



Astrodienst Ephemeris Tables for the year 1938

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 1938

geocentric

JANUARY 1938

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 39 57	9°55'19	1°21	5°R28	1°45	7°46	2°38	29°9	9°R51	21°R 8	29°R24	5°R51	4°13	20°30	27°R37	S 1
S 2	6 43 54	10°56'30	13°14	4°13	3° 0	8°31	2°52	29°12	9°50	21°8	29°23	5°46	4°10	20°37	27°II33	S 2
M 3	6 47 50	11°57'41	25°13	3° 4	4°16	9°17	3° 6	29°16	9°49	21° 7	29°22	5°40	4° 7	20°43	27°30	M 3
T 4	6 51 47	12°58'52	7°20	2° 3	5°31	10° 2	3°19	29°19	9°48	21° 7	29°21	5°33	4° 3	20°50	27°26	T 4
W 5	6 55 43	14° 0'03	19°35	1°11	6°47	10°48	3°33	29°23	9°47	21° 7	29°19	5°26	4° 0	20°57	27°22	W 5
T 6	6 59 40	15° 1'14	2°11	0°29	8° 2	11°33	3°47	29°26	9°47	21° 6	29°18	5°19	3°57	21° 3	27°19	T 6
F 7	7 3 36	16° 2'24	14°41	29°57	9°18	12°18	4° 1	29°30	9°46	21° 6	29°17	5°13	3°54	21°10	27°15	F 7
S 8	7 7 33	17° 3'33	27°34	29°36	10°33	13° 4	4°15	29°34	9°46	21° 5	29°16	5° 9	3°51	21°17	27°11	S 8
S 9	7 11 29	18° 4'43	10°44	29°24	11°49	13°49	4°29	29°37	9°45	21° 5	29°14	5° 7	3°47	21°23	27° 8	S 9
M10	7 15 26	19° 5'52	24°13	29°D21	13° 4	14°34	4°43	29°41	9°45	21° 4	29°13	5°D 7	3°44	21°30	27° 4	M10
T 11	7 19 23	20° 7'00	8° 4	29°27	14°20	15°20	4°57	29°45	9°44	21° 4	29°12	5° 8	3°41	21°37	27° 1	T 11
W12	7 23 19	21° 8'08	22°16	29°40	15°35	16° 5	5°11	29°50	9°44	21° 3	29°10	5° 9	3°38	21°43	26°57	W12
T 13	7 27 16	22° 9'15	6°II49	0°2	16°50	16°50	5°25	29°54	9°44	21° 2	29° 9	5°R10	3°35	21°50	26°54	T 13
F 14	7 31 12	23°10'21	21°39	0°29	18° 6	17°35	5°39	29°58	9°43	21° 2	29° 8	5° 9	3°32	21°57	26°51	F 14
S 15	7 35 9	24°11'27	6°41	1° 3	19°21	18°21	5°53	0°Y 2	9°43	21° 1	29° 6	5° 5	3°28	22° 3	26°47	S 15
S 16	7 39 5	25°12'33	21°46	1°42	20°37	19° 6	6° 7	0° 7	9°43	21° 0	29° 5	5° 0	3°25	22°10	26°44	S 16
M17	7 43 2	26°13'37	6°45	2°26	21°52	19°51	6°21	0°11	9°43	20°59	29° 4	4°52	3°22	22°17	26°41	M17
T 18	7 46 58	27°14'42	21°28	3°15	23° 8	20°36	6°35	0°16	9°D43	20°59	29° 2	4°43	3°19	22°23	26°38	T 18
W19	7 50 55	28°15'45	5°48	4° 7	24°23	21°21	6°49	0°21	9°43	20°58	29° 1	4°35	3°16	22°30	26°35	W19
T 20	7 54 52	29°16'49	19°40	5° 3	25°38	22° 6	7° 3	0°26	9°43	20°57	29° 0	4°27	3°13	22°37	26°32	T 20
F 21	7 58 48	0°17'52	3° 3	6° 2	26°54	22°51	7°18	0°30	9°43	20°56	28°58	4°21	3° 9	22°43	26°29	F 21
S 22	8 2 45	1°18'54	15°59	7° 4	28° 9	23°37	7°32	0°35	9°43	20°55	28°57	4°18	3° 6	22°50	26°26	S 22
S 23	8 6 41	2°19'56	28°30	8° 9	29°25	24°22	7°46	0°40	9°43	20°54	28°56	4°D16	3° 3	22°57	26°23	S 23
M24	8 10 38	3°20'58	10°42	9°16	0°40	25° 7	8° 0	0°45	9°44	20°53	28°54	4°17	3° 0	23° 3	26°20	M24
T 25	8 14 34	4°21'59	22°40	10°26	1°55	25°52	8°14	0°51	9°44	20°52	28°53	4°17	2°57	23°10	26°17	T 25
W26	8 18 31	5°23'00	4°30	11°37	3°11	26°37	8°29	0°56	9°44	20°51	28°52	4°R18	2°53	23°16	26°14	W26
T 27	8 22 27	6°24'00	16°16	12°50	4°26	27°22	8°43	1° 1	9°45	20°50	28°50	4°17	2°50	23°23	26°12	T 27
F 28	8 26 24	7°24'59	28° 3	14° 5	5°42	28° 6	8°57	1° 7	9°45	20°49	28°49	4°14	2°47	23°30	26° 9	F 28
S 29	8 30 21	8°25'58	9°35	15°21	6°57	28°51	9°11	1°12	9°46	20°48	28°48	4° 8	2°44	23°36	26° 7	S 29
S 30	8 34 17	9°26'56	21°55	16°39	8°12	29°36	9°26	1°18	9°47	20°47	28°46	4° 0	2°41	23°43	26° 4	S 30
M31	8 38 14	10°27'52	4° 5	17°58	9°28	0°Y21	9°40	1°Y23	9°47	20°45	28°45	3°49	2°38	23°50	26°II 2	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23s 4	21s12	2n15	20s27	2n53	23s33	0s 7	9s30	0s54	20s 4	0s30	2s29	2s20	14n23	0s25	4n32
S 2	23 0	19 38	3 10	20 20	3 2	23 34	0 9	9 12	0 53	20 1	0 30	2 27	2 20	14 22	0 25	4 32
M 3	22 54	17 13	3 57	20 16	3 9	23 34	0 12	8 54	0 52	19 58	0 31	2 26	2 19	14 22	0 25	4 33
T 4	22 49	14 2	4 34	20 13	3 13	23 34	0 14	8 36	0 51	19 55	0 31	2 24	2 19	14 22	0 25	4 33
W 5	22 43	10 13	4 58	20 11	3 15	23 33	0 17	8 18	0 50	19 52	0 31	2 22	2 19	14 22	0 25	4 33
T 6	22 36	5 56	5 10	20 12	3 15	23 31	0 19	8 0	0 49	19 49	0 31	2 21	2 19	14 21	0 25	4 33
F 7	22 29	1 20	5 6	20 14	3 13	23 28	0 21	7 41	0 48	19 45	0 31	2 19	2 19	14 21	0 25	4 33
S 8	22 21	3n25	4 47	20 18	3 9	23 25	0 24	7 23	0 47	19 42	0 31	2 17	2 18	14 21	0 25	4 34
S 9	22 13	8 7	4 13	20 23	3 4	23 21	0 26	7 5	0 46	19 39	0 31	2 16	2 18	14 21	0 25	4 34
M10	22 5	12 33	3 23	20 29	2 58	23 16	0 28	6 46	0 45	19 36	0 31	2 14	2 18	14 21	0 25	4 34
T 11	21 56	16 26	2 21	20 36	2 51	23 11	0 30	6 28	0 44	19 32	0 31	2 12	2 18	14 21	0 25	4 34
W12	21 47	19 27	1 9	20 44	2 43	23 5	0 33	6 9	0 43	19 29	0 31	2 10	2 18	14 21	0 25	4 35
T 13	21 37	21 18	0s 9	20 52	2 34	22 58	0 35	5 51	0 42	19 26	0 31	2 9	2 17	14 21	0 24	4 35
F 14	21 27	21 43	1 28	21 1	2 25	22 50	0 37	5 32	0 41	19 22	0 31	2 7	2 17	14 21	0 24	4 35
S 15	21 17	20 35	2 42	21 10	2 16	22 42	0 39	5 14	0 40	19 19	0 31	2 5	2 17	14 21	0 24	4 36
S 16	21 6	18 0	3 44	21 20	2 7	22 33	0 41	4 55	0 39	19 15	0 31	2 3	2 17	14 21	0 24	4 36
M17	20 55	14 13	4 31	21 29	1 57	22 23	0 43	4 37	0 38	19 12	0 31	2 1	2 17	14 21	0 24	4 36
T 18	20 43	9 38	4 59	21 37	1 47	22 13	0 45	4 18	0 37	19 8	0 32	1 59	2 16	14 21	0 24	4 37
W19	20 31	4 38	5 7	21 46	1 37	22 1	0 47	3 59	0 36	19 5	0 32	1 57	2 16	14 21	0 24	4 37
T 20	20 18	0s27	4 56	21 54	1 27	21 50	0 49	3 41	0 36	19 1	0 32	1 55	2 16	14 21	0 24	4 37
F 21	20 6	5 20	4 29	22 1	1 17	21 37	0 51	3 22	0 35	18 58	0 32	1 53	2 16	14 21	0 24	4 38
S 22	19 52	9 49	3 50	22 8	1 8	21 24	0 53	3 3	0 34	18 54	0 32	1 50	2 16	14 21	0 24	4 38
S 23	19 39	13 45	3 0	22 14	0 58	21 11	0 55	2 44	0 33	18 51	0 32	1 48	2 16	14 21	0 24	4 39
M24	19 25	16 59	2 3	22 19	0 49	20 56	0 57	2 26	0 32	18 47	0 32	1 46	2 15	14 21	0 24	4 39
T 25	19 10	19 27	1 2	22 23	0 39	20 41	0 59	2 7	0 31	18 44	0 32	1 44	2 15	14 21	0 24	4 39
W26	18 56	21 2	0n 1	22 27	0 30	20 26	1 0	1 48	0 30	18 40	0 32	1 42	2 15	14 21	0 24	4 40
T 27	18 41	21 41	1 4	22 29	0 21	20 10	1 2	1 30	0 29	18 36	0 32	1 39	2 15	14 21	0 24	4 40
F 28	18 25	21 23	2 3	22 30	0 12	19 53	1 4	1 11	0 28	18 33	0 32	1 37	2 15	14 22	0 24	4 41
S 29	18 10	20 7	2 58	22 30	0 3	19 36	1 5	0 52	0 27	18 29	0 32	1 35	2 15	14 22	0 24	4 41
S 30	17 54	17 57	3 45	22 30	0s 5	19 18	1 7	0 33	0 26	18 25	0 32	1 33	2 14	14 22	0 24	4 42
M31	17s37	14s59	4n23	22s28	0s13	18s59	1s 8	0s15	0s25	18s22	0s33	1s30	2s14	14n22	0s24	4n42

Julian Day Number = 2428899.5, Delta T = 24.06 sec
 Ecliptic obliquity = 23°26'46, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 23°52'28, Lahiri = 22°59'28

