



Astrodienst Ephemeris Tables for the year 2148

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 2148
geocentric

JANUARY 2148

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	6 40 29	9♌56'28	9♋27	24°R38	21♊57	11♌28	6♎ 2	23°R13	26♎17	29♌52	18°R47	21°R21	22♏36	15♎13	10♎47	M 1
T 2	6 44 25	10°57'35	23° 3	24♌11	23° 8	12°10	6°10	23♌11	26°20	29°54	18♎46	21♏15	22°33	15°20	10°52	T 2
W 3	6 48 22	11°58'43	6♎29	23°33	24°18	12°52	6°19	23° 8	26°23	29°57	18°45	21° 9	22°30	15°26	10°58	W 3
T 4	6 52 18	12°59'51	19°42	22°44	25°29	13°34	6°27	23° 6	26°26	29°59	18°44	21° 2	22°27	15°33	11° 4	T 4
F 5	6 56 15	14° 0'59	2♌42	21°44	26°40	14°17	6°36	23° 4	26°29	0♌ 1	18°43	20°55	22°24	15°40	11° 9	F 5
S 6	7 0 11	15° 2'06	15°28	20°35	27°50	14°59	6°44	23° 2	26°32	0° 3	18°42	20°50	22°20	15°46	11°15	S 6
S 7	7 4 8	16° 3'14	27°59	19°20	29° 1	15°42	6°52	23° 0	26°35	0° 6	18°41	20°46	22°17	15°53	11°20	S 7
M 8	7 8 5	17° 4'22	10♏17	18° 1	0♎11	16°24	7° 0	22°58	26°37	0° 8	18°40	20°44	22°14	16° 0	11°26	M 8
T 9	7 12 1	18° 5'30	22°22	16°40	1°21	17° 7	7° 8	22°56	26°40	0°10	18°39	20°D43	22°11	16° 6	11°31	T 9
W10	7 15 58	19° 6'37	4♎18	15°20	2°31	17°49	7°15	22°55	26°43	0°12	18°38	20°44	22° 8	16°13	11°36	W10
T 11	7 19 54	20° 7'45	16° 8	14° 3	3°41	18°32	7°23	22°53	26°45	0°14	18°37	20°45	22° 4	16°20	11°41	T 11
F 12	7 23 51	21° 8'53	27°56	12°52	4°51	19°14	7°30	22°52	26°48	0°16	18°36	20°47	22° 1	16°26	11°46	F 12
S 13	7 27 47	22°10'01	9♎47	11°49	6° 1	19°57	7°38	22°50	26°50	0°19	18°35	20°49	21°58	16°33	11°51	S 13
S 14	7 31 44	23°11'09	21°45	10°54	7°10	20°40	7°45	22°49	26°53	0°21	18°34	20°R50	21°55	16°40	11°56	S 14
M15	7 35 40	24°12'16	3♎55	10° 8	8°20	21°23	7°52	22°48	26°55	0°23	18°33	20°49	21°52	16°46	12° 0	M15
T 16	7 39 37	25°13'24	16°23	9°32	9°29	22° 5	7°59	22°47	26°58	0°25	18°32	20°48	21°49	16°53	12° 5	T 16
W17	7 43 34	26°14'32	29°13	9° 6	10°38	22°48	8° 5	22°46	27° 0	0°27	18°31	20°45	21°45	17° 0	12° 9	W17
T 18	7 47 30	27°15'40	12♌27	8°49	11°47	23°31	8°12	22°45	27° 2	0°29	18°31	20°41	21°42	17° 6	12°14	T 18
F 19	7 51 27	28°16'47	26° 6	8°D42	12°55	24°14	8°18	22°45	27° 5	0°31	18°30	20°38	21°39	17°13	12°18	F 19
S 20	7 55 23	29°17'54	10♌ 9	8°43	14° 4	24°57	8°25	22°44	27° 7	0°33	18°29	20°35	21°36	17°20	12°22	S 20
S 21	7 59 20	0♎19'01	24°34	8°53	15°12	25°40	8°31	22°44	27° 9	0°35	18°28	20°32	21°33	17°26	12°26	S 21
M22	8 3 16	1°20'07	9♎14	9° 9	16°21	26°23	8°37	22°43	27°11	0°37	18°27	20°31	21°30	17°33	12°30	M22
T 23	8 7 13	2°21'13	24° 2	9°33	17°29	27° 6	8°43	22°43	27°13	0°39	18°26	20°D31	21°26	17°40	12°34	T 23
W24	8 11 10	3°22'17	8♎51	10° 2	18°36	27°49	8°48	22°D43	27°15	0°41	18°26	20°31	21°23	17°46	12°38	W24
T 25	8 15 6	4°23'21	23°34	10°38	19°44	28°32	8°54	22°43	27°17	0°43	18°25	20°32	21°20	17°53	12°42	T 25
F 26	8 19 3	5°24'24	8♎ 5	11°18	20°51	29°15	8°59	22°43	27°19	0°45	18°24	20°34	21°17	18° 0	12°45	F 26
S 27	8 22 59	6°25'26	22°21	12° 3	21°59	29°58	9° 4	22°43	27°21	0°47	18°23	20°34	21°14	18° 6	12°49	S 27
S 28	8 26 56	7°26'27	6♎20	12°52	23° 5	0♌42	9° 9	22°44	27°23	0°49	18°23	20°R35	21°10	18°13	12°52	S 28
M29	8 30 52	8°27'27	20° 0	13°45	24°12	1°25	9°14	22°44	27°25	0°51	18°22	20°35	21° 7	18°20	12°55	M29
T 30	8 34 49	9°28'25	3♎23	14°41	25°19	2° 8	9°19	22°45	27°27	0°53	18°21	20°34	21° 4	18°26	12°59	T 30
W31	8 38 45	10°29'23	16♎30	15♌40	26♎25	2♌51	9♎23	22♌46	27♎28	0♌55	18♎21	20♏33	21♏ 1	18♎33	13♎ 2	W31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	23s 3	9n50	5s 3	20s39	0n33	15s56	1s51	22s12	0s 4	12s25	1n11	16n22	2s16	19s 3	0n16	22s14	1n11	13n14	9s45	14n22	13n58	7n39	14s34	0n30
T 2	22 58	13 31	5 10	20 24	0 52	15 31	1 49	22 18	0 5	12 27	1 11	16 22	2 15	19 4	0 16	22 14	1 11	13 14	9 44	14 24	13 59	7 37	14 35	0 31
W 3	22 53	16 27	4 59	20 12	1 11	15 5	1 47	22 25	0 5	12 30	1 11	16 22	2 15	19 4	0 16	22 14	1 11	13 14	9 44	14 26	14 0	7 35	14 37	0 31
T 4	22 47	18 29	4 32	20 1	1 31	14 39	1 45	22 30	0 6	12 33	1 11	16 21	2 15	19 5	0 16	22 14	1 11	13 14	9 44	14 28	14 1	7 33	14 38	0 31
F 5	22 41	19 31	3 52	19 51	1 50	14 13	1 43	22 36	0 7	12 35	1 11	16 21	2 15	19 6	0 16	22 14	1 11	13 14	9 44	14 31	14 2	7 32	14 40	0 32
S 6	22 34	19 32	3 1	19 44	2 8	13 47	1 40	22 42	0 7	12 38	1 11	16 21	2 14	19 6	0 16	22 14	1 11	13 14	9 44	14 32	14 3	7 30	14 41	0 32
S 7	22 27	18 34	2 1	19 38	2 25	13 20	1 38	22 47	0 8	12 40	1 11	16 20	2 14	19 7	0 16	22 14	1 11	13 14	9 44	14 34	14 4	7 28	14 42	0 32
M 8	22 20	16 44	0 57	19 34	2 40	12 53	1 35	22 52	0 9	12 43	1 12	16 20	2 14	19 8	0 16	22 14	1 11	13 14	9 44	14 34	14 5	7 26	14 44	0 33
T 9	22 12	14 11	0n 9	19 31	2 53	12 26	1 33	22 57	0 9	12 45	1 12	16 20	2 14	19 8	0 16	22 14	1 11	13 14	9 43	14 34	14 6	7 24	14 45	0 33
W10	22 3	11 4	1 14	19 30	3 3	11 58	1 30	23 2	0 10	12 47	1 12	16 20	2 13	19 9	0 16	22 14	1 11	13 15	9 43	14 34	14 7	7 22	14 46	0 34
T 11	21 55	7 32	2 15	19 30	3 12	11 30	1 27	23 6	0 11	12 50	1 12	16 20	2 13	19 10	0 16	22 14	1 11	13 15	9 43	14 34	14 8	7 21	14 47	0 34
F 12	21 45	3 44	3 10	19 32	3 17	11 2	1 24	23 10	0 11	12 52	1 12	16 20	2 13	19 10	0 16	22 14	1 11	13 15	9 43	14 33	14 9	7 19	14 48	0 34
S 13	21 36	0s14	3 58	19 34	3 20	10 33	1 21	23 14	0 12	12 54	1 12	16 20	2 13	19 11	0 16	22 14	1 11	13 15	9 43	14 33	14 10	7 17	14 50	0 35
S 14	21 26	4 12	4 35	19 38	3 21	10 5	1 18	23 18	0 13	12 56	1 13	16 20	2 12	19 11	0 16	22 14	1 11	13 15	9 43	14 32	14 11	7 15	14 51	0 35
M15	21 15	8 5	5 1	19 43	3 20	9 36	1 15	23 22	0 13	12 58	1 13	16 20	2 12	19 12	0 16	22 14	1 11	13 15	9 43	14 32	14 12	7 13	14 52	0 35
T 16	21 4	11 42	5 14	19 49	3 16	9 6	1 11	23 25	0 14	13 0	1 13	16 20	2 12	19 12	0 16	22 14	1 11	13 15	9 42	14 33	14 13	7 11	14 53	0 36
W17	20 53	14 54	5 11	19 55	3 12	8 37	1 8	23 28	0 15	13 2	1 13	16 20	2 11	19 13	0 16	22 14	1 11	13 15	9 42	14 34	14 15	7 9	14 54	0 36
T 18	20 41	17 26	4 53	20 2	3 6	8 8	1 4	23 31	0 15	13 4	1 13	16 20	2 11	19 13	0 16	22 14	1 11	13 15	9 42	14 35	14 16	7 8	14 55	0 37
F 19	20 29	19 5	4 17	20 10	2 58	7 38	1 0	23 34	0 16	13 6	1 14	16 20	2 11	19 14	0 16	22 14	1 11	13 15	9 42	14 36	14 17	7 6	14 56	0 37
S 20	20 17	19 38	3 25	20 18	2 50	7 8	0 57	23 36	0 17	13 8	1 14	16 20	2 11	19 14	0 16	22 14	1 11	13 15	9 42	14 37	14 18	7 4	14 57	0 37
S 21	20 4	18 55	2 19	20 26	2 42	6 38	0 53	23 38	0 18	13 10	1 14	16 20	2 10	19 15	0 16	22 14	1 11	13 16	9 41	14 38	14 19	7 2	14 57	0 38
M22	19 51	16 56	1 2	20 34	2 32	6 8	0 49	23 40	0 18	13 11	1 14	16 20	2 10	19 15	0 16	22 14	1 11	13 16	9 41	14 38	14 20	7 0	14 58	0 38
T 23	19 37	13 48	0s19	20 42	2 23	5 38	0 45	23 42	0 19	13 13	1 14	16 21	2 10	19 16	0 16	22 14	1 11	13 16	9 41	14 38	14 21	6 58	14 59	0 39
W24	19 23	9 47	1 40	20 50	2 13	5 7	0 40	23 44	0 20	13 15	1 14	16 21	2 9	19 16	0 16	22 14	1 11	13 16	9 41	14 38	14 22	6 56	15 0	0 39
T 25	19 9	5 12	2 53	20 58	2 2	4 37	0 36	23 45	0 20	13 16	1 15	16 21	2 9	19 17	0 16	22 14	1 11	13 16	9 41	14 38	14 23	6 54	15 1	0 39
F 26	18 54	0 23	3 54	21 5	1 52	4 6	0 32	23 46	0 21	13 18	1 15	16 21	2 9	19 17	0 16	22 14	1 11	13 16	9 41	14 37	14 24	6 53	15 1	0 40
S 27	18 39	4n22	4 40	21 11	1 42	3 36	0 27	23 47	0 22	13 19	1 15	16 22	2 9	19 18	0 16	22 14	1 11	13 16	9 40	14 37	14 25	6 51	15 2	0 40
S 28	18 24	8 47	5 7	21 17	1 31	3 5	0 22	23 48	0 23	13 21	1 15	16 22	2 8	19 18	0 16	22 14	1 11	13 17	9 40	14 37	14 26	6 49	15 3	0 41
M29	18 8	12 38	5 17	21 22	1 21	2 34	0 18	23 48	0 23	13 22	1 15	16 23	2 8	19 19	0 16	22 14	1 11	13 17	9 40	14 37	14 27	6 47	15 3	0 41
T 30	17 52	15 45	5 9	21 26	1 11	2 4	0 13	23 48	0 24	13 23	1 16	16 23	2 8	19 19	0 16	22 14	1 11	13 17	9 40	14 37	14 28	6 45	15 4	0 41
W31	17s36	18n 0	4s45	21s30	1n 1	1s33	0s 8	23s48	0s25	13s25	1n16	16n23	2s 7	19s19	0n16	22s14	1n11	13n17	9s40	14n38	14n29	6n43	15s 4	0n42

ASTRODIENST EPHEMERIS for the year 2148
geocentric

FEBRUARY 2148

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 42	11°30'19	29°11'21	16°34'42	27°31'31	3°35'35	9°18'28	22°28'46	27°18'30	0°57'57	18°20'20	20°R31	20°Ω58	18°18'40	13°18'5	T 1
F 2	8 46 39	12°31'14	11°58'58	17°47'47	28°37'37	4°18'18	9°32'32	22°47'47	27°31'31	0°58'58	18°11'19	20°Ω30	20°55'55	18°46'46	13°7'7	F 2
S 3	8 50 35	13°32'09	24°24'24	18°54'54	29°42'42	5°2'2	9°36'36	22°48'48	27°33'33	1°0'0	18°19'19	20°29'29	20°51'51	18°53'53	13°10'10	S 3
S 4	8 54 32	14°33'02	6°Ω39	20°3'3	0°Y47	5°45'45	9°40'40	22°49'49	27°35'35	1°2'2	18°18'18	20°29'29	20°48'48	19°0'0	13°13'13	S 4
M 5	8 58 28	15°33'54	18°44'44	21°14'14	1°52'52	6°28'28	9°43'43	22°51'51	27°36'36	1°4'4	18°18'18	20°D28	20°45'45	19°6'6	13°15'15	M 5
T 6	9 2 25	16°34'44	0°11'42	22°27'27	2°57'57	7°12'12	9°47'47	22°52'52	27°37'37	1°5'5	18°17'17	20°28'28	20°42'42	19°13'13	13°17'17	T 6
W 7	9 6 21	17°35'34	12°35'35	23°41'41	4°1'1	7°56'56	9°50'50	22°54'54	27°39'39	1°7'7	18°16'16	20°29'29	20°39'39	19°20'20	13°20'20	W 7
T 8	9 10 18	18°36'23	24°24'24	24°57'57	5°5'5	8°39'39	9°53'53	22°55'55	27°40'40	1°9'9	18°16'16	20°29'29	20°36'36	19°26'26	13°22'22	T 8
F 9	9 14 14	19°37'11	6°Ω13	26°15'15	6°9'9	9°23'23	9°56'56	22°57'57	27°41'41	1°11'11	18°15'15	20°29'29	20°32'32	19°33'33	13°24'24	F 9
S 10	9 18 11	20°37'57	18°4'4	27°34'34	7°12'12	10°6'6	9°59'59	22°59'59	27°42'42	1°12'12	18°15'15	20°R29	20°29'29	19°40'40	13°26'26	S 10
S 11	9 22 7	21°38'43	0°18'2	28°54'54	8°15'15	10°50'50	10°2'2	23°1'1	27°44'44	1°14'14	18°15'15	20°29'29	20°26'26	19°46'46	13°28'28	S 11
M12	9 26 4	22°39'28	12°11'11	0°Ω16	9°17'17	11°34'34	10°4'4	23°3'3	27°45'45	1°15'15	18°14'14	20°29'29	20°23'23	19°53'53	13°29'29	M12
T 13	9 30 1	23°40'12	24°35'35	1°39'39	10°20'20	12°18'18	10°6'6	23°5'5	27°46'46	1°17'17	18°14'14	20°D29	20°20'20	20°0'0	13°31'31	T 13
W14	9 33 57	24°40'55	7°11'19	3°2'2	11°22'22	13°1'1	10°8'8	23°7'7	27°47'47	1°18'18	18°13'13	20°29'29	20°16'16	20°6'6	13°32'32	W14
T 15	9 37 54	25°41'36	20°26'26	4°27'27	12°23'23	13°45'45	10°10'10	23°9'9	27°48'48	1°20'20	18°13'13	20°29'29	20°13'13	20°13'13	13°34'34	T 15
F 16	9 41 50	26°42'17	3°35'59	5°53'53	13°24'24	14°29'29	10°12'12	23°12'12	27°48'48	1°21'21	18°13'13	20°30'30	20°10'10	20°19'19	13°35'35	F 16
S 17	9 45 47	27°42'57	17°59'59	7°20'20	14°25'25	15°13'13	10°14'14	23°14'14	27°49'49	1°23'23	18°12'12	20°31'31	20°7'7	20°26'26	13°36'36	S 17
S 18	9 49 43	28°43'35	2°Ω25	8°48'48	15°25'25	15°57'57	10°15'15	23°17'17	27°50'50	1°24'24	18°12'12	20°31'31	20°4'4	20°33'33	13°37'37	S 18
M19	9 53 40	29°44'12	17°13'13	10°17'17	16°25'25	16°41'41	10°16'16	23°20'20	27°51'51	1°26'26	18°12'12	20°R32	20°1'1	20°39'39	13°38'38	M19
T 20	9 57 36	0°14'48	2°11'16	11°47'47	17°24'24	17°25'25	10°17'17	23°23'23	27°51'51	1°27'27	18°11'11	20°31'31	19°57'57	20°46'46	13°38'38	T 20
W21	10 1 33	1°45'22	17°26'26	13°18'18	18°23'23	18°9'9	10°18'18	23°26'26	27°52'52	1°29'29	18°11'11	20°31'31	19°54'54	20°53'53	13°39'39	W21
T 22	10 5 30	2°45'54	2°Y32	14°50'50	19°22'22	18°53'53	10°18'18	23°29'29	27°53'53	1°30'30	18°11'11	20°29'29	19°51'51	20°59'59	13°40'40	T 22
F 23	10 9 26	3°46'25	17°27'27	16°23'23	20°19'19	19°37'37	10°19'19	23°32'32	27°53'53	1°31'31	18°11'11	20°28'28	19°48'48	21°6'6	13°40'40	F 23
S 24	10 13 23	4°46'54	2°13'3	17°57'57	21°17'17	20°21'21	10°R19	23°35'35	27°53'53	1°32'32	18°11'11	20°26'26	19°45'45	21°13'13	13°40'40	S 24
S 25	10 17 19	5°47'21	16°15'15	19°32'32	22°14'14	21°5'5	10°19'19	23°39'39	27°54'54	1°34'34	18°11'11	20°25'25	19°41'41	21°19'19	13°40'40	S 25
M26	10 21 16	6°47'46	0°11'2	21°7'7	23°10'10	21°49'49	10°18'18	23°42'42	27°54'54	1°35'35	18°10'10	20°24'24	19°38'38	21°26'26	13°R40	M26
T 27	10 25 12	7°48'09	13°24'24	22°44'44	24°6'6	22°33'33	10°18'18	23°46'46	27°54'54	1°36'36	18°10'10	20°D24	19°35'35	21°33'33	13°40'40	T 27
W28	10 29 9	8°48'30	26°23'23	24°22'22	25°1'1	23°17'17	10°18'18	23°49'49	27°55'55	1°37'37	18°10'10	20°25'25	19°32'32	21°39'39	13°40'40	W28
T 29	10 33 5	9°48'50	9°Ω2	26°Ω0	25°Y55	24°3'2	10°18'17	23°53'53	27°55'55	1°38'38	18°10'10	20°Ω26	19°Ω29	21°18'46	13°18'40	T 29

