



Astrodienst Ephemeris Tables for the year 1824

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 1824
geocentric

JANUARY 1824

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 38 25	9°35'31	5°53	20°26	23°11	3°22	5°R36	17°R17	11°35	7°14	0°Y 3	18°R36	19°3 7	1°52	9°Y26	T 1
F 2	6 42 21	10°36'43	17°46	22° 3	24° 9	3°45	5°28	17°15	11°39	7°16	0° 4	18°D35	19° 3	1°59	9°27	F 2
S 3	6 46 18	11°37'54	29°35	23°41	25°15	4° 8	5°20	17°13	11°42	7°19	0° 4	18°36	19° 0	2° 5	9°28	S 3
S 4	6 50 15	12°39'05	11°22	25°18	26°20	4°30	5°12	17°11	11°46	7°21	0° 5	18°36	18°57	2°12	9°28	S 4
M 5	6 54 11	13°40'16	23°10	26°55	27°26	4°52	5° 4	17°10	11°49	7°23	0° 5	18°37	18°54	2°19	9°29	M 5
T 6	6 58 8	14°41'27	5°11	28°31	28°32	5°14	4°56	17° 8	11°53	7°25	0° 6	18°37	18°51	2°25	9°30	T 6
W 7	7 2 4	15°42'37	17° 0	0°7	29°38	5°35	4°48	17° 7	11°56	7°28	0° 6	18°38	18°47	2°32	9°31	W 7
T 8	7 6 1	16°43'46	29°10	1°42	0°44	5°56	4°40	17° 6	12° 0	7°30	0° 7	18°38	18°44	2°39	9°32	T 8
F 9	7 9 57	17°44'56	11°35	3°16	1°51	6°16	4°32	17° 4	12° 4	7°32	0° 7	18°38	18°41	2°45	9°33	F 9
S 10	7 13 54	18°46'04	24°20	4°49	2°58	6°36	4°25	17° 3	12° 7	7°34	0° 8	18°38	18°38	2°52	9°34	S 10
S 11	7 17 50	19°47'12	7°28	6°20	4° 5	6°56	4°17	17° 2	12°11	7°37	0° 9	18°38	18°35	2°59	9°35	S 11
M 12	7 21 47	20°48'20	21° 3	7°49	5°12	7°16	4°10	17° 2	12°14	7°39	0° 9	18°38	18°32	3° 5	9°36	M 12
T 13	7 25 44	21°49'27	5°11	9°16	6°19	7°35	4° 2	17° 1	12°18	7°41	0°10	18°38	18°28	3°12	9°38	T 13
W 14	7 29 40	22°50'33	19°34	10°40	7°27	7°53	3°55	17° 0	12°21	7°43	0°11	18°39	18°25	3°19	9°39	W 14
T 15	7 33 37	23°51'38	4°26	12° 1	8°35	8°11	3°48	17° 0	12°25	7°46	0°11	18°39	18°22	3°25	9°40	T 15
F 16	7 37 33	24°52'43	19°33	13°17	9°43	8°29	3°41	16°59	12°28	7°48	0°12	18°R39	18°19	3°32	9°42	F 16
S 17	7 41 30	25°53'48	4°48	14°29	10°51	8°47	3°34	16°59	12°32	7°50	0°13	18°39	18°16	3°38	9°43	S 17
S 18	7 45 26	26°54'51	19°59	15°36	11°59	9° 4	3°27	16°59	12°35	7°52	0°14	18°38	18°13	3°45	9°45	S 18
M 19	7 49 23	27°55'54	4°19	16°36	13° 7	9°20	3°20	16°D59	12°39	7°54	0°14	18°37	18° 9	3°52	9°46	M 19
T 20	7 53 20	28°56'57	19°38	17°29	14°16	9°36	3°13	16°59	12°42	7°56	0°15	18°36	18° 6	3°58	9°48	T 20
W 21	7 57 16	29°57'59	3°52	18°15	15°25	9°52	3° 7	16°59	12°46	7°59	0°16	18°35	18° 3	4° 5	9°49	W 21
T 22	8 1 13	0°59'01	17°40	18°51	16°34	10° 7	3° 0	16°59	12°49	8° 1	0°17	18°34	18° 0	4°12	9°51	T 22
F 23	8 5 9	2° 0'02	1°11	19°18	17°43	10°22	2°54	17° 0	12°53	8° 3	0°18	18°D34	17°57	4°18	9°53	F 23
S 24	8 9 6	3° 1'03	13°57	19°35	18°52	10°36	2°48	17° 0	12°56	8° 5	0°19	18°34	17°53	4°25	9°55	S 24
S 25	8 13 2	4° 2'03	26°33	19°R41	20° 2	10°50	2°42	17° 1	13° 0	8° 7	0°19	18°35	17°50	4°32	9°56	S 25
M 26	8 16 59	5° 3'03	8°15	19°35	21°11	11° 3	2°36	17° 1	13° 3	8° 9	0°20	18°36	17°47	4°38	9°58	M 26
T 27	8 20 55	6° 4'01	20°57	19°18	22°21	11°16	2°30	17° 2	13° 6	8°11	0°21	18°38	17°44	4°45	10° 0	T 27
W 28	8 24 52	7° 5'00	2°34	18°50	23°30	11°28	2°25	17° 3	13°10	8°13	0°22	18°39	17°41	4°52	10° 2	W 28
T 29	8 28 49	8° 5'57	14°44	18°12	24°40	11°39	2°19	17° 4	13°13	8°15	0°23	18°R40	17°38	4°58	10° 4	T 29
F 30	8 32 45	9° 6'54	26°32	17°23	25°50	11°50	2°14	17° 5	13°16	8°17	0°24	18°40	17°34	5° 5	10° 6	F 30
S 31	8 36 42	10°7'49	8°19	16°26	27°10	12°11	2°9	17° 7	13°20	8°19	0°Y25	18°38	17°31	5°12	10°Y 9	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	23s 7	24s30	1s10	24s 2	2s 9	15s33	3n 7	0n54	2n27	23n17	0s 4	14n47	2s19	23s18
F 2	23 2	22 21	0 5	23 46	2 8	15 49	3 6	0 46	2 28	23 17	0 4	14 47	2 19	23 18
S 3	22 57	19 16	1n 1	23 28	2 7	16 5	3 6	0 38	2 29	23 18	0 4	14 46	2 19	23 18
S 4	22 52	15 25	2 3	23 9	2 5	16 21	3 5	0 30	2 30	23 18	0 3	14 46	2 18	23 18
M 5	22 46	10 58	3 1	22 48	2 3	16 37	3 4	0 23	2 31	23 19	0 3	14 46	2 18	23 17
T 6	22 39	6 6	3 51	22 26	2 0	16 52	3 3	0 15	2 32	23 19	0 3	14 46	2 18	23 17
W 7	22 32	0 59	4 31	22 2	2 1	16 57	8 3	2 0	2 33	23 19	0 3	14 46	2 18	23 17
T 8	22 25	4n15	5 0	21 37	1 52	17 22	3 1	0 0	2 34	23 20	0 3	14 46	2 17	23 16
F 9	22 17	9 25	5 16	21 10	1 46	17 37	3 0	0s 7	2 35	23 20	0 3	14 46	2 17	23 16
S 10	22 9	14 21	5 17	20 42	1 41	17 51	2 58	0 14	2 36	23 21	0 3	14 46	2 17	23 16
S 11	22 0	18 45	5 1	20 13	1 34	18 5	2 57	0 21	2 37	23 21	0 2	14 46	2 16	23 15
M 12	21 51	22 21	4 29	19 43	1 27	18 19	2 55	0 28	2 38	23 22	0 2	14 46	2 16	23 15
T 13	21 42	24 46	3 40	19 13	1 18	18 32	2 53	0 34	2 39	23 22	0 2	14 46	2 16	23 15
W 14	21 32	25 38	2 35	18 41	1 9	18 45	2 51	0 40	2 40	23 22	0 2	14 46	2 16	23 14
T 15	21 21	24 42	1 18	18 9	0 59	18 58	2 49	0 47	2 42	23 23	0 2	14 46	2 15	23 14
F 16	21 10	21 57	0s 5	17 37	0 48	19 10	2 47	0 53	2 43	23 23	0 2	14 46	2 15	23 14
S 17	20 59	17 59	1 29	17 4	0 36	19 22	2 45	0 59	2 44	23 23	0 2	14 46	2 15	23 13
S 18	20 48	12 13	2 46	16 32	0 23	19 34	2 43	1 4	2 45	23 24	0 1	14 46	2 14	23 13
M 19	20 36	6 8	3 50	16 1	0 9	19 45	2 41	1 10	2 46	23 24	0 1	14 47	2 14	23 13
T 20	20 23	0s 9	4 38	15 31	0n 6	19 55	2 38	1 15	2 47	23 24	0 1	14 47	2 14	23 12
W 21	20 11	6 14	5 7	15 2	0 21	20 5	2 36	1 20	2 48	23 25	0 1	14 47	2 14	23 12
T 22	19 58	11 49	5 17	14 35	0 38	20 15	2 33	1 25	2 49	23 25	0 1	14 48	2 13	23 12
F 23	19 44	16 40	5 10	14 11	0 55	20 24	2 30	1 30	2 50	23 25	0 1	14 48	2 13	23 12
S 24	19 30	20 36	4 47	13 49	1 12	20 33	2 28	1 34	2 51	23 25	0 1	14 49	2 13	23 11
S 25	19 16	23 27	4 10	13 30	1 30	20 41	2 25	1 39	2 52	23 26	0 0	14 49	2 12	23 11
M 26	19 1	25 9	3 23	13 15	1 48	20 49	2 22	1 43	2 54	23 26	0 0	14 49	2 12	23 11
T 27	18 46	25 36	2 28	13 3	2 6	20 56	2 19	1 47	2 55	23 26	0 0	14 50	2 12	23 10
W 28	18 31	24 52	1 26	12 56	2 23	21 2	2 16	1 51	2 56	23 26	0 0	14 51	2 11	23 10
T 29	18 16	23 0	0 22	12 52	2 39	21 8	2 13	1 54	2 57	23 27	0n 0	14 51	2 11	23 10
F 30	18 0	20 9	0n43	12 53	2 54	21 14	2 10	1 57	2 58	23 27	0 0	14 52	2 11	23 9
S 31	17s43	16s29	1n46	12s57	3n 7	21s19	2n 7	2s 0	2n59	23n27	0n 0	14n52	2s11	23s 9

Julian Day Number = 2387261.5, Delta T = 14.85 sec
Ecliptic obliquity = 23°27'46, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°16'58, Lahiri = 21°23'58

ASTRODIENST EPHEMERIS for the year 1824
geocentric

FEBRUARY 1824

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 40 38	11 ⁰⁰ 8'43	20 ⁰⁰ 8	15°R22	28 ⁰⁰ 10	12 ⁰⁰ 11	2°R 4	17 ⁰⁰ 8	13 ⁰⁰ 23	8 ⁰⁰ 21	0 ⁰⁰ 26	18°R36	17 ⁰⁰ 28	5 ⁰⁰ 18	10 ⁰⁰ 11	S 1
M 2	8 44 35	12° 9'36	2 ⁰⁰ 1	14 ⁰⁰ 13	29°21	12°20	2 ⁰⁰ 0	17°10	13°26	8°23	0°27	18 ⁰⁰ 32	17°25	5°25	10°13	M 2
T 3	8 48 31	13°10'28	13°59	13° 1	0 ⁰⁰ 31	12°29	1°55	17°11	13°30	8°25	0°28	18°28	17°22	5°32	10°15	T 3
W 4	8 52 28	14°11'19	26° 4	11°48	1°42	12°37	1°51	17°13	13°33	8°27	0°30	18°24	17°19	5°38	10°18	W 4
T 5	8 56 24	15°12'08	8 ⁰⁰ 20	10°36	2°52	12°44	1°47	17°15	13°36	8°29	0°31	18°19	17°15	5°45	10°20	T 5
F 6	9 0 21	16°12'56	20°48	9°27	4° 3	12°51	1°43	17°17	13°39	8°31	0°32	18°16	17°12	5°52	10°22	F 6
S 7	9 4 18	17°13'42	3 ⁰⁰ 32	8°22	5°13	12°57	1°39	17°19	13°42	8°33	0°33	18°14	17° 9	5°58	10°25	S 7
S 8	9 8 14	18°14'27	16°34	7°24	6°24	13° 3	1°35	17°21	13°45	8°35	0°34	18°D13	17° 6	6° 5	10°27	S 8
M 9	9 12 11	19°15'10	29°58	6°32	7°35	13° 7	1°32	17°23	13°48	8°37	0°35	18°13	17° 3	6°11	10°30	M 9
T 10	9 16 7	20°15'51	13 ⁰⁰ 46	5°48	8°46	13°12	1°29	17°26	13°51	8°38	0°36	18°14	16°59	6°18	10°32	T 10
W11	9 20 4	21°16'31	27°59	5°11	9°57	13°15	1°26	17°28	13°55	8°40	0°38	18°16	16°56	6°25	10°35	W11
T 12	9 24 0	22°17'09	12 ⁰⁰ 35	4°43	11° 8	13°18	1°23	17°31	13°58	8°42	0°39	18°R17	16°53	6°31	10°38	T 12
F 13	9 27 57	23°17'46	27°31	4°23	12°19	13°20	1°20	17°33	14° 1	8°44	0°40	18°17	16°50	6°38	10°40	F 13
S 14	9 31 53	24°18'21	12 ⁰⁰ 40	4°10	13°30	13°21	1°18	17°36	14° 3	8°46	0°41	18°15	16°47	6°45	10°43	S 14
S 15	9 35 50	25°18'54	27°53	4°D 5	14°42	13°R22	1°15	17°39	14° 6	8°47	0°42	18°11	16°44	6°51	10°46	S 15
M16	9 39 47	26°19'26	13 ⁰⁰ 0	4° 7	15°53	13°22	1°13	17°42	14° 9	8°49	0°44	18° 6	16°40	6°58	10°48	M16
T 17	9 43 43	27°19'56	27°51	4°15	17° 5	13°21	1°11	17°45	14°12	8°51	0°45	18° 0	16°37	7° 5	10°51	T 17
W18	9 47 40	28°20'25	12 ⁰⁰ 19	4°30	18°16	13°20	1°10	17°48	14°15	8°52	0°46	17°54	16°34	7°11	10°54	W18
T 19	9 51 36	29°20'52	26°19	4°51	19°28	13°17	1° 8	17°52	14°18	8°54	0°48	17°48	16°31	7°18	10°57	T 19
F 20	9 55 33	0 ⁰⁰ 21'18	9 ⁰⁰ 49	5°17	20°39	13°14	1° 7	17°55	14°20	8°55	0°49	17°44	16°28	7°25	11° 0	F 20
S 21	9 59 29	1°21'43	22°52	5°48	21°51	13°11	1° 6	17°59	14°23	8°57	0°50	17°42	16°25	7°31	11° 3	S 21
S 22	10 3 26	2°22'07	5 ⁰⁰ 29	6°24	23° 3	13° 6	1° 5	18° 2	14°26	8°59	0°52	17°D42	16°21	7°38	11° 6	S 22
M23	10 7 22	3°22'29	17°46	7° 4	24°14	13° 1	1° 4	18° 6	14°29	9° 0	0°53	17°43	16°18	7°45	11° 9	M23
T 24	10 11 19	4°22'49	29°49	7°49	25°26	12°54	1° 4	18°10	14°31	9° 2	0°54	17°44	16°15	7°51	11°12	T 24
W25	10 15 16	5°23'09	11 ⁰⁰ 41	8°37	26°38	12°47	1° 4	18°14	14°34	9° 3	0°56	17°R45	16°12	7°58	11°15	W25
T 26	10 19 12	6°23'26	23°28	9°28	27°50	12°40	1°D 4	18°18	14°36	9° 5	0°57	17°45	16° 9	8° 5	11°18	T 26
F 27	10 23 9	7°23'42	5 ⁰⁰ 14	10°23	29° 2	12°31	1° 4	18°22	14°39	9° 6	0°58	17°44	16° 5	8°11	11°21	F 27
S 28	10 27 5	8°23'57	17° 3	11°20	0 ⁰⁰ 14	12°22	1° 4	18°26	14°41	9° 7	1° 0	17°39	16° 2	8°18	11°24	S 28
S 29	10 31 2	9 ⁰⁰ 24'09	28 ⁰⁰ 56	12 ⁰⁰ 20	1 ⁰⁰ 26	12 ⁰⁰ 12	1 ⁰⁰ 5	18 ⁰⁰ 30	14 ⁰⁰ 44	9 ⁰⁰ 9	1 ⁰⁰ 1	17 ⁰⁰ 33	15 ⁰⁰ 59	8 ⁰⁰ 25	11 ⁰⁰ 28	S 29

