



# Astrodienst Ephemeris Tables for the year 1927

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 1927

geocentric

JANUARY 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 38 36	9°34'21"	3°53'	23°54'	19°20'	8°11'	26°18'	3°16'	25°49'	26°R43	14°R59	7°12'	6°58'	22°53'	27°R33	S 1
S 2	6 42 32	10°35'31"	17° 5'	25°23'	20°35'	8°28'	26°30'	3°22'	25°51'	26°L42	14°57'	7°12'	6°55'	23° 0'	27°V33	S 2
M 3	6 46 29	11°36'43"	0°39'	26°53'	21°51'	8°45'	26°42'	3°28'	25°52'	26°41'	14°56'	7°R12	6°52'	23° 6'	27°32'	M 3
T 4	6 50 25	12°37'54"	14°33'	28°22'	23° 6'	9° 2'	26°54'	3°34'	25°53'	26°39'	14°55'	7°12'	6°49'	23°13'	27°32'	T 4
W 5	6 54 22	13°39'05"	28°43'	29°53'	24°22'	9°20'	27° 6'	3°40'	25°55'	26°38'	14°54'	7°12'	6°46'	23°20'	27°32'	W 5
T 6	6 58 18	14°40'16"	13°44'	1°23'	25°37'	9°39'	27°19'	3°46'	25°56'	26°37'	14°52'	7°11'	6°43'	23°26'	27°32'	T 6
F 7	7 2 15	15°41'26"	27°32'	2°54'	26°52'	9°58'	27°31'	3°52'	25°58'	26°36'	14°51'	7°10'	6°39'	23°33'	27°32'	F 7
S 8	7 6 11	16°42'36"	12°11'	4°26'	28° 8'	10°17'	27°44'	3°58'	26° 0'	26°35'	14°50'	7° 9'	6°36'	23°40'	27°D32	S 8
S 9	7 10 8	17°43'46"	26°25'	5°58'	29°23'	10°37'	27°57'	4° 4'	26° 1'	26°34'	14°48'	7° 8'	6°33'	23°47'	27°32'	S 9
M10	7 14 5	18°44'55"	10°V42	7°30'	0°38'	10°57'	28° 9'	4°10'	26° 3'	26°32'	14°47'	7° 8'	6°30'	23°53'	27°32'	M10
T 11	7 18 1	19°46'04"	24°48'	9° 3'	1°54'	11°17'	28°22'	4°15'	26° 5'	26°31'	14°46'	7°D 8	6°27'	24° 0'	27°32'	T 11
W12	7 21 58	20°47'12"	8°42'	10°36'	3° 9'	11°38'	28°35'	4°21'	26° 7'	26°30'	14°45'	7° 8'	6°23'	24° 7'	27°32'	W12
T 13	7 25 54	21°48'19"	22°24'	12°10'	4°24'	12° 0'	28°48'	4°27'	26° 9'	26°29'	14°43'	7° 9'	6°20'	24°13'	27°32'	T 13
F 14	7 29 51	22°49'26"	5°II52	13°44'	5°39'	12°22'	29° 1'	4°32'	26°11'	26°27'	14°42'	7°10'	6°17'	24°20'	27°32'	F 14
S 15	7 33 47	23°50'32"	19° 7'	15°19'	6°55'	12°44'	29°14'	4°38'	26°12'	26°26'	14°41'	7°12'	6°14'	24°27'	27°33'	S 15
S 16	7 37 44	24°51'38"	2°10'	16°54'	8°10'	13° 6'	29°27'	4°43'	26°14'	26°25'	14°40'	7°R12	6°11'	24°34'	27°33'	S 16
M17	7 41 40	25°52'43"	15° 0'	18°30'	9°25'	13°29'	29°40'	4°48'	26°17'	26°23'	14°38'	7°12'	6° 8'	24°40'	27°34'	M17
T 18	7 45 37	26°53'47"	27°39'	20° 6'	10°40'	13°52'	29°54'	4°54'	26°19'	26°22'	14°37'	7°11'	6° 4'	24°47'	27°34'	T 18
W19	7 49 34	27°54'51"	10°L 5	21°43'	11°56'	14°16'	0°H 7	4°59'	26°21'	26°20'	14°36'	7° 9'	6° 1'	24°54'	27°35'	W19
T 20	7 53 30	28°55'55"	22°20'	23°20'	13°11'	14°39'	0°20'	5° 4'	26°23'	26°19'	14°35'	7° 6'	5°58'	25° 1'	27°35'	T 20
F 21	7 57 27	29°56'57"	4°26'	24°58'	14°26'	15° 3'	0°34'	5° 9'	26°25'	26°17'	14°34'	7° 2'	5°55'	25° 7'	27°36'	F 21
S 22	8 1 23	0°58'00"	16°25'	26°36'	15°41'	15°28'	0°47'	5°14'	26°27'	26°16'	14°32'	6°58'	5°52'	25°14'	27°37'	S 22
S 23	8 5 20	1°59'01"	28°18'	28°15'	16°56'	15°52'	1° 1'	5°19'	26°30'	26°14'	14°31'	6°54'	5°49'	25°21'	27°38'	S 23
M24	8 9 16	3° 0'02"	10°L 9	29°55'	18°11'	16°17'	1°14'	5°24'	26°32'	26°13'	14°30'	6°50'	5°45'	25°27'	27°39'	M24
T 25	8 13 13	4° 1'03"	22° 3'	1°35'	19°27'	16°43'	1°28'	5°29'	26°34'	26°11'	14°29'	6°48'	5°42'	25°34'	27°40'	T 25
W26	8 17 9	5° 2'03"	4°11'	3°16'	20°42'	17° 8'	1°41'	5°34'	26°37'	26°10'	14°28'	6°D48	5°39'	25°41'	27°41'	W26
T 27	8 21 6	6° 3'03"	16°17'	4°58'	21°57'	17°34'	1°55'	5°38'	26°39'	26° 8'	14°26'	6°48'	5°36'	25°48'	27°42'	T 27
F 28	8 25 3	7° 4'02"	28°46'	6°40'	23°12'	18° 0'	2° 9'	5°43'	26°42'	26° 7'	14°25'	6°50'	5°33'	25°54'	27°43'	F 28
S 29	8 28 59	8° 5'00"	11°L35	8°22'	24°27'	18°26'	2°23'	5°47'	26°44'	26° 5'	14°24'	6°51'	5°29'	26° 1'	27°44'	S 29
S 30	8 32 56	9° 5'58"	24°49'	10° 6'	25°42'	18°53'	2°37'	5°52'	26°47'	26° 4'	14°23'	6°53'	5°26'	26° 8'	27°45'	S 30
M31	8 36 52	10°6'55"	8°L29	11°50'	26°55'	19°20'	2°H51	5°56'	26°H49	26°L 2	14°22'	6°R53	5°23'	26°14'	27°V46	M31

Delta T = 24.19 sec

FEBRUARY 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 40 49	11°7'51"	22°35'	13°35'	28°12'	19°47'	3°H 4	6°11'	26°H52	26°R 0	14°R21	6°R52	5°20'	26°21'	27°V48	T 1
W 2	8 44 45	12° 8'46"	7°44'	15°20'	29°27'	20°14'	3°18'	6° 5'	26°54'	25°L59	14°20'	6°50'	5°17'	26°28'	27°49'	W 2
T 3	8 48 42	13° 9'40"	21°51'	17° 6'	0°H42	20°41'	3°32'	6° 9'	26°57'	25°57'	14°19'	6°45'	5°14'	26°35'	27°50'	T 3
F 4	8 52 38	14°10'33"	6°H47	18°52'	1°57'	21° 9'	3°47'	6°13'	27° 0'	25°56'	14°17'	6°39'	5°10'	26°41'	27°52'	F 4
S 5	8 56 35	15°11'24"	21°45'	20°40'	3°12'	21°37'	4° 1'	6°17'	27° 3'	25°54'	14°16'	6°33'	5° 7'	26°48'	27°53'	S 5
S 6	9 0 32	16°12'15"	6°V34	22°27'	4°27'	22° 5'	4°15'	6°21'	27° 5'	25°52'	14°15'	6°28'	5° 4'	26°55'	27°55'	S 6
M 7	9 4 28	17°13'03"	21° 9'	24°15'	5°42'	22°33'	4°29'	6°25'	27° 8'	25°51'	14°14'	6°24'	5° 1'	27° 2'	27°57'	M 7
T 8	9 8 25	18°13'50"	5°B24	26° 3'	6°57'	23° 2'	4°43'	6°28'	27°11'	25°49'	14°13'	6°21'	4°58'	27° 8'	27°58'	T 8
W 9	9 12 21	19°14'36"	19°18'	27°51'	8°11'	23°31'	4°57'	6°32'	27°14'	25°47'	14°12'	6°D20	4°55'	27°15'	28° 0'	W 9
T 10	9 16 18	20°15'20"	2°II51	29°40'	9°26'	23°59'	5°12'	6°35'	27°17'	25°46'	14°11'	6°21'	4°51'	27°22'	28° 2'	T 10
F 11	9 20 14	21°16'03"	16° 4'	1°H28	10°41'	24°29'	5°26'	6°39'	27°20'	25°44'	14°10'	6°22'	4°48'	27°28'	28° 4'	F 11
S 12	9 24 11	22°16'44"	29° 1'	3°16'	11°56'	24°58'	5°40'	6°42'	27°22'	25°42'	14° 9'	6°23'	4°45'	27°35'	28° 6'	S 12
S 13	9 28 7	23°17'23"	11°L43	5° 4'	13°10'	25°27'	5°54'	6°46'	27°25'	25°41'	14° 8'	6°R23	4°42'	27°42'	28° 8'	S 13
M14	9 32 4	24°18'01"	24°14'	6°50'	14°25'	25°57'	6° 9'	6°49'	27°28'	25°39'	14° 7'	6°22'	4°39'	27°49'	28°10'	M14
T 15	9 36 1	25°18'37"	6°L34	8°36'	15°40'	26°27'	6°23'	6°52'	27°31'	25°37'	14° 7'	6°18'	4°35'	27°55'	28°12'	T 15
W16	9 39 57	26°19'11"	18°47'	10°20'	16°54'	26°57'	6°37'	6°55'	27°34'	25°36'	14° 6'	6°11'	4°32'	28° 2'	28°14'	W16
T 17	9 43 54	27°19'44"	0°25'	12° 2'	18° 9'	27°27'	6°52'	6°58'	27°37'	25°34'	14° 5'	6° 2'	4°29'	28° 9'	28°16'	T 17
F 18	9 47 50	28°20'16"	12°52'	13°42'	19°24'	27°57'	7° 6'	7° 1'	27°41'	25°32'	14° 4'	5°52'	4°26'	28°16'	28°18'	F 18
S 19	9 51 47	29°20'46"	24°48'	15°19'	20°38'	28°27'	7°21'	7° 3'	27°44'	25°30'	14° 3'	5°41'	4°23'	28°22'	28°20'	S 19
S 20	9 55 43	0°H21'14"	6°L40	16°52'	21°53'	28°58'	7°35'	7° 6'	27°47'	25°29'	14° 2'	5°31'	4°20'	28°29'	28°22'	S 20
M21	9 59 40	1°21'41"	18°32'	18°22'	23° 7'	29°28'	7°49'	7° 8'	27°50'	25°27'	14° 1'	5°22'	4°16'	28°36'	28°25'	M21
T 22	10 3 36	2°22'07"	0°L26	19°46'	24°22'	29°59'	8° 4'	7°11'	27°53'	25°25'	14° 1'	5°15'	4°13'	28°42'	28°27'	T 22
W23	10 7 33	3°22'31"	12°25'	21° 6'	25°36'	0°II30	8°18'	7°13'	27°56'	25°24'	14° 0'	5°10'	4°10'	28°49'	28°30'	W23
T 24	10 11 30	4°22'54"	24°34'	22°20'	26°50'	1° 1'	8°33'	7°16'	27°59'	25°22'	13°59'	5° 7'	4° 7'	28°56'	28°32'	T 24
F 25	10 15 26	5°23'16"	6°H58	23°27'	28° 5'	1°32'	8°47'	7°18'	28° 3'	25°20'	13°58'	5°D 7	4° 4'	29° 3'	28°34'	F 25
S 26	10 19 23	6°23'36"	19°41'	24°27'	29°19'	2° 3'	9° 2'	7°20'	28° 6'	25°19'	13°58'	5° 7'	4° 1'	29° 9'	28°37'	S 26
S 27	10 23 19	7°23'55"	2°349	25°20'	0°V33	2°35'	9°16'	7°22'	28° 9'	25°17'	13°57'	5°R 8	3°57'	29°16'	28°40'	S 27
M28	10 27 16	8°H24'12"	16°L23	26°H 4	1°V47	3°II 6	9°H31	7°H24	28°H12	25°L16	13°56'	5°D 7	3°54'	29°23'	28°V42	M28

