



Astrodienst Ephemeris Tables for the year 1878

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 1878

geocentric

JANUARY 1878

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 42 2	10°32'47	9°57	27°50	25°58	12°17	14°37	15°21	29°R 9	4°R49	23°R48	23°R12	24°39	9°12	29°R41	T 1
W 2	6 45 59	11°30'58	22°58	27°R55	26°47	12°37	14°21	15°26	29°R 7	4°R48	23°R47	23°R 4	24°35	9°19	29°R41	W 2
T 3	6 49 56	12°32'10	5°35	27°48	27°34	13°12	14°35	15°30	29° 6	4°48	23°46	22°57	24°32	9°25	29°40	T 3
F 4	6 53 52	13°33'21	18°18	27°30	28°21	13°47	14°49	15°35	29° 4	4°47	23°46	22°51	24°29	9°32	29°40	F 4
S 5	6 57 49	14°34'32	0°38	27° 0	29° 7	14°22	15° 3	15°40	29° 2	4°47	23°45	22°47	24°26	9°39	29°40	S 5
S 6	7 1 45	15°35'43	12°46	26°18	29°52	14°58	15°17	15°44	29° 1	4°47	23°44	22°44	24°23	9°45	29°40	S 6
M 7	7 5 42	16°36'54	24°44	25°25	0°35	15°33	15°31	15°49	28°59	4°46	23°44	22°D44	24°20	9°52	29°39	M 7
T 8	7 9 38	17°38'04	6°35	24°23	1°18	16° 9	15°45	15°54	28°57	4°46	23°43	22°44	24°16	9°59	29°39	T 8
W 9	7 13 35	18°39'14	18°22	23°13	2° 0	16°45	15°59	15°59	28°56	4°46	23°42	22°46	24°13	10° 5	29°D39	W 9
T 10	7 17 31	19°40'23	0°10	21°58	2°40	17°20	16°13	16° 4	28°54	4°46	23°42	22°48	24°10	10°12	29°39	T 10
F 11	7 21 28	20°41'32	12° 3	20°39	3°19	17°56	16°27	16°10	28°52	4°46	23°41	22°49	24° 7	10°18	29°39	F 11
S 12	7 25 25	21°42'40	24° 8	19°19	3°57	18°32	16°41	16°15	28°50	4°45	23°41	22°R50	24° 4	10°25	29°40	S 12
S 13	7 29 21	22°43'47	6°29	18° 2	4°33	19° 8	16°55	16°20	28°48	4°45	23°40	22°49	24° 1	10°32	29°40	S 13
M14	7 33 18	23°44'54	19°10	16°48	5° 9	19°44	17° 9	16°26	28°46	4°45	23°40	22°46	23°57	10°38	29°40	M14
T 15	7 37 14	24°46'00	2°15	15°40	5°42	20°20	17°23	16°31	28°44	4°D45	23°39	22°43	23°54	10°45	29°40	T 15
W16	7 41 11	25°47'05	15°46	14°40	6°14	20°56	17°37	16°37	28°42	4°45	23°39	22°39	23°51	10°52	29°41	W16
T 17	7 45 7	26°48'10	29°44	13°48	6°45	21°33	17°51	16°42	28°40	4°45	23°38	22°35	23°48	10°58	29°41	T 17
F 18	7 49 4	27°49'14	14°5	13° 5	7°14	22° 9	18° 5	16°48	28°38	4°46	23°38	22°31	23°45	11° 5	29°42	F 18
S 19	7 53 0	28°50'17	28°44	12°32	7°41	22°45	18°19	16°53	28°36	4°46	23°37	22°29	23°41	11°12	29°42	S 19
S 20	7 56 57	29°51'19	13°35	12° 8	8° 7	23°22	18°32	16°59	28°33	4°46	23°37	22°27	23°38	11°18	29°43	S 20
M21	8 0 54	0°52'21	28°29	11°53	8°30	23°58	18°46	17° 5	28°31	4°46	23°37	22°D27	23°35	11°25	29°44	M21
T 22	8 4 50	1°53'22	13°19	11°D46	8°52	24°35	19° 0	17°11	28°29	4°46	23°36	22°28	23°32	11°32	29°44	T 22
W23	8 8 47	2°54'22	27°59	11°48	9°12	25°11	19°14	17°17	28°27	4°46	23°36	22°29	23°29	11°38	29°45	W23
T 24	8 12 43	3°55'22	12°23	11°58	9°30	25°48	19°28	17°23	28°24	4°47	23°36	22°31	23°26	11°45	29°46	T 24
F 25	8 16 40	4°56'22	26°29	12°14	9°45	26°25	19°41	17°29	28°22	4°47	23°35	22°31	23°22	11°52	29°47	F 25
S 26	8 20 36	5°57'20	10°16	12°38	9°59	27° 1	19°55	17°35	28°20	4°48	23°35	22°R32	23°19	11°58	29°48	S 26
S 27	8 24 33	6°58'19	23°44	13° 7	10°10	27°38	20° 9	17°41	28°17	4°48	23°35	22°31	23°16	12° 5	29°49	S 27
M28	8 28 29	7°59'16	6°54	13°41	10°20	28°15	20°23	17°48	28°15	4°48	23°35	22°29	23°13	12°12	29°50	M28
T 29	8 32 26	9° 0'13	19°48	14°21	10°27	28°52	20°36	17°54	28°13	4°49	23°35	22°28	23°10	12°18	29°51	T 29
W30	8 36 23	10° 1'10	2°37	15° 5	10°31	29°29	20°50	18° 0	28°10	4°49	23°34	22°26	23° 7	12°25	29°52	W30
T 31	8 40 19	11° 2'05	14°54	15°53	10°R33	0° 6	21°3	18°7	28°8	4°50	23°34	22°24	23° 3	12°32	29°54	T 31

Day	☉	☾		♊		♀		♈		♉		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23s 3	26s50	4s56	20s32	0n 5	13s21	0s30	4n57	0n13	22s49	0s 6	7s39	2s 2	12n30	0n46	11n26	1s48	4n56	14s13	13s48	13s19	6s55	10n55	0s30							
W 2	22 57	27 44	4 28	20 14	0 22	12 57	0 22	5 12	0 14	22 48	0 7	7 37	2 2	12 31	0 46	11 26	1 48	4 57	14 13	13 50	13 20	6 52	10 54	0 30							
T 3	22 52	27 7	3 47	19 57	0 41	12 33	0 15	5 27	0 15	22 46	0 7	7 35	2 2	12 31	0 46	11 26	1 48	4 57	14 12	13 53	13 21	6 49	10 54	0 30							
F 4	22 46	25 7	2 56	19 42	0 59	12 10	0 7	5 42	0 17	22 45	0 7	7 33	2 2	12 32	0 46	11 26	1 48	4 57	14 12	13 55	13 22	6 46	10 54	0 30							
S 5	22 40	21 56	1 57	19 29	1 19	11 46	0n 2	5 57	0 18	22 43	0 7	7 31	2 1	12 32	0 46	11 26	1 48	4 57	14 12	13 56	13 23	6 42	10 54	0 30							
S 6	22 33	17 51	0 54	19 18	1 38	11 22	0 10	6 12	0 19	22 42	0 7	7 29	2 1	12 33	0 46	11 26	1 48	4 57	14 11	13 57	13 24	6 39	10 54	0 30							
M 7	22 25	13 7	0n11	19 10	1 57	10 59	0 19	6 27	0 20	22 40	0 7	7 27	2 1	12 34	0 46	11 26	1 48	4 57	14 11	13 57	13 25	6 36	10 54	0 30							
T 8	22 18	7 57	1 15	19 3	2 15	10 35	0 28	6 41	0 22	22 39	0 7	7 25	2 1	12 34	0 46	11 26	1 48	4 57	14 11	13 57	13 26	6 32	10 53	0 30							
W 9	22 9	2 31	2 16	18 58	2 31	10 11	0 37	6 56	0 23	22 37	0 7	7 23	2 1	12 35	0 46	11 26	1 48	4 57	14 11	13 56	13 27	6 29	10 53	0 30							
T 10	22 1	2n59	3 11	18 56	2 46	9 48	0 47	7 11	0 24	22 36	0 7	7 21	2 1	12 36	0 46	11 26	1 48	4 57	14 10	13 56	13 29	6 26	10 53	0 30							
F 11	21 52	8 25	3 58	18 55	2 59	9 25	0 57	7 26	0 25	22 34	0 7	7 19	2 1	12 36	0 46	11 26	1 48	4 58	14 10	13 55	13 30	6 23	10 53	0 30							
S 12	21 42	13 38	4 35	18 56	3 10	9 2	1 7	7 40	0 26	22 32	0 8	7 17	2 1	12 37	0 46	11 26	1 48	4 58	14 10	13 55	13 31	6 19	10 53	0 30							
S 13	21 32	18 25	5 1	18 59	3 18	8 39	1 17	7 55	0 27	22 31	0 8	7 15	2 0	12 38	0 47	11 26	1 47	4 58	14 10	13 55	13 32	6 16	10 53	0 30							
M14	21 22	22 33	5 13	19 2	3 23	8 17	1 27	8 10	0 29	22 29	0 8	7 12	2 0	12 38	0 47	11 26	1 47	4 58	14 9	13 56	13 33	6 13	10 53	0 30							
T 15	21 11	25 41	5 9	19 7	3 26	7 54	1 38	8 24	0 30	22 27	0 8	7 10	2 0	12 39	0 47	11 26	1 47	4 58	14 9	13 57	13 34	6 9	10 53	0 30							
W16	21 0	27 29	4 49	19 13	3 27	7 32	1 49	8 39	0 31	22 26	0 8	7 8	2 0	12 40	0 47	11 26	1 47	4 58	14 9	13 59	13 35	6 6	10 54	0 30							
T 17	20 49	27 38	4 11	19 20	3 25	7 11	2 0	8 54	0 32	22 24	0 8	7 6	2 0	12 41	0 47	11 26	1 47	4 59	14 8	14 0	13 36	6 3	10 54	0 31							
F 18	20 37	25 57	3 16	19 28	3 22	6 49	2 12	9 8	0 33	22 22	0 8	7 3	2 0	12 41	0 47	11 26	1 47	4 59	14 8	14 1	13 37	6 0	10 54	0 31							
S 19	20 24	22 30	2 7	19 36	3 17	6 28	2 24	9 23	0 34	22 20	0 8	7 1	2 0	12 42	0 47	11 26	1 47	4 59	14 8	14 2	13 38	5 56	10 54	0 31							
S 20	20 12	17 32	0 49	19 45	3 10	6 8	2 36	9 37	0 35	22 19	0 8	6 59	2 0	12 43	0 47	11 26	1 47	4 59	14 8	14 2	13 39	5 53	10 54	0 31							
M21	19 59	11 29	0s33	19 53	3 3	5 48	2 48	9 51	0 36	22 17	0 8	6 56	2 0	12 44	0 47	11 26	1 47	4 59	14 7	14 2	13 40	5 50	10 54	0 31							
T 22	19 45	4 49	1 53	20 2	2 54	5 28	3 0	10 6	0 36	22 15	0 9	6 54	1 59	12 44	0 47	11 27	1 47	5 0	14 7	14 2	13 41	5 46	10 54	0 31							
W23	19 31	2s 1	3 4	20 11	2 45	5 9	3 13	10 20	0 37	22 13	0 9	6 52	1 59	12 45	0 47	11 27	1 47	5 0	14 7	14 2	13 42	5 43	10 55	0 31							
T 24	19 17	8 37	4 2	20 20	2 35	4 50	3 26	10 34	0 38	22 11	0 9	6 49	1 59	12 46	0 47	11 27	1 47	5 0	14 6	14 1	13 43	5 40	10 55	0 31							
F 25	19 3	14 38	4 44	20 29	2 25	4 32	3 39	10 48	0 39	22 9	0 9	6 47	1 59	12 47	0 47	11 27	1 47	5 0	14 6	14 1	13 44	5 36	10 55	0 31							
S 26	18 48	19 48	5 9	20 37	2 15	4 15	3 52	11 3	0 40	22 8	0 9	6 44	1 59	12 48	0 47	11 27	1 47	5 1	14 6	14 1	13 45	5 33	10 56	0 31							
S 27	18 33	23 49	5 16	20 45	2 4	3 58	4 5	11 17	0 41	22 6	0 9	6 42	1 59	12 49	0 47	11 27	1 47	5 1	14 5	14 1	13 46	5 30	10 56	0 31							
M28	18 17	26 31	5 7	20 53	1 53	3 43	4 19	11 31	0 42	22 4	0 9	6 39	1 59	12 49	0 47	11 28	1 47	5 1	14 5	14 2	13 47	5 26	10 56	0 31							
T 29	18 1	27 44	4 41	20 59	1 42	3 17	4 32	11 45	0 43	22 2	0 9	6 37	1 59	12 50	0 47	11 28	1 46	5 1	14 5	14 2	13 48	5 23	10 57	0 31							
W30	17 45	27 29	4 3	21 5	1 32	3 23	4 46	11 58	0 43	22 0	0 9	6 34	1 59	12 51	0 47	11 28	1 46	5 2	14 4	14 3	13 50	5 20	10 57	0 31							
T 31	17s28	25s49	3s13	21s10	1n21	2s59	4n59	12n12	0n44	21s58	0s 9	6s31	1s59	12n52	0n47	11n28	1s46	5n 2	14s 4	14s 3	13s51	5s17	10n57	0s31							

ASTRODIENST EPHEMERIS for the year 1878

geocentric

FEBRUARY 1878

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 44 16	12 ²⁵ 59	27 ³ 10	16 ³ 44	10 ⁰ R33	0 ⁸ 43	21 ³ 17	18 ¹ 13	28 ⁰ R 5	4 ⁸ 50	23 ⁰ R34	22 ⁰ R23	23 ⁰ 0	12 ¹ 38	29 ⁰ V55	F 1
S 2	8 48 12	13 ⁰ 3'52	9 ⁰ 16	17 ⁰ 39	10 ⁰ X30	1 ⁰ 20	21 ⁰ 31	18 ⁰ 20	28 ⁰ Ω 3	4 ⁵ 51	23 ⁰ Ω34	22 ⁰ Ω22	22 ⁰ 57	12 ⁰ 45	29 ⁰ 56	S 2
S 3	8 52 9	14 ⁰ 4'45	21 ⁰ 14	18 ⁰ 38	10 ⁰ 25	1 ⁰ 57	21 ⁰ 44	18 ⁰ 26	28 ⁰ 0	4 ⁵ 52	23 ⁰ 34	22 ⁰ D21	22 ⁰ 54	12 ⁰ 51	29 ⁰ 58	S 3
M 4	8 56 5	15 ⁰ 5'35	3 ⁰ 7	19 ⁰ 39	10 ⁰ 17	2 ⁰ 34	21 ⁰ 57	18 ⁰ 33	27 ⁰ 58	4 ⁵ 52	23 ⁰ 34	22 ⁰ 22	22 ⁰ 51	12 ⁰ 58	29 ⁰ 59	M 4
T 5	9 0 2	16 ⁰ 6'25	14 ⁰ 55	20 ⁰ 42	10 ⁰ 7	3 ⁰ 12	22 ⁰ 11	18 ⁰ 39	27 ⁰ 55	4 ⁵ 53	23 ⁰ 34	22 ⁰ 22	22 ⁰ 47	13 ⁰ 5	0 ⁰ 1	T 5
W 6	9 3 58	17 ⁰ 7'13	26 ⁰ 43	21 ⁰ 48	9 ⁰ 54	3 ⁰ 49	22 ⁰ 24	18 ⁰ 46	27 ⁰ 53	4 ⁵ 54	23 ⁰ D34	22 ⁰ 23	22 ⁰ 44	13 ⁰ 11	0 ⁰ 2	W 6
T 7	9 7 55	18 ⁰ 8'00	8 ⁰ V32	22 ⁰ 56	9 ⁰ 39	4 ⁰ 26	22 ⁰ 38	18 ⁰ 53	27 ⁰ 50	4 ⁵ 55	23 ⁰ 34	22 ⁰ 23	22 ⁰ 41	13 ⁰ 18	0 ⁰ 4	T 7
F 8	9 11 52	19 ⁰ 8'45	20 ⁰ 26	24 ⁰ 6	9 ⁰ 21	5 ⁰ 3	22 ⁰ 51	18 ⁰ 59	27 ⁰ 47	4 ⁵ 55	23 ⁰ 34	22 ⁰ 24	22 ⁰ 38	13 ⁰ 25	0 ⁰ 6	F 8
S 9	9 15 48	20 ⁰ 9'28	2 ⁰ 30	25 ⁰ 18	9 ⁰ 1	5 ⁰ 41	23 ⁰ 4	19 ⁰ 6	27 ⁰ 45	4 ⁵ 56	23 ⁰ 34	22 ⁰ 24	22 ⁰ 35	13 ⁰ 31	0 ⁰ 7	S 9
S 10	9 19 45	21 ⁰ 10'11	14 ⁰ 48	26 ⁰ 32	8 ⁰ 39	6 ⁰ 18	23 ⁰ 17	19 ⁰ 13	27 ⁰ 42	4 ⁵ 57	23 ⁰ 34	22 ⁰ 24	22 ⁰ 32	13 ⁰ 38	0 ⁰ 9	S 10
M 11	9 23 41	22 ⁰ 10'51	27 ⁰ 24	27 ⁰ 48	8 ⁰ 14	6 ⁰ 56	23 ⁰ 30	19 ⁰ 20	27 ⁰ 40	4 ⁵ 58	23 ⁰ 34	22 ⁰ 24	22 ⁰ 28	13 ⁰ 45	0 ⁰ 11	M 11
T 12	9 27 38	23 ⁰ 11'30	10 ⁰ 22	29 ⁰ 4	7 ⁰ 47	7 ⁰ 33	23 ⁰ 44	19 ⁰ 27	27 ⁰ 37	4 ⁵ 59	23 ⁰ 34	22 ⁰ 24	22 ⁰ 25	13 ⁰ 51	0 ⁰ 13	T 12
W 13	9 31 34	24 ⁰ 12'07	23 ⁰ 45	0 ⁰ 23	7 ⁰ 18	8 ⁰ 10	23 ⁰ 57	19 ⁰ 34	27 ⁰ 34	5 ⁰ 0	23 ⁰ 34	22 ⁰ 24	22 ⁰ 22	13 ⁰ 58	0 ⁰ 15	W 13
T 14	9 35 31	25 ⁰ 12'42	7 ⁰ 36	1 ⁰ 43	6 ⁰ 48	8 ⁰ 48	24 ⁰ 10	19 ⁰ 41	27 ⁰ 32	5 ⁰ 1	23 ⁰ 35	22 ⁰ 24	22 ⁰ 19	14 ⁰ 5	0 ⁰ 17	T 14
F 15	9 39 28	26 ⁰ 13'16	21 ⁰ 54	3 ⁰ 4	6 ⁰ 15	9 ⁰ 25	24 ⁰ 23	19 ⁰ 48	27 ⁰ 29	5 ⁰ 2	23 ⁰ 35	22 ⁰ 25	22 ⁰ 16	14 ⁰ 11	0 ⁰ 19	F 15
S 16	9 43 24	27 ⁰ 13'48	6 ⁰ Ω35	4 ⁰ 26	5 ⁰ 42	10 ⁰ 3	24 ⁰ 36	19 ⁰ 55	27 ⁰ 26	5 ⁰ 3	23 ⁰ 35	22 ⁰ 25	22 ⁰ 13	14 ⁰ 18	0 ⁰ 21	S 16
S 17	9 47 21	28 ⁰ 14'18	21 ⁰ 35	5 ⁰ 50	5 ⁰ 7	10 ⁰ 41	24 ⁰ 48	20 ⁰ 2	27 ⁰ 24	5 ⁰ 4	23 ⁰ 35	22 ⁰ R25	22 ⁰ 9	14 ⁰ 25	0 ⁰ 23	S 17
M 18	9 51 17	29 ⁰ 14'47	6 ⁰ Ω46	7 ⁰ 15	4 ⁰ 31	11 ⁰ 18	25 ⁰ 1	20 ⁰ 9	27 ⁰ 21	5 ⁰ 5	23 ⁰ 35	22 ⁰ 25	22 ⁰ 6	14 ⁰ 31	0 ⁰ 26	M 18
T 19	9 55 14	0 ⁰ 15'14	21 ⁰ 57	8 ⁰ 41	3 ⁰ 54	11 ⁰ 56	25 ⁰ 14	20 ⁰ 16	27 ⁰ 18	5 ⁰ 7	23 ⁰ 36	22 ⁰ 25	22 ⁰ 3	14 ⁰ 38	0 ⁰ 28	T 19
W 20	9 59 10	1 ⁰ 15'39	7 ⁰ Δ 0	10 ⁰ 8	3 ⁰ 16	12 ⁰ 33	25 ⁰ 27	20 ⁰ 23	27 ⁰ 16	5 ⁰ 8	23 ⁰ 36	22 ⁰ 24	22 ⁰ 0	14 ⁰ 45	0 ⁰ 30	W 20
T 21	10 3 7	2 ⁰ 16'03	21 ⁰ 46	11 ⁰ 36	2 ⁰ 39	13 ⁰ 11	25 ⁰ 39	20 ⁰ 30	27 ⁰ 13	5 ⁰ 9	23 ⁰ 36	22 ⁰ 22	22 ⁰ 57	14 ⁰ 51	0 ⁰ 33	T 21
F 22	10 7 3	3 ⁰ 16'26	6 ⁰ Ω 9	13 ⁰ 5	2 ⁰ 1	13 ⁰ 48	25 ⁰ 52	20 ⁰ 37	27 ⁰ 11	5 ⁰ 10	23 ⁰ 37	22 ⁰ 21	21 ⁰ 53	14 ⁰ 58	0 ⁰ 35	F 22
S 23	10 11 0	4 ⁰ 16'48	20 ⁰ 7	14 ⁰ 35	1 ⁰ 24	14 ⁰ 26	26 ⁰ 4	20 ⁰ 45	27 ⁰ 8	5 ⁰ 11	23 ⁰ 37	22 ⁰ 20	21 ⁰ 50	15 ⁰ 5	0 ⁰ 37	S 23
S 24	10 14 56	5 ⁰ 17'08	3 ⁰ Δ38	16 ⁰ 7	0 ⁰ 47	15 ⁰ 4	26 ⁰ 17	20 ⁰ 52	27 ⁰ 5	5 ⁰ 13	23 ⁰ 37	22 ⁰ D20	21 ⁰ 47	15 ⁰ 11	0 ⁰ 40	S 24
M 25	10 18 53	6 ⁰ 17'26	16 ⁰ 46	17 ⁰ 39	0 ⁰ 11	15 ⁰ 41	26 ⁰ 29	20 ⁰ 59	27 ⁰ 3	5 ⁰ 14	23 ⁰ 38	22 ⁰ 20	21 ⁰ 44	15 ⁰ 18	0 ⁰ 42	M 25
T 26	10 22 50	7 ⁰ 17'43	29 ⁰ 32	19 ⁰ 13	29 ⁰ 36	16 ⁰ 19	26 ⁰ 41	21 ⁰ 6	27 ⁰ 0	5 ⁰ 15	23 ⁰ 38	22 ⁰ 21	21 ⁰ 41	15 ⁰ 25	0 ⁰ 45	T 26
W 27	10 26 46	8 ⁰ 17'59	12 ⁰ 3 0	20 ⁰ 47	29 ⁰ 2	16 ⁰ 57	26 ⁰ 53	21 ⁰ 14	26 ⁰ 58	5 ⁰ 17	23 ⁰ 39	22 ⁰ 22	21 ⁰ 38	15 ⁰ 31	0 ⁰ 48	W 27
T 28	10 30 43	9 ⁰ 18'13	24 ⁰ 313	22 ⁰ 23	28 ⁰ 30	17 ⁰ 35	27 ⁰ 3 6	21 ⁰ 121	26 ⁰ Ω55	5 ⁰ 18	23 ⁰ 39	22 ⁰ 24	21 ⁰ 34	15 ⁰ 38	0 ⁰ 50	T 28

