



Astrodienst Ephemeris Tables for the year 2107

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 2107
geocentric

JANUARY 2107

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 40 13	9♂53'46	22♂14	21♂51	24♂15	28♂46	5♂ 9	9♂ 9	16°R22	2♂39	9°R12	6°R32	5♂35	27♂ 1	4♂15	S 1
S 2	6 44 10	10°54'54	4♂34	23°27	25°23	29°33	5° 9	9°16	16♂21	2°39	9♂11	6♂30	5°32	27° 8	4°20	S 2
M 3	6 48 6	11°56'03	17°12	25° 3	26°30	0♂20	5°10	9°23	16°20	2°39	9°11	6°D30	5°29	27°14	4°25	M 3
T 4	6 52 3	12°57'12	0♂13	26°38	27°38	1° 7	5°10	9°30	16°19	2°R39	9°10	6°R31	5°26	27°21	4°29	T 4
W 5	6 55 59	13°58'20	13°41	28°13	28°46	1°54	5°11	9°37	16°18	2°39	9°10	6°31	5°23	27°28	4°34	W 5
T 6	6 59 56	14°59'28	27°38	29°48	29°54	2°41	5°13	9°44	16°17	2°39	9°10	6°29	5°20	27°35	4°39	T 6
F 7	7 3 53	16° 0'36	12♂ 5	1♂21	1♂ 2	3°28	5°14	9°51	16°16	2°39	9° 9	6°25	5°16	27°41	4°44	F 7
S 8	7 7 49	17° 1'44	26°58	2°54	2°10	4°15	5°16	9°58	16°15	2°38	9° 9	6°18	5°13	27°48	4°49	S 8
S 9	7 11 46	18° 2'52	12♂10	4°25	3°19	5° 2	5°18	10° 5	16°14	2°38	9° 8	6° 8	5°10	27°55	4°54	S 9
M10	7 15 42	19° 3'59	27°32	5°55	4°28	5°50	5°20	10°12	16°13	2°38	9° 8	5°57	5° 7	28° 1	4°59	M10
T 11	7 19 39	20° 5'06	12♂51	7°23	5°37	6°37	5°22	10°19	16°13	2°38	9° 8	5°46	5° 4	28° 8	5° 4	T 11
W12	7 23 35	21° 6'13	27°56	8°48	6°46	7°24	5°24	10°26	16°12	2°38	9° 8	5°37	5° 0	28°15	5° 9	W12
T 13	7 27 32	22° 7'20	12♂38	10°11	7°55	8°11	5°27	10°33	16°11	2°37	9° 7	5°29	4°57	28°22	5°14	T 13
F 14	7 31 28	23° 8'27	26°52	11°31	9° 4	8°58	5°30	10°40	16°11	2°37	9° 7	5°24	4°54	28°28	5°18	F 14
S 15	7 35 25	24° 9'34	10♂37	12°46	10°14	9°46	5°33	10°47	16°10	2°37	9° 7	5°22	4°51	28°35	5°23	S 15
S 16	7 39 22	25°10'41	23°54	13°58	11°23	10°33	5°36	10°54	16°10	2°36	9° 7	5°D21	4°48	28°42	5°28	S 16
M17	7 43 18	26°11'48	6♂47	15° 4	12°33	11°20	5°39	11° 1	16° 9	2°36	9° 7	5°R21	4°45	28°49	5°33	M17
T 18	7 47 15	27°12'55	19°20	16° 4	13°43	12° 7	5°43	11° 8	16° 9	2°35	9° 7	5°21	4°41	28°55	5°38	T 18
W19	7 51 11	28°14'01	1♂38	16°57	14°53	12°55	5°47	11°15	16° 9	2°35	9° 6	5°18	4°38	29° 2	5°44	W19
T 20	7 55 8	29°15'08	13°44	17°43	16° 3	13°42	5°51	11°22	16° 8	2°34	9° 6	5°13	4°35	29° 9	5°49	T 20
F 21	7 59 4	0♂16'14	25°43	18°20	17°14	14°29	5°55	11°29	16° 8	2°34	9° 6	5° 5	4°32	29°15	5°54	F 21
S 22	8 3 1	1°17'19	7♂38	18°47	18°24	15°17	5°59	11°36	16° 8	2°33	9° 6	4°54	4°29	29°22	5°59	S 22
S 23	8 6 57	2°18'24	19°30	19° 5	19°34	16° 4	6° 4	11°43	16° 8	2°33	9°D 6	4°40	4°26	29°29	6° 4	S 23
M24	8 10 54	3°19'29	1♂22	19°R11	20°45	16°52	6° 8	11°49	16° 8	2°32	9° 6	4°25	4°22	29°36	6° 9	M24
T 25	8 14 51	4°20'33	13°15	19° 6	21°56	17°39	6°13	11°56	16°D 8	2°31	9° 6	4° 9	4°19	29°42	6°14	T 25
W26	8 18 47	5°21'36	25°10	18°50	23° 6	18°26	6°18	12° 3	16° 8	2°31	9° 6	3°55	4°16	29°49	6°19	W26
T 27	8 22 44	6°22'38	7♂ 7	18°22	24°17	19°14	6°24	12°10	16° 8	2°30	9° 6	3°43	4°13	29°56	6°24	T 27
F 28	8 26 40	7°23'39	19°10	17°43	25°28	20° 1	6°29	12°16	16° 8	2°29	9° 7	3°33	4°10	0♂ 2	6°29	F 28
S 29	8 30 37	8°24'39	1♂21	16°54	26°39	20°49	6°35	12°23	16° 8	2°28	9° 7	3°27	4° 6	0° 9	6°34	S 29
S 30	8 34 33	9°25'38	13°43	15°56	27°50	21°36	6°41	12°29	16° 9	2°28	9° 7	3°23	4° 3	0°16	6°39	S 30
M31	8 38 30	10♂26'36	26♂19	14♂51	29♂ 2	22♂24	6♂47	12♂36	16♂ 9	2♂27	9♂ 7	3♂22	4♂ 0	0♂23	6♂44	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23s 3	0n11	3n33	23s48	2s10	16s 2	2n52	21s29	1s 7	12n 6	1s12	22s30	0n36	16n23	0s21	0n 9	1n19	1s 6	16s28	13s41	13s23	15s45	12s52	6n30			
S 2	22 58	4 17	2 41	23 31	2 10	16 19	2 52	21 19	1 7	12 6	1 12	22 30	0 36	16 23	0 21	0 9	1 19	1 5	16 27	13 41	13 22	15 43	12 51	6 29			
M 3	22 53	8 18	1 41	23 13	2 8	16 35	2 51	21 9	1 7	12 7	1 11	22 29	0 36	16 23	0 21	0 9	1 19	1 5	16 27	13 41	13 20	15 42	12 50	6 29			
T 4	22 48	12 4	0 33	22 53	2 6	16 51	2 50	20 59	1 7	12 7	1 11	22 29	0 36	16 22	0 21	0 9	1 19	1 5	16 27	13 41	13 19	15 41	12 49	6 29			
W 5	22 41	15 20	0s38	22 31	2 4	17 7	2 49	20 49	1 7	12 8	1 11	22 29	0 36	16 22	0 21	0 9	1 19	1 5	16 26	13 41	13 18	15 39	12 48	6 29			
T 6	22 35	17 50	1 50	22 9	2 1	17 22	2 48	20 38	1 7	12 9	1 10	22 28	0 36	16 22	0 21	0 9	1 19	1 5	16 26	13 40	13 17	15 38	12 48	6 29			
F 7	22 28	19 18	2 57	21 44	1 57	17 38	2 47	20 27	1 7	12 9	1 10	22 28	0 36	16 22	0 21	0 9	1 19	1 5	16 26	13 39	13 16	15 36	12 47	6 28			
S 8	22 20	19 29	3 54	21 19	1 52	17 52	2 46	20 16	1 7	12 10	1 10	22 27	0 36	16 21	0 21	0 10	1 19	1 4	16 25	13 37	13 15	15 35	12 46	6 28			
S 9	22 12	18 17	4 36	20 52	1 47	18 7	2 44	20 5	1 7	12 11	1 9	22 27	0 36	16 21	0 21	0 10	1 19	1 4	16 25	13 33	13 14	15 34	12 45	6 28			
M10	22 4	15 46	4 58	20 25	1 41	18 21	2 43	19 53	1 7	12 12	1 9	22 26	0 36	16 21	0 21	0 10	1 19	1 4	16 25	13 30	13 13	15 32	12 44	6 28			
T 11	21 55	12 10	4 59	19 56	1 34	18 35	2 41	19 41	1 7	12 13	1 9	22 26	0 36	16 21	0 21	0 10	1 19	1 4	16 24	13 26	13 12	15 31	12 43	6 28			
W12	21 46	7 49	4 39	19 26	1 26	18 48	2 40	19 29	1 7	12 14	1 9	22 25	0 36	16 21	0 21	0 10	1 19	1 3	16 24	13 23	13 11	15 29	12 41	6 28			
T 13	21 36	3 6	4 1	18 56	1 18	19 1	2 38	19 17	1 7	12 15	1 8	22 25	0 35	16 21	0 21	0 10	1 19	1 3	16 24	13 20	13 10	15 28	12 40	6 28			
F 14	21 26	1s39	3 9	18 25	1 8	19 14	2 36	19 4	1 7	12 17	1 8	22 24	0 35	16 20	0 21	0 10	1 19	1 3	16 23	13 19	13 9	15 27	12 39	6 28			
S 15	21 16	6 9	2 7	17 53	0 58	19 26	2 34	18 52	1 7	12 18	1 8	22 24	0 35	16 20	0 21	0 11	1 19	1 3	16 23	13 18	13 8	15 25	12 38	6 27			
S 16	21 5	10 12	1 0	17 22	0 47	19 37	2 32	18 39	1 7	12 19	1 7	22 23	0 35	16 20	0 20	0 11	1 19	1 2	16 23	13 18	13 7	15 24	12 37	6 27			
M17	20 54	13 39	0n 8	16 51	0 34	19 49	2 30	18 26	1 6	12 21	1 7	22 23	0 35	16 20	0 20	0 11	1 19	1 2	16 22	13 18	13 6	15 22	12 36	6 27			
T 18	20 42	16 22	1 13	16 20	0 21	19 59	2 28	18 13	1 6	12 22	1 7	22 22	0 35	16 20	0 20	0 11	1 20	1 2	16 22	13 18	13 5	15 21	12 35	6 27			
W19	20 30	18 17	2 14	15 51	0 6	20 10	2 25	17 59	1 6	12 24	1 6	22 22	0 35	16 20	0 20	0 11	1 20	1 1	16 22	13 17	13 3	15 19	12 34	6 27			
T 20	20 18	19 20	3 8	15 22	0n 9	20 19	2 23	17 46	1 6	12 25	1 6	22 21	0 35	16 20	0 20	0 12	1 20	1 1	16 21	13 15	13 2	15 18	12 33	6 27			
F 21	20 5	19 29	3 52	14 56	0 25	20 29	2 21	17 32	1 6	12 27	1 6	22 21	0 35	16 20	0 20	0 12	1 20	1 1	16 21	13 12	13 1	15 17	12 32	6 27			
S 22	19 52	18 46	4 27	14 31	0 42	20 38	2 18	17 18	1 6	12 29	1 6	22 20	0 35	16 20	0 20	0 12	1 20	1 0	16 21	13 9	13 0	15 15	12 31	6 27			
S 23	19 38	17 14	4 49	14 9	0 59	20 46	2 15	17 3	1 6	12 30	1 5	22 20	0 35	16 20	0 20	0 13	1 20	1 0	16 20	13 4	12 59	15 14	12 29	6 27			
M24	19 24	14 59	4 59	13 50	1 17	20 54	2 13	16 49	1 6	12 32	1 5	22 19	0 35	16 20	0 20	0 13	1 20	1 0	16 20	12 59	12 58	15 12	12 28	6 27			
T 25	19 10	12 6	4 55	13 34	1 35	21 1	2 10	16 34	1 6	12 34	1 5	22 19	0 35	16 20	0 20	0 13	1 20	0 59	16 19	12 54	12 57	15 11	12 27	6 27			
W26	18 55	8 44	4 39	13 22	1 53	21 8	2 7	16 20	1 5	12 36	1 4	22 18	0 35	16 20	0 20	0 13	1 20	0 59	16 19	12 49	12 56	15 9	12 26	6 27			
T 27	18 40	5 0	4 11	13 14	2 11	21 14	2 4	16 5	1 5	12 38	1 4	22 17	0 35	16 20	0 20	0 14	1 20	0 59	16 19	12 45	12 55	15 8	12 25	6 27			
F 28	18 25	1 3	3 31	13 10	2 28	21 19	2 2	15 50	1 5	12 40	1 4	22 17	0 35	16 20	0 20	0 14	1 20	0 58	16 18	12 42	12 54	15 7	12 23	6 27			
S 29	18 9	2n59	2 40	13 9	2 44	21 24	1 59	15 34	1 5	12 42	1 4	22 16	0 35	16 20	0 20	0 14	1 20	0 58	16 18	12 39	12 53	15 5	12 22	6 27			
S 30	17 53	6 58	1 42	13 13	2 58	21 29	1 56	15 19	1 5	12 44	1 3	22 16	0 35	16 20	0 20	0 15	1 20	0 58	16 18	12 38	12 52	15 4	12 21	6 27			
M31	17s37	10n44	0n37	13s20	3n11	21s33	1n53	15s 4	1s 5	12n47	1s 3	22s15	0n35	16n20	0s20	0n15	1n20	0s57	16s17	12s38	12s51	15s 2	12s20	6n27			