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	17s27	12s10	2n45	13s 5	3n18	21s24	2n 3	2s 3	3n 0	23n27	0n 0	14n53	2s10	23s 9	0s21	22s16	0n56	14s42	16s15	22s10	22s19	17s26	5n42	1n49	
M 2	17 10	7 24	3 37	13 16	3 28	21 27	2 0	2 6	3 1	23 27	0 1	14 54	2 10	23 8	0 21	22 16	0 56	14 42	16 15	22 11	22 20	17 23	5 43	1 49	
T 3	16 53	2 19	4 19	13 30	3 34	21 31	1 57	2 8	3 2	23 28	0 1	14 55	2 10	23 8	0 21	22 16	0 56	14 41	16 15	22 11	22 20	17 21	5 44	1 48	
W 4	16 35	2n53	4 50	13 46	3 39	21 34	1 54	2 10	3 3	23 28	0 1	14 55	2 9	23 8	0 22	22 16	0 56	14 40	16 15	22 12	22 20	17 18	5 44	1 48	
T 5	16 18	8 2	5 9	14 3	3 41	21 36	1 50	2 12	3 5	23 28	0 1	14 56	2 9	23 7	0 22	22 15	0 56	14 40	16 14	22 12	22 21	17 16	5 45	1 48	
F 6	16 0	12 58	5 13	14 22	3 40	21 37	1 47	2 14	3 6	23 28	0 1	14 57	2 9	23 7	0 22	22 15	0 56	14 39	16 14	22 13	22 21	17 14	5 46	1 48	
S 7	15 41	17 26	5 3	14 41	3 38	21 38	1 43	2 15	3 7	23 28	0 1	14 58	2 9	23 7	0 22	22 15	0 56	14 39	16 14	22 13	22 22	17 11	5 47	1 48	
S 8	15 23	21 13	4 36	15 0	3 33	21 39	1 40	2 16	3 8	23 29	0 1	14 59	2 8	23 7	0 22	22 15	0 56	14 38	16 14	22 13	22 22	17 9	5 48	1 48	
M 9	15 4	23 59	3 54	15 20	3 26	21 39	1 36	2 17	3 9	23 29	0 2	15 0	2 8	23 6	0 22	22 15	0 56	14 37	16 14	22 13	22 23	17 6	5 48	1 48	
T 10	14 45	25 25	2 58	15 38	3 18	21 38	1 33	2 18	3 10	23 29	0 2	15 0	2 8	23 6	0 22	22 15	0 56	14 37	16 13	22 13	22 23	17 4	5 49	1 47	
W11	14 25	25 16	1 49	15 56	3 9	21 36	1 29	2 18	3 11	23 29	0 2	15 1	2 7	23 6	0 22	22 15	0 56	14 36	16 13	22 13	22 23	17 1	5 50	1 47	
T 12	14 6	23 23	0 31	16 13	2 59	21 34	1 26	2 18	3 12	23 29	0 2	15 2	2 7	23 5	0 22	22 15	0 56	14 35	16 13	22 13	22 24	16 59	5 51	1 47	
F 13	13 46	19 51	0s50	16 28	2 48	21 32	1 22	2 18	3 13	23 29	0 2	15 3	2 7	23 5	0 22	22 14	0 56	14 34	16 13	22 13	22 24	16 56	5 52	1 47	
S 14	13 26	14 57	2 9	16 43	2 36	21 29	1 18	2 18	3 14	23 30	0 2	15 4	2 7	23 5	0 22	22 14	0 56	14 34	16 12	22 13	22 24	16 54	5 53	1 47	
S 15	13 6	9 6	3 19	16 56	2 24	21 25	1 15	2 17	3 15	23 30	0 2	15 6	2 6	23 4	0 22	22 14	0 56	14 33	16 12	22 14	22 25	16 52	5 54	1 47	
M16	12 45	2 46	4 15	17 7	2 11	21 20	1 11	2 16	3 16	23 30	0 2	15 7	2 6	23 4	0 22	22 14	0 56	14 32	16 12	22 14	22 25	16 49	5 55	1 47	
T 17	12 25	3s36	4 52	17 17	1 59	21 15	1 7	2 15	3 17	23 30	0 3	15 8	2 6	23 4	0 22	22 14	0 56	14 32	16 12	22 15	22 26	16 47	5 56	1 46	
W18	12 4	9 37	5 9	17 26	1 46	21 10	1 4	2 14	3 18	23 30	0 3	15 9	2 5	23 4	0 22	22 14	0 56	14 31	16 12	22 16	22 26	16 44	5 57	1 46	
T 19	11 43	14 56	5 7	17 34	1 34	21 4	1 0	2 12	3 18	23 30	0 3	15 10	2 5	23 3	0 22	22 14	0 56	14 30	16 12	22 17	22 26	16 42	5 58	1 46	
F 20	11 21	19 19	4 48	17 39	1 21	20 57	0 56	2 10	3 19	23 30	0 3	15 11	2 5	23 3	0 22	22 14	0 56	14 30	16 11	22 17	22 27	16 39	5 59	1 46	
S 21	11 0	22 36	4 14	17 44	1 9	20 49	0 53	2 8	3 20	23 31	0 3	15 13	2 5	23 3	0 22	22 13	0 56	14 29	16 11	22 17	22 27	16 37	6 0	1 46	
S 22	10 38	24 40	3 29	17 47	0 57	20 41	0 49	2 6	3 21	23 31	0 3	15 14	2 4	23 3	0 22	22 13	0 56	14 28	16 11	22 17	22 28	16 34	6 1	1 46	
M23	10 17	25 29	2 35	17 48	0 45	20 33	0 45	2 3	3 22	23 31	0 3	15 15	2 4	23 2	0 22	22 13	0 56	14 28	16 11	22 17	22 28	16 32	6 2	1 46	
T 24	9 55	25 3	1 36	17 48	0 33	20 23	0 42	2 0	3 22	23 31	0 3	15 16	2 4	23 2	0 22	22 13	0 56	14 27	16 11	22 17	22 28	16 29	6 3	1 46	
W25	9 33	23 30	0 33	17 46	0 22	20 13	0 38	1 56	3 23	23 31	0 4	15 18	2 4	23 2	0 22	22 13	0 56	14 26	16 11	22 17	22 29	16 27	6 4	1 45	
T 26	9 11	20 55	0n31	17 44	0 11	20 3	0 35	1 53	3 24	23 31	0 4	15 19	2 3	23 2	0 22	22 13	0 56	14 26	16 10	22 17	22 29	16 24	6 5	1 45	
F 27	8 48	17 28	1 33	17 39	0 0	19 52	0 31	1 49	3 24	23 31	0 4	15 20	2 3	23 1	0 22	22 13	0 56	14 25	16 10	22 17	22 30	16 22	6 6	1 45	
S 28	8 26	13 20	2 31	17 33	0s10	19 41	0 27	1 45	3 25	23 31	0 4	15 22	2 3	23 1	0 22	22 13	0 56	14 24	16 10	22 18	22 30	16 19	6 8	1 45	
S 29	8s 3	8s41	3n23	17s26	0s20	19s28	0n24	1s40	3n25	23n31	0n 4	15n23	2s 3	23s 1	0s22	22s13	0n56	14s24	16s10	22s19	22s30	16s17	6n 9	1n45	

Julian Day Number = 2387292.5, Delta T = 14.80 sec
Ecliptic obliquity = 23°27'47, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°17'02, Lahiri = 21°24'03