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	decl lat	
F 1	17s12	22s57	2s15	21s15	1n10	2s47	5n13	12n26	0n45	21s56	0s10	6s29	1s59	12n53	0n47	F 1
S 2	16 54	19 6	1 12	21 18	1 0	2 35	5 27	12 40	0 46	21 54	0 10	6 26	1 59	12 54	0 47	S 2
S 3	16 37	14 32	0 6	21 21	0 49	2 24	5 41	12 53	0 46	21 52	0 10	6 24	1 58	12 55	0 47	S 3
M 4	16 19	9 27	0n59	21 22	0 39	2 15	5 54	13 7	0 47	21 50	0 10	6 21	1 58	12 56	0 47	M 4
T 5	16 1	4 4	2 2	21 23	0 29	2 6	6 8	13 20	0 48	21 48	0 10	6 18	1 58	12 56	0 47	T 5
W 6	15 43	1n26	3 0	21 22	0 20	1 58	6 21	13 34	0 49	21 46	0 10	6 16	1 58	12 57	0 47	W 6
T 7	15 24	6 54	3 50	21 20	0 10	1 52	6 34	13 47	0 49	21 43	0 10	6 13	1 58	12 58	0 47	T 7
F 8	15 6	12 9	4 30	21 18	0 1	1 47	6 47	14 0	0 50	21 41	0 10	6 10	1 58	12 59	0 47	F 8
S 9	14 47	17 2	4 59	21 13	0s 8	1 43	6 59	14 13	0 51	21 39	0 10	6 8	1 58	13 0	0 47	S 9
S 10	14 27	21 18	5 15	21 8	0 17	1 40	7 11	14 26	0 51	21 37	0 11	6 5	1 58	13 1	0 47	S 10
M 11	14 8	24 44	5 17	21 2	0 25	1 38	7 23	14 39	0 52	21 35	0 11	6 2	1 58	13 2	0 47	M 11
T 12	13 48	27 0	5 3	20 54	0 33	1 38	7 34	14 52	0 53	21 33	0 11	5 59	1 58	13 3	0 47	T 12
W 13	13 28	27 50	4 32	20 45	0 41	1 39	7 44	15 5	0 53	21 31	0 11	5 57	1 58	13 4	0 47	W 13
T 14	13 8	26 58	3 44	20 35	0 49	1 41	7 54	15 18	0 54	21 29	0 11	5 54	1 58	13 5	0 47	T 14
F 15	12 47	24 20	2 42	20 24	0 56	1 44	8 3	15 30	0 55	21 26	0 11	5 51	1 58	13 6	0 47	F 15
S 16	12 27	20 3	1 27	20 11	1 3	1 48	8 11	15 43	0 55	21 24	0 11	5 48	1 58	13 6	0 47	S 16
S 17	12 6	14 23	0 5	19 57	1 10	1 54	8 19	15 55	0 56	21 22	0 11	5 45	1 58	13 7	0 47	S 17
M 18	11 45	7 49	1s19	19 42	1 16	2 1	8 25	16 7	0 56	21 20	0 11	5 43	1 58	13 8	0 47	M 18
T 19	11 23	0 47	2 37	19 26	1 22	2 9	8 31	16 20	0 57	21 18	0 12	5 40	1 58	13 9	0 47	T 19
W 20	11 2	6s12	3 43	19 8	1 28	2 17	8 36	16 32	0 57	21 16	0 12	5 37	1 58	13 10	0 47	W 20
T 21	10 41	12 42	4 33	18 49	1 33	2 27	8 39	16 44	0 58	21 13	0 12	5 34	1 58	13 11	0 47	T 21
F 22	10 19	18 22	5 5	18 29	1 39	2 38	8 42	16 55	0 58	21 11	0 12	5 31	1 58	13 12	0 47	F 22
S 23	9 57	22 52	5 17	18 7	1 43	2 49	8 44	17 7	0 59	21 9	0 12	5 28	1 58	13 13	0 47	S 23
S 24	9 35	25 59	5 11	17 44	1 48	3 1	8 45	17 19	0 59	21 7	0 12	5 25	1 58	13 14	0 47	S 24
M 25	9 13	27 35	4 49	17 20	1 52	3 13	8 45	17 30	1 0	21 4	0 12	5 23	1 58	13 15	0 47	M 25
T 26	8 50	27 40	4 13	16 54	1 55	3 26	8 43	17 42	1 0	21 2	0 12	5 20	1 58	13 15	0 47	T 26
W 27	8 28	26 20	3 26	16 27	1 59	3 40	8 41	17 53	1 1	21 0	0 13	5 17	1 58	13 16	0 47	W 27
T 28	8s 5	23s45	2s30	15s59	2s 2	3s53	8n38	18n 4	1n 1	20s58	0s13	5s14	1s58	13n17	0n47	T 28

Julian Day Number = 2407016.5, Delta T = -2.49 sec
 Ecliptic obliquity = 23°27'26", Nutation = 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 23°02'16", Lahiri = 22°09'16"

ASTRODIENST EPHEMERIS for the year 1878

geocentric

MARCH 1878

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 34 39	10 ^h 18'26"	6 ^h 16'	23 ^h 59'	27 ^h 59'	18 ^h 12'	27 ^h 18'	21 ^h 28'	26 ^h 53'	5 ^h 20'	23 ^h 39'	22 ^h 25'	21 ^h 31'	15 ^h 45'	0 ^h 53'	F 1
S 2	10 38 36	11 ^h 18'36"	18 ^h 11'	25 ^h 37'	27 ^h 31'	18 ^h 50'	27 ^h 30'	21 ^h 36'	26 ^h 50'	5 ^h 21'	23 ^h 40'	22 ^h 26'	21 ^h 28'	15 ^h 51'	0 ^h 56'	S 2
S 3	10 42 32	12 ^h 18'45"	0 ^h 2	27 ^h 15'	27 ^h 4	19 ^h 28'	27 ^h 42'	21 ^h 43'	26 ^h 47'	5 ^h 23'	23 ^h 40'	22 ^h 26'	21 ^h 25'	15 ^h 58'	0 ^h 59'	S 3
M 4	10 46 29	13 ^h 18'53"	11 ^h 50'	28 ^h 55'	26 ^h 39'	20 ^h 6	27 ^h 53'	21 ^h 50'	26 ^h 45'	5 ^h 24'	23 ^h 41'	22 ^h 25'	21 ^h 22'	16 ^h 5	1 ^h 1	M 4
T 5	10 50 25	14 ^h 18'58"	23 ^h 38'	0 ^h 36'	26 ^h 16'	20 ^h 43'	28 ^h 5	21 ^h 58'	26 ^h 43'	5 ^h 26'	23 ^h 42'	22 ^h 22'	21 ^h 18'	16 ^h 11'	1 ^h 4	T 5
W 6	10 54 22	15 ^h 19'01"	5 ^h 28'	2 ^h 18'	25 ^h 56'	21 ^h 21'	28 ^h 17'	22 ^h 5	26 ^h 40'	5 ^h 27'	23 ^h 42'	22 ^h 19'	21 ^h 15'	16 ^h 18'	1 ^h 7	W 6
T 7	10 58 19	16 ^h 19'03"	17 ^h 21'	4 ^h 1	25 ^h 37'	21 ^h 59'	28 ^h 28'	22 ^h 12'	26 ^h 38'	5 ^h 29'	23 ^h 43'	22 ^h 15'	21 ^h 12'	16 ^h 24'	1 ^h 10	T 7
F 8	11 2 15	17 ^h 19'02"	29 ^h 21'	5 ^h 45'	25 ^h 22'	22 ^h 37'	28 ^h 40'	22 ^h 20'	26 ^h 35'	5 ^h 31'	23 ^h 43'	22 ^h 10'	21 ^h 9	16 ^h 31'	1 ^h 13	F 8
S 9	11 6 12	18 ^h 18'59"	11 ^h 30'	7 ^h 30'	25 ^h 8	23 ^h 15'	28 ^h 51'	22 ^h 27'	26 ^h 33'	5 ^h 32'	23 ^h 44'	22 ^h 6	21 ^h 6	16 ^h 38'	1 ^h 16	S 9
S 10	11 10 8	19 ^h 18'55"	23 ^h 49'	9 ^h 17'	24 ^h 58'	23 ^h 53'	29 ^h 3	22 ^h 35'	26 ^h 30'	5 ^h 34'	23 ^h 45'	22 ^h 3	21 ^h 3	16 ^h 44'	1 ^h 19	S 10
M 11	11 14 5	20 ^h 18'48"	6 ^h 24'	11 ^h 5	24 ^h 49'	24 ^h 30'	29 ^h 14'	22 ^h 42'	26 ^h 28'	5 ^h 36'	23 ^h 45'	22 ^h 1	20 ^h 59'	16 ^h 51'	1 ^h 22	M 11
T 12	11 18 1	21 ^h 18'39"	19 ^h 17'	12 ^h 53'	24 ^h 43'	25 ^h 8	29 ^h 25'	22 ^h 49'	26 ^h 26'	5 ^h 37'	23 ^h 46'	22 ^h 0	20 ^h 56'	16 ^h 58'	1 ^h 26	T 12
W 13	11 21 58	22 ^h 18'27"	2 ^h 32'	14 ^h 43'	24 ^h 40'	25 ^h 46'	29 ^h 36'	22 ^h 57'	26 ^h 23'	5 ^h 39'	23 ^h 47'	22 ^h 0	20 ^h 53'	17 ^h 4	1 ^h 29	W 13
T 14	11 25 54	23 ^h 18'14"	16 ^h 10'	16 ^h 34'	24 ^h D39	26 ^h 24'	29 ^h 47'	23 ^h 4	26 ^h 21'	5 ^h 41'	23 ^h 47'	22 ^h 1	20 ^h 50'	17 ^h 11'	1 ^h 32	T 14
F 15	11 29 51	24 ^h 17'58"	0 ^h 15'	18 ^h 27'	24 ^h 40'	27 ^h 2	29 ^h 58'	23 ^h 12'	26 ^h 19'	5 ^h 43'	23 ^h 48'	22 ^h 3	20 ^h 47'	17 ^h 18'	1 ^h 35	F 15
S 16	11 33 48	25 ^h 17'40"	14 ^h 44'	20 ^h 20'	24 ^h 44'	27 ^h 40'	0 ^h 9	23 ^h 19'	26 ^h 17'	5 ^h 44'	23 ^h 49'	22 ^h R 4	20 ^h 44'	17 ^h 24'	1 ^h 38	S 16
S 17	11 37 44	26 ^h 17'19"	29 ^h 36'	22 ^h 15'	24 ^h 50'	28 ^h 18'	0 ^h 19'	23 ^h 27'	26 ^h 15'	5 ^h 46'	23 ^h 50'	22 ^h 4	20 ^h 40'	17 ^h 31'	1 ^h 42	S 17
M 18	11 41 41	27 ^h 16'56"	14 ^h 44'	24 ^h 10'	24 ^h 58'	28 ^h 56'	0 ^h 30'	23 ^h 34'	26 ^h 12'	5 ^h 48'	23 ^h 51'	22 ^h 2	20 ^h 37'	17 ^h 38'	1 ^h 45	M 18
T 19	11 45 37	28 ^h 16'31"	29 ^h 59'	26 ^h 7	25 ^h 8	29 ^h 33'	0 ^h 40'	23 ^h 41'	26 ^h 10'	5 ^h 50'	23 ^h 51'	21 ^h 59'	20 ^h 34'	17 ^h 44'	1 ^h 48	T 19
W 20	11 49 34	29 ^h 16'05"	15 ^h 12'	28 ^h 5	25 ^h 21'	0 ^h 11	0 ^h 51'	23 ^h 49'	26 ^h 8	5 ^h 52'	23 ^h 52'	21 ^h 54'	20 ^h 31'	17 ^h 51'	1 ^h 52	W 20
T 21	11 53 30	0 ^h 15'36"	0 ^h 11'	0 ^h 4	25 ^h 36'	0 ^h 49'	1 ^h 1	23 ^h 56'	26 ^h 6	5 ^h 54'	23 ^h 53'	21 ^h 48'	20 ^h 28'	17 ^h 58'	1 ^h 55	T 21
F 22	11 57 27	1 ^h 15'05"	14 ^h 49'	2 ^h 4	25 ^h 52'	1 ^h 27'	1 ^h 11'	24 ^h 4	26 ^h 4	5 ^h 56'	23 ^h 54'	21 ^h 43'	20 ^h 24'	18 ^h 4	1 ^h 59	F 22
S 23	12 1 23	2 ^h 14'33"	29 ^h 0	4 ^h 5	26 ^h 11'	2 ^h 5	1 ^h 21'	24 ^h 11'	26 ^h 2	5 ^h 58'	23 ^h 55'	21 ^h 38'	20 ^h 21'	18 ^h 11'	2 ^h 2	S 23
S 24	12 5 20	3 ^h 13'59"	12 ^h 42'	6 ^h 6	26 ^h 32'	2 ^h 43'	1 ^h 31'	24 ^h 18'	26 ^h 0	5 ^h 59'	23 ^h 56'	21 ^h 34'	20 ^h 18'	18 ^h 18'	2 ^h 5	S 24
M 25	12 9 17	4 ^h 13'23"	25 ^h 55'	8 ^h 8	26 ^h 54'	3 ^h 21'	1 ^h 41'	24 ^h 26'	25 ^h 58'	6 ^h 1	23 ^h 57'	21 ^h 32'	20 ^h 15'	18 ^h 24'	2 ^h 9	M 25
T 26	12 13 13	5 ^h 12'46"	8 ^h 42'	10 ^h 10'	27 ^h 18'	3 ^h 59'	1 ^h 51'	24 ^h 33'	25 ^h 56'	6 ^h 3	23 ^h 58'	21 ^h D32	20 ^h 12'	18 ^h 31'	2 ^h 13	T 26
W 27	12 17 10	6 ^h 12'06"	21 ^h 7	12 ^h 13'	27 ^h 44'	4 ^h 36'	2 ^h 1	24 ^h 40'	25 ^h 55'	6 ^h 5	23 ^h 59'	21 ^h 32'	20 ^h 9	18 ^h 38'	2 ^h 16	W 27
T 28	12 21 6	7 ^h 11'25"	3 ^h 16'	14 ^h 15'	28 ^h 12'	5 ^h 14'	2 ^h 10'	24 ^h 48'	25 ^h 53'	6 ^h 7	24 ^h 0	21 ^h 34'	20 ^h 5	18 ^h 44'	2 ^h 20	T 28
F 29	12 25 3	8 ^h 10'42"	15 ^h 13'	16 ^h 17'	28 ^h 41'	5 ^h 52'	2 ^h 19'	24 ^h 55'	25 ^h 51'	6 ^h 10'	24 ^h 0	21 ^h 35'	20 ^h 2	18 ^h 51'	2 ^h 23	F 29
S 30	12 28 59	9 ^h 9'57"	27 ^h 3	18 ^h 18'	29 ^h 12'	6 ^h 30'	2 ^h 29'	25 ^h 2	25 ^h 49'	6 ^h 12'	24 ^h 1	21 ^h R35	19 ^h 59'	18 ^h 58'	2 ^h 27	S 30
S 31	12 32 56	10 ^h 9'11"	8 ^h 50'	20 ^h 19'	29 ^h 44'	7 ^h 11'	2 ^h 38'	25 ^h 10'	25 ^h 48'	6 ^h 14'	24 ^h 2	21 ^h 33'	19 ^h 56'	19 ^h 4	2 ^h 31	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	7s43	20s 9	1s28	15s29	2s 4	4s 7	8n35	18n15	1n 2	20s56	0s13	5s11	1s58	13n18	0n47	11n40	1s45	5n12	13s55	14s 3	14s20	3s41	11n17	0s33					
S 2	7 20	15 46	0 23	14 58	2 6	4 21	8 30	18 26	1 2	20 53	0 13	5 8	1 58	13 19	0 47	11 40	1 45	5 12	13 55	14 3	14 21	3 37	11 18	0 33					
S 3	6 57	10 49	0n42	14 26	2 8	4 35	8 24	18 37	1 3	20 51	0 13	5 5	1 58	13 20	0 47	11 41	1 45	5 13	13 54	14 3	14 23	3 34	11 19	0 33					
M 4	6 34	5 31	1 45	13 53	2 9	4 49	8 18	18 48	1 3	20 49	0 13	5 2	1 58	13 21	0 47	11 41	1 45	5 13	13 54	14 3	14 24	3 31	11 19	0 33					
T 5	6 11	0 1	2 44	13 18	2 10	5 3	8 12	18 58	1 3	20 47	0 13	4 59	1 58	13 21	0 47	11 42	1 45	5 14	13 54	14 4	14 25	3 27	11 20	0 33					
W 6	5 47	5n28	3 35	12 42	2 11	5 17	8 4	19 8	1 4	20 44	0 13	4 57	1 58	13 22	0 47	11 42	1 45	5 14	13 53	14 5	14 26	3 24	11 21	0 33					
T 7	5 24	10 47	4 18	12 4	2 11	5 30	7 56	19 19	1 4	20 42	0 14	4 54	1 58	13 23	0 47	11 43	1 44	5 14	13 53	14 6	14 27	3 21	11 22	0 33					
F 8	5 1	15 45	4 49	11 26	2 11	5 43	7 48	19 29	1 5	20 40	0 14	4 51	1 58	13 24	0 47	11 44	1 44	5 15	13 53	14 8	14 28	3 17	11 23	0 33					
S 9	4 37	20 10	5 8	10 46	2 10	5 56	7 39	19 39	1 5	20 38	0 14	4 48	1 58	13 25	0 47	11 44	1 44	5 15	13 53	14 9	14 29	3 14	11 24	0 33					
S 10	4 14	23 48	5 14	10 5	2 8	6 9	7 29	19 49	1 5	20 36	0 14	4 45	1 58	13 26	0 47	11 45	1 44	5 16	13 52	14 10	14 30	3 11	11 25	0 33					
M11	3 50	26 23	5 4	9 22	2 7	6 21	7 20	19 58	1 6	20 33	0 14	4 42	1 58	13 26	0 47	11 45	1 44	5 16	13 52	14 11	14 31	3 7	11 26	0 33					
T 12	3 27	27 40	4 39	8 38	2 4	6 32	7 10	20 8	1 6	20 31	0 14	4 39	1 58	13 27	0 47	11 46	1 44	5 17	13 52	14 11	14 32	3 4	11 27	0 33					
W13	3 3	27 25	3 59	7 53	2 2	6 43	6 59	20 18	1 7	20 29	0 14	4 36	1 58	13 28	0 47	11 47	1 44	5 17	13 51	14 11	14 33	3 1	11 28	0 33					
T 14	2 40	25 31	3 4	7 7	1 58	6 53	6 49	20 27	1 7	20 27	0 14	4 33	1 58	13 29	0 47	11 47	1 44	5 18	13 51	14 11	14 34	2 57	11 30	0 33					
F 15	2 16	22 1	1 57	6 20	1 55	7 3	6 38	20 36	1 7	20 25	0 15	4 30	1 58	13 29	0 47	11 48	1 44	5 18	13 51	14 10	14 35	2 54	11 31	0 34					
S 16	1 52	17 4	0 40	5 31	1 50	7 12	6 27	20 45	1 8	20 22	0 15	4 27	1 58	13 30	0 47	11 48	1 44	5 18	13 51	14 10	14 36	2 51	11 32	0 34					
S 17	1 29	10 59	0s41	4 42	1 46	7 20	6 16	20 54	1 8	20 20	0 15	4 25	1 58	13 31	0 47	11 49	1 44	5 19	13 50	14 10	14 37	2 47	11 33	0 34					
M18	1 5	4 10	2 1	3 51	1 40	7 28	6 5	21 3	1 8	20 18	0 15	4 22	1 58	13 32	0 47	11 50	1 44	5 19	13 50	14 10	14 38	2 44	11 34	0 34					
T 19	0 41	2s56	3 12	2 59	1 34	7 35	5 54	21 11	1 8	20 16	0 15	4 19	1 58	13 32	0 47	11 50	1 44	5 20	13 50	14 11	14 39	2 41	11 35	0 34					
W20	0 17	9 49	4 10	2 6	1 28	7 42	5 43	21 20	1 9	20 14	0 15	4 16	1 58	13 33	0 47	11 51	1 44	5 20	13 49	14 13	14 40	2 38	11 36	0 34					
T 21	0n 6	16 3	4 49	1 13	1 21	7 47	5 31	21 28	1 9	20 12	0 15	4 13	1 58	13 34	0 47	11 52	1 44	5 21	13 49	14 15	14 41	2 34	11 37	0 34					
F 22	0 30	21 12	5 8	0 18	1 14	7 53	5 20	21 36	1 9	20 10	0 16	4 10	1 58	13 34	0 47	11 52	1 44	5 21	13 49	14 17	14 42	2 31	11 38	0 34					
S 23	0 54	24 57	5 8	0n37	1 6	7 57	5 9	21 44	1 10	20 8	0 16	4 7	1 58	13 35	0 47	11 53	1 44	5 22	13 49	14 18	14 43	2 28	11 39	0 34					
S 24	1 17	27 8	4 50	1 33	0 57	8 0	4 58	21 52	1 10	20 6	0 16	4 4	1 58	13 36	0 47	11 54	1 44	5 22	13 48	14 20	14 44	2 24	11 41	0 34					
M25	1 41	27 40	4 17	2 29	0 48	8 3	4 47	21 59	1 10	20 4	0 16	4 2	1 58	13 36	0 47	11 54	1 44	5 22	13 48	14 20	14 45	2 21	11 42	0 34					
T 26	2 4	26 41	3 32	3 26	0 39	8 6	4 36	22 7	1 10	20 2	0 16	3 59	1 58	13 37	0 47	11 55	1 44	5 23	13 48	14 20	14 46	2 18	11 43	0 34					
W27	2 28	24 24	2 38	4 23	0 29	8 7	4 25	22 14	1 11	19 59	0 16	3 56	1 58	13 37	0 47	11 56	1 44	5 23	13 48	14 20	14 47	2 14	11 44	0 34					
T 28	2 51	21 1	1 38	5 21	0 18	8 8	4 14	22 21	1 11	19 57	0 16	3 53	1 59	13 38	0 47	11 56	1 44	5 24	13 47	14 20	14 48	2 11	11 45	0 34					
F 29	3 15	16 50	0 34	6 18	0 8	8 8	4 4	22 28	1 11	19 56	0 17	3 50	1 59	13 39	0 47	11 57	1 44	5 24	13 47	14 19	14 49	2 8	11 46	0 34					
S 30	3 38	12 2	0n30	7 14	0n 3	8 7	3 53	22 35	1 11	19 54	0 17	3 47	1 59	13 39	0 47	11 58	1 44	5 25	13 47	14 19	14 50	2 4	11 48	0 34					
S 31	4n 1	6s51	1n32	8n10	0n15	8s 6	3n42	22n42	1n12	19s52	0s17	3s45	1s59	13n40	0n47	11n59	1s44	5n25	13s47	14s20	14s51	2s 1	11n49	0s35					

