

Ephemerides year 2048

# Ephemeris Tables for the year 2048

## Tropical Zodiac

Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, Moon's Node, Chiron, Lilith, True Node, True Lilith, Eris, Sedna

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## Symbols

### Planets

☉ = Sun  
☾ = Moon  
☿ = Mercury  
♀ = Venus  
♂ = Mars  
♃ = Jupiter  
♄ = Saturn  
♅ = Uranus  
♆ = Neptune  
♇ = Pluto  
♁ = Eris  
♂♁ = Sedna

### Zodiacal Signs

♈ = Aries  
♉ = Taurus  
♊ = Gemini  
♋ = Cancer  
♌ = Leo  
♍ = Virgo  
♎ = Libra  
♏ = Scorpio  
♐ = Sagittarius  
♑ = Capricorn  
♒ = Aquarius  
♓ = Pisces

### Asteroids and Other Points

♁♃ = Chiron  
♁♄ = Moon's Node  
T♁ = True Node  
♁♁ = Lilith  
T♁♁ = True Lilith

Ephemerides year 2048

Date	Time	Planet	Longitude	Declination	Latitude	Speed	Radius
01/01/2048	00:00:00	♃	10°13'27" ♁	-23°02'21"	00°00'00"	01°01'07"	0.983
01/01/2048	00:00:00	♄	06°58'57" ♁	23°13'53"	-00°01'03"	12°11'15"	0.003
01/01/2048	00:00:00	♅	24°44'42" ♁	-23°14'23"	-02°06'08"	01°33'48"	1.252
01/01/2048	00:00:00	♆	04°19'30" ♁	-19°12'47"	01°49'14"	01°13'20"	1.228
01/01/2048	00:00:00	♇	02°21'46" ♁	-11°00'53"	01°21'28"	00°34'23"	1.750
01/01/2048	00:00:00	♈	15°48'51" ♁	15°32'30"	-01°04'22"	-00°01'52"	4.367
01/01/2048	00:00:00	♉	07°22'27" ♁	-22°34'05"	00°39'38"	00°07'05"	11.026
01/01/2048	00:00:00	♊	11°04'00" ♁	08°08'41"	00°47'24"	-00°00'50"	17.801
01/01/2048	00:00:00	♋	19°01'54" ♁	15°45'23"	-01°47'06"	-00°00'54"	29.190
01/01/2048	00:00:00	♌	04°55'52" ♁	-20°58'39"	-12°09'40"	00°01'04"	41.515
01/01/2048	00:00:00	♍	06°47'36" ♁	-23°15'32"	00°00'00"	00°00'00"	0.003
01/01/2048	00:00:00	♎	09°02'42" ♁	-14°08'10"	00°23'30"	00°05'41"	9.098
01/01/2048	00:00:00	♏	26°32'26" ♁	22°36'23"	03°19'22"	00°06'40"	0.003
01/01/2048	00:00:00	T♏	06°47'36" ♁	-23°15'32"	00°00'00"	00°00'00"	0.003
01/01/2048	00:00:00	T♎	24°38'54" ♁	22°22'25"	03°33'23"	02°15'54"	0.003
01/01/2048	00:00:00	X	29°47'26" ♁	05°43'08"	-06°03'27"	-00°00'10"	92.835
01/01/2048	00:00:00	Y	16°10'09" ♁	11°31'15"	-11°15'00"	-00°00'36"	77.559

Ephemerides year 2048

02/01/2048 00:00:00	☉	11°14'35" ♍	-22°57'26"	-00°00'00"	01°01'07"	0.983
02/01/2048 00:00:00	☾	19°15'20" ♎	20°55'03"	-01°08'41"	12°21'41"	0.003
02/01/2048 00:00:00	♁	26°18'11" ♍	-22°54'15"	-02°03'21"	01°33'06"	1.234
02/01/2048 00:00:00	♂	05°32'52" ♎	-19°27'46"	01°47'19"	01°13'23"	1.234
02/01/2048 00:00:00	♂	02°56'08" ♎	-11°12'42"	01°21'23"	00°34'20"	1.741
02/01/2048 00:00:00	♃	15°47'04" ♉	15°32'16"	-01°04'04"	-00°01'40"	4.381
02/01/2048 00:00:00	♄	07°29'32" ♍	-22°33'46"	00°39'34"	00°07'05"	11.025
02/01/2048 00:00:00	♅	11°03'08" ♎	08°09'03"	00°47'27"	-00°00'53"	17.786
02/01/2048 00:00:00	♆	19°01'00" ♉	15°45'11"	-01°47'03"	-00°00'53"	29.204
02/01/2048 00:00:00	♇	04°56'57" ♉	-20°58'04"	-12°09'27"	00°01'05"	41.529
02/01/2048 00:00:00	♈	06°47'29" ♍	-23°15'32"	00°00'00"	-00°00'14"	0.003
02/01/2048 00:00:00	♉	09°08'21" ♎	-14°09'38"	00°23'51"	00°05'36"	9.084
02/01/2048 00:00:00	♊	26°39'07" ♉	22°37'18"	03°18'41"	00°06'40"	0.003
02/01/2048 00:00:00	♋	06°47'29" ♍	-23°15'32"	00°00'00"	-00°00'14"	0.003
02/01/2048 00:00:00	♌	27°31'53" ♉	22°52'06"	03°21'13"	03°31'52"	0.003
02/01/2048 00:00:00	X	29°47'15" ♎	05°43'10"	-06°03'21"	-00°00'10"	92.852
02/01/2048 00:00:00	Y	16°09'33" ♎	11°31'16"	-11°14'56"	-00°00'35"	77.566
03/01/2048 00:00:00	☉	12°15'43" ♍	-22°52'04"	-00°00'00"	01°01'08"	0.983
03/01/2048 00:00:00	☾	01°42'44" ♎	17°35'39"	-02°14'03"	12°33'17"	0.003

Ephemerides year 2048

03/01/2048 00:00:00	♀	27°50'51" ♍	-22°32'43"	-01°59'55"	01°32'12"	1.216
03/01/2048 00:00:00	♀	06°46'17" ♈	-19°42'14"	01°45'20"	01°13'26"	1.240
03/01/2048 00:00:00	♂	03°30'26" ♎	-11°24'25"	01°21'17"	00°34'16"	1.731
03/01/2048 00:00:00	♃	15°45'30" ♉	15°32'05"	-01°03'47"	-00°01'28"	4.394
03/01/2048 00:00:00	♃	07°36'38" ♍	-22°33'25"	00°39'30"	00°07'05"	11.024
03/01/2048 00:00:00	♃	11°02'12" ♎	08°09'26"	00°47'29"	-00°00'57"	17.771
03/01/2048 00:00:00	♃	19°00'08" ♉	15°45'00"	-01°47'00"	-00°00'51"	29.218
03/01/2048 00:00:00	♃	04°58'03" ♋	-20°57'28"	-12°09'15"	00°01'06"	41.543
03/01/2048 00:00:00	♃	06°47'06" ♍	-23°15'33"	00°00'00"	-00°00'32"	0.002
03/01/2048 00:00:00	♃	09°13'55" ♎	-14°11'05"	00°24'12"	00°05'31"	9.070
03/01/2048 00:00:00	♃	26°45'48" ♉	22°38'14"	03°18'01"	00°06'40"	0.003
03/01/2048 00:00:00	T♃	06°47'06" ♍	-23°15'33"	00°00'00"	-00°00'32"	0.002
03/01/2048 00:00:00	T♃	01°42'35" ♋	23°28'47" ♄	03°02'41"	04°47'29"	0.003
03/01/2048 00:00:00	X	29°47'05" ♎	05°43'12"	-06°03'15"	-00°00'09"	92.868
03/01/2048 00:00:00	Y	16°08'58" ♎	11°31'17"	-11°14'52"	-00°00'35"	77.573
04/01/2048 00:00:00	♃	13°16'51" ♍	-22°46'14"	-00°00'00"	01°01'08"	0.983
04/01/2048 00:00:00	♃	14°22'15" ♉	13°25'14"	-03°13'53"	12°45'51"	0.003
04/01/2048 00:00:00	♀	29°22'31" ♍	-22°09'49"	-01°55'49"	01°31'05"	1.197
04/01/2048 00:00:00	♀	07°59'45" ♈	-19°56'12"	01°43'17"	01°13'29"	1.246

Ephemerides year 2048

04/01/2048 00:00:00	♂	04°04'40" ♎	-11°36'04"	01°21'11"	00°34'12"	1.722
04/01/2048 00:00:00	♃	15°44'08" ♉	15°31'58"	-01°03'30"	-00°01'15"	4.408
04/01/2048 00:00:00	♅	07°43'43" ♄	-22°33'05"	00°39'26"	00°07'04"	11.022
04/01/2048 00:00:00	♁	11°01'14" ♈	08°09'51"	00°47'32"	-00°01'00"	17.757
04/01/2048 00:00:00	♃	18°59'17" ♉	15°44'49"	-01°46'57"	-00°00'49"	29.232
04/01/2048 00:00:00	♁	04°59'10" ♈	-20°56'52"	-12°09'04"	00°01'07"	41.557
04/01/2048 00:00:00	♁	06°46'24" ♄	-23°15'35"	00°00'00"	-00°00'50"	0.002
04/01/2048 00:00:00	♃	09°19'24" ♎	-14°12'29"	00°24'33"	00°05'26"	9.055
04/01/2048 00:00:00	♁	26°52'28" ♉	22°39'08"	03°17'20"	00°06'40"	0.003
04/01/2048 00:00:00	T♁	06°46'24" ♄	-23°15'35"	00°00'00"	-00°00'50"	0.002
04/01/2048 00:00:00	T♁	06°58'56" ♈	24°03'53" ♁	02°37'56"	05°39'32"	0.003
04/01/2048 00:00:00	X	29°46'56" ♈	05°43'15"	-06°03'09"	-00°00'09"	92.884
04/01/2048 00:00:00	Y	16°08'22" ♈	11°31'18"	-11°14'47"	-00°00'35"	77.580
05/01/2048 00:00:00	♁	14°17'59" ♄	-22°39'57"	-00°00'00"	01°01'08"	0.983
05/01/2048 00:00:00	♃	27°14'45" ♉	08°35'09"	-04°04'56"	12°59'17"	0.003
05/01/2048 00:00:00	♃	00°52'56" ♈	-21°45'39"	-01°50'59"	01°29'42"	1.177
05/01/2048 00:00:00	♀	09°13'16" ♈	-20°09'37"	01°41'11"	01°13'32"	1.252
05/01/2048 00:00:00	♂	04°38'51" ♎	-11°47'37"	01°21'04"	00°34'08"	1.712
05/01/2048 00:00:00	♃	15°42'58" ♉	15°31'55"	-01°03'12"	-00°01'03"	4.421

Ephemerides year 2048

05/01/2048 00:00:00	♃	07°50'47" ♁	-22°32'44"	00°39'23"	00°07'04"	11.020
05/01/2048 00:00:00	♅	11°00'12" ♃	08°10'16"	00°47'34"	-00°01'03"	17.742
05/01/2048 00:00:00	♆	18°58'28" ♃	15°44'39"	-01°46'54"	-00°00'48"	29.246
05/01/2048 00:00:00	♁	05°00'18" ♃	-20°56'15"	-12°08'52"	00°01'08"	41.571
05/01/2048 00:00:00	♄	06°45'26" ♁	-23°15'38"	00°00'00"	-00°01'02"	0.002
05/01/2048 00:00:00	♆	09°24'47" ♃	-14°13'52"	00°24'54"	00°05'20"	9.041
05/01/2048 00:00:00	♁	26°59'09" ♃	22°40'03"	03°16'39"	00°06'40"	0.003
05/01/2048 00:00:00	♄	06°45'26" ♁	-23°15'38"	00°00'00"	-00°01'02"	0.002
05/01/2048 00:00:00	♁	12°47'49" ♃	24°27'38" ○	02°09'05"	05°50'26"	0.003
05/01/2048 00:00:00	X	29°46'47" ♃	05°43'17"	-06°03'03"	-00°00'08"	92.900
05/01/2048 00:00:00	Y	16°07'47" ♃	11°31'19"	-11°14'42"	-00°00'34"	77.588
06/01/2048 00:00:00	♃	15°19'08" ♁	-22°33'14"	-00°00'00"	01°01'08"	0.983
06/01/2048 00:00:00	♄	10°21'07" ♃	03°17'46"	-04°44'11"	13°13'32"	0.003
06/01/2048 00:00:00	♁	02°21'49" ♃	-21°20'17"	-01°45'23"	01°28'00"	1.156
06/01/2048 00:00:00	♆	10°26'49" ♃	-20°22'30"	01°39'01"	01°13'34"	1.258
06/01/2048 00:00:00	♃	05°12'57" ♃	-11°59'05"	01°20'58"	00°34'04"	1.702
06/01/2048 00:00:00	♁	15°42'01" ♃	15°31'55"	-01°02'55"	-00°00'51"	4.435
06/01/2048 00:00:00	♃	07°57'51" ♁	-22°32'22"	00°39'19"	00°07'03"	11.018
06/01/2048 00:00:00	♅	10°59'07" ♃	08°10'43"	00°47'36"	-00°01'06"	17.728

Ephemerides year 2048

06/01/2048 00:00:00	♁	18°57'41" ♈	15°44'29"	-01°46'50"	-00°00'46"	29.260
06/01/2048 00:00:00	♁	05°01'28" ♈	-20°55'38"	-12°08'41"	00°01'09"	41.585
06/01/2048 00:00:00	♁	06°44'22" ♈	-23°15'42"	00°00'00"	-00°01'03"	0.002
06/01/2048 00:00:00	♁	09°30'05" ♈	-14°15'12"	00°25'15"	00°05'15"	9.027
06/01/2048 00:00:00	♁	27°05'49" ♈	22°40'56"	03°15'58"	00°06'40"	0.003
06/01/2048 00:00:00	♁	06°44'22" ♈	-23°15'42"	00°00'00"	-00°01'03"	0.002
06/01/2048 00:00:00	♁	18°23'47" ♈	24°35'15" ♁	01°40'02"	05°13'37"	0.003
06/01/2048 00:00:00	♁	29°46'39" ♈	05°43'20"	-06°02'57"	-00°00'07"	92.917
06/01/2048 00:00:00	♁	16°07'13" ♈	11°31'21"	-11°14'38"	-00°00'34"	77.595
07/01/2048 00:00:00	♁	16°20'16" ♈	-22°26'03"	-00°00'00"	01°01'08"	0.983
07/01/2048 00:00:00	♁	23°42'05" ♈	-02°13'43"	-05°08'55"	13°28'30"	0.003
07/01/2048 00:00:00	♁	03°48'50" ♈	-20°53'49"	-01°38'59"	01°25'58"	1.134
07/01/2048 00:00:00	♁	11°40'25" ♈	-20°34'50"	01°36'48"	01°13'37"	1.264
07/01/2048 00:00:00	♁	05°46'59" ♈	-12°10'28"	01°20'51"	00°34'00"	1.693
07/01/2048 00:00:00	♁	15°41'16" ♈	15°31'59"	-01°02'37"	-00°00'38"	4.449
07/01/2048 00:00:00	♁	08°04'54" ♈	-22°32'01"	00°39'15"	00°07'03"	11.016
07/01/2048 00:00:00	♁	10°57'59" ♈	08°11'11"	00°47'39"	-00°01'09"	17.713
07/01/2048 00:00:00	♁	18°56'56" ♈	15°44'20"	-01°46'47"	-00°00'44"	29.275
07/01/2048 00:00:00	♁	05°02'38" ♈	-20°55'02"	-12°08'30"	00°01'11"	41.599



Ephemerides year 2048

07/01/2048 00:00:00	♏	06°43'23"	♌	-23°15'45"	00°00'00"	-00°00'51"	0.002
07/01/2048 00:00:00	♎	09°35'18"	♏	-14°16'31"	00°25'37"	00°05'10"	9.012
07/01/2048 00:00:00	♎	27°12'30"	♏	22°41'50"	03°15'17"	00°06'40"	0.003
07/01/2048 00:00:00	♏	06°43'23"	♌	-23°15'45"	00°00'00"	-00°00'51"	0.002
07/01/2048 00:00:00	♎	23°00'43"	♏	24°30'10"	01°15'20"	03°54'03"	0.003
07/01/2048 00:00:00	X	29°46'32"	♏	05°43'23"	-06°02'51"	-00°00'07"	92.933
07/01/2048 00:00:00	Y	16°06'38"	♏	11°31'22"	-11°14'33"	-00°00'34"	77.603
08/01/2048 00:00:00	♏	17°21'25"	♌	-22°18'26"	-00°00'00"	01°01'08"	0.983
08/01/2048 00:00:00	♎	07°18'18"	♏	-07°44'57"	-05°17'00"	13°43'58"	0.003
08/01/2048 00:00:00	♎	05°13'37"	♏	-20°26'23"	-01°31'44"	01°23'30"	1.111
08/01/2048 00:00:00	♎	12°54'04"	♏	-20°46'36"	01°34'32"	01°13'39"	1.270
08/01/2048 00:00:00	♏	06°20'58"	♏	-12°21'45"	01°20'43"	00°33'56"	1.683
08/01/2048 00:00:00	♏	15°40'43"	♏	15°32'06"	-01°02'20"	-00°00'26"	4.464
08/01/2048 00:00:00	♏	08°11'57"	♌	-22°31'38"	00°39'12"	00°07'02"	11.013
08/01/2048 00:00:00	♏	10°56'48"	♏	08°11'40"	00°47'41"	-00°01'12"	17.699
08/01/2048 00:00:00	♎	18°56'12"	♏	15°44'12"	-01°46'44"	-00°00'42"	29.290
08/01/2048 00:00:00	♏	05°03'50"	♏	-20°54'24"	-12°08'19"	00°01'12"	41.612
08/01/2048 00:00:00	♏	06°42'44"	♌	-23°15'47"	00°00'00"	-00°00'26"	0.002
08/01/2048 00:00:00	♎	09°40'25"	♏	-14°17'48"	00°25'58"	00°05'04"	8.997

Ephemerides year 2048

08/01/2048 00:00:00	☾	27°19'10"	♏	22°42'43"	03°14'36"	00°06'40"	0.003	
08/01/2048 00:00:00	♁	06°42'44"	♏	-23°15'47"	00°00'00"	-00°00'26"	0.002	
08/01/2048 00:00:00	♁	26°02'29"	♁	24°21'16"	♁	00°58'51"	02°06'34"	0.003
08/01/2048 00:00:00	X	29°46'25"	♁	05°43'27"	-06°02'45"	-00°00'06"	92.950	
08/01/2048 00:00:00	Y	16°06'05"	♁	11°31'24"	-11°14'28"	-00°00'33"	77.612	
09/01/2048 00:00:00	☉	18°22'34"	♏	-22°10'22"	-00°00'00"	01°01'09"	0.983	
09/01/2048 00:00:00	☾	21°10'02"	♁	-12°59'41"	-05°07'02"	13°59'25"	0.002	
09/01/2048 00:00:00	♀	06°35'42"	♁	-19°58'07"	-01°23'37"	01°20'35"	1.088	
09/01/2048 00:00:00	♀	14°07'44"	♁	-20°57'48"	01°32'13"	01°13'42"	1.275	
09/01/2048 00:00:00	♂	06°54'52"	♁	-12°32'57"	01°20'36"	00°33'51"	1.673	
09/01/2048 00:00:00	♁	15°40'23"	♏	15°32'17"	-01°02'02"	-00°00'13"	4.478	
09/01/2048 00:00:00	♁	08°18'59"	♏	-22°31'16"	00°39'08"	00°07'01"	11.010	
09/01/2048 00:00:00	♁	10°55'34"	♁	08°12'11"	00°47'43"	-00°01'15"	17.686	
09/01/2048 00:00:00	♁	18°55'31"	♏	15°44'04"	-01°46'41"	-00°00'40"	29.304	
09/01/2048 00:00:00	♁	05°05'02"	♁	-20°53'47"	-12°08'08"	00°01'13"	41.625	
09/01/2048 00:00:00	♁	06°42'34"	♏	-23°15'47"	00°00'00"	00°00'07"	0.002	
09/01/2048 00:00:00	♁	09°45'27"	♁	-14°19'03"	00°26'20"	00°04'59"	8.983	
09/01/2048 00:00:00	☾	27°25'51"	♏	22°43'36"	03°13'54"	00°06'40"	0.003	
09/01/2048 00:00:00	♁	06°42'34"	♏	-23°15'47"	00°00'00"	00°00'07"	0.002	

Ephemerides year 2048

09/01/2048 00:00:00	T♄	27°12'28" ♀	24°16'41" ♀	00°52'28"	00°15'08"	0.003
09/01/2048 00:00:00	X	29°46'19" ♀	05°43'30"	-06°02'39"	-00°00'05"	92.966
09/01/2048 00:00:00	Y	16°05'31" ♀	11°31'26"	-11°14'22"	-00°00'33"	77.620
10/01/2048 00:00:00	☉	19°23'43" ♀	-22°01'52"	-00°00'00"	01°01'09"	0.983
10/01/2048 00:00:00	☾	05°16'53" ♀	-17°39'03"	-04°38'35"	14°14'02"	0.002
10/01/2048 00:00:00	♁	07°54'37" ♀	-19°29'12"	-01°14'34"	01°17'07"	1.063
10/01/2048 00:00:00	♂	15°21'28" ♀	-21°08'25"	01°29'51"	01°13'44"	1.281
10/01/2048 00:00:00	♂	07°28'41" ♀	-12°44'03"	01°20'28"	00°33'47"	1.663
10/01/2048 00:00:00	♃	15°40'16" ♀	15°32'32"	-01°01'44"	-00°00'01"	4.492
10/01/2048 00:00:00	♄	08°26'00" ♀	-22°30'53"	00°39'05"	00°07'01"	11.007
10/01/2048 00:00:00	♅	10°54'17" ♀	08°12'42"	00°47'46"	-00°01'18"	17.672
10/01/2048 00:00:00	♆	18°54'51" ♀	15°43'56"	-01°46'37"	-00°00'38"	29.319
10/01/2048 00:00:00	♇	05°06'16" ♀	-20°53'10"	-12°07'57"	00°01'14"	41.638
10/01/2048 00:00:00	♈	06°42'58" ♀	-23°15'46"	00°00'00"	00°00'40"	0.002
10/01/2048 00:00:00	♉	09°50'24" ♀	-14°20'16"	00°26'41"	00°04'53"	8.968
10/01/2048 00:00:00	♊	27°32'31" ♀	22°44'28"	03°13'13"	00°06'40"	0.003
10/01/2048 00:00:00	T♈	06°42'58" ♀	-23°15'46"	00°00'00"	00°00'40"	0.002
10/01/2048 00:00:00	T♄	26°41'14" ♀	24°18'50" ♀	00°55'21"	-01°11'12"	0.003
10/01/2048 00:00:00	X	29°46'13" ♀	05°43'34"	-06°02'33"	-00°00'05"	92.983

Ephemerides year 2048

10/01/2048 00:00:00	Y	16°04'58" ♀	11°31'28"	-11°14'17"	-00°00'32"	77.629
11/01/2048 00:00:00	☉	20°24'52" ♄	-21°52'56"	-00°00'00"	01°01'09"	0.983
11/01/2048 00:00:00	☾	19°37'27" ♃	-21°21'46"	-03°52'30"	14°26'38"	0.002
11/01/2048 00:00:00	♀	09°09'45" ♁	-18°59'50"	-01°04'34"	01°13'02"	1.038
11/01/2048 00:00:00	♀	16°35'14" ♂	-21°18'26"	01°27'26"	01°13'46"	1.287
11/01/2048 00:00:00	♂	08°02'27" ♃	-12°55'04"	01°20'19"	00°33'43"	1.653
11/01/2048 00:00:00	♃	15°40'21" ♂	15°32'50"	-01°01'27"	00°00'11"	4.507
11/01/2048 00:00:00	♃	08°33'01" ♄	-22°30'29"	00°39'01"	00°07'00"	11.004
11/01/2048 00:00:00	♃	10°52'57" ♃	08°13'14"	00°47'48"	-00°01'21"	17.658
11/01/2048 00:00:00	♃	18°54'13" ♂	15°43'49"	-01°46'34"	-00°00'36"	29.335
11/01/2048 00:00:00	♃	05°07'31" ♃	-20°52'32"	-12°07'47"	00°01'15"	41.651
11/01/2048 00:00:00	♁	06°43'52" ♄	-23°15'43"	00°00'00"	00°01'04"	0.002
11/01/2048 00:00:00	♃	09°55'14" ♃	-14°21'27"	00°27'03"	00°04'48"	8.953
11/01/2048 00:00:00	♃	27°39'12" ♂	22°45'20"	03°12'32"	00°06'40"	0.003
11/01/2048 00:00:00	T♁	06°43'52" ♄	-23°15'43"	00°00'00"	00°01'04"	0.002
11/01/2048 00:00:00	T♃	25°05'21" ♀	24°24'36" ○	01°04'07"	-01°52'33"	0.003
11/01/2048 00:00:00	X	29°46'08" ♃	05°43'38"	-06°02'27"	-00°00'04"	93.000
11/01/2048 00:00:00	Y	16°04'26" ♀	11°31'31"	-11°14'12"	-00°00'32"	77.638
12/01/2048 00:00:00	☉	21°26'01" ♄	-21°43'35"	-00°00'00"	01°01'09"	0.983

Ephemerides year 2048

12/01/2048 00:00:00	♃	04°09'00" ♄	-23°46'14" ♁	-02°51'02"	14°35'47"	0.002
12/01/2048 00:00:00	♆	10°20'29" ♁	-18°30'15"	-00°53'35"	01°08'18"	1.012
12/01/2048 00:00:00	♀	17°49'01" ♄	-21°27'52"	01°24'58"	01°13'48"	1.293
12/01/2048 00:00:00	♂	08°36'08" ♃	-13°05'59"	01°20'11"	00°33'38"	1.644
12/01/2048 00:00:00	♂	15°40'38" ♄	15°33'12"	-01°01'09"	00°00'23"	4.522
12/01/2048 00:00:00	♃	08°40'01" ♄	-22°30'06"	00°38'58"	00°06'59"	11.000
12/01/2048 00:00:00	♃	10°51'35" ♃	08°13'48"	00°47'50"	-00°01'24"	17.645
12/01/2048 00:00:00	♃	18°53'38" ♄	15°43'43"	-01°46'30"	-00°00'34"	29.350
12/01/2048 00:00:00	♃	05°08'47" ♃	-20°51'54"	-12°07'37"	00°01'16"	41.664
12/01/2048 00:00:00	♁	06°45'02" ♄	-23°15'40"	00°00'00"	00°01'10"	0.002
12/01/2048 00:00:00	♃	10°00'00" ♃	-14°22'36"	00°27'24"	00°04'42"	8.938
12/01/2048 00:00:00	♁	27°45'53" ♄	22°46'12"	03°11'50"	00°06'40"	0.003
12/01/2048 00:00:00	♁	06°45'02" ♄	-23°15'40"	00°00'00"	00°01'10"	0.002
12/01/2048 00:00:00	♁	23°10'00" ♃	24°29'55" ♁	01°14'36"	-01°53'02"	0.003
12/01/2048 00:00:00	X	29°46'04" ♃	05°43'43"	-06°02'20"	-00°00'03"	93.017
12/01/2048 00:00:00	Y	16°03'54" ♃	11°31'33"	-11°14'06"	-00°00'31"	77.647
13/01/2048 00:00:00	♁	22°27'11" ♄	-21°33'48"	-00°00'00"	01°01'09"	0.984
13/01/2048 00:00:00	♃	18°47'24" ♄	-24°35'14" ♁	-01°37'58"	14°40'04"	0.002
13/01/2048 00:00:00	♆	11°26'06" ♁	-18°00'44"	-00°41'36"	01°02'48"	0.986

