



Astrodienst Ephemeris Tables for the year 2200

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 2200
geocentric

JANUARY 2200

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 42 6	10 ³ 19'38	6 ⁵ 31	29 ⁵ 53	14 ⁷ 46	3 ¹ 17	4 ¹ 21	28 ³ 3	27°R 0	22°R18	24°R45	8°R18	6 ¹ 52	1 ¹ 9	18 ⁷ 1	W 1
T 2	6 46 3	11°20'45	18°28	0 ⁵ 57	16° 1	3°19	4°32	28° 9	26 ¹ 57	22°D18	24 ¹ 44	8 ¹ 6	6°49	1°16	18° 8	T 2
F 3	6 49 59	12°21'52	0 ¹ 22	1°56	17°16	3°R19	4°44	28°15	26°55	22°Y18	24°43	7°53	6°45	1°23	18°15	F 3
S 4	6 53 56	13°23'00	12°14	2°49	18°31	3°19	4°55	28°20	26°52	22°18	24°42	7°40	6°42	1°29	18°22	S 4
S 5	6 57 53	14°24'08	24° 6	3°35	19°46	3°18	5° 7	28°26	26°50	22°18	24°41	7°29	6°39	1°36	18°28	S 5
M 6	7 1 49	15°25'15	6 ¹ 0	4°14	21° 1	3°16	5°19	28°32	26°47	22°18	24°40	7°20	6°36	1°43	18°35	M 6
T 7	7 5 46	16°26'23	18° 0	4°43	22°15	3°14	5°30	28°38	26°45	22°18	24°39	7°13	6°33	1°49	18°42	T 7
W 8	7 9 42	17°27'32	0 ¹ 10	5° 3	23°30	3°11	5°42	28°44	26°43	22°18	24°38	7° 9	6°30	1°56	18°49	W 8
T 9	7 13 39	18°28'40	12°33	5°R13	24°45	3° 6	5°54	28°50	26°40	22°19	24°37	7° 8	6°26	2° 3	18°56	T 9
F 10	7 17 35	19°29'49	25°14	5°11	26° 0	3° 1	6° 6	28°56	26°38	22°19	24°36	7°D 8	6°23	2°10	19° 2	F 10
S 11	7 21 32	20°30'58	8 ¹ 19	4°58	27°15	2°56	6°18	29° 2	26°36	22°19	24°34	7°R 8	6°20	2°16	19° 9	S 11
S 12	7 25 28	21°32'07	21°51	4°33	28°30	2°49	6°31	29° 9	26°33	22°19	24°33	7° 7	6°17	2°23	19°16	S 12
M13	7 29 25	22°33'17	5 ¹ 53	3°57	29°45	2°42	6°43	29°15	26°31	22°20	24°32	7° 4	6°14	2°30	19°22	M13
T 14	7 33 22	23°34'26	20°24	3° 9	1 ¹ 0	2°34	6°55	29°21	26°29	22°20	24°31	6°59	6°10	2°37	19°29	T 14
W15	7 37 18	24°35'35	5 ¹ 21	2°11	2°15	2°24	7° 8	29°28	26°27	22°21	24°30	6°51	6° 7	2°43	19°35	W15
T 16	7 41 15	25°36'44	20°35	1° 5	3°30	2°15	7°20	29°34	26°25	22°21	24°29	6°40	6° 4	2°50	19°42	T 16
F 17	7 45 11	26°37'53	5 ¹ 57	29 ³ 52	4°45	2° 4	7°33	29°41	26°22	22°22	24°27	6°28	6° 1	2°57	19°48	F 17
S 18	7 49 8	27°39'01	21°14	28°34	6° 0	1°52	7°46	29°47	26°20	22°22	24°26	6°17	5°58	3° 3	19°54	S 18
S 19	7 53 4	28°40'09	6 ¹ 16	27°15	7°15	1°40	7°59	29°54	26°18	22°23	24°25	6° 7	5°55	3°10	20° 1	S 19
M20	7 57 1	29°41'16	20°53	25°57	8°30	1°27	8°11	0 ¹ 0	26°16	22°23	24°23	6° 0	5°51	3°17	20° 7	M20
T 21	8 0 57	0 ¹ 42'22	5°Y 2	24°42	9°45	1°13	8°24	0° 7	26°14	22°24	24°22	5°56	5°48	3°24	20°13	T 21
W22	8 4 54	1°43'27	18°42	23°32	11° 0	0°59	8°37	0°13	26°12	22°24	24°21	5°54	5°45	3°30	20°19	W22
T 23	8 8 51	2°44'32	1 ¹ 54	22°28	12°15	0°43	8°50	0°20	26°10	22°25	24°20	5°54	5°42	3°37	20°25	T 23
F 24	8 12 47	3°45'35	14°43	21°33	13°30	0°27	9° 4	0°27	26° 9	22°26	24°18	5°54	5°39	3°44	20°31	F 24
S 25	8 16 44	4°46'38	27°13	20°46	14°45	0°11	9°17	0°34	26° 7	22°27	24°17	5°53	5°36	3°51	20°37	S 25
S 26	8 20 40	5°47'40	9 ¹ 28	20° 8	16° 0	29 ¹ 53	9°30	0°40	26° 5	22°27	24°15	5°49	5°32	3°57	20°43	S 26
M27	8 24 37	6°48'41	21°33	19°39	17°15	29°35	9°43	0°47	26° 3	22°28	24°14	5°43	5°29	4° 4	20°49	M27
T 28	8 28 33	7°49'41	3 ¹ 32	19°20	18°30	29°17	9°57	0°54	26° 1	22°29	24°13	5°34	5°26	4°11	20°55	T 28
W29	8 32 30	8°50'40	15°26	19° 9	19°45	28°57	10°10	1° 1	26° 0	22°30	24°11	5°22	5°23	4°17	21° 1	W29
T 30	8 36 26	9°51'38	27°19	19°D 7	21° 0	28°37	10°24	1° 8	25°58	22°31	24°10	5° 8	5°20	4°24	21° 6	T 30
F 31	8 40 23	10 ¹ 52'36	9 ¹ 11	19 ³ 13	22 ³ 15	28 ¹ 17	10 ¹ 37	1 ¹ 15	25 ¹ 56	22°Y32	24 ¹ 9	4 ¹ 53	5 ¹ 16	4 ¹ 31	21 ⁷ 12	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	23s 1	18n58	4s18	21s32	1s24	21s29	1n 4	13n30	3n26	10s51	1s 1	13s27	1s24	23n33	0n11	7n 8
T 2	22 56	17 26	4 45	21 8	1 14	21 39	1 2	13 31	3 29	10 47	1 1	13 25	1 24	23 33	0 11	7 8
F 3	22 50	15 10	5 0	20 44	1 4	21 49	0 59	13 33	3 31	10 43	1 1	13 23	1 24	23 33	0 11	7 8
S 4	22 44	12 17	5 1	20 21	0 52	21 58	0 57	13 35	3 33	10 39	1 1	13 21	1 24	23 33	0 11	7 8
S 5	22 38	8 55	4 50	19 57	0 38	22 7	0 54	13 38	3 36	10 34	1 1	13 19	1 24	23 33	0 11	7 8
M 6	22 31	5 11	4 26	19 34	0 24	22 15	0 52	13 41	3 38	10 30	1 1	13 17	1 24	23 33	0 11	7 8
T 7	22 24	1 13	3 50	19 12	0 9	22 22	0 49	13 44	3 40	10 26	1 1	13 15	1 24	23 33	0 11	7 8
W 8	22 16	2s52	3 3	18 51	0n 8	22 28	0 47	13 47	3 43	10 21	1 1	13 13	1 24	23 33	0 11	7 8
T 9	22 8	6 54	2 7	18 32	0 25	22 34	0 44	13 51	3 45	10 17	1 1	13 10	1 24	23 33	0 11	7 8
F 10	22 0	10 44	1 3	18 15	0 43	22 39	0 42	13 55	3 47	10 12	1 1	13 8	1 24	23 33	0 11	7 9
S 11	21 51	14 10	0n 6	18 0	1 2	22 44	0 39	13 59	3 49	10 8	1 1	13 6	1 24	23 33	0 11	7 9
S 12	21 41	16 58	1 17	17 48	1 21	22 48	0 37	14 3	3 52	10 3	1 1	13 4	1 24	23 33	0 11	7 9
M13	21 32	18 52	2 26	17 38	1 40	22 51	0 34	14 8	3 54	9 58	1 1	13 2	1 24	23 33	0 11	7 9
T 14	21 21	19 37	3 28	17 31	1 58	22 53	0 31	14 13	3 56	9 54	1 0	12 59	1 24	23 33	0 11	7 9
W15	21 11	19 2	4 17	17 26	2 16	22 55	0 29	14 18	3 58	9 49	1 0	12 57	1 24	23 33	0 11	7 9
T 16	21 0	17 4	4 49	17 25	2 33	22 56	0 26	14 24	4 0	9 44	1 0	12 55	1 24	23 33	0 11	7 10
F 17	20 48	13 54	5 0	17 25	2 48	22 56	0 23	14 30	4 2	9 40	1 0	12 53	1 24	23 33	0 11	7 10
S 18	20 36	9 49	4 50	17 28	3 1	22 56	0 21	14 36	4 4	9 35	1 0	12 50	1 24	23 33	0 11	7 10
S 19	20 24	5 10	4 20	17 33	3 11	22 55	0 18	14 42	4 6	9 30	1 0	12 48	1 24	23 32	0 11	7 10
M20	20 12	0 20	3 34	17 40	3 19	22 53	0 15	14 49	4 8	9 25	1 0	12 46	1 24	23 32	0 11	7 11
T 21	19 59	4n22	2 35	17 48	3 25	22 50	0 13	14 55	4 10	9 20	1 0	12 43	1 24	23 32	0 11	7 11
W22	19 45	8 42	1 30	17 57	3 28	22 47	0 10	15 2	4 12	9 15	1 0	12 41	1 24	23 32	0 11	7 11
T 23	19 31	12 27	0 21	18 7	3 29	22 43	0 8	15 10	4 14	9 10	1 0	12 39	1 24	23 32	0 11	7 12
F 24	19 17	15 30	0s46	18 17	3 27	22 39	0 5	15 17	4 16	9 5	1 0	12 36	1 24	23 32	0 11	7 12
S 25	19 3	17 44	1 50	18 27	3 23	22 33	0 2	15 25	4 17	9 0	1 0	12 34	1 24	23 32	0 11	7 12
S 26	18 48	19 5	2 47	18 38	3 18	22 28	0s 0	15 32	4 19	8 55	1 0	12 31	1 24	23 32	0 11	7 13
M27	18 33	19 33	3 36	18 49	3 12	22 21	0 3	15 40	4 21	8 50	1 0	12 29	1 24	23 32	0 11	7 13
T 28	18 17	19 7	4 15	18 59	3 4	22 14	0 6	15 48	4 22	8 45	1 0	12 27	1 24	23 32	0 11	7 13
W29	18 2	17 51	4 42	19 9	2 55	22 6	0 8	15 56	4 23	8 40	1 0	12 24	1 24	23 32	0 11	7 14
T 30	17 45	15 49	4 56	19 19	2 45	21 57	0 11	16 4	4 25	8 35	1 0	12 22	1 24	23 32	0 11	7 14
F 31	17s29	13n 8	4s58	19s28	2n35	21s48	0s13	16n13	4n26	8s30	1s 0	12s19	1s24	23n32	0n11	7n14

Julian Day Number = 2524593.5, Delta T = 163.00 sec
Ecliptic obliquity = 23°24'40, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°32'07, Lahiri = 26°39'07

ASTRODIENST EPHEMERIS for the year 2200

geocentric

FEBRUARY 2200

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 44 20	11 ⁵³ 32	21 ⁰ 5	19 ²⁶ 30	23 ³⁰ 30	27 ⁰ R56	10 ¹ ♂51	1 ¹ ♂22	25 ⁰ R55	22 ⁰ Υ33	24 ⁰ R 7	4 ⁰ R38	5 ⁰ ♂13	4 ⁰ ♂38	21 ⁰ ♂17	S 1
S 2	8 48 16	12 ⁰ 54'27	3 ⁰ ♂ 1	19 ⁰ 45	24 ⁰ 46	27 ⁰ ♂35	11 ⁰ 4	1 ⁰ 29	25 ⁰ ♂53	22 ⁰ 34	24 ⁰ ♂ 6	4 ⁰ ♂25	5 ⁰ 10	4 ⁰ 44	21 ⁰ 23	S 2
M 3	8 52 13	13 ⁰ 55'22	15 ⁰ 1	20 ⁰ 11	26 ⁰ 1	27 ⁰ 13	11 ⁰ 18	1 ⁰ 36	25 ⁰ 52	22 ⁰ 35	24 ⁰ 4	4 ⁰ 13	5 ⁰ 7	4 ⁰ 51	21 ⁰ 28	M 3
T 4	8 56 9	14 ⁰ 56'16	27 ⁰ 6	20 ⁰ 42	27 ⁰ 16	26 ⁰ 50	11 ⁰ 32	1 ⁰ 43	25 ⁰ 50	22 ⁰ 36	24 ⁰ 3	4 ⁰ 5	5 ⁰ 4	4 ⁰ 58	21 ⁰ 34	T 4
W 5	9 0 6	15 ⁰ 57'08	9 ⁰ ♂20	21 ⁰ 19	28 ⁰ 31	26 ⁰ 28	11 ⁰ 46	1 ⁰ 50	25 ⁰ 49	22 ⁰ 37	24 ⁰ 1	4 ⁰ 0	5 ⁰ 1	5 ⁰ 4	21 ⁰ 39	W 5
T 6	9 4 2	16 ⁰ 58'01	21 ⁰ 45	22 ⁰ 0	29 ⁰ 46	26 ⁰ 5	11 ⁰ 59	1 ⁰ 57	25 ⁰ 48	22 ⁰ 38	24 ⁰ 0	3 ⁰ 58	4 ⁰ 57	5 ⁰ 11	21 ⁰ 44	T 6
F 7	9 7 59	17 ⁰ 58'52	4 ⁰ ♂26	22 ⁰ 45	1 ⁰ ♂ 1	25 ⁰ 42	12 ⁰ 13	2 ⁰ 4	25 ⁰ 46	22 ⁰ 39	23 ⁰ 58	3 ⁰ D57	4 ⁰ 54	5 ⁰ 18	21 ⁰ 49	F 7
S 8	9 11 55	18 ⁰ 59'42	17 ⁰ 26	23 ⁰ 35	2 ⁰ 16	25 ⁰ 18	12 ⁰ 27	2 ⁰ 11	25 ⁰ 45	22 ⁰ 41	23 ⁰ 57	3 ⁰ R58	4 ⁰ 51	5 ⁰ 25	21 ⁰ 54	S 8
S 9	9 15 52	20 ⁰ 0'32	0 ⁰ ♂49	24 ⁰ 28	3 ⁰ 31	24 ⁰ 54	12 ⁰ 41	2 ⁰ 19	25 ⁰ 44	22 ⁰ 42	23 ⁰ 56	3 ⁰ 57	4 ⁰ 48	5 ⁰ 31	21 ⁰ 59	S 9
M10	9 19 49	21 ⁰ 1'21	14 ⁰ 39	25 ⁰ 24	4 ⁰ 46	24 ⁰ 31	12 ⁰ 55	2 ⁰ 26	25 ⁰ 43	22 ⁰ 43	23 ⁰ 54	3 ⁰ 55	4 ⁰ 45	5 ⁰ 38	22 ⁰ 4	M10
T 11	9 23 45	22 ⁰ 2'09	28 ⁰ 56	26 ⁰ 23	6 ⁰ 1	24 ⁰ 7	13 ⁰ 9	2 ⁰ 33	25 ⁰ 42	22 ⁰ 44	23 ⁰ 53	3 ⁰ 51	4 ⁰ 41	5 ⁰ 45	22 ⁰ 9	T 11
W12	9 27 42	23 ⁰ 2'56	13 ⁰ ♂39	27 ⁰ 25	7 ⁰ 16	23 ⁰ 43	13 ⁰ 23	2 ⁰ 40	25 ⁰ 40	22 ⁰ 46	23 ⁰ 51	3 ⁰ 43	4 ⁰ 38	5 ⁰ 52	22 ⁰ 14	W12
T 13	9 31 38	24 ⁰ 3'42	28 ⁰ 42	28 ⁰ 29	8 ⁰ 31	23 ⁰ 19	13 ⁰ 37	2 ⁰ 47	25 ⁰ 39	22 ⁰ 47	23 ⁰ 50	3 ⁰ 34	4 ⁰ 35	5 ⁰ 58	22 ⁰ 18	T 13
F 14	9 35 35	25 ⁰ 4'26	13 ⁰ ♂♂8	29 ⁰ 36	9 ⁰ 46	22 ⁰ 55	13 ⁰ 51	2 ⁰ 54	25 ⁰ 38	22 ⁰ 49	23 ⁰ 48	3 ⁰ 24	4 ⁰ 32	6 ⁰ 5	22 ⁰ 23	F 14
S 15	9 39 31	26 ⁰ 5'10	29 ⁰ 14	0 ⁰ ♂45	11 ⁰ 1	22 ⁰ 31	14 ⁰ 6	3 ⁰ 2	25 ⁰ 38	22 ⁰ 50	23 ⁰ 47	3 ⁰ 13	4 ⁰ 29	6 ⁰ 12	22 ⁰ 28	S 15
S 16	9 43 28	27 ⁰ 5'52	14 ⁰ ♂20	1 ⁰ 55	12 ⁰ 16	22 ⁰ 7	14 ⁰ 20	3 ⁰ 9	25 ⁰ 37	22 ⁰ 51	23 ⁰ 45	3 ⁰ 4	4 ⁰ 26	6 ⁰ 18	22 ⁰ 32	S 16
M17	9 47 24	28 ⁰ 6'32	29 ⁰ 6	3 ⁰ 8	13 ⁰ 31	21 ⁰ 43	14 ⁰ 34	3 ⁰ 16	25 ⁰ 36	22 ⁰ 53	23 ⁰ 44	2 ⁰ 57	4 ⁰ 22	6 ⁰ 25	22 ⁰ 36	M17
T 18	9 51 21	29 ⁰ 7'11	13 ⁰ Υ26	4 ⁰ 22	14 ⁰ 46	21 ⁰ 20	14 ⁰ 48	3 ⁰ 23	25 ⁰ 35	22 ⁰ 54	23 ⁰ 42	2 ⁰ 53	4 ⁰ 19	6 ⁰ 32	22 ⁰ 41	T 18
W19	9 55 18	0 ⁰ ♂ 748	27 ⁰ 16	5 ⁰ 38	16 ⁰ 1	20 ⁰ 57	15 ⁰ 3	3 ⁰ 31	25 ⁰ 34	22 ⁰ 56	23 ⁰ 41	2 ⁰ D52	4 ⁰ 16	6 ⁰ 39	22 ⁰ 45	W19
T 20	9 59 14	1 ⁰ 8'24	10 ⁰ ♂38	6 ⁰ 56	17 ⁰ 16	20 ⁰ 34	15 ⁰ 17	3 ⁰ 38	25 ⁰ 34	22 ⁰ 57	23 ⁰ 40	2 ⁰ 52	4 ⁰ 13	6 ⁰ 45	22 ⁰ 49	T 20
F 21	10 3 11	2 ⁰ 8'58	23 ⁰ 33	8 ⁰ 15	18 ⁰ 31	20 ⁰ 12	15 ⁰ 31	3 ⁰ 45	25 ⁰ 33	22 ⁰ 59	23 ⁰ 38	2 ⁰ 52	4 ⁰ 10	6 ⁰ 52	22 ⁰ 53	F 21
S 22	10 7 7	3 ⁰ 9'30	6 ⁰ ♂ 6	9 ⁰ 35	19 ⁰ 46	19 ⁰ 49	15 ⁰ 46	3 ⁰ 53	25 ⁰ 33	23 ⁰ 1	23 ⁰ 37	2 ⁰ R53	4 ⁰ 7	6 ⁰ 59	22 ⁰ 57	S 22
S 23	10 11 4	4 ⁰ 10'00	18 ⁰ 21	10 ⁰ 57	21 ⁰ 1	19 ⁰ 28	16 ⁰ 0	4 ⁰ 0	25 ⁰ 32	23 ⁰ 2	23 ⁰ 35	2 ⁰ 51	4 ⁰ 3	7 ⁰ 6	23 ⁰ 1	S 23
M24	10 15 0	5 ⁰ 10'29	0 ⁰ ♂25	12 ⁰ 20	22 ⁰ 16	19 ⁰ 7	16 ⁰ 14	4 ⁰ 7	25 ⁰ 32	23 ⁰ 4	23 ⁰ 34	2 ⁰ 48	4 ⁰ 0	7 ⁰ 12	23 ⁰ 5	M24
T 25	10 18 57	6 ⁰ 10'55	12 ⁰ 20	13 ⁰ 44	23 ⁰ 31	18 ⁰ 46	16 ⁰ 29	4 ⁰ 14	25 ⁰ 31	23 ⁰ 5	23 ⁰ 32	2 ⁰ 42	3 ⁰ 57	7 ⁰ 19	23 ⁰ 9	T 25
W26	10 22 53	7 ⁰ 11'20	24 ⁰ 12	15 ⁰ 9	24 ⁰ 46	18 ⁰ 26	16 ⁰ 43	4 ⁰ 22	25 ⁰ 31	23 ⁰ 7	23 ⁰ 31	2 ⁰ 34	3 ⁰ 54	7 ⁰ 26	23 ⁰ 12	W26
T 27	10 26 50	8 ⁰ 11'43	6 ⁰ ♂ 4	16 ⁰ 35	26 ⁰ 1	18 ⁰ 6	16 ⁰ 58	4 ⁰ 29	25 ⁰ 31	23 ⁰ 9	23 ⁰ 30	2 ⁰ 24	3 ⁰ 51	7 ⁰ 32	23 ⁰ 16	T 27
F 28	10 30 47	9 ⁰ ♂12'04	17 ⁰ ♂57	18 ⁰ ♂ 3	27 ⁰ ♂16	17 ⁰ ♂48	17 ⁰ ♂12	4 ⁰ ♂36	25 ⁰ ♂30	23 ⁰ Υ11	23 ⁰ ♂28	2 ⁰ ♂14	3 ⁰ ♂47	7 ⁰ ♂39	23 ⁰ ♂19	F 28