ASTRODIENST EPHEMERIS for the year 2107

geocentric

FEBRUARY 2107

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 26	11 ²⁷ 33	9 ⁸ 15	13 ⁴⁰ R40	0 ⁸ 13	23 ⁵⁹ 11	6 ⁵³ 53	12 ⁴³ 34	16 ⁸ 9	2 ²⁶ R26	9 ⁸ 7	3 ²² R22	3 ⁵⁷ 15	0 ²⁹ 29	6 ⁴⁹ 49	T 1
W 2	8 46 23	12 ²⁸ 28	22 ³³ 33	12 ²⁷ 27	1 ²⁴ 24	23 ⁵⁹ 59	6 ⁵⁹ 59	12 ⁴⁹ 49	16 ¹⁰ 10	2 ²⁵ 25	9 ⁷ 7	3 ²² 22	3 ⁵⁴ 54	0 ³⁶ 36	6 ⁵⁴ 54	W 2
T 3	8 50 20	13 ²⁹ 23	6 ¹¹ 18	11 ¹² 12	2 ³⁶ 36	24 ⁴⁶ 46	7 ⁶ 6	12 ⁵⁶ 56	16 ¹⁰ 10	2 ²⁴ 24	9 ⁸ 8	3 ²⁰ 20	3 ⁵¹ 51	0 ⁴³ 43	6 ⁵⁹ 59	T 3
F 4	8 54 16	14 ³⁰ 16	20 ³¹ 31	9 ⁵⁸ 58	3 ⁴⁷ 47	25 ³³ 33	7 ¹² 12	13 ² 2	16 ¹¹ 11	2 ²³ 23	9 ⁸ 8	3 ¹⁶ 16	3 ⁴⁷ 47	0 ⁵⁰ 50	7 ⁴ 4	F 4
S 5	8 58 13	15 ³¹ 08	5 ⁵¹ 11	8 ⁴⁸ 48	4 ⁵⁹ 59	26 ²¹ 21	7 ¹⁹ 19	13 ⁸ 8	16 ¹¹ 11	2 ²² 22	9 ⁸ 8	3 ¹⁰ 10	3 ⁴⁴ 44	0 ⁵⁶ 56	7 ⁹ 9	S 5
S 6	9 2 9	16 ³¹ 58	20 ¹³ 13	7 ⁴² 42	6 ¹⁰ 10	27 ⁸ 8	7 ²⁶ 26	13 ¹⁵ 15	16 ¹² 12	2 ²¹ 21	9 ⁸ 8	3 ⁰ 0	3 ⁴¹ 41	1 ³ 3	7 ¹⁴ 14	S 6
M 7	9 6 6	17 ³² 47	5 ³⁰ 30	6 ⁴³ 43	7 ²² 22	27 ⁵⁶ 56	7 ³³ 33	13 ²¹ 21	16 ¹³ 13	2 ²⁰ 20	9 ⁹ 9	2 ⁵⁰ 50	3 ³⁸ 38	1 ¹⁰ 10	7 ¹⁹ 19	M 7
T 8	9 10 2	18 ³³ 35	20 ⁴⁹ 49	5 ⁵⁰ 50	8 ³⁴ 34	28 ⁴³ 43	7 ⁴⁰ 40	13 ²⁷ 27	16 ¹³ 13	2 ¹⁹ 19	9 ⁹ 9	2 ³⁸ 38	3 ³⁵ 35	1 ¹⁶ 16	7 ²⁴ 24	T 8
W 9	9 13 59	19 ³⁴ 22	6 ¹⁰ 0	5 ⁶ 6	9 ⁴⁶ 46	29 ³¹ 31	7 ⁴⁸ 48	13 ³³ 33	16 ¹⁴ 14	2 ¹⁸ 18	9 ⁹ 9	2 ²⁸ 28	3 ³² 32	1 ²³ 23	7 ²⁹ 29	W 9
T 10	9 17 55	20 ³⁵ 07	20 ⁵² 52	4 ²⁹ 29	10 ⁵⁷ 57	0 ¹⁸ 18	7 ⁵⁵ 55	13 ⁴⁰ 40	16 ¹⁵ 15	2 ¹⁷ 17	9 ¹⁰ 10	2 ²⁰ 20	3 ²⁸ 28	1 ³⁰ 30	7 ³⁴ 34	T 10
F 11	9 21 52	21 ³⁵ 51	5 ¹⁸ 18	4 ¹ 1	12 ⁹ 9	1 ⁶ 6	8 ³ 3	13 ⁴⁶ 46	16 ¹⁶ 16	2 ¹⁶ 16	9 ¹⁰ 10	2 ¹⁵ 15	3 ²⁵ 25	1 ³⁷ 37	7 ³⁹ 39	F 11
S 12	9 25 49	22 ³⁶ 35	19 ¹⁵ 15	3 ⁴¹ 41	13 ²¹ 21	1 ⁵³ 53	8 ¹¹ 11	13 ⁵² 52	16 ¹⁷ 17	2 ¹⁴ 14	9 ¹¹ 11	2 ¹² 12	3 ²² 22	1 ⁴³ 43	7 ⁴⁴ 44	S 12
S 13	9 29 45	23 ³⁷ 17	2 ¹⁴ 41	3 ²⁹ 29	14 ³³ 33	2 ⁴¹ 41	8 ¹⁹ 19	13 ⁵⁸ 58	16 ¹⁸ 18	2 ¹³ 13	9 ¹¹ 11	2 ¹² D12	3 ¹⁹ 19	1 ⁵⁰ 50	7 ⁴⁹ 49	S 13
M14	9 33 42	24 ³⁷ 59	15 ⁴⁰ 40	3 ²⁹ D25	15 ⁴⁶ 46	3 ²⁸ 28	8 ²⁷ 27	14 ⁴ 4	16 ¹⁹ 19	2 ¹² 12	9 ¹¹ 11	2 ¹² 12	3 ¹⁶ 16	1 ⁵⁷ 57	7 ⁵⁴ 54	M14
T 15	9 37 38	25 ³⁸ 39	28 ¹⁷ 17	3 ²⁸ 28	16 ⁵⁸ 58	4 ¹⁵ 15	8 ³⁶ 36	14 ¹⁰ 10	16 ²⁰ 20	2 ¹¹ 11	9 ¹² 12	2 ¹¹ R12	3 ¹² 12	2 ⁴ 4	7 ⁵⁹ 59	T 15
W16	9 41 35	26 ³⁹ 18	10 ¹⁷ 35	3 ³⁸ 38	18 ¹⁰ 10	5 ³ 3	8 ⁴⁴ 44	14 ¹⁶ 16	16 ²¹ 21	2 ⁹ 9	9 ¹² 12	2 ¹¹ 11	3 ⁹ 9	2 ¹⁰ 10	8 ³ 3	W16
T 17	9 45 31	27 ³⁹ 56	22 ³⁹ 39	3 ⁵⁴ 54	19 ²² 22	5 ⁵⁰ 50	8 ⁵³ 53	14 ²¹ 21	16 ²² 22	2 ⁸ 8	9 ¹³ 13	2 ⁸ 8	3 ⁶ 6	2 ¹⁷ 17	8 ⁸ 8	T 17
F 18	9 49 28	28 ⁴⁰ 33	4 ³⁵ 35	4 ¹⁷ 17	20 ³⁵ 35	6 ³⁸ 38	9 ¹ 1	14 ²⁷ 27	16 ²⁴ 24	2 ⁷ 7	9 ¹⁴ 14	2 ² 2	3 ³ 3	2 ²⁴ 24	8 ¹³ 13	F 18
S 19	9 53 24	29 ⁴¹ 09	16 ²⁷ 27	4 ⁴⁴ 44	21 ⁴⁷ 47	7 ²⁵ 25	9 ¹⁰ 10	14 ³³ 33	16 ²⁵ 25	2 ⁶ 6	9 ¹⁴ 14	1 ⁵⁴ 54	3 ⁰ 0	2 ³⁰ 30	8 ¹⁸ 18	S 19
S 20	9 57 21	0 ⁴¹ 43	20 ¹⁸ 18	5 ¹⁷ 17	22 ⁵⁹ 59	8 ¹³ 13	9 ¹⁹ 19	14 ³⁹ 39	16 ²⁶ 26	2 ⁴ 4	9 ¹⁵ 15	1 ⁴³ 43	2 ⁵⁷ 57	2 ³⁷ 37	8 ²³ 23	S 20
M21	10 1 18	1 ⁴² 16	10 ¹⁰ 10	5 ⁵⁴ 54	24 ¹² 12	9 ⁰ 0	9 ²⁸ 28	14 ⁴⁴ 44	16 ²⁸ 28	2 ³ 3	9 ¹⁵ 15	1 ³² 32	2 ⁵³ 53	2 ⁴⁴ 44	8 ²⁷ 27	M21
T 22	10 5 14	2 ⁴² 48	22 ⁶ 6	6 ³⁶ 36	25 ²⁴ 24	9 ⁴⁷ 47	9 ³⁸ 38	14 ⁵⁰ 50	16 ²⁹ 29	2 ¹ 1	9 ¹⁶ 16	1 ¹⁹ 19	2 ⁵⁰ 50	2 ⁵¹ 51	8 ³² 32	T 22
W23	10 9 11	3 ⁴³ 17	4 ¹¹ 6	7 ²² 22	26 ³⁷ 37	10 ³⁵ 35	9 ⁴⁷ 47	14 ⁵⁵ 55	16 ³¹ 31	2 ⁰ 0	9 ¹⁷ 17	1 ⁸ 8	2 ⁴⁷ 47	2 ⁵⁷ 57	8 ³⁷ 37	W23
T 24	10 13 7	4 ⁴³ 46	16 ¹³ 13	8 ¹¹ 11	27 ⁴⁹ 49	11 ²² 22	9 ⁵⁷ 57	15 ¹ 1	16 ³² 32	1 ⁵⁹ 59	9 ¹⁷ 17	0 ⁵⁸ 58	2 ⁴⁴ 44	3 ⁴ 4	8 ⁴¹ 41	T 24
F 25	10 17 4	5 ⁴⁴ 12	28 ²⁷ 27	9 ³ 3	29 ² 2	12 ⁹ 9	10 ⁶ 6	15 ⁶ 6	16 ³⁴ 34	1 ⁵⁷ 57	9 ¹⁸ 18	0 ⁵¹ 51	2 ⁴¹ 41	3 ¹¹ 11	8 ⁴⁶ 46	F 25
S 26	10 21 0	6 ⁴⁴ 37	10 ¹⁷ 49	9 ⁵⁹ 59	0 ¹⁵ 15	12 ⁵⁷ 57	10 ¹⁶ 16	15 ¹¹ 11	16 ³⁵ 35	1 ⁵⁶ 56	9 ¹⁹ 19	0 ⁴⁶ 46	2 ³⁷ 37	3 ¹⁷ 17	8 ⁵¹ 51	S 26
S 27	10 24 57	7 ⁴⁵ 00	23 ²² 22	10 ⁵⁸ 58	1 ²⁷ 27	13 ⁴⁴ 44	10 ²⁶ 26	15 ¹⁶ 16	16 ³⁷ 37	1 ⁵⁴ 54	9 ¹⁹ 19	0 ⁴⁴ 44	2 ³⁴ 34	3 ²⁴ 24	8 ⁵⁵ 55	S 27
M28	10 28 53	8 ⁴⁵ 22	6 ⁸ 8	11 ⁵⁹ 59	2 ⁴⁰ 40	14 ³¹ 31	10 ³⁶ 36	15 ²² 22	16 ³⁹ 39	1 ⁵³ 53	9 ²⁰ 20	0 ⁴⁴ D44	2 ³¹ 31	3 ²³ 23	9 ⁰ 0	M28

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	17s20	14n 5	0s31	13s30	3n21	21s36	1n49	14s48	1s 5	12n49	1s 3	22s15	0n35	16n20	0s20	0n16	1n20	0s57	16s17	12s38	12s50	15s 1	12s19	6n27	
W 2	17 3	16 47	1 40	13 43	3 29	21 39	1 46	14 32	1 4	12 51	1 2	22 14	0 34	16 21	0 20	0 16	1 20	0 56	16 17	12 38	12 48	14 59	12 17	6 27	
T 3	16 46	18 38	2 45	13 58	3 34	21 41	1 43	14 16	1 4	12 53	1 2	22 13	0 34	16 21	0 20	0 16	1 20	0 56	16 16	12 37	12 47	14 58	12 16	6 27	
F 4	16 28	19 24	3 42	14 14	3 38	21 42	1 40	14 0	1 4	12 56	1 2	22 13	0 34	16 21	0 20	0 17	1 20	0 56	16 16	12 36	12 46	14 56	12 15	6 27	
S 5	16 10	18 53	4 26	14 32	3 38	21 43	1 37	13 43	1 4	12 58	1 2	22 12	0 34	16 21	0 20	0 17	1 20	0 55	16 16	12 33	12 45	14 55	12 14	6 27	
S 6	15 52	17 4	4 54	14 51	3 36	21 44	1 33	13 27	1 4	13 1	1 1	22 12	0 34	16 21	0 20	0 18	1 20	0 55	16 15	12 30	12 44	14 53	12 12	6 27	
M 7	15 34	14 1	5 1	15 9	3 33	21 43	1 30	13 10	1 3	13 3	1 1	22 11	0 34	16 22	0 20	0 18	1 20	0 54	16 15	12 27	12 43	14 52	12 11	6 27	
T 8	15 15	10 1	4 46	15 27	3 27	21 42	1 27	12 54	1 3	13 6	1 1	22 11	0 34	16 22	0 20	0 19	1 20	0 54	16 14	12 23	12 42	14 51	12 10	6 27	
W 9	14 56	5 24	4 12	15 45	3 20	21 41	1 23	12 37	1 3	13 9	1 1	22 10	0 34	16 22	0 20	0 19	1 21	0 53	16 14	12 19	12 41	14 49	12 8	6 27	
T 10	14 37	0 33	3 20	16 2	3 11	21 39	1 20	12 20	1 3	13 11	1 0	22 9	0 34	16 22	0 20	0 20	1 21	0 53	16 14	12 17	12 40	14 48	12 7	6 27	
F 11	14 18	4s13	2 18	16 18	3 1	21 36	1 17	12 3	1 2	13 14	1 0	22 9	0 34	16 23	0 20	0 20	1 21	0 53	16 13	12 15	12 39	14 46	12 6	6 27	
S 12	13 58	8 35	1 8	16 33	2 51	21 32	1 13	11 46	1 2	13 17	1 0	22 8	0 34	16 23	0 20	0 21	1 21	0 52	16 13	12 14	12 38	14 45	12 4	6 28	
S 13	13 38	12 21	0n 3	16 46	2 40	21 28	1 10	11 29	1 2	13 20	1 0	22 8	0 34	16 23	0 20	0 21	1 21	0 52	16 13	12 14	12 37	14 43	12 3	6 28	
M14	13 18	15 23	1 11	16 59	2 28	21 24	1 6	11 11	1 2	13 23	0 59	22 7	0 34	16 23	0 20	0 22	1 21	0 51	16 12	12 14	12 36	14 42	12 2	6 28	
T 15	12 58	17 35	2 14	17 10	2 16	21 19	1 3	10 54	1 1	13 25	0 59	22 6	0 34	16 24	0 20	0 22	1 21	0 51	16 12	12 14	12 34	14 40	12 1	6 28	
W16	12 37	18 54	3 9	17 19	2 4	21 13	0 59	10 36	1 1	13 28	0 59	22 6	0 34	16 24	0 20	0 23	1 21	0 50	16 12	12 13	12 33	14 39	11 59	6 28	
T 17	12 17	19 19	3 55	17 28	1 51	21 6	0 56	10 18	1 1	13 31	0 59	22 5	0 34	16 25	0 20	0 23	1 21	0 50	16 11	12 12	12 32	14 37	11 58	6 28	
F 18	11 56	18 51	4 30	17 35	1 39	20 59	0 52	10 1	1 0	13 34	0 58	22 5	0 34	16 25	0 20	0 24	1 21	0 49	16 11	12 10	12 31	14 36	11 57	6 28	
S 19	11 34	17 34	4 52	17 40	1 27	20 52	0 49	9 43	1 0	13 37	0 58	22 4	0 34	16 25	0 20	0 24	1 21	0 49	16 11	12 8	12 30	14 34	11 55	6 28	
S 20	11 13	15 33	5 3	17 44	1 15	20 43	0 45	9 25	1 0	13 40	0 58	22 4	0 34	16 26	0 20	0 25	1 21	0 48	16 10	12 4	12 29	14 33	11 54	6 29	
M21	10 52	12 52	5 0	17 46	1 3	20 34	0 42	9 7	1 0	13 44	0 58	22 3	0 34	16 26	0 20	0 25	1 21	0 48	16 10	12 0	12 28	14 31	11 53	6 29	
T 22	10 30	9 39	4 44	17 47	0 51	20 25	0 38	8 48	0 59	13 47	0 57	22 2	0 34	16 27	0 20	0 26	1 21	0 47	16 10	11 56	12 27	14 30	11 51	6 29	
W23	10 8	6 2	4 15	17 47	0 39	20 15	0 35	8 30	0 59	13 50	0 57	22 2	0 34	16 27	0 20	0 27	1 21	0 47	16 9	11 52	12 26	14 28	11 50	6 29	
T 24	9 46	2 8	3 35	17 45	0 28	20 4	0 31	8 12	0 59	13 53	0 57	22 1	0 34	16 27	0 20	0 27	1 21	0 46	16 9	11 48	12 25	14 27	11 48	6 29	
F 25	9 24	1n54	2 44	17 42	0 17	19 53	0 28	7 54	0 58	13 56	0 57	22 1	0 34	16 28	0 19	0 28	1 21	0 46	16 9	11 46	12 24	14 25	11 47	6 29	
S 26	9 2	5 53	1 45	17 37	0 7	19 41	0 25	7 35	0 58	14 0	0 57	22 0	0 34	16 28	0 19	0 28	1 21	0 45	16 8	11 44	12 23	14 24	11 46	6 30	
S 27	8 39	9 41	0 39	17 31	0s 3	19 29	0 21	7 17	0 58	14 3	0 56	22 0	0 34	16 29	0 19	0 29	1 21	0 45	16 8	11 43	12 21	14 22	11 44	6 30	
M28	8s17	13n 6	0s29	17s24	0s13	19s16	0n18	6s58	0s57	14n 6	0s56	21s59	0n34	16n29	0s19	0n30	1n21	0s44	16s 8	11s43	12s20	14s21	11s43	6n30	