Ephemerides year 2048

13/01/2048 00:00:00	♀	19°02'51" ♄	-21°36'41"	01°22'28"	01°13'50"	1.298
13/01/2048 00:00:00	♂	09°09'44" ♃	-13°16'48"	01°20'02"	00°33'33"	1.634
13/01/2048 00:00:00	♃	15°41'08" ♄	15°33'38"	-01°00'52"	00°00'36"	4.536
13/01/2048 00:00:00	♃	08°47'00" ♄	-22°29'42"	00°38'55"	00°06'58"	10.997
13/01/2048 00:00:00	♃	10°50'09" ♃	08°14'22"	00°47'52"	-00°01'26"	17.632
13/01/2048 00:00:00	♀	18°53'04" ♄	15°43'37"	-01°46'27"	-00°00'32"	29.365
13/01/2048 00:00:00	♃	05°10'04" ♃	-20°51'15"	-12°07'27"	00°01'17"	41.676
13/01/2048 00:00:00	♃	06°46'05" ♄	-23°15'36"	00°00'00"	00°00'52"	0.002
13/01/2048 00:00:00	♃	10°04'39" ♃	-14°23'43"	00°27'46"	00°04'36"	8.923
13/01/2048 00:00:00	♃	27°52'33" ♄	22°47'03"	03°11'08"	00°06'40"	0.003
13/01/2048 00:00:00	T♃	06°46'05" ♄	-23°15'36"	00°00'00"	00°00'52"	0.002
13/01/2048 00:00:00	T♃	21°24'52" ♃	24°33'11" ♃	01°24'03"	-01°36'45"	0.003
13/01/2048 00:00:00	X	29°46'01" ♃	05°43'47"	-06°02'14"	-00°00'02"	93.034
13/01/2048 00:00:00	Y	16°03'23" ♃	11°31'36"	-11°14'00"	-00°00'31"	77.657
14/01/2048 00:00:00	♃	23°28'20" ♄	-21°23'36"	00°00'00"	01°01'09"	0.984
14/01/2048 00:00:00	♃	03°27'09" ♄	-23°41'40" ♃	-00°18'23"	14°38'21"	0.002
14/01/2048 00:00:00	♀	12°25'49" ♃	-17°31'35"	-00°28'35"	00°56'30"	0.959
14/01/2048 00:00:00	♀	20°16'43" ♄	-21°44'53"	01°19'56"	01°13'52"	1.304
14/01/2048 00:00:00	♂	09°43'15" ♃	-13°27'32"	01°19'52"	00°33'28"	1.624

Ephemerides year 2048

14/01/2048 00:00:00	♃	15°41'51" ♉	15°34'07"	-01°00'34"	00°00'48"	4.551
14/01/2048 00:00:00	♅	08°53'57" ♈	-22°29'17"	00°38'52"	00°06'57"	10.992
14/01/2048 00:00:00	♁	10°48'41" ♈	08°14'58"	00°47'55"	-00°01'29"	17.619
14/01/2048 00:00:00	♆	18°52'32" ♉	15°43'31"	-01°46'23"	-00°00'30"	29.381
14/01/2048 00:00:00	♁	05°11'23" ♈	-20°50'37"	-12°07'17"	00°01'18"	41.688
14/01/2048 00:00:00	♁	06°46'39" ♈	-23°15'35"	00°00'00"	00°00'12"	0.002
14/01/2048 00:00:00	♁	10°09'13" ♈	-14°24'48"	00°28'08"	00°04'30"	8.908
14/01/2048 00:00:00	♁	27°59'14" ♉	22°47'54"	03°10'27"	00°06'40"	0.003
14/01/2048 00:00:00	♁	06°46'39" ♈	-23°15'35"	00°00'00"	00°00'12"	0.002
14/01/2048 00:00:00	♁	19°53'34" ♈	24°34'44" ♁	01°32'06"	-01°28'44"	0.003
14/01/2048 00:00:00	X	29°45'59" ♈	05°43'52"	-06°02'08"	-00°00'02"	93.051
14/01/2048 00:00:00	Y	16°02'52" ♈	11°31'39"	-11°13'54"	-00°00'30"	77.667
15/01/2048 00:00:00	♁	24°29'29" ♈	-21°13'00"	00°00'00"	01°01'08"	0.984
15/01/2048 00:00:00	♁	18°01'56" ♈	-21°11'48"	01°01'51"	14°30'07"	0.002
15/01/2048 00:00:00	♁	13°18'49" ♈	-17°03'08"	-00°14'35"	00°49'20"	0.932
15/01/2048 00:00:00	♁	21°30'36" ♈	-21°52'28"	01°17'21"	01°13'54"	1.310
15/01/2048 00:00:00	♁	10°16'41" ♈	-13°38'10"	01°19'43"	00°33'23"	1.614
15/01/2048 00:00:00	♃	15°42'46" ♉	15°34'40"	-01°00'17"	00°01'01"	4.566
15/01/2048 00:00:00	♅	09°00'54" ♈	-22°28'52"	00°38'48"	00°06'56"	10.988

Ephemerides year 2048

15/01/2048 00:00:00	♃	10°47'10" ♃r	08°15'34"	00°47'57"	-00°01'32"	17.606
15/01/2048 00:00:00	♃	18°52'02" ♃r	15°43'27"	-01°46'20"	-00°00'28"	29.397
15/01/2048 00:00:00	♃	05°12'42" ♃	-20°49'58"	-12°07'08"	00°01'19"	41.700
15/01/2048 00:00:00	♃	06°46'24" ♃r	-23°15'35"	00°00'00"	-00°00'44"	0.002
15/01/2048 00:00:00	♃	10°13'41" ♃	-14°25'52"	00°28'30"	00°04'24"	8.892
15/01/2048 00:00:00	♃	28°05'55" ♃	22°48'45"	03°09'45"	00°06'40"	0.003
15/01/2048 00:00:00	♃	06°46'24" ♃r	-23°15'35"	00°00'00"	-00°00'44"	0.002
15/01/2048 00:00:00	♃	18°20'08" ♃r	24°35'05" ♃	01°40'11"	-01°42'00"	0.003
15/01/2048 00:00:00	X	29°45'57" ♃r	05°43'57"	-06°02'02"	-00°00'01"	93.068
15/01/2048 00:00:00	Y	16°02'22" ♃r	11°31'42"	-11°13'48"	-00°00'30"	77.677
16/01/2048 00:00:00	♃	25°30'37" ♃	-21°01'59"	00°00'00"	01°01'08"	0.984
16/01/2048 00:00:00	♃	02°25'20" ♃	-17°23'19"	02°17'03"	14°15'42"	0.002
16/01/2048 00:00:00	♃	14°04'13" ♃	-16°35'46"	00°00'23"	00°41'17"	0.905
16/01/2048 00:00:00	♃	22°44'31" ♃	-21°59'25"	01°14'44"	01°13'55"	1.315
16/01/2048 00:00:00	♃	10°50'02" ♃	-13°48'41"	01°19'33"	00°33'18"	1.604
16/01/2048 00:00:00	♃	15°43'54" ♃	15°35'16"	-00°59'59"	00°01'13"	4.581
16/01/2048 00:00:00	♃	09°07'50" ♃	-22°28'27"	00°38'45"	00°06'54"	10.983
16/01/2048 00:00:00	♃	10°45'36" ♃r	08°16'12"	00°47'59"	-00°01'35"	17.594
16/01/2048 00:00:00	♃	18°51'34" ♃r	15°43'23"	-01°46'16"	-00°00'26"	29.413



Ephemerides year 2048

16/01/2048 00:00:00	♁	05°14'02" ♈	-20°49'20"	-12°06'59"	00°01'20"	41.712
16/01/2048 00:00:00	♁	06°45'08" ♈	-23°15'39"	00°00'00"	-00°01'47"	0.002
16/01/2048 00:00:00	♁	10°18'03" ♉	-14°26'53"	00°28'52"	00°04'18"	8.877
16/01/2048 00:00:00	♁	28°12'35" ♉	22°49'35"	03°09'03"	00°06'40"	0.003
16/01/2048 00:00:00	♁	06°45'08" ♈	-23°15'39"	00°00'00"	-00°01'47"	0.002
16/01/2048 00:00:00	♁	16°22'35" ♉	24°33'46" ♀	01°50'10"	-02°15'45"	0.003
16/01/2048 00:00:00	X	29°45'55" ♈	05°44'03"	-06°01'56"	-00°00'00"	93.084
16/01/2048 00:00:00	Y	16°01'52" ♉	11°31'45"	-11°13'42"	-00°00'29"	77.687
17/01/2048 00:00:00	♁	26°31'45" ♈	-20°50'33"	00°00'00"	01°01'07"	0.984
17/01/2048 00:00:00	♁	16°31'41" ♁	-12°39'39"	03°22'14"	13°56'17"	0.002
17/01/2048 00:00:00	♁	14°41'06" ♁	-16°09'51"	00°16'17"	00°32'21"	0.878
17/01/2048 00:00:00	♁	23°58'28" ♈	-22°05'44"	01°12'05"	01°13'57"	1.321
17/01/2048 00:00:00	♁	11°23'17" ♉	-13°59'07"	01°19'22"	00°33'12"	1.594
17/01/2048 00:00:00	♁	15°45'14" ♉	15°35'56"	-00°59'42"	00°01'26"	4.597
17/01/2048 00:00:00	♁	09°14'44" ♈	-22°28'02"	00°38'42"	00°06'53"	10.979
17/01/2048 00:00:00	♁	10°44'00" ♉	08°16'50"	00°48'01"	-00°01'37"	17.582
17/01/2048 00:00:00	♁	18°51'09" ♉	15°43'19"	-01°46'13"	-00°00'24"	29.429
17/01/2048 00:00:00	♁	05°15'23" ♈	-20°48'41"	-12°06'50"	00°01'21"	41.723
17/01/2048 00:00:00	♁	06°42'52" ♈	-23°15'46"	00°00'00"	-00°02'41"	0.002

Ephemerides year 2048

17/01/2048 00:00:00	♄	10°22'18" ♍	-14°27'52"	00°29'14"	00°04'12"	8.862
17/01/2048 00:00:00	♁	28°19'16" ♉	22°50'25"	03°08'21"	00°06'40"	0.003
17/01/2048 00:00:00	♁♁	06°42'52" ♉	-23°15'46"	00°00'00"	-00°02'41"	0.002
17/01/2048 00:00:00	♁♁	13°45'52" ♉	24°29'07" ♁	02°03'15"	-02°57'31"	0.003
17/01/2048 00:00:00	X	29°45'55" ♉	05°44'08"	-06°01'50"	-00°00'00"	93.101
17/01/2048 00:00:00	Y	16°01'22" ♉	11°31'48"	-11°13'36"	-00°00'29"	77.698
18/01/2048 00:00:00	♁	27°32'53" ♉	-20°38'44"	00°00'00"	01°01'06"	0.984
18/01/2048 00:00:00	♁	00°16'50" ♉	-07°24'23"	04°13'54"	13°33'39"	0.003
18/01/2048 00:00:00	♁	15°08'38" ♉	-15°45'49"	00°33'00"	00°22'33"	0.852
18/01/2048 00:00:00	♁	25°12'26" ♉	-22°11'25"	01°09'24"	01°13'58"	1.326
18/01/2048 00:00:00	♁	11°56'28" ♉	-14°09'27"	01°19'11"	00°33'07"	1.584
18/01/2048 00:00:00	♁	15°46'46" ♉	15°36'39"	-00°59'24"	00°01'38"	4.612
18/01/2048 00:00:00	♁	09°21'37" ♉	-22°27'36"	00°38'39"	00°06'52"	10.973
18/01/2048 00:00:00	♁	10°42'20" ♉	08°17'30"	00°48'03"	-00°01'40"	17.570
18/01/2048 00:00:00	♁	18°50'45" ♉	15°43'16"	-01°46'09"	-00°00'22"	29.445
18/01/2048 00:00:00	♁	05°16'45" ♉	-20°48'02"	-12°06'41"	00°01'22"	41.734
18/01/2048 00:00:00	♁	06°39'51" ♉	-23°15'55"	00°00'00"	-00°03'16"	0.002
18/01/2048 00:00:00	♁	10°26'28" ♉	-14°28'49"	00°29'37"	00°04'06"	8.846
18/01/2048 00:00:00	♁	28°25'56" ♉	22°51'15"	03°07'39"	00°06'40"	0.003

Ephemerides year 2048

18/01/2048 00:00:00	T♄	06°39'51" ♏	-23°15'55"	00°00'00"	-00°03'16"	0.002
18/01/2048 00:00:00	T♄	10°31'15" ♏	24°18'50" ♁	02°19'08"	-03°28'16"	0.003
18/01/2048 00:00:00	X	29°45'55" ♏	05°44'14"	-06°01'44"	00°00'00"	93.118
18/01/2048 00:00:00	Y	16°00'54" ♏	11°31'52"	-11°13'30"	-00°00'28"	77.709
19/01/2048 00:00:00	☉	28°33'59" ♏	-20°26'32"	00°00'00"	01°01'06"	0.984
19/01/2048 00:00:00	☾	13°38'37" ♏	-01°57'49"	04°50'03"	13°09'52"	0.003
19/01/2048 00:00:00	♁	15°25'59" ♏	-15°24'04"	00°50'26"	00°12'00"	0.826
19/01/2048 00:00:00	♂	26°26'25" ♏	-22°16'26"	01°06'41"	01°13'59"	1.332
19/01/2048 00:00:00	♂	12°29'32" ♏	-14°19'41"	01°19'00"	00°33'01"	1.574
19/01/2048 00:00:00	♂	15°48'30" ♏	15°37'26"	-00°59'07"	00°01'50"	4.627
19/01/2048 00:00:00	♂	09°28'28" ♏	-22°27'10"	00°38'36"	00°06'50"	10.968
19/01/2048 00:00:00	♂	10°40'38" ♏	08°18'10"	00°48'05"	-00°01'43"	17.558
19/01/2048 00:00:00	♂	18°50'23" ♏	15°43'14"	-01°46'06"	-00°00'20"	29.461
19/01/2048 00:00:00	♂	05°18'07" ♏	-20°47'23"	-12°06'33"	00°01'23"	41.745
19/01/2048 00:00:00	♂	06°36'28" ♏	-23°16'06"	00°00'00"	-00°03'23"	0.002
19/01/2048 00:00:00	♂	10°30'32" ♏	-14°29'44"	00°29'59"	00°04'00"	8.831
19/01/2048 00:00:00	♂	28°32'37" ♏	22°52'04"	03°06'56"	00°06'40"	0.003
19/01/2048 00:00:00	T♄	06°36'28" ♏	-23°16'06"	00°00'00"	-00°03'23"	0.002
19/01/2048 00:00:00	T♄	06°58'26" ♏	24°01'55" ♁	02°36'01"	-03°32'08"	0.003

Ephemerides year 2048

19/01/2048 00:00:00	X	29°45'55" ♀	05°44'20"	-06°01'37"	00°00'00"	93.135
19/01/2048 00:00:00	Y	16°00'25" ♀	11°31'56"	-11°13'23"	-00°00'28"	77.720
20/01/2048 00:00:00	☉	29°35'05" ♀	-20°13'56"	00°00'00"	01°01'05"	0.984
20/01/2048 00:00:00	☾	26°36'54" ♀	03°23'52"	05°10'06"	12°46'57"	0.003
20/01/2048 00:00:00	♁	15°32'27" ♀	-15°05'00"	01°08'24"	00°00'51"	0.801
20/01/2048 00:00:00	♂	27°40'25" ♀	-22°20'49"	01°03'57"	01°14'00"	1.337
20/01/2048 00:00:00	♂	13°02'32" ♀	-14°29'48"	01°18'48"	00°32'56"	1.564
20/01/2048 00:00:00	♃	15°50'27" ♀	15°38'16"	-00°58'49"	00°02'02"	4.643
20/01/2048 00:00:00	♄	09°35'18" ♀	-22°26'44"	00°38'33"	00°06'49"	10.962
20/01/2048 00:00:00	♅	10°38'54" ♀	08°18'52"	00°48'07"	-00°01'45"	17.546
20/01/2048 00:00:00	♆	18°50'03" ♀	15°43'12"	-01°46'02"	-00°00'18"	29.477
20/01/2048 00:00:00	♇	05°19'31" ♀	-20°46'44"	-12°06'25"	00°01'24"	41.756
20/01/2048 00:00:00	♈	06°33'13" ♀	-23°16'15"	00°00'00"	-00°03'00"	0.002
20/01/2048 00:00:00	♉	10°34'29" ♀	-14°30'36"	00°30'21"	00°03'54"	8.815
20/01/2048 00:00:00	♊	28°39'17" ♀	22°52'52"	03°06'14"	00°06'40"	0.003
20/01/2048 00:00:00	T♋	06°33'13" ♀	-23°16'15"	00°00'00"	-00°03'00"	0.002
20/01/2048 00:00:00	T♌	03°36'59" ♀	23°40'34" ○	02°51'30"	-03°06'28"	0.003
20/01/2048 00:00:00	X	29°45'57" ♀	05°44'26"	-06°01'31"	00°00'01"	93.153
20/01/2048 00:00:00	Y	15°59'57" ♀	11°32'00"	-11°13'17"	-00°00'27"	77.731

Ephemerides year 2048

21/01/2048 00:00:00	☉	00°36'10" ♊	-20°00'58"	00°00'00"	01°01'04"	0.984
21/01/2048 00:00:00	☾	09°13'24" ♏	08°28'09"	05°14'26"	12°26'34"	0.003
21/01/2048 00:00:00	♀	15°27'33" ♊	-14°48'58"	01°26'40"	-00°10'42"	0.777
21/01/2048 00:00:00	♀	28°54'27" ♏	-22°24'32"	01°01'11"	01°14'02"	1.343
21/01/2048 00:00:00	♂	13°35'25" ♎	-14°39'50"	01°18'36"	00°32'50"	1.554
21/01/2048 00:00:00	♃	15°52'36" ♏	15°39'09"	-00°58'32"	00°02'14"	4.658
21/01/2048 00:00:00	♅	09°42'06" ♎	-22°26'18"	00°38'30"	00°06'47"	10.956
21/01/2048 00:00:00	♁	10°37'07" ♎	08°19'34"	00°48'09"	-00°01'48"	17.535
21/01/2048 00:00:00	♃	18°49'45" ♏	15°43'10"	-01°45'58"	-00°00'16"	29.494
21/01/2048 00:00:00	♁	05°20'55" ♏	-20°46'05"	-12°06'17"	00°01'24"	41.767
21/01/2048 00:00:00	♁	06°30'35" ♎	-23°16'23"	00°00'00"	-00°02'11"	0.002
21/01/2048 00:00:00	♃	10°38'20" ♎	-14°31'27"	00°30'44"	00°03'47"	8.799
21/01/2048 00:00:00	♁	28°45'57" ♏	22°53'41"	03°05'32"	00°06'40"	0.003
21/01/2048 00:00:00	♁	06°30'35" ♎	-23°16'23"	00°00'00"	-00°02'11"	0.002
21/01/2048 00:00:00	♁	00°51'35" ♎	23°19'16"	03°03'48"	-02°22'42"	0.003
21/01/2048 00:00:00	X	29°45'59" ♏	05°44'33"	-06°01'25"	00°00'02"	93.170
21/01/2048 00:00:00	Y	15°59'30" ♎	11°32'04"	-11°13'10"	-00°00'26"	77.742
22/01/2048 00:00:00	☉	01°37'14" ♊	-19°47'37"	00°00'00"	01°01'03"	0.984
22/01/2048 00:00:00	☾	21°31'18" ♏	13°05'01"	05°04'05"	12°09'57"	0.003

Ephemerides year 2048

22/01/2048 00:00:00	♀	15°11'00" ♍	-14°36'17"	01°44'59"	-00°22'22"	0.754
22/01/2048 00:00:00	♀	00°08'29" ♍	-22°27'35"	00°58'23"	01°14'03"	1.348
22/01/2048 00:00:00	♂	14°08'13" ♎	-14°49'45"	01°18'24"	00°32'45"	1.544
22/01/2048 00:00:00	♃	15°54'57" ♏	15°40'06"	-00°58'15"	00°02'26"	4.674
22/01/2048 00:00:00	♃	09°48'53" ♍	-22°25'51"	00°38'27"	00°06'45"	10.950
22/01/2048 00:00:00	♃	10°35'17" ♎	08°20'17"	00°48'11"	-00°01'50"	17.524
22/01/2048 00:00:00	♃	18°49'29" ♏	15°43'10"	-01°45'55"	-00°00'14"	29.510
22/01/2048 00:00:00	♃	05°22'21" ♏	-20°45'26"	-12°06'09"	00°01'25"	41.777
22/01/2048 00:00:00	♃	06°28'56" ♍	-23°16'28"	00°00'00"	-00°01'04"	0.002
22/01/2048 00:00:00	♃	10°42'05" ♎	-14°32'16"	00°31'07"	00°03'41"	8.784
22/01/2048 00:00:00	♃	28°52'38" ♏	22°54'28"	03°04'49"	00°06'40"	0.003
22/01/2048 00:00:00	T♃	06°28'56" ♍	-23°16'28"	00°00'00"	-00°01'04"	0.002
22/01/2048 00:00:00	T♃	28°52'08" ♏	23°01'49"	03°12'28"	-01°37'09"	0.003
22/01/2048 00:00:00	X	29°46'01" ♏	05°44'39"	-06°01'19"	00°00'03"	93.187
22/01/2048 00:00:00	Y	15°59'03" ♎	11°32'08"	-11°13'03"	-00°00'26"	77.754
23/01/2048 00:00:00	♁	02°38'18" ♍	-19°33'54"	00°00'00"	01°01'02"	0.984
23/01/2048 00:00:00	♂	03°34'50" ♏	17°05'48"	04°40'24"	11°57'54"	0.003
23/01/2048 00:00:00	♀	14°42'52" ♍	-14°27'11"	02°03'01"	-00°33'49"	0.734
23/01/2048 00:00:00	♀	01°22'33" ♍	-22°29'59"	00°55'34"	01°14'04"	1.354

Ephemerides year 2048

23/01/2048 00:00:00	♂	14°40'55" ♍	-14°59'34"	01°18'11"	00°32'39"	1.534
23/01/2048 00:00:00	♃	15°57'30" ♏	15°41'07"	-00°57'58"	00°02'38"	4.690
23/01/2048 00:00:00	♅	09°55'38" ♎	-22°25'24"	00°38'25"	00°06'44"	10.944
23/01/2048 00:00:00	♁	10°33'26" ♍	08°21'02"	00°48'13"	-00°01'52"	17.513
23/01/2048 00:00:00	♃	18°49'15" ♏	15°43'09"	-01°45'51"	-00°00'12"	29.527
23/01/2048 00:00:00	♁	05°23'47" ♋	-20°44'46"	-12°06'02"	00°01'26"	41.787
23/01/2048 00:00:00	♁	06°28'27" ♎	-23°16'29"	00°00'00"	00°00'06"	0.002
23/01/2048 00:00:00	♃	10°45'43" ♍	-14°33'02"	00°31'29"	00°03'35"	8.768
23/01/2048 00:00:00	♁	28°59'18" ♏	22°55'16"	03°04'07"	00°06'40"	0.003
23/01/2048 00:00:00	T♁	06°28'27" ♎	-23°16'29"	00°00'00"	00°00'06"	0.002
23/01/2048 00:00:00	T♁	27°33'34" ♏	22°49'27"	03°18'05"	-01°02'30"	0.003
23/01/2048 00:00:00	X	29°46'05" ♏	05°44'46"	-06°01'13"	00°00'03"	93.204
23/01/2048 00:00:00	Y	15°58'37" ♏	11°32'12"	-11°12'56"	-00°00'25"	77.766
24/01/2048 00:00:00	♁	03°39'20" ♎	-19°19'50"	00°00'00"	01°01'01"	0.984
24/01/2048 00:00:00	♃	15°28'48" ♏	20°22'25"	04°04'55"	11°50'50"	0.003
24/01/2048 00:00:00	♁	14°03'34" ♎	-14°21'47"	02°20'26"	-00°44'36"	0.715
24/01/2048 00:00:00	♀	02°36'38" ♎	-22°31'42"	00°52'44"	01°14'05"	1.359
24/01/2048 00:00:00	♂	15°13'32" ♍	-15°09'17"	01°17'57"	00°32'33"	1.524
24/01/2048 00:00:00	♃	16°00'15" ♏	15°42'10"	-00°57'41"	00°02'50"	4.705

Ephemerides year 2048

24/01/2048 00:00:00	♄	10°02'21" ♍	-22°24'56"	00°38'22"	00°06'42"	10.937
24/01/2048 00:00:00	♅	10°31'31" ♍♃	08°21'46"	00°48'14"	-00°01'55"	17.503
24/01/2048 00:00:00	♆	18°49'04" ♃♃	15°43'10"	-01°45'47"	-00°00'10"	29.544
24/01/2048 00:00:00	♁	05°25'14" ♃	-20°44'07"	-12°05'55"	00°01'27"	41.797
24/01/2048 00:00:00	♁	06°29'06" ♍	-23°16'27"	00°00'00"	00°01'07"	0.002
24/01/2048 00:00:00	♁	10°49'16" ♎♃	-14°33'46"	00°31'52"	00°03'29"	8.752
24/01/2048 00:00:00	♁	29°05'58" ♃♃	22°56'03"	03°03'24"	00°06'40"	0.003
24/01/2048 00:00:00	♁♁	06°29'06" ♍	-23°16'27"	00°00'00"	00°01'07"	0.002
24/01/2048 00:00:00	♁♁	26°41'15" ♃♃	22°40'51"	03°21'49"	-00°45'14"	0.003
24/01/2048 00:00:00	X	29°46'09" ♃	05°44'53"	-06°01'07"	00°00'04"	93.221
24/01/2048 00:00:00	Y	15°58'12" ♃♃	11°32'17"	-11°12'49"	-00°00'25"	77.778
25/01/2048 00:00:00	♁	04°40'21" ♃♃	-19°05'24"	00°00'00"	01°01'00"	0.984
25/01/2048 00:00:00	♁	27°18'11" ♃♃	22°46'59"	03°19'13"	11°48'46"	0.003
25/01/2048 00:00:00	♁	13°13'59" ♃♃	-14°20'05"	02°36'50"	-00°54'21"	0.699
25/01/2048 00:00:00	♁	03°50'45" ♍	-22°32'46"	00°49'53"	01°14'06"	1.364
25/01/2048 00:00:00	♁	15°46'02" ♎♃	-15°18'54"	01°17'43"	00°32'27"	1.514
25/01/2048 00:00:00	♁	16°03'12" ♃♃	15°43'17"	-00°57'24"	00°03'02"	4.721
25/01/2048 00:00:00	♄	10°09'02" ♍	-22°24'29"	00°38'19"	00°06'40"	10.930
25/01/2048 00:00:00	♅	10°29'35" ♍♃	08°22'32"	00°48'16"	-00°01'57"	17.492



