



Astrodienst Ephemeris Tables for the year 1653

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 1653
geocentric

JANUARY 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	6 43 59	11°38' 8"14	27°33' 39"	23°38' 42"	27°11' 21"	26°18' 18"	21°35' 35"	11°18' 15"	27°37' 32"	21°37' 58"	12°18' 34"	25°18' 24"	26°18' 21"	4°12' 5"	24°12' 7"	W 1
T 2	6 47 56	12° 9'25"	11°34' 42"	25°19' 28"	28°31' 26"	26°51' 21"	21°49' 11"	11°11' 7"	27°35' 22"	22° 0' 12"	12°11' 33"	25°15' 15"	26°18' 4"	4°12' 24"	24°12' 2"	T 2
F 3	6 51 52	13°10'37"	25°52' 10"	26°56' 29"	29°41' 27"	27°24' 22"	22° 3' 11"	11° 3' 27"	27°39' 22"	22° 2' 12"	12°32' 25"	25°10' 26"	26°15' 4"	4°18' 24"	24°16' 3"	F 3
S 4	6 55 49	14°11'48"	10°18' 3"	28°32' 00"	27°51' 27"	27°56' 22"	22°17' 11"	11° 3' 27"	27°42' 22"	22° 4' 12"	12°31' 25"	25° 6' 26"	26°12' 4"	4°25' 24"	24°20' 4"	S 4
S 5	6 59 46	15°12'58"	24°14' 00"	00° 8' 2"	2° 1' 31"	28°29' 22"	22°31' 10"	10°59' 27"	27°46' 22"	22° 6' 12"	12°30' 25"	25°D 6'	26° 8' 4"	4°32' 24"	24°24' 5"	S 5
M 6	7 3 42	16°14'08"	8°12' 22"	1°42' 31"	3°11' 29"	28°29' 22"	22°31' 10"	10°54' 27"	27°49' 22"	22° 8' 12"	12°29' 25"	25° 6' 26"	26° 5' 4"	4°38' 24"	24°27' 6"	M 6
T 7	7 7 39	17°15'17"	22°26' 31"	3°15' 4"	4°22' 29"	29°33' 23"	23° 0' 10"	10°50' 27"	27°53' 22"	22°10' 12"	12°28' 25"	25°R 6'	26° 2' 4"	4°45' 24"	24°31' 7"	T 7
W 8	7 11 35	18°16'25"	6°18' 26"	4°46' 5"	5°32' 0"	30°15' 23"	23°14' 10"	10°46' 27"	27°56' 22"	22°12' 12"	12°27' 25"	25° 5' 25"	25°59' 4"	4°52' 24"	24°35' 8"	W 8
T 9	7 15 32	19°17'33"	20°20' 6"	6°16' 6"	6°43' 0"	23°28' 1°	23°28' 10"	10°42' 27"	27°59' 22"	22°15' 12"	12°26' 25"	25° 1' 25"	25°56' 4"	4°58' 24"	24°38' 9"	T 9
F 10	7 19 28	20°18'40"	4°11' 8"	7°43' 7"	7°53' 1°	23°42' 1°	23°42' 10"	10°37' 28"	28° 3' 22"	22°17' 12"	12°26' 24"	25°54' 25"	25°52' 5"	5° 5' 24"	24°41' 10"	F 10
S 11	7 23 25	21°19'47"	17°48' 9"	9° 7' 9"	9° 4' 1°	23°56' 23"	23°56' 10"	10°33' 28"	28° 6' 22"	22°19' 12"	12°25' 24"	25°49' 25"	5°12' 24"	5°12' 24"	24°45' 11"	S 11
S 12	7 27 21	22°20'52"	1°18' 18"	10°28' 10"	10°15' 2°	2°12' 24"	24°10' 10"	10°28' 28"	28°10' 22"	22°21' 12"	12°24' 24"	24°35' 25"	25°46' 5"	5°18' 24"	24°48' 12"	S 12
M13	7 31 18	23°21'57"	14°35' 11"	11°45' 11"	11°26' 2°	2°44' 24"	24°24' 10"	10°24' 28"	28°13' 22"	22°23' 12"	12°23' 24"	24°23' 25"	25°43' 5"	5°25' 24"	24°51' 13"	M13
T 14	7 35 15	24°23'02"	27°37' 12"	12°57' 12"	12°37' 3°	3°15' 24"	24°39' 10"	10°19' 28"	28°16' 22"	22°25' 12"	12°22' 24"	24°12' 25"	25°40' 5"	5°31' 24"	24°54' 14"	T 14
W15	7 39 11	25°24'05"	10°12' 3"	13°49' 3°	13°49' 3°	3°46' 24"	24°53' 10"	10°14' 28"	28°20' 22"	22°27' 12"	12°21' 24°	23° 3' 25"	25°37' 5"	5°38' 24"	24°56' 15"	W15
T 16	7 43 8	26°25'08"	22°52' 15"	15° 3' 15"	15° 0' 4"	4°18' 25"	25° 7' 10"	10°10' 28"	28°23' 22"	22°29' 12"	12°20' 23°	23°56' 25"	25°33' 5"	5°45' 24"	24°59' 16"	T 16
F 17	7 47 4	27°26'11"	5°17' 7"	15°56' 16"	16°11' 4"	4°49' 25"	25°21' 10"	10° 5' 28"	28°26' 22"	22°31' 12"	12°20' 23°	23°52' 25"	25°30' 5"	5°51' 25°	2° 2' 17"	F 17
S 18	7 51 1	28°27'12"	17° 9' 16"	16°41' 17"	17°23' 5°	5°20' 25"	25°35' 10"	10° 0' 28"	28°30' 22"	22°33' 12"	12°19' 23°	23°50' 25"	25°27' 5"	5°58' 25°	2° 4' 18"	S 18
S 19	7 54 57	29°28'14"	29° 2' 17"	17°18' 18°	18°34' 5°	5°50' 25"	25°49' 9°	9°56' 28°	28°33' 22°	22°34' 12°	12°18' 23°	23°D50'	25°24' 6°	5° 25°	2° 7' 19"	S 19
M20	7 58 54	00°29'14"	10°12' 17°	14°46' 19°	19°46' 6°	6°21' 26°	26° 4' 9°	9°51' 28°	28°36' 22°	22°36' 12°	12°17' 23°	23°51' 25°	25°21' 6°	5°11' 25°	2° 9' 20"	M20
T 21	8 2 50	1°30'14"	22°38' 18°	1° 20°	20°57' 6°	6°51' 26°	26°18' 9°	9°46' 28°	28°39' 22°	22°38' 12°	12°17' 23°	23°52' 25°	25°18' 6°	5°18' 25°	2°11' 21"	T 21
W22	8 6 47	2°31'13"	4°11' 32"	18°R 6'	22° 9' 7°	7°22' 26°	26°32' 9°	9°41' 28°	28°42' 22°	22°40' 12°	12°16' 23°	23°R52'	25°14' 6°	5°25' 25°	2°13' 22"	W22
T 23	8 10 44	3°32'12"	16°36' 18°	0° 23°	23°21' 7°	7°52' 26°	26°46' 9°	9°36' 28°	28°46' 22°	22°42' 12°	12°15' 23°	23°51' 25°	25°11' 6°	5°31' 25°	2°15' 23"	T 23
F 24	8 14 40	4°33'10"	28°57' 17°	43°33' 24°	24°33' 8°	8°22' 27°	27° 0' 9°	9°31' 28°	28°49' 22°	22°44' 12°	12°15' 23°	23°48' 25°	25° 8' 6°	5°38' 25°	2°16' 24"	F 24
S 25	8 18 37	5°34'08"	11°17' 37"	17°15' 25°	25°45' 8°	8°52' 27°	27°14' 9°	9°26' 28°	28°52' 22°	22°46' 12°	12°14' 23°	23°43' 25°	25° 5' 6°	5°45' 25°	2°18' 25"	S 25
S 26	8 22 33	6°35'04"	24°41' 16°	36°26°	26°57' 9°	9°22' 27°	27°28' 9°	9°21' 28°	28°55' 22°	22°47' 12°	12°13' 23°	23°36' 25°	25° 2' 6°	5°51' 25°	2°20' 26"	S 26
M27	8 26 30	7°36'00"	8°10' 15°	47°28°	28° 9' 9°	9°51' 27°	27°42' 9°	9°17' 28°	28°58' 22°	22°49' 12°	12°13' 23°	23°28' 24°	25°58' 6°	5°58' 25°	2°21' 27"	M27
T 28	8 30 26	8°36'55"	22° 2' 14°	50°29°	29°21' 10°	10°21' 27°	27°56' 9°	9°12' 29°	29° 1' 22°	22°51' 12°	12°12' 23°	23°20' 24°	25°55' 7°	5°55' 25°	2°22' 28"	T 28
W29	8 34 23	9°37'48"	6°15' 13°	46°03°	33°10°	10°50' 28°	28°11' 9°	9° 7' 29°	29° 4' 22°	22°53' 12°	12°12' 23°	23°13' 24°	25°52' 7°	5°52' 25°	2°23' 29"	W29
T 30	8 38 20	10°38'41"	20°43' 12°	37°1°	1°46' 11°	11°19' 28°	28°25' 9°	9° 2' 29°	29° 7' 22°	22°54' 12°	12°11' 23°	23° 7' 24°	25°49' 7°	5°18' 25°	2°24' 30"	T 30
F 31	8 42 16	11°39'32"	5°18' 20"	26°11°	26°58' 11°	11°48' 28°	28°39' 8°	8°15' 29°	29°10' 22°	22°56' 12°	12°11' 23°	23°18' 24°	25°46' 7°	5°24' 25°	2°25' 31"	F 31

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	lat
W 1	23s 1	24s50	4s15	23s27	2s 5	17s 5	2n35	8s43	1n34	22s 4	0s19	18n14	0n50	23s39	0s11	21s58	1n16	12n50	9s36	1s50	1s27	2s16	10s23	1s 5		
T 2	22 56	20 39	3 28	23 7	2 2	17 22	2 34	8 54	1 34	22 2	0 19	18 15	0 50	23 39	0 11	21 59	1 16	12 50	9 35	1 53	1 28	2 19	10 24	1 5		
F 3	22 50	15 15	2 28	22 45	1 59	17 38	2 33	9 6	1 34	22 0	0 19	18 17	0 50	23 39	0 11	21 59	1 16	12 50	9 35	1 56	1 30	2 23	10 26	1 5		
S 4	22 44	9 2	1 19	22 22	1 55	17 54	2 31	9 18	1 34	21 58	0 19	18 18	0 50	23 39	0 11	21 59	1 16	12 50	9 35	1 57	1 31	2 26	10 27	1 5		
S 5	22 37	2 22	0 5	21 58	1 51	18 10	2 29	9 29	1 34	21 55	0 20	18 19	0 50	23 39	0 11	21 59	1 16	12 50	9 35	1 57	1 32	2 30	10 28	1 4		
M 6	22 30	4n24	1n10	21 32	1 46	18 25	2 27	9 41	1 34	21 53	0 20	18 20	0 51	23 39	0 11	21 59	1 16	12 50	9 35	1 57	1 34	2 33	10 30	1 4		
T 7	22 22	10 55	2 20	21 5	1 40	18 40	2 26	9 52	1 34	21 51	0 20	18 22	0 51	23 39	0 11	21 59	1 16	12 50	9 35	1 57	1 35	2 36	10 31	1 4		
W 8	22 14	16 51	3 21	20 37	1 33	18 55	2 24	10 3	1 34	21 49	0 20	18 23	0 51	23 39	0 11	21 59	1 16	12 50	9 35	1 58	1 36	2 40	10 32	1 4		
T 9	22 6	21 53	4 10	20 7	1 25	19 9	2 22	10 14	1 34	21 46	0 20	18 24	0 51	23 40	0 11	21 59	1 16	12 50	9 34	1 59	1 37	2 43	10 33	1 4		
F 10	21 57	25 40	4 44	19 37	1 17	19 22	2 19	10 25	1 34	21 44	0 20	18 26	0 51	23 40	0 11	21 59	1 16	12 50	9 34	2 2	1 39	2 47	10 34	1 3		
S 11	21 48	27 55	5 1	19 6	1 8	19 36	2 17	10 36	1 34	21 41	0 20	18 27	0 51	23 40	0 11	22 0	1 16	12 50	9 34	2 5	1 40	2 50	10 35	1 3		
S 12	21 38	28 30	5 1	18 34	0 57	19 48	2 15	10 47	1 34	21 39	0 20	18 28	0 51	23 40	0 11	22 0	1 16	12 50	9 34	2 10	1 41	2 54	10 36	1 3		
M13	21 28	27 24	4 45	18 2	0 46	20 0	2 13	10 58	1 34	21 37	0 20	18 30	0 52	23 40	0 11	22 0	1 16	12 50	9 34	2 14	1 42	2 57	10 37	1 3		
T 14	21 17	24 50	4 14	17 30	0 34	20 12	2 10	11 9	1 34	21 34	0 20	18 31	0 52	23 40	0 11	22 0	1 16	12 51	9 33	2 18	1 44	3 1	10 38	1 3		
W15	21 6	21 3	3 31	16 59	0 21	20 23	2 8	11 19	1 34	21 32	0 20	18 33	0 52	23 40	0 11	22 0	1 16	12 51	9 33	2 22	1 45	3 4	10 38	1 2		
T 16	20 55	16 24	2 38	16 28	0 7	20 34	2 5	11 30	1 34	21 29	0 21	18 34	0 52	23 40	0 11	22 0	1 16	12 51	9 33	2 25	1 46	3 7	10 39	1 2		
F 17	20 43	11 11	1 39	15 58	0n 8	20 44	2 3	11 40	1 34	21 27	0 21	18 35	0 52	23 40	0 11	22 0	1 16	12 51	9 33	2 27	1 47	3 11	10 40	1 2		
S 18	20 31	5 38	0 36	15 29	0 24	20 54	2 0	11 50	1 34	21 24	0 21	18 37	0 52	23 40	0 11	22 0	1 16	12 51	9 33	2 27	1 49	3 14	10 41	1 2		
S 19	20 18	0s 3	0s28	15 3	0 40	21 3	1 57	12 1	1 34	21 22	0 21	18 38	0 52	23 40	0 11	22 0	1 16	12 51	9 32	2 27	1 50	3 18	10 41	1 1		
M20	20 5	5 41	1 30	14 38	0 57	21 11	1 54	12 11	1 34	21 19	0 21	18 40	0 52	23 40	0 11	22 0	1 16	12 51	9 32	2 27	1 51	3 21	10 42	1 1		
T 21	19 52	11 7	2 29	14 17	1 15	21 19	1 52	12 21	1 34	21 17	0 21	18 41	0 53	23 40	0 11	22 1	1 16	12 51	9 32	2 27	1 52	3 25	10 43	1 1		
W22	19 38	16 13	3 21	13 58	1 32	21 27	1 49	12 31	1 34	21 14	0 21	18 42	0 53	23 40	0 11	22 1	1 17	12 51	9 32	2 26	1 54	3 28	10 43	1 1		
T 23	19 24	20 45	4 6	13 43	1 50	21 33	1 46	12 41	1 34	21 12	0 21	18 44	0 53	23 40	0 11	22 1	1 17	12 51	9 32	2 27	1 55	3 32	10 44	1 1		
F 24	19 10	24 31	4 40	13 31	2 8	21 40	1 43	12 50	1 34	21 9	0 21	18 45	0 53	23 40	0 11	22 1	1 17	12 52	9 31	2 28	1 56	3 35	10 44	1 0		
S 25	18 55	27 12	5 1	13 24	2 25	21 45	1 40	13 0	1 34	21 6	0 21	18 47	0 53	23 40	0 11	22 1	1 17	12 52	9 31	2 30	1 58	3 38	10 44	1 0		
S 26	18 40	28 31	5 8	13 20	2 41	21 50	1 37	13 9	1 34	21 4	0 22	18 48	0 53	23 40	0 11	22 1	1 17	12 52	9 31	2 33	1 59	3 42	10 45	1 0		
M27	18 24	28 12	4 58	13 20	2 56	21 55	1 34	13 19	1 34	21 1	0 22	18 50	0 53	23 40	0 11	22 1	1 17	12 52	9 31	2 36	2 0	3 45	10 45	1 0		
T 28	18 9	26 8	4 31	13 24	3 9	21 59	1 31	13 28	1 34	20 58	0 22	18 51	0 53	23 40	0 12	22 1	1 17	12 52	9 31	2 39	2 1	3 49	10 45	0 59		
W29	17 53	22 24	3 46	13 32	3 20	22 2	1 27	13 37	1 34	20 55	0 22	18 52	0 53	23 41	0 12	22 1	1 17	12 52	9 30	2 42	2 3	3 52	10 45	0 59		
T 30	17 36	17 14	2 46	13 43	3 29	22 4	1 24	13 47	1 33	20 53	0 22	18 54	0 54	23 41	0 12	22 1	1 17	12 52	9 30	2 44	2 4	3 56	10 46	0 59		
F 31	17s19	11s 3	1s35	13s56	3n35	22s 6	1n21	13s56	1n33	20s50	0s22	18n55	0n54	23s41	0s12	22s 1	1n17	12n53	9s30	2s45	2s 5	3s59	10s46	0s59		

ASTRODIENST EPHEMERIS for the year 1653

geocentric

FEBRUARY 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 46 13	12°40'22	19°59	10°R13	4°310	12°M17	28°353	8°R52	29°13	22°58	12°R10	23°D 3	24°43	7°31	25°26	S 1
S 2	8 50 9	13°41'10	4°33	9°2	5°23	12°46	29° 7	8°47	29°15	22°59	12°II10	23°3	24°39	7°38	25°27	S 2
M 3	8 54 6	14°41'57	18°59	7°53	6°35	13°14	29°20	8°42	29°18	23° 1	12° 9	23° 4	24°36	7°44	25°27	M 3
T 4	8 58 2	15°42'42	3°14	6°49	7°47	13°42	29°34	8°37	29°21	23° 2	12° 9	23° 6	24°33	7°51	25°28	T 4
W 5	9 1 59	16°43'26	17°15	5°51	9° 0	14°10	29°48	8°32	29°24	23° 4	12° 8	23°R 6	24°30	7°58	25°28	W 5
T 6	9 5 55	17°44'08	1°11	5° 0	10°13	14°38	0°2	8°28	29°27	23° 5	12° 8	23° 5	24°27	8° 4	25°28	T 6
F 7	9 9 52	18°44'48	14°34	4°16	11°25	15° 6	0°16	8°23	29°29	23° 7	12° 7	23° 3	24°24	8°11	25°R28	F 7
S 8	9 13 49	19°45'27	27°53	3°39	12°38	15°33	0°30	8°18	29°32	23° 8	12° 7	22°59	24°20	8°18	25°28	S 8
S 9	9 17 45	20°46'04	10°59	3°11	13°50	16° 0	0°44	8°13	29°34	23°10	12° 7	22°54	24°17	8°24	25°28	S 9
M10	9 21 42	21°46'39	23°51	2°50	15° 3	16°27	0°57	8° 9	29°37	23°11	12° 6	22°48	24°14	8°31	25°28	M10
T 11	9 25 38	22°47'13	6°31	2°38	16°16	16°54	1°11	8° 4	29°40	23°12	12° 6	22°43	24°11	8°38	25°27	T 11
W12	9 29 35	23°47'45	18°59	2°D32	17°29	17°21	1°25	7°59	29°42	23°14	12° 6	22°39	24° 8	8°44	25°27	W12
T 13	9 33 31	24°48'15	1°15	2°34	18°41	17°47	1°38	7°55	29°44	23°15	12° 6	22°35	24° 4	8°51	25°26	T 13
F 14	9 37 28	25°48'44	13°20	2°43	19°54	18°13	1°52	7°50	29°47	23°16	12° 5	22°34	24° 1	8°58	25°25	F 14
S 15	9 41 24	26°49'11	25°17	2°57	21° 7	18°39	2° 5	7°46	29°49	23°18	12° 5	22°D33	23°58	9° 4	25°25	S 15
S 16	9 45 21	27°49'37	7°8	3°18	22°20	19° 5	2°19	7°41	29°52	23°19	12° 5	22°34	23°55	9°11	25°24	S 16
M17	9 49 18	28°50'01	18°56	3°44	23°33	19°30	2°32	7°37	29°54	23°20	12° 5	22°36	23°52	9°18	25°23	M17
T 18	9 53 14	29°50'23	0°M44	4°15	24°46	19°56	2°46	7°32	29°56	23°21	12° 5	22°37	23°49	9°24	25°21	T 18
W19	9 57 11	0°50'45	12°38	4°51	25°59	20°20	2°59	7°28	29°58	23°22	12° 5	22°39	23°45	9°31	25°20	W19
T 20	10 1 7	1°51'05	24°41	5°31	27°12	20°45	3°12	7°24	0°3	23°24	12° 4	22°40	23°42	9°37	25°19	T 20
F 21	10 5 4	2°51'23	6°59	6°15	28°25	21°10	3°26	7°20	0° 3	23°25	12° 4	22°R40	23°39	9°44	25°17	F 21
S 22	10 9 0	3°51'40	19°36	7° 2	29°38	21°34	3°39	7°15	0° 5	23°26	12° 4	22°39	23°36	9°51	25°15	S 22
S 23	10 12 57	4°51'56	2°36	7°53	0°51	21°58	3°52	7°11	0° 7	23°27	12° 4	22°38	23°33	9°57	25°14	S 23
M24	10 16 53	5°52'10	16° 2	8°48	2° 4	22°21	4° 5	7° 7	0° 9	23°28	12°D 4	22°36	23°29	10° 4	25°12	M24
T 25	10 20 50	6°52'22	29°55	9°45	3°17	22°44	4°18	7° 3	0°11	23°29	12° 4	22°33	23°26	10°11	25°10	T 25
W26	10 24 47	7°52'33	14°13	10°45	4°30	23° 7	4°31	7° 0	0°13	23°30	12° 4	22°31	23°23	10°17	25° 8	W26
T 27	10 28 43	8°52'42	28°53	11°48	5°43	23°30	4°44	6°56	0°14	23°31	12° 4	22°30	23°20	10°24	25° 6	T 27
F 28	10 32 40	9°52'49	13°48	12°53	6°57	23°M52	4°57	6°52	0°16	23°31	12°II 4	22°29	23°17	10°31	25° 3	F 28