ASTRODIENST EPHEMERIS for the year 2107

geocentric

MARCH 2107

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 32 50	9♂45'41	19♂ 8	13♂ 3	3♂53	15♂19	10♂46	15♂27	16♂40	1♂R51	9♂21	0♂M45	2♂M28	3♂38	9♂4 4	T 1
W 2	10 36 47	10°45'58	2♂II26	14° 9	5° 5	16° 6	10°56	15°32	16°42	1♂50	9°22	0°46	2°25	3°44	9° 9	W 2
T 3	10 40 43	11°46'14	16° 5	15°17	6°18	16°53	11° 7	15°37	16°44	1°48	9°22	0°R46	2°22	3°51	9°13	T 3
F 4	10 44 40	12°46'27	0♂ 6	16°28	7°31	17°40	11°17	15°42	16°46	1°47	9°23	0°45	2°18	3°58	9°18	F 4
S 5	10 48 36	13°46'39	14°28	17°40	8°44	18°28	11°28	15°46	16°48	1°45	9°24	0°41	2°15	4° 5	9°22	S 5
S 6	10 52 33	14°46'48	29° 9	18°54	9°57	19°15	11°38	15°51	16°50	1°44	9°25	0°36	2°12	4°11	9°26	S 6
M 7	10 56 29	15°46'55	14♂ 4	20°10	11°10	20° 2	11°49	15°56	16°52	1°42	9°26	0°30	2° 9	4°18	9°31	M 7
T 8	11 0 26	16°47'00	29° 4	21°27	12°22	20°49	12° 0	16° 0	16°54	1°40	9°27	0°23	2° 6	4°25	9°35	T 8
W 9	11 4 22	17°47'03	14♂ 1	22°46	13°35	21°36	12°11	16° 5	16°56	1°39	9°28	0°16	2° 3	4°31	9°39	W 9
T 10	11 8 19	18°47'04	28°45	24° 7	14°48	22°23	12°22	16° 9	16°58	1°37	9°28	0°11	1°59	4°38	9°43	T 10
F 11	11 12 15	19°47'04	13♂10	25°29	16° 1	23°10	12°33	16°14	17° 0	1°36	9°29	0° 8	1°56	4°45	9°47	F 11
S 12	11 16 12	20°47'01	27° 9	26°53	17°14	23°57	12°45	16°18	17° 3	1°34	9°30	0°D 7	1°53	4°52	9°52	S 12
S 13	11 20 9	21°46'57	10♂48	28°18	18°27	24°44	12°56	16°22	17° 5	1°32	9°31	0° 7	1°50	4°58	9°56	S 13
M14	11 24 5	22°46'52	23°48	29°44	19°40	25°31	13° 7	16°27	17° 7	1°31	9°32	0° 9	1°47	5° 5	10° 0	M14
T 15	11 28 2	23°46'44	6♂31	1♂12	20°53	26°18	13°19	16°31	17°10	1°29	9°33	0°10	1°43	5°12	10° 4	T 15
W16	11 31 58	24°46'35	18°54	2°41	22° 6	27° 5	13°31	16°35	17°12	1°27	9°34	0°11	1°40	5°18	10° 8	W16
T 17	11 35 55	25°46'25	1♂ 2	4°11	23°19	27°52	13°42	16°39	17°14	1°26	9°35	0°R11	1°37	5°25	10°11	T 17
F 18	11 39 51	26°46'12	13° 0	5°43	24°33	28°39	13°54	16°42	17°17	1°24	9°36	0°10	1°34	5°32	10°15	F 18
S 19	11 43 48	27°45'58	24°53	7°16	25°46	29°26	14° 6	16°46	17°19	1°22	9°37	0° 7	1°31	5°39	10°19	S 19
S 20	11 47 44	28°45'43	6♂44	8°50	26°59	0♂13	14°18	16°50	17°22	1°21	9°38	0° 3	1°28	5°45	10°23	S 20
M21	11 51 41	29°45'25	18°38	10°25	28°12	1° 0	14°30	16°53	17°24	1°19	9°40	29♂58	1°24	5°52	10°27	M21
T 22	11 55 38	0♂45'06	0♂37	12° 2	29°25	1°46	14°42	16°57	17°27	1°17	9°41	29°52	1°21	5°59	10°30	T 22
W23	11 59 34	1°44'44	12°45	13°40	0♂38	2°33	14°54	17° 0	17°30	1°16	9°42	29°47	1°18	6° 6	10°34	W23
T 24	12 3 31	2°44'21	25° 2	15°19	1°52	3°20	15° 7	17° 4	17°32	1°14	9°43	29°43	1°15	6°12	10°38	T 24
F 25	12 7 27	3°43'56	7♂31	16°59	3° 5	4° 6	15°19	17° 7	17°35	1°12	9°44	29°40	1°12	6°19	10°41	F 25
S 26	12 11 24	4°43'28	20°11	18°41	4°18	4°53	15°31	17°10	17°38	1°11	9°45	29°38	1° 8	6°26	10°45	S 26
S 27	12 15 20	5°42'59	3♂ 3	20°24	5°31	5°40	15°44	17°13	17°41	1° 9	9°46	29°D38	1° 5	6°32	10°48	S 27
M28	12 19 17	6°42'28	16° 7	22° 8	6°45	6°26	15°56	17°16	17°43	1° 7	9°47	29°39	1° 2	6°39	10°51	M28
T 29	12 23 13	7°41'54	29°25	23°54	7°58	7°13	16° 9	17°19	17°46	1° 6	9°49	29°40	0°59	6°46	10°55	T 29
W30	12 27 10	8°41'18	12♂56	25°41	9°11	7°59	16°22	17°22	17°49	1° 4	9°50	29°42	0°56	6°53	10°58	W30
T 31	12 31 7	9♂40'40	26♂41	27♂29	10♂24	8♂46	16♂34	17♂25	17♂52	1♂ 3	9♂51	29♂43	0♂M53	6♂59	11♂ 1	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s54	15n56	1s37	17s15	0s23	19s 2	0n14	6s39	0s57	14n10	0s56	21s59	0n34	16n30	0s19	0n30
W 2	7 31	17 59	2 42	17 5	0 32	18 48	0 11	6 21	0 56	14 13	0 56	21 58	0 33	16 30	0 19	0 31
T 3	7 9 19	3 3 40	16 54	0 41	18 34	0 8	6 2	0 56	14 16	0 55	21 57	0 33	16 31	0 19	0 32	1 21
F 4	6 46 19	0 4 25	16 41	0 50	18 19	0 4	5 43	0 56	14 20	0 55	21 57	0 33	16 32	0 19	0 32	1 21
S 5	6 23 17	4 4 56	16 27	0 58	18 3	0 1	5 25	0 55	14 23	0 55	21 56	0 33	16 32	0 19	0 33	1 21
S 6	5 59 15	5 8 16	11 1	1 5 17	47 0s	2 5 6	0 55	14 27	0 55	21 56	0 33	16 33	0 19	0 33	1 21	0 41
M 7	5 36 11	4 9 0	15 54	1 13 17	30 0	5 4 47	0 55	14 30	0 55	21 55	0 33	16 33	0 19	0 34	1 21	0 41
T 8	5 13 7	3 3 41	15 36	1 20 17	13 0	9 4 28	0 54	14 34	0 54	21 55	0 33	16 34	0 19	0 35	1 21	0 40
W 9	4 50 2	5 1 3 43	15 17	1 26 16	55 0	12 4 9	0 54	14 37	0 54	21 54	0 33	16 35	0 19	0 35	1 21	0 40
T 10	4 26 1s59	2 42 14	56 1	33 16	37 0	15 3 50	0 53	14 41	0 54	21 54	0 33	16 35	0 19	0 36	1 21	0 39
F 11	4 3 6 35	1 31 14	34 1	39 16	18 0	18 3 31	0 53	14 44	0 54	21 53	0 33	16 36	0 19	0 37	1 21	0 39
S 12	3 39 10	42 0 16	14 10	1 44 15	59 0	21 3 12	0 52	14 48	0 54	21 53	0 33	16 37	0 19	0 37	1 21	0 38
S 13	3 15 14	7 0n57	13 46	1 49 15	40 0	24 2 53	0 52	14 52	0 53	21 52	0 33	16 37	0 19	0 38	1 21	0 37
M14	2 52 16	41 2 5	13 20	1 54 15	20 0	27 2 34	0 52	14 55	0 53	21 52	0 33	16 38	0 19	0 39	1 21	0 37
T 15	2 28 18	20 3 5	12 53	1 58 14	59 0	30 2 15	0 51	14 59	0 53	21 51	0 33	16 39	0 19	0 39	1 21	0 36
W16	2 4 19	4 3 55	12 25	2 2 14	39 0	32 1 56	0 51	15 3	0 53	21 51	0 33	16 39	0 19	0 40	1 21	0 36
T 17	1 41 18	53 4 33	11 55	2 5 14	17 0	35 1 37	0 50	15 6	0 53	21 50	0 33	16 40	0 19	0 41	1 21	0 35
F 18	1 17 17	51 4 58	11 24	2 9 13	56 0	38 1 18	0 50	15 10	0 53	21 50	0 33	16 41	0 19	0 41	1 22	0 35
S 19	0 53 16	3 5 11	10 52	2 11 13	34 0	41 0 59	0 49	15 14	0 52	21 50	0 33	16 41	0 19	0 42	1 22	0 34
S 20	0 30 13	35 5 10	10 19	2 13 13	11 0	43 0 40	0 49	15 17	0 52	21 49	0 33	16 42	0 19	0 43	1 22	0 34
M21	0 6 10	32 4 56	9 44	2 15 12	49 0	46 0 21	0 48	15 21	0 52	21 49	0 33	16 43	0 19	0 43	1 22	0 33
T 22	0n18	7 3 4 28	9 9	2 16 12	25 0	48 0 2	0 48	15 25	0 52	21 48	0 33	16 44	0 19	0 44	1 22	0 33
W23	0 42 3	14 3 49	8 32	2 17 12	2 0	51 0n17	0 48	15 28	0 52	21 48	0 33	16 44	0 19	0 45	1 22	0 32
T 24	1 5 0n46	2 58 7 54	2 18	11 38	0 53	0 36	0 47	15 32	0 51	21 47	0 33	16 45	0 19	0 45	1 22	0 32
F 25	1 29 4	48 1 59	7 15	2 18 11	14 0	56 0 55	0 47	15 36	0 51	21 47	0 33	16 46	0 19	0 46	1 22	0 31
S 26	1 53 8	41 0 52	6 35	2 17 10	50 0	58 1 14	0 46	15 40	0 51	21 47	0 33	16 47	0 19	0 47	1 22	0 31
S 27	2 16 12	14 0s19	5 53	2 16 10	25 1	0 1 33	0 46	15 43	0 51	21 46	0 33	16 47	0 19	0 47	1 22	0 30
M28	2 40 15	13 1 30	5 11	2 15 10	0 1	2 1 52	0 45	15 47	0 51	21 46	0 33	16 48	0 19	0 48	1 22	0 29
T 29	3 3 17	28 2 37	4 28	2 13 9	34 1	4 2 11	0 45	15 51	0 51	21 46	0 33	16 49	0 19	0 49	1 22	0 29
W30	3 27 18	45 3 36	3 43	2 11 9	9 1	7 2 29	0 44	15 55	0 51	21 45	0 33	16 50	0 19	0 49	1 22	0 28
T 31	3n50	18n58	4s25	2s57	2s 8	8s43	1s 9	2n48	0s44	15n59	0s50	21s45	0n33	16n51	0s19	0n50

Julian Day Number = 2490684.5, Delta T = 96.60 sec
 Ecliptic obliquity = 23°25'24", Nutation = 0°00'10", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°14'15", Lahiri = 25°21'16"

ASTRODIENST EPHEMERIS for the year 2107

geocentric

APRIL 2107

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 35 3	10°40'00	10°40'00	29°19'19	11°38'38	9°32'32	16°47'47	17°27'27	17°55'55	1°R 1	9°52'52	29°R43	0°M49	7°≈ 6	11°≈ 4	F 1
S 2	12 39 0	11°39'17	24°51'51	1°Y10	12°51'51	10°18'18	17° 0'00	17°30'30	17°58'58	0°Δ59	9°53'53	29°Δ43	0°46'46	7°13'13	11° 7'07	S 2
S 3	12 42 56	12°38'32	9°Ω13	3° 2'02	14° 4'04	11° 5'05	17°13'13	17°32'32	18° 1'01	0°58'58	9°55'55	29°42'42	0°43'43	7°19'19	11°10'10	S 3
M 4	12 46 53	13°37'44	23°43'43	4°56'56	15°17'17	11°51'51	17°26'26	17°35'35	18° 4'04	0°56'56	9°56'56	29°40'40	0°40'40	7°26'26	11°13'13	M 4
T 5	12 50 49	14°36'54	8°Π16	6°51'51	16°31'31	12°37'37	17°39'39	17°37'37	18° 7'07	0°54'54	9°57'57	29°38'38	0°37'37	7°33'33	11°16'16	T 5
W 6	12 54 46	15°36'02	22°45'45	8°47'47	17°44'44	13°24'24	17°52'52	17°39'39	18°10'10	0°53'53	9°58'58	29°36'36	0°34'34	7°40'40	11°19'19	W 6
T 7	12 58 42	16°35'08	7°Δ 6	10°45'45	18°57'57	14°10'10	18° 5'05	17°41'41	18°13'13	0°51'51	10° 0'00	29°35'35	0°30'30	7°46'46	11°22'22	T 7
F 8	13 2 39	17°34'11	21°13'13	12°44'44	20°11'11	14°56'56	18°19'19	17°43'43	18°16'16	0°50'50	10° 1'01	29°34'34	0°27'27	7°53'53	11°25'25	F 8
S 9	13 6 35	18°33'13	5°M 2	14°44'44	21°24'24	15°42'42	18°32'32	17°45'45	18°19'19	0°48'48	10° 2'02	29°D34	0°24'24	8° 0'00	11°27'27	S 9
S 10	13 10 32	19°32'13	18°30'30	16°46'46	22°37'37	16°28'28	18°45'45	17°47'47	18°22'22	0°47'47	10° 3'03	29°34'34	0°21'21	8° 7'07	11°30'30	S 10
M 11	13 14 29	20°31'10	1°Δ36	18°48'48	23°51'51	17°14'14	18°58'58	17°48'48	18°25'25	0°45'45	10° 5'05	29°35'35	0°18'18	8°13'13	11°33'33	M 11
T 12	13 18 25	21°30'07	14°21'21	20°52'52	25° 4'04	18° 0'00	19°12'12	17°50'50	18°28'28	0°43'43	10° 6'06	29°36'36	0°14'14	8°20'20	11°35'35	T 12
W 13	13 22 22	22°29'01	26°48'48	22°56'56	26°17'17	18°46'46	19°25'25	17°51'51	18°32'32	0°42'42	10° 7'07	29°37'37	0°11'11	8°27'27	11°38'38	W 13
T 14	13 26 18	23°27'53	8°Σ59	25° 2'02	27°31'31	19°32'32	19°39'39	17°53'53	18°35'35	0°40'40	10° 9'09	29°37'37	0° 8'08	8°33'33	11°40'40	T 14
F 15	13 30 15	24°26'44	21° 0'00	27° 8'08	28°44'44	20°18'18	19°52'52	17°54'54	18°38'38	0°39'39	10°10'10	29°R37	0° 5'05	8°40'40	11°42'42	F 15
S 16	13 34 11	25°25'33	2°≈55	29°14'14	29°57'57	21° 3'03	20° 6'06	17°55'55	18°41'41	0°37'37	10°11'11	29°37'37	0° 2'02	8°47'47	11°45'45	S 16
S 17	13 38 8	26°24'21	14°47'47	1°Δ20	1°Y11	21°49'49	20°19'19	17°56'56	18°45'45	0°36'36	10°13'13	29°37'37	29°Δ59	8°54'54	11°47'47	S 17
M 18	13 42 4	27°23'06	26°43'43	3°27'27	2°24'24	22°35'35	20°33'33	17°57'57	18°48'48	0°35'35	10°14'14	29°37'37	29°55'55	9° 0'00	11°49'49	M 18
T 19	13 46 1	28°21'50	8°Δ45	5°32'32	3°37'37	23°21'21	20°47'47	17°58'58	18°51'51	0°33'33	10°15'15	29°37'37	29°52'52	9° 7'07	11°51'51	T 19
W 20	13 49 58	29°20'32	20°58'58	7°38'38	4°51'51	24° 6'06	21° 0'00	17°59'59	18°54'54	0°32'32	10°17'17	29°D37	29°49'49	9°14'14	11°53'53	W 20
T 21	13 53 54	0°Δ19'12	3°Y24	9°42'42	6° 4'04	24°52'52	21°14'14	18° 0'00	18°58'58	0°30'30	10°18'18	29°37'37	29°46'46	9°20'20	11°55'55	T 21
F 22	13 57 51	1°17'51	16° 6'06	11°45'45	7°18'18	25°37'37	21°28'28	18° 1'01	19° 1'01	0°29'29	10°19'19	29°37'37	29°43'43	9°27'27	11°57'57	F 22
S 23	14 1 47	2°16'28	29° 4'04	13°46'46	8°31'31	26°23'23	21°42'42	18° 1'01	19° 4'04	0°27'27	10°21'21	29°R37	29°40'40	9°34'34	11°58'58	S 23
S 24	14 5 44	3°15'02	12°Δ18	15°45'45	9°44'44	27° 8'08	21°56'56	18° 1'01	19° 8'08	0°26'26	10°22'22	29°37'37	29°36'36	9°41'41	12° 0'00	S 24
M 25	14 9 40	4°13'35	25°48'48	17°42'42	10°58'58	27°54'54	22°10'10	18° 2'02	19°11'11	0°25'25	10°23'23	29°36'36	29°33'33	9°47'47	12° 2'02	M 25
T 26	14 13 37	5°12'06	9°Π31	19°37'37	12°11'11	28°39'39	22°23'23	18° 2'02	19°15'15	0°24'24	10°25'25	29°36'36	29°30'30	9°54'54	12° 3'03	T 26
W 27	14 17 33	6°10'35	23°26'26	21°28'28	13°24'24	29°24'24	22°37'37	18° 2'02	19°18'18	0°22'22	10°26'26	29°35'35	29°27'27	10° 1'01	12° 5'05	W 27
T 28	14 21 30	7° 9'02	7°Σ29	23°17'17	14°38'38	0°Δ10	22°51'51	18°R 2	19°21'21	0°21'21	10°28'28	29°34'34	29°24'24	10° 8'08	12° 6'06	T 28
F 29	14 25 27	8° 7'27	21°39'39	25° 2'02	15°51'51	0°55'55	23° 5'05	18° 2'02	19°25'25	0°20'20	10°29'29	29°34'34	29°20'20	10°14'14	12° 8'08	F 29
S 30	14 29 23	9°Δ 5'49	5°Δ52	26°Δ43	17°Y 5	1°Δ40	23°Δ19	18°Σ 2	19°Δ28	0°Δ19	10°Δ30	29°D34	29°Δ17	10°≈21	12°≈ 9	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
F 1	4n13	18n 2	4s58	2s11	2s 4	8s17	1s10	3n 7	0s43	16n 2	0s50	21s45	0n33	16n51	0s19	0n51	1n22	0s27	16s 0	11s22	11s45	13s32	11s 2	6n40	
S 2	4 36	15 59	5 14	1 23	2 1	7 51	1 12	3 26	0 43	16 6	0 50	21 44	0 33	16 52	0 19	0 51	1 22	0 27	16 0	11 22	11 44	13 30	11 0	6 40	
S 3	4 59	12 56	5 11	0 34	1 56	7 24	1 14	3 44	0 42	16 10	0 50	21 44	0 33	16 53	0 19	0 52	1 22	0 26	16 0	11 21	11 43	13 29	10 59	6 40	
M 4	5 22	9 4	4 48	0n15	1 51	6 57	1 16	4 3	0 41	16 14	0 50	21 44	0 33	16 54	0 19	0 53	1 22	0 26	15 59	11 21	11 42	13 27	10 58	6 41	
T 5	5 45	4 39	4 7	1 6	1 46	6 31	1 17	4 21	0 41	16 17	0 50	21 44	0 33	16 55	0 19	0 53	1 22	0 25	15 59	11 20	11 41	13 26	10 57	6 41	
W 6	6 8	0s 2	3 10	1 57	1 40	6 3	1 19	4 40	0 40	16 21	0 49	21 43	0 33	16 56	0 19	0 54	1 22	0 25	15 59	11 19	11 40	13 24	10 56	6 42	
T 7	6 31	4 40	2 1	2 49	1 34	5 36	1 20	4 58	0 40	16 25	0 49	21 43	0 33	16 57	0 19	0 54	1 22	0 24	15 59	11 19	11 39	13 23	10 55	6 42	
F 8	6 54	8 59	0 46	3 42	1 27	5 9	1 22	5 16	0 39	16 29	0 49	21 43	0 33	16 57	0 19	0 55	1 22	0 24	15 59	11 19	11 37	13 21	10 53	6 42	
S 9	7 16	12 43	0n30	4 35	1 19	4 41	1 23	5 35	0 39	16 33	0 49	21 43	0 33	16 58	0 19	0 56	1 22	0 23	15 59	11 19	11 36	13 19	10 52	6 43	
S 10	7 38	15 40	1 43	5 29	1 11	4 13	1 25	5 53	0 38	16 36	0 49	21 42	0 33	16 59	0 19	0 56	1 22	0 23	15 59	11 19	11 35	13 18	10 51	6 43	
M11	8 1	17 43	2 48	6 24	1 3	3 45	1 26	6 11	0 38	16 40	0 49	21 42	0 33	17 0	0 19	0 57	1 22	0 22	15 58	11 19	11 34	13 16	10 50	6 44	
T 12	8 23	18 48	3 43	7 18	0 54	3 17	1 27	6 29	0 37	16 44	0 49	21 42	0 32	17 1	0 19	0 58	1 22	0 22	15 58	11 19	11 33	13 15	10 49	6 44	
W13	8 45	18 57	4 27	8 13	0 45	2 49	1 28	6 47	0 37	16 48	0 48	21 42	0 32	17 2	0 19	0 58	1 22	0 21	15 58	11 20	11 32	13 13	10 48	6 45	
T 14	9 6	18 11	4 57	9 8	0 35	2 21	1 29	7 5	0 36	16 51	0 48	21 42	0 32	17 3	0 19	0 59	1 22	0 21	15 58	11 20	11 31	13 12	10 47	6 45	
F 15	9 28	16 37	5 13	10 3	0 25	1 53	1 30	7 23	0 35	16 55	0 48	21 41	0 32	17 4	0 19	0 59	1 22	0 20	15 58	11 20	11 30	13 10	10 46	6 45	
S 16	9 50	14 21	5 17	10 58	0 15	1 24	1 31	7 40	0 35	16 59	0 48	21 41	0 32	17 5	0 19	1 0	1 22	0 20	15 58	11 20	11 28	13 8	10 45	6 46	
S 17	10 11	11 30	5 6	11 52	0 4	0 56	1 32	7 58	0 34	17 3	0 48	21 41	0 32	17 5	0 18	1 0	1 21	0 19	15 58	11 20	11 27	13 7	10 44	6 46	
M18	10 32	8 10	4 42	12 45	0n 6	0 27	1 32	8 16	0 34	17 6	0 48	21 41	0 32	17 6	0 18	1 1	1 21	0 19	15 58	11 20	11 26	13 5	10 43	6 47	
T 19	10 53	4 29	4 6	13 38	0 17	0n 1	1 33	8 33	0 33	17 10	0 48	21 41	0 32	17 7	0 18	1 2	1 21	0 18	15 58	11 20	11 25	13 4	10 42	6 47	
W20	11 14	0 32	3 18	14 30	0 28	0 30	1 34	8 50	0 33	17 14	0 48	21 41	0 32	17 8	0 18	1 2	1 21	0 18	15 57	11 20	11 24	13 2	10 41	6 48	
T 21	11 35	3n30	2 20	15 20	0 39	0 58	1 34	9 8	0 32	17 18	0 47	21 41	0 32	17 9	0 18	1 3	1 21	0 17	15 57	11 20	11 23	13 0	10 40	6 48	
F 22	11 55	7 28	1 14	16 9	0 50	1 27	1 34	9 25	0 31	17 21	0 47	21 41	0 32	17 10	0 18	1 3	1 21	0 17	15 57	11 20	11 22	12 59	10 39	6 49	
S 23	12 15	11 11	0 3	16 56	1 1	1 55	1 35	9 42	0 31	17 25	0 47	21 41	0 32	17 11	0 18	1 4	1 21	0 16	15 57	11 20	11 21	12 57	10 38	6 49	
S 24	12 35	14 25	1s10	17 41	1 11	2 24	1 35	9 59	0 30	17 29	0 47	21 41	0 32	17 12	0 18	1 4	1 21	0 16	15 57	11 20	11 20	12 56	10 37	6 49	
M25	12 55	16 55	2 20	18 24	1 22	2 52	1 35	10 15	0 30	17 32	0 47	21 41	0 32	17 13	0 18	1 5	1 21	0 16	15 57	11 20	11 18	12 54	10 36	6 50	
T 26	13 15	18 30	3 24	19 5	1 31	3 21	1 35	10 32	0 29	17 36	0 47	21 41	0 32	17 14	0 18	1 5	1 21	0 15	15 57	11 19	11 17	12 52	10 35	6 50	
W27	13 34	19 0	4 16	19 44	1 41	3 49	1 36	10 49	0 28	17 40	0 47	21 41	0 32	17 15	0 18	1 6	1 21	0 15	15 57	11 19	11 16	12 51	10 34	6 51	
T 28	13 53	18 20	4 54	20 21	1 49	4 16	1 35	11 5	0 28	17 43	0 47	21 41	0 32	17 16	0 18	1 6	1 21	0 14	15 57	11 19	11 15	12 49	10 34	6 51	
F 29	14 12	16 31	5 14	20 55	1 57	4 48	1 35	11 22	0 27	17 47	0 47	21 41	0 32	17 17	0 18	1 7	1 21	0 14	15 57	11 19	11 14	12 48	10 33	6 52	
S 30	14n31	13n42	5s15	21n26	2n 5	5n14	1s35	11n38	0s27	17n50	0s47	21s41	0n32	17n18	0s18	1n 7	1n21	0s13	15s57	11s19	11s13	12s46	10s32	6n52	

