



Astrodienst Ephemeris Tables for the year 2036

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 2036
geocentric

JANUARY 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 40 58	10°37'37"	5°59'59"	26°R56	15°35'35"	15°21'21"	10°R44	18°R21	13°R10	21°R49	18°17'17"	26°R57	28°47'47"	18°31'31"	8°R12	T 1
W 2	6 44 55	11° 8'47"	17°49'49"	26°35'52"	16°48'48"	15°54'54"	10°B43	18°B18	13°B 7	21°D49	18°19'19"	26°B54	28°44'44"	18°22'22"	8°B10	W 2
T 3	6 48 51	12° 9'57"	29°42'42"	26°37'37"	18° 2'2"	16°28'28"	10°43'43"	18°14'14"	13° 4'4"	21°Y49	18°20'20"	26°D54	28°40'40"	18°29'29"	8° 7'7"	T 3
F 4	6 52 48	13°11'07"	11°44'44"	26°10'10"	19°15'15"	17° 2'2"	10°42'42"	18°11'11"	13° 2'2"	21°49'49"	18°22'22"	26°55'55"	28°37'37"	18°35'35"	8° 4'4"	F 4
S 5	6 56 45	14°12'17"	23°58'58"	25°31'31"	20°28'28"	17°35'35"	10°D42	18° 7'7"	12°59'59"	21°49'49"	18°23'23"	26°56'56"	28°34'34"	18°42'42"	8° 2'2"	S 5
S 6	7 0 41	15°13'27"	6°Y29	24°41'41"	21°41'41"	18° 9'9"	10°42'42"	18° 4'4"	12°57'57"	21°49'49"	18°25'25"	26°58'58"	28°31'31"	18°49'49"	7°59'59"	S 6
M 7	7 4 38	16°14'36"	19°20'20"	23°41'41"	22°54'54"	18°43'43"	10°43'43"	18° 0'0"	12°54'54"	21°49'49"	18°26'26"	26°R58	28°28'28"	18°55'55"	7°57'57"	M 7
T 8	7 8 34	17°15'44"	2B38	22°32'32"	24° 7'7"	19°18'18"	10°43'43"	17°56'56"	12°51'51"	21°49'49"	18°28'28"	26°57'57"	28°25'25"	19° 2'2"	7°54'54"	T 8
W 9	7 12 31	18°16'53"	16°24'24"	21°17'17"	25°20'20"	19°52'52"	10°44'44"	17°52'52"	12°49'49"	21°50'50"	18°30'30"	26°54'54"	28°21'21"	19° 9'9"	7°52'52"	W 9
T 10	7 16 27	19°18'01"	0B38	19°58'58"	26°33'33"	20°26'26"	10°45'45"	17°48'48"	12°46'46"	21°50'50"	18°31'31"	26°49'49"	28°18'18"	19°15'15"	7°49'49"	T 10
F 11	7 20 24	20°19'08"	15°20'20"	18°38'38"	27°46'46"	21° 1'1"	10°46'46"	17°44'44"	12°44'44"	21°50'50"	18°33'33"	26°44'44"	28°15'15"	19°22'22"	7°47'47"	F 11
S 12	7 24 20	21°20'15"	0B23	17°19'19"	28°58'58"	21°35'35"	10°47'47"	17°40'40"	12°41'41"	21°50'50"	18°34'34"	26°38'38"	28°12'12"	19°29'29"	7°45'45"	S 12
S 13	7 28 17	22°21'22"	15°39'39"	16° 3'3"	0X11	22°10'10"	10°49'49"	17°36'36"	12°39'39"	21°51'51"	18°36'36"	26°33'33"	28° 9'9"	19°35'35"	7°43'43"	S 13
M14	7 32 14	23°22'28"	0B57	14°53'53"	1°23'23"	22°45'45"	10°50'50"	17°32'32"	12°36'36"	21°51'51"	18°38'38"	26°30'30"	28° 5'5"	19°42'42"	7°41'41"	M14
T 15	7 36 10	24°23'34"	16° 6'6"	13°50'50"	2°36'36"	23°20'20"	10°52'52"	17°28'28"	12°34'34"	21°52'52"	18°39'39"	26°28'28"	28° 2'2"	19°49'49"	7°39'39"	T 15
W16	7 40 7	25°24'40"	0B58	12°56'56"	3°48'48"	23°55'55"	10°55'55"	17°23'23"	12°31'31"	21°52'52"	18°41'41"	26°D27	27°59'59"	19°55'55"	7°37'37"	W16
T 17	7 44 3	26°25'45"	15°25'25"	12°11'11"	5° 1'1"	24°30'30"	10°57'57"	17°19'19"	12°29'29"	21°53'53"	18°43'43"	26°28'28"	27°56'56"	20° 2'2"	7°35'35"	T 17
F 18	7 48 0	27°26'50"	29°26'26"	11°35'35"	6°13'13"	25° 5'5"	10°59'59"	17°15'15"	12°26'26"	21°53'53"	18°44'44"	26°30'30"	27°53'53"	20° 9'9"	7°33'33"	F 18
S 19	7 51 56	28°27'55"	13B 0	11° 9'9"	7°25'25"	25°40'40"	11° 2'2"	17°10'10"	12°24'24"	21°54'54"	18°46'46"	26°31'31"	27°50'50"	20°15'15"	7°31'31"	S 19
S 20	7 55 53	29°29'00"	26° 8'8"	10°53'53"	8°37'37"	26°16'16"	11° 5'5"	17° 6'6"	12°21'21"	21°54'54"	18°48'48"	26°R32	27°46'46"	20°22'22"	7°29'29"	S 20
M21	7 59 49	0B30'04"	8B54	10°D45	9°49'49"	26°51'51"	11° 8'8"	17° 1'1"	12°19'19"	21°55'55"	18°50'50"	26°32'32"	27°43'43"	20°29'29"	7°27'27"	M21
T 22	8 3 46	1°31'08"	21°21'21"	10°46'46"	11° 1'1"	27°26'26"	11°11'11"	16°56'56"	12°16'16"	21°56'56"	18°51'51"	26°30'30"	27°40'40"	20°35'35"	7°26'26"	T 22
W23	8 7 43	2°32'12"	3B34	10°54'54"	12°13'13"	28° 2'2"	11°15'15"	16°52'52"	12°14'14"	21°56'56"	18°53'53"	26°28'28"	27°37'37"	20°42'42"	7°24'24"	W23
T 24	8 11 39	3°33'15"	15°36'36"	11°10'10"	13°25'25"	28°38'38"	11°19'19"	16°47'47"	12°12'12"	21°57'57"	18°55'55"	26°24'24"	27°34'34"	20°49'49"	7°23'23"	T 24
F 25	8 15 36	4°34'18"	27°30'30"	11°33'33"	14°37'37"	29°13'13"	11°23'23"	16°42'42"	12° 9'9"	21°58'58"	18°56'56"	26°20'20"	27°31'31"	20°55'55"	7°21'21"	F 25
S 26	8 19 32	5°35'20"	9B21	12° 2'2"	15°48'48"	29°49'49"	11°27'27"	16°38'38"	12° 7'7"	21°59'59"	18°58'58"	26°17'17"	27°27'27"	21° 2'2"	7°20'20"	S 26
S 27	8 23 29	6°36'21"	21°10'10"	12°36'36"	17° 0'0"	0B25	11°31'31"	16°33'33"	12° 5'5"	21°59'59"	19° 0'0"	26°13'13"	27°24'24"	21° 9'9"	7°19'19"	S 27
M28	8 27 25	7°37'21"	2B59	13°15'15"	18°11'11"	1° 1'1"	11°35'35"	16°28'28"	12° 2'2"	22° 0'0"	19° 2'2"	26°11'11"	27°21'21"	21°15'15"	7°17'17"	M28
T 29	8 31 22	8°38'21"	14°51'51"	13°59'59"	19°22'22"	1°37'37"	11°40'40"	16°23'23"	12° 0'0"	22° 1'1"	19° 3'3"	26°10'10"	27°18'18"	21°22'22"	7°16'16"	T 29
W30	8 35 18	9°39'20"	26°47'47"	14°47'47"	20°34'34"	2°13'13"	11°45'45"	16°18'18"	11°58'58"	22° 2'2"	19° 5'5"	26°D 9	27°15'15"	21°29'29"	7°15'15"	W30
T 31	8 39 15	10°40'18"	8B49	15°39'39"	21°45'45"	2B49	11°B50	16°B13	11°B56	22°Y 3	19°B 7	26°B10	27°B11	21°B35	7°B14	T 31

