



Astrodienst Ephemeris Tables for the year 1757

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 D5EPH

ASTRODIENST EPHEMERIS for the year 1757

geocentric

JANUARY 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 43 14	10°52'55	21°8'59	7°34'3	2°32'3	6°31'13	13°11'9	9°10'10	15°56'15	12°35'12	19°9'9	23°29'23	24°53'24	5°57'5	18°38'6	S 1
S 2	6 47 10	11°54'04	4°11'0	9°19'3	3°45'5	7°17'13	13°18'13	9°17'10	15°58'12	12°34'12	19°11'23	23°22'24	24°50'24	6°4'6	18°11'18	S 2
M 3	6 51 7	12°55'13	15°55'27	10°56'4	4°58'8	8°3'13	13°28'13	9°24'16	16°0'12	12°32'19	19°13'23	23°13'24	24°47'24	6°11'18	18°17'18	M 3
T 4	6 55 3	13°56'21	27°47'12	12°33'6	6°11'8	8°48'13	13°37'13	9°30'16	16°2'12	12°31'19	19°15'23	23°5'24	24°44'24	6°17'18	18°22'18	T 4
W 5	6 59 0	14°57'30	9°38'14	14°10'7	7°24'9	9°34'13	13°46'13	9°37'16	16°4'12	12°30'19	19°17'22	23°58'24	24°40'24	6°24'18	18°28'18	W 5
T 6	7 2 57	15°58'38	21°28'15	15°48'8	8°37'10	10°20'13	13°55'13	9°44'16	16°6'12	12°28'19	19°19'22	23°53'24	24°37'24	6°31'18	18°34'18	T 6
F 7	7 6 53	16°59'46	3°21'17	17°26'9	9°50'11	11°6'14	14°5'9	9°51'16	16°8'12	12°27'19	19°21'22	23°49'24	24°34'24	6°37'18	18°39'18	F 7
S 8	7 10 50	18°0'54	15°18'19	19°5'11	11°3'11	11°52'14	14°13'9	9°58'16	16°10'12	12°25'19	19°24'22	23°47'24	24°31'24	6°44'18	18°45'18	S 8
S 9	7 14 46	19°2'01	27°21'22	20°44'12	12°16'3	12°38'14	14°22'10	10°4'16	16°12'12	12°24'19	19°26'22	23°47'24	24°28'24	6°51'18	18°50'18	S 9
M10	7 18 43	20°3'08	9°11'33	22°24'13	13°29'13	13°24'14	14°31'10	10°11'16	16°14'12	12°22'19	19°28'22	23°48'24	24°25'24	6°57'18	18°56'18	M10
T 11	7 22 39	21°4'15	21°57'24	24°4'14	14°42'14	14°10'14	14°39'10	10°18'16	16°17'12	12°21'19	19°30'22	23°49'24	24°21'24	7°4'19	19°1'19	T 11
W12	7 26 36	22°5'22	4°37'25	25°45'15	15°55'14	14°56'14	14°48'10	10°25'16	16°19'12	12°19'19	19°32'22	23°51'24	24°18'24	7°11'19	19°7'19	W12
T 13	7 30 32	23°6'28	17°37'27	27°26'17	17°8'15	15°43'14	14°56'10	10°32'16	16°21'12	12°17'19	19°34'22	23°52'24	24°15'24	7°17'19	19°12'19	T 13
F 14	7 34 29	24°7'34	1°11'29	29°7'18	18°22'16	16°29'15	15°4'10	10°39'16	16°24'12	12°16'19	19°35'22	23°52'24	24°12'24	7°24'19	19°18'19	F 14
S 15	7 38 26	25°8'40	0°48'0	0°49'19	19°35'17	17°15'15	15°12'10	10°46'16	16°26'12	12°14'19	19°37'22	23°51'24	24°9'24	7°31'19	19°24'19	S 15
S 16	7 42 22	26°9'46	29°2'2	2°32'20	20°49'18	18°1'15	15°20'10	10°53'16	16°29'12	12°13'19	19°39'22	23°48'24	24°6'24	7°37'19	19°29'19	S 16
M17	7 46 19	27°10'51	13°40'4	4°14'22	22°2'18	18°48'15	15°28'11	10°0'16	16°31'12	12°11'19	19°41'22	23°45'24	24°2'24	7°44'19	19°35'19	M17
T 18	7 50 15	28°11'56	28°38'5	5°57'23	23°15'19	19°34'15	15°36'11	10°7'16	16°34'12	12°9'19	19°43'22	23°41'24	23°59'24	7°51'19	19°40'19	T 18
W19	7 54 12	29°13'01	13°46'7	7°41'24	24°29'20	20°20'15	15°43'11	10°14'16	16°36'12	12°8'19	19°45'22	23°38'24	23°56'24	7°58'19	19°46'19	W19
T 20	7 58 8	0°14'07	28°57'9	9°24'25	24°43'21	21°7'15	15°51'11	11°21'16	16°39'12	12°6'19	19°47'22	23°35'24	23°53'24	8°4'19	19°51'19	T 20
F 21	8 2 5	1°15'04	14°40'11	8°26'21	26°56'21	21°53'15	15°58'11	11°28'16	16°41'12	12°5'19	19°49'22	23°34'24	23°50'24	8°11'19	19°57'19	F 21
S 22	8 6 1	2°16'09	28°46'12	12°51'28	28°10'22	24°40'16	16°5'11	11°36'16	16°44'12	12°3'19	19°50'22	23°34'24	23°46'24	8°18'19	20°2'19	S 22
S 23	8 9 58	3°17'10	13°9'14	14°35'29	29°23'23	23°26'16	16°12'11	11°43'16	16°47'12	12°1'19	19°52'22	23°35'24	23°43'24	8°24'19	20°8'19	S 23
M24	8 13 55	4°18'10	27°6'27	16°18'0	0°37'24	24°13'16	16°19'11	11°50'16	16°49'12	12°0'19	19°54'22	23°36'24	23°40'24	8°31'19	20°13'19	M24
T 25	8 17 51	5°19'09	10°35'18	1°51'24	24°59'16	26°2'11	15°57'11	11°57'16	16°52'12	11°58'19	19°56'22	23°38'24	23°37'24	8°38'19	20°18'19	T 25
W26	8 21 48	6°20'06	23°38'19	4°42'3	25°46'16	26°12'13	15°4'10	11°54'16	16°55'12	11°56'19	19°57'22	23°39'24	23°34'24	8°44'19	20°24'19	W26
T 27	8 25 44	7°21'02	6°19'21	21°23'4	18°26'33	16°39'12	12°11'16	11°54'16	16°58'12	11°54'19	19°59'22	23°39'24	23°31'24	8°51'19	20°29'19	T 27
F 28	8 29 41	8°21'57	18°41'23	3°53'27	19°16'45	12°19'17	11°53'20	11°53'20	16°59'12	11°53'19	19°59'22	23°39'24	23°27'24	8°58'19	20°34'19	F 28
S 29	8 33 37	9°22'50	0°48'24	4°40'6	6°45'28	28°6'16	16°51'12	12°26'17	17°3'11	11°51'19	20°2'22	23°38'24	23°24'24	9°4'19	20°40'19	S 29
S 30	8 37 34	10°23'42	12°46'26	16'7	7°59'28	28°53'16	16°57'12	12°33'17	17°6'11	11°49'19	20°4'22	23°36'24	23°21'24	9°11'19	20°45'19	S 30
M31	8 41 30	11°24'33	24°37'27	27°49'9	9°13'29	29°39'17	17°13'12	12°40'17	17°9'11	11°48'19	20°7'22	23°35'24	23°18'24	9°18'19	20°50'19	M31

