



Astrodienst Ephemeris Tables for the year 1951

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 1951

geocentric

JANUARY 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 39 21	9°34'12	7°13' 3	11°R47	21°322	13°22	4°42	2°15	7°R21	19°25	19°R29	21°R53	22°47	9°27	26°7	M 1
T 2	6 43 18	10°46'22	20°42	10°326	22°37	13°49	4°53	2°16	7°18	19°26	19°28	21°53	22°44	9°34	26°13	T 2
W 3	6 47 14	11°47'32	4°45	9° 5	23°52	14°36	5° 4	2°17	7°16	19°26	19°27	21°51	22°41	9°41	26°20	W 3
T 4	6 51 11	12°48'42	19°10	7°46	25° 8	15°24	5°15	2°18	7°13	19°27	19°26	21°47	22°38	9°47	26°26	T 4
F 5	6 55 7	13°49'53	3°57	6°32	26°23	16°11	5°27	2°19	7°11	19°28	19°25	21°39	22°34	9°54	26°33	F 5
S 6	6 59 4	14°51'04	18°58	5°25	27°38	16°58	5°39	2°20	7° 8	19°28	19°24	21°30	22°31	10° 1	26°39	S 6
S 7	7 3 0	15°52'15	4°3 5	4°26	28°54	17°45	5°50	2°20	7° 6	19°29	19°23	21°20	22°28	10° 8	26°46	S 7
M 8	7 6 57	16°53'25	19° 7	3°36	0°9 9	18°32	6° 2	2°21	7° 3	19°29	19°22	21° 9	22°25	10°14	26°52	M 8
T 9	7 10 54	17°54'36	3°55	2°57	1°24	19°20	6°14	2°21	7° 1	19°30	19°21	21° 0	22°22	10°21	26°59	T 9
W10	7 14 50	18°55'46	18°21	2°27	2°39	20° 7	6°26	2°22	6°58	19°30	19°19	20°54	22°19	10°28	27° 5	W10
T 11	7 18 47	19°56'56	2°20	2° 7	3°55	20°54	6°38	2°22	6°56	19°30	19°18	20°50	22°15	10°35	27°12	T 11
F 12	7 22 43	20°58'05	15°50	1°57	5°10	21°42	6°50	2°R22	6°53	19°31	19°17	20°D48	22°12	10°41	27°18	F 12
S 13	7 26 40	21°59'14	28°53	1°D56	6°25	22°29	7° 3	2°22	6°51	19°31	19°16	20°48	22° 9	10°48	27°24	S 13
S 14	7 30 36	23° 0'22	11°32	2° 3	7°40	23°16	7°15	2°22	6°48	19°31	19°14	20°49	22° 6	10°55	27°31	S 14
M15	7 34 33	24° 1'29	23°51	2°18	8°56	24° 3	7°27	2°21	6°46	19°31	19°13	20°R49	22° 3	11° 1	27°37	M15
T 16	7 38 29	25° 2'36	5°56	2°39	10°11	24°51	7°40	2°21	6°43	19°32	19°12	20°49	21°59	11° 8	27°43	T 16
W17	7 42 26	26° 3'42	17°51	3° 8	11°26	25°38	7°52	2°21	6°41	19°32	19°11	20°46	21°56	11°15	27°49	W17
T 18	7 46 23	27° 4'47	29°42	3°42	12°41	26°25	8° 5	2°20	6°38	19°32	19° 9	20°41	21°53	11°22	27°55	T 18
F 19	7 50 19	28° 5'51	11°33	4°22	13°56	27°12	8°18	2°19	6°36	19°32	19° 8	20°33	21°50	11°28	28° 2	F 19
S 20	7 54 16	29° 6'55	23°28	5° 6	15°12	28° 0	8°31	2°18	6°34	19°32	19° 7	20°24	21°47	11°35	28° 8	S 20
S 21	7 58 12	0° 7'58	5°28	5°55	16°27	28°47	8°43	2°18	6°31	19°R32	19° 5	20°14	21°44	11°42	28°14	S 21
M22	8 2 9	1° 9'00	17°36	6°47	17°42	29°34	8°56	2°17	6°29	19°32	19° 4	20° 4	21°40	11°48	28°20	M22
T 23	8 6 5	2°10'02	29°54	7°43	18°57	0°21	9° 9	2°15	6°27	19°32	19° 3	19°55	21°37	11°55	28°26	T 23
W24	8 10 2	3°11'02	12°21	8°42	20°12	1° 9	9°22	2°14	6°25	19°32	19° 1	19°48	21°34	12° 2	28°32	W24
T 25	8 13 58	4°12'02	24°59	9°44	21°27	1°56	9°35	2°13	6°22	19°32	19° 0	19°43	21°31	12° 9	28°37	T 25
F 26	8 17 55	5°13'01	7°48	10°49	22°42	2°43	9°49	2°11	6°20	19°32	18°58	19°40	21°28	12°15	28°43	F 26
S 27	8 21 52	6°14'00	20°48	11°56	23°57	3°30	10° 2	2°10	6°18	19°32	18°57	19°D39	21°25	12°22	28°49	S 27
S 28	8 25 48	7°14'57	4°0 0	13° 5	25°12	4°18	10°15	2° 8	6°16	19°31	18°56	19°40	21°21	12°29	28°55	S 28
M29	8 29 45	8°15'54	17°26	14°16	26°27	5° 5	10°29	2° 6	6°14	19°31	18°54	19°41	21°18	12°36	29° 1	M29
T 30	8 33 41	9°16'51	1°16 7	15°29	27°42	5°52	10°42	2° 5	6°12	19°31	18°53	19°43	21°15	12°42	29° 6	T 30
W31	8 37 38	10°17'47	15°16 3	16°34	28°57	6°39	10°56	2° 3	6°10	19°30	18°51	19°R43	21°12	12°49	29°12	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23s 5	4s 1	1s20	20s34	2n23	22s53	1s 9	18s 2	1s10	10s47	1s 4	1n11	2n16	23n34	0n20	6s 6
T 2	23 1	10 21	2 26	20 25	2 37	22 43	1 11	17 48	1 10	10 43	1 4	1 11	2 16	23 34	0 20	6 6
W 3	22 55	16 21	3 27	20 18	2 50	22 32	1 12	17 34	1 9	10 39	1 4	1 10	2 16	23 35	0 20	6 7
T 4	22 50	21 37	4 15	20 13	3 1	22 20	1 14	17 20	1 9	10 35	1 4	1 10	2 17	23 35	0 20	6 7
F 5	22 44	25 40	4 48	20 9	3 8	22 7	1 15	17 5	1 9	10 30	1 4	1 10	2 17	23 35	0 20	6 7
S 6	22 37	28 0	5 2	20 7	3 14	21 54	1 17	16 50	1 8	10 26	1 4	1 10	2 17	23 35	0 20	6 7
S 7	22 30	28 18	4 55	20 6	3 17	21 40	1 18	16 36	1 8	10 21	1 3	1 10	2 17	23 35	0 20	6 7
M 8	22 23	26 30	4 28	20 7	3 17	21 25	1 19	16 21	1 7	10 17	1 3	1 10	2 18	23 35	0 20	6 7
T 9	22 15	22 53	3 42	20 9	3 16	21 10	1 21	16 5	1 7	10 12	1 3	1 10	2 18	23 35	0 20	6 8
W10	22 7	17 56	2 44	20 13	3 13	20 54	1 22	15 50	1 7	10 8	1 3	1 11	2 18	23 36	0 20	6 8
T 11	21 58	12 9	1 37	20 17	3 8	20 38	1 23	15 35	1 6	10 3	1 3	1 11	2 19	23 36	0 20	6 8
F 12	21 49	6 0	0 26	20 23	3 3	20 20	1 24	15 19	1 6	9 59	1 3	1 11	2 19	23 36	0 20	6 8
S 13	21 39	0n13	0n43	20 30	2 56	20 3	1 25	15 3	1 5	9 54	1 3	1 11	2 19	23 36	0 20	6 8
S 14	21 29	6 14	1 49	20 38	2 48	19 45	1 26	14 47	1 5	9 50	1 3	1 12	2 19	23 36	0 20	6 8
M15	21 19	11 51	2 47	20 46	2 40	19 26	1 27	14 31	1 5	9 45	1 3	1 12	2 20	23 36	0 20	6 8
T 16	21 8	16 55	3 37	20 55	2 31	19 6	1 28	14 15	1 4	9 40	1 3	1 12	2 20	23 36	0 20	6 8
W17	20 57	21 16	4 17	21 3	2 21	18 46	1 28	13 59	1 4	9 35	1 3	1 13	2 20	23 36	0 20	6 8
T 18	20 45	24 45	4 46	21 12	2 12	18 26	1 29	13 42	1 3	9 31	1 3	1 13	2 21	23 37	0 20	6 8
F 19	20 33	27 10	5 2	21 21	2 2	18 5	1 30	13 26	1 3	9 26	1 3	1 14	2 21	23 37	0 20	6 8
S 20	20 21	28 22	5 5	21 29	1 52	17 43	1 30	13 9	1 2	9 21	1 2	1 14	2 21	23 37	0 20	6 8
S 21	20 8	28 15	4 55	21 37	1 42	17 21	1 31	12 52	1 2	9 16	1 2	1 15	2 21	23 37	0 20	6 8
M22	19 55	26 47	4 32	21 45	1 32	16 59	1 31	12 35	1 1	9 11	1 2	1 16	2 22	23 37	0 20	6 8
T 23	19 41	24 0	3 55	21 52	1 22	16 36	1 32	12 18	1 1	9 6	1 2	1 16	2 22	23 37	0 20	6 8
W24	19 27	20 5	3 7	21 58	1 12	16 13	1 32	12 1	1 0	9 1	1 2	1 17	2 22	23 37	0 20	6 8
T 25	19 13	15 13	2 9	22 4	1 2	15 49	1 32	11 43	1 0	8 56	1 2	1 18	2 23	23 37	0 20	6 8
F 26	18 58	9 38	1 4	22 8	0 52	15 25	1 32	11 26	0 59	8 51	1 2	1 19	2 23	23 38	0 20	6 7
S 27	18 43	3 33	0s 6	22 12	0 43	15 0	1 32	11 8	0 59	8 46	1 2	1 20	2 23	23 38	0 20	6 7
S 28	18 28	2s46	1 17	22 15	0 33	14 35	1 33	10 51	0 58	8 41	1 2	1 21	2 23	23 38	0 20	6 7
M29	18 12	9 5	2 25	22 17	0 24	14 9	1 32	10 33	0 58	8 36	1 2	1 21	2 24	23 38	0 20	6 7
T 30	17 56	15 5	3 26	22 18	0 15	13 43	1 32	10 15	0 57	8 31	1 2	1 22	2 24	23 38	0 20	6 7
W31	17s40	20s26	4s16	22s18	0n 6	13s17	1s32	9s57	0s57	8s26	1s 2	1n23	2n24	23n38	0n20	6s 7

Julian Day Number = 2433647.5, Delta T = 29.32 sec
Ecliptic obliquity = 23°26'53, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°03'21, Lahiri = 23°10'22

ASTRODIENST EPHEMERIS for the year 1951

geocentric

FEBRUARY 1951

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 41 34	11°18'42"	29°11'14"	18°00'	0°12'	7°26'	11°09'	2°R 1	6°R 8	19°R30	18°R50	19°R41	21°R 9	12°R56	29°R17	T 1
F 2	8 45 31	12°19'37"	13°27'40"	19°18'	1°27'	8°13'	11°23'	1°58'	6°06'	19°R30	18°R48	19°R38	21° 5	13° 2	29°23'	F 2
S 3	8 49 27	13°20'30"	28°15'	20°37'	2°42'	9° 0'	11°36'	1°56'	6° 4'	19°29'	18°47'	19°34'	21° 2	13° 9	29°28'	S 3
S 4	8 53 24	14°21'23"	12°35'55"	21°57'	3°56'	9°48'	11°50'	1°54'	6° 2'	19°29'	18°46'	19°28'	20°59'	13°16'	29°34'	S 4
M 5	8 57 21	15°22'15"	27°32'	23°19'	5°11'	10°35'	12° 4'	1°51'	6° 0'	19°28'	18°44'	19°23'	20°56'	13°23'	29°39'	M 5
T 6	9 1 117	16°23'06"	12°31'	24°41'	6°26'	11°22'	12°18'	1°49'	5°58'	19°28'	18°43'	19°18'	20°53'	13°29'	29°44'	T 6
W 7	9 5 14	17°23'56"	26°13'	26° 5'	7°41'	12° 9'	12°31'	1°46'	5°57'	19°27'	18°41'	19°14'	20°50'	13°36'	29°49'	W 7
T 8	9 9 10	18°24'44"	10°11'5	27°30'	8°56'	12°56'	12°45'	1°44'	5°55'	19°27'	18°40'	19°13'	20°46'	13°43'	29°55'	T 8
F 9	9 13 7	19°25'31"	23°34'	28°56'	10°10'	13°43'	12°59'	1°41'	5°53'	19°26'	18°38'	19°D12	20°43'	13°49'	29°59'	F 9
S 10	9 17 3	20°26'16"	6°V39	0°22'	11°25'	14°30'	13°13'	1°38'	5°51'	19°26'	18°37'	19°13'	20°40'	13°56'	0° 5	S 10
S 11	9 21 0	21°27'00"	19°22'	1°50'	12°40'	15°17'	13°27'	1°35'	5°50'	19°25'	18°35'	19°15'	20°37'	14° 3	0°10'	S 11
M12	9 24 56	22°27'42"	1°B46	3°19'	13°54'	16° 4'	13°41'	1°32'	5°48'	19°24'	18°34'	19°17'	20°34'	14°10'	0°15'	M12
T 13	9 28 53	23°28'23"	13°55'	4°48'	15° 9'	16°51'	13°55'	1°29'	5°47'	19°23'	18°33'	19°18'	20°31'	14°16'	0°19'	T 13
W14	9 32 50	24°29'02"	25°53'	6°19'	16°24'	17°37'	14° 9'	1°25'	5°45'	19°23'	18°31'	19°R18	20°27'	14°23'	0°24'	W14
T 15	9 36 46	25°29'40"	7°II46	7°50'	17°38'	18°24'	14°24'	1°22'	5°44'	19°22'	18°30'	19°18'	20°24'	14°30'	0°29'	T 15
F 16	9 40 43	26°30'15"	19°38'	9°23'	18°53'	19°11'	14°38'	1°19'	5°43'	19°21'	18°28'	19°16'	20°21'	14°37'	0°34'	F 16
S 17	9 44 39	27°30'49"	1°B34	10°56'	20° 7'	19°58'	14°52'	1°15'	5°41'	19°20'	18°27'	19°13'	20°18'	14°43'	0°38'	S 17
S 18	9 48 36	28°31'22"	13°38'	12°30'	21°22'	20°45'	15° 6'	1°12'	5°40'	19°19'	18°25'	19°10'	20°15'	14°50'	0°43'	S 18
M19	9 52 32	29°31'52"	25°52'	14° 5'	22°36'	21°32'	15°20'	1° 8'	5°39'	19°18'	18°24'	19° 6'	20°11'	14°57'	0°47'	M19
T 20	9 56 29	0°X32'21"	8°Q19	15°41'	23°50'	22°18'	15°35'	1° 5'	5°37'	19°18'	18°23'	19° 3'	20° 8'	15° 3	0°52'	T 20
W21	10 0 25	1°32'48"	21° 1'	17°18'	25° 5'	23° 5'	15°49'	1° 1'	5°36'	19°17'	18°21'	19° 1'	20° 5'	15°10'	0°56'	W21
T 22	10 4 22	2°33'14"	3°II57	18°56'	26°19'	23°52'	16° 3'	0°57'	5°35'	19°16'	18°20'	19° 0'	20° 2'	15°17'	1° 0'	T 22
F 23	10 8 19	3°33'37"	17° 9'	20°35'	27°33'	24°38'	16°18'	0°53'	5°34'	19°15'	18°18'	18°D59	19°59'	15°24'	1° 4'	F 23
S 24	10 12 15	4°34'00"	0°B33	22°14'	28°48'	25°25'	16°32'	0°49'	5°33'	19°14'	18°17'	18°59'	19°56'	15°30'	1° 8'	S 24
S 25	10 16 12	5°34'20"	14°10'	23°55'	0°V 2	26°11'	16°46'	0°45'	5°32'	19°12'	18°16'	19° 0'	19°52'	15°37'	1°12'	S 25
M26	10 20 8	6°34'39"	27°58'	25°37'	1°16'	26°58'	17° 1'	0°41'	5°31'	19°11'	18°14'	19° 1'	19°49'	15°44'	1°16'	M26
T 27	10 24 5	7°34'57"	11°II55	27°19'	2°30'	27°44'	17°15'	0°37'	5°31'	19°10'	18°13'	19° 2'	19°46'	15°50'	1°20'	T 27
W28	10 28 1	8°X35'14"	25°II59	29°33'	3°V44	28°X31	17°X30	0°B33	5°B30	19°B 9	18°Q12	19°X 3	19°X43	15°II57	1°B24	W28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s23	24s44	4s51	22s17	0s 2	12s50	1s32	9s39	0s56	8s20	1s 2	1n24	2n24	23n38	0n20	6s 6	1n39	23n28	8n44	4s 5	3s31	27n24	17s59	5n28			
F 2	17 7	27 33	5 9	22 14	0 11	12 24	1 32	9 21	0 56	8 15	1 2	1 26	2 25	23 38	0 20	6 6	1 39	23 29	8 44	4 6	3 32	27 25	17 59	5 28			
S 3	16 49	28 33	5 7	22 11	0 19	11 56	1 31	9 3	0 55	8 10	1 2	1 27	2 25	23 38	0 20	6 6	1 39	23 29	8 44	4 8	3 33	27 26	17 58	5 29			
S 4	16 32	27 33	4 45	22 6	0 27	11 29	1 31	8 45	0 55	8 5	1 2	1 28	2 25	23 38	0 20	6 6	1 39	23 30	8 44	4 10	3 34	27 27	17 58	5 29			
M 5	16 14	24 39	4 5	22 0	0 35	11 1	1 30	8 26	0 54	7 59	1 2	1 29	2 25	23 38	0 20	6 6	1 39	23 30	8 44	4 12	3 36	27 28	17 57	5 29			
T 6	15 56	20 13	3 9	21 53	0 42	10 33	1 30	8 8	0 54	7 54	1 2	1 30	2 26	23 39	0 20	6 5	1 39	23 31	8 45	4 14	3 37	27 29	17 57	5 30			
W 7	15 38	14 42	2 2	21 45	0 49	10 4	1 29	7 49	0 53	7 49	1 2	1 32	2 26	23 39	0 20	6 5	1 39	23 31	8 45	4 16	3 38	27 30	17 56	5 30			
T 8	15 19	8 33	0 50	21 35	0 56	9 35	1 28	7 31	0 52	7 43	1 2	1 33	2 26	23 39	0 20	6 5	1 39	23 32	8 45	4 16	3 39	27 31	17 56	5 31			
F 9	15 0	2 11	0n24	21 24	1 3	9 6	1 27	7 12	0 52	7 38	1 1	1 34	2 26	23 39	0 20	6 5	1 39	23 32	8 45	4 16	3 41	27 32	17 56	5 31			
S 10	14 41	4n 5	1 34	21 12	1 9	8 37	1 27	6 54	0 51	7 33	1 1	1 36	2 27	23 39	0 20	6 4	1 39	23 33	8 45	4 16	3 42	27 33	17 55	5 32			
S 11	14 21	10 1	2 38	20 59	1 15	8 8	1 26	6 35	0 51	7 27	1 1	1 37	2 27	23 39	0 20	6 4	1 39	23 33	8 45	4 15	3 43	27 34	17 55	5 32			
M12	14 2	15 25	3 32	20 44	1 21	7 38	1 25	6 16	0 50	7 22	1 1	1 38	2 27	23 39	0 20	6 4	1 40	23 34	8 45	4 15	3 44	27 35	17 54	5 33			
T 13	13 42	20 6	4 16	20 28	1 27	7 8	1 24	5 58	0 50	7 16	1 1	1 40	2 27	23 39	0 20	6 3	1 40	23 34	8 45	4 14	3 46	27 36	17 54	5 33			
W14	13 22	23 54	4 48	20 11	1 32	6 38	1 22	5 39	0 49	7 11	1 1	1 41	2 27	23 39	0 20	6 3	1 40	23 35	8 45	4 14	3 47	27 37	17 53	5 34			
T 15	13 2	26 40	5 8	19 52	1 37	6 8	1 21	5 20	0 48	7 5	1 1	1 43	2 28	23 39	0 20	6 3	1 40	23 36	8 45	4 14	3 48	27 38	17 53	5 34			
F 16	12 41	28 16	5 14	19 32	1 41	5 38	1 20	5 1	0 48	7 0	1 1	1 44	2 28	23 39	0 20	6 2	1 40	23 36	8 45	4 15	3 49	27 39	17 52	5 35			
S 17	12 20	28 33	5 7	19 11	1 45	5 7	1 19	4 42	0 47	6 54	1 1	1 46	2 28	23 39	0 20	6 2	1 40	23 37	8 45	4 16	3 51	27 40	17 51	5 35			
S 18	12 0	27 30	4 46	18 48	1 49	4 37	1 17	4 23	0 47	6 49	1 1	1 47	2 28	23 39	0 20	6 2	1 40	23 37	8 45	4 17	3 52	27 40	17 51	5 36			
M19	11 38	25 6	4 12	18 25	1 53	4 6	1 16	4 4	0 46	6 43	1 1	1 49	2 29	23 39	0 20	6 1	1 40	23 37	8 45	4 19	3 53	27 41	17 50	5 36			
T 20	11 17	21 30	3 26	17 59	1 56	3 35	1 14	3 45	0 46	6 38	1 1	1 51	2 29	23 39	0 20	6 1	1 40	23 38	8 45	4 20	3 54	27 42	17 50	5 37			
W21	10 56	16 50	2 28	17 33	1 59	3 4	1 13	3 26	0 45	6 32	1 1	1 52	2 29	23 39	0 20	6 0	1 40	23 38	8 45	4 21	3 56	27 43	17 49	5 37			
T 22	10 34	11 20	1 22	17 5	2 2	2 33	1 11	3 7	0 44	6 27	1 1	1 54	2 29	23 39	0 20	6 0	1 40	23 39	8 45	4 21	3 57	27 44	17 49	5 38			
F 23	10 12	5 14	0 10	16 35	2 4	2 2	1 9	2 48	0 44	6 21	1 1	1 56	2 29	23 40	0 20	6 0	1 40	23 39	8 45	4 22	3 58	27 45	17 48	5 39			
S 24	9 50	1s11	1s 4	16 5	2 5	1 31	1 7	2 29	0 43	6 15	1 1	1 58	2 29	23 40	0 20	5 59	1 40	23 40	8 45	4 22	3 59	27 46	17 47	5 39			
S 25	9 28	7 40	2 15	15 33	2 7	0 59	1 6	2 10	0 43	6 10	1 1	1 59	2 30	23 40	0 20	5 59	1 40	23 40	8 45	4 21	4 1	27 46	17 47	5 40			
M26	9 6	13 51	3 19	14 59	2 8	0 28	1 4	1 51	0 42	6 4	1 1	2 1	2 30	23 40	0 20	5 58	1 40	23 41	8 45	4 21	4 2	27 47	17 46	5 40			
T 27	8 44	19 25	4 13	14 25	2 8	0n 3	1 2	1 32	0 41	5 59	1 1	2 3	2 30	23 40	0 20	5 58	1 40	23 41	8 45	4 20	4 3	27 48	17 46	5 41			
W28	8s21	23s58	4s51	13s49	2s 8	0n34	1s 0	1s13	0s41	5s53	1s 1	2n 5	2n30	23n40	0n20	5s57	1n40	23n42	8n45	4s20	4s 4	27n49	17s45	5n41			

