



Astrodienst Ephemeris Tables for the year 2178

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 2178
geocentric

JANUARY 2178

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 43 24	10°34'28	25°18	6°36	20°50	0°59	29°53	1°R56	25°24	3°44	22°R15	12°R20	12°21	5°58	4°R 6	T 1
F 2	6 47 21	11°41'35	9°11	8°11	22° 6	1°39	29°55	1°11	25°25	3°46	22°14	12°20	12°18	6° 5	4°R 5	F 2
S 3	6 51 17	12°42'42	24°11	9°46	23°21	2°20	29°57	1°49	25°27	3°47	22°13	12°D20	12°14	6°12	4° 5	S 3
S 4	6 55 14	13°43'50	9° 9	11°22	24°36	3° 0	29°59	1°46	25°28	3°49	22°12	12°R20	12°11	6°18	4° 4	S 4
M 5	6 59 10	14°44'57	24°16	12°58	25°52	3°41	0° 8	1°43	25°30	3°51	22°10	12°20	12° 8	6°25	4° 4	M 5
T 6	7 3 7	15°46'04	9°12	14°34	27° 7	4°22	0° 4	1°41	25°31	3°52	22° 9	12°19	12° 5	6°32	4° 3	T 6
W 7	7 7 4	16°47'12	24°26	16°11	28°22	5° 2	0° 6	1°38	25°33	3°54	22° 8	12°19	12° 2	6°38	4° 3	W 7
T 8	7 11 0	17°48'19	9°12	17°48	29°38	5°43	0° 9	1°35	25°35	3°56	22° 7	12°18	11°59	6°45	4° 2	T 8
F 9	7 14 57	18°49'27	23°35	19°25	0°53	6°23	0°12	1°33	25°36	3°57	22° 5	12°18	11°55	6°52	4° 2	F 9
S 10	7 18 53	19°50'35	7°35	21° 3	2° 8	7° 4	0°16	1°30	25°38	3°59	22° 4	12°17	11°52	6°58	4° 2	S 10
S 11	7 22 50	20°51'43	21° 9	22°41	3°23	7°45	0°19	1°28	25°40	4° 1	22° 3	12°D17	11°49	7° 5	4° 2	S 11
M12	7 26 46	21°52'51	4°20	24°20	4°39	8°26	0°23	1°26	25°42	4° 3	22° 1	12°17	11°46	7°12	4° 2	M12
T 13	7 30 43	22°53'59	17°10	25°59	5°54	9° 6	0°26	1°24	25°44	4° 4	22° 0	12°18	11°43	7°18	4°D 2	T 13
W14	7 34 39	23°55'07	29°42	27°38	7° 9	9°47	0°30	1°21	25°46	4° 6	21°59	12°19	11°39	7°25	4° 2	W14
T 15	7 38 36	24°56'16	12°12	29°18	8°25	10°28	0°35	1°20	25°48	4° 8	21°58	12°20	11°36	7°32	4° 2	T 15
F 16	7 42 33	25°57'24	24° 7	0°58	9°40	11° 9	0°39	1°18	25°50	4°10	21°56	12°21	11°33	7°38	4° 2	F 16
S 17	7 46 29	26°58'32	6° 6	2°39	10°55	11°50	0°44	1°16	25°52	4°12	21°55	12°22	11°30	7°45	4° 2	S 17
S 18	7 50 26	27°59'39	17°59	4°20	12°10	12°31	0°48	1°14	25°54	4°14	21°54	12°R22	11°27	7°52	4° 2	S 18
M19	7 54 22	29° 0'46	29°48	6° 1	13°26	13°12	0°53	1°13	25°56	4°16	21°53	12°21	11°24	7°58	4° 2	M19
T 20	7 58 19	0° 1'53	11°36	7°43	14°41	13°52	0°59	1°12	25°59	4°18	21°51	12°19	11°20	8° 5	4° 3	T 20
W21	8 2 15	1° 2'59	23°25	9°25	15°56	14°33	1° 4	1°10	26° 1	4°20	21°50	12°17	11°17	8°12	4° 3	W21
T 22	8 6 12	2° 4'05	5°17	11° 7	17°11	15°14	1° 9	1° 9	26° 3	4°22	21°49	12°13	11°14	8°18	4° 4	T 22
F 23	8 10 8	3° 5'09	17°13	12°50	18°26	15°55	1°15	1° 8	26° 6	4°24	21°47	12°10	11°11	8°25	4° 4	F 23
S 24	8 14 5	4° 6'13	29°18	14°32	19°42	16°36	1°21	1° 7	26° 8	4°26	21°46	12° 7	11° 8	8°32	4° 5	S 24
S 25	8 18 2	5° 7'16	11°33	16°14	20°57	17°17	1°27	1° 6	26°10	4°28	21°45	12° 4	11° 5	8°38	4° 6	S 25
M26	8 21 58	6° 8'18	24° 3	17°56	22°12	17°58	1°33	1° 6	26°13	4°30	21°44	12° 2	11° 1	8°45	4° 6	M26
T 27	8 25 55	7° 9'19	6°52	19°38	23°27	18°39	1°40	1° 5	26°15	4°32	21°42	12°D 1	10°58	8°52	4° 7	T 27
W28	8 29 51	8°10'19	20° 2	21°19	24°42	19°21	1°46	1° 4	26°18	4°34	21°41	12° 2	10°55	8°58	4° 8	W28
T 29	8 33 48	9°11'18	3°17	22°59	25°57	20° 2	1°53	1° 4	26°20	4°36	21°40	12° 3	10°52	9° 5	4° 9	T 29
F 30	8 37 44	10°12'16	17°39	24°39	27°12	20°43	2° 0	1° 4	26°23	4°38	21°39	12° 5	10°49	9°12	4°10	F 30
S 31	8 41 41	11°13'13	2° 7	26°16	28°27	21°24	2° 7	1°11	26°26	4°40	21°38	12° 6	10°45	9°18	4°11	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
T 1	22s59	22n50 3n53	24s38 1s23	22s52 1s 4	20s 2 0n18	10n16 1s15	18n30 2s 4	2s31 0s45	10s43 0s38	21n21 0s14	22s51 22s51	16s45 12n11	0s44		
F 2	22 54	24 42 2 53	24 37 1 28	22 41 1 6	20 11 0 18	10 16 1 14	18 30 2 3	2 30 0 45	10 42 0 38	21 21 0 14	22 51 22 51	16 43 12 11	0 44		
S 3	22 49	24 57 1 39	24 36 1 32	22 31 1 8	20 20 0 17	10 17 1 14	18 30 2 3	2 30 0 45	10 42 0 38	21 22 0 14	22 51 22 51	16 41 12 11	0 44		
S 4	22 43	23 24 0 18	24 32 1 37	22 19 1 9	20 28 0 16	10 18 1 14	18 29 2 3	2 29 0 45	10 41 0 38	21 22 0 14	22 51 22 52	16 38 12 10	0 44		
M 5	22 36	20 9 1s 6	24 28 1 41	22 7 1 11	20 37 0 16	10 19 1 13	18 29 2 3	2 28 0 45	10 41 0 38	21 22 0 14	22 51 22 52	16 36 12 10	0 44		
T 6	22 29	15 33 2 25	24 21 1 45	21 54 1 12	20 45 0 15	10 21 1 13	18 29 2 3	2 28 0 45	10 40 0 38	21 22 0 14	22 51 22 52	16 33 12 10	0 44		
W 7	22 22	10 0 3 34	24 14 1 48	21 40 1 14	20 53 0 15	10 22 1 13	18 28 2 2	2 27 0 45	10 39 0 38	21 23 0 13	22 51 22 52	16 31 12 10	0 44		
T 8	22 14	4 0 4 26	24 5 1 52	21 26 1 15	21 1 0 14	10 23 1 12	18 28 2 2	2 26 0 44	10 39 0 38	21 23 0 13	22 51 22 53	16 29 12 10	0 44		
F 9	22 6	2s 4 5 1	23 54 1 55	21 11 1 17	21 8 0 13	10 24 1 12	18 28 2 2	2 25 0 44	10 38 0 38	21 23 0 13	22 51 22 53	16 26 12 9	0 44		
S 10	21 57	7 51 5 17	23 42 1 58	20 56 1 18	21 16 0 13	10 26 1 12	18 27 2 2	2 25 0 44	10 37 0 38	21 24 0 13	22 51 22 53	16 24 12 9	0 44		
S 11	21 48	13 6 5 14	23 29 2 0	20 40 1 19	21 23 0 12	10 27 1 11	18 27 2 1	2 24 0 44	10 37 0 38	21 24 0 13	22 51 22 54	16 21 12 9	0 44		
M12	21 38	17 34 4 55	23 14 2 2	20 23 1 20	21 30 0 11	10 29 1 11	18 27 2 1	2 23 0 44	10 36 0 38	21 24 0 13	22 51 22 54	16 19 12 9	0 44		
T 13	21 28	21 7 4 21	22 57 2 4	20 6 1 22	21 37 0 11	10 31 1 11	18 27 2 1	2 22 0 44	10 36 0 38	21 24 0 13	22 51 22 54	16 16 12 9	0 44		
W14	21 18	23 34 3 35	22 39 2 5	19 48 1 23	21 44 0 10	10 32 1 11	18 27 2 1	2 22 0 44	10 35 0 38	21 25 0 13	22 51 22 54	16 14 12 9	0 44		
T 15	21 7	24 52 2 41	22 20 2 6	19 30 1 24	21 51 0 9	10 34 1 10	18 27 2 0	2 21 0 44	10 34 0 38	21 25 0 13	22 51 22 55	16 11 12 9	0 45		
F 16	20 56	24 57 1 40	21 59 2 7	19 11 1 25	21 57 0 9	10 36 1 10	18 26 2 0	2 20 0 44	10 33 0 38	21 25 0 13	22 51 22 55	16 9 12 9	0 45		
S 17	20 45	23 51 0 35	21 36 2 7	18 51 1 26	22 3 0 8	10 38 1 10	18 26 2 0	2 19 0 44	10 33 0 38	21 25 0 13	22 51 22 55	16 7 12 9	0 45		
S 18	20 33	21 42 0n31	21 12 2 6	18 31 1 27	22 9 0 7	10 40 1 9	18 26 1 59	2 18 0 44	10 32 0 38	21 26 0 13	22 51 22 55	16 4 12 9	0 45		
M19	20 20	18 37 1 35	20 47 2 6	18 10 1 27	22 15 0 7	10 42 1 9	18 26 1 59	2 17 0 44	10 31 0 38	21 26 0 13	22 51 22 56	16 2 12 9	0 45		
T 20	20 7	14 48 2 35	20 19 2 4	17 49 1 28	22 21 0 6	10 44 1 9	18 26 1 59	2 16 0 44	10 31 0 38	21 26 0 13	22 51 22 56	15 59 12 9	0 45		
W21	19 54	10 26 3 28	19 51 2 2	17 27 1 29	22 26 0 5	10 46 1 8	18 26 1 59	2 15 0 44	10 30 0 38	21 26 0 13	22 51 22 56	15 57 12 9	0 45		
T 22	19 41	5 39 4 12	19 21 2 0	17 5 1 29	22 32 0 4	10 48 1 8	18 26 1 58	2 14 0 44	10 29 0 38	21 27 0 13	22 51 22 57	15 54 12 10	0 45		
F 23	19 27	0 39 4 46	18 49 1 57	16 43 1 30	22 37 0 4	10 50 1 8	18 26 1 58	2 13 0 44	10 29 0 38	21 27 0 12	22 52 22 57	15 52 12 10	0 45		
S 24	19 13	4n25 5 7	18 16 1 54	16 20 1 30	22 42 0 3	10 52 1 8	18 26 1 58	2 12 0 44	10 28 0 38	21 27 0 12	22 52 22 57	15 49 12 10	0 45		
S 25	18 58	9 24 5 15	17 42 1 50	15 56 1 31	22 46 0 2	10 55 1 7	18 27 1 58	2 11 0 44	10 27 0 38	21 28 0 12	22 52 22 57	15 47 12 10	0 45		
M26	18 43	14 5 5 8	17 6 1 45	15 32 1 31	22 51 0 2	10 57 1 7	18 27 1 57	2 10 0 44	10 26 0 38	21 28 0 12	22 52 22 58	15 44 12 10	0 45		
T 27	18 28	18 17 4 46	16 30 1 40	15 8 1 32	22 55 0 1	11 0 1 7	18 27 1 57	2 9 0 44	10 26 0 38	21 28 0 12	22 52 22 58	15 42 12 10	0 45		
W28	18 12	21 43 4 8	15 52 1 34	14 43 1 32	22 59 0 0	11 2 1 7	18 27 1 57	2 8 0 44	10 25 0 38	21 28 0 12	22 52 22 58	15 39 12 11	0 45		
T 29	17 56	24 4 3 16	15 13 1 27	14 18 1 32	23 3 0s 1	11 5 1 6	18 27 1 57	2 7 0 44	10 24 0 38	21 29 0 12	22 52 22 58	15 37 12 11	0 45		
F 30	17 40	25 0 2 10	14 33 1 19	13 52 1 32	23 7 0 1	11 7 1 6	18 27 1 56	2 6 0 44	10 23 0 38	21 29 0 12	22 52 22 59	15 34 12 11	0 45		
S 31	17s24	24n19 0n55	13s52 1s11	13s26 1s32	23s10 0s 2	11n10 1s 6	18n28 1s56	2s 5 0s44	10s22 0s38	21n29 0s12	22s52 22s59	15s32 12n12	0s45		

Julian Day Number = 2516558.5, Delta T = 143.01 sec
Ecliptic obliquity = 23°25'00, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°13'40, Lahiri = 26°20'40