Day	☉	☾		♀		♀		♂		♂		♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17s 2	4s14	0s17	14s11	3n40	22s 8	1n18	14s 4	1n33	20s47	0s22	18n57	0n54	23s41	0s12	22s 1	1n17	12n53	9s30	2s46	2s 6	4s 2	10s46	0s59			
S 2	16 45	2n46	1n 2	14 28	3 41	22 8	1 15	14 13	1 33	20 44	0 22	18 58	0 54	23 41	0 12	22 1	1 17	12 53	9 30	2 46	2 8	4 6	10 46	0 58			
M 3	16 27	9 33	2 17	14 46	3 41	22 8	1 11	14 22	1 33	20 42	0 22	18 59	0 54	23 41	0 12	22 1	1 17	12 53	9 29	2 45	2 9	4 9	10 46	0 58			
T 4	16 9	15 46	3 21	15 5	3 38	22 8	1 8	14 30	1 33	20 39	0 22	19 1	0 54	23 41	0 12	22 2	1 17	12 53	9 29	2 45	2 10	4 13	10 46	0 58			
W 5	15 51	21 3	4 13	15 24	3 33	22 6	1 5	14 39	1 33	20 36	0 23	19 2	0 54	23 41	0 12	22 2	1 17	12 53	9 29	2 45	2 11	4 16	10 46	0 58			
T 6	15 33	25 7	4 49	15 43	3 27	22 4	1 1	14 47	1 32	20 33	0 23	19 3	0 54	23 41	0 12	22 2	1 17	12 54	9 29	2 45	2 13	4 19	10 46	0 57			
F 7	15 14	27 42	5 8	16 1	3 19	22 2	0 58	14 56	1 32	20 30	0 23	19 5	0 54	23 41	0 12	22 2	1 17	12 54	9 28	2 46	2 14	4 23	10 45	0 57			
S 8	14 55	28 39	5 11	16 18	3 9	21 59	0 55	15 4	1 32	20 27	0 23	19 6	0 54	23 41	0 12	22 2	1 17	12 54	9 28	2 47	2 15	4 26	10 45	0 57			
S 9	14 36	27 57	4 57	16 35	2 59	21 55	0 51	15 12	1 32	20 25	0 23	19 7	0 54	23 41	0 12	22 2	1 17	12 54	9 28	2 49	2 16	4 30	10 45	0 57			
M10	14 17	25 46	4 28	16 50	2 48	21 51	0 48	15 20	1 32	20 22	0 23	19 9	0 55	23 41	0 12	22 2	1 17	12 54	9 28	2 52	2 18	4 33	10 44	0 56			
T 11	13 57	22 19	3 46	17 5	2 36	21 45	0 45	15 27	1 31	20 19	0 23	19 10	0 55	23 41	0 12	22 2	1 17	12 55	9 27	2 54	2 19	4 37	10 44	0 56			
W12	13 37	17 55	2 54	17 18	2 24	21 40	0 41	15 35	1 31	20 16	0 23	19 11	0 55	23 41	0 12	22 2	1 17	12 55	9 27	2 56	2 20	4 40	10 44	0 56			
T 13	13 17	12 50	1 54	17 30	2 11	21 33	0 38	15 43	1 31	20 13	0 24	19 12	0 55	23 41	0 12	22 2	1 17	12 55	9 27	2 57	2 21	4 43	10 43	0 56			
F 14	12 56	7 20	0 50	17 40	1 59	21 26	0 34	15 50	1 31	20 10	0 24	19 14	0 55	23 41	0 12	22 2	1 17	12 55	9 27	2 57	2 23	4 47	10 43	0 55			
S 15	12 36	1 39	0s15	17 49	1 46	21 19	0 31	15 58	1 30	20 7	0 24	19 15	0 55	23 41	0 12	22 2	1 17	12 55	9 26	2 58	2 24	4 50	10 42	0 55			
S 16	12 15	4s 3	1 19	17 57	1 33	21 11	0 28	16 5	1 30	20 4	0 24	19 16	0 55	23 41	0 12	22 2	1 17	12 56	9 26	2 57	2 25	4 54	10 42	0 55			
M17	11 54	9 35	2 20	18 3	1 21	21 2	0 24	16 12	1 30	20 1	0 24	19 17	0 55	23 41	0 12	22 2	1 17	12 56	9 26	2 57	2 27	4 57	10 41	0 55			
T 18	11 33	14 48	3 15	18 7	1 9	20 52	0 21	16 19	1 29	19 58	0 24	19 19	0 55	23 41	0 12	22 2	1 17	12 56	9 26	2 56	2 28	5 0	10 40	0 54			
W19	11 12	19 30	4 2	18 11	0 56	20 42	0 18	16 26	1 29	19 55	0 24	19 20	0 55	23 41	0 12	22 2	1 17	12 56	9 25	2 55	2 29	5 4	10 39	0 54			
T 20	10 50	23 29	4 39	18 13	0 45	20 31	0 15	16 33	1 29	19 52	0 24	19 21	0 55	23 41	0 12	22 2	1 17	12 57	9 25	2 55	2 30	5 7	10 39	0 54			
F 21	10 29	26 31	5 4	18 13	0 33	20 20	0 11	16 40	1 28	19 49	0 24	19 22	0 55	23 41	0 12	22 2	1 17	12 57	9 25	2 55	2 32	5 11	10 38	0 54			
S 22	10 7	28 19	5 16	18 12	0 22	20 8	0 8	16 46	1 28	19 46	0 25	19 23	0 55	23 41	0 12	22 2	1 17	12 57	9 25	2 55	2 33	5 14	10 37	0 53			
S 23	9 45	28 39	5 11	18 10	0 11	19 56	0 5	16 53	1 28	19 43	0 25	19 24	0 55	23 41	0 12	22 2	1 17	12 57	9 24	2 56	2 34	5 17	10 36	0 53			
M24	9 23	27 19	4 50	18 6	0 0	19 43	0 2	16 59	1 27	19 41	0 25	19 25	0 55	23 41	0 12	22 2	1 17	12 57	9 24	2 57	2 35	5 21	10 35	0 53			
T 25	9 0	24 18	4 12	18 0	0s10	19 29	0s 1	17 6	1 27	19 38	0 25	19 26	0 55	23 41	0 12	22 2	1 17	12 58	9 24	2 58	2 37	5 24	10 34	0 52			
W26	8 38	19 44	3 16	17 54	0 20	19 15	0 5	17 12	1 26	19 35	0 25	19 27	0 55	23 41	0 12	22 2	1 17	12 58	9 24	2 58	2 38	5 28	10 33	0 52			
T 27	8 15	13 52	2 7	17 46	0 30	19 0	0 8	17 18	1 26	19 32	0 25	19 28	0 56	23 41	0 12	22 2	1 18	12 58	9 23	2 59	2 39	5 31	10 32	0 52			
F 28	7s53	7s 7	0s48	17s36	0s39	18s45	0s11	17s24	1n26	19s29	0s25	19n29	0n56	23s41	0s12	22s 2	1n18	12n58	9s23	2s59	2s40	5s34	10s31	0s52			

Julian Day Number = 2324837.5, Delta T = 41.16 sec

Ecliptic obliquity = 23°29'13, Nutation = 0°00'03, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°53'53, Lahiri = 19°00'54Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1653
geocentric

MARCH 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 36 36	10 ^h 52 ^m 54 ^s	28 ^h 49 ^m	14 ^h 00 ^m	8 ^h 10 ^m	24 ^h 14 ^m	5 ^h 10 ^m	6 ^h 48 ^m	0 ^h 18 ^m	23 ^h 32 ^m	12 ^h 11 ^m	22 ^h 02 ^m	23 ^h 14 ^m	10 ^h 37 ^m	25 ^h 01 ^m	S 1
S 2	10 40 33	11 ^h 52 ^m 57 ^s	13 ^h 49 ^m	15 ^h 10 ^m	9 ^h 23 ^m	24 ^h 36 ^m	5 ^h 23 ^m	6 ^h 45 ^m	0 ^h 20 ^m	23 ^h 33 ^m	12 ^h 05 ^m	22 ^h 30 ^m	23 ^h 10 ^m	10 ^h 44 ^m	24 ^h 58 ^m	S 2
M 3	10 44 29	12 ^h 52 ^m 58 ^s	28 ^h 39 ^m	16 ^h 21 ^m	10 ^h 36 ^m	24 ^h 57 ^m	5 ^h 36 ^m	6 ^h 41 ^m	0 ^h 21 ^m	23 ^h 34 ^m	12 ^h 05 ^m	22 ^h 30 ^m	23 ^h 07 ^m	10 ^h 51 ^m	24 ^h 56 ^m	M 3
T 4	10 48 26	13 ^h 52 ^m 57 ^s	13 ^h 14 ^m	17 ^h 35 ^m	11 ^h 49 ^m	25 ^h 18 ^m	5 ^h 48 ^m	6 ^h 38 ^m	0 ^h 23 ^m	23 ^h 35 ^m	12 ^h 05 ^m	22 ^h 31 ^m	23 ^h 04 ^m	10 ^h 57 ^m	24 ^h 53 ^m	T 4
W 5	10 52 22	14 ^h 52 ^m 54 ^s	27 ^h 28 ^m	18 ^h 50 ^m	13 ^h 03 ^m	25 ^h 39 ^m	6 ^h 01 ^m	6 ^h 35 ^m	0 ^h 25 ^m	23 ^h 35 ^m	12 ^h 05 ^m	22 ^h 32 ^m	23 ^h 01 ^m	11 ^h 04 ^m	24 ^h 50 ^m	W 5
T 6	10 56 19	15 ^h 52 ^m 48 ^s	11 ^h 11 ^m	20 ^h 07 ^m	14 ^h 16 ^m	25 ^h 59 ^m	6 ^h 13 ^m	6 ^h 31 ^m	0 ^h 26 ^m	23 ^h 36 ^m	12 ^h 05 ^m	22 ^h 32 ^m	22 ^h 58 ^m	11 ^h 11 ^m	24 ^h 47 ^m	T 6
F 7	11 00 16	16 ^h 52 ^m 41 ^s	24 ^h 51 ^m	21 ^h 25 ^m	15 ^h 29 ^m	26 ^h 19 ^m	6 ^h 26 ^m	6 ^h 28 ^m	0 ^h 28 ^m	23 ^h 37 ^m	12 ^h 06 ^m	22 ^h 32 ^m	22 ^h 55 ^m	11 ^h 17 ^m	24 ^h 44 ^m	F 7
S 8	11 04 12	17 ^h 52 ^m 31 ^s	8 ^h 00 ^m	22 ^h 46 ^m	16 ^h 42 ^m	26 ^h 39 ^m	6 ^h 38 ^m	6 ^h 25 ^m	0 ^h 29 ^m	23 ^h 37 ^m	12 ^h 06 ^m	22 ^h 32 ^m	22 ^h 51 ^m	11 ^h 24 ^m	24 ^h 41 ^m	S 8
S 9	11 08 09	18 ^h 52 ^m 18 ^s	20 ^h 52 ^m	24 ^h 08 ^m	17 ^h 56 ^m	26 ^h 58 ^m	6 ^h 51 ^m	6 ^h 22 ^m	0 ^h 30 ^m	23 ^h 38 ^m	12 ^h 06 ^m	22 ^h 31 ^m	22 ^h 48 ^m	11 ^h 31 ^m	24 ^h 38 ^m	S 9
M10	11 12 05	19 ^h 52 ^m 04 ^s	3 ^h 02 ^m	25 ^h 31 ^m	19 ^h 09 ^m	27 ^h 16 ^m	7 ^h 03 ^m	6 ^h 19 ^m	0 ^h 32 ^m	23 ^h 38 ^m	12 ^h 06 ^m	22 ^h 31 ^m	22 ^h 45 ^m	11 ^h 37 ^m	24 ^h 35 ^m	M10
T 11	11 16 02	20 ^h 51 ^m 47 ^s	15 ^h 50 ^m	26 ^h 56 ^m	20 ^h 22 ^m	27 ^h 35 ^m	7 ^h 15 ^m	6 ^h 16 ^m	0 ^h 33 ^m	23 ^h 39 ^m	12 ^h 07 ^m	22 ^h 31 ^m	22 ^h 42 ^m	11 ^h 44 ^m	24 ^h 32 ^m	T 11
W12	11 19 58	21 ^h 51 ^m 28 ^s	28 ^h 01 ^m	28 ^h 22 ^m	21 ^h 36 ^m	27 ^h 53 ^m	7 ^h 27 ^m	6 ^h 14 ^m	0 ^h 34 ^m	23 ^h 39 ^m	12 ^h 07 ^m	22 ^h 31 ^m	22 ^h 39 ^m	11 ^h 51 ^m	24 ^h 28 ^m	W12
T 13	11 23 55	22 ^h 51 ^m 07 ^s	10 ^h 10 ^m	29 ^h 50 ^m	22 ^h 49 ^m	28 ^h 10 ^m	7 ^h 39 ^m	6 ^h 11 ^m	0 ^h 35 ^m	23 ^h 40 ^m	12 ^h 07 ^m	22 ^h 31 ^m	22 ^h 35 ^m	11 ^h 57 ^m	24 ^h 25 ^m	T 13
F 14	11 27 51	23 ^h 50 ^m 44 ^s	21 ^h 59 ^m	1 ^h 19 ^m	24 ^h 02 ^m	28 ^h 27 ^m	7 ^h 51 ^m	6 ^h 09 ^m	0 ^h 37 ^m	23 ^h 40 ^m	12 ^h 08 ^m	22 ^h 31 ^m	22 ^h 32 ^m	12 ^h 04 ^m	24 ^h 21 ^m	F 14
S 15	11 31 48	24 ^h 50 ^m 19 ^s	3 ^h 51 ^m	2 ^h 49 ^m	25 ^h 16 ^m	28 ^h 44 ^m	8 ^h 03 ^m	6 ^h 06 ^m	0 ^h 38 ^m	23 ^h 40 ^m	12 ^h 08 ^m	22 ^h 31 ^m	22 ^h 29 ^m	12 ^h 10 ^m	24 ^h 18 ^m	S 15
S 16	11 35 44	25 ^h 49 ^m 51 ^s	15 ^h 39 ^m	4 ^h 21 ^m	26 ^h 29 ^m	29 ^h 00 ^m	8 ^h 15 ^m	6 ^h 04 ^m	0 ^h 39 ^m	23 ^h 41 ^m	12 ^h 09 ^m	22 ^h 30 ^m	22 ^h 26 ^m	12 ^h 17 ^m	24 ^h 14 ^m	S 16
M17	11 39 41	26 ^h 49 ^m 22 ^s	27 ^h 28 ^m	5 ^h 54 ^m	27 ^h 42 ^m	29 ^h 16 ^m	8 ^h 26 ^m	6 ^h 02 ^m	0 ^h 40 ^m	23 ^h 41 ^m	12 ^h 09 ^m	22 ^h 30 ^m	22 ^h 23 ^m	12 ^h 24 ^m	24 ^h 10 ^m	M17
T 18	11 43 38	27 ^h 48 ^m 51 ^s	9 ^h 19 ^m	7 ^h 29 ^m	28 ^h 56 ^m	29 ^h 31 ^m	8 ^h 38 ^m	6 ^h 00 ^m	0 ^h 41 ^m	23 ^h 41 ^m	12 ^h 10 ^m	22 ^h 29 ^m	22 ^h 20 ^m	12 ^h 30 ^m	24 ^h 06 ^m	T 18
W19	11 47 34	28 ^h 48 ^m 18 ^s	21 ^h 15 ^m	9 ^h 05 ^m	0 ^h 19 ^m	29 ^h 46 ^m	8 ^h 50 ^m	5 ^h 58 ^m	0 ^h 41 ^m	23 ^h 42 ^m	12 ^h 10 ^m	22 ^h 28 ^m	22 ^h 16 ^m	12 ^h 37 ^m	24 ^h 02 ^m	W19
T 20	11 51 31	29 ^h 47 ^m 43 ^s	3 ^h 12 ^m	10 ^h 42 ^m	1 ^h 23 ^m	0 ^h 19 ^m	9 ^h 01 ^m	5 ^h 56 ^m	0 ^h 42 ^m	23 ^h 42 ^m	12 ^h 11 ^m	22 ^h 28 ^m	22 ^h 13 ^m	12 ^h 44 ^m	23 ^h 58 ^m	T 20
F 21	11 55 27	0 ^h 47 ^m 07 ^s	15 ^h 38 ^m	12 ^h 20 ^m	2 ^h 36 ^m	0 ^h 14 ^m	9 ^h 12 ^m	5 ^h 54 ^m	0 ^h 43 ^m	23 ^h 42 ^m	12 ^h 11 ^m	22 ^h 27 ^m	22 ^h 10 ^m	12 ^h 50 ^m	23 ^h 54 ^m	F 21
S 22	11 59 24	1 ^h 46 ^m 29 ^s	28 ^h 12 ^m	14 ^h 00 ^m	3 ^h 49 ^m	0 ^h 28 ^m	9 ^h 24 ^m	5 ^h 52 ^m	0 ^h 44 ^m	23 ^h 42 ^m	12 ^h 12 ^m	22 ^h 27 ^m	22 ^h 07 ^m	12 ^h 57 ^m	23 ^h 50 ^m	S 22
S 23	12 03 20	2 ^h 45 ^m 49 ^s	11 ^h 06 ^m	15 ^h 41 ^m	5 ^h 03 ^m	0 ^h 40 ^m	9 ^h 35 ^m	5 ^h 51 ^m	0 ^h 44 ^m	23 ^h 42 ^m	12 ^h 12 ^m	22 ^h 27 ^m	22 ^h 04 ^m	13 ^h 04 ^m	23 ^h 46 ^m	S 23
M24	12 07 17	3 ^h 45 ^m 07 ^s	24 ^h 24 ^m	17 ^h 24 ^m	6 ^h 16 ^m	0 ^h 53 ^m	9 ^h 46 ^m	5 ^h 49 ^m	0 ^h 45 ^m	23 ^h 42 ^m	12 ^h 13 ^m	22 ^h 27 ^m	22 ^h 01 ^m	13 ^h 10 ^m	23 ^h 42 ^m	M24
T 25	12 11 13	4 ^h 44 ^m 23 ^s	8 ^h 19 ^m	19 ^h 08 ^m	7 ^h 30 ^m	1 ^h 04 ^m	9 ^h 57 ^m	5 ^h 48 ^m	0 ^h 46 ^m	23 ^h 42 ^m	12 ^h 13 ^m	22 ^h 28 ^m	21 ^h 57 ^m	13 ^h 17 ^m	23 ^h 38 ^m	T 25
W26	12 15 10	5 ^h 43 ^m 37 ^s	22 ^h 19 ^m	20 ^h 53 ^m	8 ^h 43 ^m	1 ^h 15 ^m	10 ^h 08 ^m	5 ^h 46 ^m	0 ^h 46 ^m	23 ^h 42 ^m	12 ^h 14 ^m	22 ^h 29 ^m	21 ^h 54 ^m	13 ^h 24 ^m	23 ^h 33 ^m	W26
T 27	12 19 07	6 ^h 42 ^m 50 ^s	6 ^h 15 ^m	22 ^h 40 ^m	9 ^h 57 ^m	1 ^h 26 ^m	10 ^h 18 ^m	5 ^h 45 ^m	0 ^h 47 ^m	23 ^h 42 ^m	12 ^h 15 ^m	22 ^h 30 ^m	21 ^h 51 ^m	13 ^h 30 ^m	23 ^h 29 ^m	T 27
F 28	12 23 03	7 ^h 42 ^m 01 ^s	21 ^h 50 ^m	24 ^h 28 ^m	11 ^h 10 ^m	1 ^h 36 ^m	10 ^h 29 ^m	5 ^h 44 ^m	0 ^h 47 ^m	23 ^h 42 ^m	12 ^h 15 ^m	22 ^h 30 ^m	21 ^h 48 ^m	13 ^h 37 ^m	23 ^h 25 ^m	F 28
S 29	12 27 00	8 ^h 41 ^m 09 ^s	6 ^h 15 ^m	26 ^h 18 ^m	12 ^h 23 ^m	1 ^h 45 ^m	10 ^h 40 ^m	5 ^h 43 ^m	0 ^h 47 ^m	23 ^h 42 ^m	12 ^h 16 ^m	22 ^h 30 ^m	21 ^h 45 ^m	13 ^h 44 ^m	23 ^h 20 ^m	S 29
S 30	12 30 56	9 ^h 40 ^m 16 ^s	22 ^h 13 ^m	28 ^h 08 ^m	13 ^h 37 ^m	1 ^h 54 ^m	10 ^h 50 ^m	5 ^h 42 ^m	0 ^h 48 ^m	23 ^h 42 ^m	12 ^h 17 ^m	22 ^h 29 ^m	21 ^h 41 ^m	13 ^h 50 ^m	23 ^h 16 ^m	S 30
M31	12 34 53	10 ^h 39 ^m 20 ^s	7 ^h 02 ^m	0 ^h 19 ^m	14 ^h 15 ^m	2 ^h 19 ^m	11 ^h 11 ^m	5 ^h 41 ^m	0 ^h 48 ^m	23 ^h 42 ^m	12 ^h 18 ^m	22 ^h 27 ^m	21 ^h 38 ^m	13 ^h 57 ^m	23 ^h 11 ^m	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7s30	0n 4	0n35	17s25	0s48	18s29	0s14	17s30	1n25	19s26	0s26	19n30	0n56	23s41	0s12	22s 2	1n18	12n59	9s23	2s59	2s42	5s38	10s30	0s51			
S 2	7 7	7 14	1 56	17 13	0 56	18 13	0 17	17 35	1 25	19 23	0 26	19 31	0 56	23 41	0 12	22 2	1 18	12 59	9 23	2 59	2 43	5 41	10 29	0 51			
M 3	6 44	13 56	3 8	16 59	1 4	17 56	0 20	17 41	1 24	19 20	0 26	19 32	0 56	23 41	0 12	22 2	1 18	12 59	9 22	2 59	2 44	5 45	10 27	0 51			
T 4	6 21	19 45	4 6	16 44	1 12	17 38	0 23	17 47	1 23	19 17	0 26	19 33	0 56	23 41	0 12	22 2	1 18	13 0	9 22	2 58	2 45	5 48	10 26	0 50			
W 5	5 58	24 18	4 48	16 28	1 19	17 20	0 25	17 52	1 23	19 14	0 26	19 34	0 56	23 41	0 12	22 2	1 18	13 0	9 22	2 58	2 47	5 51	10 25	0 50			
T 6	5 35	27 19	5 12	16 10	1 26	17 2	0 28	17 57	1 22	19 11	0 26	19 35	0 56	23 41	0 12	22 2	1 18	13 0	9 22	2 58	2 48	5 55	10 24	0 50			
F 7	5 11	28 40	5 17	15 51	1 32	16 43	0 31	18 3	1 22	19 8	0 26	19 36	0 56	23 41	0 12	22 2	1 18	13 0	9 22	2 58	2 49	5 58	10 22	0 50			
S 8	4 48	28 20	5 6	15 30	1 39	16 24	0 34	18 8	1 21	19 5	0 27	19 36	0 56	23 41	0 12	22 2	1 18	13 1	9 21	2 58	2 50	6 2	10 21	0 49			
S 9	4 25	26 28	4 40	15 9	1 44	16 4	0 36	18 13	1 20	19 2	0 27	19 37	0 56	23 41	0 12	22 2	1 18	13 1	9 21	2 58	2 52	6 5	10 19	0 49			
M10	4 1	23 19	4 0	14 45	1 49	15 44	0 39	18 18	1 20	18 59	0 27	19 38	0 56	23 41	0 12	22 2	1 18	13 1	9 21	2 59	2 53	6 8	10 18	0 49			
T11	3 38	19 9	3 10	14 21	1 54	15 23	0 42	18 23	1 19	18 56	0 27	19 39	0 56	23 41	0 12	22 2	1 18	13 1	9 21	2 59	2 54	6 12	10 16	0 48			
W12	3 14	14 15	2 12	13 55	1 59	15 2	0 44	18 27	1 18	18 53	0 27	19 39	0 56	23 41	0 12	22 2	1 18	13 2	9 20	2 59	2 55	6 15	10 15	0 48			
T13	2 51	8 52	1 9	13 28	2 3	14 40	0 47	18 32	1 18	18 50	0 27	19 40	0 56	23 41	0 12	22 2	1 18	13 2	9 20	2 59	2 57	6 18	10 13	0 48			
F14	2 27	3 14	0 3	13 0	2 6	14 18	0 49	18 36	1 17	18 47	0 27	19 41	0 56	23 41	0 12	22 2	1 18	13 2	9 20	2 59	2 58	6 22	10 12	0 47			
S15	2 3	2s29	1s 3	12 30	2 9	13 56	0 52	18 41	1 16	18 44	0 28	19 41	0 56	23 41	0 12	22 2	1 18	13 3	9 20	2 59	2 59	6 25	10 10	0 47			
S16	1 40	8 6	2 5	11 59	2 12	13 33	0 54	18 45	1 15	18 41	0 28	19 42	0 56	23 41	0 12	22 2	1 18	13 3	9 19	2 59	3 1	6 29	10 8	0 47			
M17	1 16	13 25	3 2	11 27	2 14	13 10	0 56	18 49	1 14	18 38	0 28	19 42	0 56	23 41	0 12	22 2	1 18	13 3	9 19	2 59	3 2	6 32	10 7	0 46			
T18	0 52	18 17	3 52	10 53	2 16	12 47	0 58	18 54	1 13	18 35	0 28	19 43	0 56	23 41	0 12	22 2	1 18	13 3	9 19	2 59	3 3	6 35	10 5	0 46			
W19	0 29	22 28	4 32	10 18	2 18	12 23	1 0	18 58	1 13	18 32	0 28	19 43	0 56	23 42	0 12	22 2	1 18	13 4	9 19	3 0	3 4	6 39	10 3	0 46			
T20	0 5	25 46	5 0	9 42	2 19	11 59	1 3	19 2	1 12	18 30	0 28	19 44	0 56	23 42	0 12	22 2	1 18	13 4	9 18	3 0	3 6	6 42	10 1	0 45			
F21	0n19	27 56	5 15	9 5	2 19	11 34	1 5	19 5	1 11	18 27	0 28	19 44	0 56	23 42	0 12	22 2	1 18	13 4	9 18	3 0	3 7	6 45	10 0	0 45			
S22	0 42	28 44	5 16	8 27	2 19	11 10	1 7	19 9	1 10	18 24	0 29	19 45	0 56	23 42	0 12	22 2	1 18	13 5	9 18	3 0	3 8	6 49	9 58	0 45			
S23	1 6	28 1	5 1	7 47	2 19	10 44	1 8	19 13	1 9	18 21	0 29	19 45	0 56	23 42	0 12	22 2	1 18	13 5	9 18	3 0	3 9	6 52	9 56	0 44			
M24	1 30	25 42	4 29	7 6	2 18	10 19	1 10	19 16	1 8	18 18	0 29	19 46	0 56	23 42	0 12	22 2	1 18	13 5	9 17	3 0	3 11	6 56	9 54	0 44			
T25	1 53	21 50	3 42	6 24	2 16	9 53	1 12	19 20	1 6	18 15	0 29	19 46	0 56	23 42	0 13	22 2	1 18	13 6	9 17	3 0	3 12	6 59	9 52	0 44			
W26	2 17	16 37	2 40	5 41	2 14	9 27	1 14	19 23	1 5	18 13	0 29	19 46	0 56	23 42	0 13	22 2	1 18	13 6	9 17	2 59	3 13	7 2	9 50	0 43			
T27	2 40	10 19	1 25	4 56	2 12	9 1	1 15	19 27	1 4	18 10	0 29	19 47	0 56	23 42	0 13	22 2	1 19	13 6	9 17	2 59	3 14	7 6	9 48	0 43			
F28	3 4	3 18	0 4	4 11	2 9	8 35	1 17	19 30	1 3	18 7	0 30	19 47	0 56	23 42	0 13	22 2	1 19	13 7	9 17	2 59	3 16	7 9	9 46	0 43			
S29	3 27	4n 0	1n19	3 24	2 6	8 8	1 18	19 33	1 2	18 4	0 30	19 47	0 56	23 42	0 13	22 2	1 19	13 7	9 16	2 59	3 17	7 12	9 44	0 42			
S30	3 50	11 6	2 37	2 36	2 2	7 41	1 20	19 36	1 0	18 2	0 30	19 47	0 56	23 42	0 13	22 2	1 19	13 7	9 16	2 59	3 18	7 16	9 42	0 42			
M31	4n14	17n30	3n43	1s47	1s57	7s14	1s21	19s39	0n59	17s59	0s30	19n47	0n56	23s42	0s13	22s 2	1n19	13n 7	9s16	3s 0	3s19	7s19	9s40	0s42			