ASTRODIENST EPHEMERIS for the year 1938

geocentric

FEBRUARY 1938

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 10	11 ²⁸ 48	16 ²⁵	19 ¹⁸	10 ⁴³	1 ⁶	9 ⁵⁴	1 ²⁹	9 ⁴⁸	20 ^R 44	28 ^R 44	3 ^R 36	2 ³⁴	23 ⁵⁶	25 ^R 59	T 1
W 2	8 46 7	12 ²⁹ 43	28 ⁵⁸	20 ⁴⁰	11 ⁵⁸	1 ⁵¹	10 ⁸	1 ³⁵	9 ⁴⁹	20 ⁴³	28 ⁴²	3 ²³	2 ³¹	24 ³	25 ⁵⁷	W 2
T 3	8 50 3	13 ³⁰ 36	11 ⁴²	22 ³	13 ¹⁴	2 ³⁵	10 ²³	1 ⁴⁰	9 ⁴⁹	20 ⁴²	28 ⁴¹	3 ¹¹	2 ²⁸	24 ¹⁰	25 ⁵⁵	T 3
F 4	8 54 0	14 ³¹ 29	24 ³⁷	23 ²⁶	14 ²⁹	3 ²⁰	10 ³⁷	1 ⁴⁶	9 ⁵⁰	20 ⁴¹	28 ⁴⁰	3 ⁰	2 ²⁵	24 ¹⁶	25 ⁵³	F 4
S 5	8 57 56	15 ³² 19	7 ⁴³	24 ⁵¹	15 ⁴⁴	4 ⁵	10 ⁵¹	1 ⁵²	9 ⁵¹	20 ³⁹	28 ³⁹	2 ⁵²	2 ²²	24 ²³	25 ⁵¹	S 5
S 6	9 1 53	16 ³³ 09	21 ²	26 ¹⁷	17 ⁰	4 ⁴⁹	11 ⁵	1 ⁵⁸	9 ⁵²	20 ³⁸	28 ³⁷	2 ⁴⁷	2 ¹⁸	24 ³⁰	25 ⁴⁹	S 6
M 7	9 5 50	17 ³³ 57	4 ³³	27 ⁴³	18 ¹⁵	5 ³⁴	11 ²⁰	2 ⁴	9 ⁵³	20 ³⁷	28 ³⁶	2 ⁴⁴	2 ¹⁵	24 ³⁶	25 ⁴⁷	M 7
T 8	9 9 46	18 ³⁴ 44	18 ¹⁷	29 ¹¹	19 ³⁰	6 ¹⁹	11 ³⁴	2 ¹⁰	9 ⁵⁴	20 ³⁵	28 ³⁵	2 ^D 44	2 ¹²	24 ⁴³	25 ⁴⁵	T 8
W 9	9 13 43	19 ³⁵ 29	2 ¹⁶	0 ⁴⁰	20 ⁴⁵	7 ³	11 ⁴⁸	2 ¹⁶	9 ⁵⁵	20 ³⁴	28 ³⁴	2 ^R 44	2 ⁹	24 ⁵⁰	25 ⁴³	W 9
T 10	9 17 39	20 ³⁶ 12	16 ³⁰	2 ⁹	22 ¹	7 ⁴⁸	12 ²	2 ²³	9 ⁵⁶	20 ³³	28 ³²	2 ⁴³	2 ⁶	24 ⁵⁶	25 ⁴²	T 10
F 11	9 21 36	21 ³⁶ 54	0 ⁵⁷	3 ³⁹	23 ¹⁶	8 ³²	12 ¹⁶	2 ²⁹	9 ⁵⁸	20 ³¹	28 ³¹	2 ⁴¹	2 ³	25 ³	25 ⁴⁰	F 11
S 12	9 25 32	22 ³⁷ 34	15 ³⁴	5 ¹¹	24 ³¹	9 ¹⁷	12 ³¹	2 ³⁵	9 ⁵⁹	20 ³⁰	28 ³⁰	2 ³⁶	1 ⁵⁹	25 ¹⁰	25 ³⁹	S 12
S 13	9 29 29	23 ³⁸ 13	0 ¹⁶	6 ⁴³	25 ⁴⁶	10 ¹	12 ⁴⁵	2 ⁴¹	10 ⁰	20 ²⁸	28 ²⁹	2 ²⁸	1 ⁵⁶	25 ¹⁶	25 ³⁷	S 13
M14	9 33 25	24 ³⁸ 50	14 ⁵⁶	8 ¹⁶	27 ¹	10 ⁴⁶	12 ⁵⁹	2 ⁴⁸	10 ²	20 ²⁷	28 ²⁸	2 ¹⁷	1 ⁵³	25 ²³	25 ³⁶	M14
T 15	9 37 22	25 ³⁹ 25	29 ²⁶	9 ⁴⁹	28 ¹⁷	11 ³⁰	13 ¹³	2 ⁵⁴	10 ³	20 ²⁵	28 ²⁶	2 ⁵	1 ⁵⁰	25 ³⁰	25 ³⁴	T 15
W16	9 41 19	26 ³⁹ 59	13 ³⁸	11 ²⁴	29 ³²	12 ¹⁴	13 ²⁷	3 ¹	10 ⁴	20 ²⁴	28 ²⁵	1 ⁵³	1 ⁴⁷	25 ³⁶	25 ³³	W16
T 17	9 45 15	27 ⁴⁰ 31	27 ²⁸	13 ⁰	0 ⁴⁷	12 ⁵⁸	13 ⁴¹	3 ⁷	10 ⁶	20 ²²	28 ²⁴	1 ⁴²	1 ⁴⁴	25 ⁴³	25 ³²	T 17
F 18	9 49 12	28 ⁴¹ 02	10 ⁵³	14 ³⁶	2 ²	13 ⁴³	13 ⁵⁵	3 ¹⁴	10 ⁸	20 ²¹	28 ²³	1 ³²	1 ⁴⁰	25 ⁵⁰	25 ³¹	F 18
S 19	9 53 8	29 ⁴¹ 32	23 ⁵²	16 ¹⁴	3 ¹⁷	14 ²⁷	14 ⁹	3 ²¹	10 ⁹	20 ¹⁹	28 ²²	1 ²⁶	1 ³⁷	25 ⁵⁶	25 ³⁰	S 19
S 20	9 57 5	0 ⁴² 01	6 ²⁷	17 ⁵²	4 ³²	15 ¹¹	14 ²³	3 ²⁷	10 ¹¹	20 ¹⁸	28 ²¹	1 ²²	1 ³⁴	26 ³	25 ²⁹	S 20
M21	10 1 1	1 ⁴² 28	18 ⁴²	19 ³¹	5 ⁴⁷	15 ⁵⁵	14 ³⁷	3 ³⁴	10 ¹²	20 ¹⁶	28 ²⁰	1 ²¹	1 ³¹	26 ¹⁰	25 ²⁸	M21
T 22	10 4 58	2 ⁴² 54	0 ⁴³	21 ¹¹	7 ²	16 ³⁹	14 ⁵¹	3 ⁴¹	10 ¹⁴	20 ¹⁵	28 ¹⁹	1 ²⁰	1 ²⁸	26 ¹⁶	25 ²⁸	T 22
W23	10 8 54	3 ⁴³ 18	12 ³⁴	22 ⁵²	8 ¹⁸	17 ²³	15 ⁵	3 ⁴⁸	10 ¹⁶	20 ¹³	28 ¹⁷	1 ²⁰	1 ²⁴	26 ²³	25 ²⁷	W23
T 24	10 12 51	4 ⁴³ 42	24 ²²	24 ³⁵	9 ³³	18 ⁷	15 ¹⁹	3 ⁵⁵	10 ¹⁸	20 ¹²	28 ¹⁶	1 ¹⁹	1 ²¹	26 ³⁰	25 ²⁷	T 24
F 25	10 16 48	5 ⁴⁴ 03	6 ³¹	26 ¹⁸	10 ⁴⁸	18 ⁵¹	15 ³³	4 ¹	10 ²⁰	20 ¹⁰	28 ¹⁵	1 ¹⁶	1 ¹⁸	26 ³⁶	25 ²⁶	F 25
S 26	10 20 44	6 ⁴⁴ 24	18 ⁶	28 ²	12 ³	19 ³⁵	15 ⁴⁷	4 ⁸	10 ²²	20 ⁸	28 ¹⁴	1 ¹⁰	1 ¹⁵	26 ⁴³	25 ²⁶	S 26
S 27	10 24 41	7 ⁴⁴ 42	0 ¹²	29 ⁴⁷	13 ¹⁸	20 ¹⁹	16 ⁰	4 ¹⁵	10 ²³	20 ⁷	28 ¹³	1 ²	1 ¹²	26 ⁵⁰	25 ²⁵	S 27
M28	10 28 37	8 ⁴⁴ 59	12 ³²	1 ³³	14 ³³	21 ³	16 ¹⁴	4 ²²	10 ²⁵	20 ⁵	28 ¹²	0 ⁵⁰	1 ⁹	26 ⁵⁶	25 ²⁵	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	decl	lat
T 1	17s21	11s19	4n49	22s25	0s21	18s40	1s10	0n 4	0s24	18s18	0s33	1s28	2s14	14n23	0s24	4n43	1n 8	23n22	3n 1	20s53	20s41	21s26	16n59	6s24			
W 2	17 4	7 8	5 1	22 20	0 29	18 21	1 11	0 22	0 23	18 14	0 33	1 25	2 14	14 23	0 24	4 43	1 8	23 22	3 1	20 50	20 40	21 25	16 59	6 24			
T 3	16 46	2 34	4 59	22 15	0 37	18 1	1 12	0 41	0 23	18 10	0 33	1 23	2 14	14 23	0 24	4 44	1 8	23 23	3 1	20 48	20 40	21 25	17 0	6 24			
F 4	16 29	2n10	4 41	22 8	0 44	17 40	1 14	1 0	0 22	18 6	0 33	1 20	2 14	14 23	0 24	4 44	1 8	23 23	3 1	20 46	20 39	21 24	17 0	6 23			
S 5	16 11	6 52	4 8	22 0	0 51	17 19	1 15	1 18	0 21	18 3	0 33	1 18	2 14	14 24	0 24	4 45	1 8	23 23	3 1	20 44	20 38	21 24	17 0	6 23			
S 6	15 53	11 20	3 22	21 51	0 58	16 57	1 16	1 37	0 20	17 59	0 33	1 15	2 13	14 24	0 24	4 45	1 8	23 23	3 1	20 43	20 38	21 23	17 0	6 23			
M 7	15 34	15 17	2 24	21 40	1 4	16 35	1 17	1 55	0 19	17 55	0 33	1 13	2 13	14 24	0 24	4 46	1 8	23 24	3 1	20 43	20 37	21 23	17 1	6 22			
T 8	15 16	18 30	1 16	21 29	1 11	16 13	1 18	2 14	0 18	17 51	0 33	1 10	2 13	14 25	0 24	4 47	1 8	23 24	3 1	20 43	20 36	21 22	17 1	6 22			
W 9	14 57	20 40	0 2	21 16	1 17	15 50	1 19	2 32	0 17	17 47	0 33	1 8	2 13	14 25	0 24	4 47	1 8	23 24	3 1	20 43	20 36	21 21	17 1	6 22			
T 10	14 38	21 34	1s12	21 1	1 22	15 26	1 20	2 51	0 16	17 43	0 33	1 5	2 13	14 26	0 24	4 48	1 8	23 25	3 1	20 43	20 35	21 21	17 2	6 21			
F 11	14 18	21 3	2 23	20 46	1 28	15 3	1 21	3 9	0 16	17 40	0 34	1 3	2 13	14 26	0 24	4 48	1 8	23 25	3 1	20 42	20 35	21 20	17 2	6 21			
S 12	13 59	19 8	3 26	20 29	1 33	14 38	1 22	3 27	0 15	17 36	0 34	1 0	2 13	14 26	0 24	4 49	1 8	23 25	3 1	20 41	20 34	21 20	17 2	6 20			
S 13	13 39	15 57	4 15	20 10	1 37	14 14	1 23	3 45	0 14	17 32	0 34	0 57	2 13	14 27	0 24	4 49	1 8	23 26	3 1	20 40	20 33	21 19	17 3	6 20			
M14	13 19	11 47	4 47	19 51	1 42	13 49	1 23	4 4	0 13	17 28	0 34	0 55	2 12	14 27	0 24	4 50	1 8	23 26	3 1	20 37	20 33	21 19	17 3	6 20			
T 15	12 58	6 59	5 0	19 30	1 46	13 23	1 24	4 22	0 12	17 24	0 34	0 52	2 12	14 28	0 24	4 51	1 8	23 26	3 1	20 35	20 32	21 18	17 3	6 19			
W16	12 38	1 54	4 54	19 7	1 50	12 57	1 24	4 40	0 11	17 20	0 34	0 49	2 12	14 28	0 24	4 51	1 8	23 26	3 1	20 33	20 31	21 17	17 4	6 19			
T 17	12 17	3s 8	4 31	18 44	1 53	12 31	1 25	4 58	0 10	17 16	0 34	0 47	2 12	14 29	0 23	4 52	1 8	23 27	3 1	20 30	20 31	21 17	17 4	6 18			
F 18	11 56	7 53	3 53	18 19	1 56	12 5	1 25	5 16	0 10	17 12	0 34	0 44	2 12	14 29	0 23	4 52	1 8	23 27	3 1	20 29	20 30	21 16	17 4	6 18			
S 19	11 35	12 7	3 4	17 52	1 59	11 38	1 26	5 34	0 9	17 8	0 34	0 41	2 12	14 30	0 23	4 53	1 8	23 27	3 1	20 27	20 29	21 16	17 5	6 18			
S 20	11 14	15 41	2 8	17 25	2 2	11 11	1 26	5 52	0 8	17 4	0 35	0 39	2 12	14 30	0 23	4 54	1 9	23 27	3 1	20 26	20 29	21 15	17 5	6 17			
M21	10 52	18 28	1 6	16 56	2 4	10 44	1 26	6 9	0 7	17 0	0 35	0 36	2 12	14 31	0 23	4 54	1 9	23 28	3 1	20 26	20 28	21 14	17 5	6 17			
T 22	10 31	20 22	0 3	16 25	2 5	10 16	1 26	6 27	0 6	16 56	0 35	0 33	2 12	14 31	0 23	4 55	1 9	23 28	3 1	20 26	20 28	21 14	17 6	6 16			
W23	10 9	21 20	0n59	15 53	2 7	9 48	1 27	6 45	0 5	16 52	0 35	0 30	2 12	14 32	0 23	4 56	1 9	23 28	3 1	20 26	20 27	21 13	17 6	6 16			
T 24	9 47	21 21	1 59	15 20	2 7	9 20	1 27	7 2	0 5	16 48	0 35	0 27	2 11	14 33	0 23	4 56	1 9	23 28	3 1	20 26	20 26	21 13	17 7	6 16			
F 25	9 25	20 25	2 53	14 46	2 8	8 51	1 27	7 20	0 4	16 44	0 35	0 25	2 11	14 33	0 23	4 57	1 9	23 29	3 1	20 25	20 26	21 12	17 7	6 15			
S 26	9 2	18 35	3 41	14 10	2 8	8 23	1 27	7 37	0 3	16 40	0 35	0 22	2 11	14 34	0 23	4 58	1 9	23 29	3 1	20 24	20 25	21 11	17 7	6 15			
S 27	8 40	15 54	4 19	13 32	2 7	7 54	1 26	7 54	0 2	16 36	0 35	0 19	2 11	14 34	0 23	4 58	1 9	23 29	3 1	20 22	20 24	21 11	17 8	6 14			
M28	8s17	12s29	4n46	12s54	2s 7	7s25	1s26	8n12	0s 1	16s32	0s35	0s16	2s11	14n35	0s23	4n59	1n 9	23n29	3n 1	20s20	20s24	21s10	17n 8	6s14			

ASTRODIENST EPHEMERIS for the year 1938
geocentric

MARCH 1938

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 32 34	9 ^h 45'15"	25 ^h 6'	3 ^h 20'	15 ^h 48'	21 ^h 47'	16 ^h 28'	4 ^h 29'	10 ^h 28'	20 ^h R 4	28 ^h R11	0 ^h R37	1 ^h 7' 5"	27 ^h 7' 3"	25 ^h R25	T 1
W 2	10 36 30	10 ^h 45'28"	7 ^h 56'	5 ^h 8'	17 ^h 3'	22 ^h 30'	16 ^h 41'	4 ^h 36'	10 ^h 30'	20 ^h 7' 2"	28 ^h 11'	0 ^h 24'	1 ^h 2"	27 ^h 9"	25 ^h D25	W 2
T 3	10 40 27	11 ^h 45'40"	21 ^h 0'	6 ^h 57'	18 ^h 17'	23 ^h 14'	16 ^h 55'	4 ^h 44'	10 ^h 32'	20 ^h 0'	28 ^h 10'	0 ^h 11'	0 ^h 59'	27 ^h 16'	25 ^h II25	T 3
F 4	10 44 23	12 ^h 45'50"	4 ^h Y18	8 ^h 48'	19 ^h 32'	23 ^h 58'	17 ^h 9'	4 ^h 51'	10 ^h 34'	19 ^h 59'	28 ^h 9'	29 ^h III59	0 ^h 56'	27 ^h 23'	25 ^h 25'	F 4
S 5	10 48 20	13 ^h 45'58"	17 ^h 47'	10 ^h 39'	20 ^h 47'	24 ^h 42'	17 ^h 22'	4 ^h 58'	10 ^h 36'	19 ^h 57'	28 ^h 8'	29 ^h 51'	0 ^h 53'	27 ^h 29'	25 ^h 25'	S 5
S 6	10 52 17	14 ^h 46'05"	1 ^h 8'26"	12 ^h 31'	22 ^h 2'	25 ^h 25'	17 ^h 36'	5 ^h 5'	10 ^h 38'	19 ^h 55'	28 ^h 7'	29 ^h 45'	0 ^h 50'	27 ^h 36'	25 ^h 26'	S 6
M 7	10 56 13	15 ^h 46'09"	15 ^h 13'	14 ^h 24'	23 ^h 17'	26 ^h 9'	17 ^h 49'	5 ^h 12'	10 ^h 41'	19 ^h 54'	28 ^h 6'	29 ^h 42'	0 ^h 46'	27 ^h 43'	25 ^h 26'	M 7
T 8	11 0 10	16 ^h 46'11"	29 ^h 6'	16 ^h 19'	24 ^h 32'	26 ^h 52'	18 ^h 3'	5 ^h 20'	10 ^h 43'	19 ^h 52'	28 ^h 5'	29 ^h D42	0 ^h 43'	27 ^h 49'	25 ^h 26'	T 8
W 9	11 4 6	17 ^h 46'10"	13 ^h II 6'	18 ^h 14'	25 ^h 47'	27 ^h 36'	18 ^h 16'	5 ^h 27'	10 ^h 45'	19 ^h 50'	28 ^h 4'	29 ^h R42	0 ^h 40'	27 ^h 56'	25 ^h 27'	W 9
T 10	11 8 3	18 ^h 46'08"	27 ^h 11'	20 ^h 10'	27 ^h 1'	28 ^h 19'	18 ^h 29'	5 ^h 34'	10 ^h 48'	19 ^h 49'	28 ^h 4'	29 ^h 42'	0 ^h 37'	28 ^h 3'	25 ^h 28'	T 10
F 11	11 11 59	19 ^h 46'03"	11 ^h 22'	22 ^h 7'	28 ^h 16'	29 ^h 3'	18 ^h 42'	5 ^h 41'	10 ^h 50'	19 ^h 47'	28 ^h 3'	29 ^h 40'	0 ^h 34'	28 ^h 9'	25 ^h 28'	F 11
S 12	11 15 56	20 ^h 45'56"	25 ^h 37'	24 ^h 4'	29 ^h 31'	29 ^h 46'	18 ^h 56'	5 ^h 49'	10 ^h 53'	19 ^h 45'	28 ^h 2'	29 ^h 36'	0 ^h 30'	28 ^h 16'	25 ^h 29'	S 12
S 13	11 19 52	21 ^h 45'47"	9 ^h Ω52	26 ^h 2'	0 ^h Y46	0 ^h 8'29"	19 ^h 9'	5 ^h 56'	10 ^h 55'	19 ^h 44'	28 ^h 1'	29 ^h 29'	0 ^h 27'	28 ^h 23'	25 ^h 30'	S 13
M14	11 23 49	22 ^h 45'36"	24 ^h 4'	28 ^h 1'	2 ^h 0'	1 ^h 13'	19 ^h 22'	6 ^h 3'	10 ^h 58'	19 ^h 42'	28 ^h 1'	29 ^h 20'	0 ^h 24'	28 ^h 29'	25 ^h 31'	M14
T 15	11 27 46	23 ^h 45'22"	8 ^h 7' 8"	29 ^h 59'	3 ^h 15'	1 ^h 56'	19 ^h 35'	6 ^h 11'	11 ^h 0'	19 ^h 40'	28 ^h 0'	29 ^h 9'	0 ^h 21'	28 ^h 36'	25 ^h 32'	T 15
W16	11 31 42	24 ^h 45'07"	21 ^h 59'	1 ^h Y59	4 ^h 30'	2 ^h 39'	19 ^h 48'	6 ^h 18'	11 ^h 3'	19 ^h 39'	27 ^h 59'	28 ^h 58'	0 ^h 18'	28 ^h 43'	25 ^h 33'	W16
T 17	11 35 39	25 ^h 44'49"	5 ^h Δ32	3 ^h 58'	5 ^h 44'	3 ^h 22'	20 ^h 1'	6 ^h 26'	11 ^h 5'	19 ^h 37'	27 ^h 59'	28 ^h 48'	0 ^h 15'	28 ^h 49'	25 ^h 34'	T 17
F 18	11 39 35	26 ^h 44'29"	18 ^h 46'	5 ^h 56'	6 ^h 59'	4 ^h 5'	20 ^h 14'	6 ^h 33'	11 ^h 8'	19 ^h 35'	27 ^h 58'	28 ^h 40'	0 ^h 11'	28 ^h 56'	25 ^h 36'	F 18
S 19	11 43 32	27 ^h 44'08"	1 ^h III39	7 ^h 54'	8 ^h 13'	4 ^h 48'	20 ^h 26'	6 ^h 41'	11 ^h 11'	19 ^h 34'	27 ^h 58'	28 ^h 34'	0 ^h 8'	29 ^h 3'	25 ^h 37'	S 19
S 20	11 47 28	28 ^h 43'45"	14 ^h 12'	9 ^h 50'	9 ^h 28'	5 ^h 31'	20 ^h 39'	6 ^h 48'	11 ^h 14'	19 ^h 32'	27 ^h 57'	28 ^h 31'	0 ^h 5'	29 ^h 9'	25 ^h 38'	S 20
M21	11 51 25	29 ^h 43'20"	26 ^h 28'	11 ^h 45'	10 ^h 42'	6 ^h 14'	20 ^h 52'	6 ^h 55'	11 ^h 16'	19 ^h 30'	27 ^h 57'	28 ^h D30	0 ^h 2'	29 ^h 16'	25 ^h 40'	M21
T 22	11 55 21	0 ^h Y42'53"	8 ^h 7'30"	13 ^h 39'	11 ^h 57'	6 ^h 57'	21 ^h 4'	7 ^h 3'	11 ^h 19'	19 ^h 29'	27 ^h 56'	28 ^h 30'	29 ^h III59	29 ^h 23'	25 ^h 42'	T 22
W23	11 59 18	1 ^h 42'24"	20 ^h 23'	15 ^h 30'	13 ^h 11'	7 ^h 40'	21 ^h 17'	7 ^h 10'	11 ^h 22'	19 ^h 27'	27 ^h 56'	28 ^h 31'	29 ^h 55'	29 ^h 29'	25 ^h 43'	W23
T 24	12 3 14	2 ^h 41'54"	2 ^h 3'12"	17 ^h 19'	14 ^h 26'	8 ^h 23'	21 ^h 29'	7 ^h 18'	11 ^h 25'	19 ^h 25'	27 ^h 55'	28 ^h R32	29 ^h 52'	29 ^h 36'	25 ^h 45'	T 24
F 25	12 7 11	3 ^h 41'22"	14 ^h 3'	19 ^h 4'	15 ^h 40'	9 ^h 6'	21 ^h 42'	7 ^h 25'	11 ^h 28'	19 ^h 24'	27 ^h 55'	28 ^h 31'	29 ^h 49'	29 ^h 43'	25 ^h 47'	F 25
S 26	12 11 8	4 ^h 40'48"	26 ^h 0'	20 ^h 46'	16 ^h 55'	9 ^h 48'	21 ^h 54'	7 ^h 33'	11 ^h 31'	19 ^h 22'	27 ^h 54'	28 ^h 28'	29 ^h 46'	29 ^h 49'	25 ^h 49'	S 26
S 27	12 15 4	5 ^h 40'12"	8 ^h Δ10	22 ^h 24'	18 ^h 9'	10 ^h 31'	22 ^h 6'	7 ^h 40'	11 ^h 33'	19 ^h 21'	27 ^h 54'	28 ^h 24'	29 ^h 43'	29 ^h 56'	25 ^h 51'	S 27
M28	12 19 1	6 ^h 39'35"	20 ^h 34'	23 ^h 58'	19 ^h 23'	11 ^h 14'	22 ^h 19'	7 ^h 48'	11 ^h 36'	19 ^h 19'	27 ^h 53'	28 ^h 17'	29 ^h 40'	0 ^h 3' 3"	25 ^h 53'	M28
T 29	12 22 57	7 ^h 38'55"	3 ^h Y17	25 ^h 27'	20 ^h 38'	11 ^h 56'	22 ^h 31'	7 ^h 55'	11 ^h 39'	19 ^h 18'	27 ^h 53'	28 ^h 9'	29 ^h 36'	0 ^h 9"	25 ^h 55'	T 29
W30	12 26 54	8 ^h 38'14"	16 ^h 19'	26 ^h 51'	21 ^h 52'	12 ^h 39'	22 ^h 43'	8 ^h 3'	11 ^h 42'	19 ^h 16'	27 ^h 53'	28 ^h 0'	29 ^h 33'	0 ^h 16'	25 ^h 57'	W30
T 31	12 30 50	9 ^h Y37'31"	29 ^h Y41	28 ^h Y 9'	23 ^h Y 6'	13 ^h 8'21"	22 ^h Δ55	8 ^h Y10	11 ^h 8'45"	19 ^h 7'14"	27 ^h 52'	27 ^h III51	29 ^h III30	0 ^h 3'23"	26 ^h II 0	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1938