Delta T = 70.76 sec

FEBRUARY 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 43 12	11°41'14"	21°X 0	16°B34	22°X56	3°B25	11°B55	16°R 9	11°R53	22°Y 4	19°B 9	26°B11	27°B 8	21°B42	7°R13	F 1
S 2	8 47 8	12°42'10"	3°Y22	17°33'	24° 6'	4° 2'	12° 0'	16°B 4	11°B51	22° 5'	19°11'	26°12'	27° 5'	21°49'	7°B12	S 2
S 3	8 51 5	13°43'04"	15°59'	18°34'	25°17'	4°38'	12° 6'	15°59'	11°49'	22° 6'	19°12'	26°13'	27° 2'	21°55'	7°12'	S 3
M 4	8 55 1	14°43'57"	28°53'	19°38'	26°28'	5°14'	12°12'	15°54'	11°47'	22° 7'	19°14'	26°14'	26°59'	22° 2'	7°11'	M 4
T 5	8 58 58	15°44'48"	12°B 6	20°44'	27°38'	5°51'	12°18'	15°49'	11°45'	22° 8'	19°16'	26°R14	26°56'	22° 9'	7°10'	T 5
W 6	9 2 54	16°45'38"	25°43'	21°52'	28°49'	6°27'	12°24'	15°44'	11°43'	22°10'	19°18'	26°14'	26°52'	22°15'	7°10'	W 6
T 7	9 6 51	17°46'27"	9°B43	23° 3'	29°59'	7° 4'	12°30'	15°39'	11°41'	22°11'	19°20'	26°14'	26°49'	22°22'	7° 9'	T 7
F 8	9 10 47	18°47'14"	24° 6'	24°15'	1°Y 9	7°40'	12°36'	15°34'	11°39'	22°12'	19°21'	26°13'	26°46'	22°29'	7° 9'	F 8
S 9	9 14 44	19°48'00"	8°B49	25°29'	2°19'	8°17'	12°43'	15°29'	11°37'	22°13'	19°23'	26°12'	26°43'	22°35'	7° 8'	S 9
S 10	9 18 41	20°48'44"	23°47'	26°44'	3°28'	8°53'	12°50'	15°25'	11°35'	22°14'	19°25'	26°12'	26°40'	22°42'	7° 8'	S 10
M11	9 22 37	21°49'27"	8°B52	28° 2'	4°38'	9°30'	12°56'	15°20'	11°34'	22°16'	19°27'	26°11'	26°37'	22°49'	7° 8'	M11
T 12	9 26 34	22°50'08"	23°55'	29°20'	5°48'	10° 7'	13° 3'	15°15'	11°32'	22°17'	19°29'	26°D11	26°33'	22°55'	7° 8'	T 12
W13	9 30 30	23°50'48"	8°B48	0°B40	6°57'	10°43'	13°11'	15°10'	11°30'	22°18'	19°30'	26°11'	26°30'	23° 2'	7° 7'	W13
T 14	9 34 27	24°51'26"	23°23'	2° 1'	8° 6'	11°20'	13°18'	15° 5'	11°28'	22°20'	19°32'	26°11'	26°27'	23° 9'	7°D 7	T 14
F 15	9 38 23	25°52'04"	7°B34	3°24'	9°15'	11°57'	13°25'	15° 0'	11°27'	22°21'	19°34'	26°R11	26°24'	23°15'	7° 8'	F 15
S 16	9 42 20	26°52'40"	21°18'	4°47'	10°24'	12°34'	13°33'	14°56'	11°25'	22°23'	19°36'	26°11'	26°21'	23°22'	7° 8'	S 16
S 17	9 46 16	27°53'15"	4°B36	6°12'	11°32'	13°11'	13°41'	14°51'	11°24'	22°24'	19°37'	26°11'	26°17'	23°29'	7° 8'	S 17
M18	9 50 13	28°53'49"	17°29'	7°38'	12°41'	13°48'	13°49'	14°46'	11°22'	22°26'	19°39'	26°11'	26°14'	23°35'	7° 8'	M18
T 19	9 54 9	29°54'21"	0°B 1	9° 5'	13°49'	14°25'	13°57'	14°42'	11°21'	22°27'	19°41'	26°D11	26°11'	23°42'	7° 8'	T 19
W20	9 58 6	0°B54'53"	12°14'	10°33'	14°57'	15° 1'	14° 5'	14°37'	11°19'	22°29'	19°43'	26°11'	26° 8'	23°49'	7° 9'	W20
T 21	10 2 3	1°55'23"	24°15'	12° 2'	16° 5'	15°38'	14°14'	14°32'	11°18'	22°30'	19°44'	26°11'	26° 5'	23°55'	7° 9'	T 21
F 22	10 5 59	2°55'52"	6°B 7	13°32'	17°13'	16°16'	14°22'	14°28'	11°16'	22°32'	19°46'	26°12'	26° 2'	24° 2'	7°10'	F 22
S 23	10 9 56	3°56'19"	17°56'	15° 3'	18°20'	16°53'	14°31'	14°23'	11°15'	22°33'	19°48'	26°13'	25°58'	24° 9'	7°11'	S 23
S 24	10 13 52	4°56'45"	29°44'	16°35'	19°28'	17°30'	14°39'	14°19'	11°14'	22°35'	19°50'	26°14'	25°55'	24°15'	7°11'	S 24
M25	10 17 49	5°57'09"	11°B35	18° 8'	20°35'	18° 7'	14°48'	14°15'	11°13'	22°37'	19°51'	26°15'	25°52'	24°22'	7°12'	M25
T 26	10 21 45	6°57'32"	23°33'	19°42'	21°42'	18°44'	14°57'	14°10'	11°12'	22°38'	19°53'	26°R15	25°49'	24°29'	7°13'	T 26
W27	10 25 42	7°57'53"	5°B38	21°17'	22°48'	19°21'	15° 7'	14° 6'	11°10'	22°40'	19°55'	26°15'	25°46'	24°35'	7°14'	W27
T 28	10 29 38	8°58'13"	17°54'	22°53'	23°55'	19°58'	15°16'	14° 2'	11° 9'	22°42'	19°57'	26°14'	25°43'	24°42'	7°15'	T 28
F 29	10 33 35	9°B58'31"	0°Y21	24°B30	25°Y 1	20°B36	15°B25	13°B58	11°B 8	22°Y44	19°B58	26°B12	25°B39	24°B49	7°B16	F 29

ASTRODIENST EPHEMERIS for the year 2036

geocentric

MARCH 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 37 32	10 ^h 58'47"	13 ^h 11'	26 ^h 08'	26 ^h 07'	21 ^h 13'	15 ^h 35'	13 ^h 53'	11 ^h 07'	22 ^h 45'	20 ^h 00'	26 ^h 10'	25 ^h 03'	24 ^h 35'	7 ^h 17'	S 1
S 2	10 41 28	11 ^h 59'00"	25°54'	27°47'	27°13'	21°50'	15°45'	13°04'	11°06'	22°47'	20° 2'	26°08'	25°33'	25° 2'	7°18'	S 2
M 3	10 45 25	12°59'12"	9 ^h 11'	29°27'	28°18'	22°27'	15°54'	13°45'	11° 6'	22°49'	20° 3'	26° 6'	25°30'	25° 9'	7°20'	M 3
T 4	10 49 21	13°59'22"	22°23'	1 ^h 08'	29°23'	23° 5'	16° 4'	13°42'	11° 5'	22°51'	20° 5'	26° 4'	25°27'	25°15'	7°21'	T 4
W 5	10 53 18	14°59'30"	6 ^h 11'	2°51'	0 ^h 28'	23°42'	16°14'	13°38'	11° 4'	22°53'	20° 7'	26° 3'	25°23'	25°22'	7°22'	W 5
T 6	10 57 14	15°59'36"	19°52'	4°34'	1°33'	24°19'	16°24'	13°34'	11° 3'	22°55'	20° 8'	26°03'	25°20'	25°29'	7°24'	T 6
F 7	11 1 11	16°59'40"	4 ^h 00'	6°18'	2°37'	24°57'	16°35'	13°30'	11° 3'	22°57'	20°10'	26° 3'	25°17'	25°35'	7°25'	F 7
S 8	11 5 7	17°59'42"	18°22'	8° 4'	3°41'	25°34'	16°45'	13°27'	11° 2'	22°59'	20°12'	26° 5'	25°14'	25°42'	7°27'	S 8
S 9	11 9 4	18°59'41"	2 ^h 05'	9°50'	4°45'	26°11'	16°56'	13°23'	11° 2'	23° 0'	20°13'	26° 6'	25°11'	25°49'	7°29'	S 9
M10	11 13 1	19°59'38"	17°34'	11°38'	5°48'	26°49'	17° 6'	13°20'	11° 1'	23° 2'	20°15'	26° 7'	25° 8'	25°55'	7°31'	M10
T 11	11 16 57	20°59'33"	2 ^h 15'	13°27'	6°51'	27°26'	17°17'	13°16'	11° 1'	23° 4'	20°16'	26°07'	25° 4'	26° 2'	7°32'	T 11
W12	11 20 54	21°59'26"	16°51'	15°17'	7°54'	28° 4'	17°28'	13°13'	11° 0'	23° 6'	20°18'	26° 6'	25° 1'	26° 9'	7°34'	W12
T 13	11 24 50	22°59'17"	1 ^h 15'	17° 8'	8°57'	28°41'	17°38'	13°10'	11° 0'	23° 8'	20°20'	26° 3'	24°58'	26°15'	7°36'	T 13
F 14	11 28 47	23°59'06"	15°23'	19° 0'	9°59'	29°18'	17°49'	13° 7'	11° 0'	23°10'	20°21'	26° 0'	24°55'	26°22'	7°38'	F 14
S 15	11 32 43	24°58'53"	29° 8'	20°54'	11° 0'	29°56'	18° 0'	13° 4'	11° 0'	23°12'	20°23'	25°55'	24°52'	26°29'	7°40'	S 15
S 16	11 36 40	25°58'39"	12 ^h 30'	22°48'	12° 1'	0 ^h 33'	18°12'	13° 1'	10°59'	23°14'	20°24'	25°50'	24°48'	26°35'	7°42'	S 16
M17	11 40 36	26°58'23"	25°28'	24°44'	13° 2'	1°11'	18°23'	12°58'	10°59'	23°17'	20°26'	25°46'	24°45'	26°42'	7°45'	M17
T 18	11 44 33	27°58'05"	8 ^h 44'	26°41'	14° 3'	1°48'	18°34'	12°55'	10°59'	23°19'	20°27'	25°43'	24°42'	26°49'	7°47'	T 18
W19	11 48 30	28°57'45"	20°22'	28°38'	15° 3'	2°26'	18°46'	12°53'	10°59'	23°21'	20°29'	25°41'	24°39'	26°55'	7°49'	W19
T 20	11 52 26	29°57'24"	2 ^h 24'	0 ^h 37'	16° 3'	3° 3'	18°57'	12°50'	10°59'	23°23'	20°30'	25°41'	24°36'	27° 2'	7°52'	T 20
F 21	11 56 23	0 ^h 57'01"	14°17'	2°37'	17° 2'	3°41'	19° 9'	12°48'	10°59'	23°25'	20°32'	25°42'	24°33'	27° 9'	7°54'	F 21
S 22	12 0 19	1°56'36"	26° 6'	4°37'	18° 1'	4°18'	19°21'	12°45'	10°59'	23°27'	20°33'	25°43'	24°29'	27°15'	7°57'	S 22
S 23	12 4 16	2°56'09"	7 ^h 55'	6°38'	18°59'	4°56'	19°32'	12°43'	11° 0'	23°29'	20°34'	25°45'	24°26'	27°22'	7°59'	S 23
M24	12 8 12	3°55'41"	19°49'	8°39'	19°57'	5°33'	19°44'	12°41'	11° 0'	23°31'	20°36'	25°46'	24°23'	27°29'	8° 2'	M24
T 25	12 12 9	4°55'11"	1 ^h 52'	10°40'	20°54'	6°11'	19°56'	12°39'	11° 0'	23°34'	20°37'	25°46'	24°20'	27°35'	8° 5'	T 25
W26	12 16 5	5°54'38"	14° 8'	12°42'	21°51'	6°48'	20° 8'	12°37'	11° 1'	23°36'	20°39'	25°45'	24°17'	27°42'	8° 7'	W26
T 27	12 20 2	6°54'04"	26°38'	14°43'	22°47'	7°26'	20°20'	12°35'	11° 1'	23°38'	20°40'	25°41'	24°14'	27°49'	8°10'	T 27
F 28	12 23 58	7°53'28"	9 ^h 24'	16°44'	23°43'	8° 3'	20°32'	12°33'	11° 2'	23°40'	20°41'	25°35'	24°10'	27°55'	8°13'	F 28
S 29	12 27 55	8°52'50"	22°26'	18°44'	24°38'	8°41'	20°45'	12°31'	11° 2'	23°42'	20°43'	25°28'	24° 7'	28° 2'	8°16'	S 29
S 30	12 31 52	9°52'09"	5 ^h 43'	20°43'	25°33'	9°19'	20°57'	12°30'	11° 3'	23°45'	20°44'	25°21'	24° 4'	28° 9'	8°19'	S 30
M31	12 35 48	10 ^h 51'27"	19 ^h 13'	22 ^h 41'	26 ^h 27'	9 ^h 56'	21 ^h 8'	12 ^h 28'	11 ^h 03'	23 ^h 47'	20 ^h 45'	25 ^h 02'	24 ^h 01'	28 ^h 15'	8 ^h 22'	M31