Ephemerides year 2048

25/01/2048 00:00:00	♁	18°48'54" ♄	15°43'11"	-01°45'44"	-00°00'08"	29.560
25/01/2048 00:00:00	♁	05°26'42" ♃	-20°43'27"	-12°05'48"	00°01'28"	41.806
25/01/2048 00:00:00	♁	06°30'36" ♄	-23°16'23"	00°00'00"	00°01'47"	0.002
25/01/2048 00:00:00	♁	10°52'42" ♃	-14°34'29"	00°32'15"	00°03'22"	8.736
25/01/2048 00:00:00	♁	29°12'39" ♄	22°56'50"	03°02'41"	00°06'40"	0.003
25/01/2048 00:00:00	T♁	06°30'36" ♄	-23°16'23"	00°00'00"	00°01'47"	0.002
25/01/2048 00:00:00	T♁	25°56'51" ♄	22°33'17"	03°24'56"	-00°46'31"	0.003
25/01/2048 00:00:00	X	29°46'14" ♃	05°45'01"	-06°01'01"	00°00'05"	93.238
25/01/2048 00:00:00	Y	15°57'47" ♃	11°32'22"	-11°12'42"	-00°00'24"	77.790
26/01/2048 00:00:00	♁	05°41'22" ♃	-18°50'37"	00°00'00"	01°00'59"	0.984
26/01/2048 00:00:00	♁	09°07'57" ♃	24°12'09" ♁	02°25'02"	11°51'31"	0.003
26/01/2048 00:00:00	♁	12°15'21" ♃	-14°21'59"	02°51'51"	-01°02'37"	0.685
26/01/2048 00:00:00	♁	05°04'52" ♄	-22°33'09"	00°47'01"	01°14'07"	1.370
26/01/2048 00:00:00	♁	16°18'27" ♃	-15°28'24"	01°17'29"	00°32'21"	1.503
26/01/2048 00:00:00	♁	16°06'20" ♄	15°44'28"	-00°57'07"	00°03'14"	4.737
26/01/2048 00:00:00	♁	10°15'42" ♄	-22°24'01"	00°38'16"	00°06'38"	10.923
26/01/2048 00:00:00	♁	10°27'36" ♃	08°23'19"	00°48'18"	-00°01'59"	17.482
26/01/2048 00:00:00	♁	18°48'47" ♄	15°43'12"	-01°45'40"	-00°00'06"	29.577
26/01/2048 00:00:00	♁	05°28'10" ♃	-20°42'48"	-12°05'41"	00°01'28"	41.816

Ephemerides year 2048

26/01/2048 00:00:00	♏	06°32'29" ♁	-23°16'17"	00°00'00"	00°01'54"	0.002
26/01/2048 00:00:00	♋	10°56'01" ♎	-14°35'09"	00°32'38"	00°03'16"	8.721
26/01/2048 00:00:00	♌	29°19'19" ♄	22°57'36"	03°01'58"	00°06'40"	0.003
26/01/2048 00:00:00	♏	06°32'29" ♁	-23°16'17"	00°00'00"	00°01'54"	0.002
26/01/2048 00:00:00	♌	25°03'06" ♄	22°23'45"	03°28'36"	-01°02'55"	0.003
26/01/2048 00:00:00	X	29°46'19" ♃	05°45'08"	-06°00'54"	00°00'05"	93.254
26/01/2048 00:00:00	Y	15°57'23" ♀	11°32'26"	-11°12'35"	-00°00'23"	77.803
27/01/2048 00:00:00	♏	06°42'21" ♁	-18°35'30"	00°00'00"	01°00'58"	0.985
27/01/2048 00:00:00	♎	21°02'40" ♀	24°31'55" ○	01°24'15"	11°58'36"	0.003
27/01/2048 00:00:00	♌	11°09'21" ♄	-14°27'15"	03°05'06"	-01°09'03"	0.674
27/01/2048 00:00:00	♌	06°19'00" ♁	-22°32'51"	00°44'08"	01°14'08"	1.375
27/01/2048 00:00:00	♋	16°50'45" ♎	-15°37'49"	01°17'14"	00°32'15"	1.493
27/01/2048 00:00:00	♉	16°09'40" ♄	15°45'41"	-00°56'50"	00°03'26"	4.753
27/01/2048 00:00:00	♌	10°22'19" ♁	-22°23'33"	00°38'14"	00°06'36"	10.916
27/01/2048 00:00:00	♌	10°25'36" ♄	08°24'06"	00°48'19"	-00°02'01"	17.472
27/01/2048 00:00:00	♌	18°48'41" ♄	15°43'14"	-01°45'36"	-00°00'04"	29.594
27/01/2048 00:00:00	♌	05°29'39" ♃	-20°42'08"	-12°05'35"	00°01'29"	41.825
27/01/2048 00:00:00	♏	06°34'13" ♁	-23°16'12"	00°00'00"	00°01'26"	0.002
27/01/2048 00:00:00	♋	10°59'14" ♎	-14°35'47"	00°33'01"	00°03'09"	8.705

Ephemerides year 2048

27/01/2048 00:00:00	☾	29°25'59" ♎	22°58'22"	03°01'15"	00°06'40"	0.003
27/01/2048 00:00:00	♄	06°34'13" ♎	-23°16'12"	00°00'00"	00°01'26"	0.002
27/01/2048 00:00:00	♄	23°48'46" ♎	22°09'56"	03°33'28"	-01°25'46"	0.003
27/01/2048 00:00:00	X	29°46'25" ♎	05°45'16"	-06°00'48"	00°00'06"	93.271
27/01/2048 00:00:00	Y	15°57'00" ♎	11°32'31"	-11°12'27"	-00°00'23"	77.815
28/01/2048 00:00:00	☉	07°43'19" ♎	-18°20'03"	00°00'00"	01°00'57"	0.985
28/01/2048 00:00:00	♃	03°06'23" ♎	23°42'52" ♄	00°19'04"	12°09'21"	0.003
28/01/2048 00:00:00	♀	09°57'56" ♎	-14°35'31"	03°16'17"	-01°13'23"	0.666
28/01/2048 00:00:00	♀	07°33'09" ♎	-22°31'53"	00°41'14"	01°14'09"	1.380
28/01/2048 00:00:00	♂	17°22'58" ♎	-15°47'07"	01°16'58"	00°32'09"	1.483
28/01/2048 00:00:00	♃	16°13'12" ♎	15°46'58"	-00°56'33"	00°03'37"	4.769
28/01/2048 00:00:00	♃	10°28'55" ♎	-22°23'05"	00°38'11"	00°06'34"	10.908
28/01/2048 00:00:00	♃	10°23'33" ♎	08°24'54"	00°48'21"	-00°02'03"	17.463
28/01/2048 00:00:00	♃	18°48'38" ♎	15°43'17"	-01°45'32"	-00°00'02"	29.611
28/01/2048 00:00:00	♃	05°31'09" ♎	-20°41'28"	-12°05'29"	00°01'30"	41.833
28/01/2048 00:00:00	♄	06°35'10" ♎	-23°16'09"	00°00'00"	00°00'23"	0.002
28/01/2048 00:00:00	♃	11°02'21" ♎	-14°36'23"	00°33'24"	00°03'03"	8.689
28/01/2048 00:00:00	☾	29°32'40" ♎	22°59'08"	03°00'32"	00°06'40"	0.003
28/01/2048 00:00:00	♄	06°35'10" ♎	-23°16'09"	00°00'00"	00°00'23"	0.002

Ephemerides year 2048

28/01/2048 00:00:00	T♄	22°14'09" ♂	21°51'19"	03°39'25"	-01°40'44"	0.003
28/01/2048 00:00:00	X	29°46'32" ♀	05°45'24"	-06°00'42"	00°00'07"	93.288
28/01/2048 00:00:00	Y	15°56'37" ♀	11°32'37"	-11°12'20"	-00°00'22"	77.828
29/01/2048 00:00:00	☉	08°44'17" ♁	-18°04'15"	-00°00'00"	01°00'56"	0.985
29/01/2048 00:00:00	☾	15°22'20" ♁	21°45'13"	-00°47'56"	12°22'54"	0.003
29/01/2048 00:00:00	♀	08°43'19" ♁	-14°46'23"	03°25'09"	-01°15'29"	0.660
29/01/2048 00:00:00	♀	08°47'19" ♁	-22°30'15"	00°38'20"	01°14'10"	1.385
29/01/2048 00:00:00	♂	17°55'04" ♁	-15°56'18"	01°16'42"	00°32'02"	1.473
29/01/2048 00:00:00	♃	16°16'56" ♂	15°48'18"	-00°56'17"	00°03'48"	4.785
29/01/2048 00:00:00	♃	10°35'29" ♁	-22°22'36"	00°38'09"	00°06'32"	10.901
29/01/2048 00:00:00	♃	10°21'28" ♁	08°25'43"	00°48'23"	-00°02'05"	17.454
29/01/2048 00:00:00	♃	18°48'37" ♂	15°43'20"	-01°45'29"	-00°00'00"	29.628
29/01/2048 00:00:00	♃	05°32'40" ♁	-20°40'49"	-12°05'23"	00°01'30"	41.842
29/01/2048 00:00:00	♃	06°34'51" ♁	-23°16'10"	00°00'00"	-00°01'05"	0.002
29/01/2048 00:00:00	♃	11°05'21" ♁	-14°36'57"	00°33'47"	00°02'56"	8.673
29/01/2048 00:00:00	♃	29°39'20" ♂	22°59'53"	02°59'49"	00°06'40"	0.003
29/01/2048 00:00:00	T♄	06°34'51" ♁	-23°16'10"	00°00'00"	-00°01'05"	0.002
29/01/2048 00:00:00	T♄	20°35'35" ♂	21°30'43"	03°45'17"	-01°31'00"	0.003
29/01/2048 00:00:00	X	29°46'40" ♀	05°45'33"	-06°00'36"	00°00'07"	93.305

Ephemerides year 2048

29/01/2048 00:00:00	Y	15°56'15" ♀	11°32'42"	-11°12'12"	-00°00'21"	77.841
30/01/2048 00:00:00	☉	09°45'13" ♋	-17°48'09"	-00°00'00"	01°00'55"	0.985
30/01/2048 00:00:00	☾	27°52'49" ♎	18°43'13"	-01°53'50"	12°38'15"	0.003
30/01/2048 00:00:00	♁	07°27'43" ♋	-14°59'21"	03°31'33"	-01°15'20"	0.658
30/01/2048 00:00:00	♂	10°01'31" ♌	-22°27'56"	00°35'26"	01°14'11"	1.390
30/01/2048 00:00:00	♂	18°27'04" ♍	-16°05'24"	01°16'26"	00°31'56"	1.463
30/01/2048 00:00:00	♃	16°20'50" ♈	15°49'41"	-00°56'00"	00°04'00"	4.801
30/01/2048 00:00:00	♅	10°42'00" ♌	-22°22'08"	00°38'06"	00°06'30"	10.893
30/01/2048 00:00:00	♁	10°19'21" ♋	08°26'32"	00°48'24"	-00°02'07"	17.445
30/01/2048 00:00:00	♁	18°48'38" ♈	15°43'24"	-01°45'25"	00°00'01"	29.645
30/01/2048 00:00:00	♃	05°34'11" ♈	-20°40'09"	-12°05'18"	00°01'31"	41.850
30/01/2048 00:00:00	♁	06°32'54" ♌	-23°16'16"	00°00'00"	-00°02'48"	0.003
30/01/2048 00:00:00	♁	11°08'15" ♍	-14°37'28"	00°34'10"	00°02'50"	8.657
30/01/2048 00:00:00	♁	29°46'01" ♈	23°00'38"	02°59'06"	00°06'40"	0.003
30/01/2048 00:00:00	T♁	06°32'54" ♌	-23°16'16"	00°00'00"	-00°02'48"	0.003
30/01/2048 00:00:00	T♁	19°24'11" ♈	21°14'52"	03°49'09"	-00°45'33"	0.003
30/01/2048 00:00:00	X	29°46'48" ♈	05°45'41"	-06°00'30"	00°00'08"	93.322
30/01/2048 00:00:00	Y	15°55'53" ♀	11°32'48"	-11°12'05"	-00°00'21"	77.854
31/01/2048 00:00:00	☉	10°46'08" ♋	-17°31'43"	-00°00'00"	01°00'54"	0.985

Ephemerides year 2048

31/01/2048 00:00:00	♃	10°39'05" ♁	14°44'50"	-02°55'17"	12°54'16"	0.003
31/01/2048 00:00:00	♆	06°13'21" ♁	-15°13'55"	03°35'26"	-01°13'03"	0.657
31/01/2048 00:00:00	♀	11°15'43" ♁	-22°24'57"	00°32'31"	01°14'12"	1.395
31/01/2048 00:00:00	♂	18°58'57" ♃	-16°14'22"	01°16'09"	00°31'49"	1.453
31/01/2048 00:00:00	♂	16°24'56" ♁	15°51'06"	-00°55'43"	00°04'11"	4.817
31/01/2048 00:00:00	♃	10°48'29" ♁	-22°21'39"	00°38'04"	00°06'27"	10.884
31/01/2048 00:00:00	♃	10°17'12" ♃	08°27'23"	00°48'26"	-00°02'09"	17.436
31/01/2048 00:00:00	♃	18°48'41" ♁	15°43'29"	-01°45'21"	00°00'03"	29.662
31/01/2048 00:00:00	♃	05°35'43" ♃	-20°39'30"	-12°05'12"	00°01'32"	41.858
31/01/2048 00:00:00	♁	06°29'15" ♁	-23°16'27"	00°00'00"	-00°04'27"	0.003
31/01/2048 00:00:00	♃	11°11'02" ♃	-14°37'58"	00°34'34"	00°02'43"	8.641
31/01/2048 00:00:00	♁	29°52'41" ♁	23°01'23"	02°58'23"	00°06'40"	0.003
31/01/2048 00:00:00	T♁	06°29'15" ♁	-23°16'27"	00°00'00"	-00°04'27"	0.003
31/01/2048 00:00:00	T♁	19°15'43" ♁	21°12'22"	03°48'59"	00°33'13"	0.003
31/01/2048 00:00:00	X	29°46'57" ♃	05°45'50"	-06°00'24"	00°00'09"	93.339
31/01/2048 00:00:00	Y	15°55'32" ♃	11°32'53"	-11°11'57"	-00°00'20"	77.868
01/02/2048 00:00:00	♁	11°47'02" ♁	-17°14'58"	-00°00'00"	01°00'53"	0.985
01/02/2048 00:00:00	♃	23°41'16" ♁	10°01'04"	-03°48'48"	13°09'56"	0.003
01/02/2048 00:00:00	♆	05°02'13" ♁	-15°29'36"	03°36'50"	-01°08'55"	0.660

Ephemerides year 2048

01/02/2048 00:00:00	♀	12°29'56" ♍	-22°21'17"	00°29'36"	01°14'13"	1.401
01/02/2048 00:00:00	♂	19°30'43" ♎	-16°23'15"	01°15'51"	00°31'43"	1.443
01/02/2048 00:00:00	♃	16°29'13" ♏	15°52'35"	-00°55'27"	00°04'22"	4.833
01/02/2048 00:00:00	♅	10°54'56" ♍	-22°21'10"	00°38'01"	00°06'25"	10.876
01/02/2048 00:00:00	♁	10°15'01" ♎	08°28'13"	00°48'27"	-00°02'11"	17.427
01/02/2048 00:00:00	♃	18°48'46" ♏	15°43'34"	-01°45'17"	00°00'06"	29.680
01/02/2048 00:00:00	♅	05°37'16" ♁	-20°38'50"	-12°05'08"	00°01'32"	41.866
01/02/2048 00:00:00	♄	06°24'07" ♍	-23°16'42"	00°00'00"	-00°05'45"	0.003
01/02/2048 00:00:00	♃	11°13'42" ♎	-14°38'25"	00°34'57"	00°02'36"	8.626
01/02/2048 00:00:00	♁	29°59'21" ♏	23°02'07"	02°57'39"	00°06'40"	0.003
01/02/2048 00:00:00	T♄	06°24'07" ♍	-23°16'42"	00°00'00"	-00°05'45"	0.003
01/02/2048 00:00:00	T♁	20°36'51" ♏	21°29'05"	03°43'13"	02°10'31"	0.003
01/02/2048 00:00:00	X	29°47'06" ♁	05°45'59"	-06°00'18"	00°00'09"	93.355
01/02/2048 00:00:00	Y	15°55'12" ♁	11°32'59"	-11°11'49"	-00°00'19"	77.881
02/02/2048 00:00:00	☾	12°47'56" ♎	-16°57'56"	-00°00'00"	01°00'52"	0.985
02/02/2048 00:00:00	♃	06°58'31" ♎	04°44'59"	-04°30'59"	13°24'17"	0.003
02/02/2048 00:00:00	♁	03°56'02" ♎	-15°45'57"	03°35'54"	-01°03'13"	0.664
02/02/2048 00:00:00	♀	13°44'10" ♍	-22°16'57"	00°26'41"	01°14'14"	1.406
02/02/2048 00:00:00	♂	20°02'23" ♎	-16°32'01"	01°15'33"	00°31'36"	1.432

Ephemerides year 2048

02/02/2048 00:00:00	♃	16°33'41" ♂	15°54'07"	-00°55'11"	00°04'33"	4.849
02/02/2048 00:00:00	♅	11°01'20" ♀	-22°20'41"	00°37'59"	00°06'23"	10.867
02/02/2048 00:00:00	♁	10°12'48" ♃	08°29'05"	00°48'29"	-00°02'13"	17.419
02/02/2048 00:00:00	♆	18°48'53" ♂	15°43'39"	-01°45'14"	00°00'08"	29.697
02/02/2048 00:00:00	♁	05°38'49" ♀	-20°38'11"	-12°05'03"	00°01'33"	41.874
02/02/2048 00:00:00	♁	06°17'58" ♀	-23°17'00"	00°00'00"	-00°06'25"	0.003
02/02/2048 00:00:00	♁	11°16'16" ♃	-14°38'50"	00°35'21"	00°02'30"	8.610
02/02/2048 00:00:00	♁	00°06'01" ♀	23°02'51"	02°56'56"	00°06'40"	0.003
02/02/2048 00:00:00	♁	06°17'58" ♀	-23°17'00"	00°00'00"	-00°06'25"	0.003
02/02/2048 00:00:00	♁	23°36'20" ♂	22°04'19"	03°30'56"	03°46'32"	0.003
02/02/2048 00:00:00	X	29°47'16" ♀	05°46'08"	-06°00'12"	00°00'10"	93.372
02/02/2048 00:00:00	Y	15°54'53" ♀	11°33'05"	-11°11'41"	-00°00'19"	77.895
03/02/2048 00:00:00	♁	13°48'48" ♀	-16°40'35"	-00°00'00"	01°00'51"	0.985
03/02/2048 00:00:00	♁	20°29'13" ♃	-00°48'46"	-04°58'51"	13°36'44"	0.003
03/02/2048 00:00:00	♁	02°56'11" ♀	-16°02'34"	03°32'49"	-00°56'19"	0.671
03/02/2048 00:00:00	♁	14°58'24" ♀	-22°11'56"	00°23'45"	01°14'15"	1.411
03/02/2048 00:00:00	♁	20°33'56" ♃	-16°40'40"	01°15'15"	00°31'29"	1.422
03/02/2048 00:00:00	♃	16°38'20" ♂	15°55'42"	-00°54'54"	00°04'44"	4.865
03/02/2048 00:00:00	♅	11°07'42" ♀	-22°20'12"	00°37'57"	00°06'20"	10.858



Ephemerides year 2048

03/02/2048 00:00:00	♃	10°10'34" ♏r	08°29'57"	00°48'30"	-00°02'15"	17.411
03/02/2048 00:00:00	♃	18°49'02" ♏	15°43'45"	-01°45'10"	00°00'10"	29.714
03/02/2048 00:00:00	♃	05°40'22" ♏	-20°37'31"	-12°04'58"	00°01'33"	41.881
03/02/2048 00:00:00	♃	06°11'32" ♏r	-23°17'18"	00°00'00"	-00°06'18"	0.002
03/02/2048 00:00:00	♃	11°18'42" ♏	-14°39'13"	00°35'44"	00°02'23"	8.594
03/02/2048 00:00:00	♃	00°12'41" ♏	23°03'35"	02°56'12"	00°06'40"	0.003
03/02/2048 00:00:00	T♏	06°11'32" ♏r	-23°17'18"	00°00'00"	-00°06'18"	0.002
03/02/2048 00:00:00	T♃	28°02'54" ♏	22°50'17"	03°12'01"	05°01'29"	0.003
03/02/2048 00:00:00	X	29°47'27" ♏	05°46'17"	-06°00'06"	00°00'10"	93.388
03/02/2048 00:00:00	Y	15°54'34" ♏r	11°33'11"	-11°11'33"	-00°00'18"	77.909
04/02/2048 00:00:00	♃	14°49'39" ♏	-16°22'57"	-00°00'00"	01°00'50"	0.986
04/02/2048 00:00:00	♃	04°11'16" ♏	-06°24'23"	-05°10'07"	13°46'59"	0.003
04/02/2048 00:00:00	♃	02°03'40" ♏r	-16°19'06"	03°27'49"	-00°48'35"	0.679
04/02/2048 00:00:00	♃	16°12'40" ♏	-22°06'16"	00°20'51"	01°14'16"	1.416
04/02/2048 00:00:00	♃	21°05'22" ♏	-16°49'14"	01°14'56"	00°31'22"	1.412
04/02/2048 00:00:00	♃	16°43'09" ♏	15°57'20"	-00°54'38"	00°04'55"	4.881
04/02/2048 00:00:00	♃	11°14'02" ♏	-22°19'43"	00°37'54"	00°06'18"	10.849
04/02/2048 00:00:00	♃	10°08'17" ♏r	08°30'50"	00°48'31"	-00°02'17"	17.403
04/02/2048 00:00:00	♃	18°49'13" ♏	15°43'52"	-01°45'06"	00°00'12"	29.731

Ephemerides year 2048

04/02/2048 00:00:00	♁	05°41'56" ♈	-20°36'52"	-12°04'54"	00°01'34"	41.888
04/02/2048 00:00:00	♁	06°05'37" ♈	-23°17'34"	00°00'00"	-00°05'23"	0.002
04/02/2048 00:00:00	♁	11°21'02" ♎	-14°39'34"	00°36'08"	00°02'16"	8.578
04/02/2048 00:00:00	♁	00°19'21" ♀	23°04'18"	02°55'29"	00°06'40"	0.003
04/02/2048 00:00:00	♁	06°05'37" ♈	-23°17'34"	00°00'00"	-00°05'23"	0.002
04/02/2048 00:00:00	♁	03°25'58" ♀	23°34'47" ♁	02°47'46"	05°36'33"	0.003
04/02/2048 00:00:00	X	29°47'38" ♀	05°46'27"	-06°00'00"	00°00'11"	93.405
04/02/2048 00:00:00	Y	15°54'15" ♀	11°33'18"	-11°11'25"	-00°00'17"	77.923
05/02/2048 00:00:00	♁	15°50'30" ♁	-16°05'01"	-00°00'00"	01°00'50"	0.986
05/02/2048 00:00:00	♁	18°02'30" ♁	-11°44'50"	-05°03'33"	13°55'07"	0.003
05/02/2048 00:00:00	♁	01°19'11" ♁	-16°35'17"	03°21'09"	-00°40'20"	0.690
05/02/2048 00:00:00	♁	17°26'57" ♈	-21°59'55"	00°17'56"	01°14'17"	1.421
05/02/2048 00:00:00	♁	21°36'41" ♎	-16°57'40"	01°14'36"	00°31'15"	1.402
05/02/2048 00:00:00	♁	16°48'10" ♈	15°59'01"	-00°54'22"	00°05'05"	4.898
05/02/2048 00:00:00	♁	11°20'19" ♈	-22°19'13"	00°37'52"	00°06'15"	10.840
05/02/2048 00:00:00	♁	10°05'59" ♎	08°31'44"	00°48'33"	-00°02'18"	17.396
05/02/2048 00:00:00	♁	18°49'26" ♈	15°43'59"	-01°45'02"	00°00'14"	29.749
05/02/2048 00:00:00	♁	05°43'31" ♈	-20°36'12"	-12°04'51"	00°01'34"	41.895
05/02/2048 00:00:00	♁	06°00'58" ♈	-23°17'47"	00°00'00"	-00°03'49"	0.002

Ephemerides year 2048

05/02/2048 00:00:00	♁	11°23'16" ♍	-14°39'52"	00°36'32"	00°02'09"	8.562
05/02/2048 00:00:00	♁	00°26'02" ♍	23°05'00"	02°54'45"	00°06'40"	0.003
05/02/2048 00:00:00	♁	06°00'58" ♍	-23°17'47"	00°00'00"	-00°03'49"	0.002
05/02/2048 00:00:00	♁	08°57'45" ♍	24°07'01" ♁	02°21'27"	05°17'20"	0.003
05/02/2048 00:00:00	X	29°47'50" ♁	05°46'37"	-05°59'54"	00°00'12"	93.421
05/02/2048 00:00:00	Y	15°53'58" ♁	11°33'24"	-11°11'17"	-00°00'17"	77.937
06/02/2048 00:00:00	♁	16°51'20" ♍	-15°46'49"	-00°00'00"	01°00'49"	0.986
06/02/2048 00:00:00	♁	02°00'54" ♍	-16°31'49"	-04°39'02"	14°01'25"	0.002
06/02/2048 00:00:00	♀	00°43'04" ♍	-16°50'52"	03°13'06"	-00°31'51"	0.701
06/02/2048 00:00:00	♀	18°41'14" ♍	-21°52'55"	00°15'02"	01°14'18"	1.426
06/02/2048 00:00:00	♂	22°07'52" ♍	-17°06'00"	01°14'16"	00°31'07"	1.392
06/02/2048 00:00:00	♂	16°53'21" ♍	16°00'44"	-00°54'06"	00°05'16"	4.914
06/02/2048 00:00:00	♂	11°26'33" ♍	-22°18'44"	00°37'50"	00°06'13"	10.830
06/02/2048 00:00:00	♂	10°03'40" ♍	08°32'37"	00°48'34"	-00°02'20"	17.389
06/02/2048 00:00:00	♂	18°49'42" ♍	15°44'07"	-01°44'59"	00°00'16"	29.766
06/02/2048 00:00:00	♂	05°45'06" ♍	-20°35'33"	-12°04'47"	00°01'35"	41.901
06/02/2048 00:00:00	♂	05°58'04" ♍	-23°17'55"	00°00'00"	-00°01'58"	0.002
06/02/2048 00:00:00	♁	11°25'22" ♍	-14°40'08"	00°36'56"	00°02'03"	8.546
06/02/2048 00:00:00	♁	00°32'42" ♍	23°05'42"	02°54'01"	00°06'40"	0.003

