



Astrodienst Ephemeris Tables for the year 1717

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 1717
geocentric

JANUARY 1717

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 42 1	10°35'11	26°27	1°35	29°54	3°30	24°R30	18°54	0°51	11°R 4	12°R31	18°R52	18°53	28°8	1°2	F 1
S 2	6 45 57	11°36'20	10°31	2°38	1°7	4°5	24°II22	18°57	0°51	11°R 3	12°31	18°46	18°30	28°15	1°5	S 2
S 3	6 49 54	12°37'29	24°4	4°12	2°18	4°40	24°15	19°0	0°51	11°3	12°30	18°43	18°27	28°22	1°8	S 3
M 4	6 53 51	13°38'39	7°9	5°46	3°30	5°15	24°8	19°2	0°51	11°2	12°30	18°42	18°23	28°29	1°11	M 4
T 5	6 57 47	14°39'48	19°49	7°21	4°42	5°50	24°0	19°5	0°R51	11°2	12°29	18°42	18°20	28°35	1°14	T 5
W 6	7 1 44	15°40'58	2°9	8°56	5°54	6°25	23°53	19°7	0°51	11°1	12°28	18°42	18°17	28°42	1°17	W 6
T 7	7 5 40	16°42'08	14°15	10°31	7°6	7°0	23°46	19°9	0°51	11°1	12°27	18°40	18°14	28°49	1°20	T 7
F 8	7 9 37	17°43'17	26°12	12°7	8°18	7°35	23°39	19°12	0°51	11°0	12°27	18°35	18°11	28°55	1°23	F 8
S 9	7 13 33	18°44'27	8°3	13°44	9°31	8°9	23°33	19°14	0°51	11°0	12°26	18°28	18°8	29°2	1°27	S 9
S 10	7 17 30	19°45'36	19°53	15°20	10°43	8°44	23°26	19°16	0°50	10°59	12°25	18°17	18°4	29°9	1°30	S 10
M 11	7 21 26	20°46'45	1°34	16°58	11°56	9°18	23°20	19°18	0°50	10°59	12°24	18°4	18°1	29°16	1°33	M 11
T 12	7 25 23	21°47'53	13°38	18°36	13°8	9°53	23°13	19°19	0°50	10°59	12°24	17°49	17°58	29°22	1°36	T 12
W 13	7 29 20	22°49'01	25°36	20°14	14°21	10°27	23°7	19°21	0°49	10°58	12°23	17°34	17°55	29°29	1°40	W 13
T 14	7 33 16	23°50'09	7°39	21°53	15°33	11°2	23°1	19°23	0°49	10°58	12°22	17°20	17°52	29°36	1°43	T 14
F 15	7 37 13	24°51'16	19°49	23°32	16°46	11°36	22°55	19°24	0°48	10°58	12°21	17°7	17°48	29°42	1°47	F 15
S 16	7 41 9	25°52'22	2°7	25°12	17°59	12°10	22°49	19°25	0°48	10°58	12°20	16°57	17°45	29°49	1°50	S 16
S 17	7 45 6	26°53'27	14°34	26°53	19°12	12°44	22°44	19°27	0°47	10°57	12°19	16°50	17°42	29°56	1°53	S 17
M 18	7 49 2	27°54'31	27°12	28°34	20°24	13°18	22°38	19°28	0°46	10°57	12°18	16°47	17°39	0°3	1°57	M 18
T 19	7 52 59	28°55'34	10°5	0°16	21°37	13°52	22°33	19°29	0°46	10°57	12°17	16°45	17°36	0°9	2°0	T 19
W 20	7 56 55	29°56'37	23°16	1°58	22°50	14°26	22°28	19°30	0°45	10°57	12°16	16°45	17°33	0°16	2°4	W 20
T 21	8 0 52	0°57'38	6°47	3°41	24°3	15°0	22°23	19°31	0°44	10°D57	12°15	16°45	17°29	0°23	2°7	T 21
F 22	8 4 49	1°58'38	20°41	5°24	25°16	15°34	22°18	19°31	0°43	10°57	12°14	16°44	17°26	0°29	2°11	F 22
S 23	8 8 45	2°59'37	4°59	7°8	26°29	16°7	22°14	19°32	0°42	10°57	12°12	16°40	17°23	0°36	2°15	S 23
S 24	8 12 42	4°0'34	19°39	8°52	27°42	16°41	22°9	19°32	0°41	10°57	12°11	16°34	17°20	0°43	2°18	S 24
M 25	8 16 38	5°1'31	4°37	10°37	28°55	17°14	22°5	19°33	0°40	10°57	12°10	16°26	17°17	0°50	2°22	M 25
T 26	8 20 35	6°2'26	19°44	12°23	0°8	17°48	22°1	19°33	0°39	10°58	12°9	16°15	17°14	0°56	2°26	T 26
W 27	8 24 31	7°3'21	4°51	14°8	1°22	18°21	21°57	19°33	0°38	10°58	12°8	16°4	17°10	1°3	2°29	W 27
T 28	8 28 28	8°4'14	19°46	15°55	2°35	18°54	21°53	19°R33	0°36	10°58	12°7	15°54	17°7	1°10	2°33	T 28
F 29	8 32 25	9°5'06	4°22	17°41	3°48	19°28	21°50	19°33	0°35	10°58	12°5	15°46	17°4	1°16	2°37	F 29
S 30	8 36 21	10°5'57	18°32	19°27	5°1	20°1	21°47	19°33	0°34	10°59	12°4	15°40	17°1	1°23	2°41	S 30
S 31	8 40 18	11°6'47	2°13	21°14	6°15	20°34	21°II44	19°53	0°33	10°59	12°3	15°38	16°58	1°30	2°44	S 31

Delta T = 10.61 sec

Greg. Calendar

FEBRUARY 1717

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 44 14	12°7'36	15°25	23°0	7°28	21°7	21°R41	19°R33	0°R31	10°R59	12°R 1	15°D37	16°54	1°37	2°48	M 1
T 2	8 48 11	13°8'25	28°12	24°46	8°41	21°39	21°II38	19°52	0°30	11°0	12°0	15°37	16°51	1°43	2°52	T 2
W 3	8 52 7	14°9'12	10°37	26°31	9°55	22°12	21°35	19°32	0°28	11°0	11°59	15°R38	16°48	1°50	2°56	W 3
T 4	8 56 4	15°9'58	22°46	28°15	11°8	22°45	21°33	19°31	0°27	11°1	11°57	15°37	16°45	1°57	3°0	T 4
F 5	9 0 0	16°10'44	4°43	29°59	12°22	23°17	21°31	19°30	0°25	11°1	11°56	15°35	16°42	2°3	3°4	F 5
S 6	9 3 57	17°11'28	16°35	1°40	13°35	23°50	21°29	19°29	0°23	11°2	11°55	15°31	16°39	2°10	3°8	S 6
S 7	9 7 53	18°12'11	28°25	3°20	14°49	24°22	21°27	19°28	0°22	11°2	11°53	15°24	16°35	2°17	3°12	S 7
M 8	9 11 50	19°12'53	10°17	4°57	16°2	24°54	21°26	19°27	0°20	11°3	11°52	15°15	16°32	2°24	3°15	M 8
T 9	9 15 47	20°13'34	22°15	6°32	17°16	25°26	21°24	19°26	0°18	11°3	11°50	15°5	16°29	2°30	3°19	T 9
W 10	9 19 43	21°14'14	4°19	8°3	18°29	25°58	21°23	19°25	0°17	11°4	11°49	14°54	16°26	2°37	3°23	W 10
T 11	9 23 40	22°14'52	16°33	9°29	19°43	26°30	21°22	19°23	0°15	11°5	11°47	14°43	16°23	2°44	3°27	T 11
F 12	9 27 36	23°15'28	28°56	10°51	20°56	27°2	21°22	19°22	0°13	11°6	11°46	14°34	16°20	2°50	3°31	F 12
S 13	9 31 33	24°16'03	11°29	12°8	22°10	27°34	21°21	19°20	0°11	11°6	11°44	14°27	16°16	2°57	3°35	S 13
S 14	9 35 29	25°16'36	24°13	13°19	23°24	28°5	21°21	19°19	0°9	11°7	11°43	14°23	16°13	3°4	3°39	S 14
M 15	9 39 26	26°17'08	7°8	14°23	24°37	28°36	21°D21	19°17	0°7	11°8	11°41	14°21	16°10	3°11	3°43	M 15
T 16	9 43 22	27°17'38	20°15	15°19	25°51	29°8	21°21	19°15	0°5	11°9	11°40	14°D21	16°7	3°17	3°47	T 16
W 17	9 47 19	28°18'06	3°36	16°7	27°5	29°39	21°21	19°13	0°3	11°10	11°38	14°22	16°4	3°24	3°51	W 17
T 18	9 51 16	29°18'32	17°11	16°47	28°18	0°10	21°22	19°11	0°1	11°11	11°37	14°23	16°0	3°31	3°55	T 18
F 19	9 55 12	0°18'56	1°1	17°17	29°32	0°40	21°22	19°9	29°59	11°12	11°35	14°R24	15°57	3°38	3°59	F 19
S 20	9 59 9	1°19'19	15°8	17°38	0°46	1°11	21°23	19°6	29°57	11°13	11°34	14°23	15°54	3°44	4°3	S 20
S 21	10 3 5	2°19'39	29°29	17°49	1°59	1°42	21°24	19°4	29°54	11°14	11°32	14°20	15°51	3°51	4°7	S 21
M 22	10 7 2	3°19'57	14°3	17°R50	3°13	2°12	21°26	19°1	29°52	11°15	11°31	14°15	15°48	3°58	4°11	M 22
T 23	10 10 58	4°20'14	28°43	17°42	4°27	2°42	21°27	18°59	29°50	11°16	11°29	14°10	15°45	4°4	4°15	T 23
W 24	10 14 55	5°20'28	13°24	17°24	5°41	3°12	21°29	18°56	29°48	11°17	11°28	14°3	15°41	4°11	4°19	W 24
T 25	10 18 51	6°20'40	27°58	16°57	6°54	3°42	21°31	18°54	29°45	11°18	11°26	13°58	15°38	4°18	4°23	T 25
F 26	10 22 48	7°20'51	12°19	16°22	8°8	4°12	21°33	18°51	29°43	11°19	11°24	13°53	15°35	4°25	4°27	F 26
S 27	10 26 45	8°20'59	26°19	15°39	9°22	4°42	21°35	18°48	29°41	11°21	11°23	13°50	15°32	4°31	4°31	S 27
S 28	10 30 41	9°21'06	9°57	14°50	10°36	5°11	21°37	18°45	29°38	11°22	11°21	13°D49	15°29	4°38	4°35	S 28