Delta T = 18.02 sec

Greg. Calendar

FEBRUARY 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 45 27	12°25'23	6°27	29°19	10°27	0°26	17°18	12°47	17°12	11°R46	20°7	22°R33	23°15	9°24	20°56	T 1
W 2	8 49 24	13°26'11	18°17	0°45	11°41	1°13	17°14	12°54	17°15	11°R44	20°9	22°R32	23°12	9°31	21°1	W 2
T 3	8 53 20	14°26'58	0°11	2°7	12°54	1°59	17°19	13°2	17°18	11°43	20°10	22°31	23°8	9°38	21°6	T 3
F 4	8 57 17	15°27'43	12°10	3°24	14°8	2°46	17°24	13°9	17°21	11°41	20°12	22°30	23°5	9°44	21°11	F 4
S 5	9 1 13	16°28'27	24°17	4°35	15°22	3°33	17°29	13°16	17°24	11°39	20°13	22°D30	23°2	9°51	21°17	S 5
S 6	9 5 10	17°29'10	6°33	5°40	16°36	4°20	17°34	13°23	17°27	11°38	20°15	22°30	22°59	9°58	21°22	S 6
M 7	9 9 6	18°29'52	19°0	6°37	17°50	5°7	17°38	13°30	17°30	11°36	20°16	22°30	22°56	10°5	21°27	M 7
T 8	9 13 3	19°30'32	1°39	7°27	19°4	5°54	17°43	13°38	17°33	11°34	20°18	22°31	22°52	10°11	21°32	T 8
W 9	9 16 59	20°31'11	14°32	8°7	20°18	6°40	17°47	13°45	17°37	11°33	20°19	22°31	22°49	10°18	21°37	W 9
T 10	9 20 56	21°31'49	27°40	8°39	21°32	7°27	17°51	13°52	17°40	11°31	20°20	22°31	22°46	10°25	21°42	T 10
F 11	9 24 52	22°32'26	11°5	9°0	22°46	8°14	17°55	13°59	17°43	11°29	20°22	22°R31	22°43	10°31	21°47	F 11
S 12	9 28 49	23°33'01	24°48	9°12	24°0	9°1	17°59	14°6	17°46	11°28	20°23	22°D31	22°40	10°38	21°52	S 12
S 13	9 32 46	24°33'36	8°49	9°R13	25°14	9°48	18°3	14°13	17°49	11°26	20°24	22°31	22°37	10°45	21°57	S 13
M14	9 36 42	25°34'09	23°8	9°3	26°28	10°35	18°6	14°20	17°52	11°24	20°25	22°32	22°33	10°51	22°2	M14
T 15	9 40 39	26°34'41	7°42	8°44	27°42	11°22	18°10	14°27	17°56	11°23	20°26	22°32	22°30	10°58	22°6	T 15
W16	9 44 35	27°35'12	22°26	8°14	28°56	12°9	18°13	14°34	17°59	11°21	20°28	22°32	22°27	11°5	22°11	W16
T 17	9 48 32	28°35'41	7°14	7°36	0°10	12°56	18°16	14°42	18°2	11°20	20°29	22°33	22°24	11°11	22°16	T 17
F 18	9 52 28	29°36'09	2°1	6°50	1°24	13°43	18°18	14°49	18°6	11°18	20°30	22°R33	22°21	11°18	22°21	F 18
S 19	9 56 25	0°36'35	6°37	5°57	2°38	14°30	18°21	14°56	18°9	11°16	20°31	22°33	22°17	11°25	22°25	S 19
S 20	10 0 22	1°36'59	20°57	4°59	3°52	15°17	18°23	15°3	18°12	11°15	20°32	22°32	22°14	11°31	22°30	S 20
M21	10 4 18	2°37'22	4°56	3°57	5°6	16°4	18°25	15°10	18°16	11°13	20°33	22°31	22°11	11°38	22°35	M21
T 22	10 8 15	3°37'42	18°31	2°53	6°20	16°52	18°27	15°17	18°19	11°12	20°34	22°30	22°8	11°45	22°39	T 22
W23	10 12 11	4°38'01	1°41	1°48	7°34	17°39	18°29	15°24	18°22	11°10	20°35	22°28	22°5	11°51	22°44	W23
T 24	10 16 8	5°38'18	14°28	0°44	8°48	18°26	18°31	15°30	18°26	11°9	20°36	22°27	22°2	11°58	22°48	T 24
F 25	10 20 4	6°38'33	26°54	29°43	10°2	19°13	18°32	15°37	18°29	11°7	20°37	22°26	21°58	12°5	22°53	F 25
S 26	10 24 1	7°38'45	9°11	28°45	11°16	20°0	18°34	15°44	18°32	11°6	20°38	22°D25	21°55	12°11	22°57	S 26
S 27	10 27 57	8°38'56	21°3	27°52	12°30	20°47	18°35	15°51	18°36	11°4	20°38	22°26	21°52	12°18	23°1	S 27
M28	10 31 54	9°39'05	22°54	27°4	13°44	21°34	18°136	15°58	18°39	11°R3	20°39	22°R27	21°R49	12°25	23°36	M28

ASTRODIENST EPHEMERIS for the year 1757

geocentric

MARCH 1757

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 35 50	10 ^h 39'11"	14 ^h 43'	26°R23	14 ^h 58'	22 ^h 21'	18 ^h 36'	16 ^h 55'	18 ^h 43'	11°R 1	20 ^h 40'	22 ^h 29'	21 ^h 46'	12 ^h 31'	23 ^h 10'	T 1
W 2	10 39 47	11°39'15"	26°35'	25 ^h 48'	16°13'	23° 8'	18°37'	16°11'	18°46'	11 ^h 00'	20°41'	22°30'	21°43'	12°38'	23°14'	W 2
T 3	10 43 44	12°39'18"	8 ^h 23'	25°20'	17°27'	23°55'	18°37'	16°18'	18°49'	10°59'	20°41'	22°31'	21°39'	12°45'	23°18'	T 3
F 4	10 47 40	13°39'18"	20°39'	24°58'	18°41'	24°43'	18°R37'	16°25'	18°53'	10°57'	20°42'	22°R32'	21°36'	12°51'	23°22'	F 4
S 5	10 51 37	14°39'16"	2 ^h 57'	24°44'	19°55'	25°30'	18°37'	16°31'	18°56'	10°56'	20°43'	22°32'	21°33'	12°58'	23°26'	S 5
S 6	10 55 33	15°39'13"	15°30'	24°36'	21° 9'	26°17'	18°37'	16°38'	19° 0'	10°54'	20°43'	22°30'	21°30'	13° 5'	23°30'	S 6
M 7	10 59 30	16°39'07"	28°16'	24°D34'	22°23'	27° 4'	18°37'	16°45'	19° 3'	10°53'	20°44'	22°27'	21°27'	13°11'	23°34'	M 7
T 8	11 3 26	17°38'59"	11 ^h 17'	24°39'	23°37'	27°51'	18°36'	16°51'	19° 6'	10°52'	20°44'	22°24'	21°23'	13°18'	23°38'	T 8
W 9	11 7 23	18°38'50"	24°32'	24°50'	24°51'	28°38'	18°35'	16°58'	19°10'	10°51'	20°45'	22°20'	21°20'	13°25'	23°42'	W 9
T 10	11 11 19	19°38'39"	8 ^h 00'	25° 6'	26° 5'	29°25'	18°34'	17° 4'	19°13'	10°49'	20°45'	22°16'	21°17'	13°31'	23°45'	T 10
F 11	11 15 16	20°38'26"	21°40'	25°27'	27°19'	0 ^h 12'	18°33'	17°10'	19°17'	10°48'	20°46'	22°12'	21°14'	13°38'	23°49'	F 11
S 12	11 19 13	21°38'11"	5 ^h 31'	25°53'	28°33'	1° 0'	18°32'	17°17'	19°20'	10°47'	20°46'	22°10'	21°11'	13°45'	23°53'	S 12
S 13	11 23 9	22°37'55"	19°31'	26°24'	29°47'	1°47'	18°30'	17°23'	19°24'	10°46'	20°46'	22°D 9'	21° 8'	13°52'	23°56'	S 13
M14	11 27 6	23°37'37"	3 ^h 39'	27° 0'	1 ^h 2'	2°34'	18°28'	17°29'	19°27'	10°45'	20°47'	22° 9'	21° 4'	13°58'	24° 0'	M14
T 15	11 31 2	24°37'17"	17°54'	27°39'	2°16'	3°21'	18°26'	17°36'	19°30'	10°43'	20°47'	22°10'	21° 1'	14° 5'	24° 3'	T 15
W16	11 34 59	25°36'56"	2 ^h 13'	28°23'	3°30'	4° 8'	18°24'	17°42'	19°34'	10°42'	20°47'	22°12'	20°58'	14°12'	24° 7'	W16
T 17	11 38 55	26°36'33"	16°34'	29°10'	4°44'	4°55'	18°22'	17°48'	19°37'	10°41'	20°47'	22°R13'	20°55'	14°18'	24°10'	T 17
F 18	11 42 52	27°36'08"	0 ^h 53'	0 ^h 0'	5°58'	5°42'	18°20'	17°54'	19°41'	10°40'	20°48'	22°13'	20°52'	14°25'	24°13'	F 18
S 19	11 46 48	28°35'41"	15° 5'	0°54'	7°12'	6°29'	18°17'	18° 0'	19°44'	10°39'	20°48'	22°11'	20°49'	14°32'	24°16'	S 19
S 20	11 50 45	29°35'12"	29° 7'	1°50'	8°26'	7°16'	18°14'	18° 6'	19°48'	10°38'	20°48'	22° 7'	20°45'	14°38'	24°20'	S 20
M21	11 54 42	0 ^h 34'41"	12 ^h 54'	2°49'	9°40'	8° 3'	18°11'	18°12'	19°51'	10°37'	20°48'	22° 2'	20°42'	14°45'	24°23'	M21
T 22	11 58 38	1°34'08"	26°22'	3°51'	10°54'	8°50'	18° 8'	18°18'	19°54'	10°36'	20°48'	21°55'	20°39'	14°52'	24°26'	T 22
W23	12 2 35	2°33'33"	9 ^h 30'	4°56'	12° 8'	9°37'	18° 5'	18°24'	19°58'	10°35'	20°R48'	21°48'	20°36'	14°58'	24°29'	W23
T 24	12 6 31	3°32'55"	22°18'	6° 3'	13°22'	10°24'	18° 1'	18°30'	20° 1'	10°34'	20°48'	21°41'	20°33'	15° 5'	24°31'	T 24
F 25	12 10 28	4°32'15"	4 ^h 46'	7°12'	14°36'	11°11'	17°57'	18°35'	20° 4'	10°34'	20°48'	21°36'	20°29'	15°12'	24°34'	F 25
S 26	12 14 24	5°31'33"	16°58'	8°24'	15°50'	11°58'	17°54'	18°41'	20° 8'	10°33'	20°48'	21°32'	20°26'	15°18'	24°37'	S 26
S 27	12 18 21	6°30'49"	28°58'	9°37'	17° 4'	12°45'	17°50'	18°47'	20°11'	10°32'	20°48'	21°30'	20°23'	15°25'	24°40'	S 27
M28	12 22 17	7°30'03"	10 ^h 49'	10°53'	18°19'	13°32'	17°45'	18°52'	20°14'	10°31'	20°48'	21°D30'	20°20'	15°32'	24°42'	M28
T 29	12 26 14	8°29'14"	22°39'	12°10'	19°33'	14°19'	17°41'	18°58'	20°18'	10°30'	20°48'	21°31'	20°17'	15°38'	24°45'	T 29
W30	12 30 10	9°28'23"	4 ^h 31'	13°30'	20°47'	15° 6'	17°36'	19° 3'	20°21'	10°30'	20°47'	21°32'	20°14'	15°45'	24°47'	W30
T 31	12 34 7	10 ^h 27'29"	16 ^h 23'	14 ^h 51'	22 ^h 1'	15 ^h 53'	17 ^h 32'	19 ^h 9'	20 ^h 24'	10 ^h 29'	20 ^h 47'	21°R33'	20 ^h 10'	15 ^h 52'	24 ^h 50'	T 31