Ephemerides year 2048

06/02/2048 00:00:00	T♄	05°58'04" ♉	-23°17'55"	00°00'00"	-00°01'58"	0.002
06/02/2048 00:00:00	T♄	13°42'40" ♉	24°23'22" ♁	01°57'50"	04°05'10"	0.003
06/02/2048 00:00:00	X	29°48'03" ♉	05°46'47"	-05°59'48"	00°00'12"	93.438
06/02/2048 00:00:00	Y	15°53'41" ♉	11°33'31"	-11°11'09"	-00°00'16"	77.951
07/02/2048 00:00:00	☉	17°52'09" ♋	-15°28'21"	-00°00'00"	01°00'48"	0.986
07/02/2048 00:00:00	☾	16°04'51" ♋	-20°26'07"	-03°57'38"	14°06'13"	0.002
07/02/2048 00:00:00	☿	00°15'27" ♋	-17°05'41"	03°03'53"	-00°23'24"	0.714
07/02/2048 00:00:00	♀	19°55'33" ♉	-21°45'15"	00°12'08"	01°14'18"	1.431
07/02/2048 00:00:00	♂	22°38'56" ♋	-17°14'13"	01°13'55"	00°31'00"	1.382
07/02/2048 00:00:00	♃	16°58'43" ♉	16°02'30"	-00°53'50"	00°05'27"	4.930
07/02/2048 00:00:00	♅	11°32'45" ♉	-22°18'14"	00°37'48"	00°06'10"	10.820
07/02/2048 00:00:00	♁	10°01'18" ♋	08°33'32"	00°48'35"	-00°02'21"	17.382
07/02/2048 00:00:00	♂	18°49'59" ♉	15°44'15"	-01°44'55"	00°00'18"	29.783
07/02/2048 00:00:00	♁	05°46'42" ♋	-20°34'54"	-12°04'44"	00°01'35"	41.907
07/02/2048 00:00:00	♁	05°57'00" ♉	-23°17'58"	00°00'00"	-00°00'12"	0.002
07/02/2048 00:00:00	♁	11°27'22" ♋	-14°40'22"	00°37'20"	00°01'56"	8.530
07/02/2048 00:00:00	♁	00°39'22" ♉	23°06'24"	02°53'17"	00°06'40"	0.003
07/02/2048 00:00:00	T♄	05°57'00" ♉	-23°17'58"	00°00'00"	-00°00'12"	0.002
07/02/2048 00:00:00	T♄	16°59'42" ♉	24°28'28" ♁	01°41'05"	02°28'31"	0.003

Ephemerides year 2048

07/02/2048 00:00:00	X	29°48'16" ♀	05°46'57"	-05°59'42"	00°00'13"	93.454
07/02/2048 00:00:00	Y	15°53'25" ♀	11°33'37"	-11°11'01"	-00°00'15"	77.966
08/02/2048 00:00:00	☉	18°52'57" ♁	-15°09'36"	-00°00'00"	01°00'47"	0.986
08/02/2048 00:00:00	☾	00°12'55" ♀	-23°08'56"	-03°01'39"	14°09'42"	0.002
08/02/2048 00:00:00	♁	29°56'12" ♁	-17°19'35"	02°53'46"	-00°15'07"	0.727
08/02/2048 00:00:00	♂	21°09'52" ♁	-21°36'57"	00°09'15"	01°14'19"	1.435
08/02/2048 00:00:00	♂	23°09'53" ♁	-17°22'20"	01°13'34"	00°30'52"	1.371
08/02/2048 00:00:00	♂	17°04'15" ♁	16°04'19"	-00°53'34"	00°05'37"	4.946
08/02/2048 00:00:00	♂	11°38'55" ♁	-22°17'44"	00°37'46"	00°06'07"	10.810
08/02/2048 00:00:00	♂	09°58'56" ♁	08°34'27"	00°48'36"	-00°02'23"	17.376
08/02/2048 00:00:00	♂	18°50'19" ♁	15°44'24"	-01°44'51"	00°00'20"	29.801
08/02/2048 00:00:00	♂	05°48'18" ♁	-20°34'15"	-12°04'41"	00°01'36"	41.913
08/02/2048 00:00:00	♂	05°57'27" ♁	-23°17'57"	00°00'00"	00°00'59"	0.002
08/02/2048 00:00:00	♂	11°29'15" ♁	-14°40'34"	00°37'44"	00°01'49"	8.515
08/02/2048 00:00:00	♂	00°46'02" ♁	23°07'06"	02°52'33"	00°06'40"	0.003
08/02/2048 00:00:00	T♂	05°57'27" ♁	-23°17'57"	00°00'00"	00°00'59"	0.002
08/02/2048 00:00:00	T♂	18°46'33" ♁	24°29'08" ○	01°31'55"	01°11'53"	0.003
08/02/2048 00:00:00	X	29°48'30" ♀	05°47'07"	-05°59'36"	00°00'14"	93.470
08/02/2048 00:00:00	Y	15°53'10" ♀	11°33'44"	-11°10'52"	-00°00'14"	77.981

Ephemerides year 2048

09/02/2048 00:00:00	☉	19°53'44" ♍	-14°50'36"	-00°00'00"	01°00'46"	0.986
09/02/2048 00:00:00	☾	14°23'47" ♋	-24°24'51" ○	-01°54'22"	14°11'45"	0.002
09/02/2048 00:00:00	♁	29°45'05" ♎	-17°32'29"	02°42'57"	-00°07'10"	0.742
09/02/2048 00:00:00	♂	22°24'12" ♎	-21°27'59"	00°06'23"	01°14'20"	1.440
09/02/2048 00:00:00	♂	23°40'41" ♎	-17°30'20"	01°13'12"	00°30'44"	1.361
09/02/2048 00:00:00	♃	17°09'58" ♉	16°06'11"	-00°53'18"	00°05'48"	4.962
09/02/2048 00:00:00	♄	11°45'01" ♎	-22°17'14"	00°37'44"	00°06'05"	10.800
09/02/2048 00:00:00	♅	09°56'32" ♎	08°35'22"	00°48'37"	-00°02'24"	17.369
09/02/2048 00:00:00	♆	18°50'41" ♉	15°44'34"	-01°44'47"	00°00'22"	29.818
09/02/2048 00:00:00	♇	05°49'55" ♉	-20°33'36"	-12°04'38"	00°01'36"	41.919
09/02/2048 00:00:00	♁	05°58'43" ♎	-23°17'53"	00°00'00"	00°01'21"	0.002
09/02/2048 00:00:00	♂	11°31'01" ♎	-14°40'44"	00°38'08"	00°01'42"	8.499
09/02/2048 00:00:00	♁	00°52'42" ♉	23°07'47"	02°51'49"	00°06'40"	0.003
09/02/2048 00:00:00	♁	05°58'43" ♎	-23°17'53"	00°00'00"	00°01'21"	0.002
09/02/2048 00:00:00	♁	19°38'18" ♉	24°28'57" ○	01°27'29"	00°39'01"	0.003
09/02/2048 00:00:00	X	29°48'45" ♎	05°47'18"	-05°59'30"	00°00'15"	93.486
09/02/2048 00:00:00	Y	15°52'55" ♎	11°33'51"	-11°10'44"	-00°00'14"	77.995
10/02/2048 00:00:00	☉	20°54'30" ♍	-14°31'21"	-00°00'00"	01°00'45"	0.987
10/02/2048 00:00:00	☾	28°35'49" ♋	-24°05'33" ○	-00°40'00"	14°11'55"	0.002

Ephemerides year 2048

10/02/2048 00:00:00	♀	29°41'43" ♁	-17°44'16"	02°31'37"	00°00'23"	0.757
10/02/2048 00:00:00	♀	23°38'33" ♁	-21°18'23"	00°03'32"	01°14'21"	1.445
10/02/2048 00:00:00	♂	24°11'21" ♃	-17°38'14"	01°12'49"	00°30'35"	1.351
10/02/2048 00:00:00	♃	17°15'51" ♁	16°08'05"	-00°53'03"	00°05'58"	4.978
10/02/2048 00:00:00	♃	11°51'05" ♁	-22°16'44"	00°37'42"	00°06'02"	10.790
10/02/2048 00:00:00	♃	09°54'07" ♃	08°36'18"	00°48'39"	-00°02'25"	17.363
10/02/2048 00:00:00	♃	18°51'05" ♁	15°44'44"	-01°44'44"	00°00'24"	29.835
10/02/2048 00:00:00	♃	05°51'32" ♃	-20°32'57"	-12°04'36"	00°01'37"	41.924
10/02/2048 00:00:00	♃	05°59'50" ♁	-23°17'50"	00°00'00"	00°00'43"	0.002
10/02/2048 00:00:00	♃	11°32'40" ♃	-14°40'51"	00°38'32"	00°01'35"	8.483
10/02/2048 00:00:00	♃	00°59'23" ♃	23°08'28"	02°51'05"	00°06'40"	0.003
10/02/2048 00:00:00	T♃	05°59'50" ♁	-23°17'50"	00°00'00"	00°00'43"	0.002
10/02/2048 00:00:00	T♃	20°15'06" ♃	24°28'33" ♃	01°24'17"	00°37'17"	0.003
10/02/2048 00:00:00	X	29°49'00" ♃	05°47'28"	-05°59'24"	00°00'15"	93.502
10/02/2048 00:00:00	Y	15°52'42" ♃	11°33'58"	-11°10'35"	-00°00'13"	78.010
11/02/2048 00:00:00	♃	21°55'15" ♃	-14°11'51"	00°00'00"	01°00'44"	0.987
11/02/2048 00:00:00	♃	12°46'47" ♁	-22°12'43"	00°36'37"	14°09'30"	0.002
11/02/2048 00:00:00	♀	29°45'42" ♁	-17°54'54"	02°19'54"	00°07'29"	0.773
11/02/2048 00:00:00	♀	24°52'54" ♁	-21°08'08"	00°00'42"	01°14'21"	1.450

Ephemerides year 2048

11/02/2048 00:00:00	♂	24°41'53" ♍	-17°46'01"	01°12'26"	00°30'27"	1.341
11/02/2048 00:00:00	♃	17°21'55" ♏	16°10'02"	-00°52'47"	00°06'08"	4.994
11/02/2048 00:00:00	♅	11°57'05" ♐	-22°16'14"	00°37'40"	00°05'59"	10.779
11/02/2048 00:00:00	♁	09°51'40" ♋	08°37'14"	00°48'40"	-00°02'27"	17.358
11/02/2048 00:00:00	♆	18°51'31" ♏	15°44'55"	-01°44'40"	00°00'26"	29.853
11/02/2048 00:00:00	♁	05°53'09" ♋	-20°32'18"	-12°04'34"	00°01'37"	41.929
11/02/2048 00:00:00	♁	05°59'51" ♏	-23°17'50"	00°00'00"	-00°00'50"	0.002
11/02/2048 00:00:00	♃	11°34'12" ♍	-14°40'57"	00°38'57"	00°01'28"	8.468
11/02/2048 00:00:00	♁	01°06'03" ♋	23°09'08"	02°50'21"	00°06'40"	0.003
11/02/2048 00:00:00	♁♁	05°59'51" ♏	-23°17'50"	00°00'00"	-00°00'50"	0.002
11/02/2048 00:00:00	♁♁	20°53'26" ♋	24°27'49" ♁	01°20'47"	00°37'34"	0.003
11/02/2048 00:00:00	X	29°49'16" ♁	05°47'39"	-05°59'18"	00°00'16"	93.518
11/02/2048 00:00:00	Y	15°52'29" ♁	11°34'05"	-11°10'27"	-00°00'12"	78.025
12/02/2048 00:00:00	♁	22°56'00" ♁	-13°52'07"	00°00'00"	01°00'43"	0.987
12/02/2048 00:00:00	♁	26°53'43" ♐	-18°57'55"	01°50'28"	14°03'45"	0.002
12/02/2048 00:00:00	♁	29°56'33" ♐	-18°04'19"	02°07'58"	00°14'07"	0.789
12/02/2048 00:00:00	♀	26°07'16" ♐	-20°57'16"	-00°02'07"	01°14'21"	1.455
12/02/2048 00:00:00	♂	25°12'16" ♍	-17°53'41"	01°12'02"	00°30'18"	1.331
12/02/2048 00:00:00	♃	17°28'08" ♏	16°12'02"	-00°52'32"	00°06'18"	5.010



Ephemerides year 2048

12/02/2048 00:00:00	♃	12°03'03" ♁	-22°15'44"	00°37'38"	00°05'56"	10.768
12/02/2048 00:00:00	♃	09°49'12" ♃	08°38'11"	00°48'41"	-00°02'28"	17.352
12/02/2048 00:00:00	♃	18°51'59" ♁	15°45'06"	-01°44'36"	00°00'29"	29.870
12/02/2048 00:00:00	♃	05°54'47" ♃	-20°31'39"	-12°04'32"	00°01'37"	41.934
12/02/2048 00:00:00	♃	05°57'56" ♁	-23°17'55"	00°00'00"	-00°03'02"	0.002
12/02/2048 00:00:00	♃	11°35'37" ♃	-14°41'00"	00°39'21"	00°01'21"	8.452
12/02/2048 00:00:00	♃	01°12'43" ♃	23°09'48"	02°49'36"	00°06'40"	0.003
12/02/2048 00:00:00	♃	05°57'56" ♁	-23°17'55"	00°00'00"	-00°03'02"	0.002
12/02/2048 00:00:00	♃	21°24'06" ♃	24°26'53" ♁	01°17'47"	00°19'53"	0.003
12/02/2048 00:00:00	X	29°49'33" ♃	05°47'51"	-05°59'13"	00°00'16"	93.533
12/02/2048 00:00:00	Y	15°52'16" ♃	11°34'13"	-11°10'18"	-00°00'11"	78.041
13/02/2048 00:00:00	♃	23°56'42" ♃	-13°32'09"	00°00'00"	01°00'42"	0.987
13/02/2048 00:00:00	♃	10°53'02" ♃	-14°39'36"	02°56'50"	13°54'10"	0.003
13/02/2048 00:00:00	♃	00°13'47" ♃	-18°12'30"	01°55'54"	00°20'16"	0.805
13/02/2048 00:00:00	♃	27°21'38" ♁	-20°45'47"	-00°04'55"	01°14'22"	1.459
13/02/2048 00:00:00	♃	25°42'29" ♃	-18°01'15"	01°11'38"	00°30'09"	1.320
13/02/2048 00:00:00	♃	17°34'31" ♁	16°14'04"	-00°52'16"	00°06'28"	5.026
13/02/2048 00:00:00	♃	12°08'57" ♁	-22°15'14"	00°37'36"	00°05'52"	10.757
13/02/2048 00:00:00	♃	09°46'43" ♃	08°39'08"	00°48'41"	-00°02'29"	17.347

Ephemerides year 2048

13/02/2048 00:00:00	♁	18°52'29"	♏	15°45'18"	-01°44'32"	00°00'31"	29.887
13/02/2048 00:00:00	♁	05°56'25"	♏	-20°31'00"	-12°04'30"	00°01'38"	41.938
13/02/2048 00:00:00	♁	05°53'41"	♏	-23°18'07"	00°00'00"	-00°05'27"	0.002
13/02/2048 00:00:00	♁	11°36'56"	♏	-14°41'00"	00°39'45"	00°01'14"	8.437
13/02/2048 00:00:00	♁	01°19'23"	♏	23°10'28"	02°48'52"	00°06'40"	0.003
13/02/2048 00:00:00	♁	05°53'41"	♏	-23°18'07"	00°00'00"	-00°05'27"	0.002
13/02/2048 00:00:00	♁	21°25'15"	♏	24°26'19"	01°17'08"	-00°21'16"	0.003
13/02/2048 00:00:00	♁	29°49'50"	♏	05°48'02"	-05°59'07"	00°00'17"	93.549
13/02/2048 00:00:00	♁	15°52'05"	♏	11°34'20"	-11°10'09"	-00°00'11"	78.056
14/02/2048 00:00:00	♁	24°57'24"	♏	-13°11'58"	00°00'00"	01°00'40"	0.987
14/02/2048 00:00:00	♁	24°40'47"	♏	-09°38'51"	03°51'44"	13°40'43"	0.003
14/02/2048 00:00:00	♁	00°36'56"	♏	-18°19'24"	01°43'49"	00°25'57"	0.822
14/02/2048 00:00:00	♁	28°36'00"	♏	-20°33'41"	-00°07'41"	01°14'22"	1.464
14/02/2048 00:00:00	♁	26°12'34"	♏	-18°08'42"	01°11'13"	00°30'00"	1.310
14/02/2048 00:00:00	♁	17°41'04"	♏	16°16'08"	-00°52'01"	00°06'38"	5.043
14/02/2048 00:00:00	♁	12°14'49"	♏	-22°14'44"	00°37'34"	00°05'49"	10.746
14/02/2048 00:00:00	♁	09°44'13"	♏	08°40'06"	00°48'42"	-00°02'30"	17.343
14/02/2048 00:00:00	♁	18°53'01"	♏	15°45'30"	-01°44'29"	00°00'33"	29.904
14/02/2048 00:00:00	♁	05°58'03"	♏	-20°30'22"	-12°04'29"	00°01'38"	41.942

Ephemerides year 2048

14/02/2048 00:00:00	♁	05°47'07" ♃	-23°18'24"	00°00'00"	-00°07'36"	0.002
14/02/2048 00:00:00	♃	11°38'07" ♉	-14°40'59"	00°40'10"	00°01'07"	8.421
14/02/2048 00:00:00	♄	01°26'03" ♈	23°11'07"	02°48'07"	00°06'40"	0.003
14/02/2048 00:00:00	♁	05°47'07" ♃	-23°18'24"	00°00'00"	-00°07'36"	0.002
14/02/2048 00:00:00	♄	20°35'38" ♈	24°26'29" ♁	01°20'41"	-01°19'51"	0.003
14/02/2048 00:00:00	X	29°50'07" ♃	05°48'14"	-05°59'01"	00°00'17"	93.565
14/02/2048 00:00:00	Y	15°51'54" ♈	11°34'28"	-11°10'01"	-00°00'10"	78.071
15/02/2048 00:00:00	♁	25°58'04" ♃	-12°51'34"	00°00'00"	01°00'39"	0.988
15/02/2048 00:00:00	♂	08°13'24" ♈	-04°16'10"	04°32'23"	13°24'00"	0.003
15/02/2048 00:00:00	♀	01°05'34" ♃	-18°25'01"	01°31'47"	00°31'12"	0.838
15/02/2048 00:00:00	♀	29°50'23" ♃	-20°20'58"	-00°10'27"	01°14'22"	1.469
15/02/2048 00:00:00	♂	26°42'30" ♉	-18°16'03"	01°10'47"	00°29'50"	1.300
15/02/2048 00:00:00	♃	17°47'47" ♃	16°18'15"	-00°51'46"	00°06'47"	5.059
15/02/2048 00:00:00	♃	12°20'37" ♃	-22°14'14"	00°37'32"	00°05'46"	10.734
15/02/2048 00:00:00	♃	09°41'42" ♈	08°41'04"	00°48'43"	-00°02'31"	17.338
15/02/2048 00:00:00	♃	18°53'35" ♃	15°45'43"	-01°44'25"	00°00'35"	29.922
15/02/2048 00:00:00	♃	05°59'42" ♈	-20°29'44"	-12°04'28"	00°01'38"	41.946
15/02/2048 00:00:00	♁	05°38'42" ♃	-23°18'46"	00°00'00"	-00°09'05"	0.002
15/02/2048 00:00:00	♃	11°39'10" ♉	-14°40'55"	00°40'34"	00°01'00"	8.406

Ephemerides year 2048

15/02/2048 00:00:00	☾	01°32'43" ♀	23°11'46"	02°47'23"	00°06'39"	0.003
15/02/2048 00:00:00	♄	05°38'42" ♂	-23°18'46"	00°00'00"	-00°09'05"	0.002
15/02/2048 00:00:00	♄	18°44'41" ♀	24°26'26" ♀	01°29'22"	-02°20'50"	0.003
15/02/2048 00:00:00	X	29°50'26" ♂	05°48'25"	-05°58'55"	00°00'18"	93.580
15/02/2048 00:00:00	Y	15°51'44" ♀	11°34'36"	-11°09'52"	-00°00'09"	78.087
16/02/2048 00:00:00	☉	26°58'43" ♀	-12°30'58"	00°00'00"	01°00'37"	0.988
16/02/2048 00:00:00	☾	21°28'05" ♀	01°10'22"	04°57'17"	13°05'08"	0.003
16/02/2048 00:00:00	♁	01°39'13" ♀	-18°29'19"	01°19'50"	00°36'02"	0.855
16/02/2048 00:00:00	♁	01°04'45" ♀	-20°07'39"	-00°13'11"	01°14'22"	1.473
16/02/2048 00:00:00	♂	27°12'16" ♀	-18°23'17"	01°10'20"	00°29'41"	1.290
16/02/2048 00:00:00	♂	17°54'40" ♂	16°20'24"	-00°51'31"	00°06'57"	5.075
16/02/2048 00:00:00	♂	12°26'21" ♂	-22°13'44"	00°37'30"	00°05'42"	10.723
16/02/2048 00:00:00	♂	09°39'09" ♀	08°42'02"	00°48'44"	-00°02'32"	17.334
16/02/2048 00:00:00	♁	18°54'11" ♂	15°45'56"	-01°44'21"	00°00'37"	29.939
16/02/2048 00:00:00	♂	06°01'21" ♀	-20°29'06"	-12°04'28"	00°01'38"	41.950
16/02/2048 00:00:00	♄	05°29'15" ♂	-23°19'10"	00°00'00"	-00°09'37"	0.002
16/02/2048 00:00:00	♂	11°40'07" ♀	-14°40'49"	00°40'59"	00°00'53"	8.390
16/02/2048 00:00:00	☾	01°39'23" ♀	23°12'25"	02°46'38"	00°06'39"	0.003
16/02/2048 00:00:00	♄	05°29'15" ♂	-23°19'10"	00°00'00"	-00°09'37"	0.002

Ephemerides year 2048

16/02/2048 00:00:00	T♄	15°59'41" ♀	24°23'44" ♀	01°42'28"	-03°04'47"	0.003
16/02/2048 00:00:00	X	29°50'44" ♀	05°48'37"	-05°58'50"	00°00'19"	93.595
16/02/2048 00:00:00	Y	15°51'34" ♀	11°34'44"	-11°09'43"	-00°00'09"	78.102
17/02/2048 00:00:00	☉	27°59'20" ♀	-12°10'09"	00°00'00"	01°00'36"	0.988
17/02/2048 00:00:00	☾	04°23'28" ♀	06°25'39"	05°06'13"	12°45'38"	0.003
17/02/2048 00:00:00	♀	02°17'30" ♀	-18°32'19"	01°08'03"	00°40'28"	0.872
17/02/2048 00:00:00	♀	02°19'08" ♀	-19°53'45"	-00°15'53"	01°14'22"	1.478
17/02/2048 00:00:00	♂	27°41'52" ♀	-18°30'24"	01°09'52"	00°29'31"	1.280
17/02/2048 00:00:00	♃	18°01'42" ♂	16°22'35"	-00°51'16"	00°07'06"	5.090
17/02/2048 00:00:00	♄	12°32'03" ♂	-22°13'14"	00°37'28"	00°05'39"	10.711
17/02/2048 00:00:00	♅	09°36'36" ♀	08°43'00"	00°48'45"	-00°02'33"	17.330
17/02/2048 00:00:00	♆	18°54'49" ♂	15°46'10"	-01°44'17"	00°00'39"	29.956
17/02/2048 00:00:00	♇	06°03'00" ♀	-20°28'28"	-12°04'27"	00°01'39"	41.953
17/02/2048 00:00:00	♈	05°19'48" ♂	-23°19'33"	00°00'00"	-00°09'07"	0.002
17/02/2048 00:00:00	♉	11°40'57" ♀	-14°40'41"	00°41'24"	00°00'46"	8.375
17/02/2048 00:00:00	♊	01°46'03" ♀	23°13'03"	02°45'53"	00°06'39"	0.003
17/02/2048 00:00:00	T♈	05°19'48" ♂	-23°19'33"	00°00'00"	-00°09'07"	0.002
17/02/2048 00:00:00	T♄	12°45'46" ♀	24°16'10" ♀	01°57'47"	-03°17'17"	0.003
17/02/2048 00:00:00	X	29°51'04" ♀	05°48'49"	-05°58'44"	00°00'19"	93.610

Ephemerides year 2048

17/02/2048 00:00:00	Y	15°51'26" ♀	11°34'52"	-11°09'34"	-00°00'08"	78.118
18/02/2048 00:00:00	☉	28°59'55" ♋	-11°49'09"	00°00'00"	01°00'34"	0.988
18/02/2048 00:00:00	☾	16°59'42" ♋	11°17'15"	04°59'53"	12°27'07"	0.003
18/02/2048 00:00:00	♀	03°00'03" ♋	-18°33'58"	00°56'28"	00°44'33"	0.888
18/02/2048 00:00:00	♀	03°33'31" ♋	-19°39'16"	-00°18'34"	01°14'23"	1.482
18/02/2048 00:00:00	♂	28°11'18" ♎	-18°37'25"	01°09'24"	00°29'21"	1.269
18/02/2048 00:00:00	♃	18°08'53" ♏	16°24'49"	-00°51'01"	00°07'16"	5.106
18/02/2048 00:00:00	♄	12°37'41" ♏	-22°12'44"	00°37'27"	00°05'36"	10.699
18/02/2048 00:00:00	♅	09°34'02" ♏	08°43'59"	00°48'45"	-00°02'34"	17.327
18/02/2048 00:00:00	♆	18°55'29" ♏	15°46'25"	-01°44'14"	00°00'41"	29.973
18/02/2048 00:00:00	♁	06°04'39" ♏	-20°27'50"	-12°04'27"	00°01'39"	41.956
18/02/2048 00:00:00	♁	05°11'18" ♏	-23°19'53"	00°00'00"	-00°07'42"	0.002
18/02/2048 00:00:00	♂	11°41'40" ♎	-14°40'31"	00°41'49"	00°00'39"	8.360
18/02/2048 00:00:00	♁	01°52'43" ♀	23°13'41"	02°45'09"	00°06'39"	0.003
18/02/2048 00:00:00	T♁	05°11'18" ♏	-23°19'53"	00°00'00"	-00°07'42"	0.002
18/02/2048 00:00:00	T♁	09°35'44" ♀	24°04'08" ○	02°12'36"	-02°58'20"	0.003
18/02/2048 00:00:00	X	29°51'24" ♋	05°49'01"	-05°58'38"	00°00'20"	93.625
18/02/2048 00:00:00	Y	15°51'18" ♀	11°35'00"	-11°09'25"	-00°00'07"	78.134
19/02/2048 00:00:00	☉	00°00'29" ♏	-11°27'58"	00°00'00"	01°00'32"	0.988