Delta T = 70.80 sec

APRIL 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 39 45	11 ^h 50'42"	2 ^h 15'	24 ^h 37'	27 ^h 20'	10 ^h 34'	21 ^h 22'	12°R27	11 ^h 04'	23 ^h 49'	20 ^h 46'	25°R 6	23 ^h 05'	28 ^h 22'	8 ^h 25'	T 1
W 2	12 43 41	12°49'55"	16°44'	26°30'	28°13'	11°11'	21°34'	12°02'	11° 5'	23°51'	20°48'	25°02'	23°54'	28°29'	8°28'	W 2
T 3	12 47 38	13°49'06"	0 ^h 42'	28°21'	29° 5'	11°49'	21°47'	12°25'	11° 5'	23°53'	20°49'	24°59'	23°51'	28°35'	8°31'	T 3
F 4	12 51 34	14°48'15"	14°46'	0 ^h 8'	29°56'	12°27'	22° 0'	12°24'	11° 6'	23°56'	20°50'	24°58'	23°48'	28°42'	8°35'	F 4
S 5	12 55 31	15°47'21"	28°55'	1°52'	0 ^h 47'	13° 4'	22°12'	12°23'	11° 7'	23°58'	20°51'	24°59'	23°45'	28°49'	8°38'	S 5
S 6	12 59 27	16°46'25"	13 ^h 08'	3°33'	1°36'	13°42'	22°25'	12°22'	11° 8'	24° 0'	20°52'	25° 0'	23°42'	28°55'	8°41'	S 6
M 7	13 3 24	17°45'26"	27°22'	5° 9'	2°25'	14°19'	22°38'	12°21'	11° 9'	24° 2'	20°53'	25°00'	23°39'	29° 2'	8°45'	M 7
T 8	13 7 21	18°44'25"	11 ^h 36'	6°41'	3°13'	14°57'	22°51'	12°21'	11°10'	24° 5'	20°54'	24°59'	23°35'	29° 9'	8°48'	T 8
W 9	13 11 17	19°43'22"	25°45'	8° 8'	4° 1'	15°34'	23° 4'	12°20'	11°11'	24° 7'	20°56'	24°55'	23°32'	29°15'	8°52'	W 9
T 10	13 15 14	20°42'17"	9 ^h 47'	9°30'	4°47'	16°12'	23°17'	12°20'	11°13'	24° 9'	20°57'	24°49'	23°29'	29°22'	8°55'	T 10
F 11	13 19 10	21°41'10"	23°37'	10°47'	5°33'	16°50'	23°30'	12°20'	11°14'	24°11'	20°58'	24°41'	23°26'	29°29'	8°59'	F 11
S 12	13 23 7	22°40'00"	7 ^h 11'	11°58'	6°17'	17°27'	23°43'	12°19'	11°15'	24°14'	20°59'	24°32'	23°23'	29°35'	9° 2'	S 12
S 13	13 27 3	23°38'49"	20°25'	13° 4'	7° 1'	18° 5'	23°56'	12°D19	11°16'	24°16'	21° 0'	24°21'	23°19'	29°42'	9° 6'	S 13
M14	13 31 0	24°37'36"	3 ^h 20'	14° 5'	7°43'	18°42'	24° 9'	12°19'	11°18'	24°18'	21° 1'	24°12'	23°16'	29°49'	9°10'	M14
T 15	13 34 56	25°36'21"	15°55'	14°59'	8°25'	19°20'	24°23'	12°20'	11°19'	24°21'	21° 2'	24° 3'	23°13'	29°55'	9°14'	T 15
W16	13 38 53	26°35'05"	28°13'	15°47'	9° 5'	19°57'	24°36'	12°20'	11°21'	24°23'	21° 2'	23°57'	23°10'	0 ^h 08'	9°17'	W16
T 17	13 42 50	27°33'46"	10 ^h 31'	16°30'	9°44'	20°35'	24°49'	12°20'	11°22'	24°25'	21° 3'	23°54'	23° 7'	0° 8'	9°21'	T 17
F 18	13 46 46	28°32'26"	22°10'	17° 6'	10°22'	21°13'	25° 3'	12°21'	11°24'	24°27'	21° 4'	23°52'	23° 4'	0°15'	9°25'	F 18
S 19	13 50 43	29°31'05"	3 ^h 59'	17°37'	10°59'	21°50'	25°16'	12°21'	11°25'	24°30'	21° 5'	23°D52	23° 0'	0°22'	9°29'	S 19
S 20	13 54 39	0 ^h 29'41"	15°49'	18° 1'	11°34'	22°28'	25°29'	12°22'	11°27'	24°32'	21° 6'	23°52'	22°57'	0°28'	9°33'	S 20
M21	13 58 36	1°28'16"	27°45'	18°19'	12° 9'	23° 5'	25°43'	12°23'	11°29'	24°34'	21° 7'	23°R52	22°54'	0°35'	9°37'	M21
T 22	14 2 32	2°26'50"	9 ^h 52'	18°31'	12°41'	23°43'	25°56'	12°24'	11°30'	24°36'	21° 8'	23°51'	22°51'	0°42'	9°41'	T 22
W23	14 6 29	3°25'21"	22°14'	18°37'	13°13'	24°20'	26°10'	12°25'	11°32'	24°39'	21° 8'	23°48'	22°48'	0°48'	9°45'	W23
T 24	14 10 25	4°23'51"	4 ^h 55'	18°R37	13°43'	24°58'	26°24'	12°26'	11°34'	24°41'	21° 9'	23°42'	22°45'	0°55'	9°49'	T 24
F 25	14 14 22	5°22'19"	17°57'	18°32'	14°11'	25°36'	26°37'	12°27'	11°36'	24°43'	21°10'	23°33'	22°41'	1° 2'	9°53'	F 25
S 26	14 18 18	6°20'45"	1 ^h 19'	18°21'	14°38'	26°13'	26°51'	12°29'	11°38'	24°45'	21°10'	23°23'	22°38'	1° 8'	9°57'	S 26
S 27	14 22 15	7°19'10"	15° 0'	18° 6'	15° 3'	26°51'	27° 5'	12°30'	11°40'	24°48'	21°11'	23°11'	22°35'	1°15'	10° 2'	S 27
M28	14 26 12	8°17'33"	28°57'	17°45'	15°26'	27°28'	27°18'	12°32'	11°42'	24°50'	21°12'	23° 0'	22°32'	1°22'	10° 6'	M28
T 29	14 30 8	9°15'53"	13 ^h 11'	17°21'	15°48'	28° 6'	27°32'	12°33'	11°44'	24°52'	21°12'	22°49'	22°29'	1°28'	10°10'	T 29
W30	14 34 5	10 ^h 14'12"	27 ^h 17'	16 ^h 52'	16 ^h 11'	28 ^h 44'	27 ^h 46'	12 ^h 35'	11 ^h 46'	24 ^h 54'	21 ^h 13'	22 ^h 42'	22 ^h 02'	1 ^h 35'	10 ^h 14'	W30