Delta T = 24.21 sec

## ASTRODIENST EPHEMERIS for the year 1927

geocentric

MARCH 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 31 12	9°42'28"	0°28'28"	26°39'39"	3°17'22"	3°11'38"	9°45'45"	7°25'25"	28°16'16"	25°14'14"	13°56'56"	5°15'15"	3°51'51"	29°29'29"	28°45'45"	T 1
W 2	10 35 9	10°24'42"	15°0'0"	27°6'6"	4°16'16"	4°10'10"	10°0'0"	7°27'27"	28°19'19"	25°12'12"	13°55'55"	5°0'0"	3°48'48"	29°36'36"	28°47'47"	W 2
T 3	10 39 5	11°24'55"	29°57'57"	27°23'23"	5°30'30"	4°42'42"	10°14'14"	7°29'29"	28°22'22"	25°11'11"	13°54'54"	4°52'52"	3°45'45"	29°43'43"	28°50'50"	T 3
F 4	10 43 2	12°25'06"	15°39'39"	27°30'30"	6°44'44"	5°14'14"	10°29'29"	7°30'30"	28°26'26"	25°9'9"	13°54'54"	4°42'42"	3°41'41"	29°50'50"	28°53'53"	F 4
S 5	10 46 59	13°25'14"	0°17'26"	27°29'29"	7°58'58"	5°46'46"	10°43'43"	7°31'31"	28°29'29"	25°7'7"	13°53'53"	4°32'32"	3°38'38"	29°56'56"	28°56'56"	S 5
S 6	10 50 55	14°25'21"	15°38'38"	27°18'18"	9°12'12"	6°18'18"	10°58'58"	7°33'33"	28°32'32"	25°6'6"	13°53'53"	4°22'22"	3°35'35"	0°3'3"	28°59'59"	S 6
M 7	10 54 52	15°25'26"	0°33'33"	26°58'58"	10°26'26"	6°50'50"	11°12'12"	7°34'34"	28°36'36"	25°4'4"	13°52'52"	4°13'13"	3°32'32"	0°10'10"	29°1'1"	M 7
T 8	10 58 48	16°25'29"	15°4'4"	26°30'30"	11°40'40"	7°23'23"	11°27'27"	7°35'35"	28°39'39"	25°3'3"	13°52'52"	4°7'7"	3°29'29"	0°17'17"	29°4'4"	T 8
W 9	11 2 45	17°25'30"	29°9'9"	25°54'54"	12°54'54"	7°55'55"	11°41'41"	7°36'36"	28°42'42"	25°1'1"	13°51'51"	4°4'4"	3°26'26"	0°23'23"	29°7'7"	W 9
T 10	11 6 41	18°25'28"	12°11'46"	25°12'12"	14°8'8"	8°28'28"	11°56'56"	7°37'37"	28°46'46"	25°0'0"	13°51'51"	4°3'3"	3°22'22"	0°30'30"	29°10'10"	T 10
F 11	11 10 38	19°25'25"	25°58'58"	24°24'24"	15°22'22"	9°1'1"	12°10'10"	7°38'38"	28°49'49"	24°58'58"	13°50'50"	4°D 3'	3°19'19"	0°37'37"	29°13'13"	F 11
S 12	11 14 34	20°25'19"	8°34'48"	23°32'32"	16°35'35"	9°33'33"	12°24'24"	7°38'38"	28°53'53"	24°57'57"	13°50'50"	4°R 3'	3°16'16"	0°43'43"	29°16'16"	S 12
S 13	11 18 31	21°25'11"	21°20'20"	22°37'37"	17°49'49"	10°6'6"	12°39'39"	7°39'39"	28°56'56"	24°55'55"	13°49'49"	4°2'2"	3°13'13"	0°50'50"	29°19'19"	S 13
M14	11 22 28	22°25'00"	3°12'39"	21°39'39"	19°3'3"	10°39'39"	12°53'53"	7°39'39"	28°59'59"	24°54'54"	13°49'49"	3°58'58"	3°10'10"	0°57'57"	29°23'23"	M14
T 15	11 26 24	23°24'48"	15°47'47"	20°42'42"	20°16'16"	11°12'12"	13°8'8"	7°40'40"	29°3'3"	24°52'52"	13°49'49"	3°52'52"	3°6'6"	1°4'4"	29°26'26"	T 15
W16	11 30 21	24°24'33"	27°49'49"	19°44'44"	21°30'30"	11°45'45"	13°22'22"	7°40'40"	29°6'6"	24°51'51"	13°48'48"	3°43'43"	3°3'3"	1°10'10"	29°29'29"	W16
T 17	11 34 17	25°24'16"	9°11'46"	18°49'49"	22°43'43"	12°19'19"	13°36'36"	7°40'40"	29°10'10"	24°50'50"	13°48'48"	3°31'31"	3°0'0"	1°17'17"	29°32'32"	T 17
F 18	11 38 14	26°23'58"	21°41'41"	17°57'57"	23°57'57"	12°52'52"	13°51'51"	7°R 40'	29°13'13"	24°48'48"	13°48'48"	3°17'17"	2°57'57"	1°24'24"	29°35'35"	F 18
S 19	11 42 10	27°23'37"	3°34'34"	17°8'8"	25°10'10"	13°25'25"	14°5'5"	7°40'40"	29°17'17"	24°47'47"	13°48'48"	3°3'3"	2°54'54"	1°30'30"	29°38'38"	S 19
S 20	11 46 7	28°23'14"	15°26'26"	16°24'24"	26°24'24"	13°59'59"	14°19'19"	7°40'40"	29°20'20"	24°45'45"	13°47'47"	2°48'48"	2°51'51"	1°37'37"	29°42'42"	S 20
M21	11 50 3	29°22'49"	27°20'20"	15°45'45"	27°37'37"	14°32'32"	14°33'33"	7°40'40"	29°23'23"	24°44'44"	13°47'47"	2°36'36"	2°47'47"	1°44'44"	29°45'45"	M21
T 22	11 54 0	0°17'22"	9°11'18"	15°12'12"	28°50'50"	15°6'6"	14°48'48"	7°39'39"	29°27'27"	24°43'43"	13°47'47"	2°25'25"	2°44'44"	1°51'51"	29°48'48"	T 22
W23	11 57 56	1°21'54"	21°20'20"	14°44'44"	0°3'3"	15°39'39"	15°2'2"	7°39'39"	29°30'30"	24°41'41"	13°47'47"	2°17'17"	2°41'41"	1°57'57"	29°52'52"	W23
T 24	12 1 53	2°21'53"	3°17'31"	14°23'23"	1°16'16"	16°13'13"	15°16'16"	7°38'38"	29°34'34"	24°40'40"	13°47'47"	2°13'13"	2°38'38"	2°4'4"	29°55'55"	T 24
F 25	12 5 50	3°20'51"	15°55'55"	14°7'7"	2°29'29"	16°47'47"	15°30'30"	7°38'38"	29°37'37"	24°39'39"	13°47'47"	2°11'11"	2°35'35"	2°11'11"	29°58'58"	F 25
S 26	12 9 46	4°20'18"	28°35'35"	13°58'58"	3°42'42"	17°20'20"	15°44'44"	7°37'37"	29°40'40"	24°38'38"	13°47'47"	2°10'10"	2°32'32"	2°18'18"	0°2'2"	S 26
S 27	12 13 43	5°19'42"	11°36'36"	13°D 54'	4°55'55"	17°54'54"	15°58'58"	7°36'36"	29°44'44"	24°37'37"	13°47'47"	2°10'10"	2°28'28"	2°24'24"	0°5'5"	S 27
M28	12 17 39	6°19'05"	25°3'3"	13°57'57"	6°8'8"	18°28'28"	16°12'12"	7°35'35"	29°47'47"	24°35'35"	13°47'47"	2°9'9"	2°25'25"	2°31'31"	0°9'9"	M28
T 29	12 21 36	7°18'26"	8°35'57"	14°4'4"	7°21'21"	19°2'2"	16°26'26"	7°34'34"	29°51'51"	24°34'34"	13°D 47'	2°6'6"	2°22'22"	2°38'38"	0°12'12"	T 29
W30	12 25 32	8°17'45"	8°17'45"	14°18'18"	8°34'34"	19°36'36"	16°40'40"	7°33'33"	29°54'54"	24°33'33"	13°47'47"	2°1'1"	2°19'19"	2°44'44"	0°16'16"	W30
T 31	12 29 29	9°17'02"	8°17'02"	14°18'18"	9°47'47"	20°11'11"	16°45'45"	7°32'32"	29°58'58"	24°32'32"	13°47'47"	1°53'53"	2°16'16"	2°51'51"	0°19'19"	T 31