ASTRODIENST EPHEMERIS for the year 1878

geocentric

APRIL 1878

00:00 UT

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

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	4n25	1s25	2n30	9n 6	0n26	8s 4	3n32	22n48	1n12	19s50	0s17	3s42	1s59	13n40	0n47	11n59
T 2	4 48	4n 4	3 22	10 0	0 38	8 2	3 22	22 54	1 12	19 48	0 17	3 39	1 59	13 41	0 46	12 0
W 3	5 11	9 26	4 5	10 53	0 49	7 58	3 12	23 1	1 12	19 46	0 17	3 36	1 59	13 41	0 46	12 1
T 4	5 34	14 31	4 38	11 45	1 1	7 54	3 2	23 7	1 12	19 44	0 17	3 33	1 59	13 42	0 46	12 1
F 5	5 57	19 4	4 58	12 35	1 12	7 50	2 52	23 12	1 13	19 42	0 18	3 31	1 59	13 42	0 46	12 2
S 6	6 19	22 54	5 5	13 23	1 24	7 45	2 42	23 18	1 13	19 40	0 18	3 28	1 59	13 43	0 46	12 3
S 7	6 42	25 43	4 58	14 9	1 35	7 39	2 33	23 23	1 13	19 39	0 18	3 25	1 59	13 43	0 46	12 4
M 8	7 5	27 18	4 36	14 52	1 45	7 32	2 24	23 29	1 13	19 37	0 18	3 22	2 0	13 43	0 46	12 4
T 9	7 27	27 26	3 59	15 34	1 55	7 25	2 14	23 34	1 13	19 35	0 18	3 20	2 0	13 44	0 46	12 5
W10	7 49	26 2	3 9	16 13	2 5	7 18	2 5	23 39	1 13	19 34	0 18	3 17	2 0	13 44	0 46	12 6
T 11	8 11	23 6	2 8	16 49	2 14	7 10	1 56	23 44	1 14	19 32	0 19	3 14	2 0	13 45	0 46	12 6
F 12	8 33	18 46	0 57	17 23	2 22	7 1	1 48	23 48	1 14	19 30	0 19	3 12	2 0	13 45	0 46	12 7
S 13	8 55	13 17	0s18	17 53	2 29	6 52	1 39	23 53	1 14	19 29	0 19	3 9	2 0	13 45	0 46	12 8
S 14	9 17	6 57	1 35	18 22	2 36	6 42	1 31	23 57	1 14	19 27	0 19	3 6	2 0	13 46	0 46	12 9
M15	9 39	0 8	2 46	18 47	2 41	6 31	1 22	24 1	1 14	19 25	0 19	3 4	2 0	13 46	0 46	12 9
T 16	10 0	6s45	3 46	19 9	2 46	6 20	1 14	24 5	1 14	19 24	0 19	3 1	2 0	13 46	0 46	12 10
W17	10 21	13 16	4 31	19 29	2 50	6 9	1 6	24 8	1 15	19 22	0 20	2 59	2 1	13 46	0 46	12 11
T 18	10 42	18 57	4 57	19 45	2 53	5 57	0 59	24 12	1 15	19 21	0 20	2 56	2 1	13 47	0 46	12 12
F 19	11 3	23 23	5 2	19 59	2 54	5 44	0 51	24 15	1 15	19 20	0 20	2 53	2 1	13 47	0 46	12 12
S 20	11 24	26 16	4 49	20 10	2 55	5 31	0 44	24 18	1 15	19 18	0 20	2 51	2 1	13 47	0 46	12 13
S 21	11 44	27 27	4 18	20 18	2 54	5 18	0 36	24 21	1 15	19 17	0 20	2 48	2 1	13 47	0 46	12 14
M22	12 5	26 58	3 35	20 23	2 52	5 4	0 29	24 24	1 15	19 16	0 20	2 46	2 1	13 47	0 46	12 15
T 23	12 25	25 2	2 42	20 25	2 49	4 50	0 22	24 27	1 15	19 14	0 21	2 43	2 1	13 48	0 46	12 15
W24	12 45	21 55	1 42	20 25	2 44	4 35	0 15	24 29	1 15	19 13	0 21	2 41	2 2	13 48	0 46	12 16
T 25	13 5	17 54	0 40	20 21	2 38	4 20	0 9	24 31	1 15	19 12	0 21	2 39	2 2	13 48	0 46	12 17
F 26	13 24	13 14	0n24	20 15	2 31	4 4	0 2	24 33	1 15	19 11	0 21	2 36	2 2	13 48	0 46	12 18
S 27	13 43	8 9	1 25	20 6	2 23	3 48	0s 4	24 35	1 16	19 10	0 21	2 34	2 2	13 48	0 46	12 18
S 28	14 3	2 48	2 23	19 55	2 13	3 32	0 10	24 37	1 16	19 8	0 22	2 31	2 2	13 48	0 46	12 19
M29	14 21	2n39	3 15	19 40	2 2	3 15	0 16	24 38	1 16	19 7	0 22	2 29	2 2	13 48	0 46	12 20
T 30	14n40	8n 2	3n58	19n24	1n50	2s58	0s22	24n40	1n16	19s 6	0s22	2s27	2s 2	13n48	0n46	12n20

Julian Day Number = 2407075.5, Delta T = -2.55 sec

Ecliptic obliquity = 23°27'26", Nutation = 0°00'11", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 23°02'24", Lahiri = 22°09'25"