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 34 47	10°36'45	13°21'	29°22'	24°21'	14°8' 4	23°36' 6	8°18'	11°49'	19°13'	27°52'	27°R44	29°27'	0°29'	26°II 2	F 1
S 2	12 38 43	11°35'58	27°15'	0°29'	25°35'	14°46'	23°18'	8°25'	11°52'	19°11'	27°52'	27°M38	29°24'	0°36'	26° 4	S 2
S 3	12 42 40	12°35'09	11°20'	1°29'	26°49'	15°29'	23°30'	8°33'	11°55'	19°10'	27°52'	27°35'	29°21'	0°43'	26° 7	S 3
M 4	12 46 37	13°34'17	25°31'	2°24'	28° 3	16°11'	23°42'	8°41'	11°58'	19° 8	27°52'	27°D34	29°17'	0°49'	26°10	M 4
T 5	12 50 33	14°33'23	9°14'	3°11'	29°17'	16°53'	23°53'	8°48'	12° 1	19° 7	27°51'	27°34'	29°14'	0°56'	26°12	T 5
W 6	12 54 30	15°32'27	24° 0	3°52'	0°32'	17°36'	24° 5	8°55'	12° 4	19° 5	27°51'	27°36'	29°11'	1° 3	26°15	W 6
T 7	12 58 26	16°31'29	8°12'	4°26'	1°46'	18°18'	24°16'	9° 3	12° 7	19° 4	27°51'	27°37'	29° 8	1° 9	26°18	T 7
F 8	13 2 23	17°30'28	22°20'	4°54'	3° 0	19° 0	24°27'	9°10'	12°11'	19° 3	27°51'	27°R37	29° 5	1°16'	26°21	F 8
S 9	13 6 19	18°29'25	6°23'	5°14'	4°14'	19°42'	24°38'	9°18'	12°14'	19° 1	27°51'	27°36'	29° 1	1°23'	26°24	S 9
S 10	13 10 16	19°28'20	20°19'	5°28'	5°28'	20°24'	24°49'	9°25'	12°17'	19° 0	27°51'	27°33'	28°58'	1°29'	26°27	S 10
M 11	13 14 12	20°27'12	4°11'	5°35'	6°42'	21° 6	25° 0	9°33'	12°20'	18°58'	27°D51	27°28'	28°55'	1°36'	26°30	M 11
T 12	13 18 9	21°26'02	17°42'	5°R36	7°56'	21°48'	25°11'	9°40'	12°24'	18°57'	27°51'	27°22'	28°52'	1°43'	26°33	T 12
W 13	13 22 6	22°24'49	1° 5	5°30'	9°10'	22°30'	25°22'	9°48'	12°27'	18°56'	27°51'	27°16'	28°49'	1°49'	26°36	W 13
T 14	13 26 2	23°23'35	14°15'	5°18'	10°23'	23°12'	25°33'	9°55'	12°30'	18°54'	27°51'	27°11'	28°46'	1°56'	26°39	T 14
F 15	13 29 59	24°22'19	27° 9	5° 1	11°37'	23°54'	25°43'	10° 2	12°34'	18°53'	27°51'	27° 7	28°42'	2° 3	26°43	F 15
S 16	13 33 55	25°21'01	9°14'	4°38'	12°51'	24°36'	25°54'	10°10'	12°37'	18°52'	27°51'	27° 4	28°39'	2° 9	26°46	S 16
S 17	13 37 52	26°19'40	22°12'	4°11'	14° 5	25°18'	26° 4	10°17'	12°40'	18°50'	27°51'	27°D 3	28°36'	2°16'	26°50	S 17
M 18	13 41 48	27°18'18	4°23'	3°39'	15°19'	26° 0	26°14'	10°24'	12°44'	18°49'	27°52'	27° 3	28°33'	2°23'	26°53	M 18
T 19	13 45 45	28°16'55	16°23'	3° 4	16°32'	26°41'	26°24'	10°32'	12°47'	18°48'	27°52'	27° 4	28°30'	2°29'	26°57	T 19
W 20	13 49 41	29°15'29	28°16'	2°27'	17°46'	27°23'	26°34'	10°39'	12°50'	18°47'	27°52'	27° 6	28°27'	2°36'	27° 1	W 20
T 21	13 53 38	0°14'02	10°28'	1°47'	19° 0	28° 5	26°44'	10°46'	12°54'	18°46'	27°52'	27° 7	28°23'	2°43'	27° 4	T 21
F 22	13 57 35	1°12'33	21°57'	1° 6	20°13'	28°46'	26°54'	10°53'	12°57'	18°45'	27°52'	27° 9	28°20'	2°49'	27° 8	F 22
S 23	14 1 31	2°11'03	3°55'	0°24'	21°27'	29°28'	27° 4	11° 1	13° 1	18°43'	27°53'	27°R 9	28°17'	2°56'	27°12	S 23
S 24	14 5 28	3° 9'31	16° 4	29°43'	22°40'	0°II 9	27°13'	11° 8	13° 4	18°42'	27°53'	27° 8	28°14'	3° 3	27°16	S 24
M 25	14 9 24	4° 7'57	28°29'	29° 2	23°54'	0°51'	27°23'	11°15'	13° 7	18°41'	27°53'	27° 6	28°11'	3° 9	27°20	M 25
T 26	14 13 21	5° 6'22	11°14'	28°24'	25° 8	1°32'	27°32'	11°22'	13°11'	18°40'	27°54'	27° 4	28° 7	3°16'	27°24	T 26
W 27	14 17 17	6° 4'45	24°21'	27°47'	26°21'	2°14'	27°41'	11°29'	13°14'	18°39'	27°54'	27° 1	28° 4	3°23'	27°28	W 27
T 28	14 21 14	7° 3'06	7°51'	27°14'	27°34'	2°55'	27°50'	11°36'	13°18'	18°38'	27°55'	26°58'	28° 1	3°29'	27°32	T 28
F 29	14 25 10	8° 1'26	21°44'	26°44'	28°48'	3°36'	27°59'	11°43'	13°21'	18°37'	27°55'	26°55'	27°58'	3°36'	27°36	F 29
S 30	14 29 7	8°59'44	5°57'	26°17'	0°II 1	4°II 17	28°38' 8	11°50'	13°25'	18°36'	27°55'	26°54'	27°55'	3°43'	27°40	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	4n12	8n35	3n36	13n26	2n20	8n42	0s48	16n24	0n21	14s27	0s40	1n18	2s10	15n 1	0s23	5n20	1n 9	23n33	3n 2	19s40	20s 2	20s47	17n23	6s 0			
S 2	4 35	12 56	2 36	13 58	2 29	9 11	0 46	16 37	0 22	14 23	0 40	1 21	2 10	15 2	0 23	5 20	1 9	23 34	3 2	19 38	20 2	20 46	17 23	6 0			
S 3	4 58	16 36	1 27	14 27	2 38	9 40	0 44	16 50	0 22	14 20	0 40	1 24	2 10	15 3	0 22	5 21	1 9	23 34	3 2	19 38	20 1	20 46	17 24	6 0			
M 4	5 21	19 20	0 11	14 53	2 45	10 8	0 42	17 3	0 23	14 16	0 41	1 27	2 10	15 4	0 22	5 21	1 9	23 34	3 2	19 37	20 0	20 45	17 24	5 59			
T 5	5 44	20 50	1s 6	15 16	2 52	10 37	0 40	17 16	0 24	14 12	0 41	1 29	2 11	15 5	0 22	5 22	1 9	23 34	3 2	19 37	20 0	20 44	17 25	5 59			
W 6	6 7	21 0	2 18	15 36	2 58	11 5	0 37	17 28	0 24	14 9	0 41	1 32	2 11	15 6	0 22	5 22	1 9	23 34	3 2	19 38	19 59	20 43	17 25	5 58			
T 7	6 30	19 49	3 23	15 52	3 2	11 32	0 35	17 41	0 25	14 5	0 41	1 35	2 11	15 7	0 22	5 23	1 9	23 34	3 2	19 38	19 58	20 42	17 26	5 58			
F 8	6 52	17 25	4 14	16 4	3 6	12 0	0 33	17 53	0 25	14 1	0 41	1 38	2 11	15 8	0 22	5 24	1 9	23 34	3 2	19 38	19 57	20 42	17 26	5 58			
S 9	7 15	14 0	4 50	16 13	3 8	12 27	0 31	18 5	0 26	13 58	0 41	1 41	2 11	15 9	0 22	5 24	1 9	23 34	3 2	19 38	19 57	20 41	17 27	5 57			
S 10	7 37	9 51	5 8	16 19	3 9	12 54	0 28	18 17	0 27	13 54	0 42	1 44	2 11	15 10	0 22	5 25	1 9	23 34	3 1	19 37	19 56	20 40	17 27	5 57			
M11	8 0	5 13	5 9	16 21	3 8	13 21	0 26	18 29	0 27	13 51	0 42	1 47	2 11	15 11	0 22	5 25	1 9	23 34	3 1	19 36	19 55	20 39	17 28	5 57			
T 12	8 22	0 23	4 52	16 19	3 6	13 47	0 23	18 40	0 28	13 47	0 42	1 50	2 11	15 12	0 22	5 26	1 9	23 34	3 1	19 35	19 55	20 38	17 28	5 56			
W13	8 44	4s23	4 19	16 14	3 3	14 13	0 21	18 51	0 28	13 44	0 42	1 52	2 11	15 13	0 22	5 26	1 9	23 34	3 1	19 33	19 54	20 38	17 28	5 56			
T 14	9 5	8 53	3 32	16 5	2 58	14 39	0 19	19 3	0 29	13 40	0 42	1 55	2 11	15 14	0 22	5 27	1 9	23 34	3 1	19 32	19 53	20 37	17 29	5 55			
F 15	9 27	12 53	2 36	15 53	2 52	15 4	0 16	19 14	0 29	13 37	0 43	1 58	2 11	15 15	0 22	5 27	1 9	23 34	3 1	19 31	19 53	20 36	17 29	5 55			
S 16	9 49	16 14	1 33	15 38	2 44	15 29	0 14	19 25	0 30	13 34	0 43	2 1	2 11	15 16	0 22	5 28	1 9	23 34	3 1	19 30	19 52	20 35	17 30	5 55			
S 17	10 10	18 45	0 26	15 20	2 35	15 54	0 11	19 35	0 31	13 30	0 43	2 4	2 11	15 17	0 22	5 28	1 9	23 34	3 1	19 30	19 51	20 34	17 30	5 54			
M18	10 31	20 22	0n40	15 0	2 24	16 18	0 8	19 46	0 31	13 27	0 43	2 7	2 11	15 19	0 22	5 29	1 9	23 33	3 1	19 30	19 51	20 33	17 31	5 54			
T 19	10 52	21 1	1 44	14 36	2 12	16 42	0 6	19 56	0 32	13 24	0 43	2 9	2 11	15 20	0 22	5 29	1 9	23 33	3 1	19 30	19 50	20 32	17 31	5 54			
W20	11 13	20 43	2 43	14 11	1 59	17 5	0 3	20 6	0 32	13 21	0 43	2 12	2 11	15 21	0 22	5 30	1 9	23 33	3 1	19 31	19 49	20 32	17 31	5 53			
T 21	11 33	19 29	3 35	13 44	1 45	17 28	0 1	20 16	0 33	13 17	0 44	2 15	2 11	15 22	0 22	5 30	1 9	23 33	3 1	19 31	19 48	20 31	17 32	5 53			
F 22	11 54	17 25	4 18	13 15	1 29	17 50	0n 2	20 26	0 33	13 14	0 44	2 18	2 12	15 23	0 22	5 30	1 9	23 33	3 1	19 32	19 48	20 30	17 32	5 53			
S 23	12 14	14 35	4 49	12 46	1 14	18 12	0 4	20 35	0 34	13 11	0 44	2 20	2 12	15 24	0 22	5 31	1 9	23 33	3 1	19 32	19 47	20 29	17 33	5 52			
S 24	12 34	11 6	5 9	12 16	0 57	18 34	0 7	20 45	0 34	13 8	0 44	2 23	2 12	15 25	0 22	5 31	1 9	23 33	3 1	19 31	19 46	20 28	17 33	5 52			
M25	12 54	7 5	5 15	11 46	0 40	18 55	0 10	20 54	0 35	13 5	0 45	2 26	2 12	15 26	0 22	5 32	1 9	23 33	3 1	19 31	19 46	20 27	17 33	5 52			
T 26	13 14	2 39	5 5	11 16	0 23	19 15	0 12	21 3	0 35	13 2	0 45	2 28	2 12	15 27	0 22	5 32	1 9	23 33	3 1	19 30	19 45	20 26	17 34	5 52			
W27	13 33	2n 2	4 40	10 47	0 6	19 35	0 15	21 12	0 36	12 59	0 45	2 31	2 12	15 28	0 22	5 32	1 9	23 33	3 1	19 30	19 44	20 25	17 34	5 51			
T 28	13 52	6 46	3 59	10 19	0s11	19 55	0 18	21 20	0 36	12 56	0 45	2 34	2 12	15 29	0 22	5 33	1 9	23 33	3 1	19 29	19 43	20 25	17 34	5 51			
F 29	14 11	11 17	3 2	9 53	0 28	20 14	0 20	21 29	0 37	12 53	0 45	2 36	2 12	15 30	0 22	5 33	1 9	23 33	3 1	19 29	19 43	20 24	17 35	5 50			
S 30	14n30	15n17	1n53	9n28	0s44	20n32	0n23	21n37	0n37	12s50	0s46	2n39	2s12	15n31	0s22	5n34	1n 8	23n33	3n 1	19s28	19s42	20s23	17n35	5s50			