Delta T = 10.60 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1717

geocentric

MARCH 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 34 38	10°11'11"	23°11'11"	13°R56	11°49'49"	5°14'41"	21°11'40"	18°R42	29°R36	11°18'23"	11°R20	13°14'49"	15°14'25"	4°13'45"	4°13'39"	M 1
T 2	10 38 34	11°21'15"	6°11'11"	12°15'58"	13° 3'	6°10'	21°43'	18°14'39"	29°11'33"	11°24'	11°11'18"	13°50'	15°22'	4°51'	4°43'	T 2
W 3	10 42 31	12°21'17"	18°31'	11°58'	14°17'	6°39'	21°46'	18°36'	29°31'	11°26'	11°16'	13°52'	15°19'	4°58'	4°47'	W 3
T 4	10 46 27	13°21'17"	0°14'45"	10°57'	15°31'	7° 7'	21°49'	18°32'	29°29'	11°27'	11°15'	13°53'	15°16'	5° 5'	4°51'	T 4
F 5	10 50 24	14°21'16"	12°46'	9°57'	16°45'	7°36'	21°52'	18°29'	29°26'	11°28'	11°13'	13°R54	15°13'	5°12'	4°55'	F 5
S 6	10 54 20	15°21'13"	24°40'	8°59'	17°58'	8° 5'	21°56'	18°25'	29°24'	11°30'	11°12'	13°54'	15°10'	5°18'	4°59'	S 6
S 7	10 58 17	16°21'08"	6°33'2"	8° 4'	19°12'	8°33'	22° 0'	18°22'	29°21'	11°31'	11°10'	13°52'	15° 6'	5°25'	5° 3'	S 7
M 8	11 2 14	17°21'02"	18°26'	7°12'	20°26'	9° 1'	22° 4'	18°18'	29°19'	11°33'	11° 9'	13°49'	15° 3'	5°32'	5° 7'	M 8
T 9	11 6 10	18°20'54"	0°26'6"	6°26'	21°40'	9°29'	22° 8'	18°15'	29°16'	11°34'	11° 7'	13°45'	15° 0'	5°39'	5°11'	T 9
W10	11 10 7	19°20'44"	12°36'	5°45'	22°54'	9°56'	22°12'	18°11'	29°14'	11°36'	11° 5'	13°41'	14°57'	5°45'	5°15'	W10
T11	11 14 3	20°20'32"	24°58'	5° 9'	24° 8'	10°24'	22°16'	18° 7'	29°11'	11°37'	11° 4'	13°37'	14°54'	5°52'	5°19'	T11
F12	11 18 0	21°20'19"	7°13'34"	4°40'	25°22'	10°51'	22°21'	18° 3'	29° 8'	11°39'	11° 2'	13°34'	14°51'	5°59'	5°23'	F12
S13	11 21 56	22°20'03"	20°25'	4°17'	26°35'	11°18'	22°26'	18° 0'	29° 6'	11°40'	11° 1'	13°31'	14°47'	6° 5'	5°27'	S13
S14	11 25 53	23°19'46"	3°19'29"	4° 1'	27°49'	11°44'	22°31'	17°56'	29° 3'	11°42'	10°59'	13°30'	14°44'	6°12'	5°31'	S14
M15	11 29 49	24°19'26"	16°48'	3°51'	29° 3'	12°11'	22°36'	17°52'	29° 1'	11°44'	10°58'	13°D29	14°41'	6°19'	5°34'	M15
T16	11 33 46	25°19'04"	0°19'19"	3°D47	0°17'17"	12°37'	22°41'	17°48'	28°58'	11°45'	10°56'	13°30'	14°38'	6°26'	5°38'	T16
W17	11 37 42	26°18'40"	14°54'	3°49'	1°31'	13° 3'	22°47'	17°43'	28°55'	11°47'	10°55'	13°31'	14°35'	6°32'	5°42'	W17
T18	11 41 39	27°18'14"	27° 2'	3°56'	2°45'	13°29'	22°52'	17°39'	28°53'	11°49'	10°53'	13°33'	14°31'	6°39'	5°46'	T18
F19	11 45 36	28°17'46"	11°11'55"	4°10'	3°59'	13°54'	22°58'	17°35'	28°50'	11°50'	10°52'	13°34'	14°28'	6°46'	5°50'	F19
S20	11 49 32	29°17'15"	26° 3'	4°28'	5°12'	14°19'	23° 4'	17°31'	28°48'	11°52'	10°50'	13°R34	14°25'	6°52'	5°53'	S20
S21	11 53 29	0°16'42"	10°16'42"	4°51'	6°26'	14°44'	23°10'	17°27'	28°45'	11°54'	10°49'	13°34'	14°22'	6°59'	5°57'	S21
M22	11 57 25	1°16'07"	24°31'	5°19'	7°40'	15° 9'	23°17'	17°22'	28°42'	11°56'	10°47'	13°33'	14°19'	7° 6'	6° 1'	M22
T23	12 1 22	2°15'29"	8°12'47"	5°52'	8°54'	15°33'	23°23'	17°18'	28°40'	11°58'	10°46'	13°32'	14°16'	7°13'	6° 5'	T23
W24	12 5 18	3°14'49"	22°59'	6°28'	10° 8'	15°58'	23°30'	17°13'	28°37'	11°59'	10°44'	13°31'	14°12'	7°19'	6° 8'	W24
T25	12 9 15	4°14'06"	7°11'3	7° 9'	11°22'	16°21'	23°36'	17° 9'	28°35'	12° 1'	10°43'	13°29'	14° 9'	7°26'	6°12'	T25
F26	12 13 11	5°13'21"	20°57'	7°53'	12°35'	16°45'	23°43'	17° 5'	28°32'	12° 3'	10°41'	13°29'	14° 6'	7°33'	6°16'	F26
S27	12 17 8	6°12'35"	4°12'36"	8°41'	13°49'	17° 8'	23°50'	17° 0'	28°29'	12° 5'	10°40'	13°28'	14° 3'	7°39'	6°19'	S27
S28	12 21 5	7°11'46"	17°58'	9°32'	15° 3'	17°31'	23°57'	16°56'	28°27'	12° 7'	10°39'	13°D28	14° 0'	7°46'	6°23'	S28
M29	12 25 1	8°10'55"	1°11'24"	10°27'	16°17'	17°54'	24° 5'	16°51'	28°24'	12° 9'	10°37'	13°28'	13°57'	7°53'	6°26'	M29
T30	12 28 58	9°10'02"	13°48'	11°24'	17°31'	18°16'	24°12'	16°46'	28°22'	12°11'	10°36'	13°29'	13°53'	8° 0'	6°30'	T30
W31	12 32 54	10°10'07"	26°11'17"	12°14'24"	18°14'45"	18°14'38"	24°11'20"	16°14'42"	28°19'19"	12°13'13"	10°34'34"	13°14'29"	13°14'50"	8°13'28"	6°14'33"	W31