ASTRODIENST EPHEMERIS for the year 1824

geocentric

APRIL 1824

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 37 11	11°13'12	27°12'20	29°42'42	10°18' 7	1°R51	3°00' 0	21°18'26	15°33'39	9°33'36	1°V48	14°R11	14°31'17	11°38'58	13°V19	T 1
F 2	12 41 8	12°12'20	10°18'20	1°V34	11°20	1°A28	3° 6	21°33	15°40	9°36	1°50	13°359	14°14	12° 4	13°23	F 2
S 3	12 45 5	13°11'25	23°30	3°28	12°33	1° 6	3°12	21°39	15°41	9°37	1°51	13°50	14°11	12°11	13°26	S 3
S 4	12 49 1	14°10'28	6°11'52	5°23	13°46	0°44	3°19	21°46	15°41	9°37	1°53	13°44	14° 8	12°18	13°30	S 4
M 5	12 52 58	15° 9'28	20°24	7°19	14°59	0°22	3°26	21°53	15°42	9°37	1°54	13°40	14° 5	12°24	13°34	M 5
T 6	12 56 54	16° 8'27	4°45 7	9°16	16°12	0° 1	3°33	22° 0	15°43	9°37	1°56	13°39	14° 2	12°31	13°37	T 6
W 7	13 0 51	17° 7'23	18° 1	11°16	17°25	29°140	3°40	22° 6	15°44	9°38	1°57	13°39	13°58	12°38	13°41	W 7
T 8	13 4 47	18° 6'16	2°12 7	13°16	18°38	29°20	3°47	22°13	15°44	9°38	1°58	13°39	13°55	12°44	13°44	T 8
F 9	13 8 44	19° 5'08	16°25	15°17	19°51	29° 0	3°55	22°20	15°45	9°38	2° 0	13°37	13°52	12°51	13°48	F 9
S 10	13 12 40	20° 3'57	0°11 51	17°20	21° 4	28°41	4° 2	22°27	15°45	9°38	2° 1	13°33	13°49	12°58	13°52	S 10
S 11	13 16 37	21° 2'43	15°22	19°24	22°17	28°22	4°10	22°34	15°46	9°R38	2° 3	13°25	13°46	13° 4	13°55	S 11
M12	13 20 34	22° 1'28	29°53	21°29	23°30	28° 4	4°18	22°41	15°46	9°38	2° 4	13°16	13°42	13°11	13°59	M12
T 13	13 24 30	23° 0'10	14°11 17	23°35	24°43	27°47	4°26	22°48	15°47	9°38	2° 6	13° 5	13°39	13°18	14° 3	T 13
W14	13 28 27	23°58'50	28°28	25°41	25°56	27°30	4°34	22°55	15°47	9°38	2° 7	12°53	13°36	13°24	14° 6	W14
T 15	13 32 23	24°57'29	12°11 20	27°48	27° 9	27°14	4°42	23° 2	15°47	9°38	2° 8	12°42	13°33	13°31	14°10	T 15
F 16	13 36 20	25°56'05	25°49	29°55	28°22	26°58	4°50	23°10	15°48	9°37	2°10	12°33	13°30	13°38	14°13	F 16
S 17	13 40 16	26°54'40	8°17 55	2°18 3	29°35	26°43	4°59	23°17	15°48	9°37	2°11	12°26	13°27	13°44	14°17	S 17
S 18	13 44 13	27°53'13	21°37	4°10	0°V48	26°29	5° 7	23°24	15°48	9°37	2°13	12°22	13°23	13°51	14°21	S 18
M19	13 48 9	28°51'45	4°13 0	6°16	2° 1	26°16	5°16	23°31	15°48	9°37	2°14	12°20	13°20	13°58	14°24	M19
T 20	13 52 6	29°50'15	16° 6	8°22	3°14	26° 3	5°25	23°39	15°R48	9°37	2°15	12°D20	13°17	14° 4	14°28	T 20
W21	13 56 3	0°18'48'43	28° 1	10°26	4°27	25°52	5°34	23°46	15°48	9°36	2°17	12°R21	13°14	14°11	14°31	W21
T 22	13 59 59	1°47'09	9°11 51	12°30	5°40	25°40	5°43	23°53	15°48	9°36	2°18	12°20	13°11	14°18	14°35	T 22
F 23	14 3 56	2°45'34	21°41	14°31	6°53	25°30	5°52	24° 1	15°48	9°36	2°19	12°18	13° 7	14°24	14°38	F 23
S 24	14 7 52	3°43'58	3°11 35	16°30	8° 6	25°21	6° 1	24° 8	15°48	9°35	2°21	12°15	13° 4	14°31	14°42	S 24
S 25	14 11 49	4°42'19	15°39	18°27	9°19	25°12	6°11	24°16	15°47	9°35	2°22	12° 8	13° 1	14°38	14°45	S 25
M26	14 15 45	5°40'39	27°55	20°21	10°32	25° 4	6°20	24°23	15°47	9°34	2°23	11°59	12°58	14°44	14°49	M26
T 27	14 19 42	6°38'57	10°V27	22°12	11°45	24°57	6°30	24°31	15°47	9°34	2°24	11°49	12°55	14°51	14°52	T 27
W28	14 23 38	7°37'14	23°16	24° 1	12°58	24°50	6°39	24°38	15°46	9°33	2°26	11°38	12°52	14°58	14°56	W28
T 29	14 27 35	8°35'29	6°18 22	25°45	14°11	24°45	6°49	24°46	15°46	9°33	2°27	11°27	12°48	15° 4	14°59	T 29
F 30	14 31 31	9°18'33'42	19°18 43	27°18 27	15°V24	24°140	6°59	24°53	15°345	9°332	2°V28	11°17	12°345	15°11	15°V 2	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	decl	lat
T 1	4n27	15n 5	4n52	1s59	2s 2	8s51	1s 9	2n 5	3n 5	23n33	0n 7	16n17	1s56	22s55	0s23	22s10	0n57	14s 4	16s 9	22s42	22s42	14s55	6n50	1n42			
F 2	4 50	19 11	4 29	1 11	1 58	8 25	1 11	2 12	3 3	23 33	0 7	16 19	1 55	22 55	0 23	22 10	0 57	14 4	16 9	22 44	22 42	14 53	6 51	1 42			
S 3	5 13	22 24	3 52	0 21	1 53	7 59	1 13	2 19	3 1	23 33	0 7	16 20	1 55	22 55	0 23	22 10	0 57	14 3	16 9	22 45	22 42	14 50	6 52	1 42			
S 4	5 36	24 27	3 1	0n30	1 47	7 33	1 15	2 26	2 58	23 33	0 7	16 22	1 55	22 55	0 23	22 10	0 57	14 3	16 9	22 45	22 43	14 47	6 54	1 42			
M 5	5 59	25 6	2 0	1 21	1 42	7 6	1 17	2 33	2 56	23 33	0 8	16 24	1 55	22 55	0 23	22 10	0 57	14 2	16 9	22 46	22 43	14 45	6 55	1 42			
T 6	6 21	24 14	0 50	2 13	1 35	6 39	1 19	2 39	2 54	23 33	0 8	16 26	1 55	22 55	0 23	22 10	0 57	14 2	16 9	22 46	22 43	14 42	6 56	1 42			
W 7	6 44	21 52	0s23	3 6	1 28	6 12	1 20	2 45	2 52	23 32	0 8	16 28	1 55	22 55	0 23	22 10	0 57	14 1	16 10	22 46	22 44	14 40	6 58	1 41			
T 8	7 6	18 9	1 36	4 0	1 21	5 45	1 22	2 51	2 50	23 32	0 8	16 30	1 54	22 55	0 23	22 10	0 57	14 1	16 10	22 46	22 44	14 37	6 59	1 41			
F 9	7 29	13 20	2 44	4 54	1 13	5 18	1 23	2 57	2 47	23 32	0 8	16 32	1 54	22 55	0 23	22 10	0 57	14 0	16 10	22 46	22 44	14 34	7 0	1 41			
S 10	7 51	7 43	3 42	5 49	1 5	4 51	1 25	3 3	2 45	23 32	0 8	16 34	1 54	22 55	0 23	22 10	0 57	14 0	16 10	22 46	22 45	14 32	7 2	1 41			
S 11	8 13	1 41	4 26	6 44	0 56	4 23	1 26	3 8	2 42	23 32	0 8	16 36	1 54	22 55	0 23	22 10	0 57	13 59	16 10	22 47	22 45	14 29	7 3	1 41			
M12	8 35	4s26	4 53	7 40	0 47	3 55	1 27	3 13	2 40	23 32	0 8	16 38	1 54	22 55	0 23	22 10	0 57	13 59	16 10	22 48	22 45	14 27	7 4	1 41			
T 13	8 57	10 15	5 1	8 36	0 37	3 27	1 28	3 17	2 37	23 32	0 8	16 39	1 54	22 55	0 23	22 10	0 57	13 59	16 10	22 49	22 46	14 24	7 6	1 41			
W14	9 19	15 27	4 50	9 31	0 27	2 59	1 30	3 22	2 35	23 31	0 8	16 41	1 54	22 55	0 23	22 10	0 57	13 58	16 10	22 50	22 46	14 21	7 7	1 41			
T 15	9 40	19 42	4 22	10 26	0 17	2 31	1 31	3 26	2 32	23 31	0 8	16 43	1 53	22 55	0 23	22 10	0 57	13 58	16 11	22 51	22 46	14 19	7 8	1 41			
F 16	10 2	22 48	3 40	11 21	0 6	2 3	1 32	3 30	2 30	23 31	0 9	16 45	1 53	22 55	0 23	22 9	0 57	13 57	16 11	22 52	22 47	14 16	7 10	1 41			
S 17	10 23	24 34	2 47	12 16	0n 4	1 35	1 32	3 33	2 27	23 31	0 9	16 47	1 53	22 55	0 23	22 9	0 57	13 57	16 11	22 53	22 47	14 14	7 11	1 41			
S 18	10 44	24 59	1 48	13 10	0 15	1 7	1 33	3 36	2 24	23 31	0 9	16 49	1 53	22 55	0 23	22 9	0 58	13 56	16 11	22 53	22 47	14 11	7 13	1 41			
M19	11 5	24 8	0 44	14 2	0 26	0 38	1 34	3 39	2 22	23 30	0 9	16 51	1 53	22 55	0 23	22 9	0 58	13 56	16 11	22 53	22 48	14 8	7 14	1 41			
T 20	11 26	22 10	0n20	14 53	0 37	0 10	1 35	3 42	2 19	23 30	0 9	16 53	1 53	22 55	0 23	22 9	0 58	13 56	16 11	22 53	22 48	14 6	7 15	1 41			
W21	11 46	19 14	1 22	15 43	0 48	0n19	1 35	3 44	2 16	23 30	0 9	16 55	1 53	22 55	0 23	22 9	0 58	13 55	16 11	22 53	22 48	14 3	7 17	1 41			
T 22	12 6	15 32	2 21	16 32	0 58	0 47	1 36	3 46	2 14	23 29	0 9	16 57	1 52	22 55	0 23	22 9	0 58	13 55	16 12	22 53	22 49	14 0	7 18	1 41			
F 23	12 27	11 15	3 13	17 18	1 9	1 16	1 36	3 48	2 11	23 29	0 9	16 59	1 52	22 55	0 23	22 9	0 58	13 55	16 12	22 54	22 49	13 58	7 19	1 41			
S 24	12 46	6 31	3 57	18 3	1 19	1 44	1 37	3 49	2 8	23 29	0 9	17 1	1 52	22 55	0 23	22 9	0 58	13 54	16 12	22 54	22 49	13 55	7 20	1 41			
S 25	13 6	1 29	4 32	18 45	1 28	2 13	1 37	3 50	2 6	23 28	0 9	17 3	1 52	22 55	0 23	22 9	0 58	13 54	16 12	22 54	22 50	13 53	7 22	1 41			
M26	13 26	3n40	4 54	19 25	1 38	2 41	1 37	3 51	2 3	23 28	0 9	17 5	1 52	22 55	0 24	22 9	0 58	13 54	16 12	22 55	22 50	13 50	7 23	1 40			
T 27	13 45	8 47	5 3	20 3	1 46	3 10	1 37	3 51	2 0	23 28	0 9	17 6	1 52	22 55	0 24	22 10	0 58	13 53	16 13	22 56	22 50	13 47	7 24	1 40			
W28	14 4	13 38	4 57	20 38	1 54	3 38	1 37	3 51	1 58	23 27	0 10	17 8	1 52	22 55	0 24	22 10	0 58	13 53	16 13	22 57	22 50	13 45	7 26	1 40			
T 29	14 23	17 59	4 35	21 11	2 2	4 6	1 37	3 51	1 55	23 27	0 10	17 10	1 52	22 55	0 24	22 10	0 58	13 53	16 13	22 58	22 51	13 42	7 27	1 40			
F 30	14n41	21n30	3n58	21n41	2n 8	4n35	1s37	3n50	1n52	23n26	0n10	17n12	1s52	22s55	0s24	22s10	0n58	13s52	16s13	22s59	22s51	13s39	7n28	1n40			

ASTRODIENST EPHEMERIS for the year 1824
geocentric

MAY 1824

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 35 28	10 ⁸ 31'54	3 ^{II} 16	29 ⁸ 5	16 ^Y 37	24°R36	7 ⁵ 9	25 ⁸ 1	15°R45	9°R32	2 ^Y 29	11°R10	12 ³ 42	15 ³ 18	15 ^Y 6	S 1
S 2	14 39 25	11°30'04	17° 1	0 ^{II} 39	17°51	24 ^{II} 33	7°19	25° 9	15 ³ 44	9 ³ 31	2°31	11 ³ 5	12°39	15°24	15° 9	S 2
M 3	14 43 21	12°28'12	0 ⁵ 54	2° 9	19° 4	24°31	7°29	25°16	15°44	9°30	2°32	11° 2	12°36	15°31	15°12	M 3
T 4	14 47 18	13°26'18	14°53	3°35	20°17	24°29	7°40	25°24	15°43	9°29	2°33	11°D 2	12°33	15°38	15°16	T 4
W 5	14 51 14	14°24'22	28°57	4°57	21°30	24°28	7°50	25°32	15°42	9°29	2°34	11° 3	12°29	15°44	15°19	W 5
T 6	14 55 11	15°22'24	13 ³ 4	6°16	22°43	24°D28	8° 1	25°39	15°42	9°28	2°35	11°R 3	12°26	15°51	15°22	T 6
F 7	14 59 7	16°20'24	27°14	7°30	23°56	24°29	8°11	25°47	15°41	9°27	2°37	11° 3	12°23	15°58	15°26	F 7
S 8	15 3 4	17°18'22	11 ^{II} 24	8°39	25° 9	24°30	8°22	25°55	15°40	9°26	2°38	11° 0	12°20	16° 4	15°29	S 8
S 9	15 7 0	18°16'18	25°34	9°45	26°22	24°33	8°33	26° 2	15°39	9°26	2°39	10°56	12°17	16°11	15°32	S 9
M10	15 10 57	19°14'13	9 ² 38	10°46	27°36	24°36	8°43	26°10	15°38	9°25	2°40	10°49	12°13	16°18	15°35	M10
T 11	15 14 54	20°12'06	23°35	11°43	28°49	24°39	8°54	26°18	15°37	9°24	2°41	10°42	12°10	16°24	15°38	T 11
W12	15 18 50	21° 9'57	7 ^{II} 20	12°35	0 ⁸ 2	24°44	9° 5	26°26	15°36	9°23	2°42	10°33	12° 7	16°31	15°41	W12
T 13	15 22 47	22° 7'46	20°50	13°23	1°15	24°49	9°16	26°33	15°35	9°22	2°43	10°26	12° 4	16°38	15°44	T 13
F 14	15 26 43	23° 5'34	4 ² 3	14° 6	2°28	24°55	9°27	26°41	15°34	9°21	2°44	10°19	12° 1	16°44	15°48	F 14
S 15	15 30 40	24° 3'21	16°57	14°44	3°41	25° 1	9°39	26°49	15°33	9°20	2°45	10°15	11°58	16°51	15°51	S 15
S 16	15 34 36	25° 1'07	29°32	15°18	4°54	25° 8	9°50	26°57	15°31	9°19	2°46	10°12	11°54	16°58	15°54	S 16
M17	15 38 33	25°58'51	11 ³ 51	15°47	6° 7	25°16	10° 1	27° 4	15°30	9°18	2°47	10°D12	11°51	17° 4	15°57	M17
T 18	15 42 30	26°56'34	23°57	16°11	7°21	25°24	10°13	27°12	15°29	9°17	2°48	10°13	11°48	17°11	15°59	T 18
W19	15 46 26	27°54'16	5 ³ 53	16°30	8°34	25°33	10°24	27°20	15°28	9°16	2°49	10°14	11°45	17°18	16° 2	W19
T 20	15 50 23	28°51'57	17°44	16°45	9°47	25°43	10°36	27°28	15°26	9°15	2°50	10°15	11°42	17°24	16° 5	T 20
F 21	15 54 19	29°49'37	29°34	16°54	11° 0	25°53	10°48	27°35	15°25	9°14	2°51	10°R16	11°39	17°31	16° 8	F 21
S 22	15 58 16	0 ^{II} 47'15	11 ³ 30	16°59	12°13	26° 4	10°59	27°43	15°23	9°12	2°52	10°15	11°35	17°38	16°11	S 22
S 23	16 2 12	1°44'53	23°36	16°R59	13°27	26°16	11°11	27°51	15°22	9°11	2°53	10°13	11°32	17°44	16°14	S 23
M24	16 6 9	2°42'30	5 ^Y 56	16°55	14°40	26°28	11°23	27°59	15°20	9°10	2°54	10° 9	11°29	17°51	16°17	M24
T 25	16 10 5	3°40'06	18°34	16°46	15°53	26°40	11°35	28° 6	15°19	9° 9	2°54	10° 4	11°26	17°58	16°19	T 25
W26	16 14 2	4°37'41	1 ⁸ 31	16°33	17° 6	26°53	11°47	28°14	15°17	9° 7	2°55	9°59	11°23	18° 4	16°22	W26
T 27	16 17 58	5°35'14	14°50	16°17	18°19	27° 7	11°59	28°22	15°15	9° 6	2°56	9°53	11°19	18°11	16°25	T 27
F 28	16 21 55	6°32'47	28°28	15°56	19°33	27°21	12°11	28°30	15°14	9° 5	2°57	9°48	11°16	18°18	16°27	F 28
S 29	16 25 52	7°30'19	12 ^{II} 24	15°32	20°46	27°36	12°23	28°37	15°12	9° 4	2°58	9°44	11°13	18°24	16°30	S 29
S 30	16 29 48	8°27'50	26°34	15° 5	21°59	27°52	12°35	28°45	15°10	9° 2	2°58	9°42	11°10	18°31	16°32	S 30
M31	16 33 45	9 ^{II} 25'20	10 ⁵ 53	14 ^{II} 36	23 ⁸ 12	28 ^{II} 8	12°548	28 ⁸ 53	15° 8	9 ³ 1	2 ^Y 59	9°D42	11 ³ 7	18 ³ 38	16 ^Y 35	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	15n 0	23n54	3n 7	22n 9	2n14	5n 3	1s37	3n49	1n50	23n26	0n10	17n14	1s51	22s55	0s24	22s10
S 2	15 18	24 54	2 5	22 35	2 19	5 31	1 37	3 48	1 47	23 25	0 10	17 16	1 51	22 56	0 24	22 10
M 3	15 36	24 22	0 54	22 57	2 24	5 59	1 37	3 47	1 44	23 25	0 10	17 18	1 51	22 56	0 24	22 10
T 4	15 53	23 17	0s21	23 18	2 27	6 27	1 36	3 45	1 42	23 24	0 10	17 20	1 51	22 56	0 24	22 10
W 5	16 11	18 51	1 35	23 36	2 30	6 55	1 36	3 43	1 39	23 24	0 10	17 22	1 51	22 56	0 24	22 10
T 6	16 28	14 18	2 43	23 52	2 31	7 22	1 35	3 41	1 37	23 23	0 10	17 24	1 51	22 56	0 24	22 10
F 7	16 44	8 58	3 42	24 5	2 32	7 50	1 35	3 38	1 34	23 23	0 10	17 26	1 51	22 56	0 24	22 10
S 8	17 1	3 11	4 27	24 16	2 32	8 17	1 34	3 35	1 32	23 22	0 10	17 27	1 51	22 56	0 24	22 10
S 9	17 17	2s45	4 56	24 25	2 31	8 44	1 33	3 32	1 29	23 22	0 10	17 29	1 51	22 56	0 24	22 10
M10	17 33	8 31	5 6	24 32	2 29	9 11	1 33	3 29	1 27	23 21	0 10	17 31	1 51	22 56	0 24	22 10
T 11	17 49	13 47	4 59	24 37	2 26	9 38	1 32	3 25	1 24	23 20	0 11	17 33	1 51	22 57	0 24	22 10
W12	18 4	18 17	4 34	24 40	2 21	10 4	1 31	3 21	1 22	23 20	0 11	17 35	1 51	22 57	0 24	22 10
T 13	18 19	21 45	3 54	24 41	2 16	10 31	1 30	3 17	1 20	23 19	0 11	17 37	1 51	22 57	0 24	22 10
F 14	18 34	23 58	3 2	24 40	2 10	10 57	1 29	3 12	1 17	23 18	0 11	17 39	1 50	22 57	0 24	22 10
S 15	18 48	24 51	2 2	24 38	2 3	11 23	1 28	3 8	1 15	23 18	0 11	17 40	1 50	22 57	0 24	22 10
S 16	19 2	24 25	0 57	24 33	1 55	11 48	1 27	3 3	1 13	23 17	0 11	17 42	1 50	22 57	0 24	22 10
M17	19 16	22 47	0n 9	24 27	1 46	12 14	1 26	2 58	1 10	23 16	0 11	17 44	1 50	22 58	0 24	22 10
T 18	19 30	20 8	1 14	24 20	1 36	12 39	1 24	2 52	1 8	23 15	0 11	17 46	1 50	22 58	0 24	22 10
W19	19 43	16 39	2 15	24 11	1 25	13 4	1 23	2 47	1 6	23 14	0 11	17 48	1 50	22 58	0 24	22 10
T 20	19 56	12 31	3 10	24 0	1 13	13 28	1 22	2 41	1 4	23 14	0 11	17 49	1 50	22 58	0 24	22 10
F 21	20 8	7 57	3 56	23 48	1 0	13 52	1 20	2 35	1 1	23 13	0 11	17 51	1 50	22 58	0 24	22 11
S 22	20 20	3 3	4 33	23 35	0 46	14 16	1 19	2 28	0 59	23 12	0 11	17 53	1 50	22 58	0 24	22 11
S 23	20 32	2n 1	4 58	23 21	0 31	14 40	1 17	2 22	0 57	23 11	0 12	17 55	1 50	22 59	0 24	22 11
M24	20 43	7 6	5 10	23 5	0 16	15 3	1 16	2 15	0 55	23 10	0 12	17 57	1 50	22 59	0 24	22 11
T 25	20 54	12 1	5 8	22 48	0s 0	15 26	1 14	2 8	0 53	23 9	0 12	17 58	1 50	22 59	0 24	22 11
W26	21 5	16 32	4 49	22 31	0 17	15 48	1 13	2 1	0 51	23 8	0 12	18 0	1 50	22 59	0 24	22 11
T 27	21 15	20 22	4 15	22 12	0 33	16 10	1 11	1 54	0 49	23 7	0 12	18 2	1 50	22 59	0 24	22 11
F 28	21 25	23 11	3 26	21 53	0 51	16 32	1 9	1 46	0 47	23 6	0 12	18 4	1 50	23 0	0 24	22 11
S 29	21 35	24 41	2 24	21 33	1 8	16 53	1 7	1 39	0 45	23 5	0 12	18 5	1 50	23 0	0 24	22 11
S 30	21 44	24 36	1 11	21 13	1 26	17 14	1 5	1 31	0 43	23 4	0 12	18 7	1 50	23 0	0 24	22 11
M31	21n53	22n55	0s 6	20n52	1s43	17n34	1s 4	1n23	0n41	23n 3	0n12	18n 9	1s50	23s 0	0s24	22s11