ASTRODIENST EPHEMERIS for the year 1938
geocentric

JULY 1938

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 33 33	8°30'15	22°23'30	18°33'33	14°23'33	15°46'46	2°R 7	17°17'17	16°40'40	18°38'38	29°55'55	26°R 4	24°23'23	10°33'33	3°51'01	F 1
S 2	18 37 30	9°27'28	6°17'55	20°5'5	15°43'43	16°25'25	2°H 5	17°20'20	16°42'42	18°39'39	29°6'6	26°R 0	24°35'35	10°43'43	3°15'15	S 2
S 3	18 41 27	10°24'41	20°53'53	22°4'4	16°54'54	17°4'4	2°3'3	17°23'23	16°44'44	18°40'40	29°8'8	25°56'56	24°31'31	10°50'50	3°21'21	S 3
M 4	18 45 23	11°21'53	4°22'22	24°2'2	18°4'4	17°43'43	2°0'0	17°26'26	16°47'47	18°41'41	29°9'9	25°54'54	24°28'28	10°57'57	3°27'27	M 4
T 5	18 49 20	12°19'05	17°25'25	25°58'58	19°14'14	18°22'22	1°58'58	17°28'28	16°49'49	18°42'42	29°11'11	25°D54'54	24°25'25	11°4'4	3°33'33	T 5
W 6	18 53 16	13°16'17	0°11'6	27°52'52	20°25'25	19°2'2	1°55'55	17°31'31	16°51'51	18°43'43	29°12'12	25°55'55	24°22'22	11°10'10	3°38'38	W 6
T 7	18 57 13	14°13'29	12°28'28	29°45'45	21°35'35	19°41'41	1°52'52	17°34'34	16°53'53	18°44'44	29°14'14	25°56'56	24°19'19	11°17'17	3°44'44	T 7
F 8	19 1 9	15°10'40	24°37'37	14°23'35	22°45'45	20°20'20	1°49'49	17°36'36	16°56'56	18°45'45	29°16'16	25°R57'57	24°16'16	11°24'24	3°50'50	F 8
S 9	19 5 6	16°7'52	6°17'36	3°23'23	23°55'55	20°59'59	1°46'46	17°38'38	16°58'58	18°46'46	29°17'17	25°57'57	24°12'12	11°30'30	3°56'56	S 9
S 10	19 9 2	17°5'03	18°29'29	5°9'9	25°5'5	21°38'38	1°43'43	17°40'40	17°0'0	18°48'48	29°19'19	25°54'54	24°9'9	11°37'37	4°1'1	S 10
M 11	19 12 59	18°2'15	0°31'19	6°53'53	26°15'15	22°17'17	1°39'39	17°42'42	17°2'2	18°49'49	29°21'21	25°49'49	24°6'6	11°44'44	4°7'7	M 11
T 12	19 16 56	18°59'26	12°9'9	8°35'35	27°24'24	22°56'56	1°36'36	17°44'44	17°4'4	18°50'50	29°22'22	25°42'42	24°3'3	11°50'50	4°13'13	T 12
W 13	19 20 52	19°56'38	24°0'0	10°15'15	28°34'34	23°34'34	1°32'32	17°46'46	17°6'6	18°52'52	29°24'24	25°33'33	24°0'0	11°57'57	4°18'18	W 13
T 14	19 24 49	20°53'50	5°55'55	11°54'54	29°43'43	24°13'13	1°28'28	17°48'48	17°8'8	18°53'53	29°26'26	25°23'23	23°56'56	12°4'4	4°24'24	T 14
F 15	19 28 45	21°51'03	17°56'56	13°30'30	0°17'53	24°52'52	1°23'23	17°50'50	17°10'10	18°54'54	29°27'27	25°13'13	23°53'53	12°10'10	4°30'30	F 15
S 16	19 32 42	22°48'16	0°17'2	15°4'4	2°2'2	25°31'31	1°19'19	17°51'51	17°12'12	18°56'56	29°29'29	25°3'3	23°50'50	12°17'17	4°35'35	S 16
S 17	19 36 38	23°45'29	12°18'18	16°36'36	3°11'11	26°10'10	1°14'14	17°53'53	17°14'14	18°57'57	29°30'30	24°55'55	23°47'47	12°24'24	4°41'41	S 17
M 18	19 40 35	24°42'43	24°44'44	18°6'6	4°21'21	26°49'49	1°10'10	17°54'54	17°15'15	18°59'59	29°32'32	24°49'49	23°44'44	12°31'31	4°46'46	M 18
T 19	19 44 31	25°39'58	7°17'24	19°34'34	5°30'30	27°28'28	1°5'5	17°55'55	17°17'17	19°0'0	29°34'34	24°45'45	23°41'41	12°37'37	4°52'52	T 19
W 20	19 48 28	26°37'13	20°21'21	21°1'1	6°39'39	28°6'6	1°0'0	17°57'57	17°19'19	19°1'1	29°35'35	24°43'43	23°37'37	12°44'44	4°58'58	W 20
T 21	19 52 25	27°34'29	3°37'37	22°25'25	7°48'48	28°45'45	0°54'54	17°58'58	17°20'20	19°3'3	29°37'37	24°D43'43	23°34'34	12°51'51	5°3'3	T 21
F 22	19 56 21	28°31'46	17°17'17	23°47'47	8°56'56	29°24'24	0°49'49	17°59'59	17°22'22	19°5'5	29°39'39	24°R44'44	23°31'31	12°57'57	5°9'9	F 22
S 23	20 0 18	29°29'04	1°17'22	25°6'6	10°5'5	0°12'3	0°43'43	18°0'0	17°24'24	19°6'6	29°40'40	24°44'44	23°28'28	13°4'4	5°14'14	S 23
S 24	20 4 14	0°12'26	15°50'50	26°24'24	11°14'14	0°41'41	0°38'38	18°0'0	17°25'25	19°8'8	29°42'42	24°42'42	23°25'25	13°11'11	5°20'20	S 24
M 25	20 8 11	1°23'43	0°54'54	27°39'39	12°22'22	1°20'20	0°32'32	18°1'1	17°27'27	19°9'9	29°44'44	24°38'38	23°22'22	13°17'17	5°25'25	M 25
T 26	20 12 7	2°21'04	15°47'47	28°52'52	13°30'30	1°59'59	0°26'26	18°2'2	17°28'28	19°11'11	29°45'45	24°32'32	23°18'18	13°24'24	5°30'30	T 26
W 27	20 16 4	3°18'25	1°12'0	0°17'3	14°39'39	2°37'37	0°20'20	18°2'2	17°29'29	19°13'13	29°47'47	24°23'23	23°15'15	13°31'31	5°36'36	W 27
T 28	20 20 0	4°15'47	16°9'9	1°11'11	15°47'47	3°16'16	0°14'14	18°2'2	17°31'31	19°14'14	29°49'49	24°13'13	23°12'12	13°37'37	5°41'41	T 28
F 29	20 23 57	5°13'10	1°17'4	2°17'17	16°55'55	3°55'55	0°7'7	18°3'3	17°32'32	19°16'16	29°50'50	24°3'3	23°9'9	13°44'44	5°46'46	F 29
S 30	20 27 54	6°10'33	15°36'36	3°20'20	18°3'3	4°33'33	0°1'1	18°3'3	17°33'33	19°18'18	29°52'52	23°54'54	23°6'6	13°51'51	5°52'52	S 30
S 31	20 31 50	7°17'57	29°17'40	4°17'21	19°17'11	5°12'12	29°54'54	18°R 3	17°35'35	19°19'19	29°54'54	23°17'47	23°17'2	13°57'57	5°57'57	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
F 1	23n10	9n 8	5s 9	24n 2	1n50	18n13	1n49	23n31	1n 0	11s41	1s 2	4n34	2s24	16n28	0s22	5n31	1n 7	23n19	3n 2	19s17	18s56	19s20	17n40	5s45	
S 2	23 6	4 16	5 4	23 47	1 51	17 51	1 48	23 26	1 0	11 42	1 2	4 35	2 25	16 29	0 22	5 31	1 7	23 19	3 2	19 15	18 55	19 19	17 40	5 45	
S 3	23 2	0s41	4 41	23 29	1 53	17 29	1 47	23 21	1 1	11 43	1 2	4 36	2 25	16 29	0 22	5 31	1 7	23 18	3 2	19 15	18 54	19 17	17 40	5 45	
M 4	22 58	5 27	4 3	23 10	1 53	17 6	1 46	23 17	1 1	11 44	1 2	4 36	2 25	16 30	0 22	5 30	1 7	23 18	3 2	19 14	18 54	19 16	17 39	5 45	
T 5	22 52	9 49	3 13	22 48	1 53	16 43	1 45	23 12	1 1	11 45	1 3	4 37	2 26	16 31	0 22	5 30	1 7	23 18	3 2	19 14	18 53	19 15	17 39	5 45	
W 6	22 47	13 37	2 15	22 25	1 52	16 20	1 44	23 6	1 1	11 46	1 3	4 38	2 26	16 31	0 22	5 29	1 7	23 17	3 2	19 14	18 52	19 14	17 39	5 45	
T 7	22 41	16 44	1 12	22 0	1 50	15 56	1 43	23 1	1 2	11 48	1 3	4 39	2 26	16 32	0 22	5 29	1 7	23 17	3 2	19 15	18 51	19 13	17 38	5 45	
F 8	22 35	19 3	0 7	21 34	1 48	15 32	1 41	22 55	1 2	11 49	1 4	4 39	2 26	16 33	0 22	5 28	1 7	23 17	3 2	19 15	18 50	19 12	17 38	5 45	
S 9	22 28	20 29	0n57	21 7	1 45	15 7	1 40	22 50	1 2	11 50	1 4	4 40	2 27	16 33	0 22	5 28	1 7	23 16	3 2	19 15	18 50	19 10	17 38	5 46	
S 10	22 21	20 59	1 58	20 38	1 42	14 43	1 38	22 44	1 2	11 52	1 4	4 40	2 27	16 34	0 22	5 27	1 7	23 16	3 2	19 14	18 49	19 9	17 38	5 46	
M 11	22 14	20 33	2 54	20 8	1 38	14 17	1 37	22 38	1 2	11 53	1 4	4 41	2 27	16 34	0 22	5 27	1 7	23 16	3 2	19 13	18 48	19 8	17 37	5 46	
T 12	22 6	19 12	3 42	19 37	1 33	13 52	1 35	22 32	1 3	11 55	1 5	4 41	2 27	16 35	0 22	5 26	1 7	23 16	3 2	19 11	18 47	19 7	17 37	5 46	
W 13	21 58	17 2	4 20	19 6	1 28	13 26	1 33	22 25	1 3	11 57	1 5	4 42	2 28	16 35	0 22	5 26	1 7	23 15	3 2	19 9	18 47	19 6	17 36	5 46	
T 14	21 49	14 9	4 48	18 33	1 23	13 0	1 31	22 19	1 3	11 58	1 5	4 42	2 28	16 36	0 22	5 25	1 6	23 15	3 3	19 7	18 46	19 5	17 36	5 46	
F 15	21 40	10 40	5 2	18 0	1 17	12 33	1 29	22 12	1 3	12 0	1 5	4 43	2 28	16 37	0 22	5 25	1 6	23 15	3 3	19 4	18 45	19 3	17 36	5 47	
S 16	21 31	6 43	5 4	17 26	1 10	12 6	1 27	22 5	1 4	12 2	1 6	4 43	2 29	16 37	0 22	5 24	1 6	23 14	3 3	19 2	18 44	19 2	17 35	5 47	
S 17	21 21	2 28	4 51	16 52	1 3	11 39	1 25	21 58	1 4	12 4	1 6	4 43	2 29	16 38	0 22	5 23	1 6	23 14	3 3	19 0	18 43	19 1	17 35	5 47	
M 18	21 11	1n57	4 25	16 17	0 56	11 12	1 22	21 51	1 4	12 6	1 6	4 44	2 29	16 38	0 22	5 23	1 6	23 14	3 3	18 59	18 43	19 0	17 35	5 47	
T 19	21 1	6 23	3 45	15 43	0 48	10 44	1 20	21 43	1 4	12 8	1 6	4 44	2 29	16 39	0 22	5 22	1 6	23 14	3 3	18 58	18 42	18 59	17 34	5 47	
W 20	20 50	10 37	2 53	15 7	0 40	10 16	1 17	21 36	1 4	12 10	1 7	4 44	2 30	16 39	0 22	5 22	1 6	23 13	3 3	18 57	18 41	18 58	17 34	5 48	
T 21	20 39	14 27	1 50	14 32	0 31	9 48	1 15	21 28	1 5	12 12	1 7	4 44	2 30	16 39	0 22	5 21	1 6	23 13	3 3	18 57	18 40	18 56	17 33	5 48	
F 22	20 28	17 38	0 40	13 57	0 22	9 20	1 12	21 20	1 5	12 14	1 7	4 44	2 30	16 40	0 22	5 20	1 6	23 13	3 3	18 57	18 39	18 55	17 33	5 48	
S 23	20 16	19 52	0s35	13 21	0 13	8 51	1 9	21 12	1 5	12 16	1 7	4 44	2 30	16 40	0 22	5 20	1 6	23 12	3 3	18 57	18 39	18 54	17 32	5 48	
S 24	20 4	20 52	1 50	12 46	0 3	8 23	1 6	21 4	1 5	12 18	1 8	4 44	2 31	16 41	0 22	5 19	1 6	23 12	3 3	18 57	18 38	18 53	17 32	5 49	
M 25	19 51	20 28	2 59	12 11	0s 7	7 54	1 3	20 56	1 5	12 21	1 8	4 44	2 31	16 41	0 22	5 19	1 6	23 12	3 3	18 56	18 37	18 52	17 31	5 49	
T 26	19 38	18 36	3 57	11 36	0 17	7 25	1 0	20 47	1 5	12 23	1 8	4 44	2 31	16 42	0 22	5 18	1 6	23 11	3 3	18 54	18 36	18 50	17 31	5 49	
W 27	19 25	15 25	4 38	11 2	0 27	6 56	0 57	20 39	1 6	12 25	1 8	4 44	2 32	16 42	0 22	5 17	1 6	23 11	3 3	18 52	18 35	18 49	17 31	5 49	
T 28	19 12	11 14	4 59	10 28	0 38	6 26	0 54	20 30	1 6	12 28	1 9	4 44	2 32	16 42	0 22	5 17	1 6	23 11	3 3	18 50	18 35	18 48	17 30	5 50	
F 29	18 58	6 25	5 0	9 54	0 49	5 57	0 51	20 21	1 6	12 30	1 9	4 44	2 32	16 43	0 22	5 16	1 6	23 11	3 3	18 47	18 34	18 47	17 30	5 50	
S 30	18 44	1 21	4 41	9 21	1 0	5 27	0 47	20 12	1 6	12 33	1 9	4 44	2 32	16 43	0 22	5 15	1 6	23 10	3 4	18 45	18 33	18 45	17 29	5 50	
S 31	18n30	3s37	4s 6	8n48	1s12	4n57	0n44	20n 3	1n 6	12s35	1s 9	4n44	2s33	16n43	0s22	5n14	1n 6	23n10	3n 4	18s44	18s32	18s44	17n28	5s51	