Delta T = 70.82 sec

ASTRODIENST EPHEMERIS for the year 2036
geocentric

MAY 2036

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 38 1	11♈12'29	11♈32	16°R21	16♊25	29♊21	28♈0	12♈37	11♈48	24♈56	21♈13	22°R36	22♈22	1♈42	10♊19	T 1
F 2	14 41 58	12°10'44	25°46	15♈47	16°41	29°59	28°14	12°39	11°50	24°59	21°14	22°R34	22°19	1°48	10°23	F 2
S 3	14 45 54	13° 8'57	9♈55	15°11	16°55	0♈36	28°28	12°41	11°52	25° 1	21°14	22°D33	22°16	1°55	10°28	S 3
S 4	14 49 51	14° 7'08	23°59	14°33	17° 6	1°14	28°42	12°43	11°55	25° 3	21°15	22°R33	22°13	2° 2	10°32	S 4
M 5	14 53 48	15° 5'16	7♈58	13°55	17°16	1°51	28°55	12°46	11°57	25° 5	21°15	22°33	22°10	2° 8	10°36	M 5
T 6	14 57 44	16° 3'23	21°50	13°18	17°23	2°29	29° 9	12°48	11°59	25° 7	21°16	22°30	22° 6	2°15	10°41	T 6
W 7	15 1 41	17° 1'28	5♈34	12°40	17°28	3° 7	29°23	12°50	12° 2	25° 9	21°16	22°25	22° 3	2°22	10°45	W 7
T 8	15 5 37	17°59'30	19°11	12° 5	17°31	3°44	29°37	12°53	12° 4	25°12	21°17	22°18	22° 0	2°28	10°50	T 8
F 9	15 9 34	18°57'32	2♈36	11°31	17°R32	4°22	29°51	12°56	12° 7	25°14	21°17	22° 7	21°57	2°35	10°54	F 9
S 10	15 13 30	19°55'31	15°49	11° 0	17°30	4°59	0♈5	12°58	12° 9	25°16	21°17	21°55	21°54	2°42	10°59	S 10
S 11	15 17 27	20°53'29	28°47	10°31	17°25	5°37	0°19	13° 1	12°12	25°18	21°18	21°42	21°51	2°48	11° 4	S 11
M12	15 21 23	21°51'25	11♈30	10° 6	17°18	6°14	0°33	13° 4	12°14	25°20	21°18	21°29	21°47	2°55	11° 8	M12
T 13	15 25 20	22°49'20	23°58	9°45	17° 9	6°52	0°47	13° 7	12°17	25°22	21°18	21°19	21°44	3° 1	11°13	T 13
W14	15 29 16	23°47'14	6♈11	9°28	16°57	7°29	1° 1	13°11	12°20	25°24	21°18	21°10	21°41	3° 8	11°17	W14
T 15	15 33 13	24°45'06	18°12	9°15	16°43	8° 7	1°16	13°14	12°22	25°26	21°18	21° 4	21°38	3°15	11°22	T 15
F 16	15 37 10	25°42'57	0♈4	9° 7	16°27	8°44	1°30	13°17	12°25	25°28	21°19	21° 1	21°35	3°21	11°27	F 16
S 17	15 41 6	26°40'46	11°53	9°D 3	16° 8	9°22	1°44	13°21	12°28	25°30	21°19	20°59	21°31	3°28	11°32	S 17
S 18	15 45 3	27°38'35	23°42	9° 4	15°47	9°59	1°58	13°24	12°30	25°32	21°19	20°59	21°28	3°35	11°36	S 18
M19	15 48 59	28°36'22	5♈38	9° 9	15°23	10°37	2°12	13°28	12°33	25°34	21°19	20°59	21°25	3°41	11°41	M19
T 20	15 52 56	29°34'08	17°46	9°19	14°58	11°14	2°26	13°32	12°36	25°36	21°19	20°58	21°22	3°48	11°46	T 20
W21	15 56 52	0♈31'53	0♈11	9°33	14°30	11°52	2°40	13°35	12°39	25°38	21°19	20°55	21°19	3°55	11°50	W21
T 22	16 0 49	1°29'37	12°57	9°52	14° 1	12°29	2°54	13°39	12°42	25°40	21°R19	20°50	21°16	4° 1	11°55	T 22
F 23	16 4 45	2°27'20	26° 7	10°15	13°30	13° 7	3° 8	13°43	12°45	25°42	21°19	20°42	21°12	4° 8	12° 0	F 23
S 24	16 8 42	3°25'02	9♈42	10°43	12°57	13°45	3°22	13°47	12°48	25°44	21°19	20°32	21° 9	4°15	12° 5	S 24
S 25	16 12 39	4°22'42	23°41	11°14	12°23	14°22	3°36	13°51	12°51	25°46	21°19	20°21	21° 6	4°21	12°10	S 25
M26	16 16 35	5°20'22	7♈59	11°50	11°48	15° 0	3°51	13°56	12°54	25°48	21°19	20° 9	21° 3	4°28	12°14	M26
T 27	16 20 32	6°18'00	22°31	12°29	11°12	15°37	4° 5	14° 0	12°57	25°49	21°19	20° 0	21° 0	4°35	12°19	T 27
W28	16 24 28	7°15'37	7♈10	13°13	10°35	16°15	4°19	14° 4	13° 0	25°51	21°18	19°52	20°57	4°41	12°24	W28
T 29	16 28 25	8°13'13	21°48	14° 0	9°58	16°52	4°33	14° 9	13° 3	25°53	21°18	19°47	20°53	4°48	12°29	T 29
F 30	16 32 21	9°10'47	6♈20	14°50	9°20	17°30	4°47	14°13	13° 6	25°55	21°18	19°44	20°50	4°55	12°34	F 30
S 31	16 36 18	10♈8'20	20♈41	15♈45	8♈43	18♈7	5♈1	14♈18	13♈9	25♈56	21♈18	19°D44	20♈47	5♈1	12♈38	S 31

Delta T = 70.85 sec

JUNE 2036

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 40 15	11♈5'51	4♈49	16♈42	8°R 5	18♈45	5♈15	14♈23	13♈13	25♈58	21°R18	19°R44	20♈44	5♈8	12♈43	S 1
M 2	16 44 11	12° 3'22	18°44	17°43	7♈28	19°22	5°29	14°28	13°16	26° 0	21°R17	19♈44	20°41	5°15	12°48	M 2
T 3	16 48 8	13° 0'50	2♈25	18°47	6°52	20° 0	5°43	14°32	13°19	26° 2	21°17	19°42	20°37	5°21	12°53	T 3
W 4	16 52 4	13°58'18	15°53	19°55	6°17	20°37	5°57	14°37	13°22	26° 3	21°17	19°39	20°34	5°28	12°58	W 4
T 5	16 56 1	14°55'44	29° 9	21° 5	5°42	21°15	6°11	14°42	13°26	26° 5	21°16	19°32	20°31	5°34	13° 3	T 5
F 6	16 59 57	15°53'09	12♈12	22°19	5° 9	21°52	6°25	14°48	13°29	26° 7	21°16	19°24	20°28	5°41	13° 7	F 6
S 7	17 3 54	16°50'33	25° 4	23°35	4°38	22°30	6°39	14°53	13°32	26° 8	21°16	19°14	20°25	5°48	13°12	S 7
S 8	17 7 50	17°47'56	7♈43	24°55	4° 8	23° 7	6°53	14°58	13°36	26°10	21°15	19° 3	20°22	5°54	13°17	S 8
M 9	17 11 47	18°45'19	20°10	26°17	3°40	23°45	7° 7	15° 3	13°39	26°11	21°15	18°52	20°18	6° 1	13°22	M 9
T 10	17 15 44	19°42'40	2♈25	27°42	3°15	24°22	7°21	15° 9	13°42	26°13	21°14	18°43	20°15	6° 8	13°27	T 10
W11	17 19 40	20°40'01	14°30	29°11	2°51	25° 0	7°35	15°14	13°46	26°14	21°14	18°36	20°12	6°14	13°32	W11
T 12	17 23 37	21°37'21	26°26	0♈42	2°29	25°37	7°49	15°20	13°49	26°16	21°13	18°31	20° 9	6°21	13°36	T 12
F 13	17 27 33	22°34'41	8♈15	2°16	2°10	26°15	8° 2	15°25	13°53	26°17	21°13	18°29	20° 6	6°28	13°41	F 13
S 14	17 31 30	23°32'00	20° 3	3°52	1°53	26°52	8°16	15°31	13°56	26°19	21°12	18°D28	20° 3	6°34	13°46	S 14
S 15	17 35 26	24°29'18	1♈52	5°32	1°38	27°30	8°30	15°37	13°59	26°20	21°12	18°29	19°59	6°41	13°51	S 15
M16	17 39 23	25°26'36	13°47	7°14	1°26	28° 7	8°44	15°42	14° 3	26°21	21°11	18°30	19°56	6°48	13°56	M16
T 17	17 43 19	26°23'54	25°54	9° 0	1°16	28°45	8°58	15°48	14° 6	26°23	21°10	18°R30	19°53	6°54	14° 0	T 17
W18	17 47 16	27°21'11	8♈18	10°47	1° 9	29°23	9°11	15°54	14°10	26°24	21°10	18°30	19°50	7° 1	14° 5	W18
T 19	17 51 13	28°18'29	21° 3	12°38	1° 4	0♈0	9°25	16° 0	14°13	26°25	21° 9	18°27	19°47	7° 8	14°10	T 19
F 20	17 55 9	29°15'46	4♈14	14°31	1° 2	0°38	9°39	16° 6	14°17	26°27	21° 8	18°23	19°43	7°14	14°15	F 20
S 21	17 59 6	0♈13'02	17°52	16°27	1°D 1	1°15	9°52	16°12	14°21	26°28	21° 8	18°17	19°40	7°21	14°19	S 21
S 22	18 3 2	1°10'19	1♈58	18°24	1° 3	1°53	10° 6	16°18	14°24	26°29	21° 7	18°10	19°37	7°28	14°24	S 22
M23	18 6 59	2° 7'35	16°27	20°25	1° 8	2°30	10°19	16°24	14°28	26°30	21° 6	18° 3	19°34	7°34	14°29	M23
T 24	18 10 55	3° 4'51	1♈15	22°27	1°14	3° 8	10°33	16°31	14°31	26°31	21° 5	17°56	19°31	7°41	14°34	T 24
W25	18 14 52	4° 2'07	16°12	24°31	1°23	3°45	10°46	16°37	14°35	26°33	21° 4	17°51	19°28	7°47	14°38	W25
T 26	18 18 48	4°59'22	1♈12	26°37	1°34	4°23	11° 0	16°43	14°38	26°34	21° 4	17°48	19°24	7°54	14°43	T 26
F 27	18 22 45	5°56'37	16° 5	28°45	1°47	5° 0	11°13	16°50	14°42	26°35	21° 3	17°D47	19°21	8° 1	14°48	F 27
S 28	18 26 42	6°53'51	0♈44	0♈54	2° 2	5°38	11°26	16°56	14°46	26°36	21° 2	17°48	19°18	8° 7	14°52	S 28
S 29	18 30 38	7°51'05	15° 5	3° 3	2°18	6°16	11°40	17° 3	14°49	26°37	21° 1	17°49	19°15	8°14	14°57	S 29
M30	18 34 35	8♈48'18	29♈7	5♈14	2♈37	6♈53	11♈53	17♈9	14♈53	26♈38	21♈0	17♈50	19♈12	8♈21	15♈1	M30