ASTRODIENST EPHEMERIS for the year 1653
geocentric

APRIL 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 38 49	11°38'23	22°13	1°55	16°4	2°10	11°11	5°R41	0°348	23°R42	12°118	22°R24	21°35	14°4	23°R 7	T 1
W 2	12 42 46	12°37'23	6°1144	3°50	17°17	2°16	11°21	5°40	0°48	23°41	12°19	22°22	21°32	14°10	23°2	W 2
T 3	12 46 42	13°36'21	20°49	5°46	18°31	2°23	11°31	5°40	0°48	23°41	12°20	22°20	21°29	14°17	22°57	T 3
F 4	12 50 39	14°35'16	4°26	7°44	19°44	2°28	11°41	5°40	0°R48	23°41	12°21	22°18	21°26	14°24	22°53	F 4
S 5	12 54 36	15°34'10	17°37	9°44	20°58	2°33	11°51	5°39	0°48	23°41	12°21	22°D18	21°22	14°30	22°48	S 5
S 6	12 58 32	16°33'00	0°25	11°44	22°11	2°37	12° 1	5°D39	0°48	23°40	12°22	22°19	21°19	14°37	22°44	S 6
M 7	13 2 29	17°31'49	12°53	13°46	23°25	2°41	12°10	5°39	0°48	23°40	12°23	22°20	21°16	14°44	22°39	M 7
T 8	13 6 25	18°30'35	25° 6	15°49	24°38	2°44	12°20	5°39	0°48	23°39	12°24	22°22	21°13	14°50	22°34	T 8
W 9	13 10 22	19°29'19	7°7	17°54	25°51	2°46	12°29	5°40	0°48	23°39	12°25	22°23	21°10	14°57	22°29	W 9
T 10	13 14 18	20°28'01	19° 1	19°59	27° 5	2°47	12°38	5°40	0°48	23°38	12°26	22°R24	21° 7	15° 3	22°25	T 10
F 11	13 18 15	21°26'41	0°50	22° 5	28°18	2°R48	12°47	5°40	0°47	23°38	12°27	22°24	21° 3	15°10	22°20	F 11
S 12	13 22 11	22°25'18	12°38	24°11	29°32	2°48	12°56	5°41	0°47	23°37	12°28	22°22	21° 0	15°17	22°15	S 12
S 13	13 26 8	23°23'54	24°27	26°19	0°45	2°47	13° 5	5°42	0°46	23°37	12°29	22°19	20°57	15°23	22°11	S 13
M14	13 30 5	24°22'27	6°119	28°26	1°59	2°46	13°14	5°42	0°46	23°36	12°30	22°14	20°54	15°30	22° 6	M14
T 15	13 34 1	25°20'59	18°16	0°33	3°12	2°44	13°23	5°43	0°46	23°36	12°31	22° 9	20°51	15°37	22° 1	T 15
W16	13 37 58	26°19'29	0°19	2°41	4°26	2°41	13°31	5°44	0°45	23°35	12°32	22° 3	20°47	15°43	21°56	W16
T 17	13 41 54	27°17'58	12°32	4°47	5°39	2°37	13°39	5°45	0°44	23°34	12°33	21°57	20°44	15°50	21°52	T 17
F 18	13 45 51	28°16'24	24°55	6°53	6°52	2°32	13°48	5°47	0°44	23°34	12°34	21°52	20°41	15°57	21°47	F 18
S 19	13 49 47	29°14'49	7°32	8°57	8° 6	2°27	13°56	5°48	0°43	23°33	12°35	21°48	20°38	16° 3	21°42	S 19
S 20	13 53 44	0°13'13	20°25	11° 1	9°19	2°21	14° 4	5°49	0°42	23°32	12°36	21°46	20°35	16°10	21°38	S 20
M21	13 57 40	1°11'34	3°38	13° 2	10°33	2°14	14°11	5°51	0°41	23°31	12°37	21°D45	20°32	16°17	21°33	M21
T 22	14 1 37	2° 9'55	17°12	15° 1	11°46	2° 7	14°19	5°53	0°41	23°30	12°38	21°46	20°28	16°23	21°29	T 22
W23	14 5 34	3° 8'13	1°11	16°58	13° 0	1°58	14°27	5°54	0°40	23°29	12°39	21°47	20°25	16°30	21°24	W23
T 24	14 9 30	4° 6'30	15°32	18°52	14°13	1°49	14°34	5°56	0°39	23°29	12°40	21°R48	20°22	16°37	21°19	T 24
F 25	14 13 27	5° 4'46	0°16	20°43	15°27	1°39	14°41	5°58	0°38	23°28	12°41	21°48	20°19	16°43	21°15	F 25
S 26	14 17 23	6° 2'59	15°16	22°31	16°40	1°29	14°48	6° 0	0°37	23°27	12°42	21°46	20°16	16°50	21°10	S 26
S 27	14 21 20	7° 1'12	0°25	24°16	17°54	1°18	14°55	6° 2	0°36	23°26	12°44	21°42	20°12	16°57	21° 6	S 27
M28	14 25 16	7°59'22	15°34	25°57	19° 7	1° 5	15° 2	6° 4	0°35	23°25	12°45	21°37	20° 9	17° 3	21° 2	M28
T 29	14 29 13	8°57'31	0°11	27°35	20°21	0°53	15° 9	6° 7	0°33	23°24	12°46	21°29	20° 6	17°10	20°57	T 29
W30	14 33 9	9°55'38	15°11	29°8	21°34	0°39	15°15	6° 9	0°32	23°23	12°47	21°22	20°3	17°17	20°53	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	decl	lat
T 1	4n37	22n45	4n33	0s57	1s52	6s47	1s23	19s42	0n58	17s56	0s30	19n48	0n56	23s42	0s13	22s 2	1n19	13n 8	9s16	3s 1	3s21	7s22	9s38	0s41			
W 2	5 0	26 28	5 4	0 6	1 47	6 19	1 24	19 44	0 56	17 54	0 30	19 48	0 56	23 42	0 13	22 2	1 19	13 8	9 15	3 2	3 22	7 26	9 36	0 41			
T 3	5 23	28 25	5 15	0n45	1 41	5 51	1 25	19 47	0 55	17 51	0 31	19 48	0 56	23 42	0 13	22 1	1 19	13 8	9 15	3 3	3 23	7 29	9 34	0 41			
F 4	5 46	28 33	5 9	1 38	1 34	5 23	1 26	19 49	0 53	17 49	0 31	19 48	0 56	23 42	0 13	22 1	1 19	13 9	9 15	3 3	3 24	7 32	9 32	0 40			
S 5	6 8	27 2	4 45	2 31	1 27	4 55	1 27	19 52	0 52	17 46	0 31	19 48	0 56	23 42	0 13	22 1	1 19	13 9	9 15	3 4	3 26	7 36	9 30	0 40			
S 6	6 31	24 9	4 9	3 26	1 20	4 27	1 28	19 54	0 50	17 43	0 31	19 48	0 56	23 42	0 13	22 1	1 19	13 9	9 15	3 3	3 27	7 39	9 28	0 39			
M 7	6 54	20 11	3 21	4 20	1 12	3 59	1 29	19 57	0 49	17 41	0 31	19 48	0 56	23 42	0 13	22 1	1 19	13 10	9 14	3 3	3 28	7 42	9 26	0 39			
T 8	7 16	15 27	2 25	5 16	1 3	3 31	1 30	19 59	0 47	17 38	0 32	19 48	0 56	23 42	0 13	22 1	1 19	13 10	9 14	3 2	3 29	7 46	9 24	0 39			
W 9	7 38	10 12	1 23	6 12	0 55	3 2	1 30	20 1	0 45	17 36	0 32	19 48	0 56	23 42	0 13	22 1	1 19	13 10	9 14	3 2	3 31	7 49	9 22	0 38			
T 10	8 1	4 39	0 19	7 8	0 45	2 33	1 31	20 3	0 44	17 34	0 32	19 48	0 56	23 42	0 13	22 1	1 19	13 11	9 14	3 1	3 32	7 52	9 20	0 38			
F 11	8 23	1s 2	0s46	8 4	0 36	2 5	1 32	20 5	0 42	17 31	0 32	19 48	0 56	23 42	0 13	22 1	1 19	13 11	9 14	3 1	3 33	7 56	9 17	0 38			
S 12	8 45	6 40	1 49	9 0	0 26	1 36	1 32	20 7	0 40	17 29	0 32	19 48	0 56	23 42	0 13	22 1	1 19	13 11	9 13	3 2	3 34	7 59	9 15	0 37			
S 13	9 6	12 4	2 47	9 56	0 15	1 7	1 33	20 8	0 38	17 26	0 33	19 47	0 56	23 42	0 13	22 1	1 19	13 11	9 13	3 3	3 36	8 2	9 13	0 37			
M14	9 28	17 4	3 37	10 52	0 5	0 38	1 33	20 10	0 36	17 24	0 33	19 47	0 56	23 42	0 13	22 1	1 19	13 12	9 13	3 5	3 37	8 6	9 11	0 36			
T 15	9 49	21 26	4 19	11 47	0n 6	0 9	1 33	20 11	0 34	17 22	0 33	19 47	0 56	23 42	0 13	22 1	1 19	13 12	9 13	3 7	3 38	8 9	9 9	0 36			
W16	10 11	24 58	4 49	12 41	0 17	0n20	1 34	20 13	0 32	17 20	0 33	19 47	0 56	23 42	0 13	22 1	1 19	13 12	9 13	3 10	3 39	8 12	9 7	0 36			
T 17	10 32	27 25	5 7	13 35	0 28	0 49	1 34	20 14	0 30	17 17	0 33	19 46	0 56	23 42	0 13	22 1	1 19	13 13	9 12	3 12	3 41	8 16	9 5	0 35			
F 18	10 53	28 34	5 11	14 27	0 38	1 18	1 34	20 15	0 28	17 15	0 34	19 46	0 56	23 42	0 13	22 1	1 19	13 13	9 12	3 14	3 42	8 19	9 3	0 35			
S 19	11 14	28 15	5 0	15 17	0 49	1 47	1 34	20 17	0 25	17 13	0 34	19 46	0 56	23 42	0 13	22 1	1 19	13 13	9 12	3 16	3 43	8 22	9 1	0 35			
S 20	11 34	26 26	4 33	16 6	1 0	2 16	1 34	20 18	0 23	17 11	0 34	19 45	0 56	23 42	0 13	22 0	1 19	13 14	9 12	3 16	3 44	8 26	8 58	0 34			
M21	11 55	23 8	3 52	16 54	1 10	2 45	1 34	20 19	0 21	17 9	0 34	19 45	0 56	23 42	0 13	22 0	1 19	13 14	9 12	3 17	3 46	8 29	8 56	0 34			
T 22	12 15	18 31	2 57	17 39	1 20	3 14	1 34	20 19	0 19	17 7	0 34	19 45	0 56	23 42	0 13	22 0	1 19	13 14	9 12	3 16	3 47	8 32	8 54	0 33			
W23	12 35	12 47	1 50	18 22	1 30	3 43	1 33	20 20	0 16	17 5	0 35	19 44	0 56	23 42	0 13	22 0	1 19	13 15	9 11	3 16	3 48	8 35	8 52	0 33			
T 24	12 55	6 14	0 34	19 3	1 39	4 11	1 33	20 21	0 14	17 3	0 35	19 44	0 56	23 42	0 13	22 0	1 19	13 15	9 11	3 15	3 49	8 39	8 50	0 33			
F 25	13 14	0n48	0n46	19 41	1 47	4 40	1 33	20 21	0 11	17 1	0 35	19 43	0 56	23 42	0 13	22 0	1 19	13 15	9 11	3 15	3 51	8 42	8 48	0 32			
S 26	13 34	7 55	2 4	20 17	1 55	5 9	1 32	20 21	0 9	16 59	0 35	19 43	0 56	23 42	0 13	22 0	1 19	13 15	9 11	3 16	3 52	8 45	8 46	0 32			
S 27	13 53	14 39	3 13	20 51	2 2	5 37	1 32	20 22	0 6	16 57	0 35	19 42	0 56	23 42	0 13	22 0	1 20	13 16	9 11	3 18	3 53	8 49	8 44	0 31			
M28	14 12	20 31	4 10	21 22	2 9	6 6	1 31	20 22	0 3	16 55	0 36	19 42	0 56	23 42	0 13	22 0	1 20	13 16	9 11	3 20	3 54	8 52	8 42	0 31			
T 29	14 31	25 0	4 48	21 51	2 15	6 34	1 30	20 22	0 1	16 54	0 36	19 41	0 56	23 42	0 13	22 0	1 20	13 16	9 10	3 23	3 56	8 55	8 40	0 31			
W30	14n49	27n44	5n 6	22n17	2n20	7n 2	1s30	20s22	0s 2	16s52	0s36	19n40	0n56	23s42	0s13	22s 0	1n20	13n17	9s10	3s26	3s57	8s59	8s38	0s30			