ASTRODIENST EPHEMERIS for the year 1938

geocentric

AUGUST 1938

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 35 47	8♌ 5'21	13♊ 15	5♉ 18	20♏ 18	5♌ 50	29♏ R48	18♏ R 3	17♏ 36	19♏ 21	29♏ 55	23♏ R43	22♏ 59	14♏ 4	6♏ 2	M 1
T 2	20 39 43	9° 2'46	26° 21	6° 13	21° 26	6° 29	29♏ 41	18♏ Y 3	17° 37	19° 23	29° 57	23♏ 41	22° 56	14° 11	6° 7	T 2
W 3	20 43 40	10° 0'12	9♏ 3	7° 5	22° 33	7° 7	29° 34	18° 2	17° 38	19° 25	29° 59	23° D40	22° 53	14° 18	6° 13	W 3
T 4	20 47 36	10° 57'38	21° 24	7° 53	23° 40	7° 46	29° 27	18° 2	17° 39	19° 27	0♏ 0	23° R40	22° 50	14° 24	6° 18	T 4
F 5	20 51 33	11° 55'05	3♏ 30	8° 38	24° 48	8° 24	29° 20	18° 2	17° 40	19° 28	0° 2	23° 40	22° 47	14° 31	6° 23	F 5
S 6	20 55 29	12° 52'33	15° 25	9° 19	25° 55	9° 3	29° 13	18° 1	17° 41	19° 30	0° 4	23° 38	22° 43	14° 38	6° 28	S 6
S 7	20 59 26	13° 50'01	27° 16	9° 57	27° 1	9° 41	29° 5	18° 0	17° 42	19° 32	0° 5	23° 34	22° 40	14° 44	6° 33	S 7
M 8	21 3 23	14° 47'31	9♏ 5	10° 30	28° 8	10° 20	28° 58	18° 0	17° 43	19° 34	0° 7	23° 28	22° 37	14° 51	6° 38	M 8
T 9	21 7 19	15° 45'01	20° 56	11° 0	29° 15	10° 58	28° 50	17° 59	17° 43	19° 36	0° 9	23° 18	22° 34	14° 58	6° 43	T 9
W10	21 11 16	16° 42'33	2♏ 52	11° 25	0♏ 21	11° 37	28° 43	17° 58	17° 44	19° 38	0° 10	23° 6	22° 31	15° 4	6° 48	W10
T 11	21 15 12	17° 40'05	14° 54	11° 46	1° 27	12° 15	28° 35	17° 57	17° 45	19° 40	0° 12	22° 53	22° 27	15° 11	6° 53	T 11
F 12	21 19 9	18° 37'38	27° 4	12° 2	2° 33	12° 53	28° 28	17° 56	17° 45	19° 42	0° 13	22° 40	22° 24	15° 18	6° 57	F 12
S 13	21 23 5	19° 35'13	9♏ 22	12° 12	3° 39	13° 32	28° 20	17° 54	17° 46	19° 44	0° 15	22° 27	22° 21	15° 25	7° 2	S 13
S 14	21 27 2	20° 32'49	21° 50	12° 18	4° 45	14° 10	28° 12	17° 53	17° 46	19° 46	0° 17	22° 16	22° 18	15° 31	7° 7	S 14
M15	21 30 58	21° 30'26	4♏ 27	12° R19	5° 50	14° 49	28° 5	17° 51	17° 47	19° 48	0° 18	22° 7	22° 15	15° 38	7° 12	M15
T 16	21 34 55	22° 28'05	17° 17	12° 14	6° 55	15° 27	27° 57	17° 50	17° 47	19° 50	0° 20	22° 1	22° 12	15° 45	7° 16	T 16
W17	21 38 52	23° 25'45	0♏ 19	12° 3	8° 1	16° 5	27° 49	17° 48	17° 48	19° 52	0° 21	21° 58	22° 8	15° 51	7° 21	W17
T 18	21 42 48	24° 23'27	13° 37	11° 47	9° 6	16° 43	27° 41	17° 46	17° 48	19° 54	0° 23	21° 57	22° 5	15° 58	7° 25	T 18
F 19	21 46 45	25° 21'10	27° 13	11° 25	10° 10	17° 22	27° 33	17° 45	17° 48	19° 56	0° 24	21° 57	22° 2	16° 5	7° 30	F 19
S 20	21 50 41	26° 18'55	11♏ 8	10° 57	11° 15	18° 0	27° 26	17° 43	17° 49	19° 58	0° 26	21° 57	21° 59	16° 11	7° 34	S 20
S 21	21 54 38	27° 16'42	25° 23	10° 24	12° 19	18° 38	27° 18	17° 41	17° 49	20° 0	0° 27	21° 55	21° 56	16° 18	7° 39	S 21
M22	21 58 34	28° 14'31	9♏ 57	9° 46	13° 23	19° 17	27° 10	17° 38	17° 49	20° 2	0° 29	21° 51	21° 53	16° 25	7° 43	M22
T 23	22 2 31	29° 12'21	24° 45	9° 4	14° 27	19° 55	27° 2	17° 36	17° 49	20° 4	0° 30	21° 44	21° 49	16° 31	7° 47	T 23
W24	22 6 27	0♏ 10'13	9♏ 41	8° 17	15° 31	20° 33	26° 54	17° 34	17° 49	20° 6	0° 32	21° 34	21° 46	16° 38	7° 52	W24
T 25	22 10 24	1° 8'06	24° 37	7° 27	16° 35	21° 11	26° 46	17° 31	17° 49	20° 8	0° 33	21° 23	21° 43	16° 45	7° 56	T 25
F 26	22 14 21	2° 6'01	9♏ 23	6° 34	17° 38	21° 50	26° 38	17° 29	17° 49	20° 11	0° 35	21° 12	21° 40	16° 52	8° 0	F 26
S 27	22 18 17	3° 3'58	23° 50	5° 39	18° 41	22° 28	26° 31	17° 26	17° 49	20° 13	0° 36	21° 2	21° 37	16° 58	8° 4	S 27
S 28	22 22 14	4° 1'55	7♏ 54	4° 44	19° 44	23° 6	26° 23	17° 24	17° 49	20° 15	0° 38	20° 54	21° 33	17° 5	8° 8	S 28
M29	22 26 10	4° 59'55	21° 30	3° 49	20° 46	23° 44	26° 15	17° 21	17° 48	20° 17	0° 39	20° 49	21° 30	17° 12	8° 12	M29
T 30	22 30 7	5° 57'55	4♏ 39	2° 56	21° 49	24° 23	26° 7	17° 18	17° 48	20° 19	0° 41	20° 46	21° 27	17° 18	8° 16	T 30
W31	22 34 3	6♏ 55'57	17♏ 23	2♏ 6	22° 51	25° 1	26° 38	17° 15	17° 48	20° 21	0° 42	20° D45	21° 24	17° 25	8° 20	W31

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	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
M 1	18n15	8s15	3s17	8n17	1s23	4n27	0n40	19n53	1n 6	12s38	1s 9	4n43	2s33	16n44	0s22	5n14	1n 6	23n10	3n 4	18s42	18s31	18s43	17n28	5s51			
T 2	18 0	12 20	2 20	7 46	1 35	3 57	0 36	19 44	1 7	12 40	1 10	4 43	2 33	16 44	0 22	5 13	1 6	23 9	3 4	18 42	18 31	18 42	17 27	5 51			
W 3	17 45	15 44	1 17	7 16	1 46	3 27	0 32	19 34	1 7	12 43	1 10	4 43	2 34	16 44	0 22	5 12	1 6	23 9	3 4	18 42	18 30	18 40	17 27	5 52			
T 4	17 29	18 19	0 12	6 47	1 58	2 57	0 29	19 25	1 7	12 46	1 10	4 42	2 34	16 45	0 22	5 12	1 6	23 9	3 4	18 42	18 29	18 39	17 26	5 52			
F 5	17 13	20 1	0n52	6 19	2 10	2 27	0 25	19 15	1 7	12 48	1 10	4 42	2 34	16 45	0 22	5 11	1 6	23 9	3 4	18 42	18 28	18 38	17 26	5 52			
S 6	16 57	20 47	1 53	5 53	2 22	1 57	0 21	19 5	1 7	12 51	1 10	4 41	2 34	16 45	0 22	5 10	1 6	23 8	3 4	18 41	18 27	18 37	17 25	5 53			
S 7	16 41	20 37	2 48	5 28	2 34	1 26	0 17	18 55	1 7	12 54	1 10	4 41	2 35	16 45	0 22	5 9	1 6	23 8	3 4	18 40	18 27	18 36	17 25	5 53			
M 8	16 24	19 33	3 36	5 4	2 46	0 56	0 12	18 44	1 7	12 56	1 11	4 40	2 35	16 45	0 22	5 9	1 6	23 8	3 4	18 39	18 26	18 34	17 24	5 53			
T 9	16 7	17 38	4 14	4 42	2 57	0 25	0 8	18 34	1 8	12 59	1 11	4 40	2 35	16 46	0 22	5 8	1 6	23 8	3 4	18 36	18 25	18 33	17 23	5 54			
W10	15 50	14 57	4 42	4 22	3 9	0s 5	0 4	18 23	1 8	13 2	1 11	4 39	2 35	16 46	0 22	5 7	1 6	23 7	3 4	18 33	18 24	18 32	17 23	5 54			
T 11	15 33	11 38	4 57	4 4	3 20	0 35	0s 1	18 13	1 8	13 5	1 11	4 38	2 36	16 46	0 22	5 6	1 6	23 7	3 5	18 30	18 23	18 30	17 22	5 54			
F 12	15 15	7 48	4 59	3 48	3 31	1 6	0 5	18 2	1 8	13 8	1 11	4 38	2 36	16 46	0 22	5 6	1 6	23 7	3 5	18 26	18 23	18 29	17 22	5 55			
S 13	14 57	3 37	4 47	3 34	3 42	1 36	0 10	17 51	1 8	13 10	1 11	4 37	2 36	16 46	0 23	5 5	1 6	23 7	3 5	18 23	18 22	18 28	17 21	5 55			
S 14	14 39	0n46	4 22	3 23	3 52	2 6	0 14	17 40	1 8	13 13	1 12	4 36	2 36	16 47	0 23	5 4	1 6	23 6	3 5	18 20	18 21	18 27	17 20	5 55			
M15	14 20	5 11	3 43	3 14	4 1	2 37	0 19	17 29	1 8	13 16	1 12	4 36	2 37	16 47	0 23	5 3	1 6	23 6	3 5	18 18	18 20	18 25	17 20	5 56			
T 16	14 2	9 26	2 52	3 8	4 10	3 7	0 24	17 18	1 8	13 19	1 12	4 35	2 37	16 47	0 23	5 2	1 6	23 6	3 5	18 17	18 19	18 24	17 19	5 56			
W17	13 43	13 20	1 52	3 4	4 18	3 37	0 29	17 7	1 9	13 22	1 12	4 34	2 37	16 47	0 23	5 2	1 6	23 6	3 5	18 16	18 19	18 23	17 18	5 57			
T 18	13 24	16 38	0 44	3 4	4 25	4 7	0 34	16 55	1 9	13 24	1 12	4 33	2 38	16 47	0 23	5 1	1 6	23 5	3 5	18 16	18 18	18 22	17 18	5 57			
F 19	13 4	19 5	0s28	3 7	4 30	4 37	0 39	16 44	1 9	13 27	1 12	4 32	2 38	16 47	0 23	5 0	1 6	23 5	3 5	18 16	18 17	18 20	17 17	5 57			
S 20	12 45	20 28	1 40	3 13	4 35	5 7	0 44	16 32	1 9	13 30	1 12	4 31	2 38	16 47	0 23	4 59	1 6	23 5	3 5	18 16	18 16	18 19	17 16	5 58			
S 21	12 25	20 35	2 47	3 22	4 38	5 37	0 49	16 20	1 9	13 33	1 12	4 30	2 38	16 47	0 23	4 58	1 6	23 5	3 5	18 15	18 15	18 18	17 16	5 58			
M22	12 5	19 20	3 45	3 35	4 40	6 7	0 54	16 8	1 9	13 36	1 12	4 29	2 38	16 47	0 23	4 58	1 6	23 4	3 6	18 14	18 14	18 16	17 15	5 59			
T 23	11 45	16 47	4 29	3 51	4 40	6 37	0 59	15 56	1 9	13 38	1 13	4 28	2 39	16 47	0 23	4 57	1 6	23 4	3 6	18 12	18 14	18 15	17 14	5 59			
W24	11 25	13 6	4 54	4 10	4 38	7 6	1 4	15 44	1 9	13 41	1 13	4 27	2 39	16 47	0 23	4 56	1 6	23 4	3 6	18 10	18 13	18 14	17 14	6 0			
T 25	11 4	8 36	5 0	4 32	4 35	7 36	1 10	15 32	1 9	13 44	1 13	4 26	2 39	16 47	0 23	4 55	1 6	23 4	3 6	18 7	18 12	18 12	17 13	6 0			
F 26	10 44	3 38	4 46	4 56	4 29	8 5	1 15	15 20	1 9	13 47	1 13	4 24	2 39	16 47	0 23	4 54	1 6	23 3	3 6	18 4	18 11	18 11	17 12	6 0			
S 27	10 23	1s26	4 14	5 23	4 22	8 34	1 21	15 7	1 10	13 50	1 13	4 23	2 40	16 47	0 23	4 53	1 6	23 3	3 6	18 1	18 10	18 10	17 12	6 1			
S 28	10 2	6 17	3 26	5 51	4 13	9 3	1 26	14 55	1 10	13 52	1 13	4 22	2 40	16 47	0 23	4 52	1 6	23 3	3 6	17 59	18 9	18 9	17 11	6 1			
M29	9 41	10 41	2 28	6 21	4 1	9 32	1 32	14 42	1 10	13 55	1 13	4 21	2 40	16 47	0 23	4 52	1 6	23 3	3 6	17 58	18 9	18 7	17 10	6 2			
T 30	9 20	14 24	1 24	6 52	3 49	10 0	1 37	14 30	1 10	13 58	1 13	4 19	2 40	16 47	0 23	4 51	1 6	23 3	3 6	17 57	18 8	18 6	17 10	6 2			
W31	8n58	17s19	0s18	7n24	3s34	10s28	1s43	14n17	1n10	14s 0	1s13	4n18	2s41	16n47	0s23	4n50	1n 6	23n 2	3n 7	17s57	18s 7	18s 5	17n 9	6s 1			