ASTRODIENST EPHEMERIS for the year 2178
geocentric

FEBRUARY 2178

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 45 37	12 ²² 14'08	16 ⁵⁸ 58	27 ⁵³ 33	29 ⁴² 42	22 ⁵ 5	28 ¹⁴ 14	1°D 4	26 ²⁸ 28	4 ⁴² 42	21°R36	12°R 6	10 ⁴² 42	9 ²⁵ 25	4 ¹² 12	S 1
M 2	8 49 34	13°15'03	2 ⁷ 2	29°26	0 ⁵⁷ 57	22°46	2°21	1 ⁴ 4	26°31	4°45	21°33	12°3 5	10°39	9°32	4°13	M 2
T 3	8 53 31	14°15'56	17°24	0 ⁵⁸ 58	2°12	23°28	2°29	1° 4	26°34	4°47	21°34	12° 2	10°36	9°38	4°14	T 3
W 4	8 57 27	15°16'49	2 ³⁸ 38	2°26	3°27	24° 9	2°36	1° 4	26°36	4°49	21°33	11°58	10°33	9°45	4°15	W 4
T 5	9 1 24	16°17'40	17°41	3°50	4°42	24°50	2°44	1° 5	26°39	4°51	21°32	11°53	10°30	9°52	4°17	T 5
F 6	9 5 20	17°18'31	2 ²² 22	5°10	5°57	25°31	2°52	1° 5	26°42	4°53	21°31	11°47	10°26	9°58	4°18	F 6
S 7	9 9 17	18°19'21	16°37	6°24	7°12	26°13	3° 0	1° 6	26°45	4°55	21°29	11°43	10°23	10° 5	4°19	S 7
S 8	9 13 13	19°20'09	0 ²² 22	7°33	8°27	26°54	3° 8	1° 7	26°48	4°58	21°28	11°39	10°20	10°12	4°21	S 8
M 9	9 17 10	20°20'57	13°38	8°35	9°42	27°35	3°17	1° 7	26°51	5° 0	21°27	11°38	10°17	10°18	4°22	M 9
T 10	9 21 6	21°21'45	26°29	9°30	10°56	28°17	3°25	1° 8	26°54	5° 2	21°26	11°D37	10°14	10°25	4°24	T 10
W11	9 25 3	22°22'31	8 ⁵⁸ 58	10°16	12°11	28°58	3°34	1°10	26°56	5° 4	21°25	11°39	10°11	10°32	4°26	W11
T 12	9 29 0	23°23'16	21° 9	10°54	13°26	29°39	3°43	1°11	26°59	5° 7	21°24	11°40	10° 7	10°38	4°27	T 12
F 13	9 32 56	24°24'00	3 ³ 3	11°22	14°41	0 ³¹ 31	3°52	1°12	27° 2	5° 9	21°23	11°42	10° 4	10°45	4°29	F 13
S 14	9 36 53	25°24'44	15° 0	11°40	15°55	1° 2	4° 1	1°13	27° 5	5°11	21°22	11°R42	10° 1	10°52	4°31	S 14
S 15	9 40 49	26°25'26	26°48	11°R47	17°10	1°44	4°10	1°15	27° 9	5°13	21°21	11°40	9°58	10°58	4°33	S 15
M16	9 44 46	27°26'06	8 ³⁵ 35	11°44	18°25	2°25	4°19	1°17	27°12	5°16	21°20	11°37	9°55	11° 5	4°34	M16
T 17	9 48 42	28°26'46	20°24	11°30	19°39	3° 7	4°29	1°18	27°15	5°18	21°19	11°31	9°51	11°11	4°36	T 17
W18	9 52 39	29°27'24	2 ⁵⁸ 58	11° 6	20°54	3°48	4°38	1°20	27°18	5°20	21°18	11°23	9°48	11°18	4°38	W18
T 19	9 56 35	0 ²⁸ 28'00	14°16	10°32	22° 9	4°30	4°48	1°22	27°21	5°22	21°17	11°14	9°45	11°25	4°40	T 19
F 20	10 0 32	1°28'35	26°22	9°50	23°23	5°12	4°58	1°24	27°24	5°25	21°16	11° 3	9°42	11°31	4°43	F 20
S 21	10 4 29	2°29'08	8 ³⁶ 36	8°59	24°38	5°53	5° 8	1°27	27°27	5°27	21°15	10°54	9°39	11°38	4°45	S 21
S 22	10 8 25	3°29'40	21° 0	8° 2	25°52	6°35	5°18	1°29	27°30	5°29	21°14	10°45	9°36	11°45	4°47	S 22
M23	10 12 22	4°30'10	3 ³⁶ 36	7° 1	27° 7	7°16	5°28	1°31	27°34	5°32	21°13	10°38	9°32	11°51	4°49	M23
T 24	10 16 18	5°30'38	16°26	5°56	28°21	7°58	5°39	1°34	27°37	5°34	21°12	10°34	9°29	11°58	4°51	T 24
W25	10 20 15	6°31'04	29°32	4°49	29°35	8°40	5°49	1°36	27°40	5°36	21°12	10°32	9°26	12° 5	4°54	W25
T 26	10 24 11	7°31'29	12 ⁵⁸ 58	3°43	0 ⁵⁰ 50	9°21	5°59	1°39	27°43	5°38	21°11	10°D32	9°23	12°11	4°56	T 26
F 27	10 28 8	8°31'52	26°46	2°39	2° 4	10° 3	6°10	1°42	27°47	5°41	21°10	10°33	9°20	12°18	4°58	F 27
S 28	10 32 4	9 ³² 32'12	10 ⁵⁷ 57	1 ³⁷ 37	3 ¹⁸ 18	10 ⁴⁵ 45	6 ²¹ 21	1 ⁴⁵ 45	27 ⁵⁰ 50	5 ⁴³ 43	21 ⁹ 9	10°R33	9 ¹⁷ 17	12 ²⁵ 25	5 ⁸ 8	S 28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	17s 7	21n54	0s27	13s10	1s 2	13s 0	1s32	23s14	0s 3	11n13	1s 5	18n28	1s56	2s 4	0s44	10s22
M 2	16 50	17 55	1 48	12 28	0 52	12 33	1 32	23 17	0 4	11 16	1 5	18 28	1 55	2 3	0 44	10 21
T 3	16 32	12 44	3 1	11 46	0 42	12 6	1 32	23 20	0 5	11 18	1 5	18 28	1 55	2 2	0 44	10 20
W 4	16 14	6 46	4 2	11 4	0 30	11 39	1 31	23 23	0 5	11 21	1 5	18 29	1 55	2 1	0 44	10 19
T 5	15 56	0 30	4 45	10 22	0 18	11 11	1 31	23 25	0 6	11 24	1 4	18 29	1 55	2 0	0 44	10 19
F 6	15 38	5s39	5 8	9 41	0 5	10 44	1 31	23 27	0 7	11 27	1 4	18 30	1 54	1 59	0 44	10 18
S 7	15 19	11 18	5 11	9 1	0n 9	10 15	1 30	23 29	0 8	11 30	1 4	18 30	1 54	1 57	0 44	10 17
S 8	15 1 16	12 4	5 55	8 22	0 24	9 47	1 30	23 31	0 9	11 33	1 4	18 30	1 54	1 56	0 44	10 16
M 9	14 41	20 7	4 25	7 45	0 39	9 18	1 29	23 33	0 9	11 36	1 3	18 31	1 53	1 55	0 43	10 15
T 10	14 22	22 56	3 41	7 10	0 54	8 49	1 28	23 34	0 10	11 39	1 3	18 31	1 53	1 54	0 43	10 15
W11	14 2	24 33	2 49	6 37	1 10	8 20	1 28	23 36	0 11	11 42	1 3	18 32	1 53	1 53	0 43	10 14
T 12	13 43	24 56	1 49	6 8	1 27	7 51	1 27	23 37	0 12	11 46	1 3	18 32	1 53	1 52	0 43	10 13
F 13	13 23	24 9	0 46	5 42	1 43	7 21	1 26	23 38	0 13	11 49	1 2	18 33	1 52	1 50	0 43	10 12
S 14	13 2	22 17	0n18	5 20	1 59	6 51	1 25	23 38	0 13	11 52	1 2	18 33	1 52	1 49	0 43	10 11
S 15	12 42	19 27	1 21	5 3	2 15	6 21	1 24	23 39	0 14	11 55	1 2	18 34	1 52	1 48	0 43	10 10
M16	12 21	15 50	2 20	4 50	2 31	5 51	1 23	23 39	0 15	11 59	1 2	18 35	1 52	1 47	0 43	10 10
T 17	12 0	11 37	3 14	4 41	2 45	5 21	1 22	23 39	0 16	12 2	1 1	18 35	1 51	1 45	0 43	10 9
W18	11 39	6 56	3 59	4 38	2 59	4 50	1 21	23 39	0 17	12 6	1 1	18 36	1 51	1 44	0 43	10 8
T 19	11 18	1 59	4 33	4 40	3 11	4 20	1 19	23 38	0 18	12 9	1 1	18 37	1 51	1 43	0 43	10 7
F 20	10 56	3n 5	4 56	4 46	3 21	3 49	1 18	23 38	0 19	12 13	1 1	18 37	1 50	1 42	0 43	10 6
S 21	10 35	8 5	5 6	4 57	3 30	3 18	1 16	23 37	0 20	12 16	1 1	18 38	1 50	1 40	0 43	10 5
S 22	10 13	12 50	5 1	5 12	3 37	2 47	1 15	23 36	0 20	12 20	1 0	18 39	1 50	1 39	0 43	10 5
M23	9 51	17 7	4 42	5 30	3 41	2 16	1 13	23 34	0 21	12 23	1 0	18 39	1 50	1 38	0 43	10 4
T 24	9 29	20 42	4 9	5 52	3 43	1 45	1 12	23 33	0 22	12 27	1 0	18 40	1 49	1 36	0 43	10 3
W25	9 7	23 19	3 22	6 17	3 43	1 14	1 10	23 31	0 23	12 31	1 0	18 41	1 49	1 35	0 43	10 2
T 26	8 44	24 41	2 22	6 43	3 40	0 43	1 8	23 29	0 24	12 34	0 59	18 42	1 49	1 34	0 43	10 1
F 27	8 22	24 36	1 13	7 10	3 35	0 12	1 7	23 27	0 25	12 38	0 59	18 43	1 49	1 33	0 43	10 0
S 28	7s59	22n56	0s 2	7s38	3n29	0n19	1s 5	23s25	0s26	12n42	0s59	18n43	1s48	1s31	0s43	10s 0

Julian Day Number = 2516589.5, Delta T = 143.08 sec
Ecliptic obliquity = 23°25'00, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°13'44, Lahiri = 26°20'44

ASTRODIENST EPHEMERIS for the year 2178
geocentric

MARCH 2178

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 36 1	10♌32'31	25♍30	0°R40	4°Y33	11♌26	6♌32	1♏48	27♌53	5♌45	21°R 8	10°R33	9♌13	12♌31	5♌ 3	S 1
M 2	10 39 58	11°32'47	10♏22	29♌49	5°47	12° 8	6°43	1°51	27°57	5°47	21♌ 8	10♌29	9°10	12°38	5° 6	M 2
T 3	10 43 54	12°33'02	25°27	29° 4	7° 1	12°50	6°54	1°54	28° 0	5°50	21° 7	10°24	9° 7	12°45	5° 9	T 3
W 4	10 47 51	13°33'15	10♏36	28°25	8°15	13°32	7° 5	1°58	28° 3	5°52	21° 6	10°15	9° 4	12°52	5°11	W 4
T 5	10 51 47	14°33'26	25°38	27°53	9°29	14°13	7°16	2° 1	28° 7	5°54	21° 5	10° 6	9° 1	12°58	5°14	T 5
F 6	10 55 44	15°33'35	10♏24	27°28	10°43	14°55	7°27	2° 5	28°10	5°57	21° 5	9°55	8°57	13° 5	5°17	F 6
S 7	10 59 40	16°33'43	24°47	27°10	11°57	15°37	7°39	2° 8	28°13	5°59	21° 4	9°46	8°54	13°12	5°19	S 7
S 8	11 3 37	17°33'49	8♏41	26°59	13°11	16°19	7°50	2°12	28°17	6° 1	21° 3	9°38	8°51	13°18	5°22	S 8
M 9	11 7 33	18°33'54	22° 5	26°D55	14°25	17° 1	8° 2	2°16	28°20	6° 3	21° 3	9°33	8°48	13°25	5°25	M 9
T 10	11 11 30	19°33'57	5♌ 2	26°57	15°39	17°43	8°14	2°20	28°23	6° 5	21° 2	9°30	8°45	13°32	5°28	T 10
W 11	11 15 27	20°33'58	17°34	27° 5	16°52	18°24	8°25	2°24	28°27	6° 8	21° 2	9°D29	8°42	13°38	5°31	W 11
T 12	11 19 23	21°33'58	29°47	27°19	18° 6	19° 6	8°37	2°28	28°30	6°10	21° 1	9°29	8°38	13°45	5°34	T 12
F 13	11 23 20	22°33'56	11♌46	27°39	19°20	19°48	8°49	2°32	28°34	6°12	21° 1	9°R29	8°35	13°52	5°37	F 13
S 14	11 27 16	23°33'53	23°36	28° 4	20°34	20°30	9° 1	2°36	28°37	6°14	21° 0	9°28	8°32	13°58	5°40	S 14
S 15	11 31 13	24°33'48	5♌23	28°33	21°47	21°12	9°13	2°40	28°41	6°17	21° 0	9°25	8°29	14° 5	5°43	S 15
M 16	11 35 9	25°33'41	17°11	29° 7	23° 1	21°54	9°26	2°45	28°44	6°19	20°59	9°19	8°26	14°12	5°46	M 16
T 17	11 39 6	26°33'32	29° 3	29°45	24°14	22°36	9°38	2°49	28°47	6°21	20°59	9°11	8°22	14°18	5°49	T 17
W 18	11 43 2	27°33'22	11♌ 2	0♌28	25°28	23°18	9°50	2°54	28°51	6°23	20°58	9° 0	8°19	14°25	5°52	W 18
T 19	11 46 59	28°33'10	23°11	1°14	26°41	24° 0	10° 3	2°59	28°54	6°25	20°58	8°47	8°16	14°32	5°55	T 19
F 20	11 50 56	29°32'55	5♌29	2° 3	27°55	24°42	10°15	3° 3	28°58	6°27	20°58	8°33	8°13	14°38	5°58	F 20
S 21	11 54 52	0°Y32'39	17°58	2°56	29° 8	25°24	10°28	3° 8	29° 1	6°29	20°57	8°19	8°10	14°45	6° 2	S 21
S 22	11 58 49	1°32'21	0♌38	3°51	0♌21	26° 6	10°40	3°13	29° 5	6°32	20°57	8° 6	8° 7	14°52	6° 5	S 22
M 23	12 2 45	2°32'00	13°29	4°50	1°34	26°48	10°53	3°18	29° 8	6°34	20°57	7°57	8° 3	14°58	6° 8	M 23
T 24	12 6 42	3°31'38	26°31	5°51	2°48	27°30	11° 6	3°23	29°11	6°36	20°56	7°50	8° 0	15° 5	6°12	T 24
W 25	12 10 38	4°31'13	9♏46	6°55	4° 1	28°12	11°19	3°29	29°15	6°38	20°56	7°46	7°57	15°12	6°15	W 25
T 26	12 14 35	5°30'46	23°14	8° 1	5°14	28°54	11°32	3°34	29°18	6°40	20°56	7°44	7°54	15°18	6°18	T 26
F 27	12 18 31	6°30'17	6♌57	9°10	6°27	29°36	11°45	3°39	29°22	6°42	20°56	7°44	7°51	15°25	6°22	F 27
S 28	12 22 28	7°29'45	20°57	10°21	7°40	0♌19	11°58	3°45	29°25	6°44	20°56	7°44	7°48	15°32	6°25	S 28
S 29	12 26 25	8°29'11	5♏12	11°33	8°53	1° 1	12°11	3°50	29°28	6°46	20°55	7°42	7°44	15°38	6°29	S 29
M 30	12 30 21	9°28'35	19°43	12°48	10° 5	1°43	12°24	3°56	29°32	6°48	20°55	7°39	7°41	15°45	6°32	M 30
T 31	12 34 18	10°Y27'56	4♏25	14♌ 5	11♌18	2♌25	12♌37	4♏ 1	29♌35	6♌50	20°55	7♌32	7♌38	15♌52	6♌36	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	7s36	19n43	1s19	8s 6	3n20	0n50	1s 3	23s22	0s27	12n45	0s59	18n44	1s48	1s30	0s43	9s59
M 2	7 14	15 11	2 32	8 33	3 11	1 22	1 1	23 20	0 28	12 49	0 59	18 45	1 48	1 29	0 43	9 58
T 3	6 51	9 38	3 36	8 59	3 0	1 53	0 59	23 17	0 29	12 53	0 58	18 46	1 48	1 27	0 43	9 57
W 4	6 28	3 31	4 24	9 24	2 47	2 24	0 57	23 13	0 30	12 57	0 58	18 47	1 47	1 26	0 43	9 56
T 5	6 4	2s46	4 54	9 47	2 35	2 55	0 55	23 10	0 31	13 1	0 58	18 48	1 47	1 25	0 43	9 56
F 6	5 41	8 46	5 3	10 8	2 21	3 26	0 53	23 6	0 32	13 4	0 58	18 49	1 47	1 23	0 43	9 55
S 7	5 18	14 8	4 53	10 27	2 8	3 57	0 50	23 3	0 33	13 8	0 58	18 50	1 47	1 22	0 43	9 54
S 8	4 55	18 34	4 26	10 44	1 54	4 28	0 48	22 59	0 34	13 12	0 57	18 51	1 46	1 21	0 43	9 53
M 9	4 31	21 53	3 44	10 58	1 39	4 59	0 46	22 54	0 35	13 16	0 57	18 52	1 46	1 19	0 43	9 52
T 10	4 8	23 57	2 52	11 11	1 25	5 29	0 43	22 50	0 36	13 20	0 57	18 53	1 46	1 18	0 43	9 51
W 11	3 44	24 44	1 54	11 21	1 12	6 0	0 41	22 45	0 37	13 24	0 57	18 54	1 46	1 16	0 43	9 51
T 12	3 20	24 16	0 51	11 29	0 58	6 30	0 38	22 41	0 38	13 28	0 57	18 55	1 45	1 15	0 43	9 50
F 13	2 57	22 42	0n12	11 35	0 44	7 0	0 36	22 36	0 39	13 32	0 57	18 56	1 45	1 14	0 43	9 49
S 14	2 33	20 8	1 14	11 39	0 31	7 31	0 33	22 30	0 40	13 36	0 56	18 57	1 45	1 12	0 43	9 48
S 15	2 9	16 45	2 13	11 41	0 19	8 1	0 31	22 25	0 41	13 40	0 56	18 58	1 45	1 11	0 43	9 47
M 16	1 46	12 43	3 6	11 40	0 6	8 30	0 28	22 19	0 42	13 44	0 56	18 59	1 44	1 10	0 43	9 47
T 17	1 22	8 11	3 51	11 38	0s 6	9 0	0 25	22 14	0 43	13 48	0 56	19 0	1 44	1 8	0 43	9 46
W 18	0 58	3 19	4 26	11 34	0 17	9 29	0 23	22 8	0 44	13 52	0 56	19 1	1 44	1 7	0 43	9 45
T 19	0 35	1n43	4 49	11 28	0 28	9 58	0 20	22 1	0 45	13 56	0 56	19 2	1 44	1 6	0 43	9 44
F 20	0 11	6 46	5 0	11 20	0 39	10 27	0 17	21 55	0 46	14 0	0 55	19 3	1 43	1 4	0 43	9 44
S 21	0n13	11 36	4 56	11 11	0 49	10 56	0 14	21 49	0 47	14 4	0 55	19 5	1 43	1 3	0 43	9 43
S 22	0 37	16 1	4 38	10 59	0 58	11 25	0 11	21 42	0 48	14 8	0 55	19 6	1 43	1 1	0 43	9 42
M 23	1 0	19 46	4 5	10 47	1 8	11 53	0 8	21 35	0 49	14 12	0 55	19 7	1 43	1 0	0 43	9 41
T 24	1 24	22 35	3 19	10 32	1 16	12 21	0 5	21 28	0 50	14 17	0 55	19 8	1 43	0 59	0 43	9 40
W 25	1 48	24 14	2 22	10 16	1 24	12 48	0 3	21 20	0 51	14 21	0 55	19 9	1 42	0 57	0 43	9 40
T 26	2 11	24 30	1 16	9 59	1 32	13 16	0n 0	21 13	0 52	14 25	0 54	19 11	1 42	0 56	0 43	9 39
F 27	2 35	23 18	0 4	9 40	1 39	13 43	0 3	21 5	0 54	14 29	0 54	19 12	1 42	0 55	0 43	9 38
S 28	2 58	20 39	1s 9	9 19	1 46	14 9	0 6	20 57	0 55	14 33	0 54	19 13	1 42	0 53	0 43	9 38
S 29	3 22	16 41	2 20	8 57	1 52	14 36	0 9	20 49	0 56	14 37	0 54	19 14	1 41	0 52	0 43	9 37
M 30	3 45	11 41	3 22	8 34	1 58	15 2	0 12	20 41	0 57	14 41	0 54	19 15	1 41	0 51	0 43	9 36
T 31	4n 8	5n58	4s12	8s 9	2s 3	15n27	0n16	20s33	0s58	14n45	0s54	19n17	1s41	0s49	0s43	9s35