Delta T = 18.06 sec

Greg. Calendar

APRIL 1757

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 38 4	11 ^h 26'33"	28 ^h 43'	16 ^h 14'	23 ^h 15'	16 ^h 40'	17°R27'	19 ^h 14'	20 ^h 28'	10°R28'	20°R47'	21°R33'	20 ^h 07'	15 ^h 58'	24 ^h 52'	F 1
S 2	12 42 0	12°25'35"	11 ^h 10'	17°39'	24°29'	17°27'	17 ^h 22'	19°19'	20°31'	10 ^h 28'	20 ^h 47'	21 ^h 21'	20° 4'	16° 5'	24°54'	S 2
S 3	12 45 57	13°24'35"	23°57'	19° 5'	25°43'	18°13'	17°17'	19°24'	20°34'	10°27'	20°46'	21°27'	20° 1'	16°12'	24°57'	S 3
M 4	12 49 53	14°23'32"	7 ^h 2'	20°33'	26°57'	19° 0'	17°12'	19°29'	20°37'	10°27'	20°46'	21°20'	19°58'	16°18'	24°59'	M 4
T 5	12 53 50	15°22'28"	20°27'	22° 3'	28°11'	19°47'	17° 6'	19°35'	20°40'	10°26'	20°46'	21°12'	19°54'	16°25'	25° 1'	T 5
W 6	12 57 46	16°21'21"	4 ^h 08'	23°34'	29°24'	20°34'	17° 1'	19°40'	20°44'	10°26'	20°45'	21° 3'	19°51'	16°32'	25° 3'	W 6
T 7	13 1 43	17°20'13"	18° 3'	25° 7'	0 ^h 38'	21°21'	16°55'	19°44'	20°47'	10°25'	20°45'	20°54'	19°48'	16°38'	25° 5'	T 7
F 8	13 5 39	18°19'03"	2 ^h 8'	26°42'	1°52'	22° 7'	16°49'	19°49'	20°50'	10°25'	20°44'	20°46'	19°45'	16°45'	25° 6'	F 8
S 9	13 9 36	19°17'51"	16°17'	28°18'	3° 6'	22°54'	16°43'	19°54'	20°53'	10°24'	20°44'	20°39'	19°42'	16°52'	25° 8'	S 9
S 10	13 13 33	20°16'37"	0 ^h 29'	29°56'	4°20'	23°41'	16°37'	19°59'	20°56'	10°24'	20°43'	20°35'	19°39'	16°58'	25°10'	S 10
M11	13 17 29	21°15'22"	14°40'	1 ^h 35'	5°34'	24°27'	16°31'	20° 3'	20°59'	10°24'	20°43'	20°34'	19°35'	17° 5'	25°11'	M11
T 12	13 21 26	22°14'05"	28°47'	3°16'	6°48'	25°14'	16°25'	20° 8'	21° 2'	10°23'	20°42'	20°D34'	19°32'	17°12'	25°13'	T 12
W13	13 25 22	23°12'46"	12 ^h 51'	4°58'	8° 2'	26° 1'	16°18'	20°13'	21° 5'	10°23'	20°41'	20°R34'	19°29'	17°18'	25°14'	W13
T 14	13 29 19	24°11'26"	26°50'	6°42'	9°16'	26°47'	16°12'	20°17'	21° 8'	10°23'	20°41'	20°R34'	19°26'	17°25'	25°16'	T 14
F 15	13 33 15	25°10'03"	10 ^h 44'	8°28'	10°30'	27°34'	16° 5'	20°21'	21°11'	10°23'	20°40'	20°33'	19°23'	17°32'	25°17'	F 15
S 16	13 37 12	26° 8'40"	24°29'	10°16'	11°44'	28°20'	15°59'	20°26'	21°14'	10°22'	20°39'	20°28'	19°20'	17°38'	25°18'	S 16
S 17	13 41 8	27° 7'14"	8 ^h 6'	12° 4'	12°58'	29° 7'	15°52'	20°30'	21°17'	10°22'	20°38'	20°22'	19°16'	17°45'	25°19'	S 17
M18	13 45 5	28° 5'46"	21°31'	13°55'	14°12'	29°53'	15°45'	20°34'	21°20'	10°22'	20°38'	20°12'	19°13'	17°52'	25°21'	M18
T 19	13 49 2	29° 4'17"	4 ^h 43'	15°47'	15°26'	0 ^h 40'	15°38'	20°38'	21°23'	10°22'	20°37'	20° 1'	19°10'	17°58'	25°22'	T 19
W20	13 52 58	0 ^h 2'46"	17°39'	17°41'	16°40'	1°26'	15°31'	20°42'	21°26'	10°22'	20°36'	19°49'	19° 7'	18° 5'	25°22'	W20
T 21	13 56 55	1° 1'12"	0 ^h 18'	19°37'	17°54'	2°12'	15°24'	20°46'	21°29'	10°D22'	20°35'	19°37'	19° 4'	18°12'	25°23'	T 21
F 22	14 0 51	1°59'37"	12°42'	21°34'	19° 7'	2°59'	15°16'	20°50'	21°32'	10°22'	20°34'	19°27'	19° 0'	18°18'	25°24'	F 22
S 23	14 4 48	2°58'00"	24°51'	23°33'	20°21'	3°45'	15° 9'	20°53'	21°34'	10°22'	20°33'	19°19'	18°57'	18°25'	25°25'	S 23
S 24	14 8 44	3°56'21"	6 ^h 50'	25°33'	21°35'	4°31'	15° 2'	20°57'	21°37'	10°22'	20°32'	19°13'	18°54'	18°32'	25°25'	S 24
M25	14 12 41	4°54'40"	18°41'	27°35'	22°49'	5°17'	14°54'	21° 1'	21°40'	10°22'	20°32'	19°10'	18°51'	18°38'	25°26'	M25
T 26	14 16 37	5°52'56"	0 ^h 23'	29°38'	24° 3'	6° 3'	14°47'	21° 4'	21°43'	10°22'	20°31'	19° 9'	18°48'	18°45'	25°26'	T 26
W27	14 20 34	6°51'11"	12°21'	1 ^h 43'	25°17'	6°50'	14°39'	21° 7'	21°45'	10°23'	20°30'	19° 9'	18°45'	18°52'	25°27'	W27
T 28	14 24 31	7°49'23"	24°21'	3°49'	26°31'	7°36'	14°32'	21°11'	21°48'	10°23'	20°29'	19° 9'	18°41'	18°58'	25°27'	T 28
F 29	14 28 27	8°47'34"	6 ^h 35'	5°56'	27°44'	8°22'	14°24'	21°14'	21°50'	10°23'	20°27'	19° 8'	18°38'	19° 5'	25°27'	F 29
S 30	14 32 24	9 ^h 45'42"	19 ^h 6'	8 ^h 4'	28 ^h 58'	9 ^h 8'	14 ^h 17'	21 ^h 17'	21 ^h 53'	10 ^h 23'	20 ^h 26'	19 ^h 5'	18 ^h 35'	19 ^h 12'	25 ^h 27'	S 30

Delta T = 18.09 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1757
geocentric