ASTRODIENST EPHEMERIS for the year 1938

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SEPTEMBER 1938

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 38 0	7 ^h 54'00	29 ^m 46	1 ^h R20	23 ^s 52	25 ^h Ω39	25 ^h R52	17 ^h R12	17 ^h R47	20 ^m 23	0 ^h Ω43	20 ^m 45	21 ^m 21	17 ^h 332	8 ^h 24	T 1
F 2	22 41 56	8 ^h 52'05	11 ^m 53	0 ^h 39	24 ^h 54	26 ^h 17	25 ^h 45	17 ^h 9	17 ^h 47	20 ^m 26	0 ^h 45	20 ^m R45	21 ^m 18	17 ^h 38	8 ^h 27	F 2
S 3	22 45 53	9 ^h 50'11	23 ^m 49	0 ^h 4	25 ^h 55	26 ^h 55	25 ^h 37	17 ^h 6	17 ^h 47	20 ^m 28	0 ^h 46	20 ^m 44	21 ^m 14	17 ^h 45	8 ^h 31	S 3
S 4	22 49 50	10 ^h 48'19	5 ^m 340	29 ^m Ω36	26 ^h 56	27 ^h 33	25 ^h 30	17 ^h 2	17 ^h 46	20 ^m 30	0 ^h 47	20 ^m 41	21 ^m 11	17 ^h 52	8 ^h 35	S 4
M 5	22 53 46	11 ^h 46'28	17 ^m 31	29 ^m 15	27 ^h 56	28 ^h 11	25 ^h 23	16 ^h 59	17 ^h 45	20 ^m 32	0 ^h 49	20 ^m 36	21 ^m 8	17 ^h 59	8 ^h 38	M 5
T 6	22 57 43	12 ^h 44'38	29 ^m 25	29 ^m 3	28 ^h 56	28 ^h 50	25 ^h 15	16 ^h 56	17 ^h 45	20 ^m 34	0 ^h 50	20 ^m 38	21 ^m 5	18 ^h 5	8 ^h 42	T 6
W 7	23 1 39	13 ^h 42'50	11 ^m 26	28 ^m D59	29 ^h 56	29 ^h 28	25 ^h 8	16 ^h 52	17 ^h 44	20 ^m 37	0 ^h 51	20 ^m 18	21 ^m 2	18 ^h 12	8 ^h 45	W 7
T 8	23 5 36	14 ^h 41'04	23 ^m 36	29 ^m 4	0 ^h 55	0 ^h 6	25 ^h 1	16 ^h 49	17 ^h 43	20 ^m 39	0 ^h 53	20 ^m 7	20 ^m 59	18 ^h 19	8 ^h 49	T 8
F 9	23 9 32	15 ^h 39'19	5 ^m 357	29 ^m 18	1 ^h 55	0 ^h 44	24 ^h 54	16 ^h 45	17 ^h 43	20 ^m 41	0 ^h 54	19 ^m 55	20 ^m 55	18 ^h 25	8 ^h 52	F 9
S 10	23 13 29	16 ^h 37'36	18 ^m 30	29 ^m 40	2 ^h 53	1 ^h 22	24 ^h 48	16 ^h 41	17 ^h 42	20 ^m 43	0 ^h 55	19 ^m 44	20 ^m 52	18 ^h 32	8 ^h 55	S 10
S 11	23 17 25	17 ^h 35'55	1 ^h 15	0 ^h 12	3 ^h 51	2 ^h 0	24 ^h 41	16 ^h 38	17 ^h 41	20 ^m 46	0 ^h 56	19 ^m 34	20 ^m 49	18 ^h 39	8 ^h 58	S 11
M12	23 21 22	18 ^h 34'16	14 ^m 11	0 ^h 52	4 ^h 49	2 ^h 38	24 ^h 34	16 ^h 34	17 ^h 40	20 ^m 48	0 ^h 58	19 ^m 27	20 ^m 46	18 ^h 45	9 ^h 1	M12
T 13	23 25 18	19 ^h 32'38	27 ^m 18	1 ^h 41	5 ^h 47	3 ^h 16	24 ^h 28	16 ^h 30	17 ^h 39	20 ^m 50	0 ^h 59	19 ^m 22	20 ^m 43	18 ^h 52	9 ^h 5	T 13
W14	23 29 15	20 ^h 31'03	10 ^m 36	2 ^h 37	6 ^h 44	3 ^h 54	24 ^h 22	16 ^h 26	17 ^h 38	20 ^m 52	1 ^h 0	19 ^m 20	20 ^m 39	18 ^h 59	9 ^h 7	W14
T 15	23 33 12	21 ^h 29'30	24 ^m 6	3 ^h 40	7 ^h 40	4 ^h 32	24 ^h 15	16 ^h 22	17 ^h 37	20 ^m 54	1 ^h 1	19 ^m D20	20 ^m 36	19 ^h 6	9 ^h 10	T 15
F 16	23 37 8	22 ^h 27'59	7 ^m 48	4 ^h 51	8 ^h 37	5 ^h 10	24 ^h 9	16 ^h 18	17 ^h 36	20 ^m 57	1 ^h 2	19 ^m 21	20 ^m 33	19 ^h 12	9 ^h 13	F 16
S 17	23 41 5	23 ^h 26'30	21 ^m 42	6 ^h 7	9 ^h 32	5 ^h 48	24 ^h 3	16 ^h 14	17 ^h 35	20 ^m 59	1 ^h 3	19 ^m R21	20 ^m 30	19 ^h 19	9 ^h 16	S 17
S 18	23 45 1	24 ^h 25'04	5 ^m 49	7 ^h 29	10 ^h 27	6 ^h 26	23 ^h 58	16 ^h 9	17 ^h 34	21 ^m 1	1 ^h 5	19 ^m 21	20 ^m 27	19 ^h 26	9 ^h 19	S 18
M19	23 48 58	25 ^h 23'40	20 ^m 7	8 ^h 57	11 ^h 22	7 ^h 4	23 ^h 52	16 ^h 5	17 ^h 33	21 ^m 3	1 ^h 6	19 ^m 18	20 ^m 24	19 ^h 32	9 ^h 21	M19
T 20	23 52 54	26 ^h 22'17	4 ^m Ω34	10 ^h 28	12 ^h 16	7 ^h 42	23 ^h 46	16 ^h 1	17 ^h 31	21 ^m 6	1 ^h 7	19 ^m 14	20 ^m 20	19 ^h 39	9 ^h 24	T 20
W21	23 56 51	27 ^h 20'57	19 ^m 6	12 ^h 3	13 ^h 10	8 ^h 20	23 ^h 41	15 ^h 57	17 ^h 30	21 ^m 8	1 ^h 8	19 ^m 7	20 ^m 17	19 ^h 46	9 ^h 26	W21
T 22	0 0 47	28 ^h 19'40	3 ^m 37	13 ^h 42	14 ^h 3	8 ^h 58	23 ^h 36	15 ^h 52	17 ^h 29	21 ^m 10	1 ^h 9	18 ^h 59	20 ^m 14	19 ^h 52	9 ^h 29	T 22
F 23	0 4 44	29 ^h 18'24	18 ^m 0	15 ^h 23	14 ^h 55	9 ^h 36	23 ^h 31	15 ^h 48	17 ^h 27	21 ^m 12	1 ^h 10	18 ^h 51	20 ^m 11	19 ^h 59	9 ^h 31	F 23
S 24	0 8 41	0 ^h 17'10	2 ^m 9	17 ^h 7	15 ^h 47	10 ^h 14	23 ^h 26	15 ^h 43	17 ^h 26	21 ^m 14	1 ^h 11	18 ^h 44	20 ^m 8	20 ^h 6	9 ^h 33	S 24
S 25	0 12 37	1 ^h 15'58	16 ^m 0	18 ^h 52	16 ^h 38	10 ^h 52	23 ^h 21	15 ^h 39	17 ^h 24	21 ^m 17	1 ^h 12	18 ^h 38	20 ^m 4	20 ^h 13	9 ^h 35	S 25
M26	0 16 34	2 ^h 14'48	29 ^m 29	20 ^h 38	17 ^h 29	11 ^h 30	23 ^h 17	15 ^h 34	17 ^h 23	21 ^m 19	1 ^h 13	18 ^h 34	20 ^m 1	20 ^h 19	9 ^h 37	M26
T 27	0 20 30	3 ^h 13'40	12 ^m 34	22 ^h 26	18 ^h 19	12 ^h 8	23 ^h 12	15 ^h 30	17 ^h 21	21 ^m 21	1 ^h 14	18 ^h D32	19 ^h 58	20 ^h 26	9 ^h 39	T 27
W28	0 24 27	4 ^h 12'34	25 ^m 18	24 ^h 14	19 ^h 8	12 ^h 46	23 ^h 8	15 ^h 25	17 ^h 20	21 ^m 23	1 ^h 14	18 ^h 32	19 ^h 55	20 ^h 33	9 ^h 41	W28
T 29	0 28 23	5 ^h 11'30	7 ^m 42	26 ^h 3	19 ^h 56	13 ^h 24	23 ^h 4	15 ^h 21	17 ^h 18	21 ^m 25	1 ^h 15	18 ^h 33	19 ^h 52	20 ^h 39	9 ^h 43	T 29
F 30	0 32 20	6 ^h 10'27	19 ^m 51	27 ^m 52	20 ^m 44	14 ^h 17	23 ^h 30	15 ^h 16	17 ^h 16	21 ^m 28	1 ^h 16	18 ^h 35	19 ^m 49	20 ^h 46	9 ^h 45	F 30

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	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	8n37	19s20	0n48	7n55	3s18	10s57	1s48	14n 4	1n10	14s 3	1s13	4n17	2s41	16n47	0s23	4n49	1n 6	23n 2	3n 7	17s57	18s 6	18s 3	17n 8	6s 3	6s 3
F 2	8 15	20 24	1 50	8 25	3 1	11 25	1 54	13 51	1 10	14 5	1 13	4 15	2 41	16 46	0 23	4 48	1 6	23 2	3 7	17 57	18 5	18 2	17 7	6 4	6 4
S 3	7 53	20 32	2 46	8 54	2 44	11 52	2 0	13 38	1 10	14 8	1 13	4 14	2 41	16 46	0 23	4 47	1 6	23 2	3 7	17 56	18 4	18 1	17 7	6 4	6 4
S 4	7 31	19 45	3 35	9 21	2 25	12 20	2 5	13 25	1 10	14 10	1 13	4 13	2 41	16 46	0 23	4 46	1 6	23 2	3 7	17 56	18 4	17 59	17 6	6 5	6 5
M 5	7 9	18 6	4 14	9 46	2 6	12 47	2 11	13 12	1 10	14 13	1 13	4 11	2 42	16 46	0 23	4 46	1 6	23 1	3 7	17 54	18 3	17 58	17 5	6 5	6 5
T 6	6 47	15 40	4 43	10 8	1 47	13 14	2 17	12 59	1 10	14 15	1 13	4 10	2 42	16 46	0 23	4 45	1 6	23 1	3 7	17 52	18 2	17 57	17 5	6 6	6 6
W 7	6 24	12 34	4 59	10 28	1 28	13 41	2 23	12 46	1 10	14 18	1 13	4 8	2 42	16 46	0 23	4 44	1 6	23 1	3 7	17 50	18 1	17 55	17 4	6 6	6 6
T 8	6 2	8 54	5 2	10 44	1 9	14 7	2 29	12 32	1 10	14 20	1 13	4 7	2 42	16 45	0 23	4 43	1 6	23 1	3 8	17 47	18 0	17 54	17 3	6 7	6 7
F 9	5 39	4 49	4 51	10 56	0 50	14 33	2 35	12 19	1 10	14 22	1 13	4 5	2 42	16 45	0 23	4 42	1 6	23 1	3 8	17 43	17 59	17 52	17 2	6 7	6 7
S 10	5 17	0 28	4 26	11 5	0 33	14 59	2 40	12 5	1 11	14 25	1 13	4 4	2 42	16 45	0 23	4 41	1 6	23 1	3 8	17 40	17 59	17 51	17 2	6 8	6 8
S 11	4 54	3n58	3 47	11 10	0 16	15 25	2 46	11 52	1 11	14 27	1 13	4 2	2 43	16 45	0 23	4 40	1 6	23 1	3 8	17 38	17 58	17 50	17 1	6 8	6 8
M12	4 31	8 18	2 56	11 11	0n 1	15 50	2 52	11 38	1 11	14 29	1 13	4 0	2 43	16 44	0 23	4 40	1 6	23 0	3 8	17 36	17 57	17 48	17 0	6 9	6 9
T 13	4 8	12 18	1 55	11 8	0 16	16 15	2 58	11 24	1 11	14 31	1 13	3 59	2 43	16 44	0 23	4 39	1 6	23 0	3 8	17 35	17 56	17 47	16 59	6 10	6 10
W14	3 46	15 45	0 47	11 1	0 30	16 40	3 4	11 11	1 11	14 33	1 13	3 57	2 43	16 44	0 23	4 38	1 6	23 0	3 8	17 34	17 55	17 46	16 59	6 10	6 10
T 15	3 22	18 23	0s26	10 50	0 43	17 4	3 10	10 57	1 11	14 35	1 13	3 55	2 43	16 44	0 23	4 37	1 6	23 0	3 8	17 34	17 54	17 44	16 58	6 11	6 11
F 16	2 59	20 1	1 37	10 35	0 55	17 28	3 16	10 43	1 11	14 37	1 13	3 54	2 43	16 43	0 23	4 36	1 6	23 0	3 9	17 34	17 54	17 43	16 57	6 11	6 11
S 17	2 36	20 27	2 45	10 17	1 6	17 51	3 22	10 29	1 11	14 39	1 13	3 52	2 44	16 43	0 23	4 35	1 6	23 0	3 9	17 34	17 53	17 42	16 56	6 12	6 12
S 18	2 13	19 37	3 43	9 55	1 15	18 14	3 27	10 15	1 11	14 41	1 13	3 50	2 44	16 43	0 23	4 34	1 6	23 0	3 9	17 34	17 52	17 40	16 56	6 12	6 12
M19	1 50	17 31	4 28	9 31	1 24	18 37	3 33	10 1	1 11	14 43	1 13	3 49	2 44	16 42	0 23	4 33	1 6	22 59	3 9	17 33	17 51	17 39	16 55	6 13	6 13
T 20	1 27	14 19	4 57	9 3	1 31	19 0	3 39	9 47	1 11	14 45	1 13	3 47	2 44	16 42	0 23	4 33	1 6	22 59	3 9	17 32	17 50	17 37	16 54	6 13	6 13
W21	1 3	10 15	5 6	8 32	1 37	19 22	3 45	9 32	1 11	14 47	1 13	3 45	2 44	16 42	0 23	4 32	1 6	22 59	3 9	17 30	17 49	17 36	16 53	6 14	6 14
T 22	0 40	5 34	4 57	7 59	1 42	19 43	3 51	9 18	1 11	14 48	1 13	3 43	2 44	16 41	0 23	4 31	1 6	22 59	3 9	17 28	17 49	17 35	16 53	6 15	6 15
F 23	0 17	0 38	4 28	7 23	1 46	20 5	3 56	9 4	1 11	14 50	1 13	3 41	2 44	16 41	0 23	4 30	1 6	22 59	3 9	17 26	17 48	17 33	16 52	6 15	6 15
S 24	0s 7	4s16	3 43	6 46	1 49	20 26	4 2	8 49	1 11	14 51	1 13	3 40	2 44	16 40	0 23	4 29	1 6	22 59	3 10	17 24	17 47	17 32	16 51	6 16	6 16
S 25	0 30	8 51	2 46	6 6	1 51	20 46	4 8	8 35	1 11	14 53	1 13	3 38	2 44	16 40	0 23	4 28	1 6	22 59	3 10	17 22	17 46	17 30	16 51	6 16	6 16
M26	0 54	12 52	1 41	5 25	1 52	21 6	4 13	8 21	1 11	14 54	1 13	3 36	2 45	16 40	0 23	4 27	1 6	22 59	3 10	17 21	17 45	17 29	16 50	6 17	6 17
T 27	1 17	16 8	0 32	4 43	1 52	21 25	4 19	8 6	1 11	14 56	1 12	3 34	2 45	16 39	0 23	4 27	1 6	22 59	3 10	17 21	17 44	17 28	16 49	6 18	6 18
W28	1 40	18 30	0n37	4 0	1 52	21 45	4 24	7 52	1 11	14 57	1 12	3 32	2 45	16 39	0 23	4 26	1 6	22 59	3 10	17 21	17 43	17 26	16 48	6 18	6 18
T 29	2 4	19 55	1 42	3 16	1 51	22 3	4 30	7 37	1 11	14 58	1 12	3 31	2 45	16 38	0 23	4 25	1 6	22 59	3 10	17 21	17 43	17 25	16 48	6 19	6 19
F 30	2s27	20s22	2n42	2n31	1n49	22s21	4s35	7n22	1n11	14s59	1s12	3n29	2s45	16n38	0s23	4n24	1n 6	22n59	3n10	17s22	17s42	17s23	16n47	6s19	6s19