ASTRODIENST EPHEMERIS for the year 1878

geocentric

MAY 1878

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	14 35 9	10 ⁸ 28'06	23 ⁹ 8	19 ⁰ R11	24 ¹ 22	26 ¹ 41	6 ¹ 13	28 ¹ 40	25 ⁰ R20	7 ⁸ 22	24 ⁸ 39	18 ⁰ R48	18 ¹ 17	22 ¹ 31	4 ⁸ 29	W 1
T 2	14 39 6	11 ⁰ 26'17	5 ⁸ 21	18 ⁰ 45	25 ⁰ 20	27 ¹ 19	6 ¹ 17	28 ⁰ 46	25 ⁰ 20	7 ⁰ 24	24 ⁴ 41	18 ⁰ 35	18 ⁰ 14	22 ⁰ 38	4 ⁰ 33	T 2
F 3	14 43 2	12 ⁰ 24'27	17 ⁰ 45	18 ⁰ 15	26 ⁰ 18	27 ⁰ 57	6 ⁰ 22	28 ⁰ 52	25 ⁰ D20	7 ⁰ 26	24 ⁴ 42	18 ⁰ 22	18 ⁰ 11	22 ⁰ 44	4 ⁰ 37	F 3
S 4	14 46 59	13 ⁰ 22'36	0 ¹ 20	17 ⁰ 43	27 ⁰ 17	28 ⁰ 34	6 ⁰ 26	28 ⁰ 58	25 ⁰ 20	7 ⁰ 29	24 ⁴ 43	18 ⁰ 9	18 ⁰ 8	22 ⁰ 51	4 ⁰ 41	S 4
S 5	14 50 55	14 ⁰ 20'42	13 ⁰ 6	17 ⁰ 9	28 ⁰ 16	29 ⁰ 12	6 ⁰ 30	29 ⁰ 4	25 ⁰ 20	7 ⁰ 31	24 ⁴ 45	17 ⁰ 57	18 ⁰ 5	22 ⁰ 58	4 ⁰ 44	S 5
M 6	14 54 52	15 ⁰ 18'47	26 ⁰ 4	16 ⁰ 33	29 ⁰ 15	29 ⁰ 50	6 ⁰ 33	29 ⁰ 10	25 ⁰ 20	7 ⁰ 33	24 ⁴ 46	17 ⁰ 48	18 ⁰ 1	23 ⁰ 4	4 ⁰ 48	M 6
T 7	14 58 48	16 ⁰ 16'50	9 ⁰ 13	15 ⁰ 56	0 ⁰ 15	0 ⁰ 28	6 ⁰ 37	29 ⁰ 16	25 ⁰ 20	7 ⁰ 35	24 ⁴ 47	17 ⁰ 42	17 ⁰ 58	23 ⁰ 11	4 ⁰ 52	T 7
W 8	15 2 45	17 ⁰ 14'51	22 ⁰ 35	15 ⁰ 19	1 ⁰ 15	1 ⁰ 5	6 ⁰ 40	29 ⁰ 22	25 ⁰ 20	7 ⁰ 38	24 ⁴ 49	17 ⁰ 38	17 ⁰ 55	23 ⁰ 18	4 ⁰ 56	W 8
T 9	15 6 42	18 ⁰ 12'51	6 ⁰ 9	14 ⁰ 43	2 ⁰ 15	1 ⁰ 43	6 ⁰ 43	29 ⁰ 28	25 ⁰ 21	7 ⁰ 40	24 ⁴ 50	17 ⁰ 37	17 ⁰ 52	23 ⁰ 24	5 ⁰ 0	T 9
F 10	15 10 38	19 ⁰ 10'48	19 ⁰ 58	14 ⁰ 7	3 ⁰ 16	2 ⁰ 21	6 ⁰ 46	29 ⁰ 33	25 ⁰ 21	7 ⁰ 42	24 ⁴ 51	17 ⁰ 37	17 ⁰ 49	23 ⁰ 31	5 ⁰ 4	F 10
S 11	15 14 35	20 ⁰ 8'43	4 ⁰ 1	13 ⁰ 34	4 ⁰ 17	2 ⁰ 59	6 ⁰ 49	29 ⁰ 39	25 ⁰ 21	7 ⁰ 44	24 ⁴ 53	17 ⁰ 36	17 ⁰ 46	23 ⁰ 38	5 ⁰ 7	S 11
S 12	15 18 31	21 ⁰ 6'37	18 ⁰ 19	13 ⁰ 2	5 ⁰ 18	3 ⁰ 36	6 ⁰ 52	29 ⁰ 45	25 ⁰ 22	7 ⁰ 47	24 ⁴ 54	17 ⁰ 35	17 ⁰ 42	23 ⁰ 44	5 ⁰ 11	S 12
M13	15 22 28	22 ⁰ 4'29	2 ⁰ 50	12 ⁰ 33	6 ⁰ 20	4 ⁰ 14	6 ⁰ 54	29 ⁰ 50	25 ⁰ 22	7 ⁰ 49	24 ⁴ 55	17 ⁰ 31	17 ⁰ 39	23 ⁰ 51	5 ⁰ 15	M13
T 14	15 26 24	23 ⁰ 2'18	17 ⁰ 29	12 ⁰ 8	7 ⁰ 22	4 ⁰ 52	6 ⁰ 57	29 ⁰ 55	25 ⁰ 23	7 ⁰ 51	24 ⁴ 57	17 ⁰ 24	17 ⁰ 36	23 ⁰ 58	5 ⁰ 19	T 14
W15	15 30 21	24 ⁰ 0'07	2 ⁰ 10	11 ⁰ 45	8 ⁰ 24	5 ⁰ 30	6 ⁰ 59	0 ⁰ 1	25 ⁰ 24	7 ⁰ 53	24 ⁴ 58	17 ⁰ 15	17 ⁰ 33	24 ⁰ 4	5 ⁰ 22	W15
T 16	15 34 17	24 ⁰ 57'54	16 ⁰ 47	11 ⁰ 27	9 ⁰ 27	6 ⁰ 7	7 ⁰ 1	0 ⁰ 6	25 ⁰ 24	7 ⁰ 55	25 ⁰ 0	17 ⁰ 4	17 ⁰ 30	24 ⁰ 11	5 ⁰ 26	T 16
F 17	15 38 14	25 ⁰ 55'39	1 ⁰ 12	11 ⁰ 13	10 ⁰ 29	6 ⁰ 45	7 ⁰ 3	0 ⁰ 11	25 ⁰ 25	7 ⁰ 58	25 ⁰ 1	16 ⁰ 53	17 ⁰ 27	24 ⁰ 18	5 ⁰ 30	F 17
S 18	15 42 11	26 ⁰ 53'23	15 ⁰ 18	11 ⁰ 3	11 ⁰ 32	7 ⁰ 23	7 ⁰ 4	0 ⁰ 17	25 ⁰ 26	8 ⁰ 0	25 ⁰ 2	16 ⁰ 42	17 ⁰ 23	24 ⁰ 24	5 ⁰ 34	S 18
S 19	15 46 7	27 ⁰ 51'06	29 ⁰ 1	10 ⁰ 57	12 ⁰ 35	8 ⁰ 0	7 ⁰ 6	0 ⁰ 22	25 ⁰ 27	8 ⁰ 2	25 ⁰ 4	16 ⁰ 33	17 ⁰ 20	24 ⁰ 31	5 ⁰ 37	S 19
M20	15 50 4	28 ⁰ 48'48	12 ⁰ 31	10 ⁰ D56	13 ⁰ 39	8 ⁰ 38	7 ⁰ 7	0 ⁰ 27	25 ⁰ 27	8 ⁰ 4	25 ⁰ 5	16 ⁰ 27	17 ⁰ 17	24 ⁰ 38	5 ⁰ 41	M20
T 21	15 54 0	29 ⁰ 46'29	25 ⁰ 11	11 ⁰ 0	14 ⁰ 42	9 ⁰ 16	7 ⁰ 8	0 ⁰ 32	25 ⁰ 28	8 ⁰ 6	25 ⁰ 6	16 ⁰ 23	17 ⁰ 14	24 ⁰ 44	5 ⁰ 45	T 21
W22	15 57 57	0 ⁰ 11'44'08	7 ⁰ 41	11 ⁰ 8	15 ⁰ 46	9 ⁰ 53	7 ⁰ 9	0 ⁰ 37	25 ⁰ 29	8 ⁰ 8	25 ⁰ 8	16 ⁰ 21	17 ⁰ 11	24 ⁰ 51	5 ⁰ 48	W22
T 23	16 1 53	1 ⁰ 41'47	19 ⁰ 54	11 ⁰ 20	16 ⁰ 50	10 ⁰ 31	7 ⁰ 9	0 ⁰ 41	25 ⁰ 30	8 ⁰ 10	25 ⁰ 9	16 ⁰ D21	17 ⁰ 7	24 ⁰ 58	5 ⁰ 52	T 23
F 24	16 5 50	2 ⁰ 39'24	1 ⁰ 53	11 ⁰ 37	17 ⁰ 55	11 ⁰ 9	7 ⁰ 10	0 ⁰ 46	25 ⁰ 31	8 ⁰ 13	25 ⁰ 10	16 ⁰ R21	17 ⁰ 4	25 ⁰ 4	5 ⁰ 55	F 24
S 25	16 9 46	3 ⁰ 37'00	13 ⁰ 44	11 ⁰ 58	18 ⁰ 59	11 ⁰ 46	7 ⁰ 10	0 ⁰ 51	25 ⁰ 33	8 ⁰ 15	25 ⁰ 12	16 ⁰ 21	17 ⁰ 1	25 ⁰ 11	5 ⁰ 59	S 25
S 26	16 13 43	4 ⁰ 34'36	25 ⁰ 34	12 ⁰ 24	20 ⁰ 4	12 ⁰ 24	7 ⁰ R10	0 ⁰ 55	25 ⁰ 34	8 ⁰ 17	25 ⁰ 13	16 ⁰ 19	16 ⁰ 58	25 ⁰ 18	6 ⁰ 2	S 26
M27	16 17 40	5 ⁰ 32'10	7 ⁰ 25	12 ⁰ 54	21 ⁰ 9	13 ⁰ 2	7 ⁰ 10	1 ⁰ 0	25 ⁰ 35	8 ⁰ 19	25 ⁰ 14	16 ⁰ 14	16 ⁰ 55	25 ⁰ 24	6 ⁰ 6	M27
T 28	16 21 36	6 ⁰ 29'44	19 ⁰ 24	13 ⁰ 28	22 ⁰ 14	13 ⁰ 39	7 ⁰ 9	1 ⁰ 4	25 ⁰ 36	8 ⁰ 21	25 ⁰ 16	16 ⁰ 8	16 ⁰ 52	25 ⁰ 31	6 ⁰ 9	T 28
W29	16 25 33	7 ⁰ 27'17	1 ⁰ 34	14 ⁰ 6	23 ⁰ 19	14 ⁰ 17	7 ⁰ 9	1 ⁰ 9	25 ⁰ 38	8 ⁰ 23	25 ⁰ 17	15 ⁰ 59	16 ⁰ 48	25 ⁰ 38	6 ⁰ 13	W29
T 30	16 29 29	8 ⁰ 24'49	13 ⁰ 56	14 ⁰ 48	24 ⁰ 24	14 ⁰ 55	7 ⁰ 8	1 ⁰ 13	25 ⁰ 39	8 ⁰ 25	25 ⁰ 18	15 ⁰ 48	16 ⁰ 45	25 ⁰ 45	6 ⁰ 16	T 30
F 31	16 33 26	9 ⁰ 12'22'20	26 ⁰ 34	15 ⁰ 34	25 ⁰ 30	15 ⁰ 32	7 ⁰ 7	1 ⁰ 17	25 ⁰ 41	8 ⁰ 27	25 ⁰ 20	15 ⁰ 36	16 ⁰ 42	25 ⁰ 51	6 ⁰ 20	F 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	14n58	13n11	4n31	19n 5	1n37	2s40	0s28	24n41	1n16	19s 5	0s22	2s24	2s 3	13n48	0n45	12n21	1s43	5n38	13s42	15s12	15s22	0s18	12n27	0s37
T 2	15 16	17 54	4 52	18 44	1 23	2 22	0 33	24 42	1 16	19 4	0 22	2 22	2 3	13 48	0 45	12 22	1 43	5 39	13 42	15 16	15 22	0 15	12 28	0 37
F 3	15 34	21 56	5 0	18 22	1 8	2 4	0 39	24 42	1 16	19 4	0 22	2 20	2 3	13 48	0 45	12 23	1 43	5 39	13 41	15 20	15 23	0 12	12 29	0 37
S 4	15 52	25 1	4 53	17 57	0 52	1 45	0 44	24 43	1 16	19 3	0 23	2 18	2 3	13 48	0 45	12 23	1 43	5 40	13 41	15 24	15 24	0 9	12 30	0 37
S 5	16 9	26 53	4 32	17 32	0 35	1 27	0 49	24 43	1 16	19 2	0 23	2 15	2 3	13 48	0 45	12 24	1 43	5 40	13 41	15 28	15 25	0 5	12 32	0 37
M 6	16 26	27 20	3 56	17 5	0 18	1 8	0 54	24 44	1 16	19 1	0 23	2 13	2 4	13 48	0 45	12 25	1 43	5 40	13 41	15 31	15 26	0 2	12 33	0 37
T 7	16 43	26 16	3 8	16 38	0 1	0 48	0 59	24 44	1 16	19 0	0 23	2 11	2 4	13 48	0 45	12 25	1 43	5 41	13 41	15 32	15 27	0n 1	12 34	0 37
W 8	17 0	23 40	2 8	16 11	0s16	0 29	1 4	24 43	1 16	19 0	0 23	2 9	2 4	13 48	0 45	12 26	1 43	5 41	13 41	15 34	15 28	0 5	12 35	0 37
T 9	17 16	19 43	1 0	15 44	0 34	0 9	1 8	24 43	1 16	18 59	0 24	2 7	2 4	13 48	0 45	12 27	1 43	5 41	13 41	15 34	15 29	0 8	12 36	0 37
F 10	17 32	14 38	0s12	15 17	0 51	0n11	1 13	24 42	1 16	18 59	0 24	2 5	2 4	13 47	0 45	12 28	1 43	5 42	13 41	15 34	15 30	0 11	12 38	0 38
S 11	17 48	8 43	1 26	14 50	1 8	0 32	1 17	24 42	1 16	18 58	0 24	2 3	2 4	13 47	0 45	12 28	1 43	5 42	13 41	15 34	15 31	0 15	12 39	0 38
S 12	18 3	2 15	2 35	14 25	1 24	0 52	1 21	24 41	1 16	18 58	0 24	2 0	2 5	13 47	0 45	12 29	1 43	5 43	13 41	15 35	15 32	0 18	12 40	0 38
M13	18 18	4s24	3 35	14 1	1 40	1 13	1 25	24 40	1 16	18 57	0 24	1 58	2 5	13 47	0 45	12 30	1 43	5 43	13 41	15 36	15 33	0 21	12 41	0 38
T 14	18 33	10 53	4 21	13 39	1 55	1 34	1 29	24 38	1 16	18 57	0 25	1 56	2 5	13 47	0 45	12 30	1 43	5 43	13 41	15 38	15 34	0 24	12 42	0 38
W15	18 47	16 46	4 50	13 19	2 10	1 55	1 32	24 37	1 16	18 56	0 25	1 55	2 5	13 46	0 45	12 31	1 43	5 44	13 41	15 41	15 35	0 28	12 44	0 38
T 16	19 1	21 40	5 1	13 1	2 23	2 17	1 36	24 35	1 16	18 56	0 25	1 53	2 5	13 46	0 45	12 32	1 43	5 44	13 41	15 44	15 36	0 31	12 45	0 38
F 17	19 15	25 10	4 51	12 44	2 35	2 38	1 39	24 33	1 16	18 56	0 25	1 51	2 6	13 46	0 45	12 32	1 43	5 44	13 41	15 47	15 37	0 34	12 46	0 38
S 18	19 29	27 2	4 24	12 30	2 47	3 0	1 42	24 31	1 16	18 56	0 25	1 49	2 6	13 45	0 45	12 33	1 43	5 45	13 41	15 51	15 38	0 38	12 47	0 38
S 19	19 42	27 10	3 43	12 19	2 57	3 22	1 45	24 29	1 16	18 56	0 26	1 47	2 6	13 45	0 45	12 34	1 43	5 45	13 41	15 53	15 39	0 41	12 48	0 38
M20	19 55	25 42	2 50	12 10	3 6	3 44	1 48	24 27	1 16	18 55	0 26	1 45	2 6	13 45	0 45	12 35	1 43	5 45	13 41	15 55	15 40	0 44	12 49	0 38
T 21	20 7	22 55	1 50	12 3	3 15	4 6	1 51	24 24	1 16	18 55	0 26	1 43	2 6	13 44	0 45	12 35	1 43	5 46	13 41	15 56	15 41	0 47	12 50	0 39
W22	20 19	19 6	0 46	11 59	3 22	4 28	1 54	24 21	1 16	18 55	0 26	1 42	2 7	13 44	0 45	12 36	1 43	5 46	13 41	15 57	15 42	0 51	12 51	0 39
T 23	20 31	14 34	0n19	11 57	3 28	4 50	1 56	24 18	1 16	18 55	0 26	1 40	2 7	13 44	0 45	12 37	1 44	5 46	13 41	15 57	15 43	0 54	12 53	0 39
F 24	20 42	9 33	1 22	11 57	3 33	5 12	1 59	24 15	1 16	18 55	0 27	1 38	2 7	13 43	0 45	12 37	1 44	5 46	13 41	15 57	15 44	0 57	12 54	0 39
S 25	20 53	4 15	2 20	12 0	3 37	5 34	2 1	24 12	1 16	18 56	0 27	1 37	2 7	13 43	0 45	12 38	1 44	5 47	13 41	15 57	15 45	1 1	12 55	0 39
S 26	21 4	1n11	3 12	12 4	3 40	5 57	2 3	24 9	1 16	18 56	0 27	1 35	2 8	13 42	0 45	12 38	1 44	5 47	13 41	15 58	15 46	1 4	12 56	0 39
M27	21 15	6 34	3 56	12 11	3 42	6 19	2 5	24 5	1 16	18 56	0 27	1 33	2 8	13 42	0 44	12 39	1 44	5 47	13 41	15 59	15 47	1 7	12 57	0 39
T 28	21 25	11 46	4 31	12 20	3 43	6 42	2 7	24 1	1 16	18 56	0 27	1 32	2 8	13 41	0 44	12 40	1 44	5 48	13 41	16 1	15 48	1 10	12 58	0 39
W29	21 34	16 36	4 53	12 31	3 44	7 4	2 9	23 57	1 16	18 57	0 28	1 30	2 8	13 41	0 44	12 40	1 44	5 48	13 41	16 4	15 49	1 14	12 59	0 39
T 30	21 43	20 30	5 2	12 44	3 43	7 27	2 10	23 53	1 16	18 57	0 28	1 29	2 8	13 40	0 44	12 41	1 44	5 48	13 41	16 7	15 50	1 17	13 0	0 39
F 31	21n52	24n13	4n57	12n59	3s41	7n49	2s12	23n49	1n16	18s57	0s28	1s27	2s 9	13n40	0n44	12n42	1s44	5n48	13s41	16s10	15s51	1n20	13n 1	0s40

ASTRODIENST EPHEMERIS for the year 1878
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JUNE 1878

00:00 UT

Day	Sid.t	☉	☾	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	16 37 22	10 ^{II} 19°50	9 ^{II} 26	16 [♈] 23	26 [♉] 36	16 [♊] 10	7°R 6	1°V22	25 [♌] 42	8 [♍] 29	25 [♎] 21	15°R25	16 [♏] 39	25 [♐] 58	6 [♑] 23	S 1
S 2	16 41 19	11°17'19	22°32	17°16	27°41	16°48	7 [♒] 5	1°26	25°44	8°31	25°22	15 [♓] 15	16°36	26° 5	6°27	S 2
M 3	16 45 15	12°14'47	5 [♈] 51	18°13	28°47	17°25	7° 3	1°30	25°45	8°33	25°24	15° 7	16°33	26°11	6°30	M 3
T 4	16 49 12	13°12'14	19°22	19°13	29°54	18° 3	7° 2	1°34	25°47	8°35	25°25	15° 2	16°29	26°18	6°33	T 4
W 5	16 53 9	14° 9'40	3 [♊] 0 3	20°16	1 [♋] 8 0	18°41	7° 0	1°37	25°49	8°37	25°26	15° 0	16°26	26°25	6°37	W 5
T 6	16 57 5	15° 7'05	16°52	21°23	2° 6	19°18	6°58	1°41	25°50	8°39	25°28	14°D59	16°23	26°31	6°40	T 6
F 7	17 1 2	16° 4'28	0 [♌] 49	22°33	3°13	19°56	6°56	1°45	25°52	8°40	25°29	15° 0	16°20	26°38	6°43	F 7
S 8	17 4 58	17° 1'51	14°53	23°46	4°20	20°34	6°53	1°48	25°54	8°42	25°30	15°R 0	16°17	26°45	6°46	S 8
S 9	17 8 55	17°59'12	29° 3	25° 2	5°27	21°11	6°51	1°52	25°56	8°44	25°31	15° 0	16°13	26°51	6°49	S 9
M10	17 12 51	18°56'32	13 [♍] 19	26°21	6°34	21°49	6°48	1°55	25°58	8°46	25°33	14°57	16°10	26°58	6°52	M10
T 11	17 16 48	19°53'51	27°36	27°43	7°41	22°27	6°45	1°58	26° 0	8°48	25°34	14°53	16° 7	27° 5	6°56	T 11
W12	17 20 44	20°51'10	11 [♎] 52	29° 9	8°48	23° 4	6°42	2° 2	26° 2	8°50	25°35	14°46	16° 4	27°11	6°59	W12
T 13	17 24 41	21°48'27	26° 3	0 [♏] 37	9°55	23°42	6°38	2° 5	26° 4	8°51	25°36	14°39	16° 1	27°18	7° 2	T 13
F 14	17 28 38	22°45'44	10 [♐] 3	2° 8	11° 3	24°20	6°35	2° 8	26° 6	8°53	25°38	14°30	15°58	27°25	7° 5	F 14
S 15	17 32 34	23°43'01	23°48	3°42	12°10	24°57	6°31	2°11	26° 8	8°55	25°39	14°22	15°54	27°31	7° 8	S 15
S 16	17 36 31	24°40'16	7 [♑] 14	5°20	13°18	25°35	6°27	2°14	26°10	8°57	25°40	14°16	15°51	27°38	7°10	S 16
M17	17 40 27	25°37'31	20°21	7° 0	14°26	26°12	6°23	2°16	26°12	8°58	25°41	14°11	15°48	27°45	7°13	M17
T 18	17 44 24	26°34'46	3 [♒] 7	8°43	15°34	26°50	6°19	2°19	26°15	9° 0	25°42	14° 9	15°45	27°51	7°16	T 18
W19	17 48 20	27°32'00	15°35	10°28	16°42	27°28	6°15	2°22	26°17	9° 2	25°44	14°D 8	15°42	27°58	7°19	W19
T 20	17 52 17	28°29'14	27°47	12°17	17°50	28° 5	6°10	2°24	26°19	9° 3	25°45	14° 9	15°39	28° 5	7°22	T 20
F 21	17 56 13	29°26'28	9 [♒] 47	14° 8	18°58	28°43	6° 6	2°27	26°22	9° 5	25°46	14°10	15°35	28°11	7°25	F 21
S 22	18 0 10	0 [♓] 23'42	21°40	16° 2	20° 6	29°21	6° 1	2°29	26°24	9° 6	25°47	14°12	15°32	28°18	7°27	S 22
S 23	18 4 7	1°20'56	3 [♉] 30	17°58	21°15	29°58	5°56	2°31	26°27	9° 8	25°48	14°R12	15°29	28°25	7°30	S 23
M24	18 8 3	2°18'09	15°24	19°57	22°23	0 [♊] 36	5°51	2°33	26°29	9° 9	25°49	14°11	15°26	28°31	7°32	M24
T 25	18 12 0	3°15'23	27°25	21°58	23°32	1°14	5°45	2°35	26°32	9°11	25°51	14° 8	15°23	28°38	7°35	T 25
W26	18 15 56	4°12'36	9 [♋] 39	24° 1	24°41	1°51	5°40	2°37	26°34	9°12	25°52	14° 4	15°19	28°45	7°38	W26
T 27	18 19 53	5° 9'50	22° 8	26° 6	25°50	2°29	5°34	2°39	26°37	9°14	25°53	13°58	15°16	28°52	7°40	T 27
F 28	18 23 49	6° 7'03	4 [♌] 55	28°12	26°58	3° 7	5°29	2°41	26°40	9°15	25°54	13°52	15°13	28°58	7°42	F 28
S 29	18 27 46	7° 4'17	18° 1	0 [♍] 20	28° 7	3°44	5°23	2°42	26°42	9°17	25°55	13°46	15°10	29° 5	7°45	S 29
S 30	18 31 43	8 [♎] 1'31	1 [♎] 25	2 [♎] 29	29 [♏] 17	4 [♏] 22	5 [♏] 17	2°V44	26 [♐] 45	9 [♑] 18	25 [♑] 56	13 [♒] 41	15 [♒] 7	29 [♒] 12	7 [♓] 47	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 1	26n26	4n37	13n15	3s39	8n12	2s13	23n44	1n16	18s58	0s28	1s26	2s 9	13n39	0n44	12n42	1s44	5n49	13s41	16s13	15s51	1n23	13n 2	0s40
S 2	22 9	27 16	4 2	13 33	3 36	8 34	2 15	23 39	1 16	18 58	0 28	1 24	2 9	13 39	0 44	12 43	1 44	5 49	13 41	16 16	15 52	1 27	13 3	0 40
M 3	22 17	26 32	3 13	13 52	3 32	8 56	2 16	23 35	1 16	18 59	0 29	1 23	2 9	13 38	0 44	12 43	1 44	5 49	13 41	16 19	15 53	1 30	13 4	0 40
T 4	22 24	24 14	2 12	14 12	3 28	9 19	2 17	23 30	1 16	19 0	0 29	1 22	2 10	13 38	0 44	12 44	1 44	5 49	13 41	16 20	15 54	1 33	13 5	0 40
W 5	22 31	20 31	1 3	14 34	3 23	9 41	2 18	23 24	1 16	19 0	0 29	1 20	2 10	13 37	0 44	12 45	1 44	5 50	13 41	16 21	15 55	1 37	13 6	0 40
T 6	22 38	15 38	0s10	14 57	3 17	10 3	2 18	23 19	1 16	19 1	0 29	1 19	2 10	13 36	0 44	12 45	1 44	5 50	13 41	16 21	15 56	1 40	13 7	0 40
F 7	22 44	9 53	1 24	15 21	3 11	10 25	2 19	23 13	1 16	19 2	0 30	1 18	2 10	13 36	0 44	12 46	1 44	5 50	13 41	16 21	15 57	1 43	13 8	0 40
S 8	22 49	3 37	2 33	15 46	3 4	10 47	2 20	23 8	1 16	19 3	0 30	1 17	2 11	13 35	0 44	12 46	1 44	5 50	13 41	16 21	15 58	1 46	13 9	0 40
S 9	22 55	2s53	3 33	16 11	2 56	11 9	2 20	23 2	1 16	19 4	0 30	1 16	2 11	13 35	0 44	12 47	1 44	5 50	13 41	16 21	15 59	1 50	13 10	0 40
M10	23 0	9 15	4 21	16 38	2 48	11 30	2 20	22 56	1 15	19 4	0 30	1 14	2 11	13 34	0 44	12 47	1 44	5 51	13 41	16 22	16 0	1 53	13 11	0 41
T 11	23 4	15 10	4 52	17 5	2 39	11 52	2 21	22 50	1 15	19 5	0 30	1 13	2 11	13 33	0 44	12 48	1 44	5 51	13 41	16 23	16 1	1 56	13 12	0 41
W12	23 8	20 15	5 5	17 32	2 30	12 13	2 21	22 43	1 15	19 6	0 31	1 12	2 12	13 32	0 44	12 48	1 44	5 51	13 41	16 25	16 2	1 59	13 13	0 41
T 13	23 12	24 8	5 0	18 0	2 21	12 34	2 21	22 37	1 15	19 7	0 31	1 11	2 12	13 32	0 44	12 49	1 44	5 51	13 42	16 27	16 3	2 3	13 14	0 41
F 14	23 16	26 32	4 36	18 28	2 11	12 55	2 21	22 30	1 15	19 8	0 31	1 10	2 12	13 31	0 44	12 49	1 44	5 51	13 42	16 30	16 4	2 6	13 14	0 41
S 15	23 18	27 15	3 57	18 56	2 1	13 16	2 21	22 23	1 15	19 10	0 31	1 9	2 12	13 30	0 44	12 50	1 44	5 52	13 42	16 32	16 5	2 9	13 15	0 41
S 16	23 21	26 21	3 5	19 24	1 50	13 37	2 20	22 16	1 15	19 11	0 31	1 9	2 13	13 29	0 44	12 51	1 44	5 52	13 42	16 34	16 6	2 13	13 16	0 41
M17	23 23	23 58	2 5	19 52	1 39	13 57	2 20	22 9	1 15	19 12	0 32	1 8	2 13	13 29	0 44	12 51	1 44	5 52	13 42	16 35	16 7	2 16	13 17	0 41
T 18	23 25	20 26	0 59	20 19	1 28	14 17	2 19	22 2	1 15	19 13	0 32	1 7	2 13	13 28	0 44	12 51	1 44	5 52	13 42	16 36	16 8	2 19	13 18	0 41
W19	23 26	16 3	0n 8	20 46	1 17	14 37	2 19	21 54	1 15	19 14	0 32	1 6	2 13	13 27	0 44	12 52	1 44	5 52	13 42	16 36	16 9	2 22	13 19	0 42
T 20	23 27	11 7	1 13	21 12	1 5	14 57	2 18	21 47	1 15	19 16	0 32	1 5	2 14	13 26	0 44	12 52	1 44	5 52	13 42	16 36	16 10	2 26	13 19	0 42
F 21	23 27	5 50	2 14	21 38	0 54	15 16	2 17	21 39	1 15	19 17	0 32	1 5	2 14	13 25	0 44	12 53	1 45	5 52	13 42	16 35	16 10	2 29	13 20	0 42
S 22	23 27	0 25	3 9	22 2	0 42	15 35	2 16	21 31	1 14	19 19	0 33	1 4	2 14	13 24	0 44	12 53	1 45	5 53	13 43	16 35	16 11	2 32	13 21	0 42
S 23	23 27	5n 0	3 56	22 24	0 30	15 54	2 16	21 23	1 14	19 20	0 33	1 3	2 15	13 24	0 44	12 54	1 45	5 53	13 43	16 35	16 12	2 35	13 22	0 42
M24	23 26	10 15	4 32	22 46	0 19	16 13	2 14	21 15	1 14	19 21	0 33	1 3	2 15	13 23	0 44	12 54	1 45	5 53	13 43	16 35	16 13	2 39	13 22	0 42
T 25	23 25	15 11	4 57	23 5	0 7	16 31	2 13	21 6	1 14	19 23	0 33	1 2	2 15	13 22	0 44	12 55	1 45	5 53	13 43	16 36	16 14	2 42	13 23	0 42
W26	23 23	19 36	5 9	23 23	0n 4	16 49	2 12	20 58	1 14	19 24	0 33	1 2	2 15	13 21	0 43	12 55	1 45	5 53	13 43	16 37	16 15	2 45	13 24	0 42
T 27	23 21	23 15	5 7	23 39	0 15	17 6	2 11	20 49	1 14	19 26	0 34	1 1	2 16	13 20	0 43	12 56	1 45	5 53	13 43	16 39	16 16	2 48	13 25	0 42
F 28	23 19	25 53	4 50	23 52	0 25	17 24	2 9	20 40	1 14	19 28	0 34	1 1	2 16	13 19	0 43	12 56	1 45	5 53	13 43	16 41	16 17	2 52	13 25	0 43
S 29	23 16	27 11	4 17	24 3	0 35	17 41	2 8	20 31	1 14	19 29	0 34	1 0	2 16	13 18	0 43	12 56	1 45	5 53	13 44	16 42	16 18	2 55	13 26	0 43
S 30	23n13	26n56	3n29	24n11	0n45	17n57	2s 7	20n22	1n13	19s31	0s34	1s 0	2s16	13n17	0n43	12n57	1s45	5n53	13s44	16s44	16s19	2n58	13n27	0s43

