	20 23
F 23	0 50	7 28	0 44	7 6	0 38	5 25	1 1	19 58	1 9	22 52	0 23	19 15	2 7	1 32	0 46	20 23
S 24	1 14	3 29	0s29	7 57	0 50	5 55	0 59	20 1	1 8	22 52	0 23	19 15	2 7	1 31	0 46	20 23
S 25	1 38	0n47	1 42	8 48	1 3	6 25	0 57	20 5	1 7	22 52	0 23	19 14	2 7	1 30	0 46	20 23
M 26	2 1	5 5	2 51	9 36	1 15	6 54	0 56	20 8	1 6	22 51	0 23	19 14	2 7	1 29	0 46	20 23
T 27	2 25	9 10	3 50	10 22	1 28	7 24	0 54	20 12	1 5	22 51	0 23	19 14	2 8	1 28	0 46	20 24
W 28	2 48	12 47	4 36	11 7	1 40	7 54	0 52	20 15	1 4	22 51	0 23	19 13	2 8	1 27	0 46	20 24
T 29	3 12	15 38	5 5	11 48	1 52	8 23	0 50	20 18	1 3	22 51	0 23	19 13	2 8	1 25	0 46	20 24
F 30	3 35	17 32	5 15	12 27	2 3	8 52	0 48	20 21	1 2	22 50	0 23	19 13	2 8	1 24	0 46	20 24
S 31	3n59	18n19	5s 5	13n 3	2n14	9n21	0s46	20s24	1n 0	22s50	0n23	19s12	2n 8	1s23	0n46	20n25

Julian Day Number = 2532322.5, Delta T = 185.17 sec
 Ecliptic obliquity = 23°24'29", Nutation = - 0°00'03", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°49'52", Lahiri = 26°56'52"

ASTRODIENST EPHEMERIS for the year 2221

geocentric

MAY 2221

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 34 52	10♌28'01	23♌48	23°R54	4♏10	7°R 1	8°R 8	4°R44	4°R 4	10♏53	5°R44	15♏38	14♏21	29♏3	16♏31	T 1
W 2	14 38 48	11°26'22	7♏15	23°Y43	5°23	6♏50	8♏7	4♏40	4♏2	10°55	5♏43	15°38	14°18	29°10	16°34	W 2
T 3	14 42 45	12°24'41	20°27	23°37	6°36	6°38	8°6	4°36	4°1	10°57	5°41	15°R39	14°15	29°17	16°38	T 3
F 4	14 46 41	13°22'58	3♏25	23°D37	7°50	6°26	8°4	4°32	3°59	10°59	5°40	15°37	14°11	29°23	16°41	F 4
S 5	14 50 38	14°21'13	16°11	23°41	9°3	6°13	8°2	4°28	3°57	11°1	5°39	15°33	14°8	29°30	16°44	S 5
S 6	14 54 34	15°19'26	28°47	23°49	10°16	5°59	8°0	4°24	3°55	11°3	5°38	15°27	14°5	29°37	16°47	S 6
M 7	14 58 31	16°17'37	11♏13	24°3	11°28	5°44	7°58	4°20	3°53	11°5	5°37	15°18	14°2	29°43	16°51	M 7
T 8	15 2 28	17°15'47	23°30	24°21	12°41	5°29	7°56	4°16	3°52	11°7	5°35	15°7	13°59	29°50	16°54	T 8
W 9	15 6 24	18°13'55	5♏38	24°43	13°54	5°13	7°53	4°11	3°50	11°9	5°34	14°55	13°56	29°57	16°57	W 9
T 10	15 10 21	19°12'01	17°39	25°10	15°7	4°57	7°51	4°7	3°49	11°11	5°33	14°44	13°52	0♏4	17°0	T 10
F 11	15 14 17	20°10'06	29°34	25°41	16°20	4°40	7°48	4°3	3°47	11°13	5°32	14°33	13°49	0°10	17°3	F 11
S 12	15 18 14	21°8'10	11♏26	26°16	17°33	4°22	7°45	3°59	3°45	11°15	5°31	14°25	13°46	0°17	17°6	S 12
S 13	15 22 10	22°6'11	23°17	26°55	18°45	4°4	7°42	3°54	3°44	11°18	5°30	14°18	13°43	0°24	17°9	S 13
M14	15 26 7	23°4'12	5♏12	27°38	19°58	3°46	7°38	3°50	3°43	11°20	5°29	14°15	13°40	0°30	17°12	M14
T 15	15 30 3	24°2'11	17°15	28°25	21°11	3°27	7°35	3°46	3°41	11°22	5°28	14°13	13°37	0°37	17°16	T 15
W16	15 34 0	25°0'09	29°31	29°14	22°23	3°7	7°31	3°41	3°40	11°24	5°27	14°D13	13°33	0°44	17°19	W16
T 17	15 37 57	25°58'06	12♏5	0♏8	23°36	2°48	7°27	3°37	3°39	11°26	5°26	14°R13	13°30	0°51	17°21	T 17
F 18	15 41 53	26°56'01	25°2	1°4	24°48	2°27	7°23	3°32	3°37	11°28	5°25	14°13	13°27	0°57	17°24	F 18
S 19	15 45 50	27°53'55	8♏26	2°4	26°1	2°7	7°19	3°28	3°36	11°31	5°25	14°11	13°24	1°4	17°27	S 19
S 20	15 49 46	28°51'48	22°19	3°6	27°13	1°46	7°14	3°24	3°35	11°33	5°24	14°6	13°21	1°11	17°30	S 20
M21	15 53 43	29°49'39	6♏40	4°12	28°25	1°25	7°10	3°19	3°34	11°35	5°23	13°59	13°17	1°17	17°33	M21
T 22	15 57 39	0♏47'30	21°25	5°20	29°38	1°4	7°5	3°15	3°33	11°37	5°22	13°50	13°14	1°24	17°36	T 22
W23	16 1 36	1°45'19	6♏27	6°31	0♏50	0°43	7°0	3°10	3°32	11°39	5°21	13°39	13°11	1°31	17°39	W23
T 24	16 5 32	2°43'06	21°36	7°45	2°2	0°21	6°55	3°6	3°31	11°42	5°21	13°29	13°8	1°38	17°41	T 24
F 25	16 9 29	3°40'53	6♏42	9°1	3°14	29♏59	6°50	3°1	3°30	11°44	5°20	13°19	13°5	1°44	17°44	F 25
S 26	16 13 26	4°38'37	21°35	10°20	4°27	29°38	6°45	2°57	3°29	11°46	5°19	13°12	13°2	1°51	17°47	S 26
S 27	16 17 22	5°36'21	6♏8	11°42	5°39	29°17	6°39	2°52	3°28	11°48	5°19	13°7	12°58	1°58	17°50	S 27
M28	16 21 19	6°34'02	20°18	13°6	6°51	28°56	6°34	2°48	3°28	11°51	5°18	13°5	12°55	2°4	17°52	M28
T 29	16 25 15	7°31'42	4♏3	14°33	8°3	28°35	6°28	2°43	3°27	11°53	5°18	13°4	12°52	2°11	17°55	T 29
W30	16 29 12	8°29'20	17°26	16°2	9°15	28°14	6°22	2°39	3°26	11°55	5°17	13°4	12°49	2°18	17°57	W30
T 31	16 33 8	9♏26'57	0♏29	17♏33	10♏26	27♏53	6♏16	2♏34	3♏26	11♏57	5♏16	13♏4	12♏46	2♏25	18♏0	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	14n57	11n46	1s54	8n16	1s4	21n29	0n33	21s22	0n5	22s48	0n21	18s54	2n11	0s55	0n46	20n33
W 2	15 15	8 9	0 45	7 59	1 19	21 45	0 35	21 23	0 3	22 49	0 21	18 53	2 11	0 54	0 46	20 34
T 3	15 33	4 11	0n26	7 44	1 32	22 0	0 38	21 23	0 0	22 49	0 21	18 53	2 11	0 54	0 45	20 34
F 4	15 50	0 5	1 34	7 31	1 45	22 15	0 41	21 24	0s3	22 49	0 21	18 52	2 11	0 53	0 45	20 34
S 5	16 7	3s58	2 36	7 21	1 58	22 29	0 43	21 24	0 5	22 49	0 21	18 51	2 12	0 52	0 45	20 35
S 6	16 25	7 46	3 29	7 14	2 9	22 43	0 46	21 24	0 8	22 49	0 21	18 50	2 12	0 52	0 45	20 35
M 7	16 41	11 11	4 12	7 9	2 19	22 56	0 48	21 24	0 11	22 49	0 21	18 50	2 12	0 51	0 45	20 35
T 8	16 58	14 4	4 42	7 7	2 29	23 8	0 51	21 24	0 13	22 50	0 21	18 49	2 12	0 50	0 45	20 35
W 9	17 14	16 19	4 59	7 7	2 37	23 19	0 54	21 24	0 16	22 50	0 21	18 48	2 12	0 50	0 45	20 36
T 10	17 30	17 49	5 2	7 10	2 45	23 30	0 56	21 24	0 19	22 50	0 20	18 47	2 12	0 49	0 45	20 36
F 11	17 46	18 32	4 53	7 15	2 52	23 41	0 59	21 24	0 22	22 50	0 20	18 46	2 12	0 49	0 45	20 36
S 12	18 1	18 26	4 30	7 22	2 58	23 50	1 1	21 24	0 25	22 51	0 20	18 46	2 12	0 48	0 45	20 37
S 13	18 16	17 31	3 56	7 31	3 3	23 59	1 3	21 23	0 28	22 51	0 20	18 45	2 12	0 47	0 45	20 37
M14	18 31	15 50	3 12	7 42	3 8	24 7	1 6	21 23	0 31	22 51	0 20	18 44	2 12	0 47	0 45	20 37
T 15	18 45	13 27	2 18	7 55	3 11	24 15	1 8	21 22	0 33	22 51	0 20	18 43	2 12	0 46	0 45	20 38
W16	19 0	10 25	1 17	8 10	3 14	24 22	1 11	21 21	0 36	22 52	0 20	18 42	2 12	0 46	0 45	20 38
T 17	19 13	6 51	0 11	8 26	3 16	24 28	1 13	21 20	0 39	22 52	0 20	18 42	2 12	0 45	0 45	20 38
F 18	19 27	2 51	0s57	8 44	3 18	24 33	1 15	21 19	0 42	22 52	0 20	18 41	2 12	0 45	0 45	20 39
S 19	19 40	1n26	2 5	9 4	3 18	24 38	1 17	21 18	0 45	22 53	0 20	18 40	2 12	0 45	0 45	20 39
S 20	19 53	5 47	3 7	9 26	3 18	24 42	1 19	21 17	0 48	22 53	0 20	18 39	2 12	0 44	0 45	20 39
M21	20 5	9 56	4 0	9 48	3 17	24 45	1 22	21 15	0 51	22 53	0 20	18 38	2 11	0 44	0 45	20 39
T 22	20 17	13 36	4 39	10 12	3 16	24 48	1 24	21 14	0 54	22 54	0 20	18 38	2 11	0 43	0 45	20 40
W23	20 29	16 27	4 59	10 37	3 14	24 50	1 26	21 13	0 57	22 54	0 19	18 37	2 11	0 43	0 45	20 40
T 24	20 41	18 11	4 58	11 4	3 11	24 51	1 28	21 11	1 0	22 54	0 19	18 36	2 11	0 43	0 45	20 40
F 25	20 52	18 38	4 37	11 31	3 7	24 52	1 30	21 9	1 3	22 55	0 19	18 35	2 11	0 42	0 45	20 41
S 26	21 2	17 47	3 57	12 0	3 3	24 51	1 31	21 8	1 6	22 55	0 19	18 34	2 11	0 42	0 45	20 41
S 27	21 13	15 46	3 2	12 29	2 59	24 50	1 33	21 6	1 9	22 55	0 19	18 34	2 11	0 42	0 45	20 41
M28	21 23	12 51	1 57	12 59	2 54	24 49	1 35	21 4	1 12	22 56	0 19	18 33	2 11	0 42	0 45	20 42
T 29	21 32	9 16	0 48	13 30	2 48	24 46	1 37	21 2	1 15	22 56	0 19	18 32	2 11	0 41	0 45	20 42
W30	21 41	5 19	0n23	14 2	2 42	24 43	1 38	21 0	1 18	22 56	0 19	18 31	2 11	0 41	0 44	20 42
T 31	21n50	1n12	1n31	14n34	2s35	24n40	1n40	20s58	1s21	22s57	0n19	18s30	2n11	0s41	0n44	20n43