ASTRODIENST EPHEMERIS for the year 1938
geocentric

OCTOBER 1938

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 36 16	7♌ 9'27	1♌49	29♏40	21♏30	14♏40	22°R57	15°R11	17°R15	21♏30	1♌17	18°R36	19♏45	20♌53	9♌47	S 1
S 2	0 40 13	8° 8'28	13°42	1♌29	22°16	15°18	22°53	15° 7	17♌13	21°32	1°18	18♏36	19°42	21° 0	9°48	S 2
M 3	0 44 10	9° 7'30	25°33	3°17	23° 1	15°56	22°50	15° 2	17°11	21°34	1°19	18°34	19°39	21° 6	9°50	M 3
T 4	0 48 6	10° 6'35	7♌29	5° 5	23°46	16°34	22°47	14°57	17° 9	21°36	1°19	18°31	19°36	21°13	9°51	T 4
W 5	0 52 3	11° 5'41	19°34	6°53	24°29	17°12	22°44	14°53	17° 8	21°38	1°20	18°26	19°33	21°20	9°53	W 5
T 6	0 55 59	12° 4'49	1♌50	8°40	25°11	17°50	22°41	14°48	17° 6	21°40	1°21	18°21	19°30	21°26	9°54	T 6
F 7	0 59 56	13° 3'59	14°20	10°26	25°52	18°28	22°39	14°43	17° 4	21°43	1°22	18°14	19°26	21°33	9°55	F 7
S 8	1 3 52	14° 3'11	27° 6	12°11	26°32	19° 6	22°36	14°39	17° 2	21°45	1°22	18° 8	19°23	21°40	9°56	S 8
S 9	1 7 49	15° 2'25	10♏ 8	13°56	27°11	19°44	22°34	14°34	17° 0	21°47	1°23	18° 3	19°20	21°46	9°57	S 9
M10	1 11 45	16° 1'41	23°26	15°40	27°49	20°22	22°32	14°29	16°58	21°49	1°23	18° 0	19°17	21°53	9°58	M10
T 11	1 15 42	17° 0'58	6♌57	17°24	28°25	21° 0	22°30	14°24	16°56	21°51	1°24	17°58	19°14	22° 0	9°59	T 11
W12	1 19 38	18° 0'18	20°40	19° 7	29° 0	21°38	22°29	14°20	16°54	21°53	1°25	17°D57	19°10	22° 7	10° 0	W12
T 13	1 23 35	18°59'41	4♏33	20°49	29°34	22°15	22°27	14°15	16°52	21°55	1°25	17°58	19° 7	22°13	10° 0	T 13
F 14	1 27 32	19°59'05	18°33	22°30	0♌7	22°53	22°26	14°10	16°50	21°57	1°26	17°59	19° 4	22°20	10° 1	F 14
S 15	1 31 28	20°58'32	2♌38	24°10	0°38	23°31	22°25	14° 6	16°47	21°59	1°26	18° 1	19° 1	22°27	10° 1	S 15
S 16	1 35 25	21°58'02	16°48	25°50	1° 8	24° 9	22°25	14° 1	16°45	22° 1	1°27	18°R 2	18°58	22°33	10° 2	S 16
M17	1 39 21	22°57'33	0♌59	27°29	1°36	24°47	22°24	13°56	16°43	22° 3	1°27	18° 2	18°55	22°40	10° 2	M17
T 18	1 43 18	23°57'07	15°11	29° 8	2° 3	25°25	22°24	13°52	16°41	22° 5	1°28	18° 0	18°51	22°47	10° 3	T 18
W19	1 47 14	24°56'43	29°20	0♏46	2°27	26° 3	22°D24	13°47	16°39	22° 7	1°28	17°58	18°48	22°54	10° 3	W19
T 20	1 51 11	25°56'22	13♏23	2°23	2°51	26°41	22°24	13°42	16°36	22° 9	1°28	17°55	18°45	23° 0	10°R 3	T 20
F 21	1 55 7	26°56'02	27°17	4° 0	3°12	27°19	22°24	13°38	16°34	22°11	1°29	17°52	18°42	23° 7	10° 3	F 21
S 22	1 59 4	27°55'45	11♌ 0	5°36	3°32	27°56	22°24	13°33	16°32	22°13	1°29	17°49	18°39	23°14	10° 3	S 22
S 23	2 3 1	28°55'30	24°28	7°11	3°50	28°34	22°25	13°29	16°29	22°15	1°29	17°47	18°36	23°20	10° 3	S 23
M24	2 6 57	29°55'17	7♏40	8°46	4° 5	29°12	22°26	13°24	16°27	22°16	1°29	17°46	18°32	23°27	10° 2	M24
T 25	2 10 54	0♏55'05	20°34	10°21	4°19	29°50	22°27	13°20	16°25	22°18	1°30	17°D45	18°29	23°34	10° 2	T 25
W26	2 14 50	1°54'56	3♌11	11°54	4°31	0♌28	22°28	13°16	16°22	22°20	1°30	17°46	18°26	23°40	10° 1	W26
T 27	2 18 47	2°54'49	15°32	13°28	4°41	1° 6	22°30	13°11	16°20	22°22	1°30	17°47	18°23	23°47	10° 1	T 27
F 28	2 22 43	3°54'43	27°40	15° 1	4°48	1°44	22°31	13° 7	16°17	22°24	1°30	17°48	18°20	23°54	10° 0	F 28
S 29	2 26 40	4°54'39	9♌39	16°33	4°53	2°21	22°33	13° 3	16°15	22°25	1°30	17°50	18°16	24° 1	10° 0	S 29
S 30	2 30 36	5°54'37	21°32	18° 5	4°56	2°59	22°35	12°59	16°13	22°27	1°31	17°51	18°13	24° 7	9°59	S 30
M31	2 34 33	6♏54'36	3♌24	19♏36	4°R56	3♌37	22°38	12°Y55	16♌10	22♏29	1♌31	17°R51	18♏10	24♌14	9♌58	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
S 1	2s50	19s53	3n33	1n46	1n47	22s39	4s40	7n 8	1n11	15s 1	1s12	3n27	2s45	16n37	0s23	4n23	1n 6	22n59	3n11	17s22	17s41	17s22	16n46	6s20	
S 2	3 14	18 31	4 15	1 0	1 44	22 56	4 46	6 53	1 11	15 2	1 12	3 25	2 45	16 37	0 23	4 22	1 6	22 59	3 11	17 22	17 40	17 21	16 45	6 21	
M 3	3 37	16 21	4 46	0 14	1 40	23 13	4 51	6 38	1 11	15 3	1 12	3 23	2 45	16 36	0 23	4 22	1 6	22 58	3 11	17 21	17 39	17 19	16 45	6 21	
T 4	4 0	13 29	5 5	0s33	1 37	23 29	4 56	6 23	1 11	15 3	1 12	3 21	2 45	16 36	0 23	4 21	1 6	22 58	3 11	17 21	17 38	17 18	16 44	6 22	
W 5	4 23	10 2	5 11	1 19	1 32	23 45	5 1	6 9	1 11	15 4	1 12	3 20	2 45	16 35	0 23	4 20	1 6	22 58	3 11	17 19	17 37	17 16	16 43	6 22	
T 6	4 47	6 7	5 2	2 5	1 28	24 0	5 5	5 54	1 11	15 5	1 12	3 18	2 45	16 35	0 23	4 19	1 6	22 58	3 11	17 18	17 37	17 15	16 43	6 23	
F 7	5 10	1 52	4 39	2 52	1 23	24 15	5 10	5 39	1 11	15 6	1 11	3 16	2 45	16 34	0 23	4 18	1 6	22 58	3 11	17 16	17 36	17 13	16 42	6 24	
S 8	5 33	2n33	4 2	3 38	1 18	24 29	5 15	5 24	1 11	15 6	1 11	3 14	2 45	16 34	0 23	4 17	1 6	22 58	3 12	17 14	17 35	17 12	16 41	6 24	
S 9	5 56	6 57	3 12	4 23	1 12	24 42	5 19	5 9	1 11	15 7	1 11	3 12	2 45	16 33	0 23	4 17	1 6	22 58	3 12	17 13	17 34	17 11	16 41	6 25	
M10	6 18	11 7	2 10	5 9	1 7	24 55	5 23	4 54	1 11	15 8	1 11	3 10	2 45	16 32	0 23	4 16	1 6	22 58	3 12	17 12	17 33	17 9	16 40	6 25	
T 11	6 41	14 47	1 0	5 54	1 1	25 8	5 27	4 39	1 11	15 8	1 11	3 9	2 45	16 32	0 23	4 15	1 6	22 58	3 12	17 11	17 32	17 8	16 39	6 26	
W12	7 4	17 41	0s15	6 39	0 55	25 20	5 31	4 24	1 11	15 8	1 11	3 7	2 45	16 31	0 23	4 14	1 6	22 58	3 12	17 11	17 31	17 6	16 38	6 27	
T 13	7 26	19 35	1 30	7 23	0 48	25 31	5 35	4 9	1 11	15 9	1 11	3 5	2 45	16 31	0 23	4 14	1 6	22 58	3 12	17 11	17 30	17 5	16 38	6 27	
F 14	7 49	20 18	2 40	8 6	0 42	25 42	5 39	3 54	1 11	15 9	1 11	3 3	2 45	16 30	0 23	4 13	1 6	22 58	3 12	17 12	17 30	17 3	16 37	6 28	
S 15	8 11	19 44	3 41	8 50	0 36	25 52	5 42	3 39	1 11	15 9	1 11	3 1	2 45	16 29	0 23	4 12	1 7	22 59	3 13	17 12	17 29	17 2	16 36	6 29	
S 16	8 34	17 56	4 29	9 32	0 29	26 1	5 45	3 24	1 11	15 9	1 10	3 0	2 45	16 29	0 23	4 11	1 7	22 59	3 13	17 12	17 28	17 0	16 36	6 29	
M17	8 56	15 3	5 1	10 14	0 22	26 10	5 48	3 9	1 10	15 9	1 10	2 58	2 45	16 28	0 23	4 10	1 7	22 59	3 13	17 12	17 27	16 59	16 35	6 30	
T 18	9 18	11 17	5 14	10 56	0 16	26 18	5 51	2 54	1 10	15 9	1 10	2 56	2 45	16 28	0 23	4 10	1 7	22 59	3 13	17 12	17 26	16 58	16 35	6 30	
W19	9 40	6 54	5 8	11 36	0 9	26 26	5 53	2 39	1 10	15 9	1 10	2 54	2 45	16 27	0 23	4 9	1 7	22 59	3 13	17 11	17 25	16 56	16 34	6 31	
T 20	10 1	2 10	4 44	12 16	0 2	26 33	5 56	2 24	1 10	15 9	1 10	2 53	2 45	16 26	0 23	4 8	1 7	22 59	3 13	17 11	17 24	16 55	16 33	6 32	
F 21	10 23	2s39	4 3	12 56	0s 5	26 39	5 57	2 9	1 10	15 9	1 10	2 51	2 45	16 26	0 23	4 7	1 7	22 59	3 14	17 10	17 23	16 53	16 33	6 32	
S 22	10 44	7 15	3 9	13 34	0 12	26 44	5 59	1 54	1 10	15 9	1 10	2 49	2 45	16 25	0 23	4 7	1 7	22 59	3 14	17 9	17 23	16 52	16 32	6 33	
S 23	11 6	11 25	2 5	14 12	0 18	26 49	6 0	1 38	1 10	15 8	1 9	2 48	2 45	16 24	0 23	4 6	1 7	22 59	3 14	17 8	17 22	16 50	16 31	6 34	
M24	11 27	14 57	0 55	14 50	0 25	26 53	6 1	1 23	1 10	15 8	1 9	2 46	2 45	16 24	0 23	4 5	1 7	22 59	3 14	17 8	17 21	16 49	16 31	6 34	
T 25	11 48	17 39	0n16	15 26	0 32	26 56	6 2	1 8	1 10	15 7	1 9	2 44	2 44	16 23	0 23	4 5	1 7	22 59	3 14	17 8	17 20	16 47	16 30	6 35	
W26	12 9	19 25	1 24	16 1	0 39	26 58	6 2	0 53	1 10	15 7	1 9	2 43	2 44	16 22	0 23	4 4	1 7	22 59	3 14	17 8	17 19	16 46	16 30	6 35	
T 27	12 29	20 13	2 28	16 36	0 45	27 0	6 1	0 38	1 10	15 6	1 9	2 41	2 44	16 22	0 23	4 3	1 7	22 59	3 14	17 8	17 18	16 44	16 29	6 36	
F 28	12 50	20 2	3 23	17 10	0 52	27 0	6 1	0 23	1 10	15 6	1 9	2 40	2 44	16 21	0 23	4 3	1 7	23 0	3 15	17 9	17 17	16 43	16 29	6 37	
S 29	13 10	18 57	4 9	17 43	0 58	27 0	5 59	0 8	1 10	15 5	1 9	2 38	2 44	16 20	0 23	4 2	1 7	23 0	3 15	17 9	17 16	16 41	16 28	6 37	
S 30	13 30	17 3	4 44	18 15	1 5	26 59	5 58	0s 7	1 10	15 4	1 8	2 37	2 44	16 20	0 23	4 1	1 7	23 0	3 15	17 9	17 16	16 40	16 27	6 38	
M31	13s49	14s25	5n 7	18s47	1s11	26s57	5s56	0s23	1n 9	15s 3	1s 8	2n35	2s44	16n19	0s23	4n 1	1n 7	23n 0	3n15	17s 9	17s15	16s38	16n27	6s38	