Delta T = 24.22 sec

APRIL 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 33 25	10°16'17"	23°18'18"	14°59'59"	10°58'58"	20°11'11"	17°8'8"	7°R30'	0°17'17"	24°R31'	13°47'47"	1°R43'	2°12'12"	2°58'58"	0°23'23"	F 1
S 2	12 37 22	11°15'31"	8°17'38"	15°27'27"	12°12'12"	21°19'19"	17°22'22"	7°29'29"	0°4'4"	24°L30'	13°47'47"	1°32'32"	2°9'9"	3°5'5"	0°26'26"	S 2
S 3	12 41 19	12°14'42"	23°56'56"	15°59'59"	13°25'25"	21°53'53"	17°36'36"	7°27'27"	0°8'8"	24°29'29"	13°47'47"	1°21'21"	2°6'6"	3°11'11"	0°30'30"	S 3
M 4	12 45 15	13°13'51"	9°1'1"	16°35'35"	14°37'37"	22°27'27"	17°50'50"	7°26'26"	0°11'11"	24°28'28"	13°47'47"	1°12'12"	2°3'3"	3°18'18"	0°33'33"	M 4
T 5	12 49 12	14°12'58"	23°45'45"	17°15'15"	15°50'50"	23°2'2"	18°4'4"	7°24'24"	0°14'14"	24°27'27"	13°47'47"	1°5'5"	2°0'0"	3°25'25"	0°37'37"	T 5
W 6	12 53 8	15°12'03"	8°11'1"	17°59'59"	17°2'2"	23°36'36"	18°17'17"	7°22'22"	0°18'18"	24°26'26"	13°47'47"	1°1'1"	1°57'57"	3°31'31"	0°41'41"	W 6
T 7	12 57 5	16°11'06"	21°48'48"	18°47'47"	18°14'14"	24°11'11"	18°31'31"	7°20'20"	0°21'21"	24°25'25"	13°48'48"	0°59'59"	1°53'53"	3°38'38"	0°44'44"	T 7
F 8	13 1 1	17°10'06"	5°3'6"	19°37'37"	19°27'27"	24°45'45"	18°45'45"	7°18'18"	0°24'24"	24°24'24"	13°48'48"	0°D59'	1°50'50"	3°45'45"	0°48'48"	F 8
S 9	13 4 58	18°9'04"	17°59'59"	20°31'31"	20°39'39"	25°20'20"	18°58'58"	7°16'16"	0°28'28"	24°23'23"	13°48'48"	0°R59'	1°47'47"	3°52'52"	0°51'51"	S 9
S 10	13 8 54	19°8'00"	0°12'31"	21°28'28"	21°51'51"	25°54'54"	19°12'12"	7°14'14"	0°31'31"	24°22'22"	13°48'48"	0°59'59"	1°44'44"	3°58'58"	0°55'55"	S 10
M11	13 12 51	20°6'54"	12°47'47"	22°28'28"	23°3'3"	26°29'29"	19°25'25"	7°12'12"	0°34'34"	24°22'22"	13°49'49"	0°56'56"	1°41'41"	4°5'5"	0°59'59"	M11
T 12	13 16 48	21°5'45"	24°51'51"	23°31'31"	24°15'15"	27°4'4"	19°39'39"	7°10'10"	0°38'38"	24°21'21"	13°49'49"	0°52'52"	1°38'38"	4°12'12"	1°2'2"	T 12
W13	13 20 44	22°4'34"	6°11'48"	24°36'36"	25°27'27"	27°38'38"	19°52'52"	7°7'7"	0°41'41"	24°20'20"	13°49'49"	0°44'44"	1°34'34"	4°19'19"	1°6'6"	W13
T 14	13 24 41	23°3'20"	18°41'41"	25°44'44"	26°39'39"	28°13'13"	20°5'5"	7°5'5"	0°44'44"	24°19'19"	13°50'50"	0°34'34"	1°31'31"	4°25'25"	1°10'10"	T 14
F 15	13 28 37	24°2'05"	0°33'33"	26°54'54"	27°50'50"	28°48'48"	20°19'19"	7°2'2"	0°47'47"	24°19'19"	13°50'50"	0°23'23"	1°28'28"	4°32'32"	1°13'13"	F 15
S 16	13 32 34	25°0'47"	12°26'26"	28°6'6"	29°2'2"	29°23'23"	20°32'32"	6°59'59"	0°51'51"	24°18'18"	13°51'51"	0°10'10"	1°25'25"	4°39'39"	1°17'17"	S 16
S 17	13 36 30	25°59'27"	24°21'21"	29°21'21"	0°11'11"	29°58'58"	20°45'45"	6°57'57"	0°54'54"	24°17'17"	13°51'51"	29°11'11"	1°22'22"	4°45'45"	1°21'21"	S 17
M18	13 40 27	26°58'06"	6°11'20"	0°17'37"	1°25'25"	0°33'33"	20°58'58"	6°54'54"	0°57'57"	24°17'17"	13°51'51"	29°47'47"	1°18'18"	4°52'52"	1°25'25"	M18
T 19	13 44 23	27°56'42"	18°25'25"	1°56'56"	2°37'37"	1°8'8"	21°11'11"	6°51'51"	1°0'0"	24°16'16"	13°52'52"	29°38'38"	1°15'15"	4°59'59"	1°28'28"	T 19
W20	13 48 20	28°55'17"	0°17'36"	3°17'37"	3°48'48"	1°43'43"	21°24'24"	6°48'48"	1°3'3"	24°16'16"	13°52'52"	29°32'32"	1°12'12"	5°6'6"	1°32'32"	W20
T 21	13 52 17	29°53'50"	12°57'57"	4°40'40"	4°59'59"	2°18'18"	21°37'37"	6°45'45"	1°6'6"	24°15'15"	13°53'53"	29°28'28"	1°9'9"	5°12'12"	1°36'36"	T 21
F 22	13 56 13	0°52'22"	25°28'28"	6°5'5"	6°10'10"	2°53'53"	21°50'50"	6°42'42"	1°9'9"	24°15'15"	13°54'54"	29°D27'	1°6'6"	5°19'19"	1°39'39"	F 22
S 23	14 0 10	1°50'51"	8°3'13"	7°32'32"	7°21'21"	3°28'28"	22°2'2"	6°39'39"	1°12'12"	24°14'14"	13°54'54"	29°27'27"	1°3'3"	5°26'26"	1°43'43"	S 23
S 24	14 4 6	2°49'19"	21°16'16"	9°0'0"	8°33'33"	4°3'3"	22°15'15"	6°35'35"	1°15'15"	24°14'14"	13°55'55"	29°28'28"	0°59'59"	5°33'33"	1°47'47"	S 24
M25	14 8 3	3°47'46"	4°34'40"	10°31'31"	9°43'43"	4°38'38"	22°28'28"	6°32'32"	1°19'19"	24°13'13"	13°55'55"	29°R28'	0°56'56"	5°39'39"	1°51'51"	M25
T 26	14 11 59	4°46'11"	18°26'26"	12°3'3"	10°54'54"	5°14'14"	22°40'40"	6°29'29"	1°22'22"	24°13'13"	13°56'56"	29°27'27"	0°53'53"	5°46'46"	1°54'54"	T 26
W27	14 15 56	5°44'34"	2°17'37"	13°37'37"	12°5'5"	5°49'49"	22°53'53"	6°25'25"	1°24'24"	24°13'13"	13°57'57"	29°24'24"	0°50'50"	5°53'53"	1°58'58"	W27
T 28	14 19 52	6°42'55"	17°11'11"	15°13'13"	13°16'16"	6°24'24"	23°5'5"	6°22'22"	1°27'27"	24°13'13"	13°57'57"	29°20'20"	0°47'47"	5°59'59"	2°2'2"	T 28
F 29	14 23 49	7°41'15"	2°17'37"	16°51'51"	14°26'26"	7°0'0"	23°18'18"	6°18'18"	1°30'30"	24°12'12"	13°58'58"	29°13'13"	0°43'43"	6°6'6"	2°5'5"	F 29
S 30	14 27 46	8°39'34"	1°17'37"	18°17'37"	15°11'11"	7°33'33"	23°18'30"	6°14'14"	1°17'33"	24°12'12"	13°59'59"	29°11'11"	0°40'40"	6°13'13"	2°8'8"	S 30