ASTRODIENST EPHEMERIS for the year 1878
geocentric

JULY 1878

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	18 35 39	8°58'44	15°6	4°39	0°26	5°0	5°R11	2°45	26°48	9°20	25°57	13°R37	15°4	29°18	7°50	M 1
T 2	18 39 36	9°55'58	29°1	6°49	1°35	5°37	5°5	2°47	26°51	9°21	25°58	13°34	15°0	29°25	7°52	T 2
W 3	18 43 32	10°53'11	13°0	9°0	2°44	6°15	4°58	2°48	26°54	9°22	25°59	13°D33	14°57	29°32	7°54	W 3
T 4	18 47 29	11°50'24	27°20	11°10	3°54	6°53	4°52	2°49	26°56	9°23	26°0	13°34	14°54	29°38	7°56	T 4
F 5	18 51 25	12°47'37	11°36	13°20	5°3	7°30	4°45	2°50	26°59	9°25	26°1	13°35	14°51	29°45	7°58	F 5
S 6	18 55 22	13°44'49	25°52	15°30	6°13	8°8	4°38	2°51	27°2	9°26	26°2	13°37	14°48	29°52	8°0	S 6
S 7	18 59 18	14°42'02	10°6	17°38	7°22	8°46	4°32	2°52	27°5	9°27	26°3	13°R37	14°45	29°58	8°2	S 7
M 8	19 3 15	15°39'14	24°16	19°46	8°32	9°23	4°25	2°52	27°8	9°28	26°4	13°37	14°41	0°5	8°4	M 8
T 9	19 7 12	16°36'26	8°19	21°53	9°42	10°1	4°18	2°53	27°11	9°29	26°5	13°36	14°38	0°12	8°6	T 9
W10	19 11 8	17°33'38	22°15	23°58	10°52	10°39	4°11	2°54	27°14	9°30	26°6	13°33	14°35	0°18	8°8	W10
T 11	19 15 5	18°30'50	6°0	26°2	12°2	11°17	4°4	2°54	27°18	9°31	26°7	13°30	14°32	0°25	8°10	T 11
F 12	19 19 1	19°28'02	19°33	28°4	13°12	11°54	3°56	2°54	27°21	9°33	26°8	13°27	14°29	0°32	8°12	F 12
S 13	19 22 58	20°25'15	2°52	0°5	14°22	12°32	3°49	2°54	27°24	9°34	26°8	13°23	14°25	0°39	8°14	S 13
S 14	19 26 54	21°22'27	15°57	2°3	15°32	13°10	3°42	2°55	27°27	9°35	26°9	13°21	14°22	0°45	8°15	S 14
M15	19 30 51	22°19'40	28°46	4°1	16°42	13°47	3°34	2°R55	27°30	9°35	26°10	13°19	14°19	0°52	8°17	M15
T 16	19 34 47	23°16'53	11°19	5°56	17°53	14°25	3°27	2°55	27°33	9°36	26°11	13°D18	14°16	0°59	8°19	T 16
W17	19 38 44	24°14'07	23°39	7°50	19°3	15°3	3°19	2°54	27°37	9°37	26°12	13°19	14°13	1°5	8°20	W17
T 18	19 42 41	25°11'21	5°47	9°42	20°13	15°41	3°12	2°54	27°40	9°38	26°13	13°20	14°10	1°12	8°22	T 18
F 19	19 46 37	26°8'36	17°45	11°32	21°24	16°18	3°4	2°54	27°43	9°39	26°13	13°21	14°6	1°19	8°23	F 19
S 20	19 50 34	27°5'52	29°37	13°20	22°35	16°56	2°56	2°53	27°47	9°40	26°14	13°22	14°3	1°25	8°24	S 20
S 21	19 54 30	28°3'08	11°28	15°6	23°45	17°34	2°49	2°53	27°50	9°41	26°15	13°23	14°0	1°32	8°26	S 21
M22	19 58 27	29°0'25	23°22	16°51	24°56	18°12	2°41	2°52	27°53	9°41	26°15	13°24	13°57	1°39	8°27	M22
T 23	20 2 23	29°57'43	5°24	18°34	26°7	18°50	2°33	2°51	27°57	9°42	26°16	13°R24	13°54	1°45	8°28	T 23
W24	20 6 20	0°55'02	17°37	20°15	27°18	19°27	2°25	2°50	28°0	9°43	26°17	13°24	13°51	1°52	8°29	W24
T 25	20 10 16	1°52'22	0°11	21°54	28°29	20°5	2°18	2°49	28°4	9°43	26°18	13°22	13°47	1°59	8°30	T 25
F 26	20 14 13	2°49'43	12°57	23°32	29°40	20°43	2°10	2°48	28°7	9°44	26°18	13°21	13°44	2°5	8°31	F 26
S 27	20 18 10	3°47'05	26°9	25°8	0°51	21°21	2°2	2°47	28°11	9°45	26°19	13°20	13°41	2°12	8°32	S 27
S 28	20 22 6	4°44'28	9°44	26°42	2°2	21°59	1°54	2°46	28°14	9°45	26°19	13°19	13°38	2°19	8°33	S 28
M29	20 26 3	5°41'52	23°41	28°14	3°13	22°37	1°47	2°44	28°18	9°46	26°20	13°18	13°35	2°26	8°34	M29
T 30	20 29 59	6°39'17	7°28	29°44	4°25	23°14	1°39	2°43	28°21	9°46	26°21	13°D18	13°31	2°32	8°35	T 30
W31	20 33 56	7°36'42	22°28	1°13	5°36	23°52	1°31	2°41	28°25	9°46	26°21	13°18	13°28	2°39	8°36	W31

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
M 1	23n 9	25n 4	2n29	24n17	0n54	18n13	2s 5	20n13	1n13	19s33	0s34	1s 0	2s17	13n16	0n43	12n57	1s45	5n53	13s44	16s45	16s20	3n 1	13n27	0s43	
T 2	23 5	21 39	1 19	24 20	1 3	18 29	2 3	20 4	1 13	19 34	0 35	0 59	2 17	13 15	0 43	12 57	1 45	5 54	13 44	16 46	16 21	3 4	13 28	0 43	
W 3	23 1	16 56	0 2	24 20	1 11	18 44	2 1	19 54	1 13	19 36	0 35	0 59	2 17	13 14	0 43	12 58	1 45	5 54	13 44	16 46	16 22	3 8	13 28	0 43	
T 4	22 56	11 14	1s15	24 17	1 18	18 59	2 0	19 45	1 13	19 38	0 35	0 59	2 18	13 13	0 43	12 58	1 45	5 54	13 44	16 46	16 23	3 11	13 29	0 43	
F 5	22 50	4 57	2 27	24 11	1 24	19 14	1 58	19 35	1 13	19 39	0 35	0 59	2 18	13 12	0 43	12 59	1 45	5 54	13 45	16 45	16 24	3 14	13 30	0 43	
S 6	22 45	1s35	3 31	24 3	1 30	19 28	1 56	19 25	1 13	19 41	0 35	0 59	2 18	13 11	0 43	12 59	1 45	5 54	13 45	16 45	16 24	3 17	13 30	0 43	
S 7	22 39	8 1	4 22	23 52	1 35	19 41	1 54	19 15	1 12	19 43	0 36	0 59	2 18	13 10	0 43	12 59	1 45	5 54	13 45	16 45	16 25	3 21	13 31	0 44	
M 8	22 32	14 0	4 56	23 38	1 40	19 54	1 52	19 5	1 12	19 45	0 36	0 59	2 19	13 9	0 43	12 59	1 45	5 54	13 45	16 45	16 26	3 24	13 31	0 44	
T 9	22 25	19 12	5 12	23 22	1 43	20 7	1 50	18 54	1 12	19 47	0 36	0 59	2 19	13 8	0 43	13 0	1 45	5 54	13 45	16 45	16 27	3 27	13 32	0 44	
W10	22 18	23 20	5 10	23 4	1 46	20 19	1 47	18 44	1 12	19 49	0 36	0 59	2 19	13 7	0 43	13 0	1 45	5 54	13 45	16 46	16 28	3 30	13 32	0 44	
T 11	22 11	26 5	4 50	22 43	1 48	20 31	1 45	18 33	1 12	19 50	0 36	0 59	2 19	13 6	0 43	13 0	1 46	5 54	13 46	16 47	16 29	3 34	13 33	0 44	
F 12	22 3	27 16	4 14	22 21	1 49	20 42	1 43	18 23	1 12	19 52	0 36	0 59	2 20	13 5	0 43	13 1	1 46	5 54	13 46	16 48	16 30	3 37	13 33	0 44	
S 13	21 54	26 50	3 24	21 56	1 50	20 53	1 41	18 12	1 12	19 54	0 37	0 59	2 20	13 4	0 43	13 1	1 46	5 54	13 46	16 49	16 31	3 40	13 34	0 44	
S 14	21 45	24 54	2 25	21 30	1 50	21 3	1 38	18 1	1 11	19 56	0 37	0 59	2 20	13 2	0 43	13 1	1 46	5 54	13 46	16 50	16 32	3 43	13 34	0 44	
M15	21 36	21 43	1 19	21 2	1 49	21 12	1 36	17 50	1 11	19 58	0 37	1 0	2 21	13 1	0 43	13 1	1 46	5 54	13 46	16 50	16 33	3 46	13 34	0 45	
T 16	21 27	17 34	0 11	20 32	1 48	21 21	1 33	17 39	1 11	20 0	0 37	1 0	2 21	13 0	0 43	13 2	1 46	5 54	13 47	16 50	16 34	3 50	13 35	0 45	
W17	21 17	12 45	0n57	20 2	1 46	21 30	1 31	17 28	1 11	20 2	0 37	1 0	2 21	12 59	0 43	13 2	1 46	5 54	13 47	16 50	16 35	3 53	13 35	0 45	
T 18	21 7	7 32	2 1	19 30	1 43	21 38	1 28	17 16	1 11	20 4	0 37	1 0	2 21	12 58	0 43	13 2	1 46	5 54	13 47	16 50	16 36	3 56	13 36	0 45	
F 19	20 56	2 6	2 59	18 56	1 40	21 45	1 25	17 5	1 11	20 6	0 38	1 1	2 22	12 57	0 43	13 2	1 46	5 54	13 47	16 50	16 36	3 59	13 36	0 45	
S 20	20 45	3n21	3 49	18 22	1 36	21 52	1 23	16 53	1 10	20 8	0 38	1 1	2 22	12 56	0 43	13 2	1 46	5 54	13 48	16 49	16 37	4 3	13 36	0 45	
S 21	20 34	8 40	4 29	17 47	1 32	21 59	1 20	16 42	1 10	20 10	0 38	1 2	2 22	12 54	0 43	13 3	1 46	5 54	13 48	16 49	16 38	4 6	13 36	0 45	
M22	20 22	13 41	4 57	17 11	1 27	22 4	1 17	16 30	1 10	20 11	0 38	1 2	2 22	12 53	0 43	13 3	1 46	5 53	13 48	16 49	16 39	4 9	13 37	0 45	
T 23	20 10	18 15	5 13	16 35	1 22	22 9	1 15	16 18	1 10	20 13	0 38	1 3	2 23	12 52	0 43	13 3	1 46	5 53	13 48	16 49	16 40	4 12	13 37	0 46	
W24	19 58	22 8	5 16	15 57	1 17	22 14	1 12	16 6	1 10	20 15	0 38	1 3	2 23	12 51	0 43	13 3	1 46	5 53	13 48	16 49	16 41	4 15	13 37	0 46	
T 25	19 45	25 7	5 3	15 20	1 11	22 18	1 9	15 54	1 9	20 17	0 38	1 4	2 23	12 50	0 43	13 3	1 46	5 53	13 49	16 49	16 42	4 19	13 38	0 46	
F 26	19 32	26 55	4 35	14 42	1 4	22 21	1 6	15 41	1 9	20 19	0 39	1 5	2 24	12 48	0 43	13 3	1 46	5 53	13 49	16 49	16 43	4 22	13 38	0 46	
S 27	19 19	27 16	3 52	14 3	0 57	22 24	1 3	15 29	1 9	20 21	0 39	1 6	2 24	12 47	0 43	13 4	1 46	5 53	13 49	16 50	16 44	4 25	13 38	0 46	
S 28	19 6	26 1	2 55	13 25	0 50	22 26	1 0	15 17	1 9	20 23	0 39	1 6	2 24	12 46	0 43	13 4	1 47	5 53	13 49	16 50	16 45	4 28	13 38	0 46	
M29	18 52	23 8	1 47	12 46	0 43	22 28	0 58	15 4	1 9	20 25	0 39	1 7	2 24	12 45	0 43	13 4	1 47	5 53	13 50	16 50	16 46	4 31	13 38	0 46	
T 30	18 37	18 46	0 30	12 7	0 35	22 28	0 55	14 52	1 8	20 27	0 39	1 8	2 25	12 43	0 43	13 4	1 47	5 53	13 50	16 50	16 47	4 35	13 38	0 46	
W31	18n23	13n14	0s51	11n28	0n27	22n29	0s52	14n39	1n 8	20s28	0s39	1s 9	2s25	12n42	0n43	13n 4	1s47	5n53	13s50	16s50	16s47	4n38	13n39	0s47	