Delta T = 70.87 sec

ASTRODIENST EPHEMERIS for the year 2036

geocentric

JULY 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 38 31	9°45'31"	12°48'	7°24'	2°11'57"	7°12'31"	12°11'6"	17°12'16"	14°25'56"	26°47'39"	20°R59	17°R51	19°12'8"	8°27'27"	15°11'6"	T 1
W 2	18 42 28	10°42'44"	26°10'	9°35'	3°20'	8°8'	12°19'	17°23'	15°0'	26°40'	20°R58	17°12'50"	19°5'	8°34'	15°10'	W 2
T 3	18 46 24	11°39'56"	9°11'14"	11°46'	3°43'	8°46'	12°33'	17°29'	15°4'	26°41'	20°57'	17°47'	19°2'	8°41'	15°15'	T 3
F 4	18 50 21	12°37'07"	22°2'	13°56'	4°9'	9°24'	12°46'	17°36'	15°7'	26°41'	20°56'	17°43'	18°59'	8°47'	15°19'	F 4
S 5	18 54 17	13°34'19"	4°17'37"	16°6'	4°36'	10°1'	12°59'	17°43'	15°11'	26°42'	20°55'	17°38'	18°56'	8°54'	15°24'	S 5
S 6	18 58 14	14°31'30"	16°59'	18°14'	5°5'	10°39'	13°12'	17°50'	15°15'	26°43'	20°54'	17°32'	18°53'	9°1'	15°28'	S 6
M 7	19 2 11	15°28'42"	29°11'	20°22'	5°35'	11°16'	13°25'	17°56'	15°18'	26°44'	20°53'	17°26'	18°49'	9°7'	15°33'	M 7
T 8	19 6 7	16°25'53"	11°31'14"	22°28'	6°6'	11°54'	13°37'	18°3'	15°22'	26°45'	20°52'	17°22'	18°46'	9°14'	15°37'	T 8
W 9	19 10 4	17°23'04"	23°10'	24°33'	6°39'	12°32'	13°50'	18°10'	15°26'	26°45'	20°51'	17°18'	18°43'	9°21'	15°41'	W 9
T 10	19 14 0	18°20'16"	5°11'	26°37'	7°13'	13°9'	14°3'	18°17'	15°29'	26°46'	20°50'	17°16'	18°40'	9°27'	15°46'	T 10
F 11	19 17 57	19°17'27"	16°49'	28°38'	7°49'	13°47'	14°16'	18°24'	15°33'	26°47'	20°49'	17°D15	18°37'	9°34'	15°50'	F 11
S 12	19 21 53	20°14'39"	28°36'	0°12'39"	8°25'	14°24'	14°28'	18°31'	15°36'	26°47'	20°48'	17°16'	18°34'	9°40'	15°54'	S 12
S 13	19 25 50	21°11'52"	10°11'26"	2°37'	9°3'	15°2'	14°41'	18°38'	15°40'	26°48'	20°47'	17°17'	18°30'	9°47'	15°59'	S 13
M14	19 29 46	22°9'04"	22°23'	4°34'	9°42'	15°40'	14°53'	18°46'	15°44'	26°48'	20°46'	17°19'	18°27'	9°54'	16°3'	M14
T 15	19 33 43	23°6'18"	4°17'31"	6°28'	10°22'	16°17'	15°6'	18°53'	15°47'	26°49'	20°45'	17°20'	18°24'	10°0'	16°7'	T 15
W16	19 37 40	24°3'32"	16°55'	8°21'	11°3'	16°55'	15°18'	19°0'	15°51'	26°49'	20°43'	17°21'	18°21'	10°7'	16°11'	W16
T 17	19 41 36	25°0'46"	29°38'	10°12'	11°45'	17°33'	15°31'	19°7'	15°54'	26°50'	20°42'	17°R21	18°18'	10°14'	16°15'	T 17
F 18	19 45 33	25°58'01"	12°18'	12°2'	12°28'	18°10'	15°43'	19°14'	15°58'	26°50'	20°41'	17°21'	18°14'	10°20'	16°19'	F 18
S 19	19 49 29	26°55'17"	26°18'	13°49'	13°12'	18°48'	15°55'	19°22'	16°2'	26°50'	20°40'	17°19'	18°11'	10°27'	16°23'	S 19
S 20	19 53 26	27°52'34"	10°11'19"	15°35'	13°57'	19°26'	16°7'	19°29'	16°5'	26°51'	20°39'	17°17'	18°8'	10°34'	16°27'	S 20
M21	19 57 22	28°49'51"	24°46'	17°18'	14°43'	20°4'	16°19'	19°36'	16°9'	26°51'	20°37'	17°14'	18°5'	10°40'	16°31'	M21
T 22	20 1 19	29°47'09"	9°23'35"	19°0'	15°29'	20°41'	16°31'	19°44'	16°12'	26°51'	20°36'	17°12'	18°2'	10°47'	16°35'	T 22
W23	20 5 15	0°14'44'28"	24°39'	20°41'	16°17'	21°19'	16°43'	19°51'	16°16'	26°52'	20°35'	17°11'	17°59'	10°54'	16°39'	W23
T 24	20 9 12	1°41'48"	9°12'50"	22°19'	17°5'	21°57'	16°55'	19°58'	16°20'	26°52'	20°34'	17°D10	17°55'	11°0'	16°43'	T 24
F 25	20 13 9	2°39'08"	24°57'	23°55'	17°54'	22°34'	17°7'	20°6'	16°23'	26°52'	20°32'	17°10'	17°52'	11°7'	16°47'	F 25
S 26	20 17 5	3°36'28"	9°17'52"	25°30'	18°43'	23°12'	17°18'	20°13'	16°27'	26°52'	20°31'	17°10'	17°49'	11°14'	16°50'	S 26
S 27	20 21 2	4°33'49"	24°29'	27°3'	19°34'	23°50'	17°30'	20°21'	16°30'	26°52'	20°30'	17°11'	17°46'	11°20'	16°54'	S 27
M28	20 24 58	5°31'10"	8°12'43"	28°34'	20°25'	24°28'	17°42'	20°28'	16°34'	26°52'	20°29'	17°12'	17°43'	11°27'	16°58'	M28
T 29	20 28 55	6°28'32"	22°32'	0°17'3"	21°16'	25°6'	17°53'	20°36'	16°37'	26°52'	20°27'	17°13'	17°40'	11°33'	17°1'	T 29
W30	20 32 51	7°25'54"	5°11'56"	1°30'	22°8'	25°43'	18°4'	20°43'	16°40'	26°R52	20°26'	17°R13	17°36'	11°40'	17°5'	W30
T 31	20 36 48	8°12'31'16"	18°11'58"	2°17'55"	23°11'	26°12'21"	18°11'16"	20°12'51"	16°24'44"	26°V52	20°R25	17°12'13"	17°12'33"	11°44'47"	17°11'8"	T 31

