



Astrodienst Ephemeris Tables for the year 1865

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 1865

geocentric

JANUARY 1865

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 42 38	10°39'39	22°8	25°R 0	20°56	1°R41	15°26	29°6	26°R54	5°Y37	11°R25	7°R 2	6°M 4	20°M25	11°K 8	S 1
M 2	6 46 34	11°40'50	6°K36	24°33	22° 8	1°I37	15°38	29°10	26°I51	5°37	11°B24	6°M55	6° 1	20°32	11°10	M 2
T 3	6 50 31	12°42'01	20°58	23°54	23°20	1°35	15°51	29°13	26°49	5°38	11°24	6°51	5°58	20°39	11°12	T 3
W 4	6 54 27	13°43'11	5°Y11	23° 3	24°31	1°33	16° 4	29°17	26°46	5°38	11°23	6°49	5°55	20°45	11°15	W 4
T 5	6 58 24	14°44'21	19°13	22° 3	25°43	1°D33	16°17	29°20	26°44	5°39	11°23	6°D49	5°51	20°52	11°17	T 5
F 6	7 2 20	15°45'30	3°B 3	20°54	26°54	1°33	16°29	29°24	26°41	5°40	11°23	6°R49	5°48	20°59	11°19	F 6
S 7	7 6 17	16°46'39	16°42	19°39	28° 6	1°33	16°42	29°27	26°39	5°40	11°22	6°49	5°45	21° 6	11°22	S 7
S 8	7 10 13	17°47'48	0°I11	18°20	29°17	1°35	16°54	29°30	26°37	5°41	11°22	6°47	5°42	21°12	11°25	S 8
M 9	7 14 10	18°48'56	13°30	17° 0	0°K28	1°37	17° 7	29°33	26°34	5°42	11°21	6°42	5°39	21°19	11°27	M 9
T 10	7 18 7	19°50'03	26°38	15°41	1°39	1°40	17°19	29°36	26°32	5°43	11°21	6°34	5°36	21°26	11°30	T 10
W11	7 22 3	20°51'10	9°B36	14°26	2°50	1°44	17°32	29°39	26°30	5°44	11°21	6°23	5°32	21°32	11°33	W11
T 12	7 26 0	21°52'17	22°21	13°17	4° 1	1°49	17°44	29°42	26°28	5°45	11°20	6°10	5°29	21°39	11°35	T 12
F 13	7 29 56	22°53'23	4°L55	12°14	5°12	1°54	17°56	29°45	26°25	5°46	11°20	5°56	5°26	21°46	11°38	F 13
S 14	7 33 53	23°54'29	17°16	11°20	6°22	2° 0	18° 9	29°47	26°23	5°46	11°20	5°43	5°23	21°52	11°41	S 14
S 15	7 37 49	24°55'34	29°25	10°36	7°33	2° 6	18°21	29°50	26°21	5°47	11°20	5°30	5°20	21°59	11°44	S 15
M16	7 41 46	25°56'39	11°M24	10° 0	8°43	2°13	18°33	29°52	26°19	5°48	11°20	5°20	5°16	22° 6	11°47	M16
T 17	7 45 43	26°57'44	23°16	9°34	9°53	2°21	18°45	29°55	26°17	5°50	11°19	5°13	5°13	22°12	11°50	T 17
W18	7 49 39	27°58'48	5°L 4	9°18	11° 3	2°30	18°57	29°57	26°15	5°51	11°19	5° 9	5°10	22°19	11°53	W18
T 19	7 53 36	28°59'52	16°54	9°D10	12°13	2°39	19° 9	29°59	26°12	5°52	11°19	5° 7	5° 7	22°26	11°56	T 19
F 20	7 57 32	0°55	28°49	9°11	13°23	2°49	19°21	0°M 1	26°10	5°53	11°19	5° 6	5° 4	22°32	11°59	F 20
S 21	8 1 29	1° 1'58	10°L56	9°20	14°32	2°59	19°32	0° 3	26° 8	5°54	11°19	5° 6	5° 1	22°39	12° 2	S 21
S 22	8 5 25	2° 3'00	23°21	9°36	15°42	3°10	19°44	0° 5	26° 6	5°55	11°19	5° 6	4°57	22°46	12° 5	S 22
M23	8 9 22	3° 4'02	6°K 8	9°58	16°51	3°22	19°56	0° 7	26° 5	5°56	11°19	5° 3	4°54	22°52	12° 8	M23
T 24	8 13 18	4° 5'04	19°21	10°27	18° 0	3°34	20° 7	0° 8	26° 3	5°58	11°19	4°57	4°51	22°59	12°11	T 24
W25	8 17 15	5° 6'05	3°Z 2	11° 1	19° 9	3°46	20°19	0°10	26° 1	5°59	11°D19	4°49	4°48	23° 6	12°14	W25
T 26	8 21 12	6° 7'05	17°10	11°40	20°18	4° 0	20°30	0°11	25°59	6° 0	11°19	4°39	4°45	23°13	12°18	T 26
F 27	8 25 8	7° 8'04	1°K42	12°24	21°27	4°13	20°41	0°12	25°57	6° 2	11°19	4°27	4°42	23°19	12°21	F 27
S 28	8 29 5	8° 9'02	16°30	13°12	22°35	4°28	20°52	0°14	25°56	6° 3	11°19	4°14	4°38	23°26	12°24	S 28
S 29	8 33 1	9° 9'59	1°K26	14° 4	23°44	4°42	21° 4	0°15	25°54	6° 4	11°19	4° 3	4°35	23°33	12°27	S 29
M30	8 36 58	10°10'55	16°21	14°59	24°52	4°58	21°15	0°16	25°52	6° 6	11°19	3°55	4°32	23°39	12°31	M30
T 31	8 40 54	11°11'50	1°Y 6	15°57	26°K 0	5°I14	21°26	0°M17	25°I51	6°Y 7	11°B19	3°M49	4°M29	23°M46	12°K34	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23s 2	9s31	4n53	20s22	0n47	16s13	1s48	23n 1	2n34	22s 8	0n32	8s54	2n25	23n37	0n12	0n51
M 2	22 56	5 0	4 24	20 8	1 7	15 49	1 46	23 1	2 34	22 9	0 32	8 55	2 26	23 37	0 12	0 52
T 3	22 51	0 14	3 39	19 56	1 26	15 23	1 44	23 0	2 34	22 11	0 32	8 56	2 26	23 37	0 12	0 52
W 4	22 45	4n30	2 40	19 45	1 45	14 58	1 42	23 0	2 34	22 12	0 32	8 57	2 26	23 37	0 12	0 52
T 5	22 38	8 57	1 32	19 37	2 4	14 32	1 40	23 0	2 35	22 13	0 32	8 58	2 26	23 37	0 12	0 53
F 6	22 31	12 51	0 20	19 30	2 21	14 5	1 38	23 1	2 35	22 15	0 32	8 59	2 27	23 37	0 12	0 53
S 7	22 24	16 0	0s52	19 25	2 37	13 39	1 36	23 1	2 35	22 16	0 32	9 0	2 27	23 37	0 12	0 53
S 8	22 16	18 14	2 1	19 22	2 51	13 12	1 34	23 1	2 35	22 17	0 32	9 1	2 27	23 37	0 12	0 54
M 9	22 8	19 26	3 1	19 21	3 3	12 44	1 31	23 2	2 35	22 18	0 32	9 1	2 27	23 37	0 12	0 54
T 10	21 59	19 33	3 52	19 21	3 12	12 17	1 29	23 2	2 35	22 20	0 32	9 2	2 28	23 37	0 12	0 54
W11	21 50	18 38	4 29	19 23	3 19	11 49	1 26	23 3	2 35	22 21	0 31	9 3	2 28	23 37	0 12	0 55
T 12	21 41	16 48	4 52	19 26	3 23	11 20	1 24	23 4	2 35	22 22	0 31	9 4	2 28	23 37	0 12	0 55
F 13	21 31	14 11	5 0	19 30	3 25	10 52	1 21	23 5	2 35	22 23	0 31	9 5	2 28	23 36	0 12	0 55
S 14	21 20	10 59	4 55	19 35	3 24	10 23	1 18	23 6	2 35	22 24	0 31	9 5	2 29	23 36	0 12	0 56
S 15	21 10	7 23	4 35	19 41	3 22	9 54	1 15	23 7	2 35	22 25	0 31	9 6	2 29	23 36	0 12	0 56
M16	20 58	3 32	4 4	19 47	3 18	9 25	1 12	23 9	2 35	22 26	0 31	9 6	2 29	23 36	0 12	0 57
T 17	20 47	0s25	3 22	19 55	3 12	8 56	1 9	23 10	2 34	22 28	0 31	9 7	2 29	23 36	0 12	0 57
W18	20 35	4 20	2 32	20 3	3 5	8 26	1 5	23 12	2 34	22 29	0 31	9 8	2 30	23 36	0 12	0 58
T 19	20 22	8 6	1 35	20 11	2 57	7 56	1 2	23 13	2 34	22 30	0 31	9 8	2 30	23 36	0 12	0 58
F 20	20 10	11 35	0 33	20 20	2 49	7 26	0 59	23 15	2 34	22 31	0 31	9 8	2 30	23 36	0 12	0 59
S 21	19 56	14 38	0n31	20 29	2 39	6 56	0 55	23 17	2 34	22 31	0 31	9 9	2 30	23 36	0 12	0 59
S 22	19 43	17 5	1 35	20 37	2 30	6 26	0 51	23 19	2 33	22 32	0 31	9 9	2 31	23 36	0 12	1 0
M23	19 29	18 47	2 36	20 46	2 19	5 56	0 48	23 21	2 33	22 33	0 31	9 10	2 31	23 36	0 12	1 0
T 24	19 15	19 31	3 31	20 54	2 9	5 25	0 44	23 23	2 33	22 34	0 31	9 10	2 31	23 36	0 12	1 1
W25	19 0	19 9	4 16	21 2	1 59	4 54	0 40	23 25	2 32	22 35	0 31	9 10	2 31	23 36	0 12	1 1
T 26	18 45	17 37	4 47	21 9	1 48	4 24	0 36	23 27	2 32	22 36	0 31	9 10	2 32	23 36	0 12	1 2
F 27	18 30	14 55	5 0	21 16	1 37	3 53	0 32	23 29	2 32	22 37	0 31	9 11	2 32	23 36	0 12	1 2
S 28	18 14	11 14	4 54	21 22	1 27	3 22	0 28	23 31	2 31	22 38	0 31	9 11	2 32	23 36	0 12	1 3
S 29	17 58	6 48	4 27	21 27	1 16	2 51	0 23	23 34	2 31	22 38	0 31	9 11	2 33	23 36	0 12	1 4
M30	17 42	1 58	3 43	21 31	1 6	2 20	0 19	23 36	2 30	22 39	0 31	9 11	2 33	23 36	0 12	1 4
T 31	17s26	2n56	2n43	21s35	0n55	1s49	0s14	23n39	2n30	22s40	0n31	9s11	2n33	23n36	0n12	1n 5

Julian Day Number = 2402237.5, Delta T = 8.22 sec
 Ecliptic obliquity = 23°27'17", Nutation = 0°00'11", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°51'18", Lahiri = 21°58'19"

ASTRODIENST EPHEMERIS for the year 1865

geocentric

FEBRUARY 1865

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 44 51	12 ²⁸ 12'43	15 ⁵ 36	16 ³ 58	27 ¹ 7	5 ¹¹ 30	21 ¹ 36	0 ¹¹ 17	25 ¹ R49	6 ¹ 9	11 ¹ 819	3 ¹ R46	4 ¹ M26	23 ¹ M53	12 ¹ K38	W 1
T 2	8 48 47	13 ¹ 13'35	29 ¹ 47	18 ¹ 2	28 ¹ 15	5 ¹ 47	21 ¹ 47	0 ¹ 18	25 ¹ II47	6 ¹ 10	11 ¹ 19	3 ¹ D45	4 ¹ 22	23 ¹ 59	12 ¹ 41	T 2
F 3	8 52 44	14 ¹ 14'26	13 ¹ 38	19 ¹ 8	29 ¹ 22	6 ¹ 4	21 ¹ 58	0 ¹ 18	25 ¹ 46	6 ¹ 12	11 ¹ 20	3 ¹ R45	4 ¹ 19	24 ¹ 6	12 ¹ 44	F 3
S 4	8 56 41	15 ¹ 15'15	27 ¹ 11	20 ¹ 16	0 ¹ Y29	6 ¹ 21	22 ¹ 8	0 ¹ 19	25 ¹ 45	6 ¹ 13	11 ¹ 20	3 ¹ M44	4 ¹ 16	24 ¹ 13	12 ¹ 48	S 4
S 5	9 0 37	16 ¹ 16'02	10 ¹ II27	21 ¹ 26	1 ¹ 36	6 ¹ 39	22 ¹ 19	0 ¹ 19	25 ¹ 43	6 ¹ 15	11 ¹ 20	3 ¹ 42	4 ¹ 13	24 ¹ 19	12 ¹ 51	S 5
M 6	9 4 34	17 ¹ 16'48	23 ¹ 28	22 ¹ 38	2 ¹ 43	6 ¹ 58	22 ¹ 29	0 ¹ 20	25 ¹ 42	6 ¹ 17	11 ¹ 20	3 ¹ 38	4 ¹ 10	24 ¹ 26	12 ¹ 55	M 6
T 7	9 8 30	18 ¹ 17'33	6 ¹ 17	23 ¹ 52	3 ¹ 49	7 ¹ 17	22 ¹ 40	0 ¹ 20	25 ¹ 41	6 ¹ 18	11 ¹ 21	3 ¹ 30	4 ¹ 7	24 ¹ 33	12 ¹ 58	T 7
W 8	9 12 27	19 ¹ 18'16	18 ¹ 55	25 ¹ 7	4 ¹ 55	7 ¹ 36	22 ¹ 50	0 ¹ R20	25 ¹ 39	6 ¹ 20	11 ¹ 21	3 ¹ 20	4 ¹ 3	24 ¹ 39	13 ¹ 2	W 8
T 9	9 16 23	20 ¹ 18'58	1 ¹ 22	26 ¹ 24	6 ¹ 1	7 ¹ 56	23 ¹ 0	0 ¹ 20	25 ¹ 38	6 ¹ 22	11 ¹ 21	3 ¹ 7	4 ¹ 0	24 ¹ 46	13 ¹ 6	T 9
F 10	9 20 20	21 ¹ 19'38	13 ¹ 40	27 ¹ 43	7 ¹ 7	8 ¹ 16	23 ¹ 10	0 ¹ 19	25 ¹ 37	6 ¹ 23	11 ¹ 22	2 ¹ 54	3 ¹ 57	24 ¹ 53	13 ¹ 9	F 10
S 11	9 24 16	22 ¹ 20'16	25 ¹ 50	29 ¹ 3	8 ¹ 12	8 ¹ 36	23 ¹ 20	0 ¹ 19	25 ¹ 36	6 ¹ 25	11 ¹ 22	2 ¹ 40	3 ¹ 54	24 ¹ 59	13 ¹ 13	S 11
S 12	9 28 13	23 ¹ 20'53	7 ¹ M51	0 ¹ 24	9 ¹ 17	8 ¹ 57	23 ¹ 30	0 ¹ 19	25 ¹ 35	6 ¹ 27	11 ¹ 22	2 ¹ 28	3 ¹ 51	25 ¹ 6	13 ¹ 16	S 12
M13	9 32 10	24 ¹ 21'29	19 ¹ 45	1 ¹ 46	10 ¹ 22	9 ¹ 18	23 ¹ 39	0 ¹ 18	25 ¹ 34	6 ¹ 29	11 ¹ 23	2 ¹ 18	3 ¹ 48	25 ¹ 13	13 ¹ 20	M13
T 14	9 36 6	25 ¹ 22'04	1 ¹ 25	3 ¹ 10	11 ¹ 27	9 ¹ 40	23 ¹ 49	0 ¹ 18	25 ¹ 33	6 ¹ 30	11 ¹ 23	2 ¹ 11	3 ¹ 44	25 ¹ 19	13 ¹ 24	T 14
W15	9 40 3	26 ¹ 22'37	13 ¹ 23	4 ¹ 34	12 ¹ 31	10 ¹ 1	23 ¹ 58	0 ¹ 17	25 ¹ 32	6 ¹ 32	11 ¹ 24	2 ¹ 6	3 ¹ 41	25 ¹ 26	13 ¹ 27	W15
T 16	9 43 59	27 ¹ 23'08	25 ¹ 12	6 ¹ 0	13 ¹ 35	10 ¹ 23	24 ¹ 8	0 ¹ 16	25 ¹ 31	6 ¹ 34	11 ¹ 24	2 ¹ 5	3 ¹ 38	25 ¹ 33	13 ¹ 31	T 16
F 17	9 47 56	28 ¹ 23'39	7 ¹ M6	7 ¹ 27	14 ¹ 38	10 ¹ 46	24 ¹ 17	0 ¹ 15	25 ¹ 30	6 ¹ 36	11 ¹ 25	2 ¹ D4	3 ¹ 35	25 ¹ 39	13 ¹ 35	F 17
S 18	9 51 52	29 ¹ 24'08	19 ¹ 12	8 ¹ 55	15 ¹ 41	11 ¹ 9	24 ¹ 26	0 ¹ 14	25 ¹ 30	6 ¹ 38	11 ¹ 25	2 ¹ 5	3 ¹ 32	25 ¹ 46	13 ¹ 39	S 18
S 19	9 55 49	0 ¹ K24'36	1 ¹ 23	10 ¹ 24	16 ¹ 44	11 ¹ 32	24 ¹ 35	0 ¹ 13	25 ¹ 29	6 ¹ 40	11 ¹ 26	2 ¹ R5	3 ¹ 28	25 ¹ 53	13 ¹ 42	S 19
M20	9 59 45	1 ¹ 25'02	14 ¹ 15	11 ¹ 54	17 ¹ 47	11 ¹ 55	24 ¹ 44	0 ¹ 12	25 ¹ 28	6 ¹ 42	11 ¹ 26	2 ¹ 5	3 ¹ 25	25 ¹ 59	13 ¹ 46	M20
T 21	10 3 42	2 ¹ 25'27	27 ¹ 23	13 ¹ 25	18 ¹ 49	12 ¹ 19	24 ¹ 53	0 ¹ 11	25 ¹ 28	6 ¹ 44	11 ¹ 27	2 ¹ 2	3 ¹ 22	26 ¹ 6	13 ¹ 50	T 21
W22	10 7 38	3 ¹ 25'51	11 ¹ 3	14 ¹ 57	19 ¹ 51	12 ¹ 43	25 ¹ 1	0 ¹ 9	25 ¹ 27	6 ¹ 46	11 ¹ 27	1 ¹ 56	3 ¹ 19	26 ¹ 13	13 ¹ 54	W22
T 23	10 11 35	4 ¹ 26'14	25 ¹ 6	16 ¹ 30	20 ¹ 52	13 ¹ 7	25 ¹ 10	0 ¹ 8	25 ¹ 27	6 ¹ 48	11 ¹ 28	1 ¹ 49	3 ¹ 16	26 ¹ 19	13 ¹ 57	T 23
F 24	10 15 32	5 ¹ 26'34	9 ¹ 24	18 ¹ 5	21 ¹ 53	13 ¹ 31	25 ¹ 18	0 ¹ 6	25 ¹ 26	6 ¹ 50	11 ¹ 28	1 ¹ 41	3 ¹ 13	26 ¹ 26	14 ¹ 1	F 24
S 25	10 19 28	6 ¹ 26'54	24 ¹ 37	19 ¹ 40	22 ¹ 54	13 ¹ 56	25 ¹ 26	0 ¹ 4	25 ¹ 26	6 ¹ 52	11 ¹ 29	1 ¹ 31	3 ¹ 9	26 ¹ 33	14 ¹ 5	S 25
S 26	10 23 25	7 ¹ 27'11	9 ¹ K48	21 ¹ 16	23 ¹ 54	14 ¹ 21	25 ¹ 35	0 ¹ 3	25 ¹ 25	6 ¹ 54	11 ¹ 30	1 ¹ 23	3 ¹ 6	26 ¹ 39	14 ¹ 9	S 26
M27	10 27 21	8 ¹ 27'27	25 ¹ 1	22 ¹ 53	24 ¹ 54	14 ¹ 46	25 ¹ 43	0 ¹ 1	25 ¹ 25	6 ¹ 56	11 ¹ 30	1 ¹ 17	3 ¹ 3	26 ¹ 46	14 ¹ 13	M27
T 28	10 31 18	9 ¹ K27'40	10 ¹ Y7	24 ¹ 31	25 ¹ Y53	15 ¹ II12	25 ¹ 50	29 ¹ 25	25 ¹ II25	6 ¹ Y58	11 ¹ 31	1 ¹ M13	3 ¹ M0	26 ¹ M53	14 ¹ K16	T 28