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	17s12	9n55	4s47	19s37	2n25	21s38	0s16	16n21	4n27	8s25	1s 0	12s17	1s24	23n32	0n11	7n15
S 2	16 55	6 17	4 23	19 45	2 14	21 27	0 18	16 30	4 28	8 19	1 0	12 14	1 24	23 32	0 11	7 15
M 3	16 38	2 24	3 48	19 52	2 3	21 16	0 21	16 38	4 29	8 14	0 59	12 12	1 24	23 32	0 11	7 16
T 4	16 20	1s38	3 2	19 58	1 52	21 4	0 23	16 47	4 30	8 9	0 59	12 9	1 24	23 32	0 11	7 16
W 5	16 2	5 38	2 6	20 4	1 41	20 51	0 26	16 55	4 31	8 4	0 59	12 7	1 24	23 32	0 11	7 17
T 6	15 44	9 28	1 4	20 8	1 30	20 38	0 28	17 4	4 31	7 58	0 59	12 4	1 24	23 32	0 11	7 17
F 7	15 25	12 57	0n 3	20 12	1 19	20 24	0 30	17 12	4 32	7 53	0 59	12 2	1 24	23 32	0 11	7 18
S 8	15 7	15 53	1 11	20 15	1 8	20 10	0 33	17 21	4 32	7 48	0 59	11 59	1 24	23 32	0 11	7 18
S 9	14 48	18 3	2 17	20 16	0 57	19 55	0 35	17 29	4 33	7 42	0 59	11 57	1 24	23 31	0 11	7 19
M10	14 28	19 15	3 18	20 16	0 47	19 39	0 37	17 37	4 33	7 37	0 59	11 54	1 24	23 31	0 11	7 19
T 11	14 9	19 16	4 8	20 16	0 36	19 23	0 39	17 46	4 33	7 32	0 59	11 52	1 24	23 31	0 11	7 20
W12	13 49	18 0	4 44	20 14	0 26	19 6	0 42	17 54	4 33	7 26	0 59	11 49	1 24	23 31	0 11	7 20
T 13	13 29	15 29	5 1	20 10	0 16	18 49	0 44	18 2	4 33	7 21	0 59	11 46	1 24	23 31	0 11	7 21
F 14	13 9	11 52	4 57	20 6	0 7	18 31	0 46	18 9	4 33	7 15	0 59	11 44	1 24	23 31	0 11	7 21
S 15	12 48	7 29	4 32	20 1	0s 3	18 13	0 48	18 17	4 32	7 10	0 59	11 41	1 24	23 31	0 11	7 22
S 16	12 28	2 39	3 48	19 54	0 12	17 54	0 50	18 24	4 32	7 4	0 59	11 39	1 24	23 31	0 11	7 22
M17	12 7	2n14	2 49	19 46	0 21	17 35	0 52	18 32	4 31	6 59	0 59	11 36	1 24	23 31	0 11	7 23
T 18	11 46	6 51	1 42	19 37	0 29	17 15	0 54	18 39	4 31	6 53	0 59	11 34	1 24	23 31	0 11	7 23
W19	11 25	10 57	0 30	19 26	0 37	16 54	0 56	18 46	4 30	6 48	0 59	11 31	1 24	23 31	0 11	7 24
T 20	11 3	14 20	0s41	19 15	0 45	16 33	0 58	18 52	4 29	6 42	0 59	11 28	1 24	23 31	0 11	7 25
F 21	10 42	16 53	1 48	19 2	0 53	16 12	0 59	18 58	4 28	6 37	0 59	11 26	1 24	23 31	0 11	7 25
S 22	10 20	18 33	2 48	18 48	1 0	15 50	1 1	19 4	4 27	6 31	0 59	11 23	1 24	23 31	0 11	7 26
S 23	9 58	19 17	3 38	18 32	1 7	15 28	1 3	19 10	4 26	6 26	0 59	11 21	1 24	23 31	0 11	7 27
M24	9 36	19 7	4 18	18 16	1 14	15 5	1 5	19 16	4 25	6 20	0 59	11 18	1 24	23 31	0 11	7 27
T 25	9 14	18 5	4 46	17 58	1 20	14 42	1 6	19 21	4 23	6 14	0 59	11 15	1 25	23 31	0 11	7 28
W26	8 52	16 18	5 2	17 39	1 26	14 19	1 8	19 26	4 22	6 9	0 59	11 13	1 25	23 31	0 11	7 28
T 27	8 29	13 49	5 4	17 18	1 32	13 55	1 9	19 31	4 21	6 3	0 59	11 10	1 25	23 31	0 11	7 29
F 28	8s 7	10n46	4s54	16s56	1s37	13s31	1s11	19n35	4n19	5s58	0s59	11s 8	1s25	23n31	0n11	7n30

Julian Day Number = 2524624

ASTRODIENST EPHEMERIS for the year 2200
geocentric

MARCH 2200

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	10 34 43	10♈12'24	29♌54	19♍32	28♎31	17°R29	17♈27	4♉43	25°R30	23♊12	23°R27	2°R 3	3♌44	7♌46	23♍23	S 1
S 2	10 38 40	11°12'41	11♍57	21° 2	29°46	17♌12	17°41	4°51	25♊30	23°14	23♌25	1♍54	3°41	7°53	23°26	S 2
M 3	10 42 36	12°12'57	24° 7	22°33	1♈ 1	16°55	17°55	4°58	25°30	23°16	23°24	1°46	3°38	7°59	23°29	M 3
T 4	10 46 33	13°13'12	6♌24	24° 5	2°15	16°38	18°10	5° 5	25°D30	23°18	23°23	1°40	3°35	8° 6	23°32	T 4
W 5	10 50 29	14°13'24	18°50	25°38	3°30	16°23	18°24	5°12	25°30	23°20	23°21	1°37	3°32	8°13	23°35	W 5
T 6	10 54 26	15°13'35	1♌28	27°12	4°45	16° 8	18°39	5°19	25°30	23°21	23°20	1°D36	3°28	8°19	23°38	T 6
F 7	10 58 22	16°13'45	14°18	28°47	6° 0	15°53	18°54	5°27	25°30	23°23	23°19	1°37	3°25	8°26	23°41	F 7
S 8	11 2 19	17°13'53	27°24	0♈23	7°15	15°40	19° 8	5°34	25°30	23°25	23°17	1°38	3°22	8°33	23°44	S 8
S 9	11 6 15	18°13'59	10♍47	2° 1	8°30	15°27	19°23	5°41	25°30	23°27	23°16	1°39	3°19	8°40	23°46	S 9
M10	11 10 12	19°14'04	24°31	3°39	9°45	15°15	19°37	5°48	25°31	23°29	23°15	1°R40	3°16	8°46	23°49	M10
T 11	11 14 9	20°14'07	8♌35	5°19	11° 0	15° 4	19°52	5°55	25°31	23°31	23°13	1°38	3°13	8°53	23°51	T 11
W12	11 18 5	21°14'09	23° 0	6°59	12°14	14°54	20° 6	6° 2	25°32	23°33	23°12	1°35	3° 9	9° 0	23°54	W12
T 13	11 22 2	22°14'09	7♍42	8°41	13°29	14°44	20°21	6°10	25°32	23°35	23°11	1°30	3° 6	9° 7	23°56	T 13
F 14	11 25 58	23°14'08	22°35	10°24	14°44	14°35	20°35	6°17	25°32	23°37	23°10	1°24	3° 3	9°13	23°58	F 14
S 15	11 29 55	24°14'05	7♈32	12° 8	15°59	14°27	20°50	6°24	25°33	23°39	23° 8	1°18	3° 0	9°20	24° 0	S 15
S 16	11 33 51	25°14'00	22°23	13°53	17°14	14°20	21° 4	6°31	25°34	23°41	23° 7	1°13	2°57	9°27	24° 2	S 16
M17	11 37 48	26°13'52	7♊ 1	15°40	18°28	14°13	21°19	6°38	25°34	23°43	23° 6	1°10	2°53	9°33	24° 4	M17
T 18	11 41 44	27°13'43	21°19	17°27	19°43	14° 8	21°33	6°45	25°35	23°45	23° 5	1° 8	2°50	9°40	24° 6	T 18
W19	11 45 41	28°13'32	5♌11	19°16	20°58	14° 3	21°48	6°52	25°36	23°47	23° 4	1°D 7	2°47	9°47	24° 7	W19
T 20	11 49 38	29°13'19	18°38	21° 6	22°13	13°59	22° 2	6°59	25°37	23°49	23° 3	1° 8	2°44	9°54	24° 9	T 20
F 21	11 53 34	0♊13'04	1♌40	22°57	23°27	13°55	22°17	7° 5	25°38	23°51	23° 1	1°10	2°41	10° 0	24°10	F 21
S 22	11 57 31	1°12'46	14°19	24°49	24°42	13°53	22°31	7°12	25°38	23°54	23° 0	1°12	2°38	10° 7	24°12	S 22
S 23	12 1 27	2°12'26	26°39	26°43	25°57	13°51	22°46	7°19	25°39	23°56	22°59	1°R13	2°34	10°14	24°13	S 23
M24	12 5 24	3°12'04	8♌45	28°37	27°11	13°50	23° 0	7°26	25°40	23°58	22°58	1°13	2°31	10°20	24°14	M24
T 25	12 9 20	4°11'40	20°42	0♊33	28°26	13°D50	23°14	7°33	25°42	24° 0	22°57	1°11	2°28	10°27	24°15	T 25
W26	12 13 17	5°11'13	2♌35	2°30	29°41	13°50	23°29	7°40	25°43	24° 2	22°56	1° 9	2°25	10°34	24°16	W26
T 27	12 17 13	6°10'44	14°27	4°28	0♊55	13°52	23°43	7°46	25°44	24° 4	22°55	1° 5	2°22	10°41	24°17	T 27
F 28	12 21 10	7°10'13	26°22	6°27	2°10	13°53	23°58	7°53	25°45	24° 7	22°54	1° 1	2°18	10°47	24°18	F 28
S 29	12 25 7	8° 9'40	8♍24	8°28	3°25	13°56	24°12	8° 0	25°46	24° 9	22°53	0°57	2°15	10°54	24°18	S 29
S 30	12 29 3	9° 9'04	20°34	10°29	4°39	13°59	24°26	8° 6	25°48	24°11	22°52	0°54	2°12	11° 1	24°19	S 30
M31	12 33 0	10♊ 8'26	2♌55	12♊30	5♊54	14♌ 3	24♈40	8♈13	25♊49	24♊13	22♌51	0♍51	2♌ 9	11♌ 8	24♍19	M31

Day	☉	☾		♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊	♋	♌	♍	♎	♏			
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat			
S 1	7s44	7n16	4s30	16s33	1s42	13s 6	1s12	19n39	4n17	5s52	0s59	11s 5	1s25	23n31	0n11	7n31	1s37	22n23	9n14	12s10	12s45	13n20	18s17	4n58
S 2	7 21	3 27	3 54	16 9	1 47	12 41	1 13	19 43	4 16	5 46	0 59	11 2	1 25	23 31	0 11	7 31	1 37	22 24	9 14	12 7	12 44	13 19	18 16	4 59
M 3	6 58	0s32	3 8	15 44	1 51	12 16	1 15	19 47	4 14	5 41	0 59	11 0	1 25	23 31	0 11	7 32	1 37	22 24	9 14	12 4	12 43	13 17	18 16	5 0
T 4	6 35	4 33	2 12	15 17	1 55	11 50	1 16	19 50	4 12	5 35	0 59	10 57	1 25	23 31	0 11	7 33	1 37	22 25	9 14	12 2	12 42	13 16	18 15	5 0
W 5	6 12	8 26	1 8	14 49	1 58	11 24	1 17	19 53	4 10	5 29	0 59	10 55	1 25	23 31	0 11	7 33	1 37	22 25	9 14	12 1	12 41	13 14	18 15	5 1
T 6	5 49	11 59	0 1	14 20	2 1	10 58	1 18	19 56	4 8	5 24	0 59	10 52	1 25	23 31	0 11	7 34	1 37	22 26	9 14	12 1	12 40	13 12	18 14	5 2
F 7	5 26	15 2	1n 8	13 49	2 4	10 31	1 19	19 58	4 6	5 18	0 59	10 50	1 25	23 31	0 11	7 35	1 37	22 26	9 14	12 1	12 38	13 11	18 14	5 2
S 8	5 2	17 22	2 15	13 18	2 7	10 5	1 20	20 0	4 4	5 12	1 0	10 47	1 25	23 31	0 11	7 35	1 37	22 26	9 14	12 2	12 37	13 9	18 13	5 3
S 9	4 39	18 48	3 16	12 45	2 9	9 37	1 21	20 2	4 2	5 7	1 0	10 44	1 25	23 31	0 11	7 36	1 37	22 27	9 14	12 2	12 36	13 7	18 13	5 4
M10	4 15	19 11	4 7	12 11	2 10	9 10	1 22	20 4	4 0	5 1	1 0	10 42	1 25	23 31	0 11	7 37	1 36	22 27	9 14	12 2	12 35	13 6	18 12	5 4
T 11	3 52	18 23	4 45	11 35	2 11	8 42	1 22	20 5	3 58	4 55	1 0	10 39	1 26	23 31	0 11	7 38	1 36	22 28	9 14	12 2	12 34	13 4	18 12	5 5
W12	3 28	16 25	5 6	10 59	2 12	8 15	1 23	20 6	3 56	4 50	1 0	10 37	1 26	23 31	0 11	7 38	1 36	22 28	9 14	12 1	12 33	13 3	18 11	5 6
T 13	3 5	13 21	5 8	10 21	2 12	7 46	1 24	20 7	3 53	4 44	1 0	10 34	1 26	23 31	0 11	7 39	1 36	22 28	9 14	11 59	12 32	13 1	18 10	5 6
F 14	2 41	9 24	4 49	9 42	2 12	7 18	1 24	20 7	3 51	4 38	1 0	10 32	1 26	23 31	0 11	7 40	1 36	22 29	9 14	11 57	12 31	12 59	18 10	5 7
S 15	2 17	4 51	4 11	9 2	2 12	6 50	1 25	20 7	3 49	4 33	1 0	10 29	1 26	23 31	0 11	7 41	1 36	22 29	9 14	11 55	12 30	12 58	18 9	5 8
S 16	1 54	0 2	3 15	8 20	2 11	6 21	1 25	20 7	3 47	4 27	1 0	10 27	1 26	23 31	0 11	7 41	1 36	22 29	9 14	11 53	12 29	12 56	18 9	5 8
M17	1 30	4n44	2 8	7 38	2 9	5 52	1 26	20 7	3 44	4 21	1 0	10 24	1 26	23 31	0 11	7 42	1 36	22 30	9 14	11 52	12 28	12 54	18 8	5 9
T 18	1 6	9 8	0 53	6 54	2 7	5 23	1 26	20 7	3 42	4 16	1 0	10 22	1 26	23 31	0 11	7 43	1 36	22 30	9 14	11 51	12 27	12 53	18 7	5 10
W19	0 42	12 53	0s22	6 9	2 5	4 54	1 26	20 6	3 40	4 10	1 0	10 19	1 26	23 31	0 11	7 44	1 36	22 30	9 14	11 51	12 25	12 51	18 7	5 10
T 20	0 19	15 50	1 34	5 24	2 2	4 25	1 27	20 5	3 37	4 4	1 0	10 17	1 26	23 31	0 11	7 45	1 36	22 31	9 13	11 51	12 24	12 50	18 6	5 11
F 21	0n 5	17 52	2 39	4 36	1 58	3 55	1 27	20 3	3 35	3 59	1 0	10 14	1 27	23 31	0 11	7 45	1 36	22 31	9 13	11 51	12 23	12 48	18 6	5 12
S 22	0 29	18 56	3 35	3 48	1 54	3 26	1 27	20 2	3 33	3 53	1 0	10 12	1 27	23 31	0 11	7 46	1 36	22 31	9 13	11 53	12 22	12 46	18 5	5 12
S 23	0 53	19 4	4 18	2 59	1 50	2 56	1 27	20 0	3 30	3 48	1 0	10 9	1 27	23 31	0 11	7 47	1 36	22 32	9 13	11 53	12 21	12 45	18 4	5 13
M24	1 16	18 18	4 50	2 9	1 45	2 26	1 27	19 58	3 28	3 42	1 0	10 7	1 27	23 31	0 11	7 48	1 36	22 32	9 13	11 53	12 20	12 43	18 4	5 14
T 25	1 40	16 44	5 8	1 18	1 39	1 57	1 27	19 56	3 26	3 36	1 0	10 4	1 27	23 31	0 11	7 49	1 36	22 32	9 13	11 52	12 19	12 41	18 3	5 14
W26	2 4	14 28	5 13	0 26	1 33	1 27	1 26	19 54	3 23	3 31	1 0	10 2	1 27	23 31	0 11	7 49	1 36	22 32	9 13	11 52	12 18	12 40	18 2	5 15
T 27	2 27	11 36	5 5	0n27	1 27	0 57	1 26	19 51	3 21	3 25	1 0	10 0	1 27	23 31	0 11	7 50	1 36	22 33	9 13	11 50	12 17	12 38	18 2	5 16
F 28	2 51	8 16	4 44	1 20	1 20	0 27	1 26	19 48	3 19	3 19	1 1	9 57	1 27	23 32	0 11	7 51	1 36	22 33	9 13	11 49	12 16	12 36	18 1	5 17
S 29	3 14	4 33	4 9	2 15	1 12	0n 3	1 25	19 45	3 16	3 14	1 1	9 55	1 27	23 32	0 11	7 52	1 36	22 33	9 13	11 48	12 15	12 35	18 0	5 18
S 30	3 37	0 37	3 24	3 10	1 4	0 33	1 25	19 42	3 14	3 8	1 1	9 53	1 28	23 32	0 11	7 53	1 36	22 33	9 12	11 46	12 13	12 33	18 0	5 18
M31	4n 1	3s25	2s28	4n 5	0s55	1n 3	1s24	19n39	3n12	3s 3	1s 1	9s50	1s28	23n32	0n11	7n53	1s36	22n34	9n12	11s45	12s12	12n31	17s59	5n19