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s19	19n18	4s 7	21s32	0n51	1s 2	0s 3	23s48	0s26	13s26	1n16	16n24	2s 7	19s20	0n16	22s14	1n11	13n17	9s39	14n38	14n30	6n41	15s 5	0n42			
F 2	17 2	19 36	3 18	21 34	0 41	0 31	0n 2	23 47	0 26	13 27	1 16	16 24	2 7	19 20	0 16	22 14	1 11	13 17	9 39	14 39	14 31	6 39	15 5	0 43			
S 3	16 45	18 55	2 20	21 34	0 31	0 1	0 7	23 46	0 27	13 28	1 16	16 25	2 6	19 20	0 16	22 14	1 11	13 17	9 39	14 39	14 32	6 37	15 6	0 43			
S 4	16 27	17 22	1 16	21 34	0 22	0n30	0 12	23 45	0 28	13 29	1 17	16 26	2 6	19 21	0 16	22 14	1 11	13 18	9 39	14 39	14 33	6 36	15 6	0 43			
M 5	16 9	15 3	0 10	21 32	0 13	1 1	0 18	23 44	0 28	13 30	1 17	16 26	2 6	19 21	0 16	22 14	1 11	13 18	9 38	14 39	14 34	6 34	15 6	0 44			
T 6	15 51	12 6	0n57	21 30	0 3	1 32	0 23	23 43	0 29	13 31	1 17	16 27	2 6	19 21	0 16	22 14	1 11	13 18	9 38	14 39	14 35	6 32	15 7	0 44			
W 7	15 33	8 41	2 0	21 26	0s 5	2 2	0 29	23 41	0 30	13 32	1 17	16 27	2 5	19 22	0 16	22 14	1 11	13 18	9 38	14 39	14 36	6 30	15 7	0 45			
T 8	15 14	4 57	2 58	21 21	0 14	2 33	0 34	23 39	0 31	13 32	1 17	16 28	2 5	19 22	0 16	22 14	1 11	13 18	9 38	14 39	14 37	6 28	15 7	0 45			
F 9	14 55	1 2	3 48	21 15	0 22	3 3	0 40	23 37	0 31	13 33	1 18	16 29	2 5	19 22	0 16	22 14	1 11	13 19	9 38	14 39	14 38	6 26	15 7	0 45			
S 10	14 36	2s56	4 29	21 7	0 30	3 33	0 46	23 34	0 32	13 34	1 18	16 30	2 4	19 22	0 16	22 14	1 11	13 19	9 37	14 39	14 39	6 24	15 8	0 46			
S 11	14 17	6 49	4 58	20 59	0 38	4 4	0 52	23 31	0 33	13 34	1 18	16 30	2 4	19 23	0 16	22 14	1 11	13 19	9 37	14 39	14 40	6 22	15 8	0 46			
M12	13 57	10 29	5 15	20 49	0 45	4 34	0 58	23 28	0 34	13 35	1 18	16 31	2 4	19 23	0 16	22 13	1 11	13 19	9 37	14 39	14 41	6 20	15 8	0 47			
T 13	13 37	13 46	5 17	20 38	0 53	5 4	1 4	23 25	0 34	13 36	1 19	16 32	2 4	19 23	0 16	22 13	1 11	13 19	9 37	14 39	14 42	6 18	15 8	0 47			
W14	13 17	16 30	5 4	20 26	1 0	5 34	1 10	23 22	0 35	13 36	1 19	16 33	2 3	19 23	0 16	22 13	1 11	13 20	9 36	14 39	14 43	6 17	15 8	0 48			
T 15	12 57	18 29	4 36	20 12	1 6	6 3	1 16	23 18	0 36	13 36	1 19	16 34	2 3	19 24	0 16	22 13	1 11	13 20	9 36	14 39	14 44	6 15	15 8	0 48			
F 16	12 36	19 31	3 51	19 57	1 13	6 33	1 22	23 14	0 37	13 37	1 19	16 34	2 3	19 24	0 16	22 13	1 11	13 20	9 36	14 39	14 45	6 13	15 8	0 48			
S 17	12 15	19 23	2 51	19 41	1 19	7 2	1 29	23 10	0 37	13 37	1 19	16 35	2 2	19 24	0 16	22 13	1 11	13 20	9 36	14 38	14 46	6 11	15 8	0 49			
S 18	11 54	18 0	1 39	19 24	1 24	7 31	1 35	23 6	0 38	13 37	1 20	16 36	2 2	19 24	0 16	22 13	1 11	13 20	9 35	14 38	14 47	6 9	15 8	0 49			
M19	11 33	15 22	0 18	19 5	1 30	8 0	1 41	23 1	0 39	13 37	1 20	16 37	2 2	19 24	0 16	22 13	1 11	13 21	9 35	14 38	14 48	6 7	15 8	0 50			
T 20	11 12	11 40	1s 5	18 45	1 35	8 29	1 48	22 57	0 40	13 37	1 20	16 38	2 2	19 24	0 16	22 13	1 11	13 21	9 35	14 38	14 49	6 5	15 7	0 50			
W21	10 50	7 10	2 24	18 24	1 40	8 58	1 54	22 52	0 41	13 37	1 20	16 39	2 1	19 25	0 16	22 13	1 11	13 21	9 35	14 38	14 50	6 3	15 7	0 51			
T 22	10 29	2 15	3 33	18 2	1 44	9 26	2 1	22 46	0 41	13 37	1 20	16 40	2 1	19 25	0 16	22 13	1 12	13 21	9 34	14 39	14 51	6 1	15 7	0 51			
F 23	10 7	2n45	4 26	17 38	1 48	9 54	2 8	22 41	0 42	13 37	1 21	16 41	2 1	19 25	0 16	22 13	1 12	13 21	9 34	14 39	14 52	5 59	15 7	0 51			
S 24	9 45	7 28	5 1	17 13	1 52	10 22	2 14	22 35	0 43	13 37	1 21	16 42	2 1	19 25	0 16	22 13	1 12	13 22	9 34	14 40	14 53	5 57	15 6	0 52			
S 25	9 23	11 38	5 16	16 47	1 56	10 50	2 21	22 29	0 44	13 37	1 21	16 43	2 0	19 25	0 16	22 13	1 12	13 22	9 34	14 40	14 54	5 55	15 6	0 52			
M26	9 1	15 3	5 12	16 19	1 59	11 17	2 28	22 23	0 44	13 37	1 21	16 45	2 0	19 25	0 16	22 13	1 12	13 22	9 33	14 41	14 55	5 53	15 5	0 53			
T 27	8 38	17 34	4 52	15 50	2 1	11 44	2 35	22 17	0 45	13 36	1 21	16 46	2 0	19 25	0 16	22 13	1 12	13 22	9 33	14 41	14 56	5 51	15 5	0 53			
W28	8 16	19 6	4 17	15 20	2 4	12 11	2 42	22 10	0 46	13 36	1 22	16 47	1 59	19 25	0 16	22 13	1 12	13 23	9 33	14 40	14 57	5 49	15 5	0 54			
T 29	7s53	19n37	3s30	14s49	2s 6	12n37	2n49	22s 3	0s47	13s36	1n22	16n48	1s59	19s25	0n16	22s13	1n12	13n23	9s33	14n40	14n58	5n48	15s 4	0n54			

ASTRODIENST EPHEMERIS for the year 2148
geocentric

MARCH 2148

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 37 2	10 ^h 49'07	21 ^h 26'26	27 ^h 40'40	26 ^h 49'49	24 ^h 38'46	10°R16	23 ^h 38'57	27 ^h 18'55	1 ^h 33'39	18°R10	20 ^h 28'28	19 ^h 26'26	21 ^h 18'53	13°R39	F 1
S 2	10 40 59	11°49'23	3 ^h 23'37	29°20	27°42	25°30	10 ^h 16'15	24° 1	27°R55	1°40	18°D10	20°29	19°22	21°59	13 ^h 18'39	S 2
S 3	10 44 55	12°49'36	15°39	1 ^h 18' 2	28°35	26°14	10°13	24° 5	27°55	1°42	18 ^h 11'10	20°R30	19°19	22° 6	13°38	S 3
M 4	10 48 52	13°49'48	27°34	2°45	29°26	26°59	10°12	24° 9	27°55	1°43	18°10	20°30	19°16	22°13	13°38	M 4
T 5	10 52 48	14°49'57	9 ^h 18'25	4°28	0 ^h 17' 0	27°43	10°10	24°13	27°55	1°43	18°10	20°28	19°13	22°19	13°37	T 5
W 6	10 56 45	15°50'05	21°14	6°13	1° 7	28°27	10° 8	24°18	27°55	1°44	18°10	20°26	19°10	22°26	13°36	W 6
T 7	11 0 41	16°50'11	3 ^h 24' 4	7°59	1°57	29°12	10° 6	24°22	27°54	1°45	18°10	20°22	19° 7	22°33	13°35	T 7
F 8	11 4 38	17°50'16	14°56	9°46	2°45	29°56	10° 4	24°26	27°54	1°46	18°10	20°17	19° 3	22°39	13°33	F 8
S 9	11 8 34	18°50'18	26°51	11°34	3°33	0 ^h 44'1	10° 1	24°31	27°54	1°47	18°11	20°12	19° 0	22°46	13°32	S 9
S 10	11 12 31	19°50'19	8 ^h 18'54	13°23	4°19	1°25	9°59	24°36	27°53	1°48	18°11	20° 7	18°57	22°53	13°31	S 10
M 11	11 16 28	20°50'19	21° 5	15°13	5° 5	2°10	9°56	24°40	27°53	1°49	18°11	20° 3	18°54	22°59	13°29	M 11
T 12	11 20 24	21°50'16	3 ^h 27'30	17° 4	5°50	2°54	9°53	24°45	27°52	1°49	18°11	20° 0	18°51	23° 6	13°28	T 12
W 13	11 24 21	22°50'12	16°10	18°57	6°34	3°39	9°50	24°50	27°52	1°50	18°11	19°58	18°47	23°13	13°26	W 13
T 14	11 28 17	23°50'07	29°10	20°50	7°16	4°23	9°47	24°55	27°51	1°51	18°12	19°D58	18°44	23°19	13°24	T 14
F 15	11 32 14	24°50'00	12 ^h 33'33	22°45	7°58	5° 8	9°43	25° 0	27°51	1°51	18°12	19°59	18°41	23°26	13°22	F 15
S 16	11 36 10	25°49'51	26°21	24°40	8°38	5°53	9°39	25° 5	27°50	1°52	18°12	20° 1	18°38	23°33	13°20	S 16
S 17	11 40 7	26°49'40	10 ^h 33'36	26°37	9°18	6°37	9°35	25°10	27°49	1°53	18°13	20° 2	18°35	23°40	13°18	S 17
M 18	11 44 3	27°49'28	25°15	28°34	9°56	7°22	9°31	25°16	27°48	1°53	18°13	20°R 2	18°32	23°46	13°16	M 18
T 19	11 48 0	28°49'14	10 ^h 18'15	0 ^h 43'33	10°33	8° 7	9°27	25°21	27°48	1°54	18°13	20° 1	18°28	23°53	13°13	T 19
W 20	11 51 56	29°48'58	25°28	2°32	11° 8	8°52	9°23	25°27	27°47	1°54	18°14	19°57	18°25	24° 0	13°11	W 20
T 21	11 55 53	0 ^h 48'40	10 ^h 44'44	4°32	11°42	9°36	9°18	25°32	27°46	1°55	18°14	19°52	18°22	24° 6	13° 8	T 21
F 22	11 59 50	1°48'20	25°53	6°32	12°15	10°21	9°14	25°38	27°45	1°55	18°14	19°46	18°19	24°13	13° 6	F 22
S 23	12 3 46	2°47'58	10 ^h 38'44	8°32	12°46	11° 6	9° 9	25°43	27°44	1°55	18°15	19°39	18°16	24°20	13° 3	S 23
S 24	12 7 43	3°47'34	25°11	10°33	13°16	11°51	9° 4	25°49	27°43	1°56	18°15	19°33	18°12	24°26	13° 0	S 24
M 25	12 11 39	4°47'07	9 ^h 18' 9	12°34	13°44	12°35	8°59	25°55	27°41	1°56	18°16	19°29	18° 9	24°33	12°57	M 25
T 26	12 15 36	5°46'38	22°38	14°34	14°11	13°20	8°54	26° 1	27°40	1°56	18°16	19°26	18° 6	24°40	12°54	T 26
W 27	12 19 32	6°46'07	5 ^h 26'40	16°33	14°35	14° 5	8°48	26° 7	27°39	1°57	18°17	19°D25	18° 3	24°46	12°51	W 27
T 28	12 23 29	7°45'34	18°18	18°31	14°58	14°50	8°43	26°13	27°38	1°57	18°17	19°25	18° 0	24°53	12°48	T 28
F 29	12 27 25	8°44'58	0 ^h 23'36	20°28	15°19	15°35	8°37	26°19	27°36	1°57	18°18	19°27	17°57	25° 0	12°45	F 29
S 30	12 31 22	9°44'20	12°41	22°24	15°38	16°20	8°31	26°25	27°35	1°57	18°19	19°28	17°53	25° 6	12°41	S 30
S 31	12 35 19	10 ^h 43'40	24 ^h 23'36	24 ^h 47'17	15 ^h 38'56	17 ^h 38' 5	8 ^h 18'25	26 ^h 38'31	27 ^h 18'34	1 ^h 35'57	18 ^h 19'19	19°R28	17 ^h 23'50	25 ^h 18'13	12 ^h 18'38	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
F 1	7s30	19n11	2s34	14s16	2s 7	13n 3	2n56	21s56	0s47	13s35	1n22	16n49	1s59	19s25	0n16	22s13	1n12	13n23	9s32	14n39	14n59	5n46	15s 4	0n54							
S 2	7 7	17 50	1 32	13 42	2 9	13 29	3 3	21 49	0 48	13 35	1 22	16 50	1 59	19 25	0 16	22 13	1 12	13 23	9 32	14 39	15 0	5 44	15 3	0 55							
S 3	6 44	15 42	0 27	13 7	2 9	13 55	3 10	21 41	0 49	13 34	1 22	16 52	1 58	19 25	0 16	22 13	1 12	13 24	9 32	14 39	15 1	5 42	15 2	0 55							
M 4	6 21	12 55	0n39	12 30	2 10	14 20	3 17	21 33	0 50	13 33	1 23	16 53	1 58	19 25	0 16	22 13	1 12	13 24	9 32	14 39	15 2	5 40	15 2	0 56							
T 5	5 58	9 37	1 42	11 52	2 10	14 45	3 24	21 26	0 51	13 33	1 23	16 54	1 58	19 25	0 16	22 13	1 12	13 24	9 31	14 39	15 3	5 38	15 1	0 56							
W 6	5 35	5 56	2 41	11 13	2 9	15 9	3 31	21 17	0 51	13 32	1 23	16 56	1 58	19 25	0 16	22 13	1 12	13 24	9 31	14 40	15 4	5 36	15 0	0 57							
T 7	5 12	2 2	3 33	10 33	2 8	15 33	3 38	21 9	0 52	13 31	1 23	16 57	1 57	19 25	0 16	22 12	1 12	13 25	9 31	14 41	15 5	5 34	15 0	0 57							
F 8	4 48	1s57	4 16	9 51	2 7	15 56	3 45	21 0	0 53	13 30	1 23	16 58	1 57	19 25	0 16	22 12	1 12	13 25	9 31	14 43	15 6	5 32	14 59	0 58							
S 9	4 25	5 52	4 48	9 9	2 5	16 20	3 52	20 52	0 54	13 29	1 23	16 59	1 57	19 25	0 16	22 12	1 12	13 25	9 30	14 44	15 7	5 30	14 58	0 58							
S 10	4 1	9 36	5 7	8 25	2 2	16 42	4 0	20 43	0 54	13 28	1 24	17 1	1 57	19 25	0 16	22 12	1 12	13 25	9 30	14 46	15 8	5 28	14 57	0 58							
M 11	3 38	12 59	5 13	7 39	1 59	17 5	4 7	20 33	0 55	13 27	1 24	17 2	1 56	19 25	0 16	22 12	1 12	13 26	9 30	14 47	15 9	5 26	14 56	0 59							
T 12	3 14	15 51	5 4	6 53	1 56	17 26	4 14	20 24	0 56	13 26	1 24	17 4	1 56	19 25	0 16	22 12	1 12	13 26	9 30	14 48	15 10	5 24	14 55	0 59							
W 13	2 50	18 3	4 41	6 5	1 52	17 48	4 21	20 14	0 57	13 25	1 24	17 5	1 56	19 24	0 16	22 12	1 12	13 26	9 29	14 49	15 11	5 22	14 54	1 0							
T 14	2 27	19 22	4 3	5 17	1 48	18 9	4 28	20 5	0 58	13 24	1 24	17 6	1 56	19 24	0 16	22 12	1 12	13 27	9 29	14 49	15 12	5 20	14 53	1 0							
F 15	2 3	19 40	3 11	4 27	1 43	18 29	4 35	19 55	0 58	13 22	1 25	17 8	1 56	19 24	0 16	22 12	1 12	13 27	9 29	14 48	15 13	5 18	14 52	1 1							
S 16	1 39	18 48	2 6	3 36	1 37	18 49	4 42	19 44	0 59	13 21	1 25	17 9	1 55	19 24	0 16	22 12	1 12	13 27	9 29	14 48	15 14	5 16	14 51	1 1							
S 17	1 16	16 44	0 51	2 44	1 31	19 8	4 49	19 34	1 0	13 20	1 25	17 11	1 55	19 24	0 16	22 12	1 12	13 27	9 28	14 47	15 15	5 14	14 50	1 1							
M 18	0 52	13 32	0s28	1 52	1 24	19 27	4 56	19 24	1 1	13 18	1 25	17 12	1 55	19 24	0 16	22 12	1 12	13 28	9 28	14 47	15 16	5 12	14 49	1 2							
T 19	0 28	9 23	1 48	0 58	1 17	19 46	5 3	19 13	1 2	13 17	1 25	17 14	1 55	19 23	0 16	22 12	1 12	13 28	9 28	14 48	15 17	5 10	14 48	1 2							
W 20	0 4	4 34	3 1	0 4	1 10	20 3	5 10	19 2	1 2	13 15	1 25	17 15	1 54	19 23	0 16	22 12	1 12	13 28	9 28	14 49	15 18	5 8	14 47	1 3							
T 21	0n19	0n33	4 1	0n51	1 1	20 20	5 16	18 51	1 3	13 14	1 25	17 17	1 54	19 23	0 16	22 12	1 12	13 28	9 28	14 51	15 19	5 6	14 46	1 3							
F 22	0 43	5 35	4 43	1 47	0 53	20 37	5 23	18 39	1 4	13 12	1 26	17 18	1 54	19 23	0 16	22 12	1 12	13 29	9 27	14 53	15 20	5 4	14 45	1 4							
S 23	1 7	10 11	5 6	2 43	0 43	20 53	5 30	18 28	1 5	13 11	1 26	17 20	1 54	19 23	0 16	22 12	1 12	13 29	9 27	14 55	15 21	5 2	14 43	1 4							
S 24	1 30	14 3	5 8	3 39	0 34	21 8	5 36	18 16	1 5	13 9	1 26	17 21	1 54	19 22	0 16	22 12	1 12	13 29	9 27	14 57	15 22	5 0	14 42	1 5							
M 25	1 54	17 0	4 52	4 36	0 23	21 23	5 42	18 4	1 6	13 7	1 26	17 23	1 53	19 22	0 16	22 12	1 13	13 30	9 27	14 58	15 23	4 58	14 41	1 5							
T 26	2 18	18 54	4 19	5 32	0 13	21 37	5 49	17 52	1 7	13 5	1 26	17 24	1 53	19 22	0 16	22 12	1 13	13 30	9 26	14 59	15 23	4 56	14 39	1 5							
W 27	2 41	19 44	3 35	6 28	0 2	21 50	5 55	17 40	1 8	13 3	1 26	17 26	1 53	19 22	0 16	22 12	1 13	13 30	9 26	14 59	15 24	4 54	14 38	1 6							
T 28	3 5	19 31	2 40	7 24	0n 9	22 3	6 0	17 28	1 8	13 2	1 26	17 28	1 53	19 21	0 16	22 12	1 13	13 30	9 26	14 59	15 25	4 52	14 37	1 6							
F 29	3 28	18 22	1 40	8 19	0 21	22 15	6 6	17 15	1 9	13 0	1 27	17 29	1 53	19 21	0 16	22 12	1 13	13 31	9 26	14 59	15 26	4 50	14 35	1 7							
S 30	3 51	16 24	0 37	9 13	0 33	22 26	6 12	17 3	1 10	12 58	1 27	17 31	1 52	19 21	0 16	22 12	1 13	13 31	9 25	14 58	15 27	4 48	14 34	1 7							
S 31	4n15	13n45	0n28	10n 6	0n45	22n36	6n17	16s50	1s11	12s56	1n27	17n32	1s52	19s20	0n16	22s12	1n13	13n31	9s25	14n58	15n28	4n46	14s33	1n 8							