Ephemerides year 2048

19/02/2048 00:00:00	♃	29°18'32" ♀	15°34'47"	04°39'38"	12°11'04"	0.003
19/02/2048 00:00:00	♆	03°46'30" ♁	-18°34'18"	00°45'07"	00°48'18"	0.905
19/02/2048 00:00:00	♀	04°47'54" ♁	-19°24'12"	-00°21'13"	01°14'23"	1.487
19/02/2048 00:00:00	♂	28°40'35" ♎	-18°44'19"	01°08'55"	00°29'11"	1.259
19/02/2048 00:00:00	♃	18°16'14" ♄	16°27'05"	-00°50'47"	00°07'25"	5.122
19/02/2048 00:00:00	♅	12°43'15" ♁	-22°12'15"	00°37'25"	00°05'32"	10.687
19/02/2048 00:00:00	♁	09°31'28" ♎	08°44'58"	00°48'46"	-00°02'34"	17.323
19/02/2048 00:00:00	♆	18°56'11" ♄	15°46'39"	-01°44'10"	00°00'43"	29.990
19/02/2048 00:00:00	♁	06°06'18" ♃	-20°27'13"	-12°04'28"	00°01'39"	41.959
19/02/2048 00:00:00	♁	05°04'35" ♁	-23°20'09"	00°00'00"	-00°05'40"	0.002
19/02/2048 00:00:00	♂	11°42'16" ♎	-14°40'18"	00°42'13"	00°00'32"	8.345
19/02/2048 00:00:00	♁	01°59'23" ♀	23°14'18"	02°44'24"	00°06'39"	0.003
19/02/2048 00:00:00	♁	05°04'35" ♁	-23°20'09"	00°00'00"	-00°05'40"	0.002
19/02/2048 00:00:00	♁	06°55'02" ♃	23°50'26" ♁	02°24'57"	-02°21'34"	0.003
19/02/2048 00:00:00	X	29°51'45" ♀	05°49'14"	-05°58'33"	00°00'20"	93.640
19/02/2048 00:00:00	Y	15°51'11" ♃	11°35'08"	-11°09'16"	-00°00'06"	78.150
20/02/2048 00:00:00	♁	01°01'00" ♃	-11°06'36"	00°00'00"	01°00'31"	0.989
20/02/2048 00:00:00	♃	11°23'06" ♄	19°09'23"	04°07'11"	11°58'44"	0.003
20/02/2048 00:00:00	♆	04°36'34" ♁	-18°33'17"	00°34'01"	00°51'46"	0.921

Ephemerides year 2048

20/02/2048 00:00:00 ♀	06°02'18" ♁	-19°08'34"	-00°23'50"	01°14'23"	1.491
20/02/2048 00:00:00 ♂	29°09'41" ♃	-18°51'07"	01°08'25"	00°29'01"	1.249
20/02/2048 00:00:00 ♃	18°23'44" ♁	16°29'23"	-00°50'32"	00°07'34"	5.138
20/02/2048 00:00:00 ♃	12°48'46" ♁	-22°11'45"	00°37'23"	00°05'29"	10.674
20/02/2048 00:00:00 ♃	09°28'53" ♃	08°45'57"	00°48'46"	-00°02'35"	17.320
20/02/2048 00:00:00 ♃	18°56'55" ♁	15°46'55"	-01°44'07"	00°00'45"	30.007
20/02/2048 00:00:00 ♃	06°07'58" ♃	-20°26'36"	-12°04'28"	00°01'39"	41.962
20/02/2048 00:00:00 ♃	05°00'03" ♁	-23°20'19"	00°00'00"	-00°03'23"	0.002
20/02/2048 00:00:00 ♃	11°42'45" ♃	-14°40'03"	00°42'38"	00°00'25"	8.330
20/02/2048 00:00:00 ♃	02°06'03" ♃	23°14'55"	02°43'39"	00°06'39"	0.003
20/02/2048 00:00:00 T♃	05°00'03" ♁	-23°20'19"	00°00'00"	-00°03'23"	0.002
20/02/2048 00:00:00 T♃	04°52'41" ♃	23°37'54" ♃	02°34'15"	-01°44'20"	0.003
20/02/2048 00:00:00 X	29°52'06" ♃	05°49'26"	-05°58'27"	00°00'21"	93.655
20/02/2048 00:00:00 Y	15°51'05" ♃	11°35'17"	-11°09'07"	-00°00'05"	78.166
21/02/2048 00:00:00 ☉	02°01'31" ♃	-10°45'04"	00°00'00"	01°00'29"	0.989
21/02/2048 00:00:00 ☽	23°17'35" ♁	21°53'11"	03°24'21"	11°51'02"	0.003
21/02/2048 00:00:00 ♃	05°29'57" ♁	-18°30'56"	00°23'11"	00°54'57"	0.937
21/02/2048 00:00:00 ♀	07°16'41" ♁	-18°52'24"	-00°26'25"	01°14'23"	1.496
21/02/2048 00:00:00 ♂	29°38'37" ♃	-18°57'48"	01°07'55"	00°28'50"	1.239



Ephemerides year 2048

21/02/2048 00:00:00	♃	18°31'23" ♀	16°31'43"	-00°50'18"	00°07'43"	5.154
21/02/2048 00:00:00	♅	12°54'13" ♂	-22°11'15"	00°37'22"	00°05'25"	10.662
21/02/2048 00:00:00	♁	09°26'17" ♀	08°46'56"	00°48'47"	-00°02'35"	17.318
21/02/2048 00:00:00	♃	18°57'42" ♀	15°47'11"	-01°44'03"	00°00'47"	30.024
21/02/2048 00:00:00	♁	06°09'38" ♂	-20°25'59"	-12°04'29"	00°01'39"	41.964
21/02/2048 00:00:00	♁	04°57'45" ♂	-23°20'24"	00°00'00"	-00°01'16"	0.002
21/02/2048 00:00:00	♁	11°43'07" ♀	-14°39'46"	00°43'03"	00°00'18"	8.315
21/02/2048 00:00:00	♁	02°12'43" ♀	23°15'32"	02°42'54"	00°06'39"	0.003
21/02/2048 00:00:00	♁	04°57'45" ♂	-23°20'24"	00°00'00"	-00°01'16"	0.002
21/02/2048 00:00:00	♁	03°22'08" ♀	23°27'30" ♀	02°41'06"	-01°19'32"	0.003
21/02/2048 00:00:00	X	29°52'28" ♀	05°49'39"	-05°58'22"	00°00'22"	93.669
21/02/2048 00:00:00	Y	15°50'59" ♀	11°35'25"	-11°08'58"	-00°00'04"	78.182
22/02/2048 00:00:00	♁	03°01'59" ♂	-10°23'21"	00°00'00"	01°00'27"	0.989
22/02/2048 00:00:00	♁	05°06'55" ♀	23°39'20" ♀	02°33'03"	11°48'30"	0.003
22/02/2048 00:00:00	♁	06°26'25" ♀	-18°27'15"	00°12'39"	00°57'54"	0.953
22/02/2048 00:00:00	♁	08°31'04" ♀	-18°35'40"	-00°28'57"	01°14'23"	1.500
22/02/2048 00:00:00	♁	00°07'22" ♂	-19°04'23"	01°07'23"	00°28'40"	1.229
22/02/2048 00:00:00	♃	18°39'10" ♀	16°34'05"	-00°50'03"	00°07'52"	5.169
22/02/2048 00:00:00	♅	12°59'37" ♂	-22°10'46"	00°37'20"	00°05'21"	10.649

Ephemerides year 2048

22/02/2048 00:00:00	♃	09°23'41" ♃r	08°47'55"	00°48'47"	-00°02'36"	17.315
22/02/2048 00:00:00	♃	18°58'30" ♃	15°47'27"	-01°43'59"	00°00'49"	30.041
22/02/2048 00:00:00	♃	06°11'18" ♃	-20°25'22"	-12°04'30"	00°01'39"	41.966
22/02/2048 00:00:00	♃	04°57'17" ♃	-23°20'25"	00°00'00"	00°00'14"	0.002
22/02/2048 00:00:00	♃	11°43'22" ♃	-14°39'27"	00°43'28"	00°00'11"	8.300
22/02/2048 00:00:00	♃	02°19'23" ♃	23°16'08"	02°42'08"	00°06'40"	0.003
22/02/2048 00:00:00	♃	04°57'17" ♃	-23°20'25"	00°00'00"	00°00'14"	0.002
22/02/2048 00:00:00	♃	02°07'12" ♃r	23°18'12"	02°46'46"	-01°13'43"	0.003
22/02/2048 00:00:00	X	29°52'50" ♃	05°49'52"	-05°58'16"	00°00'22"	93.683
22/02/2048 00:00:00	Y	15°50'55" ♃r	11°35'34"	-11°08'49"	-00°00'04"	78.198
23/02/2048 00:00:00	♃	04°02'25" ♃	-10°01'30"	00°00'00"	01°00'25"	0.989
23/02/2048 00:00:00	♃	16°56'25" ♃	24°22'16" ♃	01°35'10"	11°51'24"	0.003
23/02/2048 00:00:00	♃	07°25'43" ♃	-18°22'13"	00°02'25"	01°00'38"	0.969
23/02/2048 00:00:00	♃	09°45'28" ♃	-18°18'24"	-00°31'28"	01°14'23"	1.504
23/02/2048 00:00:00	♃	00°35'57" ♃	-19°10'52"	01°06'51"	00°28'29"	1.219
23/02/2048 00:00:00	♃	18°47'07" ♃	16°36'29"	-00°49'49"	00°08'00"	5.185
23/02/2048 00:00:00	♃	13°04'57" ♃	-22°10'16"	00°37'19"	00°05'18"	10.636
23/02/2048 00:00:00	♃	09°21'04" ♃r	08°48'54"	00°48'48"	-00°02'36"	17.313
23/02/2048 00:00:00	♃	18°59'20" ♃	15°47'45"	-01°43'56"	00°00'51"	30.058

Ephemerides year 2048

23/02/2048 00:00:00	♁	06°12'58" ♈	-20°24'45"	-12°04'32"	00°01'40"	41.967
23/02/2048 00:00:00	♁	04°57'57" ♈	-23°20'24"	00°00'00"	00°00'54"	0.002
23/02/2048 00:00:00	♁	11°43'30" ♉	-14°39'06"	00°43'53"	00°00'04"	8.286
23/02/2048 00:00:00	♁	02°26'03" ♉	23°16'44"	02°41'23"	00°06'40"	0.003
23/02/2048 00:00:00	♁	04°57'57" ♈	-23°20'24"	00°00'00"	00°00'54"	0.002
23/02/2048 00:00:00	♁	00°47'52" ♉	23°07'34"	02°52'38"	-01°28'10"	0.003
23/02/2048 00:00:00	X	29°53'13" ♀	05°50'05"	-05°58'11"	00°00'23"	93.697
23/02/2048 00:00:00	Y	15°50'51" ♉	11°35'42"	-11°08'40"	-00°00'03"	78.214
24/02/2048 00:00:00	♁	05°02'50" ♈	-09°39'29"	00°00'00"	01°00'23"	0.989
24/02/2048 00:00:00	♁	28°51'31" ♉	23°58'27" ♁	00°32'45"	11°59'39"	0.003
24/02/2048 00:00:00	♁	08°27'39" ♁	-18°15'50"	-00°07'29"	01°03'11"	0.984
24/02/2048 00:00:00	♁	10°59'51" ♁	-18°00'37"	-00°33'57"	01°14'23"	1.509
24/02/2048 00:00:00	♁	01°04'21" ♀	-19°17'14"	01°06'17"	00°28'18"	1.209
24/02/2048 00:00:00	♁	18°55'12" ♀	16°38'55"	-00°49'35"	00°08'09"	5.201
24/02/2048 00:00:00	♁	13°10'13" ♈	-22°09'47"	00°37'17"	00°05'14"	10.623
24/02/2048 00:00:00	♁	09°18'27" ♉	08°49'54"	00°48'48"	-00°02'37"	17.312
24/02/2048 00:00:00	♁	19°00'12" ♀	15°48'02"	-01°43'52"	00°00'53"	30.074
24/02/2048 00:00:00	♁	06°14'38" ♈	-20°24'09"	-12°04'34"	00°01'40"	41.969
24/02/2048 00:00:00	♁	04°58'46" ♈	-23°20'22"	00°00'00"	00°00'33"	0.002

Ephemerides year 2048

24/02/2048 00:00:00	♄	11°43'31" ♍	-14°38'42"	00°44'18"	-00°00'02"	8.271
24/02/2048 00:00:00	♁	02°32'43" ♌	23°17'19"	02°40'38"	00°06'40"	0.003
24/02/2048 00:00:00	♁	04°58'46" ♌	-23°20'22"	00°00'00"	00°00'33"	0.002
24/02/2048 00:00:00	♁	29°05'13" ♌	22°52'34"	02°59'59"	-01°59'19"	0.003
24/02/2048 00:00:00	X	29°53'37" ♌	05°50'18"	-05°58'05"	00°00'23"	93.711
24/02/2048 00:00:00	Y	15°50'48" ♌	11°35'51"	-11°08'31"	-00°00'02"	78.230
25/02/2048 00:00:00	♁	06°03'13" ♌	-09°17'19"	-00°00'00"	01°00'21"	0.990
25/02/2048 00:00:00	♁	10°57'23" ♌	22°27'03"	-00°31'56"	12°12'49"	0.003
25/02/2048 00:00:00	♁	09°32'02" ♌	-18°08'08"	-00°17'05"	01°05'33"	0.999
25/02/2048 00:00:00	♁	12°14'14" ♌	-17°42'19"	-00°36'23"	01°14'23"	1.513
25/02/2048 00:00:00	♁	01°32'33" ♌	-19°23'30"	01°05'43"	00°28'06"	1.199
25/02/2048 00:00:00	♁	19°03'26" ♌	16°41'23"	-00°49'21"	00°08'17"	5.216
25/02/2048 00:00:00	♁	13°15'25" ♌	-22°09'18"	00°37'15"	00°05'10"	10.610
25/02/2048 00:00:00	♁	09°15'50" ♌	08°50'53"	00°48'48"	-00°02'37"	17.310
25/02/2048 00:00:00	♁	19°01'06" ♌	15°48'20"	-01°43'49"	00°00'55"	30.091
25/02/2048 00:00:00	♁	06°16'18" ♌	-20°23'33"	-12°04'36"	00°01'40"	41.970
25/02/2048 00:00:00	♁	04°58'45" ♌	-23°20'22"	00°00'00"	-00°00'45"	0.002
25/02/2048 00:00:00	♁	11°43'26" ♌	-14°38'17"	00°44'44"	-00°00'09"	8.257
25/02/2048 00:00:00	♁	02°39'23" ♌	23°17'54"	02°39'52"	00°06'39"	0.003

Ephemerides year 2048

25/02/2048 00:00:00	T♄	04°58'45" ♉	-23°20'22"	00°00'00"	-00°00'45"	0.002
25/02/2048 00:00:00	T♄	26°46'39" ♉	22°30'09"	03°09'30"	-02°37'55"	0.003
25/02/2048 00:00:00	X	29°54'01" ♉	05°50'31"	-05°58'00"	00°00'24"	93.725
25/02/2048 00:00:00	Y	15°50'46" ♉	11°36'00"	-11°08'21"	-00°00'01"	78.246
26/02/2048 00:00:00	☉	07°03'34" ♉	-08°55'01"	-00°00'00"	01°00'19"	0.990
26/02/2048 00:00:00	☾	23°18'33" ♉	19°50'17"	-01°36'21"	12°30'06"	0.003
26/02/2048 00:00:00	♁	10°38'42" ♉	-17°59'05"	-00°26'20"	01°07'46"	1.014
26/02/2048 00:00:00	♂	13°28'37" ♉	-17°23'31"	-00°38'46"	01°14'23"	1.517
26/02/2048 00:00:00	♂	02°00'35" ♉	-19°29'39"	01°05'08"	00°27'55"	1.188
26/02/2048 00:00:00	♂	19°11'47" ♉	16°43'52"	-00°49'07"	00°08'26"	5.231
26/02/2048 00:00:00	♂	13°20'34" ♉	-22°08'49"	00°37'14"	00°05'06"	10.596
26/02/2048 00:00:00	♂	09°13'12" ♉	08°51'53"	00°48'49"	-00°02'37"	17.309
26/02/2048 00:00:00	♂	19°02'02" ♉	15°48'39"	-01°43'45"	00°00'56"	30.107
26/02/2048 00:00:00	♂	06°17'58" ♉	-20°22'57"	-12°04'38"	00°01'40"	41.971
26/02/2048 00:00:00	♂	04°56'58" ♉	-23°20'26"	00°00'00"	-00°02'53"	0.002
26/02/2048 00:00:00	♂	11°43'13" ♉	-14°37'49"	00°45'09"	-00°00'15"	8.242
26/02/2048 00:00:00	♂	02°46'03" ♉	23°18'29"	02°39'07"	00°06'39"	0.003
26/02/2048 00:00:00	T♄	04°56'58" ♉	-23°20'26"	00°00'00"	-00°02'53"	0.002
26/02/2048 00:00:00	T♄	23°51'55" ♉	21°58'32"	03°20'52"	-03°08'46"	0.003

Ephemerides year 2048

26/02/2048 00:00:00	X	29°54'25" ♀	05°50'45"	-05°57'55"	00°00'24"	93.739
26/02/2048 00:00:00	Y	15°50'45" ♀	11°36'09"	-11°08'12"	-00°00'00"	78.263
27/02/2048 00:00:00	☉	08°03'53" ♀	-08°32'36"	-00°00'00"	01°00'17"	0.990
27/02/2048 00:00:00	☾	05°58'35" ♀	16°13'40"	-02°37'31"	12°50'18"	0.003
27/02/2048 00:00:00	♁	11°47'31" ♀	-17°48'42"	-00°35'15"	01°09'50"	1.029
27/02/2048 00:00:00	♂	14°43'01" ♀	-17°04'13"	-00°41'07"	01°14'23"	1.521
27/02/2048 00:00:00	♂	02°28'24" ♀	-19°35'43"	01°04'32"	00°27'43"	1.178
27/02/2048 00:00:00	♃	19°20'18" ♀	16°46'24"	-00°48'53"	00°08'34"	5.247
27/02/2048 00:00:00	♄	13°25'38" ♀	-22°08'20"	00°37'12"	00°05'02"	10.583
27/02/2048 00:00:00	♅	09°10'35" ♀	08°52'52"	00°48'49"	-00°02'37"	17.309
27/02/2048 00:00:00	♆	19°03'00" ♀	15°48'58"	-01°43'42"	00°00'58"	30.124
27/02/2048 00:00:00	♇	06°19'38" ♀	-20°22'22"	-12°04'41"	00°01'39"	41.971
27/02/2048 00:00:00	♈	04°52'49" ♀	-23°20'35"	00°00'00"	-00°05'27"	0.002
27/02/2048 00:00:00	♉	11°42'54" ♀	-14°37'19"	00°45'34"	-00°00'22"	8.228
27/02/2048 00:00:00	♊	02°52'43" ♀	23°19'04"	02°38'21"	00°06'39"	0.003
27/02/2048 00:00:00	T♈	04°52'49" ♀	-23°20'35"	00°00'00"	-00°05'27"	0.002
27/02/2048 00:00:00	T♉	20°37'20" ♀	21°19'07"	03°32'44"	-03°15'12"	0.003
27/02/2048 00:00:00	X	29°54'51" ♀	05°50'58"	-05°57'49"	00°00'25"	93.752
27/02/2048 00:00:00	Y	15°50'44" ♀	11°36'18"	-11°08'03"	-00°00'00"	78.279

Ephemerides year 2048

28/02/2048 00:00:00	☉	09°04'10" ♈	-08°10'03"	-00°00'00"	01°00'16"	0.990
28/02/2048 00:00:00	☾	18°59'36" ♏	11°45'48"	-03°32'04"	13°11'47"	0.003
28/02/2048 00:00:00	♁	12°58'21" ♍	-17°37'00"	-00°43'49"	01°11'47"	1.043
28/02/2048 00:00:00	♂	15°57'24" ♍	-16°44'26"	-00°43'26"	01°14'23"	1.526
28/02/2048 00:00:00	♂	02°56'02" ♈	-19°41'40"	01°03'55"	00°27'31"	1.168
28/02/2048 00:00:00	♃	19°28'56" ♉	16°48'57"	-00°48'40"	00°08'42"	5.262
28/02/2048 00:00:00	♄	13°30'39" ♎	-22°07'51"	00°37'11"	00°04'58"	10.569
28/02/2048 00:00:00	♅	09°07'57" ♎	08°53'52"	00°48'49"	-00°02'37"	17.308
28/02/2048 00:00:00	♆	19°04'00" ♉	15°49'17"	-01°43'38"	00°01'00"	30.140
28/02/2048 00:00:00	♇	06°21'18" ♈	-20°21'46"	-12°04'44"	00°01'39"	41.971
28/02/2048 00:00:00	♈	04°46'04" ♎	-23°20'50"	00°00'00"	-00°08'00"	0.002
28/02/2048 00:00:00	♉	11°42'27" ♎	-14°36'47"	00°45'59"	-00°00'29"	8.214
28/02/2048 00:00:00	♊	02°59'23" ♈	23°19'38"	02°37'36"	00°06'39"	0.003
28/02/2048 00:00:00	♋	04°46'04" ♎	-23°20'50"	00°00'00"	-00°08'00"	0.002
28/02/2048 00:00:00	♌	17°32'36" ♉	20°37'42"	03°43'09"	-02°48'53"	0.003
28/02/2048 00:00:00	X	29°55'16" ♈	05°51'12"	-05°57'44"	00°00'25"	93.766
28/02/2048 00:00:00	Y	15°50'44" ♈	11°36'28"	-11°07'54"	00°00'00"	78.296
29/02/2048 00:00:00	☉	10°04'25" ♈	-07°47'22"	-00°00'00"	01°00'14"	0.991
29/02/2048 00:00:00	☾	02°21'59" ♎	06°38'08"	-04°16'26"	13°32'41"	0.003

Ephemerides year 2048

29/02/2048 00:00:00	♀	14°11'04" ♁	-17°23'58"	-00°52'02"	01°13'38"	1.058
29/02/2048 00:00:00	♀	17°11'47" ♁	-16°24'11"	-00°45'42"	01°14'23"	1.530
29/02/2048 00:00:00	♂	03°23'28" ♀	-19°47'31"	01°03'17"	00°27'19"	1.158
29/02/2048 00:00:00	♃	19°37'42" ♀	16°51'32"	-00°48'26"	00°08'50"	5.277
29/02/2048 00:00:00	♅	13°35'35" ♀	-22°07'23"	00°37'10"	00°04'54"	10.555
29/02/2048 00:00:00	♁	09°05'19" ♃	08°54'51"	00°48'49"	-00°02'37"	17.308
29/02/2048 00:00:00	♃	19°05'01" ♀	15°49'37"	-01°43'35"	00°01'02"	30.156
29/02/2048 00:00:00	♁	06°22'58" ♃	-20°21'12"	-12°04'47"	00°01'39"	41.971
29/02/2048 00:00:00	♁	04°36'58" ♀	-23°21'10"	00°00'00"	-00°10'04"	0.002
29/02/2048 00:00:00	♁	11°41'54" ♃	-14°36'12"	00°46'25"	-00°00'36"	8.200
29/02/2048 00:00:00	♁	03°06'03" ♃	23°20'11"	02°36'50"	00°06'39"	0.003
29/02/2048 00:00:00	T♁	04°36'58" ♀	-23°21'10"	00°00'00"	-00°10'04"	0.002
29/02/2048 00:00:00	T♁	15°08'18" ♀	20°02'38"	03°50'34"	-01°56'42"	0.003
29/02/2048 00:00:00	X	29°55'42" ♀	05°51'26"	-05°57'39"	00°00'26"	93.779
29/02/2048 00:00:00	Y	15°50'45" ♃	11°36'37"	-11°07'44"	00°00'01"	78.312
01/03/2048 00:00:00	♁	11°04'38" ♃	-07°24'35"	-00°00'00"	01°00'12"	0.991
01/03/2048 00:00:00	♃	16°04'09" ♃	01°04'46"	-04°47'13"	13°51'03"	0.003
01/03/2048 00:00:00	♀	15°25'36" ♁	-17°09'37"	-00°59'54"	01°15'23"	1.072
01/03/2048 00:00:00	♀	18°26'10" ♁	-16°03'28"	-00°47'55"	01°14'23"	1.534



Ephemerides year 2048

01/03/2048 00:00:00	♂	03°50'42" ♂	-19°53'16"	01°02'39"	00°27'07"	1.148
01/03/2048 00:00:00	♃	19°46'36" ♂	16°54'08"	-00°48'13"	00°08'57"	5.292
01/03/2048 00:00:00	♅	13°40'27" ♀	-22°06'55"	00°37'08"	00°04'50"	10.541
01/03/2048 00:00:00	♁	09°02'41" ♃	08°55'50"	00°48'49"	-00°02'37"	17.308
01/03/2048 00:00:00	♆	19°06'05" ♂	15°49'58"	-01°43'31"	00°01'04"	30.173
01/03/2048 00:00:00	♁	06°24'37" ♃	-20°20'37"	-12°04'51"	00°01'39"	41.971
01/03/2048 00:00:00	♁	04°26'14" ♀	-23°21'32"	00°00'00"	-00°11'12"	0.003
01/03/2048 00:00:00	♃	11°41'14" ♃	-14°35'36"	00°46'50"	-00°00'43"	8.186
01/03/2048 00:00:00	♁	03°12'42" ♃	23°20'44"	02°36'04"	00°06'39"	0.003
01/03/2048 00:00:00	♁♁	04°26'14" ♀	-23°21'32"	00°00'00"	-00°11'12"	0.003
01/03/2048 00:00:00	♁♃	13°41'54" ♂	19°40'21"	03°54'30"	-00°56'22"	0.003
01/03/2048 00:00:00	X	29°56'09" ♃	05°51'40"	-05°57'34"	00°00'26"	93.792
01/03/2048 00:00:00	Y	15°50'47" ♃	11°36'46"	-11°07'35"	00°00'02"	78.329
02/03/2048 00:00:00	♁	12°04'50" ♃	-07°01'42"	-00°00'00"	01°00'10"	0.991
02/03/2048 00:00:00	♁	00°02'42" ♃	-04°37'42"	-05°01'33"	14°05'15"	0.002
02/03/2048 00:00:00	♁	16°41'49" ♃	-16°53'58"	-01°07'25"	01°17'03"	1.085
02/03/2048 00:00:00	♀	19°40'33" ♃	-15°42'17"	-00°50'05"	01°14'23"	1.538
02/03/2048 00:00:00	♂	04°17'43" ♂	-19°58'55"	01°01'59"	00°26'54"	1.138
02/03/2048 00:00:00	♃	19°55'37" ♂	16°56'46"	-00°48'00"	00°09'05"	5.307