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
W 1	17s 9	7n36	1n34	21s38	0n45	1s18	0s10	23n41	2n30	22s41	0n31	9s11	2n33	23n35	0n12	1n 5	1s28	0n14	15s44	12s47	13s 0	0s39	2s30	4n41			
T 2	16 52	11 44	0 21	21 39	0 35	0 47	0 5	23 44	2 29	22 41	0 31	9 11	2 34	23 35	0 12	1 6	1 28	0 14	15 44	12 46	12 59	0 41	2 28	4 41			
F 3	16 34	15 7	0s52	21 40	0 26	0 16	0 1	23 46	2 29	22 42	0 31	9 11	2 34	23 35	0 12	1 7	1 28	0 15	15 44	12 46	12 58	0 43	2 27	4 41			
S 4	16 16	17 35	2 1	21 39	0 16	0n16	0n 4	23 49	2 28	22 43	0 31	9 11	2 34	23 35	0 12	1 7	1 28	0 15	15 43	12 46	12 57	0 45	2 26	4 41			
S 5	15 58	19 2	3 1	21 38	0 7	0 47	0 9	23 52	2 28	22 43	0 31	9 11	2 34	23 35	0 12	1 8	1 28	0 16	15 43	12 46	12 56	0 47	2 25	4 41			
M 6	15 40	19 27	3 51	21 35	0s 2	1 18	0 14	23 55	2 27	22 44	0 31	9 11	2 35	23 35	0 12	1 9	1 28	0 16	15 43	12 44	12 55	0 49	2 24	4 40			
T 7	15 21	18 50	4 28	21 31	0 11	1 49	0 19	23 57	2 27	22 44	0 31	9 11	2 35	23 35	0 12	1 9	1 28	0 16	15 42	12 41	12 54	0 51	2 23	4 40			
W 8	15 3	17 18	4 52	21 26	0 19	2 20	0 24	24 0	2 26	22 45	0 31	9 10	2 35	23 35	0 12	1 10	1 28	0 17	15 42	12 38	12 53	0 53	2 21	4 40			
T 9	14 43	14 58	5 1	21 20	0 28	2 50	0 29	24 3	2 26	22 46	0 31	9 10	2 35	23 35	0 12	1 11	1 28	0 17	15 42	12 34	12 52	0 55	2 20	4 40			
F 10	14 24	12 0	4 56	21 13	0 36	3 21	0 34	24 6	2 25	22 46	0 31	9 10	2 36	23 35	0 12	1 11	1 28	0 18	15 41	12 29	12 51	0 57	2 19	4 40			
S 11	14 5	8 34	4 37	21 4	0 43	3 52	0 40	24 8	2 25	22 47	0 31	9 9	2 36	23 35	0 12	1 12	1 28	0 18	15 41	12 24	12 50	0 59	2 18	4 40			
S 12	13 45	4 49	4 7	20 54	0 51	4 22	0 45	24 11	2 25	22 47	0 31	9 9	2 36	23 35	0 12	1 13	1 28	0 19	15 41	12 20	12 48	1 1	2 16	4 39			
M13	13 25	0 55	3 25	20 43	0 58	4 53	0 51	24 14	2 24	22 48	0 31	9 9	2 36	23 35	0 12	1 14	1 28	0 19	15 40	12 17	12 47	1 3	2 15	4 39			
T 14	13 4	3s 0	2 35	20 31	1 5	5 23	0 56	24 17	2 24	22 48	0 31	9 8	2 37	23 35	0 12	1 14	1 28	0 19	15 40	12 14	12 46	1 5	2 14	4 39			
W15	12 44	6 47	1 38	20 17	1 11	5 53	1 2	24 19	2 23	22 49	0 31	9 8	2 37	23 35	0 12	1 15	1 28	0 20	15 40	12 13	12 45	1 7	2 13	4 39			
T 16	12 23	10 19	0 37	20 2	1 17	6 24	1 7	24 22	2 22	22 49	0 31	9 7	2 37	23 35	0 12	1 16	1 28	0 20	15 39	12 12	12 44	1 9	2 11	4 39			
F 17	12 2	13 28	0n27	19 46	1 23	6 53	1 13	24 25	2 22	22 49	0 31	9 7	2 37	23 35	0 12	1 17	1 28	0 21	15 39	12 12	12 43	1 11	2 10	4 39			
S 18	11 41	16 5	1 30	19 28	1 29	7 23	1 19	24 28	2 21	22 50	0 30	9 6	2 38	23 35	0 12	1 17	1 28	0 21	15 39	12 12	12 42	1 13	2 9	4 39			
S 19	11 20	18 1	2 31	19 9	1 34	7 53	1 24	24 30	2 21	22 50	0 30	9 5	2 38	23 35	0 12	1 18	1 28	0 22	15 38	12 12	12 41	1 15	2 7	4 39			
M20	10 59	19 7	3 26	18 49	1 39	8 22	1 30	24 33	2 20	22 51	0 30	9 5	2 38	23 35	0 12	1 19	1 28	0 22	15 38	12 12	12 40	1 17	2 6	4 38			
T 21	10 37	19 14	4 12	18 28	1 44	8 51	1 36	24 36	2 20	22 51	0 30	9 4	2 38	23 35	0 12	1 20	1 28	0 23	15 38	12 11	12 39	1 19	2 5	4 38			
W22	10 15	18 15	4 46	18 5	1 48	9 20	1 42	24 38	2 19	22 51	0 30	9 3	2 39	23 35	0 12	1 20	1 28	0 23	15 37	12 10	12 38	1 21	2 3	4 38			
T 23	9 53	16 9	5 3	17 41	1 52	9 49	1 48	24 41	2 19	22 52	0 30	9 3	2 39	23 35	0 12	1 21	1 28	0 24	15 37	12 7	12 37	1 23	2 2	4 38			
F 24	9 31	12 58	5 3	17 15	1 56	10 17	1 54	24 43	2 18	22 52	0 30	9 2	2 39	23 35	0 12	1 22	1 28	0 24	15 37	12 4	12 35	1 25	2 1	4 38			
S 25	9 9	8 54	4 41	16 48	1 59	10 46	2 0	24 46	2 18	22 52	0 30	9 1	2 39	23 35	0 12	1 23	1 28	0 25	15 36	12 1	12 34	1 27	1 59	4 38			
S 26	8 47	4 12	4 0	16 20	2 2	11 14	2 6	24 48	2 17	22 52	0 30	9 0	2 40	23 35	0 12	1 24	1 28	0 25	15 36	11 58	12 33	1 29	1 58	4 38			
M27	8 24	0n48	3 2	15 51	2 4	11 41	2 12	24 51	2 17	22 53	0 30	8 59	2 40	23 35	0 12	1 25	1 28	0 26	15 36	11 56	12 32	1 31	1 57	4 38			
T 28	8s 2	5n42	1n51	15s20	2s 6	12n 9	2n18	24n53	2n16	22s53	0n30	8s58	2n40	23n35	0n12	1n25	1s28	0n26	15s35	11s54	12s31	1s33	1s55	4n38			

ASTRODIENST EPHEMERIS for the year 1865
geocentric

MARCH 1865

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 35 14	10 ^h 27'52"	24 ^h 56'	26 ^h 11'	26 ^h 52'	15 ^h 37'	25 ^h 58'	29 ^h 56'	25 ^h 25'	7 ^h 0'	11 ^h 32'	1 ^h 01'	2 ^h 57'	26 ^h 59'	14 ^h 20'	W 1
T 2	10 39 11	11 ^h 28'02"	9 ^h 25'	27 ^h 51'	27 ^h 50'	16 ^h 3'	26 ^h 6'	29 ^h 54'	25 ^h 22'	7 ^h 2'	11 ^h 33'	1 ^h 01'	2 ^h 54'	27 ^h 6'	14 ^h 24'	T 2
F 3	10 43 7	12 ^h 28'10"	23 ^h 29'	29 ^h 32'	28 ^h 48'	16 ^h 30'	26 ^h 13'	29 ^h 52'	25 ^h 25'	7 ^h 4'	11 ^h 33'	1 ^h 02'	2 ^h 50'	27 ^h 13'	14 ^h 28'	F 3
S 4	10 47 4	13 ^h 28'15"	7 ^h 11'	1 ^h 15'	29 ^h 45'	16 ^h 56'	26 ^h 20'	29 ^h 50'	25 ^h 24'	7 ^h 6'	11 ^h 34'	1 ^h 01'	2 ^h 47'	27 ^h 19'	14 ^h 32'	S 4
S 5	10 51 1	14 ^h 28'19"	20 ^h 24'	2 ^h 58'	0 ^h 42'	17 ^h 23'	26 ^h 28'	29 ^h 47'	25 ^h 25'	7 ^h 8'	11 ^h 35'	1 ^h 03'	2 ^h 44'	27 ^h 26'	14 ^h 35'	S 5
M 6	10 54 57	15 ^h 28'20"	3 ^h 20'	4 ^h 43'	1 ^h 38'	17 ^h 49'	26 ^h 35'	29 ^h 45'	25 ^h 25'	7 ^h 10'	11 ^h 36'	1 ^h 01'	2 ^h 41'	27 ^h 33'	14 ^h 39'	M 6
T 7	10 58 54	16 ^h 28'19"	16 ^h 0'	6 ^h 29'	2 ^h 34'	18 ^h 17'	26 ^h 41'	29 ^h 42'	25 ^h 25'	7 ^h 12'	11 ^h 37'	1 ^h 07'	2 ^h 38'	27 ^h 39'	14 ^h 43'	T 7
W 8	11 2 50	17 ^h 28'16"	28 ^h 25'	8 ^h 15'	3 ^h 29'	18 ^h 44'	26 ^h 48'	29 ^h 39'	25 ^h 25'	7 ^h 15'	11 ^h 38'	1 ^h 02'	2 ^h 34'	27 ^h 46'	14 ^h 47'	W 8
T 9	11 6 47	18 ^h 28'11"	10 ^h 23'	10 ^h 3'	4 ^h 24'	19 ^h 11'	26 ^h 55'	29 ^h 36'	25 ^h 25'	7 ^h 17'	11 ^h 38'	0 ^h 55'	2 ^h 31'	27 ^h 53'	14 ^h 51'	T 9
F 10	11 10 43	19 ^h 28'04"	22 ^h 45'	11 ^h 53'	5 ^h 17'	19 ^h 39'	27 ^h 1'	29 ^h 34'	25 ^h 26'	7 ^h 19'	11 ^h 39'	0 ^h 47'	2 ^h 28'	28 ^h 0'	14 ^h 54'	F 10
S 11	11 14 40	20 ^h 27'54"	4 ^h 44'	13 ^h 43'	6 ^h 11'	20 ^h 7'	27 ^h 7'	29 ^h 31'	25 ^h 26'	7 ^h 21'	11 ^h 40'	0 ^h 39'	2 ^h 25'	28 ^h 6'	14 ^h 58'	S 11
S 12	11 18 36	21 ^h 27'42"	16 ^h 37'	15 ^h 34'	7 ^h 3'	20 ^h 35'	27 ^h 13'	29 ^h 28'	25 ^h 26'	7 ^h 23'	11 ^h 41'	0 ^h 32'	2 ^h 22'	28 ^h 13'	15 ^h 2'	S 12
M13	11 22 33	22 ^h 27'29"	28 ^h 28'	17 ^h 27'	7 ^h 55'	21 ^h 3'	27 ^h 19'	29 ^h 24'	25 ^h 27'	7 ^h 26'	11 ^h 42'	0 ^h 26'	2 ^h 19'	28 ^h 20'	15 ^h 6'	M13
T 14	11 26 30	23 ^h 27'13"	10 ^h 16'	19 ^h 21'	8 ^h 46'	21 ^h 31'	27 ^h 25'	29 ^h 21'	25 ^h 27'	7 ^h 28'	11 ^h 43'	0 ^h 22'	2 ^h 15'	28 ^h 26'	15 ^h 10'	T 14
W15	11 30 26	24 ^h 26'56"	22 ^h 6'	21 ^h 15'	9 ^h 36'	22 ^h 0'	27 ^h 31'	29 ^h 18'	25 ^h 28'	7 ^h 30'	11 ^h 44'	0 ^h 20'	2 ^h 12'	28 ^h 33'	15 ^h 13'	W15
T 16	11 34 23	25 ^h 26'37"	3 ^h 58'	23 ^h 11'	10 ^h 25'	22 ^h 28'	27 ^h 36'	29 ^h 15'	25 ^h 29'	7 ^h 32'	11 ^h 45'	0 ^h 20'	2 ^h 9'	28 ^h 40'	15 ^h 17'	T 16
F 17	11 38 19	26 ^h 26'16"	15 ^h 57'	25 ^h 8'	11 ^h 14'	22 ^h 57'	27 ^h 42'	29 ^h 11'	25 ^h 29'	7 ^h 34'	11 ^h 46'	0 ^h 21'	2 ^h 6'	28 ^h 46'	15 ^h 21'	F 17
S 18	11 42 16	27 ^h 25'53"	28 ^h 5'	27 ^h 7'	12 ^h 2'	23 ^h 26'	27 ^h 47'	29 ^h 8'	25 ^h 30'	7 ^h 37'	11 ^h 47'	0 ^h 22'	2 ^h 3'	28 ^h 53'	15 ^h 25'	S 18
S 19	11 46 12	28 ^h 25'28"	10 ^h 27'	29 ^h 5'	12 ^h 48'	23 ^h 55'	27 ^h 52'	29 ^h 4'	25 ^h 31'	7 ^h 39'	11 ^h 48'	0 ^h 24'	1 ^h 59'	29 ^h 0'	15 ^h 28'	S 19
M20	11 50 9	29 ^h 25'02"	23 ^h 8'	1 ^h 5'	13 ^h 34'	24 ^h 25'	27 ^h 57'	29 ^h 0'	25 ^h 32'	7 ^h 41'	11 ^h 49'	0 ^h 25'	1 ^h 56'	29 ^h 6'	15 ^h 32'	M20
T 21	11 54 5	0 ^h 24'34"	6 ^h 31'	3 ^h 6'	14 ^h 19'	24 ^h 54'	28 ^h 1'	28 ^h 57'	25 ^h 32'	7 ^h 43'	11 ^h 50'	0 ^h 25'	1 ^h 53'	29 ^h 13'	15 ^h 36'	T 21
W22	11 58 2	1 ^h 24'04"	19 ^h 40'	5 ^h 7'	15 ^h 3'	25 ^h 24'	28 ^h 6'	28 ^h 53'	25 ^h 33'	7 ^h 46'	11 ^h 51'	0 ^h 24'	1 ^h 50'	29 ^h 20'	15 ^h 40'	W22
T 23	12 1 59	2 ^h 23'33"	3 ^h 36'	7 ^h 9'	15 ^h 46'	25 ^h 53'	28 ^h 10'	28 ^h 49'	25 ^h 34'	7 ^h 48'	11 ^h 52'	0 ^h 21'	1 ^h 47'	29 ^h 26'	15 ^h 43'	T 23
F 24	12 5 55	3 ^h 22'59"	18 ^h 0'	9 ^h 10'	16 ^h 28'	26 ^h 23'	28 ^h 14'	28 ^h 45'	25 ^h 35'	7 ^h 50'	11 ^h 53'	0 ^h 18'	1 ^h 44'	29 ^h 33'	15 ^h 47'	F 24
S 25	12 9 52	4 ^h 22'24"	2 ^h 48'	11 ^h 12'	17 ^h 9'	26 ^h 53'	28 ^h 18'	28 ^h 41'	25 ^h 37'	7 ^h 52'	11 ^h 54'	0 ^h 14'	1 ^h 40'	29 ^h 40'	15 ^h 51'	S 25
S 26	12 13 48	5 ^h 21'47"	17 ^h 53'	13 ^h 14'	17 ^h 49'	27 ^h 23'	28 ^h 22'	28 ^h 37'	25 ^h 38'	7 ^h 55'	11 ^h 55'	0 ^h 11'	1 ^h 37'	29 ^h 46'	15 ^h 54'	S 26
M27	12 17 45	6 ^h 21'08"	3 ^h 5'	15 ^h 15'	18 ^h 27'	27 ^h 54'	28 ^h 26'	28 ^h 33'	25 ^h 39'	7 ^h 57'	11 ^h 57'	0 ^h 8'	1 ^h 34'	29 ^h 53'	15 ^h 58'	M27
T 28	12 21 41	7 ^h 20'26"	18 ^h 19'	17 ^h 15'	19 ^h 5'	28 ^h 24'	28 ^h 29'	28 ^h 29'	25 ^h 40'	7 ^h 59'	11 ^h 58'	0 ^h 7'	1 ^h 31'	29 ^h 59'	16 ^h 2'	T 28
W29	12 25 38	8 ^h 19'43"	3 ^h 20'	19 ^h 14'	19 ^h 40'	28 ^h 55'	28 ^h 33'	28 ^h 25'	25 ^h 41'	8 ^h 2'	11 ^h 59'	0 ^h 6'	1 ^h 28'	0 ^h 6'	16 ^h 5'	W29
T 30	12 29 34	9 ^h 18'58"	18 ^h 2'	21 ^h 12'	20 ^h 15'	29 ^h 25'	28 ^h 36'	28 ^h 21'	25 ^h 43'	8 ^h 4'	12 ^h 0'	0 ^h 7'	1 ^h 25'	0 ^h 13'	16 ^h 9'	T 30
F 31	12 33 31	10 ^h 18'10"	2 ^h 20'	23 ^h 5'	20 ^h 48'	29 ^h 56'	28 ^h 39'	28 ^h 17'	25 ^h 44'	8 ^h 6'	12 ^h 1'	0 ^h 8'	1 ^h 21'	0 ^h 20'	16 ^h 12'	F 31