Julian Day Number = 2433678.5, Delta T = 29.35 sec

Ecliptic obliquity = 23°26'53", Nutation = 0°00'04", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°03'25", Lahiri = 23°10'26"

ASTRODIENST EPHEMERIS for the year 1951

geocentric

MARCH 1951

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 31 58	9 ^h 35'28"	10 ^h 09'	0 ^h 48'	4 ^h 58'	29 ^h 17'	17 ^h 44'	0 ^h 29'	5 ^h 29'	19 ^h 08'	18 ^h 10'	19 ^h 03'	19 ^h 40'	16 ^h 11'	1 ^h 28'	T 1
F 2	10 35 54	10 ^h 35'42"	24 ^h 22'	2 ^h 34'	6 ^h 12'	0 ^h 04'	17 ^h 59'	0 ^h 24'	5 ^h 28'	19 ^h 07'	18 ^h 09'	19 ^h 03'	19 ^h 37'	16 ^h 11'	1 ^h 31'	F 2
S 3	10 39 51	11 ^h 35'54"	8 ^h 37'	4 ^h 20'	7 ^h 26'	0 ^h 50'	18 ^h 13'	0 ^h 20'	5 ^h 28'	19 ^h 06'	18 ^h 08'	19 ^h 02'	19 ^h 33'	16 ^h 17'	1 ^h 35'	S 3
S 4	10 43 48	12 ^h 36'05"	22 ^h 49'	6 ^h 08'	8 ^h 40'	1 ^h 36'	18 ^h 28'	0 ^h 16'	5 ^h 27'	19 ^h 04'	18 ^h 06'	19 ^h 02'	19 ^h 30'	16 ^h 24'	1 ^h 39'	S 4
M 5	10 47 44	13 ^h 36'14"	6 ^h 57'	7 ^h 57'	9 ^h 54'	2 ^h 23'	18 ^h 42'	0 ^h 11'	5 ^h 27'	19 ^h 03'	18 ^h 05'	19 ^h 01'	19 ^h 27'	16 ^h 31'	1 ^h 42'	M 5
T 6	10 51 41	14 ^h 36'21"	20 ^h 56'	9 ^h 47'	11 ^h 08'	3 ^h 09'	18 ^h 57'	0 ^h 07'	5 ^h 26'	19 ^h 02'	18 ^h 04'	19 ^h 00'	19 ^h 24'	16 ^h 38'	1 ^h 45'	T 6
W 7	10 55 37	15 ^h 36'26"	4 ^h 42'	11 ^h 38'	12 ^h 21'	3 ^h 55'	19 ^h 11'	0 ^h 02'	5 ^h 26'	19 ^h 01'	18 ^h 02'	19 ^h 00'	19 ^h 21'	16 ^h 44'	1 ^h 49'	W 7
T 8	10 59 34	16 ^h 36'30"	18 ^h 15'	13 ^h 30'	13 ^h 35'	4 ^h 42'	19 ^h 26'	29 ^h 58'	5 ^h 25'	18 ^h 59'	18 ^h 01'	19 ^h 00'	19 ^h 17'	16 ^h 51'	1 ^h 52'	T 8
F 9	11 03 30	17 ^h 36'32"	1 ^h 30'	15 ^h 23'	14 ^h 49'	5 ^h 28'	19 ^h 40'	29 ^h 53'	5 ^h 25'	18 ^h 58'	18 ^h 00'	19 ^h 00'	19 ^h 14'	16 ^h 58'	1 ^h 55'	F 9
S 10	11 07 27	18 ^h 36'31"	14 ^h 27'	17 ^h 18'	16 ^h 03'	6 ^h 14'	19 ^h 55'	29 ^h 49'	5 ^h 25'	18 ^h 57'	17 ^h 59'	19 ^h 00'	19 ^h 11'	17 ^h 04'	1 ^h 58'	S 10
S 11	11 11 23	19 ^h 36'29"	27 ^h 07'	19 ^h 13'	17 ^h 16'	7 ^h 00'	20 ^h 09'	29 ^h 44'	5 ^h 24'	18 ^h 55'	17 ^h 57'	19 ^h 00'	19 ^h 08'	17 ^h 11'	2 ^h 01'	S 11
M 12	11 15 20	20 ^h 36'25"	9 ^h 31'	21 ^h 09'	18 ^h 30'	7 ^h 46'	20 ^h 24'	29 ^h 39'	5 ^h 24'	18 ^h 54'	17 ^h 56'	19 ^h 00'	19 ^h 05'	17 ^h 18'	2 ^h 04'	M 12
T 13	11 19 17	21 ^h 36'18"	21 ^h 41'	23 ^h 06'	19 ^h 43'	8 ^h 32'	20 ^h 38'	29 ^h 35'	5 ^h 24'	18 ^h 52'	17 ^h 55'	19 ^h 00'	19 ^h 02'	17 ^h 25'	2 ^h 06'	T 13
W 14	11 23 13	22 ^h 36'10"	3 ^h 11'	25 ^h 04'	20 ^h 57'	9 ^h 18'	20 ^h 53'	29 ^h 30'	5 ^h 24'	18 ^h 51'	17 ^h 54'	18 ^h 59'	18 ^h 58'	17 ^h 31'	2 ^h 09'	W 14
T 15	11 27 10	23 ^h 35'59"	15 ^h 36'	27 ^h 02'	22 ^h 10'	10 ^h 04'	21 ^h 08'	29 ^h 25'	5 ^h 24'	18 ^h 49'	17 ^h 53'	18 ^h 59'	18 ^h 55'	17 ^h 38'	2 ^h 12'	T 15
F 16	11 31 06	24 ^h 35'46"	27 ^h 28'	29 ^h 01'	23 ^h 23'	10 ^h 50'	21 ^h 22'	29 ^h 21'	5 ^h 24'	18 ^h 48'	17 ^h 52'	18 ^h 59'	18 ^h 52'	17 ^h 45'	2 ^h 14'	F 16
S 17	11 35 03	25 ^h 35'31"	9 ^h 24'	1 ^h 00'	24 ^h 37'	11 ^h 36'	21 ^h 37'	29 ^h 16'	5 ^h 24'	18 ^h 47'	17 ^h 51'	18 ^h 59'	18 ^h 49'	17 ^h 52'	2 ^h 17'	S 17
S 18	11 38 59	26 ^h 35'13"	21 ^h 28'	3 ^h 00'	25 ^h 50'	12 ^h 21'	21 ^h 51'	29 ^h 11'	5 ^h 24'	18 ^h 45'	17 ^h 50'	19 ^h 00'	18 ^h 46'	17 ^h 58'	2 ^h 19'	S 18
M 19	11 42 56	27 ^h 34'53"	3 ^h 24'	4 ^h 59'	27 ^h 03'	13 ^h 07'	22 ^h 06'	29 ^h 07'	5 ^h 25'	18 ^h 44'	17 ^h 48'	19 ^h 01'	18 ^h 43'	18 ^h 05'	2 ^h 21'	M 19
T 20	11 46 52	28 ^h 34'31"	16 ^h 16'	6 ^h 59'	28 ^h 16'	13 ^h 53'	22 ^h 20'	29 ^h 02'	5 ^h 25'	18 ^h 42'	17 ^h 47'	19 ^h 02'	18 ^h 39'	18 ^h 12'	2 ^h 23'	T 20
W 21	11 50 49	29 ^h 34'07"	29 ^h 06'	8 ^h 58'	29 ^h 29'	14 ^h 38'	22 ^h 35'	28 ^h 57'	5 ^h 25'	18 ^h 41'	17 ^h 46'	19 ^h 02'	18 ^h 36'	18 ^h 18'	2 ^h 25'	W 21
T 22	11 54 46	0 ^h 33'41"	12 ^h 17'	10 ^h 56'	0 ^h 42'	15 ^h 24'	22 ^h 49'	28 ^h 52'	5 ^h 26'	18 ^h 39'	17 ^h 45'	19 ^h 03'	18 ^h 33'	18 ^h 25'	2 ^h 27'	T 22
F 23	11 58 42	1 ^h 33'12"	25 ^h 48'	12 ^h 53'	1 ^h 55'	16 ^h 10'	23 ^h 04'	28 ^h 48'	5 ^h 26'	18 ^h 37'	17 ^h 44'	19 ^h 03'	18 ^h 30'	18 ^h 32'	2 ^h 29'	F 23
S 24	12 02 39	2 ^h 32'41"	9 ^h 28'	14 ^h 48'	3 ^h 08'	16 ^h 55'	23 ^h 18'	28 ^h 43'	5 ^h 27'	18 ^h 36'	17 ^h 43'	19 ^h 02'	18 ^h 27'	18 ^h 39'	2 ^h 31'	S 24
S 25	12 06 35	3 ^h 32'09"	23 ^h 43'	16 ^h 41'	4 ^h 21'	17 ^h 41'	23 ^h 32'	28 ^h 38'	5 ^h 27'	18 ^h 34'	17 ^h 42'	19 ^h 01'	18 ^h 23'	18 ^h 45'	2 ^h 33'	S 25
M 26	12 10 32	4 ^h 31'34"	8 ^h 11'	18 ^h 32'	5 ^h 34'	18 ^h 26'	23 ^h 47'	28 ^h 33'	5 ^h 28'	18 ^h 33'	17 ^h 42'	18 ^h 59'	18 ^h 20'	18 ^h 52'	2 ^h 34'	M 26
T 27	12 14 28	5 ^h 30'58"	22 ^h 23'	20 ^h 20'	6 ^h 46'	19 ^h 11'	24 ^h 01'	28 ^h 29'	5 ^h 28'	18 ^h 31'	17 ^h 41'	18 ^h 57'	18 ^h 17'	18 ^h 59'	2 ^h 36'	T 27
W 28	12 18 25	6 ^h 30'20"	6 ^h 48'	22 ^h 05'	7 ^h 59'	19 ^h 57'	24 ^h 16'	28 ^h 24'	5 ^h 29'	18 ^h 30'	17 ^h 40'	18 ^h 55'	18 ^h 14'	19 ^h 05'	2 ^h 37'	W 28
T 29	12 22 21	7 ^h 29'40"	21 ^h 10'	23 ^h 47'	9 ^h 12'	20 ^h 42'	24 ^h 30'	28 ^h 19'	5 ^h 30'	18 ^h 28'	17 ^h 39'	18 ^h 53'	18 ^h 11'	19 ^h 12'	2 ^h 39'	T 29
F 30	12 26 18	8 ^h 28'58"	5 ^h 25'	25 ^h 24'	10 ^h 24'	21 ^h 27'	24 ^h 44'	28 ^h 15'	5 ^h 31'	18 ^h 26'	17 ^h 38'	18 ^h 53'	18 ^h 08'	19 ^h 19'	2 ^h 40'	F 30
S 31	12 30 15	9 ^h 28'15"	19 ^h 31'	26 ^h 57'	11 ^h 36'	22 ^h 13'	24 ^h 59'	28 ^h 10'	5 ^h 31'	18 ^h 25'	17 ^h 37'	18 ^h 53'	18 ^h 04'	19 ^h 26'	2 ^h 41'	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
T 1	7s59	27s 8	5s13	13s11	2s 8	1n 6	0s58	0s54	0s40	5s47	1s 1	2n 6	2n30	23n40	0n20	5s57	1n40	23n42	8n45	4s20	4s 6	27n50	17s44	5n42					
F 2	7 36	28 35	5 15	12 33	2 7	1 37	0 55	0 35	0 39	5 42	1 1	2 8	2 30	23 40	0 20	5 56	1 40	23 42	8 45	4 20	4 7	27 50	17 44	5 43					
S 3	7 13	28 8	4 58	11 53	2 6	2 8	0 53	0 16	0 39	5 36	1 1	2 10	2 31	23 40	0 20	5 56	1 40	23 43	8 45	4 20	4 8	27 51	17 43	5 43					
S 4	6 50	25 51	4 23	11 11	2 4	2 39	0 51	0n 3	0 38	5 30	1 1	2 12	2 31	23 40	0 20	5 55	1 40	23 43	8 45	4 21	4 9	27 52	17 43	5 44					
M 5	6 27	21 58	3 32	10 29	2 2	3 11	0 49	0 22	0 38	5 25	1 1	2 14	2 31	23 40	0 20	5 55	1 40	23 44	8 45	4 21	4 11	27 53	17 42	5 44					
T 6	6 4	16 53	2 29	9 45	1 59	3 42	0 46	0 41	0 37	5 19	1 1	2 16	2 31	23 40	0 20	5 54	1 41	23 44	8 45	4 21	4 12	27 53	17 41	5 45					
W 7	5 41	11 0	1 18	9 0	1 56	4 13	0 44	1 0	0 36	5 13	1 1	2 18	2 31	23 40	0 20	5 54	1 41	23 44	8 45	4 21	4 13	27 54	17 41	5 46					
T 8	5 17	4 43	0 4	8 13	1 53	4 44	0 41	1 19	0 36	5 8	1 1	2 20	2 31	23 40	0 20	5 53	1 41	23 45	8 45	4 21	4 14	27 55	17 40	5 46					
F 9	4 54	1n39	1n 9	7 25	1 48	5 14	0 39	1 38	0 35	5 2	1 1	2 21	2 31	23 40	0 20	5 53	1 41	23 45	8 45	4 21	4 16	27 56	17 39	5 47					
S 10	4 30	7 48	2 16	6 37	1 44	5 45	0 36	1 57	0 34	4 56	1 1	2 23	2 31	23 40	0 20	5 52	1 41	23 45	8 45	4 21	4 17	27 56	17 39	5 47					
S 11	4 7	13 30	3 16	5 47	1 38	6 16	0 34	2 16	0 34	4 51	1 2	2 25	2 31	23 40	0 20	5 52	1 41	23 46	8 45	4 21	4 18	27 57	17 38	5 48					
M 12	3 43	18 32	4 5	4 56	1 32	6 46	0 31	2 34	0 33	4 45	1 2	2 27	2 32	23 40	0 20	5 51	1 41	23 46	8 45	4 21	4 19	27 58	17 37	5 49					
T 13	3 20	22 43	4 42	4 3	1 26	7 17	0 29	2 53	0 32	4 39	1 2	2 29	2 32	23 40	0 20	5 50	1 41	23 46	8 45	4 21	4 21	27 58	17 37	5 49					
W 14	2 56	25 54	5 6	3 10	1 19	7 47	0 26	3 12	0 32	4 34	1 2	2 31	2 32	23 40	0 20	5 50	1 41	23 47	8 45	4 22	4 22	27 59	17 36	5 50					
T 15	2 33	27 54	5 16	2 16	1 11	8 17	0 23	3 31	0 31	4 28	1 2	2 33	2 32	23 40	0 20	5 49	1 41	23 47	8 45	4 22	4 23	28 0	17 35	5 51					
F 16	2 9	28 39	5 13	1 22	1 3	8 47	0 20	3 49	0 31	4 22	1 2	2 35	2 32	23 40	0 20	5 49	1 41	23 47	8 45	4 22	4 24	28 0	17 35	5 51					
S 17	1 45	28 3	4 57	0 26	0 55	9 16	0 17	4 8	0 30	4 16	1 2	2 37	2 32	23 40	0 19	5 48	1 41	23 47	8 45	4 22	4 26	28 1	17 34	5 52					
S 18	1 21	26 8	4 27	0n30	0 46	9 46	0 15	4 26	0 29	4 11	1 2	2 39	2 32	23 40	0 19	5 48	1 41	23 48	8 44	4 21	4 27	28 2	17 33	5 53					
M 19	0 58	22 58	3 45	1 26	0 36	10 15	0 12	4 45	0 29	4 5	1 2	2 41	2 32	23 40	0 19	5 47	1 41	23 48	8 44	4 21	4 28	28 2	17 33	5 53					
T 20	0 34	18 42	2 52	2 23	0 26	10 44	0 9	5 3	0 28	3 59	1 2	2 43	2 32	23 40	0 19	5 46	1 41	23 48	8 44	4 21	4 29	28 3	17 32	5 54					
W 21	0 10	13 29	1 48	3 19	0 15	11 12	0 6	5 21	0 27	3 54	1 2	2 45	2 32	23 40	0 19	5 46	1 41	23 48	8 44	4 20	4 31	28 3	17 31	5 54					
T 22	0n13	7 32	0 37	4 16	0 4	11 41	0 3	5 39	0 27	3 48	1 2	2 47	2 32	23 40	0 19	5 45	1 41	23 49	8 44	4 20	4 32	28 4	17 30	5 55					
F 23	0 37	1 6	0s37	5 12	0n 7	12 9	0n 0	5 58	0 26	3 42	1 2	2 48	2 32	23 40	0 19	5 45	1 41	23 49	8 44	4 20	4 33	28 5	17 30	5 56					
S 24	1 1	5s31	1 51	6 8	0 19	12 37	0 3	6 16	0 25	3 37	1 2	2 50	2 32	23 40	0 19	5 44	1 41	23 49	8 44	4 20	4 34	28 5	17 29	5 56					
S 25	1 24	12 0	3 0	7 2	0 31	13 4	0 6	6 34	0 25	3 31	1 2	2 52	2 32	23 40	0 19	5 43	1 41	23 49	8 44	4 21	4 36	28 6	17 28	5 57					
M 26	1 48	17 56	3 58	7 56	0 43	13 32	0 9	6 51	0 24	3 25	1 2	2 54	2 32	23 40	0 19	5 43	1 41	23 50	8 44	4 22	4 37	28 6	17 28	5 58					
T 27	2 12	22 55	4 42	8 48	0 55	13 58	0 12	7 9	0 23	3 20	1 2	2 56	2 32	23 39	0 19	5 42	1 41	23 50	8 44	4 23	4 38	28 7	17 27	5 58					
W 28	2 35	26 31	5 8	9 39	1 7	14 25	0 15	7 27	0 23	3 14	1 2	2 58	2 32	23 39	0 19	5 41	1 41	23 50	8 43	4 23	4 39	28 8	17 26	5 59					
T 29	2 58	28 23	5 15	10 28	1 19	14 51	0 18	7 45	0 22	3 8	1 2	3 0	2 32	23 39	0 19	5 41	1 41	23 50	8 43	4 24	4 41	28 8	17 26	6 0					
F 30	3 22	28 22	5 12	11 14	1 31	15 17	0 22	8 2	0 21	3 3	1 2	3 2	2 32	23 39	0 19	5 40	1 41	23 50	8 43	4 24	4 42	28 9	17 25	6 0					
S 31	3n45	26s30	4s31	11n59	1n43	15n43	0n25	8n20	0s21	2s57	1s 3	3n 3	2n32	23n39	0n19	5s40	1n41	23n50	8n43	4s24	4s43	28n 9	17s24	6n					