Delta T = 10.60 sec

Greg. Calendar

APRIL 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 36 51	11°10'8"	8°12'32"	13°13'27"	19°15'58"	18°14'59"	24°11'27"	16°R37	28°R17	12°18'15"	10°R33	13°14'29"	13°14'47"	8°13'13"	6°13'37"	T 1
F 2	12 40 47	12° 7'12"	20°35'	14°32'	21°12'	19°21'	24°35'	16°14'33"	28°11'14"	12°17'	10°32'	13°30'	13°44'	8°20'	6°40'	F 2
S 3	12 44 44	13° 6'12"	2°33'11"	15°40'	22°26'	19°42'	24°43'	16°28'	28°12'	12°19'	10°31'	13°30'	13°41'	8°27'	6°44'	S 3
S 4	12 48 40	14° 5'10"	14°24'	16°50'	23°40'	20° 2'	24°51'	16°23'	28° 9'	12°21'	10°29'	13°30'	13°37'	8°33'	6°47'	S 4
M 5	12 52 37	15° 4'07"	26°19'	18° 3'	24°54'	20°22'	25° 0'	16°19'	28° 7'	12°23'	10°28'	13°30'	13°34'	8°40'	6°50'	M 5
T 6	12 56 34	16° 3'01"	8°22'20"	19°17'	26° 7'	20°42'	25° 8'	16°14'	28° 4'	12°25'	10°27'	13°30'	13°31'	8°47'	6°54'	T 6
W 7	13 0 30	17° 1'54"	20°32'	20°34'	27°21'	21° 1'	25°16'	16°10'	28° 2'	12°27'	10°26'	13°30'	13°28'	8°53'	6°57'	W 7
T 8	13 4 27	18° 4'27"	21°58'	21°53'	28°35'	21°20'	25°25'	16° 5'	27°59'	12°29'	10°24'	13°31'	13°25'	9° 0'	7° 0'	T 8
F 9	13 8 23	18°59'34"	15°42'	23°13'	29°49'	21°39'	25°34'	16° 0'	27°57'	12°31'	10°23'	13°31'	13°22'	9° 7'	7° 3'	F 9
S10	13 12 20	19°58'21"	28°45'	24°36'	1°19'3	21°57'	25°43'	15°56'	27°55'	12°33'	10°22'	13°32'	13°18'	9°14'	7° 7'	S10
S11	13 16 16	20°57'07"	12°19'8"	26° 0'	2°17'	22°14'	25°52'	15°51'	27°52'	12°35'	10°21'	13°R32	13°15'	9°20'	7°10'	S11
M12	13 20 13	21°55'50"	25°49'	27°26'	3°30'	22°32'	26° 1'	15°46'	27°50'	12°38'	10°20'	13°32'	13°12'	9°27'	7°13'	M12
T13	13 24 9	22°54'32"	9°18'47"	28°54'	4°44'	22°48'	26°10'	15°42'	27°48'	12°40'	10°19'	13°31'	13° 9'	9°34'	7°16'	T13
W14	13 28 6	23°53'11"	23°58'	0°19'24"	5°58'	23° 5'	26°19'	15°37'	27°46'	12°42'	10°18'	13°30'	13° 6'	9°40'	7°19'	W14
T15	13 32 2	24°51'48"	8°11'18"	1°56'	7°12'	23°20'	26°29'	15°33'	27°43'	12°44'	10°17'	13°29'	13° 2'	9°47'	7°22'	T15
F16	13 35 59	25°50'24"	22°40'	3°29'	8°26'	23°36'	26°38'	15°28'	27°41'	12°46'	10°16'	13°27'	12°59'	9°54'	7°25'	F16
S17	13 39 56	26°48'57"	7°12'2	5° 4'	9°39'	23°50'	26°48'	15°24'	27°39'	12°48'	10°15'	13°26'	12°56'	10° 1'	7°28'	S17
S18	13 43 52	27°47'28"	21°20'	6°41'	10°53'	24° 5'	26°58'	15°19'	27°37'	12°51'	10°14'	13°D25	12°53'	10° 7'	7°31'	S18
M19	13 47 49	28°45'56"	5°12'30"	8°19'	12° 7'	24°18'	27° 8'	15°15'	27°35'	12°53'	10°13'	13°25'	12°50'	10°14'	7°34'	M19
T20	13 51 45	29°44'23"	19°30'	9°59'	13°21'	24°32'	27°18'	15°10'	27°33'	12°55'	10°12'	13°26'	12°47'	10°21'	7°36'	T20
W21	13 55 42	0°14'24"	3°11'20"	11°41'	14°34'	24°44'	27°28'	15° 6'	27°31'	12°57'	10°11'	13°27'	12°43'	10°28'	7°39'	W21
T22	13 59 38	1°41'09"	16°58'	13°25'	15°48'	24°57'	27°38'	15° 2'	27°29'	12°59'	10°10'	13°29'	12°40'	10°34'	7°42'	T22
F23	14 3 35	2°39'29"	0°14'24"	15°10'	17° 2'	25° 8'	27°48'	14°57'	27°27'	13° 2'	10° 9'	13°30'	12°37'	10°41'	7°44'	F23
S24	14 7 31	3°37'47"	13°37'	16°57'	18°15'	25°19'	27°58'	14°53'	27°25'	13° 4'	10° 8'	13°R30	12°34'	10°48'	7°47'	S24
S25	14 11 28	4°36'03"	26°37'	18°46'	19°29'	25°30'	28° 9'	14°49'	27°23'	13° 6'	10° 8'	13°30'	12°31'	10°54'	7°50'	S25
M26	14 15 25	5°34'17"	9°11'24"	20°36'	20°43'	25°40'	28°19'	14°45'	27°21'	13° 8'	10° 7'	13°28'	12°28'	11° 1'	7°52'	M26
T27	14 19 21	6°32'30"	21°59'	22°28'	21°57'	25°49'	28°30'	14°41'	27°19'	13°10'	10° 6'	13°25'	12°24'	11° 8'	7°55'	T27
W28	14 23 18	7°30'41"	4°12'20"	24°22'	23°10'	25°57'	28°41'	14°37'	27°17'	13°13'	10° 5'	13°22'	12°21'	11°15'	7°57'	W28
T29	14 27 14	8°28'50"	16°31'	26°18'	24°24'	26° 5'	28°52'	14°32'	27°15'	13°15'	10° 5'	13°18'	12°18'	11°21'	8° 0'	T29
F30	14 31 11	9°26'58"	28°13'33"	28°19'16"	25°19'38"	26°14'13"	29°11'2	14°14'28"	27°14'14"	13°18'17"	10°14'34"	13°14'13"	12°14'15"	11°13'28"	8°14'2	F30

Delta T = 10.59 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1717
geocentric

MAY 1717

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 35 7	10♂25'04	10♂29	0♂15	26♂51	26♂20	29♂13	14°R25	27°R12	13♂19	10°R 3	13°R10	12♂12	11♂35	8♂4	S 1
S 2	14 39 4	11°23'09	22°22	2°16	28° 5	26°26	29°25	14♂21	27♂10	13°22	10♂3	13♂7	12° 8	11°42	8° 6	S 2
M 3	14 43 0	12°21'12	4♂16	4°18	29°19	26°31	29°36	14°17	27° 9	13°24	10° 2	13° 5	12° 5	11°48	8° 9	M 3
T 4	14 46 57	13°19'14	16°16	6°22	0♂32	26°36	29°47	14°13	27° 7	13°26	10° 2	13°D 5	12° 2	11°55	8°11	T 4
W 5	14 50 54	14°17'15	28°26	8°28	1°46	26°40	29°58	14° 9	27° 6	13°29	10° 1	13° 6	11°59	12° 2	8°13	W 5
T 6	14 54 50	15°15'14	10♂52	10°34	3° 0	26°43	0♂10	14° 6	27° 4	13°31	10° 1	13° 7	11°56	12° 8	8°15	T 6
F 7	14 58 47	16°13'12	23°37	12°42	4°14	26°46	0°21	14° 2	27° 3	13°33	10° 0	13° 9	11°53	12°15	8°17	F 7
S 8	15 2 43	17°11'08	6°45	14°51	5°27	26°47	0°33	13°59	27° 1	13°35	10° 0	13°R10	11°49	12°22	8°19	S 8
S 9	15 6 40	18° 9'03	20°17	17° 1	6°41	26°49	0°44	13°55	27° 0	13°38	9°59	13°10	11°46	12°29	8°21	S 9
M10	15 10 36	19° 6'57	4♂14	19°12	7°55	26°R49	0°56	13°52	26°59	13°40	9°59	13° 8	11°43	12°35	8°23	M10
T 11	15 14 33	20° 4'49	18°34	21°23	9° 8	26°48	1° 8	13°49	26°58	13°42	9°59	13° 5	11°40	12°42	8°25	T 11
W12	15 18 29	21° 2'40	3♂10	23°34	10°22	26°47	1°19	13°45	26°56	13°44	9°58	13° 0	11°37	12°49	8°26	W12
T 13	15 22 26	22° 0'30	17°57	25°45	11°36	26°45	1°31	13°42	26°55	13°47	9°58	12°55	11°34	12°55	8°28	T 13
F 14	15 26 23	22°58'18	2♂46	27°56	12°49	26°43	1°43	13°39	26°54	13°49	9°58	12°49	11°30	13° 2	8°30	F 14
S 15	15 30 19	23°56'04	17°30	0♂6	14° 3	26°39	1°55	13°36	26°53	13°51	9°58	12°44	11°27	13° 9	8°31	S 15
S 16	15 34 16	24°53'49	2♂1	2°15	15°17	26°35	2° 7	13°33	26°52	13°53	9°58	12°40	11°24	13°16	8°33	S 16
M17	15 38 12	25°51'32	16°17	4°22	16°30	26°30	2°19	13°31	26°51	13°55	9°57	12°38	11°21	13°22	8°34	M17
T 18	15 42 9	26°49'13	0♂14	6°29	17°44	26°25	2°32	13°28	26°50	13°58	9°57	12°D38	11°18	13°29	8°36	T 18
W19	15 46 5	27°46'53	13°53	8°33	18°58	26°18	2°44	13°25	26°49	14° 0	9°57	12°39	11°14	13°36	8°37	W19
T 20	15 50 2	28°44'31	27°15	10°36	20°11	26°11	2°56	13°23	26°49	14° 2	9°57	12°40	11°11	13°43	8°39	T 20
F 21	15 53 58	29°42'08	10♂20	12°37	21°25	26° 3	3° 8	13°20	26°48	14° 4	9°D57	12°R41	11° 8	13°49	8°40	F 21
S 22	15 57 55	0♂39'43	23°12	14°35	22°38	25°55	3°21	13°18	26°47	14° 6	9°57	12°40	11° 5	13°56	8°41	S 22
S 23	16 1 52	1°37'17	5♂52	16°31	23°52	25°45	3°33	13°15	26°46	14° 9	9°57	12°38	11° 2	14° 3	8°42	S 23
M24	16 5 48	2°34'49	18°21	18°24	25° 6	25°35	3°46	13°13	26°46	14°11	9°57	12°33	10°59	14° 9	8°43	M24
T 25	16 9 45	3°32'21	0♂41	20°15	26°19	25°24	3°58	13°11	26°45	14°13	9°57	12°26	10°55	14°16	8°45	T 25
W26	16 13 41	4°29'51	12°53	22° 3	27°33	25°13	4°11	13° 9	26°45	14°15	9°57	12°17	10°52	14°23	8°46	W26
T 27	16 17 38	5°27'20	24°57	23°48	28°47	25° 1	4°24	13° 7	26°44	14°17	9°58	12° 8	10°49	14°30	8°46	T 27
F 28	16 21 34	6°24'48	6♂55	25°31	0♂0	24°48	4°36	13° 5	26°44	14°19	9°58	11°58	10°46	14°36	8°47	F 28
S 29	16 25 31	7°22'16	18°48	27°11	1°14	24°35	4°49	13° 3	26°44	14°21	9°58	11°48	10°43	14°43	8°48	S 29
S 30	16 29 27	8°19'42	0♂40	28°48	2°28	24°21	5° 2	13° 2	26°43	14°24	9°58	11°41	10°39	14°50	8°49	S 30
M31	16 33 24	9♂17'08	12♂33	0♂22	3♂41	24♂6	5♂15	13♂0	26♂43	14♂26	9♂59	11♂35	10♂36	14♂57	8♂50	M31