Julian Day Number = 2524652.5, Delta T = 163.16 sec
Ecliptic obliquity = 23°24'40, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°32'15, Lahiri = 26°39'15

ASTRODIENST EPHEMERIS for the year 2200

geocentric

MAY 2200

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 35 13	10♈33'02	20♎27	27♊43	14♋18	20♌46	1♍44	11♎11	26♏54	25♐23	22♑R35	0°R51	0♎30	14♏36	23°R47	T 1
F 2	14 39 9	11°31'21	4♊3	27°56	15°32	21° 6	1°57	11°16	26°57	25°25	22♌35	0♎51	0°27	14°43	23♊44	F 2
S 3	14 43 6	12°29'39	17°53	28° 3	16°46	21°27	2° 9	11°21	27° 0	25°27	22°35	0°49	0°24	14°49	23°42	S 3
S 4	14 47 2	13°27'55	1♋53	28°R 4	18° 0	21°48	2°22	11°25	27° 2	25°29	22°35	0°48	0°21	14°56	23°39	S 4
M 5	14 50 59	14°26'10	16° 1	28° 1	19°14	22° 9	2°35	11°30	27° 5	25°32	22°D35	0°46	0°18	15° 3	23°36	M 5
T 6	14 54 56	15°24'23	0♋14	27°52	20°28	22°30	2°47	11°34	27° 8	25°34	22°35	0°45	0°15	15° 9	23°33	T 6
W 7	14 58 52	16°22'35	14°28	27°38	21°42	22°52	3° 0	11°39	27°11	25°36	22°35	0°D45	0°11	15°16	23°31	W 7
T 8	15 2 49	17°20'45	28°40	27°20	22°56	23°14	3°12	11°43	27°14	25°38	22°35	0°45	0° 8	15°23	23°28	T 8
F 9	15 6 45	18°18'54	12♋50	26°58	24°10	23°37	3°24	11°48	27°17	25°40	22°35	0°46	0° 5	15°30	23°25	F 9
S 10	15 10 42	19°17'01	26°54	26°32	25°24	24° 0	3°37	11°52	27°20	25°42	22°35	0°47	0° 2	15°36	23°22	S 10
S 11	15 14 38	20°15'07	10♍50	26° 3	26°38	24°23	3°49	11°56	27°23	25°44	22°36	0°48	29♎59	15°43	23°18	S 11
M12	15 18 35	21°13'11	24°37	25°31	27°52	24°46	4° 1	12° 0	27°26	25°47	22°36	0°R49	29°55	15°50	23°15	M12
T 13	15 22 31	22°11'14	8♋12	24°57	29° 6	25°10	4°13	12° 4	27°29	25°49	22°36	0°49	29°52	15°56	23°12	T 13
W14	15 26 28	23° 9'16	21°33	24°22	0♎20	25°34	4°25	12° 8	27°32	25°51	22°36	0°48	29°49	16° 3	23° 9	W14
T 15	15 30 25	24° 7'16	4♎40	23°46	1°34	25°58	4°37	12°11	27°35	25°53	22°37	0°46	29°46	16°10	23° 5	T 15
F 16	15 34 21	25° 5'14	17°31	23°10	2°48	26°23	4°48	12°15	27°38	25°55	22°37	0°42	29°43	16°17	23° 2	F 16
S 17	15 38 18	26° 3'11	0♎6	22°34	4° 1	26°47	5° 0	12°19	27°41	25°57	22°37	0°38	29°40	16°23	22°58	S 17
S 18	15 42 14	27° 1'06	12°27	22° 0	5°15	27°12	5°12	12°22	27°44	25°59	22°38	0°34	29°36	16°30	22°55	S 18
M19	15 46 11	27°59'00	24°36	21°27	6°29	27°38	5°23	12°26	27°48	26° 1	22°38	0°30	29°33	16°37	22°51	M19
T 20	15 50 7	28°56'51	6♌35	20°56	7°43	28° 3	5°34	12°29	27°51	26° 3	22°38	0°27	29°30	16°43	22°48	T 20
W21	15 54 4	29°54'41	18°29	20°28	8°57	28°29	5°46	12°32	27°54	26° 5	22°39	0°25	29°27	16°50	22°44	W21
T 22	15 58 0	0♎52'30	0♎21	20° 3	10°10	28°55	5°57	12°36	27°57	26° 7	22°39	0°D24	29°24	16°57	22°40	T 22
F 23	16 1 57	1°50'16	12°17	19°41	11°24	29°21	6° 8	12°39	28° 1	26° 9	22°40	0°25	29°21	17° 4	22°37	F 23
S 24	16 5 54	2°48'01	24°22	19°23	12°38	29°48	6°19	12°42	28° 4	26°11	22°40	0°26	29°17	17°10	22°33	S 24
S 25	16 9 50	3°45'44	6♎40	19°10	13°52	0♎14	6°30	12°45	28° 7	26°13	22°41	0°28	29°14	17°17	22°29	S 25
M26	16 13 47	4°43'26	19°14	19° 0	15° 5	0°41	6°41	12°48	28°11	26°14	22°41	0°29	29°11	17°24	22°25	M26
T 27	16 17 43	5°41'06	2♎10	18°55	16°19	1° 9	6°51	12°50	28°14	26°16	22°42	0°R30	29° 8	17°30	22°21	T 27
W28	16 21 40	6°38'45	15°27	18°D54	17°33	1°36	7° 2	12°53	28°17	26°18	22°43	0°29	29° 5	17°37	22°17	W28
T 29	16 25 36	7°36'23	29° 7	18°58	18°46	2° 3	7°12	12°55	28°21	26°20	22°43	0°26	29° 1	17°44	22°13	T 29
F 30	16 29 33	8°33'59	13♊8	19° 7	20° 0	2°31	7°23	12°58	28°24	26°22	22°44	0°22	28°58	17°51	22° 9	F 30
S 31	16 33 29	9♎31'35	27♊26	19♋20	21♎14	2♎59	7♍33	13♋0	28♎28	26♍24	22♌45	0♎17	28♎55	17♌57	22♊5	S 31

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
T 1	14n58	16s 8	1n46	22n12	2n38	15n27	0s41	16n35	2n 9	0s18	1s 4	8s47	1s33	23n33
F 2	15 16	18 5	2 54	22 9	2 32	15 51	0 39	16 27	2 7	0 13	1 4	8 46	1 33	23 34
S 3	15 34	19 1	3 52	22 3	2 25	16 14	0 37	16 19	2 5	0 8	1 4	8 44	1 33	23 34
S 4	15 52	18 47	4 37	21 55	2 17	16 37	0 35	16 10	2 4	0 3	1 5	8 43	1 33	23 34
M 5	16 9	17 24	5 6	21 45	2 7	16 59	0 33	16 2	2 2	0n 2	1 5	8 41	1 33	23 34
T 6	16 26	14 56	5 16	21 32	1 56	17 21	0 31	15 53	2 0	0 7	1 5	8 39	1 34	23 34
W 7	16 43	11 34	5 7	21 18	1 44	17 43	0 28	15 45	1 59	0 12	1 5	8 38	1 34	23 34
T 8	16 59	7 33	4 39	21 1	1 30	18 4	0 26	15 36	1 57	0 16	1 5	8 36	1 34	23 34
F 9	17 16	3 7	3 55	20 42	1 16	18 24	0 24	15 27	1 55	0 21	1 5	8 35	1 34	23 34
S 10	17 32	1n28	2 56	20 21	1 1	18 45	0 21	15 18	1 54	0 26	1 5	8 34	1 34	23 34
S 11	17 47	5 56	1 48	19 59	0 45	19 4	0 19	15 8	1 52	0 31	1 6	8 32	1 35	23 34
M12	18 3	10 3	0 34	19 35	0 29	19 23	0 17	14 59	1 51	0 35	1 6	8 31	1 35	23 34
T 13	18 18	13 35	0s41	19 10	0 12	19 42	0 14	14 50	1 49	0 40	1 6	8 30	1 35	23 34
W14	18 32	16 20	1 52	18 45	0s 6	20 0	0 12	14 40	1 47	0 44	1 6	8 28	1 35	23 34
T 15	18 47	18 10	2 55	18 19	0 23	20 17	0 10	14 30	1 46	0 49	1 6	8 27	1 35	23 34
F 16	19 1	19 2	3 49	17 53	0 41	20 34	0 7	14 21	1 44	0 53	1 6	8 26	1 36	23 34
S 17	19 15	18 55	4 30	17 27	0 58	20 51	0 5	14 11	1 43	0 58	1 7	8 25	1 36	23 34
S 18	19 28	17 53	4 58	17 2	1 15	21 7	0 2	14 1	1 41	1 2	1 7	8 23	1 36	23 35
M19	19 41	16 4	5 11	16 37	1 32	21 22	0 0	13 51	1 40	1 7	1 7	8 22	1 36	23 35
T 20	19 54	13 35	5 11	16 14	1 48	21 37	0n 2	13 41	1 38	1 11	1 7	8 21	1 36	23 35
W21	20 6	10 33	4 58	15 52	2 3	21 51	0 5	13 30	1 37	1 15	1 7	8 20	1 37	23 35
T 22	20 19	7 6	4 32	15 31	2 18	22 4	0 7	13 20	1 36	1 20	1 7	8 19	1 37	23 35
F 23	20 30	3 21	3 53	15 13	2 31	22 17	0 10	13 9	1 34	1 24	1 8	8 18	1 37	23 35
S 24	20 42	0s35	3 5	14 56	2 44	22 29	0 12	12 59	1 33	1 28	1 8	8 17	1 37	23 35
S 25	20 53	4 35	2 7	14 41	2 55	22 41	0 15	12 48	1 31	1 32	1 8	8 16	1 38	23 35
M26	21 3	8 28	1 1	14 29	3 5	22 52	0 17	12 37	1 30	1 36	1 8	8 15	1 38	23 35
T 27	21 14	12 4	0n 9	14 18	3 15	23 2	0 19	12 26	1 29	1 40	1 8	8 15	1 38	23 35
W28	21 24	15 10	1 21	14 10	3 23	23 11	0 22	12 15	1 27	1 44	1 9	8 14	1 38	23 35
T 29	21 33	17 30	2 29	14 4	3 30	23 20	0 24	12 4	1 26	1 48	1 9	8 13	1 38	23 35
F 30	21 42	18 52	3 31	14 1	3 36	23 29	0 27	11 53	1 25	1 52	1 9	8 12	1 39	23 35
S 31	21n51	19s 3	4n20	14n 0	3s41	23n36	0n29	11n42	1n23	1n56	1s 9	8s11	1s39	23n35

Julian Day Number = 2524713.5, Delta T = 163.32 sec
 Ecliptic obliquity = 23°24'40, Nutation = 0°00'08, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°32'23, Lahiri = 26°39'24