Julian Day Number = 2532383.5, Delta T = 185.35 sec
 Ecliptic obliquity = 23°24'29, Nutation = - 0°00'06, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°50'00, Lahiri = 26°57'01

ASTRODIENST EPHEMERIS for the year 2221

geocentric

JUNE 2221

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 37 5	10 ^{II} 24'33	13 [♈] 15	19 [♉] 7	11 [♊] 38	27 [♋] R33	6 [♌] R10	2 [♍] R30	3 [♎] R25	12 [♏] II 0	5 [♐] R16	13 [♑] R 1	12 [♒] 43	2 [♓] 31	18 [♈] 2	F 1
S 2	16 41 1	11°22'07	25°47	20°43	12°50	27 [♋] 13	6 [♌] 4	2 [♍] 26	3 [♎] 25	12° 2	5 [♐] 16	12 [♑] 56	12°39	2°38	18° 5	S 2
S 3	16 44 58	12°19'39	8 [♈] 9	22°22	14° 2	26°53	5°58	2°21	3°24	12° 4	5°15	12°48	12°36	2°45	18° 7	S 3
M 4	16 48 55	13°17'11	20°21	24° 3	15°13	26°34	5°51	2°17	3°24	12° 6	5°15	12°38	12°33	2°51	18° 9	M 4
T 5	16 52 51	14°14'41	2 [♊] 27	25°47	16°25	26°15	5°45	2°13	3°23	12° 9	5°14	12°25	12°30	2°58	18°12	T 5
W 6	16 56 48	15°12'11	14°27	27°32	17°37	25°57	5°38	2° 8	3°23	12°11	5°14	12°11	12°27	3° 5	18°14	W 6
T 7	17 0 44	16° 9'39	26°22	29°21	18°48	25°39	5°31	2° 4	3°23	12°13	5°14	11°58	12°23	3°12	18°16	T 7
F 8	17 4 41	17° 7'06	8 [♈] 15	1 [♉] 11	19°59	25°21	5°24	2° 0	3°23	12°15	5°13	11°45	12°20	3°18	18°18	F 8
S 9	17 8 37	18° 4'33	20° 6	3° 4	21°11	25° 5	5°17	1°56	3°23	12°18	5°13	11°35	12°17	3°25	18°21	S 9
S 10	17 12 34	19° 1'58	1 [♈] 58	4°59	22°22	24°49	5°10	1°51	3°23	12°20	5°13	11°27	12°14	3°32	18°23	S 10
M 11	17 16 30	19°59'23	13°53	6°57	23°33	24°33	5° 3	1°47	3°D23	12°22	5°13	11°22	12°11	3°38	18°25	M 11
T 12	17 20 27	20°56'48	25°57	8°56	24°44	24°18	4°56	1°43	3°23	12°24	5°13	11°19	12° 8	3°45	18°27	T 12
W 13	17 24 24	21°54'11	8 [♈] 12	10°58	25°56	24° 4	4°49	1°39	3°23	12°26	5°13	11°D18	12° 4	3°52	18°29	W 13
T 14	17 28 20	22°51'34	20°44	13° 2	27° 7	23°51	4°42	1°35	3°23	12°29	5°13	11°R18	12° 1	3°59	18°31	T 14
F 15	17 32 17	23°48'57	3 [♉] 38	15° 7	28°18	23°38	4°34	1°31	3°23	12°31	5°13	11°18	11°58	4° 5	18°33	F 15
S 16	17 36 13	24°46'19	16°57	17°14	29°29	23°26	4°27	1°27	3°23	12°33	5°D13	11°16	11°55	4°12	18°35	S 16
S 17	17 40 10	25°43'41	0 [♈] 45	19°22	0 [♉] 39	23°15	4°19	1°23	3°24	12°35	5°13	11°13	11°52	4°19	18°36	S 17
M 18	17 44 6	26°41'02	15° 3	21°32	1°50	23° 5	4°12	1°19	3°24	12°37	5°13	11° 6	11°48	4°25	18°38	M 18
T 19	17 48 3	27°38'23	29°47	23°43	3° 1	22°55	4° 4	1°16	3°24	12°40	5°13	10°58	11°45	4°32	18°40	T 19
W 20	17 51 59	28°35'43	14 [♉] 52	25°54	4°12	22°46	3°57	1°12	3°25	12°42	5°13	10°48	11°42	4°39	18°42	W 20
T 21	17 55 56	29°33'03	0 [♈] 9	28° 6	5°22	22°38	3°49	1° 8	3°25	12°44	5°13	10°38	11°39	4°46	18°43	T 21
F 22	17 59 53	0 [♈] 30'22	15°26	0 [♈] 18	6°33	22°31	3°42	1° 5	3°26	12°46	5°13	10°29	11°36	4°52	18°45	F 22
S 23	18 3 49	1°27'41	0 [♉] 32	2°29	7°43	22°25	3°34	1° 1	3°27	12°48	5°13	10°22	11°33	4°59	18°46	S 23
S 24	18 7 46	2°24'59	15°19	4°41	8°54	22°19	3°26	0°58	3°27	12°50	5°14	10°17	11°29	5° 6	18°48	S 24
M 25	18 11 42	3°22'16	29°40	6°52	10° 4	22°14	3°19	0°54	3°28	12°53	5°14	10°15	11°26	5°12	18°49	M 25
T 26	18 15 39	4°19'33	13 [♉] 34	9° 2	11°14	22°11	3°11	0°51	3°29	12°55	5°14	10°D15	11°23	5°19	18°51	T 26
W 27	18 19 35	5°16'49	27° 1	11°10	12°24	22° 8	3° 3	0°47	3°30	12°57	5°15	10°15	11°20	5°26	18°52	W 27
T 28	18 23 32	6°14'04	10 [♈] 5	13°18	13°34	22° 6	2°55	0°44	3°30	12°59	5°15	10°R15	11°17	5°33	18°53	T 28
F 29	18 27 28	7°11'18	22°47	15°24	14°44	22° 4	2°48	0°41	3°31	13° 1	5°16	10°14	11°14	5°39	18°55	F 29
S 30	18 31 25	8° [♈] 8'32	5 [♈] 14	17 [♈] 28	15 [♈] 54	22°D 4	2 [♈] 40	0 [♈] 38	3 [♈] 32	13 [♈] II 3	5 [♈] 16	10 [♈] 11	11 [♈] 10	5 [♈] 36	18 [♈] 56	S 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	21n59	2s53	2n32	15n 7	2s27	24n35	1n42	20s57	1s24	22s57	0n19	18s30	2n11	0s41	0n44	20n43	1s30	13n14	16n43	6n40	6n47	18s33	8n48	1n52	
S 2	22 7	6 46	3 25	15 40	2 20	24 30	1 43	20 55	1 26	22 58	0 19	18 29	2 11	0 41	0 44	20 43	1 30	13 14	16 42	6 42	6 48	18 33	8 49	1 52	
S 3	22 15	10 18	4 7	16 13	2 11	24 24	1 44	20 53	1 29	22 58	0 18	18 28	2 11	0 40	0 44	20 43	1 30	13 14	16 42	6 45	6 49	18 33	8 50	1 52	
M 4	22 22	13 21	4 38	16 47	2 3	24 17	1 46	20 51	1 32	22 58	0 18	18 27	2 11	0 40	0 44	20 44	1 30	13 13	16 41	6 49	6 51	18 33	8 50	1 52	
T 5	22 29	15 48	4 55	17 20	1 54	24 10	1 47	20 49	1 34	22 59	0 18	18 27	2 10	0 40	0 44	20 44	1 30	13 13	16 41	6 54	6 52	18 33	8 51	1 52	
W 6	22 35	17 33	4 59	17 54	1 44	24 2	1 48	20 47	1 37	22 59	0 18	18 26	2 10	0 40	0 44	20 44	1 30	13 13	16 40	6 59	6 53	18 33	8 52	1 52	
T 7	22 41	18 31	4 50	18 27	1 35	23 54	1 49	20 45	1 39	23 0	0 18	18 25	2 10	0 40	0 44	20 45	1 30	13 13	16 40	7 4	6 54	18 34	8 53	1 52	
F 8	22 47	18 41	4 29	19 0	1 24	23 44	1 50	20 44	1 42	23 0	0 18	18 24	2 10	0 40	0 44	20 45	1 30	13 12	16 39	7 9	6 55	18 34	8 54	1 52	
S 9	22 52	18 1	3 56	19 32	1 14	23 34	1 51	20 42	1 44	23 0	0 18	18 24	2 10	0 40	0 44	20 45	1 30	13 12	16 39	7 13	6 57	18 34	8 55	1 52	
S 10	22 57	16 35	3 12	20 4	1 3	23 24	1 52	20 40	1 47	23 1	0 18	18 23	2 10	0 40	0 44	20 46	1 30	13 11	16 38	7 16	6 58	18 34	8 56	1 52	
M11	23 2	14 24	2 20	20 35	0 53	23 13	1 53	20 39	1 49	23 1	0 18	18 22	2 10	0 40	0 44	20 46	1 30	13 11	16 38	7 18	6 59	18 34	8 56	1 52	
T 12	23 6	11 35	1 20	21 4	0 42	23 1	1 54	20 37	1 51	23 2	0 17	18 22	2 10	0 40	0 44	20 46	1 30	13 11	16 38	7 19	7 0	18 34	8 57	1 52	
W13	23 10	8 14	0 16	21 33	0 31	22 48	1 54	20 36	1 54	23 2	0 17	18 21	2 10	0 40	0 44	20 46	1 30	13 10	16 37	7 19	7 1	18 34	8 58	1 52	
T 14	23 13	4 26	0s50	22 0	0 20	22 35	1 55	20 35	1 56	23 2	0 17	18 20	2 9	0 40	0 44	20 47	1 30	13 10	16 37	7 19	7 3	18 35	8 59	1 52	
F 15	23 16	0 20	1 55	22 26	0 9	22 22	1 55	20 34	1 58	23 3	0 17	18 20	2 9	0 40	0 44	20 47	1 30	13 9	16 36	7 19	7 4	18 35	9 0	1 52	
S 16	23 18	3n55	2 57	22 50	0n 2	22 7	1 56	20 32	2 0	23 3	0 17	18 19	2 9	0 41	0 44	20 47	1 30	13 9	16 36	7 20	7 5	18 35	9 0	1 52	
S 17	23 20	8 7	3 50	23 12	0 13	21 52	1 56	20 32	2 2	23 3	0 17	18 18	2 9	0 41	0 44	20 48	1 30	13 8	16 35	7 21	7 6	18 35	9 1	1 53	
M18	23 22	12 0	4 32	23 32	0 23	21 37	1 56	20 31	2 4	23 4	0 17	18 18	2 9	0 41	0 44	20 48	1 30	13 8	16 35	7 23	7 7	18 35	9 2	1 53	
T 19	23 23	15 15	4 56	23 49	0 33	21 21	1 57	20 30	2 6	23 4	0 17	18 17	2 9	0 41	0 44	20 48	1 30	13 8	16 34	7 27	7 9	18 35	9 2	1 53	
W20	23 24	17 34	5 1	24 4	0 43	21 4	1 57	20 30	2 7	23 4	0 16	18 17	2 8	0 41	0 44	20 48	1 30	13 7	16 34	7 30	7 10	18 35	9 3	1 53	
T 21	23 24	18 40	4 45	24 16	0 52	20 47	1 57	20 29	2 9	23 5	0 16	18 16	2 8	0 42	0 44	20 49	1 30	13 6	16 33	7 34	7 11	18 35	9 4	1 53	
F 22	23 24	18 24	4 8	24 26	1 1	20 29	1 56	20 29	2 11	23 5	0 16	18 15	2 8	0 42	0 43	20 49	1 30	13 6	16 33	7 38	7 12	18 36	9 4	1 53	
S 23	23 24	16 51	3 14	24 33	1 9	20 11	1 56	20 29	2 12	23 6	0 16	18 15	2 8	0 42	0 43	20 49	1 30	13 5	16 32	7 40	7 14	18 36	9 5	1 53	
S 24	23 23	14 11	2 9	24 37	1 17	19 53	1 56	20 29	2 14	23 6	0 16	18 14	2 8	0 42	0 43	20 49	1 30	13 5	16 32	7 42	7 15	18 36	9 6	1 53	
M25	23 22	10 42	0 56	24 38	1 24	19 33	1 56	20 29	2 16	23 6	0 16	18 14	2 8	0 43	0 43	20 50	1 30	13 4	16 31	7 43	7 16	18 36	9 6	1 53	
T 26	23 20	6 43	0n18	24 36	1 30	19 14	1 55	20 30	2 17	23 7	0 16	18 13	2 7	0 43	0 43	20 50	1 30	13 4	16 31	7 43	7 17	18 36	9 7	1 53	
W27	23 18	2 32	1 28	24 32	1 36	18 53	1 55	20 30	2 18	23 7	0 16	18 13	2 7	0 43	0 43	20 50	1 30	13 3	16 30	7 43	7 18	18 36	9 7	1 53	
T 28	23 16	1s39	2 32	24 25	1 41	18 33	1 54	20 31	2 20	23 7	0 15	18 12	2 7	0 44	0 43	20 50	1 30	13 2	16 30	7 43	7 20	18 36	9 8	1 53	
F 29	23 13	5 39	3 26	24 15	1 45	18 12	1 53	20 32	2 21	23 7	0 15	18 12	2 7	0 44	0 43	20 51	1 30	13 2	16 29	7 43	7 21	18 36	9 8	1 53	
S 30	23n 9	9s19	4n10	24n 3	1n48	17n50	1n52	20s33	2s22	23s 8	0n15	18s11	2n 7	0s45	0n43	20n51	1s30	13n 1	16n29	7n44	7n22	18s36	9n 9	1n53	

