



Astrodienst Ephemeris Tables for the year 2215

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 2215

geocentric

JANUARY 2215

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 39 37	9°34'029	9°337	19°51	10°23	19°R34	24°R 7	22°53	8°R36	26°R26	24°R10	16°R24	16°347	11°Y25	19°X17	S 1
M 2	6 43 34	10°41'38	22°56	20° 7	11°38	19°R26	23°II59	22°53	8°R35	26°R25	24°R10	16°D24	16°44	11°32	19°19	M 2
T 3	6 47 30	11°42'48	5°58	20°30	12°52	19°16	23°52	22°R53	8°34	26°24	24°10	16°324	16°41	11°38	19°21	T 3
W 4	6 51 27	12°43'57	18°41	21° 1	14° 6	19° 6	23°44	22°53	8°33	26°23	24°10	16°24	16°38	11°45	19°23	W 4
T 5	6 55 23	13°45'07	1°8	21°37	15°20	18°54	23°37	22°53	8°32	26°22	24° 9	16°25	16°34	11°52	19°25	T 5
F 6	6 59 20	14°46'17	13°20	22°20	16°34	18°42	23°30	22°53	8°31	26°21	24° 9	16°25	16°31	11°59	19°27	F 6
S 7	7 3 16	15°47'26	25°21	23° 7	17°48	18°30	23°23	22°53	8°30	26°20	24° 9	16°25	16°28	12° 5	19°29	S 7
S 8	7 7 13	16°48'35	7°16	23°59	19° 2	18°16	23°16	22°52	8°28	26°19	24° 8	16°R25	16°25	12°12	19°31	S 8
M 9	7 11 9	17°49'44	19° 8	24°55	20°16	18° 2	23° 9	22°51	8°27	26°18	24° 8	16°D25	16°22	12°19	19°33	M 9
T 10	7 15 6	18°50'52	1°3	25°55	21°29	17°47	23° 3	22°51	8°26	26°17	24° 7	16°25	16°18	12°26	19°35	T 10
W11	7 19 3	19°52'01	13° 5	26°58	22°43	17°31	22°56	22°50	8°24	26°16	24° 7	16°26	16°15	12°32	19°38	W11
T 12	7 22 59	20°53'09	25°18	28° 3	23°57	17°14	22°50	22°49	8°23	26°15	24° 6	16°26	16°12	12°39	19°40	T 12
F 13	7 26 56	21°54'16	7°II47	29°11	25°11	16°57	22°43	22°48	8°21	26°14	24° 6	16°27	16° 9	12°46	19°42	F 13
S 14	7 30 52	22°55'23	20°34	0°322	26°24	16°39	22°37	22°47	8°20	26°14	24° 5	16°27	16° 6	12°52	19°45	S 14
S 15	7 34 49	23°56'30	3°342	1°34	27°38	16°21	22°31	22°45	8°18	26°13	24° 5	16°28	16° 3	12°59	19°47	S 15
M16	7 38 45	24°57'37	17° 9	2°48	28°51	16° 1	22°26	22°44	8°17	26°12	24° 4	16°R28	15°59	13° 6	19°49	M16
T 17	7 42 42	25°58'43	0°55	4° 4	0°X 5	15°42	22°20	22°43	8°15	26°12	24° 4	16°28	15°56	13°13	19°52	T 17
W18	7 46 39	26°59'48	14°57	5°21	1°18	15°21	22°14	22°41	8°13	26°11	24° 3	16°27	15°53	13°19	19°54	W18
T 19	7 50 35	28° 0'54	29°11	6°40	2°32	15° 0	22° 9	22°39	8°11	26°10	24° 2	16°25	15°50	13°26	19°57	T 19
F 20	7 54 32	29° 1'59	13°33	8° 0	3°45	14°39	22° 4	22°38	8°10	26°10	24° 1	16°24	15°47	13°33	20° 0	F 20
S 21	7 58 28	0°3'03	27°56	9°21	4°59	14°17	21°59	22°36	8° 8	26° 9	24° 1	16°22	15°44	13°40	20° 2	S 21
S 22	8 2 25	1° 4'08	12°18	10°43	6°12	13°55	21°54	22°34	8° 6	26° 9	24° 0	16°21	15°40	13°46	20° 5	S 22
M23	8 6 21	2° 5'12	26°33	12° 7	7°25	13°32	21°49	22°32	8° 4	26° 8	23°59	16°D20	15°37	13°53	20° 8	M23
T 24	8 10 18	3° 6'17	10°14	13°31	8°38	13° 9	21°45	22°29	8° 2	26° 8	23°58	16°20	15°34	14° 0	20°11	T 24
W25	8 14 14	4° 7'20	24°37	14°56	9°51	12°46	21°41	22°27	8° 0	26° 7	23°57	16°21	15°31	14° 6	20°13	W25
T 26	8 18 11	5° 8'24	8°23	16°22	11° 4	12°23	21°37	22°25	7°58	26° 7	23°56	16°22	15°28	14°13	20°16	T 26
F 27	8 22 8	6° 9'27	21°57	17°48	12°17	11°59	21°33	22°22	7°56	26° 7	23°55	16°24	15°24	14°20	20°19	F 27
S 28	8 26 4	7°10'30	5°30	19°16	13°30	11°35	21°29	22°20	7°54	26° 6	23°54	16°25	15°21	14°27	20°22	S 28
S 29	8 30 1	8°11'32	18°30	20°44	14°43	11°11	21°25	22°17	7°52	26° 6	23°54	16°R25	15°18	14°33	20°25	S 29
M30	8 33 57	9°12'34	1°28	22°13	15°56	10°47	21°22	22°14	7°49	26° 6	23°52	16°25	15°15	14°40	20°28	M30
T 31	8 37 54	10°13'34	14°13	23°343	17°X 9	10°R23	21°II19	22°11	7°47	26° 5	23°51	16°322	15°12	14°Y47	20°X31	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	23s 4	23s41	0s37	20s10	2ns52	19s20	1s48	18n26	3n41	22n51	0s26	4n40	2n 1	9n 4	0n47	S 1
M 2	22 59	20 52	0n36	20 16	2 47	19 0	1 48	18 31	3 44	22 51	0 25	4 40	2 1	9 4	0 47	M 2
T 3	22 54	17 2	1 46	20 24	2 40	18 39	1 48	18 36	3 46	22 51	0 25	4 41	2 1	9 5	0 47	T 3
W 4	22 48	12 31	2 50	20 33	2 33	18 18	1 48	18 42	3 49	22 51	0 25	4 41	2 2	9 5	0 47	W 4
T 5	22 42	7 35	3 43	20 43	2 26	17 56	1 47	18 48	3 51	22 51	0 25	4 42	2 2	9 6	0 47	T 5
F 6	22 36	2 27	4 26	20 54	2 18	17 33	1 47	18 54	3 54	22 50	0 25	4 42	2 2	9 6	0 47	F 6
S 7	22 29	2n41	4 56	21 5	2 9	17 10	1 47	19 0	3 56	22 50	0 25	4 42	2 3	9 7	0 48	S 7
S 8	22 21	7 40	5 13	21 16	2 1	16 47	1 46	19 7	3 58	22 50	0 24	4 43	2 3	9 7	0 48	S 8
M 9	22 14	12 22	5 17	21 27	1 52	16 23	1 46	19 13	4 1	22 50	0 24	4 43	2 3	9 8	0 48	M 9
T 10	22 5	16 37	5 7	21 38	1 43	15 59	1 45	19 20	4 3	22 50	0 24	4 44	2 3	9 8	0 48	T 10
W11	21 57	20 15	4 44	21 49	1 34	15 34	1 44	19 27	4 5	22 50	0 24	4 44	2 4	9 9	0 48	W11
T 12	21 47	23 4	4 7	21 59	1 25	15 9	1 44	19 34	4 7	22 49	0 24	4 45	2 4	9 9	0 48	T 12
F 13	21 38	24 51	3 18	22 9	1 16	14 44	1 43	19 41	4 9	22 49	0 24	4 45	2 4	9 10	0 48	F 13
S 14	21 28	25 23	2 19	22 18	1 7	14 18	1 42	19 49	4 11	22 49	0 23	4 46	2 4	9 11	0 48	S 14
S 15	21 18	24 32	1 10	22 26	0 58	13 52	1 41	19 56	4 13	22 49	0 23	4 47	2 5	9 11	0 48	S 15
M16	21 7	22 15	0s 4	22 34	0 49	13 25	1 40	20 4	4 15	22 49	0 23	4 48	2 5	9 12	0 48	M16
T 17	20 56	18 38	1 19	22 41	0 40	12 58	1 39	20 12	4 17	22 49	0 23	4 48	2 5	9 12	0 48	T 17
W18	20 44	13 55	2 31	22 47	0 32	12 31	1 37	20 19	4 18	22 48	0 23	4 49	2 5	9 13	0 48	W18
T 19	20 32	8 23	3 35	22 52	0 23	12 3	1 36	20 27	4 20	22 48	0 22	4 50	2 6	9 14	0 48	T 19
F 20	20 20	2 22	4 26	22 56	0 15	11 35	1 35	20 35	4 21	22 48	0 22	4 51	2 6	9 15	0 48	F 20
S 21	20 7	3s46	5 0	22 59	0 6	11 7	1 33	20 43	4 23	22 48	0 22	4 52	2 6	9 15	0 48	S 21
S 22	19 54	9 41	5 15	23 0	0s 2	10 39	1 31	20 51	4 24	22 48	0 22	4 53	2 6	9 16	0 48	S 22
M23	19 40	15 3	5 11	23 1	0 10	10 10	1 30	20 58	4 25	22 48	0 22	4 54	2 7	9 17	0 48	M23
T 24	19 26	19 34	4 48	23 1	0 17	9 41	1 28	21 6	4 26	22 48	0 22	4 55	2 7	9 18	0 48	T 24
W25	19 12	22 55	4 8	22 59	0 25	9 12	1 26	21 14	4 27	22 48	0 21	4 56	2 7	9 18	0 48	W25
T 26	18 58	24 53	3 15	22 57	0 32	8 42	1 24	21 21	4 28	22 48	0 21	4 58	2 7	9 19	0 48	T 26
F 27	18 43	25 21	2 11	22 53	0 39	8 12	1 22	21 29	4 29	22 48	0 21	4 59	2 8	9 20	0 48	F 27
S 28	18 27	24 19	1 1	22 47	0 46	7 42	1 20	21 36	4 30	22 48	0 21	5 0	2 8	9 21	0 48	S 28
S 29	18 12	21 57	0n11	22 41	0 53	7 12	1 18	21 44	4 30	22 47	0 21	5 1	2 8	9 22	0 48	S 29
M30	17 56	18 29	1 22	22 33	0 59	6 42	1 15	21 51	4 31	22 47	0 20	5 3	2 8	9 22	0 48	M30
T 31	17s40	14s12	2n27	22s24	1s 5	6s12	1s13	21n58	4n31	22n47	0s20	5n 4	2n 9	9n23	0n48	T 31

Julian Day Number = 2530071.5, Delta T = 178.40 sec
 Ecliptic obliquity = 23°24'43, Nutation = 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°44'42, Lahiri = 26°51'42

ASTRODIENST EPHEMERIS for the year 2215

geocentric

FEBRUARY 2215

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 41 50	11°14'34"	26°45'	25°13'	18°21'	9°R59	21°R16	22°R 8	7°R45	26°R 5	23°R50	16°R19	15°R 9	14°Y54	20°X34	W 1
T 2	8 45 47	12°15'32"	9°H 5	26°44'	19°34'	9°Ω35	21°II13	22°R 5	7°R43	26°R 5	23°R49	16°R15	15° 5	15° 0	20°37'	T 2
F 3	8 49 43	13°16'30"	21°14'	28°16'	20°46'	9°11	21°10	22° 2	7°40	26° 5	23°48	16°10	15° 2	15° 7	20°41'	F 3
S 4	8 53 40	14°17'26"	3°Y15	29°48'	21°59'	8°47	21° 8	21°59	7°38	26° 5	23°47	16° 5	14°59	15°14	20°44'	S 4
S 5	8 57 37	15°18'22"	15° 9	1°21	23°11'	8°24	21° 6	21°56	7°36	26° 5	23°46	16° 1	14°56	15°20	20°47'	S 5
M 6	9 1 33	16°19'16"	27° 0	2°55	24°23'	8° 1	21° 4	21°52	7°33	26°D 5	23°45	15°58	14°53	15°27	20°50'	M 6
T 7	9 5 30	17°20'09"	8°B53	4°30	25°35'	7°38	21° 2	21°49	7°31	26° 5	23°44	15°56	14°50	15°34	20°53'	T 7
W 8	9 9 26	18°21'00"	20°53	6° 5	26°48'	7°15	21° 1	21°45	7°28	26° 5	23°42	15°D55	14°46	15°41	20°57'	W 8
T 9	9 13 23	19°21'50"	3°II 3	7°41	27°59'	6°53	20°59	21°42	7°26	26° 5	23°41	15°56	14°43	15°47	21° 0	T 9
F 10	9 17 19	20°22'39"	15°29	9°18	29°11'	6°31	20°58	21°38	7°24	26° 5	23°40	15°58	14°40	15°54	21° 3	F 10
S 11	9 21 16	21°23'26"	28°16	10°55	0°Y23	6°10	20°57	21°34	7°21	26° 5	23°39	16° 0	14°37	16° 1	21° 7	S 11
S 12	9 25 12	22°24'12"	11°E26	12°33	1°35	5°50	20°56	21°31	7°19	26° 6	23°37	16°R 1	14°34	16° 7	21°10	S 12
M13	9 29 9	23°24'56"	25° 2	14°12	2°46	5°29	20°56	21°27	7°16	26° 6	23°36	16° 0	14°30	16°14	21°13	M13
T 14	9 33 6	24°25'39"	9°Ω 4	15°52	3°58	5°10	20°55	21°23	7°14	26° 6	23°35	15°58	14°27	16°21	21°17	T 14
W15	9 37 2	25°26'21"	23°28	17°33	5° 9	4°51	20°D55	21°19	7°11	26° 6	23°33	15°54	14°24	16°28	21°20	W15
T 16	9 40 59	26°27'01"	8°R10	19°14	6°21	4°32	20°55	21°15	7° 8	26° 7	23°32	15°49	14°21	16°34	21°24	T 16
F 17	9 44 55	27°27'40"	23° 1	20°56	7°32	4°15	20°56	21°10	7° 6	26° 7	23°30	15°42	14°18	16°41	21°27	F 17
S 18	9 48 52	28°28'17"	7°A53	22°40	8°43	3°58	20°56	21° 6	7° 3	26° 7	23°29	15°36	14°15	16°48	21°31	S 18
S 19	9 52 48	29°28'54"	22°39	24°24	9°54	3°41	20°57	21° 2	7° 1	26° 8	23°28	15°30	14°11	16°55	21°34	S 19
M20	9 56 45	0°X29'45	7°R10	26° 8	11° 5	3°26	20°58	20°58	6°58	26° 8	23°26	15°26	14° 8	17° 1	21°38	M20
T 21	10 0 41	1°30'03"	21°24	27°54	12°15	3°11	20°59	20°53	6°55	26° 9	23°25	15°23	14° 5	17° 8	21°41	T 21
W22	10 4 38	2°30'36"	5°X19	29°41	13°26	2°56	21° 0	20°49	6°53	26° 9	23°23	15°D23	14° 2	17°15	21°45	W22
T 23	10 8 35	3°31'08"	18°54	1°X28	14°36	2°43	21° 1	20°45	6°50	26°10	23°22	15°24	13°59	17°21	21°49	T 23
F 24	10 12 31	4°31'39"	2°B12	3°17	15°47	2°30	21° 3	20°40	6°48	26°11	23°20	15°25	13°56	17°28	21°52	F 24
S 25	10 16 28	5°32'08"	15°14	5° 6	16°57	2°18	21° 5	20°36	6°45	26°11	23°19	15°R26	13°52	17°35	21°56	S 25
S 26	10 20 24	6°32'36"	28° 2	6°56	18° 7	2° 7	21° 7	20°31	6°42	26°12	23°17	15°25	13°49	17°42	22° 0	S 26
M27	10 24 21	7°33'02"	10°A39	8°47	19°17	1°57	21° 9	20°27	6°40	26°13	23°16	15°22	13°46	17°48	22° 3	M27
T 28	10 28 17	8°X33'27	23°A 6	10°X39	20°Y27	1°Ω47	21°II12	20°R22	6°R37	26°R13	23°R14	15°R16	13°R43	17°Y55	22°X 7	T 28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	17s23	9s23	3n24	22s14	1s11	5s41	1s11	22n 5	4n32	22n47	0s20	5n 5	2n 9	9n24	0n48	17n35
T 2	17 6 4 18	4 10 22 3	1 17	5 10	1 8	22 12	4 32	22 47	0 20	5 7	2 9	9 25	0 48	17 35	1 43	16 22
F 3	16 49	0n53	4 44	21 50	1 22	4 39	1 6	22 18	4 32	22 47	0 20	5 8	2 9	9 26	0 48	17 35
S 4	16 31	5 57	5 5	21 36	1 27	4 9	1 3	22 24	4 32	22 47	0 20	5 10	2 10	9 27	0 48	17 35
S 5	16 14	10 46	5 13	21 20	1 32	3 37	1 0	22 31	4 31	22 48	0 19	5 11	2 10	9 28	0 48	17 35
M 6	15 56	15 10	5 7	21 3	1 37	3 6	0 57	22 36	4 31	22 48	0 19	5 13	2 10	9 29	0 48	17 35
T 7	15 37	18 59	4 48	20 45	1 41	2 35	0 54	22 42	4 31	22 48	0 19	5 14	2 10	9 29	0 48	17 35
W 8	15 19	22 4	4 16	20 26	1 45	2 4	0 51	22 47	4 30	22 48	0 19	5 16	2 10	9 30	0 48	17 35
T 9	15 0	24 14	3 33	20 5	1 49	1 32	0 48	22 52	4 30	22 48	0 19	5 17	2 11	9 31	0 48	17 36
F 10	14 41	25 15	2 39	19 43	1 52	1 1	0 45	22 57	4 29	22 48	0 18	5 19	2 11	9 32	0 49	17 36
S 11	14 21	24 59	1 35	19 19	1 55	0 29	0 42	23 2	4 28	22 48	0 18	5 21	2 11	9 33	0 49	17 36
S 12	14 2	23 20	0 25	18 54	1 58	0n 2	0 39	23 6	4 27	22 48	0 18	5 22	2 11	9 34	0 49	17 36
M13	13 42	20 18	0s49	18 28	2 0	0 33	0 36	23 10	4 26	22 48	0 18	5 24	2 11	9 35	0 49	17 36
T 14	13 22	16 0	2 2	18 0	2 2	1 5	0 32	23 14	4 25	22 48	0 18	5 26	2 12	9 36	0 49	17 36
W15	13 2	10 42	3 9	17 31	2 4	1 36	0 29	23 18	4 24	22 49	0 17	5 28	2 12	9 37	0 49	17 36
T 16	12 41	4 42	4 5	17 1	2 5	2 8	0 25	23 21	4 23	22 49	0 17	5 29	2 12	9 38	0 49	17 36
F 17	12 20	1s36	4 45	16 29	2 6	2 39	0 22	23 24	4 21	22 49	0 17	5 31	2 12	9 39	0 49	17 37
S 18	12 0	7 49	5 6	15 56	2 6	3 10	0 18	23 27	4 20	22 49	0 17	5 33	2 12	9 40	0 49	17 37
S 19	11 38	13 32	5 6	15 22	2 6	3 42	0 14	23 30	4 19	22 49	0 17	5 35	2 12	9 41	0 49	17 37
M20	11 17	18 24	4 47	14 46	2 6	4 13	0 11	23 32	4 17	22 50	0 17	5 37	2 13	9 42	0 49	17 37
T 21	10 56	22 7	4 10	14 9	2 5	4 44	0 7	23 34	4 15	22 50	0 16	5 38	2 13	9 43	0 49	17 37
W22	10 34	24 26	3 19	13 30	2 4	5 15	0 3	23 36	4 14	22 50	0 16	5 40	2 13	9 44	0 49	17 37
T 23	10 12	25 15	2 18	12 50	2 2	5 46	0n 1	23 37	4 12	22 50	0 16	5 42	2 13	9 45	0 49	17 38
F 24	9 50	24 34	1 11	12 9	1 59	6 17	0 5	23 38	4 10	22 51	0 16	5 44	2 13	9 46	0 49	17 38
S 25	9 28	22 34	0 1	11 26	1 57	6 47	0 9	23 39	4 9	22 51	0 16	5 46	2 13	9 47	0 49	17 38
S 26	9 6	19 26	1n 7	10 43	1 53	7 18	0 13	23 40	4 7	22 51	0 16	5 48	2 13	9 48	0 49	17 38
M27	8 44	15 26	2 11	9 58	1 50	7 48	0 17	23 41	4 5	22 52	0 15	5 50	2 14	9 49	0 49	17 38
T 28	8s21	10s51	3n 8	9s11	1s45	8n18	0n21	23n41	4n 3	22n52	0s15	5n52	2n14	9n50	0n49	17n39