ASTRODIENST EPHEMERIS for the year 2200

geocentric

JUNE 2200

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 26	10 ^{II} 29'09	11 ^{III} 54	19 ^{III} 37	22 ^{II} 27	3 ^{III} 27	7 ^{VI} 43	13 ^{III} 3	28 ^{II} 31	26 ^{VI} 25	22 ^{II} 46	0 ^R 11	28 ^{II} 52	18 ^{II} 4	22 ^R 1	S 1
M 2	16 41 23	11 ^{II} 26'42	26 ^{II} 28	19 ^{II} 59	23 ^{II} 41	3 ^{II} 56	7 ^{II} 53	13 ^{II} 5	28 ^{II} 34	26 ^{II} 27	22 ^{II} 46	0 ^{II} 5	28 ^{II} 49	18 ^{II} 11	21 ^{II} 57	M 2
T 3	16 45 19	12 ^{II} 24'14	11 ^{II} 0	20 ^{II} 25	24 ^{II} 54	4 ^{II} 24	8 ^{II} 3	13 ^{II} 7	28 ^{II} 38	26 ^{II} 29	22 ^{II} 47	0 ^{II} 0	28 ^{II} 46	18 ^{II} 18	21 ^{II} 53	T 3
W 4	16 49 16	13 ^{II} 21'45	25 ^{II} 25	20 ^{II} 55	26 ^{II} 8	4 ^{II} 53	8 ^{II} 13	13 ^{II} 9	28 ^{II} 41	26 ^{II} 30	22 ^{II} 48	29 ^{II} 57	28 ^{II} 42	18 ^{II} 24	21 ^{II} 49	W 4
T 5	16 53 12	14 ^{II} 19'16	9 ^{II} 40	21 ^{II} 29	27 ^{II} 22	5 ^{II} 22	8 ^{II} 23	13 ^{II} 11	28 ^{II} 45	26 ^{II} 32	22 ^{II} 49	29 ^{II} D56	28 ^{II} 39	18 ^{II} 31	21 ^{II} 44	T 5
F 6	16 57 9	15 ^{II} 16'46	23 ^{II} 43	22 ^{II} 8	28 ^{II} 35	5 ^{II} 51	8 ^{II} 32	13 ^{II} 13	28 ^{II} 48	26 ^{II} 34	22 ^{II} 50	29 ^{II} 56	28 ^{II} 36	18 ^{II} 38	21 ^{II} 40	F 6
S 7	17 1 5	16 ^{II} 14'15	7 ^{II} 32	22 ^{II} 50	29 ^{II} 49	6 ^{II} 20	8 ^{II} 42	13 ^{II} 14	28 ^{II} 52	26 ^{II} 35	22 ^{II} 50	29 ^{II} 57	28 ^{II} 33	18 ^{II} 44	21 ^{II} 36	S 7
S 8	17 5 2	17 ^{II} 11'43	21 ^{II} 7	23 ^{II} 36	1 ^{II} 2	6 ^{II} 49	8 ^{II} 51	13 ^{II} 16	28 ^{II} 55	26 ^{II} 37	22 ^{II} 51	29 ^{II} 58	28 ^{II} 30	18 ^{II} 51	21 ^{II} 32	S 8
M 9	17 8 58	18 ^{II} 9'11	4 ^{II} 30	24 ^{II} 26	2 ^{II} 16	7 ^{II} 19	9 ^{II} 1	13 ^{II} 18	28 ^{II} 59	26 ^{II} 39	22 ^{II} 52	29 ^{II} R58	28 ^{II} 27	18 ^{II} 58	21 ^{II} 28	M 9
T 10	17 12 55	19 ^{II} 6'38	17 ^{II} 41	25 ^{II} 20	3 ^{II} 29	7 ^{II} 49	9 ^{II} 10	13 ^{II} 19	29 ^{II} 2	26 ^{II} 40	22 ^{II} 53	29 ^{II} 57	28 ^{II} 23	19 ^{II} 5	21 ^{II} 23	T 10
W11	17 16 52	20 ^{II} 4'04	0 ^{II} 40	26 ^{II} 17	4 ^{II} 43	8 ^{II} 19	9 ^{II} 19	13 ^{II} 20	29 ^{II} 6	26 ^{II} 42	22 ^{II} 54	29 ^{II} 53	28 ^{II} 20	19 ^{II} 11	21 ^{II} 19	W11
T 12	17 20 48	21 ^{II} 1'30	13 ^{II} 27	27 ^{II} 18	5 ^{II} 56	8 ^{II} 49	9 ^{II} 28	13 ^{II} 22	29 ^{II} 10	26 ^{II} 43	22 ^{II} 55	29 ^{II} 47	28 ^{II} 17	19 ^{II} 18	21 ^{II} 15	T 12
F 13	17 24 45	21 ^{II} 58'55	26 ^{II} 3	28 ^{II} 22	7 ^{II} 10	9 ^{II} 19	9 ^{II} 36	13 ^{II} 23	29 ^{II} 13	26 ^{II} 45	22 ^{II} 56	29 ^{II} 39	28 ^{II} 14	19 ^{II} 25	21 ^{II} 11	F 13
S 14	17 28 41	22 ^{II} 56'19	8 ^{II} 28	29 ^{II} 29	8 ^{II} 23	9 ^{II} 50	9 ^{II} 45	13 ^{II} 24	29 ^{II} 17	26 ^{II} 46	22 ^{II} 57	29 ^{II} 30	28 ^{II} 11	19 ^{II} 31	21 ^{II} 7	S 14
S 15	17 32 38	23 ^{II} 53'42	20 ^{II} 41	0 ^{II} 40	9 ^{II} 37	10 ^{II} 20	9 ^{II} 53	13 ^{II} 25	29 ^{II} 20	26 ^{II} 48	22 ^{II} 58	29 ^{II} 20	28 ^{II} 7	19 ^{II} 38	21 ^{II} 2	S 15
M16	17 36 34	24 ^{II} 51'04	2 ^{II} 45	1 ^{II} 54	10 ^{II} 50	10 ^{II} 51	10 ^{II} 2	13 ^{II} 26	29 ^{II} 24	26 ^{II} 49	23 ^{II} 0	29 ^{II} 10	28 ^{II} 4	19 ^{II} 45	20 ^{II} 58	M16
T 17	17 40 31	25 ^{II} 48'25	14 ^{II} 42	3 ^{II} 11	12 ^{II} 3	11 ^{II} 22	10 ^{II} 10	13 ^{II} 26	29 ^{II} 27	26 ^{II} 50	23 ^{II} 1	29 ^{II} 2	28 ^{II} 1	19 ^{II} 52	20 ^{II} 54	T 17
W18	17 44 27	26 ^{II} 45'46	26 ^{II} 34	4 ^{II} 31	13 ^{II} 17	11 ^{II} 53	10 ^{II} 18	13 ^{II} 27	29 ^{II} 31	26 ^{II} 52	23 ^{II} 2	28 ^{II} 55	27 ^{II} 58	19 ^{II} 58	20 ^{II} 50	W18
T 19	17 48 24	27 ^{II} 43'05	8 ^{II} 25	5 ^{II} 55	14 ^{II} 30	12 ^{II} 24	10 ^{II} 26	13 ^{II} 28	29 ^{II} 34	26 ^{II} 53	23 ^{II} 3	28 ^{II} 51	27 ^{II} 55	20 ^{II} 5	20 ^{II} 46	T 19
F 20	17 52 21	28 ^{II} 40'24	20 ^{II} 19	7 ^{II} 21	15 ^{II} 44	12 ^{II} 55	10 ^{II} 34	13 ^{II} 28	29 ^{II} 38	26 ^{II} 54	23 ^{II} 4	28 ^{II} 49	27 ^{II} 52	20 ^{II} 12	20 ^{II} 42	F 20
S 21	17 56 17	29 ^{II} 37'42	2 ^{II} 21	8 ^{II} 51	16 ^{II} 57	13 ^{II} 27	10 ^{II} 41	13 ^{II} 28	29 ^{II} 42	26 ^{II} 56	23 ^{II} 5	28 ^{II} D49	27 ^{II} 48	20 ^{II} 18	20 ^{II} 37	S 21
S 22	18 0 14	0 ^{II} 34'59	14 ^{II} 37	10 ^{II} 23	18 ^{II} 10	13 ^{II} 58	10 ^{II} 49	13 ^{II} 29	29 ^{II} 45	26 ^{II} 57	23 ^{II} 7	28 ^{II} 49	27 ^{II} 45	20 ^{II} 25	20 ^{II} 33	S 22
M23	18 4 10	1 ^{II} 32'15	27 ^{II} 11	11 ^{II} 59	19 ^{II} 24	14 ^{II} 30	10 ^{II} 56	13 ^{II} 29	29 ^{II} 49	26 ^{II} 58	23 ^{II} 8	28 ^{II} R50	27 ^{II} 42	20 ^{II} 32	20 ^{II} 29	M23
T 24	18 8 7	2 ^{II} 29'30	10 ^{II} 8	13 ^{II} 37	20 ^{II} 37	15 ^{II} 2	11 ^{II} 3	13 ^{II} R29	29 ^{II} 52	26 ^{II} 59	23 ^{II} 9	28 ^{II} 49	27 ^{II} 39	20 ^{II} 38	20 ^{II} 25	T 24
W25	18 12 3	3 ^{II} 26'45	23 ^{II} 31	15 ^{II} 19	21 ^{II} 50	15 ^{II} 34	11 ^{II} 10	13 ^{II} 29	29 ^{II} 56	27 ^{II} 0	23 ^{II} 11	28 ^{II} 47	27 ^{II} 36	20 ^{II} 45	20 ^{II} 21	W25
T 26	18 16 0	4 ^{II} 23'59	7 ^{II} 22	17 ^{II} 3	23 ^{II} 3	16 ^{II} 6	11 ^{II} 17	13 ^{II} 29	29 ^{II} 59	27 ^{II} 1	23 ^{II} 12	28 ^{II} 42	27 ^{II} 33	20 ^{II} 52	20 ^{II} 17	T 26
F 27	18 19 56	5 ^{II} 21'13	21 ^{II} 38	18 ^{II} 50	24 ^{II} 17	16 ^{II} 39	11 ^{II} 24	13 ^{II} 28	0 ^{II} 3	27 ^{II} 3	23 ^{II} 13	28 ^{II} 35	27 ^{II} 29	20 ^{II} 59	20 ^{II} 13	F 27
S 28	18 23 53	6 ^{II} 18'26	6 ^{II} 17	20 ^{II} 40	25 ^{II} 30	17 ^{II} 11	11 ^{II} 30	13 ^{II} 28	0 ^{II} 7	27 ^{II} 4	23 ^{II} 15	28 ^{II} 26	27 ^{II} 26	21 ^{II} 5	20 ^{II} 9	S 28
S 29	18 27 50	7 ^{II} 15'39	21 ^{II} 10	22 ^{II} 33	26 ^{II} 43	17 ^{II} 44	11 ^{II} 37	13 ^{II} 28	0 ^{II} 10	27 ^{II} 5	23 ^{II} 16	28 ^{II} 16	27 ^{II} 23	21 ^{II} 12	20 ^{II} 5	S 29
M30	18 31 46	8 ^{II} 12'52	6 ^{II} 8	24 ^{II} 29	27 ^{II} 56	18 ^{II} 16	11 ^{II} 43	13 ^{II} 27	0 ^{II} 14	27 ^{II} 6	23 ^{II} 17	28 ^{II} 7	27 ^{II} 20	21 ^{II} 19	20 ^{II} 1	M30

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
S 1	22n 0	18s 0	4n54	14n 0	3s45	23n43	0n31	11n30	1n22	2n 0	1s 9	8s11	1s39	23n35	0n11	8n40	1s37	22n26	9n 2	11s31	11s 4	10n46	17s18	5n53	17s 7	5n56	17s 7	5n56	17s 7
M 2	22 8	15 47	5 9	14 3	3 48	23 49	0 34	11 19	1 21	2 4	1 10	8 10	1 39	23 35	0 11	8 41	1 37	22 25	9 2	11 29	11 2	10 44	17 18	5 53	17 18	5 53	17 18	5 53	17 18
T 3	22 15	12 35	5 4	14 9	3 49	23 55	0 36	11 7	1 20	2 7	1 10	8 10	1 40	23 35	0 11	8 42	1 37	22 25	9 1	11 28	11 1	10 42	17 17	5 53	17 17	5 53	17 17	5 53	17 17
W 4	22 23	8 38	4 40	14 16	3 50	23 59	0 38	10 55	1 18	2 11	1 10	8 9	1 40	23 35	0 11	8 42	1 37	22 24	9 1	11 26	11 0	10 41	17 17	5 54	17 17	5 54	17 17	5 54	17 17
T 5	22 29	4 15	3 58	14 24	3 50	24 4	0 40	10 44	1 17	2 15	1 10	8 8	1 40	23 35	0 11	8 43	1 37	22 24	9 1	11 26	10 59	10 39	17 16	5 54	17 16	5 54	17 16	5 54	17 16
F 6	22 36	0n19	3 3	14 35	3 49	24 7	0 43	10 32	1 16	2 18	1 11	8 8	1 40	23 35	0 11	8 43	1 37	22 23	9 1	11 26	10 58	10 37	17 16	5 54	17 16	5 54	17 16	5 54	17 16
S 7	22 42	4 48	1 58	14 47	3 47	24 10	0 45	10 20	1 15	2 22	1 11	8 8	1 41	23 35	0 11	8 44	1 37	22 23	9 1	11 26	10 57	10 36	17 15	5 54	17 15	5 54	17 15	5 54	17 15
S 8	22 48	8 58	0 48	15 1	3 45	24 12	0 47	10 8	1 13	2 25	1 11	8 7	1 41	23 36	0 11	8 44	1 37	22 22	9 1	11 27	10 56	10 34	17 15	5 54	17 15	5 54	17 15	5 54	17 15
M 9	22 53	12 37	0s24	15 17	3 41	24 13	0 49	9 56	1 12	2 29	1 11	8 7	1 41	23 36	0 11	8 45	1 37	22 22	9 0	11 27	10 54	10 32	17 14	5 55	17 14	5 55	17 14	5 55	17 14
T 10	22 58	15 35	1 34	15 33	3 37	24 13	0 51	9 44	1 11	2 32	1 11	8 6	1 41	23 36	0 11	8 45	1 37	22 21	9 0	11 26	10 53	10 30	17 14	5 55	17 14	5 55	17 14	5 55	17 14
W11	23 2	17 42	2 37	15 51	3 32	24 13	0 54	9 31	1 10	2 35	1 12	8 6	1 41	23 36	0 11	8 46	1 38	22 21	9 0	11 25	10 52	10 29	17 13	5 55	17 13	5 55	17 13	5 55	17 13
T 12	23 6	18 53	3 32	16 11	3 27	24 12	0 56	9 19	1 9	2 39	1 12	8 6	1 42	23 36	0 11	8 46	1 38	22 21	9 0	11 23	10 51	10 27	17 13	5 55	17 13	5 55	17 13	5 55	17 13
F 13	23 10	19 6	4 15	16 31	3 20	24 11	0 58	9 6	1 7	2 42	1 12	8 6	1 42	23 36	0 11	8 47	1 38	22 20	9 0	11 20	10 50	10 25	17 12	5 55	17 12	5 55	17 12	5 55	17 12
S 14	23 13	18 24	4 45	16 52	3 14	24 8	1 0	8 54	1 6	2 45	1 12	8 5	1 42	23 36	0 11	8 47	1 38	22 20	9 0	11 17	10 49	10 23	17 12	5 56	17 12	5 56	17 12	5 56	17 12
S 15	23 16	16 51	5 2	17 14	3 6	24 5	1 2	8 41	1 5	2 48	1 13	8 5	1 42	23 36	0 11	8 48	1 38	22 19	8 59	11 13	10 48	10 22	17 12	5 56	17 12	5 56	17 12	5 56	17 12
M16	23 19	14 35	5 4	17 36	2 58	24 1	1 4	8 29	1 4	2 51	1 13	8 5	1 43	23 36	0 11	8 48	1 38	22 19	8 59	11 10	10 47	10 20	17 11	5 56	17 11	5 56	17 11	5 56	17 11
T 17	23 21	11 43	4 54	17 59	2 50	23 57	1 5	8 16	1 3	2 54	1 13	8 5	1 43	23 36	0 11	8 49	1 38	22 18	8 59	11 7	10 45	10 18	17 11	5 56	17 11	5 56	17 11	5 56	17 11
W18	23 22	8 24	4 31	18 23	2 41	23 52	1 7	8 3	1 2	2 57	1 13	8 5	1 43	23 36	0 11	8 49	1 38	22 17	8 59	11 5	10 44	10 16	17 10	5 56	17 10	5 56	17 10	5 56	17 10
T 19	23 23	4 45	3 56	18 47	2 31	23 46	1 9	7 50	1 1	3 0	1 14	8 5	1 43	23 36	0 11	8 50	1 38	22 17	8 59	11 3	10 43	10 15	17 10	5 56	17 10	5 56	17 10	5 56	17 10
F 20	23 24	0 54	3 11	19 11	2 21	23 39	1 11	7 37	0 59	3 3	1 14	8 5	1 44	23 36	0 11	8 50	1 38	22 16	8 59	11 2	10 42	10 13	17 10	5 56	17 10	5 56	17 10	5 56	17 10
S 21	23 25	3s 1	2 17	19 35	2 11	23 32	1 13	7 24	0 58	3 5	1 14	8 5	1 44	23 36	0 11	8 50	1 38	22 16	8 59	11 2	10 41	10 11	17 9	5 56	17 9	5 56	17 9	5 56	17 9
S 22	23 25	6 55	1 15	19 59	2 1	23 24	1 14	7 11	0 57	3 8	1 14	8 5	1 44	23 36	0 11	8 51	1 38	22 15	8 59	11 3	10 40	10 9	17 9	5 56	17 9	5 56	17 9	5 56	17 9
M23	23 24	10 36	0 9	20 23	1 50	23 16	1 16	6 57	0 56	3 11	1 14	8 6	1 44	23 36	0 11	8 51	1 38	22 15	8 58	11 3	10 39	10 8	17 9	5 56	17 9	5 56	17 9	5 56	17 9
T 24	23 23	13 53	1n 0	20 47	1 39	23 6	1 17	6 44	0 55	3 13	1 15	8 6	1 45	23 36	0 11	8 52	1 38	22 14	8 58	11 3	10 37	10 6	17 8	5 56	17 8	5 56	17 8	5 56	17 8
W25	23 22	16 34	2 8	21 10	1 27	22 56	1 19	6 31	0 54	3 16	1 15	8 6	1 45	23 36	0 11	8 52	1 38	22 14	8 58	11 2	10 36	10 4	17 8	5 56	17 8	5 56	17 8	5 56	17 8
T 26	23 20	18 23	3 10	21 32	1 16	22 46	1 20	6 17	0 53	3 18	1 15	8 6	1 45	23 36	0 11	8 52	1 38	22 13	8 58	11 0	10 35	10 2	17 8	5 56	17 8	5 56	17 8	5 56	17 8
F 27	23 18	19 7	4 2	21 53	1 4	22 34	1 22	6 4	0 52	3 21	1 16	8 7	1 45	23 36	0 11	8 53	1 38	22 13	8 58	10 57	10 34	10 0	17 7	5 56	17 7	5 56	17 7	5 56	17 7
S 28	23 16	18 36	4 40	22 13	0 50	22 23	1 23	5 50	0 51	3 23	1 16	8 7	1 45	23 36	0 11	8 53	1 38	22 12	8 58	10 54	10 33	9 59	17 7	5 56	17 7	5 56	17 7	5 56	17 7
S 29	23 13	16 48	5 0	22 32	0 40	22 10	1 24	5 37	0 50	3 25	1 16	8 7	1 46	23 36	0 11	8 53	1 38	22 11	8 58	10 51	10 32	9 57	17 7	5 56	17 7	5 56	17 7	5 56	17 7
M30	23n 9	13s53	4n59	22n49	0s29	21n57	1n26	5n23	0n49	3n27	1s16	8s 8	1s46	23n36	0n11	8n54	1s38	22n11	8n58	10s47	10s31	9n55	17s 7	5n56	17s 7	5n56	17s 7	5n56	17s 7