Delta T = 10.59 sec

Greg. Calendar

JUNE 1717

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 21	10♂14'33	24♂32	1♂53	4♂55	23°R51	5♂27	12°R59	26°R43	14♂28	9♂59	11°R31	10♂33	15♂3	8♂50	T 1
W 2	16 41 17	11°11'57	6♂40	3°21	6° 8	23♂35	5°40	12♂57	26♂43	14°30	9°59	11°D30	10°30	15°10	8°51	W 2
T 3	16 45 14	12° 9'21	19° 2	4°47	7°22	23°19	5°53	12°56	26°43	14°32	10° 0	11♂30	10°27	15°17	8°52	T 3
F 4	16 49 10	13° 6'44	1°44	6° 9	8°36	23° 2	6° 6	12°55	26°D43	14°34	10° 0	11°31	10°24	15°23	8°52	F 4
S 5	16 53 7	14° 4'06	14°50	7°28	9°49	22°45	6°19	12°54	26°43	14°36	10° 0	11°R31	10°20	15°30	8°52	S 5
S 6	16 57 3	15° 1'28	28°23	8°44	11° 3	22°28	6°32	12°53	26°43	14°38	10° 1	11°30	10°17	15°37	8°53	S 6
M 7	17 1 0	15°58'50	12♂25	9°58	12°17	22°10	6°45	12°52	26°43	14°40	10° 1	11°26	10°14	15°44	8°53	M 7
T 8	17 4 56	16°56'11	26°53	11° 7	13°30	21°52	6°58	12°51	26°43	14°42	10° 2	11°21	10°11	15°50	8°53	T 8
W 9	17 8 53	17°53'31	11♂45	12°14	14°44	21°33	7°12	12°50	26°43	14°44	10° 3	11°13	10° 8	15°57	8°54	W 9
T 10	17 12 50	18°50'51	26°51	13°18	15°58	21°14	7°25	12°50	26°44	14°46	10° 3	11° 3	10° 5	16° 4	8°54	T 10
F 11	17 16 46	19°48'10	12♂1	14°18	17°11	20°55	7°38	12°49	26°44	14°48	10° 4	10°53	10° 1	16°10	8°54	F 11
S 12	17 20 43	20°45'29	27° 6	15°14	18°25	20°36	7°51	12°49	26°44	14°50	10° 4	10°45	9°58	16°17	8°54	S 12
S 13	17 24 39	21°42'46	11♂55	16° 7	19°39	20°17	8° 4	12°48	26°45	14°52	10° 5	10°38	9°55	16°24	8°54	S 13
M14	17 28 36	22°40'03	26°23	16°56	20°52	19°58	8°18	12°48	26°45	14°53	10° 6	10°33	9°52	16°31	8°54	M14
T 15	17 32 32	23°37'19	10♂27	17°42	22° 6	19°38	8°31	12°48	26°46	14°55	10° 7	10°31	9°49	16°37	8°54	T 15
W16	17 36 29	24°34'34	24° 6	18°24	23°20	19°19	8°44	12°D48	26°46	14°57	10° 7	10°D30	9°45	16°44	8°53	W16
T 17	17 40 25	25°31'48	7♂21	19° 2	24°34	19° 0	8°58	12°48	26°47	14°59	10° 8	10°R30	9°42	16°51	8°53	T 17
F 18	17 44 22	26°29'02	20°17	19°35	25°47	18°41	9°11	12°48	26°48	15° 1	10° 9	10°R30	9°39	16°58	8°53	F 18
S 19	17 48 19	27°26'15	2♂56	20° 5	27° 1	18°22	9°24	12°49	26°49	15° 3	10°10	10°28	9°36	17° 4	8°52	S 19
S 20	17 52 15	28°23'27	15°22	20°30	28°15	18° 3	9°38	12°49	26°49	15° 4	10°11	10°24	9°33	17°11	8°52	S 20
M21	17 56 12	29°20'39	27°38	20°51	29°28	17°45	9°51	12°50	26°50	15° 6	10°12	10°17	9°30	17°18	8°51	M21
T 22	18 0 8	0♂17'51	9♂46	21° 7	0♂42	17°27	10° 4	12°50	26°51	15° 8	10°13	10° 7	9°26	17°24	8°51	T 22
W23	18 4 5	1°15'02	21°48	21°19	1°56	17° 9	10°18	12°51	26°52	15° 9	10°14	9°55	9°23	17°31	8°50	W23
T 24	18 8 1	2°12'13	3♂45	21°26	3° 9	16°52	10°31	12°52	26°53	15°11	10°15	9°42	9°20	17°38	8°50	T 24
F 25	18 11 58	3° 9'23	15°39	21°R29	4°23	16°35	10°45	12°53	26°54	15°13	10°16	9°28	9°17	17°45	8°49	F 25
S 26	18 15 54	4° 6'34	27°31	21°27	5°37	16°19	10°58	12°54	26°55	15°14	10°17	9°16	9°14	17°51	8°48	S 26
S 27	18 19 51	5° 3'44	9♂23	21°20	6°51	16° 3	11°12	12°55	26°57	15°16	10°18	9° 4	9°11	17°58	8°47	S 27
M28	18 23 48	6° 0'55	21°18	21° 9	8° 4	15°47	11°25	12°56	26°58	15°18	10°19	8°56	9° 7	18° 5	8°47	M28
T 29	18 27 44	6°58'06	3♂17	20°54	9°18	15°33	11°39	12°57	26°59	15°19	10°20	8°50	9° 4	18°12	8°46	T 29
W30	18 31 41	7♂55'16	15♂25	20♂34	10♂32	15♂18	11♂52	12♂58	27♂0	15♂21	10♂21	8♂47	9♂1	18♂18	8♂45	W30

Delta T = 10.58 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1717
geocentric