Julian Day Number = 2516617.5, Delta T = 143.14 sec
Ecliptic obliquity = 23°25'00, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°13'48, Lahiri = 26°20'48

ASTRODIENST EPHEMERIS for the year 2178

geocentric

APRIL 2178

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 38 14	11°27'15	19°11'11	15°24'31	12°31'31	3°37'7	12°50'50	4°11'7	29°39'39	6°52'52	20°55'55	7°23'23	7°35'35	15°58'58	6°39'39	W 1
T 2	12 42 11	12°26'32	3°25'56	16°44'44	13°44'44	3°49'49	13°3'3	4°13'13	29°42'42	6°54'54	20°55'55	7°31'31	7°32'32	16°5'5	6°43'43	T 2
F 3	12 46 7	13°25'47	18°29'29	18°6'6	14°56'56	4°31'31	13°17'17	4°18'18	29°45'45	6°56'56	20°55'55	7°0'0	7°28'28	16°12'12	6°46'46	F 3
S 4	12 50 4	14°25'00	2°14'44	19°30'30	16°9'9	5°13'13	13°30'30	4°24'24	29°49'49	6°58'58	20°55'55	6°48'48	7°25'25	16°18'18	6°50'50	S 4
S 5	12 54 0	15°24'11	16°35'35	20°55'55	17°21'21	5°55'55	13°44'44	4°30'30	29°52'52	7°0'0	20°55'55	6°39'39	7°22'22	16°25'25	6°53'53	S 5
M 6	12 57 57	16°23'20	0°1'1	22°23'23	18°33'33	6°38'38	13°57'57	4°36'36	29°55'55	7°2'2	20°55'55	6°32'32	7°19'19	16°32'32	6°57'57	M 6
T 7	13 1 53	17°22'27	13°0'0	23°51'51	19°46'46	7°20'20	14°11'11	4°42'42	29°59'59	7°3'3	20°55'55	6°28'28	7°16'16	16°38'38	7°1'1	T 7
W 8	13 5 50	18°21'33	25°36'36	25°22'22	20°58'58	8°2'2	14°24'24	4°49'49	0°1'1	7°5'5	20°55'55	6°26'26	7°13'13	16°45'45	7°4'4	W 8
T 9	13 9 47	19°20'36	7°35'35	26°54'54	22°10'10	8°44'44	14°38'38	4°55'55	0°5'5	7°7'7	20°55'55	6°25'25	7°9'9	16°52'52	7°8'8	T 9
F 10	13 13 43	20°19'39	19°54'54	28°27'27	23°22'22	9°26'26	14°51'51	5°1'1	0°9'9	7°9'9	20°56'56	6°26'26	7°6'6	16°58'58	7°12'12	F 10
S 11	13 17 40	21°18'39	1°46'46	0°1'1	24°34'34	10°8'8	15°5'5	5°7'7	0°12'12	7°11'11	20°56'56	6°25'25	7°3'3	17°5'5	7°15'15	S 11
S 12	13 21 36	22°17'37	13°35'35	1°39'39	25°46'46	10°51'51	15°19'19	5°14'14	0°15'15	7°12'12	20°56'56	6°23'23	7°0'0	17°12'12	7°19'19	S 12
M13	13 25 33	23°16'34	25°25'25	3°17'17	26°58'58	11°33'33	15°32'32	5°20'20	0°18'18	7°14'14	20°56'56	6°19'19	6°57'57	17°18'18	7°23'23	M13
T 14	13 29 29	24°15'29	7°21'21	4°56'56	28°10'10	12°15'15	15°46'46	5°27'27	0°22'22	7°16'16	20°56'56	6°12'12	6°54'54	17°25'25	7°27'27	T 14
W15	13 33 26	25°14'22	19°26'26	6°37'37	29°22'22	12°57'57	16°0'0	5°33'33	0°25'25	7°17'17	20°57'57	6°2'2	6°50'50	17°32'32	7°30'30	W15
T 16	13 37 22	26°13'13	1°44'44	8°20'20	0°11'33	13°39'39	16°14'14	5°40'40	0°28'28	7°19'19	20°57'57	5°51'51	6°47'47	17°38'38	7°34'34	T 16
F 17	13 41 19	27°12'03	14°15'15	10°4'4	1°45'45	14°21'21	16°28'28	5°46'46	0°31'31	7°21'21	20°57'57	5°39'39	6°44'44	17°45'45	7°38'38	F 17
S 18	13 45 16	28°10'50	27°1'1	11°50'50	2°56'56	15°3'3	16°42'42	5°53'53	0°34'34	7°22'22	20°58'58	5°27'27	6°41'41	17°52'52	7°42'42	S 18
S 19	13 49 12	29°9'36	10°8'0	13°37'37	4°8'8	15°46'46	16°56'56	6°0'0	0°37'37	7°24'24	20°58'58	5°16'16	6°38'38	17°58'58	7°45'45	S 19
M20	13 53 9	0°8'19	23°12'12	15°26'26	5°19'19	16°28'28	17°10'10	6°7'7	0°40'40	7°26'26	20°58'58	5°7'7	6°34'34	18°5'5	7°49'49	M20
T 21	13 57 5	1°7'01	6°11'36	17°17'17	6°30'30	17°10'10	17°24'24	6°13'13	0°44'44	7°27'27	20°59'59	5°1'1	6°31'31	18°12'12	7°53'53	T 21
W22	14 1 2	2°5'40	20°9'9	19°9'9	7°42'42	17°52'52	17°38'38	6°20'20	0°47'47	7°29'29	20°59'59	4°58'58	6°28'28	18°19'19	7°57'57	W22
T 23	14 4 58	3°4'18	3°52'52	21°3'3	8°53'53	18°34'34	17°52'52	6°27'27	0°50'50	7°30'30	21°0'0	4°57'57	6°25'25	18°25'25	8°1'1	T 23
F 24	14 8 55	4°2'53	17°44'44	22°58'58	10°4'4	19°16'16	18°6'6	6°34'34	0°53'53	7°32'32	21°0'0	4°58'58	6°22'22	18°32'32	8°5'5	F 24
S 25	14 12 51	5°1'26	1°44'44	24°55'55	11°15'15	19°58'58	18°20'20	6°41'41	0°56'56	7°33'33	21°1'1	4°58'58	6°19'19	18°39'39	8°8'8	S 25
S 26	14 16 48	5°59'57	15°52'52	26°53'53	12°26'26	20°40'40	18°34'34	6°48'48	0°59'59	7°34'34	21°1'1	4°58'58	6°15'15	18°45'45	8°12'12	S 26
M27	14 20 45	6°58'25	0°11'7	28°53'53	13°36'36	21°22'22	18°48'48	6°55'55	1°1'1	7°36'36	21°2'2	4°56'56	6°12'12	18°52'52	8°16'16	M27
T 28	14 24 41	7°56'52	14°27'27	0°55'55	14°47'47	22°4'4	19°2'2	7°3'3	1°4'4	7°37'37	21°2'2	4°51'51	6°9'9	18°59'59	8°20'20	T 28
W29	14 28 38	8°55'16	28°48'48	2°57'57	15°57'57	22°46'46	19°16'16	7°10'10	1°7'7	7°38'38	21°3'3	4°45'45	6°6'6	19°5'5	8°24'24	W29
T 30	14 32 34	9°53'38	13°5'5	5°8'2	17°11'8	23°28'28	19°31'31	7°11'11	1°10'10	7°40'40	21°3'3	4°37'37	6°3'3	19°12'12	8°28'28	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
-----	---	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--