ASTRODIENST EPHEMERIS for the year 1878

geocentric

AUGUST 1878

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 37 52	8♂34'08	7♂ 7	2♂40	6♂47	24♂30	1°R23	2°R40	28♂28	9♂47	26♂22	13♂18	13♂25	2°Y46	8♂37	T 1
F 2	20 41 49	9°31'35	21°48	4° 5	7°59	25° 8	1♂16	2°Y38	28°32	9°47	26°22	13°19	13°22	2°52	8°37	F 2
S 3	20 45 45	10°29'03	6♂25	5°28	9°10	25°46	1° 8	2°36	28°36	9°48	26°23	13°19	13°19	2°59	8°38	S 3
S 4	20 49 42	11°26'31	20°53	6°49	10°22	26°24	1° 1	2°34	28°39	9°48	26°23	13°19	13°16	3° 6	8°38	S 4
M 5	20 53 39	12°24'00	5♂ 8	8° 8	11°34	27° 2	0°53	2°32	28°43	9°48	26°24	13°19	13°12	3°12	8°39	M 5
T 6	20 57 35	13°21'30	19° 7	9°26	12°45	27°40	0°46	2°30	28°46	9°48	26°24	13°19	13° 9	3°19	8°39	T 6
W 7	21 1 32	14°19'00	2♂51	10°41	13°57	28°18	0°38	2°28	28°50	9°49	26°24	13°19	13° 6	3°26	8°40	W 7
T 8	21 5 28	15°16'32	16°18	11°54	15° 9	28°56	0°31	2°25	28°54	9°49	26°25	13°19	13° 3	3°32	8°40	T 8
F 9	21 9 25	16°14'04	29°29	13° 5	16°21	29°34	0°24	2°23	28°57	9°49	26°25	13°19	13° 0	3°39	8°40	F 9
S 10	21 13 21	17°11'37	12♂25	14°14	17°33	0♂12	0°17	2°20	29° 1	9°49	26°26	13°20	12°57	3°46	8°40	S 10
S 11	21 17 18	18° 9'11	25° 8	15°20	18°45	0°50	0°10	2°18	29° 5	9°49	26°26	13°20	12°53	3°53	8°40	S 11
M12	21 21 14	19° 6'47	7♂38	16°24	19°57	1°28	0° 3	2°15	29° 9	9°49	26°26	13°R20	12°50	3°59	8°41	M12
T 13	21 25 11	20° 4'23	19°57	17°26	21° 9	2° 6	29♂56	2°12	29°12	9°R49	26°27	13°20	12°47	4° 6	8°R41	T 13
W14	21 29 8	21° 2'01	2♂ 6	18°25	22°21	2°44	29°49	2° 9	29°16	9°49	26°27	13°20	12°44	4°13	8°41	W14
T 15	21 33 4	21°59'39	14° 7	19°21	23°33	3°22	29°42	2° 7	29°20	9°49	26°27	13°19	12°41	4°19	8°40	T 15
F 16	21 37 1	22°57'20	26° 1	20°14	24°46	4° 0	29°36	2° 4	29°23	9°49	26°27	13°18	12°37	4°26	8°40	F 16
S 17	21 40 57	23°55'01	7°Y52	21° 4	25°58	4°38	29°29	2° 0	29°27	9°49	26°27	13°17	12°34	4°33	8°40	S 17
S 18	21 44 54	24°52'44	19°43	21°50	27°10	5°16	29°23	1°57	29°31	9°49	26°28	13°15	12°31	4°39	8°40	S 18
M19	21 48 50	25°50'29	1♂37	22°34	28°23	5°54	29°17	1°54	29°35	9°49	26°28	13°14	12°28	4°46	8°39	M19
T 20	21 52 47	26°48'16	13°37	23°13	29°35	6°32	29°11	1°51	29°38	9°49	26°28	13°13	12°25	4°53	8°39	T 20
W21	21 56 43	27°46'04	25°49	23°49	0♂48	7°11	29° 5	1°47	29°42	9°48	26°28	13°D12	12°22	4°59	8°39	W21
T 22	22 0 40	28°43'54	8♂16	24°21	2° 1	7°49	28°59	1°44	29°46	9°48	26°28	13°12	12°18	5° 6	8°38	T 22
F 23	22 4 37	29°41'45	21° 2	24°48	3°13	8°27	28°53	1°40	29°50	9°48	26°28	13°13	12°15	5°13	8°38	F 23
S 24	22 8 33	0♂39'39	4♂12	25°11	4°26	9° 5	28°47	1°37	29°53	9°47	26°28	13°14	12°12	5°20	8°37	S 24
S 25	22 12 30	1°37'34	17°48	25°29	5°39	9°43	28°42	1°33	29°57	9°47	26°28	13°16	12° 9	5°26	8°36	S 25
M26	22 16 26	2°35'31	1♂49	25°42	6°52	10°21	28°37	1°29	0♂ 1	9°47	26°28	13°17	12° 6	5°33	8°36	M26
T 27	22 20 23	3°33'30	16°16	25°50	8° 5	11° 0	28°32	1°26	0° 5	9°46	26°R28	13°R17	12° 3	5°40	8°35	T 27
W28	22 24 19	4°31'30	1♂ 2	25°R52	9°18	11°38	28°27	1°22	0° 8	9°46	26°28	13°16	11°59	5°46	8°34	W28
T 29	22 28 16	5°29'31	16° 2	25°48	10°31	12°16	28°22	1°18	0°12	9°45	26°28	13°14	11°56	5°53	8°33	T 29
F 30	22 32 12	6°27'35	1♂ 7	25°38	11°44	12°55	28°17	1°14	0°16	9°45	26°28	13°12	11°53	6° 0	8°32	F 30
S 31	22 36 9	7♂25'40	16♂ 7	25♂22	12♂57	13♂33	28♂13	1°Y10	0♂20	9♂44	26♂28	13♂ 9	11♂50	6°Y 6	8♂31	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	18n 8	6n55	2s 8	10n49	0n18	22n28	0s49	14n26	1n 8	20s30	0s39	1s10	2s25	12n41	0n43	13n 4
F 2	17 53	0 14	3 18	10 10	0 9	22 27	0 46	14 13	1 8	20 32	0 39	1 11	2 25	12 40	0 43	13 4
S 3	17 37	6s26	4 14	9 31	0 0	22 26	0 43	14 0	1 8	20 34	0 39	1 12	2 26	12 38	0 43	13 4
S 4	17 22	12 41	4 53	8 53	0s 9	22 23	0 40	13 47	1 7	20 36	0 40	1 13	2 26	12 37	0 43	13 4
M 5	17 6	18 10	5 14	8 14	0 18	22 20	0 37	13 34	1 7	20 37	0 40	1 14	2 26	12 36	0 43	13 4
T 6	16 49	22 34	5 16	7 36	0 28	22 17	0 34	13 20	1 7	20 39	0 40	1 15	2 26	12 35	0 43	13 4
W 7	16 33	25 38	4 59	6 59	0 38	22 13	0 31	13 7	1 7	20 41	0 40	1 16	2 27	12 33	0 43	13 4
T 8	16 16	27 10	4 26	6 22	0 48	22 8	0 28	12 54	1 7	20 42	0 40	1 17	2 27	12 32	0 43	13 4
F 9	15 59	27 7	3 40	5 45	0 58	22 3	0 25	12 40	1 6	20 44	0 40	1 18	2 27	12 31	0 43	13 4
S 10	15 42	25 35	2 43	5 10	1 8	21 57	0 22	12 27	1 6	20 46	0 40	1 19	2 27	12 29	0 43	13 4
S 11	15 24	22 45	1 39	4 34	1 19	21 50	0 19	12 13	1 6	20 47	0 40	1 21	2 28	12 28	0 43	13 4
M12	15 6	18 53	0 32	4 0	1 29	21 43	0 16	11 59	1 6	20 49	0 40	1 22	2 28	12 27	0 43	13 4
T 13	14 48	14 16	0n37	3 26	1 40	21 35	0 13	11 45	1 5	20 50	0 40	1 23	2 28	12 26	0 43	13 4
W14	14 30	9 9	1 42	2 54	1 50	21 26	0 10	11 31	1 5	20 52	0 41	1 24	2 28	12 24	0 43	13 4
T 15	14 11	3 46	2 42	2 22	2 1	21 17	0 7	11 17	1 5	20 53	0 41	1 26	2 28	12 23	0 43	13 4
F 16	13 53	1n42	3 35	1 51	2 12	21 7	0 4	11 3	1 5	20 55	0 41	1 27	2 29	12 22	0 43	13 4
S 17	13 34	7 5	4 18	1 22	2 22	20 57	0 1	10 49	1 4	20 56	0 41	1 29	2 29	12 20	0 43	13 4
S 18	13 14	12 11	4 50	0 54	2 33	20 46	0n 1	10 35	1 4	20 58	0 41	1 30	2 29	12 19	0 43	13 4
M19	12 55	16 53	5 10	0 27	2 43	20 34	0 4	10 21	1 4	20 59	0 41	1 32	2 29	12 18	0 43	13 4
T 20	12 35	20 57	5 16	0 2	2 54	20 22	0 7	10 6	1 4	21 0	0 41	1 33	2 29	12 16	0 43	13 3
W21	12 15	24 13	5 9	0s21	3 4	20 9	0 10	9 52	1 3	21 2	0 41	1 35	2 30	12 15	0 43	13 3
T 22	11 55	26 25	4 46	0 43	3 14	19 56	0 13	9 37	1 3	21 3	0 41	1 36	2 30	12 14	0 43	13 3
F 23	11 35	27 19	4 10	1 3	3 23	19 42	0 15	9 23	1 3	21 4	0 41	1 38	2 30	12 12	0 43	13 3
S 24	11 15	26 43	3 19	1 20	3 32	19 28	0 18	9 8	1 3	21 5	0 41	1 39	2 30	12 11	0 43	13 3
S 25	10 54	24 31	2 16	1 35	3 41	19 13	0 21	8 54	1 2	21 6	0 41	1 41	2 30	12 10	0 43	13 3
M26	10 34	20 47	1 3	1 48	3 49	18 57	0 24	8 39	1 2	21 8	0 41	1 43	2 31	12 8	0 43	13 3
T 27	10 13	15 43	0s16	1 58	3 57	18 41	0 26	8 24	1 2	21 9	0 41	1 44	2 31	12 7	0 43	13 2
W28	9 52	9 37	1 36	2 5	4 4	18 24	0 29	8 9	1 2	21 10	0 41	1 46	2 31	12 6	0 43	13 2
T 29	9 30	2 53	2 51	2 9	4 10	18 7	0 31	7 54	1 1	21 11	0 41	1 48	2 31	12 4	0 43	13 2
F 30	9 9	4s 1	3 53	2 10	4 15	17 49	0 34	7 40	1 1	21 12	0 41	1 49	2 31	12 3	0 43	13 2
S 31	8n47	10s39	4s40	2s 7	4s19	17n31	0n36	7n25	1n 1	21s13	0s41	1s51	2s31	12n 2	0n43	13n 1

Julian Day Number = 2407197.5, Delta T = -2.69 sec

Ecliptic obliquity = 23°27'25", Nutation = 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 23°02'41", Lahiri = 22°09'41"

ASTRODIENST EPHEMERIS for the year 1878
geocentric

SEPTEMBER 1878

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 40 6	8♍23'46	0♏15'54	25°R 0	14♏10	14♍11	28°R 8	1°R 6	0♍23	9°R44	26°R28	13°R 5	11♍47	6♍13	8°R30	S 1
M 2	22 44 2	9°21'54	15°23	24♍31	15°24	14°50	28♍4	1°Y 2	0°27	9♍43	26♍28	13♍3	11°43	6°20	8♍29	M 2
T 3	22 47 59	10°20'03	29°28	23°57	16°37	15°28	28° 0	0°58	0°31	9°42	26°28	13° 1	11°40	6°26	8°28	T 3
W 4	22 51 55	11°18'14	13♍10	23°16	17°50	16° 6	27°56	0°53	0°35	9°42	26°28	13°D 1	11°37	6°33	8°27	W 4
T 5	22 55 52	12°16'26	26°29	22°30	19° 4	16°45	27°53	0°49	0°38	9°41	26°28	13° 2	11°34	6°40	8°25	T 5
F 6	22 59 48	13°14'39	9♍27	21°39	20°17	17°23	27°49	0°45	0°42	9°40	26°27	13° 3	11°31	6°47	8°24	F 6
S 7	23 3 45	14°12'54	22° 8	20°44	21°31	18° 2	27°46	0°40	0°46	9°39	26°27	13° 5	11°28	6°53	8°23	S 7
S 8	23 7 41	15°11'11	4♍34	19°46	22°44	18°40	27°43	0°36	0°49	9°39	26°27	13° 6	11°24	7° 0	8°21	S 8
M 9	23 11 38	16° 9'29	16°48	18°46	23°58	19°19	27°40	0°32	0°53	9°38	26°27	13°R 6	11°21	7° 7	8°20	M 9
T 10	23 15 35	17° 7'49	28°54	17°45	25°11	19°57	27°37	0°27	0°57	9°37	26°26	13° 5	11°18	7°13	8°18	T 10
W11	23 19 31	18° 6'10	10♍53	16°45	26°25	20°36	27°35	0°23	1° 0	9°36	26°26	13° 2	11°15	7°20	8°17	W11
T 12	23 23 28	19° 4'34	22°48	15°47	27°39	21°14	27°33	0°18	1° 4	9°35	26°26	12°57	11°12	7°27	8°15	T 12
F 13	23 27 24	20° 2'59	4♍40	14°52	28°53	21°53	27°30	0°14	1° 8	9°34	26°25	12°51	11° 8	7°33	8°13	F 13
S 14	23 31 21	21° 1'26	16°30	14° 2	0♍6	22°31	27°29	0° 9	1°11	9°33	26°25	12°44	11° 5	7°40	8°11	S 14
S 15	23 35 17	21°59'55	28°22	13°17	1°20	23°10	27°27	0° 5	1°15	9°32	26°25	12°37	11° 2	7°47	8°10	S 15
M16	23 39 14	22°58'27	10♍18	12°41	2°34	23°48	27°25	29♍59	1°18	9°31	26°24	12°30	10°59	7°54	8° 8	M16
T 17	23 43 10	23°57'00	22°19	12°12	3°48	24°27	27°24	29°55	1°22	9°30	26°24	12°25	10°56	8° 0	8° 6	T 17
W18	23 47 7	24°55'36	4♏10	11°52	5° 2	25° 6	27°23	29°51	1°25	9°29	26°23	12°21	10°53	8° 7	8° 4	W18
T 19	23 51 4	25°54'13	16°34	11°41	6°16	25°44	27°22	29°46	1°29	9°28	26°23	12°18	10°49	8°14	8° 2	T 19
F 20	23 55 0	26°52'53	29°36	11°D41	7°30	26°23	27°21	29°41	1°32	9°27	26°22	12°D18	10°46	8°20	8° 0	F 20
S 21	23 58 57	27°51'36	12♍38	11°50	8°44	27° 2	27°20	29°37	1°36	9°26	26°22	12°19	10°43	8°27	7°58	S 21
S 22	0 2 53	28°50'20	26° 6	12° 9	9°59	27°41	27°20	29°32	1°39	9°24	26°21	12°20	10°40	8°34	7°56	S 22
M23	0 6 50	29°49'07	10♏2	12°37	11°13	28°19	27°20	29°27	1°43	9°23	26°21	12°R21	10°37	8°40	7°54	M23
T 24	0 10 46	0♍47'56	24°25	13°15	12°27	28°58	27°D20	29°23	1°46	9°22	26°20	12°20	10°34	8°47	7°52	T 24
W25	0 14 43	1°46'47	9♍12	14° 1	13°41	29°37	27°20	29°18	1°50	9°21	26°20	12°18	10°30	8°54	7°49	W25
T 26	0 18 39	2°45'40	24°19	14°55	14°56	0♍16	27°20	29°13	1°53	9°20	26°19	12°13	10°27	9° 1	7°47	T 26
F 27	0 22 36	3°44'35	9♍36	15°57	16°10	0°55	27°21	29° 9	1°56	9°18	26°18	12° 6	10°24	9° 7	7°45	F 27
S 28	0 26 32	4°43'33	24°52	17° 6	17°25	1°34	27°21	29° 4	2° 0	9°17	26°18	11°58	10°21	9°14	7°42	S 28
S 29	0 30 29	5°42'32	9♍57	18°21	18°39	2°13	27°22	29° 0	2° 3	9°16	26°17	11°50	10°18	9°21	7°40	S 29
M30	0 34 26	6♍41'33	24♍41	19♍41	19♍53	2♍52	27♍24	28♍55	2♍6	9♍14	26♍16	11♍43	10♍14	9♍27	7♍38	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n26	16s35	5s 7	2s 1	4s22	17n12	0n39	7n 9	1n 1	21s14	0s41	1s53	2s32	12n 1	0n43	13n 1	1s49	5n46	13s58	16s54	17s16	6n19	13n33	0s51	
M 2	8 4	21 27	5 14	1 51	4 23	16 53	0 41	6 54	1 0	21 14	0 41	1 55	2 32	11 59	0 43	13 1	1 49	5 46	13 58	16 55	17 17	6 22	13 32	0 51	
T 3	7 42	24 57	5 1	1 37	4 23	16 33	0 43	6 39	1 0	21 15	0 41	1 56	2 32	11 58	0 43	13 1	1 49	5 46	13 59	16 55	17 18	6 25	13 32	0 51	
W 4	7 20	26 53	4 32	1 20	4 22	16 13	0 46	6 24	1 0	21 16	0 42	1 58	2 32	11 57	0 43	13 0	1 49	5 45	13 59	16 55	17 19	6 28	13 31	0 51	
T 5	6 58	27 13	3 48	0 59	4 18	15 53	0 48	6 9	0 59	21 17	0 42	2 0	2 32	11 55	0 43	13 0	1 49	5 45	13 59	16 55	17 20	6 32	13 31	0 51	
F 6	6 35	26 1	2 54	0 34	4 13	15 32	0 50	5 54	0 59	21 17	0 42	2 2	2 32	11 54	0 43	13 0	1 49	5 45	13 59	16 55	17 21	6 35	13 30	0 52	
S 7	6 13	23 29	1 52	0 6	4 6	15 10	0 52	5 38	0 59	21 18	0 42	2 4	2 32	11 53	0 43	13 0	1 49	5 44	14 0	16 54	17 21	6 38	13 30	0 52	
S 8	5 50	19 53	0 47	0n26	3 56	14 48	0 54	5 23	0 59	21 19	0 42	2 5	2 32	11 51	0 43	12 59	1 49	5 44	14 0	16 54	17 22	6 41	13 29	0 52	
M 9	5 28	15 29	0n20	0 59	3 45	14 26	0 56	5 8	0 58	21 19	0 42	2 7	2 33	11 50	0 43	12 59	1 49	5 44	14 0	16 54	17 23	6 44	13 28	0 52	
T 10	5 5	10 32	1 25	1 35	3 32	14 3	0 58	4 52	0 58	21 20	0 42	2 9	2 33	11 49	0 43	12 59	1 49	5 44	14 0	16 54	17 24	6 47	13 28	0 52	
W11	4 42	5 15	2 26	2 12	3 18	13 40	1 0	4 37	0 58	21 20	0 42	2 11	2 33	11 48	0 43	12 58	1 49	5 43	14 1	16 55	17 25	6 50	13 27	0 52	
T 12	4 20	0n11	3 19	2 49	3 2	13 16	1 2	4 21	0 57	21 21	0 42	2 13	2 33	11 46	0 43	12 58	1 49	5 43	14 1	16 56	17 26	6 53	13 26	0 52	
F 13	3 57	5 35	4 4	3 27	2 44	12 52	1 4	4 6	0 57	21 21	0 42	2 15	2 33	11 45	0 43	12 58	1 49	5 43	14 1	16 58	17 27	6 56	13 26	0 52	
S 14	3 34	10 46	4 38	4 3	2 26	12 28	1 6	3 50	0 57	21 22	0 42	2 17	2 33	11 44	0 43	12 57	1 49	5 42	14 1	17 0	17 28	7 0	13 25	0 53	
S 15	3 11	15 34	5 0	4 38	2 6	12 3	1 7	3 35	0 56	21 22	0 42	2 19	2 33	11 42	0 43	12 57	1 49	5 42	14 2	17 2	17 28	7 3	13 24	0 53	
M16	2 47	19 48	5 9	5 10	1 46	11 38	1 9	3 19	0 56	21 22	0 42	2 21	2 33	11 41	0 43	12 57	1 49	5 42	14 2	17 4	17 29	7 6	13 24	0 53	
T 17	2 24	23 16	5 5	5 39	1 27	11 13	1 11	3 4	0 56	21 23	0 42	2 22	2 33	11 40	0 43	12 56	1 49	5 41	14 2	17 6	17 30	7 9	13 23	0 53	
W18	2 1	25 45	4 47	6 5	1 7	10 47	1 12	2 48	0 55	21 23	0 42	2 24	2 33	11 39	0 43	12 56	1 49	5 41	14 2	17 7	17 31	7 12	13 22	0 53	
T 19	1 38	27 2	4 15	6 27	0 47	10 21	1 14	2 32	0 55	21 23	0 42	2 26	2 33	11 37	0 43	12 55	1 49	5 41	14 3	17 7	17 32	7 15	13 21	0 53	
F 20	1 14	26 58	3 30	6 45	0 29	9 55	1 15	2 17	0 55	21 23	0 42	2 28	2 33	11 36	0 43	12 55	1 50	5 40	14 3	17 7	17 33	7 18	13 21	0 53	
S 21	0 51	25 24	2 33	6 58	0 11	9 29	1 16	2 1	0 55	21 23	0 42	2 30	2 33	11 35	0 43	12 55	1 50	5 40	14 3	17 7	17 34	7 21	13 20	0 53	
S 22	0 28	22 22	1 27	7 6	0n 6	9 2	1 18	1 45	0 54	21 23	0 42	2 32	2 34	11 34	0 43	12 54	1 50	5 40	14 3	17 7	17 34	7 24	13 19	0 54	
M23	0 4	17 57	0 13	7 10	0 22	8 35	1 19	1 29	0 54	21 23	0 42	2 34	2 34	11 33	0 43	12 54	1 50	5 39	14 4	17 7	17 35	7 27	13 18	0 54	
T 24	0s19	12 23	1s 5	7 9	0 37	8 7	1 20	1 14	0 54	21 23	0 42	2 36	2 34	11 31	0 43	12 53	1 50	5 39	14 4	17 7	17 36	7 30	13 18	0 54	
W25	0 43	5 58	2 19	7 4	0 50	7 40	1 21	0 58	0 53	21 23	0 42	2 38	2 34	11 30	0 43	12 53	1 50	5 39	14 4	17 7	17 37	7 33	13 17	0 54	
T 26	1 6	0s54	3 26	6 54	1 2	7 12	1 22	0 42	0 53	21 23	0 42	2 39	2 34	11 29	0 43	12 53	1 50	5 38	14 4	17 9	17 38	7 37	13 16	0 54	
F 27	1 29	7 46	4 19	6 40	1 13	6 44	1 23	0 26	0 53	21 23	0 42	2 41	2 34	11 28	0 43	12 52	1 50	5 38	14 4	17 11	17 39	7 40	13 15	0 54	
S 28	1 53	14 10	4 53	6 22	1 23	6 16	1 24	0 11	0 52	21 23	0 42	2 43	2 34	11 27	0 43	12 52	1 50	5 38	14 5	17 13	17 40	7 43	13 14	0 54	
S 29	2 16	19 38	5 6	6 0	1 31	5 47	1 25	0s 5	0 52	21 23	0 42	2 45	2 34	11 26	0 43	12 51	1 50	5 37	14 5	17 15	17 40	7 46	13 13	0 54	
M30	2s40	23s46	4s58	5n35	1n38	5n19	1n25	0s21	0n51	21s23	0s41	2s47	2s34	11n24	0n43	12n51	1s50	5n37	14s 5	17s17	17s41	7n49	13n12	0s55	