JULY 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 35 37	8 ⁵² 27	27 ⁴ 47	20 ¹ R11	11 ⁵ 46	15 ¹ R 5	12 ⁵ 6	13 ¹ 0	27 ¹ 2	15 ¹ 22	10 ¹ 22	8 ¹ R46	8 ¹ 58	18 ¹ 25	8 ¹ R44	T 1
F 2	18 39 34	9 ⁴⁹ 39	10 ¹ 26	19 ⁵ 44	12 ⁵ 59	14 ¹ 52	12 ¹ 19	13 ¹ 2	27 ¹ 3	15 ¹ 24	10 ¹ 24	8 ¹ 46	8 ¹ 55	18 ¹ 32	8 ¹ 42	F 2
S 3	18 43 30	10 ⁴⁶ 50	23 ¹ 27	19 ¹ 13	14 ¹ 13	14 ¹ 40	12 ¹ 33	13 ¹ 3	27 ¹ 5	15 ¹ 25	10 ¹ 25	8 ¹ 45	8 ¹ 51	18 ¹ 38	8 ¹ 41	S 3
S 4	18 47 27	11 ⁴⁴ 03	6 ¹ 55	18 ¹ 40	15 ¹ 27	14 ¹ 28	12 ¹ 46	13 ¹ 5	27 ¹ 6	15 ¹ 27	10 ¹ 26	8 ¹ 44	8 ¹ 48	18 ¹ 45	8 ¹ 40	S 4
M 5	18 51 23	12 ⁴¹ 15	20 ¹ 52	18 ¹ 5	16 ¹ 41	14 ¹ 17	13 ¹ 0	13 ¹ 7	27 ¹ 8	15 ¹ 28	10 ¹ 27	8 ¹ 40	8 ¹ 45	18 ¹ 52	8 ¹ 39	M 5
T 6	18 55 20	13 ³⁸ 28	5 ¹ 18	17 ¹ 28	17 ¹ 55	14 ¹ 7	13 ¹ 13	13 ¹ 9	27 ¹ 9	15 ¹ 29	10 ¹ 29	8 ¹ 34	8 ¹ 42	18 ¹ 59	8 ¹ 38	T 6
W 7	18 59 17	14 ³⁵ 41	20 ¹ 9	16 ¹ 50	19 ¹ 8	13 ¹ 58	13 ¹ 27	13 ¹ 11	27 ¹ 11	15 ¹ 31	10 ¹ 30	8 ¹ 25	8 ¹ 39	19 ¹ 5	8 ¹ 36	W 7
T 8	19 3 13	15 ³² 55	5 ¹ 29	16 ¹ 11	20 ¹ 22	13 ¹ 49	13 ¹ 40	13 ¹ 13	27 ¹ 13	15 ¹ 32	10 ¹ 31	8 ¹ 15	8 ¹ 36	19 ¹ 12	8 ¹ 35	T 8
F 9	19 7 10	16 ³⁰ 09	20 ¹ 38	15 ¹ 32	21 ¹ 36	13 ¹ 42	13 ¹ 54	13 ¹ 15	27 ¹ 15	15 ¹ 33	10 ¹ 33	8 ¹ 5	8 ¹ 32	19 ¹ 19	8 ¹ 33	F 9
S 10	19 11 6	17 ²⁷ 24	5 ¹ 24	14 ¹ 55	22 ¹ 50	13 ¹ 35	14 ¹ 7	13 ¹ 18	27 ¹ 16	15 ¹ 35	10 ¹ 34	7 ¹ 55	8 ¹ 29	19 ¹ 25	8 ¹ 32	S 10
S 11	19 15 3	18 ²⁴ 38	20 ¹ 56	14 ¹ 19	24 ¹ 4	13 ¹ 29	14 ¹ 21	13 ¹ 20	27 ¹ 18	15 ¹ 36	10 ¹ 36	7 ¹ 47	8 ¹ 26	19 ¹ 32	8 ¹ 30	S 11
M 12	19 18 59	19 ²¹ 53	5 ¹ 26	13 ¹ 45	25 ¹ 18	13 ¹ 23	14 ¹ 34	13 ¹ 23	27 ¹ 20	15 ¹ 37	10 ¹ 37	7 ¹ 41	8 ¹ 23	19 ¹ 39	8 ¹ 29	M 12
T 13	19 22 56	20 ¹⁹ 08	19 ¹ 50	13 ¹ 13	26 ¹ 31	13 ¹ 19	14 ¹ 48	13 ¹ 25	27 ¹ 22	15 ¹ 38	10 ¹ 39	7 ¹ 38	8 ¹ 20	19 ¹ 46	8 ¹ 27	T 13
W 14	19 26 52	21 ¹⁶ 22	3 ¹ 35	12 ¹ 45	27 ¹ 45	13 ¹ 15	15 ¹ 1	13 ¹ 28	27 ¹ 24	15 ¹ 40	10 ¹ 40	7 ¹ D37	8 ¹ 17	19 ¹ 52	8 ¹ 25	W 14
T 15	19 30 49	22 ¹³ 37	16 ¹ 54	12 ¹ 21	28 ¹ 59	13 ¹ 13	15 ¹ 14	13 ¹ 31	27 ¹ 26	15 ¹ 41	10 ¹ 42	7 ¹ R37	8 ¹ 13	19 ¹ 59	8 ¹ 23	T 15
F 16	19 34 46	23 ¹⁰ 53	29 ¹ 48	12 ¹ 2	0 ¹ 13	13 ¹ 11	15 ¹ 28	13 ¹ 34	27 ¹ 28	15 ¹ 42	10 ¹ 43	7 ¹ 37	8 ¹ 10	20 ¹ 6	8 ¹ 22	F 16
S 17	19 38 42	24 ⁸ 08	12 ¹ 23	11 ¹ 47	1 ¹ 27	13 ¹ 10	15 ¹ 41	13 ¹ 37	27 ¹ 30	15 ¹ 43	10 ¹ 45	7 ¹ 36	8 ¹ 7	20 ¹ 12	8 ¹ 20	S 17
S 18	19 42 39	25 ⁵ 24	24 ¹ 43	11 ¹ 37	2 ¹ 41	13 ¹ D10	15 ¹ 55	13 ¹ 40	27 ¹ 33	15 ¹ 44	10 ¹ 46	7 ¹ 33	8 ¹ 4	20 ¹ 19	8 ¹ 18	S 18
M 19	19 46 35	26 ² 40	6 ¹ 52	11 ¹ D33	3 ¹ 55	13 ¹ 11	16 ¹ 8	13 ¹ 43	27 ¹ 35	15 ¹ 45	10 ¹ 48	7 ¹ 27	8 ¹ 1	20 ¹ 26	8 ¹ 16	M 19
T 20	19 50 32	26 ⁵⁹ 57	18 ¹ 52	11 ¹ 34	5 ¹ 8	13 ¹ 12	16 ¹ 21	13 ¹ 46	27 ¹ 37	15 ¹ 46	10 ¹ 49	7 ¹ 18	7 ¹ 57	20 ¹ 33	8 ¹ 14	T 20
W 21	19 54 28	27 ⁵⁷ 14	0 ¹ 38	11 ¹ 41	6 ¹ 22	13 ¹ 15	16 ¹ 35	13 ¹ 49	27 ¹ 39	15 ¹ 47	10 ¹ 51	7 ¹ 7	7 ¹ 54	20 ¹ 39	8 ¹ 12	W 21
T 22	19 58 25	28 ⁵⁴ 31	12 ¹ 41	11 ¹ 54	7 ¹ 36	13 ¹ 18	16 ¹ 48	13 ¹ 53	27 ¹ 42	15 ¹ 48	10 ¹ 53	6 ¹ 55	7 ¹ 51	20 ¹ 46	8 ¹ 10	T 22
F 23	20 2 21	29 ⁵¹ 50	24 ¹ 34	12 ¹ 13	8 ¹ 50	13 ¹ 22	17 ¹ 1	13 ¹ 56	27 ¹ 44	15 ¹ 49	10 ¹ 54	6 ¹ 43	7 ¹ 48	20 ¹ 53	8 ¹ 8	F 23
S 24	20 6 18	0 ¹ 4909	6 ¹ 27	12 ¹ 37	10 ¹ 4	13 ¹ 27	17 ¹ 15	14 ¹ 0	27 ¹ 47	15 ¹ 50	10 ¹ 56	6 ¹ 31	7 ¹ 45	21 ¹ 0	8 ¹ 6	S 24
S 25	20 10 15	1 ⁴⁶ 28	18 ¹ 23	13 ¹ 9	11 ¹ 18	13 ¹ 32	17 ¹ 28	14 ¹ 4	27 ¹ 49	15 ¹ 51	10 ¹ 58	6 ¹ 21	7 ¹ 42	21 ¹ 6	8 ¹ 4	S 25
M 26	20 14 11	2 ⁴³ 49	0 ¹ 22	13 ¹ 46	12 ¹ 32	13 ¹ 39	17 ¹ 41	14 ¹ 7	27 ¹ 52	15 ¹ 51	11 ¹ 0	6 ¹ 13	7 ¹ 38	21 ¹ 13	8 ¹ 1	M 26
T 27	20 18 8	3 ⁴¹ 10	12 ¹ 27	14 ¹ 29	13 ¹ 46	13 ¹ 46	17 ¹ 54	14 ¹ 11	27 ¹ 54	15 ¹ 52	11 ¹ 1	6 ¹ 8	7 ¹ 35	21 ¹ 20	7 ¹ 59	T 27
W 28	20 22 4	4 ³⁸ 32	24 ¹ 41	15 ¹ 18	15 ¹ 0	13 ¹ 54	18 ¹ 8	14 ¹ 15	27 ¹ 57	15 ¹ 53	11 ¹ 3	6 ¹ 6	7 ¹ 32	21 ¹ 26	7 ¹ 57	W 28
T 29	20 26 1	5 ³⁵ 56	7 ¹ 7	16 ¹ 13	16 ¹ 13	14 ¹ 3	18 ¹ 21	14 ¹ 19	27 ¹ 59	15 ¹ 54	11 ¹ 5	6 ¹ D 5	7 ¹ 29	21 ¹ 33	7 ¹ 54	T 29
F 30	20 29 57	6 ³³ 21	19 ¹ 48	17 ¹ 14	17 ¹ 27	14 ¹ 12	18 ¹ 34	14 ¹ 23	28 ¹ 2	15 ¹ 54	11 ¹ 7	6 ¹ 6	7 ¹ 26	21 ¹ 40	7 ¹ 52	F 30
S 31	20 33 54	7 ¹ 3046	2 ¹ 349	18 ¹ 20	18 ¹ 141	14 ¹ 23	18 ¹ 47	14 ¹ 27	28 ¹ 5	15 ¹ 55	11 ¹ 9	6 ¹ R 6	7 ¹ 23	21 ¹ 47	7 ¹ 50	S 31