Julian Day Number = 2530102.5, Delta T = 178.49 sec
 Ecliptic obliquity = 23°24'43", Nutation = 0°00'18", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°44'46", Lahiri = 26°51'47"

ASTRODIENST EPHEMERIS for the year 2215

geocentric

MARCH 2215

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 32 14	9°33'51	5°24	12°31	21°36	1°38	21°14	20°17	6°34	26°14	23°13	15°R 8	13°34	18°Y 2	22°11	W 1
T 2	10 36 10	10°34'12	17°33	14°25	22°46	1°30	21°17	20°13	6°32	26°15	23°11	14°35	13°36	18° 8	22°14	T 2
F 3	10 40 7	11°34'32	29°36	16°18	23°55	1°23	21°20	20° 8	6°29	26°16	23°10	14°46	13°33	18°15	22°18	F 3
S 4	10 44 4	12°34'50	11°33	18°13	25° 5	1°17	21°23	20° 3	6°27	26°17	23° 8	14°35	13°30	18°22	22°22	S 4
S 5	10 48 0	13°35'06	23°25	20° 7	26°14	1°11	21°27	19°58	6°24	26°18	23° 6	14°24	13°27	18°29	22°25	S 5
M 6	10 51 57	14°35'21	5°16	22° 2	27°23	1° 6	21°30	19°54	6°21	26°18	23° 5	14°15	13°24	18°35	22°29	M 6
T 7	10 55 53	15°35'33	17° 8	23°57	28°31	1° 2	21°34	19°49	6°19	26°19	23° 3	14° 9	13°21	18°42	22°33	T 7
W 8	10 59 50	16°35'44	29° 5	25°51	29°40	0°59	21°38	19°44	6°16	26°20	23° 2	14° 5	13°17	18°49	22°37	W 8
T 9	11 3 46	17°35'52	11°12	27°46	0°48	0°57	21°42	19°39	6°14	26°21	23° 0	14° 3	13°14	18°56	22°40	T 9
F 10	11 7 43	18°35'58	23°33	29°39	1°57	0°55	21°46	19°35	6°11	26°23	22°59	14°D 3	13°11	19° 2	22°44	F 10
S 11	11 11 39	19°36'03	6°14	1°32	3° 5	0°54	21°51	19°30	6° 8	26°24	22°57	14° 3	13° 8	19° 9	22°48	S 11
S 12	11 15 36	20°36'05	19°19	3°23	4°12	0°D54	21°55	19°25	6° 6	26°25	22°55	14°R 3	13° 5	19°16	22°52	S 12
M13	11 19 33	21°36'05	2°53	5°12	5°20	0°55	22° 0	19°20	6° 3	26°26	22°54	14° 2	13° 2	19°22	22°55	M13
T 14	11 23 29	22°36'02	16°56	6°58	6°28	0°56	22° 5	19°15	6° 1	26°27	22°52	13°58	12°58	19°29	22°59	T 14
W15	11 27 26	23°35'58	1°27	8°43	7°35	0°58	22°10	19°11	5°58	26°28	22°50	13°52	12°55	19°36	23° 3	W15
T 16	11 31 22	24°35'52	16°22	10°23	8°42	1° 1	22°16	19° 6	5°56	26°30	22°49	13°43	12°52	19°43	23° 7	T 16
F 17	11 35 19	25°35'43	1°32	12° 1	9°49	1° 4	22°21	19° 1	5°54	26°31	22°47	13°33	12°49	19°49	23°10	F 17
S 18	11 39 15	26°35'33	16°47	13°33	10°55	1° 8	22°27	18°56	5°51	26°32	22°46	13°22	12°46	19°56	23°14	S 18
S 19	11 43 12	27°35'21	1°56	15° 1	12° 2	1°13	22°33	18°52	5°49	26°33	22°44	13°12	12°42	20° 3	23°18	S 19
M20	11 47 8	28°35'07	16°48	16°24	13° 8	1°18	22°39	18°47	5°46	26°35	22°42	13° 4	12°39	20° 9	23°21	M20
T 21	11 51 5	29°34'52	1°18	17°41	14°14	1°24	22°45	18°42	5°44	26°36	22°41	12°59	12°36	20°16	23°25	T 21
W22	11 55 1	0°34'35	15°23	18°52	15°19	1°31	22°51	18°38	5°42	26°38	22°39	12°57	12°33	20°23	23°29	W22
T 23	11 58 58	1°34'16	29° 1	19°57	16°25	1°38	22°58	18°33	5°39	26°39	22°38	12°D56	12°30	20°30	23°33	T 23
F 24	12 2 55	2°33'55	12°15	20°54	17°30	1°46	23° 4	18°29	5°37	26°41	22°36	12°R56	12°27	20°36	23°36	F 24
S 25	12 6 51	3°33'33	25° 8	21°44	18°35	1°55	23°11	18°24	5°35	26°42	22°35	12°55	12°23	20°43	23°40	S 25
S 26	12 10 48	4°33'09	7°45	22°27	19°39	2° 4	23°18	18°19	5°33	26°44	22°33	12°53	12°20	20°50	23°44	S 26
M27	12 14 44	5°32'43	20° 8	23° 2	20°44	2°13	23°25	18°15	5°31	26°45	22°31	12°49	12°17	20°57	23°47	M27
T 28	12 18 41	6°32'16	2°21	23°29	21°48	2°24	23°32	18°11	5°28	26°47	22°30	12°41	12°14	21° 3	23°51	T 28
W29	12 22 37	7°31'46	14°27	23°49	22°52	2°35	23°40	18° 6	5°26	26°48	22°28	12°31	12°11	21°10	23°55	W29
T 30	12 26 34	8°31'15	26°27	24° 0	23°55	2°46	23°47	18° 2	5°24	26°50	22°27	12°18	12° 7	21°17	23°59	T 30
F 31	12 30 30	9°30'41	8°23	24°R 4	24°58	2°58	23°55	17°58	5°22	26°51	22°25	12°3 3	12°3 4	21°Y23	24°Y 2	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	7s58	5s53	3n55	8s24	1s40	8n48	0n25	23n41	4n 1	22n52	0s15	5n54	2n14	9n51	0n49	17n39
T 2	7 36	0 46	4 30	7 35	1 35	9 18	0 29	23 41	3 59	22 53	0 15	5 56	2 14	9 52	0 49	17 39
F 3	7 13	4n20	4 53	6 45	1 29	9 48	0 34	23 41	3 57	22 53	0 15	5 58	2 14	9 53	0 49	17 39
S 4	6 50	9 13	5 3	5 55	1 22	10 17	0 38	23 40	3 55	22 53	0 15	5 59	2 14	9 53	0 49	17 40
S 5	6 27	13 44	5 0	5 3	1 15	10 46	0 42	23 39	3 53	22 54	0 14	6 1	2 14	9 54	0 49	17 40
M 6	6 4	17 43	4 44	4 11	1 7	11 15	0 47	23 39	3 51	22 54	0 14	6 3	2 14	9 55	0 49	17 40
T 7	5 40	21 1	4 15	3 17	0 58	11 44	0 51	23 37	3 49	22 55	0 14	6 5	2 14	9 56	0 49	17 40
W 8	5 17	23 26	3 36	2 24	0 49	12 12	0 55	23 36	3 47	22 55	0 14	6 7	2 14	9 57	0 49	17 41
T 9	4 54	24 50	2 46	1 29	0 39	12 40	1 0	23 35	3 45	22 55	0 14	6 9	2 15	9 58	0 49	17 41
F 10	4 30	25 2	1 47	0 35	0 29	13 8	1 4	23 33	3 43	22 56	0 14	6 11	2 15	9 59	0 49	17 41
S 11	4 7	23 57	0 42	0n20	0 18	13 36	1 8	23 31	3 40	22 56	0 13	6 13	2 15	10 0	0 49	17 42
S 12	3 43	21 34	0s28	1 14	0 7	14 3	1 13	23 29	3 38	22 57	0 13	6 15	2 15	10 1	0 49	17 42
M13	3 20	17 54	1 38	2 8	0n 5	14 30	1 17	23 27	3 36	22 57	0 13	6 17	2 15	10 2	0 49	17 42
T 14	2 56	13 7	2 45	3 1	0 17	14 57	1 22	23 25	3 34	22 58	0 13	6 19	2 15	10 3	0 49	17 43
W15	2 32	7 28	3 43	3 54	0 29	15 23	1 26	23 22	3 32	22 58	0 13	6 21	2 15	10 4	0 49	17 43
T 16	2 9	1 15	4 28	4 45	0 42	15 49	1 31	23 19	3 30	22 59	0 13	6 23	2 15	10 5	0 49	17 43
F 17	1 45	5s 7	4 55	5 35	0 55	16 15	1 35	23 17	3 28	22 59	0 12	6 25	2 15	10 6	0 49	17 44
S 18	1 21	11 13	5 1	6 24	1 8	16 40	1 40	23 14	3 26	23 0	0 12	6 26	2 15	10 6	0 49	17 44
S 19	0 57	16 36	4 46	7 10	1 21	17 5	1 44	23 10	3 24	23 0	0 12	6 28	2 15	10 7	0 49	17 44
M20	0 34	20 51	4 11	7 54	1 34	17 29	1 49	23 7	3 21	23 0	0 12	6 30	2 15	10 8	0 49	17 45
T 21	0 10	23 41	3 21	8 35	1 47	17 54	1 53	23 4	3 19	23 1	0 12	6 32	2 15	10 9	0 48	17 45
W22	0n14	24 56	2 20	9 14	2 0	18 17	1 58	23 0	3 17	23 1	0 12	6 34	2 15	10 10	0 48	17 45
T 23	0 37	24 37	1 13	9 49	2 12	18 41	2 2	22 57	3 15	23 2	0 12	6 36	2 15	10 11	0 48	17 46
F 24	1 1	22 54	0 4	10 22	2 23	19 4	2 7	22 53	3 13	23 2	0 11	6 37	2 15	10 11	0 48	17 46
S 25	1 25	20 2	1n 4	10 50	2 34	19 26	2 11	22 49	3 11	23 3	0 11	6 39	2 15	10 12	0 48	17 47
S 26	1 48	16 16	2 7	11 16	2 44	19 48	2 15	22 45	3 9	23 3	0 11	6 41	2 15	10 13	0 48	17 47
M27	2 12	11 52	3 3	11 37	2 53	20 10	2 20	22 41	3 7	23 4	0 11	6 43	2 15	10 14	0 48	17 47
T 28	2 36	7 3	3 49	11 55	3 1	20 31	2 24	22 36	3 5	23 4	0 11	6 44	2 15	10 15	0 48	17 48
W29	2 59	2 2	4 25	12 8	3 8	20 52	2 28	22 32	3 3	23 5	0 11	6 46	2 15	10 15	0 48	17 48
T 30	3 23	3n 0	4 48	12 18	3 13	21 12	2 33	22 28	3 1	23 5	0 11	6 48	2 15	10 16	0 48	17 49
F 31	3n46	7n54	4n59	12n23	3n18	21n32	2n37	22n23	2n59	23n 6	0s10	6n49	2n15	10n17	0n48	17n49

Julian Day Number = 2530130.5, Delta T = 178.57 sec

Ecliptic obliquity = 23°24'43, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°44'50, Lahiri = 26°51'50