ASTRODIENST EPHEMERIS for the year 2148

geocentric

MAY 2148

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 37 32	11° 8' 64"	8° 41'	11° 58'	7° 8'	10° 20'	4° 42'	0° 11'	26° 32'	1° 45'	18° 47'	16° 43'	16° 12'	28° 40'	10° 27'	W 1
T 2	14 41 28	12° 4' 58"	20° 38'	11° 19'	6° 31'	11° 5'	4° 34'	0° 14'	26° 30'	1° 44'	18° 48'	16° 32'	16° 9'	28° 47'	10° 22'	T 2
F 3	14 45 25	13° 3' 12"	2° 44'	10° 39'	5° 55'	11° 50'	4° 27'	0° 21'	26° 27'	1° 43'	18° 49'	16° 20'	16° 5'	28° 53'	10° 17'	F 3
S 4	14 49 21	14° 1' 25"	14° 59'	10° 1'	5° 20'	12° 35'	4° 19'	0° 29'	26° 25'	1° 42'	18° 50'	16° 6'	16° 2'	29° 0'	10° 13'	S 4
S 5	14 53 18	14° 59' 37"	27° 25'	9° 23'	4° 47'	13° 20'	4° 12'	0° 36'	26° 22'	1° 41'	18° 52'	15° 52'	15° 59'	29° 7'	10° 8'	S 5
M 6	14 57 14	15° 57' 46"	10° 1'	8° 48'	4° 15'	14° 5'	4° 4'	0° 44'	26° 20'	1° 40'	18° 53'	15° 40'	15° 56'	29° 13'	10° 4'	M 6
T 7	15 1 11	16° 55' 54"	22° 49'	8° 14'	3° 45'	14° 50'	3° 57'	0° 52'	26° 18'	1° 39'	18° 54'	15° 30'	15° 53'	29° 20'	9° 59'	T 7
W 8	15 5 8	17° 54' 01"	5° 34'	7° 44'	3° 16'	15° 35'	3° 50'	0° 59'	26° 15'	1° 38'	18° 55'	15° 23'	15° 49'	29° 27'	9° 54'	W 8
T 9	15 9 4	18° 52' 06"	18° 58'	7° 17'	2° 50'	16° 20'	3° 42'	1° 7'	26° 13'	1° 37'	18° 56'	15° 19'	15° 46'	29° 33'	9° 50'	T 9
F 10	15 13 1	19° 50' 10"	2° 21'	6° 54'	2° 26'	17° 5'	3° 35'	1° 15'	26° 10'	1° 36'	18° 58'	15° 18'	15° 43'	29° 40'	9° 45'	F 10
S 11	15 16 57	20° 48' 12"	16° 0'	6° 35'	2° 3'	17° 50'	3° 28'	1° 22'	26° 8'	1° 35'	18° 59'	15° 17'	15° 40'	29° 47'	9° 41'	S 11
S 12	15 20 54	21° 46' 13"	29° 54'	6° 21'	1° 44'	18° 35'	3° 21'	1° 30'	26° 5'	1° 34'	19° 0'	15° 17'	15° 37'	29° 53'	9° 36'	S 12
M13	15 24 50	22° 44' 13"	14° 5'	6° 10'	1° 26'	19° 20'	3° 14'	1° 38'	26° 3'	1° 33'	19° 1'	15° 16'	15° 34'	0° 0'	9° 32'	M13
T14	15 28 47	23° 42' 11"	28° 30'	6° 5'	1° 11'	20° 5'	3° 7'	1° 45'	26° 0'	1° 31'	19° 3'	15° 13'	15° 30'	0° 7'	9° 28'	T14
W15	15 32 43	24° 40' 08"	13° 9'	6° 0' 4"	0° 58'	20° 49'	3° 1'	1° 53'	25° 58'	1° 30'	19° 4'	15° 7'	15° 27'	0° 13'	9° 23'	W15
T16	15 36 40	25° 38' 04"	27° 54'	6° 7'	0° 48'	21° 34'	2° 54'	2° 1'	25° 55'	1° 29'	19° 5'	14° 58'	15° 24'	0° 20'	9° 19'	T16
F17	15 40 37	26° 35' 59"	12° 38'	6° 15'	0° 40'	22° 19'	2° 48'	2° 9'	25° 52'	1° 28'	19° 6'	14° 48'	15° 21'	0° 27'	9° 15'	F17
S18	15 44 33	27° 33' 52"	27° 15'	6° 28'	0° 35'	23° 4'	2° 41'	2° 16'	25° 50'	1° 26'	19° 8'	14° 37'	15° 18'	0° 33'	9° 10'	S18
S19	15 48 30	28° 31' 44"	11° 35'	6° 45'	0° 32'	23° 49'	2° 35'	2° 24'	25° 47'	1° 25'	19° 9'	14° 26'	15° 15'	0° 40'	9° 6'	S19
M20	15 52 26	29° 29' 34"	25° 34'	7° 7'	0° 31'	24° 33'	2° 29'	2° 32'	25° 45'	1° 24'	19° 10'	14° 17'	15° 11'	0° 47'	9° 2'	M20
T21	15 56 23	0° 12' 23"	9° 8'	7° 33'	0° 33'	25° 18'	2° 23'	2° 40'	25° 42'	1° 23'	19° 12'	14° 10'	15° 8'	0° 54'	8° 58'	T21
W22	16 0 19	1° 25' 10"	22° 15'	8° 3'	0° 37'	26° 3'	2° 17'	2° 48'	25° 40'	1° 21'	19° 13'	14° 6'	15° 5'	1° 0'	8° 54'	W22
T23	16 4 16	2° 22' 55"	4° 58'	8° 37'	0° 43'	26° 47'	2° 11'	2° 55'	25° 37'	1° 20'	19° 14'	14° 4'	15° 2'	1° 7'	8° 50'	T23
F24	16 8 12	3° 20' 39"	17° 21'	9° 15'	0° 51'	27° 32'	2° 5'	3° 3'	25° 35'	1° 19'	19° 16'	14° 0' 4"	14° 59'	1° 14'	8° 46'	F24
S25	16 12 9	4° 18' 21"	29° 28'	9° 57'	1° 2'	28° 16'	1° 59'	3° 11'	25° 32'	1° 17'	19° 17'	14° 0' 4"	14° 55'	1° 20'	8° 42'	S25
S26	16 16 6	5° 16' 02"	11° 24'	10° 43'	1° 14'	29° 1'	1° 54'	3° 19'	25° 30'	1° 16'	19° 18'	14° 4'	14° 52'	1° 27'	8° 38'	S26
M27	16 20 2	6° 13' 41"	23° 14'	11° 32'	1° 29'	29° 45'	1° 49'	3° 26'	25° 28'	1° 14'	19° 20'	14° 3'	14° 49'	1° 34'	8° 35'	M27
T28	16 23 59	7° 11' 19"	5° 5'	12° 25'	1° 46'	0° 30'	1° 44'	3° 34'	25° 25'	1° 13'	19° 21'	13° 59'	14° 46'	1° 40'	8° 31'	T28
W29	16 27 55	8° 8' 55"	16° 59'	13° 21'	2° 4'	1° 14'	1° 39'	3° 42'	25° 23'	1° 11'	19° 22'	13° 53'	14° 43'	1° 47'	8° 27'	W29
T30	16 31 52	9° 6' 30"	29° 2'	14° 20'	2° 24'	1° 58'	1° 34'	3° 50'	25° 20'	1° 10'	19° 24'	13° 45'	14° 40'	1° 54'	8° 24'	T30
F31	16 35 48	10° 11' 40"	11° 16'	15° 23'	2° 46'	2° 43'	1° 29'	3° 57'	25° 18'	1° 9'	19° 25'	13° 35'	14° 36'	2° 0'	8° 20'	F31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	15n 9	0n12	3n57	16n19	0n57	18n34	4n58	9s 7	1s33	11s42	1n27	18n24	1s47	19s 6	0n16	22s11	1n14
T 2	15 27	3s52	4 30	15 51	0 41	18 10	4 46	8 50	1 33	11 40	1 27	18 26	1 47	19 6	0 16	22 11	1 14
F 3	15 45	7 50	4 52	15 23	0 24	17 46	4 32	8 34	1 34	11 38	1 27	18 28	1 47	19 5	0 16	22 11	1 14
S 4	16 2	11 32	5 0	14 54	0 6	17 21	4 19	8 17	1 35	11 35	1 27	18 29	1 47	19 5	0 16	22 11	1 14
S 5	16 19	14 48	4 54	14 26	0s11	16 57	4 5	8 1	1 35	11 33	1 27	18 31	1 47	19 4	0 16	22 11	1 14
M 6	16 36	17 25	4 34	13 58	0 28	16 33	3 51	7 44	1 36	11 30	1 27	18 33	1 47	19 3	0 16	22 11	1 14
T 7	16 53	19 14	3 59	13 32	0 45	16 9	3 37	7 27	1 37	11 28	1 27	18 34	1 47	19 3	0 16	22 11	1 14
W 8	17 9	20 5	3 12	13 6	1 2	15 46	3 22	7 10	1 37	11 26	1 26	18 36	1 47	19 2	0 16	22 11	1 14
T 9	17 25	19 52	2 14	12 42	1 18	15 23	3 8	6 53	1 38	11 23	1 26	18 37	1 47	19 2	0 16	22 11	1 14
F 10	17 41	18 31	1 8	12 20	1 33	15 1	2 53	6 36	1 38	11 21	1 26	18 39	1 47	19 1	0 16	22 11	1 14
S 11	17 56	16 5	0s 4	12 0	1 48	14 40	2 39	6 19	1 39	11 19	1 26	18 41	1 46	19 1	0 16	22 11	1 14
S 12	18 12	12 41	1 17	11 43	2 2	14 19	2 24	6 2	1 39	11 17	1 26	18 42	1 46	19 0	0 16	22 11	1 14
M13	18 26	8 30	2 26	11 27	2 14	14 0	2 10	5 45	1 40	11 14	1 26	18 44	1 46	18 59	0 16	22 11	1 14
T14	18 41	3 46	3 27	11 14	2 26	13 41	1 56	5 28	1 41	11 12	1 26	18 46	1 46	18 59	0 16	22 11	1 14
W15	18 55	1n15	4 16	11 3	2 37	13 24	1 42	5 11	1 41	11 10	1 25	18 47	1 46	18 58	0 16	22 11	1 14
T16	19 9	6 14	4 48	10 55	2 47	13 8	1 29	4 54	1 42	11 8	1 25	18 49	1 46	18 58	0 16	22 11	1 14
F17	19 23	10 50	5 1	10 49	2 56	12 52	1 15	4 37	1 42	11 6	1 25	18 50	1 46	18 57	0 16	22 11	1 14
S18	19 36	14 45	4 54	10 46	3 4	12 38	1 2	4 19	1 43	11 4	1 25	18 52	1 46	18 57	0 16	22 11	1 14
S19	19 49	17 43	4 28	10 45	3 11	12 25	0 49	4 2	1 43	11 2	1 25	18 54	1 46	18 56	0 16	22 11	1 14
M20	20 1	19 34	3 47	10 46	3 17	12 13	0 37	3 45	1 44	11 0	1 25	18 55	1 46	18 55	0 16	22 11	1 14
T21	20 14	20 13	2 54	10 50	3 22	12 3	0 25	3 28	1 44	10 58	1 24	18 57	1 46	18 55	0 16	22 11	1 14
W22	20 26	19 43	1 53	10 55	3 26	11 53	0 13	3 10	1 45	10 56	1 24	18 58	1 46	18 54	0 16	22 11	1 14
T23	20 37	18 14	0 48	11 3	3 30	11 44	0 2	2 53	1 45	10 54	1 24	19 0	1 46	18 54	0 16	22 11	1 14
F24	20 48	15 54	0n17	11 13	3 32	11 37	0s 9	2 36	1 46	10 52	1 24	19 1	1 46	18 53	0 16	22 11	1 14
S25	20 59	12 55	1 21	11 24	3 33	11 31	0 20	2 19	1 46	10 51	1 24	19 3	1 45	18 52	0 16	22 11	1 14
S26	21 10	9 27	2 20	11 38	3 34	11 25	0 30	2 1	1 47	10 49	1 23	19 4	1 45	18 52	0 16	22 11	1 14
M27	21 20	5 38	3 13	11 53	3 34	11 21	0 40	1 44	1 47	10 47	1 23	19 6	1 45	18 51	0 16	22 11	1 14
T28	21 29	1 36	3 57	12 10	3 33	11 18	0 50	1 27	1 48	10 46	1 23	19 7	1 45	18 51	0 16	22 11	1 14
W29	21 39	2s30	4 31	12 28	3 31	11 15	0 59	1 10	1 48	10 44	1 23	19 9	1 45	18 50	0 16	22 11	1 14
T30	21 48	6 32	4 53	12 48	3 29	11 14	1 8	0 52	1 48	10 43	1 23	19 10	1 45	18 50	0 16	22 11	1 14
F31	21n56	10s23	5n 3	13n 9	3s26	11n14	1s16	0s35	1s49	10s41	1n22	19n12	1s45	18s49	0n16	22s11	1n14