Day	☉	☽		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1865

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APRIL 1865

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Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	12 37 27	11°17'20	16°11'11	25°17'01	21°18'20	0°25'27	28°27'41	28°18'13	25°11'46	8°17'08	12°18'02	0°11'10	1°11'18	0°25'26	16°16'16	S 1
S 2	12 41 24	12°16'28	29°36'00	26°52'00	21°50'00	0°58'00	28°44'00	28°08'00	25°47'00	8°11'00	12°04'00	0°11'00	1°15'00	0°33'00	16°19'00	S 2
M 3	12 45 21	13°15'34	12°33'37	28°39'00	22°19'00	1°29'00	28°46'00	28°04'00	25°49'00	8°13'00	12°05'00	0°11'00	1°12'00	0°40'00	16°23'00	M 3
T 4	12 49 17	14°14'37	25°16'00	0°23'38	22°46'00	2°00'00	28°49'00	28°00'00	25°50'00	8°15'00	12°06'00	0°11'00	1°09'00	0°46'00	16°26'00	T 4
W 5	12 53 14	15°13'38	7°02'38	2°03'00	23°12'00	2°32'00	28°51'00	27°55'00	25°52'00	8°17'00	12°07'00	0°10'00	1°05'00	0°53'00	16°30'00	W 5
T 6	12 57 10	16°12'36	19°46'00	3°40'00	23°35'00	3°03'00	28°52'00	27°51'00	25°54'00	8°20'00	12°08'00	0°08'00	1°02'00	0°59'00	16°33'00	T 6
F 7	13 01 07	17°11'32	1°04'45	5°11'00	23°57'00	3°35'00	28°54'00	27°46'00	25°55'00	8°22'00	12°10'00	0°06'00	1°06'00	0°59'00	16°37'00	F 7
S 8	13 05 03	18°10'26	13°37'00	6°38'00	24°17'00	4°06'00	28°56'00	27°42'00	25°57'00	8°24'00	12°11'00	0°04'00	1°13'00	0°56'00	16°40'00	S 8
S 9	13 09 00	19°09'18	25°26'00	8°00'00	24°35'00	4°38'00	28°57'00	27°37'00	25°59'00	8°26'00	12°12'00	0°03'00	1°19'00	0°53'00	16°43'00	S 9
M10	13 12 56	20°08'08	7°15'15	9°17'00	24°51'00	5°10'00	28°58'00	27°33'00	26°01'00	8°29'00	12°13'00	0°01'00	1°26'00	0°50'00	16°47'00	M10
T 11	13 16 53	21°06'55	19°05'00	10°29'00	25°05'00	5°42'00	28°59'00	27°28'00	26°03'00	8°31'00	12°15'00	0°01'00	1°33'00	0°46'00	16°50'00	T 11
W12	13 20 50	22°05'41	1°00'00	11°35'00	25°17'00	6°14'00	29°00'00	27°24'00	26°05'00	8°33'00	12°16'00	0°01'00	1°39'00	0°43'00	16°53'00	W12
T 13	13 24 46	23°04'24	13°00'00	12°35'00	25°27'00	6°46'00	29°00'00	27°19'00	26°07'00	8°35'00	12°17'00	0°01'00	1°46'00	0°40'00	16°56'00	T 13
F 14	13 28 43	24°03'06	25°00'00	13°30'00	25°34'00	7°18'00	29°01'00	27°15'00	26°09'00	8°38'00	12°19'00	0°01'00	1°53'00	0°37'00	17°00'00	F 14
S 15	13 32 39	25°01'46	7°27'28	14°19'00	25°39'00	7°51'00	29°01'00	27°10'00	26°11'00	8°40'00	12°20'00	0°02'00	1°59'00	0°34'00	17°03'00	S 15
S 16	13 36 36	26°00'25	19°59'00	15°02'00	25°42'00	8°23'00	29°01'00	27°05'00	26°13'00	8°42'00	12°21'00	0°02'00	2°06'00	0°30'00	17°06'00	S 16
M17	13 40 32	26°59'01	2°34'46	15°38'00	25°44'00	8°55'00	29°00'00	27°01'00	26°15'00	8°44'00	12°23'00	0°03'00	2°13'00	0°27'00	17°09'00	M17
T 18	13 44 29	27°57'36	15°52'00	16°09'00	25°41'00	9°28'00	29°00'00	26°56'00	26°17'00	8°46'00	12°24'00	0°03'00	2°19'00	0°24'00	17°12'00	T 18
W19	13 48 25	28°56'09	29°17'00	16°34'00	25°36'00	10°00'00	28°59'00	26°52'00	26°20'00	8°48'00	12°25'00	0°03'00	2°26'00	0°21'00	17°15'00	W19
T 20	13 52 22	29°54'41	13°25'00	16°53'00	25°30'00	10°33'00	28°59'00	26°47'00	26°22'00	8°51'00	12°26'00	0°03'00	2°33'00	0°18'00	17°18'00	T 20
F 21	13 56 19	0°53'11	27°14'00	17°05'00	25°21'00	11°06'00	28°58'00	26°42'00	26°24'00	8°53'00	12°28'00	0°03'00	2°39'00	0°15'00	17°21'00	F 21
S 22	14 00 15	1°51'39	11°14'44	17°12'00	25°09'00	11°39'00	28°57'00	26°38'00	26°27'00	8°55'00	12°29'00	0°03'00	2°46'00	0°11'00	17°24'00	S 22
S 23	14 04 12	2°50'06	26°31'00	17°13'00	24°55'00	12°12'00	28°55'00	26°33'00	26°29'00	8°57'00	12°31'00	0°03'00	2°53'00	0°08'00	17°27'00	S 23
M24	14 08 08	3°48'31	11°17'28	17°09'00	24°38'00	12°45'00	28°54'00	26°29'00	26°32'00	8°59'00	12°32'00	0°03'00	3°05'00	0°05'00	17°30'00	M24
T 25	14 12 05	4°46'54	26°29'00	16°59'00	24°20'00	13°18'00	28°52'00	26°24'00	26°34'00	9°01'00	12°33'00	0°04'00	3°13'00	0°02'00	17°33'00	T 25
W26	14 16 01	5°45'16	11°18'25	16°44'00	23°59'00	13°51'00	28°50'00	26°20'00	26°37'00	9°03'00	12°35'00	0°04'00	3°20'00	0°02'00	17°36'00	W26
T 27	14 19 58	6°43'36	26°08'00	16°25'00	23°35'00	14°24'00	28°48'00	26°15'00	26°39'00	9°05'00	12°36'00	0°03'00	3°26'00	0°02'00	17°39'00	T 27
F 28	14 23 54	7°41'53	10°11'31	16°01'00	23°10'00	14°57'00	28°46'00	26°11'00	26°42'00	9°07'00	12°37'00	0°02'00	3°33'00	0°02'00	17°42'00	F 28
S 29	14 27 51	8°40'09	24°30'00	15°34'00	22°42'00	15°31'00	28°43'00	26°06'00	26°44'00	9°09'00	12°39'00	0°01'00	3°40'00	0°01'00	17°45'00	S 29
S 30	14 31 47	9°38'23	8°25'03	15°18'03	22°18'13	16°05'04	28°41'00	26°02'00	26°46'00	9°12'00	12°40'00	0°01'00	3°47'00	0°01'00	17°48'00	S 30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	4n28	18n57	3s48	10n31	0n54	23n21	5n27	25n26	1n59	22s57	0n30	8s16	2n45	23n35	0n12	1n53	1s28	0n43	15s27	11s32	11s56	2s36	1s10	4n37
S 2	4 51	18 55	4 33	11 23	1 5	23 34	5 31	25 25	1 58	22 57	0 30	8 14	2 46	23 35	0 12	1 54	1 28	0 43	15 27	11 33	11 55	2 38	1 8	4 37
M 3	5 14	17 51	5 2	12 12	1 17	23 46	5 36	25 24	1 58	22 57	0 30	8 13	2 46	23 35	0 12	1 55	1 28	0 44	15 27	11 33	11 54	2 40	1 7	4 37
T 4	5 37	15 56	5 15	12 59	1 28	23 57	5 40	25 23	1 57	22 57	0 30	8 11	2 46	23 35	0 12	1 56	1 28	0 44	15 27	11 33	11 53	2 42	1 6	4 37
W 5	6 0	13 19	5 14	13 45	1 39	24 8	5 44	25 22	1 57	22 57	0 30	8 10	2 46	23 36	0 12	1 57	1 28	0 45	15 27	11 32	11 52	2 44	1 4	4 37
T 6	6 23	10 10	4 58	14 28	1 50	24 18	5 48	25 21	1 56	22 57	0 30	8 8	2 46	23 36	0 12	1 58	1 28	0 45	15 27	11 32	11 51	2 46	1 3	4 38
F 7	6 45	6 39	4 30	15 8	2 0	24 27	5 52	25 20	1 55	22 57	0 30	8 6	2 46	23 36	0 12	1 59	1 28	0 46	15 26	11 31	11 49	2 48	1 1	4 38
S 8	7 8	2 54	3 50	15 46	2 9	24 35	5 55	25 18	1 55	22 57	0 30	8 5	2 46	23 36	0 12	2 0	1 28	0 46	15 26	11 30	11 48	2 50	1 0	4 38
S 9	7 30	0s57	3 0	16 22	2 18	24 43	5 59	25 17	1 54	22 57	0 30	8 3	2 46	23 36	0 12	2 0	1 28	0 47	15 26	11 30	11 47	2 52	0 59	4 38
M10	7 53	4 46	2 3	16 54	2 26	24 50	6 1	25 15	1 54	22 57	0 30	8 1	2 46	23 36	0 12	2 1	1 28	0 47	15 26	11 29	11 46	2 54	0 57	4 38
T 11	8 15	8 25	1 0	17 24	2 33	24 56	6 4	25 13	1 53	22 57	0 30	8 0	2 46	23 36	0 12	2 2	1 28	0 48	15 26	11 29	11 45	2 55	0 56	4 38
W12	8 37	11 45	0n 5	17 51	2 40	25 1	6 6	25 11	1 53	22 57	0 30	7 58	2 46	23 36	0 12	2 3	1 28	0 48	15 26	11 29	11 44	2 57	0 55	4 38
T 13	8 58	14 37	1 12	18 15	2 45	25 5	6 8	25 9	1 52	22 57	0 30	7 56	2 46	23 36	0 12	2 4	1 28	0 49	15 26	11 29	11 43	2 59	0 53	4 38
F 14	9 20	16 53	2 15	18 36	2 50	25 9	6 10	25 7	1 52	22 57	0 30	7 55	2 46	23 36	0 12	2 5	1 28	0 49	15 26	11 29	11 42	3 1	0 52	4 38
S 15	9 42	18 23	3 14	18 54	2 53	25 11	6 11	25 4	1 51	22 57	0 30	7 53	2 46	23 36	0 12	2 6	1 28	0 50	15 25	11 29	11 41	3 3	0 51	4 38
S 16	10 3	19 2	4 4	19 9	2 56	25 13	6 12	25 2	1 51	22 57	0 30	7 51	2 46	23 36	0 12	2 6	1 28	0 50	15 25	11 30	11 39	3 5	0 49	4 38
M17	10 24	18 43	4 43	19 21	2 57	25 13	6 12	24 59	1 50	22 57	0 30	7 50	2 46	23 36	0 12	2 7	1 28	0 51	15 25	11 30	11 38	3 7	0 48	4 38
T 18	10 45	17 25	5 8	19 30	2 57	25 12	6 12	24 56	1 50	22 57	0 30	7 48	2 46	23 36	0 12	2 8	1 28	0 51	15 25	11 30	11 37	3 9	0 47	4 39
W19	11 6	15 8	5 18	19 36	2 56	25 11	6 11	24 53	1 49	22 57	0 30	7 47	2 46	23 36	0 12	2 9	1 28	0 51	15 25	11 30	11 36	3 11	0 46	4 39
T 20	11 27	11 57	5 10	19 40	2 53	25 8	6 10	24 50	1 49	22 58	0 30	7 45	2 46	23 36	0 12	2 10	1 28	0 52	15 25	11 30	11 35	3 13	0 44	4 39
F 21	11 47	8 0	4 43	19 40	2 50	25 4	6 8	24 47	1 48	22 58	0 29	7 43	2 46	23 36	0 12	2 11	1 28	0 52	15 25	11 30	11 34	3 15	0 43	4 39
S 22	12 8	3 30	3 58	19 37	2 45	24 59	6 6	24 44	1 48	22 58	0 29	7 42	2 46	23 37	0 12	2 11	1 28	0 53	15 25	11 30	11 33	3 17	0 42	4 39
S 23	12 28	1n18	2 56	19 31	2 38	24 53	6 3	24 40	1 47	22 58	0 29	7 40	2 46	23 37	0 12	2 12	1 28	0 53	15 25	11 30	11 32	3 19	0 40	4 39
M24	12 48	6 6	1 42	19 22	2 31	24 45	6 0	24 37	1 47	22 58	0 29	7 39	2 46	23 37	0 12	2 13	1 28	0 54	15 25	11 30	11 31	3 21	0 39	4 39
T 25	13 7	10 32	0 20	19 11	2 22	24 36	5 56	24 33	1 46	22 58	0 29	7 37	2 46	23 37	0 12	2 14	1 28	0 54	15 24	11 30	11 29	3 23	0 38	4 39
W26	13 27	14 16	1s 3	18 57	2 11	24 26	5 51	24 29	1 45	22 58	0 29	7 35	2 46	23 37	0 12	2 15	1 28	0 55	15 24	11 30	11 28	3 25	0 37	4 40
T 27	13 46	17 2	2 20	18 40	2 0	24 15	5 46	24 25	1 45	22 58	0 29	7 34	2 46	23 37	0 12	2 15	1 28	0 55	15 24	11 30	11 27	3 26	0 36	4 40
F 28	14 5	18 38	3 26	18 21	1 47	24 3	5 40	24 21	1 44	22 58	0 29	7 32	2 46	23 37	0 12	2 16	1 28	0 55	15 24	11 30	11 26	3 28	0 34	4 40
S 29	14 24	19 2	4 19	18 0	1 33	23 49	5 33	24 16	1 44	22 58	0 29	7 31	2 46	23 37	0 12	2 17	1 28	0 56	15 24	11 29	11 25	3 30	0 33	4 40
S 30	14n43	18n19	4s54	17n37	1n18	23n34	5n25	24n12	1n43	22s58	0n29	7s29	2n46	23n37	0n12	2n18	1s28	0n56	15s24	11s29	11s24	3s32	0s32	4n40