ASTRODIENST EPHEMERIS for the year 2215

geocentric

APRIL 2215

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 34 27	10°30'06	20°16	24°R 0	26°8 1	3°10 10	24°II 3	17°R53	5°R20	26°853	22°R24	11°R48	12°3 1	21°V30	24°K 6	S 1
S 2	12 38 24	11°29'28	2°8 8	23°V49	27° 4	3°23	24°10	17°M49	5°M18	26°55	22°M22	11°35	11°58	21°37	24° 9	S 2
M 3	12 42 20	12°28'49	13°59	23°31	28° 6	3°37	24°19	17°45	5°16	26°57	22°21	11°23	11°55	21°44	24°13	M 3
T 4	12 46 17	13°28'07	25°53	23° 7	29° 8	3°51	24°27	17°41	5°14	26°58	22°19	11°13	11°52	21°50	24°17	T 4
W 5	12 50 13	14°27'23	7°II51	22°37	0°II10	4° 5	24°35	17°37	5°12	27° 0	22°18	11° 7	11°48	21°57	24°20	W 5
T 6	12 54 10	15°26'37	19°59	22° 1	1°11	4°20	24°43	17°33	5°11	27° 2	22°16	11° 4	11°45	22° 4	24°24	T 6
F 7	12 58 6	16°25'49	2°518	21°22	2°11	4°36	24°52	17°29	5° 9	27° 4	22°15	11° 2	11°42	22°10	24°27	F 7
S 8	13 2 3	17°24'58	14°56	20°39	3°12	4°51	25° 1	17°25	5° 7	27° 5	22°13	11° 2	11°39	22°17	24°31	S 8
S 9	13 5 59	18°24'05	27°55	19°53	4°12	5° 8	25°10	17°21	5° 5	27° 7	22°12	11° 2	11°36	22°24	24°34	S 9
M10	13 9 56	19°23'10	11°121	19° 6	5°11	5°24	25°19	17°18	5° 4	27° 9	22°11	11° 1	11°33	22°31	24°38	M10
T 11	13 13 53	20°22'12	25°16	18°18	6°11	5°42	25°28	17°14	5° 2	27°11	22° 9	10°57	11°29	22°37	24°41	T 11
W12	13 17 49	21°21'12	9°M40	17°30	7° 9	5°59	25°37	17°11	5° 1	27°13	22° 8	10°51	11°26	22°44	24°45	W12
T 13	13 21 46	22°20'10	24°31	16°44	8° 7	6°17	25°46	17° 7	4°59	27°15	22° 7	10°42	11°23	22°51	24°48	T 13
F 14	13 25 42	23°19'05	9°124	15°59	9° 5	6°35	25°56	17° 4	4°58	27°17	22° 5	10°32	11°20	22°58	24°52	F 14
S 15	13 29 39	24°17'59	25° 3	15°18	10° 2	6°54	26° 5	17° 0	4°56	27°19	22° 4	10°21	11°17	23° 4	24°55	S 15
S 16	13 33 35	25°16'50	10°M22	14°39	10°59	7°13	26°15	16°57	4°55	27°21	22° 3	10°11	11°13	23°11	24°58	S 16
M17	13 37 32	26°15'40	25°28	14° 5	11°55	7°33	26°24	16°54	4°53	27°23	22° 1	10° 3	11°10	23°18	25° 2	M17
T 18	13 41 28	27°14'28	10°112	13°35	12°51	7°53	26°34	16°51	4°52	27°25	22° 0	9°58	11° 7	23°24	25° 5	T 18
W19	13 45 25	28°13'14	24°29	13° 9	13°46	8°13	26°44	16°48	4°51	27°27	21°59	9°55	11° 4	23°31	25° 8	W19
T 20	13 49 22	29°11'59	8°317	12°49	14°40	8°33	26°54	16°45	4°50	27°29	21°58	9°D54	11° 1	23°38	25°11	T 20
F 21	13 53 18	0°8'10'42	21°37	12°34	15°34	8°54	27° 4	16°42	4°48	27°31	21°56	9°54	10°58	23°45	25°15	F 21
S 22	13 57 15	1° 9'23	4°32	12°23	16°28	9°15	27°15	16°39	4°47	27°33	21°55	9°R54	10°54	23°51	25°18	S 22
S 23	14 1 11	2° 8'02	17° 7	12°D18	17°20	9°37	27°25	16°37	4°46	27°35	21°54	9°53	10°51	23°58	25°21	S 23
M24	14 5 8	3° 6'40	29°26	12°19	18°12	9°59	27°35	16°34	4°45	27°37	21°53	9°50	10°48	24° 5	25°24	M24
T 25	14 9 4	4° 5'16	11°K33	12°24	19° 4	10°21	27°46	16°32	4°44	27°39	21°52	9°45	10°45	24°11	25°27	T 25
W26	14 13 1	5° 3'50	23°32	12°34	19°54	10°43	27°57	16°29	4°43	27°41	21°51	9°36	10°42	24°18	25°30	W26
T 27	14 16 57	6° 2'23	5°V27	12°49	20°44	11° 6	28° 7	16°27	4°42	27°43	21°50	9°26	10°39	24°25	25°33	T 27
F 28	14 20 54	7° 0'53	17°18	13° 9	21°33	11°29	28°18	16°25	4°42	27°45	21°49	9°14	10°35	24°32	25°36	F 28
S 29	14 24 50	7°59'22	29°10	13°33	22°22	11°52	28°29	16°23	4°41	27°47	21°48	9° 2	10°32	24°38	25°39	S 29
S 30	14 28 47	8°57'50	11°8 2	14°V 2	23°II 9	12°16	28°II40	16°M21	4°M40	27°50	21°M47	8°351	10°329	24°V45	25°K42	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	4n 9	12n29	4n56	12n24	3n20	21n51	2n41	22n18	2n57	23n 6	0s10	6n51	2n15	10n18	0n48	17n49	1s40	17n 5	15n21	22s53	22s52	13n 5	1n26	4n 7	
S 2	4 32	16 35	4 41	12 21	3 22	22 10	2 45	22 13	2 55	23 7	0 10	6 53	2 15	10 18	0 48	17 50	1 40	17 5	15 21	22 55	22 52	13 7	1 28	4 7	
M 3	4 56	20 2	4 13	12 14	3 21	22 28	2 49	22 8	2 54	23 7	0 10	6 54	2 15	10 19	0 48	17 50	1 39	17 6	15 21	22 56	22 53	13 9	1 29	4 7	
T 4	5 19	22 40	3 34	12 3	3 19	22 46	2 54	22 3	2 52	23 8	0 10	6 56	2 15	10 20	0 48	17 51	1 39	17 6	15 21	22 56	22 53	13 12	1 31	4 7	
W 5	5 42	24 19	2 46	11 48	3 15	23 3	2 58	21 58	2 50	23 8	0 10	6 57	2 15	10 20	0 48	17 51	1 39	17 7	15 21	22 57	22 53	13 14	1 32	4 7	
T 6	6 4	24 51	1 49	11 30	3 10	23 20	3 1	21 52	2 48	23 9	0 10	6 59	2 15	10 21	0 48	17 52	1 39	17 7	15 21	22 57	22 54	13 17	1 33	4 7	
F 7	6 27	24 10	0 46	11 9	3 3	23 36	3 5	21 47	2 46	23 9	0 9	7 0	2 15	10 22	0 48	17 52	1 39	17 8	15 20	22 57	22 54	13 19	1 35	4 7	
S 8	6 50	22 14	0s21	10 44	2 54	23 52	3 9	21 41	2 44	23 10	0 9	7 2	2 14	10 22	0 48	17 52	1 39	17 8	15 20	22 57	22 54	13 21	1 36	4 7	
S 9	7 12	19 7	1 28	10 17	2 44	24 7	3 13	21 35	2 42	23 10	0 9	7 3	2 14	10 23	0 48	17 53	1 39	17 8	15 20	22 57	22 54	13 24	1 38	4 7	
M10	7 35	14 54	2 33	9 49	2 32	24 22	3 17	21 30	2 41	23 11	0 9	7 4	2 14	10 23	0 48	17 53	1 39	17 9	15 20	22 57	22 55	13 26	1 39	4 7	
T 11	7 57	9 46	3 31	9 18	2 19	24 36	3 20	21 24	2 39	23 11	0 9	7 6	2 14	10 24	0 48	17 54	1 39	17 9	15 20	22 58	22 55	13 28	1 40	4 7	
W12	8 19	3 57	4 18	8 47	2 5	24 50	3 24	21 17	2 37	23 12	0 9	7 7	2 14	10 24	0 48	17 54	1 39	17 10	15 20	22 58	22 55	13 31	1 42	4 7	
T 13	8 41	2s15	4 49	8 16	1 50	25 3	3 27	21 11	2 35	23 12	0 9	7 8	2 14	10 25	0 48	17 55	1 39	17 10	15 19	22 59	22 55	13 33	1 43	4 7	
F 14	9 3	8 27	5 1	7 44	1 34	25 15	3 31	21 5	2 34	23 12	0 9	7 10	2 14	10 25	0 48	17 55	1 39	17 10	15 19	23 0	22 56	13 36	1 45	4 7	
S 15	9 25	14 12	4 51	7 13	1 18	25 27	3 34	20 59	2 32	23 13	0 8	7 11	2 14	10 26	0 48	17 56	1 39	17 11	15 19	23 1	22 56	13 38	1 46	4 7	
S 16	9 46	19 2	4 21	6 43	1 2	25 39	3 37	20 52	2 30	23 13	0 8	7 12	2 14	10 26	0 48	17 56	1 39	17 11	15 19	23 1	22 56	13 40	1 47	4 7	
M17	10 8	22 32	3 32	6 14	0 45	25 50	3 40	20 45	2 29	23 14	0 8	7 13	2 14	10 27	0 48	17 57	1 39	17 11	15 19	23 2	22 57	13 43	1 49	4 7	
T 18	10 29	24 26	2 30	5 48	0 29	26 0	3 43	20 39	2 27	23 14	0 8	7 14	2 14	10 27	0 48	17 57	1 39	17 12	15 18	23 2	22 57	13 45	1 50	4 7	
W19	10 50	24 39	1 21	5 23	0 12	26 10	3 46	20 32	2 25	23 14	0 8	7 15	2 13	10 28	0 48	17 58	1 39	17 12	15 18	23 3	22 57	13 47	1 51	4 7	
T 20	11 11	23 18	0 9	5 0	0s 4	26 19	3 49	20 25	2 24	23 15	0 8	7 16	2 13	10 28	0 48	17 58	1 39	17 12	15 18	23 3	22 57	13 50	1 53	4 8	
F 21	11 31	20 40	1n 2	4 39	0 20	26 28	3 51	20 18	2 22	23 15	0 8	7 17	2 13	10 29	0 48	17 59	1 39	17 12	15 18	23 3	22 58	13 52	1 54	4 8	
S 22	11 52	17 3	2 7	4 21	0 35	26 36	3 54	20 11	2 20	23 15	0 8	7 18	2 13	10 29	0 48	17 59	1 39	17 13	15 18	23 3	22 58	13 54	1 55	4 8	
S 23	12 12	12 46	3 4	4 6	0 49	26 44	3 56	20 3	2 19	23 16	0 7	7 19	2 13	10 29	0 48	18 0	1 39	17 13	15 17	23 3	22 58	13 57	1 57	4 8	
M24	12 32	8 2	3 51	3 53	1 3	26 51	3 58	19 56	2 17	23 16	0 7	7 20	2 13	10 30	0 48	18 0	1 39	17 13	15 17	23 3	22 58	13 59	1 58	4 8	
T 25	12 52	3 6	4 27	3 43	1 16	26 57	4 1	19 48	2 16	23 16	0 7	7 21	2 13	10 30	0 48	18 1	1 39	17 13	15 17	23 3	22 59	14 1	1 59	4 8	
W26	13 12	1n54	4 51	3 36	1 29	27 3	4 3	19 41	2 14	23 17	0 7	7 22	2 13	10 30	0 47	18 1	1 39	17 13	15 16	23 4	22 59	14 4	2 1	4 8	
T 27	13 31	6 47	5 2	3 31	1 41	27 9	4 4	19 33	2 13	23 17	0 7	7 23	2 12	10 31	0 47	18 2	1 39	17 14	15 16	23 5	22 59	14 6	2 2	4 8	
F 28	13 50	11 24	5 0	3 28	1 52	27 14	4 6	19 25	2 11	23 17	0 7	7 23	2 12	10 31	0 47	18 2	1 39	17 14	15 16	23 5	22 59	14 8	2 3	4 8	
S 29	14 9	15 36	4 45	3 28	2 2	27 19	4 8	19 17	2 10	23 17	0 7	7 24	2 12	10 31	0 47	18 3	1 39	17 14	15 16	23 6	23 0	14 10	2 4	4 8	
S 30	14n28	19n11	4n17	3n30	2s11	27n23	4n 9	19n 9	2n 8	23n18	0s 7	7n25	2n12	10n31	0n47	18n 3	1s39	17n14	15n15	23s 7	23s 0	14n13	2n 6	4n 7	

ASTRODIENST EPHEMERIS for the year 2215

geocentric

MAY 2215

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 32 44	9°56'15	22°58	14°34	23°56	12°40	28°51	16°R19	4°R39	27°52	21°R46	8°R41	10°26	24°Y52	25°K45	M 1
T 2	14 36 40	10°54'39	4°11	15°11	24°42	13° 4	29° 2	16°17	4°39	27°54	21°45	8°34	10°23	24°58	25°48	T 2
W 3	14 40 37	11°53'00	17° 3	15°52	25°26	13°28	29°14	16°15	4°38	27°56	21°44	8°29	10°19	25° 5	25°51	W 3
T 4	14 44 33	12°51'20	29°17	16°36	26°10	13°53	29°25	16°14	4°38	27°58	21°43	8°27	10°16	25°12	25°54	T 4
F 5	14 48 30	13°49'38	11°43	17°24	26°53	14°18	29°36	16°12	4°37	28° 0	21°42	8°D26	10°13	25°19	25°57	F 5
S 6	14 52 26	14°47'54	24°24	18°15	27°35	14°43	29°48	16°11	4°37	28° 3	21°41	8°27	10°10	25°25	25°59	S 6
S 7	14 56 23	15°46'08	7°23	19° 9	28°16	15° 8	29°59	16°10	4°37	28° 5	21°41	8°28	10° 7	25°32	26° 2	S 7
M 8	15 0 20	16°44'19	20°44	20° 7	28°56	15°34	0°51	16° 9	4°36	28° 7	21°40	8°R28	10° 4	25°39	26° 5	M 8
T 9	15 4 16	17°42'29	4°31	21° 7	29°34	16° 0	0°23	16° 7	4°36	28° 9	21°39	8°27	10° 0	25°46	26° 7	T 9
W10	15 8 13	18°40'37	18°43	22°10	0°51	16°26	0°35	16° 6	4°36	28°11	21°38	8°24	9°57	25°52	26°10	W10
T 11	15 12 9	19°38'42	3°20	23°17	0°47	16°52	0°46	16° 6	4°36	28°14	21°38	8°19	9°54	25°59	26°12	T 11
F 12	15 16 6	20°36'46	18°16	24°25	1°22	17°19	0°58	16° 5	4°36	28°16	21°37	8°12	9°51	26° 6	26°15	F 12
S 13	15 20 2	21°34'48	3°25	25°37	1°56	17°45	1°10	16° 4	4°D36	28°18	21°36	8° 5	9°48	26°12	26°17	S 13
S 14	15 23 59	22°32'48	18°36	26°51	2°28	18°12	1°22	16° 4	4°36	28°20	21°36	7°59	9°44	26°19	26°20	S 14
M15	15 27 55	23°30'47	3°39	28° 7	2°58	18°39	1°34	16° 3	4°36	28°23	21°35	7°53	9°41	26°26	26°22	M15
T 16	15 31 52	24°28'44	18°26	29°26	3°27	19° 7	1°47	16° 3	4°36	28°25	21°35	7°50	9°38	26°33	26°25	T 16
W17	15 35 49	25°26'40	2°34	0°47	3°54	19°34	1°59	16° 2	4°36	28°27	21°34	7°D48	9°35	26°39	26°27	W17
T 18	15 39 45	26°24'35	16°44	2°10	4°20	20° 2	2°11	16° 2	4°36	28°29	21°34	7°49	9°32	26°46	26°29	T 18
F 19	15 43 42	27°22'28	0°12	3°36	4°44	20°30	2°23	16°D 2	4°37	28°32	21°33	7°50	9°29	26°53	26°31	F 19
S 20	15 47 38	28°20'20	13°13	5° 4	5° 7	20°58	2°36	16° 2	4°37	28°34	21°33	7°51	9°25	26°59	26°33	S 20
S 21	15 51 35	29°18'11	25°53	6°34	5°27	21°26	2°48	16° 2	4°37	28°36	21°32	7°R52	9°22	27° 6	26°36	S 21
M22	15 55 31	0°16'00	8°14	8° 7	5°46	21°55	3° 1	16° 3	4°38	28°38	21°32	7°52	9°19	27°13	26°38	M22
T 23	15 59 28	1°13'49	20°21	9°42	6° 3	22°23	3°13	16° 3	4°38	28°41	21°32	7°50	9°16	27°20	26°40	T 23
W24	16 3 24	2°11'36	2°19	11°18	6°18	22°52	3°26	16° 4	4°39	28°43	21°31	7°47	9°13	27°26	26°42	W24
T 25	16 7 21	3° 9'22	14°11	12°58	6°31	23°21	3°39	16° 4	4°40	28°45	21°31	7°42	9°10	27°33	26°44	T 25
F 26	16 11 18	4° 7'07	26° 2	14°39	6°41	23°50	3°51	16° 5	4°40	28°47	21°31	7°36	9° 6	27°40	26°46	F 26
S 27	16 15 14	5° 4'51	7°55	16°22	6°50	24°19	4° 4	16° 6	4°41	28°50	21°30	7°30	9° 3	27°46	26°47	S 27
S 28	16 19 11	6° 2'33	19°51	18° 8	6°57	24°49	4°17	16° 6	4°42	28°52	21°30	7°25	9° 0	27°53	26°49	S 28
M29	16 23 7	7° 0'15	1°53	19°56	7° 1	25°18	4°30	16° 7	4°43	28°54	21°30	7°20	8°57	28° 0	26°51	M29
T 30	16 27 4	7°57'55	14° 2	21°46	7°R 3	25°48	4°43	16° 9	4°44	28°56	21°30	7°17	8°54	28° 7	26°53	T 30
W31	16 31 0	8°15'34	26°20	23°38	7°52	26°18	4°56	16°10	4°45	28°59	21°30	7°15	8°50	28°Y13	26°K54	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	14n47	22n 0	3n38	3n35	2s20	27n26	4n10	19n 1	2n 7	23n18	0s 6	7n25	2n12	10n32	0n47	18n 4
T 2	15 5	23 52	2 49	3 42	2 28	27 29	4 11	18 53	2 5	23 18	0 6	7 26	2 12	10 32	0 47	18 4
W 3	15 23	24 38	1 52	3 51	2 35	27 32	4 12	18 44	2 4	23 18	0 6	7 26	2 12	10 32	0 47	18 5
T 4	15 41	24 14	0 49	4 2	2 41	27 34	4 12	18 36	2 2	23 18	0 6	7 27	2 11	10 32	0 47	18 5
F 5	15 58	22 36	0s18	4 15	2 47	27 35	4 13	18 27	2 1	23 19	0 6	7 27	2 11	10 32	0 47	18 6
S 6	16 15	19 50	1 25	4 30	2 52	27 36	4 13	18 18	2 0	23 19	0 6	7 28	2 11	10 32	0 47	18 6
S 7	16 32	16 0	2 29	4 47	2 56	27 37	4 13	18 10	1 58	23 19	0 6	7 28	2 11	10 32	0 47	18 7
M 8	16 49	11 17	3 27	5 5	2 59	27 37	4 13	18 1	1 57	23 19	0 6	7 28	2 11	10 32	0 47	18 7
T 9	17 6	5 53	4 15	5 25	3 2	27 37	4 12	17 52	1 56	23 19	0 6	7 29	2 11	10 32	0 47	18 8
W10	17 22	0 1	4 50	5 47	3 4	27 36	4 12	17 43	1 54	23 19	0 5	7 29	2 11	10 32	0 47	18 8
T 11	17 38	6s 0	5 6	6 10	3 5	27 35	4 11	17 33	1 53	23 19	0 5	7 29	2 10	10 32	0 47	18 9
F 12	17 53	11 49	5 3	6 34	3 6	27 34	4 10	17 24	1 52	23 19	0 5	7 29	2 10	10 32	0 47	18 9
S 13	18 8	17 0	4 38	7 0	3 6	27 32	4 8	17 14	1 50	23 19	0 5	7 29	2 10	10 32	0 47	18 10
S 14	18 23	21 5	3 54	7 27	3 5	27 30	4 6	17 5	1 49	23 19	0 5	7 29	2 10	10 32	0 47	18 10
M15	18 38	23 42	2 54	7 55	3 4	27 27	4 4	16 55	1 48	23 19	0 5	7 29	2 10	10 32	0 47	18 11
T 16	18 52	24 37	1 43	8 25	3 2	27 24	4 2	16 46	1 46	23 19	0 5	7 29	2 10	10 32	0 47	18 11
W17	19 6	23 50	0 27	8 55	3 0	27 21	4 0	16 36	1 45	23 19	0 5	7 29	2 9	10 32	0 47	18 12
T 18	19 20	21 34	0n48	9 27	2 57	27 17	3 57	16 26	1 44	23 19	0 5	7 29	2 9	10 32	0 47	18 12
F 19	19 33	18 9	1 58	9 59	2 53	27 13	3 53	16 16	1 43	23 19	0 4	7 29	2 9	10 32	0 47	18 13
S 20	19 46	13 57	3 0	10 33	2 49	27 8	3 50	16 6	1 41	23 19	0 4	7 29	2 9	10 32	0 47	18 13
S 21	19 59	9 15	3 51	11 7	2 44	27 3	3 46	15 55	1 40	23 19	0 4	7 29	2 9	10 31	0 46	18 14
M22	20 11	4 17	4 30	11 41	2 39	26 58	3 41	15 45	1 39	23 18	0 4	7 28	2 9	10 31	0 46	18 14
T 23	20 23	0n44	4 57	12 17	2 33	26 53	3 37	15 34	1 38	23 18	0 4	7 28	2 8	10 31	0 46	18 15
W24	20 35	5 39	5 9	12 53	2 27	26 47	3 32	15 24	1 36	23 18	0 4	7 28	2 8	10 31	0 46	18 15
T 25	20 46	10 20	5 9	13 29	2 20	26 41	3 26	15 13	1 35	23 18	0 4	7 27	2 8	10 31	0 46	18 16
F 26	20 57	14 37	4 55	14 6	2 13	26 34	3 20	15 2	1 34	23 18	0 4	7 27	2 8	10 30	0 46	18 16
S 27	21 7	18 22	4 29	14 43	2 5	26 28	3 14	14 52	1 33	23 17	0 4	7 26	2 8	10 30	0 46	18 16
S 28	21 17	21 22	3 50	15 21	1 57	26 21	3 7	14 41	1 32	23 17	0 4	7 26	2 8	10 30	0 46	18 17
M29	21 27	23 28	3 1	15 58	1 48	26 13	3 0	14 30	1 31	23 17	0 3	7 25	2 7	10 29	0 46	18 17
T 30	21 37	24 30	2 4	16 36	1 39	26 5	2 52	14 18	1 30	23 16	0 3	7 25	2 7	10 29	0 46	18 18
W31	21n46	24n21	0n59	17n13	1s30	25n57	2n44	14n 7	1n28	23n16	0s 3	7n24	2n 7	10n29	0n46	18n18