Julian Day Number = 2505721.5, Delta T = 120.52 sec
 Ecliptic obliquity = 23°25'05", Nutation = - 0°00'13", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°48'47", Lahiri = 25°55'47"

ASTRODIENST EPHEMERIS for the year 2148

geocentric

JUNE 2148

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	16 39 45	11 ^{II} 1'36	23 ^{III} 42	16 ^{IV} 29	3 ^V 10	3 ^V 27	1°R24	4 ^{II} 5	25°R15	1°R 7	19 ^{II} 27	13°R24	14 ^{III} 33	2 ^{II} 7	8°R17	S 1
S 2	16 43 41	11°59'07	6 ^{IV} 23	17°38	3°35	4°11	1 ^{III} 20	4°13	25 ^{III} 13	1 ^{II} 6	19°28	13 ^{II} 13	14°30	2°14	8 ^{III} 14	S 2
M 3	16 47 38	12°56'37	19°17	18°49	4° 2	4°55	1°16	4°21	25°11	1° 4	19°29	13° 3	14°27	2°20	8°11	M 3
T 4	16 51 35	13°54'06	2 ^{IV} 25	20° 4	4°31	5°39	1°12	4°28	25° 8	1° 2	19°31	12°56	14°24	2°27	8° 7	T 4
W 5	16 55 31	14°51'34	15°44	21°22	5° 1	6°24	1° 8	4°36	25° 6	1° 1	19°32	12°50	14°21	2°34	8° 4	W 5
T 6	16 59 28	15°49'02	29°14	22°42	5°33	7° 8	1° 4	4°44	25° 4	0°59	19°33	12°47	14°17	2°41	8° 1	T 6
F 7	17 3 24	16°46'28	12 ^{III} 55	24° 6	6° 5	7°52	1° 0	4°51	25° 1	0°58	19°35	12°D46	14°14	2°47	7°59	F 7
S 8	17 7 21	17°43'54	26°44	25°32	6°40	8°36	0°57	4°59	24°59	0°56	19°36	12°47	14°11	2°54	7°56	S 8
S 9	17 11 17	18°41'19	10 ^{III} 43	27° 1	7°15	9°19	0°54	5° 7	24°57	0°55	19°38	12°48	14° 8	3° 1	7°53	S 9
M10	17 15 14	19°38'44	24°50	28°32	7°52	10° 3	0°51	5°14	24°55	0°53	19°39	12°R48	14° 5	3° 7	7°50	M10
T 11	17 19 10	20°36'08	9 ^{IV} 5	0 ^{III} 6	8°30	10°47	0°48	5°22	24°53	0°52	19°40	12°46	14° 1	3°14	7°48	T 11
W12	17 23 7	21°33'31	23°24	1°43	9° 9	11°31	0°45	5°30	24°50	0°50	19°42	12°43	13°58	3°21	7°45	W12
T 13	17 27 4	22°30'54	7 ^{IV} 45	3°23	9°49	12°15	0°42	5°37	24°48	0°48	19°43	12°38	13°55	3°27	7°43	T 13
F 14	17 31 0	23°28'17	22° 4	5° 6	10°30	12°58	0°40	5°45	24°46	0°47	19°45	12°31	13°52	3°34	7°41	F 14
S 15	17 34 57	24°25'39	6 ^{III} 14	6°51	11°12	13°42	0°38	5°52	24°44	0°45	19°46	12°23	13°49	3°41	7°38	S 15
S 16	17 38 53	25°23'00	20°12	8°38	11°55	14°25	0°36	6° 0	24°42	0°44	19°47	12°16	13°46	3°47	7°36	S 16
M17	17 42 50	26°20'21	3 ^{III} 53	10°29	12°39	15° 9	0°34	6° 7	24°40	0°42	19°49	12° 9	13°42	3°54	7°34	M17
T 18	17 46 46	27°17'41	17°14	12°21	13°24	15°52	0°32	6°15	24°38	0°40	19°50	12° 5	13°39	4° 1	7°33	T 18
W19	17 50 43	28°15'01	0 ^{II} 14	14°17	14°10	16°35	0°30	6°22	24°36	0°39	19°52	12° 2	13°36	4° 8	7°31	W19
T 20	17 54 40	29°12'20	12°53	16°14	14°56	17°19	0°29	6°30	24°34	0°37	19°53	12°D 2	13°33	4°14	7°29	T 20
F 21	17 58 36	0 ^{II} 9'37	25°15	18°14	15°43	18° 2	0°28	6°37	24°32	0°36	19°54	12° 2	13°30	4°21	7°27	F 21
S 22	18 2 33	1° 6'55	7 ^{III} 22	20°16	16°31	18°45	0°27	6°44	24°30	0°34	19°56	12° 4	13°27	4°28	7°26	S 22
S 23	18 6 29	2° 4'11	19°20	22°20	17°20	19°28	0°26	6°52	24°28	0°32	19°57	12° 5	13°23	4°34	7°25	S 23
M24	18 10 26	3° 1'27	1 ^{II} 12	24°26	18°10	20°11	0°26	6°59	24°27	0°31	19°58	12°R 6	13°20	4°41	7°23	M24
T 25	18 14 22	3°58'42	13° 4	26°33	19° 0	20°53	0°25	7° 6	24°25	0°29	20° 0	12° 5	13°17	4°48	7°22	T 25
W26	18 18 19	4°55'56	25° 0	28°42	19°51	21°36	0°25	7°13	24°23	0°27	20° 1	12° 3	13°14	4°54	7°21	W26
T 27	18 22 15	5°53'10	7 ^{III} 6	0 ^{II} 51	20°42	22°19	0°D25	7°21	24°22	0°26	20° 2	12° 0	13°11	5° 1	7°20	T 27
F 28	18 26 12	6°50'23	19°24	3° 2	21°34	23° 1	0°25	7°28	24°20	0°24	20° 4	11°55	13° 7	5° 8	7°19	F 28
S 29	18 30 9	7°47'36	1 ^{IV} 59	5°13	22°27	23°44	0°25	7°35	24°18	0°23	20° 5	11°50	13° 4	5°14	7°18	S 29
S 30	18 34 5	8 ^{III} 44'48	14 ^{IV} 51	7 ^{II} 24	23 ^{IV} 20	24 ^V 26	0 ^{III} 26	7 ^{II} 42	24 ^{III} 17	0 ^{II} 21	20 ^{II} 6	11 ^{II} 44	13 ^{II} 1	5 ^{II} 21	7 ^{III} 18	S 30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	lat
S 1	22n 5	13s52	4n58	13n31	3s22	11n14	1s25	0s18	1s49	10s40	1n22	19n13	1s45	18s48	0n16	22s11	1n14	13n46	9s15	16n47	16n27	2n39	12s51	1n29
S 2	22 12	16 46	4 39	13 55	3 17	11 15	1 32	0 1	1 50	10 39	1 22	19 15	1 45	18 48	0 16	22 11	1 14	13 46	9 15	16 50	16 28	2 37	12 50	1 29
M 3	22 20	18 54	4 6	14 19	3 12	11 17	1 40	0n16	1 50	10 38	1 22	19 16	1 45	18 47	0 16	22 11	1 14	13 47	9 15	16 53	16 29	2 35	12 48	1 30
T 4	22 27	20 6	3 18	14 45	3 7	11 20	1 47	0 33	1 50	10 36	1 21	19 18	1 45	18 47	0 16	22 11	1 14	13 47	9 15	16 55	16 30	2 33	12 47	1 30
W 5	22 34	20 11	2 19	15 11	3 0	11 24	1 54	0 50	1 51	10 35	1 21	19 19	1 45	18 46	0 16	22 11	1 14	13 47	9 15	16 57	16 31	2 30	12 46	1 30
T 6	22 40	19 7	1 12	15 38	2 53	11 28	2 0	1 8	1 51	10 34	1 21	19 21	1 45	18 46	0 16	22 11	1 14	13 47	9 15	16 57	16 32	2 28	12 45	1 30
F 7	22 46	16 56	0s 1	16 6	2 46	11 33	2 7	1 25	1 51	10 33	1 21	19 22	1 45	18 45	0 16	22 11	1 14	13 47	9 15	16 58	16 33	2 26	12 44	1 31
S 8	22 51	13 45	1 14	16 34	2 38	11 38	2 13	1 42	1 52	10 32	1 20	19 23	1 45	18 45	0 16	22 11	1 14	13 47	9 15	16 58	16 34	2 24	12 42	1 31
S 9	22 56	9 46	2 24	17 2	2 30	11 44	2 18	1 58	1 52	10 31	1 20	19 25	1 45	18 44	0 16	22 11	1 14	13 48	9 15	16 57	16 34	2 22	12 41	1 31
M10	23 1	5 12	3 26	17 31	2 21	11 51	2 24	2 15	1 52	10 30	1 20	19 26	1 45	18 44	0 15	22 11	1 14	13 48	9 15	16 57	16 35	2 20	12 40	1 31
T 11	23 5	0 20	4 16	18 1	2 12	11 59	2 29	2 32	1 53	10 30	1 20	19 27	1 45	18 43	0 15	22 11	1 14	13 48	9 15	16 58	16 36	2 18	12 39	1 32
W12	23 9	4n35	4 50	18 30	2 2	12 6	2 33	2 49	1 53	10 29	1 19	19 29	1 45	18 43	0 15	22 11	1 14	13 48	9 15	16 59	16 37	2 16	12 38	1 32
T 13	23 12	9 15	5 6	18 59	1 52	12 15	2 38	3 6	1 53	10 28	1 19	19 30	1 45	18 42	0 15	22 11	1 14	13 48	9 15	17 0	16 38	2 13	12 37	1 32
F 14	23 15	13 23	5 3	19 28	1 42	12 23	2 42	3 22	1 54	10 28	1 19	19 31	1 45	18 42	0 15	22 11	1 14	13 48	9 15	17 2	16 39	2 11	12 36	1 32
S 15	23 18	16 43	4 41	19 56	1 31	12 33	2 46	3 39	1 54	10 27	1 19	19 33	1 45	18 41	0 15	22 11	1 14	13 48	9 15	17 4	16 40	2 9	12 35	1 32
S 16	23 20	19 1	4 3	20 24	1 20	12 42	2 50	3 56	1 54	10 27	1 18	19 34	1 45	18 41	0 15	22 11	1 14	13 49	9 15	17 6	16 41	2 7	12 35	1 33
M17	23 22	20 11	3 11	20 51	1 9	12 52	2 53	4 12	1 54	10 26	1 18	19 35	1 45	18 40	0 15	22 11	1 14	13 49	9 15	17 8	16 42	2 5	12 34	1 33
T 18	23 23	20 10	2 10	21 18	0 58	13 2	2 57	4 29	1 54	10 26	1 18	19 37	1 45	18 40	0 15	22 11	1 14	13 49	9 14	17 9	16 43	2 3	12 33	1 33
W19	23 24	19 3	1 4	21 43	0 47	13 13	3 0	4 45	1 55	10 26	1 18	19 38	1 45	18 39	0 15	22 11	1 14	13 49	9 14	17 10	16 44	2 1	12 32	1 33
T 20	23 25	17 0	0n 5	22 7	0 35	13 24	3 2	5 1	1 55	10 25	1 17	19 39	1 45	18 39	0 15	22 11	1 14	13 49	9 14	17 10	16 45	1 59	12 31	1 33
F 21	23 25	14 13	1 11	22 30	0 24	13 35	3 5	5 17	1 55	10 25	1 17	19 40	1 45	18 38	0 15	22 11	1 14	13 49	9 14	17 10	16 45	1 56	12 31	1 33
S 22	23 25	10 51	2 13	22 51	0 13	13 46	3 7	5 34	1 55	10 25	1 17	19 41	1 45	18 38	0 15	22 11	1 14	13 49	9 14	17 10	16 46	1 54	12 30	1 34
S 23	23 24	7 7	3 9	23 10	0 1	13 58	3 9	5 50	1 55	10 25	1 17	19 43	1 45	18 38	0 15	22 11	1 14	13 49	9 14	17 9	16 47	1 52	12 30	1 34
M24	23 23	3 8	3 56	23 27	0n 9	14 10	3 11	6 6	1 56	10 25	1 16	19 44	1 45	18 37	0 15	22 11	1 14	13 49	9 14	17 9	16 48	1 50	12 29	1 34
T 25	23 21	0s58	4 32	23 42	0 20	14 21	3 13	6 22	1 56	10 25	1 16	19 45	1 45	18 37	0 15	22 11	1 14	13 50	9 14	17 9	16 49	1 48	12 28	1 34
W26	23 20	5 3	4 58	23 55	0 30	14 34	3 15	6 37	1 56	10 25	1 16	19 46	1 45	18 36	0 15	22 11	1 14	13 50	9 14	17 10	16 50	1 46	12 28	1 34
T 27	23 17	8 59	5 10	24 5	0 40	14 46	3 16	6 53	1 56	10 26	1 15	19 47	1 45	18 36	0 15	22 11	1 14	13 50	9 14	17 11	16 51	1 44	12 27	1 35
F 28	23 14	12 37	5 9	24 13	0 50	14 58	3 17	7 9	1 56	10 26	1 15	19 48	1 45	18 36	0 15	22 11	1 14	13 50	9 14	17 12	16 52	1 41	12 27	1 35
S 29	23 11	15 46	4 52	24 17	0 59	15 10	3 18	7 24	1 56	10 26	1 15	19 50	1 45	18 35	0 15	22 11	1 14	13 50	9 14	17 14	16 53	1 39	12 27	1 35
S 30	23n 8	18s14	4n21	24n19	1n 7	15n23	3s19	7n40	1s56	10s27	1n15	19n51	1s45	18s35	0n15	22s11	1n14	13n50	9s15	17n15	16n54	1n37	12s26	1n35