ASTRODIENST EPHEMERIS for the year 1865

geocentric

MAY 1865

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	14 35 44	10°36'35	21°51'10	14°R29	21°R42	16°53'38	28°R38	25°R58	26°II50	9°Y14	12°841	29°R59	29°43	3°46	17°49	M 1
T 2	14 39 41	11°34'45	3°52'54	13°54	21°8 9	17°11	28°35	25°53	26°53	9°16	12°43	29°59	29°40	3°53	17°52	T 2
W 3	14 43 37	12°32'53	16°17	13°17	20°35	17°45	28°32	25°49	26°55	9°17	12°44	29°D59	29°36	3°59	17°54	W 3
T 4	14 47 34	13°30'59	28°25	12°39	19°59	18°19	28°28	25°45	26°58	9°19	12°45	29°59	29°33	4° 6	17°57	T 4
F 5	14 51 30	14°29'03	10°17'22	12° 2	19°23	18°52	28°25	25°40	27° 1	9°21	12°47	0°M 0	29°30	4°13	17°59	F 5
S 6	14 55 27	15°27'05	22°13	11°25	18°46	19°26	28°21	25°36	27° 4	9°23	12°48	0° 2	29°27	4°19	18° 2	S 6
S 7	14 59 23	16°25'05	4° 1	10°49	18° 8	20° 0	28°17	25°32	27° 7	9°25	12°49	0° 3	29°24	4°26	18° 4	S 7
M 8	15 3 20	17°23'04	15°50	10°15	17°31	20°34	28°13	25°28	27°10	9°27	12°51	0° 4	29°21	4°33	18° 6	M 8
T 9	15 7 16	18°21'01	27°45	9°44	16°53	21° 8	28° 9	25°24	27°13	9°29	12°52	0°R 5	29°17	4°39	18° 9	T 9
W10	15 11 13	19°18'56	9°M47	9°15	16°15	21°42	28° 5	25°20	27°16	9°31	12°54	0° 4	29°14	4°46	18°11	W10
T11	15 15 10	20°16'49	21°59	8°50	15°38	22°16	28° 0	25°16	27°19	9°33	12°55	0° 3	29°11	4°53	18°13	T11
F12	15 19 6	21°14'41	4°22	8°28	15° 2	22°50	27°56	25°12	27°22	9°35	12°56	0° 1	29° 8	4°59	18°15	F12
S13	15 23 3	22°12'32	16°58	8°11	14°26	23°24	27°51	25° 8	27°25	9°36	12°58	29°58	29° 5	5° 6	18°17	S13
S14	15 26 59	23°10'21	29°47	7°57	13°52	23°58	27°46	25° 4	27°28	9°38	12°59	29°54	29° 2	5°13	18°19	S14
M15	15 30 56	24° 8'09	12°50	7°48	13°19	24°33	27°41	25° 1	27°31	9°40	13° 0	29°51	28°58	5°19	18°21	M15
T16	15 34 52	25° 5'56	26° 7	7°44	12°48	25° 7	27°36	24°57	27°34	9°42	13° 2	29°48	28°55	5°26	18°23	T16
W17	15 38 49	26° 3'42	9°39	7°D44	12°18	25°41	27°30	24°53	27°37	9°43	13° 3	29°46	28°52	5°33	18°25	W17
T18	15 42 45	27° 1'26	23°26	7°48	11°51	26°16	27°25	24°50	27°40	9°45	13° 4	29°D45	28°49	5°39	18°27	T18
F19	15 46 42	27°59'10	7°26	7°57	11°25	26°50	27°19	24°46	27°44	9°47	13° 6	29°45	28°46	5°46	18°29	F19
S20	15 50 39	28°56'52	21°41	8°11	11° 1	27°25	27°13	24°43	27°47	9°48	13° 7	29°46	28°42	5°53	18°31	S20
S21	15 54 35	29°54'33	6°Y 7	8°29	10°40	28° 0	27° 7	24°40	27°50	9°50	13° 8	29°48	28°39	5°59	18°33	S21
M22	15 58 32	0°II52'14	20°41	8°51	10°21	28°34	27° 1	24°36	27°53	9°51	13°10	29°49	28°36	6° 6	18°34	M22
T23	16 2 28	1°49'53	5°820	9°18	10° 4	29° 9	26°55	24°33	27°57	9°53	13°11	29°R49	28°33	6°12	18°36	T23
W24	16 6 25	2°47'31	19°56	9°49	9°50	29°44	26°49	24°30	28° 0	9°55	13°12	29°48	28°30	6°19	18°37	W24
T25	16 10 21	3°45'09	4°II25	10°24	9°38	0°II18	26°43	24°27	28° 3	9°56	13°13	29°45	28°27	6°26	18°39	T25
F26	16 14 18	4°42'45	18°39	11° 3	9°29	0°53	26°36	24°24	28° 7	9°58	13°15	29°40	28°23	6°32	18°40	F26
S27	16 18 14	5°40'19	2°34	11°46	9°22	1°28	26°29	24°21	28°10	9°59	13°16	29°35	28°20	6°39	18°42	S27
S28	16 22 11	6°37'53	16° 7	12°32	9°17	2° 3	26°23	24°18	28°13	10° 1	13°17	29°29	28°17	6°46	18°43	S28
M29	16 26 8	7°35'25	29°16	13°22	9°D15	2°38	26°16	24°16	28°17	10° 2	13°19	29°24	28°14	6°52	18°45	M29
T30	16 30 4	8°32'56	12°12	14°16	9°15	3°13	26° 9	24°13	28°20	10° 3	13°20	29°19	28°11	6°59	18°46	T30
W31	16 34 1	9°II30'26	24°128	15°13	9°817	3°148	26°2 2	24°11	28°II24	10°Y 5	13°821	29°16	28°1 8	7°1 6	18°47	W31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	15n 1	16n37	5s14	17n12	1n 3	23n18	5n17	24n 7	1n43	22s58	0n29	7s28	2n46	23n37	0n12	2n19	1s28	0n57	15s24	11s29	11s23	3s34	0s31	4n40										
T 2	15 19	14 10	5 17	16 46	0 47	23 1	5 8	24 2	1 42	22 58	0 29	7 26	2 45	23 37	0 12	2 19	1 28	0 57	15 24	11 28	11 22	3 36	0 30	4 40										
W 3	15 37	11 7	5 5	16 19	0 30	22 42	4 59	23 58	1 42	22 58	0 29	7 25	2 45	23 37	0 12	2 20	1 28	0 58	15 24	11 28	11 20	3 38	0 29	4 41										
T 4	15 54	7 40	4 39	15 51	0 13	22 23	4 49	23 53	1 41	22 58	0 29	7 23	2 45	23 37	0 12	2 21	1 28	0 58	15 24	11 28	11 19	3 40	0 28	4 41										
F 5	16 12	3 57	4 2	15 23	0s 5	22 3	4 38	23 47	1 41	22 58	0 29	7 22	2 45	23 37	0 12	2 21	1 28	0 58	15 24	11 29	11 18	3 42	0 26	4 41										
S 6	16 29	0 7	3 15	14 55	0 22	21 41	4 27	23 42	1 40	22 58	0 29	7 20	2 45	23 37	0 12	2 22	1 28	0 59	15 24	11 29	11 17	3 44	0 25	4 41										
S 7	16 45	3s44	2 19	14 27	0 39	21 19	4 15	23 37	1 40	22 58	0 29	7 19	2 45	23 38	0 12	2 23	1 28	0 59	15 24	11 30	11 16	3 46	0 24	4 41										
M 8	17 2	7 26	1 18	14 1	0 56	20 57	4 3	23 31	1 39	22 58	0 29	7 18	2 45	23 38	0 12	2 24	1 28	1 0	15 24	11 30	11 15	3 48	0 23	4 41										
T 9	17 18	10 53	0 13	13 35	1 13	20 33	3 50	23 25	1 39	22 58	0 29	7 16	2 45	23 38	0 12	2 24	1 28	1 0	15 24	11 30	11 14	3 49	0 22	4 42										
W10	17 34	13 55	0n53	13 11	1 29	20 10	3 37	23 19	1 38	22 58	0 29	7 15	2 45	23 38	0 12	2 25	1 28	1 0	15 24	11 30	11 13	3 51	0 21	4 42										
T11	17 50	16 22	1 58	12 48	1 44	19 46	3 23	23 13	1 38	22 58	0 29	7 14	2 44	23 38	0 12	2 26	1 28	1 1	15 24	11 30	11 11	3 53	0 20	4 42										
F12	18 5	18 7	2 58	12 28	1 59	19 22	3 9	23 7	1 37	22 58	0 29	7 12	2 44	23 38	0 12	2 26	1 28	1 1	15 24	11 29	11 10	3 55	0 19	4 42										
S13	18 20	19 0	3 50	12 9	2 12	18 58	2 55	23 1	1 37	22 58	0 28	7 11	2 44	23 38	0 12	2 27	1 29	1 1	15 24	11 28	11 9	3 57	0 18	4 42										
S14	18 35	18 55	4 32	11 53	2 25	18 34	2 27	22 54	1 36	22 58	0 28	7 10	2 44	23 38	0 12	2 28	1 29	1 2	15 24	11 27	11 8	3 59	0 17	4 42										
M15	18 49	17 51	5 1	11 39	2 37	18 10	2 27	22 48	1 36	22 58	0 28	7 9	2 44	23 38	0 12	2 28	1 29	1 2	15 24	11 26	11 7	4 1	0 16	4 43										
T16	19 3	15 48	5 14	11 27	2 48	17 47	2 12	22 41	1 35	22 58	0 28	7 8	2 44	23 38	0 12	2 29	1 29	1 2	15 24	11 24	11 6	4 3	0 15	4 43										
W17	19 17	12 52	5 10	11 18	2 57	17 24	1 58	22 34	1 35	22 58	0 28	7 6	2 44	23 38	0 12	2 30	1 29	1 3	15 24	11 24	11 5	4 5	0 14	4 43										
T18	19 30	9 11	4 48	11 11	3 6	17 2	1 43	22 27	1 34	22 58	0 28	7 5	2 43	23 38	0 12	2 30	1 29	1 3	15 24	11 23	11 4	4 7	0 13	4 43										
F19	19 43	4 56	4 9	11 7	3 14	16 41	1 29	22 20	1 34	22 58	0 28	7 4	2 43	23 38	0 12	2 31	1 29	1 3	15 24	11 23	11 2	4 8	0 13	4 43										
S20	19 56	0 20	3 14	11 5	3 20	16 20	1 15	22 13	1 33	22 58	0 28	7 3	2 43	23 38	0 12	2 32	1 29	1 4	15 24	11 24	11 1	4 10	0 12	4 44										
S21	20 9	4n22	2 6	11 5	3 26	16 0	1 1	22 5	1 33	22 58	0 28	7 2	2 43	23 38	0 12	2 32	1 29	1 4	15 24	11 24	11 0	4 12	0 11	4 44										
M22	20 21	8 51	0 50	11 8	3 31	15 41	0 48	21 58	1 32	22 57	0 28	7 1	2 43	23 38	0 12	2 33	1 29	1 4	15 25	11 25	10 59	4 14	0 10	4 44										
T23	20 32	12 50	0s30	11 13	3 34	15 23	0 34	21 50	1 32	22 57	0 28	7 0	2 43	23 38	0 12	2 33	1 29	1 5	15 25	11 25	10 58	4 16	0 9	4 44										
W24	20 44	16 0	1 48	11 20	3 37	15 6	0 21	21 42	1 31	22 57	0 28	6 59	2 42	23 39	0 12	2 34	1 29	1 5	15 25	11 24	10 57	4 18	0 8	4 44										
T25	20 55	18 7	2 58	11 29	3 39	14 50	0 8	21 34	1 31	22 57	0 28	6 58	2 42	23 39	0 12	2 34	1 29	1 5	15 25	11 23	10 56	4 20	0 8	4 45										
F26	21 6	19 4	3 55	11 40	3 39	14 36	0s 4	21 26	1 30	22 57	0 27	6 57	2 42	23 39	0 12	2 35	1 29	1 5	15 25	11 22	10 55	4 22	0 7	4 45										
S27	21 16	18 48	4 38	11 53	3 39	14 22	0 16	21 18	1 30	22 57	0 27	6 56	2 42	23 39	0 12	2 35	1 29	1 6	15 25	11 20	10 53	4 24	0 6	4 45										
S28	21 26	17 28	5 3	12 8	3 39	14 9	0 28	21 10	1 29	22 57	0 27	6 56	2 42	23 39	0 12	2 36	1 29	1 6	15 25	11 18	10 52	4 25	0 5	4 45										
M29	21 35	15 15	5 11	12 25	3 37	13 58	0 39	21 1	1 29	22 57	0 27	6 55	2 41	23 39	0 12	2 37	1 29	1 6	15 25	11 16	10 51	4 27	0 5	4 45										
T30	21 45	12 10	5 4	12 43	3 35	13 48	0 50	20 53	1 28	22 57	0 27	6 54	2 41	23 39	0 12	2 37	1 29	1 6	15 25	11 14	10 50	4 29	0 4	4 46										
W31	21n53	8n57	4s42	13n 2	3s31	13n38	1s 1	20n44	1n28	22s57	0n27	6s53	2n41	23n39	0n12	2n38	1s29	1n 7	15s25	11s13	10s49	4s31	0s 3	4n46										

ASTRODIENST EPHEMERIS for the year 1865
geocentric

JUNE 1865

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 57	10 ^{II} 2754	6 ^{III} 37	16 ^{III} 14	9 ^{II} 22	4 ^{II} 23	25°R55	24°R 8	28 ^{II} 27	10 ^{VI} 6	13 ^{II} 22	29°D15	28 ^{II} 4	7 ^{II} 12	18 ^{II} 48	T 1
F 2	16 41 54	11°25'21	18°34	17°18	9°29	4°58	25 ^{II} 48	24 ^{II} 6	28°31	10° 7	13°24	29 ^{II} 15	28° 1	7°19	18°49	F 2
S 3	16 45 50	12°22'47	0 ^{II} 25	18°25	9°38	5°34	25°41	24° 3	28°34	10° 9	13°25	29°16	27°58	7°26	18°50	S 3
S 4	16 49 47	13°20'12	12°13	19°35	9°49	6° 9	25°33	24° 1	28°38	10°10	13°26	29°18	27°55	7°32	18°51	S 4
M 5	16 53 43	14°17'35	24° 5	20°48	10° 2	6°44	25°26	23°59	28°41	10°11	13°27	29°R19	27°52	7°39	18°52	M 5
T 6	16 57 40	15°14'58	6 ^{III} 4	22° 4	10°17	7°19	25°19	23°57	28°45	10°12	13°28	29°19	27°48	7°46	18°53	T 6
W 7	17 1 37	16°12'19	18°15	23°24	10°34	7°55	25°11	23°55	28°48	10°14	13°29	29°17	27°45	7°52	18°54	W 7
T 8	17 5 33	17° 9'40	0 ^{II} 39	24°46	10°53	8°30	25° 4	23°53	28°52	10°15	13°31	29°13	27°42	7°59	18°55	T 8
F 9	17 9 30	18° 7'00	13°19	26°11	11°14	9° 6	24°56	23°52	28°55	10°16	13°32	29° 7	27°39	8° 6	18°56	F 9
S 10	17 13 26	19° 4'19	26°15	27°39	11°36	9°41	24°49	23°50	28°59	10°17	13°33	29° 0	27°36	8°12	18°56	S 10
S 11	17 17 23	20° 1'37	9 ^{II} 27	29°10	12° 0	10°17	24°41	23°48	29° 2	10°18	13°34	28°51	27°33	8°19	18°57	S 11
M12	17 21 19	20°58'55	22°52	0 ^{II} 44	12°26	10°52	24°33	23°47	29° 6	10°19	13°35	28°43	27°29	8°26	18°58	M12
T 13	17 25 16	21°56'12	6 ^{III} 30	2°21	12°54	11°28	24°26	23°45	29° 9	10°20	13°36	28°35	27°26	8°32	18°58	T 13
W14	17 29 13	22°53'29	20°19	4° 1	13°23	12° 3	24°18	23°44	29°13	10°21	13°37	28°29	27°23	8°39	18°58	W14
T 15	17 33 9	23°50'45	4 ^{II} 15	5°43	13°53	12°39	24°10	23°43	29°17	10°22	13°39	28°25	27°20	8°46	18°59	T 15
F 16	17 37 6	24°48'01	18°17	7°28	14°25	13°15	24° 3	23°42	29°20	10°23	13°40	28°24	27°17	8°52	18°59	F 16
S 17	17 41 2	25°45'17	2 ^{VI} 25	9°16	14°58	13°51	23°55	23°41	29°24	10°24	13°41	28°D24	27°14	8°59	19° 0	S 17
S 18	17 44 59	26°42'33	16°36	11° 7	15°32	14°26	23°47	23°40	29°27	10°25	13°42	28°24	27°10	9° 6	19° 0	S 18
M19	17 48 55	27°39'48	0 ^{II} 50	13° 0	16° 8	15° 2	23°40	23°39	29°31	10°25	13°43	28°R25	27° 7	9°12	19° 0	M19
T 20	17 52 52	28°37'04	15° 4	14°56	16°45	15°38	23°32	23°38	29°34	10°26	13°44	28°24	27° 4	9°19	19° 0	T 20
W21	17 56 48	29°34'19	29°15	16°54	17°23	16°14	23°25	23°38	29°38	10°27	13°45	28°20	27° 1	9°25	19° 0	W21
T 22	18 0 45	0 ^{II} 31'34	13 ^{II} 20	18°54	18° 2	16°50	23°17	23°37	29°42	10°28	13°46	28°14	26°58	9°32	19°R 0	T 22
F 23	18 4 42	1°28'49	27°14	20°57	18°43	17°26	23° 9	23°37	29°45	10°28	13°47	28° 6	26°54	9°39	19° 0	F 23
S 24	18 8 38	2°26'04	10 ^{II} 54	23° 1	19°24	18° 2	23° 2	23°37	29°49	10°29	13°48	27°56	26°51	9°45	19° 0	S 24
S 25	18 12 35	3°23'18	24°16	25° 7	20° 6	18°38	22°55	23°36	29°52	10°30	13°49	27°45	26°48	9°52	19° 0	S 25
M26	18 16 31	4°20'32	7 ^{II} 19	27°15	20°50	19°14	22°47	23°36	29°56	10°30	13°50	27°35	26°45	9°59	19° 0	M26
T 27	18 20 28	5°17'46	20° 1	29°24	21°34	19°50	22°40	23°D36	29°59	10°31	13°51	27°26	26°42	10° 5	18°59	T 27
W28	18 24 24	6°14'59	2 ^{III} 25	1 ^{II} 33	22°19	20°27	22°32	23°36	0 ^{II} 3	10°31	13°51	27°19	26°39	10°12	18°59	W28
T 29	18 28 21	7°12'11	14°34	3°44	23° 5	21° 3	22°25	23°37	0° 7	10°32	13°52	27°15	26°35	10°19	18°59	T 29
F 30	18 32 17	8 ^{II} 9'24	26 ^{III} 31	5 ^{II} 54	23 ^{II} 51	21 ^{II} 39	22 ^{II} 18	23 ^{II} 37	0 ^{II} 10	10°32	13 ^{II} 53	27 ^{II} 12	26 ^{II} 32	10 ^{II} 25	18 ^{II} 58	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	22n 2	5n15	4s 8	13n23	3s28	13n30	1s11	20n35	1n27	22s57	0n27	6s53	2n41	23n39	0n12	2n38	1s29	1n 7	15s26	11s13	10s48	4s33	0s 3	4n46	
F 2	22 10	1 24	3 23	13 45	3 23	13 23	1 20	20 26	1 27	22 57	0 27	6 52	2 40	23 39	0 12	2 38	1 29	1 7	15 26	11 13	10 47	4 35	0 2	4 46	
S 3	22 18	2s28	2 31	14 9	3 18	13 17	1 30	20 17	1 26	22 56	0 27	6 51	2 40	23 39	0 12	2 39	1 29	1 7	15 26	11 13	10 45	4 37	0 2	4 46	
S 4	22 25	6 14	1 31	14 33	3 12	13 12	1 39	20 8	1 26	22 56	0 27	6 51	2 40	23 39	0 12	2 39	1 29	1 8	15 26	11 14	10 44	4 39	0 1	4 47	
M 5	22 32	9 47	0 28	14 59	3 6	13 8	1 47	19 58	1 25	22 56	0 26	6 50	2 40	23 39	0 12	2 40	1 30	1 8	15 26	11 14	10 43	4 40	0 0	4 47	
T 6	22 38	12 59	0n37	15 25	2 59	13 5	1 55	19 49	1 25	22 56	0 26	6 50	2 40	23 39	0 12	2 40	1 30	1 8	15 26	11 14	10 42	4 42	0n 0	4 47	
W 7	22 44	15 40	1 41	15 52	2 51	13 3	2 3	19 39	1 24	22 56	0 26	6 49	2 39	23 39	0 12	2 41	1 30	1 8	15 26	11 14	10 41	4 44	0 1	4 47	
T 8	22 50	17 40	2 41	16 20	2 43	13 2	2 11	19 30	1 24	22 56	0 26	6 49	2 39	23 39	0 12	2 41	1 30	1 8	15 26	11 12	10 40	4 46	0 1	4 47	
F 9	22 55	18 52	3 35	16 48	2 34	13 1	2 18	19 20	1 23	22 56	0 26	6 48	2 39	23 39	0 12	2 41	1 30	1 9	15 27	11 10	10 39	4 48	0 2	4 48	
S 10	23 0	19 6	4 18	17 17	2 25	13 2	2 24	19 10	1 23	22 55	0 26	6 48	2 39	23 39	0 12	2 42	1 30	1 9	15 27	11 7	10 37	4 50	0 2	4 48	
S 11	23 5	18 18	4 49	17 46	2 16	13 3	2 31	19 0	1 22	22 55	0 26	6 47	2 38	23 39	0 12	2 42	1 30	1 9	15 27	11 4	10 36	4 52	0 3	4 48	
M12	23 9	16 30	5 5	18 16	2 6	13 5	2 37	18 49	1 22	22 55	0 26	6 47	2 38	23 39	0 12	2 43	1 30	1 9	15 27	11 1	10 35	4 53	0 3	4 48	
T 13	23 13	13 45	5 4	18 45	1 56	13 8	2 42	18 39	1 21	22 55	0 25	6 47	2 38	23 39	0 12	2 43	1 30	1 9	15 27	10 59	10 34	4 55	0 3	4 48	
W14	23 16	10 13	4 45	19 14	1 45	13 12	2 48	18 29	1 21	22 55	0 25	6 47	2 38	23 39	0 12	2 43	1 30	1 9	15 27	10 57	10 33	4 57	0 4	4 49	
T 15	23 19	6 5	4 9	19 43	1 35	13 16	2 53	18 18	1 20	22 54	0 25	6 46	2 37	23 39	0 12	2 44	1 30	1 9	15 28	10 55	10 32	4 59	0 4	4 49	
F 16	23 21	1 36	3 18	20 12	1 24	13 21	2 57	18 7	1 20	22 54	0 25	6 46	2 37	23 39	0 12	2 44	1 30	1 10	15 28	10 55	10 31	5 1	0 4	4 49	
S 17	23 23	3n 1	2 15	20 40	1 12	13 26	3 2	17 57	1 19	22 54	0 25	6 46	2 37	23 40	0 12	2 44	1 30	1 10	15 28	10 55	10 29	5 3	0 5	4 49	
S 18	23 25	7 30	1 3	21 7	1 1	13 32	3 6	17 46	1 19	22 54	0 25	6 46	2 37	23 40	0 12	2 44	1 30	1 10	15 28	10 55	10 28	5 5	0 5	4 50	
M19	23 26	11 34	0s13	21 33	0 49	13 39	3 10	17 35	1 18	22 54	0 25	6 46	2 36	23 40	0 12	2 45	1 30	1 10	15 28	10 55	10 27	5 6	0 5	4 50	
T 20	23 27	14 58	1 28	21 59	0 38	13 46	3 13	17 24	1 18	22 53	0 25	6 46	2 36	23 40	0 12	2 45	1 30	1 10	15 29	10 55	10 26	5 8	0 6	4 50	
W21	23 27	17 27	2 37	22 22	0 26	13 53	3 16	17 12	1 17	22 53	0 24	6 46	2 36	23 40	0 12	2 45	1 30	1 10	15 29	10 53	10 25	5 10	0 6	4 50	
T 22	23 27	18 51	3 36	22 45	0 15	14 1	3 20	17 1	1 17	22 53	0 24	6 46	2 36	23 40	0 12	2 45	1 30	1 10	15 29	10 51	10 24	5 12	0 6	4 50	
F 23	23 27	19 5	4 21	23 5	0 4	14 10	3 22	16 50	1 16	22 53	0 24	6 46	2 35	23 40	0 12	2 46	1 31	1 10	15 29	10 48	10 23	5 14	0 6	4 51	
S 24	23 26	18 11	4 50	23 24	0n 7	14 18	3 25	16 38	1 16	22 52	0 24	6 46	2 35	23 40	0 12	2 46	1 31	1 10	15 29	10 45	10 21	5 16	0 6	4 51	
S 25	23 25	16 18	5 3	23 40	0 18	14 27	3 27	16 26	1 15	22 52	0 24	6 46	2 35	23 40	0 12	2 46	1 31	1 10	15 30	10 41	10 20	5 18	0 7	4 51	
M26	23 23	13 38	4 59	23 54	0 29	14 37	3 29	16 15	1 15	22 52	0 24	6 47	2 35	23 40	0 12	2 46	1 31	1 10	15 30	10 37	10 19	5 19	0 7	4 51	
T 27	23 21	10 23	4 40	24 6	0 39	14 46	3 31	16 3	1 14	22 52	0 23	6 47	2 34	23 40	0 12	2 46	1 31	1 10	15 30	10 34	10 18	5 21	0 7	4 51	
W28	23 18	6 45	4 9	24 15	0 48	14 56	3 32	15 51	1 14	22 51	0 23	6 47	2 34	23 40	0 12	2 47	1 31	1 11	15 30	10 32	10 17	5 23	0 7	4 52	
T 29	23 15	2 54	3 27	24 21	0 57	15 6	3 34	15 39	1 13	22 51	0 23	6 47	2 34	23 40	0 12	2 47	1 31	1 11	15 30	10 30	10 16	5 25	0 7	4 52	
F 30	23n12	1s 0	2s36	24n25	1n 5	15n16	3s35	15n26	1n13	22s51	0n23	6s48	2n33	23n40	0n12	2n47	1s31	1n11	15s31	10s29	10s15	5s27	0n 7	4n52	