ASTRODIENST EPHEMERIS for the year 1951

geocentric

MAY 1951

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 32 28	9♂49'17	10♂54	0°R27	18♂23	15♂10	2°Y 4	26°R12	6♂22	17°R35	17♂25	17♂52	16♂26	22♂54	2°R32	T 1	
W 2	14 36 24	10°47'32	23°53	29°Y57	19°33	15°53	2°17	26♂9	6°25	17♂33	17°25	17°R52	16°23	23°1	2♂30	W 2	
T 3	14 40 21	11°45'45	6°Y40	29°30	20°43	16°37	2°30	26°7	6°27	17°32	17°25	17°50	16°20	23°8	2°28	T 3	
F 4	14 44 17	12°43'57	19°15	29°8	21°52	17°20	2°42	26°4	6°29	17°30	17°25	17°46	16°16	23°14	2°27	F 4	
S 5	14 48 14	13°42'07	1♂40	28°49	23°1	18°4	2°55	26°2	6°32	17°29	17°25	17°40	16°13	23°21	2°25	S 5	
S 6	14 52 10	14°40'15	13°56	28°35	24°11	18°47	3°8	25°59	6°34	17°27	17°25	17°31	16°10	23°28	2°23	S 6	
M 7	14 56 7	15°38'22	26°4	28°26	25°20	19°31	3°20	25°57	6°37	17°26	17°26	17°20	16°7	23°34	2°21	M 7	
T 8	15 0 4	16°36'27	8♂11	28°D21	26°29	20°14	3°33	25°55	6°40	17°25	17°26	17°9	16°4	23°41	2°18	T 8	
W 9	15 4 0	17°34'31	20°0	28°21	27°38	20°57	3°45	25°53	6°42	17°23	17°26	16°58	16°0	23°48	2°16	W 9	
T 10	15 7 57	18°32'32	1♂52	28°26	28°47	21°41	3°58	25°51	6°45	17°22	17°26	16°48	15°57	23°55	2°14	T 10	
F 11	15 11 53	19°30'32	13°43	28°36	29°55	22°24	4°10	25°49	6°48	17°21	17°27	16°40	15°54	24°1	2°12	F 11	
S 12	15 15 50	20°28'30	25°36	28°49	1♂54	23°7	4°22	25°47	6°50	17°19	17°27	16°35	15°51	24°8	2°9	S 12	
S 13	15 19 46	21°26'27	7♂36	29°8	2°12	23°50	4°34	25°46	6°53	17°18	17°27	16°32	15°48	24°15	2°7	S 13	
M14	15 23 43	22°24'21	19°47	29°31	3°20	24°33	4°46	25°44	6°56	17°17	17°28	16°D31	15°45	24°21	2°4	M14	
T 15	15 27 39	23°22'14	2♂14	29°58	4°28	25°16	4°58	25°43	6°59	17°15	17°28	16°31	15°41	24°28	2°1	T 15	
W16	15 31 36	24°20'05	15°2	0♂29	5°36	25°59	5°10	25°41	7°1	17°14	17°28	16°R32	15°38	24°35	1°59	W16	
T 17	15 35 33	25°17'54	28°16	1°5	6°44	26°42	5°22	25°40	7°4	17°13	17°29	16°31	15°35	24°42	1°56	T 17	
F 18	15 39 29	26°15'41	11♂58	1°44	7°52	27°24	5°34	25°39	7°7	17°12	17°29	16°29	15°32	24°48	1°53	F 18	
S 19	15 43 26	27°13'27	26°9	2°27	8°59	28°7	5°45	25°38	7°10	17°11	17°30	16°24	15°29	24°55	1°50	S 19	
S 20	15 47 22	28°11'11	10♂47	3°13	10°6	28°50	5°57	25°37	7°13	17°9	17°30	16°17	15°26	25°2	1°47	S 20	
M21	15 51 19	29°8'54	25°45	4°3	11°14	29°32	6°8	25°36	7°16	17°8	17°31	16°8	15°22	25°9	1°44	M21	
T 22	15 55 15	0♂11 6'36	10♂56	4°57	12°21	0♂15	6°19	25°35	7°19	17°7	17°32	15°57	15°19	25°15	1°41	T 22	
W23	15 59 12	1°4'16	26°9	5°54	13°27	0°58	6°31	25°34	7°22	17°6	17°32	15°47	15°16	25°22	1°38	W23	
T 24	16 3 9	2°1'55	11♂12	6°54	14°34	1°40	6°42	25°34	7°25	17°5	17°33	15°39	15°13	25°29	1°35	T 24	
F 25	16 7 5	2°59'33	25°57	7°57	15°40	2°22	6°53	25°33	7°28	17°4	17°34	15°32	15°10	25°35	1°31	F 25	
S 26	16 11 2	3°57'11	10♂19	9°3	16°47	3°5	7°4	25°33	7°32	17°3	17°34	15°28	15°6	25°42	1°28	S 26	
S 27	16 14 58	4°54'47	24°16	10°13	17°53	3°47	7°15	25°33	7°35	17°2	17°35	15°27	15°3	25°49	1°25	S 27	
M28	16 18 55	5°52'22	7♂48	11°25	18°59	4°29	7°25	25°32	7°38	17°1	17°36	15°26	15°0	25°56	1°21	M28	
T 29	16 22 51	6°49'56	20°57	12°40	20°4	5°12	7°36	25°D32	7°41	17°0	17°36	15°26	14°57	26°2	1°18	T 29	
W30	16 26 48	7°47'29	3°Y46	13°57	21°10	5°54	7°47	25°32	7°44	16°59	17°37	15°25	14°54	26°9	1°14	W30	
T 31	16 30 44	8♂45'02	16°Y20	15♂18	22♂15	6♂36	7°Y57	25♂33	7♂48	16♂58	17♂38	15♂22	14♂51	26♂16	1♂11	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
T 1	14n46	8s 4	0s37	11n17	0s22	24n51	1n55	16n23	0s 0	0s11	1s 6	3n48	2n30	23n37	0n19	5s21	1n41	23n50	8n38	4s48	5s21	28n22	17s 4	6n21			
W 2	15 4	1 56	0n32	10 51	0 39	24 59	1 57	16 36	0n 0	0 6	1 6	3 49	2 29	23 37	0 19	5 20	1 41	23 50	8 38	4 48	5 23	28 22	17 4	6 22			
T 3	15 22	4n10	1 39	10 26	0 55	25 7	2 0	16 49	0 1	0 1	1 6	3 50	2 29	23 37	0 19	5 20	1 41	23 49	8 38	4 48	5 24	28 22	17 3	6 22			
F 4	15 40	10 0	2 40	10 4	1 11	25 14	2 2	17 2	0 2	0n 4	1 6	3 51	2 29	23 36	0 19	5 19	1 41	23 49	8 38	4 50	5 25	28 23	17 3	6 23			
S 5	15 57	15 22	3 32	9 43	1 26	25 20	2 4	17 15	0 2	0 9	1 6	3 51	2 29	23 36	0 19	5 18	1 41	23 49	8 38	4 53	5 26	28 23	17 2	6 23			
S 6	16 15	20 3	4 14	9 25	1 40	25 25	2 6	17 28	0 3	0 14	1 6	3 52	2 29	23 36	0 19	5 18	1 41	23 49	8 38	4 56	5 28	28 23	17 2	6 24			
M 7	16 32	23 51	4 43	9 9	1 54	25 30	2 8	17 40	0 3	0 19	1 7	3 53	2 29	23 36	0 19	5 17	1 41	23 49	8 37	5 0	5 29	28 23	17 1	6 25			
T 8	16 48	26 35	5 0	8 55	2 6	25 34	2 10	17 53	0 4	0 23	1 7	3 54	2 28	23 36	0 19	5 17	1 41	23 48	8 37	5 5	5 30	28 23	17 1	6 25			
W 9	17 5	28 6	5 3	8 45	2 18	25 37	2 12	18 5	0 5	0 28	1 7	3 54	2 28	23 36	0 19	5 16	1 41	23 48	8 37	5 9	5 31	28 24	17 0	6 26			
T 10	17 21	28 19	4 53	8 36	2 29	25 40	2 14	18 17	0 5	0 33	1 7	3 55	2 28	23 36	0 19	5 16	1 41	23 48	8 37	5 13	5 32	28 24	17 0	6 26			
F 11	17 37	27 14	4 31	8 30	2 39	25 42	2 15	18 28	0 6	0 38	1 7	3 55	2 28	23 36	0 19	5 15	1 41	23 48	8 37	5 16	5 34	28 24	16 59	6 27			
S 12	17 52	24 54	3 56	8 27	2 48	25 44	2 17	18 40	0 7	0 42	1 7	3 56	2 28	23 35	0 19	5 15	1 41	23 47	8 37	5 18	5 35	28 24	16 59	6 27			
S 13	18 8	21 28	3 12	8 26	2 55	25 44	2 18	18 51	0 7	0 47	1 7	3 56	2 27	23 35	0 19	5 14	1 41	23 47	8 36	5 19	5 36	28 24	16 58	6 28			
M14	18 23	17 3	2 17	8 27	3 2	25 44	2 20	19 2	0 8	0 52	1 8	3 57	2 27	23 35	0 19	5 14	1 41	23 47	8 36	5 19	5 37	28 25	16 58	6 28			
T 15	18 37	11 51	1 15	8 31	3 9	25 43	2 21	19 13	0 8	0 56	1 8	3 57	2 27	23 35	0 19	5 14	1 41	23 47	8 36	5 19	5 39	28 25	16 57	6 29			
W16	18 52	6 1	0 8	8 37	3 14	25 42	2 22	19 24	0 9	1 1	1 8	3 58	2 27	23 35	0 19	5 13	1 41	23 46	8 36	5 19	5 40	28 25	16 57	6 29			
T 17	19 6	0s15	1s 2	8 45	3 18	25 40	2 24	19 35	0 10	1 5	1 8	3 58	2 27	23 35	0 19	5 13	1 41	23 46	8 36	5 19	5 41	28 25	16 56	6 30			
F 18	19 19	6 44	2 11	8 56	3 21	25 37	2 25	19 45	0 10	1 10	1 8	3 58	2 27	23 34	0 19	5 12	1 41	23 46	8 35	5 20	5 42	28 25	16 56	6 30			
S 19	19 33	13 6	3 14	9 8	3 24	25 34	2 26	19 56	0 11	1 14	1 8	3 59	2 26	23 34	0 19	5 12	1 41	23 45	8 35	5 22	5 44	28 25	16 55	6 31			
S 20	19 46	18 57	4 6	9 22	3 26	25 30	2 27	20 6	0 12	1 19	1 9	3 59	2 26	23 34	0 19	5 11	1 41	23 45	8 35	5 25	5 45	28 25	16 55	6 31			
M21	19 58	23 47	4 43	9 38	3 27	25 25	2 27	20 16	0 12	1 23	1 9	3 59	2 26	23 34	0 19	5 11	1 41	23 45	8 35	5 29	5 46	28 26	16 55	6 32			
T 22	20 11	27 2	5 0	9 56	3 27	25 20	2 28	20 25	0 13	1 27	1 9	3 59	2 26	23 34	0 19	5 11	1 41	23 44	8 35	5 33	5 47	28 26	16 54	6 32			
W23	20 23	28 20	4 56	10 15	3 26	25 14	2 29	20 35	0 13	1 32	1 9	3 59	2 26	23 34	0 19	5 10	1 41	23 44	8 35	5 36	5 48	28 26	16 54	6 33			
T 24	20 35	27 30	4 32	10 36	3 25	25 7	2 29	20 44	0 14	1 36	1 9	3 59	2 25	23 33	0 19	5 10	1 41	23 44	8 35	5 40	5 50	28 26	16 53	6 33			
F 25	20 46	24 44	3 50	10 58	3 23	25 0	2 30	20 53	0 15	1 40	1 10	3 59	2 25	23 33	0 19	5 9	1 41	23 43	8 34	5 42	5 51	28 26	16 53	6 33			
S 26	20 57	20 27	2 54	11 21	3 20	24 52	2 30	21 2	0 15	1 44	1 10	3 59	2 25	23 33	0 19	5 9	1 40	23 43	8 34	5 44	5 52	28 26	16 53	6 34			
S 27	21 7	15 9	1 49	11 46	3 17	24 44	2 30	21 11	0 16	1 48	1 10	3 59	2 25	23 33	0 19	5 9	1 40	23 42	8 34	5 44	5 53	28 26	16 52	6 34			
M28	21 18	9 16	0 40	12 12	3 13	24 35	2 30	21 19	0 16	1 52	1 10	3 59	2 24	23 33	0 19	5 8	1 40	23 42	8 34	5 45	5 55	28 26	16 52	6 35			
T 29	21 28	3 9	0n29	12 39	3 8	24 25	2 30	21 27	0 17	1 56	1 10	3 59	2 24	23 33	0 19	5 8	1 40	23 42	8 34	5 45	5 56	28 26	16 52	6 35			
W30	21 37	2n57	1 35	13 7	3 3	24 15	2 30	21 35	0 18	2 0	1 10	3 59	2 24	23 32	0 19	5 8	1 40	23 41	8 34	5 45	5 57	28 26	16 51	6 35			
T 31	21n46	8n49	2n35	13n36	2s57	24n 4	2n29	21n43	0n18	2n 4	1s11	3n58	2n24	23n32	0n19	5s 8	1n40	23n41	8n33	5s46	5s58	28n26	16s51	6n36			