ASTRODIENST EPHEMERIS for the year 2221

geocentric

JULY 2221

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 22	9°54'46	17°17'27	19°53'31	17°18'4	22°18'4	2°R33	0°R35	3°33'33	13°11'5	5°17'17	10°R 5	11°17'7	5°53'53	18°17'57	S 1
M 2	18 39 18	10° 2'59	29°32'32	21°32'32	18°18'14	22° 5'5	2°32'25	0°32'32	3°35'35	13° 7'7	5°17'17	9°17'57	11° 4'4	5°59'59	18°58'58	M 2
T 3	18 43 15	11° 0'11	11°30'30	23°31'31	19°23'23	22° 7'7	2°18'18	0°29'29	3°36'36	13° 9'9	5°18'18	9°48'48	11° 1'1	6° 6'6	18°59'59	T 3
W 4	18 47 11	11°57'24	23°24'24	25°28'28	20°33'33	22°10'10	2°10'10	0°26'26	3°37'37	13°11'11	5°18'18	9°37'37	10°58'58	6°13'13	19° 0'0	W 4
T 5	18 51 8	12°54'36	5°31'16	27°23'23	21°42'42	22°14'14	2° 3'3	0°24'24	3°38'38	13°13'13	5°19'19	9°26'26	10°54'54	6°20'20	19° 1'1	T 5
F 6	18 55 4	13°51'47	17° 8'8	29°16'16	22°52'52	22°18'18	1°55'55	0°21'21	3°39'39	13°15'15	5°19'19	9°17'17	10°51'51	6°26'26	19° 2'2	F 6
S 7	18 59 1	14°48'59	29° 1'1	1°18'7	24° 1'1	22°23'23	1°48'48	0°18'18	3°41'41	13°17'17	5°20'20	9° 8'8	10°48'48	6°33'33	19° 3'3	S 7
S 8	19 2 58	15°46'11	10°55'57	2°56'56	25°10'10	22°29'29	1°41'41	0°16'16	3°42'42	13°19'19	5°21'21	9° 3'3	10°45'45	6°40'40	19° 4'4	S 8
M 9	19 6 54	16°43'23	22°59'59	4°43'43	26°19'19	22°36'36	1°33'33	0°14'14	3°44'44	13°21'21	5°22'22	8°59'59	10°42'42	6°46'46	19° 4'4	M 9
T 10	19 10 51	17°40'35	5°38'8	6°27'27	27°28'28	22°44'44	1°26'26	0°11'11	3°45'45	13°23'23	5°22'22	8°D58	10°39'39	6°53'53	19° 5'5	T 10
W 11	19 14 47	18°37'47	17°28'28	8°10'10	28°37'37	22°52'52	1°19'19	0° 9'9	3°47'47	13°25'25	5°23'23	8°58'58	10°35'35	7° 0'0	19° 6'6	W 11
T 12	19 18 44	19°34'59	0°17'3	9°51'51	29°45'45	23° 1'1	1°12'12	0° 7'7	3°48'48	13°27'27	5°24'24	8°59'59	10°32'32	7° 6'6	19° 6'6	T 12
F 13	19 22 40	20°32'12	12°57'57	11°29'29	0°17'54	23°10'10	1° 5'5	0° 5'5	3°50'50	13°29'29	5°25'25	9° 0'0	10°29'29	7°13'13	19° 7'7	F 13
S 14	19 26 37	21°29'25	26°13'13	13° 6'6	2° 3'3	23°21'21	0°59'59	0° 3'3	3°52'52	13°31'31	5°26'26	9°R 0	10°26'26	7°20'20	19° 7'7	S 14
S 15	19 30 33	22°26'39	9°35'55	14°40'40	3°11'11	23°32'32	0°52'52	0° 1'1	3°53'53	13°33'33	5°27'27	8°59'59	10°23'23	7°27'27	19° 8'8	S 15
M 16	19 34 30	23°23'53	24° 3'3	16°13'13	4°19'19	23°43'43	0°45'45	29°18'59	3°55'55	13°34'34	5°28'28	8°55'55	10°20'20	7°33'33	19° 8'8	M 16
T 17	19 38 27	24°21'08	8°11'36	17°43'43	5°27'27	23°56'56	0°39'39	29°58'58	3°57'57	13°36'36	5°29'29	8°51'51	10°16'16	7°40'40	19° 8'8	T 17
W 18	19 42 23	25°18'23	23°30'30	19°11'11	6°35'35	24° 9'9	0°32'32	29°56'56	3°59'59	13°38'38	5°30'30	8°45'45	10°13'13	7°47'47	19° 9'9	W 18
T 19	19 46 20	26°15'39	8°53'38	20°37'37	7°43'43	24°22'22	0°26'26	29°54'54	4° 1'1	13°40'40	5°31'31	8°38'38	10°10'10	7°53'53	19° 9'9	T 19
F 20	19 50 16	27°12'55	23°50'50	22° 1'1	8°51'51	24°37'37	0°20'20	29°53'53	4° 3'3	13°42'42	5°32'32	8°33'33	10° 7'7	8° 0'0	19° 9'9	F 20
S 21	19 54 13	28°10'12	8°15'56	23°23'23	9°59'59	24°52'52	0°14'14	29°52'52	4° 5'5	13°43'43	5°33'33	8°28'28	10° 4'4	8° 7'7	19° 9'9	S 21
S 22	19 58 9	29° 7'29	23°47'47	24°42'42	11° 7'7	25° 7'7	0° 8'8	29°50'50	4° 7'7	13°45'45	5°34'34	8°26'26	10° 0'0	8°14'14	19° 9'9	S 22
M 23	20 2 6	0°14'46	8°17'15	25°59'59	12°14'14	25°24'24	0° 2'2	29°49'49	4° 9'9	13°47'47	5°35'35	8°D25	9°57'57	8°20'20	19°R 9	M 23
T 24	20 6 2	1° 2'03	22°17'17	27°14'14	13°21'21	25°40'40	29°57'57	29°48'48	4°11'11	13°48'48	5°36'36	8°26'26	9°54'54	8°27'27	19° 9'9	T 24
W 25	20 9 59	1°59'20	5°51'51	28°27'27	14°28'28	25°58'58	29°51'51	29°47'47	4°13'13	13°50'50	5°38'38	8°27'27	9°51'51	8°34'34	19° 9'9	W 25
T 26	20 13 56	2°56'38	19° 0'0	29°37'37	15°35'35	26°16'16	29°46'46	29°46'46	4°15'15	13°52'52	5°39'39	8°28'28	9°48'48	8°40'40	19° 9'9	T 26
F 27	20 17 52	3°53'56	1°14'45	0°17'44	16°42'42	26°35'35	29°40'40	29°46'46	4°18'18	13°53'53	5°40'40	8°R29	9°45'45	8°47'47	19° 9'9	F 27
S 28	20 21 49	4°51'14	14°12'12	1°49'49	17°49'49	26°54'54	29°35'35	29°45'45	4°20'20	13°55'55	5°42'42	8°29'29	9°41'41	8°54'54	19° 8'8	S 28
S 29	20 25 45	5°48'33	26°24'24	2°51'51	18°56'56	27°13'13	29°30'30	29°44'44	4°22'42	13°56'56	5°43'43	8°27'27	9°38'38	9° 1'1	19° 8'8	S 29
M 30	20 29 42	6°45'52	8°32'25	3°50'50	20° 2'2	27°34'34	29°26'26	29°44'44	4°25'45	13°58'58	5°44'44	8°24'24	9°35'35	9° 7'7	19° 8'8	M 30
T 31	20 33 38	7°14'31	20°32'21	4°17'47	21°17'8	27°18'54	29°57'21	29°18'43	4°27'27	13°59'59	5°46'46	8°19'19	9°17'32	9°14'14	19°17'7	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23n 6	12s31	4n41	23n49	1n51	17n28	1n51	20s34	2s24	23s 8	0n15	18s11	2n 7	0s45	0n43	20n51
M 2	23 2 15	9 4	5 23	23 32	1 52	17 6	1 50	20 36	2 25	23 8	0 15	18 11	2 6	0 46	0 43	20 51
T 3	22 57 17	7 5	4 23	14 1	54 16	43 1	49 20	37 2	26 23	9 0	15 18	10 2	6 0	46 0	43 20	52 1
W 4	22 52 18	20 4	5 22	53 1	54 16	20 1	48 20	39 2	27 23	9 0	15 18	10 2	6 0	47 0	43 20	52 1
T 5	22 47 18	44 4	34 22	31 1	54 15	56 1	46 20	41 2	28 23	9 0	14 18	9 2	6 0	47 0	43 20	52 1
F 6	22 41 18	19 4	1 22	7 1	53 15	32 1	45 20	43 2	29 23	9 0	14 18	9 2	6 0	48 0	43 20	52 1
S 7	22 35 17	6 3	17 21	41 1	51 15	8 1	43 20	45 2	30 23	10 0	14 18	9 2	5 0	48 0	43 20	52 1
S 8	22 29 15	8 2	25 21	14 1	49 14	43 1	42 20	48 2	31 23	10 0	14 18	8 2	5 0	49 0	43 20	53 1
M 9	22 22 12	30 1	25 20	46 1	46 14	18 1	40 20	50 2	32 23	10 0	14 18	8 2	5 0	50 0	43 20	53 1
T 10	22 15 9	18 0	21 20	17 1	42 13	52 1	38 20	53 2	32 23	10 0	14 18	8 2	5 0	50 0	43 20	53 1
W 11	22 7 5	39 0	s46 19	46 1	38 13	27 1	36 20	56 2	33 23	11 0	14 18	8 2	4 0	51 0	43 20	53 1
T 12	21 59 1	41 1	51 19	15 1	33 13	1 1	34 20	59 2	34 23	11 0	13 18	7 2	4 0	51 0	43 20	54 1
F 13	21 50 2n	27 2	53 18	43 1	28 12	34 1	32 21	2 2	35 23	11 0	13 18	7 2	4 0	52 0	43 20	54 1
S 14	21 42 6	35 3	47 18	10 1	22 12	8 1	30 21	5 2	35 23	11 0	13 18	7 2	4 0	53 0	43 20	54 1
S 15	21 33 10	29 4	30 17	37 1	16 11	41 1	27 21	9 2	36 23	11 0	13 18	7 2	4 0	54 0	43 20	54 1
M 16	21 23 13	56 4	5 19	17 3	1 9	11 14	1 25	21 12	2 37	23 12	0 13	18 7	2 3	0 54	0 42	20 54
T 17	21 13 16	37 5	9 16	29 1	2 10	47 1	22 21	16 2	37 23	12 0	13 18	7 2	3 0	55 0	42 20	55 1
W 18	21 3 18	16 4	59 15	54 0	54 10	19 1	20 21	20 2	38 23	12 0	12 18	6 2	3 0	56 0	42 20	55 1
T 19	20 52 18	40 4	28 15	19 0	46 9	51 1	17 21	24 2	38 23	12 0	12 18	6 2	3 0	57 0	42 20	55 1
F 20	20 41 17	44 3	38 14	44 0	37 9	23 1	14 21	28 2	39 23	12 0	12 18	6 2	2 0	57 0	42 20	55 1
S 21	20 30 15	32 2	33 14	9 0	28 8	55 1	11 21	32 2	39 23	12 0	12 18	6 2	2 0	58 0	42 20	55 1
S 22	20 18 12	20 1	19 13	34 0	19 8	26 1	8 21	36 2	39 23	13 0	12 18	6 2	2 0	59 0	42 20	55 1
M 23	20 6 8	27 0	1 12	59 0	10 7	58 1	5 21	40 2	40 23	13 0	12 18	6 2	2 0	1 0	0 42	20 56
T 24	19 54 4	12 1n	15 12	24 0s	0 7	29 1	2 21	45 2	40 23	13 0	12 18	6 2	1 0	1 0	0 42	20 56
W 25	19 41 0s	7 2	24 11	50 0	11 7	0 58	21 49	2	40 23	13 0	11 18	6 2	1 0	1 2	0 42	20 56
T 26	19 29 4	18 3	23 11	16 0	21 6	31 0	55 21	54 2	41 23	13 0	11 18	6 2	1 0	1 3	0 42	20 56
F 27	19 15 8	9 4	10 10	42 0	32 6	2 0	51 21	58 2	41 23	13 0	11 18	6 2	1 0	1 4	0 42	20 56
S 28	19 2 11	33 4	45 10	8 0	43 5	33 0	48 22	3 2	41 23	13 0	11 18	6 2	1 0	1 5	0 42	20 56
S 29	18 48 14	22 5	5 9	35 0	55 5	3 0	44 22	8 2	41 23	14 0	11 18	7 2	0 1	6 0	0 42	20 57
M 30	18 33 16	32 5	12 9	3 1	6 4	34 0	40 22	13 2	42 23	14 0	11 18	7 2	0 1	7 0	0 42	20 57
T 31	18n19	17s59	5n 5	8n32	1s18	4n 4	0n36	22s18	2s42	23s14	0n10	18s 7	2n 0	1s 8	0n42	20n57