Julian Day Number = 2387382.5, Delta T = 14.64 sec
Ecliptic obliquity = 23°27'46, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°17'15, Lahiri = 21°24'15

ASTRODIENST EPHEMERIS for the year 1824
geocentric

JUNE 1824

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 41	10 ^{II} 22'49	25 [☾] 16	14°R 5	24 [♂] 26	28 [♂] 24	13 [☾] 0	29 [♂] 0	15°R 7	9°R 0	3 [♂] 0	9 [♂] 42	11 [♂] 4	18 [♂] 44	16 [♂] 37	T 1
W 2	16 41 38	11°20'16	9 [♂] 40	13 ^{II} 33	25°39	28°41	13°12	29° 8	15 [♂] 5	8 [♂] 58	3° 1	9°44	11° 0	18°51	16°40	W 2
T 3	16 45 34	12°17'43	24° 0	13° 0	26°52	28°58	13°25	29°16	15° 3	8°57	3° 1	9°45	10°57	18°58	16°42	T 3
F 4	16 49 31	13°15'07	8 [♂] 14	12°26	28° 6	29°16	13°37	29°23	15° 1	8°55	3° 2	9°R46	10°54	19° 4	16°44	F 4
S 5	16 53 28	14°12'31	22°20	11°53	29°19	29°34	13°50	29°31	14°59	8°54	3° 2	9°46	10°51	19°11	16°47	S 5
S 6	16 57 24	15° 9'54	6 [♂] 16	11°20	0 ^{II} 32	29°53	14° 2	29°39	14°57	8°53	3° 3	9°44	10°48	19°18	16°49	S 6
M 7	17 1 21	16° 7'15	20° 1	10°49	1°45	0 [♂] 12	14°15	29°46	14°55	8°51	3° 4	9°42	10°45	19°24	16°51	M 7
T 8	17 5 17	17° 4'35	3 ^{II} 33	10°20	2°59	0°32	14°27	29°54	14°53	8°50	3° 4	9°39	10°41	19°31	16°53	T 8
W 9	17 9 14	18° 1'55	16°52	9°54	4°12	0°52	14°40	0 ^{II} 1	14°51	8°48	3° 5	9°36	10°38	19°38	16°56	W 9
T 10	17 13 10	18°59'14	29°58	9°30	5°25	1°12	14°53	0° 9	14°49	8°47	3° 5	9°33	10°35	19°44	16°58	T 10
F 11	17 17 7	19°56'32	12 [♂] 49	9°10	6°39	1°33	15° 6	0°16	14°47	8°45	3° 6	9°31	10°32	19°51	17° 0	F 11
S 12	17 21 3	20°53'49	25°25	8°53	7°52	1°55	15°18	0°24	14°45	8°44	3° 6	9°29	10°29	19°58	17° 2	S 12
S 13	17 25 0	21°51'05	7 [♂] 39	8°40	9° 5	2°16	15°31	0°31	14°43	8°42	3° 7	9°D29	10°25	20° 4	17° 4	S 13
M14	17 28 57	22°48'21	20° 0	8°32	10°19	2°38	15°44	0°38	14°40	8°41	3° 7	9°29	10°22	20°11	17° 6	M14
T 15	17 32 53	23°45'37	2 [♂] 1	8°D27	11°32	3° 1	15°57	0°46	14°38	8°39	3° 8	9°30	10°19	20°18	17° 7	T 15
W16	17 36 50	24°42'52	13°55	8°27	12°45	3°24	16°10	0°53	14°36	8°38	3° 8	9°31	10°16	20°25	17° 9	W16
T 17	17 40 46	25°40'07	25°46	8°32	13°59	3°47	16°23	1° 1	14°34	8°36	3° 8	9°32	10°13	20°31	17°11	T 17
F 18	17 44 43	26°37'22	7 [♂] 37	8°41	15°12	4°10	16°36	1° 8	14°31	8°34	3° 9	9°34	10°10	20°38	17°13	F 18
S 19	17 48 39	27°34'36	19°32	8°55	16°26	4°34	16°49	1°15	14°29	8°33	3° 9	9°34	10° 6	20°45	17°15	S 19
S 20	17 52 36	28°31'50	1 [♂] 38	9°14	17°39	4°58	17° 2	1°22	14°27	8°31	3° 9	9°R34	10° 3	20°51	17°16	S 20
M21	17 56 32	29°29'04	13°57	9°38	18°52	5°23	17°15	1°29	14°25	8°30	3°10	9°34	10° 0	20°58	17°18	M21
T 22	18 0 29	0 [♂] 26'18	26°35	10° 6	20° 6	5°48	17°28	1°37	14°22	8°28	3°10	9°33	9°57	21° 5	17°19	T 22
W23	18 4 26	1°23'32	9 [♂] 34	10°38	21°19	6°13	17°41	1°44	14°20	8°26	3°10	9°32	9°54	21°11	17°21	W23
T 24	18 8 22	2°20'46	22°57	11°15	22°33	6°38	17°55	1°51	14°18	8°25	3°10	9°31	9°51	21°18	17°22	T 24
F 25	18 12 19	3°18'00	6 ^{II} 44	11°57	23°46	7° 4	18° 8	1°58	14°15	8°23	3°11	9°31	9°47	21°25	17°24	F 25
S 26	18 16 15	4°15'14	20°54	12°43	25° 0	7°31	18°21	2° 5	14°13	8°22	3°11	9°30	9°44	21°31	17°25	S 26
S 27	18 20 12	5°12'28	5 [♂] 23	13°33	26°13	7°57	18°34	2°12	14°11	8°20	3°11	9°D30	9°41	21°38	17°26	S 27
M28	18 24 8	6° 9'41	20° 5	14°28	27°27	8°24	18°48	2°19	14° 8	8°18	3°11	9°30	9°38	21°45	17°28	M28
T 29	18 28 5	7° 6'55	4 [♂] 54	15°27	28°41	8°51	19° 1	2°26	14° 6	8°17	3°11	9°30	9°35	21°51	17°29	T 29
W30	18 32 1	8 [♂] 4'08	19 [♂] 42	16 ^{II} 30	29 ^{II} 54	9 [♂] 18	19 [♂] 14	2 ^{II} 33	14 [♂] 3	8 [♂] 15	3 [♂] 11	9 [♂] 30	9 [♂] 31	21 [♂] 58	17 [♂] 30	W30

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	22n 2	19n43	1s24	20n32	2s 0	17n54	1s 2	1n14	0n39	23n 2	0n12	18n10	1s50	23s 1	0s24	22s11	0n58	13s48	16s22	23s 6	23s 0	12s14	8n 5	1n40	
W 2	22 10	15 19	2 37	20 11	2 17	18 14	1 0	1 6	0 37	23 1	0 12	18 12	1 50	23 1	0 24	22 11	0 58	13 48	16 23	23 6	23 0	12 11	8 6	1 40	
T 3	22 17	10 5	3 40	19 51	2 33	18 33	0 58	0 57	0 36	22 59	0 12	18 14	1 50	23 1	0 24	22 12	0 58	13 48	16 23	23 6	23 1	12 8	8 6	1 40	
F 4	22 25	4 21	4 28	19 32	2 48	18 51	0 56	0 48	0 34	22 58	0 12	18 15	1 50	23 1	0 24	22 12	0 58	13 48	16 23	23 6	23 1	12 5	8 7	1 40	
S 5	22 32	1s33	5 0	19 13	3 2	19 9	0 54	0 40	0 32	22 57	0 13	18 17	1 50	23 2	0 25	22 12	0 58	13 48	16 24	23 6	23 1	12 3	8 8	1 40	
S 6	22 38	7 17	5 14	18 56	3 16	19 27	0 51	0 30	0 30	22 56	0 13	18 18	1 50	23 2	0 25	22 12	0 58	13 49	16 24	23 6	23 1	12 0	8 9	1 40	
M 7	22 44	12 36	5 9	18 39	3 28	19 44	0 49	0 21	0 28	22 55	0 13	18 20	1 50	23 2	0 25	22 12	0 58	13 49	16 24	23 6	23 2	11 57	8 10	1 40	
T 8	22 50	17 13	4 47	18 24	3 39	20 0	0 47	0 12	0 27	22 53	0 13	18 22	1 50	23 2	0 25	22 12	0 58	13 49	16 25	23 7	23 2	11 55	8 11	1 40	
W 9	22 55	20 53	4 10	18 11	3 49	20 16	0 45	0 2	0 25	22 52	0 13	18 23	1 50	23 2	0 25	22 12	0 58	13 49	16 25	23 7	23 2	11 52	8 12	1 40	
T 10	23 0	23 26	3 21	17 59	3 58	20 32	0 43	0s 7	0 23	22 51	0 13	18 25	1 50	23 3	0 25	22 12	0 58	13 49	16 26	23 7	23 2	11 49	8 12	1 40	
F 11	23 5	24 42	2 22	17 49	4 5	20 47	0 40	0 17	0 22	22 49	0 13	18 26	1 50	23 3	0 25	22 12	0 58	13 49	16 26	23 7	23 3	11 46	8 13	1 40	
S 12	23 9	24 40	1 17	17 40	4 11	21 1	0 38	0 27	0 20	22 48	0 13	18 28	1 50	23 3	0 25	22 12	0 58	13 49	16 26	23 7	23 3	11 44	8 14	1 40	
S 13	23 13	23 23	0 9	17 34	4 15	21 15	0 36	0 37	0 18	22 47	0 13	18 29	1 50	23 3	0 25	22 12	0 58	13 49	16 27	23 7	23 3	11 41	8 15	1 40	
M14	23 16	21 1	0n58	17 30	4 18	21 28	0 34	0 48	0 17	22 45	0 13	18 31	1 50	23 4	0 25	22 13	0 58	13 50	16 27	23 7	23 3	11 38	8 16	1 40	
T 15	23 19	17 45	2 1	17 27	4 20	21 40	0 31	0 58	0 15	22 44	0 13	18 32	1 50	23 4	0 25	22 13	0 58	13 50	16 27	23 7	23 4	11 35	8 16	1 40	
W16	23 21	13 48	2 59	17 26	4 21	21 52	0 29	1 8	0 14	22 42	0 13	18 34	1 50	23 4	0 25	22 13	0 58	13 50	16 28	23 7	23 4	11 33	8 17	1 40	
T 17	23 23	9 21	3 49	17 28	4 20	22 4	0 26	1 19	0 12	22 41	0 14	18 35	1 50	23 5	0 25	22 13	0 58	13 50	16 28	23 7	23 4	11 30	8 18	1 40	
F 18	23 25	4 34	4 29	17 31	4 19	22 14	0 24	1 30	0 11	22 39	0 14	18 37	1 50	23 5	0 25	22 13	0 58	13 50	16 28	23 7	23 4	11 27	8 18	1 40	
S 19	23 26	0n25	4 58	17 36	4 16	22 25	0 22	1 41	0 9	22 38	0 14	18 38	1 50	23 5	0 25	22 13	0 58	13 51	16 29	23 7	23 5	11 25	8 19	1 40	
S 20	23 27	5 27	5 14	17 42	4 12	22 34	0 19	1 52	0 8	22 36	0 14	18 40	1 50	23 5	0 25	22 13	0 58	13 51	16 29	23 7	23 5	11 22	8 20	1 40	
M21	23 28	10 21	5 16	17 50	4 7	22 43	0 17	2 3	0 6	22 35	0 14	18 41	1 50	23 6	0 25	22 13	0 58	13 51	16 30	23 7	23 5	11 19	8 20	1 40	
T 22	23 28	14 58	5 3	18 0	4 1	22 51	0 15	2 14	0 5	22 33	0 14	18 43	1 50	23 6	0 25	22 13	0 58	13 51	16 30	23 7	23 5	11 16	8 21	1 40	
W23	23 27	19 2	4 35	18 11	3 55	22 59	0 12	2 25	0 3	22 31	0 14	18 44	1 50	23 6	0 25	22 14	0 58	13 51	16 30	23 7	23 6	11 14	8 22	1 40	
T 24	23 26	22 14	3 50	18 24	3 47	23 5	0 10	2 37	0 2	22 30	0 14	18 45	1 50	23 6	0 25	22 14	0 58	13 52	16 31	23 7	23 6	11 11	8 22	1 40	
F 25	23 25	24 17	2 52	18 37	3 39	23 12	0 7	2 48	0 0	22 28	0 14	18 47	1 50	23 7	0 25	22 14	0 58	13 52	16 31	23 7	23 6	11 8	8 23	1 40	
S 26	23 24	24 50	1 41	18 52	3 30	23 17	0 5	3 0	0s 1	22 26	0 14	18 48	1 50	23 7	0 25	22 14	0 58	13 52	16 31	23 7	23 6	11 5	8 23	1 40	
S 27	23 22	23 44	0 23	19 8	3 21	23 22	0 2	3 11	0 2	22 25	0 14	18 49	1 50	23 7	0 25	22 14	0 58	13 53	16 32	23 7	23 7	11 3	8 24	1 40	
M28	23 19	21 0	0s58	19 24	3 11	23 26	0n 0	3 23	0 4	22 23	0 14	18 51	1 50	23 7	0 25	22 14	0 58	13 53	16 32	23 7	23 7	11 0	8 24	1 40	
T 29	23 16	16 51	2 16	19 41	3 0	23 30	0 2	3 35	0 5	22 21	0 15	18 52	1 50	23 8	0 25	22 14	0 58	13 53	16 33	23 7	23 7	10 57	8 25	1 40	
W30	23n13	11n41	3s25	19n58	2s49	23n33	0n 5	3s47	0s 6	22n19	0n15	18n53	1s50	23s 8	0s25	22s14	0n58	13s53	16s33	23s 7	23s 7	10s54	8n25	1n40	