ASTRODIENST EPHEMERIS for the year 2148
geocentric

JULY 2148

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 38 2	9 ⁵ 42'00	28 ⁷ 1	9 ⁵ 35	24 ⁸ 14	25 ⁹ 9	0 ⁰ 26	7 ¹¹ 49	24 ⁸ R15	0 ⁰ R19	20 ¹¹ 8	11 ⁰ R39	12 ⁰ Ω58	5 ⁵ Δ28	7 ⁰ R17	M 1	
T 2	18 41 58	10 ⁰ 39'12	11 ³ 29	11 ⁴ 46	25 ⁰ 8	25 ⁵ 51	0 ⁰ 27	7 ⁰ 56	24 ¹¹ 14	0 ⁰ 18	20 ⁰ 9	11 ⁰ Ω36	12 ⁰ 55	5 ⁵ 35	7 ⁰ 17	T 2	
W 3	18 45 55	11 ⁰ 36'24	25 ⁰ 12	13 ⁵ 56	26 ⁰ 3	26 ⁰ 33	0 ⁰ 28	8 ⁰ 3	24 ⁰ 12	0 ⁰ 16	20 ⁰ 10	11 ⁰ 33	12 ⁰ 52	5 ⁵ 41	7 ⁰ 17	W 3	
T 4	18 49 51	12 ⁰ 33'35	9 ⁵ 7	16 ⁰ 5	26 ⁰ 58	27 ⁰ 15	0 ⁰ 29	8 ⁰ 10	24 ⁰ 11	0 ⁰ 15	20 ⁰ 12	11 ⁰ D32	12 ⁰ 48	5 ⁵ 48	7 ⁰ 16	T 4	
F 5	18 53 48	13 ⁰ 30'47	23 ⁰ 12	18 ⁰ 14	27 ⁰ 54	27 ⁰ 57	0 ⁰ 31	8 ⁰ 17	24 ⁰ 10	0 ⁰ 13	20 ⁰ 13	11 ⁰ 33	12 ⁰ 45	5 ⁵ 55	7 ⁰ 16	F 5	
S 6	18 57 44	14 ⁰ 27'59	7 ⁰ 24	20 ⁰ 21	28 ⁰ 50	28 ⁰ 39	0 ⁰ 32	8 ⁰ 23	24 ⁰ 8	0 ⁰ 12	20 ⁰ 14	11 ⁰ 34	12 ⁰ 42	6 ⁰ 1	7 ⁰ D16	S 6	
S 7	19 1 141	15 ⁰ 25'11	21 ⁰ 38	22 ⁰ 27	29 ⁰ 47	29 ⁰ 21	0 ⁰ 34	8 ⁰ 30	24 ⁰ 7	0 ⁰ 10	20 ⁰ 16	11 ⁰ 35	12 ⁰ 39	6 ⁰ 8	7 ⁰ 16	S 7	
M 8	19 5 38	16 ⁰ 22'23	5 ⁰ Y53	24 ⁰ 31	0 ⁰ II44	0 ⁰ 8 2	0 ⁰ 36	8 ⁰ 37	24 ⁰ 6	0 ⁰ 8	20 ⁰ 17	11 ⁰ 36	12 ⁰ 36	6 ⁰ 15	7 ⁰ 16	M 8	
T 9	19 9 34	17 ⁰ 19'35	20 ⁰ 6	26 ⁰ 34	1 ⁰ 42	0 ⁰ 44	0 ⁰ 38	8 ⁰ 44	24 ⁰ 5	0 ⁰ 7	20 ⁰ 18	11 ⁰ R37	12 ⁰ 33	6 ⁰ 21	7 ⁰ 17	T 9	
W10	19 13 31	18 ⁰ 16'48	4 ⁰ Δ15	28 ⁰ 35	2 ⁰ 40	1 ⁰ 26	0 ⁰ 40	8 ⁰ 50	24 ⁰ 3	0 ⁰ 5	20 ⁰ 19	11 ⁰ 36	12 ⁰ 29	6 ⁰ 28	7 ⁰ 17	W10	
T 11	19 17 27	19 ⁰ 14'01	18 ⁰ 18	0 ⁰ Ω34	3 ⁰ 38	2 ⁰ 7	0 ⁰ 42	8 ⁰ 57	24 ⁰ 2	0 ⁰ 4	20 ⁰ 21	11 ⁰ 34	12 ⁰ 26	6 ⁰ 35	7 ⁰ 18	T 11	
F 12	19 21 24	20 ⁰ 11'15	2 ⁰ II12	2 ⁰ 32	4 ⁰ 37	2 ⁰ 48	0 ⁰ 45	9 ⁰ 3	24 ⁰ 1	0 ⁰ 2	20 ⁰ 22	11 ⁰ 32	12 ⁰ 23	6 ⁰ 41	7 ⁰ 18	F 12	
S 13	19 25 20	21 ⁰ 8'29	15 ⁰ 56	4 ⁰ 27	5 ⁰ 36	3 ⁰ 29	0 ⁰ 48	9 ⁰ 10	24 ⁰ 0	0 ⁰ 1	20 ⁰ 23	11 ⁰ 29	12 ⁰ 20	6 ⁰ 48	7 ⁰ 19	S 13	
S 14	19 29 17	22 ⁰ 5'44	29 ⁰ 27	6 ⁰ 21	6 ⁰ 36	4 ⁰ 10	0 ⁰ 51	9 ⁰ 16	23 ⁰ 59	29 ⁰ Δ59	20 ⁰ 24	11 ⁰ 26	12 ⁰ 17	6 ⁰ 55	7 ⁰ 20	S 14	
M15	19 33 13	23 ⁰ 2'59	12 ⁰ 34	8 ⁰ 13	7 ⁰ 36	4 ⁰ 51	0 ⁰ 54	9 ⁰ 23	23 ⁰ 58	29 ⁰ 58	20 ⁰ 26	11 ⁰ 24	12 ⁰ 13	7 ⁰ 2	7 ⁰ 21	M15	
T 16	19 37 10	24 ⁰ 0'14	25 ⁰ 45	10 ⁰ 3	8 ⁰ 36	5 ⁰ 32	0 ⁰ 57	9 ⁰ 29	23 ⁰ 58	29 ⁰ 56	20 ⁰ 27	11 ⁰ 22	12 ⁰ 10	7 ⁰ 8	7 ⁰ 22	T 16	
W17	19 41 7	24 ⁰ 57'30	8 ⁰ Ω30	11 ⁰ 51	9 ⁰ 36	6 ⁰ 13	1 ⁰ 0	9 ⁰ 35	23 ⁰ 57	29 ⁰ 55	20 ⁰ 28	11 ⁰ D22	12 ⁰ 7	7 ⁰ 15	7 ⁰ 23	W17	
T 18	19 45 3	25 ⁰ 54'45	21 ⁰ 0	13 ⁰ 37	10 ⁰ 37	6 ⁰ 53	1 ⁰ 4	9 ⁰ 42	23 ⁰ 56	29 ⁰ 54	20 ⁰ 29	11 ⁰ 22	12 ⁰ 4	7 ⁰ 22	7 ⁰ 24	T 18	
F 19	19 49 0	26 ⁰ 52'01	3 ⁰ 116	15 ⁰ 22	11 ⁰ 38	7 ⁰ 34	1 ⁰ 8	9 ⁰ 48	23 ⁰ 55	29 ⁰ 52	20 ⁰ 30	11 ⁰ 23	12 ⁰ 1	7 ⁰ 28	7 ⁰ 26	F 19	
S 20	19 52 56	27 ⁰ 49'17	15 ⁰ 20	17 ⁰ 4	12 ⁰ 39	8 ⁰ 14	1 ⁰ 12	9 ⁰ 54	23 ⁰ 55	29 ⁰ 51	20 ⁰ 31	11 ⁰ 24	11 ⁰ 58	7 ⁰ 35	7 ⁰ 27	S 20	
S 21	19 56 53	28 ⁰ 46'33	27 ⁰ 17	18 ⁰ 45	13 ⁰ 41	8 ⁰ 54	1 ⁰ 16	10 ⁰ 0	23 ⁰ 54	29 ⁰ 49	20 ⁰ 33	11 ⁰ 25	11 ⁰ 54	7 ⁰ 42	7 ⁰ 29	S 21	
M22	20 0 49	29 ⁰ 43'50	9 ⁰ Δ9	20 ⁰ 23	14 ⁰ 43	9 ⁰ 34	1 ⁰ 20	10 ⁰ 6	23 ⁰ 54	29 ⁰ 48	20 ⁰ 34	11 ⁰ 26	11 ⁰ 51	7 ⁰ 48	7 ⁰ 31	M22	
T 23	20 4 46	0 ⁰ Δ41'07	21 ⁰ 0	22 ⁰ 0	15 ⁰ 45	10 ⁰ 14	1 ⁰ 24	10 ⁰ 12	23 ⁰ 53	29 ⁰ 47	20 ⁰ 35	11 ⁰ 27	11 ⁰ 48	7 ⁰ 55	7 ⁰ 33	T 23	
W24	20 8 42	1 ⁰ 38'24	2 ⁰ 1157	23 ⁰ 35	16 ⁰ 48	10 ⁰ 53	1 ⁰ 29	10 ⁰ 18	23 ⁰ 53	29 ⁰ 45	20 ⁰ 36	11 ⁰ R27	11 ⁰ 45	8 ⁰ 2	7 ⁰ 34	W24	
T 25	20 12 39	2 ⁰ 35'41	15 ⁰ 3	25 ⁰ 8	17 ⁰ 51	11 ⁰ 33	1 ⁰ 34	10 ⁰ 23	23 ⁰ 52	29 ⁰ 44	20 ⁰ 37	11 ⁰ 27	11 ⁰ 42	8 ⁰ 9	7 ⁰ 36	T 25	
F 26	20 16 36	3 ⁰ 32'59	27 ⁰ 22	26 ⁰ 39	18 ⁰ 54	12 ⁰ 12	1 ⁰ 39	10 ⁰ 29	23 ⁰ 52	29 ⁰ 43	20 ⁰ 38	11 ⁰ 26	11 ⁰ 39	8 ⁰ 15	7 ⁰ 39	F 26	
S 27	20 20 32	4 ⁰ 30'17	9 ⁰ Δ58	28 ⁰ 8	19 ⁰ 57	12 ⁰ 52	1 ⁰ 44	10 ⁰ 35	23 ⁰ 51	29 ⁰ 42	20 ⁰ 39	11 ⁰ 25	11 ⁰ 35	8 ⁰ 22	7 ⁰ 41	S 27	
S 28	20 24 29	5 ⁰ 27'35	22 ⁰ 55	29 ⁰ 35	21 ⁰ 0	13 ⁰ 31	1 ⁰ 49	10 ⁰ 40	23 ⁰ 51	29 ⁰ 40	20 ⁰ 40	11 ⁰ 25	11 ⁰ 32	8 ⁰ 29	7 ⁰ 43	S 28	
M29	20 28 25	6 ⁰ 24'54	6 ⁰ Δ15	1 ⁰ 110 0	22 ⁰ 4	14 ⁰ 10	1 ⁰ 54	10 ⁰ 46	23 ⁰ 51	29 ⁰ 39	20 ⁰ 41	11 ⁰ 24	11 ⁰ 29	8 ⁰ 35	7 ⁰ 46	M29	
T 30	20 32 22	7 ⁰ 22'13	19 ⁰ 56	2 ⁰ 24	23 ⁰ 8	14 ⁰ 49	2 ⁰ 0	10 ⁰ 51	23 ⁰ 51	29 ⁰ 38	20 ⁰ 42	11 ⁰ 24	11 ⁰ 26	8 ⁰ 42	7 ⁰ 48	T 30	
W31	20 36 18	8 ⁰ Ω19'34	3 ⁰ Δ58	3 ⁰ 11045	24 ⁰ II12	15 ⁰ 827	2 ⁰ 115	10 ⁰ II57	23 ⁰ 1151	29 ⁰ Δ37	20 ⁰ II43	11 ⁰ Ω23	11 ⁰ Ω23	8 ⁰ Δ49	7 ⁰ 1151	W31	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂			
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ASTRODIENST EPHEMERIS for the year 2148
geocentric

AUGUST 2148

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 40 15	9♌16°54	18♋18	5♊4	25♋16	16♌6	2♍11	11♎2	23°R51	29°R36	20♋44	11°D23	11♌19	8♎55	7♍54	T 1
F 2	20 44 11	10°14'16	2♋49	6°21	26°21	16°44	2°17	11°7	23°D51	29°♌34	20°45	11♌23	11°16	9°2	7°56	F 2
S 3	20 48 8	11°11'38	17°27	7°36	27°26	17°22	2°23	11°12	23♍51	29°33	20°46	11°R24	11°13	9°9	7°59	S 3
S 4	20 52 5	12°9'02	2♊5	8°49	28°31	18°0	2°29	11°17	23°51	29°32	20°47	11°24	11°10	9°16	8°2	S 4
M 5	20 56 1	13°6'27	16°38	9°59	29°36	18°38	2°36	11°22	23°51	29°31	20°48	11°23	11°7	9°22	8°6	M 5
T 6	20 59 58	14°3'52	1♌0	11°7	0♌42	19°16	2°42	11°27	23°51	29°30	20°49	11°23	11°4	9°29	8°9	T 6
W 7	21 3 54	15°1'19	15°10	12°13	1°47	19°53	2°49	11°32	23°51	29°29	20°50	11°D23	11°0	9°36	8°12	W 7
T 8	21 7 51	15°58'48	29°4	13°16	2°53	20°31	2°55	11°37	23°52	29°28	20°51	11°23	10°57	9°42	8°16	T 8
F 9	21 11 47	16°56'18	12♋42	14°16	3°59	21°8	3°2	11°42	23°52	29°27	20°52	11°24	10°54	9°49	8°19	F 9
S 10	21 15 44	17°53'49	26°4	15°14	5°5	21°45	3°9	11°46	23°53	29°26	20°52	11°24	10°51	9°56	8°23	S 10
S 11	21 19 40	18°51'21	9♌12	16°9	6°12	22°22	3°16	11°51	23°53	29°25	20°53	11°25	10°48	10°3	8°27	S 11
M12	21 23 37	19°48'55	22°5	17°0	7°18	22°58	3°24	11°55	23°54	29°24	20°54	11°25	10°45	10°9	8°30	M12
T 13	21 27 34	20°46'29	4♌45	17°49	8°25	23°34	3°31	12°0	23°54	29°23	20°55	11°26	10°41	10°16	8°34	T 13
W14	21 31 30	21°44'05	17°13	18°34	9°32	24°11	3°39	12°4	23°55	29°23	20°56	11°R26	10°38	10°23	8°38	W14
T 15	21 35 27	22°41'42	29°30	19°16	10°39	24°46	3°46	12°8	23°55	29°22	20°56	11°25	10°35	10°29	8°42	T 15
F 16	21 39 23	23°39'21	11♊37	19°54	11°46	25°22	3°54	12°12	23°56	29°21	20°57	11°24	10°32	10°36	8°47	F 16
S 17	21 43 20	24°37'00	23°36	20°28	12°53	25°58	4°2	12°16	23°57	29°20	20°58	11°23	10°29	10°43	8°51	S 17
S 18	21 47 16	25°34'40	5♎30	20°58	14°1	26°33	4°10	12°20	23°58	29°20	20°58	11°21	10°25	10°49	8°55	S 18
M19	21 51 13	26°32'22	17°21	21°23	15°9	27°8	4°18	12°24	23°59	29°19	20°59	11°18	10°22	10°56	9°0	M19
T 20	21 55 9	27°30'04	29°12	21°44	16°16	27°43	4°27	12°28	24°0	29°18	21°0	11°16	10°19	11°3	9°4	T 20
W21	21 59 6	28°27'48	11♋8	22°1	17°24	28°17	4°35	12°32	24°1	29°17	21°0	11°15	10°16	11°10	9°9	W21
T 22	22 3 3	29°25'33	23°11	22°12	18°32	28°51	4°44	12°35	24°2	29°17	21°1	11°14	10°13	11°16	9°14	T 22
F 23	22 6 59	0♊23°19	5♌28	22°17	19°41	29°25	4°52	12°39	24°3	29°16	21°2	11°D14	10°10	11°23	9°18	F 23
S 24	22 10 56	1°21'06	18°1	22°R18	20°49	29°59	5°1	12°42	24°4	29°16	21°2	11°15	10°6	11°30	9°23	S 24
S 25	22 14 52	2°18'54	0♌56	22°12	21°57	0♋33	5°10	12°45	24°5	29°15	21°3	11°16	10°3	11°36	9°28	S 25
M26	22 18 49	3°16'44	14°15	22°1	23°6	1°6	5°19	12°49	24°6	29°15	21°3	11°17	10°0	11°43	9°33	M26
T 27	22 22 45	4°14'34	28°0	21°44	24°15	1°39	5°28	12°52	24°8	29°14	21°4	11°18	9°57	11°50	9°39	T 27
W28	22 26 42	5°12'26	12♋11	21°21	25°24	2°12	5°37	12°55	24°9	29°14	21°4	11°R19	9°54	11°56	9°44	W28
T 29	22 30 38	6°10'20	26°45	20°52	26°33	2°44	5°46	12°58	24°10	29°13	21°5	11°18	9°50	12°3	9°49	T 29
F 30	22 34 35	7°8'14	11♋37	20°17	27°42	3°16	5°56	13°0	24°12	29°13	21°5	11°16	9°47	12°10	9°54	F 30
S 31	22 38 32	8♊6°11	26♋39	19♊37	28♌51	3♋48	6♍5	13♎3	24♍13	29♌13	21♋6	11♌13	9♎44	12♎17	10♍0	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17n55	15s56	0s38	9n33	0s 6	20n46	2s34	14n52	1s52	11s11	1n 6	20n18	1s47	18s29	0n14	22s12	1n13	13n50	9s17	17n21	17n22	0n28	12s34	1n39	
F 2	17 40	12 16	1 56	8 55	0 16	20 51	2 31	15 3	1 51	11 13	1 6	20 19	1 47	18 29	0 14	22 12	1 13	13 50	9 17	17 21	17 23	0 26	12 34	1 40	
S 3	17 24	7 49	3 7	8 18	0 26	20 56	2 28	15 14	1 51	11 16	1 6	20 20	1 47	18 29	0 14	22 12	1 13	13 50	9 17	17 21	17 24	0 23	12 35	1 40	
S 4	17 8	2 56	4 6	7 42	0 36	21 0	2 25	15 25	1 50	11 18	1 6	20 20	1 48	18 29	0 14	22 12	1 13	13 50	9 17	17 21	17 25	0 21	12 36	1 40	
M 5	16 52	2n 6	4 48	7 6	0 47	21 3	2 22	15 36	1 50	11 20	1 5	20 21	1 48	18 29	0 14	22 12	1 13	13 50	9 17	17 21	17 25	0 19	12 37	1 40	
T 6	16 36	6 56	5 12	6 30	0 58	21 6	2 19	15 46	1 49	11 23	1 5	20 21	1 48	18 29	0 14	22 12	1 13	13 50	9 17	17 21	17 26	0 17	12 38	1 40	
W 7	16 19	11 19	5 16	5 55	1 8	21 9	2 15	15 57	1 49	11 25	1 5	20 22	1 48	18 29	0 14	22 12	1 13	13 50	9 17	17 21	17 27	0 15	12 39	1 40	
T 8	16 2	15 1	5 2	5 21	1 19	21 11	2 12	16 7	1 49	11 28	1 5	20 22	1 48	18 29	0 14	22 12	1 13	13 50	9 17	17 21	17 28	0 12	12 40	1 40	
F 9	15 45	17 49	4 31	4 48	1 30	21 13	2 9	16 17	1 48	11 30	1 4	20 23	1 48	18 30	0 14	22 12	1 13	13 50	9 18	17 21	17 29	0 10	12 41	1 40	
S 10	15 27	19 36	3 46	4 15	1 41	21 14	2 5	16 27	1 48	11 33	1 4	20 23	1 48	18 30	0 14	22 12	1 13	13 50	9 18	17 21	17 30	0 8	12 42	1 41	
S 11	15 10	20 17	2 49	3 44	1 53	21 15	2 2	16 37	1 47	11 35	1 4	20 24	1 48	18 30	0 14	22 12	1 13	13 50	9 18	17 20	17 31	0 6	12 43	1 41	
M12	14 52	19 53	1 45	3 13	2 4	21 15	1 58	16 47	1 46	11 38	1 4	20 24	1 48	18 30	0 14	22 12	1 13	13 50	9 18	17 20	17 32	0 4	12 44	1 41	
T 13	14 33	18 28	0 37	2 44	2 15	21 15	1 55	16 56	1 46	11 41	1 4	20 25	1 49	18 30	0 14	22 12	1 13	13 50	9 18	17 20	17 32	0 1	12 45	1 41	
W14	14 15	16 10	0n32	2 16	2 26	21 14	1 51	17 6	1 45	11 44	1 3	20 25	1 49	18 30	0 14	22 12	1 13	13 49	9 18	17 20	17 33	0s 1	12 46	1 41	
T 15	13 56	13 11	1 38	1 50	2 38	21 12	1 48	17 15	1 45	11 46	1 3	20 26	1 49	18 31	0 14	22 12	1 13	13 49	9 18	17 20	17 34	0 3	12 48	1 41	
F 16	13 37	9 39	2 39	1 25	2 49	21 10	1 44	17 24	1 44	11 49	1 3	20 26	1 49	18 31	0 14	22 12	1 13	13 49	9 18	17 21	17 35	0 5	12 49	1 41	
S 17	13 18	5 48	3 33	1 1	3 0	21 8	1 40	17 33	1 43	11 52	1 3	20 27	1 49	18 31	0 14	22 12	1 13	13 49	9 19	17 21	17 36	0 7	12 50	1 41	
S 18	12 59	1 44	4 16	0 40	3 10	21 5	1 37	17 42	1 43	11 55	1 2	20 27	1 49	18 31	0 14	22 12	1 13	13 49	9 19	17 22	17 37	0 10	12 51	1 42	
M19	12 39	2s22	4 49	0 20	3 21	21 1	1 33	17 51	1 42	11 58	1 2	20 27	1 49	18 31	0 14	22 12	1 13	13 49	9 19	17 22	17 38	0 12	12 53	1 42	
T 20	12 20	6 22	5 9	0 3	3 31	20 57	1 29	17 59	1 41	12 1	1 2	20 28	1 49	18 32	0 14	22 12	1 12	13 49	9 19	17 23	17 38	0 14	12 54	1 42	
W21	12 0	10 9	5 16	0s13	3 41	20 52	1 26	18 7	1 41	12 4	1 2	20 28	1 50	18 32	0 14	22 13	1 12	13 49	9 19	17 23	17 39	0 16	12 55	1 42	
T 22	11 40	13 34	5 9	0 26	3 50	20 47	1 22	18 16	1 40	12 7	1 2	20 28	1 50	18 32	0 14	22 13	1 12	13 49	9 19	17 23	17 40	0 18	12 57	1 42	
F 23	11 20	16 28	4 48	0 36	3 59	20 41	1 18	18 24	1 39	12 10	1 1	20 29	1 50	18 32	0 14	22 13	1 12	13 49	9 19	17 23	17 41	0 21	12 58	1 42	
S 24	10 59	18 41	4 13	0 43	4 7	20 35	1 14	18 32	1 38	12 13	1 1	20 29	1 50	18 33	0 14	22 13	1 12	13 49	9 20	17 23	17 42	0 23	13 0	1 42	
S 25	10 38	20 0	3 24	0 48	4 14	20 28	1 11	18 39	1 38	12 16	1 1	20 29	1 50	18 33	0 14	22 13	1 12	13 48	9 20	17 23	17 43	0 25	13 1	1 42	
M26	10 18	20 17	2 24	0 49	4 20	20 21	1 7	18 47	1 37	12 19	1 1	20 30	1 50	18 33	0 14	22 13	1 12	13 48	9 20	17 23	17 44	0 27	13 2	1 43	
T 27	9 57	19 21	1 13	0 47	4 25	20 13	1 3	18 54	1 36	12 23	1 1	20 30	1 50	18 34	0 14	22 13	1 12	13 48	9 20	17 22	17 44	0 29	13 4	1 43	
W28	9 36	17 12	0s 5	0 42	4 29	20 4	0 59	19 2	1 35	12 26	1 0	20 30	1 50	18 34	0 14	22 13	1 12	13 48	9 20	17 22	17 45	0 32	13 5	1 43	
T 29	9 14	13 54	1 24	0 33	4 32	19 55	0 56	19 9	1 34	12 29	1 0	20 30	1 51	18 34	0 14	22 13	1 12	13 48	9 20	17 22	17 46	0 34	13 7	1 43	
F 30	8 53	9 39	2 39	0 21	4 33	19 45	0 52	19 16	1 33	12 32	1 0	20 31	1 51	18 35	0 14	22 13	1 12	13 48	9 21	17 23	17 47	0 36	13 9	1 43	
S 31	8n31	4s45	3s44	0s 5	4s33	19n35	0s48	19n23	1s33	12s36	1n 0	20n31	1s51	18s35	0n14	22s13	1n12	13n48	9s21	17n24	17n48	0s38	13s10	1n43	