ASTRODIENST EPHEMERIS for the year 2200

geocentric

JULY 2200

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 35 43	9°51'00"4	21°33'3	26°11'26	29°51'10	18°11'49	11°11'49	13°11'26	0°51'17	27°11'7	23°11'19	27°11'58	27°11'17	21°11'25	19°11'58	T 1
W 2	18 39 39	10°7'17	5°47'47	28°27'0	0°11'23	19°22'11	11°55'13	13°26'26	0°21'27	27°8'8	23°20'27	27°13'52	27°13'21	21°32'19	19°54'54	W 2
T 3	18 43 36	11°4'29	20°13'0	0°29'29	1°36'19	19°55'12	1°13'25	13°25'0	0°24'27	27°9'9	23°22'27	27°49'27	27°10'10	21°39'19	19°50'19	T 3
F 4	18 47 32	12°1'42	4°19'19	2°33'2	2°49'20	20°28'12	7°13'24	13°24'0	0°28'27	27°9'9	23°23'27	27°47'27	27°7'7	21°46'19	19°46'19	F 4
S 5	18 51 29	12°58'55	18°5'4	4°39'4	4°2'21	21°1'12	12°12'13	13°23'0	0°31'27	27°10'10	23°25'27	27°D47	27°4'4	21°52'19	19°43'19	S 5
S 6	18 55 25	13°56'08	1°31'6	6°46'5	5°15'21	21°35'12	12°17'13	13°22'0	0°35'27	27°11'11	23°26'27	27°R47	27°1'1	21°59'19	19°39'19	S 6
M 7	18 59 22	14°53'21	14°39'8	8°55'6	6°28'22	22°8'12	12°22'13	13°21'0	0°38'27	27°12'12	23°28'27	27°46'26	26°58'22	22°6'19	19°36'19	M 7
T 8	19 3 19	15°50'34	27°33'11	11°4'7	7°41'22	22°42'12	12°27'13	13°19'0	0°42'27	27°13'13	23°29'27	27°43'26	26°54'22	22°12'19	19°32'19	T 8
W 9	19 7 15	16°47'48	10°11'14	13°14'8	8°54'23	23°16'12	12°32'13	13°18'0	0°45'27	27°13'13	23°31'27	27°38'26	26°51'22	22°19'19	19°29'19	W 9
T 10	19 11 12	17°45'02	22°44'15	15°24'10	10°8'23	23°50'12	12°37'13	13°16'0	0°49'27	27°14'14	23°32'27	27°29'26	26°48'22	22°26'19	19°25'19	T 10
F 11	19 15 8	18°42'16	5°4'4	17°34'11	11°21'24	24°24'12	12°41'13	13°15'0	0°52'27	27°15'15	23°34'27	27°18'26	26°45'22	22°33'19	19°22'19	F 11
S 12	19 19 5	19°39'30	17°16'19	19°44'12	12°34'24	24°58'12	12°45'13	13°13'0	0°56'27	27°16'16	23°36'27	27°5'26	26°42'22	22°39'19	19°19'19	S 12
S 13	19 23 1	20°36'44	29°21'21	21°54'13	13°47'25	25°32'12	12°50'13	13°11'0	0°59'27	27°16'16	23°37'26	26°51'26	26°39'22	22°46'19	19°15'19	S 13
M14	19 26 58	21°33'58	11°11'19	24°3'15	15°0'26	26°6'12	12°53'13	13°9'1	1°3'27	27°17'17	23°39'26	26°38'26	26°35'22	22°53'19	19°12'19	M14
T 15	19 30 54	22°31'13	23°12'26	16°13'26	16°13'26	26°41'12	12°57'13	13°7'1	1°6'27	27°17'17	23°40'26	26°26'26	26°32'22	22°59'19	19°9'19	T 15
W16	19 34 51	23°28'27	5°11'28	17°25'27	17°25'27	27°15'13	13°1'13	13°5'1	1°9'27	27°18'18	23°42'26	26°17'26	26°29'23	23°6'19	19°6'19	W16
T 17	19 38 48	24°25'41	16°51'0	18°38'27	18°38'27	27°50'13	13°4'13	13°3'1	1°13'27	27°18'18	23°44'26	26°10'26	26°26'23	23°13'19	19°3'19	T 17
F 18	19 42 44	25°22'56	28°44'2	19°51'28	19°51'28	28°24'13	13°7'13	13°1'1	1°16'27	27°19'19	23°45'26	26°6'26	26°23'23	23°20'19	19°0'19	F 18
S 19	19 46 41	26°20'11	10°45'4	21°4'28	21°4'28	28°59'13	13°10'12	12°59'1	1°20'27	27°19'19	23°47'26	26°4'26	26°19'23	23°26'19	18°57'19	S 19
S 20	19 50 37	27°17'25	22°58'6	6°30'8	22°17'29	29°34'13	13°13'12	12°56'1	1°23'27	27°19'19	23°49'26	26°4'26	26°16'23	23°33'19	18°55'19	S 20
M21	19 54 34	28°14'40	5°11'30	8°29'23	23°30'0	0°9'13	13°15'12	12°54'1	1°26'27	27°20'20	23°51'26	26°4'26	26°13'23	23°40'19	18°52'19	M21
T 22	19 58 30	29°11'55	18°23'10	24°43'0	24°43'0	0°44'13	13°18'12	12°51'1	1°29'27	27°20'20	23°52'26	26°3'26	26°10'23	23°46'19	18°49'19	T 22
W23	20 2 27	0°11'0	9°10'1	12°22'25	25°55'1	1°20'13	13°20'12	12°49'1	1°33'27	27°20'20	23°54'26	26°0'26	26°7'23	23°53'18	18°47'18	W23
T 24	20 6 23	1°6'26	15°35'14	14°16'27	14°16'27	1°55'13	13°22'12	12°46'1	1°36'27	27°21'21	23°56'25	25°55'26	26°4'24	24°0'18	18°44'18	T 24
F 25	20 10 20	2°3'41	29°55'16	16°8'28	16°8'28	2°30'13	13°24'12	12°43'1	1°39'27	27°21'21	23°58'25	25°48'26	26°0'24	24°6'18	18°42'18	F 25
S 26	20 14 17	3°0'57	14°34'17	17°59'29	17°59'29	3°6'13	13°26'12	12°40'1	1°42'27	27°21'21	23°59'25	25°38'25	25°57'24	24°13'18	18°40'18	S 26
S 27	20 18 13	3°58'14	29°46'19	19°47'0	19°47'0	3°42'13	13°27'12	12°37'1	1°45'27	27°21'21	24°1'25	25°27'25	25°54'24	24°20'18	18°37'18	S 27
M28	20 22 10	4°55'31	15°0'21	21°34'1	21°34'1	4°17'13	13°28'12	12°34'1	1°49'27	27°21'21	24°3'25	25°17'25	25°51'24	24°27'18	18°35'18	M28
T 29	20 26 6	5°52'48	0°11'23	23°19'3	23°19'3	4°53'13	13°29'12	12°31'1	1°52'27	27°21'21	24°5'25	25°8'25	25°48'24	24°33'18	18°33'18	T 29
W30	20 30 3	6°50'07	15°15'25	25°3'4	25°3'4	5°29'13	13°30'12	12°28'1	1°55'27	27°22'22	24°6'25	25°1'25	25°45'24	24°40'18	18°31'18	W30
T 31	20 33 59	7°47'26	29°56'26	14°44'5	14°44'5	6°5'13	13°31'12	12°25'1	1°58'27	27°R22	24°8'24	24°57'25	25°41'24	24°17'18	18°29'18	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23n 6	10s 4	4n38	23n 5	0s17	21n43	1n27	5n 9	0n48	3n30	1s17	8s 8	1s46	23n36	0n11	8n54
W 2	23 2	5 40	3 59	23 19	0 5	21 28	1 28	4 55	0 47	3 32	1 17	8 9	1 46	23 36	0 11	8 54
T 3	22 57	1 2	3 5	23 30	0n 6	21 13	1 29	4 41	0 46	3 34	1 17	8 9	1 47	23 36	0 11	8 55
F 4	22 52	3n34	2 1	23 40	0 17	20 58	1 30	4 27	0 45	3 36	1 17	8 10	1 47	23 36	0 11	8 55
S 5	22 47	7 52	0 51	23 47	0 27	20 42	1 31	4 13	0 44	3 37	1 18	8 10	1 47	23 36	0 11	8 55
S 6	22 41	11 41	0s20	23 52	0 37	20 25	1 32	3 59	0 43	3 39	1 18	8 11	1 47	23 36	0 11	8 55
M 7	22 35	14 49	1 28	23 54	0 47	20 7	1 32	3 45	0 42	3 41	1 18	8 12	1 48	23 36	0 11	8 56
T 8	22 28	17 9	2 31	23 53	0 56	19 49	1 33	3 31	0 41	3 43	1 18	8 12	1 48	23 36	0 11	8 56
W 9	22 21	18 35	3 24	23 49	1 4	19 31	1 34	3 17	0 40	3 44	1 19	8 13	1 48	23 36	0 11	8 56
T 10	22 14	19 6	4 7	23 43	1 12	19 12	1 34	3 3	0 39	3 46	1 19	8 14	1 48	23 36	0 11	8 56
F 11	22 6	18 41	4 38	23 34	1 19	18 52	1 35	2 48	0 38	3 47	1 19	8 15	1 48	23 36	0 11	8 56
S 12	21 58	17 25	4 56	23 22	1 25	18 32	1 35	2 34	0 37	3 49	1 20	8 16	1 49	23 36	0 11	8 57
S 13	21 50	15 23	5 0	23 8	1 31	18 12	1 36	2 19	0 36	3 50	1 20	8 17	1 49	23 36	0 11	8 57
M14	21 41	12 42	4 50	22 51	1 36	17 51	1 36	2 5	0 35	3 51	1 20	8 17	1 49	23 36	0 11	8 57
T 15	21 32	9 32	4 28	22 32	1 40	17 29	1 36	1 50	0 34	3 52	1 20	8 18	1 49	23 36	0 11	8 57
W16	21 22	6 1	3 55	22 10	1 43	17 7	1 36	1 36	0 33	3 54	1 21	8 19	1 50	23 36	0 11	8 57
T 17	21 12	2 15	3 11	21 46	1 46	16 45	1 36	1 21	0 32	3 55	1 21	8 20	1 50	23 36	0 12	8 57
F 18	21 2	1s38	2 19	21 20	1 48	16 22	1 36	1 7	0 31	3 56	1 21	8 21	1 50	23 36	0 12	8 57
S 19	20 52	5 29	1 20	20 53	1 49	15 59	1 36	0 52	0 30	3 56	1 22	8 23	1 50	23 36	0 12	8 57
S 20	20 41	9 10	0 16	20 23	1 49	15 35	1 36	0 37	0 29	3 57	1 22	8 24	1 50	23 36	0 12	8 57
M21	20 29	12 33	0n50	19 52	1 49	15 11	1 36	0 22	0 28	3 58	1 22	8 25	1 51	23 36	0 12	8 58
T 22	20 18	15 26	1 55	19 20	1 48	14 46	1 36	0 8	0 28	3 59	1 22	8 26	1 51	23 36	0 12	8 58
W23	20 6	17 36	2 57	18 46	1 46	14 22	1 35	0s 7	0 27	3 59	1 23	8 27	1 51	23 36	0 12	8 58
T 24	19 53	18 49	3 50	18 11	1 44	13 56	1 35	0 22	0 26	4 0	1 23	8 28	1 51	23 36	0 12	8 58
F 25	19 41	18 54	4 31	17 35	1 41	13 31	1 34	0 37	0 25	4 0	1 23	8 30	1 51	23 36	0 12	8 58
S 26	19 28	17 43	4 55	16 59	1 38	13 5	1 34	0 52	0 24	4 1	1 24	8 31	1 52	23 36	0 12	8 58
S 27	19 14	15 17	5 0	16 21	1 34	12 38	1 33	1 7	0 23	4 1	1 24	8 32	1 52	23 36	0 12	8 58
M28	19 1	11 48	4 43	15 43	1 29	12 12	1 32	1 22	0 22	4 1	1 24	8 34	1 52	23 36	0 12	8 58
T 29	18 47	7 32	4 7	15 4	1 25	11 45	1 32	1 37	0 21	4 1	1 24	8 35	1 52	23 36	0 12	8 58
W30	18 33	2 50	3 13	14 24	1 19	11 18	1 31	1 52	0 21	4 1	1 25	8 36	1 52	23 36	0 12	8 58
T 31	18n18	1n56	2n 8	13n44	1n14	10n50	1n30	2s 7	0n20	4n 1	1s25	8s38	1s53	23n35	0n12	8n58

Julian Day Number = 2524774.5, Delta T = 163.48 sec
 Ecliptic obliquity = 23°24'39", Nutation = 0°00'09", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°32'32", Lahiri = 26°39'32"

ASTRODIENST EPHEMERIS for the year 2200

geocentric

AUGUST 2200

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 37 56	8♂44'46	14♂13	28♂24	6♂49	6♂41	13♂31	12♂R21	2♂ 1	27♂R22	24♂10	24♂R55	25♂38	24♂53	18♂R27	F 1
S 2	20 41 52	9°42'07	28° 4	0♂ 2	8° 2	7°17	13°32	12♂18	2° 4	27♂R22	24°12	24°D55	25°35	25° 0	18♂26	S 2
S 3	20 45 49	10°39'30	11♂30	1°39	9°14	7°54	13°R32	12°14	2° 7	27°21	24°14	24°R55	25°32	25° 7	18°24	S 3
M 4	20 49 46	11°36'53	24°35	3°13	10°27	8°30	13°32	12°11	2°10	27°21	24°16	24♂54	25°29	25°14	18°23	M 4
T 5	20 53 42	12°34'18	7♂12	4°46	11°39	9° 7	13°31	12° 7	2°13	27°21	24°17	24°52	25°25	25°20	18°21	T 5
W 6	20 57 39	13°31'43	19°51	6°17	12°51	9°43	13°31	12° 4	2°16	27°21	24°19	24°47	25°22	25°27	18°20	W 6
T 7	21 1 35	14°29'10	2♂ 9	7°47	14° 4	10°20	13°30	12° 0	2°19	27°21	24°21	24°40	25°19	25°34	18°18	T 7
F 8	21 5 32	15°26'38	14°18	9°14	15°16	10°57	13°29	11°56	2°21	27°21	24°23	24°30	25°16	25°40	18°17	F 8
S 9	21 9 28	16°24'07	26°20	10°40	16°29	11°33	13°28	11°52	2°24	27°20	24°25	24°18	25°13	25°47	18°16	S 9
S 10	21 13 25	17°21'37	8♂17	12° 4	17°41	12°10	13°27	11°48	2°27	27°20	24°27	24° 6	25°10	25°54	18°15	S 10
M 11	21 17 21	18°19'08	20°10	13°27	18°53	12°47	13°25	11°45	2°30	27°20	24°29	23°53	25° 6	26° 0	18°14	M 11
T 12	21 21 18	19°16'40	2♂ 0	14°47	20° 5	13°24	13°24	11°41	2°33	27°19	24°30	23°43	25° 3	26° 7	18°13	T 12
W 13	21 25 15	20°14'13	13°50	16° 5	21°18	14° 2	13°22	11°37	2°35	27°19	24°32	23°34	25° 0	26°14	18°12	W 13
T 14	21 29 11	21°11'47	25°41	17°22	22°30	14°39	13°20	11°32	2°38	27°19	24°34	23°28	24°57	26°21	18°12	T 14
F 15	21 33 8	22° 9'22	7♂37	18°36	23°42	15°16	13°17	11°28	2°41	27°18	24°36	23°24	24°54	26°27	18°11	F 15
S 16	21 37 4	23° 6'58	19°40	19°49	24°54	15°54	13°15	11°24	2°43	27°18	24°38	23°D23	24°50	26°34	18°11	S 16
S 17	21 41 1	24° 4'35	1♂54	20°59	26° 6	16°31	13°12	11°20	2°46	27°17	24°40	23°23	24°47	26°41	18°10	S 17
M 18	21 44 57	25° 2'13	14°25	22° 7	27°18	17° 9	13° 9	11°16	2°48	27°16	24°42	23°24	24°44	26°47	18°10	M 18
T 19	21 48 54	25°59'52	27°16	23°12	28°30	17°47	13° 6	11°11	2°51	27°16	24°44	23°R24	24°41	26°54	18°10	T 19
W 20	21 52 50	26°57'32	10♂31	24°16	29°42	18°24	13° 3	11° 7	2°53	27°15	24°46	23°23	24°38	27° 1	18°10	W 20
T 21	21 56 47	27°55'13	24°15	25°16	0♂54	19° 2	13° 0	11° 3	2°55	27°15	24°47	23°21	24°35	27° 7	18°D10	T 21
F 22	22 0 44	28°52'55	8♂28	26°14	2° 6	19°40	12°56	10°58	2°58	27°14	24°49	23°16	24°31	27°14	18°10	F 22
S 23	22 4 40	29°50'38	23° 7	27° 9	3°18	20°18	12°52	10°54	3° 0	27°13	24°51	23° 9	24°28	27°21	18°10	S 23
S 24	22 8 37	0♂48'22	8♂ 9	28° 2	4°29	20°57	12°48	10°50	3° 2	27°13	24°53	23° 2	24°25	27°28	18°10	S 24
M 25	22 12 33	1°46'07	23°24	28°51	5°41	21°35	12°44	10°45	3° 5	27°12	24°55	22°54	24°22	27°34	18°11	M 25
T 26	22 16 30	2°43'53	8♂42	29°36	6°53	22°13	12°40	10°41	3° 7	27°11	24°57	22°47	24°19	27°41	18°11	T 26
W 27	22 20 26	3°41'41	23°51	0♂19	8° 4	22°51	12°35	10°36	3° 9	27°10	24°59	22°42	24°16	27°48	18°11	W 27
T 28	22 24 23	4°39'31	8♂43	0°57	9°16	23°30	12°31	10°32	3°11	27° 9	25° 1	22°40	24°12	27°54	18°12	T 28
F 29	22 28 19	5°37'22	23°12	1°32	10°28	24° 8	12°26	10°27	3°13	27° 8	25° 2	22°D39	24° 9	28° 1	18°13	F 29
S 30	22 32 16	6°35'15	7♂13	2° 2	11°39	24°47	12°21	10°23	3°15	27° 8	25° 4	22°39	24° 6	28° 8	18°14	S 30
S 31	22 36 13	7♂33'10	20♂46	2♂28	12♂51	25♂26	12♂15	10♂18	3♂17	27♂ 7	25♂ 6	22♂41	24♂ 3	28♂14	18♂15	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	18n 3	6n28	0n56	13n 4	1n 7	10n22	1n29	2s22	0n19	4n 1	1s25	8s39	1s53	23n35	0n12	8n58
S 2	17 48	10 31	0s17	12 24	1 1	9 54	1 28	2 37	0 18	4 1	1 26	8 41	1 53	23 35	0 12	8 57
S 3	17 33	13 53	1 27	11 43	0 54	9 26	1 26	2 52	0 17	4 1	1 26	8 42	1 53	23 35	0 12	8 57
M 4	17 17	16 28	2 30	11 2	0 47	8 57	1 25	3 7	0 16	4 0	1 26	8 44	1 53	23 35	0 12	8 57
T 5	17 1	18 8	3 25	10 21	0 39	8 29	1 24	3 22	0 15	4 0	1 26	8 45	1 53	23 35	0 12	8 57
W 6	16 45	18 54	4 8	9 41	0 31	8 0	1 22	3 37	0 15	4 0	1 27	8 47	1 54	23 35	0 12	8 57
T 7	16 28	18 44	4 39	9 0	0 23	7 30	1 21	3 52	0 14	3 59	1 27	8 48	1 54	23 35	0 12	8 57
F 8	16 11	17 43	4 57	8 19	0 16	7 1	1 19	4 8	0 13	3 58	1 27	8 50	1 54	23 35	0 12	8 57
S 9	15 54	15 55	5 2	7 39	0 6	6 32	1 18	4 23	0 12	3 58	1 28	8 52	1 54	23 35	0 12	8 57
S 10	15 37	13 27	4 53	6 59	0s 3	6 2	1 16	4 38	0 11	3 57	1 28	8 53	1 54	23 35	0 12	8 57
M 11	15 19	10 27	4 31	6 19	0 12	5 32	1 14	4 53	0 11	3 56	1 28	8 55	1 54	23 35	0 12	8 56
T 12	15 1	7 2	3 58	5 39	0 22	5 2	1 12	5 8	0 10	3 55	1 28	8 56	1 55	23 35	0 12	8 56
W 13	14 43	3 21	3 15	5 0	0 31	4 32	1 10	5 23	0 9	3 54	1 29	8 58	1 55	23 35	0 12	8 56
T 14	14 25	0s28	2 22	4 21	0 41	4 1	1 8	5 39	0 8	3 53	1 29	9 0	1 55	23 35	0 12	8 56
F 15	14 7	4 18	1 23	3 43	0 51	3 31	1 6	5 54	0 7	3 52	1 29	9 2	1 55	23 35	0 12	8 56
S 16	13 48	7 59	0 20	3 6	1 1	3 0	1 4	6 9	0 7	3 51	1 30	9 3	1 55	23 35	0 12	8 55
S 17	13 29	11 25	0n46	2 29	1 11	2 30	1 2	6 24	0 6	3 50	1 30	9 5	1 55	23 35	0 12	8 55
M 18	13 10	14 23	1 50	1 53	1 21	1 59	1 0	6 39	0 5	3 48	1 30	9 7	1 55	23 35	0 12	8 55
T 19	12 50	16 45	2 51	1 17	1 32	1 28	0 57	6 54	0 4	3 47	1 30	9 8	1 55	23 35	0 12	8 55
W 20	12 31	18 17	3 45	0 43	1 42	0 58	0 55	7 9	0 3	3 45	1 31	9 10	1 56	23 35	0 12	8 54
T 21	12 11	18 49	4 28	0 9	1 52	0 27	0 53	7 24	0 3	3 44	1 31	9 12	1 56	23 35	0 12	8 54
F 22	11 51	18 13	4 56	0s23	2 3	0s 4	0 50	7 39	0 2	3 42	1 31	9 14	1 56	23 35	0 12	8 54
S 23	11 31	16 24	5 6	0 54	2 13	0 35	0 47	7 54	0 1	3 40	1 31	9 15	1 56	23 35	0 12	8 53
S 24	11 10	13 26	4 56	1 25	2 23	1 6	0 45	8 9	0 0	3 39	1 32	9 17	1 56	23 35	0 12	8 53
M 25	10 50	9 32	4 25	1 53	2 34	1 37	0 42	8 24	0s 0	3 37	1 32	9 19	1 56	23 35	0 12	8 53
T 26	10 29	4 59	3 34	2 21	2 44	2 8	0 39	8 39	0 1	3 35	1 32	9 21	1 56	23 35	0 12	8 52
W 27	10 8	0 10	2 29	2 47	2 54	2 38	0 36	8 54	0 2	3 33	1 32	9 23	1 56	23 35	0 12	8 52
T 28	9 47	4n36	1 14	3 11	3 4	3 9	0 34	9 9	0 3	3 31	1 33	9 24	1 56	23 35	0 12	8 52
F 29	9 26	8 57	0s 3	3 34	3 13	3 40	0 31	9 24	0 3	3 29	1 33	9 26	1 56	23 34	0 12	8 51
S 30	9 5	12 40	1 18	3 54	3 22	4 11	0 28	9 39	0 4	3 27	1 33	9 28	1 57	23 34	0 12	8 51
S 31	8n44	15n34	2s26	4s13	3s31	4s41	0n25	9s54	0s 5	3n24	1s33	9s30	1s57	23n34	0n12	8n51