ASTRODIENST EPHEMERIS for the year 1653
geocentric

MAY 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 37 6	10 ⁸ 53'44	29 ^{II} 27	0 ^{II} 39	22 ^Y 48	0°R25	15 ^æ 22	6 ^Ω 12	0°R31	23°R22	12 ^{II} 48	21°R15	20 [✕] 0	17 ^Δ 23	20°R49	T 1
F 2	14 41 3	11°51'47	13 [☾] 13	2° 5	24° 1	0 [✕] 10	15°28	6°14	0 [☾] 30	23 [✕] 21	12°50	21 [✕] 10	19°57	17°30	20 ^Δ 45	F 2
S 3	14 44 59	12°49'49	26°30	3°27	25°14	29 ^{III} 55	15°34	6°17	0°28	23°19	12°51	21° 7	19°53	17°37	20°41	S 3
S 4	14 48 56	13°47'48	9 ^Ω 20	4°46	26°28	29°39	15°40	6°20	0°27	23°18	12°52	21°D 5	19°50	17°43	20°36	S 4
M 5	14 52 52	14°45'46	21°48	6° 0	27°41	29°22	15°45	6°23	0°25	23°17	12°53	21° 6	19°47	17°50	20°32	M 5
T 6	14 56 49	15°43'41	3 ^{III} 58	7°10	28°55	29° 5	15°51	6°26	0°24	23°16	12°54	21° 6	19°44	17°57	20°28	T 6
W 7	15 0 45	16°41'35	15°56	8°16	0 [✕] 8	28°47	15°56	6°29	0°22	23°15	12°56	21°R 7	19°41	18° 3	20°25	W 7
T 8	15 4 42	17°39'27	27°46	9°17	1°22	28°29	16° 1	6°32	0°21	23°14	12°57	21° 7	19°38	18°10	20°21	T 8
F 9	15 8 38	18°37'18	9 ^Δ 34	10°14	2°35	28°11	16° 6	6°36	0°19	23°12	12°58	21° 5	19°34	18°17	20°17	F 9
S 10	15 12 35	19°35'06	21°22	11° 7	3°49	27°52	16°11	6°39	0°18	23°11	13° 0	21° 1	19°31	18°23	20°13	S 10
S 11	15 16 32	20°32'53	3 ^{III} 14	11°55	5° 2	27°32	16°16	6°43	0°16	23°10	13° 1	20°55	19°28	18°30	20°10	S 11
M12	15 20 28	21°30'39	15°12	12°39	6°15	27°13	16°20	6°46	0°14	23° 8	13° 2	20°46	19°25	18°37	20° 6	M12
T 13	15 24 25	22°28'23	27°18	13°17	7°29	26°52	16°25	6°50	0°13	23° 7	13° 3	20°35	19°22	18°43	20° 3	T 13
W14	15 28 21	23°26'06	9 [✕] 34	13°52	8°42	26°32	16°29	6°54	0°11	23° 6	13° 5	20°24	19°18	18°50	19°59	W14
T 15	15 32 18	24°23'48	21°59	14°21	9°56	26°12	16°33	6°58	0° 9	23° 4	13° 6	20°13	19°15	18°57	19°56	T 15
F 16	15 36 14	25°21'28	4 [☾] 35	14°46	11° 9	25°51	16°37	7° 2	0° 7	23° 3	13° 7	20° 3	19°12	19° 3	19°53	F 16
S 17	15 40 11	26°19'08	17°23	15° 6	12°23	25°30	16°41	7° 6	0° 5	23° 2	13° 9	19°55	19° 9	19°10	19°50	S 17
S 18	15 44 7	27°16'46	0 ^æ 24	15°21	13°36	25° 9	16°44	7°10	0° 4	23° 0	13°10	19°49	19° 6	19°17	19°47	S 18
M19	15 48 4	28°14'23	13°40	15°32	14°50	24°48	16°47	7°14	0° 2	22°59	13°11	19°47	19° 3	19°23	19°44	M19
T 20	15 52 1	29°11'59	27°11	15°38	16° 3	24°27	16°50	7°18	29 [✕] 59	22°57	13°13	19°D46	18°59	19°30	19°41	T 20
W21	15 55 57	0 ^{II} 934	11 [✕] 1	15°R39	17°16	24° 6	16°53	7°23	29°58	22°56	13°14	19°46	18°56	19°37	19°38	W21
T 22	15 59 54	1° 7'09	25° 9	15°35	18°30	23°45	16°56	7°27	29°56	22°55	13°16	19°R46	18°53	19°43	19°35	T 22
F 23	16 3 50	2° 4'42	9 ^Y 35	15°27	19°43	23°24	16°59	7°32	29°54	22°53	13°17	19°45	18°50	19°50	19°33	F 23
S 24	16 7 47	3° 2'15	24°17	15°15	20°57	23° 3	17° 1	7°36	29°52	22°52	13°18	19°41	18°47	19°57	19°30	S 24
S 25	16 11 43	3°59'46	9 [✕] 9	14°59	22°10	22°43	17° 3	7°41	29°50	22°50	13°20	19°35	18°44	20° 3	19°28	S 25
M26	16 15 40	4°57'17	24° 4	14°39	23°24	22°23	17° 5	7°46	29°47	22°49	13°21	19°26	18°40	20°10	19°25	M26
T 27	16 19 36	5°54'47	8 ^{II} 53	14°16	24°37	22° 3	17° 7	7°50	29°45	22°47	13°22	19°16	18°37	20°17	19°23	T 27
W28	16 23 33	6°52'16	23°27	13°49	25°51	21°44	17° 9	7°55	29°43	22°46	13°24	19° 5	18°34	20°23	19°21	W28
T 29	16 27 30	7°49'44	7 [☾] 40	13°21	27° 4	21°24	17°10	8° 0	29°41	22°44	13°25	18°54	18°31	20°30	19°19	T 29
F 30	16 31 26	8°47'11	21°27	12°50	28°18	21° 6	17°11	8° 6	29°39	22°42	13°27	18°46	18°28	20°37	19°17	F 30
S 31	16 35 23	9 ^{II} 44'36	4 ^Ω 46	12 ^{II} 18	29 [✕] 31	20 ^{III} 48	17 ^æ 12	8 ^Ω 11	29 [✕] 36	22 [✕] 41	13 ^{II} 28	18 [✕] 40	18 [✕] 24	20 ^Δ 43	19 ^Δ 15	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	decl lat
T 1	15n 7	28n34	5n 5	22n40	2n24	7n30	1s29	20s21	0s 5	16s50	0s36	19n40	0n56	23s42	0s13	22s 0
F 2	15 25	27 34	4 46	23 2	2 27	7 58	1 28	20 21	0 8	16 49	0 36	19 39	0 56	23 42	0 13	22 0
S 3	15 43	25 0	4 11	23 20	2 30	8 26	1 27	20 21	0 10	16 47	0 37	19 38	0 56	23 42	0 13	22 0
S 4	16 1	21 15	3 26	23 37	2 31	8 53	1 26	20 20	0 13	16 46	0 37	19 38	0 56	23 42	0 13	21 59
M 5	16 18	16 39	2 31	23 51	2 32	9 21	1 25	20 19	0 16	16 44	0 37	19 37	0 56	23 42	0 13	21 59
T 6	16 35	11 29	1 31	24 3	2 32	9 48	1 24	20 18	0 19	16 43	0 37	19 36	0 56	23 43	0 13	21 59
W 7	16 52	5 59	0 28	24 12	2 30	10 15	1 23	20 17	0 22	16 41	0 38	19 35	0 56	23 43	0 13	21 59
T 8	17 8	0 20	0s36	24 20	2 28	10 41	1 22	20 16	0 25	16 40	0 38	19 34	0 56	23 43	0 13	21 59
F 9	17 24	5s17	1 37	24 25	2 25	11 8	1 21	20 15	0 28	16 39	0 38	19 34	0 56	23 43	0 13	21 59
S 10	17 40	10 44	2 35	24 29	2 21	11 34	1 19	20 14	0 31	16 37	0 38	19 33	0 56	23 43	0 13	21 59
S 11	17 55	15 50	3 25	24 30	2 16	12 0	1 18	20 13	0 34	16 36	0 38	19 32	0 56	23 43	0 13	21 59
M12	18 11	20 22	4 7	24 30	2 10	12 26	1 17	20 11	0 38	16 35	0 39	19 31	0 56	23 43	0 13	21 59
T 13	18 26	24 7	4 39	24 28	2 2	12 51	1 15	20 9	0 41	16 34	0 39	19 30	0 56	23 43	0 13	21 59
W14	18 40	26 50	4 58	24 24	1 54	13 16	1 14	20 8	0 44	16 33	0 39	19 29	0 56	23 43	0 13	21 59
T 15	18 54	28 17	5 3	24 18	1 45	13 41	1 12	20 6	0 47	16 32	0 39	19 28	0 56	23 43	0 13	21 59
F 16	19 8	28 18	4 53	24 11	1 35	14 5	1 10	20 4	0 50	16 31	0 40	19 27	0 56	23 43	0 14	21 58
S 17	19 22	26 48	4 29	24 3	1 24	14 29	1 9	20 2	0 53	16 30	0 40	19 26	0 56	23 43	0 14	21 58
S 18	19 35	23 52	3 51	23 52	1 12	14 53	1 7	20 0	0 56	16 29	0 40	19 25	0 56	23 43	0 14	21 58
M19	19 48	19 37	2 59	23 41	0 59	15 17	1 5	19 58	0 59	16 29	0 40	19 24	0 56	23 43	0 14	21 58
T 20	20 1	14 18	1 57	23 28	0 45	15 40	1 3	19 56	1 2	16 28	0 41	19 23	0 56	23 43	0 14	21 58
W21	20 13	8 10	0 46	23 13	0 31	16 2	1 2	19 53	1 5	16 27	0 41	19 22	0 56	23 43	0 14	21 58
T 22	20 25	1 30	0n29	22 58	0 15	16 25	1 0	19 51	1 8	16 27	0 41	19 20	0 56	23 43	0 14	21 58
F 23	20 37	5n23	1 43	22 41	0s 0	16 46	0 58	19 49	1 11	16 26	0 41	19 19	0 56	23 43	0 14	21 58
S 24	20 48	12 6	2 52	22 23	0 17	17 8	0 56	19 46	1 14	16 26	0 42	19 18	0 56	23 43	0 14	21 58
S 25	20 59	18 12	3 50	22 5	0 34	17 29	0 54	19 44	1 17	16 25	0 42	19 17	0 56	23 43	0 14	21 58
M26	21 10	23 13	4 33	21 45	0 51	17 49	0 52	19 42	1 20	16 25	0 42	19 16	0 56	23 43	0 14	21 58
T 27	21 30	26 42	4 56	21 26	1 8	18 9	0 50	19 39	1 23	16 24	0 42	19 14	0 56	23 43	0 14	21 57
W28	21 30	28 19	5 0	21 5	1 26	18 29	0 48	19 37	1 26	16 24	0 43	19 13	0 56	23 43	0 14	21 57
T 29	21 39	28 1	4 46	20 45	1 43	18 48	0 46	19 35	1 29	16 24	0 43	19 12	0 56	23 43	0 14	21 57
F 30	21 49	25 57	4 14	20 24	2 0	19 7	0 43	19 33	1 32	16 24	0 43	19 10	0 56	23 43	0 14	21 57
S 31	21n57	22n30	3n30	20n 3	2s17	19n25	0s41	19s30	1s34	16s24	0s43	19n 9	0n56	23s43	0s14	21s57

Julian Day Number = 2324926.5, Delta T = 40.99 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'05, Lahiri = 19°01'06Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1653

geocentric

JUNE 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 39 19	10 ^{II} 42'01	17 ^{II} 39	11°R45	0 ^{II} 45	20°R30	17 ^{II} 13	8 ^{II} 16	29°R34	22°R39	13 ^{II} 29	18°R36	18 ^{II} 21	20 ^{II} 50	19°R13	S 1
M 2	16 43 16	11°39'24	0 ^{II} 9	11 ^{II} 11	1°58	20 ^{II} 13	17°14	8°21	29 ^{II} 32	22 ^{II} 38	13°31	18 ^{II} 34	18°18	20°57	19 ^{II} 12	M 2
T 3	16 47 12	12°36'46	12°21	10°38	3°12	19°56	17°14	8°27	29°30	22°36	13°32	18°34	18°15	21° 3	19°10	T 3
W 4	16 51 9	13°34'07	24°19	10° 5	4°25	19°41	17°15	8°32	29°27	22°35	13°34	18°34	18°12	21°10	19° 9	W 4
T 5	16 55 5	14°31'26	6 ^{II} 10	9°34	5°39	19°25	17°R15	8°37	29°25	22°33	13°35	18°33	18° 9	21°17	19° 7	T 5
F 6	16 59 2	15°28'45	17°58	9° 4	6°52	19°11	17°15	8°43	29°23	22°31	13°36	18°30	18° 5	21°23	19° 6	F 6
S 7	17 2 59	16°26'03	29°49	8°37	8° 6	18°57	17°14	8°49	29°20	22°30	13°38	18°25	18° 2	21°30	19° 5	S 7
S 8	17 6 55	17°23'20	11 ^{II} 45	8°13	9°19	18°44	17°14	8°54	29°18	22°28	13°39	18°18	17°59	21°37	19° 4	S 8
M 9	17 10 52	18°20'37	23°51	7°52	10°33	18°31	17°13	9° 0	29°16	22°27	13°41	18° 7	17°56	21°43	19° 3	M 9
T 10	17 14 48	19°17'52	6 ^{II} 8	7°35	11°47	18°20	17°12	9° 6	29°13	22°25	13°42	17°55	17°53	21°50	19° 3	T 10
W11	17 18 45	20°15'08	18°38	7°21	13° 0	18° 9	17°11	9°12	29°11	22°23	13°43	17°42	17°50	21°57	19° 2	W11
T 12	17 22 41	21°12'22	1 ^{II} 20	7°11	14°14	17°59	17°10	9°18	29° 8	22°22	13°45	17°29	17°46	22° 3	19° 1	T 12
F 13	17 26 38	22° 9'36	14°14	7° 6	15°27	17°49	17° 9	9°24	29° 6	22°20	13°46	17°18	17°43	22°10	19° 1	F 13
S 14	17 30 35	23° 6'50	27°21	7°D 5	16°41	17°41	17° 7	9°30	29° 4	22°18	13°47	17° 9	17°40	22°17	19° 1	S 14
S 15	17 34 31	24° 4'03	10 ^{II} 38	7° 9	17°54	17°33	17° 5	9°36	29° 1	22°17	13°49	17° 2	17°37	22°23	19° 0	S 15
M16	17 38 28	25° 1'16	24° 7	7°18	19° 8	17°26	17° 3	9°42	28°59	22°15	13°50	16°58	17°34	22°30	19° 0	M16
T 17	17 42 24	25°58'29	7 ^{II} 46	7°31	20°22	17°20	17° 1	9°48	28°56	22°14	13°52	16°57	17°30	22°37	19°D 0	T 17
W18	17 46 21	26°55'41	21°37	7°49	21°35	17°15	16°59	9°55	28°54	22°12	13°53	16°57	17°27	22°43	19° 0	W18
T 19	17 50 17	27°52'54	5 ^{II} 39	8°12	22°49	17°10	16°56	10° 1	28°52	22°10	13°54	16°57	17°24	22°50	19° 0	T 19
F 20	17 54 14	28°50'07	19°53	8°39	24° 2	17° 7	16°54	10° 7	28°49	22° 9	13°56	16°56	17°21	22°57	19° 1	F 20
S 21	17 58 10	29°47'19	4 ^{II} 16	9°11	25°16	17° 4	16°51	10°14	28°47	22° 7	13°57	16°52	17°18	23° 3	19° 1	S 21
S 22	18 2 7	0 ^{II} 44'32	18°45	9°47	26°30	17° 2	16°47	10°20	28°44	22° 6	13°58	16°46	17°15	23°10	19° 2	S 22
M23	18 6 4	1°41'45	3 ^{II} 16	10°28	27°43	17° 1	16°44	10°27	28°42	22° 4	14° 0	16°38	17°11	23°17	19° 2	M23
T 24	18 10 0	2°38'58	17°43	11°14	28°57	17°D 1	16°41	10°34	28°39	22° 2	14° 1	16°27	17° 8	23°23	19° 3	T 24
W25	18 13 57	3°36'11	1 ^{II} 58	12° 4	0 ^{II} 11	17° 1	16°37	10°40	28°37	22° 1	14° 2	16°16	17° 5	23°30	19° 4	W25
T 26	18 17 53	4°33'23	15°57	12°58	1°24	17° 3	16°33	10°47	28°35	21°59	14° 4	16° 6	17° 2	23°37	19° 5	T 26
F 27	18 21 50	5°30'36	29°34	13°57	2°38	17° 5	16°29	10°54	28°32	21°58	14° 5	15°57	16°59	23°43	19° 6	F 27
S 28	18 25 46	6°27'48	12 ^{II} 48	14°59	3°52	17° 8	16°25	11° 0	28°30	21°56	14° 6	15°51	16°56	23°50	19° 7	S 28
S 29	18 29 43	7°25'00	25°39	16° 6	5° 6	17°12	16°21	11° 7	28°27	21°55	14° 8	15°47	16°52	23°57	19° 9	S 29
M30	18 33 39	8°22'12	8 ^{II} 9	17 ^{II} 18	6°219	17 ^{II} 16	16°16	11 ^{II} 14	28 ^{II} 25	21 ^{II} 53	14 ^{II} 9	15 ^{II} 45	16 ^{II} 49	24 ^{II} 3	19 ^{II} 10	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22n 6	18n 3	2n36	19n43	2s33	19n43	0s39	19s28	1s37	16s24	0s44	19n 8	0n56	23s43	0s14	21s57	1n20	13n25	9s 7	4s31	4s37	10s43	7s49	0s18	
M 2	22 14	12 56	1 36	19 24	2 48	20 0	0 37	19 26	1 40	16 24	0 44	19 6	0 56	23 43	0 14	21 57	1 20	13 25	9 7	4 32	4 38	10 46	7 48	0 17	
T 3	22 21	7 27	0 33	19 5	3 2	20 16	0 35	19 24	1 42	16 24	0 44	19 5	0 56	23 43	0 14	21 57	1 20	13 25	9 7	4 32	4 39	10 49	7 47	0 17	
W 4	22 28	1 48	0s30	18 47	3 16	20 32	0 32	19 22	1 45	16 24	0 44	19 4	0 56	23 43	0 14	21 57	1 20	13 25	9 7	4 32	4 41	10 52	7 46	0 16	
T 5	22 35	3s52	1 32	18 30	3 28	20 48	0 30	19 20	1 47	16 24	0 45	19 2	0 56	23 43	0 14	21 57	1 20	13 26	9 7	4 32	4 42	10 56	7 45	0 16	
F 6	22 42	9 21	2 29	18 15	3 39	21 3	0 28	19 19	1 50	16 25	0 45	19 1	0 56	23 43	0 14	21 57	1 20	13 26	9 7	4 33	4 43	10 59	7 44	0 16	
S 7	22 48	14 32	3 20	18 1	3 49	21 17	0 25	19 17	1 52	16 25	0 45	18 59	0 56	23 43	0 14	21 57	1 20	13 26	9 7	4 35	4 44	11 2	7 43	0 15	
S 8	22 53	19 13	4 2	17 49	3 58	21 31	0 23	19 16	1 54	16 25	0 45	18 58	0 56	23 43	0 14	21 56	1 20	13 26	9 7	4 38	4 46	11 5	7 43	0 15	
M 9	22 58	23 11	4 34	17 38	4 5	21 44	0 21	19 14	1 57	16 26	0 46	18 56	0 56	23 43	0 14	21 56	1 20	13 26	9 7	4 42	4 47	11 8	7 42	0 15	
T 10	23 3	26 12	4 54	17 30	4 11	21 56	0 18	19 13	1 59	16 26	0 46	18 55	0 56	23 43	0 14	21 56	1 20	13 27	9 7	4 47	4 48	11 12	7 41	0 14	
W11	23 8	27 59	5 0	17 23	4 15	22 8	0 16	19 12	2 1	16 27	0 46	18 53	0 56	23 43	0 14	21 56	1 20	13 27	9 7	4 52	4 49	11 15	7 41	0 14	
T 12	23 12	28 20	4 51	17 18	4 18	22 20	0 14	19 11	2 3	16 27	0 46	18 52	0 56	23 43	0 14	21 56	1 20	13 27	9 7	4 57	4 51	11 18	7 40	0 13	
F 13	23 15	27 10	4 28	17 16	4 20	22 30	0 11	19 11	2 5	16 28	0 47	18 50	0 56	23 43	0 14	21 56	1 20	13 27	9 7	5 2	4 52	11 21	7 40	0 13	
S 14	23 18	24 29	3 50	17 15	4 21	22 40	0 9	19 10	2 7	16 29	0 47	18 48	0 56	23 43	0 14	21 56	1 20	13 27	9 7	5 5	4 53	11 24	7 39	0 13	
S 15	23 21	20 29	2 59	17 16	4 20	22 50	0 6	19 10	2 9	16 30	0 47	18 47	0 56	23 43	0 14	21 56	1 20	13 27	9 7	5 8	4 54	11 27	7 39	0 12	
M16	23 24	15 22	1 58	17 19	4 19	22 58	0 4	19 9	2 11	16 30	0 47	18 45	0 56	23 43	0 14	21 56	1 20	13 28	9 7	5 9	4 55	11 31	7 38	0 12	
T 17	23 26	9 25	0 48	17 24	4 16	23 6	0 2	19 9	2 12	16 31	0 48	18 43	0 56	23 43	0 14	21 56	1 20	13 28	9 7	5 10	4 57	11 34	7 38	0 12	
W18	23 27	2 57	0n25	17 31	4 12	23 14	0n 1	19 9	2 14	16 32	0 48	18 42	0 56	23 43	0 14	21 56	1 20	13 28	9 7	5 10	4 58	11 37	7 38	0 11	
T 19	23 28	3n44	1 37	17 39	4 7	23 21	0 3	19 10	2 16	16 33	0 48	18 40	0 56	23 43	0 14	21 55	1 20	13 28	9 7	5 10	4 59	11 40	7 37	0 11	
F 20	23 29	10 20	2 45	17 49	4 1	23 27	0 5	19 10	2 17	16 34	0 48	18 38	0 56	23 43	0 14	21 55	1 20	13 28	9 7	5 10	5 0	11 43	7 37	0 10	
S 21	23 29	16 27	3 43	18 1	3 54	23 32	0 8	19 11	2 19	16 35	0 49	18 37	0 56	23 43	0 14	21 55	1 20	13 28	9 7	5 12	5 2	11 46	7 37	0 10	
S 22	23 29	21 42	4 27	18 13	3 47	23 37	0 10	19 12	2 20	16 37	0 49	18 35	0 56	23 43	0 14	21 55	1 20	13 28	9 7	5 14	5 3	11 50	7 37	0 10	
M23	23 29	25 39	4 53	18 27	3 38	23 41	0 13	19 13	2 22	16 38	0 49	18 33	0 56	23 43	0 14	21 55	1 20	13 29	9 7	5 17	5 4	11 53	7 37	0 9	
T 24	23 28	27 55	5 1	18 43	3 30	23 44	0 15	19 14	2 23	16 39	0 49	18 31	0 56	23 43	0 14	21 55	1 20	13 29	9 7	5 21	5 5	11 56	7 37	0 9	
W25	23 26	28 19	4 50	18 59	3 20	23 46	0 17	19 15	2 24	16 40	0 50	18 29	0 56	23 43	0 14	21 55	1 20	13 29	9 7	5 26	5 7	11 59	7 37	0 9	
T 26	23 24	26 52	4 22	19 16	3 10	23 48	0 20	19 17	2 26	16 42	0 50	18 28	0 56	23 43	0 14	21 55	1 20	13 29	9 7	5 30	5 8	12 2	7 37	0 8	
F 27	23 22	23 51	3 39	19 33	2 59	23 50	0 22	19 19	2 27	16 43	0 50	18 26	0 56	23 43	0 14	21 55	1 20	13 29	9 7	5 33	5 9	12 5	7 37	0 8	
S 28	23 20	19 38	2 46	19 52	2 48	23 50	0 24	19 21	2 28	16 45	0 50	18 24	0 56	23 43	0 14	21 55	1 20	13 29	9 7	5 36	5 10	12 9	7 37	0 8	
S 29	23 17	14 38	1 45	20 10	2 36	23 50	0 26	19 23	2 29	16 46	0 51	18 22	0 56	23 43	0 14	21 55	1 20	13 29	9 7	5 37	5 12	12 12	7 37	0 7	
M30	23n13	9n 9	0n40	20n29	2s24	23n49	0n29	19s25	2s30	16s48	0s51	18n20	0n56	23s43	0s14	21s55	1n20	13n29	9s 7	5s38	5s13	12s15	7s37	0s 7	