ASTRODIENST EPHEMERIS for the year 2107

geocentric

MAY 2107

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 33 20	10♈ 4'10	20♌ 5	28♈21	18♍18	2♈25	23♈33	18°R 2	19♈32	0°R17	10♈32	29♎34	29♎14	10♎28	12♎10	S 1
M 2	14 37 16	11° 2'28	4♍17	29°55	19°31	3°10	23°47	18♈ 1	19°35	0♎16	10°33	29°34	29°11	10°34	12°12	M 2
T 3	14 41 13	12° 0'44	18°25	1♐25	20°45	3°55	24° 1	18° 1	19°39	0°15	10°34	29°35	29° 8	10°41	12°13	T 3
W 4	14 45 9	12°58'58	2♐26	2°50	21°58	4°40	24°15	18° 0	19°42	0°14	10°36	29°36	29° 5	10°48	12°14	W 4
T 5	14 49 6	13°57'10	16°18	4°12	23°11	5°25	24°30	18° 0	19°46	0°13	10°37	29°37	29° 1	10°55	12°15	T 5
F 6	14 53 2	14°55'20	29°59	5°29	24°25	6°10	24°44	17°59	19°49	0°12	10°39	29°R37	28°58	11° 1	12°16	F 6
S 7	14 56 59	15°53'29	13♐27	6°42	25°38	6°54	24°58	17°58	19°52	0°11	10°40	29°37	28°55	11° 8	12°17	S 7
S 8	15 0 56	16°51'36	26°39	7°50	26°52	7°39	25°12	17°57	19°56	0°10	10°41	29°36	28°52	11°15	12°17	S 8
M 9	15 4 52	17°49'41	9♐35	8°54	28° 5	8°24	25°26	17°56	19°59	0° 9	10°43	29°33	28°49	11°21	12°18	M 9
T 10	15 8 49	18°47'45	22°15	9°53	29°18	9° 8	25°40	17°55	20° 3	0° 8	10°44	29°31	28°45	11°28	12°19	T 10
W11	15 12 45	19°45'47	4♐40	10°47	0♐32	9°53	25°54	17°54	20° 6	0° 7	10°45	29°28	28°42	11°35	12°19	W11
T 12	15 16 42	20°43'48	16°51	11°37	1°45	10°38	26° 8	17°52	20°10	0° 6	10°47	29°25	28°39	11°42	12°20	T 12
F 13	15 20 38	21°41'47	28°53	12°22	2°58	11°22	26°23	17°51	20°13	0° 5	10°48	29°22	28°36	11°48	12°20	F 13
S 14	15 24 35	22°39'45	10♐48	13° 2	4°12	12° 7	26°37	17°49	20°17	0° 4	10°49	29°21	28°33	11°55	12°20	S 14
S 15	15 28 31	23°37'42	22°41	13°37	5°25	12°51	26°51	17°48	20°20	0° 3	10°51	29°D20	28°30	12° 2	12°21	S 15
M16	15 32 28	24°35'37	4♐36	14° 7	6°39	13°35	27° 5	17°46	20°24	0° 2	10°52	29°20	28°26	12° 8	12°21	M16
T 17	15 36 25	25°33'31	16°39	14°33	7°52	14°20	27°19	17°44	20°27	0° 1	10°53	29°22	28°23	12°15	12°21	T 17
W18	15 40 21	26°31'24	28°53	14°53	9° 5	15° 4	27°34	17°42	20°31	0° 1	10°55	29°23	28°20	12°22	12°R21	W18
T 19	15 44 18	27°29'16	11♐24	15° 8	10°19	15°48	27°48	17°40	20°34	29♐59	10°56	29°25	28°17	12°29	12°21	T 19
F 20	15 48 14	28°27'06	24°14	15°19	11°32	16°32	28° 2	17°38	20°38	29°59	10°57	29°R26	28°14	12°35	12°21	F 20
S 21	15 52 11	29°24'55	7♐25	15°24	12°46	17°16	28°16	17°36	20°41	29°59	10°59	29°26	28°11	12°42	12°21	S 21
S 22	15 56 7	0♐22'43	20°58	15°R25	13°59	18° 0	28°30	17°34	20°44	29°58	11° 0	29°24	28° 7	12°49	12°21	S 22
M23	16 0 4	1°20'30	4♐52	15°21	15°12	18°44	28°44	17°32	20°48	29°57	11° 1	29°21	28° 4	12°56	12°20	M23
T 24	16 4 0	2°18'15	19° 2	15°12	16°26	19°28	28°59	17°29	20°51	29°57	11° 3	29°17	28° 1	13° 2	12°20	T 24
W25	16 7 57	3°15'59	3♐25	14°59	17°39	20°12	29°13	17°27	20°55	29°56	11° 4	29°12	27°58	13° 9	12°20	W25
T 26	16 11 54	4°13'42	17°55	14°42	18°53	20°56	29°27	17°24	20°58	29°56	11° 5	29° 7	27°55	13°16	12°19	T 26
F 27	16 15 50	5°11'23	2♐25	14°22	20° 6	21°39	29°41	17°22	21° 2	29°55	11° 6	29° 3	27°51	13°22	12°19	F 27
S 28	16 19 47	6° 9'02	16°50	13°58	21°19	22°23	29°55	17°19	21° 5	29°55	11° 8	29° 0	27°48	13°29	12°18	S 28
S 29	16 23 43	7° 6'40	1♐ 7	13°31	22°33	23° 7	0♐ 9	17°16	21° 8	29°54	11° 9	28°D58	27°45	13°36	12°17	S 29
M30	16 27 40	8° 4'16	15°12	13° 2	23°46	23°50	0°23	17°13	21°12	29°54	11°10	28°58	27°42	13°43	12°16	M30
T 31	16 31 36	9♐ 1'51	29♐ 5	12♐30	25♈ 0	24♈34	0♐38	17♈10	21♈15	29♐53	11♈11	28♎59	27♎39	13♎49	12♎16	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
S 1	14n50	10n 5	4s57	21n55	2n12	5n42	1s35	11n54	0s26	17n54	0s46	21s41	0n32	17n18	0s18	1n 8	1n21	0s13	15s57	11s19	11s12	12s44	10s31	6n53					
M 2	15 8	5 53	4 21	22 22	2 18	6 10	1 35	12 10	0 25	17 58	0 46	21 41	0 32	17 19	0 18	1 8	1 21	0 12	15 57	11 19	11 11	12 43	10 30	6 53					
T 3	15 26	1 23	3 29	22 46	2 23	6 38	1 34	12 26	0 25	18 1	0 46	21 41	0 32	17 20	0 18	1 9	1 21	0 12	15 57	11 19	11 9	12 41	10 30	6 54					
W 4	15 43	3s11	2 25	23 7	2 27	7 6	1 34	12 41	0 24	18 5	0 46	21 41	0 32	17 21	0 18	1 9	1 21	0 12	15 57	11 19	11 8	12 40	10 29	6 54					
T 5	16 1	7 32	1 13	23 26	2 31	7 33	1 34	12 57	0 23	18 8	0 46	21 41	0 32	17 22	0 18	1 9	1 21	0 11	15 57	11 20	11 7	12 38	10 28	6 55					
F 6	16 18	11 26	0n 2	23 43	2 33	8 1	1 33	13 12	0 23	18 12	0 46	21 41	0 32	17 23	0 18	1 10	1 21	0 11	15 57	11 20	11 6	12 36	10 27	6 55					
S 7	16 35	14 40	1 16	23 57	2 35	8 28	1 32	13 28	0 22	18 15	0 46	21 42	0 32	17 24	0 18	1 10	1 21	0 10	15 57	11 20	11 5	12 35	10 27	6 56					
S 8	16 52	17 4	2 24	24 9	2 35	8 55	1 32	13 43	0 22	18 19	0 46	21 42	0 32	17 25	0 18	1 11	1 21	0 10	15 57	11 19	11 4	12 33	10 26	6 56					
M 9	17 8	18 32	3 23	24 19	2 35	9 22	1 31	13 58	0 21	18 22	0 46	21 42	0 32	17 26	0 18	1 11	1 21	0 10	15 57	11 19	11 3	12 32	10 25	6 57					
T 10	17 24	19 1	4 11	24 27	2 34	9 49	1 30	14 13	0 20	18 26	0 46	21 42	0 32	17 27	0 18	1 11	1 21	0 9	15 57	11 18	11 2	12 30	10 25	6 57					
W11	17 40	18 35	4 46	24 32	2 31	10 15	1 29	14 27	0 20	18 29	0 45	21 42	0 32	17 28	0 18	1 12	1 21	0 9	15 57	11 16	11 0	12 28	10 24	6 58					
T 12	17 55	17 17	5 7	24 36	2 28	10 42	1 28	14 42	0 19	18 32	0 45	21 42	0 32	17 29	0 18	1 12	1 21	0 9	15 57	11 15	10 59	12 27	10 24	6 58					
F 13	18 11	15 14	5 14	24 38	2 23	11 8	1 27	14 56	0 18	18 36	0 45	21 43	0 32	17 30	0 18	1 12	1 21	0 8	15 57	11 15	10 58	12 25	10 23	6 58					
S 14	18 25	12 34	5 8	24 37	2 18	11 33	1 26	15 11	0 18	18 39	0 45	21 43	0 32	17 31	0 18	1 13	1 21	0 8	15 57	11 14	10 57	12 23	10 23	6 59					
S 15	18 40	9 23	4 49	24 35	2 11	11 59	1 25	15 25	0 17	18 42	0 45	21 43	0 32	17 32	0 18	1 13	1 21	0 8	15 57	11 14	10 56	12 22	10 22	6 59					
M16	18 54	5 49	4 17	24 31	2 3	12 24	1 24	15 39	0 17	18 46	0 45	21 43	0 32	17 33	0 18	1 13	1 21	0 7	15 57	11 14	10 55	12 20	10 21	7 0					
T 17	19 8	1 59	3 34	24 26	1 55	12 49	1 23	15 52	0 16	18 49	0 45	21 44	0 31	17 33	0 18	1 14	1 21	0 7	15 57	11 14	10 54	12 19	10 21	7 0					
W18	19 22	2n 0	2 40	24 18	1 45	13 14	1 21	16 6	0 15	18 52	0 45	21 44	0 31	17 34	0 18	1 14	1 21	0 7	15 57	11 15	10 53	12 17	10 20	7 1					
T 19	19 35	6 0	1 37	24 9	1 34	13 38	1 20	16 19	0 15	18 56	0 45	21 44	0 31	17 35	0 18	1 14	1 21	0 6	15 57	11 15	10 51	12 15	10 20	7 1					
F 20	19 48	9 50	0 28	23 59	1 22	14 2	1 19	16 33	0 14	18 59	0 45	21 45	0 31	17 36	0 18	1 14	1 21	0 6	15 57	11 16	10 50	12 14	10 20	7 2					
S 21	20 1	13 17	0s44	23 47	1 10	14 26	1 17	16 46	0 13	19 2	0 45	21 45	0 31	17 37	0 18	1 15	1 21	0 6	15 57	11 16	10 49	12 12	10 19	7 2					
S 22	20 13	16 8	1 55	23 33	0 56	14 49	1 16	16 59	0 13	19 5	0 45	21 45	0 31	17 38	0 18	1 15	1 21	0 5	15 58	11 15	10 48	12 10	10 19	7 3					
M23	20 25	18 7	3 1	23 18	0 41	15 12	1 14	17 12	0 12	19 8	0 45	21 46	0 31	17 39	0 18	1 15	1 21	0 5	15 58	11 14	10 47	12 9	10 18	7 3					
T 24	20 36	19 1	3 58	23 2	0 26	15 35	1 12	17 24	0 11	19 12	0 44	21 46	0 31	17 40	0 18	1 15	1 21	0 5	15 58	11 13	10 46	12 7	10 18	7 4					
W25	20 48	18 42	4 40	22 45	0 10	15 57	1 11	17 37	0 11	19 15	0 44	21 46	0 31	17 41	0 18	1 15	1 21	0 5	15 58	11 11	10 45	12 6	10 18	7 4					
T 26	20 59	17 11	5 5	22 27	0s 6	16 19	1 9	17 49	0 10	19 18	0 44	21 47	0 31	17 42	0 18	1 16	1 21	0 4	15 58	11 9	10 43	12 4	10 17	7 5					
F 27	21 9	14 34	5 10	22 7	0 23	16 40	1 7	18 1	0 9	19 21	0 44	21 47	0 31	17 43	0 18	1 16	1 21	0 4	15 58	11 8	10 42	12 2	10 17	7 5					
S 28	21 19	11 4	4 56	21 47	0 41	17 1	1 6	18 13	0 9	19 24	0 44	21 47	0 31	17 43	0 18	1 16	1 20	0 4	15 58	11 7	10 41	12 1	10 17	7 6					
S 29	21 29	6 58	4 24	21 27	0 58	17 22	1 4	18 24	0 8	19 27	0 44	21 48	0 31	17 44	0 18	1 16	1 20	0 3	15 58	11 6	10 40	11 59	10 17	7 6					
M30	21 38	2 31	3 36	21 6	1 16	17 42	1 2	18 36	0 7	19 30	0 44	21 48	0 31	17 45	0 18	1 16	1 20	0 3	15 58	11 6	10 39	11 57	10 16	7 6					
T 31	21n47	2s 1	2s35	20n44	1s33	18n 2	1s 0	18n47	0s 7	19n33	0s44	21s49	0n31	17n46	0s18	1n16	1n20	0s 3	15s59	11s 6	10s38	11s56	10s16	7n 7					