Julian Day Number = 2524805.5, Delta T = 163.57 sec
 Ecliptic obliquity = 23°24'39, Nutation = 0°00'09, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°32'36, Lahiri = 26°39'37

ASTRODIENST EPHEMERIS for the year 2200
geocentric

SEPTEMBER 2200

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 40 9	8♍31'07	3♊54	2♎50	14♌2	26♌4	12°R10	10°R13	3♎19	27°R 6	25♏8	22°R42	24♌0	28♏21	18♌16	M 1
T 2	22 44 6	9°29'05	16°40	3° 6	15°14	26°43	12°Y 5	10°H 9	3°21	27°Y 5	25°10	22♌41	23°56	28°28	18°17	T 2
W 3	22 48 2	10°27'06	29° 8	3°17	16°25	27°22	11°59	10° 4	3°23	27° 4	25°12	22°40	23°53	28°35	18°18	W 3
T 4	22 51 59	11°25'08	11♎21	3°R23	17°36	28° 1	11°53	10° 0	3°25	27° 3	25°13	22°36	23°50	28°41	18°19	T 4
F 5	22 55 55	12°23'12	23°24	3°23	18°47	28°40	11°47	9°55	3°27	27° 2	25°15	22°31	23°47	28°48	18°21	F 5
S 6	22 59 52	13°21'18	5♏20	3°16	19°59	29°20	11°41	9°51	3°28	27° 0	25°17	22°24	23°44	28°55	18°22	S 6
S 7	23 3 48	14°19'26	17°12	3° 4	21°10	29°59	11°35	9°46	3°30	26°59	25°19	22°17	23°41	29° 1	18°24	S 7
M 8	23 7 45	15°17'35	29° 3	2°46	22°21	0♍38	11°29	9°42	3°32	26°58	25°21	22°10	23°37	29° 8	18°25	M 8
T 9	23 11 41	16°15'46	10♍54	2°21	23°32	1°18	11°22	9°37	3°33	26°57	25°22	22° 4	23°34	29°15	18°27	T 9
W10	23 15 38	17°13'59	22°47	1°49	24°43	1°57	11°16	9°33	3°35	26°56	25°24	21°59	23°31	29°21	18°29	W10
T 11	23 19 35	18°12'14	4♌44	1°12	25°54	2°37	11° 9	9°28	3°36	26°55	25°26	21°56	23°28	29°28	18°31	T 11
F 12	23 23 31	19°10'30	16°47	0°29	27° 5	3°16	11° 2	9°24	3°38	26°53	25°28	21°D55	23°25	29°35	18°33	F 12
S 13	23 27 28	20° 8'48	28°59	29♍40	28°16	3°56	10°55	9°19	3°39	26°52	25°30	21°55	23°22	29°42	18°35	S 13
S 14	23 31 24	21° 7'08	11♍21	28°47	29°27	4°36	10°48	9°15	3°41	26°51	25°31	21°56	23°18	29°48	18°37	S 14
M15	23 35 21	22° 5'29	23°58	27°50	0♍38	5°16	10°41	9°10	3°42	26°50	25°33	21°58	23°15	29°55	18°39	M15
T 16	23 39 17	23° 3'52	6♌52	26°50	1°48	5°56	10°33	9° 6	3°43	26°48	25°35	21°59	23°12	0♍2	18°42	T 16
W17	23 43 14	24° 2'16	20° 6	25°48	2°59	6°36	10°26	9° 2	3°44	26°47	25°36	22°R 0	23° 9	0° 8	18°44	W17
T 18	23 47 10	25° 0'42	3♎43	24°47	4°10	7°16	10°19	8°57	3°46	26°46	25°38	22° 0	23° 6	0°15	18°47	T 18
F 19	23 51 7	25°59'10	17°45	23°46	5°20	7°56	10°11	8°53	3°47	26°44	25°40	21°58	23° 2	0°22	18°50	F 19
S 20	23 55 4	26°57'39	2♎9	22°48	6°31	8°36	10° 4	8°49	3°48	26°43	25°41	21°56	22°59	0°28	18°52	S 20
S 21	23 59 0	27°56'09	16°54	21°54	7°41	9°17	9°56	8°45	3°49	26°41	25°43	21°53	22°56	0°35	18°55	S 21
M22	0 2 57	28°54'42	1♎54	21° 6	8°51	9°57	9°48	8°41	3°50	26°40	25°45	21°50	22°53	0°42	18°58	M22
T 23	0 6 53	29°53'16	17° 0	20°24	10° 1	10°38	9°40	8°37	3°51	26°39	25°46	21°47	22°50	0°48	19° 1	T 23
W24	0 10 50	0♌51'51	2°Y 3	19°51	11°12	11°18	9°33	8°32	3°51	26°37	25°48	21°45	22°47	0°55	19° 4	W24
T 25	0 14 46	1°50'29	16°53	19°26	12°22	11°59	9°25	8°28	3°52	26°36	25°50	21°D44	22°43	1° 2	19° 7	T 25
F 26	0 18 43	2°49'09	1♎25	19°10	13°32	12°40	9°17	8°25	3°53	26°34	25°51	21°44	22°40	1° 9	19°10	F 26
S 27	0 22 39	3°47'51	15°33	19°D 4	14°42	13°20	9° 9	8°21	3°54	26°33	25°53	21°45	22°37	1°15	19°14	S 27
S 28	0 26 36	4°46'35	29°14	19° 8	15°52	14° 1	9° 1	8°17	3°54	26°31	25°54	21°46	22°34	1°22	19°17	S 28
M29	0 30 33	5°45'22	12♊19	19°22	17° 1	14°42	8°53	8°13	3°55	26°30	25°56	21°48	22°31	1°29	19°21	M29
T 30	0 34 29	6♌44'10	25♊19	19♍46	18♌11	15♍23	8°Y45	8°H 9	3♎55	26°Y28	25♏57	21♌49	22♌27	1♍35	19♌24	T 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
M 1	8n22	17n33	3s25	4s29	3s40	5s12	0n21	10s 9	0s 6	3n22	1s33	9s32	1s57	23n34	0n12	8n50	1s42	21n33	8n58	8s49	9s18	8n 2	17s16	5n39			
T 2	8 0	18 35	4 11	4 43	3 48	5 42	0 18	10 23	0 6	3 20	1 34	9 33	1 57	23 34	0 12	8 50	1 42	21 33	8 58	8 49	9 17	8 1	17 16	5 39			
W 3	7 38	18 40	4 44	4 54	3 55	6 13	0 15	10 38	0 7	3 18	1 34	9 35	1 57	23 34	0 12	8 49	1 42	21 32	8 58	8 48	9 16	7 59	17 17	5 38			
T 4	7 16	17 53	5 4	5 2	4 2	6 43	0 12	10 53	0 8	3 15	1 34	9 37	1 57	23 34	0 12	8 49	1 42	21 32	8 58	8 47	9 14	7 57	17 17	5 38			
F 5	6 54	16 18	5 10	5 8	4 7	7 13	0 9	11 7	0 8	3 13	1 34	9 39	1 57	23 34	0 12	8 49	1 42	21 31	8 58	8 45	9 13	7 55	17 18	5 37			
S 6	6 32	14 2	5 2	5 10	4 12	7 43	0 5	11 22	0 9	3 10	1 34	9 40	1 57	23 34	0 12	8 48	1 42	21 31	8 59	8 43	9 12	7 53	17 18	5 37			
S 7	6 10	11 11	4 41	5 8	4 16	8 13	0 2	11 36	0 10	3 7	1 35	9 42	1 57	23 34	0 12	8 48	1 42	21 30	8 59	8 40	9 11	7 52	17 19	5 37			
M 8	5 47	7 54	4 9	5 3	4 19	8 43	0s 1	11 51	0 11	3 5	1 35	9 44	1 57	23 34	0 12	8 47	1 42	21 30	8 59	8 37	9 10	7 50	17 20	5 36			
T 9	5 25	4 18	3 25	4 55	4 20	9 12	0 5	12 5	0 11	3 2	1 35	9 46	1 57	23 34	0 12	8 47	1 42	21 29	8 59	8 35	9 9	7 48	17 20	5 36			
W10	5 2	0 32	2 32	4 42	4 20	9 42	0 8	12 19	0 12	2 59	1 35	9 47	1 57	23 34	0 12	8 46	1 42	21 29	8 59	8 33	9 7	7 46	17 21	5 35			
T 11	4 40	3s18	1 33	4 26	4 19	10 11	0 12	12 34	0 13	2 57	1 35	9 49	1 57	23 34	0 12	8 46	1 43	21 28	8 59	8 32	9 6	7 44	17 21	5 35			
F 12	4 17	7 1	0 28	4 6	4 15	10 40	0 15	12 48	0 13	2 54	1 35	9 51	1 57	23 34	0 12	8 45	1 43	21 28	9 0	8 32	9 5	7 42	17 22	5 35			
S 13	3 54	10 30	0n39	3 42	4 10	11 8	0 19	13 2	0 14	2 51	1 36	9 53	1 57	23 34	0 12	8 45	1 43	21 27	9 0	8 32	9 4	7 41	17 22	5 34			
S 14	3 31	13 34	1 45	3 14	4 3	11 37	0 23	13 16	0 15	2 48	1 36	9 54	1 57	23 34	0 12	8 45	1 43	21 27	9 0	8 32	9 3	7 39	17 23	5 34			
M15	3 8	16 3	2 47	2 43	3 54	12 5	0 26	13 30	0 15	2 45	1 36	9 56	1 57	23 34	0 13	8 44	1 43	21 27	9 0	8 33	9 1	7 37	17 23	5 33			
T 16	2 45	17 47	3 42	2 9	3 43	12 33	0 30	13 44	0 16	2 42	1 36	9 58	1 57	23 34	0 13	8 43	1 43	21 26	9 0	8 33	9 0	7 35	17 24	5 33			
W17	2 22	18 36	4 27	1 33	3 30	13 1	0 34	13 58	0 17	2 39	1 36	9 59	1 57	23 34	0 13	8 43	1 43	21 26	9 0	8 34	8 59	7 33	17 25	5 33			
T 18	1 59	18 23	4 59	0 55	3 16	13 28	0 37	14 12	0 17	2 36	1 36	10 1	1 57	23 34	0 13	8 42	1 43	21 25	9 1	8 33	8 58	7 32	17 25	5 32			
F 19	1 36	17 3	5 13	0 17	3 0	13 56	0 41	14 25	0 18	2 33	1 36	10 2	1 57	23 34	0 13	8 42	1 43	21 25	9 1	8 33	8 57	7 30	17 26	5 32			
S 20	1 12	14 38	5 9	0n22	2 42	14 23	0 45	14 39	0 19	2 30	1 36	10 4	1 57	23 34	0 13	8 41	1 43	21 25	9 1	8 32	8 56	7 28	17 26	5 31			
S 21	0 49	11 13	4 45	1 0	2 24	14 49	0 48	14 52	0 19	2 27	1 36	10 6	1 57	23 34	0 13	8 41	1 43	21 24	9 1	8 31	8 54	7 26	17 27	5 31			
M22	0 26	7 2	4 1	1 37	2 4	15 15	0 52	15 6	0 20	2 24	1 37	10 7	1 57	23 34	0 13	8 40	1 43	21 24	9 1	8 30	8 53	7 24	17 28	5 31			
T 23	0 3	2 22	3 0	2 12	1 44	15 41	0 56	15 19	0 21	2 21	1 37	10 9	1 57	23 34	0 13	8 40	1 43	21 23	9 2	8 29	8 52	7 22	17 28	5 30			
W24	0s21	2n26	1 47	2 43	1 24	16 7	1 0	15 32	0 21	2 18	1 37	10 10	1 57	23 34	0 13	8 39	1 43	21 23	9 2	8 28	8 51	7 21	17 29	5 30			
T 25	0 44	7 2	0 27	3 12	1 4	16 32	1 3	15 46	0 22	2 15	1 37	10 12	1 57	23 34	0 13	8 39	1 43	21 23	9 2	8 28	8 50	7 19	17 29	5 30			
F 26	1 7	11 7	0s53	3 36	0 45	16 57	1 7	15 59	0 23	2 11	1 37	10 13	1 57	23 34	0 13	8 38	1 43	21 22	9 2	8 28	8 49	7 17	17 30	5 29			
S 27	1 30	14 26	2 8	3 56	0 26	17 21	1 11	16 12	0 23	2 8	1 37	10 15	1 57	23 34	0 13	8 38	1 43	21 22	9 3	8 28	8 47	7 15	17 31	5 29			
S 28	1 54	16 49	3 13	4 11	0 8	17 46	1 15	16 24	0 24	2 5	1 37	10 16	1 57	23 34	0 13	8 37	1 43	21 22	9 3	8 29	8 46	7 13	17 31	5 28			
M29	2 17	18 13	4 5	4 21	0n 9	18 9	1 18	16 37	0 24	2 2	1 37	10 17	1 57	23 34	0 13	8 36	1 43	21 21	9 3	8 29	8 45	7 11	17 32	5 28			
T 30	2s40	18n36	4s44	4n26	0n25	18s32	1s22	16s50	0s25	1n59	1s37	10s19	1s57	23n34	0n13	8n36	1s43	21n21	9n 3	8s29	8s44	7n10	17s33	5n28			

ASTRODIENST EPHEMERIS for the year 2200

geocentric

OCTOBER 2200

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 38 26	7♂43'01	7♂50	20♂19	19♂21	16♂4	8°R37	8°R 6	3♂56	26°R27	25♂59	21°R49	22♂24	1♂42	19♂28	W 1
T 2	0 42 22	8°41'55	20° 4	21° 1	20°30	16°45	8°Y29	8°Y 2	3°56	26°Y25	26° 0	21°49	22°21	1°49	19°32	T 2
F 3	0 46 19	9°40'50	2♂0	21°51	21°40	17°27	8°21	7°59	3°57	26°23	26° 2	21°48	22°18	1°55	19°35	F 3
S 4	0 50 15	10°39'48	14° 0	22°50	22°49	18° 8	8°13	7°55	3°57	26°22	26° 3	21°46	22°15	2° 2	19°39	S 4
S 5	0 54 12	11°38'47	25°50	23°55	23°59	18°49	8° 4	7°52	3°57	26°20	26° 5	21°45	22°12	2° 9	19°43	S 5
M 6	0 58 8	12°37'50	7♂41	25° 7	25° 8	19°31	7°56	7°48	3°58	26°19	26° 6	21°44	22° 8	2°15	19°47	M 6
T 7	1 2 5	13°36'54	19°34	26°25	26°17	20°12	7°48	7°45	3°58	26°17	26° 7	21°42	22° 5	2°22	19°51	T 7
W 8	1 6 1	14°36'00	1♂33	27°48	27°26	20°54	7°41	7°42	3°58	26°15	26° 9	21°42	22° 2	2°29	19°55	W 8
T 9	1 9 58	15°35'08	13°40	29°15	28°35	21°36	7°33	7°39	3°58	26°14	26°10	21°41	21°59	2°36	20° 0	T 9
F 10	1 13 55	16°34'19	25°56	0♂45	29°44	22°18	7°25	7°36	3°R58	26°12	26°11	21°D41	21°56	2°42	20° 4	F 10
S 11	1 17 51	17°33'31	8♂23	2°19	0♂53	22°59	7°17	7°33	3°58	26°10	26°13	21°41	21°53	2°49	20° 8	S 11
S 12	1 21 48	18°32'46	21° 2	3°55	2° 2	23°41	7° 9	7°30	3°58	26° 9	26°14	21°42	21°49	2°56	20°13	S 12
M13	1 25 44	19°32'02	3♂54	5°34	3°10	24°23	7° 1	7°27	3°58	26° 7	26°15	21°42	21°46	3° 2	20°17	M13
T 14	1 29 41	20°31'20	17° 1	7°14	4°19	25° 5	6°54	7°24	3°58	26° 5	26°17	21°42	21°43	3° 9	20°22	T 14
W15	1 33 37	21°30'40	0♂23	8°55	5°27	25°47	6°46	7°22	3°57	26° 4	26°18	21°R42	21°40	3°16	20°27	W15
T 16	1 37 34	22°30'02	14° 1	10°38	6°36	26°30	6°39	7°19	3°57	26° 2	26°19	21°42	21°37	3°22	20°31	T 16
F 17	1 41 30	23°29'26	27°56	12°21	7°44	27°12	6°31	7°17	3°57	26° 0	26°20	21°D42	21°33	3°29	20°36	F 17
S 18	1 45 27	24°28'51	12♂7	14° 4	8°52	27°54	6°24	7°14	3°56	25°59	26°21	21°42	21°30	3°36	20°41	S 18
S 19	1 49 24	25°28'18	26°31	15°48	10° 0	28°37	6°17	7°12	3°56	25°57	26°22	21°43	21°27	3°42	20°46	S 19
M20	1 53 20	26°27'46	11♂7	17°32	11° 7	29°19	6°10	7°10	3°55	25°55	26°23	21°43	21°24	3°49	20°51	M20
T 21	1 57 17	27°27'17	25°48	19°16	12°15	0♂2	6° 3	7° 8	3°55	25°54	26°25	21°43	21°21	3°56	20°56	T 21
W22	2 1 13	28°26'49	10°Y29	20°59	13°23	0°44	5°56	7° 6	3°54	25°52	26°26	21°44	21°18	4° 2	21° 1	W22
T 23	2 5 10	29°26'23	25° 3	22°43	14°30	1°27	5°49	7° 4	3°54	25°50	26°27	21°R44	21°14	4° 9	21° 6	T 23
F 24	2 9 6	0♂25'59	9♂25	24°26	15°37	2°10	5°43	7° 2	3°53	25°49	26°28	21°44	21°11	4°16	21°12	F 24
S 25	2 13 3	1°25'37	23°28	26° 8	16°44	2°52	5°36	7° 1	3°52	25°47	26°29	21°43	21° 8	4°23	21°17	S 25
S 26	2 16 59	2°25'17	7♂9	27°50	17°51	3°35	5°30	6°59	3°51	25°45	26°30	21°41	21° 5	4°29	21°22	S 26
M27	2 20 56	3°25'00	20°28	29°32	18°58	4°18	5°24	6°57	3°50	25°44	26°31	21°40	21° 2	4°36	21°28	M27
T 28	2 24 53	4°24'44	3♂23	1♂13	20° 4	5° 1	5°18	6°56	3°49	25°42	26°31	21°38	20°58	4°43	21°33	T 28
W29	2 28 49	5°24'31	15°57	2°54	21°11	5°44	5°12	6°55	3°49	25°40	26°32	21°37	20°55	4°49	21°38	W29
T 30	2 32 46	6°24'20	28°14	4°34	22°17	6°27	5° 6	6°53	3°48	25°39	26°33	21°36	20°52	4°56	21°44	T 30
F 31	2 36 42	7♂24'11	10♂17	6♂14	23♂23	7♂11	5°Y 0	6♂52	3♂46	25°Y37	26♂34	21°D36	20♂49	5♂3	21♂50	F 31