Delta T = 70.89 sec

AUGUST 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 40 44	9°12'04'40"	1°17'39"	4°17'19"	23°11'54"	26°12'59"	18°11'27"	20°12'58"	16°24'47"	26°R52	20°R23	17°R13	17°12'30"	11°55'53"	17°11'12"	F 1
S 2	20 44 41	10°18'03"	14°4'	5°40'	24°48'	27°37'	18°38'	21°6'	16°51'	26°V52	20°R22	17°12'12"	17°27'	12°0'	17°15'	S 2
S 3	20 48 38	11°15'28"	26°15'	7°0'	25°43'	28°15'	18°49'	21°14'	16°54'	26°52'	20°21'	17°11'	17°24'	12°7'	17°19'	S 3
M 4	20 52 34	12°12'53"	8°17'31"	8°17'	26°38'	28°53'	19°0'	21°21'	16°58'	26°52'	20°19'	17°10'	17°20'	12°13'	17°22'	M 4
T 5	20 56 31	13°10'19"	20°11'	9°32'	27°33'	29°30'	19°11'	21°29'	17°1'	26°52'	20°18'	17°10'	17°17'	12°20'	17°25'	T 5
W 6	21 0 27	14°7'46"	2°11'	10°45'	28°29'	0°17'8"	19°21'	21°36'	17°4'	26°52'	20°17'	17°9'	17°14'	12°27'	17°29'	W 6
T 7	21 4 24	15°5'14"	13°49'	11°56'	29°25'	0°46'	19°32'	21°44'	17°8'	26°51'	20°15'	17°D 9	17°11'	12°33'	17°32'	T 7
F 8	21 8 20	16°2'43"	25°37'	13°5'	0°22'22"	1°24'	19°42'	21°52'	17°11'	26°51'	20°14'	17°9'	17°8'	12°40'	17°35'	F 8
S 9	21 12 17	17°0'13"	7°11'28"	14°11'	1°20'	2°2'	19°53'	21°59'	17°14'	26°51'	20°13'	17°R 9	17°5'	12°47'	17°38'	S 9
S 10	21 16 13	17°57'43"	19°24'	15°15'	2°17'	2°40'	20°3'	22°7'	17°17'	26°51'	20°11'	17°9'	17°1'	12°53'	17°41'	S 10
M11	21 20 10	18°55'16"	1°17'27"	16°17'	3°16'	3°18'	20°13'	22°15'	17°21'	26°50'	20°10'	17°9'	16°58'	13°0'	17°44'	M11
T 12	21 24 7	19°52'49"	13°41'	17°15'	4°14'	3°56'	20°23'	22°22'	17°24'	26°50'	20°9'	17°9'	16°55'	13°6'	17°47'	T 12
W13	21 28 3	20°50'24"	26°8'	18°11'	5°13'	4°34'	20°33'	22°30'	17°27'	26°49'	20°7'	17°9'	16°52'	13°13'	17°50'	W13
T 14	21 32 0	21°48'00"	8°12'52"	19°4'	6°13'	5°12'	20°43'	22°38'	17°30'	26°49'	20°6'	17°8'	16°49'	13°20'	17°53'	T 14
F 15	21 35 56	22°45'38"	21°56'	19°53'	7°12'	5°50'	20°53'	22°45'	17°33'	26°48'	20°5'	17°D 8	16°46'	13°26'	17°56'	F 15
S 16	21 39 53	23°43'18"	5°11'23"	20°40'	8°13'	6°28'	21°3'	22°53'	17°36'	26°48'	20°3'	17°8'	16°42'	13°33'	17°58'	S 16
S 17	21 43 49	24°40'59"	19°14'	21°23'	9°13'	7°6'	21°12'	23°1'	17°40'	26°47'	20°2'	17°9'	16°39'	13°40'	18°1'	S 17
M18	21 47 46	25°38'41"	3°22'29"	22°2'	10°14'	7°44'	21°22'	23°8'	17°43'	26°47'	20°1'	17°9'	16°36'	13°46'	18°4'	M18
T 19	21 51 42	26°36'26"	18°6'	22°38'	11°15'	8°22'	21°31'	23°16'	17°46'	26°46'	19°59'	17°10'	16°33'	13°53'	18°6'	T 19
W20	21 55 39	27°34'11"	3°12'2"	23°9'	12°17'	9°0'	21°40'	23°24'	17°49'	26°45'	19°58'	17°11'	16°30'	14°0'	18°9'	W20
T 21	21 59 36	28°31'59"	18°8'	23°36'	13°19'	9°38'	21°49'	23°31'	17°52'	26°45'	19°57'	17°R11	16°26'	14°6'	18°11'	T 21
F 22	22 3 32	29°29'47"	3°17'17"	23°58'	14°21'	10°16'	21°58'	23°39'	17°55'	26°44'	19°55'	17°11'	16°23'	14°13'	18°13'	F 22
S 23	22 7 29	0°17'27'37"	18°18'	24°16'	15°23'	10°55'	22°7'	23°47'	17°57'	26°43'	19°54'	17°10'	16°20'	14°20'	18°16'	S 23
S 24	22 11 25	1°25'28"	3°12'5"	24°29'	16°26'	11°33'	22°16'	23°54'	18°0'	26°43'	19°53'	17°8'	16°17'	14°26'	18°18'	S 24
M25	22 15 22	2°23'21"	17°29'	24°36'	17°29'	12°11'	22°25'	24°2'	18°3'	26°42'	19°52'	17°6'	16°14'	14°33'	18°20'	M25
T 26	22 19 18	3°21'15"	1°11'27"	24°R38	18°32'	12°49'	22°33'	24°10'	18°6'	26°41'	19°50'	17°4'	16°11'	14°39'	18°22'	T 26
W27	22 23 15	4°19'10"	14°58'	24°34'	19°36'	13°27'	22°41'	24°17'	18°9'	26°40'	19°49'	17°3'	16°7'	14°46'	18°24'	W27
T 28	22 27 11	5°17'06"	28°3'	24°24'	20°39'	14°6'	22°50'	24°25'	18°12'	26°39'	19°48'	17°2'	16°4'	14°53'	18°26'	T 28
F 29	22 31 8	6°15'04"	10°12'44"	24°8'	21°43'	14°44'	22°58'	24°32'	18°14'	26°38'	19°46'	17°D 2	16°1'	14°59'	18°28'	F 29
S 30	22 35 5	7°13'03"	23°6'	23°47'	22°48'	15°22'	23°6'	24°40'	18°17'	26°37'	19°45'	17°3'	15°58'	15°6'	18°30'	S 30
S 31	22 39 1	8°11'03"	5°13'13"	23°17'19"	23°25'52"	16°17'0"	23°11'13"	24°12'47"	18°22'0"	26°V36	19°R44	17°12'4"	15°12'55"	15°R13	18°11'32"	S 31

Delta T = 70.91 sec

ASTRODIENST EPHEMERIS for the year 2036

geocentric

SEPTEMBER 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 42 58	9♍ 9'05	17♌ 9	22°R45	24♌57	16♍39	23♌21	24♌55	18♌22	26°R35	19°R43	17♌ 6	15♌51	15♌19	18♌34	M 1
T 2	22 46 54	10° 7'08	28°59	22♍ 5	26° 2	17°17	23°29	25° 2	18°25	26°Y34	19°R41	17° 7	15°48	15°26	18°35	T 2
W 3	22 50 51	11° 5'13	10♌46	21°20	27° 7	17°55	23°36	25°10	18°27	26°33	19°40	17° 8	15°45	15°33	18°37	W 3
T 4	22 54 47	12° 3'19	22°34	20°30	28°13	18°34	23°43	25°17	18°30	26°32	19°39	17°R 8	15°42	15°39	18°39	T 4
F 5	22 58 44	13° 1'26	4♌26	19°37	29°18	19°12	23°50	25°25	18°32	26°31	19°38	17° 7	15°39	15°46	18°40	F 5
S 6	23 2 40	13°59'36	16°24	18°40	0♌24	19°50	23°57	25°32	18°35	26°30	19°37	17° 4	15°36	15°53	18°41	S 6
S 7	23 6 37	14°57'47	28°30	17°42	1°30	20°29	24° 4	25°40	18°37	26°29	19°35	17° 1	15°32	15°59	18°43	S 7
M 8	23 10 33	15°56'00	10°Y46	16°42	2°37	21° 7	24°11	25°47	18°39	26°28	19°34	16°56	15°29	16° 6	18°44	M 8
T 9	23 14 30	16°54'14	23°12	15°43	3°43	21°46	24°17	25°54	18°42	26°27	19°33	16°51	15°26	16°13	18°45	T 9
W10	23 18 27	17°52'31	5♌51	14°46	4°50	22°24	24°23	26° 2	18°44	26°25	19°32	16°46	15°23	16°19	18°46	W10
T 11	23 22 23	18°50'50	18°43	13°52	5°57	23° 3	24°30	26° 9	18°46	26°24	19°31	16°42	15°20	16°26	18°47	T 11
F 12	23 26 20	19°49'10	1♌51	13° 3	7° 4	23°41	24°36	26°16	18°48	26°23	19°30	16°39	15°17	16°32	18°48	F 12
S 13	23 30 16	20°47'33	15°16	12°19	8°11	24°20	24°41	26°24	18°51	26°22	19°28	16°D38	15°13	16°39	18°49	S 13
S 14	23 34 13	21°45'59	28°59	11°42	9°19	24°58	24°47	26°31	18°53	26°20	19°27	16°38	15°10	16°46	18°50	S 14
M15	23 38 9	22°44'26	13♌ 0	11°13	10°26	25°37	24°53	26°38	18°55	26°19	19°26	16°39	15° 7	16°52	18°51	M15
T 16	23 42 6	23°42'55	27°20	10°52	11°34	26°15	24°58	26°45	18°57	26°18	19°25	16°41	15° 4	16°59	18°52	T 16
W17	23 46 2	24°41'27	11♌57	10°41	12°42	26°54	25° 3	26°52	18°59	26°16	19°24	16°R41	15° 1	17° 6	18°52	W17
T 18	23 49 59	25°40'01	26°45	10°D39	13°51	27°33	25° 8	26°59	19° 1	26°15	19°23	16°41	14°57	17°12	18°53	T 18
F 19	23 53 56	26°38'36	11♍40	10°46	14°59	28°11	25°13	27° 6	19° 3	26°14	19°22	16°39	14°54	17°19	18°53	F 19
S 20	23 57 52	27°37'14	26°33	11° 3	16° 7	28°50	25°18	27°13	19° 4	26°12	19°21	16°35	14°51	17°26	18°54	S 20
S 21	0 1 49	28°35'54	11♌16	11°30	17°16	29°29	25°22	27°20	19° 6	26°11	19°20	16°29	14°48	17°32	18°54	S 21
M22	0 5 45	29°34'35	25°41	12° 5	18°25	0♌ 8	25°27	27°27	19° 8	26° 9	19°19	16°23	14°45	17°39	18°54	M22
T 23	0 9 42	0♌33'18	9♌43	12°50	19°34	0°46	25°31	27°34	19°10	26° 8	19°18	16°16	14°42	17°46	18°55	T 23
W24	0 13 38	1°32'04	23°19	13°42	20°43	1°25	25°35	27°41	19°11	26° 6	19°17	16° 9	14°38	17°52	18°55	W24
T 25	0 17 35	2°30'51	6♌28	14°43	21°52	2° 4	25°38	27°48	19°13	26° 5	19°16	16° 5	14°35	17°59	18°55	T 25
F 26	0 21 31	3°29'39	19°12	15°50	23° 2	2°43	25°42	27°54	19°14	26° 3	19°15	16° 2	14°32	18° 5	18°55	F 26
S 27	0 25 28	4°28'30	1♌34	17° 3	24°11	3°22	25°45	28° 1	19°16	26° 2	19°15	16°D 0	14°29	18°12	18°55	S 27
S 28	0 29 25	5°27'22	13°41	18°23	25°21	4° 1	25°49	28° 8	19°17	26° 0	19°14	16° 1	14°26	18°19	18°54	S 28
M29	0 33 21	6°26'16	25°35	19°47	26°31	4°40	25°52	28°14	19°19	25°59	19°13	16° 2	14°23	18°25	18°54	M29
T 30	0 37 18	7♌25'11	7♌24	21♍16	27♌41	5♌18	25♌55	28♌21	19°20	25°Y57	19°R12	16♌ 3	14♌19	18°R32	18♌54	T 30