ASTRODIENST EPHEMERIS for the year 2178
geocentric

MAY 2178

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 36 31	10♌51'58	27♊13	7♈ 7	18♏18	24♏10	19♌45	7♏24	1♏13	7♏41	21♌ 4	4♏R28	5♌59	19♏19	8♌31	F 1
S 2	14 40 27	11°50'17	11♏ 7	9°14	19°29	24°52	19°59	7°31	1°16	7°42	21° 5	4♌19	5°56	19°25	8°35	S 2
S 3	14 44 24	12°48'33	24°42	11°22	20°39	25°34	20°13	7°39	1°19	7°44	21° 5	4°12	5°53	19°32	8°39	S 3
M 4	14 48 20	13°46'48	7♏57	13°30	21°49	26°16	20°27	7°46	1°21	7°45	21° 6	4° 7	5°50	19°39	8°43	M 4
T 5	14 52 17	14°45'02	20°51	15°39	22°59	26°58	20°42	7°53	1°24	7°46	21° 7	4° 4	5°47	19°45	8°47	T 5
W 6	14 56 14	15°43'13	3♌25	17°49	24° 9	27°40	20°56	8° 1	1°27	7°47	21° 8	4°D 3	5°44	19°52	8°50	W 6
T 7	15 0 10	16°41'24	15°42	19°59	25°18	28°22	21°10	8° 8	1°29	7°48	21° 8	4° 4	5°40	19°59	8°54	T 7
F 8	15 4 7	17°39'33	27°45	22° 9	26°28	29° 4	21°24	8°16	1°32	7°49	21° 9	4° 5	5°37	20° 5	8°58	F 8
S 9	15 8 3	18°37'40	9♏40	24°18	27°37	29°46	21°39	8°23	1°35	7°50	21°10	4° 6	5°34	20°12	9° 2	S 9
S 10	15 12 0	19°35'46	21°30	26°27	28°47	0♏28	21°53	8°31	1°37	7°51	21°11	4°R 7	5°31	20°19	9° 6	S 10
M 11	15 15 56	20°33'50	3♏22	28°35	29°56	1° 9	22° 7	8°38	1°40	7°52	21°12	4° 6	5°28	20°25	9° 9	M 11
T 12	15 19 53	21°31'53	15°21	0♏41	1♌ 5	1°51	22°21	8°46	1°42	7°53	21°13	4° 3	5°25	20°32	9°13	T 12
W 13	15 23 49	22°29'55	27°30	2°46	2°14	2°33	22°36	8°53	1°45	7°54	21°14	3°59	5°21	20°39	9°17	W 13
T 14	15 27 46	23°27'55	9♏54	4°50	3°23	3°15	22°50	9° 1	1°47	7°55	21°14	3°53	5°18	20°46	9°21	T 14
F 15	15 31 43	24°25'54	22°34	6°51	4°32	3°56	23° 4	9° 9	1°49	7°56	21°15	3°46	5°15	20°52	9°24	F 15
S 16	15 35 39	25°23'52	5♌33	8°50	5°41	4°38	23°18	9°16	1°52	7°57	21°16	3°39	5°12	20°59	9°28	S 16
S 17	15 39 36	26°21'48	18°49	10°47	6°49	5°19	23°33	9°24	1°54	7°57	21°17	3°34	5° 9	21° 6	9°32	S 17
M 18	15 43 32	27°19'43	2♏23	12°41	7°58	6° 1	23°47	9°32	1°56	7°58	21°18	3°29	5° 5	21°12	9°36	M 18
T 19	15 47 29	28°17'36	16°11	14°32	9° 6	6°42	24° 1	9°39	1°59	7°59	21°19	3°26	5° 2	21°19	9°39	T 19
W 20	15 51 25	29°15'28	0♌ 9	16°20	10°14	7°24	24°15	9°47	2° 1	8° 0	21°20	3°D25	4°59	21°26	9°43	W 20
T 21	15 55 22	0♏13'18	14°16	18° 6	11°22	8° 5	24°30	9°55	2° 3	8° 0	21°21	3°25	4°56	21°32	9°47	T 21
F 22	15 59 18	1°11'07	28°28	19°48	12°30	8°47	24°44	10° 2	2° 5	8° 1	21°22	3°27	4°53	21°39	9°50	F 22
S 23	16 3 15	2° 8'54	12♏41	21°27	13°38	9°28	24°58	10°10	2° 7	8° 2	21°24	3°28	4°50	21°46	9°54	S 23
S 24	16 7 12	3° 6'39	26°55	23° 3	14°46	10° 9	25°12	10°18	2° 9	8° 2	21°25	3°R29	4°46	21°52	9°58	S 24
M 25	16 11 8	4° 4'22	11♏ 6	24°36	15°53	10°50	25°26	10°26	2°11	8° 3	21°26	3°29	4°43	21°59	10° 1	M 25
T 26	16 15 5	5° 2'04	25°12	26° 5	17° 0	11°32	25°41	10°33	2°13	8° 3	21°27	3°28	4°40	22° 6	10° 5	T 26
W 27	16 19 1	5°59'44	9♏12	27°31	18° 7	12°13	25°55	10°41	2°15	8° 4	21°28	3°25	4°37	22°12	10° 8	W 27
T 28	16 22 58	6°57'23	23° 3	28°54	19°14	12°54	26° 9	10°49	2°17	8° 4	21°29	3°22	4°34	22°19	10°12	T 28
F 29	16 26 54	7°55'01	6♏44	0♌13	20°21	13°35	26°23	10°57	2°19	8° 5	21°30	3°18	4°31	22°26	10°15	F 29
S 30	16 30 51	8°52'37	20°11	1°28	21°28	14°16	26°37	11° 5	2°21	8° 5	21°32	3°14	4°27	22°33	10°19	S 30
S 31	16 34 47	9♏50'11	3♏23	2♌40	22♌34	14♏56	26♌51	11♏12	2♏23	8♏ 5	21♌33	3♌11	4♌24	22♏39	10♌22	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	15n 4	14s51	4s42	13n11	0s44	24n40	1n46	14s57	1s36	16n51	0s50	19n57	1s36	0s11	0s43	9s17	0s39	21n40	0s 6	23s20	23s17	11s39	13n33	0s50								
S 2	15 22	19 2	4 5	14 1	0 34	24 48	1 49	14 44	1 37	16 55	0 50	19 58	1 36	0 10	0 43	9 17	0 39	21 40	0 6	23 21	23 17	11 37	13 34	0 50								
S 3	15 40	22 5	3 15	14 51	0 24	24 56	1 51	14 31	1 38	16 59	0 50	20 0	1 35	0 9	0 43	9 16	0 39	21 40	0 6	23 21	23 17	11 34	13 35	0 50								
M 4	15 58	23 51	2 16	15 39	0 14	25 3	1 53	14 18	1 39	17 3	0 50	20 1	1 35	0 8	0 43	9 16	0 39	21 40	0 6	23 21	23 17	11 31	13 36	0 50								
T 5	16 15	24 17	1 11	16 28	0 3	25 9	1 56	14 5	1 41	17 6	0 50	20 2	1 35	0 6	0 43	9 15	0 39	21 40	0 6	23 21	23 17	11 29	13 37	0 50								
W 6	16 32	23 26	0 3	17 15	0n 7	25 15	1 58	13 52	1 42	17 10	0 50	20 4	1 35	0 5	0 43	9 15	0 39	21 40	0 6	23 21	23 18	11 26	13 39	0 50								
T 7	16 49	21 28	1n 3	18 0	0 18	25 20	2 0	13 39	1 43	17 14	0 50	20 5	1 35	0 4	0 43	9 15	0 39	21 40	0 6	23 21	23 18	11 23	13 40	0 50								
F 8	17 5	18 33	2 5	18 45	0 28	25 24	2 2	13 25	1 45	17 18	0 50	20 6	1 35	0 3	0 44	9 14	0 39	21 40	0 6	23 21	23 18	11 21	13 41	0 50								
S 9	17 21	14 55	3 0	19 27	0 39	25 28	2 4	13 12	1 46	17 22	0 50	20 7	1 35	0 2	0 44	9 14	0 39	21 40	0 5	23 21	23 18	11 18	13 42	0 50								
S 10	17 37	10 43	3 48	20 8	0 49	25 31	2 6	12 58	1 47	17 25	0 49	20 9	1 35	0 1	0 44	9 14	0 39	21 40	0 5	23 21	23 18	11 15	13 43	0 50								
M 11	17 52	6 7	4 27	20 47	0 59	25 33	2 8	12 45	1 49	17 29	0 49	20 10	1 35	0 0	0 44	9 13	0 40	21 40	0 5	23 21	23 18	11 13	13 44	0 50								
T 12	18 8	1 15	4 53	21 24	1 9	25 34	2 10	12 31	1 50	17 33	0 49	20 11	1 34	0n 1	0 44	9 13	0 40	21 40	0 5	23 21	23 18	11 10	13 45	0 51								
W 13	18 23	3n43	5 8	21 58	1 18	25 35	2 11	12 17	1 51	17 36	0 49	20 12	1 34	0 2	0 44	9 13	0 40	21 39	0 5	23 21	23 18	11 7	13 46	0 51								
T 14	18 37	8 38	5 8	22 30	1 27	25 35	2 13	12 3	1 53	17 40	0 49	20 14	1 34	0 2	0 44	9 12	0 40	21 39	0 5	23 22	23 19	11 5	13 48	0 51								
F 15	18 52	13 18	4 53	22 59	1 35	25 35	2 15	11 49	1 54	17 44	0 49	20 15	1 34	0 3	0 44	9 12	0 40	21 39	0 5	23 22	23 19	11 2	13 49	0 51								
S 16	19 6	17 30	4 23	23 26	1 42	25 34	2 16	11 35	1 55	17 47	0 49	20 16	1 34	0 4	0 44	9 12	0 40	21 39	0 5	23 22	23 19	10 59	13 50	0 51								
S 17	19 19	20 55	3 39	23 51	1 49	25 32	2 17	11 21	1 56	17 51	0 49	20 17	1 34	0 5	0 44	9 11	0 40	21 39	0 5	23 22	23 19	10 57	13 51	0 51								
M 18	19 33	23 15	2 41	24 12	1 56	25 29	2 19	11 7	1 58	17 55	0 49	20 19	1 34	0 6	0 44	9 11	0 40	21 39	0 5	23 22	23 19	10 54	13 52	0 51								
T 19	19 46	24 14	1 33	24 32	2 1	25 26	2 20	10 53	1 59	17 58	0 49	20 20	1 34	0 7	0 44	9 11	0 40	21 39	0 5	23 22	23 19	10 51	13 53	0 51								
W 20	19 58	23 43	0 18	24 48	2 6	25 22	2 21	10 39	2 0	18 2	0 49	20 21	1 34	0 8	0 44	9 11	0 40	21 39	0 5	23 22	23 19	10 48	13 54	0 51								
T 21	20 11	21 41	0s59	25 2	2 10	25 17	2 22	10 25	2 2	18 5	0 49	20 22	1 33	0 9	0 44	9 11	0 40	21 39	0 5	23 22	23 19	10 46	13 55	0 51								
F 22	20 23	18 17	2 13	25 14	2 13	25 12	2 23	10 10	2 3	18 9	0 49	20 24	1 33	0 10	0 44	9 10	0 40	21 39	0 5	23 22	23 20	10 43	13 56	0 51								
S 23	20 34	13 49	3 18	25 24	2 15	25 6	2 24	9 56	2 5	18 12	0 49	20 25	1 33	0 10	0 44	9 10	0 40	21 38	0 5	23 22	23 20	10 40	13 57	0 52								
S 24	20 46	8 35	4 12	25 31	2 17	25 0	2 24	9 42	2 6	18 16	0 49	20 26	1 33	0 11	0 44	9 10	0 40	21 38	0 5	23 22	23 20	10 38	13 58	0 52								
M 25	20 56	2 56	4 50	25 36	2 18	24 52	2 25	9 27	2 7	18 19	0 49	20 27	1 33	0 12	0 44	9 10	0 40	21 38	0 4	23 22	23 20	10 35	13 59	0 52								
T 26	21 7	2s50	5 10	25 39	2 17	24 45	2 26	9 13	2 9	18 22	0 49	20 28	1 33	0 13	0 44	9 10	0 40	21 38	0 4	23 22	23 20	10 32	14 0	0 52								
W 27	21 17	8 25	5 12	25 40	2 16	24 36	2 26	8 58	2 10	18 26	0 48	20 30	1 33	0 13	0 44	9 9	0 40	21 38	0 4	23 22	23 20	10 30	14 1	0 52								
T 28	21 27	13 31	4 55	25 39	2 15	24 27	2 26	8 44	2 11	18 29	0 48	20 31	1 33	0 14	0 44	9 9	0 40	21 38	0 4	23 22	23 20	10 27	14 2	0 52								
F 29	21 36	17 52	4 22	25 37	2 12	24 17	2 27	8 29	2 13	18 32	0 48	20 32	1 33	0 15	0 44	9 9	0 40	21 38	0 4	23 23	23 20	10 24	14 3	0 52								
S 30	21 46	21 13	3 34	25 33	2 8	24 7	2 27	8 15	2 14	18 36	0 48	20 33	1 33	0 16	0 44	9 9	0 40	21 38	0 4	23 23	23 20	10 21	14 4	0 52								
S 31	21n54	23s22	2s36	25n27	2n 4	23n56	2n27	8s 0	2s15	18n39	0s48	20n34	1s33	0n16	0s44	9s 9	0s40	21n38	0s 4	23s23	23s21	10s19	14n 5	0s52								