ASTRODIENST EPHEMERIS for the year 1951
geocentric

JUNE 1951

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	16 34 41	9♈42'34	28♌42	16♊41	23♋20	7♌18	8♍7	25♎33	7♏51	16°R57	17♐39	15°R17	14♑47	26♒22	1°R 7	F 1
S 2	16 38 38	10°40'04	10♋54	18° 7	24°25	8° 0	8°18	25°33	7°54	16♌57	17°40	15♋8	14°44	26°29	1♊4	S 2
S 3	16 42 34	11°37'34	22°59	19°35	25°30	8°42	8°28	25°34	7°58	16°56	17°41	14°57	14°41	26°36	1° 0	S 3
M 4	16 46 31	12°35'03	4♈58	21° 7	26°34	9°24	8°38	25°34	8° 1	16°55	17°42	14°44	14°38	26°43	0°56	M 4
T 5	16 50 27	13°32'32	16°53	22°40	27°39	10° 6	8°48	25°35	8° 4	16°54	17°43	14°30	14°35	26°49	0°53	T 5
W 6	16 54 24	14°29'59	28°45	24°17	28°43	10°48	8°57	25°36	8° 8	16°53	17°44	14°16	14°32	26°56	0°49	W 6
T 7	16 58 20	15°27'25	10♋36	25°56	29°46	11°30	9° 7	25°36	8°11	16°53	17°45	14° 4	14°28	27° 3	0°45	T 7
F 8	17 2 17	16°24'50	22°28	27°37	0♌50	12°12	9°17	25°37	8°14	16°52	17°46	13°53	14°25	27°10	0°41	F 8
S 9	17 6 13	17°22'15	4♌23	29°22	1°53	12°53	9°26	25°38	8°18	16°51	17°47	13°46	14°22	27°16	0°38	S 9
S 10	17 10 10	18°19'38	16°24	1♈8	2°56	13°35	9°35	25°40	8°21	16°51	17°48	13°41	14°19	27°23	0°34	S 10
M 11	17 14 7	19°17'00	28°35	2°57	3°59	14°17	9°45	25°41	8°25	16°50	17°49	13°39	14°16	27°30	0°30	M 11
T 12	17 18 3	20°14'21	11♈0	4°49	5° 1	14°58	9°54	25°42	8°28	16°50	17°50	13°D38	14°12	27°36	0°26	T 12
W 13	17 22 0	21°11'41	23°45	6°43	6° 3	15°40	10° 2	25°44	8°32	16°49	17°51	13°R38	14° 9	27°43	0°22	W 13
T 14	17 25 56	22° 9'00	6♌54	8°39	7° 5	16°21	10°11	25°45	8°35	16°49	17°52	13°38	14° 6	27°50	0°18	T 14
F 15	17 29 53	23° 6'18	20°30	10°38	8° 7	17° 2	10°20	25°47	8°39	16°48	17°53	13°36	14° 3	27°57	0°14	F 15
S 16	17 33 49	24° 3'36	4♈35	12°39	9° 8	17°44	10°28	25°49	8°42	16°48	17°55	13°31	14° 0	28° 3	0°10	S 16
S 17	17 37 46	25° 0'52	19° 9	14°42	10° 9	18°25	10°37	25°51	8°46	16°48	17°56	13°24	13°57	28°10	0° 6	S 17
M 18	17 41 42	25°58'08	4♊8	16°47	11° 9	19° 6	10°45	25°53	8°49	16°47	17°57	13°15	13°53	28°17	0° 2	M 18
T 19	17 45 39	26°55'23	19°22	18°53	12° 9	19°48	10°53	25°55	8°53	16°47	17°58	13° 5	13°50	28°23	29♊58	T 19
W 20	17 49 36	27°52'38	4♋43	21° 1	13° 9	20°29	11° 1	25°57	8°56	16°47	18° 0	12°55	13°47	28°30	29°54	W 20
T 21	17 53 32	28°49'52	19°57	23°10	14° 9	21°10	11° 9	25°59	9° 0	16°46	18° 1	12°46	13°44	28°37	29°50	T 21
F 22	17 57 29	29°47'06	4♌55	25°20	15° 8	21°51	11°17	26° 1	9° 4	16°46	18° 2	12°39	13°41	28°44	29°46	F 22
S 23	18 1 25	0♈44'19	19°29	27°31	16° 6	22°32	11°24	26° 4	9° 7	16°46	18° 3	12°35	13°38	28°50	29°42	S 23
S 24	18 5 22	1°41'32	3♈35	29°42	17° 5	23°13	11°32	26° 6	9°11	16°46	18° 5	12°33	13°34	28°57	29°38	S 24
M 25	18 9 18	2°38'45	17°14	19°54	18° 2	23°54	11°39	26° 9	9°14	16°46	18° 6	12°D33	13°31	29° 4	29°34	M 25
T 26	18 13 15	3°35'59	0♈25	4° 5	19° 0	24°35	11°46	26°12	9°18	16°45	18° 8	12°R34	13°28	29°10	29°30	T 26
W 27	18 17 11	4°33'12	13°14	6°16	19°57	25°16	11°53	26°14	9°22	16°45	18° 9	12°33	13°25	29°17	29°26	W 27
T 28	18 21 8	5°30'25	25°45	8°26	20°53	25°57	12° 0	26°17	9°25	16°45	18°10	12°31	13°22	29°24	29°22	T 28
F 29	18 25 5	6°27'38	8♋0	10°36	21°49	26°37	12° 6	26°20	9°29	16°D45	18°12	12°27	13°18	29°31	29°18	F 29
S 30	18 29 1	7♈24'51	20♋6	12°54	22♌45	27♈18	12°V13	26♈23	9°32	16♌45	18♌13	12♈21	13♈15	29♈37	29♊15	S 30

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	decl	decl	decl	lat	decl	decl	decl	decl	lat
F 1	21n55	14n14	3n27	14n 6	2s50	23n53	2n29	21n51	0n19	2n 8	1s11	3n58	2n24	23n32	0n19	5s 7	1n40	23n40	8n33	5s48	6s 0	28n26	16s51	6n36									
S 2	22 3	19 2	4 8	14 37	2 44	23 41	2 28	21 58	0 20	2 12	1 11	3 58	2 23	23 32	0 19	5 7	1 40	23 40	8 33	5 52	6 1	28 26	16 50	6 36									
S 3	22 11	23 0	4 38	15 8	2 36	23 28	2 28	22 6	0 20	2 16	1 11	3 57	2 23	23 32	0 19	5 7	1 40	23 40	8 33	5 56	6 2	28 26	16 50	6 37									
M 4	22 19	25 58	4 55	15 40	2 28	23 15	2 27	22 13	0 21	2 20	1 11	3 57	2 23	23 31	0 19	5 6	1 40	23 39	8 33	6 1	6 3	28 26	16 50	6 37									
T 5	22 26	27 46	4 59	16 12	2 20	23 1	2 26	22 19	0 21	2 23	1 12	3 56	2 23	23 31	0 19	5 6	1 40	23 39	8 33	6 6	6 4	28 26	16 49	6 37									
W 6	22 33	28 16	4 50	16 44	2 11	22 47	2 25	22 26	0 22	2 27	1 12	3 56	2 23	23 31	0 19	5 6	1 40	23 38	8 33	6 12	6 6	28 26	16 49	6 38									
T 7	22 39	27 29	4 28	17 16	2 2	22 33	2 24	22 32	0 22	2 31	1 12	3 55	2 22	23 31	0 19	5 6	1 40	23 38	8 32	6 16	6 7	28 26	16 49	6 38									
F 8	22 45	25 26	3 55	17 49	1 52	22 18	2 22	22 39	0 23	2 34	1 12	3 55	2 22	23 31	0 19	5 5	1 40	23 37	8 32	6 20	6 8	28 26	16 49	6 38									
S 9	22 51	22 16	3 11	18 22	1 42	22 2	2 21	22 45	0 24	2 38	1 13	3 54	2 22	23 30	0 19	5 5	1 40	23 37	8 32	6 23	6 9	28 26	16 48	6 38									
S 10	22 56	18 8	2 19	18 54	1 32	21 46	2 19	22 50	0 24	2 41	1 13	3 54	2 22	23 30	0 19	5 5	1 40	23 36	8 32	6 25	6 11	28 26	16 48	6 39									
M11	23 1	13 12	1 19	19 26	1 21	21 30	2 17	22 56	0 25	2 45	1 13	3 53	2 21	23 30	0 19	5 5	1 40	23 36	8 32	6 26	6 12	28 26	16 48	6 39									
T 12	23 5	7 39	0 14	19 57	1 10	21 13	2 16	23 1	0 25	2 48	1 13	3 52	2 21	23 30	0 19	5 5	1 40	23 36	8 32	6 26	6 13	28 26	16 48	6 39									
W13	23 9	1 40	0s53	20 28	0 59	20 55	2 14	23 6	0 26	2 51	1 13	3 51	2 21	23 29	0 19	5 5	1 40	23 35	8 32	6 26	6 14	28 26	16 47	6 39									
T 14	23 13	4s34	2 0	20 58	0 48	20 37	2 11	23 11	0 27	2 54	1 14	3 51	2 21	23 29	0 19	5 4	1 40	23 35	8 31	6 26	6 15	28 26	16 47	6 40									
F 15	23 16	10 49	3 2	21 26	0 37	20 19	2 9	23 16	0 27	2 58	1 14	3 50	2 21	23 29	0 19	5 4	1 40	23 34	8 31	6 27	6 17	28 26	16 47	6 40									
S 16	23 19	16 44	3 55	21 54	0 26	20 1	2 7	23 20	0 28	3 1	1 14	3 49	2 20	23 29	0 19	5 4	1 40	23 34	8 31	6 29	6 18	28 26	16 47	6 40									
S 17	23 21	21 55	4 35	22 20	0 15	19 42	2 4	23 25	0 28	3 4	1 14	3 48	2 20	23 29	0 19	5 4	1 40	23 33	8 31	6 32	6 19	28 25	16 47	6 40									
M18	23 23	25 51	4 57	22 44	0 4	19 22	2 1	23 29	0 29	3 7	1 15	3 47	2 20	23 28	0 19	5 4	1 39	23 33	8 31	6 35	6 20	28 25	16 47	6 40									
T 19	23 25	28 0	4 59	23 6	0n 7	19 3	1 58	23 33	0 29	3 10	1 15	3 46	2 20	23 28	0 19	5 4	1 39	23 32	8 31	6 39	6 22	28 25	16 46	6 40									
W20	23 26	28 1	4 40	23 27	0 18	18 43	1 55	23 36	0 30	3 13	1 15	3 45	2 20	23 28	0 19	5 4	1 39	23 32	8 31	6 43	6 23	28 25	16 46	6 41									
T 21	23 27	25 56	4 1	23 45	0 28	18 22	1 52	23 40	0 30	3 15	1 15	3 44	2 19	23 28	0 19	5 4	1 39	23 31	8 31	6 46	6 24	28 25	16 46	6 41									
F 22	23 27	22 2	3 5	24 0	0 38	18 2	1 48	23 43	0 31	3 18	1 16	3 43	2 19	23 27	0 19	5 4	1 39	23 31	8 31	6 49	6 25	28 25	16 46	6 41									
S 23	23 27	16 52	1 59	24 13	0 48	17 41	1 45	23 46	0 32	3 21	1 16	3 41	2 19	23 27	0 19	5 4	1 39	23 30	8 30	6 50	6 26	28 25	16 46	6 41									
S 24	23 26	10 56	0 47	24 24	0 57	17 20	1 41	23 49	0 32	3 24	1 16	3 40	2 19	23 27	0 19	5 4	1 39	23 29	8 30	6 51	6 28	28 24	16 46	6 41									
M25	23 25	4 40	0n25	24 31	1 5	16 58	1 37	23 51	0 33	3 26	1 16	3 39	2 19	23 27	0 19	5 4	1 39	23 29	8 30	6 51	6 29	28 24	16 46	6 41									
T 26	23 24	1n36	1 33	24 36	1 13	16 37	1 33	23 53	0 33	3 29	1 17	3 38	2 18	23 26	0 19	5 4	1 39	23 28	8 30	6 51	6 30	28 24	16 46	6 41									
W27	23 22	7 37	2 35	24 38	1 20	16 15	1 29	23 56	0 34	3 31	1 17	3 36	2 18	23 26	0 19	5 4	1 39	23 28	8 30	6 51	6 31	28 24	16 46	6 41									
T 28	23 20	13 11	3 28	24 37	1 27	15 52	1 24	23 57	0 34	3 34	1 17	3 35	2 18	23 26	0 19	5 4	1 39	23 27	8 30	6 52	6 33	28 24	16 46	6 41									
F 29	23 17	18 8	4 10	24 34	1 33	15 30	1 20	23 59	0 35	3 36	1 17	3 34	2 18	23 26	0 19	5 4	1 39	23 27	8 30	6 53	6 34	28 23	16 46	6 41									
S 30	23n14	22n16	4n41	24n27	1n38	15n 7	1n15	24n 1	0n35	3n38	1s18	3n32	2n18	23n25	0n19	5s 4	1n39	23n26	8n30	6s56	6s35	28n23	16s45	6n41									