Julian Day Number = 2530191.5, Delta T = 178.75 sec

Ecliptic obliquity = 23°24'42", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°44'58", Lahiri = 26°51'59"

ASTRODIENST EPHEMERIS for the year 2215
geocentric

JUNE 2215

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 34 57	9♂53'12	8♂48	25♂32	6♂R59	26♂48	5♂ 9	16♂11	4♂46	29♂ 1	21♂R30	7♂D14	8♂47	28♂20	26♂56	T 1
F 2	16 38 53	10°50'48	21°28	27°29	6♂54	27°18	5°22	16°12	4°47	29° 3	21°D30	7♂15	8°44	28°27	26°58	F 2
S 3	16 42 50	11°48'24	4♂22	29°27	6°47	27°49	5°35	16°14	4°48	29° 5	21♂30	7°16	8°41	28°33	26°59	S 3
S 4	16 46 47	12°45'57	17°31	1♂28	6°37	28°19	5°48	16°16	4°49	29° 8	21°30	7°18	8°38	28°40	27° 0	S 4
M 5	16 50 43	13°43'30	0♂57	3°30	6°24	28°50	6° 1	16°17	4°50	29°10	21°30	7°19	8°35	28°47	27° 2	M 5
T 6	16 54 40	14°41'01	14°52	5°34	6° 9	29°21	6°14	16°19	4°51	29°12	21°30	7°R20	8°31	28°54	27° 3	T 6
W 7	16 58 36	15°38'30	28°46	7°40	5°52	29°52	6°27	16°21	4°53	29°14	21°30	7°19	8°28	29° 0	27° 5	W 7
T 8	17 2 33	16°35'59	13♂ 7	9°48	5°32	0♂23	6°40	16°23	4°54	29°16	21°30	7°18	8°25	29° 7	27° 6	T 8
F 9	17 6 29	17°33'26	27°44	11°56	5°10	0°54	6°54	16°25	4°55	29°18	21°30	7°16	8°22	29°14	27° 7	F 9
S 10	17 10 26	18°30'52	12♂30	14° 6	4°46	1°25	7° 7	16°27	4°57	29°21	21°31	7°13	8°19	29°20	27° 8	S 10
S 11	17 14 22	19°28'17	27°19	16°17	4°20	1°57	7°20	16°30	4°58	29°23	21°31	7°11	8°16	29°27	27° 9	S 11
M12	17 18 19	20°25'41	12♂ 4	18°29	3°52	2°28	7°33	16°32	5° 0	29°25	21°31	7° 9	8°12	29°34	27°10	M12
T 13	17 22 16	21°23'04	26°37	20°41	3°22	3° 0	7°47	16°34	5° 1	29°27	21°32	7° 8	8° 9	29°41	27°11	T 13
W14	17 26 12	22°20'26	10♂53	22°53	2°50	3°32	8° 0	16°37	5° 3	29°29	21°32	7°D 8	8° 6	29°47	27°12	W14
T 15	17 30 9	23°17'48	24°46	25° 5	2°17	4° 4	8°14	16°40	5° 5	29°31	21°32	7° 9	8° 3	29°54	27°13	T 15
F 16	17 34 5	24°15'08	8♂16	27°16	1°43	4°36	8°27	16°42	5° 6	29°33	21°33	7° 9	8° 0	0♂ 1	27°14	F 16
S 17	17 38 2	25°12'29	21°21	29°27	1° 7	5° 8	8°40	16°45	5° 8	29°35	21°33	7°11	7°56	0° 7	27°15	S 17
S 18	17 41 58	26° 9'49	4♂ 5	1♂37	0°31	5°40	8°54	16°48	5°10	29°37	21°34	7°11	7°53	0°14	27°16	S 18
M19	17 45 55	27° 7'08	16°30	3°46	29♂54	6°13	9° 7	16°51	5°12	29°40	21°34	7°12	7°50	0°21	27°16	M19
T 20	17 49 51	28° 4'27	28°39	5°54	29°16	6°45	9°21	16°54	5°14	29°42	21°35	7°R12	7°47	0°28	27°17	T 20
W21	17 53 48	29° 1'46	10♂39	8° 0	28°39	7°18	9°34	16°58	5°16	29°44	21°35	7°12	7°44	0°34	27°17	W21
T 22	17 57 45	29°59'04	22°32	10° 4	28° 1	7°51	9°48	17° 1	5°18	29°46	21°36	7°12	7°41	0°41	27°18	T 22
F 23	18 1 41	0♂56'22	4♂24	12° 7	27°24	8°23	10° 1	17° 4	5°20	29°48	21°36	7°11	7°37	0°48	27°18	F 23
S 24	18 5 38	1°53'40	16°18	14° 8	26°47	8°56	10°15	17° 8	5°22	29°50	21°37	7°10	7°34	0°54	27°19	S 24
S 25	18 9 34	2°50'57	28°19	16° 6	26°12	9°29	10°29	17°12	5°24	29°52	21°38	7° 9	7°31	1° 1	27°19	S 25
M26	18 13 31	3°48'14	10♂28	18° 3	25°37	10° 3	10°42	17°15	5°26	29°53	21°39	7° 9	7°28	1° 8	27°19	M26
T 27	18 17 27	4°45'31	22°48	19°57	25° 3	10°36	10°56	17°19	5°29	29°55	21°39	7° 9	7°25	1°15	27°20	T 27
W28	18 21 24	5°42'48	5♂21	21°50	24°31	11° 9	11° 9	17°23	5°31	29°57	21°40	7°D 9	7°22	1°21	27°20	W28
T 29	18 25 20	6°40'04	18° 8	23°40	24° 0	11°43	11°23	17°27	5°33	29°59	21°41	7° 9	7°18	1°28	27°20	T 29
F 30	18 29 17	7♂37'20	1♂ 9	25♂28	23♂31	12♂16	11♂37	17♂31	5♂36	0♂ 1	21♂42	7°R 9	7♂15	1♂35	27♂20	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	21n54	22n59	0s 9	17n50	1s20	25n49	2n35	13n56	1n27	23n16	0s 3	7n24	2n 7	10n28	0n46	18n19	1s38	17n10	15n 4	23s13	23s 7	15n24	2n39	4n13	
F 2	22 3	20 26	1 17	18 26	1 10	25 40	2 26	13 44	1 26	23 15	0 3	7 23	2 7	10 28	0 46	18 19	1 38	17 10	15 3	23 13	23 7	15 26	2 39	4 13	
S 3	22 11	16 49	2 23	19 2	1 0	25 31	2 17	13 33	1 25	23 15	0 3	7 22	2 6	10 27	0 46	18 20	1 38	17 9	15 3	23 13	23 8	15 28	2 40	4 13	
S 4	22 18	12 20	3 23	19 38	0 49	25 22	2 7	13 21	1 24	23 14	0 3	7 21	2 6	10 27	0 46	18 20	1 38	17 9	15 2	23 13	23 8	15 30	2 41	4 13	
M 5	22 25	7 10	4 14	20 12	0 38	25 12	1 57	13 10	1 23	23 14	0 3	7 20	2 6	10 26	0 46	18 21	1 38	17 9	15 2	23 13	23 8	15 32	2 42	4 13	
T 6	22 32	1 33	4 51	20 45	0 28	25 2	1 46	12 58	1 22	23 13	0 3	7 20	2 6	10 26	0 46	18 21	1 38	17 8	15 2	23 13	23 8	15 34	2 42	4 13	
W 7	22 38	4s16	5 11	21 17	0 17	24 51	1 34	12 46	1 21	23 13	0 3	7 19	2 6	10 25	0 46	18 22	1 38	17 8	15 1	23 13	23 8	15 37	2 43	4 14	
T 8	22 44	9 59	5 13	21 47	0 6	24 40	1 23	12 34	1 20	23 12	0 2	7 18	2 6	10 25	0 46	18 22	1 38	17 7	15 1	23 13	23 9	15 39	2 44	4 14	
F 9	22 50	15 14	4 55	22 16	0n 5	24 29	1 11	12 22	1 19	23 12	0 2	7 17	2 5	10 24	0 46	18 23	1 38	17 7	15 0	23 13	23 9	15 41	2 44	4 14	
S 10	22 55	19 39	4 17	22 43	0 15	24 18	0 58	12 10	1 17	23 11	0 2	7 16	2 5	10 24	0 46	18 23	1 38	17 6	15 0	23 13	23 9	15 43	2 45	4 14	
S 11	23 0	22 49	3 22	23 8	0 25	24 6	0 45	11 58	1 16	23 10	0 2	7 15	2 5	10 23	0 46	18 23	1 38	17 6	14 59	23 13	23 9	15 45	2 46	4 14	
M12	23 4	24 26	2 14	23 30	0 36	23 53	0 32	11 45	1 15	23 10	0 2	7 14	2 5	10 23	0 46	18 24	1 39	17 5	14 59	23 13	23 9	15 47	2 46	4 14	
T 13	23 8	24 20	0 58	23 50	0 45	23 41	0 18	11 33	1 14	23 9	0 2	7 13	2 5	10 22	0 46	18 24	1 39	17 5	14 59	23 13	23 10	15 49	2 47	4 15	
W14	23 11	22 37	0n21	24 8	0 55	23 28	0 5	11 20	1 13	23 8	0 2	7 11	2 5	10 21	0 46	18 25	1 39	17 4	14 58	23 13	23 10	15 51	2 47	4 15	
T 15	23 15	19 34	1 36	24 23	1 3	23 14	0s 9	11 8	1 12	23 8	0 2	7 10	2 4	10 21	0 45	18 25	1 39	17 4	14 58	23 13	23 10	15 53	2 48	4 15	
F 16	23 17	15 32	2 44	24 35	1 12	23 1	0 23	10 55	1 11	23 7	0 2	7 9	2 4	10 20	0 45	18 26	1 39	17 3	14 57	23 13	23 10	15 56	2 48	4 15	
S 17	23 19	10 53	3 41	24 44	1 19	22 47	0 37	10 43	1 10	23 6	0 2	7 8	2 4	10 19	0 45	18 26	1 39	17 3	14 57	23 13	23 10	15 58	2 49	4 15	
S 18	23 21	5 53	4 25	24 50	1 26	22 33	0 52	10 30	1 9	23 5	0 1	7 6	2 4	10 19	0 45	18 26	1 39	17 2	14 57	23 13	23 11	16 0	2 49	4 15	
M19	23 23	0 46	4 56	24 54	1 33	22 19	1 6	10 17	1 8	23 5	0 1	7 5	2 4	10 18	0 45	18 27	1 39	17 2	14 56	23 13	23 11	16 2	2 50	4 16	
T 20	23 24	4n15	5 13	24 55	1 38	22 5	1 20	10 4	1 7	23 4	0 1	7 4	2 4	10 17	0 45	18 27	1 39	17 1	14 56	23 13	23 11	16 4	2 50	4 16	
W21	23 24	9 3	5 16	24 53	1 43	21 50	1 34	9 51	1 6	23 3	0 1	7 2	2 3	10 16	0 45	18 28	1 39	17 0	14 55	23 13	23 11	16 6	2 50	4 16	
T 22	23 25	13 29	5 5	24 49	1 47	21 36	1 48	9 38	1 5	23 2	0 1	7 1	2 3	10 16	0 45	18 28	1 39	17 0	14 55	23 13	23 11	16 8	2 51	4 16	
F 23	23 24	17 23	4 42	24 42	1 51	21 22	2 1	9 25	1 4	23 1	0 1	6 59	2 3	10 15	0 45	18 28	1 39	16 59	14 55	23 13	23 12	16 10	2 51	4 16	
S 24	23 24	20 37	4 6	24 33	1 53	21 8	2 15	9 11	1 3	23 0	0 1	6 58	2 3	10 14	0 45	18 29	1 39	16 59	14 54	23 13	23 12	16 12	2 51	4 17	
S 25	23 23	23 0	3 19	24 21	1 55	20 54	2 28	8 58	1 3	22 59	0 1	6 56	2 3	10 13	0 45	18 29	1 39	16 58	14 54	23 13	23 12	16 14	2 52	4 17	
M26	23 21	24 21	2 23	24 7	1 57	20 40	2 40	8 45	1 2	22 58	0 1	6 55	2 3	10 12	0 45	18 30	1 39	16 57	14 53	23 13	23 12	16 16	2 52	4 17	
T 27	23 20	24 32	1 19	23 51	1 57	20 27	2 52	8 31	1 1	22 57	0 1	6 53	2 3	10 11	0 45	18 30	1 39	16 57	14 53	23 13	23 12	16 18	2 52	4 17	
W28	23 17	23 28	0 10	23 34	1 57	20 14	3 4	8 18	1 0	22 56	0 1	6 51	2 2	10 11	0 45	18 30	1 39	16 56	14 53	23 13	23 12	16 20	2 53	4 17	
T 29	23 15	21 11	1s 1	23 14	1 56	20 2	3 15	8 4	0 59	22 55	0 0	6 50	2 2	10 10	0 45	18 31	1 39	16 55	14 52	23 13	23 13	16 22	2 53	4 17	
F 30	23n12	17n47	2s 9	22n53	1n54	19n50	3s26	7n50	0n58	22n54	0s 0	6n48	2n 2	10n 9	0n45	18n31	1s39	16n55	14n52	23s13	23s13	16n24	2n53	4n18	