Delta T = 10.58 sec

Greg. Calendar

AUGUST 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 37 50	8 ¹ 2814	16 ¹ 12	19 ¹ 32	19 ¹ 55	14 ¹ 34	19 ¹ 0	14 ¹ 31	28 ¹ 7	15 ¹ 56	11 ¹ 10	6 ¹ R 6	7 ¹ 19	21 ¹ 53	7 ¹ R47	S 1
M 2	20 41 47	9 ²⁵ 42	0 ¹ 11	20 ¹ 49	21 ¹ 9	14 ¹ 45	19 ¹ 13	14 ¹ 36	28 ¹ 10	15 ¹ 56	11 ¹ 12	6 ¹ 4	7 ¹ 16	22 ¹ 0	7 ¹ 45	M 2
T 3	20 45 44	10 ²³ 12	14 ¹ 17	22 ¹ 12	22 ¹ 23	14 ¹ 58	19 ¹ 26	14 ¹ 40	28 ¹ 13	15 ¹ 57	11 ¹ 14	6 ¹ 0	7 ¹ 13	22 ¹ 7	7 ¹ 42	T 3
W 4	20 49 40	11 ²⁰ 43	28 ¹ 56	23 ¹ 39	23 ¹ 37	15 ¹ 11	19 ¹ 39	14 ¹ 45	28 ¹ 16	15 ¹ 57	11 ¹ 16	5 ¹ 54	7 ¹ 10	22 ¹ 13	7 ¹ 40	W 4
T 5	20 53 37	12 ¹⁸ 16	13 ¹ 26	25 ¹ 11	24 ¹ 51	15 ¹ 25	19 ¹ 52	14 ¹ 49	28 ¹ 19	15 ¹ 58	11 ¹ 18	5 ¹ 47	7 ¹ 7	22 ¹ 20	7 ¹ 37	T 5
F 6	20 57 33	13 ¹⁵ 49	29 ¹ 6	26 ¹ 48	26 ¹ 5	15 ¹ 39	20 ¹ 5	14 ¹ 54	28 ¹ 22	15 ¹ 58	11 ¹ 20	5 ¹ 39	7 ¹ 3	22 ¹ 27	7 ¹ 35	F 6
S 7	21 1 30	14 ¹³ 24	14 ¹ 18	28 ¹ 28	27 ¹ 19	15 ¹ 55	20 ¹ 18	14 ¹ 58	28 ¹ 25	15 ¹ 59	11 ¹ 22	5 ¹ 32	7 ¹ 0	22 ¹ 34	7 ¹ 32	S 7
S 8	21 5 26	15 ¹¹ 00	29 ¹ 21	0 ¹ 13	28 ¹ 33	16 ¹ 11	20 ¹ 31	15 ¹ 3	28 ¹ 27	15 ¹ 59	11 ¹ 24	5 ¹ 26	6 ¹ 57	22 ¹ 40	7 ¹ 29	S 8
M 9	21 9 23	16 ⁸ 38	14 ¹ 26	2 ¹ 0	29 ¹ 47	16 ¹ 27	20 ¹ 44	15 ¹ 8	28 ¹ 30	15 ¹ 59	11 ¹ 26	5 ¹ 22	6 ¹ 54	22 ¹ 47	7 ¹ 27	M 9
T 10	21 13 19	17 ⁶ 16	28 ¹ 24	3 ¹ 51	1 ¹ 26	16 ¹ 44	20 ¹ 56	15 ¹ 13	28 ¹ 34	16 ¹ 0	11 ¹ 28	5 ¹ 20	6 ¹ 51	22 ¹ 54	7 ¹ 24	T 10
W 11	21 17 16	18 ³ 55	12 ¹ 17	5 ¹ 44	2 ¹ 15	17 ¹ 2	21 ¹ 9	15 ¹ 18	28 ¹ 37	16 ¹ 0	11 ¹ 30	5 ¹ D20	6 ¹ 48	23 ¹ 0	7 ¹ 21	W 11
T 12	21 21 13	19 ¹ 35	25 ¹ 41	7 ¹ 39	3 ¹ 29	17 ¹ 21	21 ¹ 22	15 ¹ 23	28 ¹ 40	16 ¹ 0	11 ¹ 32	5 ¹ 21	6 ¹ 44	23 ¹ 7	7 ¹ 19	T 12
F 13	21 25 9	19 ⁵⁹ 16	8 ¹ 40	9 ¹ 37	4 ¹ 43	17 ¹ 40	21 ¹ 34	15 ¹ 28	28 ¹ 43	16 ¹ 1	11 ¹ 34	5 ¹ 22	6 ¹ 41	23 ¹ 14	7 ¹ 16	F 13
S 14	21 29 6	20 ⁵⁶ 59	21 ¹ 17	11 ¹ 35	5 ¹ 57	17 ¹ 59	21 ¹ 47	15 ¹ 33	28 ¹ 46	16 ¹ 1	11 ¹ 36	5 ¹ R23	6 ¹ 38	23 ¹ 21	7 ¹ 13	S 14
S 15	21 33 2	21 ⁵⁴ 42	3 ¹ 37	13 ¹ 35	7 ¹ 10	18 ¹ 20	21 ¹ 59	15 ¹ 38	28 ¹ 49	16 ¹ 1	11 ¹ 38	5 ¹ 22	6 ¹ 35	23 ¹ 27	7 ¹ 10	S 15
M 16	21 36 59	22 ⁵² 27	15 ¹ 44	15 ¹ 35	8 ¹ 24	18 ¹ 41	22 ¹ 12	15 ¹ 43	28 ¹ 52	16 ¹ 1	11 ¹ 40	5 ¹ 20	6 ¹ 32	23 ¹ 34	7 ¹ 7	M

ASTRODIENST EPHEMERIS for the year 1717
geocentric

SEPTEMBER 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 40 4	8♐19'38	8♏31	16♐29	28♐7	25♐21	25♏23	17♏16	29♐47	15♐59	12♐13	4♐R38	5♏41	25♏22	6♐R21	W 1
T 2	22 44 0	9♐17'51	23♐11	18♐16	29♐21	25♐50	25♐35	17♐22	29♐51	15♏58	12♐16	4♏35	5♐38	25♐28	6♐18	T 2
F 3	22 47 57	10♐16'05	8♏0	20° 2	0♏35	26♐19	25♐46	17♐28	29♐54	15♐58	12♐18	4♐31	5♐34	25♐35	6♐15	F 3
S 4	22 51 53	11♐14'22	22♐53	21°46	1°49	26°49	25°57	17°35	29°58	15°57	12°20	4°28	5°31	25°42	6°12	S 4
S 5	22 55 50	12°12'40	7♐40	23°29	3° 2	27°19	26° 9	17°41	0♏ 2	15°57	12°22	4°26	5°28	25°48	6° 9	S 5
M 6	22 59 46	13°11'00	22°15	25°11	4°16	27°49	26°20	17°48	0° 5	15°56	12°24	4°24	5°25	25°55	6° 6	M 6
T 7	23 3 43	14° 9'22	6♏31	26°52	5°30	28°19	26°31	17°54	0° 9	15°56	12°26	4°D24	5°22	26° 2	6° 3	T 7
W 8	23 7 40	15° 7'45	20°23	28°32	6°44	28°50	26°42	18° 0	0°13	15°55	12°28	4°24	5°19	26° 9	6° 0	W 8
T 9	23 11 36	16° 6'11	3♐51	0♏11	7°58	29°22	26°52	18° 7	0°16	15°54	12°31	4°26	5°15	26°15	5°58	T 9
F 10	23 15 33	17° 4'38	16°54	1°49	9°12	29°53	27° 3	18°14	0°20	15°54	12°33	4°27	5°12	26°22	5°55	F 10
S 11	23 19 29	18° 3'06	29°35	3°25	10°26	0♏25	27°14	18°20	0°24	15°53	12°35	4°28	5° 9	26°29	5°52	S 11
S 12	23 23 26	19° 1'37	11♐58	5° 1	11°39	0°58	27°24	18°27	0°27	15°52	12°37	4°29	5° 6	26°35	5°49	S 12
M13	23 27 22	20° 0'09	24° 6	6°35	12°53	1°30	27°35	18°33	0°31	15°52	12°39	4°R29	5° 3	26°42	5°46	M13
T 14	23 31 19	20°58'42	6♏ 5	8° 9	14° 7	2° 3	27°45	18°40	0°35	15°51	12°41	4°28	5° 0	26°49	5°43	T 14
W15	23 35 15	21°57'18	17°58	9°41	15°21	2°37	27°56	18°47	0°39	15°50	12°43	4°27	4°56	26°55	5°41	W15
T 16	23 39 12	22°55'55	29°51	11°12	16°35	3°10	28° 6	18°54	0°42	15°49	12°45	4°26	4°53	27° 2	5°38	T 16
F 17	23 43 8	23°54'33	11♐46	12°43	17°48	3°44	28°16	19° 1	0°46	15°48	12°48	4°24	4°50	27° 9	5°35	F 17
S 18	23 47 5	24°53'14	23°47	14°12	19° 2	4°18	28°26	19° 7	0°50	15°47	12°50	4°23	4°47	27°16	5°32	S 18
S 19	23 51 2	25°51'56	5♐57	15°40	20°16	4°52	28°36	19°14	0°54	15°46	12°52	4°22	4°44	27°22	5°30	S 19
M20	23 54 58	26°50'40	18°18	17° 7	21°30	5°27	28°46	19°21	0°57	15°45	12°54	4°21	4°40	27°29	5°27	M20
T 21	23 58 55	27°49'26	0♐51	18°33	22°43	6° 2	28°55	19°28	1° 1	15°44	12°56	4°D21	4°37	27°36	5°24	T 21
W22	0 2 51	28°48'14	13°36	19°58	23°57	6°37	29° 5	19°35	1° 5	15°43	12°58	4°21	4°34	27°42	5°22	W22
T 23	0 6 48	29°47'05	26°35	21°22	25°11	7°12	29°14	19°42	1° 9	15°42	13° 0	4°21	4°31	27°49	5°19	T 23
F 24	0 10 44	0♏45'57	9♏48	22°45	26°24	7°48	29°24	19°49	1°13	15°41	13° 2	4°21	4°28	27°56	5°17	F 24
S 25	0 14 41	1°44'52	23°14	24° 7	27°38	8°23	29°33	19°56	1°16	15°40	13° 4	4°22	4°25	28° 3	5°14	S 25
S 26	0 18 37	2°43'49	6♐52	25°28	28°52	8°59	29°42	20° 3	1°20	15°39	13° 6	4°22	4°21	28° 9	5°12	S 26
M27	0 22 34	3°42'48	20°44	26°47	0♐ 5	9°36	29°51	20°10	1°24	15°38	13° 8	4°22	4°18	28°16	5° 9	M27
T 28	0 26 31	4°41'50	4♏46	28° 5	1°19	10°12	0♏ 0	20°17	1°28	15°37	13°10	4°22	4°15	28°23	5° 7	T 28
W29	0 30 27	5°40'54	18°59	29°22	2°33	10°49	0° 9	20°25	1°32	15°36	13°12	4°22	4°12	28°29	5° 4	W29
T 30	0 34 24	6♏40'00	3♏19	0♐37	3♐46	11♏26	0♏18	20♏32	1♏35	15♏34	13♐14	4♏22	4♏ 9	28♏36	5♐ 2	T 30