ASTRODIENST EPHEMERIS for the year 1951

geocentric

JULY 1951

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 32 58	8♂22'04	2♂ 4	14♂51	23♂40	27♂59	12♂19	26♂27	9♂36	16♂45	18♂15	12♂R12	13♂12	29♂44	29♂R11	S 1
M 2	18 36 54	9°19'18	13°58	16°57	24°34	28°39	12°26	26°30	9°40	16°45	18°16	12♂ 1	13° 9	29°51	29♂ 7	M 2
T 3	18 40 51	10°16'31	25°49	19° 1	25°28	29°20	12°32	26°33	9°43	16°46	18°18	11°49	13° 6	29°58	29° 3	T 3
W 4	18 44 47	11°13'45	7♂41	21° 3	26°22	0♂ 1	12°37	26°37	9°47	16°46	18°19	11°38	13° 3	0♂ 4	28°59	W 4
T 5	18 48 44	12°10'58	19°34	23° 4	27°15	0°41	12°43	26°40	9°51	16°46	18°21	11°28	12°59	0°11	28°55	T 5
F 6	18 52 41	13° 8'11	1♂29	25° 3	28° 7	1°21	12°49	26°44	9°54	16°46	18°23	11°19	12°56	0°18	28°51	F 6
S 7	18 56 37	14° 5'25	13°30	27° 0	28°59	2° 2	12°54	26°47	9°58	16°46	18°24	11°13	12°53	0°24	28°48	S 7
S 8	19 0 34	15° 2'38	25°37	28°55	29°50	2°42	12°59	26°51	10° 1	16°47	18°26	11°10	12°50	0°31	28°44	S 8
M 9	19 4 30	15°59'51	7♂54	0♂49	0♂40	3°23	13° 4	26°55	10° 5	16°47	18°27	11°D 9	12°47	0°38	28°40	M 9
T 10	19 8 27	16°57'04	20°24	2°40	1°30	4° 3	13° 9	26°59	10° 9	16°47	18°29	11° 9	12°44	0°45	28°36	T 10
W11	19 12 23	17°54'16	3♂11	4°29	2°19	4°43	13°14	27° 3	10°12	16°48	18°31	11°10	12°40	0°51	28°33	W11
T 12	19 16 20	18°51'29	16°18	6°17	3° 7	5°23	13°18	27° 7	10°16	16°48	18°32	11°R11	12°37	0°58	28°29	T 12
F 13	19 20 16	19°48'42	29°49	8° 2	3°54	6° 4	13°23	27°11	10°19	16°48	18°34	11°10	12°34	1° 5	28°26	F 13
S 14	19 24 13	20°45'54	13♂46	9°46	4°41	6°44	13°27	27°16	10°23	16°49	18°36	11° 8	12°31	1°11	28°22	S 14
S 15	19 28 10	21°43'07	28° 9	11°27	5°26	7°24	13°31	27°20	10°27	16°49	18°37	11° 4	12°28	1°18	28°19	S 15
M16	19 32 6	22°40'20	12♂54	13° 7	6°11	8° 4	13°34	27°24	10°30	16°50	18°39	10°58	12°24	1°25	28°15	M16
T 17	19 36 3	23°37'33	27°57	14°44	6°55	8°44	13°38	27°29	10°34	16°51	18°41	10°51	12°21	1°32	28°12	T 17
W18	19 39 59	24°34'47	13♂ 9	16°20	7°38	9°24	13°41	27°33	10°37	16°51	18°42	10°45	12°18	1°38	28° 9	W18
T 19	19 43 56	25°32'00	28°19	17°54	8°20	10° 4	13°45	27°38	10°41	16°52	18°44	10°39	12°15	1°45	28° 5	T 19
F 20	19 47 52	26°29'14	13♂17	19°26	9° 1	10°43	13°48	27°43	10°44	16°52	18°46	10°34	12°12	1°52	28° 2	F 20
S 21	19 51 49	27°26'29	27°55	20°55	9°41	11°23	13°51	27°48	10°48	16°53	18°48	10°32	12° 9	1°58	27°59	S 21
S 22	19 55 45	28°23'44	12♂ 8	22°23	10°20	12° 3	13°53	27°52	10°51	16°54	18°49	10°D31	12° 5	2° 5	27°56	S 22
M23	19 59 42	29°21'00	25°53	23°49	10°58	12°43	13°56	27°57	10°55	16°55	18°51	10°32	12° 2	2°12	27°53	M23
T 24	20 3 39	0♂18'16	9♂11	25°13	11°34	13°22	13°58	28° 2	10°58	16°55	18°53	10°33	11°59	2°19	27°50	T 24
W25	20 7 35	1°15'34	22° 4	26°34	12°10	14° 2	14° 0	28° 7	11° 2	16°56	18°55	10°35	11°56	2°25	27°47	W25
T 26	20 11 32	2°12'53	4♂37	27°54	12°44	14°42	14° 2	28°13	11° 5	16°57	18°56	10°R35	11°53	2°32	27°44	T 26
F 27	20 15 28	3°10'12	16°52	29°11	13°17	15°21	14° 4	28°18	11° 9	16°58	18°58	10°34	11°50	2°39	27°41	F 27
S 28	20 19 25	4° 7'33	28°56	0♂27	13°48	16° 1	14° 5	28°23	11°12	16°59	19° 0	10°31	11°46	2°45	27°38	S 28
S 29	20 23 21	5° 4'54	10♂52	1°40	14°18	16°40	14° 7	28°28	11°15	17° 0	19° 2	10°27	11°43	2°52	27°35	S 29
M30	20 27 18	6° 2'17	22°44	2°50	14°47	17°20	14° 8	28°34	11°19	17° 1	19° 4	10°22	11°40	2°59	27°33	M30
T 31	20 31 14	6♂59'40	4♂36	3♂59	15♂14	17♂59	14♂ 9	28♂39	11♂22	17♂ 2	19♂ 6	10♂16	11♂37	3♂ 6	27♂30	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
S 1	23n11	25n27	4n58	24n18	1n42	14n44	1n10	24n 2	0n36	3n41	1s18	3n31	2n17	23n25	0n19	5s 4	1n39	23n26	8n30	6s59	6s36	28n23	16s45	6n41			
M 2	23 7	27 29	5 3	24 7	1 45	14 21	1 5	24 3	0 36	3 43	1 18	3 29	2 17	23 25	0 19	5 4	1 39	23 25	8 30	7 3	6 37	28 23	16 45	6 41			
T 3	23 3	28 17	4 54	23 53	1 48	13 58	1 0	24 4	0 37	3 45	1 18	3 28	2 17	23 25	0 19	5 4	1 39	23 25	8 30	7 8	6 39	28 22	16 45	6 41			
W 4	22 58	27 46	4 33	23 37	1 50	13 35	0 54	24 4	0 38	3 47	1 19	3 26	2 17	23 24	0 19	5 4	1 39	23 24	8 29	7 12	6 40	28 22	16 45	6 41			
T 5	22 53	25 58	3 59	23 19	1 52	13 12	0 49	24 5	0 38	3 49	1 19	3 25	2 17	23 24	0 19	5 4	1 39	23 23	8 29	7 16	6 41	28 22	16 45	6 41			
F 6	22 48	23 1	3 15	22 58	1 52	12 48	0 43	24 5	0 39	3 51	1 19	3 23	2 16	23 24	0 19	5 4	1 39	23 23	8 29	7 19	6 42	28 22	16 45	6 41			
S 7	22 42	19 3	2 22	22 36	1 52	12 24	0 37	24 5	0 39	3 53	1 19	3 22	2 16	23 24	0 19	5 5	1 39	23 22	8 29	7 22	6 44	28 21	16 46	6 41			
S 8	22 36	14 16	1 22	22 12	1 51	12 1	0 31	24 5	0 40	3 54	1 20	3 20	2 16	23 23	0 19	5 5	1 38	23 22	8 29	7 23	6 45	28 21	16 46	6 41			
M 9	22 29	8 53	0 17	21 46	1 50	11 37	0 24	24 4	0 40	3 56	1 20	3 18	2 16	23 23	0 19	5 5	1 38	23 21	8 29	7 23	6 46	28 21	16 46	6 41			
T 10	22 22	3 3	0s50	21 19	1 48	11 13	0 18	24 4	0 41	3 58	1 20	3 16	2 16	23 23	0 19	5 5	1 38	23 21	8 29	7 23	6 47	28 20	16 46	6 41			
W11	22 15	3s 2	1 56	20 51	1 45	10 49	0 11	24 3	0 41	3 59	1 21	3 15	2 15	23 23	0 19	5 5	1 38	23 20	8 29	7 23	6 48	28 20	16 46	6 41			
T 12	22 7	9 9	2 57	20 22	1 42	10 25	0 4	24 2	0 42	4 1	1 21	3 13	2 15	23 22	0 19	5 5	1 38	23 19	8 29	7 23	6 50	28 20	16 46	6 41			
F 13	21 59	15 1	3 51	19 51	1 38	10 2	0s 3	24 1	0 42	4 2	1 21	3 11	2 15	23 22	0 19	5 6	1 38	23 19	8 29	7 23	6 51	28 19	16 46	6 40			
S 14	21 51	20 19	4 33	19 19	1 34	9 38	0 11	23 59	0 43	4 3	1 21	3 9	2 15	23 22	0 19	5 6	1 38	23 18	8 29	7 24	6 52	28 19	16 46	6 40			
S 15	21 42	24 37	5 0	18 47	1 29	9 14	0 18	23 58	0 43	4 5	1 22	3 7	2 15	23 21	0 19	5 6	1 38	23 18	8 29	7 25	6 53	28 19	16 46	6 40			
M16	21 32	27 26	5 7	18 13	1 24	8 50	0 26	23 56	0 44	4 6	1 22	3 5	2 15	23 21	0 19	5 6	1 38	23 17	8 29	7 27	6 54	28 18	16 46	6 40			
T 17	21 23	28 20	4 54	17 39	1 18	8 27	0 34	23 54	0 44	4 7	1 22	3 3	2 14	23 21	0 19	5 7	1 38	23 17	8 29	7 30	6 56	28 18	16 46	6 40			
W18	21 13	27 7	4 20	17 5	1 11	8 3	0 43	23 52	0 45	4 8	1 23	3 1	2 14	23 21	0 19	5 7	1 38	23 16	8 29	7 32	6 57	28 18	16 47	6 40			
T 19	21 3	23 54	3 28	16 30	1 5	7 40	0 51	23 49	0 45	4 9	1 23	2 59	2 14	23 20	0 19	5 7	1 38	23 15	8 29	7 35	6 58	28 17	16 47	6 39			
F 20	20 52	19 6	2 22	15 55	0 57	7 16	1 0	23 46	0 46	4 10	1 23	2 57	2 14	23 20	0 19	5 8	1 38	23 15	8 29	7 36	6 59	28 17	16 47	6 39			
S 21	20 41	13 16	1 8	15 19	0 50	6 53	1 8	23 44	0 46	4 11	1 23	2 55	2 14	23 20	0 19	5 8	1 38	23 14	8 29	7 37	7 1	28 16	16 47	6 39			
S 22	20 29	6 53	0n 9	14 43	0 42	6 30	1 17	23 41	0 47	4 12	1 24	2 53	2 14	23 20	0 19	5 8	1 38	23 14	8 29	7 38	7 2	28 16	16 47	6 39			
M23	20 18	0 23	1 22	14 7	0 33	6 7	1 27	23 37	0 47	4 12	1 24	2 51	2 13	23 19	0 19	5 8	1 38	23 13	8 29	7 37	7 3	28 16	16 47	6 38			
T 24	20 6	5n55	2 29	13 31	0 25	5 45	1 36	23 34	0 48	4 13	1 24	2 49	2 13	23 19	0 19	5 9	1 38	23 12	8 29	7 37	7 4	28 15	16 48	6 38			
W25	19 53	11 47	3 26	12 54	0 16	5 22	1 46	23 30	0 48	4 14	1 25	2 47	2 13	23 19	0 19	5 9	1 38	23 12	8 29	7 36	7 5	28 15	16 48	6 38			
T 26	19 40	17 1	4 12	12 18	0 6	5 0	1 56	23 27	0 49	4 14	1 25	2 45	2 13	23 19	0 19	5 10	1 38	23 11	8 29	7 36	7 7	28 14	16 48	6 38			
F 27	19 27	21 26	4 45	11 42	0s 3	4 38	2 6	23 23	0 49	4 14	1 25	2 43	2 13	23 18	0 19	5 10	1 38	23 11	8 29	7 37	7 8	28 14	16 48	6 37			
S 28	19 14	24 53	5 4	11 7	0 13	4 17	2 16	23 19	0 50	4 15	1 25	2 40	2 13	23 18	0 20	5 10	1 38	23 10	8 29	7 37	7 9	28 13	16 49	6 37			
S 29	19 0	27 12	5 11	10 31	0 34	3 56	2 27	23 14	0 50	4 15	1 26	2 38	2 13	23 18	0 20	5 11	1 37	23 10	8 29	7 39	7 10	28 13	16 49	6 37			
M30	18 46	28 18	5 4	9 56	0 24	3 35	2 37	23 10	0 51	4 15	1 26	2 36	2 12	23 17	0 20	5 11	1 37	23 9	8 29	7 41	7 11	28 12	16 49	6 37			
T 31	18n32	28n 5	4n43	9n22	0s45	3n14	2s48	23n 5	0n51	4n15	1s26	2n33	2n12	23n17	0n20	5s12	1n37	23n 8	8n29	7s43	7s13	28n12	16s49	6n36			

ASTRODIENST EPHEMERIS for the year 1951

geocentric

AUGUST 1951

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 35 11	7♂57°05	16♂29	5♂4	15♂39	18♂39	14♂10	28♂45	11♂25	17♂3	19♂7	10♂R10	11♂34	3♂12	27♂R28	W 1
T 2	20 39 8	8°54'30	28°26	6° 8	16° 3	19°18	14°10	28°50	11°29	17° 4	19° 9	10♂5	11°30	3°19	27♂25	T 2
F 3	20 43 4	9°51'56	10♂29	7° 8	16°25	19°57	14°11	28°56	11°32	17° 5	19°11	10° 1	11°27	3°26	27°23	F 3
S 4	20 47 1	10°49'23	22°40	8° 6	16°45	20°37	14°R11	29° 2	11°35	17° 6	19°13	9°58	11°24	3°32	27°20	S 4
S 5	20 50 57	11°46'51	5♂0	9° 1	17° 4	21°16	14°11	29° 8	11°39	17° 7	19°15	9°D57	11°21	3°39	27°18	S 5
M 6	20 54 54	12°44'20	17°31	9°52	17°21	21°55	14°10	29°13	11°42	17° 8	19°17	9°57	11°18	3°46	27°16	M 6
T 7	20 58 50	13°41'50	0♂14	10°41	17°35	22°34	14°10	29°19	11°45	17° 9	19°18	9°58	11°15	3°53	27°14	T 7
W 8	21 2 47	14°39'20	13°11	11°26	17°48	23°13	14° 9	29°25	11°48	17°11	19°20	10° 0	11°11	3°59	27°12	W 8
T 9	21 6 43	15°36'51	26°25	12° 7	17°59	23°52	14° 9	29°31	11°51	17°12	19°22	10° 1	11° 8	4° 6	27°10	T 9
F 10	21 10 40	16°34'23	9♂58	12°45	18° 7	24°31	14° 8	29°37	11°55	17°13	19°24	10° 2	11° 5	4°13	27° 8	F 10
S 11	21 14 37	17°31'56	23°49	13°19	18°14	25°10	14° 6	29°43	11°58	17°15	19°26	10°R 2	11° 2	4°19	27° 6	S 11
S 12	21 18 33	18°29'30	8♂1	13°49	18°18	25°49	14° 5	29°49	12° 1	17°16	19°28	10° 1	10°59	4°26	27° 5	S 12
M13	21 22 30	19°27'05	22°29	14°14	18°R20	26°28	14° 3	29°56	12° 4	17°17	19°30	9°59	10°56	4°33	27° 3	M13
T 14	21 26 26	20°24'41	7♂11	14°35	18°20	27° 7	14° 1	0♂2	12° 7	17°19	19°31	9°57	10°52	4°40	27° 1	T 14
W15	21 30 23	21°22'17	22° 1	14°51	18°17	27°46	13°59	0° 8	12°10	17°20	19°33	9°54	10°49	4°46	27° 0	W15
T 16	21 34 19	22°19'55	6♂52	15° 2	18°12	28°25	13°57	0°15	12°13	17°21	19°35	9°52	10°46	4°53	26°59	T 16
F 17	21 38 16	23°17'34	21°36	15° 8	18° 4	29° 4	13°55	0°21	12°16	17°23	19°37	9°51	10°43	5° 0	26°57	F 17
S 18	21 42 12	24°15'14	6♂5	15°R 9	17°54	29°42	13°52	0°27	12°19	17°24	19°39	9°D50	10°40	5° 6	26°56	S 18
S 19	21 46 9	25°12'55	20°14	15° 4	17°42	0♂21	13°49	0°34	12°22	17°26	19°41	9°50	10°36	5°13	26°55	S 19
M20	21 50 6	26°10'38	3♂59	14°53	17°27	1° 0	13°46	0°40	12°24	17°27	19°43	9°51	10°33	5°20	26°54	M20
T 21	21 54 2	27° 8'23	17°20	14°36	17°10	1°38	13°43	0°47	12°27	17°29	19°44	9°52	10°30	5°27	26°53	T 21
W22	21 57 59	28° 6'09	0♂18	14°14	16°51	2°17	13°40	0°54	12°30	17°31	19°46	9°53	10°27	5°33	26°52	W22
T 23	22 1 55	29° 3'56	12°54	13°46	16°29	2°56	13°36	1° 0	12°33	17°32	19°48	9°54	10°24	5°40	26°51	T 23
F 24	22 5 52	0♂1'46	25°13	13°13	16° 6	3°34	13°33	1° 7	12°36	17°34	19°50	9°R55	10°21	5°47	26°50	F 24
S 25	22 9 48	0°59'37	7♂18	12°34	15°40	4°13	13°29	1°14	12°38	17°35	19°52	9°55	10°17	5°53	26°50	S 25
S 26	22 13 45	1°57'30	19°15	11°51	15°12	4°51	13°25	1°20	12°41	17°37	19°54	9°54	10°14	6° 0	26°49	S 26
M27	22 17 41	2°55'25	1♂7	11° 3	14°43	5°29	13°20	1°27	12°44	17°39	19°56	9°53	10°11	6° 7	26°49	M27
T 28	22 21 38	3°53'22	12°59	10°12	14°12	6° 8	13°16	1°34	12°46	17°41	19°57	9°53	10° 8	6°13	26°48	T 28
W29	22 25 35	4°51'20	24°55	9°18	13°40	6°46	13°11	1°41	12°49	17°42	19°59	9°52	10° 5	6°20	26°48	W29
T 30	22 29 31	5°49'20	6♂58	8°22	13° 6	7°24	13° 7	1°48	12°51	17°44	20° 1	9°51	10° 2	6°27	26°48	T 30
F 31	22 33 28	6♂47'22	19♂10	7♂26	12♂31	8♂3	13°Y 2	1♂55	12♂54	17♂46	20♂3	9♂51	9♂58	6♂34	26♂48	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n17	26n35	4n11	8n48	0s56	2n54	2s59	23n 0	0n52	4n15	1s27	2n31	2n12	23n17	0n20	5s12
T 2	18 2	23 52	3 27	8 14	1 7	2 35	3 11	22 55	0 52	4 15	1 27	2 29	2 12	23 17	0 20	5 12
F 3	17 47	20 5	2 34	7 41	1 18	2 16	3 22	22 50	0 53	4 15	1 27	2 26	2 12	23 16	0 20	5 13
S 4	17 31	15 26	1 33	7 9	1 29	1 57	3 34	22 44	0 53	4 15	1 27	2 24	2 12	23 16	0 20	5 13
S 5	17 16	10 6	0 27	6 38	1 41	1 39	3 45	22 39	0 53	4 15	1 28	2 22	2 12	23 16	0 20	5 14
M 6	17 0	4 18	0s41	6 8	1 52	1 21	3 57	22 33	0 54	4 14	1 28	2 19	2 11	23 16	0 20	5 14
T 7	16 43	1s46	1 49	5 39	2 4	1 5	4 9	22 27	0 54	4 14	1 28	2 17	2 11	23 15	0 20	5 15
W 8	16 27	7 51	2 53	5 11	2 16	0 48	4 22	22 21	0 55	4 13	1 29	2 14	2 11	23 15	0 20	5 15
T 9	16 10	13 44	3 48	4 45	2 27	0 33	4 34	22 15	0 55	4 13	1 29	2 12	2 11	23 15	0 20	5 16
F 10	15 52	19 7	4 33	4 20	2 39	0 18	4 46	22 8	0 56	4 12	1 29	2 9	2 11	23 14	0 20	5 16
S 11	15 35	23 37	5 2	3 56	2 50	0 4	4 59	22 2	0 56	4 11	1 29	2 7	2 11	23 14	0 20	5 17
S 12	15 17	26 49	5 14	3 34	3 2	0s 9	5 11	21 55	0 57	4 11	1 30	2 4	2 11	23 14	0 20	5 17
M13	15 0	28 21	5 7	3 14	3 13	0 21	5 24	21 48	0 57	4 10	1 30	2 2	2 11	23 14	0 20	5 18
T 14	14 41	27 55	4 40	2 56	3 24	0 33	5 36	21 41	0 58	4 9	1 30	1 59	2 11	23 13	0 20	5 19
W15	14 23	25 30	3 54	2 40	3 34	0 43	5 49	21 34	0 58	4 8	1 31	1 56	2 10	23 13	0 20	5 19
T 16	14 4	21 20	2 52	2 27	3 44	0 52	6 1	21 26	0 58	4 7	1 31	1 54	2 10	23 13	0 20	5 20
F 17	13 46	15 52	1 39	2 16	3 54	1 1	6 13	21 19	0 59	4 6	1 31	1 51	2 10	23 13	0 20	5 20
S 18	13 27	9 36	0 21	2 7	4 3	1 8	6 26	21 11	0 59	4 4	1 31	1 49	2 10	23 12	0 20	5 21
S 19	13 7	3 0	0n57	2 2	4 11	1 14	6 37	21 3	1 0	4 3	1 32	1 46	2 10	23 12	0 20	5 22
M20	12 48	3n34	2 10	1 59	4 18	1 19	6 49	20 55	1 0	4 2	1 32	1 43	2 10	23 12	0 20	5 22
T 21	12 28	9 47	3 13	2 0	4 25	1 23	7 0	20 47	1 1	4 0	1 32	1 41	2 10	23 12	0 20	5 23
W22	12 8	15 23	4 4	2 3	4 30	1 26	7 11	20 39	1 1	3 59	1 32	1 38	2 10	23 11	0 20	5 23
T 23	11 48	20 12	4 42	2 10	4 34	1 27	7 22	20 31	1 2	3 57	1 33	1 35	2 10	23 11	0 20	5 24
F 24	11 28	24 1	5 6	2 21	4 36	1 28	7 32	20 22	1 2	3 55	1 33	1 32	2 10	23 11	0 20	5 25
S 25	11 8	26 44	5 16	2 34	4 37	1 27	7 42	20 13	1 2	3 54	1 33	1 30	2 10	23 11	0 20	5 25
S 26	10 47	28 12	5 12	2 51	4 37	1 25	7 51	20 5	1 3	3 52	1 33	1 27	2 10	23 11	0 20	5 26
M27	10 26	28 22	4 55	3 12	4 34	1 21	7 59	19 56	1 3	3 50	1 34	1 24	2 9	23 10	0 20	5 27
T 28	10 5	27 13	4 25	3 35	4 30	1 16	8 7	19 46	1 4	3 48	1 34	1 21	2 9	23 10	0 20	5 27
W29	9 44	24 50	3 44	4 1	4 24	1 11	8 14	19 37	1 4	3 46	1 34	1 19	2 9	23 10	0 20	5 28
T 30	9 23	21 19	2 52	4 29	4 16	1 4	8 20	19 28	1 5	3 44	1 34	1 16	2 9	23 10	0 20	5 29
F 31	9n 1	16n51	1n52	4n59	4s 5	0s55	8s25	19n18	1n 5	3n42	1s34	1n13	2n 9	23n 9	0n20	5s29