Julian Day Number = 2387413.5, Delta T = 14.58 sec
Ecliptic obliquity = 23°27'45, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°17'19, Lahiri = 21°24'19

ASTRODIENST EPHEMERIS for the year 1824
geocentric

JULY 1824

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 35 58	9 ⁵⁵ 1'20	4 ¹⁷ 22	17 ¹¹ 37	1 ⁵⁸ 8	9 ⁴⁶ 46	19 ²⁷ 27	2 ¹¹ 39	14 ^R 1	8 ^R 13	3 ¹¹ 11	9 ³⁰ 30	9 ²⁸ 28	22 ⁵⁵ 5	17 ¹⁷ 31	T 1
F 2	18 39 55	9 ⁵⁸ 33	18 ⁵⁰ 50	18 ⁴⁹ 49	2 ²¹ 21	10 ¹⁴ 14	19 ⁴¹ 41	2 ⁴⁶ 46	13 ⁵⁸ 58	8 ¹² 12	3 ¹¹ 11	9 ^R 30	9 ²⁵ 25	22 ¹¹ 11	17 ³² 32	F 2
S 3	18 43 51	10 ⁵⁵ 45	3 ⁴ 2	20 ⁴ 4	3 ³⁵ 35	10 ⁴² 42	19 ⁵⁴ 54	2 ⁵³ 53	13 ⁵⁶ 56	8 ¹⁰ 10	3 ^R 11	9 ³⁰ 30	9 ²² 22	22 ¹⁸ 18	17 ³³ 33	S 3
S 4	18 47 48	11 ⁵² 57	16 ⁵⁵ 55	21 ²³ 23	4 ⁴⁹ 49	11 ¹¹ 11	20 ⁸ 8	2 ⁵⁹ 59	13 ⁵⁴ 54	8 ⁹ 9	3 ¹¹ 11	9 ^D 30	9 ¹⁹ 19	22 ²⁵ 25	17 ³⁴ 34	S 4
M 5	18 51 44	12 ⁵⁰ 08	0 ¹¹ 30	22 ⁴⁷ 47	6 ² 2	11 ³⁹ 39	20 ²¹ 21	3 ⁶ 6	13 ⁵¹ 51	8 ⁷ 7	3 ¹¹ 11	9 ³⁰ 30	9 ¹⁶ 16	22 ³¹ 31	17 ³⁵ 35	M 5
T 6	18 55 41	13 ⁴⁷ 20	13 ⁴⁶ 46	24 ¹⁴ 14	7 ¹⁶ 16	12 ⁸ 8	20 ³⁴ 34	3 ¹³ 13	13 ⁴⁹ 49	8 ⁵ 5	3 ¹¹ 11	9 ³¹ 31	9 ¹² 12	22 ³⁸ 38	17 ³⁶ 36	T 6
W 7	18 59 37	14 ⁴⁴ 31	26 ⁴⁶ 46	25 ⁴⁵ 45	8 ²⁹ 29	12 ³⁸ 38	20 ⁴⁸ 48	3 ¹⁹ 19	13 ⁴⁶ 46	8 ⁴ 4	3 ¹¹ 11	9 ³¹ 31	9 ⁹ 9	22 ⁴⁵ 45	17 ³⁷ 37	W 7
T 8	19 3 34	15 ⁴¹ 42	9 ⁴ 30	27 ¹⁹ 19	9 ⁴³ 43	13 ⁷ 7	21 ¹ 1	3 ²⁶ 26	13 ⁴⁴ 44	8 ² 2	3 ¹¹ 11	9 ³² 32	9 ⁶ 6	22 ⁵¹ 51	17 ³⁷ 37	T 8
F 9	19 7 30	16 ³⁸ 54	22 ¹ 1	28 ⁵⁸ 58	10 ⁵⁷ 57	13 ³⁷ 37	21 ¹⁴ 14	3 ³² 32	13 ⁴² 42	8 ¹ 1	3 ¹¹ 11	9 ³² 32	9 ³ 3	22 ⁵⁸ 58	17 ³⁸ 38	F 9
S 10	19 11 27	17 ³⁶ 05	4 ³ 21	0 ⁵ 39	12 ¹⁰ 10	14 ⁷ 7	21 ²⁸ 28	3 ³⁸ 38	13 ³⁹ 39	7 ⁵⁹ 59	3 ¹¹ 11	9 ^R 33	9 ⁰ 0	23 ⁵ 5	17 ³⁹ 39	S 10
S 11	19 15 24	18 ³³ 17	16 ³⁰ 30	2 ²⁴ 24	13 ²⁴ 24	14 ³⁷ 37	21 ⁴¹ 41	3 ⁴⁵ 45	13 ³⁷ 37	7 ⁵⁷ 57	3 ¹¹ 11	9 ³³ 33	8 ⁵⁷ 57	23 ¹² 12	17 ³⁹ 39	S 11
M 12	19 19 20	19 ³⁰ 29	28 ³² 32	4 ¹³ 13	14 ³⁸ 38	15 ⁷ 7	21 ⁵⁵ 55	3 ⁵¹ 51	13 ³⁴ 34	7 ⁵⁶ 56	3 ¹¹ 11	9 ³² 32	8 ⁵³ 53	23 ¹⁸ 18	17 ⁴⁰ 40	M 12
T 13	19 23 17	20 ²⁷ 42	10 ³ 27	6 ⁴ 4	15 ⁵² 52	15 ³⁸ 38	22 ⁸ 8	3 ⁵⁷ 57	13 ³² 32	7 ⁵⁴ 54	3 ¹⁰ 10	9 ³¹ 31	8 ⁵⁰ 50	23 ²⁵ 25	17 ⁴⁰ 40	T 13
W 14	19 27 13	21 ²⁴ 54	22 ¹⁹ 19	7 ⁵⁹ 59	17 ⁵ 5	16 ⁹ 9	22 ²¹ 21	4 ³ 3	13 ³⁰ 30	7 ⁵³ 53	3 ¹⁰ 10	9 ³⁰ 30	8 ⁴⁷ 47	23 ³² 32	17 ⁴¹ 41	W 14
T 15	19 31 10	22 ²² 07	4 ³ 9	9 ⁵⁵ 55	18 ¹⁹ 19	16 ⁴⁰ 40	22 ³⁵ 35	4 ⁹ 9	13 ²⁷ 27	7 ⁵¹ 51	3 ¹⁰ 10	9 ²⁸ 28	8 ⁴⁴ 44	23 ³⁸ 38	17 ⁴¹ 41	T 15
F 16	19 35 6	23 ¹⁹ 21	16 ¹ 1	11 ⁵⁵ 55	19 ³³ 33	17 ¹² 12	22 ⁴⁸ 48	4 ¹⁵ 15	13 ²⁵ 25	7 ⁵⁰ 50	3 ¹⁰ 10	9 ²⁶ 26	8 ⁴¹ 41	23 ⁴⁵ 45	17 ⁴¹ 41	F 16
S 17	19 39 3	24 ¹⁶ 36	27 ⁵⁷ 57	13 ⁵⁶ 56	20 ⁴⁷ 47	17 ⁴³ 43	23 ² 2	4 ²¹ 21	13 ²² 22	7 ⁴⁸ 48	3 ⁹ 9	9 ²⁴ 24	8 ³⁷ 37	23 ⁵² 52	17 ⁴² 42	S 17
S 18	19 42 59	25 ¹³ 51	10 ¹ 2	15 ⁵⁹ 59	22 ¹ 1	18 ¹⁵ 15	23 ¹⁵ 15	4 ²⁷ 27	13 ²⁰ 20	7 ⁴⁶ 46	3 ⁹ 9	9 ²³ 23	8 ³⁴ 34	23 ⁵⁸ 58	17 ⁴² 42	S 18
M 19	19 46 56	26 ¹¹ 07	22 ¹⁹ 19	18 ⁴ 4	23 ¹⁴ 14	18 ⁴⁷ 47	23 ²⁹ 29	4 ³³ 33	13 ¹⁸ 18	7 ⁴⁵ 45	3 ⁹ 9	9 ^D 22	8 ³¹ 31	24 ⁵ 5	17 ⁴² 42	M 19
T 20	19 50 53	27 ⁸ 23	4 ³ 54	20 ⁹ 9	24 ²⁸ 28	19 ¹⁹ 19	23 ⁴² 42	4 ³⁹ 39	13 ¹⁵ 15	7 ⁴³ 43	3 ⁸ 8	9 ²² 22	8 ²⁸ 28	24 ¹² 12	17 ⁴² 42	T 20
W 21	19 54 49	28 ⁵ 41	17 ⁴⁹ 49	22 ¹⁶ 16	25 ⁴² 42	19 ⁵² 52	23 ⁵⁵ 55	4 ⁴⁴ 44	13 ¹³ 13	7 ⁴² 42	3 ⁸ 8	9 ²³ 23	8 ²⁵ 25	24 ¹⁸ 18	17 ⁴² 42	W 21
T 22	19 58 46	29 ³ 00	1 ¹¹ 8	24 ²³ 23	26 ⁵⁶ 56	20 ²⁴ 24	24 ⁹ 9	4 ⁵⁰ 50	13 ¹¹ 11	7 ⁴⁰ 40	3 ⁸ 8	9 ²⁴ 24	8 ²² 22	24 ²⁵ 25	17 ⁴² 42	T 22
F 23	20 2 42	0 ¹ 0'19	14 ⁵⁴ 54	26 ³⁰ 30	28 ¹⁰ 10	20 ⁵⁷ 57	24 ²² 22	4 ⁵⁵ 55	13 ⁸ 8	7 ³⁹ 39	3 ⁷ 7	9 ²⁶ 26	8 ¹⁸ 18	24 ³² 32	17 ⁴² 42	F 23
S 24	20 6 39	0 ⁵ 7'40	29 ⁵ 5	28 ³⁷ 37	29 ²⁴ 24	21 ³⁰ 30	24 ³⁵ 35	5 ¹ 1	13 ⁶ 6	7 ³⁷ 37	3 ⁷ 7	9 ²⁷ 27	8 ¹⁵ 15	24 ³⁸ 38	17 ⁴² 42	S 24
S 25	20 10 35	1 ⁵⁵ 01	13 ⁵ 41	0 ¹ 44	0 ¹ 38	22 ³ 3	24 ⁴⁹ 49	5 ⁶ 6	13 ⁴ 4	7 ³⁶ 36	3 ⁶ 6	9 ^R 27	8 ¹² 12	24 ⁴⁵ 45	17 ⁴² 42	S 25
M 26	20 14 32	2 ⁵² 23	28 ³⁶ 36	2 ⁵¹ 51	1 ⁵² 52	22 ³⁷ 37	25 ² 2	5 ¹² 12	13 ² 2	7 ³⁵ 35	3 ⁶ 6	9 ²⁶ 26	8 ⁹ 9	24 ⁵² 52	17 ⁴² 42	M 26
T 27	20 18 29	3 ⁴⁹ 46	13 ¹ 43	4 ⁵⁶ 56	3 ⁶ 6	23 ¹⁰ 10	25 ¹⁶ 16	5 ¹⁷ 17	12 ⁵⁹ 59	7 ³³ 33	3 ⁵ 5	9 ²⁴ 24	8 ⁶ 6	24 ⁵⁸ 58	17 ⁴¹ 41	T 27
W 28	20 22 25	4 ⁴⁷ 10	28 ⁵ 5	7 ¹ 1	4 ²⁰ 20	23 ⁴⁴ 44	25 ²⁹ 29	5 ²² 22	12 ⁵⁷ 57	7 ³² 32	3 ⁵ 5	9 ²¹ 21	8 ³ 3	25 ⁵ 5	17 ⁴¹ 41	W 28
T 29	20 26 22	5 ⁴⁴ 34	13 ¹¹ 53	9 ⁴ 4	5 ³⁴ 34	24 ¹⁸ 18	25 ⁴² 42	5 ²⁷ 27	12 ⁵⁵ 55	7 ³⁰ 30	3 ⁴ 4	9 ¹⁸ 18	7 ⁵⁹ 59	25 ¹² 12	17 ⁴¹ 41	T 29
F 30	20 30 18	6 ⁴¹ 59	28 ³⁹ 39	11 ⁶ 6	6 ⁴⁸ 48	24 ⁵² 52	25 ⁵⁵ 55	5 ³² 32	12 ⁵³ 53	7 ²⁹ 29	3 ⁴ 4	9 ¹⁴ 14	7 ⁵⁶ 56	25 ¹⁹ 19	17 ⁴⁰ 40	F 30
S 31	20 34 15	7 ¹ 39'24	13 ¹ 3	13 ¹ 7	8 ¹ 2	25 ¹ 26	26 ⁹ 9	5 ¹ 37	12 ⁵ 51	7 ²⁸ 28	3 ¹ 3	9 ¹¹ 11	7 ⁵ 53	25 ²⁵ 25	17 ⁴⁰ 40	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
T 1	23n 9	5n53	4s20	20n16	2s38	23n35	0n 7	3s59	0s 8	22n17	0n15	18n54	1s50	23s 8	0s25	22s14	0n58	13s54	16s33	23s 7	23s 7	10s52	8n26	1n40	
F 2	23 5	0s 8	4 57	20 34	2 26	23 36	0 10	4 11	0 9	22 16	0 15	18 56	1 50	23 8	0 25	22 14	0 58	13 54	16 34	23 7	23 8	10 49	8 26	1 40	
S 3	23 1	6 2	5 15	20 52	2 13	23 37	0 12	4 24	0 10	22 14	0 15	18 57	1 50	23 9	0 25	22 15	0 58	13 54	16 34	23 7	23 8	10 46	8 26	1 40	
S 4	22 56	11 30	5 15	21 10	2 1	23 37	0 14	4 36	0 11	22 12	0 15	18 58	1 50	23 9	0 25	22 15	0 58	13 55	16 34	23 7	23 8	10 43	8 27	1 40	
M 5	22 51	16 17	4 56	21 28	1 48	23 36	0 17	4 48	0 13	22 10	0 15	18 59	1 51	23 9	0 25	22 15	0 58	13 55	16 35	23 7	23 8	10 41	8 27	1 40	
T 6	22 45	20 9	4 23	21 45	1 36	23 35	0 19	5 1	0 14	22 8	0 15	19 1	1 51	23 10	0 25	22 15	0 58	13 55	16 35	23 7	23 9	10 38	8 27	1 40	
W 7	22 39	22 57	3 36	22 1	1 23	23 33	0 21	5 13	0 15	22 6	0 15	19 2	1 51	23 10	0 25	22 15	0 58	13 56	16 36	23 7	23 9	10 35	8 28	1 40	
T 8	22 32	24 31	2 39	22 16	1 10	23 30	0 24	5 26	0 16	22 4	0 15	19 3	1 51	23 10	0 25	22 15	0 58	13 56	16 36	23 7	23 9	10 32	8 28	1 40	
F 9	22 25	24 49	1 36	22 31	0 57	23 27	0 26	5 39	0 17	22 2	0 15	19 4	1 51	23 10	0 25	22 15	0 58	13 57	16 36	23 7	23 9	10 30	8 28	1 40	
S 10	22 18	23 52	0 29	22 44	0 44	23 22	0 28	5 51	0 18	22 0	0 15	19 5	1 51	23 11	0 25	22 15	0 58	13 57	16 37	23 7	23 9	10 27	8 29	1 40	
S 11	22 11	21 48	0n38	22 55	0 31	23 17	0 30	6 4	0 20	21 58	0 16	19 6	1 51	23 11	0 25	22 15	0 58	13 57	16 37	23 7	23 10	10 24	8 29	1 40	
M12	22 3	18 47	1 43	23 5	0 19	23 12	0 33	6 17	0 21	21 56	0 16	19 7	1 51	23 11	0 25	22 16	0 58	13 58	16 37	23 7	23 10	10 21	8 29	1 40	
T 13	21 54	15 1	2 43	23 13	0 7	23 6	0 35	6 30	0 22	21 54	0 16	19 8	1 51	23 11	0 25	22 16	0 58	13 58	16 38	23 7	23 10	10 19	8 29	1 40	
W14	21 45	10 41	3 35	23 18	0n 5	22 59	0 37	6 43	0 23	21 52	0 16	19 9	1 51	23 12	0 25	22 16	0 58	13 59	16 38	23 7	23 10	10 16	8 30	1 41	
T 15	21 36	5 59	4 18	23 22	0 17	22 51	0 39	6 56	0 24	21 50	0 16	19 10	1 51	23 12	0 25	22 16	0 58	13 59	16 38	23 7	23 10	10 13	8 30	1 41	
F 16	21 27	1 4	4 50	23 23	0 27	22 43	0 41	7 9	0 25	21 48	0 16	19 11	1 51	23 12	0 25	22 16	0 58	13 59	16 39	23 8	23 11	10 10	8 30	1 41	
S 17	21 17	3n55	5 10	23 22	0 38	22 34	0 43	7 22	0 26	21 46	0 16	19 12	1 51	23 12	0 25	22 16	0 58	14 0	16 39	23 8	23 11	10 8	8 30	1 41	
S 18	21 7	8 49	5 16	23 17	0 48	22 24	0 45	7 35	0 27	21 43	0 16	19 13	1 52	23 13	0 25	22 16	0 58	14 0	16 40	23 8	23 11	10 5	8 30	1 41	
M19	20 56	13 27	5 8	23 11	0 57	22 14	0 47	7 48	0 28	21 41	0 16	19 14	1 52	23 13	0 25	22 16	0 58	14 1	16 40	23 8	23 11	10 2	8 30	1 41	
T 20	20 45	17 38	4 45	23 1	1 5	22 3	0 49	8 1	0 29	21 39	0 16	19 15	1 52	23 13	0 25	22 16	0 58	14 1	16 40	23 8	23 12	9 59	8 30	1 41	
W21	20 34	21 7	4 8	22 49	1 13	21 52	0 51	8 14	0 30	21 37	0 16	19 16	1 52	23 13	0 25	22 17	0 58	14 2	16 41	23 8	23 12	9 56	8 30	1 41	
T 22	20 22	23 36	3 16	22 34	1 20	21 39	0 53	8 28	0 31	21 35	0 17	19 17	1 52	23 13	0 25	22 17	0 58	14 2	16 41	23 8	23 12	9 54	8 30	1 41	
F 23	20 10	24 47	2 11	22 16	1 26	21 27	0 55	8 41	0 32	21 32	0 17	19 18	1 52	23 14	0 25	22 17	0 58	14 3	16 41	23 8	23 12	9 51	8 30	1 41	
S 24	19 58	24 24	0 57	21 56	1 31	21 13	0 57	8 54	0 33	21 30	0 17	19 19	1 52	23 14	0 25	22 17	0 58	14 3	16 42	23 8	23 12	9 48	8 30	1 41	
S 25	19 45	22 42	0s23	21 34	1 35	20 59	0 58	9 8	0 34	21 28	0 17	19 20	1 52	23 14	0 25	22 17	0 58	14 4	16 42	23 8	23 13	9 45	8 30	1 41	
M26	19 32	18 46	1 44	21 9	1 39	20 44	1 0	9 21	0 35	21 25	0 17	19 21	1 52	23 14	0 25	22 17	0 58	14 4	16 42	23 8	23 13	9 43	8 30	1 41	
T 27	19 19	13 53	2 57	20 42	1 42	20 29	1 2	9 34	0 36	21 23	0 17	19 22	1 52	23 15	0 25	22 17	0 58	14 5	16 43	23 8	23 13	9 40	8 30	1 41	
W28	19 5	8 9	3 59	20 13	1 44	20 13	1 3	9 48	0 37	21 21	0 17	19 22	1 53	23 15	0 25	22 17	0 58	14 5	16 43	23 8	23 13	9 37	8 30	1 41	
T 29	18 51	1 59	4 43	19 42	1 46	19 57	1 5	10 1	0 38	21 18	0 17	19 23	1 53	23 15	0 25	22 17	0 58	14 6	16 43	23 8	23 13	9 34	8 30	1 41	
F 30	18 37	4s10	5 8	19 10	1 47	19 40	1 6	10 14	0 39	21 16	0 17	19 24	1 53	23 15	0 25	22 18	0 58	14 6	16 44	23 8	23 13	9 31	8 30	1 41	
S 31	18n22	9s57	5s13	18n36	1n47	19n22	1n 8	10s28	0s40	21n14	0n17	19n25	1s53	23s15	0s25	22s18	0n58	14s 7	16s44	23s 9	23s14	9s29	8n29	1n41	