ASTRODIENST EPHEMERIS for the year 1865

geocentric

JULY 1865

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 36 14	9 ⁵⁵ 6'35	8 ²¹	8 ⁵	24 ⁸ 39	22 ¹⁵	22°R11	23 ³⁷	0 ¹⁴	10 ³³	13 ⁵⁴	27°D12	26 ²⁹	10 ³²	18°R58	S 1
S 2	18 40 11	10° 3'47	20°10	10°15	25°27	22°52	22 ⁷ 4	23°38	0°17	10°33	13°55	27 ¹²	26°26	10°39	18 ⁵⁷	S 2
M 3	18 44 7	11° 0'59	2 ³	12°25	26°16	23°28	21°57	23°38	0°21	10°34	13°56	27°R12	26°23	10°45	18°57	M 3
T 4	18 48 4	11°58'10	14° 5	14°35	27° 5	24° 5	21°50	23°39	0°25	10°34	13°57	27°11	26°19	10°52	18°56	T 4
W 5	18 52 0	12°55'21	26°21	16°43	27°56	24°41	21°44	23°40	0°28	10°34	13°57	27° 8	26°16	10°59	18°55	W 5
T 6	18 55 57	13°52'32	8 ⁵⁵	18°50	28°47	25°18	21°37	23°41	0°32	10°34	13°58	27° 2	26°13	11° 5	18°55	T 6
F 7	18 59 53	14°49'43	21°49	20°56	29°38	25°54	21°30	23°42	0°35	10°35	13°59	26°54	26°10	11°12	18°54	F 7
S 8	19 3 50	15°46'54	5 ³ 3	23° 1	0 ³⁰	26°31	21°24	23°43	0°39	10°35	14° 0	26°43	26° 7	11°19	18°53	S 8
S 9	19 7 46	16°44'05	18°37	25° 4	1°23	27° 7	21°18	23°44	0°42	10°35	14° 0	26°32	26° 4	11°25	18°52	S 9
M10	19 11 43	17°41'16	2 ²⁸	27° 6	2°16	27°44	21°12	23°45	0°46	10°35	14° 1	26°20	26° 0	11°32	18°51	M10
T 11	19 15 40	18°38'28	16°32	29° 5	3°10	28°21	21° 5	23°47	0°49	10°35	14° 2	26°10	25°57	11°38	18°50	T 11
W12	19 19 36	19°35'40	0 ⁴⁴	1 ⁴	4° 5	28°57	21° 0	23°48	0°53	10°35	14° 2	26° 1	25°54	11°45	18°49	W12
T 13	19 23 33	20°32'52	14°59	3° 0	5° 0	29°34	20°54	23°50	0°56	10°35	14° 3	25°56	25°51	11°52	18°48	T 13
F 14	19 27 29	21°30'05	29°14	4°54	5°55	0 ¹¹	20°48	23°51	0°59	10°R35	14° 4	25°52	25°48	11°58	18°47	F 14
S 15	19 31 26	22°27'19	13 ²⁶	6°47	6°51	0°48	20°42	23°53	1° 3	10°35	14° 4	25°51	25°45	12° 5	18°46	S 15
S 16	19 35 22	23°24'33	27°33	8°38	7°48	1°24	20°37	23°55	1° 6	10°35	14° 5	25°51	25°41	12°12	18°44	S 16
M17	19 39 19	24°21'48	11 ³⁵	10°27	8°44	2° 1	20°32	23°57	1°10	10°35	14° 5	25°51	25°38	12°18	18°43	M17
T 18	19 43 15	25°19'04	25°30	12°14	9°42	2°38	20°27	23°59	1°13	10°35	14° 6	25°49	25°35	12°25	18°42	T 18
W19	19 47 12	26°16'21	9 ¹⁹	13°59	10°39	3°15	20°22	24° 1	1°16	10°35	14° 7	25°45	25°32	12°32	18°40	W19
T 20	19 51 9	27°13'38	22°59	15°43	11°38	3°52	20°17	24° 3	1°20	10°35	14° 7	25°37	25°29	12°38	18°39	T 20
F 21	19 55 5	28°10'57	6 ²⁹	17°25	12°36	4°29	20°12	24° 5	1°23	10°35	14° 8	25°28	25°25	12°45	18°37	F 21
S 22	19 59 2	29° 8'16	19°47	19° 5	13°35	5° 6	20° 8	24° 8	1°26	10°34	14° 8	25°16	25°22	12°52	18°36	S 22
S 23	20 2 58	0 ⁵	2 ⁵¹	20°43	14°34	5°44	20° 3	24°10	1°30	10°34	14° 8	25° 3	25°19	12°58	18°34	S 23
M24	20 6 55	1° 2'55	15°39	22°19	15°34	6°21	19°59	24°13	1°33	10°34	14° 9	24°51	25°16	13° 5	18°32	M24
T 25	20 10 51	2° 0'16	28°12	23°54	16°34	6°58	19°55	24°16	1°36	10°33	14° 9	24°40	25°13	13°12	18°31	T 25
W26	20 14 48	2°57'37	10 ²⁹	25°26	17°34	7°35	19°51	24°18	1°39	10°33	14°10	24°31	25°10	13°18	18°29	W26
T 27	20 18 44	3°54'59	22°34	26°57	18°35	8°12	19°47	24°21	1°42	10°33	14°10	24°25	25° 6	13°25	18°27	T 27
F 28	20 22 41	4°52'22	4 ²⁸	28°26	19°36	8°50	19°44	24°24	1°46	10°32	14°10	24°21	25° 3	13°32	18°25	F 28
S 29	20 26 38	5°49'45	16°17	29°53	20°37	9°27	19°40	24°27	1°49	10°32	14°11	24°20	25° 0	13°38	18°24	S 29
S 30	20 30 34	6°47'08	28° 5	1 ¹⁹	21°39	10° 5	19°37	24°30	1°52	10°31	14°11	24°D20	24°57	13°45	18°22	S 30
M31	20 34 31	7 ⁴⁴ '33	9 ⁵⁸	2 ⁴²	22 ⁴⁰	10 ⁴²	19 ³⁷	24 ³⁴	1 ⁵⁵	10 ³¹	14 ¹¹	24°R20	24 ⁵⁴	13 ⁵¹	18 ²⁰	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	23n 8	4s49	1s39	24n25	1n13	15n27	3s36	15n14	1n12	22s51	0n23	6s48	2n33	23n40	0n12	2n47	1s31	1n11	15s31	10s29	10s13	5s29	0n 7	4n52			
S 2	23 4	8 28	0 37	24 23	1 20	15 38	3 37	15 2	1 12	22 50	0 23	6 49	2 33	23 40	0 12	2 47	1 31	1 11	15 31	10 29	10 12	5 30	0 7	4 53			
M 3	23 0	11 47	0n26	24 19	1 27	15 48	3 37	14 49	1 11	22 50	0 23	6 49	2 33	23 40	0 12	2 47	1 31	1 11	15 31	10 29	10 11	5 32	0 7	4 53			
T 4	22 55	14 40	1 29	24 11	1 32	15 59	3 38	14 37	1 11	22 50	0 22	6 50	2 32	23 40	0 12	2 47	1 31	1 11	15 32	10 28	10 10	5 34	0 7	4 53			
W 5	22 50	16 57	2 28	24 1	1 37	16 10	3 38	14 24	1 10	22 50	0 22	6 50	2 32	23 40	0 13	2 47	1 31	1 11	15 32	10 27	10 9	5 36	0 7	4 53			
T 6	22 44	18 28	3 22	23 48	1 41	16 21	3 38	14 11	1 10	22 49	0 22	6 51	2 32	23 40	0 13	2 47	1 31	1 11	15 32	10 25	10 8	5 38	0 7	4 53			
F 7	22 38	19 5	4 7	23 32	1 44	16 32	3 38	13 59	1 9	22 49	0 22	6 51	2 32	23 40	0 13	2 47	1 31	1 10	15 32	10 22	10 7	5 40	0 6	4 54			
S 8	22 31	18 42	4 40	23 15	1 47	16 43	3 38	13 46	1 9	22 49	0 22	6 52	2 31	23 40	0 13	2 47	1 31	1 10	15 33	10 19	10 5	5 41	0 6	4 54			
S 9	22 24	17 14	4 58	22 55	1 49	16 54	3 37	13 33	1 8	22 49	0 22	6 53	2 31	23 40	0 13	2 47	1 31	1 10	15 33	10 14	10 4	5 43	0 6	4 54			
M10	22 17	14 46	4 59	22 33	1 50	17 5	3 36	13 19	1 8	22 48	0 21	6 53	2 31	23 40	0 13	2 47	1 31	1 10	15 33	10 10	10 3	5 45	0 6	4 54			
T 11	22 9	11 24	4 42	22 9	1 50	17 17	3 36	13 6	1 7	22 48	0 21	6 54	2 31	23 40	0 13	2 47	1 32	1 10	15 33	10 6	10 2	5 47	0 6	4 54			
W12	22 1	7 21	4 8	21 44	1 50	17 27	3 35	12 53	1 6	22 48	0 21	6 55	2 30	23 40	0 13	2 47	1 32	1 10	15 34	10 3	10 1	5 49	0 5	4 54			
T 13	21 53	2 52	3 18	21 16	1 49	17 38	3 34	12 40	1 6	22 48	0 21	6 56	2 30	23 40	0 13	2 47	1 32	1 10	15 34	10 1	10 0	5 50	0 5	4 55			
F 14	21 44	1n46	2 16	20 48	1 48	17 49	3 33	12 26	1 5	22 47	0 21	6 57	2 30	23 40	0 13	2 47	1 32	1 10	15 34	10 0	9 58	5 52	0 5	4 55			
S 15	21 35	6 18	1 5	20 17	1 46	18 0	3 31	12 13	1 5	22 47	0 21	6 57	2 29	23 40	0 13	2 47	1 32	1 10	15 35	10 0	9 57	5 54	0 5	4 55			
S 16	21 25	10 28	0s 9	19 46	1 43	18 10	3 30	11 59	1 4	22 47	0 20	6 58	2 29	23 40	0 13	2 47	1 32	1 10	15 35	10 0	9 56	5 56	0 4	4 55			
M17	21 15	14 1	1 22	19 14	1 40	18 21	3 28	11 45	1 4	22 47	0 20	6 59	2 29	23 40	0 13	2 47	1 32	1 10	15 35	10 0	9 55	5 58	0 4	4 55			
T 18	21 5	16 43	2 30	18 40	1 36	18 31	3 26	11 32	1 3	22 47	0 20	7 0	2 29	23 40	0 13	2 47	1 32	1 10	15 35	9 59	9 54	5 59	0 4	4 56			
W19	20 55	18 26	3 28	18 6	1 31	18 41	3 25	11 18	1 3	22 46	0 20	7 1	2 28	23 40	0 13	2 47	1 32	1 10	15 36	9 57	9 53	6 1	0 3	4 56			
T 20	20 44	19 3	4 14	17 31	1 26	18 51	3 23	11 4	1 2	22 46	0 20	7 2	2 28	23 40	0 13	2 47	1 32	1 9	15 36	9 55	9 51	6 3	0 3	4 56			
F 21	20 32	18 34	4 45	16 55	1 21	19 0	3 21	10 50	1 2	22 46	0 20	7 3	2 28	23 40	0 13	2 47	1 32	1 9	15 36	9 51	9 50	6 5	0 2	4 56			
S 22	20 21	17 4	4 59	16 18	1 15	19 10	3 19	10 36	1 1	22 46	0 19	7 5	2 28	23 40	0 13	2 47	1 32	1 9	15 37	9 47	9 49	6 7	0 2	4 56			
S 23	20 9	14 42	4 58	15 41	1 9	19 19	3 16	10 22	1 1	22 46	0 19	7 6	2 27	23 39	0 13	2 46	1 32	1 9	15 37	9 42	9 48	6 8	0 1	4 56			
M24	19 56	11 40	4 41	15 4	1 3	19 27	3 14	10 7	1 0	22 46	0 19	7 7	2 27	23 39	0 13	2 46	1 32	1 9	15 37	9 38	9 47	6 10	0 1	4 57			
T 25	19 44	8 10	4 11	14 26	0 56	19 36	3 11	9 53	1 0	22 45	0 19	7 8	2 27	23 39	0 13	2 46	1 32	1 9	15 37	9 34	9 46	6 12	0 0	4 57			
W26	19 31	4 24	3 30	13 48	0 48	19 44	3 9	9 39	0 59	22 45	0 19	7 9	2 27	23 39	0 13	2 46	1 32	1 8	15 38	9 30	9 45	6 14	0s 0	4 57			
T 27	19 17	0 30	2 40	13 10	0 40	19 52	3 6	9 24	0 59	22 45	0 19	7 11	2 26	23 39	0 13	2 46	1 32	1 8	15 38	9 28	9 43	6 16	0 1	4 57			
F 28	19 4	3s22	1 43	12 32	0 32	20 0	3 4	9 10	0 58	22 45	0 18	7 12	2 26	23 39	0 13	2 45	1 32	1 8	15 38	9 27	9 42	6 17	0 1	4 57			
S 29	18 50	7 29	0 43	11 54	0 24	20 7	3 1	8 55	0 58	22 45	0 18	7 13	2 26	23 39	0 13	2 45	1 33	1 8	15 39	9 26	9 41	6 19	0 2	4 57			
S 30	18 35	10 29	0n20	11 15	0 15	20 14	2 58	8 41	0 57	22 45	0 18	7 15	2 26	23 39	0 13	2 45	1 33	1 8	15 39	9 26	9 40	6 21	0 3	4 57			
M31	18n21	13s31	1n22	10n37	0n 6	20n20	2s55	8n26	0n57	22s45	0n18	7s16	2n25	23n39	0n13	2n45	1s33	1n 8	15s39	9s26	9s39	6s23	0s 3	4n58			