ASTRODIENST EPHEMERIS for the year 2107
geocentric

JULY 2107

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 33 50	8♌39°54	19♍23	16♊53	2♌58	16♊36	7♎41	15°R12	22♏50	29♐58	11♑44	27°R 4	26♒0	17♓17	11°R19	F 1
S 2	18 37 46	9°37'07	2♊8	18° 6	4°12	17°18	7°54	15♌7	22°52	29°58	11°45	27♒0	25°57	17°24	11♓17	S 2
S 3	18 41 43	10°34'18	14°42	19°22	5°26	17°59	8° 7	15° 3	22°55	29°59	11°46	26°53	25°54	17°31	11°14	S 3
M 4	18 45 39	11°31'30	27° 6	20°43	6°39	18°41	8°20	14°59	22°57	29°59	11°46	26°43	25°51	17°38	11°11	M 4
T 5	18 49 36	12°28'41	9♌22	22° 7	7°53	19°23	8°33	14°54	23° 0	0♒1	11°47	26°31	25°48	17°44	11° 8	T 5
W 6	18 53 32	13°25'53	21°29	23°34	9° 7	20° 4	8°46	14°50	23° 2	0° 1	11°48	26°18	25°44	17°51	11° 5	W 6
T 7	18 57 29	14°23'04	3♌30	25° 6	10°20	20°46	8°58	14°45	23° 5	0° 2	11°49	26° 5	25°41	17°58	11° 3	T 7
F 8	19 1 26	15°20'15	15°25	26°41	11°34	21°27	9°11	14°41	23° 7	0° 3	11°49	25°53	25°38	18° 4	11° 0	F 8
S 9	19 5 22	16°17'27	27°17	28°19	12°48	22° 8	9°24	14°36	23°10	0° 4	11°50	25°43	25°35	18°11	10°57	S 9
S 10	19 9 19	17°14'38	9♎7	0♌1	14° 1	22°50	9°36	14°32	23°12	0° 5	11°51	25°35	25°32	18°18	10°54	S 10
M 11	19 13 15	18°11'50	21° 0	1°46	15°15	23°31	9°49	14°28	23°14	0° 6	11°51	25°30	25°29	18°25	10°51	M 11
T 12	19 17 12	19° 9'03	2♎59	3°34	16°29	24°12	10° 1	14°23	23°17	0° 7	11°52	25°28	25°25	18°31	10°48	T 12
W 13	19 21 8	20° 6'15	15°10	5°25	17°43	24°53	10°14	14°19	23°19	0° 8	11°53	25°27	25°22	18°38	10°45	W 13
T 14	19 25 5	21° 3'28	27°37	7°19	18°56	25°34	10°26	14°14	23°21	0° 9	11°53	25°27	25°19	18°45	10°42	T 14
F 15	19 29 1	22° 0'42	10♌26	9°16	20°10	26°15	10°38	14°10	23°23	0°10	11°54	25°27	25°16	18°51	10°38	F 15
S 16	19 32 58	22°57'56	23°41	11°15	21°24	26°56	10°50	14° 6	23°26	0°11	11°54	25°25	25°13	18°58	10°35	S 16
S 17	19 36 54	23°55'11	7♎25	13°16	22°38	27°37	11° 2	14° 1	23°28	0°12	11°55	25°21	25° 9	19° 5	10°32	S 17
M 18	19 40 51	24°52'26	21°37	15°19	23°52	28°18	11°15	13°57	23°30	0°13	11°55	25°14	25° 6	19°12	10°29	M 18
T 19	19 44 48	25°49'42	6♌17	17°24	25° 6	28°59	11°26	13°53	23°32	0°14	11°56	25° 5	25° 3	19°18	10°26	T 19
W 20	19 48 44	26°46'58	21°17	19°30	26°19	29°40	11°38	13°48	23°34	0°15	11°56	24°54	25° 0	19°25	10°23	W 20
T 21	19 52 41	27°44'15	6♎29	21°37	27°33	0♌21	11°50	13°44	23°36	0°17	11°57	24°43	24°57	19°32	10°19	T 21
F 22	19 56 37	28°41'32	21°42	23°45	28°47	1° 1	12° 2	13°40	23°38	0°18	11°57	24°33	24°54	19°38	10°16	F 22
S 23	20 0 34	29°38'49	6♐44	25°53	0♎1	1°42	12°14	13°36	23°39	0°19	11°58	24°25	24°50	19°45	10°13	S 23
S 24	20 4 30	0♎36°07	21°28	28° 1	1°15	2°23	12°25	13°32	23°41	0°20	11°58	24°20	24°47	19°52	10° 9	S 24
M 25	20 8 27	1°33'25	5♒49	0♎9	2°29	3° 3	12°37	13°27	23°43	0°22	11°59	24°17	24°44	19°59	10° 6	M 25
T 26	20 12 23	2°30'43	19°45	2°16	3°43	3°44	12°48	13°23	23°45	0°23	11°59	24°D17	24°41	20° 5	10° 3	T 26
W 27	20 16 20	3°28'01	3♎15	4°23	4°57	4°24	12°59	13°19	23°46	0°24	11°59	24°R17	24°38	20°12	9°59	W 27
T 28	20 20 17	4°25'20	16°24	6°29	6°11	5° 4	13°10	13°15	23°48	0°26	12° 0	24°16	24°35	20°19	9°56	T 28
F 29	20 24 13	5°22'39	29°13	8°34	7°25	5°45	13°22	13°11	23°50	0°27	12° 0	24°14	24°31	20°25	9°53	F 29
S 30	20 28 10	6°19'59	11♌47	10°37	8°38	6°25	13°33	13° 8	23°51	0°29	12° 0	24°10	24°28	20°32	9°49	S 30
S 31	20 32 6	7♎17°19	24♌9	12♎40	9♎52	7♌5	13♎44	13♌4	23♌53	0♒30	12♒0	24♒3	24♒25	20♓39	9♓46	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	decl	lat	decl	lat
F 1	23n 8	15s43	1n55	20n 4	2s43	23n34	0n11	22n59	0n14	20n52	0s43	22s 5	0n29	18n10	0s18	1n14	1n19	0n 0	16s 5	10s25	10s 2	11s 4	10s20	7n19											
S 2	23 4	17 43	2 54	20 22	2 32	23 35	0 13	23 3	0 14	20 54	0 43	22 5	0 29	18 11	0 18	1 13	1 19	0 0	16 5	10 24	10 1	11 2	10 21	7 19											
S 3	23 0	18 50	3 44	20 40	2 20	23 34	0 16	23 8	0 15	20 57	0 43	22 6	0 29	18 12	0 18	1 13	1 19	0 0	16 5	10 21	10 0	11 1	10 21	7 19											
M 4	22 55	19 2	4 22	20 58	2 8	23 33	0 18	23 12	0 16	20 59	0 43	22 6	0 29	18 12	0 18	1 13	1 19	0 0	16 5	10 18	9 59	10 59	10 21	7 19											
T 5	22 50	18 19	4 47	21 15	1 56	23 31	0 20	23 16	0 16	21 1	0 43	22 7	0 29	18 13	0 18	1 12	1 19	0 0	16 6	10 13	9 58	10 57	10 22	7 20											
W 6	22 45	16 47	4 59	21 32	1 44	23 29	0 22	23 20	0 17	21 3	0 43	22 8	0 28	18 14	0 18	1 12	1 19	0 0	16 6	10 9	9 56	10 56	10 22	7 20											
T 7	22 39	14 31	4 58	21 49	1 31	23 26	0 25	23 24	0 18	21 5	0 43	22 8	0 28	18 14	0 18	1 12	1 19	0 0	16 6	10 4	9 55	10 54	10 23	7 20											
F 8	22 33	11 41	4 43	22 4	1 19	23 22	0 27	23 27	0 18	21 7	0 43	22 9	0 28	18 15	0 18	1 11	1 19	0 0	16 7	10 0	9 54	10 52	10 24	7 20											
S 9	22 26	8 23	4 17	22 19	1 6	23 18	0 29	23 30	0 19	21 9	0 43	22 9	0 28	18 16	0 18	1 11	1 19	0 0	16 7	9 56	9 53	10 51	10 24	7 20											
S 10	22 19	4 46	3 39	22 32	0 54	23 12	0 31	23 33	0 20	21 10	0 43	22 10	0 28	18 16	0 18	1 11	1 19	0 0	16 7	9 53	9 52	10 49	10 25	7 21											
M 11	22 11	0 56	2 51	22 44	0 41	23 7	0 34	23 36	0 20	21 12	0 43	22 10	0 28	18 17	0 18	1 10	1 19	0s 0	16 7	9 51	9 51	10 47	10 25	7 21											
T 12	22 3	2n58	1 56	22 54	0 29	23 0	0 36	23 39	0 21	21 14	0 43	22 11	0 28	18 17	0 18	1 10	1 19	0 0	16 8	9 50	9 50	10 45	10 26	7 21											
W 13	21 55	6 48	0 54	23 2	0 16	22 53	0 38	23 41	0 22	21 16	0 43	22 12	0 28	18 18	0 18	1 9	1 19	0 0	16 8	9 50	9 48	10 44	10 27	7 21											
T 14	21 47	10 27	0s12	23 9	0 4	22 45	0 40	23 43	0 22	21 18	0 43	22 12	0 28	18 18	0 18	1 9	1 19	0 0	16 8	9 50	9 47	10 42	10 27	7 21											
F 15	21 38	13 42	1 18	23 13	0n 7	22 36	0 42	23 45	0 23	21 19	0 43	22 13	0 28	18 19	0 18	1 8	1 19	0 0	16 9	9 50	9 46	10 40	10 28	7 22											
S 16	21 28	16 22	2 23	23 15	0 18	22 27	0 44	23 47	0 24	21 21	0 43	22 13	0 28	18 19	0 18	1 8	1 19	0 0	16 9	9 49	9 45	10 39	10 29	7 22											
S 17	21 18	18 12	3 22	23 15	0 29	22 17	0 46	23 48	0 24	21 23	0 43	22 14	0 27	18 20	0 18	1 8	1 19	0 0	16 9	9 48	9 44	10 37	10 29	7 22											
M 18	21 8	18 59	4 11	23 12	0 39	22 7	0 48	23 50	0 25	21 24	0 43	22 14	0 27	18 20	0 18	1 7	1 19	0 0	16 9	9 45	9 43	10 35	10 30	7 22											
T 19	20 58	18 32	4 45	23 6	0 49	21 55	0 50	23 51	0 26	21 26	0 43	22 15	0 27	18 21	0 18	1 7	1 19	0 0	16 10	9 42	9 41	10 34	10 31	7 22											
W 20	20 47	16 48	5 0	22 58	0 58	21 43	0 52	23 52	0 26	21 28	0 43	22 15	0 27	18 21	0 18	1 6	1 19	0 0	16 10	9 38	9 40	10 32	10 31	7 22											
T 21	20 36	13 53	4 54	22 47	1 6	21 31	0 54	23 52	0 27	21 29	0 43	22 16	0 27	18 22	0 18	1 6	1 19	0 0	16 10	9 34	9 39	10 30	10 32	7 22											
F 22	20 24	10 2	4 28	22 33	1 14	21 18	0 56	23 53	0 28	21 31	0 43	22 16	0 27	18 22	0 18	1 5	1 19	0 0	16 11	9 30	9 38	10 28	10 33	7 22											
S 23	20 13	5 35	3 43	22 16	1 20	21 4	0 57	23 53	0 28	21 32	0 43	22 17	0 27	18 23	0 18	1 4	1 18	0 2	16 11	9 28	9 37	10 27	10 34	7 22											
S 24	20 0	0 52	2 44	21 57	1 26	20 50	0 59	23 53	0 29	21 34	0 43	22 18	0 27	18 23	0 18	1 4	1 18	0 2	16 11	9 26	9 36	10 25	10 34	7 23											
M 25	19 48	3s47	1 36	21 36	1 32	20 35	1 1	23 53	0 30	21 35	0 43	22 18	0 27	18 24	0 18	1 3	1 18	0 2	16 12	9 25	9 34	10 23	10 35	7 23											
T 26	19 35	8 5	0 24	21 12	1 36	20 19	1 3	23 52	0 30	21 37	0 43	22 19	0 27	18 24	0 18	1 3	1 18	0 2	16 12	9 24	9 33	10 22	10 36	7 23											
W 27	19 22	11 51	0n47	20 46	1 40	20 3	1 4	23 52	0 31	21 38	0 43	22 19	0 26	18 25	0 18	1 2	1 18	0 2	16 12	9 24	9 32	10 20	10 37	7 23											
T 28	19 9	14 54	1 54	20 18	1 43	19 47	1 6	23 51	0 32	21 40	0 43	22 20	0 26	18 25	0 18	1 2	1 18	0 3	16 12	9 24	9 31	10 18	10 38	7 23											
F 29	18 55	17 9	2 54	19 48	1 45	19 29	1 7	23 50	0 32	21 41	0 43	22 20	0 26	18 25	0 18	1 1	1 18	0 3	16 13	9 24	9 30	10 16	10 39	7 23											
S 30	18 41	18 30	3 43	19 16	1 46	19 12	1 9	23 49	0 33	21 42	0 43	22 21	0 26	18 26	0 18	1 0	1 18	0 3	16 13	9 22	9 29	10 15	10 39	7 23											
S 31	18n26	18s56	4n22	18n42	1n47	18n53	1n10	23n48	0n34	21n44	0s43	22s21	0n26	18n26	0s18	1n 0	1n18	0s 3	16s13	9s19	9s27	10s13	10s40	7n23											