ASTRODIENST EPHEMERIS for the year 1653

geocentric

JULY 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 37 36	9 ⁵⁵ 19'24	20 ¹¹ 21	18 ¹¹ 33	7 ⁵³ 33	17 ¹¹ 22	16 ¹⁰ 12	11 ¹⁰ 21	28 ¹⁰ 23	21 ¹⁰ 51	14 ¹¹ 10	15 ¹⁰ D45	16 ¹⁰ 46	24 ¹⁰ 10	19 ¹⁰ 12	T 1
W 2	18 41 33	10 ¹⁶ 35	2 ¹² 21	19 ¹⁰ 52	8 ⁴⁷	17 ¹⁰ 28	16 ¹⁰ 7	11 ¹⁰ 28	28 ¹⁰ 20	21 ¹⁰ 50	14 ¹⁰ 12	15 ¹⁰ 45	16 ¹⁰ 43	24 ¹⁰ 17	19 ¹⁰ 13	W 2
T 3	18 45 29	11 ¹³ 46	14 ¹⁰ 13	21 ¹⁰ 15	10 ¹	17 ¹⁰ 35	16 ¹⁰ 2	11 ¹⁰ 35	28 ¹⁰ 18	21 ¹⁰ 48	14 ¹⁰ 13	15 ¹⁰ R45	16 ¹⁰ 40	24 ¹⁰ 23	19 ¹⁰ 15	T 3
F 4	18 49 26	12 ¹⁰ 57	26 ¹⁰ 3	22 ¹⁰ 42	11 ¹⁰ 14	17 ¹⁰ 43	15 ¹⁰ 57	11 ¹⁰ 42	28 ¹⁰ 15	21 ¹⁰ 47	14 ¹⁰ 14	15 ¹⁰ 44	16 ¹⁰ 36	24 ¹⁰ 30	19 ¹⁰ 17	F 4
S 5	18 53 22	13 ⁸ 09	7 ¹¹ 56	24 ¹⁰ 13	12 ¹⁰ 28	17 ¹⁰ 51	15 ¹⁰ 51	11 ¹⁰ 49	28 ¹⁰ 13	21 ¹⁰ 45	14 ¹⁰ 15	15 ¹⁰ 41	16 ¹⁰ 33	24 ¹⁰ 37	19 ¹⁰ 19	S 5
S 6	18 57 19	14 ⁵ 20	19 ¹⁰ 56	25 ¹⁰ 48	13 ¹⁰ 42	18 ¹⁰ 1	15 ¹⁰ 46	11 ¹⁰ 56	28 ¹⁰ 11	21 ¹⁰ 44	14 ¹⁰ 17	15 ¹⁰ 36	16 ¹⁰ 30	24 ¹⁰ 43	19 ¹⁰ 21	S 6
M 7	19 1 15	15 ² 31	2 ¹¹ 8	27 ¹⁰ 26	14 ¹⁰ 56	18 ¹⁰ 11	15 ¹⁰ 40	12 ¹⁰ 3	28 ¹⁰ 8	21 ¹⁰ 43	14 ¹⁰ 18	15 ¹⁰ 29	16 ¹⁰ 27	24 ¹⁰ 50	19 ¹⁰ 23	M 7
T 8	19 5 12	15 ⁵⁹ 42	14 ¹⁰ 34	29 ¹⁰ 8	16 ¹⁰ 9	18 ¹⁰ 21	15 ¹⁰ 35	12 ¹⁰ 10	28 ¹⁰ 6	21 ¹⁰ 41	14 ¹⁰ 19	15 ¹⁰ 20	16 ¹⁰ 24	24 ¹⁰ 57	19 ¹⁰ 26	T 8
W 9	19 9 8	16 ⁵⁶ 54	27 ¹⁰ 16	0 ⁵³ 53	17 ¹⁰ 23	18 ¹⁰ 33	15 ¹⁰ 29	12 ¹⁰ 18	28 ¹⁰ 4	21 ¹⁰ 40	14 ¹⁰ 20	15 ¹⁰ 10	16 ¹⁰ 21	25 ¹⁰ 4	19 ¹⁰ 28	W 9
T 10	19 13 5	17 ⁵⁴ 06	10 ¹³ 15	2 ¹⁰ 42	18 ¹⁰ 37	18 ¹⁰ 45	15 ¹⁰ 23	12 ¹⁰ 25	28 ¹⁰ 2	21 ¹⁰ 38	14 ¹⁰ 21	15 ¹⁰ 0	16 ¹⁰ 17	25 ¹⁰ 10	19 ¹⁰ 31	T 10
F 11	19 17 2	18 ⁵¹ 18	23 ¹⁰ 30	4 ¹⁰ 33	19 ¹⁰ 51	18 ¹⁰ 58	15 ¹⁰ 17	12 ¹⁰ 32	27 ¹⁰ 59	21 ¹⁰ 37	14 ¹⁰ 23	14 ¹⁰ 51	16 ¹⁰ 14	25 ¹⁰ 17	19 ¹⁰ 33	F 11
S 12	19 20 58	19 ⁴⁸ 30	6 ¹⁰ 58	6 ¹⁰ 28	21 ¹⁰ 5	19 ¹⁰ 11	15 ¹⁰ 10	12 ¹⁰ 39	27 ¹⁰ 57	21 ¹⁰ 35	14 ¹⁰ 24	14 ¹⁰ 44	16 ¹⁰ 11	25 ¹⁰ 24	19 ¹⁰ 36	S 12
S 13	19 24 55	20 ⁴⁵ 43	20 ¹⁰ 39	8 ¹⁰ 25	22 ¹⁰ 19	19 ¹⁰ 25	15 ¹⁰ 4	12 ¹⁰ 47	27 ¹⁰ 55	21 ¹⁰ 34	14 ¹⁰ 25	14 ¹⁰ 39	16 ¹⁰ 8	25 ¹⁰ 30	19 ¹⁰ 39	S 13
M14	19 28 51	21 ⁴² 57	4 ¹¹ 29	10 ¹⁰ 24	23 ¹⁰ 32	19 ¹⁰ 40	14 ¹⁰ 58	12 ¹⁰ 54	27 ¹⁰ 53	21 ¹⁰ 33	14 ¹⁰ 26	14 ¹⁰ 37	16 ¹⁰ 5	25 ¹⁰ 37	19 ¹⁰ 42	M14
T 15	19 32 48	22 ⁴⁰ 11	18 ¹⁰ 27	12 ¹⁰ 25	24 ¹⁰ 46	19 ¹⁰ 55	14 ¹⁰ 51	13 ¹⁰ 1	27 ¹⁰ 51	21 ¹⁰ 31	14 ¹⁰ 27	14 ¹⁰ D37	16 ¹⁰ 2	25 ¹⁰ 44	19 ¹⁰ 45	T 15
W16	19 36 44	23 ³⁷ 26	2 ¹¹ 30	14 ¹⁰ 28	26 ¹⁰ 0	20 ¹⁰ 11	14 ¹⁰ 44	13 ¹⁰ 9	27 ¹⁰ 49	21 ¹⁰ 30	14 ¹⁰ 28	14 ¹⁰ 37	15 ¹⁰ 58	25 ¹⁰ 50	19 ¹⁰ 48	W16
T 17	19 40 41	24 ³⁴ 42	16 ¹⁰ 38	16 ¹⁰ 33	27 ¹⁰ 14	20 ¹⁰ 28	14 ¹⁰ 37	13 ¹⁰ 16	27 ¹⁰ 47	21 ¹⁰ 29	14 ¹⁰ 29	14 ¹⁰ 38	15 ¹⁰ 55	25 ¹⁰ 57	19 ¹⁰ 51	T 17
F 18	19 44 37	25 ³¹ 58	0 ¹⁰ 8	18 ¹⁰ 39	28 ¹⁰ 28	20 ¹⁰ 45	14 ¹⁰ 31	13 ¹⁰ 24	27 ¹⁰ 44	21 ¹⁰ 28	14 ¹⁰ 31	14 ¹⁰ R39	15 ¹⁰ 52	26 ¹⁰ 4	19 ¹⁰ 54	F 18
S 19	19 48 34	26 ²⁹ 16	14 ¹⁰ 59	20 ¹⁰ 45	29 ¹⁰ 42	21 ¹⁰ 2	14 ¹⁰ 24	13 ¹⁰ 31	27 ¹⁰ 42	21 ¹⁰ 26	14 ¹⁰ 32	14 ¹⁰ 37	15 ¹⁰ 49	26 ¹⁰ 10	19 ¹⁰ 58	S 19
S 20	19 52 31	27 ²⁶ 35	29 ¹⁰ 10	22 ¹⁰ 52	0 ¹⁰ 56	21 ¹⁰ 21	14 ¹⁰ 16	13 ¹⁰ 39	27 ¹⁰ 40	21 ¹⁰ 25	14 ¹⁰ 33	14 ¹⁰ 34	15 ¹⁰ 46	26 ¹⁰ 17	20 ¹⁰ 1	S 20
M21	19 56 27	28 ²³ 55	13 ¹¹ 17	24 ¹⁰ 59	2 ¹⁰ 10	21 ¹⁰ 40	14 ¹⁰ 9	13 ¹⁰ 46	27 ¹⁰ 38	21 ¹⁰ 24	14 ¹⁰ 34	14 ¹⁰ 28	15 ¹⁰ 42	26 ¹⁰ 24	20 ¹⁰ 5	M21
T 22	20 0 24	29 ²¹ 15	27 ¹⁰ 16	27 ¹⁰ 6	3 ¹⁰ 24	21 ¹⁰ 59	14 ¹⁰ 2	13 ¹⁰ 54	27 ¹⁰ 36	21 ¹⁰ 23	14 ¹⁰ 35	14 ¹⁰ 22	15 ¹⁰ 39	26 ¹⁰ 30	20 ¹⁰ 9	T 22
W23	20 4 20	0 ¹⁰ 18'37	11 ¹⁰ 56	29 ¹⁰ 12	4 ¹⁰ 38	22 ¹⁰ 19	13 ¹⁰ 55	14 ¹⁰ 1	27 ¹⁰ 35	21 ¹⁰ 21	14 ¹⁰ 36	14 ¹⁰ 15	15 ¹⁰ 36	26 ¹⁰ 37	20 ¹⁰ 13	W23
T 24	20 8 17	1 ¹⁶ 00	24 ¹⁰ 41	1 ¹⁰ 18	5 ¹⁰ 52	22 ¹⁰ 40	13 ¹⁰ 47	14 ¹⁰ 9	27 ¹⁰ 33	21 ¹⁰ 20	14 ¹⁰ 37	14 ¹⁰ 8	15 ¹⁰ 33	26 ¹⁰ 44	20 ¹⁰ 17	T 24
F 25	20 12 13	2 ¹⁰ 13'23	7 ¹⁰ 59	3 ¹⁰ 24	7 ¹⁰ 6	23 ¹⁰ 1	13 ¹⁰ 40	14 ¹⁰ 16	27 ¹⁰ 31	21 ¹⁰ 19	14 ¹⁰ 38	14 ¹⁰ 2	15 ¹⁰ 30	26 ¹⁰ 50	20 ¹⁰ 21	F 25
S 26	20 16 10	3 ¹⁰ 10'47	20 ¹⁰ 59	5 ¹⁰ 28	8 ¹⁰ 20	23 ¹⁰ 22	13 ¹⁰ 32	14 ¹⁰ 24	27 ¹⁰ 29	21 ¹⁰ 18	14 ¹⁰ 39	13 ¹⁰ 58	15 ¹⁰ 27	26 ¹⁰ 57	20 ¹⁰ 25	S 26
S 27	20 20 7	4 ¹⁰ 8'12	3 ¹¹ 41	7 ¹⁰ 31	9 ¹⁰ 34	23 ¹⁰ 44	13 ¹⁰ 25	14 ¹⁰ 31	27 ¹⁰ 27	21 ¹⁰ 17	14 ¹⁰ 40	13 ¹⁰ 56	15 ¹⁰ 23	27 ¹⁰ 4	20 ¹⁰ 29	S 27
M28	20 24 3	5 ¹⁰ 5'37	16 ¹⁰ 6	9 ¹⁰ 33	10 ¹⁰ 48	24 ¹⁰ 7	13 ¹⁰ 17	14 ¹⁰ 39	27 ¹⁰ 25	21 ¹⁰ 16	14 ¹⁰ 41	13 ¹⁰ D55	15 ¹⁰ 20	27 ¹⁰ 10	20 ¹⁰ 33	M28
T 29	20 28 0	6 ¹⁰ 3'03	28 ¹⁰ 16	11 ¹⁰ 34	12 ¹⁰ 2	24 ¹⁰ 30	13 ¹⁰ 9	14 ¹⁰ 47	27 ¹⁰ 24	21 ¹⁰ 15	14 ¹⁰ 42	13 ¹⁰ 56	15 ¹⁰ 17	27 ¹⁰ 17	20 ¹⁰ 38	T 29
W30	20 31 56	7 ¹⁰ 0'30	10 ¹⁰ 15	13 ¹⁰ 33	13 ¹⁰ 16	24 ¹⁰ 54	13 ¹⁰ 2	14 ¹⁰ 54	27 ¹⁰ 22	21 ¹⁰ 14	14 ¹⁰ 43	13 ¹⁰ 58	15 ¹⁰ 14	27 ¹⁰ 24	20 ¹⁰ 42	W30
T 31	20 35 53	7 ¹⁰ 57'58	22 ¹⁰ 7	15 ¹⁰ 31	14 ¹⁰ 30	25 ¹⁰ 18	12 ¹⁰ 54	15 ¹⁰ 2	27 ¹⁰ 20	21 ¹⁰ 13	14 ¹⁰ 44	13 ¹⁰ 59	15 ¹⁰ 11	27 ¹⁰ 30	20 ¹⁰ 47	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23n 9	3n27	0s25	20n48	2s12	23n47	0n31	19s28	2s31	16s50	0s51	18n18	0n56	23s43	0s14	21s55	1n20	13n30	9s 7	5s38	5s14	12s18	7s38	0s 6							
W 2	23 5	2s16	1 27	21 7	2 0	23 45	0 33	19 31	2 32	16 51	0 51	18 17	0 56	23 43	0 14	21 55	1 20	13 30	9 7	5 38	5 15	12 21	7 38	0 6							
T 3	23 1	7 51	2 26	21 25	1 47	23 42	0 35	19 34	2 33	16 53	0 52	18 15	0 56	23 43	0 14	21 54	1 20	13 30	9 7	5 38	5 17	12 24	7 38	0 6							
F 4	22 56	13 9	3 18	21 43	1 34	23 38	0 37	19 37	2 34	16 55	0 52	18 13	0 56	23 43	0 14	21 54	1 20	13 30	9 7	5 38	5 18	12 27	7 39	0 5							
S 5	22 50	17 59	4 1	22 1	1 21	23 33	0 40	19 40	2 35	16 56	0 52	18 11	0 56	23 43	0 14	21 54	1 20	13 30	9 7	5 39	5 19	12 30	7 39	0 5							
S 6	22 44	22 10	4 35	22 17	1 8	23 28	0 42	19 43	2 36	16 58	0 52	18 9	0 56	23 43	0 14	21 54	1 20	13 30	9 7	5 41	5 20	12 34	7 40	0 5							
M 7	22 38	25 28	4 56	22 33	0 55	23 22	0 44	19 47	2 36	17 0	0 52	18 7	0 56	23 43	0 14	21 54	1 20	13 30	9 7	5 44	5 21	12 37	7 40	0 4							
T 8	22 32	27 38	5 4	22 47	0 42	23 16	0 46	19 50	2 37	17 2	0 53	18 5	0 56	23 42	0 14	21 54	1 20	13 30	9 7	5 48	5 23	12 40	7 41	0 4							
W 9	22 25	28 25	4 58	22 59	0 30	23 9	0 48	19 54	2 38	17 4	0 53	18 3	0 56	23 42	0 14	21 54	1 20	13 30	9 7	5 51	5 24	12 43	7 41	0 4							
T 10	22 17	27 40	4 36	23 10	0 17	23 1	0 50	19 58	2 38	17 6	0 53	18 1	0 56	23 42	0 14	21 54	1 20	13 30	9 7	5 55	5 25	12 46	7 42	0 3							
F 11	22 9	25 21	3 59	23 19	0 5	22 52	0 52	20 3	2 39	17 8	0 53	17 59	0 56	23 42	0 14	21 54	1 19	13 30	9 7	5 59	5 26	12 49	7 43	0 3							
S 12	22 1	21 35	3 8	23 26	0n 7	22 43	0 53	20 7	2 40	17 10	0 53	17 57	0 57	23 42	0 14	21 54	1 19	13 30	9 7	6 1	5 28	12 52	7 43	0 3							
S 13	21 53	16 37	2 5	23 31	0 18	22 33	0 55	20 11	2 40	17 12	0 54	17 55	0 57	23 42	0 14	21 54	1 19	13 30	9 8	6 3	5 29	12 55	7 44	0 2							
M14	21 44	10 43	0 54	23 34	0 29	22 22	0 57	20 16	2 41	17 14	0 54	17 53	0 57	23 42	0 14	21 54	1 19	13 30	9 8	6 4	5 30	12 58	7 45	0 2							
T 15	21 35	4 16	0n21	23 33	0 39	22 11	0 59	20 20	2 41	17 16	0 54	17 51	0 57	23 42	0 14	21 54	1 19	13 31	9 8	6 4	5 31	13 1	7 46	0 2							
W16	21 25	2n27	1 35	23 31	0 49	21 59	1 1	20 25	2 42	17 19	0 54	17 49	0 57	23 42	0 14	21 54	1 19	13 31	9 8	6 4	5 33	13 5	7 47	0 1							
T 17	21 15	9 4	2 44	23 25	0 58	21 46	1 2	20 30	2 42	17 21	0 55	17 47	0 57	23 42	0 14	21 54	1 19	13 31	9 8	6 4	5 34	13 8	7 48	0 1							
F 18	21 5	15 15	3 43	23 17	1 6	21 33	1 4	20 35	2 43	17 23	0 55	17 44	0 57	23 42	0 14	21 54	1 19	13 31	9 8	6 4	5 35	13 11	7 49	0 1							
S 19	20 54	20 38	4 28	23 6	1 14	21 19	1 5	20 40	2 43	17 25	0 55	17 42	0 57	23 42	0 14	21 54	1 19	13 31	9 8	6 4	5 36	13 14	7 50	0 0							
S 20	20 43	24 50	4 57	22 52	1 20	21 5	1 7	20 45	2 43	17 27	0 55	17 40	0 57	23 42	0 14	21 53	1 19	13 31	9 8	6 5	5 38	13 17	7 51	0 0							
M21	20 31	27 32	5 8	22 36	1 26	20 50	1 8	20 51	2 44	17 30	0 55	17 38	0 57	23 42	0 14	21 53	1 19	13 31	9 8	6 7	5 39	13 20	7 52	0n 0							
T 22	20 20	28 28	5 0	22 17	1 32	20 34	1 10	20 56	2 44	17 32	0 55	17 36	0 57	23 42	0 14	21 53	1 19	13 31	9 8	6 10	5 40	13 23	7 53	0 1							
W23	20 7	27 36	4 35	21 55	1 36	20 18	1 11	21 2	2 44	17 34	0 56	17 34	0 57	23 42	0 14	21 53	1 19	13 31	9 8	6 13	5 41	13 26	7 54	0 1							
T24	19 55	25 5	3 55	21 32	1 40	20 1	1 12	21 7	2 44	17 37	0 56	17 32	0 57	23 42	0 14	21 53	1 19	13 31	9 8	6 15	5 42	13 29	7 55	0 1							
F 25	19 42	21 14	3 2	21 6	1 43	19 43	1 14	21 13	2 45	17 39	0 56	17 30	0 57	23 42	0 14	21 53	1 19	13 31	9 9	6 18	5 44	13 32	7 56	0 2							
S 26	19 29	16 27	2 1	20 38	1 45	19 25	1 15	21 19	2 45	17 41	0 56	17 27	0 57	23 42	0 14	21 53	1 19	13 31	9 9	6 19	5 45	13 35	7 58	0 2							
S 27	19 16	11 2	0 55	20 8	1 46	19 7	1 16	21 24	2 45	17 44	0 56	17 25	0 57	23 42	0 14	21 53	1 19	13 31	9 9	6 20	5 46	13 38	7 59	0 2							
M28	19 2	5 19	0s12	19 37	1 47	18 48	1 17	21 30	2 45	17 46	0 56	17 23	0 57	23 42	0 14	21 53	1 19	13 31	9 9	6 20	5 47	13 41	8 0	0 3							
T29	18 48	0s29	1 17	19 3	1 47	18 28	1 18	21 36	2 45	17 48	0 57	17 21	0 57	23 42	0 14	21 53	1 19	13 31	9 9	6 20	5 49	13 44	8 2	0 3							
W30	18 33	6 11	2 19	18 29	1 46	18 8	1 19	21 42	2 45	17 51	0 57	17 19	0 57	23 42	0 14	21 53	1 19	13 31	9 9	6 19	5 50	13 47	8 3	0 3							
T 31	18n19	11s37	3s13	17n53	1n45	17n47	1n20	21s48	2s45	17s53	0s57	17n17	0n58	23s42	0s14	21s53	1n19	13n31	9s 9	6s19	5s51	13s51	8s 4	0n 3							