ASTRODIENST EPHEMERIS for the year 2178
geocentric

JUNE 2178

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 38 44	10II47'45	16♂20	3♂49	23♂40	15♂37	27♂ 5	11II20	2♀24	8♂ 6	21♂34	3°R 9	4♂21	22♂46	10♂26	M 1
T 2	16 42 41	11°45'18	29° 1	4°54	24°46	16°18	27°19	11°28	2°26	8° 6	21°35	3°D 8	4°18	22°53	10°29	T 2
W 3	16 46 37	12°42'49	11♂26	5°55	25°52	16°59	27°33	11°36	2°28	8° 6	21°37	3♂ 9	4°15	22°59	10°33	W 3
T 4	16 50 34	13°40'20	23°38	6°52	26°58	17°39	27°47	11°43	2°29	8° 6	21°38	3°10	4°11	23° 6	10°36	T 4
F 5	16 54 30	14°37'50	5♂40	7°46	28° 3	18°20	28° 1	11°51	2°31	8° 6	21°39	3°11	4° 8	23°13	10°39	F 5
S 6	16 58 27	15°35'18	17°34	8°35	29° 9	19° 0	28°15	11°59	2°32	8° 7	21°40	3°12	4° 5	23°19	10°43	S 6
S 7	17 2 23	16°32'46	29°26	9°21	0♂14	19°41	28°29	12° 7	2°34	8° 7	21°42	3°14	4° 2	23°26	10°46	S 7
M 8	17 6 20	17°30'14	11♂19	10° 2	1°18	20°21	28°42	12°15	2°35	8° 7	21°43	3°14	3°59	23°33	10°49	M 8
T 9	17 10 16	18°27'40	23°18	10°39	2°23	21° 1	28°56	12°22	2°37	8° 7	21°44	3°R14	3°56	23°39	10°52	T 9
W10	17 14 13	19°25'06	5♀27	11°12	3°27	21°41	29°10	12°30	2°38	8°R 7	21°46	3°14	3°52	23°46	10°55	W10
T 11	17 18 10	20°22'32	17°52	11°41	4°32	22°21	29°24	12°38	2°39	8° 7	21°47	3°13	3°49	23°53	10°59	T 11
F 12	17 22 6	21°19'56	0♂35	12° 5	5°35	23° 1	29°37	12°46	2°41	8° 7	21°49	3°11	3°46	23°59	11° 2	F 12
S 13	17 26 3	22°17'21	13°40	12°25	6°39	23°41	29°51	12°53	2°42	8° 7	21°50	3°10	3°43	24° 6	11° 5	S 13
S 14	17 29 59	23°14'44	27° 7	12°40	7°43	24°21	0II 5	13° 1	2°43	8° 7	21°51	3° 9	3°40	24°13	11° 8	S 14
M15	17 33 56	24°12'07	10II55	12°51	8°46	25° 1	0°18	13° 9	2°44	8° 7	21°53	3° 8	3°37	24°20	11°11	M15
T 16	17 37 52	25° 9'30	25° 4	12°57	9°49	25°40	0°32	13°16	2°45	8° 6	21°54	3° 7	3°33	24°26	11°14	T 16
W17	17 41 49	26° 6'52	9♂27	12°R58	10°51	26°20	0°45	13°24	2°46	8° 6	21°56	3°D 7	3°30	24°33	11°17	W17
T 18	17 45 46	27° 4'13	24° 1	12°55	11°54	26°59	0°59	13°32	2°47	8° 6	21°57	3° 7	3°27	24°40	11°20	T 18
F 19	17 49 42	28° 1'33	8♂38	12°48	12°56	27°38	1°12	13°39	2°48	8° 6	21°59	3° 8	3°24	24°46	11°23	F 19
S 20	17 53 39	28°58'52	23°14	12°36	13°57	28°17	1°26	13°47	2°49	8° 5	22° 0	3° 8	3°21	24°53	11°26	S 20
S 21	17 57 35	29°56'11	7♂42	12°20	14°59	28°56	1°39	13°55	2°50	8° 5	22° 1	3° 9	3°17	25° 0	11°29	S 21
M22	18 1 32	0♂53'28	22° 0	12° 1	16° 0	29°35	1°52	14° 2	2°51	8° 5	22° 3	3° 9	3°14	25° 6	11°31	M22
T 23	18 5 28	1°50'45	6♂ 4	11°38	17° 1	0♀14	2° 6	14°10	2°51	8° 4	22° 4	3°R 9	3°11	25°13	11°34	T 23
W24	18 9 25	2°48'01	19°53	11°11	18° 1	0°52	2°19	14°17	2°52	8° 4	22° 6	3°D 9	3° 8	25°20	11°37	W24
T 25	18 13 21	3°45'16	3♂27	10°42	19° 1	1°31	2°32	14°25	2°53	8° 3	22° 7	3° 9	3° 5	25°27	11°40	T 25
F 26	18 17 18	4°42'31	16°45	10°11	20° 1	2° 9	2°45	14°32	2°53	8° 3	22° 9	3° 9	3° 2	25°33	11°42	F 26
S 27	18 21 15	5°39'45	29°48	9°37	21° 1	2°47	2°58	14°40	2°54	8° 2	22°10	3° 9	2°58	25°40	11°45	S 27
S 28	18 25 11	6°36'59	12♂37	9° 3	22° 0	3°25	3°11	14°47	2°54	8° 2	22°12	3° 9	2°55	25°47	11°47	S 28
M29	18 29 8	7°34'12	25°14	8°28	22°58	4° 3	3°24	14°55	2°55	8° 1	22°14	3°10	2°52	25°53	11°50	M29
T 30	18 33 4	8♂31'25	7♂38	7♂52	23♂56	4♀41	3II37	15II 2	2♀55	8♂ 1	22♂15	3°R10	2♂49	26♂ 0	11♂52	T 30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	22n 3	24s14	1s31	25n20	1n59	23n45	2n27	7s46	2s17	18n42	0s48	20n35	1s33	0n17	0s44	9s 9	0s40	21n37	0s 4	23s23	23s21	10s16	14n 6	0s52
T 2	22 10	23 48	0 23	25 12	1 52	23 33	2 26	7 31	2 18	18 46	0 48	20 36	1 33	0 17	0 44	9 9	0 40	21 37	0 4	23 23	23 21	10 13	14 7	0 52
W 3	22 18	22 10	0n46	25 2	1 45	23 20	2 26	7 16	2 19	18 49	0 48	20 37	1 33	0 18	0 44	9 9	0 40	21 37	0 4	23 23	23 21	10 11	14 8	0 53
T 4	22 25	19 32	1 51	24 52	1 38	23 7	2 25	7 2	2 21	18 52	0 48	20 39	1 32	0 19	0 44	9 9	0 40	21 37	0 4	23 23	23 21	10 8	14 9	0 53
F 5	22 32	16 5	2 50	24 40	1 29	22 54	2 25	6 47	2 22	18 55	0 48	20 40	1 32	0 19	0 44	9 9	0 40	21 37	0 4	23 23	23 21	10 5	14 10	0 53
S 6	22 38	12 2	3 41	24 28	1 20	22 40	2 24	6 33	2 23	18 58	0 48	20 41	1 32	0 20	0 44	9 9	0 40	21 37	0 4	23 23	23 21	10 3	14 11	0 53
S 7	22 44	7 33	4 23	24 14	1 9	22 25	2 23	6 18	2 25	19 1	0 48	20 42	1 32	0 20	0 44	9 9	0 40	21 37	0 4	23 23	23 21	10 0	14 12	0 53
M 8	22 50	2 47	4 53	24 0	0 58	22 10	2 22	6 3	2 26	19 4	0 48	20 43	1 32	0 21	0 44	9 9	0 40	21 36	0 4	23 23	23 21	9 57	14 13	0 53
T 9	22 55	2n 7	5 11	23 46	0 47	21 54	2 21	5 49	2 27	19 7	0 48	20 44	1 32	0 22	0 44	9 9	0 40	21 36	0 4	23 23	23 21	9 54	14 14	0 53
W10	23 0	7 0	5 16	23 31	0 34	21 38	2 20	5 34	2 29	19 10	0 48	20 45	1 32	0 22	0 44	9 9	0 40	21 36	0 3	23 23	23 22	9 52	14 15	0 53
T 11	23 4	11 43	5 6	23 15	0 21	21 21	2 19	5 19	2 30	19 13	0 48	20 46	1 32	0 23	0 44	9 9	0 41	21 36	0 3	23 23	23 22	9 49	14 16	0 53
F 12	23 8	16 3	4 41	22 59	0 7	21 4	2 17	5 5	2 31	19 16	0 48	20 47	1 32	0 23	0 45	9 9	0 41	21 36	0 3	23 23	23 22	9 46	14 16	0 54
S 13	23 12	19 45	4 1	22 43	0s 7	20 47	2 15	4 50	2 33	19 19	0 48	20 48	1 32	0 23	0 45	9 9	0 41	21 36	0 3	23 23	23 22	9 44	14 17	0 54
S 14	23 15	22 31	3 7	22 26	0 22	20 29	2 14	4 36	2 34	19 22	0 48	20 49	1 32	0 24	0 45	9 9	0 41	21 35	0 3	23 23	23 22	9 41	14 18	0 54
M15	23 17	24 2	2 0	22 10	0 38	20 10	2 12	4 21	2 35	19 25	0 48	20 50	1 32	0 24	0 45	9 9	0 41	21 35	0 3	23 23	23 22	9 38	14 19	0 54
T 16	23 20	24 4	0 45	21 53	0 54	19 51	2 10	4 7	2 37	19 28	0 48	20 51	1 32	0 25	0 45	9 9	0 41	21 35	0 3	23 23	23 22	9 35	14 20	0 54
W17	23 22	22 30	0s35	21 37	1 10	19 32	2 8	3 52	2 38	19 31	0 48	20 52	1 32	0 25	0 45	9 9	0 41	21 35	0 3	23 23	23 22	9 33	14 21	0 54
T 18	23 23	19 26	1 53	21 21	1 27	19 13	2 5	3 38	2 39	19 33	0 48	20 53	1 32	0 25	0 45	9 9	0 41	21 35	0 3	23 23	23 22	9 30	14 21	0 54
F 19	23 24	15 7	3 5	21 5	1 44	18 53	2 3	3 24	2 40	19 36	0 48	20 54	1 32	0 26	0 45	9 9	0 41	21 35	0 3	23 23	23 22	9 27	14 22	0 54
S 20	23 25	9 55	4 4	20 49	2 1	18 32	2 0	3 9	2 42	19 39	0 48	20 55	1 32	0 26	0 45	9 10	0 41	21 34	0 3	23 23	23 22	9 25	14 23	0 54
S 21	23 25	4 14	4 47	20 34	2 17	18 12	1 57	2 55	2 43	19 42	0 48	20 56	1 32	0 26	0 45	9 10	0 41	21 34	0 3	23 23	23 23	9 22	14 24	0 55
M22	23 25	1s36	5 11	20 19	2 34	17 51	1 54	2 41	2 44	19 44	0 48	20 57	1 32	0 27	0 45	9 10	0 41	21 34	0 3	23 23	23 23	9 19	14 24	0 55
T 23	23 24	7 15	5 17	20 5	2 50	17 29	1 51	2 27	2 46	19 47	0 48	20 58	1 32	0 27	0 45	9 10	0 41	21 34	0 3	23 23	23 23	9 16	14 25	0 55
W24	23 23	12 27	5 4	19 52	3 6	17 8	1 48	2 12	2 47	19 49	0 48	20 58	1 32	0 27	0 45	9 10	0 41	21 34	0 3	23 23	23 23	9 14	14 26	0 55
T 25	23 22	16 56	4 34	19 39	3 21	16 46	1 45	1 58	2 48	19 52	0 48	20 59	1 32	0 27	0 45	9 10	0 41	21 34	0 3	23 23	23 23	9 11	14 27	0 55
F 26	23 20	20 30	3 50	19 27	3 35	16 24	1 41	1 44	2 50	19 55	0 48	21 0	1 32	0 28	0 45	9 11	0 41	21 33	0 2	23 23	23 23	9 8	14 27	0 55
S 27	23 18	22 56	2 55	19 17	3 48	16 1	1 38	1 30	2 51	19 57	0 48	21 1	1 32	0 28	0 45	9 11	0 41	21 33	0 2	23 23	23 23	9 6	14 28	0 55
S 28	23 15	24 8	1 51	19 7	4 0	15 39	1 34	1 16	2 52	20 0	0 48	21 2	1 32	0 28	0 45	9 11	0 41	21 33	0 2	23 23	23 23	9 3	14 29	0 55
M29	23 12	24 4	0 44	18 58	4 11	15 16	1 30	1 3	2 53	20 2	0 48	21 3	1 32	0 28	0 45	9 11	0 41	21 33	0 2	23 23	23 23	9 0	14 29	0 55
T 30	23n 9	22s47	0n25	18n51	4s21	14n53	1n26	0s49	2s55	20n 4	0s48	21n 4	1s32	0n28	0s45	9s12	0s41	21n33	0s 2	23s23	23s23	8s57	14n30	0s56