Delta T = 70.93 sec

OCTOBER 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 41 14	8♌24'09	19♌11	22♍48	28♌51	5♌57	25♌57	28♌27	19°21	25°R56	19°R11	16°R 3	14♌16	18°R39	18°R53	W 1
T 2	0 45 11	9°23'08	1♌ 2	24°24	0♍ 1	6°36	26° 0	28°34	19°23	25°Y54	19°R11	16♌ 2	14°13	18°45	18♌53	T 2
F 3	0 49 7	10°22'09	12°59	26° 2	1°11	7°15	26° 2	28°40	19°24	25°52	19°10	15°58	14°10	18°52	18°53	F 3
S 4	0 53 4	11°21'12	25° 7	27°42	2°22	7°54	26° 4	28°47	19°25	25°51	19° 9	15°52	14° 7	18°59	18°52	S 4
S 5	0 57 0	12°20'16	7°Y26	29°24	3°32	8°34	26° 6	28°53	19°26	25°49	19° 8	15°44	14° 3	19° 5	18°51	S 5
M 6	1 0 57	13°19'23	19°58	1♌ 8	4°43	9°13	26° 8	28°59	19°27	25°47	19° 8	15°34	14° 0	19°12	18°51	M 6
T 7	1 4 53	14°18'32	2♌43	2°52	5°54	9°52	26° 9	29° 5	19°28	25°46	19° 7	15°24	13°57	19°19	18°50	T 7
W 8	1 8 50	15°17'43	15°41	4°37	7° 5	10°31	26°10	29°11	19°29	25°44	19° 6	15°13	13°54	19°25	18°49	W 8
T 9	1 12 47	16°16'57	28°51	6°22	8°16	11°10	26°12	29°18	19°30	25°43	19° 6	15° 4	13°51	19°32	18°48	T 9
F 10	1 16 43	17°16'12	12♌12	8° 8	9°27	11°49	26°12	29°24	19°31	25°41	19° 5	14°57	13°48	19°38	18°47	F 10
S 11	1 20 40	18°15'30	25°45	9°53	10°38	12°28	26°13	29°30	19°32	25°39	19° 5	14°52	13°44	19°45	18°46	S 11
S 12	1 24 36	19°14'50	9♌29	11°39	11°50	13° 8	26°14	29°35	19°32	25°38	19° 4	14°50	13°41	19°52	18°45	S 12
M13	1 28 33	20°14'13	23°24	13° 1	13°47	14°14	26°14	29°41	19°33	25°36	19° 4	14°D50	13°38	19°58	18°43	M13
T 14	1 32 29	21°13'38	7♌30	15° 9	14°13	14°26	26°R14	29°47	19°34	25°34	19° 3	14°R50	13°35	20° 5	18°42	T 14
W15	1 36 26	22°13'05	21°47	16°54	15°25	15° 6	26°14	29°53	19°34	25°33	19° 3	14°50	13°32	20°12	18°41	W15
T 16	1 40 22	23°12'35	6♍12	18°38	16°37	15°45	26°14	29°58	19°35	25°31	19° 2	14°48	13°28	20°18	18°39	T 16
F 17	1 44 19	24°12'06	20°43	20°22	17°49	16°24	26°13	0♍ 4	19°35	25°29	19° 2	14°44	13°25	20°25	18°38	F 17
S 18	1 48 16	25°11'40	5♌14	22° 5	19° 1	17° 4	26°13	0° 9	19°36	25°28	19° 1	14°37	13°22	20°32	18°36	S 18
S 19	1 52 12	26°11'16	19°38	23°48	20°13	17°43	26°12	0°15	19°36	25°26	19° 1	14°28	13°19	20°38	18°35	S 19
M20	1 56 9	27°10'54	3♌51	25°30	21°25	18°23	26°11	0°20	19°36	25°24	19° 1	14°16	13°16	20°45	18°33	M20
T 21	2 0 5	28°10'34	17°45	27°11	22°37	19° 2	26° 9	0°25	19°37	25°22	19° 0	14° 4	13°13	20°52	18°31	T 21
W22	2 4 2	29°10'16	1♌17	28°52	23°50	19°42	26° 8	0°30	19°37	25°21	19° 0	13°53	13° 9	20°58	18°29	W22
T 23	2 7 58	0♌10'00	14°25	0♌32	25° 2	20°21	26° 6	0°36	19°37	25°19	19° 0	13°44	13° 6	21° 5	18°27	T 23
F 24	2 11 55	1° 9'46	27°10	2°12	26°15	21° 1	26° 4	0°41	19°37	25°17	19° 0	13°37	13° 3	21°11	18°25	F 24
S 25	2 15 51	2° 9'34	9♌34	3°51	27°27	21°41	26° 2	0°46	19°R37	25°16	18°59	13°33	13° 0	21°18	18°23	S 25
S 26	2 19 48	3° 9'23	21°41	5°29	28°40	22°20	26° 0	0°50	19°37	25°14	18°59	13°31	12°57	21°25	18°21	S 26
M27	2 23 45	4° 9'14	3♌36	7° 7	29°53	23° 0	25°57	0°55	19°37	25°12	18°59	13°D30	12°54	21°31	18°19	M27
T 28	2 27 41	5° 9'06	15°25	8°45	1♌ 6	23°40	25°55	1° 0	19°37	25°11	18°59	13°R30	12°50	21°38	18°17	T 28
W29	2 31 38	6° 9'00	6° 9'00	27°13	10°22	2°19	24°19	25°52	1° 5	19°37	25° 9	18°59	13°30	12°47	18°15	W29
T 30	2 35 34	7° 8'56	9♌ 5	11°58	3°32	24°59	25°49	1° 9	19°36	25° 8	18°59	13°27	12°44	21°51	18°12	T 30
F 31	2 39 31	8♌ 8'53	21♌ 7	13♌34	4♌45	25♌39	25♌45	1♍14	19°20	25°Y 6	18°R59	13°R23	12♌41	21°R58	18♌10	F 31