ASTRODIENST EPHEMERIS for the year 1824

geocentric

AUGUST 1824

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 38 11	8♌36°50	27♊ 2	15♏ 7	9♏16	26♊ 1	26♊22	5♏42	12°R49	7°R26	3°R 2	9°R10	7♊50	25♊32	17°R39	S 1
M 2	20 42 8	9°34'17	10♏35	17° 5	10°30	26°36	26°35	5°47	12♊47	7♊25	3°Y 2	9°D 9	7°47	25°39	17°Y38	M 2
T 3	20 46 4	10°31'45	23°45	19° 2	11°44	27°11	26°48	5°52	12°45	7°24	3° 1	9♊10	7°43	25°45	17°38	T 3
W 4	20 50 1	11°29'13	6♊34	20°57	12°58	27°46	27° 2	5°57	12°43	7°22	3° 1	9°11	7°40	25°52	17°37	W 4
T 5	20 53 58	12°26'42	19° 5	22°51	14°12	28°21	27°15	6° 1	12°41	7°21	3° 0	9°13	7°37	25°59	17°36	T 5
F 6	20 57 54	13°24'12	1♊22	24°43	15°26	28°56	27°28	6° 6	12°39	7°20	2°59	9°14	7°34	26° 5	17°36	F 6
S 7	21 1 51	14°21'43	13°29	26°34	16°40	29°32	27°41	6°10	12°37	7°19	2°59	9°R14	7°31	26°12	17°35	S 7
S 8	21 5 47	15°19'14	25°28	28°23	17°54	0♏ 7	27°54	6°14	12°35	7°18	2°58	9°13	7°28	26°19	17°34	S 8
M 9	21 9 44	16°16'47	7♊22	0♏10	19° 8	0°43	28° 7	6°19	12°33	7°16	2°57	9°10	7°24	26°25	17°33	M 9
T 10	21 13 40	17°14'21	19°13	1°56	20°23	1°19	28°20	6°23	12°31	7°15	2°56	9° 5	7°21	26°32	17°32	T 10
W11	21 17 37	18°11'56	1♊ 4	3°41	21°37	1°55	28°33	6°27	12°29	7°14	2°56	8°59	7°18	26°39	17°31	W11
T 12	21 21 33	19° 9'32	12°55	5°24	22°51	2°32	28°46	6°31	12°27	7°13	2°55	8°51	7°15	26°46	17°30	T 12
F 13	21 25 30	20° 7'10	24°50	7° 5	24° 5	3° 8	28°59	6°35	12°26	7°12	2°54	8°44	7°12	26°52	17°28	F 13
S 14	21 29 27	21° 4'49	6♊49	8°46	25°19	3°45	29°12	6°39	12°24	7°11	2°53	8°37	7° 9	26°59	17°27	S 14
S 15	21 33 23	22° 2'29	18°57	10°24	26°33	4°21	29°25	6°42	12°22	7°10	2°52	8°31	7° 5	27° 6	17°26	S 15
M16	21 37 20	23° 0'11	1♊15	12° 1	27°48	4°58	29°37	6°46	12°21	7° 9	2°51	8°27	7° 2	27°12	17°25	M16
T 17	21 41 16	23°57'55	13°47	13°37	29° 2	5°35	29°50	6°50	12°19	7° 8	2°51	8°24	6°59	27°19	17°23	T 17
W18	21 45 13	24°55'40	26°38	15°11	0♏16	6°12	0♏ 3	6°53	12°17	7° 7	2°50	8°D24	6°56	27°26	17°22	W18
T 19	21 49 9	25°53'27	9♏50	16°44	1°30	6°50	0°16	6°56	12°16	7° 6	2°49	8°25	6°53	27°32	17°21	T 19
F 20	21 53 6	26°51'16	23°27	18°16	2°45	7°27	0°28	7° 0	12°14	7° 5	2°48	8°26	6°49	27°39	17°19	F 20
S 21	21 57 2	27°49'07	7♊31	19°45	3°59	8° 5	0°41	7° 3	12°13	7° 4	2°47	8°R26	6°46	27°46	17°17	S 21
S 22	22 0 59	28°46'59	22° 1	21°14	5°13	8°43	0°54	7° 6	12°11	7° 3	2°46	8°26	6°43	27°52	17°16	S 22
M23	22 4 56	29°44'53	6♏55	22°41	6°28	9°21	1° 6	7° 9	12°10	7° 2	2°45	8°23	6°40	27°59	17°14	M23
T 24	22 8 52	0♏42'49	22° 4	24° 7	7°42	9°59	1°19	7°12	12° 9	7° 2	2°44	8°18	6°37	28° 6	17°13	T 24
W25	22 12 49	1°40'46	7♏21	25°31	8°56	10°37	1°31	7°15	12° 7	7° 1	2°43	8°11	6°34	28°13	17°11	W25
T 26	22 16 45	2°38'44	22°35	26°53	10°11	11°15	1°43	7°17	12° 6	7° 0	2°42	8° 3	6°30	28°19	17° 9	T 26
F 27	22 20 42	3°36'44	7♊33	28°14	11°25	11°54	1°56	7°20	12° 5	6°59	2°41	7°55	6°27	28°26	17° 7	F 27
S 28	22 24 38	4°34'46	22°10	29°34	12°39	12°32	2° 8	7°22	12° 4	6°59	2°40	7°47	6°24	28°33	17° 5	S 28
S 29	22 28 35	5°32'49	6♏18	0♏51	13°54	13°11	2°20	7°25	12° 3	6°58	2°39	7°42	6°21	28°39	17° 4	S 29
M30	22 32 31	6°30'53	19°58	2° 8	15° 8	13°50	2°32	7°27	12° 1	6°57	2°38	7°39	6°18	28°46	17° 2	M30
T 31	22 36 28	7♏28'59	3♊ 9	3♊22	16♏22	14♏29	2♏44	7♏29	12♊ 0	6♊57	2°Y37	7°D37	6♊14	28°53	17°Y 0	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	18n 8	15s 4	4s59	18n 0	1n46	19n 4	1n 9	10s41	0s41	21n11	0n18	19n25	1s53	23s16	0s25	22s18
M 2	17 52	19 15	4 28	17 24	1 45	18 45	1 11	10 55	0 41	21 9	0 18	19 26	1 53	23 16	0 25	22 18
T 3	17 37	22 20	3 44	16 46	1 43	18 26	1 12	11 8	0 42	21 6	0 18	19 27	1 53	23 16	0 25	22 18
W 4	17 21	24 12	2 49	16 7	1 41	18 6	1 13	11 21	0 43	21 4	0 18	19 28	1 53	23 16	0 25	22 18
T 5	17 5	24 48	1 48	15 27	1 38	17 46	1 14	11 35	0 44	21 1	0 18	19 28	1 53	23 16	0 25	22 18
F 6	16 49	24 10	0 43	14 47	1 34	17 25	1 15	11 48	0 45	20 59	0 18	19 29	1 54	23 17	0 25	22 18
S 7	16 32	22 24	0n23	14 5	1 30	17 4	1 17	12 2	0 46	20 57	0 18	19 29	1 54	23 17	0 25	22 18
S 8	16 15	19 38	1 27	13 24	1 26	16 43	1 18	12 15	0 46	20 54	0 18	19 30	1 54	23 17	0 25	22 18
M 9	15 58	16 4	2 27	12 41	1 21	16 20	1 19	12 28	0 47	20 52	0 18	19 31	1 54	23 17	0 25	22 19
T 10	15 41	11 54	3 20	11 59	1 16	15 58	1 19	12 42	0 48	20 49	0 18	19 31	1 54	23 17	0 25	22 19
W11	15 23	7 18	4 4	11 16	1 11	15 35	1 20	12 55	0 49	20 46	0 19	19 32	1 54	23 17	0 25	22 19
T 12	15 6	2 26	4 38	10 33	1 5	15 11	1 21	13 8	0 50	20 44	0 19	19 32	1 54	23 18	0 25	22 19
F 13	14 47	2n32	5 0	9 49	0 59	14 47	1 22	13 21	0 50	20 41	0 19	19 33	1 54	23 18	0 25	22 19
S 14	14 29	7 26	5 9	9 6	0 52	14 23	1 22	13 35	0 51	20 39	0 19	19 33	1 55	23 18	0 25	22 19
S 15	14 11	12 6	5 4	8 22	0 45	13 58	1 23	13 48	0 52	20 36	0 19	19 34	1 55	23 18	0 25	22 19
M16	13 52	16 22	4 45	7 39	0 38	13 33	1 24	14 1	0 53	20 34	0 19	19 34	1 55	23 18	0 25	22 19
T 17	13 33	20 0	4 12	6 56	0 31	13 8	1 24	14 14	0 53	20 31	0 19	19 35	1 55	23 18	0 25	22 19
W18	13 14	22 46	3 26	6 12	0 23	12 42	1 24	14 27	0 54	20 28	0 19	19 35	1 55	23 18	0 25	22 19
T 19	12 54	24 23	2 28	5 29	0 16	12 16	1 25	14 40	0 55	20 26	0 19	19 36	1 55	23 19	0 25	22 19
F 20	12 34	24 38	1 20	4 46	0 8	11 50	1 25	14 53	0 55	20 23	0 20	19 36	1 55	23 19	0 25	22 19
S 21	12 15	23 20	0 5	4 3	0s 0	11 23	1 25	15 6	0 56	20 21	0 20	19 36	1 56	23 19	0 25	22 20
S 22	11 55	20 28	1s13	3 21	0 9	10 56	1 25	15 19	0 57	20 18	0 20	19 37	1 56	23 19	0 25	22 20
M23	11 34	16 11	2 27	2 39	0 17	10 28	1 25	15 32	0 57	20 15	0 20	19 37	1 56	23 19	0 25	22 20
T 24	11 14	10 49	3 32	1 57	0 25	10 1	1 25	15 44	0 58	20 13	0 20	19 37	1 56	23 19	0 25	22 20
W25	10 53	4 45	4 23	1 16	0 34	9 33	1 25	15 57	0 59	20 10	0 20	19 38	1 56	23 19	0 25	22 20
T 26	10 32	1s34	4 55	0 35	0 43	9 5	1 25	16 10	0 59	20 8	0 20	19 38	1 56	23 19	0 25	22 20
F 27	10 12	7 41	5 6	0s 5	0 52	8 36	1 25	16 22	1 0	20 5	0 20	19 38	1 56	23 20	0 25	22 20
S 28	9 50	13 13	4 56	0 45	1 0	8 7	1 25	16 34	1 0	20 2	0 21	19 39	1 57	23 20	0 25	22 20
S 29	9 29	17 51	4 29	1 24	1 9	7 39	1 25	16 47	1 1	20 0	0 21	19 39	1 57	23 20	0 25	22 20
M30	9 8	21 23	3 47	2 3	1 18	7 9	1 24	16 59	1 2	19 57	0 21	19 39	1 57	23 20	0 25	22 20
T 31	8n46	23s39	2s54	2s40	1s27	6n40	1n24	17s11	1s 2	19n54	0n21	19n39	1s57	23s20	0s25	22s20