Ephemerides year 2048

02/03/2048 00:00:00	♄	13°45'15" ♉	-22°06'27"	00°37'07"	00°04'45"	10.527
02/03/2048 00:00:00	♃	09°00'04" ♉	08°56'50"	00°48'49"	-00°02'37"	17.309
02/03/2048 00:00:00	♃	19°07'10" ♉	15°50'19"	-01°43'28"	00°01'06"	30.189
02/03/2048 00:00:00	♃	06°26'17" ♉	-20°20'03"	-12°04'55"	00°01'39"	41.970
02/03/2048 00:00:00	♃	04°14'56" ♉	-23°21'54"	00°00'00"	-00°11'09"	0.003
02/03/2048 00:00:00	♃	11°40'28" ♉	-14°34'58"	00°47'15"	-00°00'49"	8.173
02/03/2048 00:00:00	♃	03°19'22" ♉	23°21'17"	02°35'19"	00°06'39"	0.003
02/03/2048 00:00:00	♃	04°14'56" ♉	-23°21'54"	00°00'00"	-00°11'09"	0.003
02/03/2048 00:00:00	♃	13°12'10" ♉	19°32'05"	03°55'22"	-00°05'55"	0.003
02/03/2048 00:00:00	X	29°56'36" ♉	05°51'54"	-05°57'29"	00°00'27"	93.804
02/03/2048 00:00:00	Y	15°50'50" ♉	11°36'56"	-11°07'26"	00°00'02"	78.345
03/03/2048 00:00:00	♃	13°05'00" ♉	-06°38'42"	-00°00'00"	01°00'09"	0.991
03/03/2048 00:00:00	♃	14°12'56" ♉	-10°10'29"	-04°57'42"	14°14'18"	0.002
03/03/2048 00:00:00	♃	17°59'41" ♉	-16°36'59"	-01°14'33"	01°18'38"	1.099
03/03/2048 00:00:00	♃	20°54'57" ♉	-15°20'41"	-00°52'12"	01°14'23"	1.542
03/03/2048 00:00:00	♃	04°44'31" ♉	-20°04'28"	01°01'18"	00°26'41"	1.128
03/03/2048 00:00:00	♃	20°04'47" ♉	16°59'26"	-00°47'47"	00°09'13"	5.322
03/03/2048 00:00:00	♄	13°49'59" ♉	-22°05'59"	00°37'06"	00°04'41"	10.513
03/03/2048 00:00:00	♃	08°57'26" ♉	08°57'49"	00°48'49"	-00°02'37"	17.310

Ephemerides year 2048

03/03/2048 00:00:00	♁	19°08'17"	♏	15°50'40"	-01°43'24"	00°01'07"	30.205
03/03/2048 00:00:00	♁	06°27'56"	♏	-20°19'29"	-12°04'59"	00°01'39"	41.969
03/03/2048 00:00:00	♁	04°04'20"	♏	-23°22'14"	00°00'00"	-00°09'52"	0.003
03/03/2048 00:00:00	♁	11°39'34"	♏	-14°34'17"	00°47'41"	-00°00'56"	8.159
03/03/2048 00:00:00	♁	03°26'02"	♏	23°21'50"	02°34'33"	00°06'39"	0.003
03/03/2048 00:00:00	T♁	04°04'20"	♏	-23°22'14"	00°00'00"	-00°09'52"	0.003
03/03/2048 00:00:00	T♁	13°22'54"	♏	19°34'17"	03°54'13"	00°23'26"	0.003
03/03/2048 00:00:00	X	29°57'03"	♏	05°52'08"	-05°57'24"	00°00'27"	93.817
03/03/2048 00:00:00	Y	15°50'53"	♏	11°37'05"	-11°07'17"	00°00'03"	78.362
04/03/2048 00:00:00	♁	14°05'08"	♏	-06°15'37"	-00°00'00"	01°00'07"	0.992
04/03/2048 00:00:00	♁	28°29'33"	♏	-15°13'11"	-04°35'22"	14°18'06"	0.002
04/03/2048 00:00:00	♁	19°19'06"	♏	-16°18'43"	-01°21'20"	01°20'10"	1.112
04/03/2048 00:00:00	♁	22°09'20"	♏	-14°58'39"	-00°54'16"	01°14'23"	1.546
04/03/2048 00:00:00	♁	05°11'06"	♏	-20°09'55"	01°00'36"	00°26'28"	1.118
04/03/2048 00:00:00	♁	20°14'03"	♏	17°02'07"	-00°47'33"	00°09'20"	5.337
04/03/2048 00:00:00	♁	13°54'39"	♏	-22°05'32"	00°37'04"	00°04'37"	10.498
04/03/2048 00:00:00	♁	08°54'49"	♏	08°58'48"	00°48'49"	-00°02'37"	17.311
04/03/2048 00:00:00	♁	19°09'26"	♏	15°51'02"	-01°43'21"	00°01'09"	30.220
04/03/2048 00:00:00	♁	06°29'36"	♏	-20°18'55"	-12°05'03"	00°01'39"	41.968

Ephemerides year 2048

04/03/2048 00:00:00	♏	03°55'30"	♌	-23°22'30"	00°00'00"	-00°07'38"	0.002
04/03/2048 00:00:00	♋	11°38'34"	♎	-14°33'34"	00°48'06"	-00°01'03"	8.146
04/03/2048 00:00:00	♋	03°32'42"	♈	23°22'22"	02°33'47"	00°06'39"	0.003
04/03/2048 00:00:00	T♏	03°55'30"	♌	-23°22'30"	00°00'00"	-00°07'38"	0.002
04/03/2048 00:00:00	T♋	13°51'29"	♏	19°41'11"	03°52'18"	00°30'32"	0.003
04/03/2048 00:00:00	X	29°57'31"	♎	05°52'23"	-05°57'19"	00°00'28"	93.829
04/03/2048 00:00:00	Y	15°50'57"	♈	11°37'15"	-11°07'07"	00°00'04"	78.378
05/03/2048 00:00:00	♉	15°05'15"	♈	-05°52'26"	-00°00'00"	01°00'06"	0.992
05/03/2048 00:00:00	♈	12°47'37"	♎	-19°24'55"	-03°55'47"	14°17'20"	0.002
05/03/2048 00:00:00	♋	20°40'01"	♏	-15°59'08"	-01°27'45"	01°21'38"	1.124
05/03/2048 00:00:00	♋	23°23'43"	♏	-14°36'11"	-00°56'17"	01°14'23"	1.550
05/03/2048 00:00:00	♈	05°37'27"	♌	-20°15'16"	00°59'53"	00°26'14"	1.108
05/03/2048 00:00:00	♈	20°23'28"	♏	17°04'49"	-00°47'20"	00°09'28"	5.352
05/03/2048 00:00:00	♈	13°59'14"	♌	-22°05'04"	00°37'03"	00°04'33"	10.484
05/03/2048 00:00:00	♈	08°52'12"	♎	08°59'46"	00°48'49"	-00°02'36"	17.312
05/03/2048 00:00:00	♋	19°10'36"	♏	15°51'24"	-01°43'18"	00°01'11"	30.236
05/03/2048 00:00:00	♈	06°31'15"	♈	-20°18'22"	-12°05'08"	00°01'39"	41.967
05/03/2048 00:00:00	♏	03°49'12"	♌	-23°22'41"	00°00'00"	-00°04'55"	0.002
05/03/2048 00:00:00	♋	11°37'28"	♎	-14°32'50"	00°48'32"	-00°01'09"	8.133

Ephemerides year 2048

05/03/2048 00:00:00	☾	03°39'21" ♀	23°22'53"	02°33'01"	00°06'39"	0.003
05/03/2048 00:00:00	♄	03°49'12" ♂	-23°22'41"	00°00'00"	-00°04'55"	0.002
05/03/2048 00:00:00	♃	14°20'18" ♂	19°48'15"	03°50'34"	00°27'04"	0.003
05/03/2048 00:00:00	X	29°58'00" ♂	05°52'37"	-05°57'14"	00°00'28"	93.841
05/03/2048 00:00:00	Y	15°51'02" ♀	11°37'25"	-11°06'58"	00°00'05"	78.395
06/03/2048 00:00:00	☉	16°05'20" ♂	-05°29'11"	-00°00'00"	01°00'04"	0.992
06/03/2048 00:00:00	☽	27°03'08" ♀	-22°26'20"	-03°01'35"	14°13'15"	0.002
06/03/2048 00:00:00	♁	22°02'22" ♀	-15°38'16"	-01°33'47"	01°23'04"	1.137
06/03/2048 00:00:00	♂	24°38'07" ♀	-14°13'20"	-00°58'15"	01°14'23"	1.554
06/03/2048 00:00:00	♂	06°03'35" ♂	-20°20'31"	00°59'09"	00°26'00"	1.099
06/03/2048 00:00:00	♂	20°32'59" ♂	17°07'33"	-00°47'08"	00°09'35"	5.367
06/03/2048 00:00:00	♃	14°03'45" ♂	-22°04'37"	00°37'02"	00°04'28"	10.469
06/03/2048 00:00:00	♃	08°49'36" ♂	09°00'45"	00°48'48"	-00°02'36"	17.314
06/03/2048 00:00:00	♃	19°11'49" ♂	15°51'47"	-01°43'14"	00°01'13"	30.252
06/03/2048 00:00:00	♂	06°32'54" ♂	-20°17'49"	-12°05'13"	00°01'38"	41.965
06/03/2048 00:00:00	♄	03°45'36" ♂	-23°22'47"	00°00'00"	-00°02'20"	0.002
06/03/2048 00:00:00	♃	11°36'15" ♀	-14°32'03"	00°48'57"	-00°01'16"	8.120
06/03/2048 00:00:00	☾	03°46'01" ♀	23°23'25"	02°32'14"	00°06'39"	0.003
06/03/2048 00:00:00	♄	03°45'36" ♂	-23°22'47"	00°00'00"	-00°02'20"	0.002

Ephemerides year 2048

06/03/2048 00:00:00	T♄	14°50'29" ♉	19°55'42"	03°48'52"	00°38'13"	0.003
06/03/2048 00:00:00	X	29°58'29" ♀	05°52'52"	-05°57'09"	00°00'29"	93.853
06/03/2048 00:00:00	Y	15°51'08" ♀	11°37'35"	-11°06'49"	00°00'06"	78.411
07/03/2048 00:00:00	♁	17°05'24" ♉	-05°05'50"	-00°00'00"	01°00'03"	0.992
07/03/2048 00:00:00	♂	11°13'28" ♀	-24°02'25"	♁-01°56'28"	14°07'10"	0.002
07/03/2048 00:00:00	♀	23°26'08" ♁	-15°16'07"	-01°39'26"	01°24'27"	1.149
07/03/2048 00:00:00	♀	25°52'31" ♁	-13°50'05"	-01°00'10"	01°14'23"	1.558
07/03/2048 00:00:00	♂	06°29'28" ♀	-20°25'41"	00°58'24"	00°25'46"	1.089
07/03/2048 00:00:00	♃	20°42'38" ♉	17°10'18"	-00°46'55"	00°09'42"	5.381
07/03/2048 00:00:00	♅	14°08'12" ♁	-22°04'11"	00°37'01"	00°04'24"	10.454
07/03/2048 00:00:00	♁	08°47'00" ♃	09°01'43"	00°48'48"	-00°02'35"	17.316
07/03/2048 00:00:00	♃	19°13'03" ♉	15°52'10"	-01°43'11"	00°01'15"	30.267
07/03/2048 00:00:00	♁	06°34'33" ♉	-20°17'16"	-12°05'19"	00°01'38"	41.963
07/03/2048 00:00:00	♁	03°44'16" ♁	-23°22'49"	00°00'00"	-00°00'28"	0.002
07/03/2048 00:00:00	♁	11°34'55" ♃	-14°31'14"	00°49'23"	-00°01'22"	8.107
07/03/2048 00:00:00	♁	03°52'41" ♀	23°23'56"	02°31'28"	00°06'39"	0.003
07/03/2048 00:00:00	T♁	03°44'16" ♁	-23°22'49"	00°00'00"	-00°00'28"	0.002
07/03/2048 00:00:00	T♄	15°50'26" ♉	20°10'13"	03°45'26"	01°29'23"	0.003
07/03/2048 00:00:00	X	29°58'58" ♀	05°53'06"	-05°57'04"	00°00'29"	93.865

Ephemerides year 2048

07/03/2048 00:00:00	Y	15°51'15" ♀	11°37'44"	-11°06'39"	00°00'07"	78.428
08/03/2048 00:00:00	☉	18°05'26" ♀	-04°42'26"	-00°00'00"	01°00'01"	0.993
08/03/2048 00:00:00	☾	25°17'12" ♀	-24°05'38"	0-00°44'42"	14°00'11"	0.002
08/03/2048 00:00:00	♁	24°51'16" ♀	-14°52'41"	-01°44'43"	01°25'47"	1.161
08/03/2048 00:00:00	♂	27°06'54" ♀	-13°26'27"	-01°02'01"	01°14'23"	1.562
08/03/2048 00:00:00	♂	06°55'07" ♀	-20°30'45"	00°57'38"	00°25'31"	1.079
08/03/2048 00:00:00	♃	20°52'24" ♀	17°13'04"	-00°46'42"	00°09'49"	5.396
08/03/2048 00:00:00	♄	14°12'34" ♀	-22°03'44"	00°36'59"	00°04'19"	10.439
08/03/2048 00:00:00	♅	08°44'25" ♀	09°02'41"	00°48'48"	-00°02'35"	17.318
08/03/2048 00:00:00	♆	19°14'19" ♀	15°52'34"	-01°43'08"	00°01'16"	30.282
08/03/2048 00:00:00	♇	06°36'11" ♀	-20°16'44"	-12°05'24"	00°01'38"	41.961
08/03/2048 00:00:00	♈	03°44'15" ♀	-23°22'49"	00°00'00"	00°00'13"	0.002
08/03/2048 00:00:00	♉	11°33'29" ♀	-14°30'23"	00°49'48"	-00°01'29"	8.094
08/03/2048 00:00:00	♊	03°59'21" ♀	23°24'26"	02°30'42"	00°06'39"	0.003
08/03/2048 00:00:00	T♈	03°44'15" ♀	-23°22'49"	00°00'00"	00°00'13"	0.002
08/03/2048 00:00:00	T♉	18°02'30" ♀	20°40'45"	03°37'27"	02°58'54"	0.003
08/03/2048 00:00:00	X	29°59'29" ♀	05°53'21"	-05°56'59"	00°00'30"	93.876
08/03/2048 00:00:00	Y	15°51'22" ♀	11°37'54"	-11°06'30"	00°00'07"	78.444
09/03/2048 00:00:00	☉	19°05'27" ♀	-04°18'58"	-00°00'00"	00°59'59"	0.993

Ephemerides year 2048

09/03/2048 00:00:00	♃	09°13'46" ♃	-22°37'42"	00°29'05"	13°52'54"	0.002
09/03/2048 00:00:00	♆	26°17'43" ♆	-14°27'59"	-01°49'36"	01°27'06"	1.173
09/03/2048 00:00:00	♀	28°21'18" ♀	-13°02'26"	-01°03'50"	01°14'23"	1.566
09/03/2048 00:00:00	♂	07°20'31" ♂	-20°35'43"	00°56'50"	00°25'16"	1.069
09/03/2048 00:00:00	♃	21°02'18" ♃	17°15'52"	-00°46'30"	00°09'56"	5.410
09/03/2048 00:00:00	♅	14°16'51" ♅	-22°03'18"	00°36'58"	00°04'15"	10.424
09/03/2048 00:00:00	♁	08°41'50" ♁	09°03'39"	00°48'47"	-00°02'34"	17.321
09/03/2048 00:00:00	♆	19°15'37" ♆	15°52'58"	-01°43'05"	00°01'18"	30.297
09/03/2048 00:00:00	♁	06°37'50" ♁	-20°16'12"	-12°05'30"	00°01'38"	41.958
09/03/2048 00:00:00	♁	03°44'16" ♁	-23°22'49"	00°00'00"	-00°00'24"	0.002
09/03/2048 00:00:00	♁	11°31'57" ♁	-14°29'31"	00°50'14"	-00°01'35"	8.081
09/03/2048 00:00:00	♁	04°06'01" ♁	23°24'57"	02°29'55"	00°06'39"	0.003
09/03/2048 00:00:00	♁	03°44'16" ♁	-23°22'49"	00°00'00"	-00°00'24"	0.002
09/03/2048 00:00:00	♁	21°49'13" ♁	21°28'48"	03°22'52"	04°31'10"	0.003
09/03/2048 00:00:00	X	29°59'59" ♁	05°53'36"	-05°56'54"	00°00'30"	93.887
09/03/2048 00:00:00	Y	15°51'30" ♁	11°38'04"	-11°06'21"	00°00'08"	78.461
10/03/2048 00:00:00	♃	20°05'26" ♃	-03°55'27"	00°00'00"	00°59'58"	0.993
10/03/2048 00:00:00	♃	23°02'56" ♃	-19°48'51"	01°40'27"	13°45'22"	0.003
10/03/2048 00:00:00	♆	27°45'28" ♆	-14°02'01"	-01°54'06"	01°28'23"	1.184



Ephemerides year 2048

10/03/2048 00:00:00	♀	29°35'42" ♍	-12°38'05"	-01°05'34"	01°14'23"	1.570
10/03/2048 00:00:00	♂	07°45'39" ♈	-20°40'36"	00°56'01"	00°25'00"	1.059
10/03/2048 00:00:00	♃	21°12'18" ♉	17°18'41"	-00°46'17"	00°10'03"	5.424
10/03/2048 00:00:00	♅	14°21'04" ♋	-22°02'53"	00°36'57"	00°04'10"	10.409
10/03/2048 00:00:00	♁	08°39'16" ♄	09°04'36"	00°48'47"	-00°02'33"	17.324
10/03/2048 00:00:00	♆	19°16'56" ♉	15°53'22"	-01°43'02"	00°01'20"	30.312
10/03/2048 00:00:00	♂	06°39'28" ♈	-20°15'40"	-12°05'37"	00°01'37"	41.955
10/03/2048 00:00:00	♁	03°43'01" ♄	-23°22'51"	00°00'00"	-00°02'16"	0.002
10/03/2048 00:00:00	♃	11°30'18" ♋	-14°28'36"	00°50'40"	-00°01'42"	8.069
10/03/2048 00:00:00	♁	04°12'41" ♄	23°25'26"	02°29'09"	00°06'39"	0.003
10/03/2048 00:00:00	T♁	03°43'01" ♄	-23°22'51"	00°00'00"	-00°02'16"	0.002
10/03/2048 00:00:00	T♃	26°52'01" ♉	22°24'00"	03°01'52"	05°25'50"	0.003
10/03/2048 00:00:00	X	00°00'30" ♉	05°53'51"	-05°56'50"	00°00'31"	93.898
10/03/2048 00:00:00	Y	15°51'40" ♄	11°38'15"	-11°06'12"	00°00'09"	78.477
11/03/2048 00:00:00	☾	21°05'23" ♈	-03°31'52"	00°00'00"	00°59'56"	0.993
11/03/2048 00:00:00	♃	06°44'19" ♋	-15°55'01"	02°45'12"	13°37'15"	0.003
11/03/2048 00:00:00	♆	29°14'30" ♍	-13°34'48"	-01°58'13"	01°29'39"	1.195
11/03/2048 00:00:00	♀	00°50'05" ♈	-12°13'22"	-01°07'16"	01°14'23"	1.573
11/03/2048 00:00:00	♂	08°10'32" ♈	-20°45'23"	00°55'12"	00°24'44"	1.049

Ephemerides year 2048

11/03/2048 00:00:00	♃	21°22'24" ♂	17°21'31"	-00°46'05"	00°10'10"	5.438
11/03/2048 00:00:00	♅	14°25'12" ♀	-22°02'27"	00°36'56"	00°04'05"	10.394
11/03/2048 00:00:00	♁	08°36'42" ♃	09°05'33"	00°48'46"	-00°02'33"	17.327
11/03/2048 00:00:00	♆	19°18'18" ♂	15°53'47"	-01°42'58"	00°01'21"	30.327
11/03/2048 00:00:00	♁	06°41'05" ♀	-20°15'09"	-12°05'43"	00°01'37"	41.952
11/03/2048 00:00:00	♁	03°39'26" ♀	-23°22'57"	00°00'00"	-00°04'59"	0.002
11/03/2048 00:00:00	♁	11°28'33" ♃	-14°27'39"	00°51'05"	-00°01'48"	8.057
11/03/2048 00:00:00	♁	04°19'20" ♀	23°25'56"	02°28'22"	00°06'39"	0.003
11/03/2048 00:00:00	♁	03°39'26" ♀	-23°22'57"	00°00'00"	-00°04'59"	0.002
11/03/2048 00:00:00	♁	02°22'11" ♀	23°11'51"	02°37'12"	05°25'11"	0.003
11/03/2048 00:00:00	X	00°01'01" ♂	05°54'06"	-05°56'45"	00°00'31"	93.909
11/03/2048 00:00:00	Y	15°51'49" ♀	11°38'25"	-11°06'02"	00°00'10"	78.494
12/03/2048 00:00:00	♁	22°05'19" ♀	-03°08'15"	00°00'00"	00°59'54"	0.994
12/03/2048 00:00:00	♁	20°17'04" ♀	-11°14'34"	03°39'47"	13°28'01"	0.003
12/03/2048 00:00:00	♁	00°44'48" ♀	-13°06'20"	-02°01'55"	01°30'54"	1.206
12/03/2048 00:00:00	♁	02°04'29" ♀	-11°48'20"	-01°08'54"	01°14'23"	1.577
12/03/2048 00:00:00	♁	08°35'08" ♀	-20°50'05"	00°54'20"	00°24'27"	1.040
12/03/2048 00:00:00	♃	21°32'38" ♂	17°24'22"	-00°45'53"	00°10'16"	5.452
12/03/2048 00:00:00	♅	14°29'16" ♀	-22°02'02"	00°36'55"	00°04'00"	10.378

Ephemerides year 2048

12/03/2048 00:00:00	♃	08°34'10" ♃	09°06'30"	00°48'46"	-00°02'32"	17.331
12/03/2048 00:00:00	♃	19°19'40" ♃	15°54'12"	-01°42'55"	00°01'23"	30.342
12/03/2048 00:00:00	♃	06°42'43" ♃	-20°14'39"	-12°05'50"	00°01'37"	41.948
12/03/2048 00:00:00	♃	03°32'55" ♃	-23°23'08"	00°00'00"	-00°08'03"	0.002
12/03/2048 00:00:00	♃	11°26'41" ♃	-14°26'40"	00°51'31"	-00°01'54"	8.045
12/03/2048 00:00:00	♃	04°26'00" ♃	23°26'25" ♃	02°27'36"	00°06'39"	0.003
12/03/2048 00:00:00	♃	03°32'55" ♃	-23°23'08"	00°00'00"	-00°08'03"	0.002
12/03/2048 00:00:00	♃	07°25'42" ♃	23°43'48" ♃	02°12'59"	04°34'47"	0.003
12/03/2048 00:00:00	X	00°01'33" ♃	05°54'22"	-05°56'40"	00°00'31"	93.920
12/03/2048 00:00:00	Y	15°52'00" ♃	11°38'35"	-11°05'53"	00°00'10"	78.510
13/03/2048 00:00:00	♃	23°05'13" ♃	-02°44'36"	00°00'00"	00°59'52"	0.994
13/03/2048 00:00:00	♃	03°39'49" ♃	-06°05'49"	04°21'25"	13°17'11"	0.003
13/03/2048 00:00:00	♃	02°16'20" ♃	-12°36'37"	-02°05'13"	01°32'08"	1.216
13/03/2048 00:00:00	♃	03°18'52" ♃	-11°22'58"	-01°10'28"	01°14'22"	1.581
13/03/2048 00:00:00	♃	08°59'27" ♃	-20°54'42"	00°53'28"	00°24'10"	1.030
13/03/2048 00:00:00	♃	21°42'58" ♃	17°27'14"	-00°45'41"	00°10'23"	5.466
13/03/2048 00:00:00	♃	14°33'14" ♃	-22°01'38"	00°36'54"	00°03'56"	10.363
13/03/2048 00:00:00	♃	08°31'38" ♃	09°07'26"	00°48'45"	-00°02'31"	17.334
13/03/2048 00:00:00	♃	19°21'05" ♃	15°54'38"	-01°42'52"	00°01'25"	30.356

Ephemerides year 2048

13/03/2048 00:00:00	♁	06°44'19" ♈	-20°14'08"	-12°05'57"	00°01'36"	41.945
13/03/2048 00:00:00	♁	03°23'25" ♈	-23°23'23"	00°00'00"	-00°10'50"	0.002
13/03/2048 00:00:00	♁	11°24'43" ♈	-14°25'40"	00°51'56"	-00°02'00"	8.033
13/03/2048 00:00:00	♁	04°32'40" ♈	23°26'54" ♀	02°26'49"	00°06'39"	0.003
13/03/2048 00:00:00	♁	03°23'25" ♈	-23°23'23"	00°00'00"	-00°10'50"	0.002
13/03/2048 00:00:00	♁	11°20'42" ♈	24°00'10" ♀	01°53'10"	03°11'17"	0.003
13/03/2048 00:00:00	X	00°02'05" ♄	05°54'37"	-05°56'36"	00°00'32"	93.930
13/03/2048 00:00:00	Y	15°52'11" ♈	11°38'45"	-11°05'44"	00°00'11"	78.527
14/03/2048 00:00:00	♁	24°05'04" ♈	-02°20'55"	00°00'00"	00°59'50"	0.994
14/03/2048 00:00:00	♁	16°50'52" ♈	-00°45'44"	04°48'19"	13°04'37"	0.003
14/03/2048 00:00:00	♁	03°49'05" ♈	-12°05'41"	-02°08'07"	01°33'22"	1.227
14/03/2048 00:00:00	♁	04°33'15" ♈	-10°57'18"	-01°11'59"	01°14'22"	1.584
14/03/2048 00:00:00	♁	09°23'29" ♈	-20°59'13"	00°52'34"	00°23'53"	1.020
14/03/2048 00:00:00	♁	21°53'24" ♄	17°30'07"	-00°45'29"	00°10'29"	5.480
14/03/2048 00:00:00	♁	14°37'08" ♈	-22°01'14"	00°36'53"	00°03'51"	10.347
14/03/2048 00:00:00	♁	08°29'07" ♈	09°08'22"	00°48'45"	-00°02'30"	17.339
14/03/2048 00:00:00	♁	19°22'30" ♄	15°55'04"	-01°42'49"	00°01'26"	30.371
14/03/2048 00:00:00	♁	06°45'56" ♈	-20°13'38"	-12°06'05"	00°01'36"	41.941
14/03/2048 00:00:00	♁	03°11'29" ♈	-23°23'41"	00°00'00"	-00°12'51"	0.002