MAY 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 20	10♈43'49	2♊0	10♈13	0♈12	9♈54	14°R 9	21♈20	21♈56	10♈24	20°R25	18°R59	18♈32	19♈18	25°R27	S 1
M 2	14 40 17	11°41'54	15°18	12°22	1°26	10°40	14♈2	21°23	21°58	10°24	20♈24	18♈51	18°29	19°25	25♈27	M 2
T 3	14 44 13	12°39'56	29°1	14°32	2°40	11°26	13°54	21°26	22°1	10°24	20°23	18°41	18°25	19°32	25°27	T 3
W 4	14 48 10	13°37'58	13♈4	16°43	3°53	12°11	13°46	21°29	22°3	10°25	20°22	18°29	18°22	19°38	25°27	W 4
T 5	14 52 6	14°35'57	27°25	18°53	5°7	12°57	13°39	21°31	22°5	10°25	20°21	18°18	18°19	19°45	25°27	T 5
F 6	14 56 3	15°33'55	11♈57	21°3	6°21	13°43	13°31	21°34	22°8	10°26	20°19	18°7	18°16	19°52	25°27	F 6
S 7	14 59 59	16°31'52	26°32	23°12	7°35	14°29	13°23	21°36	22°10	10°26	20°18	17°59	18°13	19°58	25°26	S 7
S 8	15 3 56	17°29'47	11♈4	25°20	8°48	15°14	13°16	21°39	22°12	10°27	20°17	17°54	18°10	20°5	25°26	S 8
M 9	15 7 53	18°27'41	25°29	27°27	10°2	16°0	13°8	21°41	22°15	10°27	20°16	17°51	18°6	20°12	25°25	M 9
T 10	15 11 49	19°25'34	9♈42	29°32	11°16	16°46	13°1	21°43	22°17	10°28	20°14	17°50	18°3	20°18	25°25	T 10
W 11	15 15 46	20°23'25	23°44	1♈36	12°30	17°31	12°53	21°46	22°19	10°29	20°13	17°50	18°0	20°25	25°24	W 11
T 12	15 19 42	21°21'16	7♈32	3°38	13°43	18°17	12°46	21°48	22°21	10°29	20°12	17°49	17°57	20°32	25°23	T 12
F 13	15 23 39	22°19'05	21°9	5°37	14°57	19°2	12°38	21°50	22°23	10°30	20°10	17°47	17°54	20°38	25°22	F 13
S 14	15 27 35	23°16'53	4♈34	7°34	16°11	19°48	12°31	21°51	22°25	10°31	20°9	17°42	17°51	20°45	25°22	S 14
S 15	15 31 32	24°14'39	17°48	9°29	17°25	20°33	12°23	21°53	22°27	10°32	20°8	17°35	17°47	20°52	25°21	S 15
M 16	15 35 28	25°12'25	0♈51	11°21	18°38	21°18	12°16	21°55	22°29	10°32	20°6	17°25	17°44	20°58	25°20	M 16
T 17	15 39 25	26°10'09	13°42	13°10	19°52	22°4	12°9	21°56	22°31	10°33	20°5	17°12	17°41	21°5	25°18	T 17
W 18	15 43 22	27°7'52	26°20	14°56	21°6	22°49	12°1	21°58	22°33	10°34	20°4	16°59	17°38	21°11	25°17	W 18
T 19	15 47 18	28°5'34	8♈46	16°39	22°20	23°34	11°54	21°59	22°35	10°35	20°2	16°47	17°35	21°18	25°16	T 19
F 20	15 51 15	29°3'14	21°0	18°19	23°33	24°19	11°47	22°1	22°37	10°36	20°1	16°35	17°31	21°25	25°15	F 20
S 21	15 55 11	0♈53	3♈3	19°56	24°47	25°4	11°40	22°2	22°39	10°37	19°59	16°26	17°28	21°31	25°13	S 21
S 22	15 59 8	0°58'31	14°58	21°30	26°1	25°49	11°33	22°3	22°40	10°38	19°58	16°20	17°25	21°38	25°12	S 22
M 23	16 3 4	1°56'07	26°46	23°1	27°15	26°34	11°27	22°4	22°42	10°39	19°56	16°16	17°22	21°45	25°10	M 23
T 24	16 7 1	2°53'42	8♈34	24°29	28°28	27°19	11°20	22°5	22°44	10°40	19°55	16°14	17°19	21°51	25°9	T 24
W 25	16 10 58	3°51'16	20°24	25°53	29°42	28°4	11°13	22°6	22°45	10°41	19°53	16°D14	17°16	21°58	25°7	W 25
T 26	16 14 54	4°48'48	2♈23	27°14	0♈56	28°49	11°7	22°6	22°47	10°42	19°52	16°R14	17°12	22°5	25°5	T 26
F 27	16 18 51	5°46'18	14°35	28°32	2°9	29°34	11°0	22°7	22°48	10°43	19°50	16°14	17°9	22°11	25°3	F 27
S 28	16 22 47	6°43'48	27°7	29°46	3°23	0♈18	10°54	22°7	22°50	10°44	19°49	16°12	17°6	22°18	25°2	S 28
S 29	16 26 44	7°41'16	10♈2	0♈57	4°37	1°3	10°48	22°8	22°51	10°46	19°47	16°8	17°3	22°25	25°0	S 29
M 30	16 30 40	8°38'42	23°23	2°5	5°51	1°48	10°42	22°8	22°53	10°47	19°46	16°2	17°0	22°31	24°58	M 30
T 31	16 34 37	9♈36'08	7♈13	3♈8	7♈4	2♈32	10♈36	22♈8	22♈54	10♈48	19♈44	15♈54	16♈57	22♈38	24♈56	T 31

Delta T = 18.11 sec

Greg. Calendar

JUNE 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 38 33	10♈33'32	21♈28	4♈9	8♈18	3♈17	10°R30	22♈8	22♈55	10♈49	19°R43	15°R44	16♈53	22♈45	24°R53	W 1
T 2	16 42 30	11°30'56	6♈6	5°5	9°32	4°1	10♈24	22°R 8	22°57	10°51	19♈41	15♈34	16°50	22°51	24♈51	T 2
F 3	16 46 26	12°28'18	20°58	5°58	10°45	4°45	10°19	22°8	22°58	10°52	19°39	15°25	16°47	22°58	24°49	F 3
S 4	16 50 23	13°25'40	5♈55	6°47	11°59	5°30	10°13	22°8	22°59	10°53	19°38	15°19	16°44	23°5	24°47	S 4
S 5	16 54 20	14°23'01	20°50	7°32	13°13	6°14	10°8	22°8	23°0	10°55	19°36	15°14	16°41	23°11	24°44	S 5
M 6	16 58 16	15°20'22	5♈34	8°13	14°26	6°58	10°3	22°7	23°1	10°56	19°35	15°12	16°37	23°18	24°42	M 6
T 7	17 2 13	16°17'42	20°3	8°50	15°40	7°42	9°58	22°7	23°2	10°58	19°33	15°D12	16°34	23°25	24°39	T 7
W 8	17 6 9	17°15'01	4♈13	9°23	16°54	8°26	9°53	22°6	23°3	10°59	19°32	15°12	16°31	23°31	24°37	W 8
T 9	17 10 6	18°12'20	18°3	9°51	18°7	9°10	9°48	22°6	23°4	11°0	19°30	15°R13	16°28	23°38	24°34	T 9
F 10	17 14 2	19°9'38	1°Y35	10°15	19°21	9°54	9°44	22°5	23°5	11°2	19°28	15°12	16°25	23°45	24°32	F 10
S 11	17 17 59	20°6'56	14°49	10°35	20°35	10°38	9°39	22°4	23°6	11°3	19°27	15°9	16°22	23°51	24°29	S 11
S 12	17 21 56	21°4'14	27°48	10°50	21°49	11°22	9°35	22°3	23°7	11°5	19°25	15°5	16°18	23°58	24°26	S 12
M 13	17 25 52	22°1'32	10♈33	11°0	23°2	12°6	9°31	22°2	23°7	11°7	19°24	14°58	16°15	24°5	24°24	M 13
T 14	17 29 49	22°58'49	23°6	11°6	24°16	12°50	9°27	22°1	23°8	11°8	19°22	14°49	16°12	24°11	24°21	T 14
W 15	17 33 45	23°56'05	5♈28	11°R 8	25°30	13°33	9°23	22°0	23°9	11°10	19°21	14°40	16°9	24°18	24°18	W 15
T 16	17 37 42	24°53'22	17°39	11°5	26°43	14°17	9°20	21°58	23°9	11°11	19°19	14°31	16°6	24°25	24°15	T 16
F 17	17 41 38	25°50'37	29°42	10°57	27°57	15°1	9°16	21°57	23°10	11°13	19°17	14°23	16°3	24°31	24°12	F 17
S 18	17 45 35	26°47'53	11♈38	10°45	29°11	15°44	9°13	21°55	23°10	11°15	19°16	14°16	15°59	24°38	24°9	S 18
S 19	17 49 31	27°45'08	23°28	10°29	0♈25	16°27	9°10	21°54	23°11	11°16	19°14	14°12	15°56	24°45	24°6	S 19
M 20	17 53 28	28°42'22	5♈15	10°9	1°38	17°11	9°7	21°52	23°11	11°18	19°13	14°10	15°53	24°51	24°3	M 20
T 21	17 57 25	29°39'36	17°2	9°46	2°52	17°54	9°4	21°50	23°12	11°20	19°11	14°D 9	15°50	24°58	24°0	T 21
W 22	18 1 21	0♈36'50	28°52	9°19	4°6	18°37	9°2	21°48	23°12	11°22	19°10	14°10	15°47	25°5	23°57	W 22
T 23	18 5 18	1°34'02	10♈51	8°50	5°20	19°20	8°59	21°46	23°12	11°24	19°8	14°11	15°43	25°11	23°53	T 23
F 24	18 9 14	2°31'15	23°3	8°18	6°33	20°4	8°57	21°44	23°12	11°25	19°7	14°13	15°40	25°18	23°50	F 24
S 25	18 13 11	3°28'27	5♈33	7°44	7°47	20°47	8°55	21°42	23°13	11°27	19°5	14°R13	15°37	25°24	23°47	S 25
S 26	18 17 7	4°25'38	18°25	7°8	9°1	21°30	8°53	21°40	23°13	11°29	19°3	14°12	15°34	25°31	23°44	S 26
M 27	18 21 4	5°22'49	1♈43	6°32	10°15	22°12	8°52	21°37	23°13	11°31	19°2	14°10	15°31	25°38	23°40	M 27
T 28	18 25 0	6°20'00	15°30	5°56	11°28	22°55	8°50	21°35	23°R13	11°33	19°0	14°6	15°28	25°44	23°37	T 28
W 29	18 28 57	7°17'10	29°45	5°20	12°42	23°38	8°49	21°33	23°13	11°35	18°59	14°1	15°24	25°51	23°34	W 29
T 30	18 32 54	8♈14'20	14♈25	4♈46	13♈56	24♈21	8♈48	21♈30	23♈13	11♈37	18♈58	13♈55	15♈21	25♈58	23♈30	T 30

Delta T = 18.13 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1757
geocentric