ASTRODIENST EPHEMERIS for the year 2107

geocentric

AUGUST 2107

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 36 3	8♌14'40	6♋21	14♌41	11♌6	7♋45	13♌54	13°R 0	23♋54	0♌32	12♋1	23°R53	24♌22	20♌46	9°R43	M 1
T 2	20 39 59	9°12'01	18°26	16°40	12°20	8°25	14°5	12♋56	23°56	0°33	12°1	23♌42	24°19	20°52	9°39	T 2
W 3	20 43 56	10° 9'23	0♌25	18°38	13°34	9°5	14°16	12°52	23°57	0°35	12°1	23°29	24°15	20°59	9°36	W 3
T 4	20 47 53	11° 6'46	12°20	20°35	14°48	9°45	14°26	12°49	23°58	0°36	12°1	23°16	24°12	21°6	9°33	T 4
F 5	20 51 49	12° 4'09	24°12	22°30	16°2	10°25	14°37	12°45	24°0	0°38	12°1	23°4	24°9	21°12	9°29	F 5
S 6	20 55 46	13° 1'34	6♋3	24°23	17°16	11°5	14°47	12°42	24°1	0°39	12°2	22°54	24°6	21°19	9°26	S 6
S 7	20 59 42	13°58'59	17°55	26°15	18°30	11°45	14°57	12°38	24°2	0°41	12°2	22°47	24°3	21°26	9°23	S 7
M 8	21 3 39	14°56'26	29°49	28°5	19°44	12°24	15°8	12°35	24°3	0°43	12°2	22°42	24°0	21°32	9°19	M 8
T 9	21 7 35	15°53'54	11°51	29°54	20°59	13°4	15°18	12°32	24°4	0°44	12°2	22°39	23°56	21°39	9°16	T 9
W10	21 11 32	16°51'22	24°3	1♏41	22°13	13°44	15°27	12°28	24°5	0°46	12°2	22°D39	23°53	21°46	9°13	W10
T 11	21 15 28	17°48'53	6♋30	3°27	23°27	14°23	15°37	12°25	24°6	0°48	12°2	22°39	23°50	21°53	9°9	T 11
F 12	21 19 25	18°46'24	19°16	5°10	24°41	15°3	15°47	12°22	24°7	0°50	12°R 2	22°R40	23°47	21°59	9°6	F 12
S 13	21 23 21	19°43'58	2♏26	6°53	25°55	15°42	15°57	12°19	24°8	0°51	12°2	22°39	23°44	22°6	9°3	S 13
S 14	21 27 18	20°41'32	16°4	8°34	27°9	16°22	16°6	12°16	24°9	0°53	12°2	22°36	23°40	22°13	8°59	S 14
M15	21 31 15	21°39'08	0♌10	10°13	28°23	17°1	16°15	12°13	24°10	0°55	12°2	22°31	23°37	22°19	8°56	M15
T 16	21 35 11	22°36'45	14°45	11°51	29°37	17°40	16°25	12°10	24°11	0°57	12°2	22°25	23°34	22°26	8°53	T 16
W17	21 39 8	23°34'24	29°42	13°27	0♏51	18°20	16°34	12°7	24°11	0°59	12°2	22°16	23°31	22°33	8°50	W17
T 18	21 43 4	24°32'04	14♌55	15°2	2°5	18°59	16°43	12°5	24°12	1°0	12°2	22°8	23°28	22°40	8°46	T 18
F 19	21 47 1	25°29'46	0♏13	16°35	3°20	19°38	16°52	12°2	24°13	1°2	12°2	22°0	23°25	22°46	8°43	F 19
S 20	21 50 57	26°27'28	15°25	18°7	4°34	20°17	17°1	11°59	24°13	1°4	12°1	21°53	23°21	22°53	8°40	S 20
S 21	21 54 54	27°25'12	0♌20	19°37	5°48	20°56	17°9	11°57	24°14	1°6	12°1	21°49	23°18	23°0	8°37	S 21
M22	21 58 50	28°22'57	14°52	21°6	7°2	21°35	17°18	11°55	24°14	1°8	12°1	21°48	23°15	23°6	8°34	M22
T 23	22 2 47	29°20'43	28°57	22°33	8°16	22°14	17°26	11°52	24°15	1°10	12°1	21°D48	23°12	23°13	8°31	T 23
W24	22 6 44	0♏18'30	12♏35	23°59	9°30	22°53	17°34	11°50	24°15	1°12	12°1	21°49	23°9	23°20	8°28	W24
T 25	22 10 40	1°16'18	25°47	25°23	10°45	23°32	17°42	11°48	24°15	1°14	12°0	21°R49	23°6	23°26	8°25	T 25
F 26	22 14 37	2°14'08	8♌37	26°45	11°59	24°11	17°50	11°46	24°15	1°16	12°0	21°49	23°2	23°33	8°22	F 26
S 27	22 18 33	3°11'58	21°7	28°6	13°13	24°49	17°58	11°44	24°16	1°18	12°0	21°48	22°59	23°40	8°19	S 27
S 28	22 22 30	4° 9'50	3♋24	29°25	14°27	25°28	18°6	11°42	24°16	1°20	11°59	21°44	22°56	23°47	8°16	S 28
M29	22 26 26	5° 7'43	15°30	0♌43	15°41	26°7	18°13	11°40	24°16	1°22	11°59	21°38	22°53	23°53	8°13	M29
T 30	22 30 23	6° 5'38	27°28	1°58	16°56	26°45	18°21	11°39	24°16	1°24	11°59	21°31	22°50	24°0	8°10	T 30
W31	22 34 19	7♏3'33	9♌22	3♌12	18♏10	27♋24	18♏28	11♋37	24°R16	1♌26	11♋58	21♌23	22♌46	24♌7	8♌8	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n12	18s29	4n47	18n7	1n47	18n34	1n11	23n46	0n34	21n45	0s43	22s21	0n26	18n26	0s18	0n59
T 2	17 57	17 12	5 0	17 31	1 46	18 15	1 13	23 44	0 35	21 46	0 43	22 22	0 26	18 27	0 18	0 59
W 3	17 41	15 11	4 59	16 53	1 45	17 55	1 14	23 42	0 35	21 47	0 43	22 22	0 26	18 27	0 18	0 58
T 4	17 26	12 32	4 45	16 15	1 43	17 35	1 15	23 40	0 36	21 49	0 43	22 23	0 26	18 27	0 18	0 57
F 5	17 10	9 23	4 18	15 35	1 40	17 14	1 16	23 38	0 37	21 50	0 43	22 23	0 26	18 28	0 18	0 57
S 6	16 54	5 52	3 41	14 55	1 37	16 52	1 17	23 35	0 37	21 51	0 43	22 24	0 25	18 28	0 18	0 56
S 7	16 37	2 7	2 54	14 14	1 34	16 31	1 18	23 32	0 38	21 52	0 43	22 24	0 25	18 28	0 18	0 55
M 8	16 21	1n44	1 58	13 32	1 30	16 8	1 19	23 29	0 39	21 53	0 43	22 25	0 25	18 29	0 18	0 55
T 9	16 4	5 34	0 57	12 50	1 25	15 46	1 20	23 26	0 39	21 54	0 43	22 25	0 25	18 29	0 18	0 54
W10	15 46	9 12	0s7	12 7	1 21	15 22	1 21	23 23	0 40	21 55	0 43	22 25	0 25	18 29	0 18	0 53
T 11	15 29	12 31	1 13	11 24	1 15	14 59	1 22	23 19	0 41	21 56	0 43	22 26	0 25	18 29	0 18	0 53
F 12	15 11	15 20	2 17	10 41	1 10	14 35	1 22	23 16	0 41	21 57	0 43	22 26	0 25	18 30	0 18	0 52
S 13	14 53	17 26	3 16	9 58	1 3	14 11	1 23	23 12	0 42	21 58	0 43	22 27	0 25	18 30	0 18	0 51
S 14	14 35	18 37	4 5	9 14	0 57	13 46	1 24	23 8	0 43	21 59	0 43	22 27	0 25	18 30	0 18	0 50
M15	14 17	18 43	4 42	8 31	0 50	13 21	1 24	23 3	0 43	22 0	0 43	22 27	0 24	18 30	0 18	0 50
T 16	13 58	17 36	5 2	7 47	0 43	12 55	1 25	22 59	0 44	22 1	0 43	22 28	0 24	18 30	0 18	0 49
W17	13 39	15 16	5 2	7 4	0 36	12 29	1 25	22 54	0 45	22 2	0 43	22 28	0 24	18 31	0 18	0 48
T 18	13 20	11 52	4 41	6 20	0 29	12 3	1 25	22 50	0 45	22 3	0 43	22 28	0 24	18 31	0 18	0 47
F 19	13 1	7 38	4 0	5 37	0 21	11 37	1 26	22 45	0 46	22 4	0 43	22 29	0 24	18 31	0 18	0 47
S 20	12 41	2 57	3 2	4 54	0 13	11 10	1 26	22 40	0 47	22 5	0 43	22 29	0 24	18 31	0 18	0 46
S 21	12 22	1s51	1 53	4 11	0 5	10 43	1 26	22 34	0 47	22 5	0 43	22 30	0 24	18 31	0 18	0 45
M22	12 2	6 25	0 37	3 29	0s3	10 15	1 26	22 29	0 48	22 6	0 43	22 30	0 24	18 31	0 18	0 44
T 23	11 42	10 30	0n38	2 46	0 12	9 48	1 26	22 23	0 48	22 7	0 43	22 30	0 24	18 31	0 18	0 44
W24	11 21	13 52	1 50	2 5	0 21	9 20	1 26	22 17	0 49	22 8	0 43	22 30	0 23	18 31	0 18	0 43
T 25	11 1	16 24	2 53	1 23	0 29	8 51	1 26	22 11	0 50	22 8	0 43	22 31	0 23	18 31	0 18	0 42
F 26	10 40	18 1	3 45	0 42	0 38	8 23	1 26	22 5	0 50	22 9	0 43	22 31	0 23	18 32	0 18	0 41
S 27	10 20	18 43	4 25	0 2	0 47	7 54	1 25	21 59	0 51	22 10	0 43	22 31	0 23	18 32	0 18	0 40
S 28	9 59	18 30	4 52	0s38	0 56	7 25	1 25	21 53	0 52	22 10	0 43	22 32	0 23	18 32	0 18	0 40
M29	9 37	17 27	5 6	1 17	1 5	6 56	1 25	21 46	0 52	22 11	0 43	22 32	0 23	18 32	0 18	0 39
T 30	9 16	15 39	5 6	1 55	1 15	6 27	1 24	21 39	0 53	22 12	0 43	22 32	0 23	18 32	0 18	0 38
W31	8n55	13s11	4n53	2s33	1s24	5n58	1n24	21n33	0n54	22n12	0s43	22s32	0n23	18n32	0s18	0n37

Julian Day Number = 2490837.5, Delta T = 96.80 sec

Ecliptic obliquity = 23°25'22", Nutation = 0°00'09", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°14'36", Lahiri = 25°21'37"

ASTRODIENST EPHEMERIS for the year 2107

geocentric

SEPTEMBER 2107

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 38 16	8 ^h 1'31	21 ^h 14	4 ^h 24	19 ^h 24	28 ^h 2	18 ^h 35	11 ^h R36	24 ^h R16	1 ^h 28	11 ^h R58	21 ^h R14	22 ^h 43	24 ^h 13	8 ^h R 5	T 1	
F 2	22 42 13	8 ^h 59'29	3 ^h 15	5 ^h 34	20 ^h 38	28 ^h 40	18 ^h 42	11 ^h 34	24 ^h 16	1 ^h 30	11 ^h 58	21 ^h 7	22 ^h 40	24 ^h 20	8 ^h 2	F 2	
S 3	22 46 9	9 ^h 57'29	14 ^h 59	6 ^h 42	21 ^h 52	29 ^h 19	18 ^h 49	11 ^h 33	24 ^h 16	1 ^h 32	11 ^h 57	21 ^h 0	22 ^h 37	24 ^h 27	8 ^h 0	S 3	
S 4	22 50 6	10 ^h 55'31	26 ^h 55	7 ^h 47	23 ^h 7	29 ^h 57	18 ^h 55	11 ^h 32	24 ^h 16	1 ^h 34	11 ^h 57	20 ^h 56	22 ^h 34	24 ^h 33	7 ^h 57	S 4	
M 5	22 54 2	11 ^h 53'35	8 ^h 57	8 ^h 51	24 ^h 21	0 ^h 35	19 ^h 2	11 ^h 31	24 ^h 15	1 ^h 37	11 ^h 56	20 ^h 53	22 ^h 31	24 ^h 40	7 ^h 54	M 5	
T 6	22 57 59	12 ^h 51'40	21 ^h 6	9 ^h 52	25 ^h 35	1 ^h 13	19 ^h 8	11 ^h 30	24 ^h 15	1 ^h 39	11 ^h 56	20 ^h D53	22 ^h 27	24 ^h 47	7 ^h 52	T 6	
W 7	23 1 55	13 ^h 49'47	3 ^h 26	10 ^h 50	26 ^h 49	1 ^h 51	19 ^h 15	11 ^h 29	24 ^h 15	1 ^h 41	11 ^h 55	20 ^h 53	22 ^h 24	24 ^h 54	7 ^h 49	W 7	
T 8	23 5 52	14 ^h 47'56	15 ^h 59	11 ^h 46	28 ^h 4	2 ^h 29	19 ^h 21	11 ^h 28	24 ^h 14	1 ^h 43	11 ^h 55	20 ^h 55	22 ^h 21	25 ^h 0	7 ^h 47	T 8	
F 9	23 9 48	15 ^h 46'08	28 ^h 48	12 ^h 39	29 ^h 18	3 ^h 7	19 ^h 26	11 ^h 27	24 ^h 14	1 ^h 45	11 ^h 54	20 ^h 56	22 ^h 18	25 ^h 7	7 ^h 45	F 9	
S 10	23 13 45	16 ^h 44'21	11 ^h 57	13 ^h 29	0 ^h 32	3 ^h 45	19 ^h 32	11 ^h 26	24 ^h 13	1 ^h 47	11 ^h 54	20 ^h R57	22 ^h 15	25 ^h 14	7 ^h 42	S 10	
S 11	23 17 42	17 ^h 42'36	25 ^h 30	14 ^h 15	1 ^h 46	4 ^h 23	19 ^h 38	11 ^h 26	24 ^h 13	1 ^h 49	11 ^h 53	20 ^h 57	22 ^h 12	25 ^h 20	7 ^h 40	S 11	
M12	23 21 38	18 ^h 40'53	9 ^h 27	14 ^h 59	3 ^h 0	5 ^h 1	19 ^h 43	11 ^h 25	24 ^h 12	1 ^h 52	11 ^h 52	20 ^h 56	22 ^h 8	25 ^h 27	7 ^h 38	M12	
T 13	23 25 35	19 ^h 39'13	23 ^h 48	15 ^h 38	4 ^h 15	5 ^h 39	19 ^h 48	11 ^h 25	24 ^h 12	1 ^h 54	11 ^h 52	20 ^h 53	22 ^h 5	25 ^h 34	7 ^h 36	T 13	
W14	23 29 31	20 ^h 37'34	8 ^h 30	16 ^h 13	5 ^h 29	6 ^h 16	19 ^h 53	11 ^h 25	24 ^h 11	1 ^h 56	11 ^h 51	20 ^h 49	22 ^h 2	25 ^h 40	7 ^h 34	W14	
T 15	23 33 28	21 ^h 35'58	23 ^h 29	16 ^h 44	6 ^h 43	6 ^h 54	19 ^h 58	11 ^h 25	24 ^h 10	1 ^h 58	11 ^h 51	20 ^h 45	22 ^h 59	25 ^h 47	7 ^h 32	T 15	
F 16	23 37 24	22 ^h 34'23	8 ^h 35	17 ^h 10	7 ^h 57	7 ^h 31	20 ^h 3	11 ^h D25	24 ^h 9	2 ^h 0	11 ^h 50	20 ^h 41	21 ^h 56	25 ^h 54	7 ^h 30	F 16	
S 17	23 41 21	23 ^h 32'51	23 ^h 40	17 ^h 32	9 ^h 12	8 ^h 9	20 ^h 7	11 ^h 25	24 ^h 9	2 ^h 3	11 ^h 49	20 ^h 38	21 ^h 52	26 ^h 1	7 ^h 28	S 17	
S 18	23 45 17	24 ^h 31'20	8 ^h 34	17 ^h 48	10 ^h 26	8 ^h 46	20 ^h 12	11 ^h 25	24 ^h 8	2 ^h 5	11 ^h 49	20 ^h 36	21 ^h 49	26 ^h 7	7 ^h 26	S 18	
M19	23 49 14	25 ^h 29'51	23 ^h 10	17 ^h 58	11 ^h 40	9 ^h 24	20 ^h 16	11 ^h 25	24 ^h 7	2 ^h 7	11 ^h 48	20 ^h D36	21 ^h 46	26 ^h 14	7 ^h 24	M19	
T 20	23 53 10	26 ^h 28'23	7 ^h 21	18 ^h R 3	12 ^h 54	10 ^h 1	20 ^h 20	11 ^h 25	24 ^h 6	2 ^h 9	11 ^h 47	20 ^h 36	21 ^h 43	26 ^h 21	7 ^h 22	T 20	
W21	23 57 7	27 ^h 26'58	21 ^h 6	18 ^h 1	14 ^h 9	10 ^h 38	20 ^h 24	11 ^h 26	24 ^h 5	2 ^h 11	11 ^h 46	20 ^h 38	21 ^h 40	26 ^h 27	7 ^h 20	W21	
T 22	0 1 4	28 ^h 25'34	4 ^h 25	17 ^h 53	15 ^h 23	11 ^h 15	20 ^h 27	11 ^h 26	24 ^h 4	2 ^h 14	11 ^h 46	20 ^h 39	21 ^h 37	26 ^h 34	7 ^h 19	T 22	
F 23	0 5 0	29 ^h 24'12	17 ^h 20	17 ^h 37	16 ^h 37	11 ^h 53	20 ^h 31	11 ^h 27	24 ^h 3	2 ^h 16	11 ^h 45	20 ^h 40	21 ^h 33	26 ^h 41	7 ^h 17	F 23	
S 24	0 8 57	0 ^h 22'52	29 ^h 53	17 ^h 15	17 ^h 51	12 ^h 30	20 ^h 34	11 ^h 28	24 ^h 1	2 ^h 18	11 ^h 44	20 ^h R41	21 ^h 30	26 ^h 47	7 ^h 16	S 24	
S 25	0 12 53	1 ^h 21'33	12 ^h 31	16 ^h 45	19 ^h 6	13 ^h 7	20 ^h 37	11 ^h 28	24 ^h 0	2 ^h 20	11 ^h 43	20 ^h 41	21 ^h 27	26 ^h 54	7 ^h 14	S 25	
M26	0 16 50	2 ^h 20'16	24 ^h 14	16 ^h 8	20 ^h 20	13 ^h 44	20 ^h 40	11 ^h 29	23 ^h 59	2 ^h 23	11 ^h 42	20 ^h 39	21 ^h 24	27 ^h 1	7 ^h 13	M26	
T 27	0 20 46	3 ^h 19'00	6 ^h 10	15 ^h 25	21 ^h 34	14 ^h 20	20 ^h 43	11 ^h 30	23 ^h 58	2 ^h 25	11 ^h 42	20 ^h 37	21 ^h 21	27 ^h 8	7 ^h 11	T 27	
W28	0 24 43	4 ^h 17'47	18 ^h 2	14 ^h 34	22 ^h 48	14 ^h 57	20 ^h 45	11 ^h 32	23 ^h 56	2 ^h 27	11 ^h 41	20 ^h 35	21 ^h 17	27 ^h 14	7 ^h 10	W28	
T 29	0 28 39	5 ^h 16'35	29 ^h 53	13 ^h 38	24 ^h 3	15 ^h 34	20 ^h 47	11 ^h 33	23 ^h 55	2 ^h 29	11 ^h 40	20 ^h 32	21 ^h 14	27 ^h 21	7 ^h 9	T 29	
F 30	0 32 36	6 ^h 15'25	11 ^h 46	12 ^h 37	25 ^h 17	16 ^h 11	20 ^h 49	11 ^h 34	23 ^h 54	2 ^h 31	11 ^h 39	20 ^h 30	21 ^h 11	27 ^h 28	7 ^h 8	F 30	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 2107