Julian Day Number = 2433859.5, Delta T = 29.55 sec
 Ecliptic obliquity = 23°26'53, Nutation = 0°00'07, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°03'50, Lahiri = 23°10'51

ASTRODIENST EPHEMERIS for the year 1951
geocentric

SEPTEMBER 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 37 24	7 ^h 45'25"	1 ^h 34	6°R30	11°R55	8 ^h 41	12°R56	2 ^h 2	12 ^h 56	17 ^h 48	20 ^h 5	9°R51	9 ^h 55	6 ^h 40	26°D48	S 1
S 2	22 41 21	8°43'30"	14°10	5 ^h 37	11 ^h 19	9°19	12 ^h 51	2°9	12°59	17°49	20°6	9°D51	9°52	6°47	26 ^h 48	S 2
M 3	22 45 17	9°41'37"	27°1	4°46	10°42	9°57	12°46	2°16	13°1	17°51	20°8	9°R51	9°49	6°54	26°48	M 3
T 4	22 49 14	10°39'45"	10 ^h 5	3°59	10°5	10°36	12°40	2°23	13°3	17°53	20°10	9 ^h 51	9°46	7°0	26°48	T 4
W 5	22 53 10	11°37'55"	23°22	3°17	9°28	11°14	12°34	2°30	13°5	17°55	20°12	9°51	9°42	7°7	26°49	W 5
T 6	22 57 7	12°36'06"	6 ^h 54	2°42	8°51	11°52	12°28	2°37	13°8	17°57	20°13	9°50	9°39	7°14	26°49	T 6
F 7	23 1 4	13°34'19"	20°38	2°14	8°14	12°30	12°22	2°44	13°10	17°59	20°15	9°50	9°36	7°21	26°49	F 7
S 8	23 5 0	14°32'34"	4 ^h 33	1°54	7°39	13°8	12°16	2°51	13°12	18°1	20°17	9°50	9°33	7°27	26°50	S 8
S 9	23 8 57	15°30'50"	18°40	1°42	7°4	13°46	12°10	2°58	13°14	18°3	20°19	9°D50	9°30	7°34	26°51	S 9
M10	23 12 53	16°29'07"	2 ^h 55	1°D39	6°31	14°24	12°3	3°6	13°16	18°5	20°20	9°50	9°27	7°41	26°51	M10
T 11	23 16 50	17°27'26"	17°17	1°45	5°59	15°1	11°57	3°13	13°18	18°7	20°22	9°51	9°23	7°47	26°52	T 11
W12	23 20 46	18°25'47"	1 ^h 41	2°0	5°28	15°39	11°50	3°20	13°20	18°9	20°24	9°51	9°20	7°54	26°53	W12
T 13	23 24 43	19°24'09"	16°5	2°24	5°0	16°17	11°43	3°27	13°22	18°11	20°25	9°52	9°17	8°1	26°54	T 13
F 14	23 28 39	20°22'32"	0 ^h 23	2°57	4°33	16°55	11°36	3°35	13°24	18°13	20°27	9°52	9°14	8°8	26°55	F 14
S 15	23 32 36	21°20'58"	14°31	3°38	4°8	17°33	11°29	3°42	13°26	18°15	20°29	9°R53	9°11	8°14	26°57	S 15
S 16	23 36 33	22°19'25"	28°24	4°28	3°45	18°10	11°22	3°49	13°28	18°17	20°30	9°52	9°7	8°21	26°58	S 16
M17	23 40 29	23°17'54"	12 ^h 0	5°26	3°25	18°48	11°15	3°57	13°30	18°19	20°32	9°51	9°4	8°28	26°59	M17
T 18	23 44 26	24°16'25"	25°17	6°30	3°6	19°25	11°8	4°4	13°31	18°21	20°34	9°49	9°1	8°34	27°1	T 18
W19	23 48 22	25°14'58"	8 ^h 13	7°42	2°50	20°3	11°0	4°11	13°33	18°23	20°35	9°47	8°58	8°41	27°2	W19
T 20	23 52 19	26°13'34"	20°50	9°0	2°37	20°41	10°53	4°19	13°35	18°25	20°37	9°45	8°55	8°48	27°4	T 20
F 21	23 56 15	27°12'11"	3 ^h 10	10°23	2°26	21°18	10°45	4°26	13°36	18°27	20°38	9°43	8°52	8°54	27°5	F 21
S 22	0 0 12	28°10'51"	15°17	11°50	2°17	21°56	10°38	4°33	13°38	18°29	20°40	9°41	8°48	9°1	27°7	S 22
S 23	0 4 8	29°9'33"	27°14	13°23	2°11	22°33	10°30	4°41	13°39	18°31	20°42	9°D41	8°45	9°8	27°9	S 23
M24	0 8 5	0 ^h 8'17"	9 ^h 7	14°58	2°8	23°10	10°22	4°48	13°41	18°33	20°43	9°41	8°42	9°15	27°11	M24
T 25	0 12 2	1°7'04"	20°59	16°37	2°D6	23°48	10°14	4°56	13°42	18°36	20°45	9°42	8°39	9°21	27°13	T 25
W26	0 15 58	2°5'53"	2 ^h 56	18°18	2°7	24°25	10°6	5°3	13°43	18°38	20°46	9°44	8°36	9°28	27°15	W26
T 27	0 19 55	3°4'44"	15°2	20°1	2°11	25°2	9°58	5°10	13°45	18°40	20°48	9°45	8°33	9°35	27°18	T 27
F 28	0 23 51	4°3'37"	27°21	21°46	2°16	25°40	9°50	5°18	13°46	18°42	20°49	9°47	8°29	9°41	27°20	F 28
S 29	0 27 48	5°2'32"	9 ^h 56	23°32	2°24	26°17	9°42	5°25	13°47	18°44	20°50	9°R47	8°26	9°48	27°22	S 29
S 30	0 31 44	6 ^h 1'29"	22 ^h 49	25 ^h 20	2 ^h 35	26 ^h 54	9 ^h 34	5 ^h 33	13 ^h 48	18 ^h 46	20 ^h 52	9 ^h 47	8 ^h 23	9 ^h 55	27 ^h 25	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	8n40	11n38	0n46	5n30	3s54	0s46	8s30	19n 9	1n 5	3n40	1s35	1n10	2n 9	23n 9	0n20	5s30	1n36	22n52	8n31	7s53	7s51	27n52	17s 1	6n23
S 2	8 18	5 52	0s24	6 3	3 40	0 36	8 34	18 59	1 6	3 37	1 35	1 7	2 9	23 9	0 20	5 31	1 36	22 51	8 32	7 53	7 52	27 52	17 2	6 23
M 3	7 56	0s15	1 34	6 35	3 25	0 25	8 36	18 49	1 6	3 35	1 35	1 4	2 9	23 9	0 20	5 32	1 36	22 51	8 32	7 53	7 54	27 51	17 2	6 22
T 4	7 34	6 27	2 40	7 7	3 9	0 13	8 38	18 39	1 7	3 33	1 35	1 2	2 9	23 9	0 20	5 32	1 36	22 50	8 32	7 53	7 55	27 50	17 3	6 22
W 5	7 12	12 28	3 39	7 39	2 51	0 0	8 39	18 29	1 7	3 30	1 35	0 59	2 9	23 8	0 20	5 33	1 36	22 50	8 32	7 53	7 56	27 49	17 3	6 21
T 6	6 50	18 0	4 26	8 8	2 33	0n13	8 39	18 19	1 7	3 28	1 36	0 56	2 9	23 8	0 20	5 34	1 36	22 50	8 32	7 53	7 57	27 48	17 4	6 21
F 7	6 28	22 43	4 59	8 36	2 14	0 28	8 38	18 9	1 8	3 25	1 36	0 53	2 9	23 8	0 20	5 35	1 36	22 49	8 32	7 53	7 58	27 48	17 4	6 21
S 8	6 5	26 13	5 15	9 1	1 55	0 42	8 36	17 58	1 8	3 23	1 36	0 50	2 9	23 8	0 20	5 35	1 36	22 49	8 32	7 53	8 0	27 47	17 5	6 20
S 9	5 43	28 10	5 13	9 24	1 35	0 57	8 34	17 48	1 9	3 20	1 36	0 47	2 9	23 8	0 20	5 36	1 36	22 48	8 33	7 53	8 1	27 46	17 5	6 20
M10	5 20	28 16	4 52	9 43	1 16	1 13	8 30	17 37	1 9	3 17	1 36	0 44	2 9	23 7	0 20	5 37	1 36	22 48	8 33	7 53	8 2	27 45	17 6	6 19
T 11	4 57	26 30	4 12	9 58	0 57	1 29	8 26	17 26	1 9	3 15	1 37	0 41	2 9	23 7	0 20	5 38	1 36	22 47	8 33	7 53	8 3	27 44	17 6	6 19
W12	4 35	22 59	3 16	10 10	0 39	1 44	8 20	17 16	1 10	3 12	1 37	0 39	2 9	23 7	0 20	5 38	1 36	22 47	8 33	7 53	8 4	27 44	17 7	6 18
T 13	4 12	18 3	2 8	10 18	0 21	2 0	8 14	17 5	1 10	3 9	1 37	0 36	2 9	23 7	0 20	5 39	1 36	22 47	8 33	7 52	8 6	27 43	17 7	6 18
F 14	3 49	12 9	0 52	10 21	0 5	2 16	8 8	16 54	1 11	3 6	1 37	0 33	2 9	23 7	0 20	5 40	1 36	22 46	8 34	7 52	8 7	27 42	17 8	6 17
S 15	3 26	5 42	0n26	10 21	0n11	2 32	8 0	16 43	1 11	3 3	1 37	0 30	2 9	23 7	0 21	5 41	1 36	22 46	8 34	7 52	8 8	27 41	17 8	6 17
S 16	3 3	0n54	1 41	10 16	0 26	2 47	7 52	16 31	1 11	3 1	1 37	0 27	2 9	23 6	0 21	5 42	1 36	22 46	8 34	7 52	8 9	27 40	17 9	6 16
M17	2 40	7 20	2 48	10 8	0 39	3 3	7 44	16 20	1 12	2 58	1 37	0 24	2 9	23 6	0 21	5 42	1 36	22 45	8 34	7 53	8 10	27 39	17 9	6 16
T 18	2 17	13 17	3 45	9 56	0 52	3 18	7 35	16 9	1 12	2 55	1 37	0 21	2 9	23 6	0 21	5 43	1 36	22 45	8 34	7 53	8 11	27 38	17 10	6 15
W19	1 53	18 29	4 29	9 39	1 3	3 32	7 25	15 57	1 13	2 52	1 38	0 18	2 9	23 6	0 21	5 44	1 36	22 45	8 35	7 54	8 13	27 38	17 10	6 15
T 20	1 30	22 46	4 58	9 20	1 13	3 46	7 15	15 46	1 13	2 49	1 38	0 15	2 9	23 6	0 21	5 45	1 36	22 44	8 35	7 55	8 14	27 37	17 11	6 14
F 21	1 7	25 55	5 13	8 56	1 22	3 59	7 5	15 34	1 13	2 46	1 38	0 12	2 9	23 6	0 21	5 46	1 36	22 44	8 35	7 56	8 15	27 36	17 11	6 14
S 22	0 43	27 50	5 14	8 30	1 29	4 12	6 55	15 22	1 14	2 42	1 38	0 9	2 9	23 6	0 21	5 46	1 36	22 44	8 35	7 56	8 16	27 35	17 12	6 13
S 23	0 20	28 26	5 1	8 1	1 36	4 24	6 44	15 10	1 14	2 39	1 38	0 6	2 9	23 5	0 21	5 47	1 36	22 43	8 35	7 57	8 17	27 34	17 12	6 13
M24	0s3	27 42	4 35	7 29	1 41	4 36	6 33	14 58	1 15	2 36	1 38	0 4	2 9	23 5	0 21	5 48	1 36	22 43	8 36	7 56	8 19	27 33	17 13	6 13
T 25	0 27	25 43	3 57	6 54	1 45	4 47	6 22	14 46	1 15	2 33	1 38	0 1	2 9	23 5	0 21	5 49	1 36	22 43	8 36	7 56	8 20	27 32	17 13	6 12
W26	0 50	22 34	3 9	6 18	1 49	4 57	6 10	14 34	1 15	2 30	1 38	0s 2	2 9	23 5	0 21	5 50	1 36	22 43	8 36	7 55	8 21	27 31	17 14	6 12
T 27	1 13	18 26	2 12	5 39	1 51	5 7	5 59	14 22	1 16	2 27	1 38	0 5	2 9	23 5	0 21	5 50	1 36	22 42	8 36	7 55	8 22	27 30	17 14	6 11
F 28	1 37	13 27	1 8	4 59	1 52	5 15	5 47	14 10	1 16	2 24	1 38	0 8	2 9	23 5	0 21	5 51	1 36	22 42	8 37	7 54	8 23	27 29	17 15	6 11
S 29	2 0	7 50	0s 1	4 17	1 53	5 23	5 36	13 58	1 16	2 20	1 38	0 11	2 9	23 5	0 21	5 52	1 36	22 42	8 37	7 54	8 25	27 28	17 15	6 10
S 30	2s24	1n46	1s11	3n35	1n53	5n31	5s24	13n45	1n17	2n17	1s38	0s14	2n 9	23n 5	0n21	5s53	1n36	22n41	8n37	7s54	8s26	27n27	17s16	6n10