# ASTRODIENST EPHEMERIS for the year 1927

## geocentric

MAY 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 31 42	9♂3751	2♂13	20♀12	16♂47	8♂10	23♂42	6♂R11	1♀36	24♂R12	14♂0	28♂R58	0♂37	6♂20	2♂13	S 1
M 2	14 35 39	10°36'06	17°12	21°55	17°58	8°46	23°54	6♂7	1°39	24♂12	14°0	28♂51	0°34	6°26	2°17	M 2
T 3	14 39 35	11°34'19	1♂54	23°40	19°8	9°21	24°6	6°3	1°42	24°12	14°1	28°47	0°31	6°33	2°20	T 3
W 4	14 43 32	12°32'31	16°13	25°27	20°18	9°57	24°18	5°59	1°45	24°12	14°2	28°44	0°28	6°40	2°24	W 4
T 5	14 47 28	13°30'41	0♂5	27°16	21°28	10°32	24°30	5°55	1°47	24°11	14°3	28°D43	0°24	6°46	2°28	T 5
F 6	14 51 25	14°28'48	13°30	29°7	22°38	11°8	24°42	5°51	1°50	24°D11	14°4	28°44	0°21	6°53	2°31	F 6
S 7	14 55 21	15°26'54	26°28	0♂59	23°48	11°43	24°53	5°47	1°53	24°11	14°5	28°45	0°18	7°0	2°35	S 7
S 8	14 59 18	16°24'58	9♂5	2°53	24°58	12°19	25°5	5°43	1°56	24°12	14°6	28°46	0°15	7°7	2°39	S 8
M 9	15 3 15	17°23'00	21°24	4°49	26°7	12°55	25°16	5°39	1°58	24°12	14°6	28°R47	0°12	7°13	2°42	M 9
T 10	15 7 11	18°21'00	3♂29	6°47	27°17	13°30	25°28	5°35	2°1	24°12	14°7	28°45	0°9	7°20	2°46	T 10
W11	15 11 8	19°18'58	15°26	8°46	28°26	14°6	25°39	5°31	2°3	24°12	14°8	28°42	0°5	7°27	2°50	W11
T 12	15 15 4	20°16'55	27°18	10°48	29°35	14°42	25°50	5°27	2°6	24°12	14°9	28°38	0°2	7°34	2°53	T 12
F 13	15 19 1	21°14'49	9♂10	12°51	0♂44	15°18	26°2	5°22	2°8	24°12	14°10	28°32	29♂59	7°40	2°57	F 13
S 14	15 22 57	22°12'42	21°5	14°55	1°54	15°53	26°13	5°18	2°11	24°13	14°11	28°25	29°56	7°47	3°0	S 14
S 15	15 26 54	23°10'33	3♂5	17°1	3°2	16°29	26°24	5°14	2°13	24°13	14°12	28°19	29°53	7°54	3°4	S 15
M16	15 30 50	24°8'23	15°12	19°8	4°11	17°5	26°34	5°10	2°16	24°13	14°13	28°13	29°49	8°0	3°7	M16
T 17	15 34 47	25°6'11	27°27	21°17	5°20	17°41	26°45	5°5	2°18	24°13	14°15	28°9	29°46	8°7	3°11	T 17
W18	15 38 44	26°3'58	9♂52	23°27	6°28	18°17	26°56	5°1	2°21	24°14	14°16	28°6	29°43	8°14	3°14	W18
T 19	15 42 40	27°1'44	22°28	25°37	7°37	18°52	27°6	4°56	2°23	24°14	14°17	28°D4	29°40	8°21	3°18	T 19
F 20	15 46 37	27°59'28	5♂16	27°48	8°45	19°28	27°17	4°52	2°25	24°15	14°18	28°4	29°37	8°27	3°21	F 20
S 21	15 50 33	28°57'11	18°16	29°59	9°53	20°4	27°27	4°48	2°27	24°15	14°19	28°5	29°34	8°34	3°25	S 21
S 22	15 54 30	29°54'53	1♂31	2♂11	11°1	20°40	27°37	4°43	2°30	24°16	14°20	28°7	29°30	8°41	3°28	S 22
M23	15 58 26	0♂52'34	15°2	4°23	12°9	21°16	27°47	4°39	2°32	24°16	14°21	28°8	29°27	8°47	3°32	M23
T 24	16 2 23	1°50'13	28°49	6°34	13°17	21°52	27°57	4°34	2°34	24°17	14°22	28°R9	29°24	8°54	3°35	T 24
W25	16 6 19	2°47'52	12♂53	8°44	14°24	22°28	28°7	4°30	2°36	24°17	14°24	28°9	29°21	9°1	3°38	W25
T 26	16 10 16	3°45'30	27°13	10°53	15°31	23°4	28°17	4°25	2°38	24°18	14°25	28°7	29°18	9°8	3°42	T 26
F 27	16 14 13	4°43'07	11♀45	13°1	16°39	23°40	28°27	4°21	2°40	24°19	14°26	28°5	29°15	9°14	3°45	F 27
S 28	16 18 9	5°40'43	26°25	15°8	17°46	24°16	28°36	4°16	2°42	24°19	14°27	28°2	29°11	9°21	3°48	S 28
S 29	16 22 2	6°38'18	11♂8	17°13	18°53	24°53	28°46	4°12	2°44	24°20	14°29	27°59	29°8	9°28	3°52	S 29
M30	16 26 2	7°35'52	25°45	19°16	20°0	25°29	28°55	4°7	2°46	24°21	14°30	27°57	29°5	9°35	3°55	M30
T 31	16 29 59	8♂33'25	10♂10	21♂17	21♂6	26♂5	29♂4	4♂3	2°48	24♂22	14♂31	27♂55	29♂2	9♂41	3♂58	T 31

Delta T = 24.24 sec

JUNE 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 33 55	9♂30'58	24♂19	23♂16	22♂13	26♂41	29♂13	3°R59	2♀50	24♂22	14♂32	27°D54	28♂59	9♂48	4♂1	W 1
T 2	16 37 52	10°28'29	8♂5	25°12	23°19	27°17	29°22	3♂54	2°51	24°23	14°34	27♂55	28°55	9°55	4°4	T 2
F 3	16 41 48	11°25'58	21°29	27°6	24°25	27°54	29°31	3°50	2°53	24°24	14°35	27°56	28°52	10°1	4°8	F 3
S 4	16 45 45	12°23'27	4♂30	28°58	25°31	28°30	29°40	3°45	2°55	24°25	14°36	27°57	28°49	10°8	4°11	S 4
S 5	16 49 42	13°20'54	17°10	0♂47	26°36	29°6	29°48	3°41	2°56	24°26	14°38	27°58	28°46	10°15	4°14	S 5
M 6	16 53 38	14°18'21	29°32	2°33	27°42	29°42	29°56	3°37	2°58	24°27	14°39	27°59	28°43	10°22	4°17	M 6
T 7	16 57 35	15°15'45	11♂40	4°17	28°47	0♂19	0♀5	3°32	3°0	24°28	14°40	27°R59	28°40	10°28	4°20	T 7
W 8	17 1 31	16°13'09	23°38	5°58	29°52	0°55	0°13	3°28	3°1	24°29	14°42	27°59	28°36	10°35	4°23	W 8
T 9	17 5 28	17°10'32	5♂32	7°37	0♂57	1°31	0°21	3°24	3°2	24°30	14°43	27°59	28°33	10°42	4°26	T 9
F 10	17 9 24	18°7'54	17°25	9°12	2°2	2°8	0°29	3°19	3°4	24°31	14°45	27°58	28°30	10°48	4°29	F 10
S 11	17 13 21	19°5'14	29°22	10°46	3°6	2°44	0°36	3°15	3°5	24°32	14°46	27°57	28°27	10°55	4°32	S 11
S 12	17 17 17	20°2'34	11♂26	12°16	4°10	3°21	0°44	3°11	3°7	24°33	14°47	27°55	28°24	11°2	4°35	S 12
M13	17 21 14	20°59'53	23°40	13°43	5°14	3°57	0°51	3°7	3°8	24°35	14°49	27°54	28°21	11°9	4°37	M13
T 14	17 25 11	21°57'11	6♂7	15°8	6°18	4°34	0°59	3°3	3°9	24°36	14°50	27°54	28°17	11°15	4°40	T 14
W15	17 29 7	22°54'28	18°47	16°30	7°21	5°10	1°6	2°59	3°10	24°37	14°52	27°53	28°14	11°22	4°43	W15
T 16	17 33 4	23°51'45	1♂42	17°49	8°25	5°47	1°13	2°55	3°11	24°38	14°53	27°D53	28°11	11°29	4°46	T 16
F 17	17 37 0	24°49'01	14°52	19°5	9°27	6°23	1°19	2°51	3°13	24°40	14°55	27°54	28°8	11°36	4°48	F 17
S 18	17 40 57	25°46'17	28°16	20°18	10°30	7°0	1°26	2°47	3°14	24°41	14°56	27°54	28°5	11°42	4°51	S 18
S 19	17 44 53	26°43'32	11♂53	21°28	11°32	7°36	1°33	2°43	3°15	24°42	14°58	27°54	28°1	11°49	4°54	S 19
M20	17 48 50	27°40'47	25°42	22°35	12°34	8°13	1°39	2°39	3°16	24°44	14°59	27°R54	27°58	11°56	4°56	M20
T 21	17 52 46	28°38'02	9♂41	23°39	13°36	8°49	1°45	2°35	3°17	24°45	15°1	27°54	27°55	12°2	4°59	T 21
W22	17 56 43	29°35'16	23°48	24°40	14°38	9°26	1°51	2°31	3°17	24°46	15°2	27°D54	27°52	12°9	5°1	W22
T 23	18 0 40	0♂32'31	8♀1	25°37	15°39	10°3	1°57	2°28	3°18	24°48	15°4	27°54	27°49	12°16	5°4	T 23
F 24	18 4 36	1°29'45	22°19	26°31	16°40	10°39	2°3	2°24	3°19	24°49	15°5	27°54	27°46	12°23	5°6	F 24
S 25	18 8 33	2°26'59	6♂37	27°22	17°40	11°16	2°8	2°21	3°20	24°51	15°7	27°54	27°42	12°29	5°8	S 25
S 26	18 12 29	3°24'14	20°53	28°9	18°40	11°53	2°14	2°17	3°20	24°52	15°8	27°55	27°39	12°36	5°11	S 26
M27	18 16 26	4°21'28	5♂2	28°52	19°40	12°30	2°19	2°14	3°21	24°54	15°10	27°55	27°36	12°43	5°13	M27
T 28	18 20 22	5°18'42	19°2	29°31	20°40	13°6	2°24	2°10	3°22	24°55	15°11	27°56	27°33	12°49	5°15	T 28
W29	18 24 19	6°15'56	2♂49	0♂6	21°39	13°43	2°29	2°7	3°22	24°57	15°13	27°R56	27°30	12°56	5°18	W29
T 30	18 28 16	7♂13'10	16♂20	0♂37	22♂37	14♂20	2♀34	2♂4	3♀23	24♂59	15♂14	27♂55	27♂27	13♂3	5♂20	T 30