Julian Day Number = 2532444.5, Delta T = 185.54 sec
 Ecliptic obliquity = 23°24'28", Nutation = - 0°00'05", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°50'09", Lahiri = 26°57'09"

ASTRODIENST EPHEMERIS for the year 2221

geocentric

AUGUST 2221

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 37 35	8♌40'32	2♌12	5♍40	22♍14	28♍16	29°R17	29°R43	4♌30	14♌1	5♌47	8°R14	9♍29	9♌21	19°R 7	W 1
T 2	20 41 31	9°37'52	14° 4	6°30	23°20	28°37	29°12	29°43	4°32	14° 2	5°49	8♍9	9°26	9°27	19°6	T 2
F 3	20 45 28	10°35'13	25°58	7°17	24°26	29° 0	29° 8	29°43	4°35	14° 4	5°50	8° 5	9°22	9°34	19° 6	F 3
S 4	20 49 25	11°32'35	7♌56	8° 0	25°31	29°22	29° 4	29°D43	4°37	14° 5	5°52	8° 1	9°19	9°41	19° 5	S 4
S 5	20 53 21	12°29'58	20° 0	8°39	26°37	29°46	29° 0	29°43	4°40	14° 6	5°53	7°59	9°16	9°47	19° 5	S 5
M 6	20 57 18	13°27'22	2♌12	9°15	27°42	0♌9	28°57	29°43	4°43	14° 8	5°55	7°D58	9°13	9°54	19° 4	M 6
T 7	21 1 14	14°24'46	14°34	9°47	28°47	0°33	28°53	29°43	4°45	14° 9	5°56	7°58	9°10	10° 1	19° 3	T 7
W 8	21 5 11	15°22'11	27° 7	10°14	29°51	0°58	28°50	29°44	4°48	14°10	5°58	7°58	9° 6	10° 8	19° 2	W 8
T 9	21 9 7	16°19'38	9♌53	10°38	0♌56	1°23	28°47	29°44	4°51	14°12	5°59	8° 0	9° 3	10°14	19° 1	T 9
F 10	21 13 4	17°17'06	22°55	10°56	2° 0	1°48	28°44	29°45	4°54	14°13	6° 1	8° 1	9° 0	10°21	19° 0	F 10
S 11	21 17 0	18°14'35	6♌15	11°10	3° 4	2°14	28°41	29°46	4°57	14°14	6° 3	8° 2	8°57	10°28	18°59	S 11
S 12	21 20 57	19°12'05	19°55	11°19	4° 8	2°40	28°38	29°46	4°59	14°15	6° 4	8°R 3	8°54	10°34	18°58	S 12
M13	21 24 53	20° 9'37	3♌55	11°R22	5°12	3° 7	28°36	29°47	5° 2	14°16	6° 6	8° 2	8°51	10°41	18°57	M13
T 14	21 28 50	21° 7'10	18°14	11°21	6°15	3°34	28°34	29°48	5° 5	14°18	6° 8	8° 1	8°47	10°48	18°56	T 14
W15	21 32 47	22° 4'45	2♌50	11°14	7°19	4° 1	28°32	29°49	5° 8	14°19	6°10	7°59	8°44	10°54	18°55	W15
T 16	21 36 43	23° 2'21	17°37	11° 2	8°22	4°29	28°30	29°50	5°11	14°20	6°11	7°58	8°41	11° 1	18°54	T 16
F 17	21 40 40	23°59'58	2♌30	10°44	9°24	4°58	28°28	29°52	5°14	14°21	6°13	7°56	8°38	11° 8	18°53	F 17
S 18	21 44 36	24°57'36	17°21	10°20	10°27	5°26	28°27	29°53	5°17	14°22	6°15	7°55	8°35	11°15	18°51	S 18
S 19	21 48 33	25°55'16	2♌1	9°52	11°29	5°55	28°25	29°54	5°21	14°23	6°17	7°D54	8°32	11°21	18°50	S 19
M20	21 52 29	26°52'57	16°25	9°18	12°31	6°24	28°24	29°56	5°24	14°24	6°19	7°54	8°28	11°28	18°48	M20
T 21	21 56 26	27°50'39	0♌27	8°40	13°33	6°54	28°23	29°58	5°27	14°25	6°20	7°55	8°25	11°35	18°47	T 21
W22	22 0 22	28°48'22	14° 4	7°57	14°34	7°24	28°22	29°59	5°30	14°25	6°22	7°55	8°22	11°41	18°46	W22
T 23	22 4 19	29°46'06	27°17	7°11	15°35	7°54	28°22	0♌1	5°33	14°26	6°24	7°56	8°19	11°48	18°44	T 23
F 24	22 8 16	0♌43'52	10♌7	6°21	16°36	8°25	28°22	0° 3	5°37	14°27	6°26	7°57	8°16	11°55	18°42	F 24
S 25	22 12 12	1°41'38	22°36	5°30	17°36	8°56	28°21	0° 5	5°40	14°28	6°28	7°57	8°12	12° 1	18°41	S 25
S 26	22 16 9	2°39'26	4♌50	4°37	18°36	9°27	28°D21	0° 7	5°43	14°29	6°30	7°R57	8° 9	12° 8	18°39	S 26
M27	22 20 5	3°37'14	16°52	3°44	19°36	9°59	28°22	0° 9	5°47	14°29	6°32	7°57	8° 6	12°15	18°37	M27
T 28	22 24 2	4°35'04	28°47	2°52	20°36	10°31	28°22	0°12	5°50	14°30	6°34	7°57	8° 3	12°22	18°36	T 28
W29	22 27 58	5°32'56	10♌38	2° 1	21°35	11° 3	28°22	0°14	5°53	14°31	6°36	7°57	8° 0	12°28	18°34	W29
T 30	22 31 55	6°30'48	22°31	1°14	22°33	11°36	28°23	0°17	5°57	14°31	6°38	7°56	7°57	12°35	18°32	T 30
F 31	22 35 51	7♌28'42	4♌28	0♌31	23♌31	12♌8	28♌24	0♌19	6♌0	14♌32	6♌40	7°D56	7♌53	12♌42	18♌30	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n 4	18s38	4n46	8n 1	1s30	3n34	0n32	22s23	2s42	23s14	0n10	18s 7	2n 0	1s 9	0n42	20n57
T 2	17 49	18 28	4 13	7 32	1 42	3 4	0 28	22 28	2 42	23 14	0 10	18 7	1 59	1 10	0 42	20 57
F 3	17 34	17 29	3 30	7 3	1 55	2 35	0 24	22 33	2 42	23 14	0 10	18 7	1 59	1 11	0 42	20 57
S 4	17 18	15 43	2 37	6 36	2 7	2 5	0 20	22 38	2 42	23 14	0 10	18 8	1 59	1 12	0 42	20 57
S 5	17 2	13 15	1 37	6 10	2 19	1 35	0 15	22 43	2 42	23 15	0 10	18 8	1 59	1 13	0 42	20 57
M 6	16 46	10 11	0 32	5 45	2 32	1 5	0 11	22 48	2 42	23 15	0 10	18 8	1 58	1 14	0 42	20 58
T 7	16 29	6 38	0s36	5 22	2 44	0 35	0 6	22 53	2 42	23 15	0 9	18 9	1 58	1 15	0 42	20 58
W 8	16 12	2 44	1 44	5 0	2 56	0 5	0 2	22 58	2 42	23 15	0 9	18 9	1 58	1 16	0 42	20 58
T 9	15 55	1n21	2 47	4 40	3 8	0s25	0s 3	23 4	2 42	23 15	0 9	18 9	1 58	1 17	0 42	20 58
F 10	15 38	5 27	3 43	4 22	3 20	0 55	0 8	23 9	2 42	23 15	0 9	18 10	1 57	1 18	0 42	20 58
S 11	15 20	9 21	4 29	4 7	3 31	1 25	0 13	23 14	2 42	23 15	0 9	18 10	1 57	1 20	0 42	20 58
S 12	15 3	12 52	5 0	3 53	3 42	1 55	0 18	23 19	2 42	23 15	0 9	18 10	1 57	1 21	0 42	20 58
M13	14 45	15 45	5 15	3 42	3 53	2 25	0 23	23 24	2 42	23 16	0 9	18 11	1 57	1 22	0 42	20 58
T 14	14 26	17 44	5 11	3 33	4 3	2 55	0 28	23 29	2 42	23 16	0 8	18 11	1 56	1 23	0 41	20 58
W15	14 8	18 36	4 47	3 27	4 12	3 25	0 33	23 35	2 42	23 16	0 8	18 12	1 56	1 24	0 41	20 59
T 16	13 49	18 13	4 3	3 24	4 20	3 54	0 39	23 40	2 42	23 16	0 8	18 12	1 56	1 26	0 41	20 59
F 17	13 30	16 36	3 4	3 24	4 28	3 44	0 44	23 45	2 42	23 16	0 8	18 13	1 56	1 27	0 41	20 59
S 18	13 11	13 51	1 51	3 27	4 34	4 53	0 50	23 50	2 41	23 16	0 8	18 13	1 55	1 28	0 41	20 59
S 19	12 52	10 14	0 33	3 33	4 39	5 23	0 55	23 55	2 41	23 16	0 8	18 14	1 55	1 29	0 41	20 59
M20	12 32	6 5	0n47	3 42	4 43	5 52	1 1	24 0	2 41	23 16	0 7	18 14	1 55	1 31	0 41	20 59
T 21	12 12	1 41	2 2	3 54	4 45	6 21	1 6	24 5	2 41	23 17	0 7	18 15	1 55	1 32	0 41	20 59
W22	11 52	2s40	3 7	4 9	4 46	6 51	1 12	24 9	2 41	23 17	0 7	18 15	1 54	1 33	0 41	20 59
T 23	11 32	6 45	4 1	4 27	4 45	7 19	1 18	24 14	2 40	23 17	0 7	18 16	1 54	1 34	0 41	20 59
F 24	11 12	10 23	4 41	4 48	4 42	7 48	1 24	24 19	2 40	23 17	0 7	18 17	1 54	1 36	0 41	20 59
S 25	10 52	13 28	5 6	5 11	4 37	8 17	1 30	24 23	2 40	23 17	0 7	18 17	1 54	1 37	0 41	20 59
S 26	10 31	15 53	5 17	5 37	4 30	8 45	1 36	24 28	2 40	23 17	0 7	18 18	1 53	1 38	0 41	20 59
M27	10 10	17 34	5 13	6 4	4 21	9 14	1 42	24 33	2 39	23 17	0 6	18 19	1 53	1 40	0 41	20 59
T 28	9 49	18 28	4 57	6 32	4 11	9 42	1 48	24 37	2 39	23 18	0 6	18 19	1 53	1 41	0 41	20 59
W29	9 28	18 33	4 27	7 2	3 58	10 10	1 54	24 41	2 39	23 18	0 6	18 20	1 53	1 42	0 41	20 59
T 30	9 7	17 49	3 46	7 31	3 45	10 37	2 0	24 45	2 38	23 18	0 6	18 21	1 53	1 44	0 41	20 59
F 31	8n45	16s17	2n55	8n 0	3s29	11s 5	2s 6	24s50	2s38	23s18	0n 6	18s22	1n52	1s45	0n41	20n59