ASTRODIENST EPHEMERIS for the year 2215

geocentric

JULY 2215

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 33 14	8°34'35	14°24	27°14	23°R 4	12°50	11°50	17°35	5°38	0°II 3	21°43	7°R 9	7°12	1°841	27°R20	S 1
S 2	18 37 10	9°31'50	27°53	28°57	22°II39	13°24	12° 4	17°39	5°40	0° 5	21°43	7° 8	7° 9	1°48	27°R20	S 2
M 3	18 41 7	10°29'04	11°35	0°38	22°16	13°58	12°17	17°43	5°43	0° 7	21°44	7° 8	7° 6	1°55	27°20	M 3
T 4	18 45 3	11°26'18	25°28	2°18	21°55	14°32	12°31	17°48	5°45	0° 8	21°45	7° 8	7° 2	2° 2	27°20	T 4
W 5	18 49 0	12°23'32	9°32	3°54	21°36	15° 6	12°45	17°52	5°48	0°10	21°46	7°D 8	6°59	2° 8	27°20	W 5
T 6	18 52 56	13°20'45	23°45	5°29	21°20	15°40	12°58	17°57	5°51	0°12	21°47	7° 8	6°56	2°15	27°19	T 6
F 7	18 56 53	14°17'57	8°5	7° 1	21° 6	16°14	13°12	18° 1	5°53	0°14	21°48	7° 8	6°53	2°22	27°19	F 7
S 8	19 0 49	15°15'10	22°28	8°31	20°54	16°49	13°25	18° 6	5°56	0°15	21°49	7° 9	6°50	2°28	27°19	S 8
S 9	19 4 46	16°12'22	6°51	9°59	20°45	17°23	13°39	18°10	5°59	0°17	21°51	7°10	6°47	2°35	27°18	S 9
M10	19 8 43	17° 9'33	21° 9	11°24	20°38	17°58	13°53	18°15	6° 1	0°19	21°52	7°10	6°43	2°42	27°18	M10
T 11	19 12 39	18° 6'45	5°19	12°47	20°34	18°32	14° 6	18°20	6° 4	0°21	21°53	7°R10	6°40	2°49	27°17	T 11
W12	19 16 36	19° 3'57	19°15	14° 8	20°D32	19° 7	14°20	18°25	6° 7	0°22	21°54	7°10	6°37	2°55	27°17	W12
T 13	19 20 32	20° 1'09	2°55	15°26	20°32	19°42	14°33	18°30	6°10	0°24	21°55	7° 9	6°34	3° 2	27°16	T 13
F 14	19 24 29	20°58'21	16°17	16°42	20°35	20°17	14°47	18°35	6°13	0°25	21°56	7° 8	6°31	3° 9	27°15	F 14
S 15	19 28 25	21°55'33	29°19	17°55	20°40	20°52	15° 1	18°40	6°16	0°27	21°58	7° 6	6°28	3°15	27°15	S 15
S 16	19 32 22	22°52'45	12°5	19° 5	20°47	21°27	15°14	18°45	6°19	0°28	21°59	7° 4	6°24	3°22	27°14	S 16
M17	19 36 19	23°49'58	24°28	20°13	20°56	22° 2	15°28	18°51	6°22	0°30	22° 0	7° 2	6°21	3°29	27°13	M17
T 18	19 40 15	24°47'11	6°39	21°19	21° 7	22°37	15°41	18°56	6°25	0°31	22° 2	7° 0	6°18	3°35	27°12	T 18
W19	19 44 12	25°44'25	18°39	22°21	21°21	23°12	15°55	19° 2	6°28	0°33	22° 3	6°59	6°15	3°42	27°11	W19
T 20	19 48 8	26°41'39	0°33	23°20	21°36	23°48	16° 8	19° 7	6°31	0°34	22° 4	6°D59	6°12	3°49	27°10	T 20
F 21	19 52 5	27°38'55	12°26	24°17	21°53	24°23	16°22	19°13	6°34	0°36	22° 6	7° 0	6° 8	3°56	27° 9	F 21
S 22	19 56 1	28°36'10	24°21	25°10	22°12	24°59	16°35	19°18	6°37	0°37	22° 7	7° 1	6° 5	4° 2	27° 8	S 22
S 23	19 59 58	29°33'27	6°II24	26° 0	22°33	25°34	16°48	19°24	6°40	0°39	22° 9	7° 3	6° 2	4° 9	27° 7	S 23
M24	20 3 54	0°30'44	18°38	26°46	22°56	26°10	17° 2	19°30	6°43	0°40	22°10	7° 4	5°59	4°16	27° 6	M24
T 25	20 7 51	1°28'01	1°5	27°29	23°20	26°46	17°15	19°35	6°46	0°41	22°12	7°R 5	5°56	4°22	27° 5	T 25
W26	20 11 48	2°25'20	13°55	28° 9	23°46	27°22	17°29	19°41	6°50	0°42	22°13	7° 5	5°53	4°29	27° 3	W26
T 27	20 15 44	3°22'39	27° 1	28°44	24°14	27°58	17°42	19°47	6°53	0°44	22°15	7° 4	5°49	4°36	27° 2	T 27
F 28	20 19 41	4°19'58	10°25	29°16	24°43	28°34	17°55	19°53	6°56	0°45	22°16	7° 1	5°46	4°43	27° 1	F 28
S 29	20 23 37	5°17'18	24° 6	29°43	25°14	29°10	18° 8	19°59	7° 0	0°46	22°18	6°58	5°43	4°49	26°59	S 29
S 30	20 27 34	6°14'39	8°1	0°6	25°45	29°46	18°22	20° 5	7° 3	0°47	22°20	6°54	5°40	4°56	26°58	S 30
M31	20 31 30	7°12'00	22°6	0°24	26°II19	0°23	18°35	20°11	7°6	0°II48	22°21	6°54	5°37	5°8	26°56	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	23n 8	13n25	3s12	22n31	1n52	19n38	3s36	7n37	0n57	22n53	0s 0	6n46	2n 2	10n 8	0n45	18n31
S 2	23 4	8 21	4 6	22 7	1 49	19 27	3 46	7 23	0 56	22 52	0 0	6 45	2 2	10 7	0 45	18 32
M 3	23 0	2 48	4 46	21 42	1 45	19 17	3 55	7 9	0 55	22 51	0 0	6 43	2 2	10 6	0 45	18 32
T 4	22 55	2s57	5 10	21 16	1 41	19 7	4 3	6 55	0 54	22 49	0n 0	6 41	2 2	10 5	0 45	18 33
W 5	22 50	8 37	5 17	20 48	1 36	18 58	4 11	6 41	0 53	22 48	0 0	6 39	2 1	10 4	0 45	18 33
T 6	22 45	13 55	5 4	20 20	1 30	18 50	4 19	6 27	0 52	22 47	0 0	6 37	2 1	10 3	0 45	18 33
F 7	22 39	18 28	4 32	19 51	1 24	18 42	4 25	6 13	0 51	22 46	0 0	6 35	2 1	10 2	0 45	18 34
S 8	22 32	21 57	3 43	19 22	1 18	18 35	4 32	5 59	0 51	22 45	0 0	6 33	2 1	10 1	0 45	18 34
S 9	22 26	24 4	2 40	18 52	1 11	18 29	4 37	5 44	0 50	22 43	0 1	6 31	2 1	10 0	0 45	18 34
M10	22 19	24 34	1 28	18 21	1 3	18 23	4 43	5 30	0 49	22 42	0 1	6 29	2 1	9 59	0 45	18 34
T 11	22 11	23 29	0 10	17 50	0 55	18 18	4 47	5 16	0 48	22 41	0 1	6 27	2 1	9 58	0 45	18 35
W12	22 3	20 56	1n 6	17 19	0 46	18 14	4 52	5 1	0 47	22 39	0 1	6 25	2 0	9 57	0 45	18 35
T 13	21 55	17 15	2 18	16 47	0 37	18 10	4 55	4 47	0 46	22 38	0 1	6 23	2 0	9 56	0 45	18 35
F 14	21 47	12 46	3 20	16 16	0 28	18 7	4 58	4 32	0 45	22 37	0 1	6 21	2 0	9 55	0 45	18 36
S 15	21 38	7 48	4 10	15 44	0 18	18 4	5 1	4 18	0 44	22 35	0 1	6 19	2 0	9 54	0 44	18 36
S 16	21 28	2 38	4 46	15 12	0 8	18 2	5 4	4 3	0 44	22 34	0 1	6 17	2 0	9 53	0 44	18 36
M17	21 19	2n31	5 8	14 41	0s 3	18 1	5 6	3 49	0 43	22 32	0 1	6 15	2 0	9 51	0 44	18 37
T 18	21 9	7 28	5 15	14 10	0 14	18 0	5 7	3 34	0 42	22 31	0 1	6 13	2 0	9 50	0 44	18 37
W19	20 58	12 4	5 9	13 39	0 25	18 0	5 8	3 19	0 41	22 29	0 1	6 10	2 0	9 49	0 44	18 37
T 20	20 48	16 10	4 49	13 8	0 37	18 0	5 9	3 5	0 40	22 28	0 2	6 8	1 59	9 48	0 44	18 37
F 21	20 36	19 38	4 17	12 38	0 49	18 0	5 10	2 50	0 39	22 26	0 2	6 6	1 59	9 47	0 44	18 38
S 22	20 25	22 18	3 34	12 9	1 2	18 1	5 10	2 35	0 39	22 25	0 2	6 4	1 59	9 46	0 44	18 38
S 23	20 13	24 0	2 41	11 41	1 14	18 3	5 10	2 20	0 38	22 23	0 2	6 1	1 59	9 44	0 44	18 38
M24	20 1	24 35	1 40	11 13	1 27	18 4	5 10	2 5	0 37	22 22	0 2	5 59	1 59	9 43	0 44	18 38
T 25	19 49	23 57	0 33	10 46	1 40	18 6	5 9	1 50	0 36	22 20	0 2	5 56	1 59	9 42	0 44	18 39
W26	19 36	22 4	0s37	10 20	1 53	18 8	5 8	1 35	0 35	22 18	0 2	5 54	1 59	9 41	0 44	18 39
T 27	19 23	18 59	1 47	9 56	2 6	18 11	5 7	1 20	0 34	22 17	0 2	5 52	1 59	9 40	0 44	18 39
F 28	19 9	14 50	2 53	9 32	2 19	18 13	5 5	1 5	0 34	22 15	0 2	5 49	1 59	9 38	0 44	18 39
S 29	18 55	9 52	3 49	9 10	2 33	18 16	5 4	0 50	0 33	22 13	0 2	5 47	1 59	9 37	0 44	18 39
S 30	18 41	4 19	4 34	8 50	2 46	18 19	5 2	0 35	0 32	22 12	0 3	5 44	1 58	9 36	0 44	18 40
M31	18n27	1s30	5s 2	8n31	2s59	18n22	5s 0	0n20	0n31	22n10	0n 3	5n42	1n58	9n35	0n44	18n40

Julian Day Number = 2530252.5, Delta T = 178.93 sec
 Ecliptic obliquity = 23°24'41, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°45'07, Lahiri = 26°52'07

ASTRODIENST EPHEMERIS for the year 2215
geocentric

AUGUST 2215

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 35 27	8♌ 9'21	6♊ 19	0♉ 38	26♊ 53	0♊ 59	18♊ 48	20♉ 17	7♉ 10	0♉ 50	22♉ 23	6♉ 46	5♉ 34	5♉ 9	26♉ 55	T 1
W 2	20 39 23	9° 6'43	20° 34	0° 47	27° 29	1° 36	19° 1	20° 24	7° 13	0° 51	22° 24	6♉ 43	5° 30	5° 16	26♉ 53	W 2
T 3	20 43 20	10° 4'05	4♉ 49	0♉ 51	28° 6	2° 12	19° 14	20° 30	7° 17	0° 52	22° 26	6♉ 42	5° 27	5° 23	26° 51	T 3
F 4	20 47 17	11° 1'28	19° 0	0° 50	28° 44	2° 49	19° 27	20° 36	7° 20	0° 53	22° 28	6° 42	5° 24	5° 29	26° 50	F 4
S 5	20 51 13	11° 58'52	3♉ 7	0° 43	29° 23	3° 26	19° 41	20° 43	7° 23	0° 54	22° 30	6° 43	5° 21	5° 36	26° 48	S 5
S 6	20 55 10	12° 56'16	17° 7	0° 32	0♉ 4	4° 2	19° 54	20° 49	7° 27	0° 55	22° 31	6° 44	5° 18	5° 43	26° 46	S 6
M 7	20 59 6	13° 53'40	0♉ 59	0° 15	0° 45	4° 39	20° 7	20° 56	7° 30	0° 56	22° 33	6♉ 45	5° 14	5° 50	26° 44	M 7
T 8	21 3 3	14° 51'06	14° 42	29♌ 53	1° 27	5° 16	20° 19	21° 2	7° 34	0° 57	22° 35	6° 45	5° 11	5° 56	26° 42	T 8
W 9	21 6 59	15° 48'32	28° 14	29° 27	2° 11	5° 53	20° 32	21° 9	7° 38	0° 57	22° 37	6° 43	5° 8	6° 3	26° 40	W 9
T 10	21 10 56	16° 45'59	11♌ 34	28° 55	2° 55	6° 30	20° 45	21° 15	7° 41	0° 58	22° 39	6° 40	5° 5	6° 10	26° 38	T 10
F 11	21 14 52	17° 43'26	24° 40	28° 20	3° 40	7° 7	20° 58	21° 22	7° 45	0° 59	22° 40	6° 34	5° 2	6° 16	26° 36	F 11
S 12	21 18 49	18° 40'55	7♉ 30	27° 40	4° 26	7° 45	21° 11	21° 29	7° 48	1° 0	22° 42	6° 27	4° 59	6° 23	26° 34	S 12
S 13	21 22 46	19° 38'25	20° 6	26° 57	5° 13	8° 22	21° 24	21° 35	7° 52	1° 1	22° 44	6° 20	4° 55	6° 30	26° 32	S 13
M14	21 26 42	20° 35'56	2♉ 28	26° 12	6° 1	8° 59	21° 36	21° 42	7° 56	1° 1	22° 46	6° 13	4° 52	6° 36	26° 30	M14
T 15	21 30 39	21° 33'28	14° 37	25° 24	6° 49	9° 37	21° 49	21° 49	7° 59	1° 2	22° 48	6° 6	4° 49	6° 43	26° 28	T 15
W16	21 34 35	22° 31'02	26° 36	24° 35	7° 38	10° 14	22° 1	21° 56	8° 3	1° 3	22° 50	6° 1	4° 46	6° 50	26° 26	W16
T 17	21 38 32	23° 28'37	8♉ 29	23° 46	8° 28	10° 52	22° 14	22° 3	8° 7	1° 3	22° 52	5° 58	4° 43	6° 57	26° 24	T 17
F 18	21 42 28	24° 26'13	20° 20	22° 58	9° 19	11° 29	22° 26	22° 9	8° 10	1° 4	22° 54	5° 56	4° 40	7° 3	26° 21	F 18
S 19	21 46 25	25° 23'51	2♉ 15	22° 11	10° 10	12° 7	22° 39	22° 16	8° 14	1° 5	22° 56	5° 56	4° 36	7° 10	26° 19	S 19
S 20	21 50 21	26° 21'31	14° 17	21° 26	11° 2	12° 45	22° 51	22° 23	8° 18	1° 5	22° 58	5° 57	4° 33	7° 17	26° 17	S 20
M21	21 54 18	27° 19'12	26° 33	20° 46	11° 54	13° 23	23° 4	22° 30	8° 21	1° 6	23° 0	5° 59	4° 30	7° 23	26° 15	M21
T 22	21 58 15	28° 16'54	9♉ 7	20° 9	12° 48	14° 1	23° 16	22° 38	8° 25	1° 6	23° 2	5° 58	4° 27	7° 30	26° 12	T 22
W23	22 2 11	29° 14'38	22° 2	19° 38	13° 41	14° 39	23° 28	22° 45	8° 29	1° 6	23° 4	5° 58	4° 24	7° 37	26° 10	W23
T 24	22 6 8	0♉ 12'24	5♌ 21	19° 12	14° 36	15° 17	23° 40	22° 52	8° 32	1° 7	23° 6	5° 54	4° 20	7° 44	26° 7	T 24
F 25	22 10 4	1° 10'11	19° 24	18° 53	15° 31	15° 55	23° 52	22° 59	8° 36	1° 7	23° 8	5° 48	4° 17	7° 50	26° 5	F 25
S 26	22 14 1	2° 7'59	3♉ 8	18° 41	16° 26	16° 33	24° 4	23° 6	8° 40	1° 8	23° 10	5° 41	4° 14	7° 57	26° 2	S 26
S 27	22 17 57	3° 5'49	17° 30	18° D36	17° 22	17° 12	24° 16	23° 13	8° 44	1° 8	23° 12	5° 32	4° 11	8° 4	26° 0	S 27
M28	22 21 54	4° 3'40	2♉ 4	18° 39	18° 18	17° 50	24° 28	23° 20	8° 47	1° 8	23° 14	5° 23	4° 8	8° 10	25° 57	M28
T 29	22 25 50	5° 1'32	16° 41	18° 50	19° 15	18° 29	24° 40	23° 28	8° 51	1° 8	23° 16	5° 15	4° 5	8° 17	25° 55	T 29
W30	22 29 47	5° 59'26	1♉ 16	19° 8	20° 12	19° 7	24° 52	23° 35	8° 55	1° 9	23° 18	5° 9	4° 1	8° 24	25° 52	W30
T 31	22 33 44	6♉ 57'21	15♉ 43	19♌ 35	21♉ 10	19♌ 46	25♉ 3	23♉ 42	8♉ 59	1♉ 9	23♉ 20	5♉ 5	3♉ 58	8♉ 30	25♉ 50	T 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	decl lat
T 1	18n12	7s17	5s12	8n14	3s12	18n25	4s57	0n 4	0n30	22n 8	0n 3	5n39	1n58	9n33	0n44	18n40
W 2	17 57	12 42	5 3	7 59	3 25	18 28	4 55	0s11	0 30	22 7	0 3	5 37	1 58	9 32	0 44	18 40
T 3	17 42	17 26	4 36	7 47	3 37	18 32	4 52	0 26	0 29	22 5	0 3	5 34	1 58	9 31	0 44	18 40
F 4	17 27	21 9	3 51	7 36	3 49	18 35	4 49	0 41	0 28	22 3	0 3	5 32	1 58	9 29	0 44	18 40
S 5	17 11	23 35	2 53	7 28	4 0	18 38	4 47	0 57	0 27	22 1	0 3	5 29	1 58	9 28	0 44	18 41
S 6	16 55	24 32	1 45	7 22	4 11	18 41	4 43	1 12	0 26	22 0	0 3	5 27	1 58	9 27	0 44	18 41
M 7	16 38	23 56	0 31	7 18	4 20	18 44	4 40	1 27	0 26	21 58	0 3	5 24	1 58	9 25	0 44	18 41
T 8	16 22	21 53	0n43	7 18	4 29	18 48	4 37	1 43	0 25	21 56	0 3	5 21	1 58	9 24	0 44	18 41
W 9	16 5	18 38	1 54	7 20	4 37	18 51	4 33	1 58	0 24	21 54	0 4	5 19	1 58	9 23	0 44	18 41
T 10	15 48	14 27	2 57	7 24	4 43	18 53	4 29	2 13	0 23	21 52	0 4	5 16	1 58	9 21	0 44	18 41
F 11	15 30	9 40	3 50	7 32	4 48	18 56	4 26	2 29	0 23	21 50	0 4	5 13	1 58	9 20	0 44	18 41
S 12	15 13	4 34	4 30	7 42	4 52	18 59	4 22	2 44	0 22	21 49	0 4	5 11	1 58	9 19	0 44	18 41
S 13	14 55	0n38	4 56	7 55	4 53	19 1	4 18	2 59	0 21	21 47	0 4	5 8	1 57	9 17	0 44	18 42
M14	14 36	5 41	5 8	8 10	4 54	19 3	4 14	3 15	0 20	21 45	0 4	5 5	1 57	9 16	0 44	18 42
T 15	14 18	10 26	5 5	8 27	4 52	19 5	4 9	3 30	0 20	21 43	0 4	5 2	1 57	9 15	0 44	18 42
W16	14 0	14 44	4 49	8 47	4 48	19 7	4 5	3 46	0 19	21 41	0 4	5 0	1 57	9 13	0 44	18 42
T 17	13 41	18 25	4 20	9 8	4 43	19 8	4 1	4 1	0 18	21 39	0 4	4 57	1 57	9 12	0 44	18 42
F 18	13 22	21 21	3 41	9 30	4 36	19 9	3 56	4 16	0 17	21 37	0 4	4 54	1 57	9 11	0 44	18 42
S 19	13 2	23 23	2 52	9 54	4 27	19 10	3 52	4 32	0 17	21 35	0 5	4 51	1 57	9 9	0 44	18 42
S 20	12 43	24 23	1 54	10 18	4 16	19 11	3 47	4 47	0 16	21 33	0 5	4 49	1 57	9 8	0 44	18 42
M21	12 23	24 13	0 51	10 42	4 4	19 11	3 43	5 3	0 15	21 31	0 5	4 46	1 57	9 6	0 44	18 42
T 22	12 3	22 49	0s17	11 7	3 50	19 11	3 38	5 18	0 14	21 29	0 5	4 43	1 57	9 5	0 44	18 42
W23	11 43	20 13	1 25	11 31	3 35	19 10	3 33	5 33	0 14	21 27	0 5	4 40	1 57	9 4	0 44	18 42
T 24	11 23	16 28	2 31	11 54	3 19	19 10	3 28	5 49	0 13	21 25	0 5	4 37	1 57	9 2	0 44	18 42
F 25	11 3	11 46	3 30	12 15	3 2	19 8	3 24	6 4	0 12	21 23	0 5	4 34	1 57	9 1	0 44	18 42
S 26	10 42	6 20	4 17	12 36	2 45	19 7	3 19	6 20	0 11	21 21	0 5	4 32	1 57	8 59	0 44	18 42
S 27	10 21	0 29	4 50	12 54	2 27	19 5	3 14	6 35	0 11	21 19	0 5	4 29	1 57	8 58	0 44	18 42
M28	10 1	5s28	5 4	13 11	2 9	19 3	3 9	6 50	0 10	21 18	0 5	4 26	1 57	8 57	0 44	18 42
T 29	9 39	11 8	4 58	13 25	1 50	19 0	3 4	7 5	0 9	21 16	0 6	4 23	1 57	8 55	0 44	18 42
W30	9 18	16 10	4 34	13 36	1 32	18 57	2 59	7 21	0 9	21 14	0 6	4 20	1 57	8 54	0 44	18 42
T 31	8n57	20s13	3s52	13n45	1s14	18n53	2s54	7s36	0n 8	21n12	0n 6	4n17	1n57	8n52	0n44	18n42

Julian Day Number = 2530283.5, Delta T = 179.02 sec
Ecliptic obliquity = 23°24'41, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°45'11, Lahiri = 26°52'11