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
W 1	3s 4	18n 4	5s 7	4n27	0n40	18s55	1s26	17s 2	0s26	1n55	1s37	10s20	1s57	23n34	0n13	8n35	1s43	21n21	9n 3	8s29	8s43	7n 8	17s33	5n27					
T 2	3 27	16 42	5 16	4 23	0 53	19 18	1 30	17 15	0 26	1 52	1 37	10 21	1 57	23 34	0 13	8 35	1 43	21 20	9 4	8 29	8 41	7 6	17 34	5 27					
F 3	3 50	14 36	5 12	4 14	1 5	19 40	1 33	17 27	0 27	1 49	1 37	10 23	1 57	23 34	0 13	8 34	1 43	21 20	9 4	8 29	8 40	7 4	17 34	5 27					
S 4	4 13	11 55	4 53	4 0	1 16	20 1	1 37	17 39	0 27	1 46	1 37	10 24	1 57	23 34	0 13	8 33	1 43	21 20	9 4	8 29	8 39	7 2	17 35	5 26					
S 5	4 36	8 46	4 23	3 43	1 25	20 22	1 41	17 51	0 28	1 43	1 37	10 25	1 57	23 34	0 13	8 33	1 43	21 20	9 4	8 28	8 38	7 0	17 36	5 26					
M 6	4 59	5 16	3 41	3 22	1 34	20 43	1 44	18 3	0 29	1 40	1 37	10 26	1 57	23 34	0 13	8 32	1 43	21 19	9 5	8 27	8 37	6 59	17 36	5 26					
T 7	5 22	1 32	2 49	2 57	1 40	21 3	1 48	18 15	0 29	1 37	1 37	10 27	1 57	23 34	0 13	8 32	1 43	21 19	9 5	8 27	8 36	6 57	17 37	5 25					
W 8	5 45	2s17	1 49	2 30	1 46	21 22	1 52	18 26	0 30	1 34	1 37	10 29	1 57	23 34	0 13	8 31	1 43	21 19	9 5	8 27	8 34	6 55	17 38	5 25					
T 9	6 8	6 4	0 44	1 59	1 50	21 42	1 55	18 38	0 30	1 30	1 37	10 30	1 57	23 34	0 13	8 30	1 43	21 19	9 6	8 27	8 33	6 53	17 38	5 25					
F 10	6 30	9 38	0n24	1 26	1 53	22 0	1 59	18 49	0 31	1 27	1 37	10 31	1 56	23 34	0 13	8 30	1 43	21 18	9 6	8 27	8 32	6 51	17 39	5 24					
S 11	6 53	12 50	1 31	0 51	1 56	22 18	2 2	19 0	0 32	1 24	1 37	10 32	1 56	23 34	0 13	8 29	1 43	21 18	9 6	8 27	8 31	6 49	17 39	5 24					
S 12	7 16	15 29	2 36	0 14	1 57	22 36	2 6	19 12	0 32	1 21	1 37	10 33	1 56	23 34	0 13	8 29	1 43	21 18	9 6	8 27	8 30	6 48	17 40	5 24					
M13	7 38	17 24	3 34	0s25	1 57	22 52	2 9	19 22	0 33	1 18	1 37	10 34	1 56	23 34	0 13	8 28	1 43	21 18	9 7	8 27	8 28	6 46	17 41	5 24					
T 14	8 0	18 26	4 21	1 5	1 57	23 9	2 12	19 33	0 33	1 15	1 36	10 35	1 56	23 34	0 13	8 27	1 43	21 18	9 7	8 27	8 27	6 44	17 41	5 23					
W15	8 23	18 29	4 56	1 46	1 55	23 25	2 16	19 44	0 34	1 13	1 36	10 35	1 56	23 34	0 13	8 27	1 43	21 18	9 7	8 27	8 26	6 42	17 42	5 23					
T 16	8 45	17 27	5 15	2 28	1 54	23 40	2 19	19 54	0 34	1 10	1 36	10 36	1 56	23 34	0 13	8 26	1 43	21 17	9 7	8 27	8 25	6 40	17 43	5 23					
F 17	9 7	15 23	5 16	3 10	1 51	23 54	2 22	20 5	0 35	1 7	1 36	10 37	1 56	23 34	0 13	8 26	1 43	21 17	9 8	8 27	8 24	6 38	17 43	5 22					
S 18	9 29	12 22	4 58	3 53	1 48	24 9	2 25	20 15	0 36	1 4	1 36	10 38	1 56	23 34	0 13	8 25	1 43	21 17	9 8	8 27	8 22	6 37	17 44	5 22					
S 19	9 50	8 34	4 21	4 36	1 44	24 22	2 28	20 25	0 36	1 1	1 36	10 39	1 56	23 34	0 13	8 24	1 43	21 17	9 8	8 27	8 21	6 35	17 44	5 22					
M20	10 12	4 12	3 27	5 20	1 40	24 35	2 31	20 35	0 37	0 59	1 36	10 39	1 56	23 34	0 13	8 24	1 43	21 17	9 9	8 27	8 20	6 33	17 45	5 22					
T 21	10 33	0n28	2 19	6 3	1 36	24 47	2 34	20 44	0 37	0 56	1 36	10 40	1 55	23 34	0 13	8 23	1 43	21 17	9 9	8 27	8 19	6 31	17 46	5 21					
W22	10 55	5 6	1 2	6 46	1 31	24 59	2 37	20 54	0 38	0 54	1 36	10 41	1 55	23 34	0 13	8 23	1 43	21 17	9 9	8 28	8 18	6 29	17 46	5 21					
T 23	11 16	9 24	0s18	7 29	1 26	25 10	2 40	21 3	0 38	0 51	1 35	10 41	1 55	23 35	0 13	8 22	1 43	21 17	9 10	8 28	8 17	6 27	17 47	5 21					
F 24	11 37	13 5	1 37	8 12	1 21	25 20	2 43	21 12	0 39	0 49	1 35	10 42	1 55	23 35	0 13	8 21	1 43	21 17	9 10	8 27	8 15	6 26	17 47	5 21					
S 25	11 57	15 55	2 47	8 55	1 15	25 30	2 45	21 21	0 39	0 46	1 35	10 42	1 55	23 35	0 13	8 21	1 43	21 17	9 10	8 27	8 14	6 24	17 48	5 20					
S 26	12 18	17 46	3 46	9 37	1 9	25 39	2 48	21 30	0 40	0 44	1 35	10 43	1 55	23 35	0 13	8 20	1 43	21 16	9 10	8 27	8 13	6 22	17 48	5 20					
M27	12 38	18 34	4 31	10 19	1 3	25 47	2 51	21 38	0 40	0 41	1 35	10 43	1 55	23 35	0 13	8 20	1 43	21 16	9 11	8 26	8 12	6 20	17 49	5 20					
T 28	12 59	18 21	5 1	11 0	0 57	25 55	2 53	21 47	0 41	0 39	1 35	10 44	1 55	23 35	0 13	8 19	1 43	21 16	9 11	8 26	8 11	6 18	17 50	5 20					
W29	13 19	17 15	5 15	11 40	0 51	26 2	2 55	21 55	0 41	0 37	1 34	10 44	1 55	23 35	0 13	8 18	1 43	21 16	9 11	8 25	8 9	6 16	17 50	5 19					
T 30	13 38	15 21	5 14	12 20	0 44	26 8	2 58	22 3	0 42	0 35	1 34	10 45	1 54	23 35	0 13	8 18	1 43	21 16	9 12	8 25	8 8	6 15	17 51	5 19					
F 31	13s58	12n50	5s 0	12s59	0n38	26s14	3s 0	22s11	0s42	0n33	1s34	10s45	1s54	23n35	0n13	8n17	1s43	21n16	9n12	8s25	8s 7	6n13	17s51	5n19					

ASTRODIENST EPHEMERIS for the year 2200
geocentric

NOVEMBER 2200

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 40 39	8♌24°05	22♏11	7♍53	24♌29	7♌54	4°R55	6°R51	3°R45	25°R35	26♏35	21♏37	20♏46	5♎9	21♌55	S 1
S 2	2 44 35	9°24'00	4♎1	9°32	25°34	8°37	4°Y49	6♌50	3♌44	25°Y34	26°36	21°38	20°43	5°16	22° 1	S 2
M 3	2 48 32	10°23'58	15°52	11°10	26°40	9°21	4°44	6°50	3°43	25°32	26°36	21°39	20°39	5°23	22° 7	M 3
T 4	2 52 28	11°23'58	27°48	12°48	27°45	10° 4	4°39	6°49	3°42	25°31	26°37	21°41	20°36	5°29	22°13	T 4
W 5	2 56 25	12°23'59	9♌53	14°25	28°50	10°48	4°34	6°48	3°40	25°29	26°38	21°42	20°33	5°36	22°19	W 5
T 6	3 0 22	13°24'03	22°10	16° 2	29°55	11°31	4°30	6°48	3°39	25°27	26°38	21°R43	20°30	5°43	22°24	T 6
F 7	3 4 18	14°24'09	4♌41	17°38	1♌0	12°15	4°25	6°47	3°38	25°26	26°39	21°42	20°27	5°49	22°30	F 7
S 8	3 8 15	15°24'17	17°27	19°14	2° 4	12°59	4°21	6°47	3°36	25°24	26°40	21°40	20°24	5°56	22°36	S 8
S 9	3 12 11	16°24'26	0♌28	20°50	3° 8	13°43	4°17	6°47	3°35	25°23	26°40	21°37	20°20	6° 3	22°42	S 9
M10	3 16 8	17°24'38	13°44	22°25	4°12	14°27	4°13	6°D47	3°33	25°21	26°41	21°33	20°17	6° 9	22°49	M10
T 11	3 20 4	18°24'51	27°14	24° 0	5°16	15°11	4° 9	6°47	3°32	25°20	26°41	21°29	20°14	6°16	22°55	T 11
W12	3 24 1	19°25'05	10♌56	25°34	6°19	15°55	4° 6	6°47	3°30	25°18	26°42	21°25	20°11	6°23	23° 1	W12
T 13	3 27 57	20°25'21	24°47	27° 8	7°22	16°39	4° 2	6°47	3°29	25°17	26°42	21°22	20° 8	6°30	23° 7	T 13
F 14	3 31 54	21°25'39	8♌47	28°42	8°25	17°23	3°59	6°47	3°27	25°15	26°43	21°20	20° 4	6°36	23°13	F 14
S 15	3 35 51	22°25'58	22°52	0♌15	9°28	18° 7	3°56	6°48	3°25	25°14	26°43	21°D19	20° 1	6°43	23°20	S 15
S 16	3 39 47	23°26'18	7♌3	1°48	10°30	18°51	3°54	6°48	3°23	25°12	26°43	21°20	19°58	6°50	23°26	S 16
M17	3 43 44	24°26'39	21°16	3°21	11°32	19°36	3°51	6°49	3°22	25°11	26°44	21°21	19°55	6°56	23°32	M17
T 18	3 47 40	25°27'02	5°Y30	4°53	12°33	20°20	3°49	6°50	3°20	25°10	26°44	21°23	19°52	7° 3	23°39	T 18
W19	3 51 37	26°27'26	19°43	6°25	13°34	21° 4	3°47	6°50	3°18	25° 8	26°44	21°R23	19°49	7°10	23°45	W19
T 20	3 55 33	27°27'52	3♌50	7°57	14°35	21°49	3°45	6°51	3°16	25° 7	26°45	21°23	19°45	7°16	23°51	T 20
F 21	3 59 30	28°28'19	17°49	9°29	15°36	22°33	3°43	6°52	3°14	25° 5	26°45	21°20	19°42	7°23	23°58	F 21
S 22	4 3 26	29°28'48	1♌35	11° 0	16°36	23°18	3°41	6°54	3°12	25° 4	26°45	21°16	19°39	7°30	24° 4	S 22
S 23	4 7 23	0♌29'18	15° 6	12°31	17°35	24° 3	3°40	6°55	3°10	25° 3	26°45	21°10	19°36	7°36	24°11	S 23
M24	4 11 20	1°29'50	28°18	14° 2	18°35	24°47	3°39	6°56	3° 8	25° 2	26°45	21° 3	19°33	7°43	24°18	M24
T 25	4 15 16	2°30'23	11♌11	15°33	19°33	25°32	3°38	6°58	3° 6	25° 0	26°46	20°55	19°30	7°50	24°24	T 25
W26	4 19 13	3°30'58	23°46	17° 3	20°32	26°17	3°37	6°59	3° 4	24°59	26°46	20°48	19°26	7°56	24°31	W26
T 27	4 23 9	4°31'35	6♌3	18°33	21°29	27° 2	3°37	7° 1	3° 2	24°58	26°46	20°43	19°23	8° 3	24°37	T 27
F 28	4 27 6	5°32'13	18° 7	20° 2	22°27	27°47	3°36	7° 3	2°59	24°57	26°R46	20°39	19°20	8°10	24°44	F 28
S 29	4 31 2	6°32'53	0♎2	21°32	23°24	28°32	3°D36	7° 5	2°57	24°55	26°46	20°37	19°17	8°16	24°51	S 29
S 30	4 34 59	7♌33'35	11♎52	23♌1	24♌20	29♌17	3°Y37	7♌7	2♌55	24°Y54	26♏46	20°D37	19♏14	8♎23	24♌57	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
S 1	14s17	9n48	4s33	13s38	0n31	26s19	3s 2	22s18	0s43	0n31	1s34	10s45	1s54	23n35	0n13	8n17	1s43	21n16	9n12	8s25	8s 6	6n11	17s52	5n19	
S 2	14 36	6 23	3 54	14 16	0 24	26 24	3 4	22 26	0 43	0 29	1 34	10 45	1 54	23 35	0 14	8 16	1 43	21 16	9 13	8 25	8 5	6 9	17 52	5 19	
M 3	14 55	2 43	3 5	14 53	0 18	26 28	3 6	22 33	0 44	0 27	1 33	10 46	1 54	23 35	0 14	8 15	1 43	21 17	9 13	8 26	8 3	6 7	17 53	5 18	
T 4	15 14	1s 5	2 8	15 29	0 11	26 31	3 7	22 40	0 44	0 25	1 33	10 46	1 54	23 35	0 14	8 15	1 43	21 17	9 13	8 26	8 2	6 5	17 53	5 18	
W 5	15 32	4 54	1 5	16 5	0 4	26 33	3 9	22 47	0 45	0 24	1 33	10 46	1 54	23 35	0 14	8 14	1 43	21 17	9 14	8 27	8 1	6 3	17 54	5 18	
T 6	15 51	8 35	0n 3	16 40	0s 3	26 35	3 10	22 53	0 45	0 22	1 33	10 46	1 54	23 35	0 14	8 14	1 43	21 17	9 14	8 27	8 0	6 2	17 54	5 18	
F 7	16 8	11 57	1 11	17 13	0 9	26 36	3 12	22 59	0 46	0 20	1 33	10 46	1 53	23 35	0 14	8 13	1 43	21 17	9 14	8 27	7 59	6 0	17 55	5 18	
S 8	16 26	14 50	2 17	17 46	0 16	26 37	3 13	23 6	0 46	0 19	1 32	10 46	1 53	23 35	0 14	8 13	1 43	21 17	9 15	8 26	7 57	5 58	17 55	5 18	
S 9	16 43	17 1	3 17	18 18	0 23	26 37	3 14	23 11	0 47	0 18	1 32	10 46	1 53	23 35	0 14	8 12	1 43	21 17	9 15	8 25	7 56	5 56	17 56	5 17	
M10	17 1	18 19	4 8	18 50	0 29	26 36	3 15	23 17	0 47	0 16	1 32	10 46	1 53	23 35	0 14	8 12	1 43	21 17	9 15	8 24	7 55	5 54	17 56	5 17	
T 11	17 17	18 37	4 46	19 20	0 36	26 34	3 16	23 22	0 48	0 15	1 32	10 46	1 53	23 35	0 14	8 11	1 43	21 17	9 16	8 22	7 54	5 52	17 57	5 17	
W12	17 34	17 51	5 8	19 49	0 42	26 32	3 17	23 28	0 48	0 14	1 31	10 46	1 53	23 36	0 14	8 11	1 43	21 17	9 16	8 20	7 53	5 51	17 57	5 17	
T 13	17 50	16 1	5 13	20 17	0 49	26 30	3 17	23 33	0 48	0 13	1 31	10 45	1 53	23 36	0 14	8 10	1 43	21 18	9 16	8 19	7 51	5 49	17 58	5 17	
F 14	18 6	13 14	4 59	20 44	0 55	26 26	3 18	23 37	0 49	0 12	1 31	10 45	1 53	23 36	0 14	8 10	1 43	21 18	9 17	8 19	7 50	5 47	17 58	5 17	
S 15	18 21	9 40	4 27	21 11	1 1	26 22	3 18	23 42	0 49	0 11	1 31	10 45	1 52	23 36	0 14	8 9	1 43	21 18	9 17	8 18	7 49	5 45	17 58	5 17	
S 16	18 37	5 31	3 39	21 36	1 7	26 18	3 18	23 46	0 50	0 10	1 30	10 44	1 52	23 36	0 14	8 9	1 43	21 18	9 17	8 19	7 48	5 43	17 59	5 16	
M17	18 52	1 3	2 37	22 0	1 13	26 12	3 19	23 50	0 50	0 9	1 30	10 44	1 52	23 36	0 14	8 8	1 43	21 18	9 18	8 19	7 47	5 41	17 59	5 16	
T 18	19 6	3n30	1 26	22 23	1 19	26 7	3 18	23 54	0 51	0 8	1 30	10 44	1 52	23 36	0 14	8 8	1 43	21 18	9 18	8 20	7 46	5 39	18 0	5 16	
W19	19 20	7 51	0 9	22 45	1 25	26 0	3 18	23 57	0 51	0 8	1 30	10 43	1 52	23 36	0 14	8 7	1 43	21 19	9 18	8 20	7 44	5 38	18 0	5 16	
T 20	19 34	11 44	1s 7	23 5	1 30	25 53	3 18	24 1	0 51	0 7	1 29	10 43	1 52	23 36	0 14	8 7	1 43	21 19	9 19	8 20	7 43	5 36	18 0	5 16	
F 21	19 48	14 54	2 19	23 25	1 35	25 46	3 17	24 4	0 52	0 7	1 29	10 42	1 52	23 36	0 14	8 6	1 43	21 19	9 19	8 19	7 42	5 34	18 1	5 16	
S 22	20 1	17 10	3 21	23 44	1 41	25 38	3 16	24 7	0 52	0 6	1 29	10 42	1 51	23 36	0 14	8 6	1 43	21 19	9 19	8 17	7 41	5 32	18 1	5 16	
S 23	20 14	18 25	4 11	24 1	1 45	25 29	3 15	24 9	0 53	0 6	1 28	10 41	1 51	23 36	0 14	8 5	1 43	21 20	9 20	8 15	7 40	5 30	18 1	5 16	
M24	20 26	18 38	4 46	24 17	1 50	25 20	3 14	24 11	0 53	0 6	1 28	10 40	1 51	23 36	0 14	8 5	1 43	21 20	9 20	8 12	7 38	5 28	18 2	5 16	
T 25	20 38	17 52	5 5	24 32	1 55	25 10	3 13	24 13	0 53	0 6	1 28	10 40	1 51	23 36	0 14	8 4	1 43	21 20	9 20	8 9	7 37	5 27	18 2	5 16	
W26	20 50	16 15	5 9	24 45	1 59	25 0	3 12	24 15	0 54	0 6	1 28	10 39	1 51	23 36	0 14	8 4	1 43	21 20	9 21	8 7	7 36	5 25	18 2	5 16	
T 27	21 1	13 55	4 58	24 57	2 3	24 49	3 10	24 17	0 54	0 6	1 27	10 38	1 51	23 37	0 14	8 4	1 43	21 21	9 21	8 5	7 35	5 23	18 3	5 16	
F 28	21 12	11 1	4 35	25 8	2 6	24 38	3 8	24 18	0 54	0 6	1 27	10 38	1 51	23 37	0 14	8 3	1 43	21 21	9 21	8 3	7 34	5 21	18 3	5 16	
S 29	21 23	7 42	4 0	25 18	2 10	24 26	3 6	24 19	0 55	0 6	1 27	10 37	1 50	23 37	0 14	8 3	1 43	21 21	9 22	8 3	7 32	5 19	18 3	5 16	
S 30	21s33	4n 7	3s14	25s26	2s13	24s14	3s 4	24s20	0s55	0n 7	1s26	10s36	1s50	23n37	0n14	8n 2	1s43	21n22	9n22	8s 3	7s31	5n17	18s 3	5n16	