Delta T = 70.95 sec

ASTRODIENST EPHEMERIS for the year 2036

geocentric

NOVEMBER 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 43 27	9♉ 8°53	3♊ 22°	15♈ 9	5♊ 58	26♊ 19	25°R42	1♈ 18	19°R36	25°R 4	18°D59	13°R15	12♈ 38	22♈ 5	18°R 7	S 1
S 2	2 47 24	10° 8'53	15°53	16°44	7°11	26°59	25♈ 38	1°22	19°35	25°Y 3	18°59	13♈ 5	12°34	22°11	18♈ 5	S 2
M 3	2 51 20	11° 8'56	28°41	18°19	8°24	27°38	25°34	1°26	19°35	25° 1	18°59	12°53	12°31	22°18	18° 2	M 3
T 4	2 55 17	12° 9'00	11♈ 46	19°53	9°38	28°18	25°30	1°31	19°34	24°59	18°59	12°39	12°28	22°25	18° 0	T 4
W 5	2 59 14	13° 9'07	25° 8	21°27	10°51	28°58	25°26	1°35	19°34	24°58	18°59	12°26	12°25	22°31	17°57	W 5
T 6	3 3 10	14° 9'15	8♈ 42	23° 0	12° 5	29°38	25°22	1°39	19°33	24°56	18°59	12°14	12°22	22°38	17°55	T 6
F 7	3 7 7	15° 9'25	22°27	24°33	13°18	0♈ 18	25°17	1°42	19°33	24°55	18°59	12° 5	12°19	22°45	17°52	F 7
S 8	3 11 3	16° 9'37	6♈ 20	26° 5	14°32	0°58	25°12	1°46	19°32	24°53	18°59	11°59	12°15	22°51	17°49	S 8
S 9	3 15 0	17° 9'51	20°17	27°37	15°46	1°38	25° 7	1°50	19°31	24°52	19° 0	11°55	12°12	22°58	17°46	S 9
M10	3 18 56	18°10'08	4♈ 18	29° 9	16°59	2°18	25° 2	1°53	19°30	24°50	19° 0	11°54	12° 9	23° 4	17°43	M10
T 11	3 22 53	19°10'26	18°22	0♈ 41	18°13	2°59	24°57	1°57	19°29	24°49	19° 0	11°54	12° 6	23°11	17°40	T 11
W12	3 26 49	20°10'46	2♈ 28	2°12	19°27	3°39	24°52	2° 0	19°28	24°47	19° 0	11°54	12° 3	23°18	17°37	W12
T 13	3 30 46	21°11'08	16°35	3°43	20°41	4°19	24°46	2° 3	19°28	24°46	19° 1	11°52	12° 0	23°24	17°34	T 13
F 14	3 34 43	22°11'32	0♈ 41	5°13	21°55	4°59	24°40	2° 7	19°26	24°44	19° 1	11°47	11°56	23°31	17°31	F 14
S 15	3 38 39	23°11'58	14°45	6°43	23° 9	5°39	24°34	2°10	19°25	24°43	19° 1	11°40	11°53	23°38	17°28	S 15
S 16	3 42 36	24°12'26	28°43	8°13	24°23	6°20	24°28	2°13	19°24	24°41	19° 2	11°30	11°50	23°44	17°25	S 16
M17	3 46 32	25°12'55	12♈ 32	9°42	25°37	7° 0	24°22	2°16	19°23	24°40	19° 2	11°18	11°47	23°51	17°22	M17
T 18	3 50 29	26°13'27	26° 6	11°11	26°51	7°40	24°16	2°18	19°22	24°39	19° 3	11° 5	11°44	23°58	17°19	T 18
W19	3 54 25	27°13'59	9♈ 23	12°40	28° 6	8°21	24° 9	2°21	19°21	24°37	19° 3	10°53	11°40	24° 4	17°15	W19
T 20	3 58 22	28°14'34	22°22	14° 8	29°20	9° 1	24° 3	2°24	19°19	24°36	19° 3	10°43	11°37	24°11	17°12	T 20
F 21	4 2 18	29°15'10	5♈ 1	15°36	0♈ 34	9°42	23°56	2°26	19°18	24°35	19° 4	10°35	11°34	24°18	17° 9	F 21
S 22	4 6 15	0♈ 15'47	17°22	17° 3	1°49	10°22	23°49	2°29	19°17	24°33	19° 5	10°30	11°31	24°24	17° 6	S 22
S 23	4 10 12	1°16'25	29°28	18°29	3° 3	11° 3	23°42	2°31	19°15	24°32	19° 5	10°27	11°28	24°31	17° 2	S 23
M24	4 14 8	2°17'04	11♈ 23	19°55	4°17	11°43	23°35	2°33	19°14	24°31	19° 6	10°D27	11°25	24°38	16°59	M24
T 25	4 18 5	3°17'45	23°12	21°20	5°32	12°24	23°28	2°35	19°12	24°30	19° 6	10°27	11°21	24°44	16°55	T 25
W26	4 22 1	4°18'26	5♈ 0	22°45	6°46	13° 4	23°21	2°37	19°11	24°28	19° 7	10°R27	11°18	24°51	16°52	W26
T 27	4 25 58	5°19'09	16°52	24° 8	8° 1	13°45	23°13	2°39	19° 9	24°27	19° 8	10°27	11°15	24°58	16°49	T 27
F 28	4 29 54	6°19'53	28°55	25°30	9°15	14°26	23° 6	2°41	19° 7	24°26	19° 8	10°24	11°12	25° 4	16°45	F 28
S 29	4 33 51	7°20'37	11♈ 13	26°51	10°30	15° 6	22°58	2°42	19° 6	24°25	19° 9	10°19	11° 9	25°11	16°42	S 29
S 30	4 37 47	8♈ 21'23	23♈ 49	28♈ 11	11♈ 45	15♈ 47	22♈ 50	2♈ 44	19° 4	24°Y24	19°10	10♈ 11	11♈ 5	25°17	16♈ 38	S 30

Delta T = 70.97 sec

DECEMBER 2036

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 41 44	9♈ 22°10	6♈ 47	29♈ 29	12♈ 59	16♈ 28	22°R43	2♈ 45	19°R 2	24°R23	19°11	10°R 2	11♈ 2	25°24	16°R35	M 1
T 2	4 45 41	10°22'58	20° 7	0♈ 45	14°14	17° 9	22♈ 35	2°46	19° 0	24°Y22	19°11	9♈ 51	10°59	25°31	16♈ 31	T 2
W 3	4 49 37	11°23'47	3♈ 47	1°59	15°29	17°50	22°27	2°48	18°58	24°21	19°12	9°41	10°56	25°37	16°27	W 3
T 4	4 53 34	12°24'37	17°46	3°11	16°43	18°30	22°19	2°49	18°56	24°20	19°13	9°31	10°53	25°44	16°24	T 4
F 5	4 57 30	13°25'28	1♈ 58	4°19	17°58	19°11	22°11	2°50	18°54	24°19	19°14	9°24	10°50	25°51	16°20	F 5
S 6	5 1 27	14°26'20	16°18	5°25	19°13	19°52	22° 3	2°50	18°52	24°18	19°15	9°19	10°46	25°57	16°17	S 6
S 7	5 5 23	15°27'14	0♈ 40	6°26	20°28	20°33	21°55	2°51	18°50	24°17	19°16	9°17	10°43	26° 4	16°13	S 7
M 8	5 9 20	16°28'09	15° 1	7°24	21°42	21°14	21°47	2°52	18°48	24°16	19°17	9°D17	10°40	26°11	16°10	M 8
T 9	5 13 16	17°29'05	29°17	8°16	22°57	21°55	21°39	2°52	18°46	24°15	19°18	9°18	10°37	26°17	16° 6	T 9
W10	5 17 13	18°30'02	13♈ 26	9° 3	24°12	22°36	21°31	2°53	18°44	24°14	19°19	9°R19	10°34	26°24	16° 3	W10
T 11	5 21 10	19°31'00	27°28	9°43	25°27	23°17	21°23	2°53	18°42	24°13	19°20	9°19	10°31	26°31	15°59	T 11
F 12	5 25 6	20°32'00	11♈ 20	10°16	26°42	23°59	21°14	2°53	18°40	24°13	19°21	9°17	10°27	26°37	15°55	F 12
S 13	5 29 3	21°33'01	25° 3	10°41	27°57	24°40	21° 6	2°R53	18°38	24°12	19°22	9°12	10°24	26°44	15°52	S 13
S 14	5 32 59	22°34'03	8♈ 35	10°57	29°12	25°21	20°58	2°53	18°35	24°11	19°23	9° 6	10°21	26°51	15°48	S 14
M15	5 36 56	23°35'05	21°57	11°R 3	0♈ 27	26° 2	20°50	2°53	18°33	24°10	19°24	8°58	10°18	26°57	15°45	M15
T 16	5 40 52	24°36'09	5♈ 6	10°58	1°42	26°43	20°42	2°53	18°31	24°10	19°25	8°50	10°15	27° 4	15°41	T 16
W17	5 44 49	25°37'14	18° 1	10°43	2°57	27°25	20°34	2°52	18°29	24° 9	19°26	8°42	10°11	27°11	15°38	W17
T 18	5 48 45	26°38'19	0♈ 42	10°15	4°12	28° 6	20°26	2°52	18°26	24° 9	19°28	8°35	10° 8	27°17	15°34	T 18
F 19	5 52 42	27°39'25	13° 9	9°36	5°27	28°47	20°17	2°51	18°24	24° 8	19°29	8°30	10° 5	27°24	15°31	F 19
S 20	5 56 39	28°40'31	25°23	8°46	6°42	29°29	20° 9	2°51	18°22	24° 8	19°30	8°27	10° 2	27°30	15°27	S 20
S 21	6 0 35	29°41'38	7♈ 24	7°46	7°57	0♈ 10	20° 1	2°50	18°19	24° 7	19°31	8°D26	9°59	27°37	15°24	S 21
M22	6 4 32	0♈ 42'45	19°18	6°36	9°13	0°52	19°54	2°49	18°17	24° 7	19°33	8°27	9°56	27°44	15°20	M22
T 23	6 8 28	1°43'52	1♈ 6	5°20	10°28	1°33	19°46	2°48	18°14	24° 6	19°34	8°28	9°52	27°50	15°17	T 23
W24	6 12 25	2°45'00	12°53	3°59	11°43	2°15	19°38	2°47	18°12	24° 6	19°35	8°30	9°49	27°57	15°14	W24
T 25	6 16 21	3°46'07	24°44	2°37	12°58	2°56	19°30	2°45	18° 9	24° 5	19°36	8°32	9°46	28° 4	15°10	T 25
F 26	6 20 18	4°47'15	6♈ 45	1°15	14°13	3°38	19°23	2°44	18° 7	24° 5	19°38	8°R32	9°43	28°10	15° 7	F 26
S 27	6 24 14	5°48'22	19° 0	29♈ 57	15°28	4°20	19°15	2°43	18° 4	24° 5	19°39	8°31	9°40	28°17	15° 4	S 27
S 28	6 28 11	6°49'30	1♈ 35	28°45	16°43	5° 1	19° 8	2°41	18° 2	24° 5	19°40	8°28	9°37	28°24	15° 1	S 28
M29	6 32 8	7°50'38	14°32	27°41	17°58	5°43	19° 0	2°39	17°59	24° 4	19°42	8°25	9°33	28°30	14°57	M29
T 30	6 36 4	8°51'46	27°55	26°46	19°14	6°25	18°53	2°37	17°57	24° 4	19°43	8°20	9°30	28°37	14°54	T 30
W31	6 40 1	9♈ 52'54	11♈ 43	26♈ 1	20♈ 29	7♈ 6	18♈ 46	2♈ 36	17° 54	24°Y 4	19°44	8♈ 16	9♈ 27	28°44	14♈ 51	W31

Delta T = 71.00 sec