Julian Day Number = 2505813.5, Delta T = 120.69 sec
Ecliptic obliquity = 23°25'06, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°48'59, Lahiri = 25°56'00

ASTRODIENST EPHEMERIS for the year 2148

geocentric

SEPTEMBER 2148

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 42 28	9 ^h 4'08	11 ^h 42	18°R52	0 ^h 1	4 ^h 20	6 ^h 15	13 ^h 6	24 ^h 15	29°R12	21 ^h 6	11°R10	9 ^h 41	12 ^h 23	10 ^h 5	S 1
M 2	22 46 25	10° 2'08	26°37	18 ^h 3	1°10	4°51	6°24	13° 8	24°16	29°R12	21° 7	11 ^h 6	9°38	12°30	10°11	M 2
T 3	22 50 21	11° 0'10	11 ^h 16	17°10	2°20	5°22	6°34	13°11	24°18	29°12	21° 7	11° 3	9°35	12°37	10°17	T 3
W 4	22 54 18	11°58'13	25°35	16°15	3°30	5°53	6°44	13°13	24°20	29°12	21° 7	11° 0	9°31	12°43	10°22	W 4
T 5	22 58 14	12°56'19	9 ^h 30	15°17	4°39	6°23	6°54	13°15	24°21	29°11	21° 8	10°D59	9°28	12°50	10°28	T 5
F 6	23 2 11	13°54'26	23° 3	14°20	5°49	6°53	7° 4	13°17	24°23	29°11	21° 8	10°59	9°25	12°57	10°34	F 6
S 7	23 6 7	14°52'36	6 ^h 14	13°22	7° 0	7°23	7°14	13°20	24°25	29°11	21° 8	11° 1	9°22	13° 4	10°40	S 7
S 8	23 10 4	15°50'47	19° 6	12°27	8°10	7°52	7°25	13°21	24°27	29°11	21° 9	11° 2	9°19	13°10	10°46	S 8
M 9	23 14 0	16°49'01	1 ^h 42	11°35	9°20	8°21	7°35	13°23	24°29	29°11	21° 9	11° 4	9°16	13°17	10°52	M 9
T 10	23 17 57	17°47'16	14° 5	10°48	10°31	8°50	7°45	13°25	24°31	29°D11	21° 9	11°R 4	9°12	13°24	10°58	T 10
W11	23 21 54	18°45'33	26°17	10° 6	11°41	9°18	7°56	13°27	24°33	29°11	21° 9	11° 3	9° 9	13°30	11° 5	W11
T 12	23 25 50	19°43'52	8 ^h 22	9°31	12°52	9°46	8° 6	13°28	24°35	29°11	21°10	11° 0	9° 6	13°37	11°11	T 12
F 13	23 29 47	20°42'13	20°20	9° 4	14° 3	10°14	8°17	13°29	24°37	29°11	21°10	10°55	9° 3	13°44	11°17	F 13
S 14	23 33 43	21°40'36	2 ^h 15	8°45	15°14	10°41	8°28	13°31	24°39	29°11	21°10	10°48	9° 0	13°50	11°24	S 14
S 15	23 37 40	22°39'00	14° 6	8°35	16°24	11° 7	8°39	13°32	24°41	29°11	21°10	10°40	8°56	13°57	11°30	S 15
M16	23 41 36	23°37'27	25°57	8°D33	17°36	11°34	8°50	13°33	24°43	29°12	21°10	10°32	8°53	14° 4	11°37	M16
T 17	23 45 33	24°35'54	7 ^h 49	8°41	18°47	12° 0	9° 1	13°34	24°45	29°12	21°10	10°24	8°50	14°11	11°43	T 17
W18	23 49 29	25°34'24	19°45	8°59	19°58	12°25	9°12	13°35	24°48	29°12	21°10	10°18	8°47	14°17	11°50	W18
T 19	23 53 26	26°32'56	1 ^h 48	9°26	21° 9	12°50	9°23	13°35	24°50	29°12	21°10	10°13	8°44	14°24	11°57	T 19
F 20	23 57 23	27°31'29	14° 2	10° 1	22°21	13°15	9°34	13°36	24°52	29°13	21°R10	10°10	8°41	14°31	12° 4	F 20
S 21	0 1 19	28°30'03	26°31	10°46	23°32	13°39	9°45	13°37	24°55	29°13	21°10	10°D 9	8°37	14°37	12°11	S 21
S 22	0 5 16	29°28'40	9 ^h 31	11°38	24°44	14° 2	9°57	13°37	24°57	29°13	21°10	10° 9	8°34	14°44	12°17	S 22
M23	0 9 12	0 ^h 27'18	22°31	12°38	25°56	14°26	10° 8	13°37	25° 0	29°14	21°10	10°10	8°31	14°51	12°24	M23
T 24	0 13 9	1°25'57	6 ^h 10	13°45	27° 7	14°48	10°20	13°37	25° 2	29°14	21°10	10°R11	8°28	14°58	12°31	T 24
W25	0 17 5	2°24'39	20°18	14°59	28°19	15°10	10°31	13°R38	25° 5	29°15	21°10	10°11	8°25	15° 4	12°38	W25
T 26	0 21 2	3°23'22	4 ^h 52	16°18	29°31	15°32	10°43	13°38	25° 8	29°15	21°10	10° 8	8°21	15°11	12°46	T 26
F 27	0 24 58	4°22'06	19°50	17°43	0 ^h 43	15°53	10°55	13°37	25°10	29°16	21°10	10° 4	8°18	15°18	12°53	F 27
S 28	0 28 55	5°20'53	5 ^h 4	19°12	1°56	16°14	11° 6	13°37	25°13	29°16	21°10	9°57	8°15	15°24	13° 0	S 28
S 29	0 32 52	6°19'42	20°23	20°45	3° 8	16°34	11°18	13°37	25°16	29°17	21° 9	9°49	8°12	15°31	13° 7	S 29
M30	0 36 48	7 ^h 18'32	5 ^h 36	22 ^h 21	4 ^h 20	16 ^h 54	11 ^h 30	13 ^h 36	25 ^h 18	29°R18	21 ^h 9	9 ^h 40	8 ^h 9	15°R38	13 ^h 15	M30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n10	0n26	4s33	0n15	4s31	19n24	0s44	19n29	1s32	12s39	1n 0	20n31	1s51	18s36	0n14	22s13	1n12	13n48	9s21	17n25	17n49	0s41	13s12	1n43			
M 2	7 48	5 32	5 3	0 37	4 27	19 13	0 41	19 36	1 31	12 42	1 0	20 31	1 51	18 36	0 14	22 13	1 12	13 47	9 21	17 26	17 49	0 43	13 13	1 43			
T 3	7 26	10 14	5 13	1 3	4 21	19 1	0 37	19 42	1 30	12 46	0 59	20 31	1 51	18 36	0 14	22 13	1 12	13 47	9 21	17 27	17 50	0 45	13 15	1 44			
W 4	7 4	14 14	5 3	1 32	4 13	18 49	0 33	19 49	1 29	12 49	0 59	20 31	1 51	18 37	0 14	22 13	1 12	13 47	9 21	17 27	17 51	0 47	13 15	1 44			
T 5	6 42	17 19	4 35	2 3	4 4	18 36	0 30	19 55	1 28	12 53	0 59	20 32	1 51	18 37	0 14	22 13	1 12	13 47	9 21	17 28	17 52	0 49	13 18	1 44			
F 6	6 19	19 22	3 53	2 36	3 52	18 23	0 26	20 1	1 27	12 56	0 59	20 32	1 52	18 38	0 14	22 13	1 12	13 47	9 22	17 27	17 53	0 52	13 20	1 44			
S 7	5 57	20 18	2 59	3 10	3 39	18 9	0 22	20 7	1 26	13 0	0 59	20 32	1 52	18 38	0 14	22 13	1 12	13 47	9 22	17 27	17 54	0 54	13 22	1 44			
S 8	5 35	20 8	1 57	3 44	3 24	17 55	0 19	20 13	1 25	13 3	0 58	20 32	1 52	18 39	0 14	22 13	1 12	13 47	9 22	17 27	17 55	0 56	13 24	1 44			
M 9	5 12	18 56	0 51	4 19	3 8	17 40	0 15	20 18	1 23	13 7	0 58	20 32	1 52	18 39	0 14	22 13	1 12	13 46	9 22	17 26	17 55	0 58	13 25	1 44			
T 10	4 49	16 51	0n16	4 53	2 50	17 24	0 12	20 24	1 22	13 10	0 58	20 32	1 52	18 40	0 14	22 13	1 12	13 46	9 22	17 26	17 56	1 1	13 27	1 44			
W11	4 27	14 2	1 22	5 26	2 32	17 8	0 8	20 29	1 21	13 14	0 58	20 32	1 52	18 40	0 14	22 13	1 11	13 46	9 22	17 27	17 57	1 3	13 29	1 45			
T 12	4 4	10 38	2 23	5 57	2 13	16 52	0 5	20 35	1 20	13 17	0 58	20 32	1 52	18 41	0 14	22 14	1 11	13 46	9 23	17 27	17 58	1 5	13 31	1 45			
F 13	3 41	6 50	3 17	6 25	1 53	16 35	0 1	20 40	1 19	13 21	0 58	20 32	1 53	18 41	0 14	22 14	1 11	13 46	9 23	17 29	17 59	1 7	13 32	1 45			
S 14	3 18	2 48	4 2	6 50	1 33	16 18	0n 2	20 45	1 18	13 24	0 57	20 32	1 53	18 42	0 14	22 14	1 11	13 46	9 23	17 31	18 0	1 10	13 34	1 45			
S 15	2 55	1s19	4 36	7 12	1 14	16 0	0 6	20 50	1 16	13 28	0 57	20 32	1 53	18 42	0 13	22 14	1 11	13 46	9 23	17 33	18 0	1 12	13 36	1 45			
M16	2 32	5 23	4 58	7 30	0 55	15 41	0 9	20 55	1 15	13 32	0 57	20 32	1 53	18 43	0 13	22 14	1 11	13 45	9 23	17 35	18 1	1 14	13 38	1 45			
T 17	2 9	9 15	5 8	7 45	0 36	15 23	0 12	20 59	1 14	13 35	0 57	20 32	1 53	18 43	0 13	22 14	1 11	13 45	9 23	17 37	18 2	1 16	13 40	1 45			
W18	1 45	12 46	5 4	7 54	0 19	15 4	0 16	21 4	1 12	13 39	0 57	20 32	1 53	18 44	0 13	22 14	1 11	13 45	9 24	17 39	18 3	1 18	13 42	1 46			
T 19	1 22	15 49	4 47	8 0	0 2	14 44	0 19	21 9	1 11	13 43	0 57	20 32	1 53	18 45	0 13	22 14	1 11	13 45	9 24	17 40	18 4	1 21	13 44	1 46			
F 20	0 59	18 13	4 16	8 1	0n14	14 24	0 22	21 13	1 10	13 46	0 57	20 32	1 54	18 45	0 13	22 14	1 11	13 45	9 24	17 41	18 5	1 23	13 46	1 46			
S 21	0 36	19 49	3 33	7 58	0 29	14 3	0 25	21 17	1 8	13 50	0 56	20 32	1 54	18 46	0 13	22 14	1 11	13 45	9 24	17 41	18 5	1 25	13 48	1 46			
S 22	0 12	20 28	2 38	7 51	0 43	13 43	0 28	21 21	1 7	13 54	0 56	20 32	1 54	18 46	0 13	22 14	1 11	13 44	9 24	17 41	18 6	1 27	13 50	1 46			
M23	0s11	20 0	1 34	7 40	0 55	13 21	0 31	21 26	1 5	13 57	0 56	20 32	1 54	18 47	0 13	22 14	1 11	13 44	9 24	17 41	18 7	1 30	13 51	1 46			
T 24	0 34	18 22	0 22	7 24	1 6	13 0	0 34	21 30	1 4	14 1	0 56	20 32	1 54	18 48	0 13	22 14	1 11	13 44	9 25	17 41	18 8	1 32	13 53	1 47			
W25	0 57	15 34	0s54	7 5	1 16	12 38	0 37	21 34	1 2	14 5	0 56	20 31	1 54	18 48	0 13	22 14	1 11	13 44	9 25	17 41	18 9	1 34	13 55	1 47			
T 26	1 21	11 43	2 9	6 42	1 25	12 15	0 40	21 38	1 1	14 9	0 56	20 31	1 54	18 49	0 13	22 14	1 11	13 44	9 25	17 41	18 10	1 36	13 57	1 47			
F 27	1 44	7 1	3 16	6 16	1 32	11 52	0 43	21 41	0 59	14 12	0 56	20 31	1 55	18 50	0 13	22 14	1 11	13 44	9 25	17 43	18 10	1 39	13 59	1 47			
S 28	2 77	1 50	4 11	5 47	1 38	11 29	0 45	21 45	0 58	14 16	0 55	20 31	1 55	18 50	0 13	22 14	1 11	13 43	9 25	17 44	18 11	1 41	14 1	1 47			
S 29	2 31	3n31	4 48	5 15	1 44	11 6	0 48	21 49	0 56	14 20	0 55	20 31	1 55	18 51	0 13	22 14	1 11	13 43	9 25	17 47	18 12	1 43	14 3	1 47			
M30	2s54	8n36	5s 4	4n41	1n48	10n42	0n51	21n52	0s54	14s24	0n55	20n31	1s55	18s52	0n13	22s14	1n11	13n43	9s26	17n49	18n13	1s45	14s 5	1n48			