Julian Day Number = 2387474.5, Delta T = 14.47 sec
 Ecliptic obliquity = 23°27'45, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°17'27, Lahiri = 21°24'28

ASTRODIENST EPHEMERIS for the year 1824
geocentric

SEPTEMBER 1824

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 40 24	8 ^h 27'06"	15 ^h 55'	4 ^h 34'	17 ^h 37'	15 ^h 8'	2 ^h 56'	7 ^h 31'	11 ^h 59'	6 ^h 56'	2 ^h 36'	7 ^h 37'	6 ^h 11'	28 ^h 59'	16 ^h 58'	W 1
T 2	22 44 21	9°25'14"	28°21'	5°45'	18°51'	15°47'	3° 8'	7°33'	11 ^h 58'	6 ^h 56'	2 ^h 35'	7°38'	6° 8'	29° 6'	16 ^h 56'	T 2
F 3	22 48 18	10°23'24"	10 ^h 32'	6°54'	20° 5'	16°26'	3°20'	7°35'	11°58'	6°55'	2°34'	7°38'	6° 5'	29°13'	16°53'	F 3
S 4	22 52 14	11°21'36"	22°32'	8° 0'	21°20'	17° 6'	3°32'	7°37'	11°57'	6°55'	2°33'	7°37'	6° 2'	29°19'	16°51'	S 4
S 5	22 56 11	12°19'49"	4 ^h 25'	9° 4'	22°34'	17°45'	3°44'	7°39'	11°56'	6°54'	2°32'	7°34'	5°59'	29°26'	16°49'	S 5
M 6	23 0 7	13°18'03"	16°15'	10° 6'	23°49'	18°25'	3°56'	7°40'	11°55'	6°54'	2°30'	7°28'	5°55'	29°33'	16°47'	M 6
T 7	23 4 4	14°16'20"	28° 5'	11° 6'	25° 3'	19° 5'	4° 7'	7°42'	11°54'	6°53'	2°29'	7°19'	5°52'	29°40'	16°45'	T 7
W 8	23 8 0	15°14'38"	9 ^h 57'	12° 3'	26°17'	19°45'	4°19'	7°43'	11°54'	6°53'	2°28'	7° 8'	5°49'	29°46'	16°42'	W 8
T 9	23 11 57	16°12'57"	21°53'	12°57'	27°32'	20°25'	4°30'	7°44'	11°53'	6°53'	2°27'	6°56'	5°46'	29°53'	16°40'	T 9
F 10	23 15 53	17°11'19"	3 ^h 54'	13°48'	28°46'	21° 5'	4°42'	7°45'	11°53'	6°52'	2°26'	6°43'	5°43'	29°59'	16°38'	F 10
S 11	23 19 50	18° 9'42"	16° 2'	14°35'	0 ^h 1'	21°45'	4°53'	7°46'	11°52'	6°52'	2°25'	6°31'	5°40'	0 ^h 6'	16°36'	S 11
S 12	23 23 47	19° 8'08"	28°17'	15°20'	1°15'	22°26'	5° 5'	7°47'	11°52'	6°52'	2°24'	6°20'	5°36'	0°13'	16°33'	S 12
M13	23 27 43	20° 6'36"	10 ^h 42'	16° 1'	2°29'	23° 6'	5°16'	7°48'	11°51'	6°52'	2°23'	6°12'	5°33'	0°20'	16°31'	M13
T14	23 31 40	21° 5'05"	23°19'	16°37'	3°44'	23°47'	5°27'	7°49'	11°51'	6°51'	2°21'	6° 6'	5°30'	0°26'	16°28'	T14
W15	23 35 36	22° 3'37"	6 ^h 11'	17°10'	4°58'	24°27'	5°38'	7°49'	11°50'	6°51'	2°20'	6° 3'	5°27'	0°33'	16°26'	W15
T16	23 39 33	23° 2'11"	19°19'	17°37'	6°13'	25° 8'	5°49'	7°50'	11°50'	6°51'	2°19'	6°D 3'	5°24'	0°40'	16°23'	T16
F17	23 43 29	24° 0'48"	2 ^h 34'	18° 0'	7°27'	25°49'	6° 0'	7°50'	11°50'	6°51'	2°18'	6°R 3'	5°20'	0°47'	16°21'	F17
S18	23 47 26	24°59'27"	16°41'	18°18'	8°41'	26°30'	6°11'	7°50'	11°50'	6°51'	2°17'	6° 2'	5°17'	0°53'	16°18'	S18
S19	23 51 22	25°58'07"	0 ^h 58'	18°30'	9°56'	27°11'	6°22'	7°51'	11°50'	6°D51'	2°16'	6° 1'	5°14'	1° 0'	16°16'	S19
M20	23 55 19	26°56'51"	15°37'	18°R35'	11°10'	27°53'	6°32'	7°R51'	11°49'	6°51'	2°14'	5°56'	5°11'	1° 7'	16°13'	M20
T21	23 59 16	27°55'36"	0 ^h 35'	18°35'	12°25'	28°34'	6°43'	7°51'	11°D49'	6°51'	2°13'	5°50'	5° 8'	1°13'	16°10'	T21
W22	0 3 12	28°54'23"	15°43'	18°27'	13°39'	29°15'	6°53'	7°50'	11°49'	6°51'	2°12'	5°40'	5° 5'	1°20'	16° 8'	W22
T23	0 7 9	29°53'12"	0 ^h 52'	18°13'	14°54'	29°57'	7° 4'	7°50'	11°50'	6°51'	2°11'	5°29'	5° 1'	1°27'	16° 5'	T23
F24	0 11 5	0 ^h 52'04"	15°51'	17°51'	16° 8'	0 ^h 39'	7°14'	7°50'	11°50'	6°52'	2°10'	5°18'	4°58'	1°33'	16° 2'	F24
S25	0 15 2	1°50'57"	0 ^h 32'	17°21'	17°23'	1°20'	7°24'	7°49'	11°50'	6°52'	2° 8'	5° 7'	4°55'	1°40'	16° 0'	S25
S26	0 18 58	2°49'52"	14°46'	16°45'	18°37'	2° 2'	7°34'	7°49'	11°50'	6°52'	2° 7'	4°59'	4°52'	1°47'	15°57'	S26
M27	0 22 55	3°48'49"	28°31'	16° 1'	19°51'	2°44'	7°44'	7°48'	11°50'	6°52'	2° 6'	4°53'	4°49'	1°53'	15°54'	M27
T28	0 26 51	4°47'48"	11 ^h 47'	15°10'	21° 6'	3°26'	7°54'	7°47'	11°51'	6°53'	2° 5'	4°50'	4°46'	2° 0'	15°52'	T28
W29	0 30 48	5°46'49"	24°37'	14°13'	22°20'	4° 9'	8° 4'	7°46'	11°51'	6°53'	2° 4'	4°49'	4°42'	2° 7'	15°49'	W29
T30	0 34 45	6 ^h 45'51"	7 ^h 4'	13 ^h 11'	23 ^h 35'	4 ^h 51'	8 ^h 14'	7 ^h 45'	11 ^h 52'	6 ^h 53'	2 ^h 2'	4 ^h 34'	4 ^h 39'	2 ^h 14'	15 ^h 46'	T30

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	8n25	24s36	1s53	3s17	1s36	6n11	1n23	17s23	1s 3	19n52	0n21	19n39	1s57	23s20	0s25	22s20	0n57	14s25	16s52	23s15	23s19	7s59	8n13	1n41	
T 2	8 3	24 17	0 49	3 54	1 45	5 41	1 23	17 35	1 3	19 49	0 21	19 40	1 57	23 20	0 25	22 20	0 56	14 25	16 52	23 15	23 19	7 56	8 13	1 41	
F 3	7 41	22 47	0n15	4 29	1 54	5 11	1 22	17 47	1 4	19 46	0 21	19 40	1 58	23 20	0 25	22 21	0 56	14 26	16 52	23 15	23 19	7 54	8 12	1 41	
S 4	7 19	20 17	1 19	5 3	2 3	4 41	1 21	17 59	1 5	19 44	0 21	19 40	1 58	23 20	0 25	22 21	0 56	14 26	16 52	23 15	23 19	7 51	8 11	1 41	
S 5	6 56	16 57	2 18	5 37	2 12	4 11	1 21	18 11	1 5	19 41	0 22	19 40	1 58	23 20	0 25	22 21	0 56	14 27	16 52	23 15	23 20	7 48	8 10	1 41	
M 6	6 34	12 57	3 10	6 9	2 20	3 41	1 20	18 23	1 6	19 38	0 22	19 40	1 58	23 20	0 25	22 21	0 56	14 27	16 53	23 15	23 20	7 45	8 9	1 41	
T 7	6 12	8 29	3 55	6 41	2 29	3 11	1 19	18 34	1 6	19 36	0 22	19 40	1 58	23 20	0 25	22 21	0 56	14 28	16 53	23 16	23 20	7 42	8 8	1 41	
W 8	5 49	3 42	4 29	7 11	2 37	2 40	1 18	18 46	1 7	19 33	0 22	19 40	1 58	23 20	0 25	22 21	0 56	14 28	16 53	23 16	23 20	7 40	8 7	1 41	
T 9	5 27	1n14	4 51	7 39	2 45	2 10	1 17	18 57	1 7	19 31	0 22	19 40	1 58	23 20	0 25	22 21	0 56	14 29	16 53	23 17	23 20	7 37	8 6	1 41	
F 10	5 4	6 9	5 1	8 7	2 53	1 39	1 16	19 8	1 8	19 28	0 22	19 40	1 59	23 20	0 25	22 21	0 56	14 30	16 53	23 18	23 20	7 34	8 6	1 41	
S 11	4 41	10 53	4 57	8 32	3 1	1 8	1 15	19 19	1 8	19 25	0 22	19 40	1 59	23 21	0 25	22 21	0 56	14 30	16 53	23 18	23 20	7 31	8 5	1 41	
S 12	4 18	15 14	4 40	8 56	3 8	0 38	1 14	19 30	1 9	19 23	0 22	19 40	1 59	23 21	0 25	22 21	0 56	14 31	16 53	23 19	23 21	7 28	8 4	1 41	
M13	3 55	18 59	4 9	9 19	3 15	0 7	1 12	19 41	1 9	19 20	0 23	19 40	1 59	23 21	0 25	22 21	0 56	14 31	16 53	23 19	23 21	7 26	8 3	1 41	
T14	3 32	21 56	3 26	9 39	3 22	0s24	1 11	19 51	1 10	19 18	0 23	19 40	1 59	23 21	0 25	22 21	0 56	14 32	16 53	23 19	23 21	7 23	8 2	1 41	
W15	3 9	23 50	2 31	9 57	3 28	0 55	1 10	20 2	1 10	19 15	0 23	19 40	1 59	23 21	0 25	22 21	0 56	14 32	16 53	23 19	23 21	7 20	8 1	1 41	
T16	2 46	24 29	1 27	10 13	3 34	1 26	1 8	20 12	1 10	19 12	0 23	19 40	2 0	23 21	0 25	22 21	0 56	14 33	16 54	23 19	23 21	7 17	8 0	1 41	
F17	2 23	23 43	0 17	10 26	3 39	1 56	1 7	20 23	1 11	19 10	0 23	19 40	2 0	23 21	0 25	22 21	0 56	14 33	16 54	23 19	23 21	7 14	7 59	1 40	
S18	2 0	21 30	0s56	10 37	3 43	2 27	1 5	20 33	1 11	19 7	0 23	19 40	2 0	23 21	0 25	22 21	0 56	14 34	16 54	23 19	23 21	7 12	7 58	1 40	
S19	1 36	17 53	2 8	10 45	3 47	2 58	1 3	20 43	1 12	19 5	0 23	19 40	2 0	23 21	0 25	22 21	0 56	14 34	16 54	23 20	23 22	7 9	7 57	1 40	
M20	1 13	13 6	3 13	10 49	3 49	3 29	1 2	20 53	1 12	19 2	0 24	19 40	2 0	23 21	0 25	22 21	0 56	14 35	16 54	23 20	23 22	7 6	7 56	1 40	
T21	0 50	7 26	4 6	10 51	3 51	3 59	1 0	21 2	1 13	19 0	0 24	19 40	2 0	23 21	0 25	22 21	0 56	14 35	16 54	23 20	23 22	7 3	7 55	1 40	
W22	0 26	1 18	4 43	10 48	3 51	4 30	0 58	21 12	1 13	18 57	0 24	19 39	2 0	23 21	0 25	22 21	0 56	14 36	16 54	23 20	23 22	7 0	7 54	1 40	
T23	0 3	4s55	4 59	10 42	3 51	5 0	0 57	21 21	1 13	18 55	0 24	19 39	2 1	23 21	0 25	22 22	0 56	14 36	16 54	23 21	23 22	6 58	7 52	1 40	
F24	0s21	10 47	4 55	10 31	3 48	5 31	0 55	21 30	1 14	18 52	0 24	19 39	2 1	23 21	0 25	22 22	0 56	14 37	16 54	23 21	23 22	6 55	7 51	1 40	
S25	0 44	15 54	4 32	10 17	3 45	6 1	0 53	21 39	1 14	18 50	0 24	19 39	2 1	23 21	0 25	22 22	0 56	14 37	16 54	23 22	23 22	6 52	7 50	1 40	
S26	1 8	19 58	3 52	9 57	3 39	6 31	0 51	21 48	1 14	18 47	0 24	19 39	2 1	23 21	0 25	22 22	0 56	14 38	16 54	23 22	23 22	6 49	7 49	1 40	
M27	1 31	22 46	2 59	9 34	3 32	7 1	0 49	21 57	1 15	18 45	0 25	19 38	2 1	23 20	0 25	22 22	0 55	14 38	16 54	23 22	23 22	6 46	7 48	1 40	
T28	1 54	24 11	1 59	9 6	3 23	7 31	0 47	22 5	1 15	18 43	0 25	19 38	2 1	23 20	0 24	22 22	0 55	14 39	16 54	23 22	23 23	6 43	7 47	1 40	
W29	2 18	24 15	0 54	8 33	3 12	8 1	0 45	22 14	1 15	18 40	0 25	19 38	2 1	23 20	0 24	22 22	0 55	14 39	16 54	23 22	23 23	6 41	7 46	1 40	
T30	2s41	23s 5	0n12	7s57	2s59	8s30	0n43	22s22	1s16	18n38	0n25	19n37	2s 2	23s20	0s24	22s22	0n55	14s40	16s54	23s22	23s23	6s38	7n45	1n40	