ASTRODIENST EPHEMERIS for the year 1951

geocentric

OCTOBER 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 35 41	7♂ 0'29	6♂ 0	27♂ 7	2♂ 47	27♂ 31	9°R26	5♂ 40	13♂ 49	18♂ 49	20♂ 53	9°R45	8♂ 20	10♂ 1	27♂ 27	M 1
T 2	0 39 37	7°59'30	19°29	28°55	3° 1	28° 8	9°Y18	5°47	13°50	18°51	20°55	9°H41	8°17	10° 8	27°30	T 2
W 3	0 43 34	8°58'34	3♂ 14	0♂ 43	3°18	28°45	9°10	5°55	13°51	18°53	20°56	9°37	8°13	10°15	27°32	W 3
T 4	0 47 30	9°57'39	17°12	2°31	3°36	29°23	9° 2	6° 2	13°52	18°55	20°57	9°32	8°10	10°22	27°35	T 4
F 5	0 51 27	10°56'46	1♂ 18	4°19	3°56	29°59	8°54	6°10	13°53	18°57	20°59	9°28	8° 7	10°28	27°38	F 5
S 6	0 55 24	11°55'56	15°29	6° 7	4°18	0♂ 36	8°46	6°17	13°54	19° 0	21° 0	9°24	8° 4	10°35	27°41	S 6
S 7	0 59 20	12°55'07	29°42	7°54	4°42	1°13	8°38	6°24	13°55	19° 2	21° 1	9°22	8° 1	10°42	27°44	S 7
M 8	1 3 17	13°54'19	13♂ 54	9°40	5° 8	1°50	8°30	6°32	13°55	19° 4	21° 2	9°D22	7°58	10°48	27°47	M 8
T 9	1 7 13	14°53'34	28° 3	11°26	5°35	2°27	8°22	6°39	13°56	19° 6	21° 4	9°22	7°54	10°55	27°50	T 9
W10	1 11 10	15°52'50	12♂ 7	13°12	6° 4	3° 4	8°14	6°47	13°57	19° 9	21° 5	9°23	7°51	11° 2	27°54	W10
T 11	1 15 6	16°52'08	26° 5	14°56	6°34	3°41	8° 6	6°54	13°57	19°11	21° 6	9°25	7°48	11° 8	27°57	T 11
F 12	1 19 3	17°51'28	9♂ 55	16°40	7° 6	4°17	7°58	7° 1	13°58	19°13	21° 7	9°R25	7°45	11°15	28° 0	F 12
S 13	1 23 0	18°50'49	23°36	18°24	7°40	4°54	7°50	7° 9	13°58	19°15	21° 8	9°25	7°42	11°22	28° 4	S 13
S 14	1 26 56	19°50'12	7°Y 6	20° 7	8°14	5°31	7°43	7°16	13°58	19°18	21°10	9°22	7°39	11°29	28° 7	S 14
M15	1 30 53	20°49'38	20°24	21°49	8°50	6° 7	7°35	7°23	13°59	19°20	21°11	9°17	7°35	11°35	28°11	M15
T 16	1 34 49	21°49'05	3♂ 27	23°30	9°28	6°44	7°27	7°30	13°59	19°22	21°12	9°10	7°32	11°42	28°14	T 16
W17	1 38 46	22°48'34	16°14	25°11	10° 6	7°20	7°20	7°38	13°59	19°24	21°13	9° 2	7°29	11°49	28°18	W17
T 18	1 42 42	23°48'06	28°47	26°51	10°46	7°57	7°13	7°45	13°59	19°26	21°14	8°54	7°26	11°55	28°22	T 18
F 19	1 46 39	24°47'40	11♂ 4	28°30	11°27	8°33	7° 5	7°52	14° 0	19°29	21°15	8°47	7°23	12° 2	28°26	F 19
S 20	1 50 35	25°47'16	23°10	0♂ 9	12°10	9° 9	6°58	7°59	14° 0	19°31	21°16	8°40	7°19	12° 9	28°30	S 20
S 21	1 54 32	26°46'55	5♂ 6	1°47	12°53	9°46	6°51	8° 7	14°R 0	19°33	21°17	8°35	7°16	12°15	28°34	S 21
M22	1 58 28	27°46'35	16°58	3°24	13°37	10°22	6°44	8°14	14° 0	19°35	21°18	8°33	7°13	12°22	28°38	M22
T 23	2 2 25	28°46'18	28°48	5° 1	14°22	10°58	6°37	8°21	14° 0	19°38	21°19	8°D32	7°10	12°29	28°42	T 23
W24	2 6 22	29°46'03	10♂ 44	6°37	15° 9	11°34	6°30	8°28	13°59	19°40	21°19	8°33	7° 7	12°36	28°46	W24
T 25	2 10 18	0♂ 45'50	22°49	8°13	15°56	12°11	6°23	8°35	13°59	19°42	21°20	8°34	7° 4	12°42	28°51	T 25
F 26	2 14 15	1°45'40	5♂ 10	9°48	16°44	12°47	6°17	8°42	13°59	19°44	21°21	8°R35	7° 0	12°49	28°55	F 26
S 27	2 18 11	2°45'32	17°50	11°23	17°33	13°23	6°10	8°49	13°59	19°46	21°22	8°34	6°57	12°56	28°59	S 27
S 28	2 22 8	3°45'25	0♂ 52	12°57	18°23	13°59	6° 4	8°56	13°58	19°49	21°23	8°32	6°54	13° 2	29° 4	S 28
M29	2 26 4	4°45'21	14°19	14°31	19°13	14°35	5°58	9° 3	13°58	19°51	21°23	8°27	6°51	13° 9	29° 8	M29
T 30	2 30 1	5°45'19	28° 9	16° 4	20° 5	15°11	5°52	9°10	13°57	19°53	21°24	8°20	6°48	13°16	29°13	T 30
W31	2 33 57	6♂ 45'19	12♂ 20	17♂ 36	20♂ 57	15♂ 47	5°Y46	9♂ 17	13♂ 57	19♂ 55	21♂ 25	8♂ 11	6♂ 44	13♂ 22	29♂ 17	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	2s47	4s31	2s19	2n51	1n52	5n37	5s13	13n33	1n17	2n14	1s38	0s17	2n 9	23n 5	0n21	5s54
T 2	3 10	10 43	3 20	2 7	1 50	5 43	5 1	13 20	1 18	2 11	1 38	0 20	2 9	23 5	0 21	5 55
W 3	3 34	16 32	4 12	1 22	1 48	5 48	4 50	13 8	1 18	2 8	1 38	0 23	2 9	23 5	0 21	5 55
T 4	3 57	21 35	4 49	0 36	1 45	5 52	4 38	12 55	1 18	2 5	1 38	0 26	2 9	23 4	0 21	5 56
F 5	4 20	25 28	5 9	0s10	1 42	5 55	4 27	12 42	1 19	2 1	1 38	0 28	2 9	23 4	0 21	5 57
S 6	4 43	27 48	5 10	0 56	1 38	5 58	4 15	12 30	1 19	1 58	1 38	0 31	2 9	23 4	0 21	5 58
S 7	5 6	28 19	4 53	1 42	1 34	6 0	4 4	12 17	1 19	1 55	1 38	0 34	2 9	23 4	0 21	5 59
M 8	5 29	26 59	4 17	2 28	1 29	6 1	3 53	12 4	1 20	1 52	1 38	0 37	2 9	23 4	0 21	6 0
T 9	5 52	23 55	3 26	3 14	1 25	6 1	3 42	11 51	1 20	1 49	1 38	0 40	2 9	23 4	0 21	6 1
W10	6 15	19 27	2 23	3 49	1 20	6 1	3 31	11 38	1 21	1 46	1 38	0 43	2 9	23 4	0 21	6 1
T 11	6 38	13 57	1 12	4 55	1 14	6 0	3 20	11 25	1 21	1 43	1 38	0 46	2 9	23 4	0 21	6 2
F 12	7 1	7 49	0n 3	5 30	1 8	5 58	3 10	11 12	1 21	1 40	1 38	0 48	2 9	23 4	0 21	6 3
S 13	7 23	1 22	1 16	6 15	1 3	5 56	2 59	10 59	1 22	1 37	1 38	0 51	2 9	23 4	0 21	6 4
S 14	7 46	5n 2	2 24	6 59	0 57	5 52	2 49	10 46	1 22	1 34	1 38	0 54	2 9	23 4	0 21	6 5
M15	8 8	11 7	3 23	7 43	0 50	5 48	2 39	10 33	1 22	1 31	1 38	0 57	2 10	23 4	0 21	6 6
T 16	8 30	16 35	4 11	8 27	0 44	5 44	2 29	10 20	1 23	1 28	1 38	1 0	2 10	23 4	0 21	6 6
W17	8 52	21 14	4 44	9 10	0 38	5 38	2 19	10 6	1 23	1 25	1 37	1 3	2 10	23 4	0 21	6 7
T 18	9 14	24 49	5 3	9 52	0 31	5 32	2 9	9 53	1 23	1 22	1 37	1 5	2 10	23 4	0 21	6 8
F 19	9 36	27 11	5 7	10 34	0 24	5 26	2 0	9 40	1 24	1 20	1 37	1 8	2 10	23 4	0 21	6 9
S 20	9 58	28 14	4 58	11 15	0 18	5 18	1 50	9 26	1 24	1 17	1 37	1 11	2 10	23 4	0 21	6 10
S 21	10 20	27 56	4 36	11 55	0 11	5 10	1 41	9 13	1 24	1 14	1 37	1 14	2 10	23 4	0 22	6 11
M22	10 41	26 22	4 2	12 35	0 4	5 2	1 32	8 59	1 25	1 11	1 37	1 16	2 10	23 4	0 22	6 11
T 23	11 2	23 37	3 17	13 14	0s 3	4 52	1 23	8 46	1 25	1 9	1 37	1 19	2 10	23 4	0 22	6 12
W24	11 24	19 51	2 24	13 53	0 9	4 42	1 15	8 33	1 26	1 6	1 37	1 22	2 10	23 4	0 22	6 13
T 25	11 45	15 14	1 24	14 30	0 16	4 32	1 6	8 19	1 26	1 4	1 36	1 24	2 10	23 4	0 22	6 14
F 26	12 5	9 54	0 18	15 7	0 23	4 21	0 58	8 6	1 26	1 1	1 36	1 27	2 11	23 4	0 22	6 15
S 27	12 26	4 3	0s49	15 43	0 30	4 9	0 50	7 52	1 27	0 59	1 36	1 30	2 11	23 4	0 22	6 16
S 28	12 46	2s 8	1 57	16 18	0 36	3 57	0 42	7 38	1 27	0 57	1 36	1 32	2 11	23 4	0 22	6 16
M29	13 7	8 24	2 59	16 53	0 43	3 45	0 34	7 25	1 27	0 54	1 36	1 35	2 11	23 5	0 22	6 17
T 30	13 27	14 27	3 53	17 26	0 50	3 32	0 26	7 11	1 28	0 52	1 35	1 38	2 11	23 5	0 22	6 18
W31	13s47	19s53	4s34	17s59	0s56	3n18	0s19	6n58	1n28	0n50	1s35	1s40	2n11	23n 5	0n22	6s19

Julian Day Number = 2433920.5, Delta T = 29.61 sec

Ecliptic obliquity = 23°26'53, Nutation = 0°00'06, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°03'59, Lahiri = 23°10'59

ASTRODIENST EPHEMERIS for the year 1951
geocentric

NOVEMBER 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 37 54	7♈45'21	26♈46	19♈9	21♈49	16♈22	5°R40	9♈24	13°R56	19♈57	21♈26	8°R 1	6♈41	13♈29	29♈22	T 1
F 2	2 41 51	8°45'25	11♈21	20°40	22°43	16°58	5°V35	9°30	13♈56	19°59	21°26	7♈52	6°38	13°36	29°27	F 2
S 3	2 45 47	9°45'30	25°57	22°12	23°37	17°34	5°29	9°37	13°55	20° 2	21°27	7°43	6°35	13°43	29°32	S 3
S 4	2 49 44	10°45'37	10♈39	23°43	24°32	18°10	5°24	9°44	13°54	20° 4	21°27	7°37	6°32	13°49	29°37	S 4
M 5	2 53 40	11°45'46	24°50	25°13	25°27	18°45	5°19	9°51	13°54	20° 6	21°28	7°34	6°29	13°56	29°41	M 5
T 6	2 57 37	12°45'56	8♈59	26°43	26°23	19°21	5°14	9°57	13°53	20° 8	21°28	7°D33	6°25	14° 3	29°46	T 6
W 7	3 1 33	13°46'07	22°54	28°13	27°20	19°56	5°10	10° 4	13°52	20°10	21°29	7°33	6°22	14° 9	29°51	W 7
T 8	3 5 30	14°46'20	6♈36	29°42	28°17	20°32	5° 5	10°10	13°51	20°12	21°29	7°R33	6°19	14°16	29°57	T 8
F 9	3 9 26	15°46'35	20° 5	1♈10	29°14	21° 7	5° 1	10°17	13°50	20°14	21°30	7°33	6°16	14°23	0♈2	F 9
S 10	3 13 23	16°46'51	3♈22	2°38	0♈13	21°42	4°57	10°23	13°49	20°16	21°30	7°30	6°13	14°29	0° 7	S 10
S 11	3 17 20	17°47'08	16°29	4° 6	1°11	22°18	4°53	10°30	13°48	20°18	21°31	7°24	6°10	14°36	0°12	S 11
M12	3 21 16	18°47'27	29°24	5°33	2°11	22°53	4°49	10°36	13°47	20°20	21°31	7°16	6° 6	14°43	0°17	M12
T 13	3 25 13	19°47'48	12♈8	6°59	3°10	23°28	4°45	10°43	13°46	20°22	21°31	7° 5	6° 3	14°49	0°23	T 13
W14	3 29 9	20°48'10	24°42	8°25	4°10	24° 3	4°42	10°49	13°44	20°24	21°32	6°52	6° 0	14°56	0°28	W14
T 15	3 33 6	21°48'34	7♈4	9°51	5°11	24°38	4°39	10°55	13°43	20°26	21°32	6°38	5°57	15° 3	0°33	T 15
F 16	3 37 2	22°49'00	19°15	11°15	6°12	25°13	4°36	11° 1	13°42	20°28	21°32	6°25	5°54	15°10	0°39	F 16
S 17	3 40 59	23°49'27	1♈16	12°39	7°13	25°48	4°33	11° 7	13°40	20°30	21°32	6°13	5°50	15°16	0°44	S 17
S 18	3 44 56	24°49'56	13°10	14° 2	8°15	26°23	4°30	11°13	13°39	20°32	21°33	6° 4	5°47	15°23	0°50	S 18
M19	3 48 52	25°50'27	24°59	15°24	9°17	26°58	4°28	11°19	13°37	20°34	21°33	5°58	5°44	15°30	0°55	M19
T 20	3 52 49	26°51'00	6♈48	16°44	10°20	27°33	4°26	11°25	13°36	20°36	21°33	5°54	5°41	15°36	1° 1	T 20
W21	3 56 45	27°51'34	18°41	18° 4	11°23	28° 7	4°24	11°31	13°34	20°38	21°33	5°52	5°38	15°43	1° 7	W21
T 22	4 0 42	28°52'10	0♈43	19°22	12°26	28°42	4°22	11°37	13°33	20°40	21°33	5°52	5°35	15°50	1°12	T 22
F 23	4 4 38	29°52'48	13° 0	20°38	13°30	29°17	4°20	11°43	13°31	20°42	21°33	5°52	5°31	15°56	1°18	F 23
S 24	4 8 35	0♈53'27	25°37	21°53	14°34	29°51	4°19	11°49	13°30	20°43	21°R33	5°51	5°28	16° 3	1°24	S 24
S 25	4 12 31	1°54'08	8♈40	23° 6	15°38	0♈26	4°18	11°54	13°28	20°45	21°33	5°48	5°25	16°10	1°29	S 25
M26	4 16 28	2°54'51	22°10	24°16	16°43	1° 0	4°17	12° 0	13°26	20°47	21°33	5°42	5°22	16°16	1°35	M26
T 27	4 20 24	3°55'35	6♈10	25°24	17°48	1°34	4°16	12° 5	13°24	20°49	21°33	5°33	5°19	16°23	1°41	T 27
W28	4 24 21	4°56'21	20°35	26°28	18°53	2° 8	4°15	12°11	13°22	20°50	21°33	5°22	5°16	16°30	1°47	W28
T 29	4 28 18	5°57'08	5♈22	27°29	19°58	2°43	4°15	12°16	13°21	20°52	21°33	5°10	5°12	16°37	1°53	T 29
F 30	4 32 14	6♈57'57	20♈22	28♈26	21♈4	3♈17	4°D15	12♈21	13♈19	20♈54	21♈32	4♈58	5♈9	16♈43	1♈59	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	decl	lat
T 1	14s 6	24s16	4s58	18s31	1s 2	3n 4	0s12	6n44	1n28	0n48	1s35	1s43	2n11	23n 5	0n22	6s20	1n36	22n39	8n46	8s34	9s 4	26n52	17s29	5n57					
F 2	14 25	27 9	5 3	19 2	1 9	2 49	0 5	6 30	1 29	0 46	1 35	1 45	2 11	23 5	0 22	6 20	1 36	22 39	8 46	8 38	9 5	26 51	17 30	5 57					
S 3	14 45	28 12	4 49	19 32	1 15	2 34	0n 2	6 17	1 29	0 44	1 35	1 48	2 11	23 5	0 22	6 21	1 36	22 39	8 47	8 41	9 6	26 50	17 30	5 57					
S 4	15 3	27 17	4 16	20 1	1 21	2 19	0 9	6 3	1 29	0 42	1 34	1 50	2 12	23 5	0 22	6 22	1 36	22 39	8 47	8 43	9 7	26 48	17 30	5 56					
M 5	15 22	24 33	3 27	20 29	1 27	2 3	0 16	5 50	1 30	0 40	1 34	1 53	2 12	23 5	0 22	6 23	1 36	22 39	8 47	8 44	9 8	26 47	17 31	5 56					
T 6	15 41	20 22	2 26	20 56	1 33	1 46	0 22	5 36	1 30	0 39	1 34	1 55	2 12	23 5	0 22	6 23	1 36	22 39	8 48	8 44	9 9	26 46	17 31	5 56					
W 7	15 59	15 6	1 17	21 22	1 38	1 30	0 28	5 22	1 30	0 37	1 34	1 58	2 12	23 5	0 22	6 24	1 36	22 39	8 48	8 44	9 11	26 45	17 31	5 56					
T 8	16 16	9 10	0 5	21 47	1 44	1 13	0 34	5 9	1 31	0 35	1 34	2 0	2 12	23 6	0 22	6 25	1 36	22 40	8 48	8 44	9 12	26 43	17 32	5 55					
F 9	16 34	2 55	1n 6	22 11	1 49	0 55	0 40	4 55	1 31	0 34	1 33	2 3	2 12	23 6	0 22	6 26	1 36	22 40	8 49	8 45	9 13	26 42	17 32	5 55					
S 10	16 51	3n22	2 12	22 33	1 54	0 37	0 46	4 41	1 31	0 33	1 33	2 5	2 12	23 6	0 22	6 26	1 36	22 40	8 49	8 46	9 14	26 41	17 32	5 55					
S 11	17 8	9 25	3 11	22 55	1 59	0 19	0 52	4 28	1 32	0 31	1 33	2 7	2 13	23 6	0 22	6 27	1 36	22 40	8 49	8 48	9 15	26 39	17 32	5 55					
M12	17 25	14 58	3 58	23 15	2 3	0 0	0 57	4 14	1 32	0 30	1 33	2 10	2 13	23 6	0 22	6 28	1 36	22 40	8 50	8 51	9 16	26 38	17 33	5 54					
T 13	17 42	19 49	4 33	23 35	2 7	0s18	1 2	4 0	1 32	0 29	1 32	2 12	2 13	23 6	0 22	6 29	1 36	22 41	8 50	8 55	9 18	26 37	17 33	5 54					
W14	17 58	23 42	4 54	23 53	2 12	0 38	1 7	3 47	1 33	0 28	1 32	2 14	2 13	23 6	0 22	6 29	1 36	22 41	8 50	9 0	9 19	26 36	17 33	5 54					
T 15	18 13	26 26	5 0	24 10	2 15	0 57	1 12	3 33	1 33	0 27	1 32	2 17	2 13	23 7	0 22	6 30	1 36	22 41	8 51	9 5	9 20	26 34	17 33	5 54					
F 16	18 29	27 53	4 53	24 25	2 19	1 17	1 17	3 20	1 33	0 26	1 31	2 19	2 13	23 7	0 22	6 31	1 36	22 41	8 51	9 10	9 21	26 33	17 33	5 53					
S 17	18 44	27 59	4 33	24 40	2 22	1 37	1 22	3 6	1 34	0 25	1 31	2 21	2 14	23 7	0 22	6 31	1 36	22 41	8 51	9 14	9 22	26 32	17 34	5 53					
S 18	18 59	26 47	4 1	24 53	2 24	1 57	1 26	2 52	1 34	0 24	1 31	2 23	2 14	23 7	0 22	6 32	1 36	22 42	8 52	9 17	9 24	26 30	17 34	5 53					
M19	19 13	24 23	3 18	25 5	2 27	2 18	1 30	2 39	1 34	0 23	1 31	2 26	2 14	23 7	0 22	6 33	1 36	22 42	8 52	9 20	9 25	26 29	17 34	5 53					
T 20	19 28	20 57	2 27	25 15	2 29	2 39	1 34	2 25	1 35	0 23	1 30	2 28	2 14	23 7	0 22	6 34	1 36	22 42	8 52	9 21	9 26	26 27	17 34	5 53					
W21	19 41	16 39	1 30	25 24	2 30	3 0	1 38	2 12	1 35	0 22	1 30	2 30	2 14	23 8	0 22	6 34	1 36	22 42	8 53	9 22	9 27	26 26	17 34	5 52					
T 22	19 55	11 39	0 27	25 32	2 31	3 21	1 42	1 58	1 35	0 22	1 30	2 32	2 15	23 8	0 22	6 35	1 36	22 43	8 53	9 22	9 28	26 25	17 34	5 52					
F 23	20 8	6 6	0s38	25 38	2 31	3 42	1 46	1 45	1 36	0 21	1 30	2 34	2 15	23 8	0 22	6 36	1 36	22 43	8 53	9 22	9 29	26 23	17 35	5 52					
S 24	20 21	0 10	1 42	25 43	2 31	4 4	1 49	1 32	1 36	0 21	1 29	2 36	2 15	23 8	0 22	6 36	1 37	22 43	8 54	9 22	9 31	26 22	17 35	5 52					
S 25	20 33	5s57	2 44	25 46	2 31	4 25	1 53	1 18	1 36	0 21	1 29	2 38	2 15	23 8	0 22	6 37	1 37	22 44	8 54	9 23	9 32	26 21	17 35	5 52					
M26	20 45	12 1	3 39	25 48	2 29	4 47	1 56	1 5	1 37	0 21	1 29	2 40	2 15	23 9	0 22	6 37	1 37	22 44	8 54	9 26	9 33	26 19	17 35	5 52					
T 27	20 57	17 42	4 22	25 49	2 27	5 9	1 59	0 51	1 37	0 21	1 28	2 42	2 15	23 9	0 22	6 38	1 37	22 44	8 55	9 29	9 34	26 18	17 35	5 51					
W28	21 8	22 34	4 50	25 48	2 24	5 31	2 2	0 38	1 37	0 21	1 28	2 44	2 16	23 9	0 22	6 39	1 37	22 45	8 55	9 33	9 35	26 16	17 35	5 51					
T 29	21 18	26 7	5 0	25 46	2 20	5 54	2 4	0 25	1 38	0 21	1 28	2 46	2 16	23 9	0 23	6 39	1 37	22 45	8 55	9 37	9 36	26 15	17 35	5 51					
F 30	21s29	27s54	4s49	25s42	2s15	6s16	2n 7	0n12	1n38	0n21	1s28	2s48	2n16	23n 9	0n23	6s40	1n37	22n45	8n55	9s42	9s38	26n13	17s35	5n51					