Ephemerides year 2048

14/03/2048 00:00:00	♁	11°22'39" ♍	-14°24'37"	00°52'22"	-00°02'07"	8.022
14/03/2048 00:00:00	♁	04°39'19" ♍	23°27'22" ♁	02°26'02"	00°06'39"	0.003
14/03/2048 00:00:00	♁	03°11'29" ♍	-23°23'41"	00°00'00"	-00°12'51"	0.002
14/03/2048 00:00:00	♁	13°43'46" ♍	24°06'07" ♁	01°40'18"	01°34'17"	0.003
14/03/2048 00:00:00	X	00°02'37" ♍	05°54'52"	-05°56'31"	00°00'32"	93.940
14/03/2048 00:00:00	Y	15°52'23" ♍	11°38'56"	-11°05'35"	00°00'12"	78.543
15/03/2048 00:00:00	♁	25°04'54" ♍	-01°57'13"	00°00'00"	00°59'48"	0.994
15/03/2048 00:00:00	♁	29°48'33" ♍	04°30'25"	04°59'45"	12°50'31"	0.003
15/03/2048 00:00:00	♁	05°23'05" ♍	-11°33'31"	-02°10'35"	01°34'36"	1.237
15/03/2048 00:00:00	♁	05°47'37" ♍	-10°31'21"	-01°13'26"	01°14'22"	1.588
15/03/2048 00:00:00	♁	09°47'13" ♍	-21°03'40"	00°51'39"	00°23'35"	1.011
15/03/2048 00:00:00	♁	22°03'57" ♍	17°33'01"	-00°45'17"	00°10'35"	5.494
15/03/2048 00:00:00	♁	14°40'57" ♍	-22°00'50"	00°36'52"	00°03'46"	10.331
15/03/2048 00:00:00	♁	08°26'37" ♍	09°09'18"	00°48'44"	-00°02'29"	17.343
15/03/2048 00:00:00	♁	19°23'58" ♍	15°55'31"	-01°42'46"	00°01'28"	30.385
15/03/2048 00:00:00	♁	06°47'32" ♍	-20°13'09"	-12°06'12"	00°01'35"	41.936
15/03/2048 00:00:00	♁	02°58'05" ♍	-23°24'00"	00°00'00"	-00°13'43"	0.002
15/03/2048 00:00:00	♁	11°20'29" ♍	-14°23'33"	00°52'48"	-00°02'13"	8.010
15/03/2048 00:00:00	♁	04°45'59" ♍	23°27'50" ♁	02°25'16"	00°06'39"	0.003

Ephemerides year 2048

15/03/2048 00:00:00	T♄	02°58'05" ♉	-23°24'00"	00°00'00"	-00°13'43"	0.002
15/03/2048 00:00:00	T♄	14°31'34" ♉	24°06'43" ♁	01°35'11"	00°04'07"	0.003
15/03/2048 00:00:00	X	00°03'10" ♉	05°55'08"	-05°56'27"	00°00'32"	93.950
15/03/2048 00:00:00	Y	15°52'36" ♉	11°39'06"	-11°05'25"	00°00'13"	78.560
16/03/2048 00:00:00	☉	26°04'42" ♉	-01°33'29"	00°00'00"	00°59'46"	0.995
16/03/2048 00:00:00	☾	12°31'40" ♉	09°29'14"	04°55'55"	12°35'37"	0.003
16/03/2048 00:00:00	♁	06°58'18" ♉	-11°00'08"	-02°12'39"	01°35'49"	1.246
16/03/2048 00:00:00	♂	07°01'59" ♉	-10°05'06"	-01°14'50"	01°14'21"	1.592
16/03/2048 00:00:00	♂	10°10'40" ♉	-21°08'01"	00°50'42"	00°23'17"	1.001
16/03/2048 00:00:00	♂	22°14'36" ♉	17°35'56"	-00°45'05"	00°10'42"	5.507
16/03/2048 00:00:00	♂	14°44'40" ♉	-22°00'27"	00°36'51"	00°03'41"	10.316
16/03/2048 00:00:00	♂	08°24'08" ♉	09°10'13"	00°48'43"	-00°02'28"	17.348
16/03/2048 00:00:00	♂	19°25'27" ♉	15°55'57"	-01°42'43"	00°01'29"	30.399
16/03/2048 00:00:00	♂	06°49'07" ♉	-20°12'40"	-12°06'20"	00°01'35"	41.932
16/03/2048 00:00:00	♂	02°44'28" ♉	-23°24'17"	00°00'00"	-00°13'18"	0.002
16/03/2048 00:00:00	♂	11°18'13" ♉	-14°22'26"	00°53'13"	-00°02'19"	7.999
16/03/2048 00:00:00	♂	04°52'39" ♉	23°28'18" ♁	02°24'29"	00°06'39"	0.003
16/03/2048 00:00:00	T♄	02°44'28" ♉	-23°24'17"	00°00'00"	-00°13'18"	0.002
16/03/2048 00:00:00	T♄	14°00'32" ♉	24°04'30" ♁	01°36'39"	-01°00'45"	0.003

Ephemerides year 2048

16/03/2048 00:00:00	X	00°03'43" ♃	05°55'23"	-05°56'23"	00°00'33"	93.960
16/03/2048 00:00:00	Y	15°52'50" ♃	11°39'17"	-11°05'16"	00°00'14"	78.576
17/03/2048 00:00:00	☉	27°04'28" ♃	-01°09'46"	00°00'00"	00°59'44"	0.995
17/03/2048 00:00:00	☾	24°59'54" ♃	13°58'49"	04°37'52"	12°20'56"	0.003
17/03/2048 00:00:00	♀	08°34'44" ♃	-10°25'32"	-02°14'17"	01°37'03"	1.255
17/03/2048 00:00:00	♀	08°16'21" ♃	-09°38'35"	-01°16'10"	01°14'21"	1.595
17/03/2048 00:00:00	♂	10°33'48" ♃	-21°12'17"	00°49'44"	00°22'59"	0.991
17/03/2048 00:00:00	♃	22°25'21" ♃	17°38'51"	-00°44'54"	00°10'48"	5.521
17/03/2048 00:00:00	♃	14°48'19" ♃	-22°00'04"	00°36'50"	00°03'36"	10.300
17/03/2048 00:00:00	♃	08°21'41" ♃	09°11'07"	00°48'42"	-00°02'26"	17.353
17/03/2048 00:00:00	♃	19°26'58" ♃	15°56'25"	-01°42'40"	00°01'31"	30.413
17/03/2048 00:00:00	♃	06°50'42" ♃	-20°12'11"	-12°06'29"	00°01'34"	41.927
17/03/2048 00:00:00	♃	02°31'52" ♃	-23°24'32"	00°00'00"	-00°11'44"	0.002
17/03/2048 00:00:00	♃	11°15'51" ♃	-14°21'18"	00°53'39"	-00°02'24"	7.988
17/03/2048 00:00:00	♃	04°59'18" ♃	23°28'45" ○	02°23'42"	00°06'39"	0.003
17/03/2048 00:00:00	T♃	02°31'52" ♃	-23°24'32"	00°00'00"	-00°11'44"	0.002
17/03/2048 00:00:00	T♃	12°41'58" ♃	24°00'13" ○	01°42'12"	-01°30'23"	0.003
17/03/2048 00:00:00	X	00°04'17" ♃	05°55'39"	-05°56'18"	00°00'33"	93.969
17/03/2048 00:00:00	Y	15°53'04" ♃	11°39'27"	-11°05'07"	00°00'14"	78.592

Ephemerides year 2048

18/03/2048 00:00:00	☉	28°04'12" ♈	-00°46'01"	00°00'00"	00°59'42"	0.995
18/03/2048 00:00:00	☾	07°14'01" ♉	17°48'49"	04°07'12"	12°07'38"	0.003
18/03/2048 00:00:00	♁	10°12'24" ♈	-09°49'45"	-02°15'28"	01°38'16"	1.264
18/03/2048 00:00:00	♂	09°30'42" ♈	-09°11'48"	-01°17'26"	01°14'21"	1.599
18/03/2048 00:00:00	♂	10°56'38" ♈	-21°16'29"	00°48'44"	00°22'40"	0.982
18/03/2048 00:00:00	♃	22°36'12" ♉	17°41'48"	-00°44'42"	00°10'54"	5.534
18/03/2048 00:00:00	♄	14°51'53" ♉	-21°59'41"	00°36'49"	00°03'31"	10.284
18/03/2048 00:00:00	♅	08°19'15" ♉	09°12'01"	00°48'42"	-00°02'25"	17.358
18/03/2048 00:00:00	♆	19°28'30" ♉	15°56'52"	-01°42'38"	00°01'33"	30.427
18/03/2048 00:00:00	♇	06°52'17" ♈	-20°11'43"	-12°06'37"	00°01'34"	41.922
18/03/2048 00:00:00	♈	02°21'17" ♉	-23°24'44"	00°00'00"	-00°09'18"	0.002
18/03/2048 00:00:00	♉	11°13'23" ♉	-14°20'08"	00°54'04"	-00°02'30"	7.977
18/03/2048 00:00:00	♊	05°05'58" ♈	23°29'12" ♈	02°22'55"	00°06'39"	0.003
18/03/2048 00:00:00	♋	02°21'17" ♉	-23°24'44"	00°00'00"	-00°09'18"	0.002
18/03/2048 00:00:00	♌	11°10'20" ♈	23°54'38" ♈	01°49'02"	-01°28'40"	0.003
18/03/2048 00:00:00	X	00°04'51" ♉	05°55'55"	-05°56'14"	00°00'34"	93.978
18/03/2048 00:00:00	Y	15°53'20" ♈	11°39'37"	-11°04'58"	00°00'15"	78.608
19/03/2048 00:00:00	☉	29°03'54" ♈	-00°22'18"	00°00'00"	00°59'40"	0.996
19/03/2048 00:00:00	☾	19°16'04" ♉	20°50'15"	03°25'51"	11°56'57"	0.003



Ephemerides year 2048

19/03/2048 00:00:00	♀	11°51'18" ♈	-09°12'45"	-02°16'14"	01°39'30"	1.273
19/03/2048 00:00:00	♀	10°45'03" ♈	-08°44'47"	-01°18'39"	01°14'20"	1.602
19/03/2048 00:00:00	♂	11°19'09" ♉	-21°20'36"	00°47'43"	00°22'21"	0.972
19/03/2048 00:00:00	♋	22°47'10" ♉	17°44'45"	-00°44'31"	00°11'00"	5.547
19/03/2048 00:00:00	♌	14°55'21" ♌	-21°59'19"	00°36'48"	00°03'26"	10.268
19/03/2048 00:00:00	♍	08°16'50" ♌	09°12'55"	00°48'41"	-00°02'24"	17.364
19/03/2048 00:00:00	♎	19°30'04" ♌	15°57'20"	-01°42'35"	00°01'34"	30.440
19/03/2048 00:00:00	♏	06°53'51" ♈	-20°11'16"	-12°06'46"	00°01'33"	41.917
19/03/2048 00:00:00	♐	02°13'23" ♌	-23°24'52"	00°00'00"	-00°06'28"	0.002
19/03/2048 00:00:00	♑	11°10'50" ♌	-14°18'57"	00°54'30"	-00°02'36"	7.967
19/03/2048 00:00:00	♒	05°12'37" ♌	23°29'38"	02°22'08"	00°06'39"	0.003
19/03/2048 00:00:00	♓	02°13'23" ♌	-23°24'52"	00°00'00"	-00°06'28"	0.002
19/03/2048 00:00:00	♈	09°50'19" ♌	23°49'04"	01°55'08"	-01°09'54"	0.003
19/03/2048 00:00:00	X	00°05'25" ♉	05°56'10"	-05°56'10"	00°00'34"	93.987
19/03/2048 00:00:00	Y	15°53'36" ♌	11°39'48"	-11°04'49"	00°00'16"	78.625
20/03/2048 00:00:00	♈	00°03'34" ♉	00°01'25"	00°00'00"	00°59'38"	0.996
20/03/2048 00:00:00	♉	01°09'10" ♌	22°55'40"	02°35'54"	11°49'56"	0.003
20/03/2048 00:00:00	♀	13°31'25" ♈	-08°34'36"	-02°16'32"	01°40'45"	1.281
20/03/2048 00:00:00	♀	11°59'23" ♈	-08°17'31"	-01°19'47"	01°14'20"	1.606

Ephemerides year 2048

20/03/2048 00:00:00	♂	11°41'20" ♂	-21°24'38"	00°46'40"	00°22'01"	0.963
20/03/2048 00:00:00	♃	22°58'12" ♂	17°47'43"	-00°44'20"	00°11'05"	5.560
20/03/2048 00:00:00	♅	14°58'45" ♀	-21°58'58"	00°36'47"	00°03'20"	10.252
20/03/2048 00:00:00	♁	08°14'26" ♃	09°13'48"	00°48'40"	-00°02'22"	17.370
20/03/2048 00:00:00	♆	19°31'39" ♂	15°57'48"	-01°42'32"	00°01'36"	30.453
20/03/2048 00:00:00	♁	06°55'25" ♀	-20°10'48"	-12°06'55"	00°01'33"	41.911
20/03/2048 00:00:00	♁	02°08'18" ♀	-23°24'57"	00°00'00"	-00°03'43"	0.002
20/03/2048 00:00:00	♃	11°08'11" ♃	-14°17'43"	00°54'55"	-00°02'41"	7.957
20/03/2048 00:00:00	♁	05°19'17" ♀	23°30'04" ○	02°21'21"	00°06'39"	0.003
20/03/2048 00:00:00	♁	02°08'18" ♀	-23°24'57"	00°00'00"	-00°03'43"	0.002
20/03/2048 00:00:00	♁	08°50'49" ♀	23°44'32" ○	01°59'46"	-00°50'04"	0.003
20/03/2048 00:00:00	X	00°05'59" ♂	05°56'26"	-05°56'06"	00°00'34"	93.996
20/03/2048 00:00:00	Y	15°53'53" ♀	11°39'59"	-11°04'40"	00°00'17"	78.641
21/03/2048 00:00:00	♁	01°03'11" ♀	00°25'07"	00°00'00"	00°59'36"	0.996
21/03/2048 00:00:00	♁	12°57'29" ♀	23°59'30" ○	01°39'28"	11°47'30"	0.003
21/03/2048 00:00:00	♁	15°12'48" ♀	-07°55'16"	-02°16'23"	01°42'00"	1.289
21/03/2048 00:00:00	♀	13°13'43" ♀	-07°50'02"	-01°20'52"	01°14'19"	1.609
21/03/2048 00:00:00	♂	12°03'11" ♂	-21°28'36"	00°45'36"	00°21'41"	0.953
21/03/2048 00:00:00	♃	23°09'21" ♂	17°50'41"	-00°44'09"	00°11'11"	5.573

Ephemerides year 2048

21/03/2048 00:00:00	♃	15°02'03" ♁	-21°58'37"	00°36'46"	00°03'15"	10.235
21/03/2048 00:00:00	♃	08°12'04" ♃	09°14'40"	00°48'39"	-00°02'21"	17.376
21/03/2048 00:00:00	♃	19°33'16" ♁	15°58'17"	-01°42'29"	00°01'37"	30.467
21/03/2048 00:00:00	♃	06°56'58" ♃	-20°10'22"	-12°07'05"	00°01'32"	41.905
21/03/2048 00:00:00	♃	02°05'45" ♁	-23°24'59"	00°00'00"	-00°01'31"	0.002
21/03/2048 00:00:00	♃	11°05'27" ♃	-14°16'28"	00°55'21"	-00°02'47"	7.947
21/03/2048 00:00:00	♃	05°25'57" ♃	23°30'30" ○	02°20'33"	00°06'39"	0.003
21/03/2048 00:00:00	♃	02°05'45" ♁	-23°24'59"	00°00'00"	-00°01'31"	0.002
21/03/2048 00:00:00	♃	08°06'35" ♃	23°41'00" ○	02°03'20"	-00°40'47"	0.003
21/03/2048 00:00:00	X	00°06'35" ♁	05°56'42"	-05°56'02"	00°00'35"	94.004
21/03/2048 00:00:00	Y	15°54'11" ♃	11°40'09"	-11°04'31"	00°00'18"	78.657
22/03/2048 00:00:00	♃	02°02'46" ♃	00°48'49"	00°00'00"	00°59'34"	0.996
22/03/2048 00:00:00	♃	24°45'54" ♃	23°58'26" ○	00°38'41"	11°50'15"	0.003
22/03/2048 00:00:00	♃	16°55'26" ♃	-07°14'46"	-02°15'47"	01°43'15"	1.296
22/03/2048 00:00:00	♃	14°28'02" ♃	-07°22'20"	-01°21'53"	01°14'19"	1.612
22/03/2048 00:00:00	♃	12°24'43" ♃	-21°32'30"	00°44'30"	00°21'21"	0.944
22/03/2048 00:00:00	♃	23°20'35" ♁	17°53'40"	-00°43'58"	00°11'16"	5.586
22/03/2048 00:00:00	♃	15°05'17" ♁	-21°58'16"	00°36'45"	00°03'10"	10.219
22/03/2048 00:00:00	♃	08°09'44" ♃	09°15'31"	00°48'38"	-00°02'19"	17.382

Ephemerides year 2048

22/03/2048 00:00:00	♁	19°34'54"	♏	15°58'46"	-01°42'26"	00°01'38"	30.479
22/03/2048 00:00:00	♁	06°58'30"	♏	-20°09'55"	-12°07'14"	00°01'32"	41.899
22/03/2048 00:00:00	♁	02°04'57"	♏	-23°25'00"	00°00'00"	-00°00'14"	0.002
22/03/2048 00:00:00	♁	11°02'37"	♏	-14°15'12"	00°55'46"	-00°02'52"	7.937
22/03/2048 00:00:00	♁	05°32'36"	♏	23°30'55"	♁ 02°19'46"	00°06'39"	0.003
22/03/2048 00:00:00	T♁	02°04'57"	♏	-23°25'00"	00°00'00"	-00°00'14"	0.002
22/03/2048 00:00:00	T♁	07°23'39"	♏	23°37'24"	♁ 02°06'50"	-00°48'03"	0.003
22/03/2048 00:00:00	X	00°07'10"	♏	05°56'58"	-05°55'58"	00°00'35"	94.012
22/03/2048 00:00:00	Y	15°54'29"	♏	11°40'20"	-11°04'22"	00°00'18"	78.673
23/03/2048 00:00:00	♁	03°02'19"	♏	01°12'28"	-00°00'00"	00°59'31"	0.997
23/03/2048 00:00:00	♁	06°39'50"	♏	22°51'41"	-00°24'16"	11°58'32"	0.003
23/03/2048 00:00:00	♁	18°39'20"	♏	-06°33'08"	-02°14'42"	01°44'32"	1.304
23/03/2048 00:00:00	♁	15°42'21"	♏	-06°54'27"	-01°22'50"	01°14'18"	1.616
23/03/2048 00:00:00	♁	12°45'53"	♏	-21°36'20"	00°43'22"	00°21'00"	0.935
23/03/2048 00:00:00	♁	23°31'55"	♏	17°56'40"	-00°43'47"	00°11'22"	5.598
23/03/2048 00:00:00	♁	15°08'25"	♏	-21°57'56"	00°36'44"	00°03'05"	10.203
23/03/2048 00:00:00	♁	08°07'24"	♏	09°16'22"	00°48'37"	-00°02'18"	17.389
23/03/2048 00:00:00	♁	19°36'34"	♏	15°59'15"	-01°42'24"	00°01'40"	30.492
23/03/2048 00:00:00	♁	07°00'02"	♏	-20°09'29"	-12°07'24"	00°01'31"	41.893

Ephemerides year 2048

23/03/2048 00:00:00	♏	02°04'54" ♁	-23°25'00"	00°00'00"	-00°00'04"	0.002
23/03/2048 00:00:00	♋	10°59'42" ♎	-14°13'54"	00°56'11"	-00°02'57"	7.927
23/03/2048 00:00:00	♌	05°39'16" ♀	23°31'20" ♁	02°18'59"	00°06'39"	0.003
23/03/2048 00:00:00	♏	02°04'54" ♁	-23°25'00"	00°00'00"	-00°00'04"	0.002
23/03/2048 00:00:00	♌	06°24'29" ♀	23°32'00" ♁	02°11'34"	-01°13'06"	0.003
23/03/2048 00:00:00	X	00°07'46" ♁	05°57'14"	-05°55'54"	00°00'35"	94.020
23/03/2048 00:00:00	Y	15°54'48" ♀	11°40'31"	-11°04'13"	00°00'19"	78.688
24/03/2048 00:00:00	♁	04°01'50" ♀	01°36'06"	-00°00'00"	00°59'29"	0.997
24/03/2048 00:00:00	♃	18°44'51" ♁	20°41'02"	-01°27'06"	12°12'23"	0.003
24/03/2048 00:00:00	♌	20°24'31" ♀	-05°50'22"	-02°13'09"	01°45'49"	1.310
24/03/2048 00:00:00	♌	16°56'39" ♀	-06°26'22"	-01°23'43"	01°14'17"	1.619
24/03/2048 00:00:00	♈	13°06'43" ♁	-21°40'05"	00°42'13"	00°20'38"	0.925
24/03/2048 00:00:00	♉	23°43'20" ♁	17°59'40"	-00°43'36"	00°11'27"	5.611
24/03/2048 00:00:00	♌	15°11'27" ♁	-21°57'36"	00°36'43"	00°02'59"	10.186
24/03/2048 00:00:00	♎	08°05'07" ♎	09°17'13"	00°48'36"	-00°02'16"	17.396
24/03/2048 00:00:00	♌	19°38'15" ♁	15°59'45"	-01°42'21"	00°01'41"	30.505
24/03/2048 00:00:00	♌	07°01'33" ♀	-20°09'04"	-12°07'34"	00°01'30"	41.886
24/03/2048 00:00:00	♏	02°04'26" ♁	-23°25'01"	00°00'00"	-00°01'03"	0.002
24/03/2048 00:00:00	♋	10°56'42" ♎	-14°12'34"	00°56'37"	-00°03'02"	7.918

Ephemerides year 2048

24/03/2048 00:00:00	☾	05°45'56" ♀	23°31'44" ♀	02°18'11" ♀	00°06'39" ♀	0.003
24/03/2048 00:00:00	♄	02°04'26" ♀	-23°25'01" ♀	00°00'00" ♀	-00°01'03" ♀	0.002
24/03/2048 00:00:00	♄	04°52'36" ♀	23°22'36" ♀	02°18'42" ♀	-01°52'27" ♀	0.003
24/03/2048 00:00:00	X	00°08'21" ♀	05°57'30" ♀	-05°55'50" ♀	00°00'36" ♀	94.027
24/03/2048 00:00:00	Y	15°55'08" ♀	11°40'41" ♀	-11°04'04" ♀	00°00'20" ♀	78.704
25/03/2048 00:00:00	☉	05°01'18" ♀	01°59'41" ♀	-00°00'00" ♀	00°59'27" ♀	0.997
25/03/2048 00:00:00	☾	01°06'20" ♀	17°30'43" ♀	-02°27'13" ♀	12°31'21" ♀	0.003
25/03/2048 00:00:00	♁	22°11'00" ♀	-05°06'29" ♀	-02°11'07" ♀	01°47'07" ♀	1.316
25/03/2048 00:00:00	♂	18°10'57" ♀	-05°58'06" ♀	-01°24'33" ♀	01°14'17" ♀	1.622
25/03/2048 00:00:00	♂	13°27'11" ♀	-21°43'47" ♀	00°41'02" ♀	00°20'17" ♀	0.916
25/03/2048 00:00:00	♃	23°54'50" ♀	18°02'41" ♀	-00°43'25" ♀	00°11'32" ♀	5.623
25/03/2048 00:00:00	♃	15°14'24" ♀	-21°57'17" ♀	00°36'42" ♀	00°02'54" ♀	10.170
25/03/2048 00:00:00	♃	08°02'51" ♀	09°18'02" ♀	00°48'34" ♀	-00°02'14" ♀	17.403
25/03/2048 00:00:00	♃	19°39'57" ♀	16°00'15" ♀	-01°42'19" ♀	00°01'42" ♀	30.517
25/03/2048 00:00:00	♃	07°03'04" ♀	-20°08'39" ♀	-12°07'45" ♀	00°01'30" ♀	41.879
25/03/2048 00:00:00	♄	02°02'28" ♀	-23°25'03" ♀	00°00'00" ♀	-00°03'00" ♀	0.002
25/03/2048 00:00:00	♃	10°53'37" ♀	-14°11'12" ♀	00°57'02" ♀	-00°03'07" ♀	7.909
25/03/2048 00:00:00	☾	05°52'35" ♀	23°32'09" ♀	02°17'24" ♀	00°06'39" ♀	0.003
25/03/2048 00:00:00	♄	02°02'28" ♀	-23°25'03" ♀	00°00'00" ♀	-00°03'00" ♀	0.002

Ephemerides year 2048

25/03/2048 00:00:00	T♄	02°37'46" ♀	23°06'45"	02°28'49"	-02°37'01"	0.003
25/03/2048 00:00:00	X	00°08'58" ♂	05°57'46"	-05°55'46"	00°00'36"	94.035
25/03/2048 00:00:00	Y	15°55'29" ♀	11°40'52"	-11°03'56"	00°00'21"	78.720
26/03/2048 00:00:00	☉	06°00'44" ♀	02°23'13"	-00°00'00"	00°59'24"	0.997
26/03/2048 00:00:00	☾	13°48'58" ♀	13°27'11"	-03°21'43"	12°54'29"	0.003
26/03/2048 00:00:00	♁	23°58'46" ♀	-04°21'30"	-02°08'36"	01°48'25"	1.322
26/03/2048 00:00:00	♂	19°25'14" ♀	-05°29'41"	-01°25'18"	01°14'16"	1.625
26/03/2048 00:00:00	♂	13°47'17" ♀	-21°47'25"	00°39'49"	00°19'54"	0.907
26/03/2048 00:00:00	♂	24°06'25" ♂	18°05'42"	-00°43'15"	00°11'37"	5.635
26/03/2048 00:00:00	♃	15°17'16" ♀	-21°56'59"	00°36'41"	00°02'49"	10.153
26/03/2048 00:00:00	♃	08°00'37" ♀	09°18'51"	00°48'33"	-00°02'13"	17.411
26/03/2048 00:00:00	♃	19°41'41" ♂	16°00'45"	-01°42'16"	00°01'44"	30.529
26/03/2048 00:00:00	♃	07°04'34" ♀	-20°08'15"	-12°07'56"	00°01'29"	41.872
26/03/2048 00:00:00	♃	01°58'13" ♀	-23°25'06"	00°00'00"	-00°05'33"	0.002
26/03/2048 00:00:00	♃	10°50'26" ♀	-14°09'49"	00°57'27"	-00°03'12"	7.900
26/03/2048 00:00:00	♃	05°59'15" ♀	23°32'32" ○	02°16'36"	00°06'39"	0.003
26/03/2048 00:00:00	T♃	01°58'13" ♀	-23°25'06"	00°00'00"	-00°05'33"	0.002
26/03/2048 00:00:00	T♄	29°41'34" ♂	22°42'32"	02°41'32"	-03°12'31"	0.003
26/03/2048 00:00:00	X	00°09'34" ♂	05°58'02"	-05°55'42"	00°00'36"	94.042