ASTRODIENST EPHEMERIS for the year 1824
geocentric

OCTOBER 1824

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 38 41	7♂44'56	19♂14	12°R 4	24♂49	5♂33	8♂23	7°R44	11♂52	6♂54	2°R 1	4°R48	4♂36	2♂20	15°R43	F 1
S 2	0 42 38	8°44'02	1♂12	10♂56	26° 4	6°16	8°33	7♂43	11°53	6°54	2°Y 0	4♂47	4°33	2°27	15°Y41	S 2
S 3	0 46 34	9°43'09	13° 4	9°46	27°18	6°58	8°42	7°41	11°53	6°55	1°59	4°43	4°30	2°34	15°38	S 3
M 4	0 50 31	10°42'19	24°53	8°37	28°33	7°41	8°51	7°40	11°54	6°55	1°58	4°37	4°26	2°40	15°35	M 4
T 5	0 54 27	11°41'30	6♂44	7°31	29°47	8°24	9° 0	7°38	11°54	6°56	1°57	4°27	4°23	2°47	15°32	T 5
W 6	0 58 24	12°40'43	18°40	6°30	1♂1 1	9° 6	9° 9	7°37	11°55	6°56	1°55	4°16	4°20	2°54	15°29	W 6
T 7	1 2 20	13°39'58	0°Y43	5°35	2°16	9°49	9°18	7°35	11°56	6°57	1°54	4° 2	4°17	3° 1	15°27	T 7
F 8	1 6 17	14°39'15	12°54	4°49	3°30	10°32	9°27	7°33	11°57	6°57	1°53	3°48	4°14	3° 7	15°24	F 8
S 9	1 10 13	15°38'35	25°14	4°11	4°45	11°15	9°36	7°31	11°58	6°58	1°52	3°35	4°11	3°14	15°21	S 9
S 10	1 14 10	16°37'56	7♂44	3°44	5°59	11°58	9°44	7°29	11°59	6°59	1°51	3°24	4° 7	3°21	15°18	S 10
M 11	1 18 7	17°37'19	20°23	3°28	7°13	12°42	9°53	7°27	12° 0	6°59	1°50	3°14	4° 4	3°27	15°15	M 11
T 12	1 22 3	18°36'45	3♂13	3°D22	8°28	13°25	10° 1	7°24	12° 1	7° 0	1°49	3° 8	4° 1	3°34	15°13	T 12
W 13	1 26 0	19°36'13	16°15	3°28	9°42	14° 8	10° 9	7°22	12° 2	7° 1	1°47	3° 5	3°58	3°41	15°10	W 13
T 14	1 29 56	20°35'44	29°30	3°44	10°57	14°52	10°17	7°19	12° 3	7° 2	1°46	3°D 4	3°55	3°47	15° 7	T 14
F 15	1 33 53	21°35'16	13♂0	4°10	12°11	15°36	10°25	7°17	12° 4	7° 3	1°45	3° 4	3°51	3°54	15° 4	F 15
S 16	1 37 49	22°34'51	26°46	4°46	13°25	16°19	10°33	7°14	12° 5	7° 4	1°44	3°R 4	3°48	4° 1	15° 1	S 16
S 17	1 41 46	23°34'28	10♂51	5°31	14°40	17° 3	10°41	7°11	12° 7	7° 4	1°43	3° 3	3°45	4° 8	14°59	S 17
M 18	1 45 42	24°34'08	25°13	6°24	15°54	17°47	10°48	7° 9	12° 8	7° 5	1°42	3° 0	3°42	4°14	14°56	M 18
T 19	1 49 39	25°33'50	9♂49	7°24	17° 8	18°31	10°55	7° 6	12° 9	7° 6	1°41	2°54	3°39	4°21	14°53	T 19
W 20	1 53 36	26°33'34	24°36	8°30	18°23	19°15	11° 3	7° 3	12°11	7° 7	1°40	2°46	3°36	4°28	14°50	W 20
T 21	1 57 32	27°33'20	9♂25	9°42	19°37	19°59	11°10	6°59	12°12	7° 8	1°39	2°36	3°32	4°34	14°48	T 21
F 22	2 1 29	28°33'08	24° 8	10°58	20°52	20°43	11°17	6°56	12°14	7°10	1°38	2°25	3°29	4°41	14°45	F 22
S 23	2 5 25	29°32'58	8♂37	12°19	22° 6	21°27	11°23	6°53	12°15	7°11	1°37	2°16	3°26	4°48	14°42	S 23
S 24	2 9 22	0♂32'51	22°46	13°44	23°20	22°11	11°30	6°49	12°17	7°12	1°36	2° 8	3°23	4°54	14°40	S 24
M 25	2 13 18	1°32'45	6♂30	15°11	24°35	22°56	11°37	6°46	12°19	7°13	1°35	2° 3	3°20	5° 1	14°37	M 25
T 26	2 17 15	2°32'41	19°47	16°41	25°49	23°40	11°43	6°42	12°20	7°14	1°34	2° 0	3°17	5° 8	14°34	T 26
W 27	2 21 11	3°32'38	2♂40	18°12	27° 3	24°25	11°49	6°39	12°22	7°15	1°33	1°D59	3°13	5°15	14°32	W 27
T 28	2 25 8	4°32'38	15°10	19°46	28°18	25° 9	11°55	6°35	12°24	7°17	1°32	2° 0	3°10	5°21	14°29	T 28
F 29	2 29 5	5°32'39	27°23	21°20	29°32	25°54	12° 1	6°31	12°26	7°18	1°31	2° 1	3° 7	5°28	14°26	F 29
S 30	2 33 1	6°32'41	9♂23	22°56	0♂46	26°39	12° 7	6°27	12°28	7°19	1°30	2°R 1	3° 4	5°35	14°24	S 30
S 31	2 36 58	7♂32'45	21♂16	24♂32	2♂ 1	27♂24	12♂12	6♂24	12♂30	7♂21	1°Y29	2♂ 0	3♂ 1	5♂41	14°Y21	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	3s 5	20s50	1n16	7s18	2s44	9s 0	0n40	22s30	1s16	18n35	0n25	19n37	2s 2	23s20	0s24	22s22	0n55	14s40	16s54	23s23	23s23	6s35	7n44	1n40					
S 2	3 28	17 43	2 15	6 36	2 28	9 29	0 38	22 38	1 16	18 33	0 25	19 37	2 2	23 20	0 24	22 22	0 55	14 40	16 54	23 23	23 23	6 32	7 43	1 40					
S 3	3 51	13 55	3 7	5 52	2 10	9 58	0 36	22 45	1 17	18 31	0 26	19 36	2 2	23 20	0 24	22 22	0 55	14 41	16 54	23 23	23 23	6 29	7 41	1 40					
M 4	4 14	9 36	3 52	5 7	1 51	10 26	0 34	22 53	1 17	18 29	0 26	19 36	2 2	23 20	0 24	22 22	0 55	14 41	16 54	23 23	23 23	6 27	7 40	1 40					
T 5	4 38	4 55	4 26	4 23	1 31	10 55	0 31	23 0	1 17	18 26	0 26	19 36	2 2	23 20	0 24	22 22	0 55	14 42	16 54	23 23	23 23	6 24	7 39	1 39					
W 6	5 1	0 3	4 49	3 40	1 11	11 23	0 29	23 7	1 17	18 24	0 26	19 35	2 2	23 20	0 24	22 22	0 55	14 42	16 54	23 24	23 23	6 21	7 38	1 39					
T 7	5 24	4n52	4 59	2 59	0 50	11 51	0 27	23 14	1 18	18 22	0 26	19 35	2 3	23 20	0 24	22 22	0 55	14 43	16 54	23 24	23 24	6 18	7 37	1 39					
F 8	5 47	9 39	4 56	2 22	0 30	12 19	0 24	23 20	1 18	18 20	0 26	19 34	2 3	23 20	0 24	22 22	0 55	14 43	16 54	23 24	23 24	6 15	7 36	1 39					
S 9	6 10	14 6	4 39	1 49	0 10	12 46	0 22	23 26	1 18	18 18	0 27	19 34	2 3	23 20	0 24	22 22	0 55	14 43	16 53	23 25	23 24	6 13	7 34	1 39					
S 10	6 33	18 1	4 9	1 21	0n 9	13 13	0 19	23 33	1 18	18 15	0 27	19 34	2 3	23 20	0 24	22 22	0 55	14 44	16 53	23 25	23 24	6 10	7 33	1 39					
M11	6 55	21 9	3 25	0 58	0 27	13 40	0 17	23 39	1 19	18 13	0 27	19 33	2 3	23 19	0 24	22 22	0 55	14 44	16 53	23 25	23 24	6 7	7 32	1 39					
T 12	7 18	23 17	2 31	0 41	0 43	14 7	0 14	23 44	1 19	18 11	0 27	19 33	2 3	23 19	0 24	22 22	0 55	14 44	16 53	23 26	23 24	6 4	7 31	1 39					
W13	7 41	24 13	1 28	0 30	0 58	14 33	0 12	23 50	1 19	18 9	0 27	19 32	2 3	23 19	0 24	22 22	0 55	14 45	16 53	23 26	23 24	6 1	7 30	1 39					
T 14	8 3	23 47	0 19	0 24	1 11	14 59	0 9	23 55	1 19	18 7	0 27	19 32	2 3	23 19	0 24	22 22	0 55	14 45	16 53	23 26	23 24	5 58	7 29	1 39					
F 15	8 25	21 57	0s52	0 23	1 23	15 24	0 7	24 0	1 19	18 5	0 28	19 31	2 3	23 19	0 24	22 22	0 55	14 45	16 53	23 26	23 24	5 56	7 27	1 39					
S 16	8 48	18 49	2 2	0 28	1 33	15 49	0 4	24 5	1 20	18 3	0 28	19 30	2 4	23 19	0 24	22 22	0 55	14 46	16 53	23 26	23 24	5 53	7 26	1 39					
S 17	9 10	14 32	3 6	0 38	1 42	16 14	0 1	24 9	1 20	18 1	0 28	19 30	2 4	23 19	0 24	22 22	0 55	14 46	16 53	23 26	23 25	5 50	7 25	1 38					
M18	9 32	9 22	4 0	0 52	1 49	16 38	0s 1	24 14	1 20	18 0	0 28	19 29	2 4	23 19	0 24	22 22	0 55	14 46	16 52	23 26	23 25	5 47	7 24	1 38					
T 19	9 54	3 35	4 39	1 11	1 55	17 2	0 4	24 18	1 20	17 58	0 28	19 29	2 4	23 18	0 24	22 22	0 55	14 47	16 52	23 26	23 25	5 44	7 23	1 38					
W 20	10 15	2s26	5 0	1 33	1 59	17 25	0 6	24 22	1 20	17 56	0 28	19 28	2 4	23 18	0 24	22 22	0 55	14 47	16 52	23 26	23 25	5 42	7 22	1 38					
T 21	10 37	8 20	5 1	1 58	2 2	17 48	0 9	24 25	1 20	17 54	0 29	19 28	2 4	23 18	0 24	22 22	0 55	14 47	16 52	23 26	23 25	5 39	7 21	1 38					
F 22	10 58	13 44	4 42	2 26	2 4	18 11	0 12	24 29	1 21	17 52	0 29	19 27	2 4	23 18	0 24	22 22	0 54	14 47	16 52	23 26	23 25	5 36	7 19	1 38					
S 23	11 19	18 15	4 5	2 57	2 5	18 33	0 14	24 32	1 21	17 51	0 29	19 26	2 4	23 18	0 24	22 22	0 54	14 48	16 52	23 27	23 25	5 33	7 18	1 38					
S 24	11 40	21 36	3 13	3 30	2 5	18 54	0 17	24 35	1 21	17 49	0 29	19 26	2 4	23 18	0 24	22 22	0 54	14 48	16 52	23 27	23 25	5 30	7 17	1 38					
M25	12 1	23 35	2 12	4 4	2 5	19 15	0 20	24 37	1 21	17 47	0 29	19 25	2 4	23 18	0 24	22 22	0 54	14 48	16 51	23 27	23 25	5 27	7 16	1 38					
T 26	12 22	24 9	1 5	4 40	2 3	19 36	0 23	24 40	1 21	17 46	0 30	19 24	2 4	23 17	0 24	22 22	0 54	14 48	16 51	23 27	23 25	5 25	7 15	1 38					
W27	12 43	23 22	0n 4	5 17	2 1	19 56	0 25	24 42	1 21	17 44	0 30	19 24	2 4	23 17	0 24	22 22	0 54	14 49	16 51	23 27	23 25	5 22	7 14	1 37					
T 28	13 3	21 26	1 10	5 55	1 58	20 15	0 28	24 44	1 21	17 43	0 30	19 23	2 5	23 17	0 24	22 22	0 54	14 49	16 51	23 27	23 25	5 19	7 13	1 37					
F 29	13 23	18 33	2 12	6 34	1 54	20 34	0 31	24 45	1 21	17 41	0 30	19 22	2 5	23 17	0 24	22 22	0 54	14 49	16 51	23 27	23 26	5 16	7 12	1 37					
S 30	13 43	14 55	3 7	7 13	1 50	20 52	0 33	24 46	1 21	17 40	0 30	19 22	2 5	23 17	0 24	22 21	0 54	14 49	16 50	23 27	23 26	5 13	7 10	1 37					
S 31	14s 2	10s45	3n53	7s52	1n46	21s10	0s36	24s48	1s21	17n38	0n31	19n21	2s 5	23s16	0s24	22s21	0n54	14s49	16s50	23s27	23s26	5s11	7n 9	1n37					