Julian Day Number = 2532475.5, Delta T = 185.63 sec

Ecliptic obliquity = 23°24'29", Nutation = - 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°50'13", Lahiri = 26°57'14"

ASTRODIENST EPHEMERIS for the year 2221

geocentric

SEPTEMBER 2221

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 39 48	8♍26°37	16♋33	29°R53	24♊29	12♈41	28♈25	0♈22	6♊4	14♏33	6♊42	7♍56	7♍50	12♋48	18°R28	S 1
S 2	22 43 45	9°24'33	28°48	29♏20	25°27	13°15	28°27	0°25	6°7	14°33	6°44	7°56	7°47	12°55	18°V26	S 2
M 3	22 47 41	10°22'31	11♋14	28°55	26°24	13°48	28°28	0°27	6°10	14°34	6°46	7°R56	7°44	13°2	18°24	M 3
T 4	22 51 38	11°20'31	23°53	28°36	27°20	14°22	28°30	0°30	6°14	14°34	6°49	7°56	7°41	13°8	18°22	T 4
W 5	22 55 34	12°18'32	6♈46	28°26	28°16	14°56	28°32	0°33	6°18	14°35	6°51	7°56	7°37	13°15	18°20	W 5
T 6	22 59 31	13°16'35	19°52	28°D24	29°12	15°31	28°34	0°36	6°21	14°35	6°53	7°55	7°34	13°22	18°18	T 6
F 7	23 3 27	14°14'40	3♋13	28°30	0♏7	16°5	28°36	0°40	6°25	14°35	6°55	7°55	7°31	13°29	18°16	F 7
S 8	23 7 24	15°12'46	16°47	28°45	1°2	16°40	28°38	0°43	6°28	14°36	6°57	7°54	7°28	13°35	18°14	S 8
S 9	23 11 20	16°10'55	0♏33	29°9	1°56	17°15	28°41	0°46	6°32	14°36	6°59	7°53	7°25	13°42	18°11	S 9
M10	23 15 17	17°9'06	14°32	29°41	2°49	17°51	28°44	0°50	6°35	14°36	7°1	7°D53	7°22	13°49	18°9	M10
T 11	23 19 14	18°7'18	28°42	0♍21	3°42	18°26	28°47	0°53	6°39	14°36	7°4	7°53	7°18	13°55	18°7	T 11
W12	23 23 10	19°5'33	13♋1	1°9	4°35	19°2	28°50	0°57	6°43	14°37	7°6	7°54	7°15	14°2	18°5	W12
T 13	23 27 7	20°3'50	27°25	2°5	5°27	19°38	28°53	1°0	6°46	14°37	7°8	7°55	7°12	14°9	18°2	T 13
F 14	23 31 3	21°2'09	11♏52	3°9	6°18	20°14	28°57	1°4	6°50	14°37	7°10	7°56	7°9	14°15	18°0	F 14
S 15	23 35 0	22°0'30	26°17	4°19	7°8	20°51	29°0	1°8	6°54	14°37	7°13	7°56	7°6	14°22	17°58	S 15
S 16	23 38 56	22°58'52	10♍36	5°35	7°58	21°27	29°4	1°12	6°57	14°37	7°15	7°R57	7°3	14°29	17°55	S 16
M17	23 42 53	23°57'17	24°42	6°57	8°47	22°4	29°8	1°16	7°1	14°37	7°17	7°56	6°59	14°35	17°53	M17
T 18	23 46 49	24°55'43	8♊33	8°24	9°36	22°41	29°12	1°20	7°5	14°R37	7°19	7°55	6°56	14°42	17°50	T 18
W19	23 50 46	25°54'11	22°4	9°56	10°23	23°19	29°17	1°24	7°9	14°37	7°21	7°52	6°53	14°49	17°48	W19
T 20	23 54 42	26°52'41	5♏15	11°32	11°10	23°56	29°21	1°28	7°12	14°37	7°24	7°50	6°50	14°56	17°45	T 20
F 21	23 58 39	27°51'13	18°5	13°11	11°56	24°34	29°26	1°33	7°16	14°37	7°26	7°47	6°47	15°2	17°43	F 21
S 22	0 2 36	28°49'46	0♈36	14°53	12°41	25°12	29°31	1°37	7°20	14°37	7°28	7°44	6°43	15°9	17°40	S 22
S 23	0 6 32	29°48'21	12°51	16°37	13°26	25°50	29°36	1°41	7°24	14°37	7°31	7°42	6°40	15°16	17°38	S 23
M24	0 10 29	0♊46'58	24°54	18°23	14°9	26°28	29°41	1°46	7°27	14°37	7°33	7°41	6°37	15°22	17°35	M24
T 25	0 14 25	1°45'36	6♋49	20°11	14°51	27°7	29°46	1°51	7°31	14°36	7°35	7°D41	6°34	15°29	17°32	T 25
W26	0 18 22	2°44'16	18°40	22°0	15°33	27°45	29°52	1°55	7°35	14°36	7°37	7°42	6°31	15°36	17°30	W26
T 27	0 22 18	3°42'58	0♋33	23°49	16°13	28°24	29°57	2°0	7°39	14°36	7°40	7°44	6°28	15°42	17°27	T 27
F 28	0 26 15	4°41'42	12°32	25°39	16°52	29°3	0♋3	2°5	7°43	14°35	7°42	7°45	6°24	15°49	17°24	F 28
S 29	0 30 11	5°40'27	24°42	27°30	17°30	29°42	0°9	2°10	7°46	14°35	7°44	7°47	6°21	15°56	17°22	S 29
S 30	0 34 8	6♊39'14	7♋6	29°D20	18°M7	0♋22	0♋15	2♈15	7♊50	14°R35	7♊47	7°R47	6°M18	16♋2	17°V19	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	8n24	14s 1	1n56	8n29	3s13	11s32	2s13	24s54	2s38	23s18	0n 6	18s22	1n52	1s47	0n41	20n59
S 2	8 2 11 5	0 51	8 57	2 56	11 59	2 19	24 58	2 37	23 18	0 6	18 23	1 52	1 48	0 41	20 59	1 32
M 3	7 40 7 38	0s18	9 22	2 38	12 26	2 26	25 1	2 37	23 18	0 5	18 24	1 52	1 49	0 41	20 59	1 32
T 4	7 18 3 46	1 27	9 46	2 19	12 52	2 32	25 5	2 36	23 19	0 5	18 25	1 51	1 51	0 41	20 59	1 32
W 5	6 56 0n20	2 33	10 7	2 0	13 19	2 38	25 9	2 36	23 19	0 5	18 26	1 51	1 52	0 41	20 59	1 32
T 6	6 34 4 29	3 32	10 26	1 41	13 45	2 45	25 12	2 36	23 19	0 5	18 27	1 51	1 54	0 41	20 59	1 32
F 7	6 12 8 29	4 21	10 41	1 22	14 10	2 51	25 15	2 35	23 19	0 5	18 27	1 51	1 55	0 41	20 59	1 32
S 8	5 49 12 6	4 56	10 54	1 4	14 36	2 58	25 18	2 35	23 19	0 5	18 28	1 50	1 56	0 41	20 59	1 32
S 9	5 27 15 7	5 14	11 2	0 46	15 1	3 5	25 21	2 34	23 19	0 5	18 29	1 50	1 58	0 41	20 59	1 32
M10	5 4 17 18	5 15	11 7	0 29	15 26	3 11	25 24	2 34	23 20	0 5	18 30	1 50	1 59	0 41	20 59	1 33
T 11	4 41 18 28	4 56	11 9	0 12	15 50	3 18	25 27	2 33	23 20	0 4	18 31	1 50	2 1	0 41	20 59	1 33
W12	4 19 18 28	4 19	11 6	0n 4	16 14	3 24	25 30	2 33	23 20	0 4	18 32	1 50	2 2	0 41	20 59	1 33
T 13	3 56 17 17	3 26	11 0	0 18	16 38	3 31	25 32	2 32	23 20	0 4	18 33	1 49	2 4	0 41	20 59	1 33
F 14	3 33 14 58	2 19	10 50	0 32	17 2	3 38	25 34	2 32	23 20	0 4	18 34	1 49	2 5	0 41	20 59	1 33
S 15	3 10 11 44	1 4	10 36	0 45	17 25	3 44	25 36	2 31	23 20	0 4	18 35	1 49	2 7	0 41	20 59	1 33
S 16	2 47 7 49	0n15	10 19	0 56	17 47	3 51	25 38	2 31	23 21	0 4	18 36	1 49	2 8	0 41	20 59	1 33
M17	2 24 3 30	1 31	9 59	1 6	18 10	3 58	25 40	2 30	23 21	0 4	18 37	1 48	2 9	0 41	20 59	1 33
T 18	2 1 0s55	2 41	9 35	1 16	18 32	4 4	25 42	2 30	23 21	0 4	18 38	1 48	2 11	0 41	20 59	1 33
W19	1 38 5 11	3 40	9 8	1 24	18 53	4 11	25 43	2 29	23 21	0 3	18 39	1 48	2 12	0 41	20 59	1 33
T 20	1 14 9 5	4 26	8 38	1 31	19 14	4 18	25 44	2 28	23 21	0 3	18 40	1 48	2 14	0 41	20 59	1 33
F 21	0 51 12 27	4 57	8 5	1 36	19 35	4 24	25 46	2 28	23 21	0 3	18 41	1 48	2 15	0 41	20 59	1 33
S 22	0 28 15 9	5 12	7 30	1 41	19 55	4 31	25 46	2 27	23 21	0 3	18 42	1 47	2 17	0 41	20 59	1 33
S 23	0 5 17 7	5 14	6 53	1 45	20 15	4 37	25 47	2 27	23 22	0 3	18 43	1 47	2 18	0 41	20 59	1 33
M24	0s19 18 18	5 1	6 14	1 48	20 35	4 44	25 48	2 26	23 22	0 3	18 44	1 47	2 20	0 41	20 59	1 33
T 25	0 42 18 39	4 35	5 34	1 50	20 54	4 50	25 48	2 25	23 22	0 3	18 45	1 47	2 21	0 41	20 59	1 33
W26	1 5 18 11	3 58	4 52	1 51	21 12	4 57	25 48	2 25	23 22	0 3	18 47	1 47	2 23	0 41	20 59	1 33
T 27	1 29 16 54	3 11	4 9	1 51	21 30	5 3	25 48	2 24	23 22	0 2	18 48	1 46	2 24	0 41	20 59	1 33
F 28	1 52 14 52	2 14	3 25	1 50	21 47	5 9	25 48	2 24	23 22	0 2	18 49	1 46	2 26	0 41	20 58	1 33
S 29	2 15 12 9	1 11	2 40	1 49	22 4	5 15	25 47	2 23	23 22	0 2	18 50	1 46	2 27	0 41	20 58	1 33
S 30	2s38	8s50	0n 4	1n54	1n47	22s21	5s22	2s22	23s22	0n 2	18s51	1n46	2s29	0n41	20n58	1s33

Julian Day Number = 2532506.5, Delta T = 185.73 sec
 Ecliptic obliquity = 23°24'29", Nutation = - 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°50'17", Lahiri = 26°57'18"