JULY 1757

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 36 50	9 ⁵⁵ 11'30	29 ²⁷ 24	4 ⁰ R13	15 ⁵⁶ 9	25 ⁸ 3	8 ⁰ R47	21 ⁰ R27	23 ⁰ R13	11 ⁰ Ω38	18 ⁰ R56	13 ⁰ R51	15 ⁰ Ω18	26 ⁰ Ω 4	23 ⁰ R27	F 1
S 2	18 40 47	10 ⁰ 8'40	14 ³³ 34	3 ⁵⁶ 42	16 ⁰ 23	25 ⁴⁶	8 ⁰ Ω46	21 ⁰ Ω25	23 ⁰ Ω12	11 ⁰ 40	18 ⁰ Ω55	13 ⁰ Ω47	15 ⁰ 15	26 ⁰ 11	23 ⁰ Ω23	S 2
S 3	18 44 43	11 ⁰ 5'50	29 ⁰ 44	3 ⁰ 14	17 ⁰ 37	26 ⁰ 28	8 ⁰ 45	21 ⁰ 22	23 ⁰ 12	11 ⁰ 42	18 ⁰ 53	13 ⁰ 45	15 ⁰ 12	26 ⁰ 18	23 ⁰ 20	S 3
M 4	18 48 40	12 ⁰ 3'01	14 ⁰ 46	2 ⁰ 49	18 ⁰ 51	27 ⁰ 11	8 ⁰ 45	21 ⁰ 19	23 ⁰ 12	11 ⁰ 44	18 ⁰ 52	13 ⁰ D44	15 ⁰ 9	26 ⁰ 24	23 ⁰ 16	M 4
T 5	18 52 36	13 ⁰ 0'11	29 ⁰ 31	2 ⁰ 29	20 ⁰ 4	27 ⁰ 53	8 ⁰ 45	21 ⁰ 16	23 ⁰ 12	11 ⁰ 46	18 ⁰ 50	13 ⁰ 45	15 ⁰ 5	26 ⁰ 31	23 ⁰ 13	T 5
W 6	18 56 33	13 ⁰ 57'22	13 ⁰ Ω55	2 ⁰ 12	21 ⁰ 18	28 ⁰ 35	8 ⁰ D45	21 ⁰ 13	23 ⁰ 11	11 ⁰ 48	18 ⁰ 49	13 ⁰ 46	15 ⁰ 2	26 ⁰ 38	23 ⁰ 10	W 6
T 7	19 0 29	14 ⁰ 54'33	27 ⁰ 55	2 ⁰ 0	22 ⁰ 32	29 ⁰ 17	8 ⁰ 45	21 ⁰ 10	23 ⁰ 11	11 ⁰ 50	18 ⁰ 48	13 ⁰ 48	14 ⁰ 59	26 ⁰ 44	23 ⁰ 6	T 7
F 8	19 4 26	15 ⁰ 51'45	11 ⁰ Ω31	1 ⁰ 52	23 ⁰ 46	29 ⁰ 59	8 ⁰ 45	21 ⁰ 7	23 ⁰ 10	11 ⁰ 52	18 ⁰ 46	13 ⁰ R48	14 ⁰ 56	26 ⁰ 51	23 ⁰ 2	F 8
S 9	19 8 23	16 ⁰ 48'57	24 ⁰ 44	1 ⁰ D50	24 ⁰ 59	0 ⁰ Ω42	8 ⁰ 46	21 ⁰ 3	23 ⁰ 10	11 ⁰ 54	18 ⁰ 45	13 ⁰ 48	14 ⁰ 53	26 ⁰ 58	22 ⁰ 59	S 9
S 10	19 12 19	17 ⁰ 46'10	7 ⁰ Ω37	1 ⁰ 53	26 ⁰ 13	1 ⁰ 24	8 ⁰ 46	21 ⁰ 0	23 ⁰ 9	11 ⁰ 56	18 ⁰ 43	13 ⁰ 47	14 ⁰ 49	27 ⁰ 4	22 ⁰ 55	S 10
M 11	19 16 16	18 ⁰ 43'23	20 ⁰ 12	2 ⁰ 1	27 ⁰ 27	2 ⁰ 5	8 ⁰ 47	20 ⁰ 57	23 ⁰ 9	11 ⁰ 59	18 ⁰ 42	13 ⁰ 44	14 ⁰ 46	27 ⁰ 11	22 ⁰ 52	M 11
T 12	19 20 12	19 ⁰ 40'37	2 ⁰ Ω33	2 ⁰ 15	28 ⁰ 41	2 ⁰ 47	8 ⁰ 48	20 ⁰ 53	23 ⁰ 8	12 ⁰ 1	18 ⁰ 41	13 ⁰ 41	14 ⁰ 43	27 ⁰ 18	22 ⁰ 48	T 12
W 13	19 24 9	20 ⁰ 37'52	14 ⁰ 43	2 ⁰ 34	29 ⁰ 55	3 ⁰ 29	8 ⁰ 49	20 ⁰ 50	23 ⁰ 7	12 ⁰ 3	18 ⁰ 40	13 ⁰ 37	14 ⁰ 40	27 ⁰ 24	22 ⁰ 45	W 13
T 14	19 28 5	21 ⁰ 35'07	26 ⁰ 44	2 ⁰ 58	1 ⁰ Ω 8	4 ⁰ 11	8 ⁰ 51	20 ⁰ 46	23 ⁰ 7	12 ⁰ 5	18 ⁰ 38	13 ⁰ 34	14 ⁰ 37	27 ⁰ 31	22 ⁰ 41	T 14
F 15	19 32 2	22 ⁰ 32'23	8 ⁰ Ω38	3 ⁰ 28	2 ⁰ 22	4 ⁰ 52	8 ⁰ 52	20 ⁰ 43	23 ⁰ 6	12 ⁰ 7	18 ⁰ 37	13 ⁰ 31	14 ⁰ 34	27 ⁰ 38	22 ⁰ 38	F 15
S 16	19 35 58	23 ⁰ 29'39	20 ⁰ 27	4 ⁰ 4	3 ⁰ 36	5 ⁰ 34	8 ⁰ 54	20 ⁰ 39	23 ⁰ 5	12 ⁰ 9	18 ⁰ 36	13 ⁰ 28	14 ⁰ 30	27 ⁰ 44	22 ⁰ 34	S 16
S 17	19 39 55	24 ⁰ 26'56	2 ⁰ Ω15	4 ⁰ 45	4 ⁰ 50	6 ⁰ 15	8 ⁰ 56	20 ⁰ 35	23 ⁰ 4	12 ⁰ 11	18 ⁰ 35	13 ⁰ 27	14 ⁰ 27	27 ⁰ 51	22 ⁰ 30	S 17
M 18	19 43 52	25 ⁰ 24'13	14 ⁰ 2	5 ⁰ 32	6 ⁰ 4	6 ⁰ 57	8 ⁰ 58	20 ⁰ 31	23 ⁰ 3	12 ⁰ 13	18 ⁰ 33	13 ⁰ D26	14 ⁰ 24	27 ⁰ 57	22 ⁰ 27	M 18
T 19	19 47 48	26 ⁰ 21'31	25 ⁰ 52	6 ⁰ 23	7 ⁰ 17	7 ⁰ 38	9 ⁰ 0	20 ⁰ 27	23 ⁰ 2	12 ⁰ 15	18 ⁰ 32	13 ⁰ 27	14 ⁰ 21	28 ⁰ 4	22 ⁰ 23	T 19
W 20	19 51 45	27 ⁰ 18'49	7 ⁰ Ω47	7 ⁰ 21	8 ⁰ 31	8 ⁰ 19	9 ⁰ 3	20 ⁰ 24	23 ⁰ 1	12 ⁰ 18	18 ⁰ 31	13 ⁰ 28	14 ⁰ 18	28 ⁰ 11	22 ⁰ 20	W 20
T 21	19 55 41	28 ⁰ 16'07	19 ⁰ 50	8 ⁰ 23	9 ⁰ 45	9 ⁰ 0	9 ⁰ 5	20 ⁰ 20	23 ⁰ 0	12 ⁰ 20	18 ⁰ 30	13 ⁰ 29	14 ⁰ 15	28 ⁰ 17	22 ⁰ 16	T 21
F 22	19 59 38	29 ⁰ 13'26	2 ⁰ Ω 6	9 ⁰ 31	10 ⁰ 59	9 ⁰ 41	9 ⁰ 8	20 ⁰ 16	22 ⁰ 59	12 ⁰ 22	18 ⁰ 29	13 ⁰ 30	14 ⁰ 11	28 ⁰ 24	22 ⁰ 13	F 22
S 23	20 3 34	0 ⁰ Ω10'46	14 ⁰ 37	10 ⁰ 44	12 ⁰ 13	10 ⁰ 22	9 ⁰ 11	20 ⁰ 11	22 ⁰ 58	12 ⁰ 24	18 ⁰ 28	13 ⁰ 31	14 ⁰ 8	28 ⁰ 31	22 ⁰ 9	S 23
S 24	20 7 31	1 ⁰ 8'06	27 ⁰ 27	12 ⁰ 1	13 ⁰ 26	11 ⁰ 3	9 ⁰ 14	20 ⁰ 7	22 ⁰ 57	12 ⁰ 26	18 ⁰ 27	13 ⁰ R32	14 ⁰ 5	28 ⁰ 37	22 ⁰ 6	S 24
M 25	20 11 27	2 ⁰ 5'26	10 ⁰ Ω41	13 ⁰ 24	14 ⁰ 40	11 ⁰ 44	9 ⁰ 17	20 ⁰ 3	22 ⁰ 56	12 ⁰ 29	18 ⁰ 26	13 ⁰ 32	14 ⁰ 2	28 ⁰ 44	22 ⁰ 2	M 25
T 26	20 15 24	3 ⁰ 2'47	24 ⁰ 20	14 ⁰ 51	15 ⁰ 54	12 ⁰ 25	9 ⁰ 21	19 ⁰ 59	22 ⁰ 54	12 ⁰ 31	18 ⁰ 25	13 ⁰ 31	13 ⁰ 59	28 ⁰ 51	21 ⁰ 59	T 26
W 27	20 19 21	4 ⁰ 0'08	8 ⁰ Ω25	16 ⁰ 22	17 ⁰ 8	13 ⁰ 6	9 ⁰ 25	19 ⁰ 55	22 ⁰ 53	12 ⁰ 33	18 ⁰ 24	13 ⁰ 30	13 ⁰ 55	28 ⁰ 57	21 ⁰ 55	W 27
T 28	20 23 17	4 ⁰ 57'30	22 ⁰ 56	17 ⁰ 58	18 ⁰ 22	13 ⁰ 46	9 ⁰ 28	19 ⁰ 51	22 ⁰ 52	12 ⁰ 35	18 ⁰ 23	13 ⁰ 29	13 ⁰ 52	29 ⁰ 4	21 ⁰ 52	T 28
F 29	20 27 14	5 ⁰ 54'53	7 ⁰ Ω47	19 ⁰ 38	19 ⁰ 36	14 ⁰ 27	9 ⁰ 32	19 ⁰ 46	22 ⁰ 50	12 ⁰ 37	18 ⁰ 22	13 ⁰ 28	13 ⁰ 49	29 ⁰ 11	21 ⁰ 48	F 29
S 30	20 31 10	6 ⁰ 52'17	22 ⁰ 53	21 ⁰ 22	20 ⁰ 49	15 ⁰ 7	9 ⁰ 36	19 ⁰ 42	22 ⁰ 49	12 ⁰ 40	18 ⁰ 21	13 ⁰ 28	13 ⁰ 46	29 ⁰ 17	21 ⁰ 45	S 30
S 31	20 35 7	7 ⁰ Ω49'41	8 ⁰ Ω 5	23 ⁰ Ω 9	22 ⁰ Ω 3	15 ⁰ Ω47	9 ⁰ Ω41	19 ⁰ Ω38	22 ⁰ Ω47	12 ⁰ Ω42	18 ⁰ Ω20	13 ⁰ D28	13 ⁰ Ω43	29 ⁰ Ω24	21 ⁰ Ω42	S 31