ASTRODIENST EPHEMERIS for the year 2215

geocentric

SEPTEMBER 2215

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 37 40	7 ^m 55'17"	29 ^m 57'	20 ^o 09' 9"	22 ^o 28' 8"	20 ^o 24'	25 ^o 15'	23 ^h 49'	9 ^m 2'	1 ^{II} 9'	23 ^h 22'	5 ^o R 3'	3 ^o 55'	8 ^o 37'	25 ^o R47'	F 1
S 2	22 41 37	8 ^o 53'14"	13 ^m 58'	20 ^o 51'	23 ^o 7'	21 ^o 3'	25 ^o 26'	23 ^o 57'	9 ^o 6'	1 ^o 9'	23 ^o 25'	5 ^o D 3'	3 ^o 52'	8 ^o 44'	25 ^o K44'	S 2
S 3	22 45 33	9 ^o 51'13"	27 ^o 45'	21 ^o 41'	24 ^o 6'	21 ^o 42'	25 ^o 38'	24 ^o 4'	9 ^o 10'	1 ^o 9'	23 ^o 27'	5 ^o R 3'	3 ^o 49'	8 ^o 50'	25 ^o 42'	S 3
M 4	22 49 30	10 ^o 49'13"	11 ^m 39'	22 ^o 38'	25 ^o 5'	22 ^o 21'	25 ^o 49'	24 ^o 12'	9 ^o 14'	1 ^o 9'	23 ^o 29'	5 ^o 3'	3 ^o 46'	8 ^o 57'	25 ^o 39'	M 4
T 5	22 53 26	11 ^o 47'14"	24 ^o 40'	23 ^o 42'	26 ^o 5'	23 ^o 0'	26 ^o 0'	24 ^o 19'	9 ^o 18'	1 ^o R 9'	23 ^o 31'	5 ^o 1'	3 ^o 42'	9 ^o 4'	25 ^o 36'	T 5
W 6	22 57 23	12 ^o 45'17"	7 ^m 49'	24 ^o 52'	27 ^o 5'	23 ^o 39'	26 ^o 12'	24 ^o 26'	9 ^o 21'	1 ^o 9'	23 ^o 33'	4 ^o 57'	3 ^o 39'	9 ^o 11'	25 ^o 34'	W 6
T 7	23 1 19	13 ^o 43'21"	20 ^o 47'	26 ^o 9'	28 ^o 6'	24 ^o 18'	26 ^o 23'	24 ^o 34'	9 ^o 25'	1 ^o 9'	23 ^o 35'	4 ^o 51'	3 ^o 36'	9 ^o 17'	25 ^o 31'	T 7
F 8	23 5 16	14 ^o 41'26"	3 ^m 33'	27 ^o 32'	29 ^o 7'	24 ^o 57'	26 ^o 34'	24 ^o 41'	9 ^o 29'	1 ^o 9'	23 ^o 37'	4 ^o 41'	3 ^o 33'	9 ^o 24'	25 ^o 28'	F 8
S 9	23 9 13	15 ^o 39'33"	16 ^o 8'	28 ^o 59'	0 ^o 08' 8"	25 ^o 36'	26 ^o 45'	24 ^o 49'	9 ^o 33'	1 ^o 9'	23 ^o 40'	4 ^o 30'	3 ^o 30'	9 ^o 31'	25 ^o 25'	S 9
S 10	23 13 9	16 ^o 37'42"	28 ^o 33'	0 ^m 32'	1 ^o 10'	26 ^o 16'	26 ^o 56'	24 ^o 56'	9 ^o 36'	1 ^o 9'	23 ^o 42'	4 ^o 17'	3 ^o 26'	9 ^o 37'	25 ^o 23'	S 10
M 11	23 17 6	17 ^o 35'53"	10 ^m 46'	2 ^o 8'	2 ^o 12'	26 ^o 55'	27 ^o 7'	25 ^o 3'	9 ^o 40'	1 ^o 8'	23 ^o 44'	4 ^o 5'	3 ^o 23'	9 ^o 44'	25 ^o 20'	M 11
T 12	23 21 2	18 ^o 34'05"	22 ^o 50'	3 ^o 48'	3 ^o 14'	27 ^o 34'	27 ^o 17'	25 ^o 11'	9 ^o 44'	1 ^o 8'	23 ^o 46'	3 ^o 53'	3 ^o 20'	9 ^o 51'	25 ^o 17'	T 12
W 13	23 24 59	19 ^o 32'20"	4 ^m 45'	5 ^o 32'	4 ^o 16'	28 ^o 14'	27 ^o 28'	25 ^o 18'	9 ^o 48'	1 ^o 8'	23 ^o 48'	3 ^o 44'	3 ^o 17'	9 ^o 57'	25 ^o 14'	W 13
T 14	23 28 55	20 ^o 30'36"	16 ^o 36'	7 ^o 17'	5 ^o 19'	28 ^o 54'	27 ^o 38'	25 ^o 26'	9 ^o 51'	1 ^o 8'	23 ^o 50'	3 ^o 36'	3 ^o 14'	10 ^o 4'	25 ^o 11'	T 14
F 15	23 32 52	21 ^o 28'54"	28 ^o 25'	9 ^o 6'	6 ^o 23'	29 ^o 33'	27 ^o 49'	25 ^o 33'	9 ^o 55'	1 ^o 7'	23 ^o 53'	3 ^o 32'	3 ^o 11'	10 ^o 11'	25 ^o 9'	F 15
S 16	23 36 48	22 ^o 27'15"	10 ^m 17'	10 ^o 55'	7 ^o 26'	0 ^m 13'	27 ^o 59'	25 ^o 41'	9 ^o 59'	1 ^o 7'	23 ^o 55'	3 ^o 30'	3 ^o 7'	10 ^o 18'	25 ^o 6'	S 16
S 17	23 40 45	23 ^o 25'37"	22 ^o 18'	12 ^o 47'	8 ^o 30'	0 ^o 53'	28 ^o 9'	25 ^o 48'	10 ^o 2'	1 ^o 6'	23 ^o 57'	3 ^o D29'	3 ^o 4'	10 ^o 24'	25 ^o 3'	S 17
M 18	23 44 41	24 ^o 24'02"	4 ^m 31'	14 ^o 39'	9 ^o 34'	1 ^o 33'	28 ^o 20'	25 ^o 56'	10 ^o 6'	1 ^o 6'	23 ^o 59'	3 ^o R29'	3 ^o 1'	10 ^o 31'	25 ^o 0'	M 18
T 19	23 48 38	25 ^o 22'29"	17 ^o 4'	16 ^o 32'	10 ^o 38'	2 ^o 13'	28 ^o 30'	26 ^o 3'	10 ^o 10'	1 ^o 6'	24 ^o 1'	3 ^o 29'	2 ^o 58'	10 ^o 38'	24 ^o 57'	T 19
W 20	23 52 35	26 ^o 20'58"	29 ^o 59'	18 ^o 25'	11 ^o 43'	2 ^o 53'	28 ^o 40'	26 ^o 11'	10 ^o 13'	1 ^o 5'	24 ^o 4'	3 ^o 27'	2 ^o 55'	10 ^o 44'	24 ^o 55'	W 20
T 21	23 56 31	27 ^o 19'29"	13 ^m 22'	20 ^o 18'	12 ^o 48'	3 ^o 33'	28 ^o 49'	26 ^o 18'	10 ^o 17'	1 ^o 5'	24 ^o 6'	3 ^o 22'	2 ^o 51'	10 ^o 51'	24 ^o 52'	T 21
F 22	0 0 28	28 ^o 18'02"	27 ^o 13'	22 ^o 11'	13 ^o 53'	4 ^o 13'	28 ^o 59'	26 ^o 26'	10 ^o 21'	1 ^o 4'	24 ^o 8'	3 ^o 15'	2 ^o 48'	10 ^o 58'	24 ^o 49'	F 22
S 23	0 4 24	29 ^o 16'37"	11 ^m 31'	24 ^o 4'	14 ^o 58'	4 ^o 53'	29 ^o 9'	26 ^o 33'	10 ^o 24'	1 ^o 3'	24 ^o 10'	3 ^o 5'	2 ^o 45'	11 ^o 4'	24 ^o 46'	S 23
S 24	0 8 21	0 ^o 15'14"	26 ^o 12'	25 ^o 56'	16 ^o 4'	5 ^o 33'	29 ^o 18'	26 ^o 41'	10 ^o 28'	1 ^o 3'	24 ^o 12'	2 ^o 54'	2 ^o 42'	11 ^o 11'	24 ^o 43'	S 24
M 25	0 12 17	1 ^o 13'53"	11 ^m 18'	27 ^o 48'	17 ^o 10'	6 ^o 14'	29 ^o 28'	26 ^o 48'	10 ^o 32'	1 ^o 2'	24 ^o 14'	2 ^o 43'	2 ^o 39'	11 ^o 18'	24 ^o 41'	M 25
T 26	0 16 14	2 ^o 12'33"	26 ^o 10'	29 ^o 39'	18 ^o 16'	6 ^o 54'	29 ^o 37'	26 ^o 56'	10 ^o 35'	1 ^o 1'	24 ^o 17'	2 ^o 32'	2 ^o 36'	11 ^o 24'	24 ^o 38'	T 26
W 27	0 20 10	3 ^o 11'16"	11 ^m 8'	1 ^o 30'	19 ^o 22'	7 ^o 34'	29 ^o 46'	27 ^o 3'	10 ^o 39'	1 ^o 1'	24 ^o 19'	2 ^o 24'	2 ^o 32'	11 ^o 31'	24 ^o 35'	W 27
T 28	0 24 7	4 ^o 10'01"	25 ^o 54'	3 ^o 19'	20 ^o 28'	8 ^o 15'	29 ^o 55'	27 ^o 11'	10 ^o 42'	1 ^o 0'	24 ^o 21'	2 ^o 18'	2 ^o 29'	11 ^o 38'	24 ^o 32'	T 28
F 29	0 28 4	5 ^o 8'47"	10 ^m 21'	5 ^o 8'	21 ^o 35'	8 ^o 56'	0 ^o 08' 4"	27 ^o 18'	10 ^o 46'	0 ^o 59'	24 ^o 23'	2 ^o 15'	2 ^o 26'	11 ^o 45'	24 ^o 30'	F 29
S 30	0 32 0	6 ^o 7'35"	24 ^m 28'	6 ^o 56'	22 ^o 04'2"	9 ^m 36'	0 ^o 08'13"	27 ^h 26'	10 ^m 49'	0 ^{II} 58'	24 ^h 25'	2 ^o 14'	2 ^o 23'	11 ^o 51'	24 ^h 27'	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
F 1	8n35	22s59	2s56	13n51	0s57	18n49	2s49	7s51	0n 7	21n10	0n 6	4n14	1n57	8n51	0n44	18n42	1s42	16n 0	14n36	23s19	23s21	18n22	2n23	4n25			
S 2	8 14	24 16	1 50	13 54	0 40	18 45	2 44	8 6	0 6	21 8	0 6	4 11	1 57	8 49	0 44	18 42	1 42	15 59	14 36	23 19	23 21	18 24	2 22	4 25			
S 3	7 52	24 2	0 39	13 53	0 24	18 40	2 38	8 22	0 6	21 6	0 6	4 8	1 57	8 48	0 44	18 42	1 42	15 58	14 36	23 19	23 21	18 25	2 21	4 25			
M 4	7 30	22 23	0n33	13 50	0 8	18 35	2 33	8 37	0 5	21 4	0 6	4 6	1 57	8 47	0 44	18 42	1 42	15 57	14 36	23 19	23 21	18 27	2 20	4 25			
T 5	7 8	19 29	1 42	13 43	0n 7	18 29	2 28	8 52	0 4	21 2	0 6	4 3	1 57	8 45	0 44	18 42	1 42	15 56	14 36	23 19	23 22	18 29	2 19	4 25			
W 6	6 46	15 38	2 45	13 32	0 21	18 23	2 23	9 7	0 4	21 0	0 6	4 0	1 57	8 44	0 44	18 42	1 42	15 56	14 36	23 19	23 22	18 30	2 18	4 25			
T 7	6 24	11 7	3 38	13 19	0 34	18 16	2 18	9 22	0 3	20 58	0 7	3 57	1 57	8 42	0 44	18 42	1 42	15 55	14 36	23 19	23 22	18 32	2 16	4 25			
F 8	6 1	6 10	4 18	13 2	0 45	18 9	2 13	9 37	0 2	20 56	0 7	3 54	1 57	8 41	0 44	18 42	1 42	15 54	14 36	23 20	23 22	18 34	2 15	4 25			
S 9	5 39	1 4	4 46	12 42	0 56	18 1	2 8	9 52	0 2	20 54	0 7	3 51	1 57	8 40	0 44	18 42	1 42	15 53	14 36	23 20	23 22	18 35	2 14	4 25			
S 10	5 16	4n 0	5 0	12 18	1 6	17 53	2 2	10 7	0 1	20 52	0 7	3 48	1 57	8 38	0 44	18 42	1 42	15 52	14 36	23 21	23 22	18 37	2 13	4 25			
M11	4 54	8 50	4 59	11 52	1 15	17 45	1 57	10 22	0 0	20 50	0 7	3 45	1 57	8 37	0 44	18 42	1 42	15 51	14 36	23 21	23 22	18 39	2 12	4 25			
T 12	4 31	13 17	4 45	11 23	1 23	17 36	1 52	10 36	0s 1	20 48	0 7	3 42	1 57	8 35	0 44	18 41	1 42	15 50	14 36	23 21	23 22	18 40	2 11	4 25			
W13	4 8	17 9	4 19	10 52	1 29	17 26	1 47	10 51	0 1	20 46	0 7	3 39	1 57	8 34	0 44	18 41	1 43	15 50	14 36	23 22	23 22	18 42	2 10	4 25			
T 14	3 45	20 19	3 41	10 18	1 35	17 16	1 42	11 6	0 2	20 44	0 7	3 36	1 57	8 33	0 44	18 41	1 43	15 49	14 36	23 22	23 22	18 44	2 9	4 25			
F 15	3 22	22 37	2 54	9 41	1 40	17 6	1 37	11 21	0 3	20 42	0 8	3 33	1 57	8 31	0 44	18 41	1 43	15 48	14 36	23 22	23 22	18 45	2 7	4 25			
S 16	2 59	23 56	2 0	9 3	1 43	16 55	1 32	11 35	0 3	20 40	0 8	3 30	1 57	8 30	0 44	18 41	1 43	15 47	14 36	23 22	23 22	18 47	2 6	4 25			
S 17	2 36	24 10	0 59	8 23	1 46	16 43	1 27	11 50	0 4	20 38	0 8	3 27	1 57	8 28	0 44	18 41	1 43	15 46	14 36	23 22	23 23	18 49	2 5	4 25			
M18	2 13	23 15	0s 5	7 42	1 48	16 31	1 22	12 4	0 5	20 36	0 8	3 24	1 57	8 27	0 44	18 41	1 43	15 45	14 36	23 22	23 23	18 50	2 4	4 25			
T 19	1 50	21 9	1 11	6 59	1 49	16 19	1 17	12 19	0 5	20 34	0 8	3 22	1 57	8 26	0 44	18 41	1 43	15 45	14 36	23 22	23 23	18 52	2 3	4 25			
W20	1 27	17 55	2 15	6 15	1 49	16 6	1 12	12 33	0 6	20 32	0 8	3 19	1 57	8 24	0 44	18 40	1 43	15 44	14 36	23 22	23 23	18 53	2 2	4 24			
T 21	1 4	13 41	3 14	5 30	1 49	15 53	1 7	12 47	0 7	20 30	0 8	3 16	1 57	8 23	0 44	18 40	1 43	15 43	14 36	23 22	23 23	18 55	2 0	4 24			
F 22	0 41	8 36	4 4	4 45	1 47	15 39	1 2	13 1	0 7	20 28	0 8	3 13	1 57	8 22	0 44	18 40	1 43	15 42	14 36	23 22	23 23	18 57	1 59	4 24			
S 23	0 17	2 55	4 40	3 58	1 46	15 25	0 57	13 15	0 8	20 27	0 8	3 10	1 57	8 20	0 44	18 40	1 43	15 41	14 36	23 23	23 23	18 58	1 58	4 24			
S 24	0s 6	3s 3	4 58	3 12	1 43	15 10	0 52	13 30	0 9	20 25	0 9	3 7	1 57	8 19	0 44	18 40	1 43	15 41	14 36	23 23	23 23	19 0	1 57	4 24			
M25	0 29	8 57	4 57	2 25	1 40	14 55	0 47	13 44	0 9	20 23	0 9	3 4	1 57	8 18	0 44	18 40	1 43	15 40	14 36	23 23	23 23	19 1	1 56	4 24			
T 26	0 53	14 22	4 35	1 37	1 37	14 40	0 43	13 57	0 10	20 21	0 9	3 1	1 58	8 16	0 44	18 39	1 43	15 39	14 36	23 23	23 23	19 3	1 55	4 24			
W27	1 16	18 52	3 55	0 50	1 33	14 24	0 38	14 11	0 11	20 19	0 9	2 58	1 58	8 15	0 44	18 39	1 43	15 38	14 37	23 23	23 23	19 5	1 53	4 24			
T 28	1 39	22 7	2 59	0 3	1 29	14 7	0 33	14 25	0 11	20 18	0 9	2 55	1 58	8 14	0 44	18 39	1 43	15 38	14 37	23 23	23 23	19 6	1 52	4 24			
F 29	2 3	23 50	1 53	0s45	1 25	13 51	0 29	14 39	0 12	20 16	0 9	2 52	1 58	8 12	0 44	18 39	1 43	15 37	14 37	23 24	23 23	19 8	1 51	4 24			
S 30	2s26	23s59	0s41	1s32	1n20	13n33	0s24	14s52	0s12	20n14	0n 9	2n49	1n58	8n11	0n44	18n39	1s43	15n36	14n37	23s24	23s23	19n 9	1n50	4n23			