ASTRODIENST EPHEMERIS for the year 2221

geocentric

OCTOBER 2221

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 38 5	7♂38'02	19♂46	1♂10	18♂43	1♂1	0♂22	2♂20	7♂54	14♂34	7♂49	7♂47	6♂15	16♂9	17♂16	M 1
T 2	0 42 1	8°36'53	2♂44	3° 0	19°17	1°41	0°28	2°25	7°58	14♂34	7°51	7♂45	6°12	16°16	17♂14	T 2
W 3	0 45 58	9°35'45	16° 0	4°49	19°50	2°21	0°35	2°30	8° 1	14°33	7°53	7°41	6° 8	16°23	17°11	W 3
T 4	0 49 54	10°34'40	29°32	6°38	20°22	3° 1	0°42	2°35	8° 5	14°33	7°56	7°37	6° 5	16°29	17° 8	T 4
F 5	0 53 51	11°33'37	13♂19	8°27	20°52	3°41	0°49	2°40	8° 9	14°32	7°58	7°31	6° 2	16°36	17° 5	F 5
S 6	0 57 47	12°32'36	27°16	10°14	21°21	4°21	0°56	2°46	8°13	14°32	8° 0	7°26	5°59	16°43	17° 3	S 6
S 7	1 1 44	13°31'37	11♂21	12° 1	21°48	5° 1	1° 3	2°51	8°17	14°31	8° 3	7°21	5°56	16°49	17° 0	S 7
M 8	1 5 40	14°30'40	25°31	13°47	22°13	5°42	1°10	2°56	8°20	14°30	8° 5	7°18	5°53	16°56	16°57	M 8
T 9	1 9 37	15°29'46	9♂42	15°33	22°37	6°22	1°18	3° 2	8°24	14°30	8° 7	7°D17	5°49	17° 3	16°54	T 9
W10	1 13 34	16°28'55	23°52	17°17	22°59	7° 3	1°25	3° 7	8°28	14°29	8°10	7°17	5°46	17° 9	16°52	W10
T 11	1 17 30	17°28'05	7♂59	19° 1	23°20	7°44	1°33	3°13	8°32	14°28	8°12	7°18	5°43	17°16	16°49	T 11
F 12	1 21 27	18°27'18	22° 3	20°44	23°38	8°25	1°41	3°19	8°35	14°28	8°14	7°19	5°40	17°23	16°46	F 12
S 13	1 25 23	19°26'33	6♂1	22°27	23°55	9° 6	1°49	3°24	8°39	14°27	8°16	7°R20	5°37	17°29	16°43	S 13
S 14	1 29 20	20°25'50	19°52	24° 8	24° 9	9°48	1°57	3°30	8°43	14°26	8°19	7°19	5°34	17°36	16°41	S 14
M15	1 33 16	21°25'10	3♂34	25°49	24°22	10°29	2° 5	3°36	8°47	14°25	8°21	7°17	5°30	17°43	16°38	M15
T 16	1 37 13	22°24'31	17° 4	27°29	24°33	11°11	2°14	3°42	8°50	14°24	8°23	7°12	5°27	17°49	16°35	T 16
W17	1 41 9	23°23'55	0♂20	29° 9	24°41	11°53	2°22	3°48	8°54	14°23	8°25	7° 5	5°24	17°56	16°32	W17
T 18	1 45 6	24°23'21	13°20	0♂47	24°47	12°34	2°31	3°54	8°58	14°22	8°28	6°57	5°21	18° 3	16°30	T 18
F 19	1 49 2	25°22'48	26° 4	2°25	24°51	13°16	2°40	4° 0	9° 1	14°21	8°30	6°48	5°18	18°10	16°27	F 19
S 20	1 52 59	26°22'18	8♂32	4° 2	24°R53	13°58	2°49	4° 6	9° 5	14°20	8°32	6°39	5°14	18°16	16°24	S 20
S 21	1 56 56	27°21'49	20°45	5°39	24°52	14°41	2°58	4°12	9° 9	14°19	8°34	6°32	5°11	18°23	16°21	S 21
M22	2 0 52	28°21'23	2♂47	7°15	24°49	15°23	3° 7	4°18	9°12	14°18	8°36	6°26	5° 8	18°30	16°19	M22
T 23	2 4 49	29°20'58	14°40	8°50	24°43	16° 5	3°16	4°25	9°16	14°17	8°39	6°23	5° 5	18°36	16°16	T 23
W24	2 8 45	0♂20'34	26°30	10°25	24°35	16°48	3°26	4°31	9°20	14°16	8°41	6°D21	5° 2	18°43	16°13	W24
T 25	2 12 42	1°20'13	8♂22	11°59	24°25	17°30	3°35	4°37	9°23	14°15	8°43	6°21	4°59	18°50	16°11	T 25
F 26	2 16 38	2°19'53	20°20	13°32	24°12	18°13	3°45	4°43	9°27	14°14	8°45	6°22	4°55	18°56	16° 8	F 26
S 27	2 20 35	3°19'35	2♂30	15° 5	23°57	18°56	3°55	4°50	9°30	14°13	8°47	6°R23	4°52	19° 3	16° 6	S 27
S 28	2 24 31	4°19'18	14°58	16°37	23°39	19°39	4° 5	4°56	9°34	14°11	8°49	6°23	4°49	19°10	16° 3	S 28
M29	2 28 28	5°19'04	27°46	18° 9	23°19	20°22	4°15	5° 3	9°38	14°10	8°52	6°21	4°46	19°16	16° 0	M29
T 30	2 32 25	6°18'51	10♂57	19°40	22°57	21° 5	4°25	5° 9	9°41	14° 9	8°54	6°16	4°43	19°23	15°58	T 30
W31	2 36 21	7♂18'40	24♂32	21♂11	22♂33	21♂48	4♂35	5♂16	9♂44	14♂8	8♂56	6♂9	4♂40	19♂30	15♂55	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	3s 2	5s 3	1s 5	1n 9	1n45	22s37	5s28	25s46	2s22	23s23	0n 2	18s52	1n46	2s30	0n41	20n58
T 2	3 25	0 56	2 12	0 22	1 42	22 52	5 33	25 45	2 21	23 23	0 2	18 53	1 46	2 32	0 41	20 58
W 3	3 48	3n18	3 14	0s24	1 39	23 7	5 39	25 43	2 20	23 23	0 2	18 55	1 45	2 33	0 41	20 58
T 4	4 11	7 28	4 5	1 11	1 35	23 21	5 45	25 42	2 19	23 23	0 2	18 56	1 45	2 35	0 41	20 58
F 5	4 34	11 18	4 44	1 57	1 31	23 34	5 50	25 40	2 19	23 23	0 1	18 57	1 45	2 36	0 41	20 58
S 6	4 57	14 33	5 6	2 44	1 26	23 47	5 56	25 38	2 18	23 23	0 1	18 58	1 45	2 38	0 41	20 58
S 7	5 20	16 59	5 10	3 30	1 21	24 0	6 1	25 36	2 17	23 23	0 1	18 59	1 45	2 39	0 41	20 58
M 8	5 43	18 24	4 56	4 16	1 16	24 11	6 6	25 34	2 17	23 23	0 1	19 1	1 44	2 41	0 41	20 57
T 9	6 6	18 41	4 23	5 2	1 10	24 22	6 11	25 31	2 16	23 23	0 1	19 2	1 44	2 42	0 41	20 57
W10	6 28	17 47	3 34	5 47	1 5	24 32	6 15	25 28	2 15	23 23	0 1	19 3	1 44	2 44	0 41	20 57
T 11	6 51	15 47	2 33	6 32	0 19	25 42	6 19	25 25	2 14	23 23	0 1	19 4	1 44	2 45	0 41	20 57
F 12	7 13	12 51	1 22	7 17	0 52	24 50	6 24	25 22	2 14	23 23	0 1	19 6	1 44	2 47	0 41	20 57
S 13	7 36	9 11	0 7	8 1	0 46	24 58	6 27	25 18	2 13	23 23	0 1	19 7	1 44	2 48	0 41	20 57
S 14	7 58	5 2	1n 7	8 44	0 40	25 6	6 31	25 14	2 12	23 23	0 0	19 8	1 44	2 50	0 41	20 57
M15	8 21	0 41	2 17	9 27	0 33	25 12	6 34	25 10	2 11	23 23	0 0	19 9	1 43	2 51	0 41	20 57
T 16	8 43	3s39	3 18	10 9	0 27	25 17	6 37	25 6	2 10	23 23	0 0	19 10	1 43	2 53	0 41	20 56
W17	9 5	7 43	4 7	10 51	0 20	25 22	6 39	25 2	2 10	23 23	0 0	19 12	1 43	2 54	0 41	20 56
T 18	9 27	11 20	4 42	11 32	0 13	25 25	6 41	24 57	2 9	23 23	0 0	19 13	1 43	2 56	0 41	20 56
F 19	9 48	14 21	5 2	12 12	0 6	25 28	6 43	24 52	2 8	23 23	0s 0	19 14	1 43	2 57	0 41	20 56
S 20	10 10	16 39	5 7	12 51	0s 1	25 30	6 44	24 47	2 7	23 23	0 0	19 16	1 43	2 58	0 41	20 56
S 21	10 31	18 8	4 58	13 30	0 7	25 30	6 45	24 42	2 6	23 23	0 0	19 17	1 42	3 0	0 41	20 56
M22	10 53	18 47	4 35	14 8	0 14	25 30	6 45	24 36	2 5	23 23	0 0	19 18	1 42	3 1	0 41	20 56
T 23	11 14	18 36	4 2	14 46	0 21	25 28	6 45	24 30	2 5	23 23	0 0	19 19	1 42	3 3	0 41	20 55
W24	11 35	17 36	3 17	15 22	0 28	25 25	6 44	24 24	2 4	23 22	0 1	19 21	1 42	3 4	0 41	20 55
T 25	11 55	15 49	2 25	15 58	0 35	25 21	6 43	24 18	2 3	23 22	0 1	19 22	1 42	3 5	0 41	20 55
F 26	12 16	13 21	1 25	16 33	0 42	25 16	6 41	24 11	2 2	23 22	0 1	19 23	1 42	3 7	0 41	20 55
S 27	12 36	10 15	0 21	17 7	0 48	25 9	6 38	24 4	2 1	23 22	0 1	19 24	1 42	3 8	0 41	20 55
S 28	12 57	6 37	0s46	17 40	0 55	25 2	6 35	23 57	2 0	23 22	0 1	19 26	1 42	3 10	0 41	20 55
M29	13 17	2 36	1 52	18 12	1 1	24 53	6 31	23 50	1 59	23 21	0 1	19 27	1 41	3 11	0 41	20 54
T 30	13 36	1n40	2 54	18 43	1 8	24 42	6 26	23 43	1 59	23 21	0 1	19 28	1 41	3 12	0 41	20 54
W31	13s56	5n58	3s48	19s14	1s14	24s30	6s21	23s35	1s58	23s21	0s 1	19s30	1n41	3s14	0n41	20n54

Julian Day Number = 2532536.5, Delta T = 185.82 sec

Ecliptic obliquity = 23°24'30, Nutation = - 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°50'22, Lahiri = 26°57'22