Delta T = 10.57 sec

Greg. Calendar

OCTOBER 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 38 20	7♏39'08	17♏44	1♐50	5♐ 0	12♏ 3	0♏26	20♏39	1♏39	15♐R33	13♐16	4♏23	4♏ 5	28♏43	4♐R59	F 1
S 2	0 42 17	8°38'19	2♐ 9	3° 3	6°13	12°40	0°35	20°46	1°43	15♏32	13°18	4°23	4° 2	28°50	4♐57	S 2
S 3	0 46 13	9°37'32	16°30	4°13	7°27	13°18	0°43	20°53	1°47	15°31	13°20	4°23	3°59	28°56	4°55	S 3
M 4	0 50 10	10°36'48	0♏42	5°22	8°41	13°55	0°51	21° 0	1°50	15°29	13°22	4°R23	3°56	29° 3	4°53	M 4
T 5	0 54 6	11°36'05	14°41	6°28	9°54	14°33	0°59	21° 8	1°54	15°28	13°24	4°23	3°53	29°10	4°50	T 5
W 6	0 58 3	12°35'25	28°23	7°33	11° 8	15°11	1° 7	21°15	1°58	15°27	13°26	4°23	3°50	29°16	4°48	W 6
T 7	1 1 59	13°34'46	11♐45	8°35	12°21	15°50	1°15	21°22	2° 2	15°25	13°28	4°22	3°46	29°23	4°46	T 7
F 8	1 5 56	14°34'09	24°47	9°34	13°35	16°28	1°23	21°29	2° 5	15°24	13°30	4°21	3°43	29°30	4°44	F 8
S 9	1 9 53	15°33'35	7♐30	10°31	14°48	17° 7	1°30	21°37	2° 9	15°22	13°32	4°19	3°40	29°37	4°42	S 9
S 10	1 13 49	16°33'02	19°54	11°25	16° 2	17°45	1°38	21°44	2°13	15°21	13°34	4°18	3°37	29°43	4°40	S 10
M11	1 17 46	17°32'31	2♏ 4	12°15	17°15	18°24	1°45	21°51	2°16	15°20	13°36	4°17	3°34	29°50	4°38	M11
T 12	1 21 42	18°32'02	14° 4	13° 2	18°29	19° 4	1°52	21°58	2°20	15°18	13°37	4°D16	3°31	29°57	4°36	T 12
W13	1 25 39	19°31'34	25°57	13°45	19°42	19°43	1°59	22° 6	2°24	15°17	13°39	4°16	3°27	0♏ 3	4°34	W13
T 14	1 29 35	20°31'08	7♏49	14°23	20°56	20°22	2° 6	22°13	2°27	15°15	13°41	4°17	3°24	0°10	4°33	T 14
F 15	1 33 32	21°30'44	19°45	14°57	22° 9	21° 2	2°12	22°20	2°31	15°14	13°43	4°18	3°21	0°17	4°31	F 15
S 16	1 37 28	22°30'22	1♐49	15°25	23°23	21°41	2°19	22°28	2°35	15°12	13°45	4°20	3°18	0°23	4°29	S 16
S 17	1 41 25	23°30'02	14° 4	15°47	24°36	22°21	2°25	22°35	2°38	15°11	13°46	4°21	3°15	0°30	4°28	S 17
M18	1 45 22	24°29'43	26°34	16° 2	25°49	23° 1	2°31	22°42	2°42	15° 9	13°48	4°22	3°11	0°37	4°26	M18
T 19	1 49 18	25°29'26	9♐22	16°11	27° 3	23°41	2°37	22°49	2°45	15° 7	13°50	4°R22	3° 8	0°44	4°24	T 19
W20	1 53 15	26°29'11	22°27	16°R12	28°16	24°22	2°43	22°57	2°49	15° 6	13°51	4°21	3° 5	0°50	4°23	W20
T 21	1 57 11	27°28'59	5♏51	16° 5	29°29	25° 2	2°49	23° 4	2°53	15° 4	13°53	4°19	3° 2	0°57	4°22	T 21
F 22	2 1 8	28°28'48	19°30	15°49	0♏42	25°42	2°55	23°11	2°56	15° 3	13°55	4°16	2°59	1° 4	4°20	F 22
S 23	2 5 4	29°28'39	3♐23	15°24	1°56	26°23	3° 0	23°19	3° 0	15° 1	13°56	4°12	2°56	1°10	4°19	S 23
S 24	2 9 1	0♐28'33	17°26	14°50	3° 9	27° 4	3° 5	23°26	3° 3	14°59	13°58	4° 8	2°52	1°17	4°18	S 24
M25	2 12 57	1°28'28	1♏35	14° 7	4°22	27°45	3°10	23°33	3° 7	14°58	14° 0	4° 5	2°49	1°24	4°16	M25
T 26	2 16 54	2°28'26	15°47	13°15	5°35	28°26	3°15	23°40	3°10	14°56	14° 1	4° 3	2°46	1°31	4°15	T 26
W27	2 20 51	3°28'26	29°59	12°15	6°49	29° 7	3°20	23°48	3°13	14°55	14° 3	4°D 2	2°43	1°37	4°14	W27
T 28	2 24 47	4°28'28	14♏ 9	11° 8	8° 2	29°48	3°24	23°55	3°17	14°53	14° 4	4° 2	2°40	1°44	4°13	T 28
F 29	2 28 44	5°28'33	28°14	9°55	9°15	0♏29	3°29	24° 2	3°20	14°51	14° 6	4° 3	2°37	1°51	4°12	F 29
S 30	2 32 40	6°28'39	12♐15	8°38	10°28	1°10	3°33	24° 9	3°23	14°50	14° 7	4° 5	2°33	1°57	4°11	S 30
S 31	2 36 37	7♐28'48	26♐ 8	7♐19	11♐41	1♏52	3♏27	24♏16	3♏27	14♏48	14♐ 9	4♏ 6	2♏30	2♏ 4	4♐10	S 31

Delta T = 10.56 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1717
geocentric