ASTRODIENST EPHEMERIS for the year 2200
geocentric

DECEMBER 2200

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	4 38 55	8♌34'18	23♎42	24♏29	25♐16	0♑2	3♒37	7♓9	2♒53	24♒53	26♒46	20♑38	19♑10	8♎30	25♏7	M 1
T 2	4 42 52	9♍35'02	5♏38	25♐57	26♑11	0♒47	3♓37	7♑11	2♑50	24♑52	26♑45	20♑39	19♑7	8♏36	25♐11	T 2
W 3	4 46 49	10♎35'49	17♏46	27♑24	27♑5	1♑32	3♑38	7♒13	2♒48	24♒51	26♒45	20♒40	19♒4	8♑43	25♑18	W 3
T 4	4 50 45	11♏36'36	0♐8	28♑51	27♑59	2♑18	3♒39	7♒16	2♒46	24♒50	26♒45	20♒40	19♒1	8♑50	25♑24	T 4
F 5	4 54 42	12♐37'25	12♑50	0♑17	28♑53	3♑3	3♒40	7♒18	2♒43	24♒49	26♒45	20♑37	18♑58	8♑56	25♑31	F 5
S 6	4 58 38	13♑38'16	25♑52	1♒42	29♒46	3♒48	3♑42	7♑21	2♒41	24♒48	26♒45	20♑32	18♑55	9♑3	25♑38	S 6
S 7	5 2 35	14♒39'07	9♒15	3♑6	0♐38	4♑34	3♒43	7♑23	2♒39	24♒47	26♒45	20♑25	18♑51	9♑10	25♑45	S 7
M 8	5 6 31	15♓40'00	22♑57	4♑29	1♑29	5♑19	3♒45	7♑26	2♒36	24♒46	26♒44	20♑16	18♑48	9♑17	25♑52	M 8
T 9	5 10 28	16♓40'54	6♑56	5♑51	2♑19	6♑5	3♒47	7♑29	2♒34	24♒45	26♒44	20♑6	18♑45	9♑23	25♑59	T 9
W10	5 14 24	17♓41'49	21♑5	7♑11	3♑9	6♑51	3♒49	7♑32	2♒31	24♒44	26♒44	19♑57	18♑42	9♑30	26♑5	W10
T 11	5 18 21	18♓42'44	5♒21	8♑29	3♑58	7♑36	3♒52	7♑35	2♒29	24♒44	26♒43	19♑49	18♑39	9♑37	26♑12	T 11
F 12	5 22 18	19♓43'41	19♑39	9♒46	4♒46	8♑22	3♒54	7♑38	2♒26	24♒43	26♒43	19♑42	18♑36	9♒43	26♑19	F 12
S 13	5 26 14	20♓44'38	3♒53	11♑0	5♑33	9♑8	3♒57	7♒41	2♒24	24♒42	26♒43	19♑39	18♑32	9♑50	26♑26	S 13
S 14	5 30 11	21♓45'35	18♑3	12♑11	6♑20	9♑54	4♑0	7♒45	2♒21	24♒41	26♒42	19♑D38	18♑29	9♑57	26♑33	S 14
M15	5 34 7	22♓46'33	2♒6	13♑18	7♑5	10♑39	4♑3	7♒48	2♒19	24♒41	26♒42	19♑38	18♑26	10♑3	26♑40	M15
T 16	5 38 4	23♓47'32	16♑2	14♑23	7♒49	11♑25	4♑7	7♒52	2♒16	24♒40	26♒41	19♑R38	18♑23	10♑10	26♑47	T 16
W17	5 42 0	24♓48'31	29♑50	15♑22	8♑33	12♑11	4♑10	7♒55	2♒14	24♒39	26♒41	19♑38	18♑20	10♑17	26♑54	W17
T 18	5 45 57	25♓49'31	13♒31	16♑17	9♑15	12♑57	4♑14	7♒59	2♒11	24♒39	26♒40	19♑36	18♑16	10♑23	27♑0	T 18
F 19	5 49 53	26♓50'31	27♑3	17♑6	9♑56	13♑43	4♑18	8♑3	2♒9	24♒38	26♒40	19♑30	18♑13	10♑30	27♑7	F 19
S 20	5 53 50	27♓51'32	10♒25	17♒49	10♑35	14♑29	4♑22	8♑7	2♒6	24♒37	26♒39	19♑22	18♑10	10♑37	27♑14	S 20
S 21	5 57 47	28♓52'33	23♑35	18♑24	11♑14	15♑15	4♑26	8♑10	2♒4	24♒37	26♒38	19♑12	18♑7	10♑43	27♑21	S 21
M22	6 1 43	29♓53'35	6♒32	18♑52	11♑51	16♑2	4♑31	8♑15	2♒1	24♒36	26♒38	18♑59	18♑4	10♑50	27♑28	M22
T 23	6 5 40	0♑54'38	19♑14	19♑10	12♑27	16♒48	4♑36	8♑19	1♑58	24♒36	26♒37	18♑46	18♑1	10♑57	27♑35	T 23
W24	6 9 36	1♑55'42	1♒42	19♑R18	13♑2	17♑34	4♑41	8♑23	1♑56	24♒36	26♒36	18♑33	17♑57	11♑3	27♑42	W24
T 25	6 13 33	2♑56'46	13♑56	19♑16	13♑35	18♑20	4♑46	8♑27	1♑53	24♒35	26♒36	18♑22	17♑54	11♑10	27♑49	T 25
F 26	6 17 29	3♑57'50	25♑58	19♑2	14♑6	19♑7	4♑51	8♑32	1♑51	24♒35	26♒35	18♑14	17♑51	11♑17	27♑55	F 26
S 27	6 21 26	4♑58'55	7♒51	18♑37	14♑36	19♑53	4♑56	8♑36	1♑48	24♒34	26♒34	18♑8	17♑48	11♑23	28♑2	S 27
S 28	6 25 22	6♑0'01	19♑40	17♑59	15♑5	20♑39	5♑2	8♑41	1♑46	24♒34	26♒33	18♑5	17♑45	11♑30	28♑9	S 28
M29	6 29 19	7♑1'08	1♒29	17♑11	15♑31	21♑26	5♑8	8♑45	1♑43	24♒34	26♒32	18♑4	17♑42	11♑37	28♑16	M29
T 30	6 33 16	8♑2'15	13♑23	16♑12	15♑56	22♑12	5♑14	8♑50	1♑40	24♒34	26♒31	18♑3	17♑38	11♑43	28♑23	T 30
W31	6 37 12	9♑3'23	25♒29	15♒4	16♒19	22♒59	5♒20	8♒55	1♒38	24♒33	26♒31	18♒3	17♒35	11♒50	28♒30	W31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	lat	lat
M 1	21s42	0n21	2s21	25s33	2s16	24s 2	3 s 1	24s20	0s55	0n 7	1s26	10s35	1s50	23n37	0n14	8n 2	1s43	21n22	9n22	8 s 3	7s30	5n15	18s 4	5n16		
T 2	21 52	3s28	1 20	25 39	2 18	23 49	2 58	24 20	0 56	0 7	1 26	10 34	1 50	23 37	0 14	8 2	1 43	21 22	9 23	8 3	7 29	5 14	18 4	5 16		
W 3	22 1	7 12	0 16	25 43	2 20	23 35	2 56	24 20	0 56	0 8	1 26	10 33	1 50	23 37	0 14	8 1	1 42	21 23	9 23	8 4	7 27	5 12	18 4	5 16		
T 4	22 9	10 43	0n51	25 46	2 21	23 21	2 52	24 20	0 56	0 9	1 25	10 32	1 50	23 37	0 14	8 1	1 42	21 23	9 23	8 4	7 26	5 10	18 4	5 16		
F 5	22 17	13 49	1 56	25 47	2 23	23 7	2 49	24 19	0 57	0 9	1 25	10 31	1 50	23 37	0 14	8 1	1 42	21 24	9 24	8 3	7 25	5 8	18 5	5 16		
S 6	22 25	16 19	2 57	25 47	2 23	22 52	2 45	24 18	0 57	0 10	1 25	10 30	1 50	23 37	0 14	8 0	1 42	21 24	9 24	8 1	7 24	5 6	18 5	5 16		
S 7	22 32	18 1	3 50	25 46	2 23	22 37	2 42	24 17	0 57	0 11	1 24	10 29	1 49	23 37	0 14	8 0	1 42	21 24	9 24	7 58	7 23	5 4	18 5	5 16		
M 8	22 38	18 42	4 31	25 43	2 23	22 22	2 38	24 16	0 58	0 12	1 24	10 28	1 49	23 37	0 14	8 0	1 42	21 25	9 25	7 55	7 21	5 2	18 5	5 16		
T 9	22 45	18 17	4 57	25 39	2 22	22 6	2 33	24 14	0 58	0 13	1 24	10 26	1 49	23 37	0 14	7 59	1 42	21 25	9 25	7 51	7 20	5 1	18 5	5 16		
W10	22 51	16 44	5 5	25 33	2 21	21 50	2 29	24 12	0 58	0 14	1 24	10 25	1 49	23 37	0 14	7 59	1 42	21 26	9 25	7 47	7 19	4 59	18 6	5 16		
T 11	22 56	14 9	4 54	25 26	2 18	21 34	2 24	24 10	0 59	0 15	1 23	10 24	1 49	23 37	0 14	7 59	1 42	21 26	9 26	7 44	7 18	4 57	18 6	5 16		
F 12	23 1	10 43	4 25	25 18	2 15	21 18	2 19	24 8	0 59	0 17	1 23	10 23	1 49	23 37	0 14	7 59	1 42	21 26	9 26	7 42	7 17	4 55	18 6	5 16		
S 13	23 5	6 40	3 39	25 9	2 12	21 1	2 13	24 5	0 59	0 18	1 23	10 21	1 49	23 38	0 14	7 58	1 42	21 27	9 26	7 41	7 15	4 53	18 6	5 16		
S 14	23 9	2 16	2 40	24 58	2 7	20 44	2 8	24 2	0 59	0 20	1 23	10 20	1 49	23 38	0 14	7 58	1 42	21 27	9 27	7 40	7 14	4 51	18 6	5 16		
M15	23 13	2n15	1 32	24 46	2 2	20 27	2 2	23 59	1 0	0 21	1 22	10 19	1 48	23 38	0 14	7 58	1 42	21 28	9 27	7 40	7 13	4 49	18 6	5 16		
T 16	23 16	6 36	0 19	24 33	1 55	20 9	1 56	23 55	1 0	0 23	1 22	10 17	1 48	23 38	0 14	7 58	1 42	21 28	9 27	7 40	7 12	4 48	18 6	5 16		
W17	23 19	10 33	0s54	24 19	1 48	19 52	1 49	23 51	1 0	0 24	1 22	10 16	1 48	23 38	0 14	7 58	1 42	21 29	9 28	7 40	7 11	4 46	18 6	5 16		
T 18	23 21	13 55	2 4	24 4	1 40	19 34	1 43	23 47	1 1	0 26	1 21	10 14	1 48	23 38	0 14	7 57	1 42	21 29	9 28	7 39	7 9	4 44	18 6	5 16		
F 19	23 22	16 28	3 5	23 49	1 30	19 16	1 36	23 43	1 1	0 28	1 21	10 13	1 48	23 38	0 14	7 57	1 42	21 30	9 28	7 37	7 8	4 42	18 6	5 17		
S 20	23 24	18 6	3 55	23 32	1 19	18 59	1 28	23 38	1 1	0 30	1 21	10 11	1 48	23 38	0 14	7 57	1 42	21 30	9 29	7 34	7 7	4 40	18 6	5 17		
S 21	23 24	18 43	4 32	23 16	1 8	18 41	1 21	23 33	1 1	0 32	1 21	10 10	1 48	23 38	0 14	7 57	1 42	21 31	9 29	7 30	7 6	4 38	18 6	5 17		
M22	23 25	18 21	4 54	22 59	0 54	18 23	1 13	23 28	1 1	0 34	1 20	10 8	1 48	23 38	0 14	7 57	1 42	21 31	9 29	7 26	7 5	4 36	18 6	5 17		
T 23	23 24	17 3	5 1	22 42	0 40	18 5	1 4	23 23	1 2	0 36	1 20	10 6	1 47	23 38	0 14	7 57	1 42	21 32	9 30	7 21	7 3	4 35	18 6	5 17		
W24	23 24	14 59	4 54	22 25	0 24	17 47	0 56	23 17	1 2	0 38	1 20	10 5	1 47	23 38	0 14	7 57	1 41	21 32	9 30	7 16	7 2	4 33	18 6	5 17		
T 25	23 23	12 16	4 32	22 9	0 7	17 28	0 47	23 11	1 2	0 40	1 19	10 3	1 47	23 38	0 14	7 56	1 41	21 33	9 30	7 12	7 1	4 31	18 6	5 17		
F 26	23 21	9 5	3 59	21 53	0n11	17 10	0 37	23 5	1 2	0 43	1 19	10 1	1 47	23 38	0 14	7 56	1 41	21 33	9 31	7 8	7 0	4 29	18 6	5 18		
S 27	23 19	5 35	3 16	21 38	0 29	16 53	0 28	22 58	1 2	0 45	1 19	9 59	1 47	23 38	0 14	7 56	1 41	21 34	9 31	7 6	6 59	4 27	18 6	5 18		
S 28	23 16	1 52	2 25	21 24	0 49	16 35	0 18	22 51	1 3	0 48	1 19	9 58	1 47	23 38	0 14	7 56	1 41	21 35	9 31	7 5	6 57	4 25	18 6	5 18		
M29	23 13	1s55	1 27	21 10	1 9	16 17	0 8	22 44	1 3	0 50	1 18	9 56	1 47	23 38	0 14	7 56	1 41	21 35	9 31	7 4	6 56	4 23	18 6	5 18		
T 30	23 10	5 40	0 25	20 58	1 28	15 59	0n 3	22 37	1 3	0 53	1 18	9 54	1 47	23 38	0 14	7 56	1 41	21 36	9 32	7 4	6 55	4 22	18 6	5 18		
W31	23s 6	9s14	0n39	20s47	1n47	15s42	0n14	22s30	1 s 3	0n55	1s18	9s52	1s47	23n38	0n14	7n56	1s41	21n36	9n32	7s 4	6s54	4n20	18s 6	5n18		