ASTRODIENST EPHEMERIS for the year 2215

geocentric

OCTOBER 2215

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 35 57	7♂ 6'24	8♂14	8♂43	23♂49	10♂17	0♂22	27♂33	10♂53	0°R58	24♂27	2°R14	2♂20	11♂58	24°R24	S 1
M 2	0 39 53	8° 5'16	21°40	10°29	24°56	10°58	0°30	27°41	10°56	0♂57	24°30	2♂13	2°17	12° 5	24°K21	M 2
T 3	0 43 50	9° 4'09	4♂48	12°15	26° 4	11°39	0°39	27°48	11° 0	0°56	24°32	2°11	2°13	12°11	24°19	T 3
W 4	0 47 46	10° 3'03	17°41	13°59	27°11	12°20	0°47	27°55	11° 3	0°55	24°34	2° 7	2°10	12°18	24°16	W 4
T 5	0 51 43	11° 2'00	0♂22	15°43	28°19	13° 1	0°55	28° 3	11° 6	0°54	24°36	2° 0	2° 7	12°25	24°13	T 5
F 6	0 55 39	12° 0'58	12°51	17°25	29°27	13°42	1° 3	28°10	11°10	0°53	24°38	1°50	2° 4	12°31	24°11	F 6
S 7	0 59 36	12°59'58	25°11	19° 7	0♂35	14°23	1°11	28°17	11°13	0°52	24°40	1°37	2° 1	12°38	24° 8	S 7
S 8	1 3 33	13°59'00	7♂23	20°48	1°44	15° 4	1°19	28°25	11°17	0°51	24°42	1°24	1°57	12°45	24° 6	S 8
M 9	1 7 29	14°58'04	19°27	22°28	2°52	15°46	1°27	28°32	11°20	0°50	24°44	1°10	1°54	12°51	24° 3	M 9
T 10	1 11 26	15°57'10	1♂24	24° 7	4° 1	16°27	1°34	28°39	11°23	0°49	24°46	0°57	1°51	12°58	24° 0	T 10
W11	1 15 22	16°56'18	13°16	25°45	5°10	17° 8	1°42	28°47	11°26	0°48	24°48	0°47	1°48	13° 5	23°58	W11
T 12	1 19 19	17°55'28	25° 5	27°23	6°19	17°50	1°49	28°54	11°30	0°47	24°51	0°39	1°45	13°12	23°55	T 12
F 13	1 23 15	18°54'41	6♂53	29° 0	7°28	18°31	1°56	29° 1	11°33	0°46	24°53	0°34	1°42	13°18	23°53	F 13
S 14	1 27 12	19°53'56	18°45	0♂36	8°38	19°13	2° 3	29° 8	11°36	0°44	24°55	0°31	1°38	13°25	23°50	S 14
S 15	1 31 8	20°53'13	0♂44	2°11	9°47	19°55	2°10	29°15	11°39	0°43	24°57	0°D30	1°35	13°32	23°48	S 15
M16	1 35 5	21°52'32	12°55	3°46	10°57	20°36	2°17	29°23	11°42	0°42	24°59	0°31	1°32	13°38	23°46	M16
T 17	1 39 2	22°51'54	25°24	5°20	12° 7	21°18	2°23	29°30	11°45	0°41	25° 1	0°R31	1°29	13°45	23°43	T 17
W18	1 42 58	23°51'18	8♂15	6°53	13°17	22° 0	2°29	29°37	11°48	0°40	25° 3	0°30	1°26	13°52	23°41	W18
T 19	1 46 55	24°50'44	21°33	8°26	14°27	22°42	2°36	29°44	11°51	0°38	25° 5	0°27	1°23	13°58	23°39	T 19
F 20	1 50 51	25°50'12	5♂21	9°57	15°37	23°24	2°42	29°51	11°54	0°37	25° 6	0°22	1°19	14° 5	23°36	F 20
S 21	1 54 48	26°49'43	19°38	11°29	16°48	24° 6	2°48	29°58	11°57	0°36	25° 8	0°14	1°16	14°12	23°34	S 21
S 22	1 58 44	27°49'16	4♂22	12°59	17°58	24°48	2°53	0♂ 5	12° 0	0°34	25°10	0° 5	1°13	14°18	23°32	S 22
M23	2 2 41	28°48'51	19°27	14°29	19° 9	25°31	2°59	0°12	12° 3	0°33	25°12	29°J55	1°10	14°25	23°30	M23
T 24	2 6 37	29°48'28	4♂42	15°58	20°20	26°13	3° 4	0°19	12° 6	0°31	25°14	29°46	1° 7	14°32	23°28	T 24
W25	2 10 34	0♂48'07	19°57	17°27	21°30	26°55	3°10	0°25	12° 9	0°30	25°16	29°39	1° 3	14°38	23°26	W25
T 26	2 14 30	1°47'49	5♂ 1	18°55	22°41	27°38	3°15	0°32	12°11	0°29	25°18	29°34	1° 0	14°45	23°24	T 26
F 27	2 18 27	2°47'32	19°46	20°22	23°53	28°20	3°20	0°39	12°14	0°27	25°20	29°32	0°57	14°52	23°22	F 27
S 28	2 22 24	3°47'16	4♂ 6	21°48	25° 4	29° 3	3°24	0°46	12°17	0°26	25°21	29°D32	0°54	14°58	23°20	S 28
S 29	2 26 20	4°47'03	18° 1	23°14	26°15	29°45	3°29	0°52	12°20	0°24	25°23	29°32	0°51	15° 5	23°18	S 29
M30	2 30 17	5°46'51	1♂31	24°39	27°27	0♂28	3°33	0°59	12°22	0°23	25°25	29°R33	0°48	15°12	23°16	M30
T 31	2 34 13	6♂46'40	14♂37	26♂ 3	28♂38	1♂11	3♂28	1♂ 6	12♂25	0♂21	25♂27	29♂J33	0♂44	15♂19	23♂K14	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	2s49	22s38	0n32	2s19	1n14	13n16	0s20	15s 6	0s13	20n12	0n10	2n47	1n58	8n10	0n44	18n38
M 2	3 12 20	1 41	3 5	1 9	12 57	0 15	15 19	0 14	20 11	0 10	2 44	1 58	8 8	0 44	18 38	1 s43
T 3	3 35 16	2 43	3 52	1 3	12 39	0 11	15 32	0 14	20 9	0 10	2 41	1 58	8 7	0 44	18 38	1 s43
W 4	3 59 12	5 3	3 36	4 38	0 57	12 20	0 6	15 45	0 15	20 7	0 10	2 38	1 58	8 6	0 44	18 38
T 5	4 22 7	2 20	4 16	5 23	0 51	12 1	0 2	15 58	0 16	20 6	0 10	2 35	1 58	8 4	0 44	18 38
F 6	4 45 2	2 21	4 44	6 8	0 45	11 41	0n 2	16 11	0 16	20 4	0 10	2 32	1 58	8 3	0 44	18 37
S 7	5 8 2n39	4 58	6 53	0 39	11 21	0 6	16 24	0 17	20 2	0 10	2 29	1 58	8 2	0 44	18 37	1 s43
S 8	5 31 7 30	4 59	7 37	0 32	11 1	0 10	16 37	0 17	20 1	0 10	2 27	1 58	8 1	0 44	18 37	1 s43
M 9	5 53 12	0 4	4 45	8 20	0 25	10 40	0 14	16 50	0 18	19 59	0 11	2 24	1 59	7 59	0 44	18 37
T 10	6 16 16	0 4	4 20	9 3	0 19	10 19	0 18	17 2	0 19	19 58	0 11	2 21	1 59	7 58	0 44	18 36
W11	6 39 19	20 3	4 43	9 46	0 12	9 57	0 22	17 14	0 19	19 56	0 11	2 18	1 59	7 57	0 44	18 36
T 12	7 1 21	52 2	5 6	10 27	0 5	9 35	0 26	17 27	0 20	19 55	0 11	2 15	1 59	7 56	0 44	18 36
F 13	7 24 23 26	2 2	2 11	8 0s 2	9 13	0 30	17 39	0 21	19 53	0 11	2 13	1 59	7 55	0 44	18 35	1 s43
S 14	7 46 23 58	1 2	11 49	0 9	8 51	0 34	17 51	0 21	19 52	0 11	2 10	1 59	7 53	0 44	18 35	1 s43
S 15	8 9 23	23 0s 1	12 28	0 16	8 28	0 37	18 3	0 22	19 50	0 11	2 7	1 59	7 52	0 44	18 35	1 s43
M16	8 31 21	42 1	6 13	7 0	23 8 5	0 41	18 14	0 22	19 49	0 12	2 4	1 59	7 51	0 44	18 35	1 s43
T 17	8 53 18	56 2	9 13	45 0	30 7 41	0 44	18 26	0 23	19 48	0 12	2 2	1 59	7 50	0 45	18 34	1 s43
W18	9 15 15	10 3	7 14	23 0	37 7 18	0 47	18 38	0 24	19 46	0 12	1 59	2 0	7 49	0 45	18 34	1 s43
T 19	9 37 10	33 3	5 7	14 59	0 44	6 54	0 51	18 49	0 24	19 45	0 12	1 56	2 0	7 48	0 45	18 34
F 20	9 58 5 16	4 36	15 35	0 51	6 30	0 54	19 0	0 25	19 44	0 12	1 54	2 0	7 47	0 45	18 33	1 s43
S 21	10 20 0s29	4 59	16 10	0 58	6 5	0 57	19 11	0 25	19 43	0 12	1 51	2 0	7 45	0 45	18 33	1 s43
S 22	10 41 6 22	5 3	16 44	1 4	5 40	1 0	19 22	0 26	19 42	0 12	1 48	2 0	7 44	0 45	18 33	1 s43
M23	11 2 12	1 4	4 47	17 18	1 11	5 15	1 3	19 33	0 26	19 40	0 13	1 46	2 0	7 43	0 45	18 33
T 24	11 23 17	0 4	10 17	50 1	18 4 50	1 6	19 43	0 27	19 39	0 13	1 43	2 0	7 42	0 45	18 32	1 s43
W25	11 44 20	50 3	15 18	22 1	24 4 25	1 9	19 54	0 28	19 38	0 13	1 40	2 0	7 41	0 45	18 32	1 s43
T 26	12 5 23	12 2	7 18	52 1	30 3 59	1 11	20 4	0 28	19 37	0 13	1 38	2 0	7 40	0 45	18 32	1 s43
F 27	12 26 23 53	0 52	19 22	1 36	3 34	1 14	20 14	0 29	19 36	0 13	1 35	2 1	7 39	0 45	18 31	1 s43
S 28	12 46 22	56 0n25	19 51	1 43	3 8	1 17	20 24	0 29	19 35	0 13	1 33	2 1	7 38	0 45	18 31	1 s43
S 29	13 6 20	35 1 38	20 19	1 48	2 42	1 19	20 34	0 30	19 34	0 13	1 30	2 1	7 37	0 45	18 31	1 s43
M30	13 26 17	9 2 43	20 45	1 54	2 16	1 21	20 43	0 30	19 33	0 14	1 28	2 1	7 36	0 45	18 30	1 s43
T 31	13s46	12s57	3n38	21s11	2s 0	1n49	1n24	20s53	0s31	19n33	0n14	1n25	2n 1	7n35	0n45	18n30

Julian Day Number = 2530344.5, Delta T = 179.20 sec
 Ecliptic obliquity = 23°24'41", Nutation = 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°45'19", Lahiri = 26°52'20"

ASTRODIENST EPHEMERIS for the year 2215

geocentric

NOVEMBER 2215

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 38 10	7m46'31	27 ²² 25	27m27	29m50	1 ²⁷ 54	3 ⁰² 42	1 ¹² 12	12m27	0°R20	25m29	29°R31	0 ³ 41	15 ⁸ 25	23°R12	W 1
T 2	2 42 6	8°46'24	9 ²² 56	28°49	1 ² 2	2°37	3°46	1°19	12°30	0 ¹¹ 18	25°30	29 ²⁷ 27	0°38	15°32	23 ¹⁰ 10	T 2
F 3	2 46 3	9°46'19	22°14	0 ²⁷ 11	2°14	3°19	3°49	1°25	12°32	0°17	25°32	29°20	0°35	15°39	23°9	F 3
S 4	2 49 59	10°46'15	4 ²⁷ 23	1°32	3°26	4°2	3°53	1°31	12°35	0°15	25°34	29°12	0°32	15°45	23°7	S 4
S 5	2 53 56	11°46'13	16°24	2°51	4°38	4°46	3°56	1°38	12°37	0°13	25°35	29°3	0°28	15°52	23°5	S 5
M 6	2 57 53	12°46'13	28°20	4°9	5°50	5°29	3°59	1°44	12°39	0°12	25°37	28°53	0°25	15°59	23°4	M 6
T 7	3 1 49	13°46'14	10 ²⁸ 12	5°27	7°2	6°12	4°2	1°50	12°42	0°10	25°39	28°45	0°22	16°5	23°2	T 7
W 8	3 5 46	14°46'18	22°2	6°42	8°14	6°55	4°5	1°57	12°44	0°9	25°40	28°38	0°19	16°12	23°1	W 8
T 9	3 9 42	15°46'23	3 ¹¹ 52	7°57	9°27	7°38	4°8	2°3	12°46	0°7	25°42	28°33	0°16	16°19	22°59	T 9
F 10	3 13 39	16°46'30	15°43	9°9	10°39	8°22	4°10	2°9	12°48	0°5	25°43	28°30	0°13	16°25	22°58	F 10
S 11	3 17 35	17°46'39	27°39	10°20	11°52	9°5	4°12	2°15	12°50	0°4	25°45	28°D29	0°9	16°32	22°57	S 11
S 12	3 21 32	18°46'51	9 ²⁸ 42	11°28	13°5	9°49	4°14	2°21	12°52	0°2	25°46	28°29	0°6	16°39	22°56	S 12
M13	3 25 28	19°47'04	21°56	12°34	14°17	10°32	4°16	2°27	12°54	0°0	25°48	28°31	0°3	16°45	22°54	M13
T 14	3 29 25	20°47'19	4 ⁰² 25	13°38	15°30	11°16	4°18	2°32	12°56	29 ²⁸ 59	25°49	28°32	29 ²⁷ 59	16°52	22°53	T 14
W15	3 33 22	21°47'36	17°13	14°38	16°43	11°59	4°19	2°38	12°58	29°57	25°51	28°R33	29°57	16°59	22°52	W15
T 16	3 37 18	22°47'55	0 ²⁹ 25	15°35	17°56	12°43	4°20	2°44	13°0	29°55	25°52	28°33	29°54	17°5	22°51	T 16
F 17	3 41 15	23°48'16	14°3	16°29	19°9	13°27	4°21	2°50	13°2	29°54	25°53	28°32	29°50	17°12	22°50	F 17
S 18	3 45 11	24°48'39	28°9	17°18	20°23	14°11	4°22	2°55	13°4	29°52	25°55	28°28	29°47	17°19	22°49	S 18
S 19	3 49 8	25°49'04	12 ²⁹ 41	18°3	21°36	14°55	4°23	3°1	13°5	29°50	25°56	28°24	29°44	17°26	22°48	S 19
M20	3 53 4	26°49'30	27°36	18°42	22°49	15°39	4°23	3°6	13°7	29°49	25°57	28°19	29°41	17°32	22°47	M20
T 21	3 57 1	27°49'59	12m46	19°15	24°3	16°23	4°24	3°11	13°9	29°47	25°58	28°15	29°38	17°39	22°46	T 21
W22	4 0 57	28°50'29	28°1	19°42	25°16	17°7	4°R24	3°17	13°10	29°45	26°0	28°11	29°34	17°46	22°46	W22
T 23	4 4 54	29°51'01	13 ²⁷ 11	20°1	26°30	17°51	4°24	3°22	13°12	29°44	26°1	28°9	29°31	17°52	22°45	T 23
F 24	4 8 51	0 ²⁷ 51'34	28°7	20°12	27°43	18°35	4°23	3°27	13°13	29°42	26°2	28°D 8	29°28	17°59	22°44	F 24
S 25	4 12 47	1°52'09	12 ²⁸ 41	20°R14	28°57	19°20	4°23	3°32	13°15	29°40	26°3	28°9	29°25	18°6	22°44	S 25
S 26	4 16 44	2°52'45	26°48	20°7	0m.10	20°4	4°22	3°37	13°16	29°39	26°4	28°10	29°22	18°12	22°43	S 26
M27	4 20 40	3°53'22	10 ²⁸ 29	19°49	1°24	20°48	4°21	3°42	13°17	29°37	26°5	28°12	29°19	18°19	22°43	M27
T 28	4 24 37	4°54'00	23°43	19°21	2°38	21°33	4°20	3°47	13°18	29°35	26°6	28°13	29°15	18°26	22°42	T 28
W29	4 28 33	5°54'39	6 ²⁸ 33	18°42	3°52	22°17	4°19	3°52	13°20	29°33	26°7	28°R13	29°12	18°32	22°42	W29
T 30	4 32 30	6 ²⁷ 55'20	19 ²⁸ 3	17 ²⁷ 52	5m.6	23 ²⁷ 2	4 ⁰² 17	3 ²⁸ 57	13m21	29 ²⁸ 32	26m8	28 ²⁷ 13	29 ²⁷ 9	18 ²⁸ 39	22 ²⁷ 42	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
W 1	14s 5	8s16	4n21	21s36	2s 5	1n23	1n26	21s 2	0s31	19n32	0n14	1n23	2n 1	7n34	0n45	18n30	1s44	15n18	14n45	23s25	23s25	19n56	1n15	4n17	
T 2	14 24	3 22	4 50	21 59	2 10	0 56	1 28	21 11	0 32	19 31	0 14	1 20	2 2	7 33	0 45	18 29	1 44	15 18	14 46	23 25	23 25	19 58	1 14	4 17	
F 3	14 44	1n35	5 5	22 22	2 15	0 30	1 30	21 20	0 33	19 30	0 14	1 18	2 2	7 33	0 45	18 29	1 44	15 18	14 46	23 25	23 25	19 59	1 13	4 17	
S 4	15 2	6 25	5 6	22 43	2 19	0 3	1 32	21 28	0 33	19 30	0 14	1 16	2 2	7 32	0 45	18 29	1 44	15 17	14 46	23 25	23 25	20 0	1 12	4 17	
S 5	15 21	10 57	4 53	23 3	2 24	0s24	1 34	21 37	0 34	19 29	0 15	1 13	2 2	7 31	0 45	18 28	1 45	15 17	14 47	23 24	23 25	20 2	1 11	4 16	
M 6	15 39	15 2	4 28	23 22	2 27	0 51	1 35	21 45	0 34	19 28	0 15	1 11	2 2	7 30	0 45	18 28	1 45	15 17	14 47	23 24	23 25	20 3	1 10	4 16	
T 7	15 57	18 31	3 51	23 40	2 31	1 18	1 37	21 53	0 35	19 28	0 15	1 9	2 2	7 29	0 45	18 28	1 45	15 17	14 47	23 24	23 25	20 5	1 10	4 16	
W 8	16 15	21 13	3 4	23 56	2 34	1 45	1 39	22 1	0 35	19 27	0 15	1 6	2 3	7 28	0 45	18 27	1 45	15 16	14 48	23 24	23 25	20 6	1 9	4 16	
T 9	16 33	23 1	2 10	24 12	2 37	2 12	1 40	22 9	0 36	19 27	0 15	1 4	2 3	7 27	0 45	18 27	1 45	15 16	14 48	23 24	23 25	20 7	1 8	4 15	
F 10	16 50	23 47	1 9	24 25	2 40	2 39	1 41	22 16	0 36	19 27	0 15	1 2	2 3	7 27	0 45	18 26	1 45	15 16	14 49	23 24	23 25	20 9	1 7	4 15	
S 11	17 7	23 28	0 5	24 38	2 41	3 7	1 43	22 24	0 37	19 26	0 16	1 0	2 3	7 26	0 45	18 26	1 45	15 16	14 49	23 24	23 25	20 10	1 6	4 15	
S 12	17 23	22 3	1s 1	24 49	2 43	3 34	1 44	22 31	0 37	19 26	0 16	0 57	2 3	7 25	0 45	18 26	1 45	15 15	14 50	23 24	23 25	20 11	1 6	4 15	
M13	17 40	19 35	2 4	24 59	2 44	4 1	1 45	22 38	0 38	19 26	0 16	0 55	2 4	7 24	0 45	18 25	1 45	15 15	14 50	23 24	23 25	20 13	1 5	4 14	
T 14	17 56	16 10	3 3	25 7	2 44	4 28	1 46	22 44	0 38	19 25	0 16	0 53	2 4	7 24	0 45	18 25	1 45	15 15	14 50	23 24	23 25	20 14	1 4	4 14	
W15	18 12	11 55	3 55	25 14	2 44	4 55	1 47	22 51	0 39	19 25	0 16	0 51	2 4	7 23	0 46	18 25	1 45	15 15	14 51	23 24	23 25	20 15	1 4	4 14	
T 16	18 27	7 1	4 36	25 19	2 42	5 22	1 48	22 57	0 39	19 25	0 16	0 49	2 4	7 22	0 46	18 24	1 45	15 15	14 51	23 24	23 25	20 16	1 3	4 14	
F 17	18 42	1 37	5 3	25 23	2 40	5 49	1 48	23 3	0 40	19 25	0 17	0 47	2 4	7 22	0 46	18 24	1 45	15 15	14 52	23 24	23 25	20 18	1 2	4 13	
S 18	18 57	4s 2	5 12	25 25	2 38	6 16	1 49	23 9	0 40	19 25	0 17	0 45	2 5	7 21	0 46	18 24	1 45	15 14	14 52	23 24	23 25	20 19	1 2	4 13	
S 19	19 11	9 39	5 3	25 26	2 34	6 43	1 50	23 14	0 41	19 25	0 17	0 43	2 5	7 20	0 46	18 23	1 45	15 14	14 53	23 24	23 25	20 20	1 1	4 13	
M20	19 25	14 51	4 33	25 25	2 29	7 10	1 50	23 19	0 41	19 25	0 17	0 41	2 5	7 20	0 46	18 23	1 45	15 14	14 53	23 24	23 25	20 22	1 0	4 12	
T 21	19 39	19 12	3 43	25 22	2 23	7 36	1 50	23 25	0 42	19 25	0 17	0 39	2 5	7 19	0 46	18 23	1 45	15 14	14 54	23 24	23 25	20 23	1 0	4 12	
W22	19 53	22 15	2 38	25 17	2 16	8 3	1 51	23 29	0 42	19 25	0 17	0 37	2 5	7 19	0 46	18 22	1 45	15 14	14 54	23 24	23 25	20 24	0 59	4 12	
T 23	20 6	23 42	1 21	25 10	2 8	8 29	1 51	23 34	0 43	19 25	0 18	0 35	2 6	7 18	0 46	18 22	1 45	15 14	14 54	23 24	23 25	20 25	0 59	4 12	
F 24	20 18	23 24	0 0	25 1	1 58	8 55	1 51	23 38	0 43	19 26	0 18	0 33	2 6	7 18	0 46	18 22	1 45	15 14	14 55	23 24	23 25	20 27	0 58	4 11	
S 25	20 31	21 30	1n19	24 50	1 47	9 21	1 51	23 43	0 44	19 26	0 18	0 31	2 6	7 17	0 46	18 21	1 45	15 14	14 55	23 24	23 25	20 28	0 58	4 11	
S 26	20 43	18 18	2 31	24 37	1 35	9 47	1 51	23 46	0 44	19 26	0 18	0 30	2 6	7 17	0 46	18 21	1 45	15 14	14 56	23 24	23 25	20 29	0 57	4 11	
M27	20 54	14 11	3 32	24 22	1 21	10 13	1 51	23 50	0 45	19 27	0 18	0 28	2 7	7 16	0 46	18 20	1 45	15 14	14 56	23 24	23 25	20 30	0 57	4 10	
T 28	21 5	9 30	4 20	24 4	1 5	10 38	1 51	23 54	0 45	19 27	0 18	0 26	2 7	7 16	0 46	18 20	1 45	15 14	14 57	23 24	23 25	20 32	0 56	4 10	
W29	21 16	4 33	4 53	23 44	0 48	11 4	1 50	23 57	0 46	19 28	0 19	0 25	2 7	7 15	0 46	18 20	1 45	15 14	14 57	23 24	23 25	20 33	0 56	4 10	
T 30	21s26	0n27	5n11	23s21	0s30	11s29	1n50	24s 0	0s46	19n28	0n19	0n23	2n 7	7n15	0n46	18n19	1s45	15n14	14n58	23s24	23s25	20n34	0n56	4n10	