Delta T = 18.16 sec

Greg. Calendar

AUGUST 1757

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 39 3	8Ω47'06	23≈13	24☼59	23Ω17	16Π28	9Λ45	19°R33	22°R46	12Ω44	18°R19	13Ω28	13Ω40	29☼31	21°R38	M 1
T 2	20 43 0	9°44'32	8✕ 9	26°52	24°31	17° 8	9°50	19≈29	22✕44	12°46	18✕18	13°28	13°36	29°37	21✕35	T 2
W 3	20 46 56	10°42'00	22°45	28°48	25°44	17°48	9°55	19°25	22°43	12°48	18°18	13°28	13°33	29°44	21°32	W 3
T 4	20 50 53	11°39'28	6Υ56	0Ω46	26°58	18°28	9°59	19°20	22°41	12°51	18°17	13°28	13°30	29°51	21°28	T 4
F 5	20 54 50	12°36'58	20°41	2°45	28°12	19° 8	10° 4	19°16	22°40	12°53	18°16	13°28	13°27	29°57	21°25	F 5
S 6	20 58 46	13°34'30	3✕59	4°46	29°26	19°48	10°10	19°11	22°38	12°55	18°15	13°R28	13°24	0Ω 4	21°22	S 6
S 7	21 2 43	14°32'02	16°53	6°48	0Π40	20°27	10°15	19° 7	22°36	12°57	18°15	13°D28	13°20	0°10	21°19	S 7
M 8	21 6 39	15°29'37	29°26	8°50	1°53	21° 7	10°21	19° 2	22°34	13° 0	18°14	13°29	13°17	0°17	21°16	M 8
T 9	21 10 36	16°27'12	11Π43	10°53	3° 7	21°47	10°26	18°58	22°33	13° 2	18°13	13°29	13°14	0°24	21°13	T 9
W10	21 14 32	17°24'49	23°46	12°56	4°21	22°26	10°32	18°53	22°31	13° 4	18°13	13°29	13°11	0°30	21°10	W10
T 11	21 18 29	18°22'28	5☼40	14°59	5°35	23° 6	10°38	18°49	22°29	13° 6	18°12	13°30	13° 8	0°37	21° 7	T 11
F 12	21 22 25	19°20'08	17°29	17° 2	6°49	23°45	10°44	18°44	22°27	13° 8	18°11	13°30	13° 5	0°44	21° 4	F 12
S 13	21 26 22	20°17'50	29°16	19° 4	8° 2	24°24	10°51	18°40	22°25	13°11	18°11	13°31	13° 1	0°50	21° 1	S 13
S 14	21 30 19	21°15'32	11Ω 4	21° 5	9°16	25° 3	10°57	18°35	22°23	13°13	18°10	13°R31	12°58	0°57	20°58	S 14
M15	21 34 15	22°13'17	22°56	23° 5	10°30	25°42	11° 3	18°31	22°21	13°15	18°10	13°31	12°55	1° 4	20°55	M15
T 16	21 38 12	23°11'02	4Π53	25° 4	11°44	26°21	11°10	18°26	22°19	13°17	18°10	13°30	12°52	1°10	20°52	T 16
W17	21 42 8	24° 8'49	16°57	27° 2	12°57	27° 0	11°17	18°22	22°17	13°19	18° 9	13°29	12°49	1°17	20°50	W17
T 18	21 46 5	25° 6'37	29°11	28°59	14°11	27°39	11°24	18°17	22°15	13°22	18° 9	13°28	12°46	1°24	20°47	T 18
F 19	21 50 1	26° 2'17	11☼37	0Π55	15°25	28°18	11°31	18°13	22°13	13°24	18° 8	13°26	12°42	1°30	20°44	F 19
S 20	21 53 58	27° 2'27	24°16	2°49	16°39	28°56	11°38	18° 9	22°11	13°26	18° 8	13°24	12°39	1°37	20°42	S 20
S 21	21 57 54	28° 0'09	7Λ11	4°42	17°52	29°35	11°46	18° 4	22° 9	13°28	18° 8	13°23	12°36	1°44	20°39	S 21
M22	22 1 51	28°58'02	20°25	6°34	19° 6	0☼13	11°53	18° 0	22° 7	13°30	18° 8	13°22	12°33	1°50	20°37	M22
T 23	22 5 48	29°55'57	3✕58	8°25	20°20	0°51	12° 1	17°55	22° 5	13°33	18° 7	13°D22	12°30	1°57	20°34	T 23
W24	22 9 44	0Π53'53	17°52	10°14	21°34	1°29	12° 9	17°51	22° 3	13°35	18° 7	13°22	12°26	2° 3	20°32	W24
T 25	22 13 41	1°51'50	2☼ 7	12° 2	22°47	2° 7	12°16	17°47	22° 0	13°37	18° 7	13°23	12°23	2°10	20°30	T 25
F 26	22 17 37	2°49'48	16°41	13°48	24° 1	2°45	12°25	17°42	21°58	13°39	18° 7	13°25	12°20	2°17	20°27	F 26
S 27	22 21 34	3°47'48	1≈30	15°33	25°15	3°23	12°33	17°38	21°56	13°41	18° 7	13°26	12°17	2°23	20°25	S 27
S 28	22 25 30	4°45'49	16°29	17°17	26°28	4° 1	12°41	17°34	21°54	13°43	18° 7	13°R26	12°14	2°30	20°23	S 28
M29	22 29 27	5°43'52	1✕28	19° 0	27°42	4°39	12°49	17°30	21°51	13°45	18° 7	13°25	12°11	2°37	20°21	M29
T 30	22 33 23	6°41'57	16°21	20°42	28°56	5°16	12°58	17°26	21°49	13°47	18°D 7	13°23	12° 7	2°43	20°19	T 30
W31	22 37 20	7Π40'03	0Υ59	22Π22	0☼ 9	5☼54	13Λ 6	17≈22	21✕47	13Ω49	18✕ 7	13Ω20	12Ω 4	2Ω50	20✕17	W31