ASTRODIENST EPHEMERIS for the year 1653

geocentric

AUGUST 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 39 49	8♂55'27	3♂58	17♂27	15♂44	25♂42	12♂R46	15♂10	27♂R19	21♂R12	14♂II45	14♂R 0	15♂✕ 8	27♂♂37	20♂♂51	F 1
S 2	20 43 46	9°52'56	15°51	19°22	16°58	26° 7	12♂♂38	15°17	27♂♂17	21♂♂11	14°45	14♂✕ 0	15° 4	27°44	20°56	S 2
S 3	20 47 42	10°50'26	27°53	21°15	18°12	26°33	12°30	15°25	27°16	21°10	14°46	13°59	15° 1	27°50	21° 1	S 3
M 4	20 51 39	11°47'57	10♂ 7	23° 7	19°26	26°58	12°22	15°33	27°14	21° 9	14°47	13°56	14°58	27°57	21° 6	M 4
T 5	20 55 36	12°45'29	22°37	24°58	20°40	27°25	12°15	15°40	27°13	21° 8	14°48	13°52	14°55	28° 4	21°11	T 5
W 6	20 59 32	13°43'02	5♂27	26°46	21°54	27°51	12° 7	15°48	27°11	21° 7	14°49	13°47	14°52	28°11	21°16	W 6
T 7	21 3 29	14°40'36	18°37	28°34	23° 8	28°18	11°59	15°56	27°10	21° 7	14°50	13°43	14°48	28°17	21°21	T 7
F 8	21 7 25	15°38'11	2♂ 7	0♂19	24°23	28°46	11°51	16° 3	27° 8	21° 6	14°50	13°39	14°45	28°24	21°27	F 8
S 9	21 11 22	16°35'48	15°57	2° 4	25°37	29°14	11°43	16°11	27° 7	21° 5	14°51	13°35	14°42	28°31	21°32	S 9
S 10	21 15 18	17°33'25	0♂ 2	3°46	26°51	29°42	11°36	16°19	27° 6	21° 4	14°52	13°34	14°39	28°37	21°37	S 10
M 11	21 19 15	18°31'04	14°18	5°28	28° 5	0♂11	11°28	16°26	27° 5	21° 4	14°53	13°D33	14°36	28°44	21°43	M 11
T 12	21 23 11	19°28'44	28°41	7° 8	29°19	0°40	11°20	16°34	27° 3	21° 3	14°53	13°34	14°33	28°51	21°48	T 12
W 13	21 27 8	20°26'25	13♂ 7	8°46	0♂33	1° 9	11°13	16°42	27° 2	21° 2	14°54	13°35	14°29	28°57	21°54	W 13
T 14	21 31 5	21°24'08	27°30	10°23	1°47	1°38	11° 5	16°50	27° 1	21° 2	14°55	13°36	14°26	29° 4	22° 0	T 14
F 15	21 35 1	22°21'53	11♂48	11°59	3° 1	2° 8	10°57	16°57	27° 0	21° 1	14°55	13°37	14°23	29°11	22° 6	F 15
S 16	21 38 58	23°19'40	25°58	13°33	4°16	2°39	10°50	17° 5	26°59	21° 1	14°56	13°R37	14°20	29°17	22°12	S 16
S 17	21 42 54	24°17'29	9♂59	15° 6	5°30	3° 9	10°42	17°13	26°58	21° 0	14°56	13°37	14°17	29°24	22°18	S 17
M 18	21 46 51	25°15'19	23°48	16°37	6°44	3°40	10°35	17°20	26°57	21° 0	14°57	13°35	14°14	29°31	22°24	M 18
T 19	21 50 47	26°13'11	7♂24	18° 7	7°58	4°12	10°28	17°28	26°56	20°59	14°58	13°33	14°10	29°37	22°30	T 19
W 20	21 54 44	27°11'05	20°48	19°35	9°12	4°43	10°21	17°35	26°56	20°59	14°58	13°31	14° 7	29°44	22°36	W 20
T 21	21 58 40	28° 9'01	3♂58	21° 2	10°26	5°15	10°13	17°43	26°55	20°58	14°59	13°29	14° 4	29°51	22°42	T 21
F 22	22 2 37	29° 6'58	16°53	22°28	11°41	5°48	10° 6	17°51	26°54	20°58	14°59	13°27	14° 1	29°57	22°49	F 22
S 23	22 6 34	0♂ 4'56	29°35	23°52	12°55	6°20	10° 0	17°58	26°53	20°58	15° 0	13°26	13°58	0♂ 4	22°55	S 23
S 24	22 10 30	1° 2'57	12♂ 3	25°14	14° 9	6°53	9°53	18° 6	26°53	20°57	15° 0	13°D26	13°54	0°11	23° 1	S 24
M 25	22 14 27	2° 0'58	24°18	26°35	15°23	7°26	9°46	18°13	26°52	20°57	15° 1	13°26	13°51	0°18	23° 8	M 25
T 26	22 18 23	2°59'07	6♂22	27°55	16°37	8° 0	9°39	18°21	26°52	20°57	15° 1	13°26	13°48	0°24	23°15	T 26
W 27	22 22 20	3°57'06	18°18	29°13	17°51	8°33	9°33	18°28	26°51	20°57	15° 1	13°27	13°45	0°31	23°21	W 27
T 28	22 26 16	4°55'13	0♂10	0♂29	19° 6	9° 7	9°26	18°36	26°51	20°56	15° 2	13°28	13°42	0°38	23°28	T 28
F 29	22 30 13	5°53'21	11°59	1°43	20°20	9°42	9°20	18°43	26°50	20°56	15° 2	13°29	13°39	0°44	23°35	F 29
S 30	22 34 9	6°51'30	23°52	2°56	21°34	10°16	9°14	18°51	26°50	20°56	15° 3	13°30	13°35	0°51	23°42	S 30
S 31	22 38 6	7♂49'41	5♂53	4♂ 6	22♂48	10♂51	9♂ 8	18♂58	26♂50	20♂56	15♂II 3	13°R30	13♂✕32	0♂58	23♂49	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	18n 4	16s37	3s59	17n16	1n43	17n26	1n21	21s54	2s45	17s55	0s57	17n14	0n58	23s42	0s14	21s53
S 2	17 48	21 1	4 36	16 38	1 40	17 5	1 22	22 0	2 45	17 58	0 57	17 12	0 58	23 42	0 14	21 53
S 3	17 33	24 36	5 0	15 59	1 38	16 43	1 23	22 6	2 45	18 0	0 57	17 10	0 58	23 42	0 14	21 53
M 4	17 17	27 9	5 12	15 19	1 34	16 20	1 23	22 12	2 45	18 2	0 57	17 8	0 58	23 42	0 14	21 53
T 5	17 1	28 25	5 9	14 39	1 30	15 57	1 24	22 18	2 45	18 5	0 58	17 5	0 58	23 42	0 14	21 53
W 6	16 44	28 13	4 51	13 57	1 26	15 34	1 24	22 24	2 45	18 7	0 58	17 3	0 58	23 42	0 14	21 53
T 7	16 28	26 26	4 17	13 16	1 21	15 10	1 25	22 30	2 45	18 9	0 58	17 1	0 58	23 42	0 14	21 53
F 8	16 11	23 6	3 28	12 34	1 16	14 46	1 25	22 36	2 45	18 12	0 58	16 59	0 58	23 42	0 14	21 53
S 9	15 54	18 24	2 26	11 51	1 10	14 21	1 26	22 43	2 45	18 14	0 58	16 57	0 58	23 41	0 14	21 53
S 10	15 36	12 38	1 14	11 9	1 5	13 56	1 26	22 49	2 45	18 16	0 58	16 54	0 58	23 41	0 14	21 53
M 11	15 18	6 8	0n 4	10 26	0 58	13 31	1 26	22 55	2 45	18 18	0 58	16 52	0 58	23 41	0 14	21 53
T 12	15 0	0n44	1 22	9 43	0 52	13 5	1 26	23 1	2 45	18 21	0 58	16 50	0 58	23 41	0 14	21 53
W 13	14 42	7 34	2 36	9 0	0 45	12 39	1 26	23 7	2 44	18 23	0 58	16 48	0 59	23 41	0 14	21 53
T 14	14 24	14 0	3 39	8 16	0 38	12 12	1 26	23 13	2 44	18 25	0 58	16 45	0 59	23 41	0 14	21 53
F 15	14 5	19 39	4 28	7 33	0 31	11 45	1 26	23 19	2 44	18 27	0 59	16 43	0 59	23 41	0 14	21 53
S 16	13 46	24 9	5 0	6 50	0 23	11 18	1 26	23 24	2 44	18 29	0 59	16 41	0 59	23 41	0 14	21 53
S 17	13 27	27 10	5 15	6 7	0 16	10 51	1 26	23 30	2 44	18 31	0 59	16 39	0 59	23 41	0 14	21 53
M 18	13 8	28 30	5 10	5 25	0 8	10 23	1 26	23 36	2 43	18 34	0 59	16 36	0 59	23 41	0 14	21 53
T 19	12 48	28 5	4 48	4 42	0s 0	9 55	1 26	23 42	2 43	18 36	0 59	16 34	0 59	23 41	0 14	21 53
W 20	12 28	26 1	4 11	4 0	0 9	9 27	1 25	23 47	2 43	18 38	0 59	16 32	0 59	23 41	0 14	21 53
T 21	12 8	22 33	3 21	3 18	0 17	8 59	1 25	23 53	2 42	18 40	0 59	16 30	0 59	23 41	0 14	21 53
F 22	11 48	18 3	2 22	2 36	0 25	8 30	1 24	23 59	2 42	18 42	0 59	16 27	0 59	23 41	0 14	21 53
S 23	11 28	12 50	1 16	1 55	0 34	8 1	1 24	24 4	2 42	18 44	0 59	16 25	0 59	23 41	0 14	21 53
S 24	11 7	7 11	0 8	1 15	0 43	7 32	1 23	24 9	2 42	18 45	0 59	16 23	1 0	23 41	0 14	21 53
M 25	10 47	1 21	1s 0	0 34	0 52	7 2	1 22	24 15	2 41	18 47	0 59	16 21	1 0	23 41	0 14	21 53
T 26	10 26	4s26	2 4	0s 5	1 0	6 33	1 22	24 20	2 41	18 49	0 59	16 18	1 0	23 41	0 14	21 53
W 27	10 5	9 59	3 1	0 45	1 9	6 3	1 21	24 25	2 40	18 51	0 59	16 16	1 0	23 41	0 14	21 53
T 28	9 44	15 9	3 51	1 23	1 18	5 33	1 20	24 30	2 40	18 53	0 59	16 14	1 0	23 41	0 14	21 53
F 29	9 22	19 45	4 31	2 1	1 27	5 3	1 19	24 35	2 40	18 54	0 59	16 12	1 0	23 41	0 14	21 53
S 30	9 1	23 36	4 59	2 38	1 36	4 33	1 18	24 39	2 39	18 56	0 59	16 9	1 0	23 41	0 14	21 53
S 31	8n39	26s29	5s14	3s14	1s45	4n 2	1n17	24s44	2s39	18s58	0s59	16n 7	1n 0	23s41	0s14	21s53

Julian Day Number = 2325018.5, Delta T = 40.82 sec
 Ecliptic obliquity = 23°29'12, Nutation = 0°00'05, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°54'18, Lahiri = 19°01'19Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1653
geocentric

SEPTEMBER 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 42 3	8♍47°53	18♌5	5♊15	24♏2	11♌26	9♏2	19♏6	26♏49	20♏56	15♏3	13♏30	13♏29	1♏4	23♏55	M 1
T 2	22 45 59	9°46'07	0♌34	6°22	25°17	12° 1	8♌56	19°13	26♏49	20♏56	15° 3	13♏29	13°26	1°11	24° 3	T 2
W 3	22 49 56	10°44'23	13°23	7°26	26°31	12°37	8°51	19°20	26°49	20♏56	15° 4	13°29	13°23	1°18	24°10	W 3
T 4	22 53 52	11°42'40	26°36	8°28	27°45	13°12	8°45	19°28	26°49	20°56	15° 4	13°29	13°20	1°24	24°17	T 4
F 5	22 57 49	12°40'59	10♌13	9°28	28°59	13°48	8°40	19°35	26°49	20°56	15° 4	13°29	13°16	1°31	24°24	F 5
S 6	23 1 45	13°39'19	24°14	10°25	0♊13	14°24	8°35	19°42	26°49	20°56	15° 4	13°D29	13°13	1°38	24°31	S 6
S 7	23 5 42	14°37'41	8♌37	11°19	1°27	15° 1	8°30	19°50	26°49	20°57	15° 4	13°R29	13°10	1°44	24°38	S 7
M 8	23 9 38	15°36'04	23°16	12°10	2°42	15°37	8°25	19°57	26°49	20°57	15° 5	13°29	13° 7	1°51	24°46	M 8
T 9	23 13 35	16°34'30	8♏5	12°58	3°56	16°14	8°21	20° 4	26°49	20°57	15° 5	13°29	13° 4	1°58	24°53	T 9
W10	23 17 31	17°32'58	22°57	13°43	5°10	16°51	8°16	20°11	26°50	20°57	15° 5	13°28	13° 0	2° 5	25° 1	W10
T 11	23 21 28	18°31'27	7♌44	14°24	6°24	17°28	8°12	20°18	26°50	20°57	15° 5	13°28	12°57	2°11	25° 8	T 11
F 12	23 25 25	19°29'59	22°19	15° 0	7°38	18° 6	8° 8	20°25	26°50	20°58	15° 5	13°27	12°54	2°18	25°16	F 12
S 13	23 29 21	20°28'34	6♏39	15°33	8°52	18°44	8° 4	20°32	26°51	20°58	15° 5	13°27	12°51	2°25	25°23	S 13
S 14	23 33 18	21°27'10	20°40	16° 1	10° 7	19°21	8° 0	20°39	26°51	20°58	15°R 5	13°D27	12°48	2°31	25°31	S 14
M15	23 37 14	22°25'49	4♌21	16°24	11°21	19°59	7°56	20°46	26°52	20°59	15° 5	13°27	12°45	2°38	25°39	M15
T 16	23 41 11	23°24'30	17°44	16°42	12°35	20°38	7°53	20°53	26°52	20°59	15° 5	13°27	12°41	2°45	25°46	T 16
W17	23 45 7	24°23'14	0♏48	16°54	13°49	21°16	7°50	21° 0	26°53	21° 0	15° 5	13°28	12°38	2°51	25°54	W17
T 18	23 49 4	25°21'59	13°37	17°R 0	15° 3	21°54	7°47	21° 7	26°53	21° 0	15° 5	13°29	12°35	2°58	26° 2	T 18
F 19	23 53 1	26°20'47	26°12	16°59	16°17	22°33	7°44	21°14	26°54	21° 1	15° 5	13°30	12°32	3° 5	26°10	F 19
S 20	23 56 57	27°19'37	8♏35	16°51	17°32	23°12	7°41	21°21	26°55	21° 1	15° 5	13°R31	12°29	3°11	26°18	S 20
S 21	0 0 54	28°18'28	20°48	16°37	18°46	23°51	7°39	21°27	26°55	21° 2	15° 5	13°31	12°25	3°18	26°26	S 21
M22	0 4 50	29°17'22	2♊52	16°15	20° 0	24°30	7°36	21°34	26°56	21° 3	15° 4	13°30	12°22	3°25	26°34	M22
T 23	0 8 47	0♊16'18	14°50	15°45	21°14	25°10	7°34	21°40	26°57	21° 3	15° 4	13°28	12°19	3°32	26°42	T 23
W24	0 12 43	1°15'16	26°43	15° 8	22°28	25°49	7°32	21°47	26°58	21° 4	15° 4	13°26	12°16	3°38	26°50	W24
T 25	0 16 40	2°14'16	8♏33	14°24	23°42	26°29	7°31	21°53	26°59	21° 5	15° 4	13°23	12°13	3°45	26°58	T 25
F 26	0 20 36	3°13'17	20°22	13°33	24°56	27° 9	7°29	22° 0	27° 0	21° 6	15° 4	13°19	12°10	3°52	27° 6	F 26
S 27	0 24 33	4°12'21	2♌15	12°36	26°10	27°49	7°28	22° 6	27° 1	21° 6	15° 3	13°16	12° 6	3°58	27°14	S 27
S 28	0 28 29	5°11'27	14°14	11°33	27°25	28°29	7°27	22°13	27° 2	21° 7	15° 3	13°14	12° 3	4° 5	27°22	S 28
M29	0 32 26	6°10'34	26°24	10°26	28°39	29°10	7°26	22°19	27° 4	21° 8	15° 3	13°13	12° 0	4°12	27°30	M29
T 30	0 36 23	7♊9'43	8♌49	9♊17	29♊53	29♊50	7♊25	22♏25	27♌5	21♌9	15♏2	13°D12	11♌57	4♏18	27♊38	T 30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	lat	
M 1	8n17	28s12	5s16	3s50	1s54	3n32	1n16	24s49	2s38	18s59	0s59	16n 5	1n 0	23s41	0s14	21s53	1n17	13n28	9s14	6s30	6s30	15s26	9s 6	0n13
T 2	7 55	28 32	5 3	4 24	2 3	3 1	1 15	24 53	2 38	19 1	0 59	16 3	1 1	23 41	0 14	21 54	1 17	13 28	9 14	6 30	6 32	15 29	9 8	0 13
W 3	7 33	27 22	4 35	4 58	2 11	2 31	1 13	24 57	2 37	19 2	0 59	16 1	1 1	23 41	0 14	21 54	1 17	13 28	9 14	6 30	6 33	15 32	9 11	0 14
T 4	7 11	24 40	3 52	5 30	2 20	2 0	1 12	25 1	2 37	19 3	0 59	15 58	1 1	23 41	0 14	21 54	1 17	13 28	9 14	6 30	6 34	15 35	9 13	0 14
F 5	6 49	20 31	2 54	6 2	2 28	1 29	1 11	25 5	2 36	19 5	0 59	15 56	1 1	23 41	0 14	21 54	1 17	13 28	9 14	6 30	6 35	15 38	9 15	0 14
S 6	6 26	15 7	1 45	6 32	2 37	0 58	1 9	25 9	2 36	19 6	0 59	15 54	1 1	23 41	0 14	21 54	1 17	13 28	9 15	6 30	6 36	15 40	9 18	0 14
S 7	6 4	8 46	0 27	7 1	2 45	0 27	1 8	25 13	2 35	19 8	0 59	15 52	1 1	23 41	0 14	21 54	1 17	13 28	9 15	6 30	6 38	15 43	9 20	0 15
M 8	5 41	1 51	0n54	7 28	2 53	0s 4	1 6	25 17	2 35	19 9	0 59	15 50	1 1	23 41	0 14	21 54	1 17	13 27	9 15	6 30	6 39	15 46	9 23	0 15
T 9	5 19	5n14	2 12	7 54	3 0	0 35	1 4	25 20	2 34	19 10	0 59	15 48	1 1	23 41	0 14	21 54	1 17	13 27	9 15	6 30	6 40	15 49	9 25	0 15
W10	4 56	12 4	3 22	8 18	3 8	1 6	1 3	25 23	2 34	19 11	0 59	15 45	1 1	23 41	0 14	21 54	1 17	13 27	9 15	6 31	6 41	15 52	9 28	0 16
T 11	4 33	18 10	4 18	8 40	3 15	1 37	1 1	25 26	2 33	19 12	0 59	15 43	1 2	23 41	0 14	21 54	1 17	13 27	9 15	6 31	6 43	15 55	9 30	0 16
F 12	4 10	23 9	4 56	9 1	3 21	2 8	0 59	25 29	2 33	19 13	0 59	15 41	1 2	23 41	0 14	21 54	1 17	13 27	9 16	6 31	6 44	15 58	9 33	0 16
S 13	3 47	26 38	5 15	9 19	3 27	2 39	0 57	25 32	2 32	19 14	0 59	15 39	1 2	23 41	0 14	21 54	1 17	13 27	9 16	6 31	6 45	16 1	9 35	0 16
S 14	3 24	28 23	5 15	9 35	3 33	3 10	0 55	25 34	2 31	19 15	0 59	15 37	1 2	23 41	0 14	21 54	1 17	13 26	9 16	6 31	6 46	16 4	9 38	0 17
M15	3 1	28 21	4 56	9 49	3 38	3 41	0 54	25 37	2 31	19 16	0 59	15 35	1 2	23 41	0 14	21 54	1 17	13 26	9 16	6 31	6 47	16 6	9 40	0 17
T 16	2 37	26 38	4 22	9 59	3 42	4 11	0 52	25 39	2 30	19 17	0 59	15 33	1 2	23 41	0 14	21 54	1 17	13 26	9 16	6 31	6 49	16 9	9 43	0 17
W17	2 14	23 31	3 35	10 7	3 46	4 42	0 50	25 41	2 30	19 18	0 59	15 31	1 2	23 41	0 14	21 55	1 16	13 26	9 16	6 31	6 50	16 12	9 45	0 18
T 18	1 51	19 17	2 38	10 12	3 48	5 13	0 47	25 43	2 29	19 18	0 59	15 28	1 3	23 41	0 14	21 55	1 16	13 26	9 16	6 30	6 51	16 15	9 48	0 18
F 19	1 27	14 17	1 34	10 13	3 50	5 43	0 45	25 45	2 28	19 19	0 59	15 26	1 3	23 41	0 14	21 55	1 16	13 26	9 17	6 30	6 52	16 18	9 50	0 18
S 20	1 4	8 47	0 27	10 10	3 50	6 14	0 43	25 46	2 28	19 20	0 59	15 24	1 3	23 41	0 14	21 55	1 16	13 25	9 17	6 30	6 53	16 21	9 53	0 18
S 21	0 40	3 2	0s40	10 4	3 49	6 44	0 41	25 47	2 27	19 20	0 59	15 22	1 3	23 41	0 14	21 55	1 16	13 25	9 17	6 30	6 55	16 24	9 56	0 19
M22	0 17	2s45	1 45	9 53	3 47	7 14	0 39	25 49	2 26	19 21	0 59	15 20	1 3	23 41	0 14	21 55	1 16	13 25	9 17	6 30	6 56	16 26	9 58	0 19
T 23	0s 6	8 23	2 44	9 38	3 43	7 44	0 36	25 49	2 26	19 21	0 59	15 18	1 3	23 41	0 14	21 55	1 16	13 25	9 17	6 31	6 57	16 29	10 1	0 19
W24	0 30	13 41	3 36	9 19	3 37	8 14	0 34	25 50	2 25	19 22	0 58	15 16	1 3	23 41	0 14	21 55	1 16	13 25	9 17	6 32	6 58	16 32	10 4	0 19
T 25	0 54	18 27	4 19	8 55	3 30	8 44	0 32	25 51	2 24	19 22	0 58	15 14	1 4	23 41	0 14	21 55	1 16	13 25	9 18	6 33	7 0	16 35	10 6	0 20
F 26	1 17	22 32	4 50	8 26	3 21	9 13	0 29	25 51	2 24	19 23	0 58	15 12	1 4	23 41	0 14	21 55	1 16	13 24	9 18	6 34	7 1	16 38	10 9	0 20
S 27	1 41	25 42	5 9	7 54	3 10	9 43	0 27	25 51	2 23	19 23	0 58	15 10	1 4	23 41	0 14	21 55	1 16	13 24	9 18	6 35	7 2	16 40	10 11	0 20
S 28	2 4	27 45	5 14	7 17	2 57	10 12	0 24	25 51	2 22	19 23	0 58	15 9	1 4	23 41	0 14	21 56	1 16	13 24	9 18	6 36	7 3	16 43	10 14	0 21
M29	2 27	28 32	5 6	6 37	2 42	10 40	0 22	25 50	2 21	19 23	0 58	15 7	1 4	23 41	0 14	21 56	1 16	13 24	9 18	6 37	7 4	16 46	10 17	0 21
T 30	2s51	27s55	4s44	5s55	2s25	11s 9	0n19	25s50	2s21	19s23	0s58	15n 5	1n 4	23s41	0s14	21s56	1n16	13n24	9s18	6s37	7s 6	16s49	10s20	0n21