ASTRODIENST EPHEMERIS for the year 1938

geocentric

NOVEMBER 1938

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 38 30	7 ^h 15 ^m 54 ^s 37	15 ^h 19 ^m 19 ^s	21 ^h 11 ^m 7 ^s	4 ^h 54 ^m 54 ^s	4 ^h 54 ^m 54 ^s	22 ^h 40 ^m 40 ^s	12 ^h 50 ^m 50 ^s	16 ^h 58 ^m 8 ^s	22 ^h 31 ^m 31 ^s	1 ^h 03 ^m 31 ^s	17 ^h 51 ^m 51 ^s	18 ^h 11 ^m 7 ^s	24 ^h 21 ^m 21 ^s	9 ^h 57 ^m 57 ^s	T 1
W 2	2 42 26	8 ^h 54 ^m 39 ^s	27 ^h 23 ^m 23 ^s	22 ^h 37 ^m 37 ^s	4 ^h 57 ^m 50 ^s	4 ^h 53 ^m 53 ^s	22 ^h 43 ^m 43 ^s	12 ^h 54 ^m 46 ^s	16 ^h 58 ^m 5 ^s	22 ^h 32 ^m 32 ^s	1 ^h 31 ^m 31 ^s	17 ^h 50 ^m 50 ^s	18 ^h 4 ^m 4 ^s	24 ^h 27 ^m 27 ^s	9 ^h 56 ^m 56 ^s	W 2
T 3	2 46 23	9 ^h 54 ^m 43 ^s	9 ^h 40 ^m 40 ^s	24 ^h 7 ^m 7 ^s	4 ^h 43 ^m 43 ^s	5 ^h 31 ^m 31 ^s	22 ^h 46 ^m 46 ^s	12 ^h 43 ^m 43 ^s	16 ^h 3 ^m 3 ^s	22 ^h 34 ^m 34 ^s	1 ^h 31 ^m 31 ^s	17 ^h 50 ^m 50 ^s	18 ^h 1 ^m 1 ^s	24 ^h 34 ^m 34 ^s	9 ^h 55 ^m 55 ^s	T 3
F 4	2 50 19	10 ^h 54 ^m 49 ^s	22 ^h 13 ^m 13 ^s	25 ^h 36 ^m 36 ^s	4 ^h 34 ^m 34 ^s	6 ^h 8 ^m 8 ^s	22 ^h 49 ^m 49 ^s	12 ^h 39 ^m 39 ^s	16 ^h 0 ^m 0 ^s	22 ^h 35 ^m 35 ^s	1 ^h 31 ^m 31 ^s	17 ^h 49 ^m 49 ^s	17 ^h 57 ^m 57 ^s	24 ^h 41 ^m 41 ^s	9 ^h 54 ^m 54 ^s	F 4
S 5	2 54 16	11 ^h 54 ^m 56 ^s	5 ^h 5 ^m 5 ^s	27 ^h 5 ^m 5 ^s	4 ^h 22 ^m 22 ^s	6 ^h 46 ^m 46 ^s	22 ^h 52 ^m 52 ^s	12 ^h 35 ^m 35 ^s	15 ^h 58 ^m 58 ^s	22 ^h 37 ^m 37 ^s	1 ^h 31 ^m 31 ^s	17 ^h 48 ^m 48 ^s	17 ^h 54 ^m 54 ^s	24 ^h 48 ^m 48 ^s	9 ^h 52 ^m 52 ^s	S 5
S 6	2 58 12	12 ^h 55 ^m 05 ^s	18 ^h 19 ^m 19 ^s	28 ^h 34 ^m 34 ^s	4 ^h 8 ^m 8 ^s	7 ^h 24 ^m 24 ^s	22 ^h 55 ^m 55 ^s	12 ^h 31 ^m 31 ^s	15 ^h 55 ^m 55 ^s	22 ^h 39 ^m 39 ^s	1 ^h 31 ^m 31 ^s	17 ^h 47 ^m 47 ^s	17 ^h 51 ^m 51 ^s	24 ^h 54 ^m 54 ^s	9 ^h 51 ^m 51 ^s	S 6
M 7	3 2 9	13 ^h 55 ^m 16 ^s	1 ^h 54 ^m 54 ^s	0 ^h 2 ^m 2 ^s	3 ^h 51 ^m 51 ^s	8 ^h 2 ^m 2 ^s	22 ^h 59 ^m 59 ^s	12 ^h 27 ^m 27 ^s	15 ^h 53 ^m 53 ^s	22 ^h 40 ^m 40 ^s	1 ^h 30 ^m 30 ^s	17 ^h 47 ^m 47 ^s	17 ^h 48 ^m 48 ^s	25 ^h 1 ^m 1 ^s	9 ^h 50 ^m 50 ^s	M 7
T 8	3 6 5	14 ^h 55 ^m 28 ^s	15 ^h 48 ^m 48 ^s	1 ^h 29 ^m 29 ^s	3 ^h 32 ^m 32 ^s	8 ^h 39 ^m 39 ^s	23 ^h 3 ^m 3 ^s	12 ^h 24 ^m 24 ^s	15 ^h 50 ^m 50 ^s	22 ^h 42 ^m 42 ^s	1 ^h 30 ^m 30 ^s	17 ^h 47 ^m 47 ^s	17 ^h 45 ^m 45 ^s	25 ^h 8 ^m 8 ^s	9 ^h 48 ^m 48 ^s	T 8
W 9	3 10 2	15 ^h 55 ^m 42 ^s	29 ^h 58 ^m 58 ^s	2 ^h 56 ^m 56 ^s	3 ^h 11 ^m 11 ^s	9 ^h 17 ^m 17 ^s	23 ^h 7 ^m 7 ^s	12 ^h 20 ^m 20 ^s	15 ^h 48 ^m 48 ^s	22 ^h 43 ^m 43 ^s	1 ^h 30 ^m 30 ^s	17 ^h 47 ^m 47 ^s	17 ^h 41 ^m 41 ^s	25 ^h 14 ^m 14 ^s	9 ^h 47 ^m 47 ^s	W 9
T 10	3 13 59	16 ^h 55 ^m 58 ^s	14 ^h 20 ^m 20 ^s	4 ^h 22 ^m 22 ^s	2 ^h 48 ^m 48 ^s	9 ^h 55 ^m 55 ^s	23 ^h 11 ^m 11 ^s	12 ^h 17 ^m 17 ^s	15 ^h 45 ^m 45 ^s	22 ^h 45 ^m 45 ^s	1 ^h 30 ^m 30 ^s	17 ^h 47 ^m 47 ^s	17 ^h 38 ^m 38 ^s	25 ^h 21 ^m 21 ^s	9 ^h 45 ^m 45 ^s	T 10
F 11	3 17 55	17 ^h 56 ^m 16 ^s	28 ^h 48 ^m 48 ^s	5 ^h 48 ^m 48 ^s	2 ^h 22 ^m 22 ^s	10 ^h 33 ^m 33 ^s	23 ^h 15 ^m 15 ^s	12 ^h 13 ^m 13 ^s	15 ^h 43 ^m 43 ^s	22 ^h 46 ^m 46 ^s	1 ^h 30 ^m 30 ^s	17 ^h 47 ^m 47 ^s	17 ^h 35 ^m 35 ^s	25 ^h 28 ^m 28 ^s	9 ^h 43 ^m 43 ^s	F 11
S 12	3 21 52	18 ^h 56 ^m 36 ^s	13 ^h 17 ^m 17 ^s	7 ^h 13 ^m 13 ^s	1 ^h 55 ^m 55 ^s	11 ^h 11 ^m 11 ^s	23 ^h 20 ^m 20 ^s	12 ^h 10 ^m 10 ^s	15 ^h 40 ^m 40 ^s	22 ^h 48 ^m 48 ^s	1 ^h 30 ^m 30 ^s	17 ^h 47 ^m 47 ^s	17 ^h 32 ^m 32 ^s	25 ^h 35 ^m 35 ^s	9 ^h 41 ^m 41 ^s	S 12
S 13	3 25 48	19 ^h 56 ^m 58 ^s	27 ^h 43 ^m 43 ^s	8 ^h 37 ^m 37 ^s	1 ^h 26 ^m 26 ^s	11 ^h 48 ^m 48 ^s	23 ^h 25 ^m 25 ^s	12 ^h 7 ^m 7 ^s	15 ^h 38 ^m 38 ^s	22 ^h 49 ^m 49 ^s	1 ^h 29 ^m 29 ^s	17 ^h 47 ^m 47 ^s	17 ^h 29 ^m 29 ^s	25 ^h 41 ^m 41 ^s	9 ^h 39 ^m 39 ^s	S 13
M14	3 29 45	20 ^h 57 ^m 22 ^s	12 ^h 0 ^m 0 ^s	10 ^h 0 ^m 0 ^s	0 ^h 55 ^m 55 ^s	12 ^h 26 ^m 26 ^s	23 ^h 30 ^m 30 ^s	12 ^h 4 ^m 4 ^s	15 ^h 36 ^m 36 ^s	22 ^h 50 ^m 50 ^s	1 ^h 29 ^m 29 ^s	17 ^h 46 ^m 46 ^s	17 ^h 26 ^m 26 ^s	25 ^h 48 ^m 48 ^s	9 ^h 37 ^m 37 ^s	M14
T 15	3 33 41	21 ^h 57 ^m 47 ^s	26 ^h 8 ^m 8 ^s	11 ^h 23 ^m 23 ^s	0 ^h 22 ^m 22 ^s	13 ^h 4 ^m 4 ^s	23 ^h 35 ^m 35 ^s	12 ^h 1 ^m 1 ^s	15 ^h 33 ^m 33 ^s	22 ^h 52 ^m 52 ^s	1 ^h 29 ^m 29 ^s	17 ^h 46 ^m 46 ^s	17 ^h 22 ^m 22 ^s	25 ^h 55 ^m 55 ^s	9 ^h 35 ^m 35 ^s	T 15
W16	3 37 38	22 ^h 58 ^m 15 ^s	10 ^h 3 ^m 3 ^s	12 ^h 44 ^m 44 ^s	29 ^h 49 ^m 49 ^s	13 ^h 42 ^m 42 ^s	23 ^h 40 ^m 40 ^s	11 ^h 58 ^m 58 ^s	15 ^h 31 ^m 31 ^s	22 ^h 53 ^m 53 ^s	1 ^h 28 ^m 28 ^s	17 ^h 47 ^m 47 ^s	17 ^h 19 ^m 19 ^s	26 ^h 1 ^m 1 ^s	9 ^h 33 ^m 33 ^s	W16
T 17	3 41 34	23 ^h 58 ^m 44 ^s	23 ^h 46 ^m 46 ^s	14 ^h 4 ^m 4 ^s	29 ^h 14 ^m 14 ^s	14 ^h 19 ^m 19 ^s	23 ^h 45 ^m 45 ^s	11 ^h 55 ^m 55 ^s	15 ^h 28 ^m 28 ^s	22 ^h 54 ^m 54 ^s	1 ^h 28 ^m 28 ^s	17 ^h 47 ^m 47 ^s	17 ^h 16 ^m 16 ^s	26 ^h 8 ^m 8 ^s	9 ^h 31 ^m 31 ^s	T 17
F 18	3 45 31	24 ^h 59 ^m 15 ^s	7 ^h 15 ^m 15 ^s	15 ^h 24 ^m 24 ^s	28 ^h 39 ^m 39 ^s	14 ^h 57 ^m 57 ^s	23 ^h 51 ^m 51 ^s	11 ^h 52 ^m 52 ^s	15 ^h 26 ^m 26 ^s	22 ^h 56 ^m 56 ^s	1 ^h 28 ^m 28 ^s	17 ^h 48 ^m 48 ^s	17 ^h 13 ^m 13 ^s	26 ^h 15 ^m 15 ^s	9 ^h 29 ^m 29 ^s	F 18
S 19	3 49 28	25 ^h 59 ^m 48 ^s	20 ^h 31 ^m 31 ^s	16 ^h 41 ^m 41 ^s	28 ^h 3 ^m 3 ^s	15 ^h 35 ^m 35 ^s	23 ^h 57 ^m 57 ^s	11 ^h 49 ^m 49 ^s	15 ^h 23 ^m 23 ^s	22 ^h 57 ^m 57 ^s	1 ^h 27 ^m 27 ^s	17 ^h 48 ^m 48 ^s	17 ^h 10 ^m 10 ^s	26 ^h 22 ^m 22 ^s	9 ^h 26 ^m 26 ^s	S 19
S 20	3 53 24	27 ^h 0 ^m 23 ^s	3 ^h 13 ^m 13 ^s	17 ^h 58 ^m 58 ^s	27 ^h 27 ^m 27 ^s	16 ^h 13 ^m 13 ^s	24 ^h 3 ^m 3 ^s	11 ^h 47 ^m 47 ^s	15 ^h 21 ^m 21 ^s	22 ^h 58 ^m 58 ^s	1 ^h 27 ^m 27 ^s	17 ^h 49 ^m 49 ^s	17 ^h 7 ^m 7 ^s	26 ^h 28 ^m 28 ^s	9 ^h 24 ^m 24 ^s	S 20
M21	3 57 21	28 ^h 0 ^m 59 ^s	16 ^h 23 ^m 23 ^s	19 ^h 12 ^m 12 ^s	26 ^h 50 ^m 50 ^s	16 ^h 50 ^m 50 ^s	24 ^h 9 ^m 9 ^s	11 ^h 44 ^m 44 ^s	15 ^h 18 ^m 18 ^s	22 ^h 59 ^m 59 ^s	1 ^h 26 ^m 26 ^s	17 ^h 49 ^m 49 ^s	17 ^h 3 ^m 3 ^s	26 ^h 35 ^m 35 ^s	9 ^h 21 ^m 21 ^s	M21
T 22	4 1 17	29 ^h 1 ^m 37 ^s	28 ^h 59 ^m 59 ^s	20 ^h 24 ^m 24 ^s	26 ^h 14 ^m 14 ^s	17 ^h 28 ^m 28 ^s	24 ^h 15 ^m 15 ^s	11 ^h 42 ^m 42 ^s	15 ^h 16 ^m 16 ^s	23 ^h 0 ^m 0 ^s	1 ^h 26 ^m 26 ^s	17 ^h 49 ^m 49 ^s	17 ^h 0 ^m 0 ^s	26 ^h 42 ^m 42 ^s	9 ^h 19 ^m 19 ^s	T 22
W23	4 5 14	0 ^h 2 ^m 16 ^s	11 ^h 2 ^m 16 ^s	21 ^h 35 ^m 35 ^s	25 ^h 38 ^m 38 ^s	18 ^h 6 ^m 6 ^s	24 ^h 22 ^m 22 ^s	11 ^h 39 ^m 39 ^s	15 ^h 14 ^m 14 ^s	23 ^h 2 ^m 2 ^s	1 ^h 25 ^m 25 ^s	17 ^h 48 ^m 48 ^s	16 ^h 57 ^m 57 ^s	26 ^h 48 ^m 48 ^s	9 ^h 16 ^m 16 ^s	W23
T 24	4 9 10	1 ^h 2 ^m 57 ^s	23 ^h 38 ^m 38 ^s	22 ^h 42 ^m 42 ^s	25 ^h 3 ^m 3 ^s	18 ^h 44 ^m 44 ^s	24 ^h 28 ^m 28 ^s	11 ^h 37 ^m 37 ^s	15 ^h 11 ^m 11 ^s	23 ^h 3 ^m 3 ^s	1 ^h 25 ^m 25 ^s	17 ^h 47 ^m 47 ^s	16 ^h 54 ^m 54 ^s	26 ^h 55 ^m 55 ^s	9 ^h 13 ^m 13 ^s	T 24
F 25	4 13 7	2 ^h 3 ^m 39 ^s	5 ^h 3 ^m 42 ^s	23 ^h 47 ^m 47 ^s	24 ^h 29 ^m 29 ^s	19 ^h 21 ^m 21 ^s	24 ^h 35 ^m 35 ^s	11 ^h 35 ^m 35 ^s	15 ^h 9 ^m 9 ^s	23 ^h 4 ^m 4 ^s	1 ^h 24 ^m 24 ^s	17 ^h 45 ^m 45 ^s	16 ^h 51 ^m 51 ^s	27 ^h 2 ^m 2 ^s	9 ^h 10 ^m 10 ^s	F 25
S 26	4 17 3	3 ^h 4 ^m 22 ^s	17 ^h 39 ^m 39 ^s	24 ^h 48 ^m 48 ^s	23 ^h 56 ^m 56 ^s	19 ^h 59 ^m 59 ^s	24 ^h 42 ^m 42 ^s	11 ^h 33 ^m 33 ^s	15 ^h 7 ^m 7 ^s	23 ^h 5 ^m 5 ^s	1 ^h 24 ^m 24 ^s	17 ^h 42 ^m 42 ^s	16 ^h 47 ^m 47 ^s	27 ^h 9 ^m 9 ^s	9 ^h 8 ^m 8 ^s	S 26
S 27	4 21 0	4 ^h 5 ^m 07 ^s	29 ^h 31 ^m 31 ^s	25 ^h 45 ^m 45 ^s	23 ^h 24 ^m 24 ^s	20 ^h 37 ^m 37 ^s	24 ^h 49 ^m 49 ^s	11 ^h 31 ^m 31 ^s	15 ^h 4 ^m 4 ^s	23 ^h 6 ^m 6 ^s	1 ^h 23 ^m 23 ^s	17 ^h 40 ^m 40 ^s	16 ^h 44 ^m 44 ^s	27 ^h 15 ^m 15 ^s	9 ^h 5 ^m 5 ^s	S 27
M28	4 24 57	5 ^h 5 ^m 52 ^s	11 ^h 22 ^m 22 ^s	26 ^h 38 ^m 38 ^s	22 ^h 53 ^m 53 ^s	21 ^h 14 ^m 14 ^s	24 ^h 57 ^m 57 ^s	11 ^h 29 ^m 29 ^s	15 ^h 2 ^m 2 ^s	23 ^h 7 ^m 7 ^s	1 ^h 22 ^m 22 ^s	17 ^h 38 ^m 38 ^s	16 ^h 41 ^m 41 ^s	27 ^h 22 ^m 22 ^s	9 ^h 2 ^m 2 ^s	M28
T 29	4 28 53	6 ^h 6 ^m 39														