ASTRODIENST EPHEMERIS for the year 1757

geocentric

SEPTEMBER 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 41 17	8♉38'11	15♊15	24♈1	1♊23	6♉31	13♈15	17°R18	21°R44	13♈51	18♈7	13°R17	12♈1	2♈57	20°R15	T 1
F 2	22 45 13	9°36'20	29°6	25°39	2°37	7°8	13°24	17°14	21°42	13°54	18°7	13°13	11°58	3°3	20°13	F 2
S 3	22 49 10	10°34'32	12♈31	27°16	3°50	7°45	13°33	17°10	21°40	13°56	18°7	13°10	11°55	3°10	20°12	S 3
S 4	22 53 6	11°32'46	25°29	28°51	5°4	8°22	13°42	17°6	21°37	13°58	18°7	13°8	11°52	3°17	20°10	S 4
M 5	22 57 3	12°31'02	8♈5	0♊25	6°17	8°59	13°51	17°2	21°35	14°0	18°7	13°D7	11°48	3°23	20°8	M 5
T 6	23 0 59	13°29'20	20°21	1°59	7°31	9°36	14°0	16°58	21°33	14°2	18°8	13°7	11°45	3°30	20°7	T 6
W 7	23 4 56	14°27'40	2♉22	3°31	8°45	10°13	14°10	16°54	21°30	14°4	18°8	13°8	11°42	3°37	20°5	W 7
T 8	23 8 52	15°26'03	14°15	5°1	9°58	10°49	14°19	16°51	21°28	14°6	18°8	13°10	11°39	3°43	20°4	T 8
F 9	23 12 49	16°24'27	26°2	6°31	11°12	11°26	14°29	16°47	21°26	14°8	18°8	13°11	11°36	3°50	20°3	F 9
S 10	23 16 45	17°22'54	7♈50	8°0	12°25	12°2	14°39	16°44	21°23	14°9	18°9	13°R12	11°32	3°56	20°1	S 10
S 11	23 20 42	18°21'22	19°41	9°27	13°39	12°38	14°48	16°40	21°21	14°11	18°9	13°12	11°29	4°3	20°0	S 11
M12	23 24 39	19°19'52	1♈38	10°53	14°52	13°14	14°58	16°37	21°18	14°13	18°10	13°11	11°26	4°10	19°59	M12
T 13	23 28 35	20°18'25	13°46	12°18	16°6	13°50	15°8	16°33	21°16	14°15	18°10	13°7	11°23	4°16	19°58	T 13
W14	23 32 32	21°16'59	26°4	13°42	17°19	14°26	15°18	16°30	21°14	14°17	18°10	13°2	11°20	4°23	19°57	W14
T 15	23 36 28	22°15'35	8♈34	15°5	18°33	15°2	15°29	16°27	21°11	14°19	18°11	12°56	11°17	4°30	19°56	T 15
F 16	23 40 25	23°14'14	21°17	16°26	19°46	15°38	15°39	16°24	21°9	14°21	18°12	12°49	11°13	4°36	19°55	F 16
S 17	23 44 21	24°12'54	4♈14	17°46	21°0	16°13	15°49	16°21	21°6	14°23	18°12	12°42	11°10	4°43	19°55	S 17
S 18	23 48 18	25°11'35	17°23	19°5	22°13	16°48	16°0	16°18	21°4	14°24	18°13	12°35	11°7	4°50	19°54	S 18
M19	23 52 14	26°10'19	0♈45	20°22	23°27	17°23	16°10	16°15	21°2	14°26	18°13	12°31	11°4	4°56	19°53	M19
T 20	23 56 11	27°9'04	14°21	21°38	24°40	17°59	16°21	16°12	20°59	14°28	18°14	12°28	11°1	5°3	19°53	T 20
W21	0 0 8	28°7'51	28°10	22°52	25°53	18°33	16°32	16°9	20°57	14°30	18°15	12°D27	10°57	5°10	19°52	W21
T 22	0 4 4	29°6'40	12♈13	24°5	27°7	19°8	16°42	16°6	20°54	14°31	18°15	12°28	10°54	5°16	19°52	T 22
F 23	0 8 1	0♈5'31	26°29	25°15	28°20	19°43	16°53	16°4	20°52	14°33	18°16	12°29	10°51	5°23	19°52	F 23
S 24	0 11 57	1°4'23	10♈56	26°25	29°34	20°17	17°4	16°1	20°50	14°35	18°17	12°R30	10°48	5°29	19°51	S 24
S 25	0 15 54	2°3'17	25°30	27°32	0♈47	20°52	17°15	15°59	20°47	14°36	18°18	12°29	10°45	5°36	19°51	S 25
M26	0 19 50	3°2'12	10♈9	28°37	2°0	21°26	17°26	15°56	20°45	14°38	18°19	12°26	10°42	5°43	19°51	M26
T 27	0 23 47	4°1'10	24°44	29°39	3°14	22°0	17°38	15°54	20°43	14°39	18°20	12°21	10°38	5°49	19°D51	T 27
W28	0 27 43	5°0'09	9♈9	0♈40	4°27	22°34	17°49	15°52	20°40	14°41	18°21	12°14	10°35	5°56	19°51	W28
T 29	0 31 40	5°59'11	23°19	1°37	5°40	23°8	18°0	15°50	20°38	14°43	18°22	12°6	10°32	6°3	19°51	T 29
F 30	0 35 37	6♈58'15	7♈8	2♈32	6♈53	23°541	18♈12	15°48	20°36	14°44	18°22	11°56	10°29	6°9	19°52	F 30

Delta T = 18.20 sec

Greg. Calendar

OCTOBER 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 39 33	7♈57'21	20♈32	3♈24	8♈7	24°15	18♈23	15°R46	20°R33	14♈46	18♈24	11°R48	10♈26	6♈16	19°52	S 1
S 2	0 43 30	8°56'29	3♈33	4°13	9°20	24°48	18°35	15°44	20°31	14°47	18°25	11°41	10°23	6°23	19°52	S 2
M 3	0 47 26	9°55'40	16°10	4°57	10°33	25°21	18°46	15°42	20°29	14°49	18°26	11°36	10°19	6°29	19°53	M 3
T 4	0 51 23	10°54'53	28°28	5°38	11°46	25°54	18°58	15°41	20°27	14°50	18°27	11°33	10°16	6°36	19°53	T 4
W 5	0 55 19	11°54'08	10♈30	6°15	12°59	26°27	19°10	15°39	20°25	14°51	18°28	11°D32	10°13	6°43	19°54	W 5
T 6	0 59 16	12°53'26	22°22	6°46	14°12	26°59	19°22	15°38	20°22	14°53	18°29	11°32	10°10	6°49	19°55	T 6
F 7	1 3 12	13°52'46	4♈10	7°13	15°26	27°32	19°34	15°37	20°20	14°54	18°30	11°33	10°7	6°56	19°55	F 7
S 8	1 7 9	14°52'08	15°59	7°33	16°39	28°4	19°46	15°35	20°18	14°55	18°31	11°R33	10°3	7°3	19°56	S 8
S 9	1 11 5	15°51'32	27°53	7°48	17°52	28°36	19°58	15°34	20°16	14°57	18°33	11°32	10°0	7°9	19°57	S 9
M10	1 15 2	16°50'59	9♈57	7°56	19°5	29°8	20°10	15°33	20°14	14°58	18°34	11°28	9°57	7°16	19°58	M10
T 11	1 18 59	17°50'28	22°14	7°R57	20°18	29°40	20°22	15°32	20°12	14°59	18°35	11°21	9°54	7°22	19°59	T 11
W12	1 22 55	18°49'59	4♈47	7°50	21°31	0♈12	20°34	15°31	20°10	15°0	18°37	11°12	9°51	7°29	20°0	W12
T 13	1 26 52	19°49'32	17°36	7°35	22°44	0°43	20°46	15°31	20°8	15°2	18°38	11°1	9°48	7°36	20°1	T 13
F 14	1 30 48	20°49'07	0♈41	7°11	23°57	1°14	20°59	15°30	20°6	15°3	18°39	10°49	9°44	7°42	20°3	F 14
S 15	1 34 45	21°48'44	14°1	6°39	25°10	1°45	21°11	15°29	20°4	15°4	18°41	10°37	9°41	7°49	20°4	S 15
S 16	1 38 41	22°48'24	27°33	5°58	26°23	2°16	21°24	15°29	20°2	15°5	18°42	10°27	9°38	7°56	20°5	S 16
M17	1 42 38	23°48'05	11♈15	5°9	27°36	2°46	21°36	15°29	20°0	15°6	18°44	10°18	9°35	8°2	20°7	M17
T 18	1 46 34	24°47'48	25°4	4°12	28°49	3°17	21°49	15°28	19°58	15°7	18°45	10°12	9°32	8°9	20°9	T 18
W19	1 50 31	25°47'32	9♈0	3°8	0♈2	3°47	22°1	15°28	19°56	15°8	18°47	10°9	9°29	8°16	20°10	W19
T 20	1 54 28	26°47'19	23°1	1°58	1°15	4°17	22°14	15°D28	19°55	15°9	18°48	10°D8	9°25	8°22	20°12	T 20
F 21	1 58 24	27°47'07	7♈7	0°44	2°27	4°47	22°26	15°28	19°53	15°10	18°50	10°R8	9°22	8°29	20°14	F 21
S 22	2 2 21	28°46'56	21°16	29♈28	3°40	5°16	22°39	15°28	19°51	15°11	18°51	10°8	9°19	8°36	20°16	S 22
S 23	2 6 17	29°46'48	5♈28	28°12	4°53	5°45	22°52	15°29	19°49	15°12	18°53	10°6	9°16	8°42	20°17	S 23
M24	2 10 14	0♈46'41	19°40	26°59	6°6	6°14	23°5	15°29	19°48	15°13	18°55	10°2	9°13	8°49	20°20	M24
T 25	2 14 10	1°46'35	3♈49	25°50	7°18	6°43	23°17	15°30	19°46	15°13	18°56	9°54	9°9	8°55	20°22	T 25
W26	2 18 7	2°46'32	17°51	24°48	8°31	7°12	23°30	15°30	19°45	15°14	18°58	9°44	9°6	9°2	20°24	W26
T 27	2 22 3	3°46'30	1♈41	23°55	9°44	7°40	23°43	15°31	19°43	15°15	19°0	9°32	9°3	9°9	20°26	T 27
F 28	2 26 0	4°46'30	15°15	23°12	10°56	8°8	23°56	15°32	19°42	15°16	19°1	9°19	9°0	9°15	20°28	F 28
S 29	2 29 57	5°46'32	28°31	22°40	12°9	8°36	24°9	15°33	19°40	15°16	19°3	9°6	8°57	9°22	20°31	S 29
S 30	2 33 53	6°46'37	11♈26	22°20	13°21	9°3	24°22	15°34	19°39	15°17	19°5	8°56	8°54	9°29	20°33	S 30
M31	2 37 50	7♈46'43	24♈0	22°D11	14♈34	9♈31	24♈35	15°35	19°37	15°17	19°7	8°47	8°50	9°35	20°36	M31

Delta T = 18.23 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1757
geocentric