geocentric

OCTOBER 2107

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 36 33	7 ^h 14 ^m 17 ^s	23 ^h 45 ^m	11°R32	26 ^h 31 ^m	16 ^h 47 ^m	20 ^h 11 ^m 51 ^s	11 ^h 36 ^m	23°R52	2 ^h 34 ^m	11°R38	20°R28	21 ^h 1 ^m 8 ^s	27 ^h 34 ^m	7°R 7	S 1
S 2	0 40 29	8°13'10"	5 ^h 50 ^m	10 ^h 25 ^m	27°45'	17°24'	20°53'	11°37'	23 ^h 51 ^m	2°36'	11 ^h 37 ^m	20 ^h 27 ^m	21° 5'	27°41'	7 ^h 6 ^m	S 2
M 3	0 44 26	9°12'06"	18° 3'	9°17'	28°59'	18° 0'	20°55'	11°39'	23°49'	2°38'	11°36'	20°D27	21° 2'	27°48'	7° 5'	M 3
T 4	0 48 22	10°11'04"	0 ^h 32 ^m 27 ^s	8°10'	0 ^h 11 ^m 13 ^s	18°36'	20°56'	11°40'	23°48'	2°40'	11°35'	20°27	20°58'	27°54'	7° 4'	T 4
W 5	0 52 19	11°10'04"	13° 2'	7° 6'	1°28'	19°13'	20°57'	11°42'	23°46'	2°43'	11°34'	20°28	20°55'	28° 1'	7° 3'	W 5
T 6	0 56 15	12° 9'06"	25°50'	6° 6'	2°42'	19°49'	20°58'	11°44'	23°44'	2°45'	11°33'	20°28	20°52'	28° 8'	7° 2'	T 6
F 7	1 0 12	13° 8'10"	8 ^h 11 ^m 52 ^s	5°13'	3°56'	20°25'	20°59'	11°46'	23°43'	2°47'	11°32'	20°29	20°49'	28°14'	7° 2'	F 7
S 8	1 4 8	14° 7'17"	22°10'	4°27'	5°10'	21° 1'	20°59'	11°48'	23°41'	2°49'	11°31'	20°30	20°46'	28°21'	7° 1'	S 8
S 9	1 8 5	15° 6'26"	5 ^h 34 ^m	3°50'	6°24'	21°37'	21° 0'	11°50'	23°39'	2°51'	11°30'	20°30	20°43'	28°28'	7° 1'	S 9
M10	1 12 2	16° 5'38"	19°36'	3°23'	7°39'	22°13'	21°R 0	11°53'	23°37'	2°54'	11°29'	20°R30	20°39'	28°35'	7° 0'	M10
T 11	1 15 58	17° 4'51"	3 ^h 44 ^m	3° 6'	8°53'	22°49'	21° 0'	11°55'	23°35'	2°56'	11°28'	20°30	20°36'	28°41'	7° 0'	T 11
W12	1 19 55	18° 4'08"	18° 8'	3°D 0	10° 7'	23°25'	20°59'	11°57'	23°34'	2°58'	11°27'	20°30	20°33'	28°48'	6°59'	W12
T 13	1 23 51	19° 3'26"	2 ^h 43 ^m	3° 5'	11°21'	24° 1'	20°59'	12° 0'	23°32'	3° 0'	11°26'	20°30	20°30'	28°55'	6°59'	T 13
F 14	1 27 48	20° 2'46"	17°26'	3°21'	12°35'	24°37'	20°58'	12° 3'	23°30'	3° 2'	11°25'	20°D29	20°27'	29° 1'	6°59'	F 14
S 15	1 31 44	21° 2'09"	2 ^h 1 ^m 9 ^s	3°46'	13°49'	25°12'	20°57'	12° 5'	23°28'	3° 4'	11°24'	20°29	20°23'	29° 8'	6°59'	S 15
S 16	1 35 41	22° 1'34"	16°47'	4°21'	15° 3'	25°48'	20°56'	12° 8'	23°26'	3° 7'	11°23'	20°R30	20°20'	29°15'	6°D59'	S 16
M17	1 39 37	23° 1'01"	1 ^h 11 ^m 12 ^s	5° 6'	16°18'	26°23'	20°55'	12°11'	23°24'	3° 9'	11°22'	20°29	20°17'	29°21'	6°59'	M17
T 18	1 43 34	24° 0'30"	15°19'	5°58'	17°32'	26°59'	20°53'	12°14'	23°22'	3°11'	11°21'	20°29	20°14'	29°28'	6°59'	T 18
W19	1 47 30	25° 0'01"	29° 5'	6°58'	18°46'	27°34'	20°52'	12°17'	23°20'	3°13'	11°20'	20°29	20°11'	29°35'	6°59'	W19
T 20	1 51 27	25°59'34"	12 ^h 17 ^m 27 ^s	8° 4'	20° 0'	28° 9'	20°50'	12°20'	23°17'	3°15'	11°19'	20°28	20° 8'	29°41'	6°59'	T 20
F 21	1 55 24	26°59'09"	25°26'	9°16'	21°14'	28°44'	20°48'	12°24'	23°15'	3°17'	11°18'	20°28	20° 4'	29°48'	7° 0'	F 21
S 22	1 59 20	27°58'45"	8 ^h 3 ^m 3 ^s	10°33'	22°28'	29°19'	20°46'	12°27'	23°13'	3°19'	11°17'	20°27	20° 1'	29°55'	7° 0'	S 22
S 23	2 3 17	28°58'24"	20°22'	11°54'	23°42'	29°54'	20°43'	12°30'	23°11'	3°21'	11°16'	20°26	19°58'	0 ^h 1 ^m 2 ^s	7° 1'	S 23
M24	2 7 13	29°58'04"	2 ^h 28 ^m 28 ^s	13°19'	24°56'	0 ^h 11 ^m 29 ^s	20°40'	12°34'	23° 9'	3°23'	11°15'	20°D26	19°55'	0° 8'	7° 1'	M24
T 25	2 11 10	0 ^h 11 ^m 57 ^s 45"	14°24'	14°48'	26°10'	1° 4'	20°37'	12°38'	23° 7'	3°25'	11°14'	20°27	19°52'	0°15'	7° 2'	T 25
W26	2 15 6	1°57'28"	26°15'	16°18'	27°25'	1°39'	20°34'	12°41'	23° 4'	3°27'	11°12'	20°27	19°49'	0°22'	7° 2'	W26
T 27	2 19 3	2°57'14"	8 ^h 1 ^m 7 ^s	17°51'	28°39'	2°13'	20°31'	12°45'	23° 2'	3°29'	11°11'	20°29	19°45'	0°28'	7° 3'	T 27
F 28	2 22 59	3°57'00"	20° 2'	19°26'	29°53'	2°48'	20°28'	12°49'	23° 0'	3°31'	11°10'	20°30	19°42'	0°35'	7° 4'	F 28
S 29	2 26 56	4°56'49"	2 ^h 1 ^m 5 ^s	21° 2'	1 ^h 17 ^m 7 ^s	3°22'	20°24'	12°53'	22°57'	3°33'	11° 9'	20°31	19°39'	0°42'	7° 5'	S 29
S 30	2 30 53	5°56'39"	14°20'	22°39'	2°21'	3°56'	20°20'	12°57'	22°55'	3°35'	11° 8'	20°R32	19°36'	0°48'	7° 6'	S 30
M31	2 34 49	6 ^h 11 ^m 56 ^s 31"	26°14 ^m 47 ^s	24 ^h 17 ^m	3 ^h 13 ^m 35 ^s	4 ^h 11 ^m 31 ^s	20°11 ^m 16 ^s	13 ^h 3 ^m 1 ^s	22 ^h 53 ^m	3 ^h 37 ^m	11 ^h 8 ^m 7 ^s	20°32	19°33	0 ^h 11 ^m 55 ^s	7 ^h 6 ^m 7 ^s	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	2s52	0s18	2n23	7s17	2s58	9s38	0n38	16n58	1n14	22n22	0s44	22s36	0n19	18n26	0s19	0n10
S 2	3 15	3n32	1 20	6 36	2 42	10 7	0 35	16 47	1 14	22 22	0 44	22 36	0 19	18 25	0 19	0 9
M 3	3 39	7 17	0 13	5 54	2 25	10 36	0 33	16 37	1 15	22 22	0 44	22 36	0 19	18 25	0 19	0 8
T 4	4 2	10 46	0s55	5 10	2 6	11 4	0 31	16 26	1 16	22 23	0 44	22 36	0 19	18 24	0 19	0 8
W 5	4 25	13 48	2 2	4 27	1 47	11 32	0 28	16 15	1 16	22 23	0 44	22 36	0 19	18 24	0 19	0 7
T 6	4 48	16 13	3 4	3 45	1 26	12 0	0 26	16 5	1 17	22 23	0 44	22 36	0 19	18 24	0 19	0 6
F 7	5 11	17 51	3 58	3 5	1 6	12 27	0 23	15 54	1 17	22 23	0 44	22 36	0 18	18 23	0 19	0 5
S 8	5 34	18 32	4 40	2 28	0 46	12 54	0 21	15 43	1 18	22 23	0 44	22 36	0 18	18 23	0 19	0 4
S 9	5 57	18 11	5 7	1 55	0 26	13 21	0 18	15 32	1 19	22 23	0 45	22 36	0 18	18 22	0 19	0 3
M10	6 20	16 45	5 17	1 26	0 6	13 48	0 16	15 21	1 19	22 23	0 45	22 36	0 18	18 22	0 19	0 2
T 11	6 42	14 17	5 9	1 3	0n12	14 14	0 13	15 10	1 20	22 23	0 45	22 35	0 18	18 21	0 19	0 2
W12	7 5	10 55	4 41	0 45	0 29	14 40	0 11	14 58	1 21	22 23	0 45	22 35	0 18	18 21	0 19	0 1
T 13	7 27	6 50	3 55	0 32	0 45	15 6	0 8	14 47	1 21	22 23	0 45	22 35	0 18	18 20	0 19	0s 0
F 14	7 50	2 18	2 54	0 25	0 59	15 31	0 5	14 36	1 22	22 22	0 45	22 35	0 18	18 20	0 19	0 1
S 15	8 12	2s23	1 40	0 24	1 12	15 56	0 3	14 25	1 23	22 22	0 45	22 35	0 18	18 20	0 19	0 2
S 16	8 34	6 55	0 21	0 27	1 23	16 20	0 0	14 13	1 23	22 22	0 45	22 35	0 17	18 19	0 19	0 3
M17	8 57	10 58	0n59	0 36	1 33	16 44	0s 3	14 2	1 24	22 22	0 45	22 35	0 17	18 18	0 19	0 3
T 18	9 18	14 17	2 14	0 49	1 41	17 8	0 5	13 50	1 25	22 22	0 45	22 34	0 17	18 18	0 19	0 4
W19	9 40	16 43	3 18	1 6	1 48	17 31	0 8	13 39	1 25	22 22	0 45	22 34	0 17	18 17	0 19	0 5
T 20	10 2	18 8	4 10	1 27	1 53	17 54	0 11	13 27	1 26	22 22	0 45	22 34	0 17	18 17	0 19	0 6
F 21	10 24	18 33	4 48	1 52	1 58	18 16	0 13	13 16	1 27	22 22	0 45	22 34	0 17	18 16	0 19	0 7
S 22	10 45	18 1	5 10	2 19	2 1	18 38	0 16	13 4	1 27	22 21	0 45	22 34	0 17	18 16	0 19	0 7
S 23	11 6	16 39	5 17	2 49	2 3	19 0	0 19	12 52	1 28	22 21	0 45	22 33	0 17	18 15	0 19	0 8
M24	11 27	14 33	5 10	3 22	2 3	19 20	0 22	12 41	1 29	22 21	0 45	22 33	0 17	18 15	0 19	0 9
T 25	11 48	11 52	4 50	3 56	2 3	19 41	0 24	12 29	1 30	22 21	0 45	22 33	0 17	18 14	0 19	0 10
W26	12 9	8 43	4 17	4 31	2 2	20 0	0 27	12 17	1 30	22 21	0 45	22 33	0 16	18 14	0 19	0 11
T 27	12 29	5 13	3 34	5 8	2 1	20 20	0 30	12 5	1 31	22 20	0 45	22 32	0 16	18 13	0 19	0 11
F 28	12 50	1 29	2 41	5 46	1 58	20 38	0 33	11 54	1 32	22 20	0 45	22 32	0 16	18 12	0 19	0 12
S 29	13 10	2n22	1 40	6 25	1 55	20 57	0 35	11 42	1 32	22 20	0 45	22 32	0 16	18 12	0 19	0 13
S 30	13 30	6 10	0 34	7 4	1 52	21 14	0 38	11 30	1 33	22 20	0 45	22 32	0 16	18 11	0 19	0 14
M31	13s49	9n47	0s35	7s44	1n48	21s31	0s41	11n18	1n34	22n19	0s45	22s31	0n16	18n11	0s19	0s14

Julian Day Number = 2490898.5, Delta T = 96.89 sec
 Ecliptic obliquity = 23°25'23", Nutation = 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°14'45", Lahiri = 25°21'45"

ASTRODIENST EPHEMERIS for the year 2107
geocentric

NOVEMBER 2107

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 38 46	7♏56'26	9♏29	25♏55	4♏49	5♏5	20°R12	13♏5	22°R50	3♏39	11°R 6	20°R31	19♏29	1♏2	7♏8	T 1
W 2	2 42 42	8°56'22	22°25	27°34	6° 3	5°39	20II 8	13° 9	22♏48	3°41	11♏5	20♏29	19°26	1° 8	7° 9	W 2
T 3	2 46 39	9°56'20	5II37	29°13	7°17	6°13	20° 3	13°14	22°45	3°43	11° 3	20°26	19°23	1°15	7°10	T 3
F 4	2 50 35	10°56'20	19° 2	0III52	8°31	6°47	19°58	13°18	22°43	3°45	11° 2	20°23	19°20	1°22	7°12	F 4
S 5	2 54 32	11°56'22	2♏39	2°31	9°45	7°21	19°53	13°23	22°41	3°47	11° 1	20°20	19°17	1°29	7°13	S 5
S 6	2 58 28	12°56'26	16°27	4°11	10°59	7°54	19°48	13°27	22°38	3°48	11° 0	20°18	19°14	1°35	7°14	S 6
M 7	3 2 25	13°56'33	0♏24	5°50	12°13	8°28	19°43	13°32	22°36	3°50	10°59	20°16	19°10	1°42	7°16	M 7
T 8	3 6 22	14°56'41	14°29	7°29	13°26	9° 1	19°38	13°36	22°33	3°52	10°58	20°D15	19° 7	1°49	7°18	T 8
W 9	3 10 18	15°56'52	28°39	9° 7	14°40	9°35	19°32	13°41	22°31	3°54	10°57	20°16	19° 4	1°55	7°19	W 9
T 10	3 14 15	16°57'04	12♏54	10°46	15°54	10° 8	19°26	13°46	22°28	3°56	10°56	20°17	19° 1	2° 2	7°21	T 10
F 11	3 18 11	17°57'19	27°10	12°24	17° 8	10°41	19°20	13°51	22°26	3°57	10°54	20°19	18°58	2° 9	7°23	F 11
S 12	3 22 8	18°57'36	11♏26	14° 2	18°22	11°14	19°14	13°56	22°23	3°59	10°53	20°20	18°54	2°15	7°25	S 12
S 13	3 26 4	19°57'54	25°36	15°39	19°36	11°47	19° 8	14° 1	22°21	4° 1	10°52	20°R20	18°51	2°22	7°26	S 13
M14	3 30 1	20°58'15	9III39	17°16	20°50	12°20	19° 2	14° 6	22°18	4° 2	10°51	20°19	18°48	2°29	7°28	M14
T 15	3 33 57	21°58'37	23°29	18°53	22° 4	12°53	18°55	14°11	22°16	4° 4	10°50	20°16	18°45	2°35	7°30	T 15
W16	3 37 54	22°59'01	7♏3	20°30	23°18	13°25	18°49	14°17	22°13	4° 6	10°49	20°11	18°42	2°42	7°33	W16
T 17	3 41 51	23°59'27	20°19	22° 6	24°31	13°58	18°42	14°22	22°11	4° 7	10°48	20° 6	18°39	2°49	7°35	T 17
F 18	3 45 47	24°59'54	3♏16	23°42	25°45	14°30	18°35	14°27	22° 8	4° 9	10°47	19°59	18°35	2°55	7°37	F 18
S 19	3 49 44	26° 0'22	15°53	25°18	26°59	15° 2	18°28	14°33	22° 6	4°10	10°46	19°54	18°32	3° 2	7°39	S 19
S 20	3 53 40	27° 0'52	28°14	26°53	28°13	15°34	18°21	14°38	22° 3	4°12	10°45	19°49	18°29	3° 9	7°42	S 20
M21	3 57 37	28° 1'23	10♏20	28°28	29°27	16° 6	18°14	14°44	22° 1	4°13	10°44	19°45	18°26	3°15	7°44	M21
T 22	4 1 33	29° 1'56	22°16	0♏3	0♏40	16°38	18° 7	14°49	21°58	4°15	10°42	19°43	18°23	3°22	7°46	T 22
W23	4 5 30	0♏2'29	4♏7	1°38	1°54	17°10	17°59	14°55	21°56	4°16	10°41	19°D43	18°20	3°29	7°49	W23
T 24	4 9 26	1° 3'04	15°58	3°13	3° 8	17°42	17°52	15° 1	21°54	4°18	10°40	19°44	18°16	3°36	7°52	T 24
F 25	4 13 23	2° 3'40	27°53	4°47	4°22	18°13	17°44	15° 7	21°51	4°19	10°39	19°46	18°13	3°42	7°54	F 25
S 26	4 17 20	3° 4'18	9♏58	6°21	5°35	18°44	17°37	15°12	21°49	4°20	10°38	19°47	18°10	3°49	7°57	S 26
S 27	4 21 16	4° 4'56	22°18	7°55	6°49	19°15	17°29	15°18	21°46	4°22	10°37	19°R48	18° 7	3°56	8° 0	S 27
M28	4 25 13	5° 5'36	4♏55	9°29	8° 2	19°46	17°21	15°24	21°44	4°23	10°36	19°46	18° 4	4° 2	8° 3	M28
T 29	4 29 9	6° 6'17	17°53	11° 3	9°16	20°17	17°13	15°30	21°41	4°24	10°35	19°43	18° 0	4° 9	8° 5	T 29
W30	4 33 6	7♏6'59	1II10	12♏36	10♏30	20♏48	17II 5	15♏36	21♏39	4♏26	10♏34	19♏38	17♏57	4♏16	8♏8	W30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s 9	13n 1	1s43	8s24	1n43	21s48	0s43	11n 6	1n34	22n19	0s45	22s31	0n16	18n10	0s19	0s15	1n18	0s38	16s33	8s 0	7s37	7s30	11s52	6n50			
W 2	14 28	15 40	2 47	9 4	1 39	22 4	0 46	10 54	1 35	22 19	0 45	22 31	0 16	18 10	0 19	0 16	1 18	0 38	16 33	8 0	7 36	7 28	11 52	6 49			
T 3	14 47	17 33	3 44	9 44	1 34	22 19	0 49	10 42	1 36	22 18	0 45	22 30	0 16	18 9	0 19	0 17	1 18	0 38	16 33	7 59	7 35	7 26	11 52	6 49			
F 4	15 6	18 30	4 29	10 24	1 28	22 33	0 51	10 31	1 36	22 18	0 45	22 30	0 16	18 8	0 19	0 17	1 18	0 39	16 33	7 58	7 34	7 24	11 52	6 48			
S 5	15 24	18 24	5 0	11 3	1 22	22 47	0 54	10 19	1 37	22 18	0 45	22 30	0 15	18 8	0 19	0 18	1 18	0 39	16 33	7 57	7 32	7 22	11 52	6 48			
S 6	15 43	17 13	5 14	11 42	1 16	23 1	0 57	10 7	1 38	22 17	0 45	22 29	0 15	18 7	0 19	0 19	1 19	0 39	16 33	7 56	7 31	7 21	11 52	6 47			
M 7	16 1	15 0	5 10	12 21	1 10	23 13	0 59	9 55	1 39	22 17	0 45	22 29	0 15	18 6	0 19	0 19	1 19	0 40	16 33	7 55	7 30	7 19	11 53	6 47			
T 8	16 19	11 54	4 47	12 59	1 4	23 25	1 2	9 43	1 39	22 17	0 45	22 29	0 15	18 6	0 19	0 20	1 19	0 40	16 33	7 55	7 29	7 17	11 53	6 46			
W 9	16 36	8 4	4 7	13 37	0 58	23 36	1 4	9 31	1 40	22 16	0 44	22 28	0 15	18 5	0 19	0 21	1 19	0 40	16 33	7 55	7 28	7 15	11 53	6 46			
T 10	16 53	3 46	3 11	14 14	0 51	23 47	1 7	9 19	1 41	22 16	0 44	22 28	0 15	18 5	0 19	0 21	1 19	0 40	16 33	7 55	7 26	7 13	11 53	6 45			
F 11	17 10	0s46	2 4	14 50	0 44	23 57	1 9	9 7	1 41	22 15	0 44	22 27	0 15	18 4	0 19	0 22	1 19	0 41	16 33	7 56	7 25	7 12	11 53	6 45			
S 12	17 27	5 16	0 49	15 26	0 38	24 6	1 12	8 55	1 42	22 15	0 44	22 27	0 15	18 3	0 19	0 23	1 19	0 41	16 33	7 56	7 24	7 10	11 53	6 44			
S 13	17 43	9 27	0n29	16 1	0 31	24 15	1 14	8 43	1 43	22 15	0 44	22 27	0 15	18 3	0 19	0 23	1 19	0 41	16 33	7 56	7 23	7 8	11 53	6 44			
M14	17 59	13 3	1 44	16 35	0 24	24 23	1 16	8 31	1 44	22 14	0 44	22 26	0 15	18 2	0 19	0 24	1 19	0 42	16 33	7 56	7 22	7 6	11 53	6 43			
T 15	18 15	15 52	2 51	17 9	0 17	24 30	1 19	8 20	1 44	22 14	0 44	22 26	0 14	18 1	0 19	0 25	1 19	0 42	16 33	7 55	7 20	7 4	11 53	6 43			
W16	18 30	17 44	3 48	17 41	0 11	24 36	1 21	8 8	1 45	22 13	0 44	22 25	0 14	18 1	0 19	0 25	1 19	0 42	16 33	7 53	7 19	7 3	11 53	6 43			
T 17	18 45	18 34	4 31	18 13	0 4	24 42	1 23	7 56	1 46	22 13	0 44	22 25	0 14	18 0	0 19	0 26	1 19	0 42	16 33	7 51	7 18	7 1	11 53	6 42			
F 18	19 0	18 25	4 58	18 44	0s 3	24 47	1 25	7 44	1 46	22 12	0 44	22 24	0 14	18 0	0 18	0 26	1 19	0 42	16 32	7 49	7 17	6 59	11 53	6 42			
S 19	19 15	17 20	5 10	19 14	0 10	24 51	1 27	7 32	1 47	22 12	0 44	22 24	0 14	17 59	0 18	0 27	1 19	0 43	16 32	7 46	7 16	6 57	11 52	6 41			
S 20	19 29	15 28	5 8	19 43	0 16	24 54	1 30	7 21	1 48	22 11	0 44	22 23	0 14	17 58	0 18	0 27	1 19	0 43	16 32	7 45	7 14	6 55	11 52	6 41			
M21	19 42	12 57	4 51	20 11	0 23	24 57	1 32	7 9	1 49	22 10	0 44	22 23	0 14	17 58	0 18	0 28	1 19	0 43	16 32	7 43	7 13	6 54	11 52	6 40			
T 22	19 56	9 56	4 23	20 38	0 29	24 59	1 34	6 57	1 49	22 10	0 44	22 22	0 14	17 57	0 18	0 29	1 19	0 43	16 32	7 43	7 12	6 52	11 52	6 40			
W23	20 9	6 32	3 43	21 4	0 36	25 0	1 35	6 45	1 50	22 9	0 44	22 22	0 14	17 56	0 18	0 29	1 19	0 43	16 32	7 43	7 11	6 50	11 52	6 39			
T 24	20 21	2 52	2 53	21 29	0 42	25 0	1 37	6 34	1 51	22 9	0 44	22 21	0 14	17 56	0 18	0 30	1 19	0 44	16 32	7 43	7 10	6 48	11 52	6 39			
F 25	20 34	0n56	1 56	21 52	0 49	25 0	1 39	6 22	1 52	22 8	0 43	22 21	0 14	17 55	0 18	0 30	1 19	0 44	16 32	7 44	7 8	6 46	11 51	6 38			
S 26	20 45	4 46	0 53	22 15	0 55	24 59	1 41	6 11	1 53	22 8	0 43	22 20	0 14	17 55	0 18	0 31	1 19	0 44	16 31	7 44	7 7	6 45	11 51	6 38			
S 27	20 57	8 28	0s14	22 37	1 1	24 57	1 43	5 59	1 53	22 7	0 43	22 19	0 13	17 54	0 18	0 31	1 19	0 44	16 31	7 44	7 6	6 43	11 51	6 38			
M28	21 8	11 53	1 21	22 57	1 7	24 55	1 44	5 48	1 54	22 6	0 43	22 19	0 13	17 53	0 18	0 32	1 19	0 44	16 31	7 44	7 5	6 41	11 51	6 37			
T 29	21 19	14 49	2 26	23 17	1 12	24 51	1 46	5 36	1 55	22 6	0 43	22 18	0 13	17 53	0 18	0 32	1 19	0 44	16 31	7 42	7 4	6 39	11 50	6 37			
W30	21s29	17n 3	3s24	23s35	1s18	24s47	1s47	5n25	1n56	22n 5	0s43	22s18	0n13	17n52	0s18	0s33	1n20	0s44	16s31	7s40	7s 2	6s37	11s50	6n36			