ASTRODIENST EPHEMERIS for the year 1653
geocentric

OCTOBER 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 40 19	8♌ 8'54	21♊32	8♌R 7	1♌ 7	0♊31	7♌R25	22♌31	27♌ 6	21♌10	15♌R 2	13♌13	11♌54	4♌25	27♌47	W 1
T 2	0 44 16	9° 8'07	4♌39	6♌58	2°21	1°12	7♌24	22°37	27° 7	21°11	15♌ 2	13°14	11°51	4°32	27°55	T 2
F 3	0 48 12	10° 7'21	18°12	5°52	3°35	1°53	7°D24	22°44	27° 9	21°12	15° 1	13°16	11°47	4°38	28° 3	F 3
S 4	0 52 9	11° 6'37	2♌12	4°51	4°49	2°34	7°24	22°49	27°10	21°13	15° 1	13°17	11°44	4°45	28°12	S 4
S 5	0 56 5	12° 5'55	16°38	3°56	6° 3	3°15	7°25	22°55	27°12	21°14	15° 0	13°R17	11°41	4°52	28°20	S 5
M 6	1 0 2	13° 5'15	1°Y28	3° 9	7°17	3°56	7°25	23° 1	27°13	21°15	15° 0	13°16	11°38	4°59	28°28	M 6
T 7	1 3 58	14° 4'37	16°34	2°32	8°31	4°38	7°26	23° 7	27°15	21°16	15° 0	13°14	11°35	5° 5	28°37	T 7
W 8	1 7 55	15° 4'01	1♌47	2° 5	9°45	5°19	7°27	23°13	27°16	21°17	14°59	13°10	11°31	5°12	28°45	W 8
T 9	1 11 52	16° 3'27	16°56	1°49	10°59	6° 1	7°28	23°18	27°18	21°18	14°59	13° 5	11°28	5°19	28°53	T 9
F 10	1 15 48	17° 2'56	1♌53	1°D44	12°13	6°42	7°29	23°24	27°20	21°20	14°58	13° 0	11°25	5°25	29° 2	F 10
S 11	1 19 45	18° 2'26	16°29	1°50	13°27	7°24	7°30	23°30	27°22	21°21	14°57	12°56	11°22	5°32	29°10	S 11
S 12	1 23 41	19° 2'00	0♌41	2° 7	14°41	8° 6	7°32	23°35	27°23	21°22	14°57	12°53	11°19	5°39	29°19	S 12
M13	1 27 38	20° 1'35	14°25	2°34	15°55	8°48	7°34	23°40	27°25	21°23	14°56	12°D52	11°16	5°45	29°27	M13
T 14	1 31 34	21° 1'13	27°45	3°10	17° 9	9°31	7°36	23°46	27°27	21°25	14°56	12°52	11°12	5°52	29°36	T 14
W15	1 35 31	22° 0'53	10♌41	3°55	18°23	10°13	7°38	23°51	27°29	21°26	14°55	12°53	11° 9	5°59	29°44	W15
T 16	1 39 27	23° 0'35	23°18	4°48	19°37	10°55	7°41	23°56	27°31	21°27	14°54	12°55	11° 6	6° 6	29°53	T 16
F 17	1 43 24	24° 0'20	5♌39	5°48	20°51	11°38	7°43	24° 1	27°33	21°29	14°54	12°56	11° 3	6°12	0♌ 1	F 17
S 18	1 47 21	25° 0'06	17°48	6°55	22° 5	12°20	7°46	24° 6	27°35	21°30	14°53	12°R56	11° 0	6°19	0°10	S 18
S 19	1 51 17	25°59'55	29°49	8° 7	23°19	13° 3	7°49	24°11	27°37	21°32	14°52	12°54	10°57	6°26	0°18	S 19
M20	1 55 14	26°59'46	11♌45	9°23	24°33	13°46	7°52	24°16	27°39	21°33	14°52	12°51	10°53	6°32	0°27	M20
T 21	1 59 10	27°59'39	23°37	10°44	25°46	14°29	7°56	24°21	27°42	21°35	14°51	12°45	10°50	6°39	0°35	T 21
W22	2 3 7	28°59'34	5♌27	12° 8	27° 0	15°12	7°59	24°25	27°44	21°36	14°50	12°37	10°47	6°46	0°44	W22
T 23	2 7 3	29°59'31	17°18	13°35	28°14	15°55	8° 3	24°30	27°46	21°38	14°49	12°27	10°44	6°52	0°52	T 23
F 24	2 11 0	0♌59'30	29°10	15° 5	29°28	16°38	8° 7	24°35	27°49	21°39	14°49	12°18	10°41	6°59	1° 1	F 24
S 25	2 14 56	1°59'30	11♌ 6	16°36	0♌42	17°21	8°11	24°39	27°51	21°41	14°48	12° 8	10°37	7° 6	1° 9	S 25
S 26	2 18 53	2°59'33	23° 8	18°10	1°56	18° 5	8°16	24°43	27°53	21°43	14°47	12° 0	10°34	7°13	1°18	S 26
M27	2 22 50	3°59'37	5♌18	19°44	3°10	18°48	8°20	24°48	27°56	21°44	14°46	11°54	10°31	7°19	1°26	M27
T 28	2 26 46	4°59'43	17°41	21°19	4°23	19°32	8°25	24°52	27°58	21°46	14°45	11°50	10°28	7°26	1°35	T 28
W29	2 30 43	5°59'50	0♌20	22°56	5°37	20°15	8°30	24°56	28° 1	21°48	14°45	11°D48	10°25	7°33	1°43	W29
T 30	2 34 39	6°59'59	13°18	24°32	6°51	20°59	8°35	25° 0	28° 3	21°49	14°44	11°48	10°22	7°39	1°52	T 30
F 31	2 38 36	8♌ 0'09	26♌41	26♌10	8♌ 5	21♌43	8♌40	25♌ 4	28♌ 6	21♌51	14♌43	11♌49	10♌18	7♌46	2♌ 0	F 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	3s14	25s49	4s 7	5s11	2s 7	11s37	0n17	25s49	2s20	19s23	0s58	15n 3	1n 4	23s41	0s14	21s56	1n16	13n24	9s18	6s37	7s 7	16s52	10s22	0n21					
T 2	3 38	22 19	3 16	4 26	1 48	12 6	0 14	25 48	2 19	19 23	0 58	15 1	1 5	23 41	0 14	21 56	1 16	13 23	9 19	6 36	7 8	16 55	10 25	0 22					
F 3	4 1	17 31	2 13	3 41	1 28	12 33	0 11	25 47	2 18	19 23	0 58	14 59	1 5	23 41	0 14	21 56	1 16	13 23	9 19	6 35	7 9	16 57	10 28	0 22					
S 4	4 24	11 39	1 1	2 58	1 8	13 1	0 9	25 45	2 18	19 23	0 58	14 57	1 5	23 41	0 14	21 56	1 16	13 23	9 19	6 35	7 10	17 0	10 30	0 22					
S 5	4 47	5 0	0n18	2 17	0 47	13 28	0 6	25 43	2 17	19 23	0 58	14 56	1 5	23 41	0 14	21 56	1 16	13 23	9 19	6 35	7 12	17 3	10 33	0 23					
M 6	5 11	2n 5	1 38	1 40	0 27	13 55	0 3	25 42	2 16	19 23	0 58	14 54	1 5	23 41	0 14	21 56	1 16	13 23	9 19	6 35	7 13	17 6	10 36	0 23					
T 7	5 34	9 10	2 52	1 7	0 7	14 22	0 1	25 39	2 15	19 23	0 58	14 52	1 5	23 42	0 14	21 57	1 15	13 22	9 19	6 36	7 14	17 8	10 38	0 23					
W 8	5 57	15 46	3 54	0 40	0n11	14 48	0s 2	25 37	2 14	19 22	0 57	14 50	1 6	23 42	0 14	21 57	1 15	13 22	9 19	6 38	7 15	17 11	10 41	0 23					
T 9	6 20	21 24	4 40	0 17	0 29	15 14	0 5	25 34	2 13	19 22	0 57	14 49	1 6	23 42	0 14	21 57	1 15	13 22	9 20	6 39	7 17	17 14	10 44	0 24					
F 10	6 43	25 34	5 6	0 0	0 45	15 39	0 8	25 31	2 13	19 22	0 57	14 47	1 6	23 42	0 14	21 57	1 15	13 22	9 20	6 41	7 18	17 17	10 47	0 24					
S 11	7 5	27 57	5 11	0n11	1 0	16 4	0 10	25 28	2 12	19 21	0 57	14 45	1 6	23 42	0 14	21 57	1 15	13 22	9 20	6 43	7 19	17 19	10 49	0 24					
S 12	7 28	28 26	4 57	0 16	1 13	16 29	0 13	25 25	2 11	19 21	0 57	14 44	1 6	23 42	0 14	21 57	1 15	13 21	9 20	6 44	7 20	17 22	10 52	0 25					
M13	7 51	27 6	4 26	0 16	1 25	16 53	0 16	25 21	2 10	19 20	0 57	14 42	1 6	23 42	0 14	21 57	1 15	13 21	9 20	6 45	7 21	17 25	10 55	0 25					
T 14	8 13	24 16	3 41	0 11	1 35	17 17	0 19	25 18	2 9	19 19	0 57	14 40	1 7	23 42	0 14	21 57	1 15	13 21	9 20	6 45	7 23	17 28	10 58	0 25					
W15	8 35	20 15	2 46	0 1	1 43	17 41	0 21	25 14	2 8	19 19	0 57	14 39	1 7	23 42	0 14	21 58	1 15	13 21	9 20	6 44	7 24	17 30	11 0	0 25					
T 16	8 58	15 26	1 45	0s14	1 50	18 4	0 24	25 9	2 8	19 18	0 57	14 37	1 7	23 42	0 14	21 58	1 15	13 21	9 20	6 44	7 25	17 33	11 3	0 26					
F 17	9 20	10 4	0 40	0 32	1 56	18 26	0 27	25 5	2 7	19 17	0 57	14 36	1 7	23 42	0 14	21 58	1 15	13 21	9 21	6 43	7 26	17 36	11 6	0 26					
S 18	9 42	4 25	0s26	0 55	2 0	18 48	0 30	25 0	2 6	19 16	0 57	14 34	1 7	23 42	0 14	21 58	1 15	13 20	9 21	6 43	7 27	17 39	11 8	0 26					
S 19	10 4	1s18	1 30	1 20	2 3	19 10	0 33	24 55	2 5	19 16	0 57	14 33	1 7	23 42	0 14	21 58	1 15	13 20	9 21	6 44	7 29	17 41	11 11	0 27					
M20	10 25	6 57	2 29	1 49	2 5	19 31	0 35	24 50	2 4	19 15	0 56	14 31	1 8	23 42	0 14	21 58	1 15	13 20	9 21	6 45	7 30	17 44	11 14	0 27					
T 21	10 47	12 18	3 22	2 20	2 6	19 51	0 38	24 44	2 3	19 14	0 56	14 30	1 8	23 42	0 14	21 58	1 15	13 20	9 21	6 47	7 31	17 47	11 17	0 27					
W22	11 8	17 13	4 5	2 53	2 6	20 11	0 41	24 39	2 2	19 13	0 56	14 29	1 8	23 42	0 14	21 59	1 15	13 20	9 21	6 50	7 32	17 50	11 19	0 27					
T 23	11 29	21 28	4 38	3 27	2 5	20 31	0 44	24 33	2 1	19 12	0 56	14 27	1 8	23 42	0 14	21 59	1 15	13 19	9 21	6 54	7 33	17 52	11 22	0 28					
F 24	11 51	24 52	4 58	4 3	3 2	20 50	0 46	24 26	2 0	19 10	0 56	14 26	1 8	23 42	0 14	21 59	1 15	13 19	9 21	6 58	7 35	17 55	11 25	0 28					
S 25	12 11	27 12	5 6	4 41	2 1	21 8	0 49	24 20	1 59	19 9	0 56	14 25	1 9	23 42	0 14	21 59	1 15	13 19	9 21	7 1	7 36	17 58	11 27	0 28					
S 26	12 32	28 19	5 1	5 19	1 58	21 26	0 52	24 13	1 59	19 8	0 56	14 23	1 9	23 42	0 14	21 59	1 15	13 19	9 22	7 4	7 37	18 0	11 30	0 29					
M27	12 52	28 4	4 41	5 58	1 54	21 43	0 55	24 6	1 58	19 7	0 56	14 22	1 9	23 42	0 14	21 59	1 15	13 19	9 22	7 7	7 38	18 3	11 33	0 29					
T 28	13 13	26 25	4 9	6 38	1 50	22 0	0 57	23 59	1 57	19 5	0 56	14 21	1 9	23 42	0 14	21 59	1 15	13 18	9 22	7 8	7 39	18 6	11 35	0 29					
W29	13 33	23 26	3 23	7 18	1 46	22 16	1 0	23 52	1 56	19 4	0 56	14 20	1 9	23 42	0 14	22 0	1 15	13 18	9 22	7 9	7 41	18 8	11 38	0 29					
T 30	13 53	19 12	2 27	7 58	1 41	22 31	1 2	23 44	1 55	19 3	0 56	14 18	1 10	23 42	0 14	22 0	1 15	13 18	9 22	7 9	7 42	18 11	11 41	0 30					
F 31	14s12	13s54	1s20	8s38	1n36	22s46	1s 5	23s36	1s54	19s 1	0s55	14n17	1n10	23s42	0s14	22s 0	1n14	13n18	9s22	7s 9	7s43	18s14	11s43	0n30					

Julian Day Number = 2325079.5, Delta T = 40.70 sec
Ecliptic obliquity = 23°29'13", Nutation = 0°00'05", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'26", Lahiri = 19°01'27"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1653
geocentric