ASTRODIENST EPHEMERIS for the year 1951
geocentric

DECEMBER 1951

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	4 36 11	7♌58'47	5♊24	29♊19	22♋10	3♌51	4♍15	12♎27	13♏R17	20♐56	21♑R32	4♒R48	5♓6	16♈50	2♉5	S 1
S 2	4 40 7	8°59'38	20°20	0♊6	23°17	4°25	4°15	12°32	13♎15	20°57	21♑32	4♒40	5°3	16°57	2°11	S 2
M 3	4 44 4	10° 0'29	5♋1	0°48	24°23	4°58	4°16	12°37	13°13	20°59	21°32	4°35	5°0	17°3	2°17	M 3
T 4	4 48 0	11° 1'22	19°23	1°22	25°30	5°32	4°16	12°42	13°11	21°0	21°32	4°33	4°56	17°10	2°23	T 4
W 5	4 51 57	12° 2'15	3♋24	1°50	26°37	6°6	4°17	12°47	13°9	21°2	21°31	4°32	4°53	17°17	2°29	W 5
T 6	4 55 54	13° 3'09	17°3	2°9	27°44	6°39	4°18	12°52	13°6	21°4	21°31	4°32	4°50	17°23	2°35	T 6
F 7	4 59 50	14° 4'03	0♍23	2°R19	28°51	7°13	4°20	12°57	13°4	21°5	21°30	4°31	4°47	17°30	2°41	F 7
S 8	5 3 47	15° 4'59	13°27	2°19	29°59	7°46	4°21	13°1	13°2	21°7	21°30	4°28	4°44	17°37	2°47	S 8
S 9	5 7 43	16° 5'55	26°16	2°8	1♌7	8°20	4°23	13°6	13°0	21°8	21°30	4°23	4°41	17°43	2°53	S 9
M10	5 11 40	17° 6'52	8♊53	1°46	2°15	8°53	4°25	13°11	12°58	21°9	21°29	4°14	4°37	17°50	3°0	M10
T 11	5 15 36	18° 7'49	21°20	1°13	3°23	9°26	4°27	13°15	12°55	21°11	21°29	4°3	4°34	17°57	3°6	T 11
W12	5 19 33	19° 8'48	3♋37	0°28	4°32	9°59	4°29	13°19	12°53	21°12	21°28	3°50	4°31	18°3	3°12	W12
T 13	5 23 29	20° 9'47	15°47	29♊33	5°40	10°32	4°32	13°24	12°51	21°14	21°28	3°35	4°28	18°10	3°18	T 13
F 14	5 27 26	21°10'47	27°49	28°27	6°49	11°5	4°35	13°28	12°48	21°15	21°27	3°22	4°25	18°17	3°24	F 14
S 15	5 31 23	22°11'48	9♋45	27°14	7°58	11°38	4°38	13°32	12°46	21°16	21°27	3°10	4°22	18°24	3°31	S 15
S 16	5 35 19	23°12'49	21°36	25°55	9°7	12°11	4°41	13°36	12°44	21°18	21°26	3°0	4°18	18°30	3°37	S 16
M17	5 39 16	24°13'52	3♌24	24°33	10°17	12°43	4°44	13°40	12°41	21°19	21°25	2°53	4°15	18°37	3°43	M17
T 18	5 43 12	25°14'55	15°13	23°10	11°26	13°16	4°48	13°44	12°39	21°20	21°25	2°49	4°12	18°44	3°49	T 18
W19	5 47 9	26°15'59	27°5	21°49	12°36	13°48	4°51	13°48	12°36	21°21	21°24	2°47	4°9	18°50	3°56	W19
T 20	5 51 5	27°17'04	9♍5	20°34	13°45	14°21	4°55	13°51	12°34	21°22	21°23	2°D47	4°6	18°57	4°2	T 20
F 21	5 55 2	28°18'09	21°19	19°25	14°55	14°53	4°59	13°55	12°32	21°24	21°22	2°48	4°2	19°4	4°8	F 21
S 22	5 58 58	29°19'15	3♌52	18°25	16°5	15°25	5°4	13°59	12°29	21°25	21°22	2°R48	3°59	19°10	4°15	S 22
S 23	6 2 55	0♊20'22	16°48	17°35	17°16	15°57	5°8	14°2	12°26	21°26	21°21	2°46	3°56	19°17	4°21	S 23
M24	6 6 52	1°21'30	0♌12	16°56	18°26	16°29	5°13	14°5	12°24	21°27	21°20	2°43	3°53	19°24	4°27	M24
T 25	6 10 48	2°22'39	14°6	16°27	19°36	17°1	5°18	14°9	12°21	21°28	21°19	2°37	3°50	19°30	4°33	T 25
W26	6 14 45	3°23'48	28°30	16°9	20°47	17°32	5°23	14°12	12°19	21°29	21°18	2°29	3°47	19°37	4°40	W26
T 27	6 18 41	4°24'58	13♊20	16°D 2	21°58	18°4	5°28	14°15	12°16	21°30	21°18	2°19	3°43	19°44	4°46	T 27
F 28	6 22 38	5°26'08	28°29	16°4	23°9	18°35	5°33	14°18	12°14	21°31	21°17	2°10	3°40	19°50	4°52	F 28
S 29	6 26 34	6°27'19	13♋45	16°15	24°20	19°6	5°39	14°21	12°11	21°32	21°16	2°2	3°37	19°57	4°59	S 29
S 30	6 30 31	7°28'29	29°0	16°34	25°31	19°38	5°45	14°23	12°9	21°32	21°15	1°55	3°34	20°4	5°5	S 30
M31	6 34 28	8♊29'40	14°1	17♊1	26♌42	20♌9	5♍51	14♎26	12♏6	21♐33	21♑14	1♒52	3♓31	20♈11	5♉11	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	21s39	27s39	4s19	25s37	2s10	6s38	2n 9	0s 2	1n38	0n21	1s27	2s50	2n16	23n10	0n23	6s40	1n37	22n46	8n56	9s45	9s39	26n12	17s35	5n51
S 2	21 48	25 23	3 31	25 30	2 3	7 0	2 12	0 15	1 38	0 22	1 27	2 51	2 17	23 10	0 23	6 41	1 37	22 46	8 56	9 48	9 40	26 11	17 35	5 51
M 3	21 58	21 26	2 29	25 22	1 55	7 23	2 14	0 28	1 39	0 22	1 27	2 53	2 17	23 10	0 23	6 42	1 37	22 46	8 56	9 50	9 41	26 9	17 35	5 51
T 4	22 6	16 16	1 19	25 12	1 46	7 45	2 16	0 41	1 39	0 23	1 26	2 55	2 17	23 10	0 23	6 42	1 37	22 47	8 57	9 51	9 42	26 8	17 35	5 51
W 5	22 15	10 22	0 6	25 2	1 36	8 8	2 18	0 54	1 39	0 23	1 26	2 57	2 17	23 10	0 23	6 43	1 37	22 47	8 57	9 51	9 43	26 6	17 35	5 50
T 6	22 22	4 6	1n 6	24 50	1 24	8 30	2 19	1 7	1 40	0 24	1 26	2 58	2 17	23 11	0 23	6 43	1 37	22 48	8 57	9 51	9 44	26 5	17 35	5 50
F 7	22 30	2n10	2 12	24 36	1 11	8 52	2 21	1 20	1 40	0 25	1 26	3 0	2 18	23 11	0 23	6 44	1 37	22 48	8 58	9 51	9 46	26 3	17 35	5 50
S 8	22 37	8 14	3 10	24 22	0 56	9 15	2 23	1 33	1 40	0 26	1 25	3 2	2 18	23 11	0 23	6 44	1 37	22 49	8 58	9 52	9 47	26 2	17 35	5 50
S 9	22 43	13 49	3 57	24 6	0 40	9 37	2 24	1 46	1 41	0 27	1 25	3 3	2 18	23 11	0 23	6 45	1 37	22 49	8 58	9 54	9 48	26 0	17 35	5 50
M10	22 49	18 45	4 32	23 49	0 23	9 59	2 25	1 59	1 41	0 28	1 25	3 5	2 18	23 12	0 23	6 45	1 37	22 49	8 59	9 58	9 49	25 59	17 35	5 50
T 11	22 55	22 49	4 53	23 31	0 5	10 21	2 26	2 11	1 41	0 29	1 24	3 6	2 19	23 12	0 23	6 46	1 37	22 50	8 59	10 2	9 50	25 57	17 35	5 50
W12	23 0	25 48	5 0	23 12	0n14	10 44	2 27	2 24	1 42	0 30	1 24	3 8	2 19	23 12	0 23	6 46	1 37	22 50	8 59	10 7	9 51	25 56	17 35	5 50
T 13	23 5	27 33	4 54	22 53	0 34	11 6	2 28	2 37	1 42	0 31	1 24	3 9	2 19	23 12	0 23	6 47	1 37	22 51	9 0	10 12	9 53	25 54	17 35	5 50
F 14	23 9	28 0	4 34	22 32	0 54	11 27	2 28	2 49	1 42	0 33	1 23	3 11	2 19	23 13	0 23	6 47	1 37	22 51	9 0	10 17	9 54	25 53	17 34	5 50
S 15	23 13	27 7	4 2	22 11	1 14	11 49	2 29	3 2	1 42	0 34	1 23	3 12	2 20	23 13	0 23	6 48	1 37	22 52	9 0	10 21	9 55	25 51	17 34	5 50
S 16	23 16	25 0	3 20	21 49	1 34	12 11	2 29	3 14	1 43	0 36	1 23	3 13	2 20	23 13	0 23	6 48	1 38	22 52	9 0	10 25	9 56	25 50	17 34	5 50
M17	23 19	21 49	2 29	21 28	1 52	12 32	2 30	3 27	1 43	0 37	1 23	3 15	2 20	23 13	0 23	6 48	1 38	22 53	9 1	10 27	9 57	25 48	17 34	5 50
T 18	23 22	17 45	1 32	21 8	2 9	12 53	2 30	3 39	1 43	0 39	1 22	3 16	2 20	23 14	0 23	6 49	1 38	22 53	9 1	10 29	9 58	25 47	17 34	5 50
W19	23 24	12 58	0 30	20 49	2 23	13 14	2 30	3 51	1 44	0 41	1 22	3 17	2 21	23 14	0 23	6 49	1 38	22 54	9 1	10 29	10 0	25 45	17 34	5 50
T 20	23 25	7 39	0s34	20 32	2 36	13 35	2 30	4 4	1 44	0 42	1 22	3 18	2 21	23 14	0 23	6 50	1 38	22 54	9 2	10 29	10 1	25 43	17 33	5 50
F 21	23 26	1 57	1 37	20 17	2 46	13 56	2 30	4 16	1 44	0 44	1 21	3 20	2 21	23 14	0 23	6 50	1 38	22 55	9 2	10 29	10 2	25 42	17 33	5 50
S 22	23 27	3s57	2 38	20 4	2 53	14 16	2 29	4 28	1 45	0 46	1 21	3 21	2 21	23 15	0 23	6 50	1 38	22 55	9 2	10 29	10 3	25 40	17 33	5 50
S 23	23 27	9 52	3 33	19 55	2 58	14 37	2 29	4 40	1 45	0 48	1 21	3 22	2 22	23 15	0 23	6 51	1 38	22 56	9 2	10 29	10 4	25 39	17 33	5 50
M24	23 26	15 34	4 17	19 48	3 1	14 56	2 28	4 52	1 45	0 50	1 21	3 23	2 22	23 15	0 23	6 51	1 38	22 56	9 3	10 31	10 5	25 37	17 33	5 50
T 25	23 26	20 40	4 49	19 44	3 2	15 16	2 28	5 4	1 45	0 53	1 20	3 24	2 22	23 15	0 23	6 51	1 38	22 57	9 3	10 33	10 6	25 35	17 32	5 50
W26	23 24	24 46	5 4	19 43	3 1	15 35	2 27	5 15	1 46	0 55	1 20	3 25	2 22	23 16	0 23	6 52	1 38	22 57	9 3	10 36	10 8	25 34	17 32	5 50
T 27	23 22	27 21	4 59	19 45	2 59	15 54	2 26	5 27	1 46	0 57	1 20	3 26	2 23	23 16	0 23	6 52	1 38	22 58	9 4	10 39	10 9	25 32	17 32	5 50
F 28	23 20	28 0	4 34	19 49	2 55	16 13	2 25	5 39	1 46	1 0	1 19	3 27	2 23	23 16	0 23	6 52	1 38	22 59	9 4	10 42	10 10	25 31	17 31	5 50
S 29	23 17	26 31	3 48	19 55	2 51	16 32	2 24	5 50	1 47	1 2	1 19	3 27	2 23	23 16	0 23	6 53	1 38	22 59	9 4	10 45	10 11	25 29	17 31	5 50
S 30	23 14	23 5	2 47	20 2	2 45	16 50	2 23	6 2	1 47	1 5	1 19	3 28	2 23	23 17	0 23	6 53	1 38	23 0	9 4	10 48	10 12	25 27	17 31	5 50
M31	23s11	18s 8	1s34	20s11	2n38	17s 7	2n22	6s13	1n47	1n 7	1s19	3s29	2n24	23n17	0n23	6s53	1n38	23n 0	9n 5	10s49	10s13	25n26	17s30	5n51