Delta T = 24.25 sec

ASTRODIENST EPHEMERIS for the year 1927  
geocentric

JULY 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 32 12	8♌10'24	29♌34	1♌4	23♌36	14♌57	2♌38	2♌R 1	3♌23	25♌0	15♌16	27♌R55	27♌II23	13♌10	5♌22	F 1
S 2	18 36 9	9° 7'37	12♌29	1°27	24°34	15°34	2°42	1♌57	3°24	25° 2	15°17	27♌II53	27°20	13°16	5°24	S 2
S 3	18 40 5	10° 4'50	25° 6	1°45	25°31	16°11	2°47	1°54	3°24	25° 4	15°19	27°52	27°17	13°23	5°26	S 3
M 4	18 44 2	11° 2'03	7♌28	1°59	26°28	16°48	2°51	1°51	3°24	25° 5	15°20	27°50	27°14	13°30	5°28	M 4
T 5	18 47 58	11°59'16	19°37	2° 8	27°25	17°25	2°54	1°49	3°24	25° 7	15°22	27°48	27°11	13°36	5°30	T 5
W 6	18 51 55	12°56'28	1♌36	2♌R13	28°21	18° 1	2°58	1°46	3°25	25° 9	15°23	27°47	27° 7	13°43	5°32	W 6
T 7	18 55 51	13°53'40	13°30	2°13	29°17	18°38	3° 1	1°43	3°25	25°10	15°25	27°D47	27° 4	13°50	5°34	T 7
F 8	18 59 48	14°50'52	25°23	2° 8	0♌12	19°15	3° 5	1°40	3°25	25°12	15°27	27°47	27° 1	13°57	5°35	F 8
S 9	19 3 45	15°48'04	7♌21	1°58	1° 6	19°52	3° 8	1°38	3°25	25°14	15°28	27°48	26°58	14° 3	5°37	S 9
S 10	19 7 41	16°45'16	19°27	1°44	2° 0	20°30	3°11	1°35	3°R25	25°16	15°30	27°50	26°55	14°10	5°39	S 10
M 11	19 11 38	17°42'27	1♌45	1°25	2°54	21° 7	3°13	1°33	3°25	25°18	15°31	27°51	26°52	14°17	5°40	M 11
T 12	19 15 34	18°39'39	14°20	1° 3	3°47	21°44	3°16	1°30	3°25	25°19	15°33	27°52	26°48	14°23	5°42	T 12
W 13	19 19 31	19°36'51	27°13	0°36	4°39	22°21	3°18	1°28	3°25	25°21	15°34	27°R53	26°45	14°30	5°44	W 13
T 14	19 23 27	20°34'03	10♌26	0° 6	5°31	22°58	3°20	1°26	3°24	25°23	15°36	27°52	26°42	14°37	5°45	T 14
F 15	19 27 24	21°31'15	23°58	29♌32	6°22	23°35	3°22	1°24	3°24	25°25	15°37	27°51	26°39	14°44	5°47	F 15
S 16	19 31 20	22°28'28	7♌48	28°56	7°12	24°12	3°24	1°22	3°24	25°27	15°39	27°48	26°36	14°50	5°48	S 16
S 17	19 35 17	23°25'41	21°53	28°18	8° 2	24°49	3°26	1°20	3°24	25°29	15°40	27°45	26°33	14°57	5°49	S 17
M 18	19 39 14	24°22'54	6♌7	27°38	8°51	25°27	3°27	1°18	3°23	25°31	15°42	27°41	26°29	15° 4	5°51	M 18
T 19	19 43 10	25°20'08	20°27	26°57	9°39	26° 4	3°28	1°17	3°23	25°33	15°44	27°38	26°26	15°11	5°52	T 19
W 20	19 47 7	26°17'23	4♌48	26°16	10°26	26°41	3°29	1°15	3°22	25°35	15°45	27°35	26°23	15°17	5°53	W 20
T 21	19 51 3	27°14'38	19° 6	25°36	11°13	27°18	3°30	1°13	3°22	25°37	15°47	27°34	26°20	15°24	5°54	T 21
F 22	19 55 0	28°11'55	3♌18	24°57	11°59	27°56	3°31	1°12	3°21	25°39	15°48	27°D34	26°17	15°31	5°55	F 22
S 23	19 58 56	29° 9'12	17°22	24°20	12°44	28°33	3°31	1°11	3°21	25°41	15°50	27°35	26°13	15°37	5°56	S 23
S 24	20 2 53	0♌6'30	1♌17	23°45	13°28	29°10	3°31	1° 9	3°20	25°43	15°51	27°36	26°10	15°44	5°57	S 24
M 25	20 6 49	1° 3'49	15° 2	23°14	14°11	29°48	3°R31	1° 8	3°19	25°45	15°53	27°37	26° 7	15°51	5°58	M 25
T 26	20 10 46	2° 1'09	28°36	22°47	14°53	0♌25	3°31	1° 7	3°18	25°47	15°54	27°R38	26° 4	15°58	5°59	T 26
W 27	20 14 43	2°58'30	11♌58	22°24	15°34	1° 3	3°31	1° 6	3°18	25°49	15°56	27°37	26° 1	16° 4	6° 0	W 27
T 28	20 18 39	3°55'52	25° 7	22° 6	16°15	1°40	3°30	1° 5	3°17	25°51	15°57	27°34	25°58	16°11	6° 1	T 28
F 29	20 22 36	4°53'14	8♌4	21°54	16°54	2°18	3°29	1° 4	3°16	25°53	15°59	27°30	25°54	16°18	6° 2	F 29
S 30	20 26 32	5°50'37	20°46	21°47	17°32	2°55	3°28	1° 4	3°15	25°55	16° 0	27°24	25°51	16°24	6° 2	S 30
S 31	20 30 29	6♌48'01	3♌16	21°D46	18♌9	3♌33	3♌27	1♌3	3♌14	25♌58	16♌2	27♌II17	25♌II48	16♌31	6♌3	S 31