ASTRODIENST EPHEMERIS for the year 2178
geocentric

JULY 2178

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	18 37 1	9 ⁵⁵ 28'37	19 ³⁵ 52	7 ¹⁰ 17	24 ⁴⁰ 54	5 ¹⁹ 19	3 ¹¹ 50	15 ¹¹ 9	2 ¹⁹ 56	8 ¹⁰ 0	22 ⁵¹ 17	3 ¹⁰ 9	2 ³⁴ 46	26 ³³ 7	11 ⁵⁸ 55	W 1
T 2	18 40 57	10 ²⁵ 50	1 ³⁵ 56	6 ⁵⁵ 44	25 ⁵¹	5 ⁵⁶	4 ²	15 ¹⁷	2 ⁵⁶	7 ⁵⁹	22 ¹⁸	3 ⁹	2 ⁴³	26 ¹³	11 ⁵⁷	T 2
F 3	18 44 54	11 ²³ 02	13 ⁵⁴	6 ¹²	26 ⁴⁸	6 ³³	4 ¹⁵	15 ²⁴	2 ⁵⁶	7 ⁵⁹	22 ²⁰	3 ⁸	2 ³⁹	26 ²⁰	12 ⁰	F 3
S 4	18 48 50	12 ²⁰ 14	25 ⁴⁷	5 ⁴²	27 ⁴⁵	7 ¹⁰	4 ²⁸	15 ³¹	2 ⁵⁶	7 ⁵⁸	22 ²¹	3 ⁷	2 ³⁶	26 ²⁷	12 ²	S 4
S 5	18 52 47	13 ¹⁷ 26	7 ³⁸	5 ¹⁵	28 ⁴¹	7 ⁴⁷	4 ⁴⁰	15 ³⁹	2 ⁵⁶	7 ⁵⁷	22 ²³	3 ⁵	2 ³³	26 ³³	12 ⁴	S 5
M 6	18 56 44	14 ¹⁴ 38	19 ³¹	4 ⁵¹	29 ³⁶	8 ²⁴	4 ⁵³	15 ⁴⁶	2 ⁵⁷	7 ⁵⁶	22 ²⁴	3 ⁴	2 ³⁰	26 ⁴⁰	12 ⁶	M 6
T 7	19 0 40	15 ¹¹ 51	1 ²⁹	4 ³¹	0 ³¹	9 ¹	5 ⁵	15 ⁵³	2 ⁵⁷	7 ⁵⁶	22 ²⁶	3 ³	2 ²⁷	26 ⁴⁷	12 ⁹	T 7
W 8	19 4 37	16 ⁹ 04	13 ³⁷	4 ¹⁵	1 ²⁵	9 ³⁷	5 ¹⁷	16 ⁰	2 ⁵⁷	7 ⁵⁵	22 ²⁸	3 ^{D 3}	2 ²³	26 ⁵⁴	12 ¹¹	W 8
T 9	19 8 33	17 ⁶ 16	26 ⁰	4 ³	2 ¹⁹	10 ¹³	5 ³⁰	16 ⁷	2 ⁵⁷	7 ⁵⁴	22 ²⁹	3 ³	2 ²⁰	27 ⁰	12 ¹³	T 9
F 10	19 12 30	18 ³ 30	8 ⁴¹	3 ⁵⁶	3 ¹³	10 ⁴⁹	5 ⁴²	16 ¹⁴	2 ⁵⁷	7 ⁵³	22 ³¹	3 ⁴	2 ¹⁷	27 ⁷	12 ¹⁵	F 10
S 11	19 16 26	19 ⁰ 43	21 ⁴⁴	3 ^{D 54}	4 ⁵	11 ²⁵	5 ⁵⁴	16 ²¹	2 ⁵⁶	7 ⁵²	22 ³²	3 ⁵	2 ¹⁴	27 ¹⁴	12 ¹⁷	S 11
S 12	19 20 23	19 ⁵⁷ 57	5 ¹¹ 12	3 ⁵⁷	4 ⁵⁷	12 ¹	6 ⁶	16 ²⁸	2 ⁵⁶	7 ⁵¹	22 ³⁴	3 ⁶	2 ¹¹	27 ²⁰	12 ¹⁹	S 12
M13	19 24 19	20 ⁵⁵ 12	19 ⁶	4 ⁵	5 ⁴⁹	12 ³⁶	6 ¹⁸	16 ³⁵	2 ⁵⁶	7 ⁵⁰	22 ³⁵	3 ⁷	2 ⁸	27 ²⁷	12 ²¹	M13
T 14	19 28 16	21 ⁵² 27	3 ⁵² 24	4 ¹⁸	6 ⁴⁰	13 ¹¹	6 ³⁰	16 ⁴²	2 ⁵⁶	7 ⁴⁹	22 ³⁷	3 ^{R 7}	2 ⁴	27 ³⁴	12 ²³	T 14
W15	19 32 13	22 ⁴⁹ 42	18 ³	4 ³⁷	7 ³⁰	13 ⁴⁶	6 ⁴²	16 ⁴⁹	2 ⁵⁵	7 ⁴⁸	22 ³⁹	3 ⁷	2 ¹	27 ⁴⁰	12 ²⁴	W15
T 16	19 36 9	23 ⁴⁶ 57	2 ⁵⁸	5 ¹	8 ²⁰	14 ²¹	6 ⁵⁴	16 ⁵⁶	2 ⁵⁵	7 ⁴⁷	22 ⁴⁰	3 ⁵	1 ⁵⁸	27 ⁴⁷	12 ²⁶	T 16
F 17	19 40 6	24 ⁴⁴ 12	17 ⁵⁹	5 ³⁰	9 ⁸	14 ⁵⁵	7 ⁵	17 ²	2 ⁵⁵	7 ⁴⁶	22 ⁴²	3 ³	1 ⁵⁵	27 ⁵⁴	12 ²⁸	F 17
S 18	19 44 2	25 ⁴¹ 28	2 ⁵⁸	6 ⁴	9 ⁵⁶	15 ²⁹	7 ¹⁷	17 ⁹	2 ⁵⁴	7 ⁴⁵	22 ⁴³	3 ⁰	1 ⁵²	28 ¹	12 ²⁹	S 18
S 19	19 47 59	26 ³⁸ 43	17 ⁴⁷	6 ⁴⁴	10 ⁴⁴	16 ³	7 ²⁹	17 ¹⁶	2 ⁵⁴	7 ⁴⁴	22 ⁴⁵	2 ⁵⁷	1 ⁴⁹	28 ⁷	12 ³¹	S 19
M20	19 51 55	27 ³⁵ 59	2 ⁴⁹	7 ²⁹	11 ³⁰	16 ³⁷	7 ⁴⁰	17 ²²	2 ⁵³	7 ⁴³	22 ⁴⁶	2 ⁵⁵	1 ⁴⁵	28 ¹⁴	12 ³³	M20
T 21	19 55 52	28 ³³ 15	16 ³⁰	8 ¹⁹	12 ¹⁶	17 ¹⁰	7 ⁵¹	17 ²⁹	2 ⁵²	7 ⁴¹	22 ⁴⁸	2 ⁵³	1 ⁴²	28 ²¹	12 ³⁴	T 21
W22	19 59 48	29 ³⁰ 31	0 ¹⁸	9 ¹⁴	13 ¹	17 ⁴³	8 ³	17 ³⁵	2 ⁵²	7 ⁴⁰	22 ⁵⁰	2 ^{D 53}	1 ³⁹	28 ²⁷	12 ³⁶	W22
T 23	20 3 45	0 ¹² 747	13 ⁴⁴	10 ¹⁵	13 ⁴⁴	18 ¹⁶	8 ¹⁴	17 ⁴²	2 ⁵¹	7 ³⁹	22 ⁵¹	2 ⁵³	1 ³⁶	28 ³⁴	12 ³⁷	T 23
F 24	20 7 42	1 ²⁵ 03	26 ⁴⁹	11 ²⁰	14 ²⁷	18 ⁴⁹	8 ²⁵	17 ⁴⁸	2 ⁵⁰	7 ³⁸	22 ⁵³	2 ⁵⁵	1 ³³	28 ⁴¹	12 ³⁸	F 24
S 25	20 11 38	2 ²² 20	9 ³⁶	12 ³⁰	15 ⁹	19 ²¹	8 ³⁶	17 ⁵⁵	2 ⁵⁰	7 ³⁷	22 ⁵⁴	2 ⁵⁶	1 ²⁹	28 ⁴⁷	12 ⁴⁰	S 25
S 26	20 15 35	3 ¹⁹ 37	22 ⁸	13 ⁴⁵	15 ⁵⁰	19 ⁵³	8 ⁴⁷	18 ¹	2 ⁴⁹	7 ³⁵	22 ⁵⁶	2 ⁵⁸	1 ²⁶	28 ⁵⁴	12 ⁴¹	S 26
M27	20 19 31	4 ¹⁶ 54	4 ³⁸	15 ⁵	16 ³⁰	20 ²⁵	8 ⁵⁸	18 ⁷	2 ⁴⁸	7 ³⁴	22 ⁵⁷	2 ^{R 58}	1 ²³	29 ¹	12 ⁴²	M27
T 28	20 23 28	5 ¹⁴ 12	16 ³⁸	16 ²⁹	17 ⁹	20 ⁵⁶	9 ⁸	18 ¹³	2 ⁴⁷	7 ³³	22 ⁵⁹	2 ⁵⁷	1 ²⁰	29 ⁸	12 ⁴³	T 28
W29	20 27 24	6 ¹¹ 30	28 ⁴¹	17 ⁵⁸	17 ⁴⁶	21 ²⁷	9 ¹⁹	18 ¹⁹	2 ⁴⁶	7 ³¹	23 ⁰	2 ⁵⁵	1 ¹⁷	29 ¹⁴	12 ⁴⁴	W29
T 30	20 31 21	7 ⁸ 49	10 ³⁸	19 ³¹	18 ²³	21 ⁵⁸	9 ²⁹	18 ²⁵	2 ⁴⁵	7 ³⁰	23 ²	2 ⁵¹	1 ¹⁴	29 ²¹	12 ⁴⁵	T 30
F 31	20 35 17	8 ⁵	22 ³¹	21 ⁵⁹	18 ⁵⁸	22 ²⁸	9 ⁴⁰	18 ³¹	2 ⁴⁴	7 ²⁹	23 ⁴	2 ³⁴	1 ³⁰	29 ²⁸	12 ⁴⁶	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	lat	lat
W 1	23n 5	20s27	1n31	18n45	4s29	14n29	1n21	0s35	2s56	20n 7	0s48	21n 4	1s32	0n28	0s45	9s12	0s41	21n32	0s 2	23s23	23s23	8s55	14n31	0s56
T 2	23 0	17 13	2 33	18 40	4 35	14 6	1 17	0 21	2 57	20 9	0 48	21 5	1 32	0 28	0 45	9 12	0 41	21 32	0 2	23 23	23 23	8 52	14 31	0 56
F 3	22 56	13 20	3 27	18 36	4 41	13 42	1 12	0 8	2 58	20 12	0 48	21 6	1 32	0 28	0 45	9 12	0 41	21 32	0 2	23 23	23 23	8 49	14 32	0 56
S 4	22 51	8 58	4 12	18 34	4 44	13 18	1 7	0n 6	2 59	20 14	0 48	21 7	1 32	0 28	0 45	9 13	0 41	21 32	0 2	23 23	23 23	8 46	14 32	0 56
S 5	22 45	4 16	4 46	18 33	4 46	12 54	1 2	0 19	3 1	20 16	0 48	21 8	1 32	0 29	0 45	9 13	0 41	21 32	0 2	23 23	23 23	8 44	14 33	0 56
M 6	22 39	0n34	5 8	18 33	4 47	12 30	0 57	0 32	3 2	20 18	0 48	21 8	1 32	0 29	0 45	9 13	0 41	21 31	0 2	23 23	23 24	8 41	14 34	0 56
T 7	22 33	5 25	5 16	18 35	4 46	12 5	0 52	0 46	3 3	20 21	0 48	21 9	1 32	0 29	0 45	9 14	0 41	21 31	0 2	23 23	23 24	8 38	14 34	0 56
W 8	22 26	10 9	5 11	18 38	4 43	11 41	0 46	0 59	3 4	20 23	0 48	21 10	1 32	0 28	0 45	9 14	0 41	21 31	0 2	23 23	23 24	8 36	14 35	0 57
T 9	22 19	14 33	4 51	18 42	4 40	11 16	0 41	1 12	3 6	20 25	0 48	21 10	1 32	0 28	0 45	9 14	0 41	21 31	0 2	23 23	23 24	8 33	14 35	0 57
F 10	22 12	18 26	4 17	18 47	4 34	10 52	0 35	1 25	3 7	20 27	0 48	21 11	1 32	0 28	0 45	9 15	0 41	21 31	0 2	23 23	23 24	8 30	14 36	0 57
S 11	22 4	21 33	3 29	18 53	4 28	10 27	0 29	1 38	3 8	20 29	0 48	21 12	1 32	0 28	0 46	9 15	0 41	21 30	0 2	23 23	23 24	8 27	14 36	0 57
S 12	21 56	23 35	2 28	19 1	4 21	10 2	0 23	1 50	3 9	20 31	0 48	21 13	1 32	0 28	0 46	9 16	0 41	21 30	0 2	23 23	23 24	8 25	14 37	0 57
M13	21 47	24 15	1 17	19 9	4 12	9 37	0 16	2 3	3 10	20 33	0 48	21 13	1 32	0 28	0 46	9 16	0 41	21 30	0 1	23 23	23 24	8 22	14 37	0 57
T 14	21 38	23 21	0s 2	19 18	4 3	9 12	0 10	2 16	3 11	20 35	0 48	21 14	1 32	0 28	0 46	9 16	0 42	21 30	0 1	23 23	23 24	8 19	14 38	0 57
W15	21 29	20 51	1 21	19 28	3 52	8 47	0 3	2 28	3 13	20 37	0 48	21 14	1 32	0 28	0 46	9 17	0 42	21 30	0 1	23 23	23 24	8 16	14 38	0 58
T 16	21 19	16 56	2 37	19 38	3 41	8 23	0s 4	2 40	3 14	20 39	0 48	21 15	1 32	0 28	0 46	9 17	0 42	21 29	0 1	23 23	23 24	8 14	14 38	0 58
F 17	21 9	11 54	3 42	19 49	3 29	7 58	0 11	2 53	3 15	20 41	0 48	21 16	1 32	0 27	0 46	9 18	0 42	21 29	0 1	23 23	23 24	8 11	14 39	0 58
S 18	20 59	6 10	4 32	20 0	3 17	7 33	0 19	3 5	3 16	20 43	0 48	21 16	1 32	0 27	0 46	9 18	0 42	21 29	0 1	23 23	23 24	8 8	14 39	0 58
S 19	20 48	0 10	5 3	20 11	3 4	7 8	0 26	3 17	3 17	20 45	0 48	21 17	1 32	0 27	0 46	9 18	0 42	21 29	0 1	23 23	23 24	8 5	14 39	0 58
M20	20 37	5s43	5 14	20 22	2 51	6 43	0 34	3 28	3 18	20 47	0 48	21 18	1 32	0 27	0 46	9 19	0 42	21 29	0 1	23 23	23 24	8 3	14 40	0 58
T 21	20 26	11 11	5 5	20 32	2 37	6 19	0 42	3 40	3 19	20 49	0 48	21 18	1 32	0 26	0 46	9 19	0 42	21 29	0 1	23 23	23 24	8 0	14 40	0 58
W22	20 14	15 55	4 39	20 43	2 23	5 54	0 50	3 52	3 20	20 50	0 48	21 19	1 32	0 26	0 46	9 20	0 42	21 28	0 1	23 23	23 24	7 57	14 40	0 58
T 23	20 2	19 44	3 58	20 53	2 9	5 30	0 58	4 3	3 21	20 52	0 48	21 19	1 32	0 26	0 46	9 20	0 42	21 28	0 1	23 23	23 24	7 54	14 41	0 59
F 24	19 49	22 26	3 5	21 2	1 55	5 5	1 7	4 14	3 22	20 54	0 48	21 20	1 32	0 25	0 46	9 21	0 42	21 28	0 1	23 23	23 24	7 52	14 41	0 59
S 25	19 37	23 55	2 5	21 10	1 40	4 41	1 15	4 26	3 23	20 56	0 48	21 20	1 32	0 25	0 46	9 21	0 42	21 28	0 1	23 23	23 24	7 49	14 41	0 59
S 26	19 24	24 10	0 59	21 17	1 26	4 17	1 24	4 37	3 24	20 57	0 48	21 21	1 32	0 25	0 46	9 22	0 42	21 28	0 1	23 23	23 24	7 46	14 42	0 59
M27	19 10	23 12	0n 8	21 23	1 11	3 54	1 33	4 48	3 25	20 59	0 48	21 21	1 32	0 24	0 46	9 22	0 42	21 27	0 1	23 23	23 25	7 43	14 42	0 59
T 28	18 56	21 9	1 14	21 27	0 57	3 30	1 42	4 58	3 26	21 0	0 48	21 22	1 32	0 24	0 46	9 23	0 42	21 27	0 1	23 23	23 25	7 41	14 42	0 59
W29	18 42	18 11	2 16	21 30	0 43	3 7	1 52	5 9	3 27	21 2	0 48	21 22	1 32	0 24	0 46	9 23	0 42	21 27	0 0	23 23	23 25	7 38	14 42	0 59
T 30	18 28	14 29	3 11	21 30	0 30	2 44	2 2	5 20	3 28	21 4	0 48	21 23	1 32	0 23	0 46	9 24	0 42	21 27	0 0	23 23	23 25	7 35	14 42	1 0
F 31	18n13	10s15	3n57	21n29	0s16	2n21	2s11	5n30	3s29	21n 5	0s48	21n23	1s32	0n23	0s46	9s24	0s42	21n27	0s 0	23s23	23s25	7s33	14n42	1s 0