ASTRODIENST EPHEMERIS for the year 1878
geocentric

OCTOBER 1878

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	0 38 22	7♌40'36	8♊58	21♍6	21♍8	3♌31	27♎25	28°R50	2♍9	9°R13	26°R16	11°R37	10♋11	9♍34	7°R35	T 1
W 2	0 42 19	8°39'41	22°47	22°35	22°23	4°10	27°26	28♋46	2°13	9♌12	26♎15	11♋34	10° 8	9°41	7♎33	W 2
T 3	0 46 15	9°38'47	6♎7	24° 8	23°37	4°49	27°28	28°41	2°16	9°10	26°14	11°D33	10° 5	9°48	7°30	T 3
F 4	0 50 12	10°37'55	19° 2	25°43	24°52	5°28	27°30	28°37	2°19	9° 9	26°14	11°33	10° 2	9°54	7°28	F 4
S 5	0 54 8	11°37'05	1♋36	27°21	26° 6	6° 7	27°32	28°32	2°22	9° 7	26°13	11°34	9°59	10° 1	7°25	S 5
S 6	0 58 5	12°36'17	13°53	29° 1	27°21	6°46	27°35	28°28	2°25	9° 6	26°12	11°R34	9°55	10° 8	7°22	S 6
M 7	1 2 2	13°35'30	25°58	0♌43	28°36	7°25	27°37	28°23	2°28	9° 4	26°11	11°33	9°52	10°14	7°20	M 7
T 8	1 5 58	14°34'46	7♋56	2°25	29°50	8° 4	27°40	28°19	2°31	9° 3	26°11	11°30	9°49	10°21	7°17	T 8
W 9	1 9 55	15°34'03	19°48	4° 9	1♌5	8°43	27°43	28°15	2°34	9° 1	26°10	11°24	9°46	10°28	7°14	W 9
T 10	1 13 51	16°33'22	1♍39	5°53	2°20	9°22	27°46	28°10	2°37	9° 0	26° 9	11°15	9°43	10°34	7°12	T 10
F 11	1 17 48	17°32'43	13°30	7°37	3°35	10° 2	27°49	28° 6	2°40	8°58	26° 8	11° 4	9°40	10°41	7° 9	F 11
S 12	1 21 44	18°32'06	25°24	9°22	4°49	10°41	27°53	28° 2	2°43	8°57	26° 7	10°51	9°36	10°48	7° 6	S 12
S 13	1 25 41	19°31'31	7♎20	11° 6	6° 4	11°20	27°56	27°58	2°46	8°55	26° 6	10°38	9°33	10°55	7° 3	S 13
M14	1 29 37	20°30'58	19°21	12°51	7°19	11°59	28° 0	27°54	2°49	8°54	26° 6	10°26	9°30	11° 1	7° 0	M14
T 15	1 33 34	21°30'28	1♌29	14°35	8°34	12°39	28° 4	27°49	2°52	8°52	26° 5	10°15	9°27	11° 8	6°58	T 15
W16	1 37 30	22°29'59	13°44	16°19	9°49	13°18	28° 8	27°45	2°54	8°50	26° 4	10° 6	9°24	11°15	6°55	W16
T 17	1 41 27	23°29'33	26°11	18° 3	11° 4	13°57	28°13	27°41	2°57	8°49	26° 3	10° 1	9°20	11°21	6°52	T 17
F 18	1 45 24	24°29'10	8♎52	19°46	12°19	14°37	28°17	27°38	3° 0	8°47	26° 2	9°58	9°17	11°28	6°49	F 18
S 19	1 49 20	25°28'48	21°50	21°28	13°34	15°16	28°22	27°34	3° 2	8°46	26° 1	9°D57	9°14	11°35	6°46	S 19
S 20	1 53 17	26°28'29	5♌10	23°11	14°49	15°56	28°27	27°30	3° 5	8°44	26° 0	9°R57	9°11	11°41	6°43	S 20
M21	1 57 13	27°28'12	18°54	24°52	16° 4	16°35	28°32	27°26	3° 8	8°42	25°59	9°56	9° 8	11°48	6°40	M21
T 22	2 1 10	28°27'58	3♍4	26°33	17°19	17°15	28°37	27°23	3°10	8°41	25°58	9°55	9° 5	11°55	6°37	T 22
W23	2 5 6	29°27'45	17°39	28°14	18°34	17°54	28°42	27°19	3°13	8°39	25°57	9°51	9° 1	12° 2	6°34	W23
T 24	2 9 3	0♌27'35	2♌36	29°54	19°49	18°34	28°48	27°15	3°15	8°37	25°56	9°44	8°58	12° 8	6°31	T 24
F 25	2 12 59	1°27'27	17°48	1♌33	21° 5	19°13	28°54	27°12	3°17	8°36	25°55	9°35	8°55	12°15	6°28	F 25
S 26	2 16 56	2°27'21	3♌4	3°12	22°20	19°53	29° 0	27° 9	3°20	8°34	25°54	9°23	8°52	12°22	6°25	S 26
S 27	2 20 53	3°27'16	18°13	4°51	23°35	20°33	29° 6	27° 5	3°22	8°32	25°53	9°12	8°49	12°28	6°22	S 27
M28	2 24 49	4°27'14	3♊4	6°28	24°50	21°12	29°12	27° 2	3°24	8°31	25°52	9° 1	8°45	12°35	6°19	M28
T 29	2 28 46	5°27'14	17°31	8° 6	26° 5	21°52	29°19	26°59	3°27	8°29	25°51	8°53	8°42	12°42	6°16	T 29
W30	2 32 42	6°27'15	1♎28	9°43	27°20	22°32	29°25	26°56	3°29	8°27	25°50	8°47	8°39	12°49	6°13	W30
T 31	2 36 39	7♌27'18	14♎55	11♌19	28♌36	23♌12	29♎32	26♋53	3♍31	8♎26	25♎49	8♋43	8♋36	12♍55	6♎10	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
T 1	3s 3	26s17	4s32	5n 7	1n43	4n50	1n26	0s37	0n51	21s22	0s41	2s49	2s34	11n23	0n43	12n50	1s50	5n37	14s 5	17s19	17s42	7n52	13n11	0s55	
W 2	3 26	27 6	3 51	4 36	1 48	4 21	1 27	0 53	0 51	21 22	0 41	2 50	2 34	11 22	0 43	12 50	1 50	5 36	14 5	17 20	17 43	7 55	13 10	0 55	
T 3	3 49	26 17	2 58	4 2	1 52	3 52	1 27	1 8	0 50	21 22	0 41	2 52	2 34	11 21	0 43	12 49	1 50	5 36	14 6	17 20	17 44	7 58	13 10	0 55	
F 4	4 13	24 3	1 58	3 27	1 54	3 23	1 28	1 24	0 50	21 21	0 41	2 54	2 34	11 20	0 43	12 49	1 50	5 36	14 6	17 20	17 45	8 1	13 9	0 55	
S 5	4 36	20 41	0 53	2 49	1 56	2 54	1 28	1 40	0 50	21 21	0 41	2 56	2 34	11 19	0 43	12 48	1 50	5 35	14 6	17 20	17 46	8 4	13 8	0 55	
S 6	4 59	16 28	0n12	2 10	1 56	2 24	1 28	1 56	0 49	21 20	0 41	2 58	2 34	11 18	0 43	12 48	1 50	5 35	14 6	17 20	17 46	8 7	13 7	0 55	
M 7	5 22	11 41	1 16	1 29	1 56	1 55	1 29	2 12	0 49	21 20	0 41	2 59	2 33	11 17	0 43	12 47	1 50	5 35	14 6	17 20	17 47	8 10	13 6	0 55	
T 8	5 45	6 30	2 16	0 48	1 55	1 25	1 29	2 27	0 49	21 19	0 41	3 1	2 33	11 16	0 43	12 47	1 50	5 34	14 6	17 21	17 48	8 13	13 5	0 55	
W 9	6 8	1 9	3 9	0 5	1 53	0 56	1 29	2 43	0 48	21 19	0 41	3 3	2 33	11 14	0 43	12 46	1 50	5 34	14 7	17 22	17 49	8 16	13 4	0 56	
T 10	6 31	4n14	3 53	0s38	1 51	0 26	1 29	2 59	0 48	21 18	0 41	3 4	2 33	11 13	0 43	12 46	1 50	5 34	14 7	17 25	17 50	8 19	13 3	0 56	
F 11	6 54	9 27	4 28	1 22	1 48	0s 4	1 29	3 15	0 47	21 17	0 41	3 6	2 33	11 12	0 44	12 45	1 50	5 33	14 7	17 28	17 51	8 22	13 2	0 56	
S 12	7 16	14 20	4 51	2 6	1 45	0 34	1 29	3 30	0 47	21 17	0 41	3 8	2 33	11 11	0 44	12 45	1 50	5 33	14 7	17 31	17 52	8 25	13 1	0 56	
S 13	7 39	18 42	5 1	2 51	1 41	1 3	1 29	3 46	0 47	21 16	0 41	3 9	2 33	11 10	0 44	12 44	1 50	5 33	14 7	17 35	17 52	8 28	13 0	0 56	
M14	8 1	22 21	4 58	3 35	1 37	1 33	1 28	4 2	0 46	21 15	0 41	3 11	2 33	11 9	0 44	12 44	1 50	5 32	14 7	17 38	17 53	8 31	12 59	0 56	
T 15	8 23	25 3	4 41	4 20	1 32	2 3	1 28	4 18	0 46	21 14	0 41	3 12	2 33	11 8	0 44	12 43	1 50	5 32	14 7	17 41	17 54	8 35	12 58	0 56	
W16	8 46	26 38	4 42	5 5	1 27	2 33	1 28	4 33	0 46	21 13	0 41	3 14	2 33	11 7	0 44	12 43	1 50	5 32	14 8	17 44	17 55	8 38	12 57	0 56	
T 17	9 8	26 54	3 30	5 49	1 22	3 3	1 27	4 49	0 45	21 12	0 41	3 15	2 33	11 6	0 44	12 42	1 50	5 31	14 8	17 45	17 56	8 41	12 56	0 56	
F 18	9 30	25 46	2 37	6 33	1 17	3 32	1 27	5 5	0 45	21 11	0 41	3 17	2 33	11 6	0 44	12 42	1 50	5 31	14 8	17 46	17 57	8 44	12 55	0 56	
S 19	9 52	23 14	1 34	7 17	1 11	4 2	1 26	5 20	0 44	21 10	0 41	3 18	2 33	11 5	0 44	12 41	1 50	5 31	14 8	17 46	17 57	8 47	12 54	0 57	
S 20	10 13	19 24	0 25	8 0	1 5	4 31	1 26	5 36	0 44	21 9	0 41	3 20	2 32	11 4	0 44	12 41	1 50	5 30	14 8	17 46	17 58	8 50	12 53	0 57	
M21	10 35	14 25	0s47	8 43	0 59	5 1	1 25	5 51	0 44	21 8	0 41	3 21	2 32	11 3	0 44	12 40	1 50	5 30	14 8	17 46	17 59	8 53	12 51	0 57	
T 22	10 56	8 32	1 59	9 26	0 53	5 30	1 24	6 7	0 43	21 7	0 41	3 22	2 32	11 2	0 44	12 40	1 50	5 30	14 8	17 47	18 0	8 56	12 50	0 57	
W23	11 17	2 2	3 5	10 8	0 47	6 0	1 24	6 22	0 43	21 6	0 41	3 24	2 32	11 1	0 44	12 39	1 50	5 29	14 8	17 48	18 1	8 59	12 49	0 57	
T 24	11 38	4s43	4 0	10 49	0 40	6 29	1 23	6 38	0 42	21 5	0 41	3 25	2 32	11 0	0 44	12 39	1 50	5 29	14 9	17 50	18 2	9 2	12 48	0 57	
F 25	11 59	11 17	4 39	11 30	0 34	6 58	1 22	6 53	0 42	21 4	0 41	3 26	2 32	10 59	0 44	12 38	1 50	5 29	14 9	17 52	18 3	9 5	12 47	0 57	
S 26	12 20	17 13	4 58	12 10	0 27	7 27	1 21	7 8	0 42	21 3	0 41	3 27	2 32	10 59	0 44	12 37	1 50	5 29	14 9	17 55	18 3	9 8	12 46	0 57	
S 27	12 41	22 0	4 57	12 50	0 20	7 56	1 20	7 24	0 41	21 1	0 41	3 29	2 32	10 58	0 44	12 37	1 50	5 28	14 9	17 58	18 4	9 11	12 45	0 57	
M28	13 1	25 16	4 35	13 29	0 14	8 24	1 19	7 39	0 41	21 0	0 41	3 30	2 31	10 57	0 44	12 36	1 50	5 28	14 9	18 1	18 5	9 14	12 44	0 57	
T 29	13 21	26 46	3 55	14 7	0 7	8 53	1 17	7 54	0 40	20 59	0 41	3 31	2 31	10 56	0 44	12 36	1 50	5 28	14 9	18 3	18 6	9 17	12 43	0 58	
W30	13 41	26 30	3 3	14 44	0 0	9 21	1 16	8 9	0 40	20 57	0 41	3 32	2 31	10 55	0 44	12 35	1 50	5 27	14 9	18 5	18 7	9 12	12 42	0 58	
T 31	14s 1	24s39	2s 2	15s21	0s 7	9s49	1n15	8s25	0n39	20s56	0s41	3s33	2s31	10n55	0n44	12n35	1s50	5n27	14s 9	18s 6	18s 8	9n23	12n41	0s58	