Delta T = 24.26 sec

AUGUST 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 34 25	7♌45'25	15♌32	21♌51	18♌44	4♌10	3°R26	1°R 2	3°R13	26♌0	16♌3	27°R10	25♌II45	16♌38	6♌3	M 1
T 2	20 38 22	8°42'50	27°38	22° 3	19°19	4°48	3♌24	1♌2	3♌12	26° 2	16° 5	27°II 4	25°42	16°45	6° 4	T 2
W 3	20 42 18	9°40'16	9♌36	22°21	19°52	5°26	3°22	1° 2	3°11	26° 4	16° 6	26°58	25°39	16°51	6° 4	W 3
T 4	20 46 15	10°37'43	21°28	22°45	20°23	6° 3	3°20	1° 2	3°10	26° 6	16° 7	26°55	25°35	16°58	6° 5	T 4
F 5	20 50 12	11°35'10	3♌20	23°16	20°54	6°41	3°18	1° 1	3° 8	26° 8	16° 9	26°53	25°32	17° 5	6° 5	F 5
S 6	20 54 8	12°32'38	15°16	23°53	21°22	7°19	3°16	1°D 1	3° 7	26°10	16°10	26°D52	25°29	17°11	6° 5	S 6
S 7	20 58 5	13°30'06	27°20	24°37	21°50	7°56	3°13	1° 1	3° 6	26°13	16°12	26°53	25°26	17°18	6° 6	S 7
M 8	21 2 1	14°27'36	9♌39	25°27	22°16	8°34	3°11	1° 2	3° 5	26°15	16°13	26°54	25°23	17°25	6° 6	M 8
T 9	21 5 58	15°25'06	22°16	26°23	22°40	9°12	3° 8	1° 2	3° 3	26°17	16°14	26°R55	25°19	17°32	6° 6	T 9
W 10	21 9 54	16°22'38	5♌15	27°26	23° 2	9°50	3° 5	1° 2	3° 2	26°19	16°16	26°55	25°16	17°38	6° 6	W 10
T 11	21 13 51	17°20'10	18°39	28°34	23°23	10°28	3° 1	1° 3	3° 0	26°21	16°17	26°53	25°13	17°45	6°R 6	T 11
F 12	21 17 47	18°17'43	2♌28	29°48	23°41	11° 6	2°58	1° 3	2°59	26°24	16°19	26°49	25°10	17°52	6° 6	F 12
S 13	21 21 44	19°15'17	16°40	1♌8	23°58	11°43	2°54	1° 4	2°57	26°26	16°20	26°43	25° 7	17°58	6° 6	S 13
S 14	21 25 41	20°12'52	1♌10	2°32	24°13	12°21	2°50	1° 5	2°56	26°28	16°21	26°35	25° 4	18° 5	6° 6	S 14
M 15	21 29 37	21°10'29	15°53	4° 2	24°26	12°59	2°46	1° 5	2°54	26°30	16°23	26°27	25° 0	18°12	6° 5	M 15
T 16	21 33 34	22° 8'07	0♌39	5°36	24°37	13°37	2°42	1° 6	2°53	26°32	16°24	26°19	24°57	18°19	6° 5	T 16
W 17	21 37 30	23° 5'46	15°21	7°15	24°46	14°15	2°38	1° 7	2°51	26°35	16°25	26°12	24°54	18°25	6° 5	W 17
T 18	21 41 27	24° 3'27	29°53	8°57	24°53	14°53	2°33	1° 9	2°49	26°37	16°26	26° 8	24°51	18°32	6° 5	T 18
F 19	21 45 23	25° 1'10	14♌10	10°43	24°57	15°31	2°29	1°10	2°48	26°39	16°28	26° 5	24°48	18°39	6° 4	F 19
S 20	21 49 20	25°58'54	28°11	12°32	25°R 0	16° 9	2°24	1°11	2°46	26°41	16°29	26°D 5	24°44	18°45	6° 4	S 20
S 21	21 53 16	26°56'40	11♌55	14°24	24°59	16°48	2°19	1°13	2°44	26°43	16°30	26° 5	24°41	18°52	6° 3	S 21
M 22	21 57 13	27°54'28	25°23	16°18	24°57	17°26	2°13	1°14	2°42	26°46	16°31	26°R 6	24°38	18°59	6° 2	M 22
T 23	22 1 10	28°52'17	8♌37	18°13	24°52	18° 4	2° 8	1°16	2°40	26°48	16°33	26° 5	24°35	19° 5	6° 2	T 23
W 24	22 5 6	29°50'08	21°37	20°10	24°45	18°42	2° 3	1°17	2°39	26°50	16°34	26° 2	24°32	19°12	6° 1	W 24
T 25	22 9 3	0♌48'01	4♌26	22° 8	24°36	19°20	1°57	1°19	2°37	26°52	16°35	25°57	24°29	19°19	6° 0	T 25
F 26	22 12 59	1°45'55	17° 4	24° 7	24°24	19°59	1°51	1°21	2°35	26°55	16°36	25°49	24°25	19°26	6° 0	F 26
S 27	22 16 56	2°43'51	29°32	26° 6	24°10	20°37	1°45	1°23	2°33	26°57	16°37	25°39	24°22	19°32	5°59	S 27
S 28	22 20 52	3°41'49	11♌49	28° 5	23°54	21°15	1°39	1°25	2°31	26°59	16°38	25°27	24°19	19°39	5°58	S 28
M 29	22 24 49	4°39'47	23°58	0♌4	23°35	21°54	1°33	1°27	2°29	27° 1	16°40	25°14	24°16	19°46	5°57	M 29
T 30	22 28 45	5°37'48	5♌58	2° 3	23°14	22°32	1°26	1°30	2°27	27° 3	16°41	25° 2	24°13	19°52	5°56	T 30
W 31	22 32 42	6♌35'50	17♌52	4♌1	22♌51	23♌11	1♌20	1♌32	2♌25	27♌6	16♌42	24♌II51	24♌II10	19♌59	5♌55	W 31

Delta T = 24.27 sec

# ASTRODIENST EPHEMERIS for the year 1927

## geocentric

SEPTEMBER 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 36 39	7 <sup>h</sup> 33'53"	29 <sup>h</sup> 42'	5 <sup>h</sup> 59'	22°R25	23 <sup>h</sup> 49'	1°R13	1 <sup>h</sup> 34'	2°R22	27 <sup>h</sup> 8'	16 <sup>h</sup> 43'	24°R43	24 <sup>h</sup> 6'	20 <sup>h</sup> 6'	5°R53	T 1
F 2	22 40 35	8°31'58"	11 <sup>h</sup> 32'	7°55'	21 <sup>h</sup> 58'	24°28'	1°Y 6	1°37'	2°Y20	27°10'	16°44'	24 <sup>h</sup> 38'	24° 3	20°13'	5°52'	F 2
S 3	22 44 32	9°30'04"	23°25'	9°51'	21°29'	25° 6	1° 0	1°40'	2°18'	27°12'	16°45'	24°35'	24° 0	20°19'	5°51'	S 3
S 4	22 48 28	10°28'11"	5 <sup>h</sup> 27'	11°46'	20°58'	25°45'	0°53'	1°42'	2°16'	27°14'	16°46'	24°33'	23°57'	20°26'	5°50'	S 4
M 5	22 52 25	11°26'21"	17°43'	13°40'	20°26'	26°23'	0°46'	1°45'	2°14'	27°17'	16°47'	24°33'	23°54'	20°33'	5°48'	M 5
T 6	22 56 21	12°24'31"	0 <sup>h</sup> 31'	15°32'	19°52'	27° 2	0°38'	1°48'	2°12'	27°19'	16°48'	24°33'	23°50'	20°39'	5°47'	T 6
W 7	23 0 18	13°22'43"	13°15'	17°24'	19°18'	27°41'	0°31'	1°51'	2° 9	27°21'	16°49'	24°32'	23°47'	20°46'	5°46'	W 7
T 8	23 4 14	14°20'57"	26°40'	19°14'	18°42'	28°19'	0°24'	1°54'	2° 7	27°23'	16°50'	24°29'	23°44'	20°53'	5°44'	T 8
F 9	23 8 11	15°19'12"	10 <sup>h</sup> 35'	21° 4	18° 5	28°58'	0°16'	1°57'	2° 5	27°25'	16°51'	24°23'	23°41'	21° 0	5°43'	F 9
S 10	23 12 8	16°17'29"	24°57'	22°52'	17°29'	29°37'	0° 9	2° 1	2° 3	27°27'	16°52'	24°15'	23°38'	21° 6	5°41'	S 10
S 11	23 16 4	17°15'47"	9 <sup>h</sup> 44'	24°39'	16°51'	0 <sup>h</sup> 16'	0° 1	2° 4	2° 0	27°29'	16°52'	24° 5	23°35'	21°13'	5°39'	S 11
M12	23 20 1	18°14'07"	24°46'	26°25'	16°14'	0°54'	29 <sup>h</sup> 54'	2° 7	1°58'	27°32'	16°53'	23°54'	23°31'	21°20'	5°38'	M12
T 13	23 23 57	19°12'29"	9°Y55'	28° 9	15°37'	1°33'	29°46'	2°11'	1°56'	27°34'	16°54'	23°43'	23°28'	21°26'	5°36'	T 13
W14	23 27 54	20°10'53"	24°59'	29°53'	15° 1	2°12'	29°38'	2°14'	1°53'	27°36'	16°55'	23°34'	23°25'	21°33'	5°34'	W14
T 15	23 31 50	21° 9'19"	9 <sup>h</sup> 51'	1 <sup>h</sup> 36'	14°25'	2°51'	29°30'	2°18'	1°51'	27°38'	16°56'	23°27'	23°22'	21°40'	5°32'	T 15
F 16	23 35 47	22° 7'47"	24°22'	3°17'	13°50'	3°30'	29°22'	2°22'	1°49'	27°40'	16°56'	23°23'	23°19'	21°46'	5°31'	F 16
S 17	23 39 43	23° 6'17"	8 <sup>h</sup> 31'	4°57'	13°17'	4° 9	29°14'	2°26'	1°46'	27°42'	16°57'	23°22'	23°16'	21°53'	5°29'	S 17
S 18	23 43 40	24° 4'50"	22°15'	6°37'	12°45'	4°48'	29° 6	2°29'	1°44'	27°44'	16°58'	23°21'	23°12'	22° 0	5°27'	S 18
M19	23 47 36	25° 3'25"	5 <sup>h</sup> 38'	8°15'	12°14'	5°27'	28°58'	2°33'	1°41'	27°46'	16°59'	23°21'	23° 9	22° 7	5°25'	M19
T 20	23 51 33	26° 2'02"	18°41'	9°52'	11°46'	6° 6	28°51'	2°37'	1°39'	27°48'	16°59'	23°20'	23° 6	22°13'	5°23'	T 20
W21	23 55 30	27° 0'41"	1 <sup>h</sup> 28'	11°29'	11°19'	6°46'	28°42'	2°42'	1°37'	27°50'	17° 0	23°16'	23° 3	22°20'	5°21'	W21
T 22	23 59 26	27°59'23"	14° 2	13° 4	10°54'	7°25'	28°34'	2°46'	1°34'	27°52'	17° 1	23°10'	23° 0	22°27'	5°19'	T 22
F 23	0 3 23	28°58'06"	26°24'	14°38'	10°31'	8° 4	28°26'	2°50'	1°32'	27°54'	17° 1	23° 1	22°56'	22°33'	5°16'	F 23
S 24	0 7 19	29°56'52"	8 <sup>h</sup> 38'	16°12'	10°11'	8°43'	28°18'	2°54'	1°29'	27°56'	17° 2	22°49'	22°53'	22°40'	5°14'	S 24
S 25	0 11 16	0 <sup>h</sup> 55'39"	20°44'	17°44'	9°52'	9°22'	28°10'	2°59'	1°27'	27°58'	17° 3	22°36'	22°50'	22°47'	5°12'	S 25
M26	0 15 12	1°54'29"	2 <sup>h</sup> 44'	19°16'	9°36'	10° 2	28° 2	3° 3	1°25'	28° 0	17° 3	22°21'	22°47'	22°54'	5°10'	M26
T 27	0 19 9	2°53'21"	14°39'	20°46'	9°23'	10°41'	27°54'	3° 8	1°22'	28° 2	17° 4	22° 8	22°44'	23° 0	5° 7	T 27
W28	0 23 5	3°52'14"	26°30'	22°16'	9°12'	11°21'	27°46'	3°13'	1°20'	28° 4	17° 4	21°56'	22°41'	23° 7	5° 5	W28
T 29	0 27 2	4°51'10"	8 <sup>h</sup> 20'	23°45'	9° 3	12° 0	27°39'	3°17'	1°17'	28° 6	17° 5	21°46'	22°37'	23°14'	5° 3	T 29
F 30	0 30 59	5 <sup>h</sup> 50'07"	20 <sup>h</sup> 9'	25 <sup>h</sup> 12'	8 <sup>h</sup> 57'	12 <sup>h</sup> 40'	27 <sup>h</sup> 31'	3 <sup>h</sup> 22'	1°Y15	28 <sup>h</sup> 8'	17 <sup>h</sup> 5	21 <sup>h</sup> 39'	22 <sup>h</sup> 34'	23 <sup>h</sup> 20'	5° 0	F 30