ASTRODIENST EPHEMERIS for the year 1865

geocentric

AUGUST 1865

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 38 27	8♌41'58	22♍0	4♍3	23♌43	11♍19	19°R31	24♌37	1♌58	10°R30	14♌12	24°R19	24♌51	13♌58	18°R18	T 1
W 2	20 42 24	9°39'23	4♌18	5°23	24°45	11°57	19♌29	24°40	2°1	10°Y30	14°12	24♌17	24°47	14°5	18♌16	W 2
T 3	20 46 20	10°36'49	16°55	6°40	25°48	12°35	19°26	24°44	2°4	10°29	14°12	24°12	24°44	14°11	18°14	T 3
F 4	20 50 17	11°34'17	29°56	7°56	26°51	13°12	19°24	24°47	2°7	10°28	14°12	24°5	24°41	14°18	18°12	F 4
S 5	20 54 13	12°31'45	13♌21	9°9	27°54	13°50	19°22	24°51	2°10	10°28	14°13	23°56	24°38	14°25	18°9	S 5
S 6	20 58 10	13°29'13	27°11	10°20	28°57	14°27	19°20	24°55	2°13	10°27	14°13	23°45	24°35	14°31	18°7	S 6
M 7	21 2 7	14°26'43	11♌23	11°29	0♌1	15°5	19°18	24°58	2°16	10°26	14°13	23°35	24°31	14°38	18°5	M 7
T 8	21 6 3	15°24'14	25°50	12°35	1°5	15°43	19°16	25°2	2°19	10°25	14°13	23°25	24°28	14°45	18°3	T 8
W 9	21 10 0	16°21'46	10♌27	13°39	2°9	16°21	19°15	25°6	2°21	10°25	14°13	23°17	24°25	14°51	18°0	W 9
T 10	21 13 56	17°19'19	25°7	14°41	3°13	16°58	19°14	25°10	2°24	10°24	14°13	23°12	24°22	14°58	17°58	T 10
F 11	21 17 53	18°16'53	9♌42	15°39	4°18	17°36	19°13	25°14	2°27	10°23	14°13	23°9	24°19	15°5	17°56	F 11
S 12	21 21 49	19°14'29	24°8	16°35	5°23	18°14	19°12	25°19	2°30	10°22	14°13	23°D 9	24°16	15°11	17°53	S 12
S 13	21 25 46	20°12'07	8♌23	17°28	6°28	18°52	19°11	25°23	2°32	10°21	14°13	23°9	24°12	15°18	17°51	S 13
M14	21 29 42	21°9'46	22°24	18°18	7°33	19°30	19°11	25°27	2°35	10°20	14°R13	23°R 9	24°9	15°25	17°49	M14
T 15	21 33 39	22°7'27	6♌12	19°5	8°39	20°8	19°10	25°32	2°38	10°19	14°13	23°9	24°6	15°31	17°46	T 15
W16	21 37 36	23°5'09	19°46	19°48	9°45	20°46	19°D10	25°36	2°40	10°18	14°13	23°6	24°3	15°38	17°44	W16
T 17	21 41 32	24°2'53	3♌7	20°28	10°51	21°24	19°10	25°41	2°43	10°17	14°13	23°0	24°0	15°44	17°41	T 17
F 18	21 45 29	25°0'39	16°15	21°3	11°57	22°2	19°11	25°45	2°45	10°16	14°13	22°53	23°57	15°51	17°39	F 18
S 19	21 49 25	25°58'26	29°12	21°35	13°3	22°41	19°11	25°50	2°48	10°15	14°13	22°44	23°53	15°58	17°36	S 19
S 20	21 53 22	26°56'14	11♌55	22°2	14°10	23°19	19°12	25°55	2°50	10°14	14°13	22°34	23°50	16°4	17°33	S 20
M21	21 57 18	27°54'05	24°26	22°25	15°16	23°57	19°13	26°0	2°53	10°13	14°13	22°24	23°47	16°11	17°31	M21
T 22	22 1 15	28°51'56	6♌45	22°43	16°23	24°35	19°14	26°5	2°55	10°12	14°13	22°15	23°44	16°18	17°28	T 22
W23	22 5 11	29°49'49	18°52	22°56	17°30	25°14	19°15	26°10	2°57	10°11	14°13	22°8	23°41	16°24	17°25	W23
T 24	22 9 8	0♌47'43	0♌50	23°4	18°37	25°52	19°16	26°15	3°0	10°10	14°12	22°3	23°37	16°31	17°23	T 24
F 25	22 13 4	1°45'39	12°41	23°R 6	19°45	26°31	19°18	26°20	3°2	10°8	14°12	22°1	23°34	16°38	17°20	F 25
S 26	22 17 1	2°43'36	24°28	23°2	20°52	27°9	19°19	26°25	3°4	10°7	14°12	22°D 1	23°31	16°44	17°17	S 26
S 27	22 20 58	3°41'35	6♌15	22°52	22°0	27°47	19°21	26°30	3°6	10°6	14°12	22°1	23°28	16°51	17°15	S 27
M28	22 24 54	4°39'34	18°6	22°37	23°8	28°26	19°24	26°36	3°8	10°5	14°11	22°3	23°25	16°58	17°12	M28
T 29	22 28 51	5°37'36	0♌7	22°15	24°16	29°5	19°26	26°41	3°11	10°3	14°11	22°R 4	23°22	17°4	17°9	T 29
W30	22 32 47	6°35'38	12°23	21°47	25°24	29°43	19°28	26°46	3°13	10°2	14°11	22°4	23°18	17°11	17°6	W30
T 31	22 36 44	7♌33'42	24♌59	21♌13	26♌32	0♌22	19♌31	26♌52	3♌15	10°Y 1	14♌10	22♌2	23♌15	17♌17	17♌4	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
T 1	18n 6	16s 0	2n22	9n59	0s 3	20n27	2s52	8n11	0n56	22s45	0n18	7s17	2n25	23n39	0n13	2n44	1s33	1n 7	15s39	9s26	9s38	6s25	0s 4	4n58					
W 2	17 51	17 49	3 16	9 21	0 12	20 32	2 49	7 57	0 56	22 45	0 17	7 19	2 25	23 39	0 13	2 44	1 33	1 7	15 40	9 25	9 36	6 26	0 4	4 58					
T 3	17 35	18 48	4 2	8 44	0 22	20 38	2 46	7 42	0 55	22 45	0 17	7 20	2 25	23 39	0 13	2 44	1 33	1 7	15 40	9 23	9 35	6 28	0 5	4 58					
F 4	17 19	18 51	4 37	8 7	0 32	20 43	2 42	7 27	0 55	22 45	0 17	7 22	2 24	23 39	0 13	2 43	1 33	1 7	15 40	9 21	9 34	6 30	0 6	4 58					
S 5	17 3	17 51	4 58	7 30	0 42	20 47	2 39	7 12	0 54	22 45	0 17	7 23	2 24	23 39	0 13	2 43	1 33	1 6	15 41	9 17	9 33	6 32	0 7	4 58					
S 6	16 47	15 48	5 2	6 54	0 52	20 51	2 36	6 57	0 54	22 45	0 17	7 25	2 24	23 39	0 13	2 43	1 33	1 6	15 41	9 14	9 32	6 34	0 7	4 58					
M 7	16 30	12 45	4 48	6 18	1 2	20 55	2 32	6 42	0 53	22 45	0 17	7 27	2 24	23 39	0 13	2 43	1 33	1 6	15 41	9 10	9 31	6 35	0 8	4 58					
T 8	16 14	8 54	4 16	5 43	1 13	20 58	2 29	6 27	0 53	22 45	0 16	7 28	2 23	23 39	0 13	2 42	1 33	1 6	15 42	9 6	9 29	6 37	0 9	4 58					
W 9	15 57	4 28	3 27	5 9	1 24	21 1	2 25	6 12	0 52	22 45	0 16	7 30	2 23	23 39	0 13	2 42	1 33	1 5	15 42	9 3	9 28	6 39	0 10	4 59					
T 10	15 39	0n15	2 24	4 35	1 34	21 3	2 22	5 56	0 52	22 45	0 16	7 32	2 23	23 39	0 13	2 41	1 33	1 5	15 42	9 1	9 27	6 41	0 11	4 59					
F 11	15 22	4 56	1 11	4 3	1 45	21 5	2 18	5 41	0 51	22 45	0 16	7 33	2 23	23 39	0 13	2 41	1 33	1 5	15 42	9 0	9 26	6 42	0 11	4 59					
S 12	15 4	9 17	0s 5	3 31	1 56	21 6	2 14	5 26	0 51	22 45	0 16	7 35	2 23	23 39	0 13	2 41	1 33	1 5	15 43	9 0	9 25	6 44	0 12	4 59					
S 13	14 46	13 2	1 21	3 0	2 7	21 7	2 11	5 10	0 50	22 45	0 16	7 37	2 22	23 39	0 13	2 40	1 33	1 4	15 43	9 0	9 24	6 46	0 13	4 59					
M14	14 27	15 58	2 30	2 31	2 18	21 8	2 7	4 55	0 50	22 45	0 15	7 39	2 22	23 39	0 13	2 40	1 33	1 4	15 43	9 0	9 22	6 48	0 14	4 59					
T 15	14 9	17 55	3 29	2 3	2 28	21 7	2 3	4 40	0 49	22 46	0 15	7 40	2 22	23 39	0 13	2 39	1 33	1 4	15 44	9 0	9 21	6 49	0 15	4 59					
W16	13 50	18 49	4 16	1 36	2 39	21 7	1 59	4 24	0 48	22 46	0 15	7 42	2 22	23 39	0 13	2 39	1 33	1 3	15 44	8 59	9 20	6 51	0 16	4 59					
T 17	13 31	18 38	4 47	1 11	2 50	21 6	1 56	4 9	0 48	22 46	0 15	7 44	2 22	23 39	0 13	2 39	1 33	1 3	15 44	8 57	9 19	6 53	0 17	4 59					
F 18	13 12	17 27	5 3	0 47	3 0	21 4	1 52	3 53	0 47	22 46	0 15	7 46	2 21	23 39	0 13	2 38	1 34	1 3	15 45	8 54	9 18	6 55	0 18	4 59					
S 19	12 52	15 23	5 3	0 25	3 10	21 2	1 48	3 38	0 47	22 46	0 15	7 48	2 21	23 39	0 13	2 38	1 34	1 3	15 45	8 51	9 17	6 56	0 19	4 59					
S 20	12 32	12 37	4 48	0 5	3 20	20 59	1 44	3 22	0 46	22 46	0 14	7 50	2 21	23 39	0 13	2 37	1 34	1 2	15 45	8 47	9 15	6 58	0 20	4 59					
M21	12 13	9 18	4 19	0s12	3 30	20 55	1 40	3 6	0 46	22 47	0 14	7 52	2 21	23 39	0 13	2 37	1 34	1 2	15 45	8 43	9 14	7 0	0 20	4 59					
T 22	11 53	5 39	3 39	0 28	3 39	20 52	1 36	2 51	0 45	22 47	0 14	7 54	2 20	23 39	0 13	2 36	1 34	1 2	15 46	8 40	9 13	7 2	0 21	4 59					
W23	11 32	1 49	2 49	0 41	3 48	20 47	1 32	2 35	0 45	22 47	0 14	7 56	2 20	23 39	0 13	2 36	1 34	1 1	15 46	8 38	9 12	7 3	0 22	4 59					
T 24	11 12	2s 3	1 52	0 51	3 56	20 42	1 28	2 19	0 44	22 47	0 14	7 58	2 20	23 38	0 13	2 35	1 34	1 1	15 46	8 36	9 11	7 5	0 24	4 59					
F 25	10 51	5 47	0 50	0 59	4 4	20 37	1 24	2 3	0 44	22 48	0 14	8 0	2 20	23 38	0 13	2 35	1 34	1 1	15 47	8 35	9 10	7 7	0 25	4 59					
S 26	10 31	9 17	0n13	1 4	4 10	20 31	1 20	1 48	0 43	22 48	0 13	8 2	2 20	23 38	0 13	2 34	1 34	1 0	15 47	8 35	9 8	7 9	0 26	4 59					
S 27	10 10	12 25	1 16	1 5	4 16	20 24	1 16	1 32	0 43	22 48	0 13	8 4	2 20	23 38	0 13	2 34	1 34	1 0	15 47	8 35	9 7	7 10	0 27	4 59					
M28	9 48	15 3	2 17	1 3	4 20	20 17	1 12	1 16	0 42	22 49	0 13	8 6	2 19	23 38	0 13	2 33	1 34	1 0	15 47	8 36	9 6	7 12	0 28	4 59					
T 29	9 27	17 4	3 12	0 58	4 24	20 9	1 8	1 0	0 42	22 49	0 13	8 8	2 19	23 38	0 13	2 33	1 34	0 59	15 48	8 36	9 5	7 14	0 29	4 59					
W30	9 6	18 20	3 59	0 49	4 26	20 1	1 4	0 44	0 41	22 49	0 13	8 10	2 19	23 38	0 13	2 32	1 34	0 59	15 48	8 36	9 4	7 16	0 30	4 59					
T 31	8n44	18s45	4n37	0s36	4s27	19n52	1s 0	0n28	0n40	22s50	0n13	8s12	2n19	23n38	0n13	2n32	1s34	0n58	15s48	8s35	9s 2	7s17	0s31	4n59					

ASTRODIENST EPHEMERIS for the year 1865

geocentric

SEPTEMBER 1865

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 40 40	8 ^h 31'48"	7 ^h 35'59"	20°R33	27 ^h 34'40"	1 ^h 1 ^m 1	19 ^h 34'34"	26 ^h 58'58"	3 ^h 31'17"	9°R59	14°R10	21°R59	23 ^h 12'12"	17 ^h 24'24"	17°R 1	F 1
S 2	22 44 37	9°29'55"	21°26'	19 ^h 48'	28°49'	1°39'	19°37'	27° 3'	3°18'	9°Y58	14°R10	21 ^h 54'	23° 9'	17°31'	16°K58	S 2
S 3	22 48 33	10°28'03"	5 ^h 20'	18°58'	29°58'	2°18'	19°40'	27° 9'	3°20'	9°57'	14° 9'	21°48'	23° 6'	17°37'	16°55'	S 3
M 4	22 52 30	11°26'13"	19°40'	18° 5'	1 ^h 1 ^m 7	2°57'	19°44'	27°15'	3°22'	9°55'	14° 9'	21°41'	23° 2'	17°44'	16°52'	M 4
T 5	22 56 27	12°24'24"	4 ^h 22'	17° 8'	2°16'	3°36'	19°47'	27°20'	3°24'	9°54'	14° 8'	21°36'	22°59'	17°51'	16°50'	T 5
W 6	23 0 23	13°22'38"	19°17'	16° 9'	3°25'	4°15'	19°51'	27°26'	3°26'	9°52'	14° 8'	21°31'	22°56'	17°57'	16°47'	W 6
T 7	23 4 20	14°20'52"	4 ^h Y18'	15° 9'	4°34'	4°54'	19°55'	27°32'	3°27'	9°51'	14° 7'	21°28'	22°53'	18° 4'	16°44'	T 7
F 8	23 8 16	15°19'09"	19°16'	14° 9'	5°43'	5°33'	19°59'	27°38'	3°29'	9°49'	14° 7'	21°D27'	22°50'	18°11'	16°41'	F 8
S 9	23 12 13	16°17'28"	4 ^h 3'	13°12'	6°53'	6°12'	20° 3'	27°44'	3°31'	9°48'	14° 6'	21°28'	22°47'	18°17'	16°38'	S 9
S 10	23 16 9	17°15'49"	18°34'	12°17'	8° 3'	6°51'	20° 7'	27°50'	3°32'	9°46'	14° 6'	21°29'	22°43'	18°24'	16°35'	S 10
M 11	23 20 6	18°14'12"	2 ^h II45'	11°27'	9°12'	7°30'	20°12'	27°56'	3°34'	9°45'	14° 5'	21°30'	22°40'	18°31'	16°33'	M 11
T 12	23 24 2	19°12'38"	16°36'	10°43'	10°22'	8° 9'	20°17'	28° 2'	3°35'	9°43'	14° 5'	21°R31'	22°37'	18°37'	16°30'	T 12
W 13	23 27 59	20°11'05"	0 ^h 36' 6	10° 6'	11°32'	8°49'	20°22'	28° 8'	3°37'	9°42'	14° 4'	21°31'	22°34'	18°44'	16°27'	W 13
T 14	23 31 56	21° 9'35"	13°17'	9°37'	12°43'	9°28'	20°27'	28°15'	3°38'	9°40'	14° 4'	21°29'	22°31'	18°51'	16°24'	T 14
F 15	23 35 52	22° 8'07"	26°11'	9°16'	13°53'	10° 7'	20°32'	28°21'	3°39'	9°39'	14° 3'	21°26'	22°28'	18°57'	16°21'	F 15
S 16	23 39 49	23° 6'41"	8 ^h 12'51"	9° 5'	15° 3'	10°47'	20°37'	28°27'	3°40'	9°37'	14° 2'	21°22'	22°24'	19° 4'	16°18'	S 16
S 17	23 43 45	24° 5'17"	21°17'	9°D 2	16°14'	11°26'	20°43'	28°34'	3°42'	9°35'	14° 2'	21°17'	22°21'	19°10'	16°16'	S 17
M 18	23 47 42	25° 3'55"	3 ^h 12'32"	9°10'	17°24'	12° 5'	20°49'	28°40'	3°43'	9°34'	14° 1'	21°13'	22°18'	19°17'	16°13'	M 18
T 19	23 51 38	26° 2'35"	15°37'	9°27'	18°35'	12°45'	20°55'	28°47'	3°44'	9°32'	14° 0'	21° 9'	22°15'	19°24'	16°10'	T 19
W 20	23 55 35	27° 1'17"	27°35'	9°54'	19°46'	13°25'	21° 1'	28°53'	3°45'	9°31'	14° 0'	21° 6'	22°12'	19°30'	16° 7'	W 20
T 21	23 59 31	28° 0'01"	9 ^h 12'27"	10°30'	20°57'	14° 4'	21° 7'	29° 0'	3°46'	9°29'	13°59'	21° 4'	22° 8'	19°37'	16° 4'	T 21
F 22	0 3 28	28°58'47"	21°14'	11°15'	22° 8'	14°44'	21°13'	29° 6'	3°47'	9°27'	13°58'	21°D 3	22° 5'	19°44'	16° 2'	F 22
S 23	0 7 24	29°57'35"	3 ^h 11' 0	12° 8'	23°19'	15°23'	21°20'	29°13'	3°48'	9°26'	13°57'	21° 4'	22° 2'	19°50'	15°59'	S 23
S 24	0 11 21	0 ^h 15'56'24"	14°48'	13° 8'	24°31'	16° 3'	21°26'	29°20'	3°49'	9°24'	13°57'	21° 5'	21°59'	19°57'	15°56'	S 24
M 25	0 15 18	1°55'16"	26°41'	14°16'	25°42'	16°43'	21°33'	29°26'	3°50'	9°22'	13°56'	21° 7'	21°56'	20° 4'	15°54'	M 25
T 26	0 19 14	2°54'10"	8 ^h 14'42"	15°29'	26°54'	17°23'	21°40'	29°33'	3°50'	9°21'	13°55'	21° 8'	21°53'	20°10'	15°51'	T 26
W 27	0 23 11	3°53'05"	20°58'	16°49'	28° 5'	18° 3'	21°47'	29°40'	3°51'	9°19'	13°54'	21° 9'	21°49'	20°17'	15°48'	W 27
T 28	0 27 7	4°52'02"	3 ^h 30'	18°13'	29°17'	18°43'	21°54'	29°46'	3°52'	9°17'	13°53'	21°R10'	21°46'	20°24'	15°46'	T 28
F 29	0 31 4	5°51'01"	16°25'	19°42'	0 ^h 12'29"	19°23'	22° 2'	29°53'	3°52'	9°16'	13°53'	21°10'	21°43'	20°30'	15°43'	F 29
S 30	0 35 0	6 ^h 15'0'01"	29 ^h 34'5"	21 ^h 14'	1 ^h 40'	20 ^h 3'	22 ^h 9'	0 ^h 11' 0	3 ^h 53'	9°Y14'	13°R52'	21 ^h 5'	21 ^h 40'	20 ^h 37'	15°K40'	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	8n23	18s12	5n 1	0s20	4s26	19n43	0s56	0n13	0n40	22s50	0n13	8s14	2n19	23n38	0n13	2n31	1s34	0n58	15s49	8s34	9s 1	7s19	0s32	4n59			
S 2	8 1	16 38	5 10	0n 0	4 23	19 33	0 52	0s 3	0 39	22 51	0 12	8 17	2 18	23 38	0 13	2 30	1 34	0 58	15 49	8 32	9 0	7 21	0 33	4 59			
S 3	7 39	14 4	5 2	0 24	4 19	19 23	0 48	0 19	0 39	22 51	0 12	8 19	2 18	23 38	0 13	2 30	1 34	0 57	15 49	8 30	8 59	7 23	0 34	4 59			
M 4	7 17	10 35	4 34	0 51	4 12	19 12	0 45	0 35	0 38	22 51	0 12	8 21	2 18	23 38	0 13	2 29	1 34	0 57	15 49	8 28	8 58	7 24	0 35	4 59			
T 5	6 55	6 22	3 48	1 21	4 4	19 1	0 41	0 51	0 38	22 52	0 12	8 23	2 18	23 38	0 13	2 29	1 34	0 57	15 50	8 25	8 57	7 26	0 36	4 59			
W 6	6 32	1 41	2 46	1 53	3 54	18 49	0 37	1 7	0 37	22 52	0 12	8 25	2 18	23 38	0 14	2 28	1 34	0 56	15 50	8 24	8 55	7 28	0 38	4 59			
T 7	6 10	3n 7	1 32	2 27	3 41	18 36	0 33	1 23	0 37	22 53	0 12	8 28	2 18	23 38	0 14	2 27	1 34	0 56	15 50	8 23	8 54	7 29	0 39	4 59			
F 8	5 47	7 44	0 12	3 3	3 27	18 23	0 29	1 39	0 36	22 53	0 11	8 30	2 17	23 38	0 14	2 27	1 34	0 55	15 50	8 22	8 53	7 31	0 40	4 59			
S 9	5 25	11 48	1s 8	3 39	3 12	18 9	0 25	1 55	0 36	22 54	0 11	8 32	2 17	23 38	0 14	2 26	1 34	0 55	15 51	8 22	8 52	7 33	0 41	4 59			
S 10	5 2	15 4	2 23	4 16	2 55	17 55	0 21	2 11	0 35	22 54	0 11	8 34	2 17	23 38	0 14	2 26	1 34	0 55	15 51	8 23	8 51	7 35	0 42	4 59			
M11	4 39	17 20	3 27	4 51	2 37	17 41	0 18	2 27	0 35	22 55	0 11	8 37	2 17	23 38	0 14	2 25	1 34	0 54	15 51	8 23	8 49	7 36	0 43	4 59			
T 12	4 16	18 31	4 17	5 25	2 18	17 26	0 14	2 43	0 34	22 55	0 11	8 39	2 17	23 38	0 14	2 24	1 34	0 54	15 51	8 24	8 48	7 38	0 45	4 59			
W13	3 53	18 35	4 52	5 57	1 59	17 10	0 10	2 59	0 33	22 56	0 11	8 41	2 17	23 38	0 14	2 24	1 34	0 53	15 52	8 24	8 47	7 40	0 46	4 59			
T 14	3 30	17 39	5 10	6 27	1 39	16 54	0 7	3 15	0 33	22 56	0 11	8 44	2 17	23 38	0 14	2 23	1 34	0 53	15 52	8 23	8 46	7 41	0 47	4 59			
F 15	3 7	15 49	5 12	6 53	1 19	16 37	0 3	3 31	0 32	22 57	0 10	8 46	2 16	23 38	0 14	2 23	1 34	0 53	15 52	8 22	8 45	7 43	0 48	4 59			
S 16	2 44	13 15	4 59	7 15	1 0	16 20	0n 1	3 47	0 32	22 57	0 10	8 49	2 16	23 38	0 14	2 22	1 35	0 52	15 52	8 20	8 44	7 45	0 49	4 58			
S 17	2 21	10 7	4 32	7 33	0 41	16 3	0 4	4 3	0 31	22 58	0 10	8 51	2 16	23 38	0 14	2 21	1 35	0 52	15 53	8 18	8 42	7 47	0 50	4 58			
M18	1 58	6 36	3 52	7 48	0 22	15 45	0 8	4 19	0 31	22 58	0 10	8 53	2 16	23 38	0 14	2 21	1 35	0 51	15 53	8 17	8 41	7 48	0 52	4 58			
T 19	1 34	2 52	3 3	7 57	0 5	15 26	0 11	4 35	0 30	22 59	0 10	8 56	2 16	23 38	0 14	2 20	1 35	0 51	15 53	8 15	8 40	7 50	0 53	4 58			
W20	1 11	0s58	2 6	8 2	0n12	15 8	0 15	4 50	0 30	22 59	0 10	8 58	2 16	23 38	0 14	2 19	1 35	0 51	15 53	8 14	8 39	7 52	0 54	4 58			
T 21	0 48	4 43	1 4	8 3	0 27	14 48	0 18	5 6	0 29	23 0	0 10	9 1	2 16	23 38	0 14	2 19	1 35	0 50	15 54	8 14	8 38	7 53	0 55	4 58			
F 22	0 24	8 16	0n 1	7 59	0 41	14 28	0 21	5 22	0 28	23 0	0 9	9 3	2 16	23 38	0 14	2 18	1 35	0 50	15 54	8 13	8 36	7 55	0 56	4 58			
S 23	0 1	11 30	1 6	7 51	0 54	14 8	0 24	5 38	0 28	23 1	0 9	9 5	2 15	23 38	0 14	2 17	1 35	0 49	15 54	8 14	8 35	7 57	0 57	4 58			
S 24	0s22	14 15	2 8	7 38	1 5	13 48	0 28	5 54	0 27	23 2	0 9	9 8	2 15	23 38	0 14	2 17	1 35	0 49	15 54	8 14	8 34	7 58	0 59	4 57			
M25	0 46	16 26	3 5	7 22	1 16	13 27	0 31	6 10	0 27	23 2	0 9	9 10	2 15	23 38	0 14	2 16	1 35	0 49	15 54	8 15	8 33	8 0	1 0	4 57			
T 26	1 9	17 55	3 54	7 1	1 25	13 5	0 34	6 25	0 26	23 3	0 9	9 13	2 15	23 38	0 14	2 15	1 35	0 48	15 55	8 15	8 32	8 2	1 1	4 57			
W27	1 33	18 35	4 34	6 38	1 32	12 43	0 37	6 41	0 26	23 3	0 9	9 15	2 15	23 38	0 14	2 15	1 35	0 48	15 55	8 16	8 31	8 4	1 2	4 57			
T 28	1 56	18 22	5 2	6 11	1 39	12 21	0 40	6 57	0 25	23 4	0 9	9 18	2 15	23 38	0 14	2 14	1 35	0 47	15 55	8 16	8 29	8 5	1 3	4 57			
F 29	2 19	17 13	5 16	5 41	1 44	11 59	0 43	7 13	0 25	23 4	0 8	9 20	2 15	23 38	0 14	2 13	1 35	0 47	15 55	8 16	8 28	8 7	1 5	4 57			
S 30	2s43	15s 6	5n14	5n 8	1n48	11n36	0n46	7s28	0n24	23s 5	0n 8	9s23	2n15	23n38	0n14	2n13	1s35	0n47	15s55	8s15	8s27	8s 9	1s 6	4n57			