ASTRODIENST EPHEMERIS for the year 2178

geocentric

AUGUST 2178

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 39 14	9♌ 3'29	4♋22	22♊50	19♏32	22♏59	9♏50	18♏37	2°R43	7°R27	23♊ 5	2°R39	1♊ 7	29♊34	12♊47	S 1
S 2	20 43 11	10° 0'50	16°14	24°35	20° 4	23°28	10° 0	18°43	2°Y42	7°K26	23° 7	2♊32	1° 4	29°41	12°48	S 2
M 3	20 47 7	10°58'12	28° 8	26°23	20°35	23°58	10°10	18°49	2°40	7°24	23° 8	2°26	1° 1	29°48	12°49	M 3
T 4	20 51 4	11°55'35	10°Y 7	28°14	21° 5	24°27	10°20	18°55	2°39	7°23	23°10	2°21	0°58	29°54	12°50	T 4
W 5	20 55 0	12°52'59	22°15	0♌ 8	21°33	24°55	10°30	19° 0	2°38	7°22	23°11	2°17	0°55	0♋ 1	12°50	W 5
T 6	20 58 57	13°50'24	4♋36	2° 5	22° 0	25°24	10°40	19° 6	2°37	7°20	23°13	2°15	0°51	0° 8	12°51	T 6
F 7	21 2 53	14°47'51	17°13	4° 4	22°25	25°51	10°49	19°11	2°35	7°19	23°14	2°D14	0°48	0°15	12°51	F 7
S 8	21 6 50	15°45'19	0♏11	6° 4	22°49	26°19	10°59	19°17	2°34	7°17	23°16	2°15	0°45	0°21	12°52	S 8
S 9	21 10 46	16°42'48	13°33	8° 6	23°10	26°46	11° 8	19°22	2°33	7°16	23°17	2°16	0°42	0°28	12°52	S 9
M10	21 14 43	17°40'18	27°22	10° 9	23°30	27°12	11°18	19°28	2°31	7°14	23°19	2°R17	0°39	0°35	12°53	M10
T 11	21 18 40	18°37'50	11♊38	12°12	23°49	27°39	11°27	19°33	2°30	7°13	23°20	2°17	0°35	0°41	12°53	T 11
W12	21 22 36	19°35'23	26°20	14°16	24° 5	28° 4	11°36	19°38	2°28	7°11	23°21	2°15	0°32	0°48	12°53	W12
T 13	21 26 33	20°32'57	11♌23	16°20	24°19	28°29	11°45	19°43	2°26	7°10	23°23	2°11	0°29	0°55	12°54	T 13
F 14	21 30 29	21°30'32	26°37	18°24	24°32	28°54	11°54	19°48	2°25	7° 8	23°24	2° 5	0°26	1° 2	12°54	F 14
S 15	21 34 26	22°28'08	11♏52	20°27	24°42	29°18	12° 2	19°53	2°23	7° 6	23°26	1°57	0°23	1° 8	12°54	S 15
S 16	21 38 22	23°25'45	26°58	22°30	24°50	29°42	12°11	19°58	2°22	7° 5	23°27	1°50	0°20	1°15	12°54	S 16
M17	21 42 19	24°23'23	11♋46	24°32	24°57	0♋ 5	12°19	20° 3	2°20	7° 3	23°29	1°43	0°16	1°22	12°54	M17
T 18	21 46 15	25°21'02	26° 8	26°33	25° 0	0°28	12°28	20° 8	2°18	7° 2	23°30	1°38	0°13	1°28	12°54	T 18
W19	21 50 12	26°18'42	10♏ 3	28°33	25°R 2	0°50	12°36	20°12	2°16	7° 0	23°31	1°35	0°10	1°35	12°54	W19
T 20	21 54 9	27°16'23	2♊30	0♏31	25° 1	1°12	12°44	20°17	2°14	6°58	23°33	1°D33	0° 7	1°42	12°54	T 20
F 21	21 58 5	28°14'05	6♋32	2°29	24°58	1°33	12°52	20°21	2°13	6°57	23°34	1°33	0° 4	1°48	12°54	F 21
S 22	22 2 2	29°11'49	19°12	4°26	24°53	1°53	12°59	20°26	2°11	6°55	23°35	1°34	0° 0	1°55	12°53	S 22
S 23	22 5 58	0♏ 9'33	1♊34	6°21	24°45	2°13	13° 7	20°30	2° 9	6°54	23°37	1°R35	29♊57	2° 2	12°53	S 23
M24	22 9 55	1° 7'18	13°44	8°14	24°35	2°33	13°14	20°34	2° 7	6°52	23°38	1°34	29°54	2° 9	12°53	M24
T 25	22 13 51	2° 5'05	25°44	10° 7	24°22	2°51	13°22	20°38	2° 5	6°50	23°39	1°31	29°51	2°15	12°52	T 25
W26	22 17 48	3° 2'53	7♊39	11°58	24° 7	3° 9	13°29	20°42	2° 3	6°49	23°41	1°26	29°48	2°22	12°52	W26
T 27	22 21 44	4° 0'42	19°31	13°47	23°50	3°27	13°36	20°46	2° 1	6°47	23°42	1°18	29°45	2°29	12°51	T 27
F 28	22 25 41	4°58'32	1♋23	15°36	23°30	3°44	13°43	20°50	1°59	6°45	23°43	1° 8	29°41	2°35	12°50	F 28
S 29	22 29 38	5°56'24	13°15	17°23	23° 8	4° 0	13°49	20°54	1°57	6°44	23°44	0°56	29°38	2°42	12°50	S 29
S 30	22 33 34	6°54'17	25°10	19° 8	22°44	4°16	13°56	20°58	1°55	6°42	23°46	0°44	29°35	2°49	12°49	S 30
M31	22 37 31	7♏52'12	7°Y 8	20♏53	22♏18	4♋30	14♏ 2	21♏ 1	1°Y53	6°K40	23♊47	0♊32	29♊32	2°K56	12♊48	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	17n58	5s39	4n33	21n26	0s 4	1n58	2s21	5n40	3s30	21n 7	0s48	21n24	1s32	0n22	0s46	9s25
S 2	17 43	0 51	4 58	21 20	0n 9	1 36	2 32	5 50	3 31	21 8	0 48	21 24	1 32	0 22	0 46	9 25
M 3	17 28	3n59	5 9	21 12	0 21	1 15	2 42	6 0	3 32	21 9	0 48	21 25	1 33	0 21	0 46	9 26
T 4	17 12	8 43	5 7	21 1	0 32	0 53	2 53	6 10	3 33	21 11	0 48	21 25	1 33	0 21	0 46	9 26
W 5	16 56	13 10	4 51	20 47	0 42	0 32	3 3	6 19	3 34	21 12	0 48	21 25	1 33	0 20	0 46	9 27
T 6	16 39	17 9	4 22	20 31	0 52	0 12	3 14	6 29	3 35	21 14	0 48	21 26	1 33	0 20	0 46	9 28
F 7	16 23	20 28	3 40	20 13	1 1	0s 8	3 25	6 38	3 35	21 15	0 48	21 26	1 33	0 19	0 46	9 28
S 8	16 6	22 51	2 45	19 51	1 9	0 28	3 37	6 47	3 36	21 16	0 48	21 27	1 33	0 19	0 46	9 29
S 9	15 49	24 3	1 40	19 27	1 17	0 47	3 48	6 56	3 37	21 17	0 49	21 27	1 33	0 18	0 46	9 29
M10	15 31	23 50	0 27	19 1	1 23	1 6	4 0	7 5	3 38	21 19	0 49	21 27	1 33	0 17	0 46	9 30
T 11	15 14	22 4	0s50	18 32	1 29	1 24	4 11	7 13	3 39	21 20	0 49	21 28	1 33	0 17	0 46	9 30
W12	14 56	18 48	2 6	18 1	1 33	1 41	4 23	7 22	3 39	21 21	0 49	21 28	1 33	0 16	0 47	9 31
T 13	14 38	14 14	3 15	17 29	1 37	1 57	4 35	7 30	3 40	21 22	0 49	21 28	1 33	0 15	0 47	9 32
F 14	14 19	8 42	4 10	16 54	1 41	2 13	4 47	7 38	3 41	21 23	0 49	21 29	1 33	0 15	0 47	9 32
S 15	14 1	2 40	4 48	16 17	1 43	2 29	4 59	7 46	3 41	21 24	0 49	21 29	1 33	0 14	0 47	9 33
S 16	13 42	3s28	5 5	15 39	1 45	2 43	5 11	7 53	3 42	21 25	0 49	21 29	1 33	0 13	0 47	9 33
M17	13 23	9 17	5 2	14 59	1 45	2 56	5 23	8 1	3 43	21 26	0 49	21 29	1 33	0 13	0 47	9 34
T 18	13 4	14 25	4 39	14 19	1 46	3 9	5 35	8 8	3 43	21 27	0 49	21 30	1 34	0 12	0 47	9 35
W19	12 44	18 37	4 1	13 37	1 45	3 21	5 48	8 15	3 44	21 28	0 49	21 30	1 34	0 11	0 47	9 35
T 20	12 24	21 41	3 10	12 54	1 44	3 32	6 0	8 22	3 44	21 29	0 49	21 30	1 34	0 11	0 47	9 36
F 21	12 5	23 31	2 10	12 10	1 42	3 41	6 12	8 29	3 45	21 30	0 49	21 30	1 34	0 10	0 47	9 36
S 22	11 45	24 4	1 6	11 26	1 40	3 50	6 23	8 35	3 45	21 31	0 49	21 31	1 34	0 9	0 47	9 37
S 23	11 24	23 24	0 0	10 41	1 37	3 58	6 35	8 42	3 46	21 32	0 49	21 31	1 34	0 8	0 47	9 38
M24	11 4	21 38	1n 5	9 55	1 34	4 4	6 47	8 48	3 46	21 33	0 49	21 31	1 34	0 7	0 47	9 39
T 25	10 43	18 55	2 5	9 9	1 30	4 10	6 58	8 54	3 46	21 34	0 49	21 31	1 34	0 7	0 47	9 39
W26	10 23	15 26	3 0	8 23	1 26	4 14	7 9	9 0	3 47	21 35	0 49	21 31	1 34	0 6	0 47	9 40
T 27	10 2	11 22	3 46	7 37	1 21	4 17	7 19	9 5	3 47	21 36	0 49	21 32	1 34	0 5	0 47	9 40
F 28	9 41	6 52	4 23	6 51	1 16	4 18	7 30	9 11	3 47	21 36	0 50	21 32	1 34	0 4	0 47	9 41
S 29	9 19	2 8	4 48	6 4	1 11	4 19	7 39	9 16	3 48	21 37	0 50	21 32	1 34	0 3	0 47	9 41
S 30	8 58	2n41	5 1	5 18	1 5	4 18	7 48	9 21	3 48	21 38	0 50	21 32	1 35	0 3	0 47	9 42
M31	8n37	7n25	5n 0	4n31	0n59	4s15	7s57	9n26	3s48	21n38	0s50	21n32	1s35	0n 2	0s47	9s43

Julian Day Number = 2516770.5, Delta T = 143.50 sec
 Ecliptic obliquity = 23°24'58, Nutation = 0°00'19, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°14'09, Lahiri = 26°21'09

ASTRODIENST EPHEMERIS for the year 2178

geocentric

OCTOBER 2178

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 39 44	8♌ 2'31	23♏27	3♌56	8°D49	5°R33	15♌54	22♏ 3	0°R40	5°R53	24♏15	27°R12	27♏53	6♌24	11°R59	T 1
F 2	0 43 40	9° 1'25	6♏11	4°52	8♏51	5♏21	15°54	22° 3	0°Y38	5♌52	24°16	27♏ 8	27°50	6°30	11♏56	F 2
S 3	0 47 37	10° 0'20	19° 9	5°45	8°55	5° 9	15°55	22° 3	0°36	5°50	24°16	27° 6	27°47	6°37	11°54	S 3
S 4	0 51 33	10°59'18	2♏24	6°35	9° 1	4°56	15°R55	22°R 3	0°33	5°49	24°17	27°D 6	27°44	6°44	11°52	S 4
M 5	0 55 30	11°58'19	15°59	7°21	9° 9	4°42	15°55	22° 3	0°31	5°48	24°17	27°R 6	27°41	6°50	11°49	M 5
T 6	0 59 27	12°57'21	29°54	8° 3	9°20	4°28	15°55	22° 3	0°28	5°46	24°18	27° 5	27°37	6°57	11°47	T 6
W 7	1 3 23	13°56'26	14♏12	8°42	9°33	4°13	15°54	22° 3	0°26	5°45	24°18	27° 2	27°34	7° 4	11°44	W 7
T 8	1 7 20	14°55'34	28°50	9°15	9°48	3°57	15°54	22° 2	0°24	5°44	24°18	26°57	27°31	7°11	11°42	T 8
F 9	1 11 16	15°54'43	13♏43	9°44	10° 4	3°41	15°53	22° 2	0°22	5°43	24°19	26°49	27°28	7°17	11°39	F 9
S 10	1 15 13	16°53'55	28°44	10° 8	10°23	3°24	15°52	22° 1	0°19	5°42	24°19	26°39	27°25	7°24	11°36	S 10
S 11	1 19 9	17°53'08	13♌44	10°26	10°44	3° 7	15°50	22° 1	0°17	5°41	24°20	26°28	27°22	7°31	11°34	S 11
M12	1 23 6	18°52'24	28°33	10°37	11° 7	2°49	15°49	22° 0	0°15	5°40	24°20	26°18	27°18	7°37	11°31	M12
T 13	1 27 2	19°51'42	13♌ 2	10°R42	11°31	2°31	15°47	21°59	0°12	5°38	24°20	26°10	27°15	7°44	11°29	T 13
W14	1 30 59	20°51'02	27° 6	10°39	11°57	2°12	15°46	21°58	0°10	5°37	24°21	26° 4	27°12	7°51	11°26	W14
T 15	1 34 56	21°50'24	10♏43	10°29	12°25	1°53	15°43	21°57	0° 8	5°36	24°21	26° 1	27° 9	7°58	11°23	T 15
F 16	1 38 52	22°49'47	23°52	10°11	12°54	1°34	15°41	21°55	0° 6	5°35	24°21	26°D 0	27° 6	8° 4	11°20	F 16
S 17	1 42 49	23°49'13	6♏36	9°45	13°25	1°15	15°39	21°54	0° 4	5°34	24°21	26° 0	27° 3	8°11	11°18	S 17
S 18	1 46 45	24°48'40	19° 0	9°10	13°57	0°55	15°36	21°53	0° 2	5°34	24°21	26°R 1	26°59	8°18	11°15	S 18
M19	1 50 42	25°48'09	1♏ 8	8°26	14°31	0°36	15°33	21°51	29♏59	5°33	24°22	26° 1	26°56	8°24	11°12	M19
T 20	1 54 38	26°47'39	13° 5	7°35	15° 6	0°16	15°30	21°49	29°57	5°32	24°22	25°59	26°53	8°31	11° 9	T 20
W21	1 58 35	27°47'11	24°57	6°36	15°42	29♏57	15°27	21°48	29°55	5°31	24°22	25°55	26°50	8°38	11° 6	W21
T 22	2 2 31	28°46'45	6♌48	5°31	16°20	29°37	15°24	21°46	29°53	5°30	24°22	25°49	26°47	8°45	11° 4	T 22
F 23	2 6 28	29°46'21	18°42	4°21	16°59	29°17	15°20	21°44	29°51	5°29	24°22	25°41	26°43	8°51	11° 1	F 23
S 24	2 10 25	0♌45'59	0°Y42	3° 7	17°39	28°58	15°16	21°42	29°49	5°28	24°22	25°31	26°40	8°58	10°58	S 24
S 25	2 14 21	1°45'38	12°51	1°52	18°21	28°39	15°12	21°39	29°47	5°28	24°R22	25°21	26°37	9° 5	10°55	S 25
M26	2 18 18	2°45'20	25° 9	0°38	19° 3	28°20	15° 8	21°37	29°46	5°27	24°22	25°11	26°34	9°11	10°52	M26
T 27	2 22 14	3°45'03	7♏38	29♏26	19°46	28° 1	15° 4	21°35	29°44	5°26	24°22	25° 2	26°31	9°18	10°49	T 27
W28	2 26 11	4°44'48	20°18	28°20	20°31	27°43	14°59	21°32	29°42	5°26	24°22	24°55	26°28	9°25	10°46	W28
T 29	2 30 7	5°44'36	3♏ 8	27°22	21°17	27°25	14°55	21°30	29°40	5°25	24°22	24°50	26°24	9°32	10°43	T 29
F 30	2 34 4	6°44'26	16°10	26°32	22° 3	27° 7	14°50	21°27	29°38	5°24	24°22	24°48	26°21	9°38	10°40	F 30
S 31	2 38 0	7♌44'17	29♏24	25♏52	22♏51	26°Y50	14♏45	21♏24	29♏37	5♌24	24♏22	24°D48	26♏18	9♌45	10♏37	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	3s11	21n19	2n48	15s31	2s52	2n39	6s 3	10n11	3s22	21n49	0s52	21n33	1s38	0s27	0s47	10s 0
F 2	3 34	23 6	1 48	15 55	2 58	2 49	5 51	10 9	3 20	21 49	0 52	21 33	1 38	0 28	0 47	10 1
S 3	3 58	23 40	0 42	16 18	3 3	2 59	5 39	10 7	3 18	21 49	0 52	21 33	1 38	0 29	0 47	10 1
S 4	4 21	22 56	0s28	16 40	3 8	3 8	5 27	10 5	3 15	21 49	0 52	21 33	1 38	0 30	0 47	10 2
M 5	4 44	20 50	1 38	16 59	3 13	3 16	5 15	10 3	3 13	21 49	0 52	21 33	1 38	0 31	0 47	10 2
T 6	5 7	17 28	2 45	17 17	3 17	3 23	5 2	10 0	3 10	21 49	0 52	21 33	1 38	0 32	0 47	10 3
W 7	5 30	13 0	3 42	17 33	3 21	3 30	4 50	9 58	3 8	21 49	0 52	21 33	1 38	0 33	0 47	10 3
T 8	5 53	7 42	4 27	17 47	3 24	3 35	4 38	9 55	3 5	21 49	0 52	21 32	1 38	0 34	0 47	10 4
F 9	6 15	1 52	4 54	17 58	3 26	3 40	4 27	9 53	3 2	21 48	0 52	21 32	1 38	0 34	0 47	10 4
S 10	6 38	4s 7	5 2	18 7	3 27	3 44	4 15	9 50	2 59	21 48	0 52	21 32	1 39	0 35	0 47	10 4
S 11	7 1	9 50	4 49	18 13	3 28	3 47	4 3	9 47	2 56	21 48	0 52	21 32	1 39	0 36	0 47	10 5
M12	7 23	14 56	4 16	18 16	3 27	3 49	3 52	9 44	2 53	21 48	0 52	21 32	1 39	0 37	0 47	10 5
T 13	7 46	19 2	3 28	18 16	3 26	3 51	3 40	9 40	2 50	21 48	0 52	21 32	1 39	0 38	0 47	10 6
W14	8 8	21 53	2 27	18 13	3 23	3 51	3 29	9 37	2 47	21 47	0 52	21 32	1 39	0 39	0 47	10 6
T 15	8 30	23 22	1 21	18 6	3 19	3 51	3 18	9 34	2 43	21 47	0 52	21 31	1 39	0 40	0 47	10 6
F 16	8 52	23 28	0 11	17 55	3 13	3 50	3 7	9 31	2 40	21 47	0 52	21 31	1 39	0 41	0 47	10 7
S 17	9 14	22 19	0n56	17 39	3 6	3 48	2 56	9 27	2 36	21 47	0 52	21 31	1 39	0 41	0 47	10 7
S 18	9 36	20 6	2 0	17 20	2 57	3 46	2 45	9 24	2 33	21 46	0 52	21 31	1 39	0 42	0 47	10 7
M19	9 58	17 1	2 56	16 55	2 46	3 43	2 35	9 21	2 29	21 46	0 52	21 31	1 39	0 43	0 47	10 8
T 20	10 19	13 17	3 44	16 27	2 34	3 39	2 24	9 17	2 25	21 46	0 52	21 31	1 39	0 44	0 47	10 8
W21	10 41	9 4	4 22	15 54	2 19	3 34	2 14	9 14	2 21	21 45	0 52	21 30	1 40	0 45	0 47	10 8
T 22	11 2	4 32	4 49	15 17	2 3	3 29	2 4	9 11	2 18	21 45	0 52	21 30	1 40	0 45	0 47	10 9
F 23	11 23	0n11	5 3	14 37	1 46	3 23	1 54	9 7	2 14	21 44	0 52	21 30	1 40	0 46	0 47	10 9
S 24	11 44	4 55	5 4	13 54	1 27	3 16	1 45	9 4	2 10	21 44	0 52	21 30	1 40	0 47	0 47	10 9
S 25	12 4	9 32	4 51	13 9	1 7	3 9	1 35	9 1	2 6	21 44	0 53	21 30	1 40	0 48	0 47	10 9
M26	12 25	13 50	4 25	12 24	0 46	3 1	1 26	8 58	2 2	21 43	0 53	21 29	1 40	0 48	0 47	10 10
T 27	12 45	17 36	3 46	11 40	0 26	2 52	1 17	8 55	1 58	21 43	0 53	21 29	1 40	0 49	0 47	10 10
W28	13 5	20 36	2 55	10 57	0 5	2 43	1 8	8 53	1 54	21 42	0 53	21 29	1 40	0 50	0 46	10 10
T 29	13 25	22 38	1 54	10 18	0n15	2 33	0 59	8 50	1 50	21 42	0 53	21 29	1 40	0 51	0 46	10 10
F 30	13 45	23 28	0 46	9 42	0 34	2 22	0 51	8 47	1 46	21 41	0 53	21 29	1 40	0 51	0 46	10 11
S 31	14s 5	23n 0	0s25	9s11	0n51	2n11	0s43	8n45	1s42	21n40	0s53	21n28	1s40	0s52	0s46	10s11