NOVEMBER 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 42 32	9♍ 0'21	10♋30	27♎47	9♏19	22♏26	8♏46	25♏ 8	28♏ 9	21♏53	14°R42	11°R50	10♋15	7♍53	2♍ 9	S 1
S 2	2 46 29	10° 0'34	24°47	29°25	10°32	23°10	8°51	25°11	28°11	21°55	14II41	11♋49	10°12	7°59	2°17	S 2
M 3	2 50 25	11° 0'49	9♍30	1♍ 2	11°46	23°54	8°57	25°15	28°14	21°56	14°40	11°46	10° 9	8° 6	2°26	M 3
T 4	2 54 22	12° 1'06	24°35	2°40	13° 0	24°38	9° 3	25°19	28°17	21°58	14°39	11°41	10° 6	8°13	2°34	T 4
W 5	2 58 19	13° 1'24	9♎53	4°18	14°13	25°22	9° 9	25°22	28°19	22° 0	14°38	11°33	10° 2	8°20	2°43	W 5
T 6	3 2 15	14° 1'44	25°13	5°55	15°27	26° 6	9°15	25°25	28°22	22° 2	14°37	11°24	9°59	8°26	2°51	T 6
F 7	3 6 12	15° 2'06	10II24	7°32	16°41	26°50	9°22	25°29	28°25	22° 4	14°36	11°14	9°56	8°33	2°59	F 7
S 8	3 10 8	16° 2'29	25°16	9° 9	17°54	27°35	9°28	25°32	28°28	22° 6	14°35	11° 5	9°53	8°40	3° 8	S 8
S 9	3 14 5	17° 2'55	9♎41	10°46	19° 8	28°19	9°35	25°35	28°31	22° 8	14°34	10°57	9°50	8°46	3°16	S 9
M10	3 18 1	18° 3'22	23°36	12°23	20°22	29° 3	9°42	25°38	28°34	22°10	14°33	10°53	9°47	8°53	3°25	M10
T 11	3 21 58	19° 3'51	7♎ 1	14° 0	21°35	29°48	9°49	25°41	28°37	22°12	14°32	10°50	9°43	9° 0	3°33	T 11
W12	3 25 54	20° 4'22	19°58	15°36	22°49	0♎32	9°56	25°43	28°40	22°14	14°31	10°D49	9°40	9° 6	3°41	W12
T 13	3 29 51	21° 4'55	2♍33	17°12	24° 2	1°17	10° 4	25°46	28°43	22°16	14°30	10°50	9°37	9°13	3°49	T 13
F 14	3 33 48	22° 5'30	14°49	18°48	25°16	2° 1	10°11	25°48	28°46	22°18	14°29	10°R50	9°34	9°20	3°58	F 14
S 15	3 37 44	23° 6'06	26°52	20°23	26°29	2°46	10°19	25°51	28°49	22°20	14°28	10°48	9°31	9°27	4° 6	S 15
S 16	3 41 41	24° 6'44	8♎47	21°59	27°43	3°30	10°27	25°53	28°52	22°22	14°27	10°45	9°28	9°33	4°14	S 16
M17	3 45 37	25° 7'24	20°38	23°34	28°56	4°15	10°35	25°55	28°55	22°24	14°26	10°39	9°24	9°40	4°22	M17
T 18	3 49 34	26° 8'05	2♍27	25° 9	0♎10	5° 0	10°43	25°58	28°58	22°26	14°25	10°29	9°21	9°47	4°31	T 18
W19	3 53 30	27° 8'48	14°17	26°44	1°23	5°44	10°51	26° 0	29° 1	22°28	14°24	10°17	9°18	9°53	4°39	W19
T 20	3 57 27	28° 9'32	26°11	28°18	2°36	6°29	11° 0	26° 2	29° 5	22°30	14°22	10° 3	9°15	10° 0	4°47	T 20
F 21	4 1 23	29°10'18	8♏10	29°53	3°50	7°14	11° 8	26° 3	29° 8	22°32	14°21	9°48	9°12	10° 7	4°55	F 21
S 22	4 5 20	0♏11'05	20°14	1♏27	5° 3	7°59	11°17	26° 5	29°11	22°34	14°20	9°34	9° 8	10°13	5° 3	S 22
S 23	4 9 17	1°11'53	2♎24	3° 1	6°16	8°44	11°26	26° 7	29°14	22°36	14°19	9°21	9° 5	10°20	5°11	S 23
M24	4 13 13	2°12'43	14°43	4°35	7°30	9°29	11°35	26° 8	29°18	22°39	14°18	9°11	9° 2	10°27	5°19	M24
T 25	4 17 10	3°13'33	27°12	6°10	8°43	10°14	11°44	26° 9	29°21	22°41	14°17	9° 4	8°59	10°34	5°27	T 25
W26	4 21 6	4°14'24	9♎53	7°44	9°56	10°58	11°53	26°11	29°24	22°43	14°16	9° 0	8°56	10°40	5°35	W26
T 27	4 25 3	5°15'17	22°50	9°17	11° 9	11°44	12° 3	26°12	29°28	22°45	14°15	8°58	8°53	10°47	5°42	T 27
F 28	4 28 59	6°16'10	6♋ 6	10°51	12°22	12°29	12°12	26°13	29°31	22°47	14°13	8°58	8°49	10°54	5°50	F 28
S 29	4 32 56	7°17'03	19°44	12°25	13°35	13°14	12°22	26°14	29°34	22°49	14°12	8°57	8°46	11° 0	5°58	S 29
S 30	4 36 52	8♏17'58	3♍46	13♏59	14♎48	13♏59	12♏32	26♎15	29♏38	22♏52	14II11	8♋56	8♋43	11♍ 7	6♍ 6	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	14s32	7s45	0s 7	9s18	1n30	23s 0	1s 8	23s28	1s53	19s 0	0s55	14n16	1n10	23s42	0s14	22s 0	1n14	13n18	9s22	7s 8	7s44	18s16	11s46	0n30			
S 2	14 51	1 2	1n 9	9 58	1 25	23 14	1 10	23 20	1 52	18 58	0 55	14 15	1 10	23 42	0 14	22 0	1 14	13 18	9 22	7 9	7 46	18 19	11 49	0 31			
M 3	15 10	5n57	2 22	10 38	1 19	23 27	1 13	23 11	1 51	18 57	0 55	14 14	1 10	23 42	0 14	22 0	1 14	13 17	9 22	7 10	7 47	18 22	11 51	0 31			
T 4	15 28	12 45	3 27	11 17	1 13	23 39	1 15	23 3	1 50	18 55	0 55	14 13	1 11	23 42	0 14	22 0	1 14	13 17	9 22	7 12	7 48	18 24	11 54	0 31			
W 5	15 47	18 53	4 19	11 56	1 6	23 50	1 18	22 54	1 49	18 53	0 55	14 12	1 11	23 43	0 14	22 1	1 14	13 17	9 22	7 15	7 49	18 27	11 57	0 32			
T 6	16 5	23 49	4 51	12 35	1 0	24 1	1 20	22 44	1 48	18 51	0 55	14 11	1 11	23 43	0 14	22 1	1 14	13 17	9 22	7 18	7 50	18 30	11 59	0 32			
F 7	16 23	27 3	5 3	13 13	0 53	24 11	1 22	22 35	1 47	18 50	0 55	14 10	1 11	23 43	0 14	22 1	1 14	13 17	9 23	7 22	7 52	18 32	12 2	0 32			
S 8	16 40	28 18	4 54	13 50	0 47	24 20	1 25	22 25	1 46	18 48	0 55	14 9	1 11	23 43	0 14	22 1	1 14	13 17	9 23	7 25	7 53	18 35	12 4	0 32			
S 9	16 58	27 34	4 26	14 27	0 40	24 29	1 27	22 15	1 45	18 46	0 55	14 9	1 12	23 43	0 14	22 1	1 14	13 16	9 23	7 28	7 54	18 37	12 7	0 33			
M10	17 15	25 5	3 44	15 3	0 33	24 37	1 29	22 5	1 44	18 44	0 55	14 8	1 12	23 43	0 14	22 1	1 14	13 16	9 23	7 30	7 55	18 40	12 10	0 33			
T 11	17 31	21 17	2 50	15 39	0 27	24 44	1 31	21 55	1 43	18 42	0 55	14 7	1 12	23 43	0 14	22 1	1 14	13 16	9 23	7 31	7 56	18 43	12 12	0 33			
W12	17 48	16 34	1 49	16 14	0 20	24 51	1 33	21 44	1 42	18 40	0 54	14 6	1 12	23 43	0 14	22 2	1 14	13 16	9 23	7 31	7 58	18 45	12 15	0 34			
T 13	18 4	11 16	0 44	16 48	0 13	24 56	1 35	21 34	1 41	18 38	0 54	14 6	1 12	23 43	0 14	22 2	1 14	13 16	9 23	7 31	7 59	18 48	12 17	0 34			
F 14	18 20	5 40	0s21	17 21	0 6	25 1	1 37	21 23	1 40	18 36	0 54	14 5	1 13	23 43	0 14	22 2	1 14	13 16	9 23	7 31	8 0	18 51	12 20	0 34			
S 15	18 35	0s 2	1 24	17 53	0s 1	25 6	1 39	21 11	1 39	18 34	0 54	14 4	1 13	23 43	0 14	22 2	1 14	13 15	9 23	7 32	8 1	18 53	12 22	0 35			
S 16	18 50	5 40	2 22	18 25	0 7	25 9	1 41	21 0	1 38	18 31	0 54	14 4	1 13	23 43	0 14	22 2	1 14	13 15	9 23	7 33	8 2	18 56	12 25	0 35			
M17	19 5	11 4	3 14	18 56	0 14	25 12	1 43	20 48	1 37	18 29	0 54	14 3	1 13	23 43	0 14	22 2	1 14	13 15	9 23	7 35	8 3	18 58	12 27	0 35			
T 18	19 19	16 3	3 57	19 25	0 21	25 14	1 45	20 37	1 36	18 27	0 54	14 3	1 14	23 43	0 14	22 2	1 14	13 15	9 23	7 39	8 5	19 1	12 30	0 35			
W19	19 34	20 27	4 30	19 54	0 27	25 15	1 47	20 25	1 35	18 24	0 54	14 2	1 14	23 43	0 14	22 3	1 14	13 15	9 23	7 44	8 6	19 3	12 32	0 36			
T 20	19 47	24 3	4 51	20 22	0 34	25 16	1 48	20 12	1 34	18 22	0 54	14 2	1 14	23 43	0 14	22 3	1 14	13 15	9 23	7 49	8 7	19 6	12 34	0 36			
F 21	20 1	26 38	4 59	20 49	0 40	25 16	1 50	20 0	1 33	18 20	0 54	14 1	1 14	23 43	0 14	22 3	1 14	13 15	9 23	7 54	8 8	19 9	12 37	0 36			
S 22	20 14	28 1	4 55	21 15	0 46	25 15	1 51	19 47	1 32	18 17	0 54	14 1	1 14	23 43	0 14	22 3	1 14	13 14	9 23	8 0	8 9	19 11	12 39	0 37			
S 23	20 26	28 4	4 36	21 39	0 52	25 13	1 53	19 35	1 31	18 15	0 54	14 1	1 15	23 43	0 14	22 3	1 14	13 14	9 23	8 5	8 11	19 14	12 42	0 37			
M24	20 39	26 44	4 5	22 3	0 58	25 10	1 54	19 22	1 30	18 12	0 54	14 0	1 15	23 43	0 14	22 3	1 14	13 14	9 23	8 9	8 12	19 16	12 44	0 37			
T 25	20 51	24 3	3 21	22 26	1 4	25 7	1 55	19 9	1 29	18 9	0 54	14 0	1 15	23 43	0 14	22 3	1 14	13 14	9 23	8 11	8 13	19 19	12 46	0 38			
W26	21 2	20 10	2 27	22 47	1 10	25 3	1 57	18 55	1 28	18 7	0 53	14 0	1 15	23 43	0 14	22 4	1 14	13 14	9 23	8 13	8 14	19 21	12 49	0 38			
T 27	21 13	15 15	1 24	23 8	1 15	24 58	1 58	18 42	1 27	18 4	0 53	14 0	1 16	23 43	0 14	22 4	1 14	13 14	9 23	8 13	8 15	19 24	12 51	0 38			
F 28	21 24	9 32	0 15	23 27	1 21	24 53	1 59	18 28	1 26	18 1	0 53	14 0	1 16	23 43	0 14	22 4	1 14	13 14	9 23	8 14	8 17	19 26	12 53	0 39			
S 29	21 34	3 12	0n57	23 45	1 26	24 47	2 0	18 14	1 25	17 59	0 53	13 59	1 16	23 43	0 14	22 4	1 14	13 14	9 23	8 14	8 18	19 29	12 55	0 39			
S 30	21s44	3n26	2n 7	24s 2	1s31	24s40	2s 1	18s 0	1s24	17s56	0s53	13n59	1n16	23s43	0s14	22s 4	1n14	13n14	9s23	8s14	8s19	19s31	12s58	0n39			

ASTRODIENST EPHEMERIS for the year 1653

geocentric

DECEMBER 1653 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 40 49	9♂18'53	18♂12	15♂33	16♂1	14♂44	12♂42	26♂15	29♂41	22♂54	14♂R10	8♂R53	8♂40	11♂14	6♂13	M 1
T 2	4 44 46	10♂19'49	3♂0	17♂7	17♂14	15♂29	12♂52	26♂16	29♂45	22♂56	14♂II 9	8♂46	8♂37	11♂21	6♂21	T 2
W 3	4 48 42	11♂20'46	18♂4	18♂41	18♂27	16♂14	13♂2	26♂16	29♂48	22♂58	14♂8	8♂37	8♂34	11♂27	6♂28	W 3
T 4	4 52 39	12♂21'44	3♂II 5	20♂14	19♂40	16♂59	13♂12	26♂17	29♂52	23♂1	14♂6	8♂26	8♂30	11♂34	6♂36	T 4
F 5	4 56 35	13♂22'43	18♂22	21♂48	20♂53	17♂44	13♂22	26♂17	29♂55	23♂3	14♂5	8♂14	8♂27	11♂41	6♂43	F 5
S 6	5 0 32	14♂23'42	3♂III 6	23♂22	22♂6	18♂30	13♂33	26♂17	29♂59	23♂5	14♂4	8♂3	8♂24	11♂47	6♂51	S 6
S 7	5 4 28	15♂24'43	17♂46	24♂56	23♂18	19♂15	13♂44	26♂R17	0♂2	23♂7	14♂3	7♂53	8♂21	11♂54	6♂58	S 7
M 8	5 8 25	16♂25'44	1♂II 9	26♂30	24♂31	20♂0	13♂54	26♂17	0♂6	23♂10	14♂2	7♂46	8♂18	12♂1	7♂5	M 8
T 9	5 12 22	17♂26'46	15♂22	28♂4	25♂44	20♂45	14♂5	26♂17	0♂9	23♂12	14♂1	7♂42	8♂14	12♂8	7♂13	T 9
W10	5 16 18	18♂27'50	28♂27	29♂38	26♂56	21♂30	14♂16	26♂16	0♂13	23♂14	14♂0	7♂41	8♂11	12♂14	7♂20	W10
T 11	5 20 15	19♂28'54	11♂II 6	1♂12	28♂9	22♂16	14♂27	26♂16	0♂16	23♂16	13♂58	7♂D40	8♂8	12♂21	7♂27	T 11
F 12	5 24 11	20♂29'59	23♂25	2♂45	29♂21	23♂1	14♂38	26♂15	0♂20	23♂19	13♂57	7♂R40	8♂5	12♂28	7♂34	F 12
S 13	5 28 8	21♂31'05	5♂II 29	4♂19	0♂34	23♂46	14♂49	26♂15	0♂23	23♂21	13♂56	7♂40	8♂2	12♂34	7♂41	S 13
S 14	5 32 4	22♂32'12	17♂23	5♂52	1♂46	24♂31	15♂1	26♂14	0♂27	23♂23	13♂55	7♂37	7♂59	12♂41	7♂48	S 14
M15	5 36 1	23♂33'20	29♂12	7♂25	2♂58	25♂17	15♂12	26♂13	0♂31	23♂25	13♂54	7♂31	7♂55	12♂48	7♂55	M15
T 16	5 39 57	24♂34'28	11♂II 2	8♂58	4♂10	26♂2	15♂24	26♂12	0♂34	23♂28	13♂53	7♂23	7♂52	12♂54	8♂2	T 16
W17	5 43 54	25♂35'37	22♂54	10♂30	5♂22	26♂47	15♂35	26♂11	0♂38	23♂30	13♂51	7♂12	7♂49	13♂1	8♂8	W17
T 18	5 47 51	26♂36'47	4♂II 53	12♂2	6♂35	27♂32	15♂47	26♂10	0♂41	23♂32	13♂50	6♂59	7♂46	13♂8	8♂15	T 18
F 19	5 51 47	27♂37'57	16♂59	13♂33	7♂47	28♂18	15♂59	26♂9	0♂45	23♂34	13♂49	6♂46	7♂43	13♂15	8♂22	F 19
S 20	5 55 44	28♂39'08	29♂15	15♂3	8♂59	29♂3	16♂11	26♂7	0♂49	23♂37	13♂48	6♂32	7♂40	13♂21	8♂28	S 20
S 21	5 59 40	29♂40'19	11♂III 39	16♂32	10♂10	29♂48	16♂23	26♂6	0♂52	23♂39	13♂47	6♂20	7♂36	13♂28	8♂35	S 21
M22	6 3 37	0♂41'30	24♂14	18♂0	11♂22	0♂34	16♂35	26♂4	0♂56	23♂41	13♂46	6♂11	7♂33	13♂35	8♂41	M22
T 23	6 7 33	1♂42'41	6♂III 58	19♂26	12♂34	1♂19	16♂47	26♂2	0♂59	23♂44	13♂45	6♂4	7♂30	13♂41	8♂48	T 23
W24	6 11 30	2♂43'53	19♂53	20♂51	13♂45	2♂4	16♂59	26♂0	1♂3	23♂46	13♂44	6♂1	7♂27	13♂48	8♂54	W24
T 25	6 15 26	3♂45'04	3♂II 1	22♂13	14♂57	2♂49	17♂11	25♂58	1♂7	23♂48	13♂43	5♂D59	7♂24	13♂55	9♂0	T 25
F 26	6 19 23	4♂46'15	16♂22	23♂32	16♂8	3♂35	17♂24	25♂56	1♂10	23♂50	13♂41	6♂0	7♂20	14♂2	9♂6	F 26
S 27	6 23 20	5♂47'26	29♂58	24♂48	17♂20	4♂20	17♂36	25♂54	1♂14	23♂53	13♂40	6♂R 0	7♂17	14♂8	9♂12	S 27
S 28	6 27 16	6♂48'36	13♂II 51	26♂0	18♂31	5♂5	17♂49	25♂52	1♂18	23♂55	13♂39	6♂0	7♂14	14♂15	9♂18	S 28
M29	6 31 13	7♂49'47	28♂2	27♂8	19♂42	5♂51	18♂2	25♂50	1♂21	23♂57	13♂38	5♂58	7♂11	14♂22	9♂24	M29
T 30	6 35 9	8♂50'57	12♂III 28	28♂11	20♂53	6♂36	18♂14	25♂47	1♂25	23♂59	13♂37	5♂54	7♂8	14♂28	9♂30	T 30
W31	6 39 6	9♂52'06	27♂II 7	29♂8	22♂4	7♂II 21	18♂27	25♂II 44	1♂28	24♂I 1	13♂II 36	5♂II 48	7♂II 5	14♂II 35	9♂II 36	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	21s53	10n 5	3n11	24s17	1s36	24s32	2s 2	17s46	1s23	17s53	0s53	13n59	1n16	23s43	0s14	22s 4
T 2	22 2	16 21	4 4	24 32	1 40	24 24	2 2	17 32	1 22	17 50	0 53	13 59	1 17	23 43	0 14	22 4
W 3	22 11	21 44	4 41	24 45	1 45	24 14	2 3	17 17	1 21	17 47	0 53	13 59	1 17	23 43	0 14	22 4
T 4	22 19	25 44	4 59	24 56	1 49	24 5	2 3	17 2	1 20	17 44	0 53	14 0	1 17	23 43	0 14	22 5
F 5	22 27	27 53	4 55	25 7	1 53	23 54	2 4	16 48	1 19	17 41	0 53	14 0	1 17	23 43	0 14	22 5
S 6	22 34	27 58	4 32	25 15	1 56	23 43	2 4	16 33	1 18	17 38	0 53	14 0	1 18	23 43	0 14	22 5
S 7	22 41	26 7	3 51	25 23	2 0	23 31	2 5	16 18	1 17	17 35	0 53	14 0	1 18	23 43	0 14	22 5
M 8	22 48	22 40	2 57	25 29	2 3	23 18	2 5	16 2	1 16	17 32	0 53	14 0	1 18	23 43	0 14	22 5
T 9	22 54	18 5	1 55	25 34	2 5	23 5	2 5	15 47	1 15	17 29	0 53	14 1	1 18	23 43	0 14	22 5
W10	22 59	12 48	0 49	25 37	2 8	22 51	2 5	15 31	1 13	17 25	0 53	14 1	1 18	23 43	0 14	22 5
T 11	23 4	7 8	0s18	25 39	2 10	22 37	2 5	15 16	1 12	17 22	0 53	14 1	1 19	23 43	0 14	22 6
F 12	23 9	1 22	1 22	25 39	2 11	22 22	2 5	15 0	1 11	17 19	0 53	14 2	1 19	23 43	0 14	22 6
S 13	23 13	4s21	2 22	25 38	2 13	22 6	2 5	14 44	1 10	17 15	0 52	14 2	1 19	23 43	0 14	22 6
S 14	23 17	9 49	3 14	25 35	2 14	21 49	2 4	14 28	1 9	17 12	0 52	14 3	1 19	23 43	0 14	22 6
M15	23 20	14 54	3 57	25 30	2 14	21 32	2 4	14 12	1 8	17 9	0 52	14 3	1 20	23 43	0 14	22 6
T 16	23 23	19 26	4 30	25 24	2 14	21 15	2 3	13 55	1 7	17 5	0 52	14 4	1 20	23 43	0 14	22 6
W17	23 25	23 14	4 52	25 17	2 13	20 57	2 3	13 39	1 6	17 2	0 52	14 4	1 20	23 43	0 14	22 6
T 18	23 27	26 5	5 1	25 8	2 12	20 38	2 2	13 22	1 5	16 58	0 52	14 5	1 20	23 43	0 14	22 6
F 19	23 28	27 46	4 56	24 57	2 10	20 19	2 1	13 6	1 4	16 55	0 52	14 5	1 20	23 43	0 14	22 6
S 20	23 29	28 7	4 38	24 45	2 8	19 59	2 0	12 49	1 3	16 51	0 52	14 6	1 21	23 43	0 14	22 7
S 21	23 29	27 4	4 7	24 31	2 5	19 38	1 59	12 32	1 2	16 47	0 52	14 7	1 21	23 43	0 14	22 7
M22	23 29	24 38	3 23	24 16	2 1	19 17	1 58	12 15	1 1	16 44	0 52	14 8	1 21	23 43	0 14	22 7
T 23	23 29	20 57	2 28	24 0	1 56	18 56	1 57	11 58	1 0	16 40	0 52	14 8	1 21	23 43	0 14	22 7
W24	23 27	16 13	1 25	23 42	1 51	18 34	1 55	11 41	0 59	16 36	0 52	14 9	1 22	23 43	0 14	22 7
T 25	23 26	10 40	0 16	23 23	1 45	18 12	1 54	11 23	0 58	16 32	0 52	14 10	1 22	23 43	0 14	22 7
F 26	23 24	4 33	0n55	23 3	1 38	17 49	1 52	11 6	0 57	16 29	0 52	14 11	1 22	23 43	0 14	22 7
S 27	23 22	1n53	2 4	22 41	1 30	17 26	1 51	10 49	0 56	16 25	0 52	14 12	1 22	23 43	0 14	22 7
S 28	23 19	8 21	3 8	22 19	1 21	17 2	1 49	10 31	0 55	16 21	0 52	14 13	1 22	23 43	0 14	22 7
M29	23 15	14 32	4 1	21 56	1 11	16 38	1 47	10 13	0 54	16 17	0 52	14 14	1 23	23 43	0 14	22 8
T 30	23 11	20 3	4 40	21 33	1 0	16 13	1 45	9 56	0 53	16 13	0 52	14 15	1 23	23 43	0 14	22 8
W31	23s 7	24n26	5n 2	21s10	0s48	15s48	1s43	9s38	0s52	16s 9	0s52	14n16	1n23	23s43	0s14	22s 8

Julian Day Number = 2325140.5, Delta T = 40.58 sec
 Ecliptic obliquity = 23°29'12", Nutation = 0°00'05", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°54'35", Lahiri = 19°01'35"Greg. Calendar