ASTRODIENST EPHEMERIS for the year 1878
geocentric

NOVEMBER 1878

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 40 35	8♉27°23	27♊54	12♈55	29♊51	23♊51	29♊39	26°R50	3♉33	8°R24	25°R48	8°R42	8♉33	13°V 2	6°R 7	F 1
S 2	2 44 32	9°27'29	10♈29	14°31	1♈ 6	24°31	29°46	26°K47	3°35	8♉22	25°K47	8♉42	8°30	13° 9	6♉ 4	S 2
S 3	2 48 28	10°27'36	22°45	16° 6	2°21	25°11	29°53	26°45	3°37	8°20	25°46	8°42	8°26	13°15	6° 1	S 3
M 4	2 52 25	11°27'45	4♈48	17°40	3°37	25°51	0♈ 0	26°42	3°39	8°19	25°45	8°40	8°23	13°22	5°58	M 4
T 5	2 56 22	12°27'56	16°42	19°15	4°52	26°31	0° 8	26°39	3°41	8°17	25°43	8°36	8°20	13°29	5°55	T 5
W 6	3 0 18	13°28'08	28°33	20°48	6° 7	27°11	0°16	26°37	3°43	8°15	25°42	8°30	8°17	13°36	5°53	W 6
T 7	3 4 15	14°28'22	10♈23	22°22	7°23	27°51	0°23	26°35	3°45	8°14	25°41	8°20	8°14	13°42	5°50	T 7
F 8	3 8 11	15°28'37	22°16	23°55	8°38	28°31	0°31	26°32	3°46	8°12	25°40	8° 8	8°11	13°49	5°47	F 8
S 9	3 12 8	16°28'54	4♉14	25°28	9°53	29°11	0°39	26°30	3°48	8°10	25°39	7°54	8° 7	13°56	5°44	S 9
S 10	3 16 4	17°29'13	16°18	27° 0	11° 9	29°51	0°48	26°28	3°50	8° 9	25°38	7°39	8° 4	14° 2	5°41	S 10
M 11	3 20 1	18°29'33	28°29	28°33	12°24	0♈31	0°56	26°26	3°51	8° 7	25°37	7°25	8° 1	14° 9	5°38	M 11
T 12	3 23 57	19°29'56	10♈49	0♈ 5	13°39	1°11	1° 5	26°24	3°53	8° 5	25°36	7°13	7°58	14°16	5°35	T 12
W 13	3 27 54	20°30'20	23°17	1°36	14°55	1°51	1°13	26°22	3°54	8° 4	25°35	7° 4	7°55	14°23	5°32	W 13
T 14	3 31 51	21°30'45	5♈55	3° 7	16°10	2°31	1°22	26°21	3°56	8° 2	25°33	6°57	7°51	14°29	5°29	T 14
F 15	3 35 47	22°31'13	18°45	4°39	17°25	3°11	1°31	26°19	3°57	8° 1	25°32	6°54	7°48	14°36	5°26	F 15
S 16	3 39 44	23°31'42	1♈48	6° 9	18°41	3°52	1°40	26°18	3°59	7°59	25°31	6°D52	7°45	14°43	5°24	S 16
S 17	3 43 40	24°32'14	15° 7	7°40	19°56	4°32	1°49	26°16	4° 0	7°57	25°30	6°52	7°42	14°49	5°21	S 17
M 18	3 47 37	25°32'47	28°45	9°10	21°12	5°12	1°59	26°15	4° 1	7°56	25°29	6°R52	7°39	14°56	5°18	M 18
T 19	3 51 33	26°33'21	12♈43	10°40	22°27	5°52	2° 8	26°14	4° 2	7°54	25°28	6°51	7°36	15° 3	5°15	T 19
W 20	3 55 30	27°33'58	27° 1	12° 9	23°43	6°33	2°18	26°13	4° 3	7°53	25°27	6°48	7°32	15° 9	5°13	W 20
T 21	3 59 26	28°34'36	11♈37	13°38	24°58	7°13	2°27	26°12	4° 5	7°51	25°26	6°42	7°29	15°16	5°10	T 21
F 22	4 3 23	29°35'16	26°28	15° 7	26°13	7°54	2°37	26°11	4° 6	7°49	25°24	6°34	7°26	15°23	5° 7	F 22
S 23	4 7 20	0♈35°58	11♈25	16°35	27°29	8°34	2°47	26°10	4° 7	7°48	25°23	6°24	7°23	15°30	5° 5	S 23
S 24	4 11 16	1°36'41	26°20	18° 3	28°44	9°15	2°57	26°10	4° 7	7°46	25°22	6°14	7°20	15°36	5° 2	S 24
M 25	4 15 13	2°37'25	11♈ 3	19°30	29°59	9°55	3° 7	26° 9	4° 8	7°45	25°21	6° 4	7°17	15°43	4°59	M 25
T 26	4 19 9	3°38'11	25°27	20°56	1♈15	10°36	3°17	26° 9	4° 9	7°43	25°20	5°56	7°13	15°50	4°57	T 26
W 27	4 23 6	4°38'59	9♈25	22°22	2°31	11°16	3°28	26° 8	4°10	7°42	25°19	5°50	7°10	15°56	4°54	W 27
T 28	4 27 2	5°39'47	22°56	23°47	3°46	11°57	3°38	26° 8	4°11	7°40	25°18	5°47	7° 7	16° 3	4°52	T 28
F 29	4 30 59	6°40'36	6♈ 1	25°11	5° 2	12°38	3°49	26°D 8	4°11	7°39	25°17	5°D46	7° 4	16°10	4°49	F 29
S 30	4 34 56	7♈41°26	18♈41	26♈34	6♈17	13♈18	4♈ 0	26°K 8	4♈12	7♈38	25°K16	5♈47	7♈ 1	16°V17	4♈47	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s20	21s32	0s57	15s56	0s13	10s17	1n14	8s40	0n39	20s54	0s41	3s34	2s31	10n54	0n44	12n34	1s50	5n27	14s 9	18s 6	18s 8	9n26	12n40	0s58			
S 2	14 39	17 28	0n 9	16 31	0 20	10 44	1 12	8 55	0 39	20 53	0 41	3 35	2 31	10 53	0 44	12 34	1 50	5 26	14 9	18 6	18 9	9 29	12 39	0 58			
S 3	14 58	12 47	1 14	17 6	0 27	11 12	1 11	9 10	0 38	20 51	0 41	3 36	2 31	10 53	0 44	12 33	1 50	5 26	14 9	18 6	18 10	9 32	12 38	0 58			
M 4	15 17	7 41	2 13	17 39	0 33	11 39	1 9	9 25	0 38	20 50	0 41	3 37	2 30	10 52	0 44	12 33	1 50	5 26	14 9	18 6	18 11	9 34	12 37	0 58			
T 5	15 35	2 23	3 6	18 11	0 40	12 5	1 8	9 39	0 37	20 48	0 41	3 38	2 30	10 51	0 44	12 32	1 50	5 26	14 9	18 7	18 12	9 37	12 35	0 58			
W 6	15 54	2n57	3 51	18 43	0 46	12 32	1 6	9 54	0 37	20 46	0 41	3 38	2 30	10 51	0 44	12 32	1 50	5 25	14 9	18 9	18 12	9 40	12 34	0 58			
T 7	16 12	8 11	4 25	19 13	0 53	12 58	1 4	10 9	0 36	20 45	0 41	3 39	2 30	10 50	0 44	12 31	1 50	5 25	14 9	18 12	18 13	9 43	12 33	0 58			
F 8	16 29	13 8	4 48	19 43	0 59	13 24	1 3	10 24	0 36	20 43	0 41	3 40	2 30	10 49	0 45	12 30	1 50	5 25	14 10	18 15	18 14	9 46	12 32	0 58			
S 9	16 47	17 37	4 59	20 12	1 5	13 49	1 1	10 38	0 35	20 41	0 41	3 41	2 29	10 49	0 45	12 30	1 50	5 25	14 10	18 18	18 15	9 49	12 31	0 58			
S 10	17 4	21 27	4 56	20 39	1 11	14 15	0 59	10 53	0 35	20 39	0 41	3 41	2 29	10 48	0 45	12 29	1 50	5 24	14 10	18 22	18 16	9 52	12 30	0 59			
M11	17 21	24 23	4 40	21 6	1 17	14 39	0 57	11 7	0 34	20 37	0 41	3 42	2 29	10 48	0 45	12 29	1 50	5 24	14 10	18 26	18 17	9 55	12 29	0 59			
T 12	17 37	26 13	4 10	21 32	1 23	15 4	0 56	11 22	0 34	20 36	0 41	3 42	2 29	10 47	0 45	12 28	1 50	5 24	14 10	18 29	18 17	9 58	12 28	0 59			
W13	17 53	26 46	3 29	21 56	1 28	15 28	0 54	11 36	0 33	20 34	0 41	3 43	2 29	10 47	0 45	12 28	1 50	5 24	14 10	18 31	18 18	10 1	12 27	0 59			
T 14	18 9	25 55	2 36	22 20	1 34	15 52	0 52	11 50	0 33	20 32	0 40	3 43	2 28	10 46	0 45	12 27	1 50	5 23	14 10	18 33	18 19	10 4	12 26	0 59			
F 15	18 25	23 42	1 34	22 42	1 39	16 15	0 50	12 5	0 33	20 30	0 40	3 44	2 28	10 46	0 45	12 27	1 50	5 23	14 10	18 34	18 20	10 7	12 25	0 59			
S 16	18 40	20 13	0 27	23 3	1 44	16 38	0 48	12 19	0 32	20 28	0 40	3 44	2 28	10 45	0 45	12 26	1 50	5 23	14 10	18 34	18 21	10 10	12 24	0 59			
S 17	18 55	15 37	0s44	23 24	1 49	17 0	0 46	12 33	0 32	20 26	0 40	3 45	2 28	10 45	0 45	12 26	1 50	5 23	14 10	18 34	18 21	10 13	12 23	0 59			
M18	19 10	10 9	1 53	23 43	1 53	17 22	0 44	12 47	0 31	20 23	0 40	3 45	2 28	10 44	0 45	12 25	1 50	5 22	14 9	18 34	18 22	10 16	12 22	0 59			
T 19	19 24	4 3	2 58	24 0	1 58	17 44	0 42	13 1	0 31	20 21	0 40	3 45	2 27	10 44	0 45	12 25	1 50	5 22	14 9	18 34	18 23	10 19	12 21	0 59			
W20	19 38	2s23	3 53	24 17	2 2	18 5	0 39	13 14	0 30	20 19	0 40	3 45	2 27	10 44	0 45	12 24	1 50	5 22	14 9	18 35	18 24	10 22	12 20	0 59			
T 21	19 51	8 48	4 34	24 32	2 6	18 25	0 37	13 28	0 30	20 17	0 40	3 46	2 27	10 43	0 45	12 24	1 50	5 22	14 9	18 37	18 25	10 25	12 19	0 59			
F 22	20 5	14 50	4 58	24 46	2 9	18 45	0 35	13 42	0 29	20 15	0 40	3 46	2 27	10 43	0 45	12 23	1 50	5 22	14 9	18 39	18 26	10 27	12 18	0 59			
S 23	20 17	20 2	5 1	24 59	2 13	19 5	0 33	13 55	0 29	20 12	0 40	3 46	2 27	10 43	0 45	12 23	1 50	5 21	14 9	18 41	18 26	10 30	12 17	0 59			
S 24	20 30	23 57	4 44	25 10	2 16	19 24	0 31	14 8	0 28	20 10	0 40	3 46	2 26	10 42	0 45	12 22	1 50	5 21	14 9	18 44	18 27	10 33	12 16	1 0			
M25	20 42	26 13	4 9	25 20	2 18	19 42	0 28	14 22	0 28	20 8	0 40	3 46	2 26	10 42	0 45	12 22	1 50	5 21	14 9	18 46	18 28	10 36	12 16	1 0			
T 26	20 54	26 40	3 18	25 29	2 20	20 0	0 26	14 35	0 27	20 5	0 40	3 46	2 26	10 42	0 45	12 22	1 50	5 21	14 9	18 48	18 29	10 39	12 15	1 0			
W27	21 5	25 23	2 16	25 36	2 22	20 17	0 24	14 48	0 27	20 3	0 40	3 46	2 26	10 42	0 45	12 21	1 50	5 21	14 9	18 50	18 30	10 42	12 14	1 0			
T 28	21 16	22 37	1 8	25 42	2 23	20 34	0 21	15 1	0 26	20 0	0 40	3 46	2 26	10 41	0 45	12 21	1 50	5 20	14 9	18 50	18 30	10 45	12 13	1 0			
F 29	21 26	18 46	0n 1	25 46	2 24	20 50	0 19	15 14	0 25	19 58	0 40	3 46	2 25	10 41	0 45	12 20	1 50	5 20	14 9	18 50	18 31	10 48	12 12	1 0			
S 30	21s36	14s 9	1n 9	25s49	2s25	21s 6	0n17	15s27	0n25	19s55	0s40	3s45	2s25	10n41	0n45	12n20	1s50	5n20	14s 9	18s50	18s32	10n51	12n11	1s 0			

ASTRODIENST EPHEMERIS for the year 1878

geocentric

DECEMBER 1878

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 52	8°42'17	1°11	27°56	7°33	13°59	4°11	26°8	4°12	7°36	25°14	5°48	6°57	16°23	4°45	S 1
M 2	4 42 49	9°43'08	13° 6	29°16	8°48	14°40	4°22	26° 8	4°13	7°35	25°13	5°48	6°54	16°30	4°42	M 2
T 3	4 46 45	10°44'01	25° 1	0°35	10° 4	15°20	4°33	26° 9	4°13	7°34	25°12	5°47	6°51	16°37	4°40	T 3
W 4	4 50 42	11°44'54	6°52	1°52	11°19	16° 1	4°44	26° 9	4°14	7°32	25°11	5°43	6°48	16°44	4°38	W 4
T 5	4 54 38	12°45'48	18°44	3° 6	12°35	16°42	4°55	26°10	4°14	7°31	25°10	5°37	6°45	16°50	4°36	T 5
F 6	4 58 35	13°46'43	0°39	4°18	13°50	17°23	5° 6	26°10	4°14	7°30	25° 9	5°30	6°42	16°57	4°33	F 6
S 7	5 2 31	14°47'39	12°41	5°27	15° 6	18° 4	5°18	26°11	4°14	7°28	25° 8	5°20	6°38	17° 4	4°31	S 7
S 8	5 6 28	15°48'36	24°54	6°33	16°21	18°45	5°29	26°12	4°14	7°27	25° 7	5°10	6°35	17°10	4°29	S 8
M 9	5 10 25	16°49'33	7°17	7°34	17°37	19°26	5°41	26°13	4°14	7°26	25° 6	5° 1	6°32	17°17	4°27	M 9
T 10	5 14 21	17°50'32	19°52	8°31	18°52	20° 7	5°53	26°14	4°14	7°25	25° 5	4°53	6°29	17°24	4°25	T 10
W 11	5 18 18	18°51'31	2°38	9°23	20° 8	20°48	6° 4	26°15	4°14	7°23	25° 4	4°46	6°26	17°31	4°23	W 11
T 12	5 22 14	19°52'31	15°36	10° 9	21°23	21°29	6°16	26°17	4°14	7°22	25° 3	4°42	6°23	17°37	4°21	T 12
F 13	5 26 11	20°53'32	28°46	10°48	22°39	22°10	6°28	26°18	4°14	7°21	25° 2	4°D40	6°19	17°44	4°19	F 13
S 14	5 30 7	21°54'34	12° 6	11°20	23°54	22°51	6°40	26°19	4°14	7°20	25° 1	4°40	6°16	17°51	4°18	S 14
S 15	5 34 4	22°55'37	25°38	11°43	25°10	23°32	6°52	26°21	4°14	7°19	25° 0	4°42	6°13	17°57	4°16	S 15
M 16	5 38 0	23°56'40	9°22	11°56	26°25	24°13	7° 5	26°23	4°13	7°18	24°59	4°43	6°10	18° 4	4°14	M 16
T 17	5 41 57	24°57'45	23°18	12°R 0	27°40	24°54	7°17	26°25	4°13	7°17	24°58	4°R44	6° 7	18°11	4°13	T 17
W 18	5 45 54	25°58'50	7°26	11°53	28°56	25°35	7°29	26°27	4°13	7°16	24°57	4°43	6° 3	18°18	4°11	W 18
T 19	5 49 50	26°59'57	21°44	11°34	0°11	26°17	7°42	26°29	4°12	7°15	24°56	4°41	6° 0	18°24	4° 9	T 19
F 20	5 53 47	28° 1'04	6°10	11° 3	1°27	26°58	7°54	26°31	4°12	7°14	24°55	4°37	5°57	18°31	4° 8	F 20
S 21	5 57 43	29° 2'12	20°39	10°21	2°42	27°39	8° 7	26°33	4°11	7°13	24°54	4°32	5°54	18°38	4° 7	S 21
S 22	6 1 40	0°3 3'21	5° 6	9°28	3°58	28°21	8°19	26°35	4°10	7°12	24°53	4°26	5°51	18°44	4° 5	S 22
M 23	6 5 36	1° 4'30	19°25	8°25	5°13	29° 2	8°32	26°38	4°10	7°11	24°52	4°21	5°48	18°51	4° 4	M 23
T 24	6 9 33	2° 5'40	3°29	7°13	6°29	29°44	8°45	26°40	4° 9	7°11	24°52	4°16	5°44	18°58	4° 3	T 24
W 25	6 13 29	3° 6'50	17°16	5°56	7°44	0°25	8°58	26°43	4° 8	7°10	24°51	4°14	5°41	19° 5	4° 1	W 25
T 26	6 17 26	4° 8'00	0°41	4°34	9° 0	1° 7	9°11	26°46	4° 7	7° 9	24°50	4°D12	5°38	19°11	4° 0	T 26
F 27	6 21 23	5° 9'10	13°43	3°12	10°15	1°48	9°24	26°49	4° 6	7° 8	24°49	4°13	5°35	19°18	3°59	F 27
S 28	6 25 19	6°10'21	26°25	1°52	11°31	2°30	9°37	26°52	4° 5	7° 8	24°48	4°14	5°32	19°25	3°58	S 28
S 29	6 29 16	7°11'31	8°48	0°36	12°46	3°11	9°50	26°55	4° 4	7° 7	24°47	4°16	5°29	19°31	3°57	S 29
M 30	6 33 12	8°12'41	20°57	29°26	14° 2	3°53	10° 3	26°58	4° 3	7° 6	24°47	4°18	5°25	19°38	3°56	M 30
T 31	6 37 9	9°13'51	2°55	28°25	15°17	4°35	10°16	27° 1	4° 2	7° 6	24°46	4°19	5°22	19°45	3°55	T 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	decl lat	
S 1	21s46	9s 5	2n11	25s51	2s25	21s21	0n14	15s39	0n24	19s53	0s40	3s45	2s25	10n41	0n46	S 1
M 2	21 55	3 47	3 6	25 51	2 24	21 35	0 12	15 52	0 24	19 50	0 40	3 45	2 25	10 41	0 46	M 2
T 3	22 4	1n35	3 52	25 50	2 22	21 49	0 10	16 4	0 23	19 48	0 40	3 45	2 24	10 41	0 46	T 3
W 4	22 13	6 50	4 28	25 47	2 20	22 2	0 7	16 17	0 23	19 45	0 40	3 44	2 24	10 41	0 46	W 4
T 5	22 21	11 51	4 53	25 43	2 18	22 14	0 5	16 29	0 22	19 42	0 40	3 44	2 24	10 41	0 46	T 5
F 6	22 28	16 28	5 5	25 37	2 14	22 26	0 3	16 41	0 22	19 39	0 40	3 43	2 24	10 40	0 46	F 6
S 7	22 35	20 28	5 3	25 30	2 10	22 37	0 0	16 53	0 21	19 37	0 40	3 43	2 24	10 40	0 46	S 7
S 8	22 42	23 40	4 48	25 22	2 5	22 48	0s 2	17 5	0 21	19 34	0 40	3 42	2 23	10 40	0 46	S 8
M 9	22 48	25 48	4 19	25 13	1 59	22 57	0 5	17 17	0 20	19 31	0 40	3 42	2 23	10 40	0 46	M 9
T 10	22 54	26 41	3 38	25 2	1 51	23 6	0 7	17 28	0 19	19 28	0 40	3 41	2 23	10 40	0 46	T 10
W 11	22 59	26 10	2 44	24 50	1 43	23 15	0 9	17 40	0 19	19 25	0 40	3 40	2 23	10 41	0 46	W 11
T 12	23 4	24 13	1 41	24 37	1 34	23 22	0 12	17 51	0 18	19 22	0 40	3 40	2 22	10 41	0 46	T 12
F 13	23 9	20 57	0 32	24 24	1 23	23 29	0 14	18 2	0 18	19 19	0 40	3 39	2 22	10 41	0 46	F 13
S 14	23 13	16 32	0s40	24 9	1 11	23 35	0 17	18 13	0 17	19 16	0 40	3 38	2 22	10 41	0 46	S 14
S 15	23 16	11 14	1 51	23 54	0 58	23 41	0 19	18 24	0 17	19 13	0 40	3 37	2 22	10 41	0 46	S 15
M 16	23 19	5 20	2 57	23 38	0 43	23 46	0 21	18 35	0 16	19 10	0 40	3 36	2 22	10 41	0 46	M 16
T 17	23 22	0s55	3 53	23 22	0 28	23 50	0 24	18 45	0 15	19 7	0 40	3 35	2 21	10 41	0 46	T 17
W 18	23 24	7 11	4 36	23 6	0 11	23 53	0 26	18 56	0 15	19 4	0 40	3 34	2 21	10 42	0 46	W 18
T 19	23 25	13 9	5 3	22 50	0n 7	23 56	0 28	19 6	0 14	19 1	0 40	3 33	2 21	10 42	0 46	T 19
F 20	23 27	18 28	5 10	22 33	0 26	23 57	0 30	19 16	0 14	18 57	0 40	3 32	2 21	10 42	0 46	F 20
S 21	23 27	22 43	4 59	22 17	0 46	23 58	0 33	19 26	0 13	18 54	0 40	3 31	2 20	10 42	0 46	S 21
S 22	23 27	25 33	4 28	22 1	1 6	23 59	0 35	19 36	0 12	18 51	0 40	3 30	2 20	10 43	0 46	S 22
M 23	23 27	26 41	3 40	21 46	1 26	23 58	0 37	19 46	0 12	18 47	0 40	3 29	2 20	10 43	0 47	M 23
T 24	23 26	26 4	2 40	21 31	1 45	23 57	0 39	19 56	0 11	18 44	0 40	3 28	2 20	10 43	0 47	T 24
W 25	23 25	23 51	1 31	21 17	2 3	23 55	0 41	20 5	0 11	18 41	0 40	3 26	2 20	10 43	0 47	W 25
T 26	23 24	20 20	0 19	21 3	2 20	23 52	0 44	20 14	0 10	18 37	0 40	3 25	2 19	10 44	0 47	T 26
F 27	23 21	15 53	0n52	20 51	2 34	23 49	0 46	20 23	0 9	18 34	0 41	3 24	2 19	10 44	0 47	F 27
S 28	23 19	10 51	1 59	20 40	2 47	23 45	0 48	20 32	0 9	18 30	0 41	3 22	2 19	10 45	0 47	S 28
S 29	23 16	5 31	2 58	20 31	2 57	23 40	0 50	20 41	0 8	18 27	0 41	3 21	2 19	10 45	0 47	S 29
M 30	23 12	0 5	3 49	20 23	3 4	23 34	0 52	20 49	0 7	18 23	0 41	3 20	2 18	10 45	0 47	M 30
T 31	23s 8	5n16	4n29	20s18	3n 9	23s28	0s54	20s58	0n 7	18s20	0s41	3s18	2s18	10n46	0n47	T 31

Julian Day Number = 2407319.5, Delta T = -2.82 sec
 Ecliptic obliquity = 23°27'23", Nutation = 0°00'13", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 23°02'58", Lahiri = 22°09'58"