Julian Day Number = 2516831.5, Delta T = 143.64 sec
 Ecliptic obliquity = 23°24'58, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°14'17, Lahiri = 26°21'18

ASTRODIENST EPHEMERIS for the year 2178

geocentric

DECEMBER 2178

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 40 14	8♂55'01	21♂18	29♂18	22♂38	23♂47	11°R 5	19°R20	29°R 3	5♂23	24°R 6	24♂0	24♂40	13♂13	9°R10	T 1
W 2	4 44 10	9°55'46	5♂27	0♂52	23°43	23°54	10♂57	19♂16	29♂2	5°23	24♂5	24°R 1	24°36	13°20	9♂8	W 2
T 3	4 48 7	10°56'33	19°39	2°26	24°48	24° 1	10°49	19°11	29° 2	5°24	24° 4	24° 1	24°33	13°27	9° 5	T 3
F 4	4 52 3	11°57'21	3♂51	4° 0	25°53	24° 9	10°41	19° 6	29° 2	5°25	24° 3	24° 0	24°30	13°33	9° 3	F 4
S 5	4 56 0	12°58'10	18° 1	5°34	26°59	24°17	10°33	19° 1	29° 2	5°25	24° 2	23°59	24°27	13°40	9° 1	S 5
S 6	4 59 56	13°59'01	2♂6	7° 8	28° 5	24°27	10°25	18°56	29° 2	5°26	24° 2	23°58	24°24	13°47	8°58	S 6
M 7	5 3 53	14°59'54	16° 3	8°42	29°11	24°37	10°16	18°51	29° 1	5°27	24° 1	23°56	24°20	13°54	8°56	M 7
T 8	5 7 50	16° 0'47	29°49	10°17	0♂17	24°47	10° 8	18°46	29°D 1	5°27	24° 0	23°55	24°17	14° 0	8°54	T 8
W 9	5 11 46	17° 1'42	13♂20	11°51	1°24	24°58	10° 0	18°41	29° 1	5°28	23°59	23°55	24°14	14° 7	8°52	W 9
T 10	5 15 43	18° 2'38	26°36	13°25	2°31	25°10	9°52	18°36	29° 2	5°29	23°58	23°D55	24°11	14°14	8°50	T 10
F 11	5 19 39	19° 3'35	9♂34	14°59	3°38	25°23	9°44	18°31	29° 2	5°30	23°57	23°55	24° 8	14°21	8°48	F 11
S 12	5 23 36	20° 4'33	22°15	16°33	4°45	25°36	9°36	18°26	29° 2	5°30	23°56	23°55	24° 5	14°27	8°45	S 12
S 13	5 27 32	21° 5'31	4♂40	18° 7	5°53	25°49	9°28	18°22	29° 2	5°31	23°55	23°56	24° 1	14°34	8°43	S 13
M14	5 31 29	22° 6'30	16°51	19°41	7° 1	26° 4	9°21	18°17	29° 2	5°32	23°54	23°56	23°58	14°41	8°42	M14
T 15	5 35 25	23° 7'30	28°52	21°15	8° 8	26°19	9°13	18°12	29° 3	5°33	23°53	23°56	23°55	14°47	8°40	T 15
W16	5 39 22	24° 8'30	10♂46	22°50	9°17	26°34	9° 5	18° 7	29° 3	5°34	23°51	23°R56	23°52	14°54	8°38	W16
T 17	5 43 19	25° 9'31	22°38	24°24	10°25	26°50	8°58	18° 2	29° 3	5°35	23°50	23°D56	23°49	15° 1	8°36	T 17
F 18	5 47 15	26°10'32	4♂33	25°58	11°33	27° 6	8°50	17°57	29° 4	5°36	23°49	23°56	23°46	15° 8	8°34	F 18
S 19	5 51 12	27°11'34	16°35	27°33	12°42	27°23	8°43	17°52	29° 4	5°37	23°48	23°56	23°42	15°14	8°32	S 19
S 20	5 55 8	28°12'36	28°49	29° 7	13°51	27°41	8°35	17°47	29° 5	5°38	23°47	23°57	23°39	15°21	8°31	S 20
M21	5 59 5	29°13'39	11♂19	0♂42	15° 0	27°59	8°28	17°43	29° 6	5°40	23°46	23°57	23°36	15°28	8°29	M21
T 22	6 3 1	0♂14'42	24° 7	2°17	16° 9	28°17	8°21	17°38	29° 6	5°41	23°45	23°58	23°33	15°34	8°28	T 22
W23	6 6 58	1°15'46	7♂17	3°52	17°18	28°36	8°14	17°33	29° 7	5°42	23°44	23°59	23°30	15°41	8°26	W23
T 24	6 10 54	2°16'50	20°47	5°28	18°28	28°55	8° 7	17°28	29° 8	5°43	23°42	23°R59	23°27	15°48	8°25	T 24
F 25	6 14 51	3°17'54	4♂37	7° 3	19°37	29°15	8° 1	17°24	29° 9	5°44	23°41	23°59	23°23	15°55	8°23	F 25
S 26	6 18 48	4°18'59	18°44	8°39	20°47	29°36	7°54	17°19	29°10	5°46	23°40	23°58	23°20	16° 1	8°22	S 26
S 27	6 22 44	5°20'04	3♂4	10°15	21°57	29°56	7°48	17°15	29°11	5°47	23°39	23°57	23°17	16° 8	8°21	S 27
M28	6 26 41	6°21'10	17°30	11°51	23° 7	0♂17	7°41	17°10	29°12	5°48	23°38	23°55	23°14	16°15	8°19	M28
T 29	6 30 37	7°22'17	1♂58	13°27	24°17	0°39	7°35	17° 6	29°13	5°50	23°36	23°54	23°11	16°22	8°18	T 29
W30	6 34 34	8°23'24	16°23	15° 4	25°28	1° 0	7°29	17° 1	29°14	5°51	23°35	23°52	23° 7	16°28	8°17	W30
T 31	6 38 30	9♂24'31	0♂41	16♂41	26♂38	1♂23	7♂23	16♂57	29♂15	5♂53	23♂34	23♂51	23♂4	16♂35	8♂16	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s46	10n11	4s26	19s28	0n31	6s51	2n 6	9n19	0n 6	21n15	0s51	21n19	1s40	1s 4	0s45	10s11
W 2	21 55	4 51	5 0	19 55	0 24	7 12	2 8	9 24	0 9	21 14	0 51	21 19	1 40	1 4	0 45	10 10
T 3	22 4	0s44	5 15	20 21	0 17	7 34	2 11	9 29	0 11	21 13	0 50	21 19	1 40	1 4	0 45	10 10
F 4	22 12	6 18	5 12	20 46	0 10	7 55	2 13	9 34	0 14	21 12	0 50	21 18	1 40	1 5	0 45	10 10
S 5	22 20	11 31	4 49	21 10	0 3	8 17	2 16	9 39	0 16	21 11	0 50	21 18	1 40	1 5	0 45	10 10
S 6	22 27	16 5	4 9	21 33	0s 4	8 38	2 18	9 45	0 18	21 10	0 50	21 18	1 40	1 5	0 45	10 10
M 7	22 34	19 44	3 15	21 55	0 11	8 59	2 20	9 51	0 21	21 9	0 50	21 17	1 40	1 5	0 45	10 9
T 8	22 41	22 12	2 10	22 15	0 17	9 21	2 22	9 57	0 23	21 8	0 50	21 17	1 40	1 5	0 45	10 9
W 9	22 47	23 21	0 58	22 35	0 24	9 42	2 24	10 3	0 25	21 7	0 50	21 17	1 40	1 5	0 45	10 9
T 10	22 53	23 7	0n15	22 54	0 31	10 4	2 25	10 9	0 27	21 6	0 49	21 16	1 40	1 4	0 45	10 8
F 11	22 58	21 39	1 26	23 11	0 37	10 25	2 27	10 16	0 29	21 5	0 49	21 16	1 40	1 4	0 45	10 8
S 12	23 3	19 6	2 31	23 27	0 43	10 46	2 28	10 22	0 31	21 4	0 49	21 16	1 40	1 4	0 45	10 8
S 13	23 7	15 43	3 27	23 42	0 49	11 7	2 29	10 29	0 33	21 3	0 49	21 15	1 39	1 4	0 45	10 7
M14	23 11	11 44	4 13	23 56	0 55	11 29	2 30	10 36	0 35	21 2	0 49	21 15	1 39	1 4	0 45	10 7
T 15	23 14	7 22	4 47	24 9	1 1	11 50	2 31	10 43	0 37	21 1	0 49	21 15	1 39	1 4	0 45	10 7
W16	23 17	2 45	5 9	24 20	1 7	12 10	2 32	10 50	0 39	21 0	0 48	21 14	1 39	1 4	0 45	10 6
T 17	23 20	1n56	5 17	24 30	1 13	12 31	2 32	10 58	0 41	20 59	0 48	21 14	1 39	1 3	0 45	10 6
F 18	23 22	6 35	5 12	24 39	1 18	12 52	2 33	11 5	0 42	20 58	0 48	21 14	1 39	1 3	0 45	10 6
S 19	23 23	11 1	4 53	24 47	1 23	13 12	2 33	11 13	0 44	20 57	0 48	21 13	1 39	1 3	0 45	10 5
S 20	23 24	15 6	4 20	24 53	1 28	13 32	2 33	11 21	0 46	20 56	0 48	21 13	1 39	1 3	0 45	10 5
M21	23 25	18 37	3 35	24 58	1 33	13 52	2 34	11 29	0 47	20 55	0 47	21 13	1 39	1 2	0 45	10 4
T 22	23 25	21 20	2 38	25 1	1 37	14 12	2 34	11 37	0 49	20 54	0 47	21 12	1 38	1 2	0 44	10 4
W23	23 25	23 0	1 31	25 3	1 42	14 32	2 33	11 45	0 50	20 53	0 47	21 12	1 38	1 2	0 44	10 3
T 24	23 24	23 23	0 18	25 4	1 46	14 51	2 33	11 53	0 52	20 52	0 47	21 12	1 38	1 1	0 44	10 3
F 25	23 22	22 22	0s59	25 3	1 49	15 10	2 33	12 2	0 53	20 51	0 47	21 12	1 38	1 1	0 44	10 2
S 26	23 21	19 55	2 13	25 1	1 53	15 29	2 32	12 10	0 54	20 50	0 46	21 11	1 38	1 1	0 44	10 2
S 27	23 18	16 13	3 20	24 57	1 56	15 47	2 32	12 19	0 56	20 50	0 46	21 11	1 38	1 0	0 44	10 2
M28	23 16	11 32	4 15	24 52	1 59	16 6	2 31	12 27	0 57	20 49	0 46	21 11	1 38	1 0	0 44	10 1
T 29	23 13	6 11	4 53	24 45	2 2	16 24	2 30	12 36	0 58	20 48	0 46	21 10	1 37	0 59	0 44	10 1
W30	23 9	0 33	5 13	24 37	2 4	16 41	2 30	12 45	1 0	20 47	0 46	21 10	1 37	0 59	0 44	10 0
T 31	23s 5	5s 4	5s14	24s27	2s 6	16s59	2n29	12n54	1n 1	20n46	0s45	21n10	1s37	0s58	0s44	9s59

Julian Day Number = 2516892.5, Delta T = 143.78 sec
 Ecliptic obliquity = 23°24'56, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°14'26, Lahiri = 26°21'26