ASTRODIENST EPHEMERIS for the year 1865

geocentric

OCTOBER 1865

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 57	7♂49°03	13♂33	22♂50	2♂52	20♂43	22♂17	0♂7	3♂53	9♂12	13♂51	21♂7	21♂37	20♂43	15♂38	S 1
M 2	0 42 53	8°48'07	27°48	24°28	4° 4	21°23	22°25	0°14	3°54	9°11	13♂50	21♂6	21°34	20°50	15♂35	M 2
T 3	0 46 50	9°47'13	12♂28	26° 8	5°16	22° 3	22°33	0°21	3°54	9° 9	13°49	21° 4	21°30	20°57	15°33	T 3
W 4	0 50 47	10°46'21	27°27	27°50	6°29	22°43	22°41	0°28	3°54	9° 7	13°48	21° 3	21°27	21° 3	15°30	W 4
T 5	0 54 43	11°45'30	12♂38	29°33	7°41	23°23	22°49	0°35	3°55	9° 6	13°47	21° 3	21°24	21°10	15°28	T 5
F 6	0 58 40	12°44'42	27°51	1♂17	8°53	24° 4	22°57	0°42	3°55	9° 4	13°46	21°D 3	21°21	21°17	15°25	F 6
S 7	1 2 36	13°43'56	12♂55	3° 2	10° 6	24°44	23° 6	0°49	3°55	9° 2	13°45	21° 3	21°18	21°23	15°23	S 7
S 8	1 6 33	14°43'12	27°45	4°47	11°18	25°24	23°14	0°56	3°55	9° 1	13°44	21° 3	21°14	21°30	15°20	S 8
M 9	1 10 29	15°42'31	12♂12	6°32	12°31	26° 5	23°23	1° 3	3°55	8°59	13°43	21° 4	21°11	21°37	15°18	M 9
T 10	1 14 26	16°41'51	26°14	8°17	13°44	26°45	23°32	1°10	3°R55	8°57	13°42	21° 4	21° 8	21°43	15°16	T 10
W11	1 18 22	17°41'14	9♂50	10° 3	14°57	27°26	23°41	1°17	3°55	8°56	13°41	21° 5	21° 5	21°50	15°14	W11
T 12	1 22 19	18°40'40	23° 1	11°48	16° 9	28° 6	23°50	1°24	3°55	8°54	13°40	21°R 5	21° 2	21°57	15°11	T 12
F 13	1 26 16	19°40'08	5♂51	13°32	17°22	28°47	23°59	1°31	3°55	8°53	13°39	21° 5	20°59	22° 3	15° 9	F 13
S 14	1 30 12	20°39'38	18°21	15°17	18°35	29°28	24° 8	1°39	3°55	8°51	13°38	21°D 5	20°55	22°10	15° 7	S 14
S 15	1 34 9	21°39'10	0♂37	17° 1	19°49	0♂8	24°18	1°46	3°55	8°49	13°37	21° 5	20°52	22°16	15° 5	S 15
M16	1 38 5	22°38'44	12°41	18°44	21° 2	0°49	24°27	1°53	3°54	8°48	13°36	21° 5	20°49	22°23	15° 3	M16
T 17	1 42 2	23°38'21	24°36	20°27	22°15	1°30	24°37	2° 0	3°54	8°46	13°35	21° 5	20°46	22°30	15° 1	T 17
W18	1 45 58	24°38'00	6♂26	22° 9	23°28	2°11	24°47	2° 7	3°53	8°44	13°34	21° 5	20°43	22°36	14°59	W18
T 19	1 49 55	25°37'41	18♂14	23°51	24°42	2°52	24°57	2°15	3°53	8°43	13°33	21°R 5	20°39	22°43	14°57	T 19
F 20	1 53 51	26°37'24	0♂1	25°32	25°55	3°33	25° 7	2°22	3°52	8°41	13°32	21° 5	20°36	22°50	14°55	F 20
S 21	1 57 48	27°37'09	11°50	27°13	27° 9	4°14	25°17	2°29	3°52	8°40	13°31	21° 5	20°33	22°56	14°53	S 21
S 22	2 1 45	28°36'56	23°43	28°53	28°22	4°55	25°27	2°36	3°51	8°38	13°30	21° 4	20°30	23° 3	14°51	S 22
M23	2 5 41	29°36'45	5♂42	0♂32	29°36	5°36	25°37	2°44	3°51	8°37	13°29	21° 3	20°27	23°10	14°49	M23
T 24	2 9 38	0♂36°35	17°49	2°11	0♂50	6°17	25°48	2°51	3°50	8°35	13°28	21° 2	20°24	23°16	14°47	T 24
W25	2 13 34	1°36'28	0♂9	3°50	2° 3	6°58	25°58	2°58	3°49	8°34	13°27	21° 0	20°20	23°23	14°46	W25
T 26	2 17 31	2°36'22	12°43	5°27	3°17	7°39	26° 9	3° 5	3°48	8°32	13°26	20°59	20°17	23°30	14°44	T 26
F 27	2 21 27	3°36'18	25°35	7° 5	4°31	8°21	26°20	3°13	3°47	8°31	13°25	20°58	20°14	23°36	14°42	F 27
S 28	2 25 24	4°36'15	8♂48	8°41	5°45	9° 2	26°30	3°20	3°46	8°29	13°23	20°D58	20°11	23°43	14°41	S 28
S 29	2 29 20	5°36'14	22°25	10°18	6°59	9°44	26°41	3°27	3°46	8°28	13°22	20°59	20° 8	23°49	14°39	S 29
M30	2 33 17	6°36'15	6♂26	11°54	8°13	10°25	26°52	3°34	3°44	8°26	13°21	21° 0	20° 5	23°56	14°38	M30
T 31	2 37 13	7♂36°17	20♂51	13♂29	9♂27	11♂6	27♂3	3♂42	3♂43	8°Y25	13♂20	21♂1	20♂1	24♂3	14♂36	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	3s 6	12s 5	4n33	4n33	1n52	11n13	0n49	7s44	0n23	23s 6	0n 8	9s25	2n15	23n38	0n14	2n12	1s35
M 2	3 30	8 15	4 15	3 56	1 54	10 49	0 51	7 59	0 23	23 6	0 8	9 28	2 15	23 38	0 14	2 11	1 35
T 3	3 53	3 50	3 18	3 18	1 55	10 25	0 54	8 15	0 22	23 7	0 8	9 30	2 14	23 38	0 14	2 11	1 35
W 4	4 16	0n56	2 7	2 38	1 55	10 1	0 57	8 30	0 22	23 7	0 8	9 33	2 14	23 38	0 14	2 10	1 35
T 5	4 39	5 43	0 47	1 56	1 55	9 36	0 59	8 46	0 21	23 8	0 8	9 35	2 14	23 38	0 14	2 9	1 35
F 6	5 2	10 8	0s38	1 14	1 54	9 12	1 1	9 1	0 21	23 8	0 8	9 38	2 14	23 38	0 14	2 9	1 35
S 7	5 25	13 50	1 59	0 31	1 52	8 46	1 4	9 16	0 20	23 9	0 7	9 40	2 14	23 38	0 14	2 8	1 35
S 8	5 48	16 35	3 10	0s13	1 50	8 21	1 6	9 32	0 19	23 10	0 7	9 43	2 14	23 38	0 14	2 7	1 35
M 9	6 11	18 10	4 8	0 58	1 47	7 55	1 8	9 47	0 19	23 10	0 7	9 45	2 14	23 38	0 14	2 7	1 35
T 10	6 34	18 35	4 49	1 42	1 43	7 29	1 11	10 2	0 18	23 11	0 7	9 48	2 14	23 38	0 14	2 6	1 35
W11	6 57	17 54	5 12	2 27	1 39	7 3	1 13	10 17	0 18	23 11	0 7	9 50	2 14	23 38	0 14	2 5	1 35
T 12	7 19	16 16	5 18	3 12	1 35	6 37	1 15	10 32	0 17	23 12	0 7	9 53	2 14	23 38	0 14	2 5	1 35
F 13	7 42	13 51	5 8	3 57	1 30	6 10	1 17	10 47	0 17	23 12	0 7	9 55	2 14	23 38	0 14	2 4	1 35
S 14	8 4	10 51	4 43	4 42	1 26	5 43	1 19	11 2	0 16	23 13	0 7	9 58	2 14	23 38	0 14	2 4	1 35
S 15	8 27	7 26	4 6	5 27	1 20	5 16	1 20	11 17	0 15	23 13	0 6	10 0	2 14	23 38	0 14	2 3	1 35
M16	8 49	3 45	3 18	5 12	1 15	4 49	1 22	11 32	0 15	23 14	0 6	10 3	2 14	23 38	0 14	2 2	1 35
T 17	9 11	0s 2	2 22	6 56	1 9	4 22	1 24	11 47	0 14	23 14	0 6	10 5	2 14	23 38	0 14	2 2	1 35
W18	9 33	3 48	1 21	7 39	1 3	3 54	1 25	12 1	0 14	23 15	0 6	10 8	2 14	23 38	0 14	2 1	1 35
T 19	9 55	7 24	0 16	8 23	0 57	3 26	1 27	12 16	0 13	23 15	0 6	10 10	2 14	23 38	0 14	2 0	1 35
F 20	10 16	10 43	0n49	9 6	0 51	2 58	1 28	12 30	0 13	23 16	0 6	10 13	2 14	23 38	0 14	2 0	1 35
S 21	10 38	13 36	1 53	9 48	0 44	2 30	1 30	12 45	0 12	23 16	0 6	10 15	2 13	23 38	0 14	1 59	1 35
S 22	10 59	15 56	2 52	10 30	0 38	2 2	1 31	12 59	0 11	23 17	0 6	10 18	2 13	23 38	0 15	1 59	1 35
M23	11 21	17 36	3 43	11 11	0 31	1 34	1 32	13 14	0 11	23 17	0 6	10 20	2 13	23 38	0 15	1 58	1 35
T 24	11 42	18 29	4 26	11 51	0 25	1 6	1 33	13 28	0 10	23 18	0 5	10 23	2 13	23 38	0 15	1 57	1 35
W25	12 2	18 31	4 57	12 31	0 18	0 37	1 34	13 42	0 10	23 18	0 5	10 25	2 13	23 39	0 15	1 57	1 35
T 26	12 23	17 38	5 14	13 10	0 11	0 9	1 35	13 56	0 9	23 19	0 5	10 28	2 13	23 39	0 15	1 56	1 35
F 27	12 44	15 51	5 16	13 49	0 5	0s20	1 36	14 10	0 9	23 19	0 5	10 30	2 13	23 39	0 15	1 56	1 35
S 28	13 4	13 12	5 2	14 26	0s 2	0 48	1 37	14 24	0 8	23 20	0 5	10 32	2 13	23 39	0 15	1 55	1 35
S 29	13 24	9 47	4 31	15 3	0 9	1 17	1 38	14 37	0 7	23 20	0 5	10 35	2 13	23 39	0 15	1 55	1 35
M30	13 44	5 42	3 43	15 40	0 16	1 45	1 38	14 51	0 7	23 20	0 5	10 37	2 13	23 39	0 15	1 54	1 34
T 31	14s 3	1s11	2n40	16s15	0s22	2s14	1n39	15s 4	0n 6	23s21	0n 5	10s40	2n13	23n39	0n15	1n53	1s34

Julian Day Number = 2402510.5, Delta T = 7.60 sec
 Ecliptic obliquity = 23°27'16", Nutation = 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°51'56", Lahiri = 21°58'56"