ASTRODIENST EPHEMERIS for the year 2148

geocentric

OCTOBER 2148

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 40 45	8♌17'25	20♋33	24♏0	5♏32	17♏13	11♏42	13°R36	25♏21	29♏18	21°R 9	9°R32	8♏6	15♌45	13♏22	T 1
W 2	0 44 41	9°16'21	5♏6	25°41	6°45	17°31	11°54	13°II35	25°24	29°19	21°II 9	9♏26	8° 2	15°51	13°29	W 2
T 3	0 48 38	10°15'18	19°11	27°24	7°57	17°49	12° 6	13°34	25°27	29°20	21° 9	9°22	7°59	15°58	13°37	T 3
F 4	0 52 34	11°14'18	2♏47	29° 8	9°10	18° 7	12°18	13°33	25°30	29°20	21° 8	9°20	7°56	16° 5	13°44	F 4
S 5	0 56 31	12°13'20	15°57	0♌54	10°23	18°23	12°30	13°32	25°33	29°21	21° 8	9°D19	7°53	16°11	13°52	S 5
S 6	1 0 27	13°12'25	28°43	2°40	11°36	18°40	12°43	13°31	25°36	29°22	21° 8	9°20	7°50	16°18	13°59	S 6
M 7	1 4 24	14°11'31	11♏11	4°26	12°49	18°55	12°55	13°30	25°39	29°23	21° 7	9°R20	7°47	16°25	14° 7	M 7
T 8	1 8 20	15°10'40	23°24	6°13	14° 1	19°10	13° 7	13°29	25°42	29°24	21° 7	9°19	7°43	16°32	14°15	T 8
W 9	1 12 17	16° 9'52	5♏27	8° 0	15°14	19°24	13°20	13°27	25°45	29°25	21° 7	9°16	7°40	16°38	14°22	W 9
T 10	1 16 14	17° 9'05	17°23	9°47	16°28	19°37	13°32	13°26	25°48	29°26	21° 6	9°10	7°37	16°45	14°30	T 10
F 11	1 20 10	18° 8'20	29°15	11°33	17°41	19°50	13°44	13°24	25°51	29°27	21° 6	9° 1	7°34	16°52	14°38	F 11
S 12	1 24 7	19° 7'38	11♌6	13°20	18°54	20° 2	13°57	13°22	25°54	29°28	21° 5	8°50	7°31	16°58	14°45	S 12
S 13	1 28 3	20° 6'58	22°58	15° 5	20° 7	20°14	14° 9	13°20	25°57	29°29	21° 5	8°37	7°27	17° 5	14°53	S 13
M14	1 32 0	21° 6'19	4♏51	16°51	21°21	20°24	14°22	13°18	26° 0	29°30	21° 4	8°23	7°24	17°12	15° 1	M14
T 15	1 35 56	22° 5'43	16°47	18°35	22°34	20°34	14°35	13°16	26° 4	29°31	21° 4	8°10	7°21	17°19	15° 9	T 15
W16	1 39 53	23° 5'09	28°48	20°20	23°47	20°43	14°47	13°14	26° 7	29°32	21° 3	7°58	7°18	17°25	15°17	W16
T 17	1 43 49	24° 4'37	10♏55	22° 3	25° 1	20°52	15° 0	13°12	26°10	29°33	21° 3	7°49	7°15	17°32	15°25	T 17
F 18	1 47 46	25° 4'06	23°12	23°46	26°15	20°59	15°13	13° 9	26°14	29°34	21° 2	7°42	7°12	17°39	15°33	F 18
S 19	1 51 43	26° 3'37	5♏41	25°28	27°28	21° 6	15°26	13° 7	26°17	29°36	21° 2	7°38	7° 8	17°45	15°41	S 19
S 20	1 55 39	27° 3'10	18°26	27°10	28°42	21°12	15°38	13° 4	26°20	29°37	21° 1	7°37	7° 5	17°52	15°49	S 20
M21	1 59 36	28° 2'45	1♏31	28°51	29°56	21°17	15°51	13° 2	26°24	29°38	21° 0	7°36	7° 2	17°59	15°57	M21
T 22	2 3 32	29° 2'22	15° 0	0♏31	1♌9	21°22	16° 4	12°59	26°27	29°39	21° 0	7°36	6°59	18° 6	16° 5	T 22
W23	2 7 29	0♏2'00	28°56	2°11	2°23	21°25	16°17	12°56	26°30	29°41	20°59	7°35	6°56	18°12	16°13	W23
T 24	2 11 25	1° 1'40	13♏19	3°50	3°37	21°28	16°30	12°53	26°34	29°42	20°58	7°32	6°53	18°19	16°21	T 24
F 25	2 15 22	2° 1'21	28° 7	5°29	4°51	21°30	16°43	12°50	26°37	29°43	20°58	7°26	6°49	18°26	16°29	F 25
S 26	2 19 18	3° 1'04	13♏15	7° 7	6° 5	21°31	16°56	12°47	26°41	29°45	20°57	7°17	6°46	18°32	16°37	S 26
S 27	2 23 15	4° 0'49	28°33	8°44	7°19	21°R31	17° 9	12°44	26°44	29°46	20°56	7° 6	6°43	18°39	16°45	S 27
M28	2 27 12	5° 0'37	13♏50	10°21	8°33	21°30	17°22	12°41	26°48	29°48	20°55	6°55	6°40	18°46	16°54	M28
T 29	2 31 8	6° 0'26	28°55	11°57	9°47	21°29	17°35	12°37	26°51	29°49	20°55	6°44	6°37	18°53	17° 2	T 29
W30	2 35 5	7° 0'17	13♏38	13°33	11° 2	21°27	17°48	12°34	26°55	29°51	20°54	6°35	6°33	18°59	17°10	W30
T 31	2 39 1	8♏0'10	27♏53	15♏8	12♌16	21♏23	18♏1	12♏30	26♏58	29♏52	20♏53	6♏28	6♏30	19♌6	17♏18	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	3s17	13n 4	4s59	4n 4	1n51	10n18	0n53	21n56	0s53	14s27	0n55	20n30	1s55	18s52	0n13	22s14
W 2	3 40	16 37	4 35	3 26	1 53	9 53	0 56	21 59	0 51	14 31	0 55	20 30	1 55	18 53	0 13	22 15
T 3	4 3	19 5	3 55	2 46	1 54	9 29	0 58	22 3	0 49	14 35	0 55	20 30	1 55	18 54	0 13	22 15
F 4	4 27	20 21	3 2	2 5	1 54	9 4	1 1	22 6	0 47	14 39	0 55	20 30	1 55	18 54	0 13	22 15
S 5	4 50	20 27	2 1	1 23	1 53	8 38	1 3	22 9	0 46	14 43	0 55	20 30	1 56	18 55	0 13	22 15
S 6	5 13	19 29	0 56	0 39	1 52	8 13	1 5	22 13	0 44	14 46	0 54	20 29	1 56	18 56	0 13	22 15
M 7	5 36	17 34	0n10	0s 4	1 50	7 47	1 7	22 16	0 42	14 50	0 54	20 29	1 56	18 57	0 13	22 15
T 8	5 58	14 53	1 14	0 49	1 48	7 21	1 9	22 19	0 40	14 54	0 54	20 29	1 56	18 57	0 13	22 15
W 9	6 21	11 35	2 14	1 34	1 45	6 55	1 11	22 22	0 38	14 58	0 54	20 28	1 56	18 58	0 13	22 15
T 10	6 44	7 52	3 8	2 19	1 41	6 28	1 13	22 25	0 36	15 2	0 54	20 28	1 56	18 59	0 13	22 15
F 11	7 6	3 51	3 52	3 4	1 38	6 1	1 15	22 28	0 34	15 6	0 54	20 28	1 56	19 0	0 13	22 15
S 12	7 29	0s18	4 27	3 49	1 33	5 34	1 17	22 31	0 32	15 9	0 54	20 28	1 56	19 0	0 13	22 15
S 13	7 51	4 26	4 50	4 35	1 29	5 7	1 19	22 34	0 30	15 13	0 54	20 27	1 57	19 1	0 13	22 15
M14	8 14	8 25	5 0	5 20	1 24	4 40	1 21	22 37	0 27	15 17	0 54	20 27	1 57	19 2	0 13	22 15
T 15	8 36	12 5	4 57	6 4	1 18	4 12	1 22	22 40	0 25	15 21	0 53	20 26	1 57	19 3	0 13	22 15
W16	8 58	15 18	4 41	6 49	1 13	3 45	1 24	22 43	0 23	15 25	0 53	20 26	1 57	19 3	0 13	22 15
T 17	9 20	17 54	4 13	7 33	1 7	3 17	1 25	22 46	0 21	15 28	0 53	20 26	1 57	19 4	0 13	22 15
F 18	9 42	19 43	3 32	8 16	1 1	2 49	1 26	22 48	0 18	15 32	0 53	20 25	1 57	19 5	0 13	22 15
S 19	10 3	20 38	2 40	8 59	0 55	2 21	1 28	22 51	0 16	15 36	0 53	20 25	1 57	19 6	0 13	22 15
S 20	10 25	20 30	1 40	9 42	0 49	1 53	1 29	22 54	0 14	15 40	0 53	20 25	1 57	19 7	0 13	22 15
M21	10 46	19 17	0 32	10 24	0 42	1 24	1 30	22 57	0 11	15 44	0 53	20 24	1 57	19 7	0 13	22 15
T 22	11 7	16 57	0s39	11 5	0 36	0 56	1 31	23 0	0 9	15 47	0 53	20 24	1 57	19 8	0 13	22 15
W23	11 28	13 33	1 50	11 46	0 29	0 28	1 32	23 2	0 6	15 51	0 53	20 23	1 58	19 9	0 13	22 16
T 24	11 49	9 16	2 57	12 26	0 22	0s 1	1 33	23 5	0 4	15 55	0 53	20 23	1 58	19 10	0 13	22 16
F 25	12 10	4 19	3 53	13 5	0 16	0 29	1 34	23 8	0 1	15 59	0 52	20 22	1 58	19 11	0 13	22 16
S 26	12 30	1n 1	4 34	13 44	0 9	0 58	1 35	23 10	0n 2	16 2	0 52	20 22	1 58	19 11	0 13	22 16
S 27	12 51	6 19	4 57	14 22	0 2	1 27	1 35	23 13	0 4	16 6	0 52	20 21	1 58	19 12	0 13	22 16
M28	13 11	11 14	4 58	14 59	0s 5	1 55	1 36	23 16	0 7	16 10	0 52	20 21	1 58	19 13	0 13	22 16
T 29	13 31	15 22	4 38	15 35	0 12	2 24	1 36	23 18	0 10	16 14	0 52	20 20	1 58	19 14	0 13	22 16
W30	13 50	18 26	4 0	16 11	0 18	2 52	1 37	23 21	0 12	16 17	0 52	20 20	1 58	19 15	0 13	22 16
T 31	14s10	20n16	3s 8	16s46	0s25	3s21	1n37	23n24	0n15	16s21	0n52	20n19	1s58	19s15	0n13	22s16

Julian Day Number = 2505874.5, Delta T = 120.81 sec
 Ecliptic obliquity = 23°25'07, Nutation = - 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°49'08, Lahiri = 25°56'08

ASTRODIENST EPHEMERIS for the year 2148
geocentric

NOVEMBER 2148

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 42 58	9♉ 0'06	11♊38	16♉43	13♊30	21°R19	18♉14	12°R27	27♉ 2	29♊54	20°R52	6°R24	6♊27	19♊13	17♉26	F 1
S 2	2 46 54	10° 0'04	24°54	18°17	14°45	21♊14	18°27	12♊23	27° 6	29°56	20♊51	6♊23	6°24	19°19	17°35	S 2
S 3	2 50 51	11° 0'04	7♊43	19°51	15°59	21° 8	18°41	12°19	27° 9	29°57	20°51	6°23	6°21	19°26	17°43	S 3
M 4	2 54 47	12° 0'06	20°10	21°24	17°13	21° 1	18°54	12°15	27°13	29°59	20°50	6°22	6°18	19°33	17°51	M 4
T 5	2 58 44	13° 0'10	2♉21	22°57	18°28	20°53	19° 7	12°11	27°17	0♊ 0	20°49	6°21	6°14	19°40	17°59	T 5
W 6	3 2 41	14° 0'16	14°21	24°29	19°42	20°45	19°20	12° 7	27°20	0° 2	20°48	6°18	6°11	19°46	18° 8	W 6
T 7	3 6 37	15° 0'24	26°14	26° 1	20°57	20°35	19°33	12° 3	27°24	0° 4	20°47	6°12	6° 8	19°53	18°16	T 7
F 8	3 10 34	16° 0'34	8♊ 4	27°33	22°11	20°25	19°47	11°59	27°27	0° 6	20°46	6° 3	6° 5	20° 0	18°24	F 8
S 9	3 14 30	17° 0'46	19°54	29° 4	23°26	20°13	20° 0	11°55	27°31	0° 7	20°45	5°51	6° 2	20° 6	18°32	S 9
S10	3 18 27	18° 1'00	1♉48	0♊35	24°41	20° 1	20°13	11°51	27°35	0° 9	20°44	5°38	5°58	20°13	18°41	S10
M11	3 22 23	19° 1'16	13°46	2° 6	25°55	19°48	20°26	11°46	27°39	0°11	20°43	5°23	5°55	20°20	18°49	M11
T12	3 26 20	20° 1'34	25°50	3°36	27°10	19°34	20°39	11°42	27°42	0°13	20°42	5° 9	5°52	20°27	18°57	T12
W13	3 30 16	21° 1'54	8♊ 1	5° 6	28°25	19°20	20°53	11°38	27°46	0°15	20°41	4°57	5°49	20°33	19° 5	W13
T14	3 34 13	22° 2'15	20°19	6°35	29°40	19° 4	21° 6	11°33	27°50	0°16	20°40	4°47	5°46	20°40	19°14	T14
F15	3 38 10	23° 2'37	2♊47	8° 4	0♉55	18°48	21°19	11°29	27°53	0°18	20°39	4°40	5°43	20°47	19°22	F15
S16	3 42 6	24° 3'02	15°25	9°32	2° 9	18°31	21°32	11°24	27°57	0°20	20°38	4°35	5°39	20°53	19°30	S16
S17	3 46 3	25° 3'27	28°16	11° 0	3°24	18°14	21°46	11°20	28° 1	0°22	20°37	4°34	5°36	21° 0	19°38	S17
M18	3 49 59	26° 3'54	11♊22	12°28	4°39	17°56	21°59	11°15	28° 5	0°24	20°36	4°D34	5°33	21° 7	19°47	M18
T19	3 53 56	27° 4'22	24°47	13°55	5°54	17°37	22°12	11°10	28° 8	0°26	20°35	4°R34	5°30	21°14	19°55	T19
W20	3 57 52	28° 4'52	8♊33	15°21	7° 9	17°18	22°25	11° 6	28°12	0°28	20°34	4°34	5°27	21°20	20° 3	W20
T21	4 1 49	29° 5'22	22°41	16°47	8°24	16°58	22°39	11° 1	28°16	0°30	20°33	4°31	5°24	21°27	20°11	T21
F22	4 5 45	0♊ 5'54	7♊11	18°12	9°39	16°37	22°52	10°56	28°19	0°32	20°32	4°27	5°20	21°34	20°19	F22
S23	4 9 42	1° 6'27	21°59	19°36	10°54	16°16	23° 5	10°51	28°23	0°34	20°31	4°20	5°17	21°41	20°28	S23
S24	4 13 39	2° 7'01	6♊58	21° 0	12° 9	15°55	23°18	10°46	28°27	0°36	20°30	4°11	5°14	21°47	20°36	S24
M25	4 17 35	3° 7'37	22° 0	22°22	13°24	15°34	23°31	10°41	28°31	0°38	20°29	4° 1	5°11	21°54	20°44	M25
T26	4 21 32	4° 8'14	6♉55	23°43	14°39	15°12	23°44	10°37	28°34	0°40	20°28	3°51	5° 8	22° 1	20°52	T26
W27	4 25 28	5° 8'53	21°35	25° 3	15°54	14°49	23°58	10°32	28°38	0°42	20°27	3°44	5° 4	22° 7	21° 0	W27
T28	4 29 25	6° 9'33	5♊51	26°22	17° 9	14°27	24°11	10°27	28°42	0°44	20°26	3°38	5° 1	22°14	21° 8	T28
F29	4 33 21	7°10'14	19°40	27°39	18°24	14° 4	24°24	10°22	28°45	0°47	20°24	3°35	4°58	22°21	21°16	F29
S30	4 37 18	8♊10'57	3♊ 2	28♊54	19♉40	13♊41	24♉37	10♊17	28♉49	0♊49	20♊23	3°D34	4♊55	22♊28	21♉24	S30