Delta T = 24.28 sec

OCTOBER 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 34 55	6 <sup>h</sup> 49'07"	2 <sup>h</sup> 2'	26 <sup>h</sup> 39'	8°R53	13 <sup>h</sup> 19'	27°R23	3 <sup>h</sup> 27'	1°R13	28 <sup>h</sup> 9'	17 <sup>h</sup> 6'	21°R35	22 <sup>h</sup> 31'	23 <sup>h</sup> 27'	4°R58	S 1
S 2	0 38 52	7°48'08"	14° 3	28° 5	8°D51	13°59'	27 <sup>h</sup> 15'	3°32'	1°Y10	28°11'	17° 6	21 <sup>h</sup> 34'	22°28'	23°34'	4°56'	S 2
M 3	0 42 48	8°47'11"	26°17'	29°30'	8 <sup>h</sup> 56'	14°38'	27° 7	3°37'	1° 8	28°13'	17° 6	21°D33	22°25'	23°40'	4°53'	M 3
T 4	0 46 45	9°46'16"	8 <sup>h</sup> 347'	0 <sup>h</sup> 54'	8°56'	15°18'	27° 0	3°42'	1° 5	28°15'	17° 7	21°R34	22°21'	23°47'	4°51'	T 4
W 5	0 50 41	10°45'22"	21°40'	2°16'	9° 1	15°58'	26°52'	3°47'	1° 3	28°16'	17° 7	21°33'	22°18'	23°54'	4°48'	W 5
T 6	0 54 38	11°44'31"	4 <sup>h</sup> 59'	3°38'	9° 9	16°37'	26°45'	3°52'	1° 1	28°18'	17° 7	21°31'	22°15'	24° 1	4°45'	T 6
F 7	0 58 34	12°43'41"	18°48'	4°58'	9°19'	17°17'	26°37'	3°58'	0°58'	28°20'	17° 8	21°27'	22°12'	24° 7	4°43'	F 7
S 8	1 2 31	13°42'52"	3 <sup>h</sup> 7'	6°18'	9°31'	17°57'	26°30'	4° 3	0°56'	28°22'	17° 8	21°20'	22° 9	24°14'	4°40'	S 8
S 9	1 6 28	14°42'06"	17°54'	7°36'	9°45'	18°37'	26°23'	4° 8	0°54'	28°23'	17° 8	21°11'	22° 6	24°21'	4°38'	S 9
M10	1 10 24	15°41'21"	3°Y 1	8°53'	10° 1	19°16'	26°16'	4°14'	0°51'	28°25'	17° 8	21° 1	22° 2	24°27'	4°35'	M10
T 11	1 14 21	16°40'39"	18°20'	10° 8	10°20'	19°56'	26° 8	4°19'	0°49'	28°26'	17° 9	20°51'	21°59'	24°34'	4°32'	T 11
W12	1 18 17	17°39'58"	3 <sup>h</sup> 38'	11°22'	10°40'	20°36'	26° 2	4°25'	0°47'	28°28'	17° 9	20°43'	21°56'	24°41'	4°29'	W12
T 13	1 22 14	18°39'20"	18°45'	12°34'	11° 2	21°16'	25°55'	4°30'	0°44'	28°30'	17° 9	20°37'	21°53'	24°47'	4°27'	T 13
F 14	1 26 10	19°38'44"	3 <sup>h</sup> 32'	13°45'	11°26'	21°56'	25°48'	4°36'	0°42'	28°31'	17° 9	20°34'	21°50'	24°54'	4°24'	F 14
S 15	1 30 7	20°38'10"	17°54'	14°54'	11°52'	22°36'	25°41'	4°42'	0°40'	28°33'	17° 9	20°D32	21°47'	25° 1	4°21'	S 15
S 16	1 34 3	21°37'39"	1 <sup>h</sup> 49'	16° 1	12°19'	23°16'	25°35'	4°48'	0°38'	28°34'	17° 9	20°33'	21°43'	25° 8	4°18'	S 16
M17	1 38 0	22°37'10"	15°16'	17° 6	12°48'	23°56'	25°29'	4°53'	0°36'	28°36'	17° 9	20°34'	21°40'	25°14'	4°16'	M17
T 18	1 41 57	23°36'43"	28°20'	18° 8	13°18'	24°37'	25°23'	4°59'	0°33'	28°37'	17° 9	20°R34	21°37'	25°21'	4°13'	T 18
W19	1 45 53	24°36'18"	11 <sup>h</sup> 3'	19° 8	13°50'	25°17'	25°16'	5° 5	0°31'	28°39'	17°R 9	20°32'	21°34'	25°28'	4°10'	W19
T 20	1 49 50	25°35'56"	23°30'	20° 4	14°24'	25°57'	25°11'	5°11'	0°29'	28°40'	17° 9	20°28'	21°31'	25°34'	4° 7	T 20
F 21	1 53 46	26°35'36"	5 <sup>h</sup> 44'	20°58'	14°59'	26°37'	25° 5	5°17'	0°27'	28°41'	17° 9	20°22'	21°27'	25°41'	4° 4	F 21
S 22	1 57 43	27°35'18"	17°48'	21°48'	15°35'	27°18'	24°59'	5°23'	0°25'	28°43'	17° 9	20°14'	21°24'	25°48'	4° 1	S 22
S 23	2 1 39	28°35'02"	29°46'	22°35'	16°13'	27°58'	24°54'	5°29'	0°23'	28°44'	17° 9	20° 5	21°21'	25°54'	3°59'	S 23
M24	2 5 36	29°34'49"	11 <sup>h</sup> 40'	23°17'	16°52'	28°38'	24°48'	5°36'	0°21'	28°45'	17° 9	19°54'	21°18'	26° 1	3°56'	M24
T 25	2 9 32	0 <sup>h</sup> 34'37"	23°31'	23°55'	17°32'	29°19'	24°43'	5°42'	0°19'	28°47'	17° 9	19°44'	21°15'	26° 8	3°53'	T 25
W26	2 13 29	1°34'27"	5 <sup>h</sup> 22'	24°27'	18°13'	29°59'	24°38'	5°48'	0°17'	28°48'	17° 9	19°36'	21°12'	26°15'	3°50'	W26
T 27	2 17 25	2°34'20"	17°13'	24°53'	18°55'	0 <sup>h</sup> 40'	24°34'	5°54'	0°15'	28°49'	17° 9	19°29'	21° 8	26°21'	3°47'	T 27
F 28	2 21 22	3°34'14"	29° 6	25°14'	19°39'	1°21'	24°29'	6° 1	0°13'	28°50'	17° 8	19°24'	21° 5	26°28'	3°44'	F 28
S 29	2 25 19	4°34'10"	11 <sup>h</sup> 5'	25°27'	20°23'	2° 1	24°25'	6° 7	0°11'	28°51'	17° 8	19°22'	21° 2	26°35'	3°41'	S 29
S 30	2 29 15	5°34'08"	23°11'	25°R33	21° 8	2°42'	24°20'	6°14'	0° 9	28°52'	17° 8	19°D22	20°59'	26°41'	3°38'	S 30
M31	2 33 12	6 <sup>h</sup> 34'08"	5 <sup>h</sup> 28'	25 <sup>h</sup> 30'	21 <sup>h</sup> 55'	3 <sup>h</sup> 23'	24 <sup>h</sup> 16'	6 <sup>h</sup> 20'	0°Y 8	28 <sup>h</sup> 54'	17 <sup>h</sup> 8	19 <sup>h</sup> 23'	20 <sup>h</sup> 56'	26 <sup>h</sup> 48'	3°36'	M31