ASTRODIENST EPHEMERIS for the year 1865

geocentric

NOVEMBER 1865

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 41 10	8♉36°21	5♊37	15♉4	10♉41	11♉48	27♊15	3♉49	3♊R42	8♊R23	13♊R19	21♉2	19♉58	24♉9	14♊R35	W 1
T 2	2 45 7	9°36'26	20°40	16°38	11°55	12°30	27°26	3°56	3♊41	8♊Y22	13♊18	21°R 3	19°55	24°16	14♊34	T 2
F 3	2 49 3	10°36'34	5♊51	18°12	13°9	13°11	27°37	4°3	3°40	8°21	13°17	21°2	19°52	24°23	14°33	F 3
S 4	2 53 0	11°36'43	21°1	19°46	14°24	13°53	27°49	4°10	3°39	8°19	13°16	21°1	19°49	24°29	14°31	S 4
S 5	2 56 56	12°36'54	5♊59	21°19	15°38	14°35	28°0	4°18	3°37	8°18	13°14	20°58	19°45	24°36	14°30	S 5
M 6	3 0 53	13°37'07	20°39	22°52	16°52	15°16	28°12	4°25	3°36	8°17	13°13	20°55	19°42	24°43	14°29	M 6
T 7	3 4 49	14°37'21	4♊54	24°24	18°7	15°58	28°23	4°32	3°35	8°15	13°12	20°52	19°39	24°49	14°28	T 7
W 8	3 8 46	15°37'38	18°40	25°57	19°21	16°40	28°35	4°39	3°33	8°14	13°11	20°49	19°36	24°56	14°27	W 8
T 9	3 12 42	16°37'57	1♊59	27°29	20°35	17°22	28°47	4°46	3°32	8°13	13°10	20°47	19°33	25°3	14°26	T 9
F 10	3 16 39	17°38'18	14°51	29°0	21°50	18°4	28°59	4°54	3°30	8°12	13°9	20°D46	19°30	25°9	14°25	F 10
S 11	3 20 36	18°38'41	27°21	0♊31	23°5	18°46	29°11	5°1	3°29	8°11	13°8	20°46	19°26	25°16	14°24	S 11
S 12	3 24 32	19°39'05	9♊33	2°2	24°19	19°28	29°23	5°8	3°27	8°9	13°7	20°47	19°23	25°22	14°24	S 12
M13	3 28 29	20°39'32	21°32	3°33	25°34	20°10	29°35	5°15	3°25	8°8	13°5	20°49	19°20	25°29	14°23	M13
T 14	3 32 25	21°40'00	3♊23	5°3	26°48	20°53	29°47	5°22	3°24	8°7	13°4	20°51	19°17	25°36	14°22	T 14
W15	3 36 22	22°40'30	15°9	6°33	28°3	21°35	29°59	5°29	3°22	8°6	13°3	20°R52	19°14	25°42	14°22	W15
T 16	3 40 18	23°41'02	26°56	8°2	29°18	22°17	0♊12	5°36	3°20	8°5	13°2	20°52	19°11	25°49	14°21	T 16
F 17	3 44 15	24°41'36	8♉45	9°31	0♉33	22°59	0°24	5°43	3°18	8°4	13°1	20°51	19°7	25°56	14°20	F 17
S 18	3 48 11	25°42'11	20°40	11°0	1°47	23°42	0°37	5°50	3°16	8°3	13°0	20°47	19°4	26°2	14°20	S 18
S 19	3 52 8	26°42'48	2♊42	12°29	3°2	24°24	0°49	5°57	3°14	8°2	12°59	20°42	19°1	26°9	14°20	S 19
M20	3 56 5	27°43'26	14°53	13°56	4°17	25°7	1°2	6°4	3°12	8°1	12°58	20°35	18°58	26°16	14°19	M20
T 21	4 0 1	28°44'06	27°15	15°24	5°32	25°49	1°15	6°11	3°11	8°0	12°57	20°28	18°55	26°22	14°19	T 21
W22	4 3 58	29°44'47	9♊47	16°50	6°47	26°32	1°27	6°18	3°8	7°59	12°56	20°21	18°51	26°29	14°19	W22
T 23	4 7 54	0♊45'29	22°31	18°17	8°2	27°15	1°40	6°25	3°6	7°58	12°55	20°15	18°48	26°36	14°19	T 23
F 24	4 11 51	1°46'13	5♉30	19°42	9°17	27°57	1°53	6°31	3°4	7°58	12°53	20°10	18°45	26°42	14°19	F 24
S 25	4 15 47	2°46'57	18°43	21°7	10°32	28°40	2°6	6°38	3°2	7°57	12°52	20°7	18°42	26°49	14°D19	S 25
S 26	4 19 44	3°47'42	2♊13	22°30	11°47	29°23	2°19	6°45	3°0	7°56	12°51	20°D 6	18°39	26°56	14°19	S 26
M27	4 23 40	4°48'28	16°2	23°53	13°2	0♊6	2°32	6°52	2°58	7°55	12°50	20°6	18°36	27°2	14°19	M27
T 28	4 27 37	5°49'16	0♊9	25°14	14°17	0°48	2°45	6°58	2°56	7°54	12°49	20°8	18°32	27°9	14°19	T 28
W29	4 31 34	6°50'04	14°34	26°34	15°32	1°31	2°58	7°5	2°54	7°54	12°48	20°R 9	18°29	27°15	14°19	W29
T 30	4 35 30	7♊50'53	29°Y15	27♊52	16♉47	2♊14	3♊11	7♉12	2♊51	7♊Y53	12♊47	20♉8	18♉26	27♉22	14♊19	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s23	3n32	1n24	16s50	0s29	2s43	1n39	15s18	0n 6	23s21	0n 4	10s42	2n13	23n39	0n15	1n53	1s34	0n35	15s58	8s13	7s49	9s 1	1s38	4n49	
T 2	14 42	8 6	0 2	17 23	0 36	3 11	1 40	15 31	0 5	23 21	0 4	10 45	2 13	23 39	0 15	1 52	1 34	0 34	15 58	8 13	7 48	9 3	1 39	4 45	
F 3	15 1	12 12	1s21	17 56	0 42	3 40	1 40	15 44	0 4	23 22	0 4	10 47	2 13	23 39	0 15	1 52	1 34	0 34	15 58	8 13	7 46	9 5	1 39	4 48	
S 4	15 20	15 29	2 38	18 28	0 49	4 8	1 40	15 57	0 4	23 22	0 4	10 50	2 13	23 39	0 15	1 51	1 34	0 34	15 58	8 12	7 45	9 6	1 40	4 48	
S 5	15 38	17 39	3 43	18 59	0 55	4 37	1 40	16 10	0 3	23 22	0 4	10 52	2 13	23 39	0 15	1 51	1 34	0 33	15 58	8 11	7 44	9 8	1 41	4 48	
M 6	15 56	18 36	4 32	19 29	1 1	5 5	1 40	16 23	0 3	23 23	0 4	10 54	2 13	23 39	0 15	1 50	1 34	0 33	15 58	8 10	7 43	9 10	1 41	4 47	
T 7	16 14	18 19	5 3	19 58	1 7	5 34	1 40	16 36	0 2	23 23	0 4	10 57	2 13	23 39	0 15	1 50	1 34	0 33	15 58	8 9	7 42	9 11	1 42	4 47	
W 8	16 32	16 57	5 15	20 26	1 13	6 2	1 40	16 48	0 1	23 23	0 4	10 59	2 13	23 39	0 15	1 49	1 34	0 32	15 58	8 8	7 40	9 13	1 43	4 47	
T 9	16 49	14 42	5 9	20 54	1 19	6 30	1 40	17 1	0 1	23 23	0 4	11 1	2 14	23 39	0 15	1 49	1 34	0 32	15 58	8 7	7 39	9 14	1 43	4 46	
F 10	17 6	11 48	4 48	21 20	1 25	6 58	1 40	17 13	0 0	23 24	0 4	11 4	2 14	23 39	0 15	1 49	1 34	0 32	15 58	8 7	7 38	9 16	1 44	4 46	
S 11	17 23	8 26	4 13	21 45	1 31	7 26	1 40	17 25	0s 0	23 24	0 3	11 6	2 14	23 39	0 15	1 48	1 34	0 32	15 58	8 7	7 37	9 18	1 45	4 46	
S 12	17 39	4 47	3 28	22 9	1 36	7 54	1 39	17 37	0 1	23 24	0 3	11 8	2 14	23 39	0 15	1 48	1 34	0 31	15 58	8 7	7 36	9 19	1 45	4 45	
M13	17 56	1 0	2 34	22 32	1 41	8 21	1 39	17 49	0 2	23 24	0 3	11 11	2 14	23 40	0 15	1 47	1 34	0 31	15 58	8 8	7 34	9 21	1 46	4 45	
T 14	18 12	2s47	1 35	22 54	1 46	8 49	1 38	18 1	0 2	23 24	0 3	11 13	2 14	23 40	0 15	1 47	1 34	0 31	15 58	8 9	7 33	9 22	1 46	4 45	
W15	18 27	6 27	0 31	23 14	1 51	9 16	1 38	18 13	0 3	23 24	0 3	11 15	2 14	23 40	0 15	1 46	1 34	0 31	15 58	8 9	7 32	9 24	1 47	4 44	
T 16	18 42	9 52	0n33	23 34	1 56	9 43	1 37	18 24	0 3	23 24	0 3	11 18	2 14	23 40	0 15	1 46	1 34	0 30	15 58	8 9	7 31	9 26	1 47	4 44	
F 17	18 57	12 54	1 36	23 52	2 0	10 10	1 36	18 36	0 4	23 24	0 3	11 20	2 14	23 40	0 15	1 46	1 34	0 30	15 58	8 8	7 30	9 27	1 48	4 44	
S 18	19 12	15 26	2 36	24 9	2 4	10 37	1 35	18 47	0 5	23 24	0 3	11 22	2 14	23 40	0 15	1 45	1 34	0 30	15 58	8 7	7 28	9 29	1 48	4 44	
S 19	19 26	17 18	3 29	24 25	2 8	11 3	1 34	18 58	0 5	23 25	0 3	11 24	2 14	23 40	0 15	1 45	1 34	0 30	15 58	8 5	7 27	9 30	1 49	4 43	
M20	19 40	18 25	4 13	24 40	2 11	11 29	1 34	19 9	0 6	23 25	0 2	11 27	2 14	23 40	0 15	1 45	1 34	0 30	15 57	8 3	7 26	9 32	1 49	4 43	
T 21	19 53	18 40	4 45	24 53	2 15	11 55	1 33	19 20	0 6	23 25	0 2	11 29	2 14	23 40	0 15	1 44	1 34	0 29	15 57	8 0	7 25	9 34	1 50	4 43	
W22	20 7	18 2	5 5	25 5	2 17	12 21	1 31	19 30	0 7	23 24	0 2	11 31	2 14	23 40	0 15	1 44	1 34	0 29	15 57	7 57	7 23	9 35	1 50	4 42	
T 23	20 19	16 28	5 10	25 16	2 20	12 46	1 30	19 41	0 8	23 24	0 2	11 33	2 14	23 40	0 15	1 44	1 34	0 29	15 57	7 55	7 22	9 37	1 50	4 42	
F 24	20 32	14 4	4 59	25 25	2 22	13 11	1 29	19 51	0 8	23 24	0 2	11 35	2 14	23 40	0 15	1 43	1 34	0 29	15 57	7 53	7 21	9 38	1 51	4 42	
S 25	20 44	10 54	4 33	25 33	2 24	13 36	1 28	20 1	0 9	23 24	0 2	11 37	2 14	23 40	0 15	1 43	1 34	0 29	15 57	7 52	7 20	9 40	1 51	4 41	
S 26	20 55	7 6	3 50	25 39	2 25	14 0	1 26	20 11	0 9	23 24	0 2	11 39	2 15	23 40	0 15	1 43	1 34	0 28	15 57	7 52	7 19	9 41	1 51	4 41	
M27	21 7	2 50	2 54	25 44	2 26	14 24	1 25	20 21	0 10	23 24	0 2	11 42	2 15	23 40	0 15	1 43	1 34	0 28	15 57	7 52	7 17	9 43	1 52	4 41	
T 28	21 17	1n41	1 46	25 48	2 26	14 48	1 24	20 30	0 11	23 24	0 2	11 44	2 15	23 41	0 15	1 42	1 34	0 28	15 56	7 52	7 16	9 45	1 52	4 40	
W29	21 28	6 13	0 30	25 50	2 26	15 11	1 22	20 40	0 11	23 24	0 2	11 46	2 15	23 41	0 15	1 42	1 34	0 28	15 56	7 53	7 15	9 46	1 52	4 40	
T 30	21s38	10n27	0s49	25s51	2s25	15s34	1n21	20s49	0s12	23s23	0n 1	11s48	2n15	23n41	0n15	1n42	1s33	0n28	15s56	7s53	7s14	9s48	1s52	4n40	

ASTRODIENST EPHEMERIS for the year 1865
geocentric

DECEMBER 1865

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 39 27	8°51'43	14♌ 7	29♊ 9	18♍ 2	2♊57	3♌24	7♍18	2°R49	7°R52	12°R46	20°R 6	18♌23	27♊29	14♌20	F 1
S 2	4 43 23	9°52'34	29° 3	0♌23	19°17	3°40	3°37	7°25	2♌47	7°Y52	12°R45	20♌ 2	18°20	27°35	14°20	S 2
S 3	4 47 20	10°53'26	13♏55	1°35	20°32	4°24	3°51	7°31	2°44	7°51	12°44	19°55	18°16	27°42	14°20	S 3
M 4	4 51 16	11°54'19	28°33	2°44	21°47	5° 7	4° 4	7°38	2°42	7°51	12°43	19°46	18°13	27°49	14°21	M 4
T 5	4 55 13	12°55'14	12♏51	3°49	23° 2	5°50	4°17	7°44	2°40	7°50	12°42	19°37	18°10	27°55	14°21	T 5
W 6	4 59 10	13°56'09	26°43	4°51	24°18	6°33	4°31	7°50	2°37	7°50	12°41	19°29	18° 7	28° 2	14°22	W 6
T 7	5 3 6	14°57'06	10♏ 8	5°48	25°33	7°17	4°44	7°57	2°35	7°49	12°41	19°22	18° 4	28° 9	14°23	T 7
F 8	5 7 3	15°58'04	23° 6	6°41	26°48	8° 0	4°58	8° 3	2°32	7°49	12°40	19°17	18° 1	28°15	14°23	F 8
S 9	5 10 59	16°59'03	5♏40	7°27	28° 3	8°43	5°11	8° 9	2°30	7°49	12°39	19°14	17°57	28°22	14°24	S 9
S 10	5 14 56	18° 0'02	17°54	8° 8	29°19	9°27	5°25	8°15	2°28	7°48	12°38	19°D13	17°54	28°29	14°25	S 10
M 11	5 18 52	19° 1'04	29°53	8°40	0♏34	10°10	5°38	8°21	2°25	7°48	12°37	19°14	17°51	28°35	14°26	M 11
T 12	5 22 49	20° 2'06	11♏43	9° 5	1°49	10°54	5°52	8°27	2°23	7°48	12°36	19°15	17°48	28°42	14°27	T 12
W 13	5 26 45	21° 3'09	23°30	9°21	3° 4	11°37	6° 5	8°33	2°20	7°48	12°35	19°R15	17°45	28°49	14°28	W 13
T 14	5 30 42	22° 4'13	5♏17	9°R27	4°20	12°21	6°19	8°39	2°18	7°47	12°34	19°13	17°42	28°55	14°29	T 14
F 15	5 34 38	23° 5'18	17°10	9°22	5°35	13° 5	6°33	8°45	2°15	7°47	12°33	19° 9	17°38	29° 2	14°30	F 15
S 16	5 38 35	24° 6'24	29°12	9° 5	6°50	13°49	6°46	8°51	2°12	7°47	12°33	19° 3	17°35	29° 8	14°31	S 16
S 17	5 42 32	25° 7'31	11♏25	8°38	8° 6	14°32	7° 0	8°57	2°10	7°47	12°32	18°53	17°32	29°15	14°32	S 17
M 18	5 46 28	26° 8'38	23°51	7°58	9°21	15°16	7°14	9° 2	2° 7	7°47	12°31	18°42	17°29	29°22	14°34	M 18
T 19	5 50 25	27° 9'46	6♏31	7° 7	10°36	16° 0	7°28	9° 8	2° 5	7°D47	12°30	18°29	17°26	29°28	14°35	T 19
W 20	5 54 21	28°10'54	19°23	6° 6	11°52	16°44	7°41	9°14	2° 2	7°47	12°30	18°16	17°22	29°35	14°36	W 20
T 21	5 58 18	29°12'03	2♏28	4°57	13° 7	17°28	7°55	9°19	2° 0	7°47	12°29	18° 5	17°19	29°42	14°38	T 21
F 22	6 2 14	0♌13'11	15°43	3°40	14°22	18°12	8° 9	9°25	1°57	7°47	12°28	17°55	17°16	29°48	14°39	F 22
S 23	6 6 11	1°14'20	29°10	2°19	15°38	18°56	8°23	9°30	1°54	7°47	12°27	17°48	17°13	29°55	14°41	S 23
S 24	6 10 8	2°15'29	12♏46	0°57	16°53	19°40	8°37	9°35	1°52	7°47	12°27	17°45	17°10	0♌ 2	14°43	S 24
M 25	6 14 4	3°16'39	26°33	29♏36	18° 8	20°24	8°50	9°41	1°49	7°48	12°26	17°43	17° 7	0° 8	14°44	M 25
T 26	6 18 1	4°17'48	10♏Y31	28°18	19°24	21° 9	9° 4	9°46	1°47	7°48	12°25	17°43	17° 3	0°15	14°46	T 26
W 27	6 21 57	5°18'56	24°39	27° 7	20°39	21°53	9°18	9°51	1°44	7°48	12°25	17°43	17° 0	0°22	14°48	W 27
T 28	6 25 54	6°20'05	8♏57	26° 3	21°54	22°37	9°32	9°56	1°41	7°48	12°24	17°42	16°57	0°28	14°50	T 28
F 29	6 29 50	7°21'14	23°23	25° 9	23°10	23°21	9°46	10° 1	1°39	7°49	12°24	17°38	16°54	0°35	14°51	F 29
S 30	6 33 47	8°22'23	7♏53	24°24	24°25	24° 6	10° 0	10° 6	1°36	7°49	12°23	17°31	16°51	0°42	14°53	S 30
S 31	6 37 43	9♌23'32	22♏21	23♏50	25♏41	24♏50	10♌14	10♌11	1♌34	7°Y49	12♌22	17♌21	16♌48	0♌48	14♌55	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	21s48	14n 5	2s 6	25s50	2s23	15s57	1n19	20s58	0s12	23s23	0n 1	11s50	2n15	23n41	0n15	1n42	1s33	0n28	15s56	7s52	7s13	9s49	1s53	4n39					
S 2	21 57	16 48	3 14	25 48	2 21	16 19	1 17	21 7	0 13	23 23	0 1	11 52	2 15	23 41	0 15	1 42	1 33	0 28	15 56	7 50	7 11	9 51	1 53	4 39					
S 3	22 5	18 22	4 9	25 45	2 18	16 41	1 16	21 15	0 14	23 23	0 1	11 54	2 15	23 41	0 15	1 41	1 33	0 28	15 56	7 47	7 10	9 52	1 53	4 39					
M 4	22 14	18 41	4 46	25 40	2 14	17 2	1 14	21 24	0 14	23 22	0 1	11 56	2 15	23 41	0 15	1 41	1 33	0 27	15 55	7 44	7 9	9 54	1 53	4 38					
T 5	22 22	17 47	5 4	25 34	2 10	17 23	1 12	21 32	0 15	23 22	0 1	11 58	2 15	23 41	0 15	1 41	1 33	0 27	15 55	7 41	7 8	9 56	1 53	4 38					
W 6	22 29	15 51	5 4	25 26	2 4	17 43	1 10	21 40	0 16	23 22	0 1	12 0	2 15	23 41	0 15	1 41	1 33	0 27	15 55	7 38	7 7	9 57	1 53	4 38					
T 7	22 36	13 6	4 47	25 17	1 58	18 3	1 8	21 48	0 16	23 21	0 1	12 2	2 16	23 41	0 15	1 41	1 33	0 27	15 55	7 35	7 5	9 59	1 53	4 37					
F 8	22 43	9 48	4 15	25 7	1 50	18 23	1 6	21 56	0 17	23 21	0 1	12 3	2 16	23 41	0 15	1 41	1 33	0 27	15 55	7 33	7 4	10 0	1 53	4 37					
S 9	22 49	6 9	3 32	24 56	1 41	18 42	1 4	22 3	0 17	23 21	0 1	12 5	2 16	23 41	0 15	1 41	1 33	0 27	15 54	7 32	7 3	10 2	1 53	4 37					
S 10	22 55	2 20	2 40	24 44	1 31	19 0	1 2	22 11	0 18	23 20	0 1	12 7	2 16	23 41	0 15	1 40	1 33	0 27	15 54	7 32	7 2	10 3	1 53	4 36					
M11	23 0	1s31	1 42	24 30	1 20	19 18	1 0	22 18	0 19	23 20	0 0	12 9	2 16	23 41	0 15	1 40	1 33	0 27	15 54	7 32	7 0	10 5	1 53	4 36					
T 12	23 5	5 15	0 40	24 16	1 8	19 35	0 58	22 24	0 19	23 19	0 0	12 11	2 16	23 41	0 15	1 40	1 33	0 27	15 54	7 32	6 59	10 6	1 53	4 36					
W13	23 9	8 47	0n23	24 1	0 54	19 52	0 56	22 31	0 20	23 19	0 0	12 13	2 16	23 41	0 15	1 40	1 33	0 27	15 54	7 32	6 58	10 8	1 53	4 35					
T 14	23 13	11 58	1 25	23 46	0 39	20 8	0 54	22 38	0 20	23 18	0 0	12 14	2 16	23 41	0 15	1 40	1 33	0 27	15 53	7 32	6 57	10 9	1 53	4 35					
F 15	23 16	14 41	2 23	23 30	0 22	20 24	0 52	22 44	0 21	23 18	0 0	12 16	2 17	23 42	0 15	1 40	1 33	0 27	15 53	7 30	6 56	10 11	1 53	4 35					
S 16	23 19	16 48	3 16	23 13	0 5	20 39	0 49	22 50	0 22	23 17	0s 0	12 18	2 17	23 42	0 15	1 40	1 33	0 27	15 53	7 28	6 54	10 13	1 53	4 34					
S 17	23 22	18 11	4 1	22 57	0n14	20 54	0 47	22 55	0 22	23 16	0 0	12 20	2 17	23 42	0 15	1 40	1 33	0 27	15 53	7 24	6 53	10 14	1 52	4 34					
M18	23 24	18 44	4 35	22 40	0 33	21 8	0 45	23 1	0 23	23 16	0 0	12 21	2 17	23 42	0 15	1 40	1 33	0 27	15 52	7 20	6 52	10 16	1 52	4 34					
T 19	23 25	18 22	4 55	22 23	0 53	21 21	0 43	23 6	0 23	23 15	0 0	12 23	2 17	23 42	0 16	1 40	1 33	0 27	15 52	7 15	6 51	10 17	1 52	4 33					
W20	23 26	17 4	5 2	22 6	1 13	21 34	0 40	23 11	0 24	23 14	0 0	12 24	2 17	23 42	0 16	1 40	1 33	0 27	15 52	7 10	6 50	10 19	1 52	4 33					
T 21	23 27	14 52	4 53	21 49	1 33	21 46	0 38	23 16	0 25	23 14	0 1	12 26	2 18	23 42	0 16	1 40	1 33	0 27	15 52	7 6	6 48	10 20	1 51	4 33					
F 22	23 27	11 52	4 28	21 33	1 52	21 57	0 35	23 21	0 25	23 13	0 1	12 28	2 18	23 42	0 16	1 40	1 32	0 27	15 51	7 2	6 47	10 22	1 51	4 33					
S 23	23 27	8 13	3 48	21 17	2 9	22 8	0 33	23 25	0 26	23 12	0 1	12 29	2 18	23 42	0 16	1 41	1 32	0 27	15 51	6 59	6 46	10 23	1 51	4 32					
S 24	23 26	4 5	2 54	21 2	2 25	22 18	0 31	23 29	0 26	23 11	0 1	12 31	2 18	23 42	0 16	1 41	1 32	0 27	15 51	6 58	6 45	10 25	1 51	4 32					
M25	23 25	0n18	1 50	20 49	2 38	22 27	0 28	23 33	0 27	23 10	0 1	12 32	2 18	23 42	0 16	1 41	1 32	0 27	15 50	6 57	6 43	10 26	1 50	4 32					
T 26	23 23	4 45	0 38	20 37	2 50	22 36	0 26	23 37	0 28	23 10	0 1	12 34	2 18	23 42	0 16	1 41	1 32	0 27	15 50	6 57	6 42	10 28	1 50	4 31					
W27	23 21	8 59	0s37	20 27	2 58	22 44	0 23	23 41	0 28	23 9	0 1	12 35	2 18	23 42	0 16	1 41	1 32	0 27	15 50	6 57	6 41	10 29	1 49	4 31					
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S 31	23s 7	18n42	4s33	20s 9	3n10	23s10	0n13	23s52	0s31	23s 5	0s 2	12s41	2n19	23n42	0n16	1n42	1s32	0n28	15s49	6s49	6s36	10s35	1s48	4n30					