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
F 1	14s29	20n48	2s 7	17s19	0s32	3s50	1n38	23n26	0n18	16s25	0n52	20n19	1s58	19s16	0n13	22s16	1n 9	13n38	9s30	18n39	18n39	2s58	15s12	1n54	
S 2	14 48	20 9	1 0	17 52	0 38	4 18	1 38	23 29	0 21	16 28	0 52	20 18	1 58	19 17	0 13	22 16	1 9	13 38	9 30	18 40	18 39	3 0	15 14	1 54	
S 3	15 7	18 26	0n 7	18 24	0 45	4 47	1 38	23 31	0 24	16 32	0 52	20 18	1 58	19 18	0 13	22 16	1 9	13 37	9 30	18 40	18 40	3 2	15 16	1 54	
M 4	15 25	15 53	1 12	18 55	0 51	5 15	1 38	23 34	0 27	16 36	0 52	20 17	1 58	19 19	0 13	22 16	1 9	13 37	9 30	18 40	18 41	3 5	15 18	1 55	
T 5	15 44	12 42	2 13	19 25	0 58	5 43	1 38	23 36	0 30	16 39	0 52	20 17	1 58	19 20	0 13	22 16	1 9	13 37	9 30	18 40	18 42	3 7	15 20	1 55	
W 6	16 2	9 1	3 6	19 55	1 4	6 11	1 38	23 38	0 33	16 43	0 52	20 16	1 58	19 21	0 13	22 16	1 9	13 37	9 30	18 41	18 43	3 9	15 22	1 55	
T 7	16 19	5 2	3 51	20 23	1 10	6 40	1 38	23 41	0 36	16 47	0 52	20 16	1 58	19 21	0 13	22 16	1 9	13 37	9 30	18 42	18 43	3 11	15 24	1 55	
F 8	16 37	0 52	4 26	20 50	1 16	7 8	1 37	23 43	0 39	16 50	0 51	20 15	1 58	19 22	0 13	22 16	1 9	13 37	9 30	18 45	18 44	3 14	15 26	1 56	
S 9	16 54	3s19	4 49	21 16	1 22	7 35	1 37	23 45	0 42	16 54	0 51	20 14	1 58	19 23	0 13	22 16	1 9	13 37	9 30	18 48	18 45	3 16	15 28	1 56	
S 10	17 11	7 24	4 59	21 41	1 28	8 3	1 37	23 47	0 45	16 58	0 51	20 14	1 59	19 24	0 13	22 16	1 9	13 36	9 31	18 51	18 46	3 18	15 30	1 56	
M11	17 28	11 14	4 57	22 5	1 34	8 31	1 36	23 50	0 48	17 1	0 51	20 13	1 59	19 25	0 13	22 16	1 9	13 36	9 31	18 54	18 47	3 20	15 32	1 56	
T 12	17 44	14 39	4 41	22 28	1 39	8 58	1 36	23 52	0 51	17 5	0 51	20 13	1 59	19 26	0 13	22 16	1 9	13 36	9 31	18 58	18 47	3 23	15 34	1 57	
W13	18 0	17 28	4 12	22 50	1 44	9 25	1 35	23 54	0 54	17 8	0 51	20 12	1 59	19 26	0 13	22 16	1 9	13 36	9 31	19 1	18 48	3 25	15 36	1 57	
T 14	18 16	19 33	3 32	23 11	1 49	9 52	1 35	23 55	0 57	17 12	0 51	20 11	1 59	19 27	0 13	22 16	1 9	13 36	9 31	19 3	18 49	3 27	15 38	1 57	
F 15	18 31	20 43	2 40	23 31	1 54	10 19	1 34	23 57	1 1	17 15	0 51	20 11	1 59	19 28	0 13	22 16	1 9	13 36	9 31	19 5	18 50	3 30	15 40	1 58	
S 16	18 46	20 53	1 40	23 49	1 59	10 45	1 33	23 59	1 4	17 19	0 51	20 10	1 59	19 29	0 13	22 16	1 9	13 36	9 31	19 6	18 50	3 32	15 42	1 58	
S 17	19 1	19 57	0 33	24 6	2 3	11 12	1 32	24 0	1 7	17 22	0 51	20 10	1 59	19 30	0 13	22 16	1 9	13 36	9 31	19 6	18 51	3 34	15 44	1 58	
M18	19 15	17 56	0s36	24 22	2 7	11 38	1 31	24 2	1 10	17 26	0 51	20 9	1 59	19 31	0 13	22 16	1 9	13 35	9 31	19 6	18 52	3 36	15 46	1 58	
T 19	19 29	14 54	1 45	24 37	2 11	12 4	1 30	24 3	1 13	17 29	0 51	20 8	1 59	19 31	0 13	22 16	1 9	13 35	9 31	19 6	18 53	3 39	15 48	1 59	
W20	19 43	10 59	2 50	24 51	2 15	12 29	1 29	24 5	1 16	17 32	0 51	20 8	1 58	19 32	0 13	22 16	1 9	13 35	9 31	19 6	18 54	3 41	15 50	1 59	
T 21	19 56	6 22	3 47	25 3	2 18	12 54	1 28	24 6	1 19	17 36	0 51	20 7	1 58	19 33	0 13	22 17	1 9	13 35	9 31	19 7	18 54	3 43	15 52	1 59	
F 22	20 9	1 17	4 30	25 14	2 21	13 19	1 27	24 7	1 22	17 39	0 51	20 7	1 58	19 34	0 13	22 17	1 9	13 35	9 31	19 8	18 55	3 46	15 53	2 0	
S 23	20 22	3n58	4 57	25 23	2 23	13 44	1 26	24 8	1 25	17 43	0 51	20 6	1 58	19 35	0 12	22 17	1 8	13 35	9 31	19 10	18 56	3 48	15 55	2 0	
S 24	20 34	9 3	5 3	25 32	2 25	14 8	1 24	24 8	1 28	17 46	0 51	20 5	1 58	19 36	0 12	22 17	1 8	13 35	9 31	19 12	18 57	3 50	15 57	2 0	
M25	20 46	13 36	4 49	25 39	2 27	14 32	1 23	24 9	1 31	17 49	0 51	20 5	1 58	19 36	0 12	22 17	1 8	13 35	9 31	19 14	18 57	3 52	15 59	2 0	
T 26	20 57	17 15	4 15	25 44	2 28	14 55	1 21	24 9	1 34	17 52	0 51	20 4	1 58	19 37	0 12	22 17	1 8	13 35	9 31	19 16	18 58	3 55	16 1	2 1	
W27	21 8	19 45	3 25	25 48	2 29	15 19	1 20	24 10	1 37	17 56	0 51	20 3	1 58	19 38	0 12	22 17	1 8	13 35	9 31	19 18	18 59	3 57	16 3	2 1	
T 28	21 19	20 55	2 23	25 51	2 29	15 41	1 18	24 10	1 40	17 59	0 51	20 3	1 58	19 39	0 12	22 17	1 8	13 34	9 31	19 19	19 0	3 59	16 4	2 1	
F 29	21 29	20 46	1 14	25 52	2 29	16 4	1 17	24 10	1 43	18 2	0 51	20 2	1 58	19 40	0 12	22 17	1 8	13 34	9 31	19 20	19 0	4 2	16 6	2 2	
S 30	21s39	19n25	0s 3	25s52	2s28	16s26	1n15	24n10	1n46	18s 5	0n50	20n 1	1s58	19s41	0n12	22s17	1n 8	13n34	9s31	19n20	19n 1	4s 4	16s 8	2n 2	

ASTRODIENST EPHEMERIS for the year 2148
geocentric

DECEMBER 2148

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 41 14	9♂11'42	15♂57	0♂ 7	20♂55	13°R19	24♂50	10°R12	28♂53	0♂51	20°R22	3♂34	4♂52	22♂34	21♂32	S 1
M 2	4 45 11	10°12'28	28°29	1°17	22°10	12♂56	25° 3	10♂ 7	28°56	0°53	20♂21	3°35	4°49	22°41	21°40	M 2
T 3	4 49 8	11°13'15	10♂43	2°25	23°25	12°33	25°16	10° 2	29° 0	0°55	20°20	3°R36	4°45	22°48	21°48	T 3
W 4	4 53 4	12°14'04	22°45	3°29	24°40	12°10	25°29	9°57	29° 4	0°57	20°19	3°35	4°42	22°54	21°56	W 4
T 5	4 57 1	13°14'54	4♂38	4°30	25°56	11°47	25°42	9°52	29° 7	0°59	20°18	3°33	4°39	23° 1	22° 4	T 5
F 6	5 0 57	14°15'46	16°29	5°27	27°11	11°25	25°55	9°47	29°11	1° 2	20°17	3°28	4°36	23° 8	22°12	F 6
S 7	5 4 54	15°16'39	28°21	6°18	28°26	11° 2	26° 8	9°42	29°15	1° 4	20°15	3°21	4°33	23°15	22°20	S 7
S 8	5 8 50	16°17'33	10♂18	7° 4	29°42	10°40	26°21	9°38	29°18	1° 6	20°14	3°12	4°30	23°21	22°27	S 8
M 9	5 12 47	17°18'29	22°22	7°44	0♂57	10°19	26°34	9°33	29°22	1° 8	20°13	3° 3	4°26	23°28	22°35	M 9
T 10	5 16 43	18°19'25	4♂35	8°17	2°12	9°57	26°46	9°28	29°26	1°10	20°12	2°54	4°23	23°35	22°43	T 10
W11	5 20 40	19°20'23	16°58	8°41	3°27	9°36	26°59	9°23	29°29	1°13	20°11	2°46	4°20	23°41	22°51	W11
T 12	5 24 37	20°21'21	29°33	8°58	4°43	9°16	27°12	9°18	29°33	1°15	20°10	2°40	4°17	23°48	22°58	T 12
F 13	5 28 33	21°22'21	12♂18	9°R 4	5°58	8°56	27°25	9°13	29°36	1°17	20° 8	2°36	4°14	23°55	23° 6	F 13
S 14	5 32 30	22°23'21	25°15	9° 0	7°14	8°36	27°37	9° 9	29°40	1°19	20° 7	2°34	4°10	24° 2	23°13	S 14
S 15	5 36 26	23°24'22	8♂24	8°45	8°29	8°17	27°50	9° 4	29°43	1°22	20° 6	2°D34	4° 7	24° 8	23°21	S 15
M16	5 40 23	24°25'24	21°45	8°18	9°44	7°59	28° 2	8°59	29°47	1°24	20° 5	2°35	4° 4	24°15	23°29	M16
T 17	5 44 19	25°26'26	5♂18	7°40	11° 0	7°41	28°15	8°55	29°50	1°26	20° 4	2°36	4° 1	24°22	23°36	T 17
W18	5 48 16	26°27'28	19° 5	6°51	12°15	7°24	28°27	8°50	29°54	1°28	20° 3	2°37	3°58	24°29	23°43	W18
T 19	5 52 12	27°28'31	3°Y 6	5°51	13°30	7° 8	28°40	8°45	29°57	1°31	20° 1	2°R38	3°55	24°35	23°51	T 19
F 20	5 56 9	28°29'34	17°20	4°43	14°46	6°53	28°52	8°41	0♂ 0	1°33	20° 0	2°36	3°51	24°42	23°58	F 20
S 21	6 0 6	29°30'37	1♂45	3°27	16° 1	6°38	29° 5	8°37	0° 4	1°35	19°59	2°33	3°48	24°49	24° 5	S 21
S 22	6 4 2	0♂31'41	16°18	2° 6	17°17	6°24	29°17	8°32	0° 7	1°37	19°58	2°29	3°45	24°55	24°13	S 22
M23	6 7 59	1°32'45	0♂52	0°43	18°32	6°10	29°29	8°28	0°11	1°40	19°57	2°24	3°42	25° 2	24°20	M23
T 24	6 11 55	2°33'49	15°21	29♂21	19°47	5°58	29°41	8°24	0°14	1°42	19°56	2°19	3°39	25° 9	24°27	T 24
W25	6 15 52	3°34'54	29°40	28° 2	21° 3	5°46	29°53	8°19	0°17	1°44	19°55	2°16	3°36	25°16	24°34	W25
T 26	6 19 48	4°35'59	13♂43	26°50	22°18	5°35	0♂ 6	8°15	0°20	1°47	19°54	2°13	3°32	25°22	24°41	T 26
F 27	6 23 45	5°37'05	27°24	25°45	23°34	5°25	0°18	8°11	0°24	1°49	19°52	2°D12	3°29	25°29	24°48	F 27
S 28	6 27 42	6°38'11	10♂44	24°49	24°49	5°16	0°29	8° 7	0°27	1°51	19°51	2°12	3°26	25°36	24°55	S 28
S 29	6 31 38	7°39'18	23°40	24° 3	26° 4	5° 7	0°41	8° 3	0°30	1°53	19°50	2°13	3°23	25°43	25° 2	S 29
M30	6 35 35	8°40'25	6♂17	23°28	27°20	4°59	0°53	7°59	0°33	1°56	19°49	2°15	3°20	25°49	25° 8	M30
T 31	6 39 31	9♂41'32	18♂35	23♂ 4	28♂35	4♂52	1♂ 5	7♂55	0♂36	1♂58	19♂48	2♂16	3♂16	25♂56	25♂15	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
S 1	21s49	17n 6	1n 6	25s51	2s26	16s47	1n13	24n10	1n48	18s 9	0n50	20n 1	1s58	19s41	0n12	22s17
M 2	21 58	14 1	2 10	25 48	2 24	17 8	1 12	24 10	1 51	18 12	0 50	20 0	1 58	19 42	0 12	22 17
T 3	22 6	10 24	3 6	25 44	2 20	17 29	1 10	24 9	1 53	18 15	0 50	20 0	1 58	19 43	0 12	22 17
W 4	22 14	6 26	3 53	25 39	2 16	17 49	1 8	24 9	1 56	18 18	0 50	19 59	1 58	19 44	0 12	22 17
T 5	22 22	2 17	4 29	25 32	2 12	18 9	1 6	24 8	1 58	18 21	0 50	19 58	1 58	19 45	0 12	22 17
F 6	22 29	1s57	4 54	25 24	2 6	18 28	1 4	24 7	2 1	18 24	0 50	19 58	1 58	19 45	0 12	22 17
S 7	22 36	6 7	5 6	25 15	1 59	18 47	1 2	24 7	2 3	18 27	0 50	19 57	1 57	19 46	0 12	22 17
S 8	22 43	10 4	5 5	25 4	1 51	19 5	1 0	24 6	2 5	18 30	0 50	19 56	1 57	19 47	0 12	22 17
M 9	22 49	13 40	4 50	24 53	1 42	19 23	0 58	24 5	2 7	18 33	0 50	19 56	1 57	19 48	0 12	22 17
T 10	22 54	16 44	4 22	24 41	1 31	19 40	0 56	24 4	2 10	18 36	0 50	19 55	1 57	19 49	0 12	22 17
W11	22 59	19 7	3 41	24 27	1 20	19 56	0 54	24 2	2 12	18 39	0 50	19 55	1 57	19 49	0 12	22 17
T 12	23 4	20 36	2 49	24 13	1 7	20 13	0 52	24 1	2 13	18 42	0 50	19 54	1 57	19 50	0 12	22 17
F 13	23 8	21 4	1 48	23 59	0 52	20 28	0 50	24 0	2 15	18 45	0 50	19 53	1 57	19 51	0 12	22 17
S 14	23 12	20 25	0 40	23 43	0 36	20 43	0 48	23 58	2 17	18 48	0 50	19 53	1 57	19 52	0 12	22 17
S 15	23 15	18 40	0s32	23 27	0 19	20 57	0 45	23 57	2 19	18 51	0 50	19 52	1 56	19 52	0 12	22 17
M16	23 18	15 52	1 42	23 11	0 1	21 11	0 43	23 56	2 20	18 53	0 50	19 52	1 56	19 53	0 12	22 17
T 17	23 20	12 10	2 49	22 54	0n18	21 24	0 41	23 54	2 22	18 56	0 50	19 51	1 56	19 54	0 12	22 17
W18	23 22	7 47	3 46	22 37	0 38	21 36	0 38	23 53	2 23	18 59	0 50	19 51	1 56	19 55	0 12	22 17
T 19	23 24	2 55	4 32	22 20	0 58	21 48	0 36	23 52	2 25	19 2	0 50	19 50	1 56	19 55	0 12	22 17
F 20	23 25	2n10	5 1	22 3	1 18	21 59	0 34	23 50	2 26	19 4	0 50	19 50	1 56	19 56	0 12	22 17
S 21	23 25	7 12	5 12	21 46	1 37	22 10	0 31	23 49	2 27	19 7	0 50	19 49	1 56	19 57	0 12	22 17
S 22	23 25	11 51	5 3	21 29	1 55	22 20	0 29	23 48	2 28	19 10	0 50	19 48	1 55	19 57	0 12	22 17
M23	23 25	15 50	4 34	21 13	2 12	22 29	0 27	23 46	2 29	19 12	0 50	19 48	1 55	19 58	0 12	22 17
T 24	23 24	18 50	3 49	20 58	2 27	22 37	0 24	23 45	2 30	19 15	0 50	19 47	1 55	19 59	0 12	22 16
W25	23 22	20 36	2 49	20 45	2 39	22 45	0 22	23 44	2 31	19 17	0 50	19 47	1 55	20 0	0 12	22 16
T 26	23 20	21 4	1 40	20 34	2 49	22 52	0 19	23 43	2 32	19 20	0 50	19 47	1 55	20 0	0 12	22 16
F 27	23 18	20 14	0 26	20 24	2 57	22 59	0 17	23 42	2 33	19 22	0 50	19 46	1 55	20 1	0 12	22 16
S 28	23 15	18 17	0n47	20 17	3 2	23 5	0 14	23 41	2 34	19 25	0 50	19 46	1 54	20 2	0 12	22 16
S 29	23 12	15 26	1 55	20 12	3 5	23 10	0 12	23 40	2 34	19 27	0 50	19 45	1 54	20 2	0 12	22 16
M30	23 8	11 56	2 57	20 10	3 6	23 14	0 10	23 39	2 35	19 30	0 50	19 45	1 54	20 3	0 12	22 16
T 31	23s 4	8n 1	3n48	20s 9	3n 5	23s18	0n 7	23n38	2n36	19s32	0n50	19n44	1s54	20s 4	0n12	22s16

Julian Day Number = 2505935.5, Delta T = 120.92 sec
Ecliptic obliquity = 23°25'06, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°49'16, Lahiri = 25°56'17