ASTRODIENST EPHEMERIS for the year 2221

geocentric

NOVEMBER 2221

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 40 18	8♈18'30	8♈28	22♈41	22°R 6	22♈31	4♈45	5♈22	9♈48	14°R 6	8♈58	6°R 0	4♈36	19♈36	15°R53	T 1
F 2	2 44 14	9°18'23	22°43	24°11	21♈38	23°15	4°56	5°29	9°51	14°II 5	9° 0	5°50	4°33	19°43	15°Y50	F 2
S 3	2 48 11	10°18'18	7♈9	25°40	21° 8	23°58	5° 6	5°36	9°55	14° 4	9° 2	5°39	4°30	19°50	15°48	S 3
S 4	2 52 7	11°18'15	21°41	27° 8	20°37	24°41	5°17	5°42	9°58	14° 2	9° 4	5°30	4°27	19°56	15°45	S 4
M 5	2 56 4	12°18'14	6♈12	28°36	20° 4	25°25	5°28	5°49	10° 2	14° 1	9° 6	5°23	4°24	20° 3	15°43	M 5
T 6	3 0 0	13°18'15	20°36	0♈4	19°30	26° 9	5°38	5°56	10° 5	14° 0	9° 8	5°19	4°20	20°10	15°41	T 6
W 7	3 3 57	14°18'18	4♈50	1°30	18°55	26°52	5°49	6° 2	10° 8	13°58	9°10	5°17	4°17	20°17	15°38	W 7
T 8	3 7 54	15°18'24	18°53	2°57	18°19	27°36	6° 0	6° 9	10°11	13°57	9°12	5°D16	4°14	20°23	15°36	T 8
F 9	3 11 50	16°18'31	2♈44	4°22	17°43	28°20	6°11	6°16	10°15	13°55	9°14	5°R17	4°11	20°30	15°34	F 9
S 10	3 15 47	17°18'41	16°22	5°47	17° 6	29° 4	6°23	6°23	10°18	13°54	9°16	5°16	4° 8	20°37	15°31	S 10
S 11	3 19 43	18°18'52	29°50	7°11	16°30	29°48	6°34	6°30	10°21	13°52	9°18	5°14	4° 5	20°43	15°29	S 11
M12	3 23 40	19°19'06	13♈7	8°34	15°53	0♈32	6°45	6°37	10°24	13°51	9°19	5° 9	4° 1	20°50	15°27	M12
T 13	3 27 36	20°19'22	26°14	9°57	15°18	1°16	6°57	6°44	10°27	13°49	9°21	5° 1	3°58	20°57	15°25	T 13
W14	3 31 33	21°19'39	9♈9	11°18	14°43	2° 0	7° 8	6°51	10°31	13°48	9°23	4°50	3°55	21° 3	15°23	W14
T 15	3 35 29	22°19'58	21°52	12°39	14° 9	2°45	7°20	6°57	10°34	13°46	9°25	4°37	3°52	21°10	15°21	T 15
F 16	3 39 26	23°20'19	4♈24	13°58	13°36	3°29	7°31	7° 4	10°37	13°45	9°27	4°23	3°49	21°17	15°19	F 16
S 17	3 43 23	24°20'42	16°43	15°16	13° 4	4°14	7°43	7°11	10°40	13°43	9°29	4° 9	3°45	21°23	15°17	S 17
S 18	3 47 19	25°21'06	28°51	16°32	12°35	4°58	7°55	7°18	10°43	13°42	9°30	3°57	3°42	21°30	15°15	S 18
M19	3 51 16	26°21'32	10♈49	17°47	12° 7	5°43	8° 7	7°25	10°46	13°40	9°32	3°47	3°39	21°37	15°13	M19
T 20	3 55 12	27°21'59	22°40	19° 1	11°40	6°27	8°19	7°33	10°49	13°38	9°34	3°40	3°36	21°43	15°11	T 20
W21	3 59 9	28°22'28	4♈28	20°12	11°16	7°12	8°31	7°40	10°51	13°37	9°35	3°36	3°33	21°50	15° 9	W21
T 22	4 3 5	29°22'57	16°17	21°21	10°54	7°56	8°43	7°47	10°54	13°35	9°37	3°34	3°30	21°57	15° 7	T 22
F 23	4 7 2	0♈23'29	28°12	22°27	10°34	8°41	8°56	7°54	10°57	13°33	9°39	3°33	3°26	22° 3	15° 6	F 23
S 24	4 10 58	1°24'01	10♈19	23°30	10°17	9°26	9° 8	8° 1	11° 0	13°32	9°40	3°33	3°23	22°10	15° 4	S 24
S 25	4 14 55	2°24'34	22°44	24°30	10° 2	10°11	9°20	8° 8	11° 3	13°30	9°42	3°32	3°20	22°17	15° 2	S 25
M26	4 18 52	3°25'09	5°Y32	25°26	9°49	10°56	9°33	8°15	11° 5	13°28	9°43	3°30	3°17	22°23	15° 1	M26
T 27	4 22 48	4°25'45	18°46	26°18	9°39	11°41	9°45	8°22	11° 8	13°27	9°45	3°24	3°14	22°30	14°59	T 27
W28	4 26 45	5°26'22	2♈28	27° 5	9°31	12°26	9°58	8°29	11°10	13°25	9°47	3°16	3°11	22°37	14°57	W28
T 29	4 30 41	6°27'01	16°38	27°46	9°26	13°11	10°10	8°36	11°13	13°23	9°48	3° 6	3° 7	22°44	14°56	T 29
F 30	4 34 38	7♈27'40	1♈11	28♈21	9♈23	13♈56	10♈23	8♈43	11♈16	13♈22	9♈49	2♈54	3♈4	22♈50	14°Y55	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s15	10n 3	4s29	19s43	1s21	24s17	6s14	23s27	1s57	23s21	0s 1	19s31	1n41	3s15	0n41	20n54	1s35	11n15	16n 7	9n18	9n49	18s22	7n57	1n51	
F 2	14 35	13 40	4 55	20 11	1 27	24 3	6 7	23 19	1 56	23 20	0 1	19 32	1 41	3 16	0 41	20 54	1 35	11 15	16 7	9 22	9 50	18 22	7 56	1 51	
S 3	14 53	16 30	5 3	20 39	1 33	23 48	5 59	23 10	1 55	23 20	0 2	19 33	1 41	3 18	0 41	20 53	1 35	11 14	16 7	9 26	9 51	18 22	7 55	1 51	
S 4	15 12	18 18	4 51	21 5	1 38	23 31	5 51	23 2	1 54	23 20	0 2	19 35	1 41	3 19	0 41	20 53	1 35	11 14	16 8	9 29	9 52	18 21	7 54	1 51	
M 5	15 31	18 55	4 21	21 31	1 44	23 13	5 41	22 53	1 53	23 20	0 2	19 36	1 41	3 20	0 41	20 53	1 35	11 13	16 8	9 31	9 53	18 21	7 53	1 50	
T 6	15 49	18 18	3 34	21 55	1 49	22 54	5 31	22 44	1 52	23 19	0 2	19 37	1 40	3 22	0 41	20 53	1 35	11 13	16 8	9 33	9 54	18 21	7 52	1 50	
W 7	16 7	16 32	2 34	22 18	1 55	22 33	5 21	22 34	1 51	23 19	0 2	19 38	1 40	3 23	0 41	20 53	1 35	11 12	16 9	9 34	9 55	18 20	7 51	1 50	
T 8	16 24	13 47	1 26	22 41	2 0	22 12	5 9	22 25	1 50	23 18	0 2	19 40	1 40	3 24	0 41	20 53	1 35	11 12	16 9	9 34	9 57	18 20	7 50	1 50	
F 9	16 42	10 17	0 14	23 2	2 5	21 50	4 57	22 15	1 49	23 18	0 2	19 41	1 40	3 25	0 41	20 52	1 35	11 12	16 9	9 34	9 58	18 20	7 49	1 50	
S 10	16 59	6 16	0n59	23 22	2 9	21 28	4 44	22 5	1 48	23 18	0 2	19 42	1 40	3 27	0 41	20 52	1 35	11 11	16 10	9 34	9 59	18 19	7 48	1 50	
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M12	17 32	2s19	3 6	23 58	2 18	20 41	4 17	21 45	1 47	23 17	0 2	19 45	1 40	3 29	0 41	20 52	1 35	11 10	16 10	9 37	10 1	18 19	7 46	1 50	
T 13	17 48	6 27	3 55	24 14	2 21	20 17	4 3	21 34	1 46	23 16	0 3	19 46	1 40	3 30	0 41	20 52	1 35	11 10	16 11	9 40	10 2	18 18	7 45	1 49	
W14	18 4	10 14	4 31	24 30	2 25	19 52	3 49	21 23	1 45	23 16	0 3	19 47	1 40	3 32	0 41	20 51	1 35	11 10	16 11	9 44	10 4	18 18	7 44	1 49	
T 15	18 20	13 29	4 53	24 43	2 28	19 28	3 34	21 12	1 44	23 15	0 3	19 48	1 40	3 33	0 41	20 51	1 35	11 9	16 11	9 48	10 5	18 17	7 43	1 49	
F 16	18 35	16 4	5 0	24 56	2 30	19 4	3 19	21 1	1 43	23 14	0 3	19 50	1 40	3 34	0 41	20 51	1 35	11 9	16 12	9 53	10 6	18 17	7 42	1 49	
S 17	18 50	17 53	4 53	25 7	2 32	18 39	3 4	20 49	1 42	23 14	0 3	19 51	1 39	3 35	0 41	20 51	1 35	11 9	16 12	9 58	10 7	18 17	7 41	1 49	
S 18	19 5	18 51	4 33	25 17	2 34	18 16	2 48	20 38	1 41	23 13	0 3	19 52	1 39	3 36	0 41	20 51	1 35	11 8	16 13	10 3	10 8	18 16	7 40	1 49	
M19	19 19	18 58	4 1	25 26	2 36	17 52	2 33	20 26	1 40	23 13	0 3	19 53	1 39	3 37	0 41	20 50	1 35	11 8	16 13	10 6	10 9	18 16	7 39	1 49	
T 20	19 33	18 15	3 18	25 33	2 36	17 29	2 17	20 14	1 39	23 12	0 3	19 54	1 39	3 38	0 41	20 50	1 35	11 8	16 13	10 9	10 10	18 16	7 38	1 48	
W21	19 46	16 44	2 28	25 39	2 37	17 7	2 2	20 2	1 38	23 11	0 3	19 56	1 39	3 40	0 41	20 50	1 35	11 8	16 14	10 11	10 12	18 15	7 37	1 48	
T 22	20 0	14 30	1 30	25 43	2 36	16 46	1 47	19 49	1 37	23 11	0 3	19 57	1 39	3 41	0 41	20 50	1 35	11 7	16 14	10 11	10 13	18 15	7 37	1 48	
F 23	20 12	11 38	0 28	25 46	2 35	16 25	1 31	19 36	1 36	23 10	0 3	19 58	1 39	3 42	0 41	20 50	1 35	11 7	16 15	10 11	10 14	18 14	7 36	1 48	
S 24	20 25	8 14	0s36	25 48	2 33	16 6	1 16	19 24	1 35	23 9	0 4	19 59	1 39	3 43	0 41	20 49	1 35	11 7	16 15	10 11	10 15	18 14	7 35	1 48	
S 25	20 37	4 24	1 40	25 48	2 31	15 47	1 2	19 11	1 34	23 8	0 4	20 0	1 39	3 44	0 41	20 49	1 35	11 7	16 16	10 12	10 16	18 14	7 34	1 48	
M26	20 49	0 16	2 41	25 47	2 27	15 29	0 47	18 57	1 33	23 8	0 4	20 2	1 39	3 45	0 41	20 49	1 35	11 6	16 16	10 13	10 17	18 13	7 34	1 48	
T 27	21 0	4n 2	3 35	25 44	2 23	15 13	0 33	18 44	1 32	23 7	0 4	20 3	1 39	3 46	0 41	20 49	1 35	11 6	16 17	10 15	10 18	18 13	7 33	1 47	
W28	21 11	8 16	4 19	25 40	2 17	14 57	0 20	18 30	1 31	23 6	0 4	20 4	1 39	3 47	0 41	20 49	1 35	11 6	16 17	10 18	10 20	18 12	7 32	1 47	
T 29	21 21	12 10	4 48	25 34	2 11	14 43	0 6	18 17	1 30	23 5	0 4	20 5	1 39	3 48	0 41	20 48	1 35	11 6	16 17	10 21	10 21	18 12	7 31	1 47	
F 30	21s32	15n28	5s 0	25s27	2s 3	14s30	0n 7	18s 3	1s29	23s 4	0s 4	20s 6	1n39	3s49	0n41	20n48	1s35	11n 6	16n18	10n26	10n22	18s12	7n31	1n47	