ASTRODIENST EPHEMERIS for the year 2107
geocentric

DECEMBER 2107

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 37 2	8♈ 7'42	14♏ 47	14♈ 10	11♐ 43	21♏ 19	16°R57	15♐ 42	21°R37	4♏ 27	10°R33	19°R30	17♏ 54	4♏ 22	8♏ 11	T 1
F 2	4 40 59	9° 8'27	28°40	15°43	12°57	21°49	16♏ 49	15°48	21♐ 34	4°28	10♐ 32	19♏ 22	17°51	4°29	8°14	F 2
S 3	4 44 55	10° 9'13	12♏ 46	17°16	14°10	22°19	16°41	15°55	21°32	4°29	10°31	19°13	17°48	4°36	8°18	S 3
S 4	4 48 52	11°10'01	26°59	18°50	15°24	22°49	16°33	16° 1	21°30	4°30	10°30	19° 5	17°45	4°42	8°21	S 4
M 5	4 52 49	12°10'50	11♏ 15	20°23	16°37	23°19	16°25	16° 7	21°27	4°31	10°29	18°59	17°41	4°49	8°24	M 5
T 6	4 56 45	13°11'40	25°30	21°56	17°50	23°49	16°17	16°13	21°25	4°32	10°28	18°56	17°38	4°56	8°27	T 6
W 7	5 0 42	14°12'32	9♏ 40	23°29	19° 4	24°19	16° 9	16°20	21°23	4°34	10°28	18°D54	17°35	5° 2	8°31	W 7
T 8	5 4 38	15°13'25	23°45	25° 2	20°17	24°48	16° 0	16°26	21°21	4°35	10°27	18°54	17°32	5° 9	8°34	T 8
F 9	5 8 35	16°14'19	7♏ 44	26°35	21°30	25°18	15°52	16°33	21°18	4°36	10°26	18°55	17°29	5°16	8°37	F 9
S 10	5 12 31	17°15'15	21°35	28° 8	22°44	25°47	15°44	16°39	21°16	4°36	10°25	18°R56	17°26	5°22	8°41	S 10
S 11	5 16 28	18°16'12	5♏ 18	29°41	23°57	26°16	15°36	16°46	21°14	4°37	10°24	18°54	17°22	5°29	8°44	S 11
M12	5 20 24	19°17'10	18°53	1♐ 13	25°10	26°44	15°28	16°52	21°12	4°38	10°23	18°51	17°19	5°36	8°48	M12
T 13	5 24 21	20°18'09	2♏ 19	2°46	26°23	27°13	15°20	16°59	21°10	4°39	10°22	18°44	17°16	5°43	8°51	T 13
W14	5 28 18	21°19'09	15°33	4°18	27°36	27°41	15°11	17° 5	21° 8	4°40	10°21	18°35	17°13	5°49	8°55	W14
T 15	5 32 14	22°20'10	28°33	5°50	28°49	28° 9	15° 3	17°12	21° 6	4°41	10°21	18°24	17°10	5°56	8°59	T 15
F 16	5 36 11	23°21'12	11♐ 19	7°22	0♏ 3	28°37	14°55	17°19	21° 4	4°41	10°20	18°11	17° 6	6° 3	9° 3	F 16
S 17	5 40 7	24°22'15	23°50	8°54	1°16	29° 5	14°47	17°25	21° 2	4°42	10°19	17°59	17° 3	6° 9	9° 6	S 17
S 18	5 44 4	25°23'18	6♏ 7	10°25	2°29	29°32	14°39	17°32	21° 0	4°43	10°18	17°48	17° 0	6°16	9°10	S 18
M19	5 48 0	26°24'22	18°11	11°56	3°41	29°59	14°32	17°39	20°58	4°44	10°18	17°39	16°57	6°23	9°14	M19
T 20	5 51 57	27°25'26	0♏ 6	13°26	4°54	0♏ 27	14°24	17°46	20°56	4°44	10°17	17°33	16°54	6°29	9°18	T 20
W21	5 55 53	28°26'30	11°55	14°55	6° 7	0°54	14°16	17°53	20°54	4°45	10°16	17°29	16°51	6°36	9°22	W21
T 22	5 59 50	29°27'35	23°44	16°23	7°20	1°20	14° 8	17°59	20°52	4°45	10°15	17°28	16°47	6°43	9°26	T 22
F 23	6 3 47	0♐ 28'40	5♏ 37	17°51	8°33	1°47	14° 1	18° 6	20°51	4°46	10°15	17°D28	16°44	6°49	9°30	F 23
S 24	6 7 43	1°29'46	17°41	19°17	9°45	2°13	13°53	18°13	20°49	4°46	10°14	17°R28	16°41	6°56	9°34	S 24
S 25	6 11 40	2°30'51	29°59	20°41	10°58	2°39	13°46	18°20	20°47	4°47	10°14	17°27	16°38	7° 3	9°38	S 25
M26	6 15 36	3°31'57	12♐ 39	22° 4	12°10	3° 4	13°39	18°27	20°46	4°47	10°13	17°25	16°35	7° 9	9°42	M26
T 27	6 19 33	4°33'03	25°43	23°24	13°23	3°30	13°32	18°34	20°44	4°48	10°12	17°20	16°32	7°16	9°46	T 27
W28	6 23 29	5°34'10	9♏ 13	24°42	14°35	3°55	13°25	18°41	20°42	4°48	10°12	17°12	16°28	7°23	9°51	W28
T 29	6 27 26	6°35'16	23° 8	25°57	15°48	4°20	13°18	18°48	20°41	4°48	10°11	17° 1	16°25	7°29	9°55	T 29
F 30	6 31 23	7°36'23	7♏ 25	27° 8	17° 0	4°45	13°11	18°55	20°39	4°48	10°11	16°50	16°22	7°36	9°59	F 30
S 31	6 35 19	8♐ 37'30	21♏ 58	28♐ 15	18♏ 12	5♏ 9	13♏ 4	19♐ 2	20♐ 38	4♏ 49	10♐ 10	16♏ 37	16♏ 19	7♏ 43	10♏ 3	S 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
T 1	21s39	18n22	4s13	23s52	1s23	24s43	1s49	5n14	1n56	22n 4	0s43	22s17	0n13	17n52	0s18	0s33	1n20	0s45	16s31	7s38	7s 1	6s36	11s50	6n36
F 2	21 48	18 38	4 47	24 7	1 28	24 37	1 50	5 2	1 57	22 4	0 43	22 16	0 13	17 51	0 18	0 33	1 20	0 45	16 30	7 34	7 0	6 34	11 49	6 35
S 3	21 57	17 45	5 5	24 22	1 33	24 31	1 51	4 51	1 58	22 3	0 43	22 16	0 13	17 50	0 18	0 34	1 20	0 45	16 30	7 31	6 59	6 32	11 49	6 35
S 4	22 6	15 47	5 4	24 35	1 38	24 24	1 53	4 40	1 59	22 2	0 43	22 15	0 13	17 50	0 18	0 34	1 20	0 45	16 30	7 28	6 57	6 30	11 48	6 35
M 5	22 14	12 50	4 44	24 47	1 43	24 16	1 54	4 29	2 0	22 2	0 42	22 14	0 13	17 49	0 18	0 35	1 20	0 45	16 30	7 26	6 56	6 28	11 48	6 34
T 6	22 22	9 8	4 7	24 58	1 47	24 8	1 55	4 18	2 0	22 1	0 42	22 14	0 13	17 49	0 18	0 35	1 20	0 45	16 30	7 25	6 55	6 26	11 48	6 34
W 7	22 29	4 56	3 14	25 7	1 51	23 59	1 56	4 7	2 1	22 0	0 42	22 13	0 13	17 48	0 18	0 35	1 20	0 45	16 29	7 24	6 54	6 25	11 47	6 33
T 8	22 36	0 29	2 11	25 15	1 55	23 49	1 57	3 56	2 2	21 59	0 42	22 12	0 12	17 47	0 18	0 36	1 20	0 45	16 29	7 24	6 53	6 23	11 47	6 33
F 9	22 43	3s59	1 0	25 22	1 59	23 38	1 58	3 45	2 3	21 59	0 42	22 12	0 12	17 47	0 18	0 36	1 20	0 45	16 29	7 24	6 51	6 21	11 46	6 33
S 10	22 49	8 11	0n14	25 27	2 2	23 27	1 58	3 34	2 4	21 58	0 42	22 11	0 12	17 46	0 18	0 36	1 20	0 45	16 29	7 24	6 50	6 19	11 46	6 32
S 11	22 54	11 55	1 26	25 31	2 5	23 15	1 59	3 23	2 5	21 57	0 42	22 10	0 12	17 46	0 18	0 37	1 20	0 45	16 29	7 24	6 49	6 17	11 45	6 32
M12	22 59	14 59	2 33	25 33	2 8	23 3	2 0	3 13	2 5	21 57	0 41	22 9	0 12	17 45	0 18	0 37	1 20	0 45	16 28	7 23	6 48	6 16	11 45	6 32
T 13	23 4	17 11	3 30	25 34	2 10	22 49	2 0	3 2	2 6	21 56	0 41	22 9	0 12	17 45	0 18	0 37	1 20	0 45	16 28	7 20	6 47	6 14	11 44	6 31
W14	23 8	18 25	4 14	25 33	2 12	22 36	2 0	2 52	2 7	21 55	0 41	22 8	0 12	17 44	0 18	0 38	1 20	0 45	16 28	7 17	6 45	6 12	11 43	6 31
T 15	23 12	18 40	4 45	25 31	2 14	22 21	2 1	2 41	2 8	21 54	0 41	22 7	0 12	17 44	0 18	0 38	1 20	0 45	16 28	7 12	6 44	6 10	11 43	6 31
F 16	23 15	17 57	5 0	25 28	2 15	22 6	2 1	2 31	2 9	21 54	0 41	22 6	0 12	17 43	0 18	0 38	1 20	0 45	16 27	7 8	6 43	6 8	11 42	6 30
S 17	23 18	16 23	5 1	25 23	2 16	21 50	2 1	2 21	2 10	21 53	0 41	22 6	0 12	17 43	0 18	0 38	1 20	0 45	16 27	7 3	6 42	6 7	11 41	6 30
S 18	23 21	14 5	4 48	25 17	2 16	21 34	2 1	2 11	2 10	21 52	0 41	22 5	0 12	17 42	0 18	0 39	1 20	0 45	16 27	6 59	6 40	6 5	11 41	6 30
M19	23 22	11 13	4 21	25 9	2 16	21 17	2 1	2 1	2 11	21 51	0 40	22 4	0 12	17 42	0 18	0 39	1 20	0 45	16 27	6 55	6 39	6 3	11 40	6 29
T 20	23 24	7 56	3 44	24 59	2 15	20 59	2 1	1 51	2 12	21 51	0 40	22 3	0 12	17 41	0 18	0 39	1 21	0 45	16 26	6 53	6 38	6 1	11 39	6 29
W21	23 25	4 21	2 57	24 49	2 14	20 41	2 1	1 41	2 13	21 50	0 40	22 2	0 11	17 41	0 18	0 39	1 21	0 45	16 26	6 52	6 37	5 59	11 39	6 29
T 22	23 25	0 37	2 3	24 36	2 12	20 22	2 1	1 31	2 14	21 49	0 40	22 2	0 11	17 40	0 18	0 39	1 21	0 45	16 26	6 51	6 36	5 57	11 38	6 28
F 23	23 25	3n11	1 3	24 23	2 10	20 3	2 0	1 21	2 15	21 49	0 40	22 1	0 11	17 40	0 18	0 39	1 21	0 45	16 25	6 51	6 34	5 56	11 37	6 28
S 24	23 25	6 55	0s 1	24 8	2 7	19 43	2 0	1 12	2 16	21 48	0 40	22 0	0 11	17 39	0 18	0 40	1 21	0 45	16 25	6 51	6 33	5 54	11 37	6 28
S 25	23 24	10 26	1 6	23 51	2 3	19 23	1 59	1 2	2 17	21 47	0 39	21 59	0 11	17 39	0 18	0 40	1 21	0 45	16 25	6 51	6 32	5 52	11 36	6 27
M26	23 23	13 34	2 9	23 34	1 58	19 2	1 58	0 53	2 18	21 46	0 39	21 58	0 11	17 39	0 18	0 40	1 21	0 45	16 25	6 50	6 31	5 50	11 35	6 27
T 27	23 21	16 8	3 8	23 15	1 53	18 40	1 58	0 44	2 18	21 46	0 39	21 57	0 11	17 38	0 18	0 40	1 21	0 45	16 24	6 48	6 30	5 48	11 34	6 27
W28	23 18	17 54	3 58	22 55	1 47	18 18	1 57	0 35	2 19	21 45	0 39	21 56	0 11	17 38	0 18	0 40	1 21	0 45	16 24	6 45	6 28	5 47	11 33	6 27
T 29	23 16	18 40	4 35	22 35	1 40	17 56	1 56	0 26	2 20	21 44	0 39	21 56	0 11	17 37	0 18	0 40	1 21	0 44	16 24	6 41	6 27	5 45	11 32	6 26
F 30	23 12	18 17	4 57	22 13	1 32	17 33	1 55	0 17	2 21	21 44	0 38	21 55	0 11	17 37	0 18	0 40	1 21	0 44	16 23	6 36	6 26	5 43	11 32	6 26
S 31	23s 9	16n42	4s59	21s51	1s22	17s10	1s54	0n 8	2n22	21n43	0s38	21s54	0n11	17n37	0s18	0s40	1n21	0s44	16s23	6s32	6s25	5s41	11s31	6n26