Delta T = 24.29 sec

# ASTRODIENST EPHEMERIS for the year 1927

## geocentric

NOVEMBER 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 37 8	7♎34°09	18♏0	25°R19	22♎42	4♎3	24°R12	6♎27	0°R 6	28♎55	17°R 7	19♎24	20♎53	26♎55	3°R33	T 1
W 2	2 41 5	8°34'12	0♏51	24♎59	23°30	4°44	24♎9	6°33	0°Y 4	28°56	17°57	19°26	20°49	27°1	3♏30	W 2
T 3	2 45 1	9°34'17	14°4	24°29	24°19	5°25	24°5	6°40	0°2	28°57	17°7	19°R26	20°46	27°8	3°27	T 3
F 4	2 48 58	10°34'23	27°43	23°50	25°9	6°6	24°2	6°46	0°1	28°58	17°6	19°24	20°43	27°15	3°24	F 4
S 5	2 52 54	11°34'30	11♎50	23°1	26°0	6°47	23°59	6°53	29♎59	28°59	17°6	19°21	20°40	27°21	3°21	S 5
S 6	2 56 51	12°34'40	26°22	22°3	26°51	7°28	23°56	7°0	29°58	28°59	17°5	19°17	20°37	27°28	3°18	S 6
M 7	3 0 48	13°34'50	11♎17	20°58	27°43	8°9	23°53	7°6	29°56	29°0	17°5	19°12	20°33	27°35	3°16	M 7
T 8	3 4 44	14°35'02	26°26	19°45	28°36	8°50	23°51	7°13	29°54	29°1	17°5	19°6	20°30	27°42	3°13	T 8
W 9	3 8 41	15°35'16	11♎41	18°28	29°30	9°31	23°48	7°20	29°53	29°2	17°4	19°2	20°27	27°48	3°10	W 9
T 10	3 12 37	16°35'32	26°50	17°9	0♎24	10°12	23°46	7°27	29°52	29°3	17°4	18°59	20°24	27°55	3°7	T 10
F 11	3 16 34	17°35'49	11♎45	15°49	1°19	10°53	23°44	7°33	29°50	29°3	17°3	18°57	20°21	28°2	3°4	F 11
S 12	3 20 30	18°36'09	26°17	14°32	2°14	11°34	23°43	7°40	29°49	29°4	17°2	18°D57	20°18	28°8	3°2	S 12
S 13	3 24 27	19°36'30	10♎23	13°21	3°11	12°15	23°41	7°47	29°47	29°5	17°2	18°58	20°14	28°15	2°59	S 13
M14	3 28 24	20°36'53	24°1	12°16	4°7	12°57	23°40	7°54	29°46	29°6	17°1	19°0	20°11	28°22	2°56	M14
T 15	3 32 20	21°37'18	7♎12	11°21	5°5	13°38	23°39	8°1	29°45	29°6	17°1	19°1	20°8	28°28	2°53	T 15
W16	3 36 17	22°37'45	20°0	10°36	6°2	14°19	23°38	8°8	29°44	29°7	17°0	19°R 2	20°5	28°35	2°51	W16
T 17	3 40 13	23°38'14	2♎27	10°3	7°1	15°1	23°37	8°15	29°43	29°7	16°59	19°2	20°2	28°42	2°48	T 17
F 18	3 44 10	24°38'45	14°40	9°41	8°0	15°42	23°37	8°22	29°42	29°8	16°59	19°0	19°59	28°49	2°45	F 18
S 19	3 48 6	25°39'17	26°41	9°D31	8°59	16°24	23°37	8°29	29°40	29°8	16°58	18°58	19°55	28°55	2°43	S 19
S 20	3 52 3	26°39'51	8♎35	9°32	9°59	17°5	23°D37	8°36	29°39	29°9	16°57	18°54	19°52	29°2	2°40	S 20
M21	3 55 59	27°40'27	20°25	9°44	10°59	17°47	23°37	8°43	29°39	29°9	16°57	18°50	19°49	29°9	2°38	M21
T 22	3 59 56	28°41'04	2♎15	10°6	12°0	18°29	23°37	8°50	29°38	29°9	16°56	18°47	19°46	29°15	2°35	T 22
W23	4 3 52	29°41'43	14°7	10°37	13°1	19°10	23°38	8°57	29°37	29°10	16°55	18°44	19°43	29°22	2°33	W23
T 24	4 7 49	0♎42'24	26°3	11°15	14°3	19°52	23°38	9°4	29°36	29°10	16°54	18°41	19°39	29°29	2°30	T 24
F 25	4 11 46	1°43'06	8♎7	12°1	15°5	20°34	23°39	9°11	29°35	29°10	16°53	18°40	19°36	29°35	2°28	F 25
S 26	4 15 42	2°43'49	20°15	12°54	16°7	21°16	23°41	9°18	29°34	29°11	16°53	18°D40	19°33	29°42	2°25	S 26
S 27	4 19 39	3°44'34	2♎34	13°52	17°10	21°57	23°42	9°25	29°34	29°11	16°52	18°40	19°30	29°49	2°23	S 27
M28	4 23 35	4°45'20	15°5	14°54	18°13	22°39	23°44	9°32	29°33	29°11	16°51	18°41	19°27	29°55	2°21	M28
T 29	4 27 32	5°46'07	27°48	16°1	19°16	23°21	23°45	9°39	29°33	29°11	16°50	18°42	19°24	0♎2	2°18	T 29
W30	4 31 28	6♎46'55	10♎46	17♎12	20♎20	24♎3	23♎47	9♎47	29♎32	29♎11	16♎49	18♎44	19♎20	0♎2	2♎16	W30

Delta T = 24.30 sec

DECEMBER 1927

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 35 25	7♎47'43	24♎2	18♎26	21♎24	24♎45	23♎50	9♎54	29°R32	29♎11	16°R48	18♎44	19♎17	0♎16	2°R14	T 1
F 2	4 39 22	8°48'33	7♎37	19°42	22°28	25°27	23°52	10°1	29♎31	29°R11	16°47	18°R45	19°14	0°22	2♎12	F 2
S 3	4 43 18	9°49'24	21°37	21°1	23°33	26°9	23°55	10°8	29°31	29°11	16°46	18°45	19°11	0°29	2°10	S 3
S 4	4 47 15	10°50'15	5♎47	22°21	24°38	26°52	23°57	10°15	29°30	29°11	16°45	18°44	19°8	0°36	2°7	S 4
M 5	4 51 11	11°51'07	20°19	23°44	25°43	27°34	24°0	10°22	29°30	29°11	16°44	18°43	19°5	0°42	2°5	M 5
T 6	4 55 8	12°52'00	5♎5	25°7	26°49	28°16	24°4	10°29	29°30	29°11	16°43	18°42	19°1	0°49	2°3	T 6
W 7	4 59 4	13°52'54	19°58	26°33	27°55	28°58	24°7	10°36	29°30	29°11	16°42	18°42	18°58	0°56	2°1	W 7
T 8	5 3 1	14°53'49	4♎51	27°59	29°1	29°41	24°11	10°43	29°30	29°11	16°41	18°42	18°55	1°2	1°59	T 8
F 9	5 6 57	15°54'44	19°36	29°26	0♎7	0♎23	24°15	10°51	29°30	29°11	16°40	18°D41	18°52	1°9	1°58	F 9
S 10	5 10 54	16°55'41	4♎5	0♎53	1°14	1°5	24°19	10°58	29°D30	29°10	16°39	18°42	18°49	1°16	1°56	S 10
S 11	5 14 51	17°56'39	18°14	2°22	2°21	1°48	24°23	11°5	29°30	29°10	16°38	18°42	18°45	1°22	1°54	S 11
M12	5 18 47	18°57'37	1♎58	3°51	3°28	2°30	24°27	11°12	29°30	29°10	16°37	18°R42	18°42	1°29	1°52	M12
T 13	5 22 44	19°58'37	15°17	5°20	4°35	3°13	24°32	11°19	29°30	29°9	16°36	18°42	18°39	1°36	1°50	T 13
W14	5 26 40	20°59'38	28°12	6°50	5°42	3°55	24°36	11°26	29°30	29°9	16°35	18°41	18°36	1°42	1°49	W14
T 15	5 30 37	22°0'39	10♎45	8°21	6°50	4°38	24°41	11°33	29°30	29°9	16°33	18°41	18°33	1°49	1°47	T 15
F 16	5 34 33	23°1'42	23°0	9°51	7°58	5°21	24°46	11°40	29°31	29°8	16°32	18°D41	18°30	1°56	1°46	F 16
S 17	5 38 30	24°2'46	5♎2	11°22	9°6	6°3	24°52	11°47	29°31	29°8	16°31	18°41	18°26	2°3	1°44	S 17
S 18	5 42 26	25°3'50	16°56	12°53	10°14	6°46	24°57	11°54	29°31	29°7	16°30	18°42	18°23	2°9	1°43	S 18
M19	5 46 23	26°4'55	28°46	14°25	11°23	7°29	25°3	12°1	29°32	29°7	16°29	18°42	18°20	2°16	1°41	M19
T 20	5 50 20	27°6'02	10♎36	15°57	12°32	8°12	25°9	12°8	29°32	29°6	16°28	18°43	18°17	2°23	1°40	T 20
W21	5 54 16	28°7'09	22°30	17°29	13°41	8°55	25°15	12°15	29°33	29°6	16°27	18°44	18°14	2°29	1°39	W21
T 22	5 58 13	29°8'16	4♎32	19°1	14°50	9°38	25°21	12°22	29°33	29°5	16°25	18°45	18°11	2°36	1°37	T 22
F 23	6 2 9	0♎9'24	16°45	20°33	15°59	10°21	25°27	12°29	29°34	29°4	16°24	18°R45	18°7	2°43	1°36	F 23
S 24	6 6 6	1°10'33	29°9	22°6	17°8	11°4	25°34	12°36	29°35	29°4	16°23	18°45	18°4	2°49	1°35	S 24
S 25	6 10 2	2°11'43	11♎47	23°39	18°18	11°47	25°40	12°43	29°36	29°3	16°22	18°44	18°1	2°56	1°34	S 25
M26	6 13 59	3°12'52	24°38	25°12	19°27	12°30	25°47	12°49	29°36	29°2	16°20	18°43	17°58	3°3	1°33	M26
T 27	6 17 55	4°14'02	7♎43	26°45	20°37	13°13	25°54	12°56	29°37	29°1	16°19	18°40	17°55	3°9	1°32	T 27
W28	6 21 52	5°15'12	21°1	28°19	21°47	13°56	26°1	13°3	29°38	29°0	16°18	18°38	17°51	3°16	1°31	W28
T 29	6 25 49	6°16'21	4♎32	29°53	22°57	14°39	26°9	13°10	29°39	29°0	16°17	18°36	17°48	3°23	1°30	T 29
F 30	6 29 45	7°17'31	18°15	1♎27	24°7	15°23	26°16	13°16	29°40	28°59	16°15	18°34	17°45	3°29	1°29	F 30
S 31	6 33 42	8♎18'41	2♎9	3♎2	25♎17	16♎6	26♎24	13♎23	29♎41	28♎58	16♎14	18°D33	17♎42	3♎36	1♎29	S 31

Delta T = 24.31 sec