NOVEMBER 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 41 46	8♂46'51	6♂17	22♂13	15♂46	9♂58	24♂48	15♂36	19♂36	15♂18	19♂8	8♂42	8♂47	9♂42	20♂38	T 1
W 2	2 45 43	9♂47'01	18°20	22°27	16°59	10°25	25°1	15°37	19♂35	15°19	19°10	8♂39	8°44	9°49	20°41	W 2
T 3	2 49 39	10°47'14	0♂12	22°50	18°11	10°51	25°14	15°38	19°34	15°19	19°12	8°38	8°41	9°55	20°43	T 3
F 4	2 53 36	11°47'28	12°0	23°23	19°24	11°17	25°28	15°40	19°32	15°20	19°14	8°37	8°38	10°2	20°46	F 4
S 5	2 57 32	12°47'45	23°49	24°4	20°36	11°43	25°41	15°42	19°31	15°20	19°16	8°37	8°34	10°9	20°49	S 5
S 6	3 1 29	13°48'03	5♂44	24°53	21°48	12°9	25°54	15°43	19°30	15°20	19°18	8°36	8°31	10°15	20°52	S 6
M 7	3 5 26	14°48'24	17°51	25°49	23°0	12°34	26°7	15°45	19°29	15°21	19°20	8°32	8°28	10°22	20°55	M 7
T 8	3 9 22	15°48'46	0♂14	26°51	24°13	12°59	26°20	15°47	19°28	15°21	19°22	8°25	8°25	10°28	20°58	T 8
W 9	3 13 19	16°49'10	12°56	27°58	25°25	13°24	26°34	15°49	19°27	15°21	19°24	8°16	8°22	10°35	21°1	W 9
T 10	3 17 15	17°49'36	26°0	29°9	26°37	13°48	26°47	15°51	19°26	15°22	19°26	8°5	8°19	10°42	21°4	T 10
F 11	3 21 12	18°50'04	9♂24	0♂24	27°49	14°12	27°0	15°53	19°25	15°22	19°28	7°52	8°15	10°48	21°7	F 11
S 12	3 25 8	19°50'34	23°8	1°42	29°1	14°36	27°13	15°56	19°24	15°22	19°30	7°39	8°12	10°55	21°10	S 12
S 13	3 29 5	20°51'05	7♂6	3°3	0♂13	14°59	27°27	15°58	19°23	15°22	19°32	7°28	8°9	11°2	21°14	S 13
M14	3 33 1	21°51'37	21°15	4°27	1°25	15°22	27°40	16°0	19°23	15°22	19°34	7°19	8°6	11°8	21°17	M14
T 15	3 36 58	22°52'12	5♂29	5°52	2°37	15°45	27°53	16°3	19°22	15°23	19°36	7°12	8°3	11°15	21°21	T 15
W16	3 40 55	23°52'47	19°44	7°19	3°49	16°7	28°7	16°6	19°21	15°23	19°38	7°9	8°0	11°22	21°24	W16
T 17	3 44 51	24°53'24	3♂57	8°48	5°1	16°29	28°20	16°9	19°21	15°R23	19°40	7°D 8	7°56	11°28	21°28	T 17
F 18	3 48 48	25°54'02	18°6	10°17	6°12	16°50	28°34	16°11	19°20	15°23	19°42	7°8	7°53	11°35	21°31	F 18
S 19	3 52 44	26°54'41	2♂10	11°47	7°24	17°11	28°47	16°14	19°20	15°23	19°44	7°R 8	7°50	11°42	21°35	S 19
S 20	3 56 41	27°55'20	16°8	13°18	8°36	17°32	29°0	16°17	19°19	15°23	19°46	7°7	7°47	11°48	21°39	S 20
M21	4 0 37	28°56'01	29°59	14°50	9°47	17°52	29°14	16°21	19°19	15°22	19°48	7°3	7°44	11°55	21°42	M21
T 22	4 4 34	29°56'44	13°Y43	16°22	10°59	18°12	29°27	16°24	19°19	15°22	19°50	6°57	7°40	12°2	21°46	T 22
W23	4 8 30	0♂57'27	27°19	17°55	12°10	18°32	29°41	16°27	19°18	15°22	19°53	6°48	7°37	12°8	21°50	W23
T 24	4 12 27	1°58'11	10♂43	19°28	13°21	18°51	29°54	16°31	19°18	15°22	19°55	6°37	7°34	12°15	21°54	T 24
F 25	4 16 24	2°58'57	23°55	21°1	14°33	19°9	0♂7	16°34	19°18	15°22	19°57	6°25	7°31	12°21	21°58	F 25
S 26	4 20 20	3°59'44	6♂52	22°34	15°44	19°27	0°21	16°38	19°18	15°21	19°59	6°14	7°28	12°28	22°2	S 26
S 27	4 24 17	5°0'32	19°33	24°7	16°55	19°45	0°34	16°41	19°18	15°21	20°1	6°4	7°25	12°35	22°6	S 27
M28	4 28 13	6°1'21	1♂59	25°41	18°6	20°2	0°47	16°45	19°D17	15°21	20°3	5°56	7°21	12°41	22°10	M28
T 29	4 32 10	7°2'12	14°11	27°14	19°17	20°19	1°1	16°49	19°17	15°20	20°6	5°51	7°18	12°48	22°14	T 29
W30	4 36 6	8♂3'04	26♂11	28♂48	20♂28	20♂35	1♂14	16♂53	19♂18	15♂20	20♂8	5♂49	7♂15	12♂55	22♂18	W30

Delta T = 18.25 sec

Greg. Calendar

DECEMBER 1757

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 40 3	9♂3'57	8♂2	0♂21	21♂38	20♂51	1♂28	16♂57	19♂18	15°R20	20♂10	5°D48	7♂12	13♂1	22♂23	T 1
F 2	4 43 59	10°4'52	19°50	1°55	22°49	21°6	1°41	17°1	19°18	15♂19	20°12	5♂49	7°9	13°8	22°27	F 2
S 3	4 47 56	11°5'48	1♂38	3°29	24°0	21°21	1°54	17°5	19°18	15°19	20°14	5°50	7°6	13°15	22°31	S 3
S 4	4 51 53	12°6'45	13°32	5°3	25°10	21°35	2°7	17°9	19°18	15°18	20°17	5°R50	7°2	13°21	22°35	S 4
M 5	4 55 49	13°7'43	25°38	6°36	26°20	21°49	2°21	17°14	19°19	15°17	20°19	5°49	6°59	13°28	22°40	M 5
T 6	4 59 46	14°8'42	8♂0	8°10	27°31	22°2	2°34	17°18	19°19	15°17	20°21	5°46	6°56	13°35	22°44	T 6
W 7	5 3 42	15°9'43	20°44	9°44	28°41	22°14	2°47	17°23	19°19	15°16	20°23	5°41	6°53	13°41	22°49	W 7
T 8	5 7 39	16°10'44	3♂52	11°18	29°51	22°26	3°1	17°27	19°20	15°16	20°26	5°34	6°50	13°48	22°53	T 8
F 9	5 11 35	17°11'47	17°26	12°52	1♂1	22°38	3°14	17°32	19°20	15°15	20°28	5°26	6°46	13°54	22°58	F 9
S 10	5 15 32	18°12'51	1♂23	14°26	2°11	22°48	3°27	17°37	19°21	15°14	20°30	5°18	6°43	14°1	23°2	S 10
S 11	5 19 28	19°13'56	15°42	16°0	3°20	22°58	3°40	17°42	19°22	15°13	20°32	5°10	6°40	14°8	23°7	S 11
M12	5 23 25	20°15'01	0♂15	17°34	4°30	23°8	3°53	17°46	19°22	15°13	20°35	5°4	6°37	14°14	23°12	M12
T 13	5 27 22	21°16'07	14°56	19°8	5°39	23°17	4°7	17°51	19°23	15°12	20°37	5°0	6°34	14°21	23°16	T 13
W14	5 31 18	22°17'14	29°39	20°43	6°49	23°25	4°20	17°56	19°24	15°11	20°39	4°D58	6°31	14°28	23°21	W14
T 15	5 35 15	23°18'21	14♂16	22°17	7°58	23°32	4°33	18°2	19°25	15°10	20°41	4°59	6°27	14°34	23°26	T 15
F 16	5 39 11	24°19'28	28°42	23°52	9°7	23°39	4°46	18°7	19°25	15°9	20°44	5°0	6°24	14°41	23°31	F 16
S 17	5 43 8	25°20'35	12♂55	25°27	10°16	23°45	4°59	18°12	19°26	15°8	20°46	5°1	6°21	14°48	23°36	S 17
S 18	5 47 4	26°21'43	26°54	27°2	11°25	23°51	5°12	18°17	19°27	15°7	20°48	5°R 2	6°18	14°54	23°40	S 18
M19	5 51 1	27°22'50	10°Y37	28°38	12°33	23°56	5°25	18°23	19°28	15°6	20°50	5°1	6°15	15°1	23°45	M19
T 20	5 54 57	28°23'58	24°6	0♂13	13°42	24°0	5°38	18°28	19°29	15°5	20°53	4°58	6°12	15°8	23°50	T 20
W21	5 58 54	29°25'06	7♂21	1°49	14°50	24°3	5°50	18°34	19°31	15°4	20°55	4°54	6°8	15°14	23°55	W21
T 22	6 2 51	0♂26'14	20°22	3°25	15°58	24°6	6°3	18°39	19°32	15°3	20°57	4°49	6°5	15°21	24°0	T 22
F 23	6 6 47	1°27'22	3♂11	5°1	17°6	24°7	6°16	18°45	19°33	15°2	20°59	4°42	6°2	15°28	24°5	F 23
S 24	6 10 44	2°28'30	15°47	6°37	18°13	24°9	6°29	18°50	19°34	15°1	21°2	4°37	5°59	15°34	24°10	S 24
S 25	6 14 40	3°29'39	28°11	8°14	19°21	24°R 9	6°42	18°56	19°36	15°0	21°4	4°31	5°56	15°41	24°15	S 25
M26	6 18 37	4°30'48	10♂24	9°51	20°28	24°8	6°54	19°2	19°37	14°59	21°6	4°28	5°52	15°47	24°20	M26
T 27	6 22 33	5°31'57	22°27	11°28	21°35	24°7	7°7	19°8	19°38	14°57	21°8	4°25	5°49	15°54	24°25	T 27
W28	6 26 30	6°33'06	4♂22	13°6	22°42	24°5	7°19	19°14	19°40	14°56	21°10	4°D25	5°46	16°1	24°30	W28
T 29	6 30 27	7°34'15	16°11	14°44	23°49	24°2	7°32	19°20	19°41	14°55	21°13	4°25	5°43	16°7	24°35	T 29
F 30	6 34 23	8°35'24	27°58	16°22	24°55	23°59	7°44	19°26	19°43	14°54	21°15	4°27	5°40	16°14	24°41	F 30
S 31	6 38 20	9♂36'34	9♂46	18♂0	26♂1	23♂55	7♂57	19♂32	19♂45	14♂52	21♂17	4♂29	5♂37	16♂21	24♂46	S 31

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