ASTRODIENST EPHEMERIS for the year 2221

geocentric

DECEMBER 2221

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 34	8°28'21	16°11	28°49	9°D23	14°41	10°36	8°50	11°18	13°R20	9°51	2°R42	3°11	22°57	14°R53	S 1
S 2	4 42 31	9°29'04	1°0	29°10	9°M25	15°26	10°49	8°58	11°20	13°18	9°52	2°M31	2°58	23° 4	14°Y52	S 2
M 3	4 46 27	10°29'48	15°57	29°22	9°30	16°11	11° 1	9° 5	11°23	13°17	9°54	2°23	2°55	23°10	14°51	M 3
T 4	4 50 24	11°30'33	0°43	29°R24	9°37	16°56	11°14	9°12	11°25	13°15	9°55	2°17	2°51	23°17	14°49	T 4
W 5	4 54 21	12°31'20	15°14	29°17	9°46	17°41	11°27	9°19	11°28	13°13	9°56	2°14	2°48	23°24	14°48	W 5
T 6	4 58 17	13°32'08	29°26	28°58	9°57	18°26	11°40	9°26	11°30	13°12	9°58	2°D13	2°45	23°30	14°47	T 6
F 7	5 2 14	14°32'58	13°18	28°29	10°11	19°12	11°53	9°33	11°32	13°10	9°59	2°R13	2°42	23°37	14°46	F 7
S 8	5 6 10	15°33'49	26°50	27°48	10°27	19°57	12° 6	9°40	11°34	13° 8	10° 0	2°13	2°39	23°44	14°45	S 8
S 9	5 10 7	16°34'41	10°6	26°57	10°45	20°42	12°20	9°47	11°36	13° 6	10° 1	2°11	2°36	23°50	14°44	S 9
M10	5 14 3	17°35'35	23° 6	25°56	11° 5	21°28	12°33	9°54	11°38	13° 5	10° 2	2° 6	2°32	23°57	14°43	M10
T 11	5 18 0	18°36'30	5°M53	24°45	11°27	22°13	12°46	10° 1	11°40	13° 3	10° 4	1°59	2°29	24° 4	14°42	T 11
W12	5 21 56	19°37'26	18°29	23°29	11°50	22°58	12°59	10° 9	11°42	13° 1	10° 5	1°48	2°26	24°10	14°41	W12
T 13	5 25 53	20°38'24	0°55	22° 7	12°16	23°44	13°13	10°16	11°44	13° 0	10° 6	1°36	2°23	24°17	14°40	T 13
F 14	5 29 50	21°39'22	13°12	20°44	12°43	24°29	13°26	10°23	11°46	12°58	10° 7	1°22	2°20	24°24	14°40	F 14
S 15	5 33 46	22°40'22	25°20	19°22	13°12	25°15	13°40	10°30	11°48	12°56	10° 8	1° 9	2°17	24°30	14°39	S 15
S 16	5 37 43	23°41'22	7°20	18° 4	13°42	26° 0	13°53	10°37	11°50	12°55	10° 9	0°57	2°13	24°37	14°39	S 16
M17	5 41 39	24°42'23	19°13	16°52	14°14	26°46	14° 7	10°44	11°52	12°53	10°10	0°47	2°10	24°44	14°38	M17
T 18	5 45 36	25°43'25	1°2	15°49	14°48	27°31	14°20	10°51	11°53	12°51	10°11	0°40	2° 7	24°50	14°37	T 18
W19	5 49 32	26°44'27	12°48	14°55	15°23	28°17	14°34	10°58	11°55	12°50	10°11	0°35	2° 4	24°57	14°37	W19
T 20	5 53 29	27°45'30	24°37	14°12	15°59	29° 2	14°47	11° 5	11°56	12°48	10°12	0°33	2° 1	25° 4	14°37	T 20
F 21	5 57 26	28°46'34	6°30	13°40	16°37	29°48	15° 1	11°11	11°58	12°46	10°13	0°D33	1°57	25°10	14°36	F 21
S 22	6 1 22	29°47'37	18°35	13°19	17°16	0°33	15°15	11°18	11°59	12°45	10°14	0°34	1°54	25°17	14°36	S 22
S 23	6 5 19	0°348'41	0°Y56	13° 8	17°56	1°19	15°28	11°25	12° 1	12°43	10°15	0°R35	1°51	25°24	14°36	S 23
M24	6 9 15	1°49'46	13°38	13°D 8	18°37	2° 4	15°42	11°32	12° 2	12°42	10°15	0°34	1°48	25°30	14°36	M24
T 25	6 13 12	2°50'51	26°46	13°17	19°20	2°50	15°56	11°39	12° 4	12°40	10°16	0°31	1°45	25°37	14°36	T 25
W26	6 17 8	3°51'55	10°B23	13°35	20° 3	3°35	16° 9	11°46	12° 5	12°38	10°17	0°26	1°42	25°44	14°D36	W26
T 27	6 21 5	4°53'01	24°30	14° 1	20°48	4°21	16°23	11°52	12° 6	12°37	10°17	0°19	1°38	25°50	14°36	T 27
F 28	6 25 1	5°54'06	9°II 5	14°34	21°33	5° 7	16°37	11°59	12° 7	12°35	10°18	0°10	1°35	25°57	14°36	F 28
S 29	6 28 58	6°55'12	24° 3	15°14	22°20	5°52	16°51	12° 6	12° 8	12°34	10°18	0° 2	1°32	26° 4	14°36	S 29
S 30	6 32 55	7°56'18	9°S15	15°59	23° 7	6°38	17° 5	12°12	12° 9	12°32	10°19	29°J53	1°29	26°10	14°36	S 30
M31	6 36 51	8°57'24	24°S31	16°49	23°M56	7°33	17°19	12°19	12°10	12°31	10°19	29°J47	1°26	26°17	14°Y36	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	21s41	17n50	4s52	25s19	1s55	14s18	0n19	17s49	1s28	23s 3	0s 4	20s 7	1n39	3s50	0n41	20n48	1s35	11n 6	16n18	10n30	10n23	18s11	7n30	1n47	
S 2	21 51	19 0	4 25	25 9	1 44	14 7	0 32	17 34	1 27	23 2	0 4	20 9	1 38	3 51	0 41	20 48	1 35	11 6	16 19	10 34	10 24	18 11	7 29	1 47	
M 3	22 0	18 50	3 39	24 57	1 33	13 57	0 43	17 20	1 26	23 1	0 4	20 10	1 38	3 52	0 42	20 47	1 35	11 6	16 19	10 37	10 25	18 10	7 29	1 46	
T 4	22 8	17 23	2 38	24 44	1 20	13 48	0 55	17 5	1 25	23 0	0 4	20 11	1 38	3 52	0 42	20 47	1 35	11 6	16 20	10 39	10 27	18 10	7 28	1 46	
W 5	22 16	14 50	1 29	24 30	1 6	13 41	1 6	16 50	1 24	22 59	0 5	20 12	1 38	3 53	0 42	20 47	1 35	11 6	16 20	10 40	10 28	18 10	7 27	1 46	
T 6	22 24	11 25	0 15	24 14	0 50	13 34	1 16	16 36	1 23	22 58	0 5	20 13	1 38	3 54	0 42	20 47	1 35	11 5	16 21	10 40	10 29	18 9	7 27	1 46	
F 7	22 31	7 27	0n58	23 57	0 33	13 29	1 26	16 20	1 22	22 57	0 5	20 14	1 38	3 55	0 42	20 47	1 35	11 5	16 21	10 40	10 30	18 9	7 26	1 46	
S 8	22 38	3 11	2 6	23 38	0 14	13 25	1 36	16 5	1 21	22 56	0 5	20 15	1 38	3 56	0 42	20 46	1 35	11 5	16 22	10 40	10 31	18 8	7 26	1 46	
S 9	22 44	1s 8	3 6	23 17	0n 5	13 21	1 45	15 50	1 20	22 55	0 5	20 16	1 38	3 57	0 42	20 46	1 35	11 6	16 22	10 41	10 32	18 8	7 25	1 46	
M10	22 50	5 19	3 55	22 56	0 25	13 19	1 54	15 34	1 19	22 54	0 5	20 17	1 38	3 57	0 42	20 46	1 35	11 6	16 23	10 43	10 33	18 7	7 25	1 45	
T 11	22 55	9 12	4 31	22 33	0 45	13 18	2 3	15 19	1 18	22 53	0 5	20 18	1 38	3 58	0 42	20 46	1 35	11 6	16 23	10 45	10 34	18 7	7 24	1 45	
W12	23 0	12 36	4 53	22 9	1 6	13 17	2 11	15 3	1 17	22 52	0 5	20 19	1 38	3 59	0 42	20 46	1 35	11 6	16 24	10 49	10 36	18 6	7 24	1 45	
T 13	23 5	15 24	5 1	21 46	1 25	13 18	2 19	14 47	1 16	22 50	0 5	20 20	1 38	4 0	0 42	20 45	1 35	11 6	16 25	10 54	10 37	18 6	7 23	1 45	
F 14	23 9	17 28	4 55	21 22	1 43	13 19	2 26	14 31	1 15	22 49	0 5	20 21	1 38	4 0	0 42	20 45	1 35	11 6	16 25	10 58	10 38	18 5	7 23	1 45	
S 15	23 12	18 44	4 35	20 59	2 0	13 21	2 33	14 15	1 14	22 48	0 5	20 22	1 38	4 1	0 42	20 45	1 35	11 6	16 26	11 3	10 39	18 5	7 22	1 45	
S 16	23 15	19 9	4 4	20 38	2 15	13 24	2 39	13 58	1 13	22 47	0 6	20 23	1 38	4 2	0 42	20 45	1 35	11 6	16 26	11 8	10 40	18 5	7 22	1 44	
M17	23 18	18 42	3 21	20 19	2 27	13 27	2 46	13 42	1 12	22 45	0 6	20 24	1 38	4 2	0 42	20 45	1 35	11 6	16 27	11 11	10 41	18 4	7 22	1 44	
T 18	23 20	17 27	2 31	20 3	2 37	13 31	2 51	13 25	1 11	22 44	0 6	20 25	1 38	4 3	0 42	20 45	1 35	11 6	16 27	11 14	10 42	18 4	7 21	1 44	
W19	23 22	15 27	1 33	19 49	2 45	13 36	2 57	13 9	1 10	22 43	0 6	20 26	1 38	4 4	0 42	20 44	1 35	11 7	16 28	11 15	10 44	18 3	7 21	1 44	
T 20	23 23	12 48	0 32	19 39	2 51	13 42	3 2	12 52	1 8	22 41	0 6	20 27	1 38	4 4	0 42	20 44	1 35	11 7	16 28	11 16	10 45	18 3	7 21	1 44	
F 21	23 24	9 36	0s32	19 32	2 54	13 48	3 7	12 35	1 7	22 40	0 6	20 28	1 38	4 5	0 42	20 44	1 35	11 7	16 29	11 16	10 46	18 2	7 20	1 44	
S 22	23 24	5 58	1 35	19 28	2 56	13 54	3 11	12 18	1 6	22 38	0 6	20 29	1 38	4 5	0 42	20 44	1 35	11 7	16 30	11 15	10 47	18 2	7 20	1 43	
S 23	23 24	2 0	2 35	19 27	2 55	14 1	3 16	12 1	1 5	22 37	0 6	20 30	1 38	4 6	0 42	20 44	1 35	11 7	16 30	11 15	10 48	18 1	7 20	1 43	
M24	23 24	2n 9	3 30	19 29	2 53	14 9	3 20	11 44	1 4	22 35	0 6	20 31	1 38	4 6	0 42	20 43	1 35	11 8	16 31	11 16	10 49	18 1	7 20	1 43	
T 25	23 23	6 20	4 15	19 33	2 50	14 16	3 23	11 26	1 3	22 34	0 6	20 32	1 38	4 7	0 42	20 43	1 35	11 8	16 31	11 17	10 50	18 0	7 20	1 43	
W26	23 21	10 21	4 48	19 39	2 46	14 25	3 27	11 9	1 2	22 32	0 6	20 33	1 38	4 7	0 42	20 43	1 35	11 8	16 32	11 18	10 52	18 0	7 19	1 43	
T 27	23 19	13 57	5 5	19 48	2 41	14 33	3 30	10 51	1 1	22 31	0 7	20 34	1 38	4 8	0 42	20 43	1 35	11 9	16 32	11 21	10 53	17 59	7 19	1 43	
F 28	23 17	16 48	5 2	19 57	2 35	14 42	3 32	10 34	1 0	22 29	0 7	20 35	1 38	4 8	0 42	20 43	1 35	11 9	16 33	11 24	10 54	17 59	7 19	1 42	
S 29	23 14	18 37	4 40	20 8	2 28	14 52	3 35	10 16	0 59	22 28	0 7	20 36	1 38	4 8	0 42	20 43	1 35	11 9	16 34	11 27	10 55	17 58	7 19	1 42	
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M31	23s 6	18n16	2s58	20s33	2n13	15s11	3n39	9s40	0s57	22s24	0s 7	20s37	1n38	4s 9	0n42	20n42	1s35	11n10	16n35	11n32	10n57	17s57	7n19	1n42	