ASTRODIENST EPHEMERIS for the year 2215
geocentric

DECEMBER 2215

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 36 27	7♂56'01	1♂18	16°R53	6♂19	23♂46	4°R15	4♂1	13♂22	29°R30	26♂9	28°R11	29♂6	18♂46	22°R42	F 1
S 2	4 40 23	8°56'44	13°21	15♂44	7°33	24°31	4♂13	4°6	13°23	29♂28	26°10	28♂9	29°3	18°52	22♂41	S 2
S 3	4 44 20	9°57'27	25°17	14°29	8°47	25°16	4°11	4°10	13°24	29°27	26°11	28°6	29°0	18°59	22°41	S 3
M 4	4 48 16	10°58'12	7♂8	13°9	10°2	26°1	4°9	4°14	13°25	29°25	26°12	28°3	28°56	19°6	22°D41	M 4
T 5	4 52 13	11°58'58	18°57	11°46	11°16	26°45	4°6	4°19	13°26	29°23	26°13	28°0	28°53	19°12	22°41	T 5
W 6	4 56 9	12°59'45	0♂48	10°24	12°30	27°30	4°4	4°23	13°26	29°22	26°14	27°58	28°50	19°19	22°41	W 6
T 7	5 0 6	14°0'33	12°42	9°5	13°44	28°15	4°1	4°27	13°27	29°20	26°15	27°57	28°47	19°26	22°41	T 7
F 8	5 4 2	15°1'22	24°41	7°52	14°58	29°0	3°58	4°31	13°28	29°19	26°15	27°D56	28°44	19°32	22°42	F 8
S 9	5 7 59	16°2'12	6♂46	6°47	16°12	29°45	3°55	4°35	13°28	29°17	26°16	27°56	28°40	19°39	22°42	S 9
S 10	5 11 56	17°3'04	19°1	5°52	17°27	0♂30	3°51	4°39	13°29	29°15	26°17	27°57	28°37	19°46	22°42	S 10
M 11	5 15 52	18°3'56	1♂26	5°7	18°41	1°16	3°47	4°43	13°30	29°14	26°17	27°58	28°34	19°52	22°42	M 11
T 12	5 19 49	19°4'50	14°5	4°34	19°55	2°1	3°44	4°46	13°30	29°12	26°18	27°59	28°31	19°59	22°43	T 12
W 13	5 23 45	20°5'45	26°59	4°12	21°10	2°46	3°40	4°50	13°30	29°11	26°19	28°0	28°28	20°6	22°43	W 13
T 14	5 27 42	21°6'42	10♂11	4°1	22°24	3°31	3°35	4°53	13°31	29°9	26°19	28°0	28°25	20°12	22°44	T 14
F 15	5 31 38	22°7'39	23°43	4°D 0	23°39	4°17	3°31	4°57	13°31	29°8	26°20	28°R 0	28°21	20°19	22°44	F 15
S 16	5 35 35	23°8'38	7♂36	4°10	24°53	5°2	3°26	5°0	13°31	29°6	26°20	28°0	28°18	20°26	22°45	S 16
S 17	5 39 31	24°9'37	21°51	4°29	26°8	5°48	3°22	5°3	13°32	29°5	26°21	28°0	28°15	20°32	22°46	S 17
M 18	5 43 28	25°10'38	6♂24	4°56	27°23	6°33	3°17	5°6	13°32	29°3	26°21	28°0	28°12	20°39	22°46	M 18
T 19	5 47 25	26°11'40	21°13	5°31	28°37	7°19	3°12	5°9	13°32	29°2	26°21	27°59	28°9	20°46	22°47	T 19
W 20	5 51 21	27°12'43	6♂10	6°12	29°52	8°4	3°7	5°12	13°R32	29°0	26°22	27°59	28°6	20°53	22°48	W 20
T 21	5 55 18	28°13'47	21°7	6°59	1♂6	8°50	3°1	5°15	13°32	28°59	26°22	27°59	28°2	20°59	22°49	T 21
F 22	5 59 14	29°14'52	5♂58	7°51	2°21	9°36	2°56	5°18	13°32	28°57	26°22	27°59	27°59	21°6	22°50	F 22
S 23	6 3 11	0♂15'57	20°32	8°48	3°36	10°21	2°50	5°20	13°31	28°56	26°23	27°59	27°56	21°13	22°51	S 23
S 24	6 7 7	1°17'03	4♂46	9°49	4°51	11°7	2°44	5°23	13°31	28°54	26°23	27°59	27°53	21°19	22°52	S 24
M 25	6 11 4	2°18'09	18°35	10°54	6°5	11°53	2°38	5°25	13°31	28°53	26°23	27°58	27°50	21°26	22°53	M 25
T 26	6 15 0	3°19'15	1♂57	12°1	7°20	12°39	2°32	5°28	13°31	28°52	26°23	27°58	27°46	21°33	22°54	T 26
W 27	6 18 57	4°20'21	14°55	13°11	8°35	13°25	2°26	5°30	13°30	28°50	26°23	27°57	27°43	21°39	22°56	W 27
T 28	6 22 54	5°21'28	27°30	14°24	9°50	14°11	2°19	5°32	13°30	28°49	26°23	27°57	27°40	21°46	22°57	T 28
F 29	6 26 50	6°22'34	9♂47	15°39	11°5	14°57	2°13	5°34	13°29	28°48	26°23	27°D57	27°37	21°53	22°58	F 29
S 30	6 30 47	7°23'41	21°50	16°55	12°19	15°43	2°6	5°36	13°29	28°47	26°R23	27°57	27°34	21°59	23°0	S 30
S 31	6 34 43	8♂24'48	3♂44	18♂14	13♂34	16♂29	1♂59	5♂38	13♂28	28♂45	26♂23	27♂58	27♂31	22♂6	23♂1	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	decl	lat
F 1	21s36	5n20	5n15	22s56	0s10	11s53	1n49	24s 2	0s46	19n29	0n19	0n21	2n 7	7n15	0n46	18n19	1s45	15n14	14n58	23s24	23s24	20n35	0n55	4n 9					
S 2	21 46	9 56	5 4	22 29	0n10	12 18	1 49	24 5	0 47	19 29	0 19	0 20	2 8	7 14	0 46	18 19	1 45	15 14	14 59	23 24	23 24	20 37	0 55	4 9					
S 3	21 55	14 7	4 41	22 0	0 30	12 42	1 48	24 7	0 47	19 30	0 19	0 18	2 8	7 14	0 46	18 18	1 45	15 14	14 59	23 24	23 24	20 38	0 55	4 9					
M 4	22 4	17 44	4 5	21 31	0 51	13 6	1 47	24 9	0 48	19 31	0 20	0 17	2 8	7 14	0 46	18 18	1 45	15 15	15 0	23 24	23 24	20 39	0 54	4 8					
T 5	22 12	20 38	3 19	21 0	1 10	13 30	1 47	24 10	0 48	19 32	0 20	0 15	2 8	7 13	0 46	18 18	1 44	15 15	15 0	23 24	23 24	20 40	0 54	4 8					
W 6	22 20	22 39	2 25	20 31	1 29	13 53	1 46	24 12	0 49	19 32	0 20	0 14	2 9	7 13	0 46	18 17	1 44	15 15	15 1	23 24	23 24	20 41	0 54	4 8					
T 7	22 27	23 40	1 23	20 2	1 46	14 16	1 45	24 13	0 49	19 33	0 20	0 12	2 9	7 13	0 46	18 17	1 44	15 15	15 1	23 24	23 24	20 43	0 54	4 7					
F 8	22 34	23 36	0 18	19 36	2 1	14 39	1 44	24 14	0 49	19 34	0 20	0 11	2 9	7 13	0 47	18 17	1 44	15 15	15 2	23 24	23 24	20 44	0 53	4 7					
S 9	22 41	22 26	0s49	19 13	2 14	15 2	1 43	24 14	0 50	19 35	0 20	0 10	2 9	7 12	0 47	18 16	1 44	15 15	15 2	23 24	23 24	20 45	0 53	4 7					
S 10	22 47	20 11	1 54	18 53	2 25	15 24	1 42	24 15	0 50	19 36	0 21	0 8	2 10	7 12	0 47	18 16	1 44	15 16	15 3	23 24	23 24	20 46	0 53	4 7					
M11	22 53	16 58	2 55	18 37	2 33	15 45	1 40	24 15	0 51	19 37	0 21	0 7	2 10	7 12	0 47	18 16	1 44	15 16	15 4	23 24	23 24	20 47	0 53	4 6					
T 12	22 58	12 56	3 49	18 25	2 40	16 7	1 39	24 15	0 51	19 38	0 21	0 6	2 10	7 12	0 47	18 15	1 44	15 16	15 4	23 24	23 24	20 48	0 53	4 6					
W13	23 3	8 14	4 32	18 16	2 44	16 27	1 38	24 14	0 51	19 39	0 21	0 5	2 10	7 12	0 47	18 15	1 44	15 16	15 5	23 24	23 24	20 50	0 53	4 6					
T 14	23 7	3 4	5 3	18 12	2 46	16 48	1 36	24 14	0 52	19 40	0 21	0 4	2 11	7 12	0 47	18 15	1 44	15 17	15 5	23 24	23 24	20 51	0 53	4 5					
F 15	23 11	2s21	5 17	18 11	2 47	17 8	1 35	24 13	0 52	19 42	0 22	0 2	2 11	7 12	0 47	18 15	1 44	15 17	15 6	23 24	23 24	20 52	0 53	4 5					
S 16	23 14	7 48	5 13	18 14	2 46	17 27	1 33	24 11	0 53	19 43	0 22	0 1	2 11	7 12	0 47	18 14	1 44	15 17	15 6	23 24	23 24	20 53	0 53	4 5					
S 17	23 17	13 0	4 51	18 20	2 44	17 47	1 32	24 10	0 53	19 44	0 22	0 0	2 11	7 11	0 47	18 14	1 44	15 17	15 7	23 24	23 24	20 54	0 53	4 4					
M18	23 19	17 33	4 9	18 28	2 40	18 5	1 30	24 8	0 53	19 45	0 22	0s 1	2 12	7 11	0 47	18 14	1 44	15 18	15 7	23 24	23 24	20 55	0 53	4 4					
T 19	23 21	21 6	3 11	18 38	2 36	18 24	1 28	24 6	0 54	19 47	0 22	0 2	2 12	7 11	0 47	18 13	1 44	15 18	15 8	23 24	23 24	20 56	0 53	4 4					
W20	23 23	23 15	1 58	18 50	2 31	18 41	1 27	24 4	0 54	19 48	0 22	0 2	2 12	7 12	0 47	18 13	1 44	15 18	15 8	23 24	23 24	20 57	0 53	4 4					
T 21	23 24	23 45	0 38	19 4	2 25	18 59	1 25	24 1	0 54	19 50	0 23	0 3	2 13	7 12	0 47	18 13	1 44	15 19	15 9	23 24	23 24	20 59	0 53	4 3					
F 22	23 25	22 32	0n44	19 18	2 19	19 15	1 23	23 58	0 55	19 51	0 23	0 4	2 13	7 12	0 47	18 13	1 44	15 19	15 9	23 24	23 24	21 0	0 53	4 3					
S 23	23 25	19 50	2 2	19 34	2 12	19 31	1 21	23 55	0 55	19 53	0 23	0 5	2 13	7 12	0 47	18 12	1 44	15 20	15 10	23 24	23 24	21 1	0 53	4 3					
S 24	23 24	15 58	3 11	19 50	2 5	19 47	1 19	23 52	0 55	19 54	0 23	0 6	2 13	7 12	0 47	18 12	1 44	15 20	15 10	23 24	23 24	21 2	0 53	4 2					
M25	23 23	11 20	4 6	20 7	1 58	20 2	1 17	23 48	0 56	19 56	0 23	0 6	2 14	7 12	0 47	18 12	1 44	15 20	15 11	23 24	23 24	21 3	0 53	4 2					
T 26	23 22	6 19	4 46	20 23	1 50	20 17	1 15	23 44	0 56	19 57	0 23	0 7	2 14	7 12	0 47	18 11	1 44	15 21	15 12	23 24	23 24	21 4	0 54	4 2					
W27	23 20	1 10	5 9	20 40	1 42	20 31	1 13	23 40	0 56	19 59	0 24	0 8	2 14	7 12	0 47	18 11	1 44	15 21	15 12	23 24	23 23	21 5	0 54	4 2					
T 28	23 18	3n52	5 18	20 57	1 34	20 44	1 10	23 36	0 57	20 0	0 24	0 8	2 14	7 13	0 47	18 11	1 44	15 22	15 13	23 24	23 23	21 6	0 54	4 1					
F 29	23 15	8 38	5 11	21 13	1 26	20 57	1 8	23 31	0 57	20 2	0 24	0 9	2 15	7 13	0 47	18 11	1 44	15 22	15 14	23 24	23 23	21 7	0 54	4 1					
S 30	23 12	12 59	4 51	21 29	1 18	21 9	1 6	23 26	0 57	20 4	0 24	0 9	2 15	7 13	0 47	18 11	1 44	15 23	15 14	23 24	23 23	21 8	0 55	4 1					
S 31	23s 9	16n47	4n18	21s44	1n 9	21s21	1n 4	23s21	0s58	20n 5	0n24	0s10	2n15	7n13	0n48	18n10	1s44	15n23	15n14	23s24	23s23	21n 9	0n55	4n 0					