NOVEMBER 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 40 33	8♂28'59	9♂52	6°R 2	12♂54	2♂33	3♂41	24♂24	3♂30	14°R46	14♂10	4°R 6	2♂27	2♂11	4°R 9	M 1
T 2	2 44 30	9°29'11	23°26	4♂48	14° 7	3°15	3°45	24°31	3°33	14♂44	14°11	4♂ 4	2°24	2°17	4♂ 9	T 2
W 3	2 48 26	10°29'26	6♂48	3°39	15°20	3°57	3°48	24°38	3°37	14°43	14°13	4° 1	2°21	2°24	4° 8	W 3
T 4	2 52 23	11°29'42	19°55	2°39	16°33	4°38	3°52	24°45	3°40	14°41	14°14	3°56	2°17	2°31	4° 7	T 4
F 5	2 56 20	12°30'00	2♂48	1°48	17°46	5°20	3°55	24°52	3°43	14°39	14°16	3°49	2°14	2°38	4° 7	F 5
S 6	3 0 16	13°30'20	15°25	1° 7	18°59	6° 2	3°58	24°59	3°46	14°38	14°17	3°42	2°11	2°44	4° 6	S 6
S 7	3 4 13	14°30'41	27°47	0°39	20°12	6°44	4° 0	25° 6	3°49	14°36	14°18	3°34	2° 8	2°51	4° 6	S 7
M 8	3 8 9	15°31'04	9♂56	0°21	21°25	7°27	4° 3	25°13	3°52	14°34	14°19	3°28	2° 5	2°58	4° 5	M 8
T 9	3 12 6	16°31'29	21°54	0°D16	22°38	8° 9	4° 5	25°20	3°55	14°33	14°21	3°23	2° 2	3° 4	4° 5	T 9
W10	3 16 2	17°31'55	3♂47	0°21	23°51	8°51	4° 8	25°27	3°58	14°31	14°22	3°20	1°58	3°11	4° 4	W10
T 11	3 19 59	18°32'22	15°37	0°37	25° 3	9°34	4°10	25°34	4° 1	14°29	14°23	3°D19	1°55	3°18	4° 4	T 11
F 12	3 23 55	19°32'50	27°31	1° 3	26°16	10°16	4°11	25°41	4° 4	14°28	14°24	3°19	1°52	3°25	4° 4	F 12
S 13	3 27 52	20°33'20	9♂33	1°38	27°29	10°59	4°13	25°48	4° 7	14°26	14°25	3°20	1°49	3°31	4° 4	S 13
S 14	3 31 49	21°33'51	21°49	2°20	28°42	11°41	4°14	25°55	4°10	14°24	14°26	3°22	1°46	3°38	4° 4	S 14
M15	3 35 45	22°34'23	4♂22	3°10	29°54	12°24	4°16	26° 1	4°13	14°23	14°27	3°R22	1°42	3°45	4°D 4	M15
T 16	3 39 42	23°34'57	17°17	4° 6	1♂ 7	13° 6	4°17	26° 8	4°16	14°21	14°28	3°21	1°39	3°51	4° 4	T 16
W17	3 43 38	24°35'32	0♂36	5° 7	2°19	13°49	4°18	26°15	4°18	14°19	14°29	3°18	1°36	3°58	4° 4	W17
T 18	3 47 35	25°36'08	14°19	6°13	3°32	14°32	4°18	26°21	4°21	14°18	14°30	3°12	1°33	4° 5	4° 4	T 18
F 19	3 51 31	26°36'46	28°24	7°23	4°44	15°15	4°19	26°28	4°24	14°16	14°31	3° 5	1°30	4°11	4° 4	F 19
S 20	3 55 28	27°37'26	12♂45	8°37	5°57	15°58	4°19	26°35	4°26	14°14	14°32	2°56	1°27	4°18	4° 5	S 20
S 21	3 59 24	28°38'06	27°18	9°53	7° 9	16°41	4°R19	26°41	4°29	14°13	14°33	2°47	1°23	4°25	4° 5	S 21
M22	4 3 21	29°38'49	11♂55	11°12	8°22	17°24	4°19	26°48	4°32	14°11	14°34	2°38	1°20	4°32	4° 6	M22
T 23	4 7 18	0♂39'33	26°28	12°34	9°34	18° 7	4°19	26°54	4°34	14° 9	14°35	2°32	1°17	4°38	4° 6	T 23
W24	4 11 14	1°40'18	10♂53	13°57	10°46	18°50	4°18	27° 1	4°37	14° 8	14°35	2°27	1°14	4°45	4° 7	W24
T 25	4 15 11	2°41'05	25° 6	15°22	11°58	19°33	4°17	27° 7	4°39	14° 6	14°36	2°26	1°11	4°52	4° 7	T 25
F 26	4 19 7	3°41'53	9♂ 6	16°48	13°10	20°16	4°16	27°14	4°41	14° 5	14°37	2°D25	1° 8	4°58	4° 8	F 26
S 27	4 23 4	4°42'43	22°52	18°15	14°22	20°59	4°15	27°20	4°44	14° 3	14°38	2°26	1° 4	5° 5	4° 9	S 27
S 28	4 27 0	5°43'35	6♂24	19°43	15°34	21°42	4°14	27°26	4°46	14° 2	14°38	2°R26	1° 1	5°12	4° 9	S 28
M29	4 30 57	6°44'27	19°45	21°12	16°46	22°26	4°12	27°32	4°48	14° 0	14°39	2°25	0°58	5°18	4°10	M29
T 30	4 34 53	7♂45'22	2♂54	22♂42	17♂58	23♂ 9	4♂11	27♂39	4♂51	13♂58	14♂39	2♂21	0♂55	5♂25	4♂11	T 30

Delta T = 10.56 sec

Greg. Calendar

DECEMBER 1717

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 38 50	8♂46'17	15♂53	24♂12	19♂10	23♂52	4°R 9	27♂45	4♂53	13°R57	14♂40	2°R14	0♂52	5♂32	4♂12	W 1
T 2	4 42 47	9°47'14	28°40	25°42	20°22	24°36	4♂ 7	27°51	4°55	13♂55	14°40	2♂ 4	0°48	5°39	4°13	T 2
F 3	4 46 43	10°48'11	11♂17	27°13	21°34	25°19	4° 4	27°57	4°57	13°54	14°41	1°52	0°45	5°45	4°14	F 3
S 4	4 50 40	11°49'10	23°43	28°45	22°45	26° 3	4° 2	28° 3	4°59	13°53	14°41	1°39	0°42	5°52	4°15	S 4
S 5	4 54 36	12°50'10	5♂57	0♂16	23°57	26°46	3°59	28° 9	5° 1	13°51	14°42	1°26	0°39	5°59	4°16	S 5
M 6	4 58 33	13°51'10	18° 1	1°48	25° 8	27°29	3°56	28°14	5° 3	13°50	14°42	1°13	0°36	6° 5	4°18	M 6
T 7	5 2 29	14°52'12	29°57	3°20	26°20	28°13	3°53	28°20	5° 5	13°48	14°43	1° 3	0°33	6°12	4°19	T 7
W 8	5 6 26	15°53'13	11♂48	4°52	27°31	28°57	3°50	28°26	5° 7	13°47	14°43	0°55	0°29	6°19	4°20	W 8
T 9	5 10 22	16°54'16	23°36	6°25	28°42	29°40	3°46	28°32	5° 8	13°45	14°43	0°50	0°26	6°25	4°22	T 9
F 10	5 14 19	17°55'19	5♂27	7°57	29°54	0♂24	3°43	28°37	5°10	13°44	14°43	0°48	0°23	6°32	4°23	F 10
S 11	5 18 16	18°56'22	17°25	9°30	1♂ 5	1° 7	3°39	28°43	5°12	13°43	14°44	0°D47	0°20	6°39	4°25	S 11
S 12	5 22 12	19°57'26	29°37	11° 3	2°16	1°51	3°35	28°48	5°13	13°42	14°44	0°R47	0°17	6°45	4°26	S 12
M13	5 26 9	20°58'30	12♂ 7	12°36	3°26	2°35	3°31	28°54	5°15	13°40	14°44	0°47	0°14	6°52	4°28	M13
T 14	5 30 5	21°59'35	25° 1	14° 9	4°37	3°18	3°26	28°59	5°17	13°39	14°44	0°45	0°10	6°59	4°30	T 14
W15	5 34 2	23° 0'40	8♂21	15°42	5°48	4° 2	3°22	29° 4	5°18	13°38	14°44	0°40	0° 7	7° 6	4°32	W15
T 16	5 37 58	24° 1'45	22°11	17°15	6°59	4°45	3°17	29° 9	5°19	13°37	14°44	0°33	0° 4	7°12	4°33	T 16
F 17	5 41 55	25° 2'51	6♂29	18°49	8° 9	5°29	3°12	29°14	5°21	13°35	14°R44	0°23	0° 1	7°19	4°35	F 17
S 18	5 45 51	26° 3'57	21°10	20°23	9°19	6°13	3° 7	29°20	5°22	13°34	14°44	0°12	29♂58	7°26	4°37	S 18
S 19	5 49 48	27° 5'03	6♂ 7	21°57	10°30	6°56	3° 2	29°25	5°23	13°33	14°44	29♂59	29°54	7°32	4°39	S 19
M20	5 53 45	28° 6'11	21°10	23°31	11°40	7°40	2°57	29°29	5°25	13°32	14°44	29°48	29°51	7°39	4°41	M20
T 21	5 57 41	29° 7'18	6♂10	25° 5	12°50	8°24	2°51	29°34	5°26	13°31	14°44	29°39	29°48	7°46	4°43	T 21
W22	6 1 38	0♂ 8'26	20°57	26°40	14° 0	9° 7	2°46	29°39	5°27	13°30	14°44	29°33	29°45	7°52	4°45	W22
T 23	6 5 34	1° 9'35	5♂26	28°15	15° 9	9°51	2°40	29°44	5°28	13°29	14°44	29°29	29°42	7°59	4°48	T 23
F 24	6 9 31	2°10'44	19°34	29°50	16°19	10°35	2°34	29°48	5°29	13°28	14°44	29°28	29°39	8° 6	4°50	F 24
S 25	6 13 27	3°11'53	3♂21	1♂25	17°28	11°19	2°28	29°53	5°30	13°27	14°43	29°28	29°35	8°13	4°52	S 25
S 26	6 17 24	4°13'03	16°47	3° 1	18°38	12° 2	2°21	29°57	5°31	13°26	14°43	29°27	29°32	8°19	4°54	S 26
M27	6 21 20	5°14'14	29°55	4°37	19°47	12°46	2°15	0♂ 2	5°32	13°25	14°43	29°25	29°29	8°26	4°57	M27
T 28	6 25 17	6°15'25	12♂48	6°13	20°56	13°30	2° 9	0° 6	5°32	13°24	14°42	29°21	29°26	8°33	4°59	T 28
W29	6 29 14	7°16'36	25°28	7°50	22° 5	14°13	2° 2	0°10	5°33	13°23	14°42	29°14	29°23	8°39	5° 2	W29
T 30	6 33 10	8°17'48	7♂58	9°27	23°13	14°57	1°55	0°14	5°34	13°22	14°42	29° 3	29°20	8°46	5° 4	T 30
F 31	6 37 7	9♂18'59	20♂18	11♂ 4	24♂22	15♂41	1♂48	0♂18	5♂34	13♂22	14♂41	28♂50	29♂16	8♂53	5♂ 7	F 31

Delta T = 10.55 sec

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