Ephemerides year 2048

26/03/2048 00:00:00	Y	15°55'50" ♀	11°41'03"	-11°03'47"	00°00'21"	78.735
27/03/2048 00:00:00	☉	07°00'07" ♀	02°46'43"	-00°00'00"	00°59'22"	0.998
27/03/2048 00:00:00	☾	26°56'11" ♀	08°39'08"	-04°07'21"	13°20'12"	0.003
27/03/2048 00:00:00	♁	25°47'52" ♀	-03°35'27"	-02°05'35"	01°49'45"	1.327
27/03/2048 00:00:00	♂	20°39'30" ♀	-05°01'07"	-01°25'59"	01°14'16"	1.628
27/03/2048 00:00:00	♊	14°07'01" ♀	-21°50'59"	00°38'35"	00°19'32"	0.898
27/03/2048 00:00:00	♋	24°18'05" ♀	18°08'44"	-00°43'04"	00°11'42"	5.648
27/03/2048 00:00:00	♌	15°20'03" ♀	-21°56'41"	00°36'40"	00°02'43"	10.137
27/03/2048 00:00:00	♍	07°58'25" ♀	09°19'40"	00°48'32"	-00°02'11"	17.419
27/03/2048 00:00:00	♎	19°43'25" ♀	16°01'15"	-01°42'14"	00°01'45"	30.541
27/03/2048 00:00:00	♏	07°06'03" ♀	-20°07'51"	-12°08'07"	00°01'28"	41.865
27/03/2048 00:00:00	♐	01°51'19" ♀	-23°25'13"	00°00'00"	-00°08'13"	0.002
27/03/2048 00:00:00	♑	10°47'11" ♀	-14°08'25"	00°57'52"	-00°03'17"	7.891
27/03/2048 00:00:00	♒	06°05'54" ♀	23°32'56" ♀	02°15'48"	00°06'39"	0.003
27/03/2048 00:00:00	T♁	01°51'19" ♀	-23°25'13"	00°00'00"	-00°08'13"	0.002
27/03/2048 00:00:00	T♂	26°20'39" ♀	22°10'17"	02°55'22"	-03°24'30"	0.003
27/03/2048 00:00:00	X	00°10'11" ♀	05°58'18"	-05°55'38"	00°00'36"	94.049
27/03/2048 00:00:00	Y	15°56'13" ♀	11°41'14"	-11°03'38"	00°00'22"	78.751
28/03/2048 00:00:00	☉	07°59'29" ♀	03°10'09"	-00°00'00"	00°59'20"	0.998



Ephemerides year 2048

28/03/2048 00:00:00	♃	10°29'30"	♈	03°17'52"	-04°40'41"	13°46'17"	0.003
28/03/2048 00:00:00	♆	27°38'16"	♈	-02°48'21"	-02°02'04"	01°51'04"	1.332
28/03/2048 00:00:00	♀	21°53'46"	♈	-04°32'24"	-01°26'37"	01°14'15"	1.632
28/03/2048 00:00:00	♂	14°26'22"	♈	-21°54'30"	00°37'18"	00°19'09"	0.888
28/03/2048 00:00:00	♃	24°29'50"	♈	18°11'46"	-00°42'54"	00°11'47"	5.659
28/03/2048 00:00:00	♄	15°22'44"	♈	-21°56'24"	00°36'39"	00°02'38"	10.120
28/03/2048 00:00:00	♅	07°56'14"	♈	09°20'27"	00°48'31"	-00°02'09"	17.427
28/03/2048 00:00:00	♆	19°45'12"	♈	16°01'46"	-01°42'11"	00°01'46"	30.553
28/03/2048 00:00:00	♁	07°07'31"	♈	-20°07'28"	-12°08'18"	00°01'28"	41.857
28/03/2048 00:00:00	♂	01°41'56"	♈	-23°25'20"	00°00'00"	-00°10'27"	0.002
28/03/2048 00:00:00	♃	10°43'52"	♈	-14°06'59"	00°58'17"	-00°03'22"	7.883
28/03/2048 00:00:00	♁	06°12'34"	♈	23°33'19"	♄ 02°15'01"	00°06'39"	0.003
28/03/2048 00:00:00	♁	01°41'56"	♈	-23°25'20"	00°00'00"	-00°10'27"	0.002
28/03/2048 00:00:00	♁	23°02'18"	♈	21°33'46"	03°08'19"	-03°07'43"	0.003
28/03/2048 00:00:00	X	00°10'48"	♈	05°58'34"	-05°55'35"	00°00'36"	94.055
28/03/2048 00:00:00	Y	15°56'35"	♈	11°41'25"	-11°03'30"	00°00'23"	78.766
29/03/2048 00:00:00	♁	08°58'48"	♈	03°33'31"	-00°00'00"	00°59'18"	0.998
29/03/2048 00:00:00	♃	24°28'01"	♈	-02°22'14"	-04°58'28"	14°10'07"	0.002
29/03/2048 00:00:00	♆	29°30'01"	♈	-02°00'13"	-01°58'03"	01°52'24"	1.336

Ephemerides year 2048

29/03/2048 00:00:00	♀	23°08'02" ♈	-04°03'33"	-01°27'10"	01°14'15"	1.635
29/03/2048 00:00:00	♂	14°45'19" ♈	-21°57'57"	00°36'00"	00°18'45"	0.879
29/03/2048 00:00:00	♃	24°41'39" ♈	18°14'48"	-00°42'44"	00°11'51"	5.671
29/03/2048 00:00:00	♅	15°25'19" ♈	-21°56'07"	00°36'38"	00°02'32"	10.104
29/03/2048 00:00:00	♁	07°54'05" ♉	09°21'14"	00°48'29"	-00°02'07"	17.435
29/03/2048 00:00:00	♆	19°46'59" ♈	16°02'17"	-01°42'09"	00°01'47"	30.564
29/03/2048 00:00:00	♁	07°08'59" ♈	-20°07'05"	-12°08'30"	00°01'27"	41.849
29/03/2048 00:00:00	♁	01°30'44" ♈	-23°25'28"	00°00'00"	-00°11'45"	0.002
29/03/2048 00:00:00	♁	10°40'27" ♉	-14°05'32"	00°58'43"	-00°03'26"	7.875
29/03/2048 00:00:00	♁	06°19'13" ♈	23°33'42" ♁	02°14'13"	00°06'39"	0.003
29/03/2048 00:00:00	♁	01°30'44" ♈	-23°25'28"	00°00'00"	-00°11'45"	0.002
29/03/2048 00:00:00	♁	20°11'55" ♈	20°58'50"	03°18'49"	-02°31'06"	0.003
29/03/2048 00:00:00	X	00°11'25" ♈	05°58'50"	-05°55'31"	00°00'37"	94.061
29/03/2048 00:00:00	Y	15°56'59" ♈	11°41'35"	-11°03'21"	00°00'23"	78.782
30/03/2048 00:00:00	♁	09°58'05" ♈	03°56'49"	-00°00'00"	00°59'16"	0.999
30/03/2048 00:00:00	♁	08°48'07" ♈	-08°03'15"	-04°58'11"	14°29'00"	0.002
30/03/2048 00:00:00	♁	01°23'06" ♈	-01°11'06"	-01°53'31"	01°53'44"	1.340
30/03/2048 00:00:00	♀	24°22'17" ♈	-03°34'36"	-01°27'39"	01°14'14"	1.638
30/03/2048 00:00:00	♂	15°03'53" ♈	-22°01'21"	00°34'40"	00°18'21"	0.870

Ephemerides year 2048

30/03/2048 00:00:00	♈	24°53'34" ♂	18°17'50"	-00°42'34"	00°11'56"	5.683
30/03/2048 00:00:00	♉	15°27'49" ♀	-21°55'51"	00°36'37"	00°02'27"	10.087
30/03/2048 00:00:00	♊	07°51'59" ♀	09°22'00"	00°48'28"	-00°02'05"	17.444
30/03/2048 00:00:00	♋	19°48'47" ♂	16°02'48"	-01°42'06"	00°01'49"	30.576
30/03/2048 00:00:00	♌	07°10'26" ♀	-20°06'43"	-12°08'42"	00°01'26"	41.841
30/03/2048 00:00:00	♍	01°18'49" ♀	-23°25'36"	00°00'00"	-00°11'49"	0.002
30/03/2048 00:00:00	♎	10°36'58" ♀	-14°04'03"	00°59'08"	-00°03'31"	7.867
30/03/2048 00:00:00	♏	06°25'53" ♀	23°34'04" ○	02°13'25"	00°06'39"	0.003
30/03/2048 00:00:00	T♍	01°18'49" ♀	-23°25'36"	00°00'00"	-00°11'49"	0.002
30/03/2048 00:00:00	T♎	18°00'46" ♂	20°29'47"	03°26'32"	-01°52'18"	0.003
30/03/2048 00:00:00	X	00°12'02" ♂	05°59'07"	-05°55'28"	00°00'37"	94.067
30/03/2048 00:00:00	Y	15°57'23" ♀	11°41'46"	-11°03'12"	00°00'24"	78.797
31/03/2048 00:00:00	♐	10°57'20" ♀	04°20'03"	-00°00'00"	00°59'14"	0.999
31/03/2048 00:00:00	♑	23°23'43" ♀	-13°23'45"	-04°38'39"	14°40'54"	0.002
31/03/2048 00:00:00	♒	03°17'31" ♀	-00°21'02"	-01°48'28"	01°55'04"	1.342
31/03/2048 00:00:00	♓	25°36'31" ♀	-03°05'32"	-01°28'04"	01°14'14"	1.641
31/03/2048 00:00:00	♈	15°22'02" ♀	-22°04'42"	00°33'18"	00°17'56"	0.861
31/03/2048 00:00:00	♉	25°05'33" ♂	18°20'52"	-00°42'24"	00°12'01"	5.694
31/03/2048 00:00:00	♊	15°30'14" ♀	-21°55'35"	00°36'36"	00°02'21"	10.071

Ephemerides year 2048

31/03/2048 00:00:00	♃	07°49'54" ♃	09°22'45"	00°48'26"	-00°02'03"	17.453
31/03/2048 00:00:00	♃	19°50'37" ♃	16°03'20"	-01°42'04"	00°01'50"	30.587
31/03/2048 00:00:00	♃	07°11'52" ♃	-20°06'21"	-12°08'54"	00°01'25"	41.833
31/03/2048 00:00:00	♃	01°07'31" ♃	-23°25'42"	00°00'00"	-00°10'35"	0.002
31/03/2048 00:00:00	♃	10°33'25" ♃	-14°02'33"	00°59'32"	-00°03'35"	7.859
31/03/2048 00:00:00	♃	06°32'32" ♃	23°34'26" ♃	02°12'37"	00°06'39"	0.003
31/03/2048 00:00:00	♃	01°07'31" ♃	-23°25'42"	00°00'00"	-00°10'35"	0.002
31/03/2048 00:00:00	♃	16°22'35" ♃	20°06'57"	03°32'10"	-01°27'18"	0.003
31/03/2048 00:00:00	X	00°12'40" ♃	05°59'23"	-05°55'24"	00°00'37"	94.073
31/03/2048 00:00:00	Y	15°57'48" ♃	11°41'57"	-11°03'04"	00°00'25"	78.812
01/04/2048 00:00:00	♃	11°56'33" ♃	04°43'12"	-00°00'00"	00°59'12"	0.999
01/04/2048 00:00:00	♃	08°07'15" ♃	-18°00'03"	-04°00'30"	14°44'50"	0.002
01/04/2048 00:00:00	♃	05°13'15" ♃	00°29'56"	-01°42'54"	01°56'23"	1.345
01/04/2048 00:00:00	♃	26°50'45" ♃	-02°36'22"	-01°28'26"	01°14'13"	1.644
01/04/2048 00:00:00	♃	15°39'46" ♃	-22°07'59"	00°31'54"	00°17'31"	0.852
01/04/2048 00:00:00	♃	25°17'36" ♃	18°23'55"	-00°42'14"	00°12'05"	5.706
01/04/2048 00:00:00	♃	15°32'33" ♃	-21°55'20"	00°36'35"	00°02'16"	10.054
01/04/2048 00:00:00	♃	07°47'51" ♃	09°23'30"	00°48'25"	-00°02'01"	17.462
01/04/2048 00:00:00	♃	19°52'28" ♃	16°03'51"	-01°42'02"	00°01'51"	30.598

Ephemerides year 2048

01/04/2048 00:00:00	♁	07°13'17"	♈	-20°06'00"	-12°09'06"	00°01'25"	41.824
01/04/2048 00:00:00	♁	00°57'59"	♈	-23°25'47"	00°00'00"	-00°08'18"	0.002
01/04/2048 00:00:00	♁	10°29'48"	♈	-14°01'01"	00°59'57"	-00°03'39"	7.852
01/04/2048 00:00:00	♁	06°39'12"	♈	23°34'47"	♁ 02°11'49"	00°06'39"	0.003
01/04/2048 00:00:00	♁	00°57'59"	♈	-23°25'47"	00°00'00"	-00°08'18"	0.002
01/04/2048 00:00:00	♁	14°58'59"	♈	19°46'58"	03°37'04"	-01°23'22"	0.003
01/04/2048 00:00:00	X	00°13'18"	♈	05°59'39"	-05°55'21"	00°00'37"	94.078
01/04/2048 00:00:00	Y	15°58'14"	♈	11°42'08"	-11°02'56"	00°00'26"	78.827
02/04/2048 00:00:00	♁	12°55'44"	♈	05°06'17"	-00°00'00"	00°59'10"	0.999
02/04/2048 00:00:00	♁	22°50'53"	♈	-21°28'51"	-03°06'16"	14°41'16"	0.002
02/04/2048 00:00:00	♁	07°10'18"	♈	01°21'46"	-01°36'50"	01°57'41"	1.346
02/04/2048 00:00:00	♁	28°04'59"	♈	-02°07'08"	-01°28'43"	01°14'13"	1.647
02/04/2048 00:00:00	♁	15°57'04"	♈	-22°11'14"	00°30'28"	00°17'05"	0.844
02/04/2048 00:00:00	♁	25°29'44"	♈	18°26'58"	-00°42'04"	00°12'10"	5.717
02/04/2048 00:00:00	♁	15°34'46"	♈	-21°55'05"	00°36'34"	00°02'10"	10.037
02/04/2048 00:00:00	♁	07°45'51"	♈	09°24'13"	00°48'23"	-00°01'59"	17.471
02/04/2048 00:00:00	♁	19°54'20"	♈	16°04'23"	-01°41'59"	00°01'52"	30.608
02/04/2048 00:00:00	♁	07°14'42"	♈	-20°05'39"	-12°09'18"	00°01'24"	41.816
02/04/2048 00:00:00	♁	00°51'04"	♈	-23°25'49"	00°00'00"	-00°05'29"	0.002

Ephemerides year 2048

02/04/2048 00:00:00	♄	10°26'06" ♎	-13°59'29"	01°00'22"	-00°03'43"	7.845
02/04/2048 00:00:00	♁	06°45'51" ♈	23°35'08" ♋	02°11'01"	00°06'39"	0.003
02/04/2048 00:00:00	♁♁	00°51'04" ♎	-23°25'49"	00°00'00"	-00°05'29"	0.002
02/04/2048 00:00:00	♁♁	13°30'17" ♎	19°25'18"	03°42'25"	-01°35'36"	0.003
02/04/2048 00:00:00	X	00°13'56" ♎	05°59'55"	-05°55'17"	00°00'38"	94.084
02/04/2048 00:00:00	Y	15°58'40" ♈	11°42'18"	-11°02'47"	00°00'26"	78.841
03/04/2048 00:00:00	♁	13°54'54" ♎	05°29'16"	-00°00'00"	00°59'08"	1.000
03/04/2048 00:00:00	♁	07°27'47" ♎	-23°31'25" ♋	-02°00'04"	14°31'42"	0.002
03/04/2048 00:00:00	♁	09°08'38" ♎	02°14'25"	-01°30'14"	01°58'57"	1.346
03/04/2048 00:00:00	♁	29°19'13" ♎	-01°37'49"	-01°28'56"	01°14'13"	1.649
03/04/2048 00:00:00	♁	16°13'56" ♎	-22°14'26"	00°29'00"	00°16'38"	0.835
03/04/2048 00:00:00	♁	25°41'57" ♎	18°30'01"	-00°41'54"	00°12'14"	5.728
03/04/2048 00:00:00	♁	15°36'54" ♎	-21°54'52"	00°36'33"	00°02'05"	10.021
03/04/2048 00:00:00	♁	07°43'52" ♎	09°24'56"	00°48'22"	-00°01'57"	17.481
03/04/2048 00:00:00	♁	19°56'14" ♎	16°04'56"	-01°41'57"	00°01'53"	30.619
03/04/2048 00:00:00	♁	07°16'06" ♎	-20°05'19"	-12°09'31"	00°01'23"	41.807
03/04/2048 00:00:00	♁	00°46'59" ♎	-23°25'51"	00°00'00"	-00°02'44"	0.002
03/04/2048 00:00:00	♁	10°22'21" ♎	-13°57'55"	01°00'47"	-00°03'47"	7.838
03/04/2048 00:00:00	♁	06°52'31" ♈	23°35'29" ♋	02°10'13"	00°06'39"	0.003

Ephemerides year 2048

03/04/2048 00:00:00	T♄	00°46'59" ♉	-23°25'51"	00°00'00"	-00°02'44"	0.002
03/04/2048 00:00:00	T♄	11°48'13" ♉	18°59'38"	03°48'36"	-01°46'12"	0.003
03/04/2048 00:00:00	X	00°14'34" ♉	06°00'11"	-05°55'14"	00°00'38"	94.088
03/04/2048 00:00:00	Y	15°59'08" ♉	11°42'29"	-11°02'39"	00°00'27"	78.856
04/04/2048 00:00:00	☉	14°54'02" ♉	05°52'09"	-00°00'00"	00°59'06"	1.000
04/04/2048 00:00:00	☾	21°53'02" ♉	-23°57'51"	o-00°46'52"	14°18'18"	0.002
04/04/2048 00:00:00	♁	11°08'12" ♉	03°07'47"	-01°23'09"	02°00'10"	1.346
04/04/2048 00:00:00	♂	00°33'26" ♉	-01°08'26"	-01°29'05"	01°14'13"	1.652
04/04/2048 00:00:00	♂	16°30'22" ♉	-22°17'35"	00°27'30"	00°16'11"	0.826
04/04/2048 00:00:00	♂	25°54'13" ♉	18°33'04"	-00°41'44"	00°12'18"	5.738
04/04/2048 00:00:00	♂	15°38'57" ♉	-21°54'38"	00°36'32"	00°01'59"	10.004
04/04/2048 00:00:00	♂	07°41'56" ♉	09°25'38"	00°48'20"	-00°01'55"	17.491
04/04/2048 00:00:00	♂	19°58'08" ♉	16°05'28"	-01°41'55"	00°01'55"	30.629
04/04/2048 00:00:00	♂	07°17'29" ♉	-20°04'59"	-12°09'44"	00°01'22"	41.797
04/04/2048 00:00:00	♂	00°45'20" ♉	-23°25'51"	00°00'00"	-00°00'42"	0.002
04/04/2048 00:00:00	♂	10°18'32" ♉	-13°56'20"	01°01'12"	-00°03'51"	7.831
04/04/2048 00:00:00	♂	06°59'10" ♉	23°35'49"	o 02°09'25"	00°06'39"	0.003
04/04/2048 00:00:00	T♄	00°45'20" ♉	-23°25'51"	00°00'00"	-00°00'42"	0.002
04/04/2048 00:00:00	T♄	10°06'42" ♉	18°33'14"	03°54'38"	-01°30'30"	0.003

Ephemerides year 2048

04/04/2048 00:00:00	X	00°15'13" ♃	06°00'28"	-05°55'11"	00°00'38"	94.093
04/04/2048 00:00:00	Y	15°59'36" ♁	11°42'40"	-11°02'31"	00°00'28"	78.871
05/04/2048 00:00:00	☉	15°53'08" ♀	06°14'56"	-00°00'00"	00°59'05"	1.000
05/04/2048 00:00:00	☾	06°03'48" ♁	-22°49'32"	00°28'09"	14°03'06"	0.002
05/04/2048 00:00:00	♁	13°08'58" ♀	04°01'48"	-01°15'33"	02°01'20"	1.345
05/04/2048 00:00:00	♂	01°47'39" ♀	-00°39'01"	-01°29'10"	01°14'12"	1.655
05/04/2048 00:00:00	♂	16°46'19" ♁	-22°20'42"	00°25'58"	00°15'43"	0.817
05/04/2048 00:00:00	♃	26°06'34" ♃	18°36'07"	-00°41'35"	00°12'22"	5.749
05/04/2048 00:00:00	♅	15°40'53" ♁	-21°54'26"	00°36'31"	00°01'53"	9.987
05/04/2048 00:00:00	♁	07°40'02" ♃	09°26'19"	00°48'19"	-00°01'52"	17.501
05/04/2048 00:00:00	♁	20°00'04" ♃	16°06'01"	-01°41'53"	00°01'56"	30.639
05/04/2048 00:00:00	♁	07°18'51" ♃	-20°04'40"	-12°09'58"	00°01'21"	41.788
05/04/2048 00:00:00	♁	00°45'11" ♁	-23°25'51"	00°00'00"	00°00'11"	0.002
05/04/2048 00:00:00	♁	10°14'39" ♃	-13°54'44"	01°01'36"	-00°03'54"	7.825
05/04/2048 00:00:00	♁	07°05'50" ♁	23°36'09"	02°08'37"	00°06'39"	0.003
05/04/2048 00:00:00	T♁	00°45'11" ♁	-23°25'51"	00°00'00"	00°00'11"	0.002
05/04/2048 00:00:00	T♁	09°01'32" ♃	18°15'51"	03°58'27"	-00°32'35"	0.003
05/04/2048 00:00:00	X	00°15'52" ♃	06°00'44"	-05°55'08"	00°00'38"	94.097
05/04/2048 00:00:00	Y	16°00'04" ♁	11°42'51"	-11°02'23"	00°00'28"	78.885



Ephemerides year 2048

06/04/2048 00:00:00	♁	16°52'12" ♏	06°37'37"	00°00'00"	00°59'03"	1.001
06/04/2048 00:00:00	♃	19°59'11" ♏	-20°17'36"	01°40'12"	13°47'42"	0.003
06/04/2048 00:00:00	♁	15°10'51" ♏	04°56'23"	-01°07'29"	02°02'24"	1.343
06/04/2048 00:00:00	♁	03°01'51" ♏	-00°09'33"	-01°29'11"	01°14'12"	1.658
06/04/2048 00:00:00	♁	17°01'48" ♏	-22°23'47"	00°24'23"	00°15'14"	0.809
06/04/2048 00:00:00	♁	26°18'59" ♏	18°39'10"	-00°41'25"	00°12'26"	5.760
06/04/2048 00:00:00	♁	15°42'44" ♏	-21°54'14"	00°36'31"	00°01'48"	9.970
06/04/2048 00:00:00	♁	07°38'10" ♏	09°26'59"	00°48'17"	-00°01'50"	17.511
06/04/2048 00:00:00	♁	20°02'01" ♏	16°06'34"	-01°41'51"	00°01'57"	30.648
06/04/2048 00:00:00	♁	07°20'13" ♏	-20°04'21"	-12°10'11"	00°01'20"	41.778
06/04/2048 00:00:00	♁	00°45'17" ♏	-23°25'51"	00°00'00"	-00°00'12"	0.002
06/04/2048 00:00:00	♁	10°10'42" ♏	-13°53'06"	01°02'01"	-00°03'58"	7.819
06/04/2048 00:00:00	♁	07°12'29" ♏	23°36'29"	02°07'48"	00°06'39"	0.003
06/04/2048 00:00:00	♁	00°45'17" ♏	-23°25'51"	00°00'00"	-00°00'12"	0.002
06/04/2048 00:00:00	♁	09°13'33" ♏	18°19'10"	03°57'51"	01°00'47"	0.003
06/04/2048 00:00:00	X	00°16'30" ♏	06°01'00"	-05°55'04"	00°00'38"	94.101
06/04/2048 00:00:00	Y	16°00'34" ♏	11°43'02"	-11°02'15"	00°00'29"	78.899
07/04/2048 00:00:00	♁	17°51'15" ♏	07°00'12"	00°00'00"	00°59'01"	1.001
07/04/2048 00:00:00	♃	03°39'29" ♏	-16°39'09"	02°45'09"	13°33'05"	0.003

Ephemerides year 2048

07/04/2048 00:00:00	♀	17°13'46" ♀	05°51'25"	-00°58'56"	02°03'23"	1.339
07/04/2048 00:00:00	♀	04°16'03" ♀	00°19'54"	-01°29'09"	01°14'11"	1.660
07/04/2048 00:00:00	♂	17°16'47" ♂	-22°26'49"	00°22'47"	00°14'44"	0.800
07/04/2048 00:00:00	♃	26°31'28" ♀	18°42'13"	-00°41'16"	00°12'30"	5.770
07/04/2048 00:00:00	♃	15°44'29" ♀	-21°54'03"	00°36'30"	00°01'42"	9.954
07/04/2048 00:00:00	♃	07°36'21" ♃	09°27'38"	00°48'15"	-00°01'48"	17.522
07/04/2048 00:00:00	♃	20°03'58" ♀	16°07'07"	-01°41'49"	00°01'58"	30.658
07/04/2048 00:00:00	♃	07°21'33" ♃	-20°04'03"	-12°10'25"	00°01'19"	41.768
07/04/2048 00:00:00	♃	00°44'22" ♀	-23°25'52"	00°00'00"	-00°01'48"	0.002
07/04/2048 00:00:00	♃	10°06'42" ♃	-13°51'28"	01°02'25"	-00°04'01"	7.813
07/04/2048 00:00:00	♃	07°19'09" ♃	23°36'48" ♀	02°07'00"	00°06'39"	0.003
07/04/2048 00:00:00	♃	00°44'22" ♀	-23°25'52"	00°00'00"	-00°01'48"	0.002
07/04/2048 00:00:00	♃	11°06'51" ♀	18°49'14"	03°51'21"	02°45'21"	0.003
07/04/2048 00:00:00	X	00°17'10" ♀	06°01'17"	-05°55'01"	00°00'39"	94.105
07/04/2048 00:00:00	Y	16°01'03" ♃	11°43'13"	-11°02'07"	00°00'30"	78.913
08/04/2048 00:00:00	♃	18°50'15" ♀	07°22'39"	00°00'00"	00°58'59"	1.001
08/04/2048 00:00:00	♃	17°05'43" ♃	-12°12'51"	03°39'44"	13°19'33"	0.003
08/04/2048 00:00:00	♀	19°17'35" ♀	06°46'46"	-00°49'56"	02°04'14"	1.335
08/04/2048 00:00:00	♀	05°30'15" ♀	00°49'24"	-01°29'02"	01°14'11"	1.663

Ephemerides year 2048

08/04/2048 00:00:00	♂	17°31'17" ♄	-22°29'49"	00°21'07"	00°14'14"	0.792
08/04/2048 00:00:00	♃	26°44'01" ♄	18°45'16"	-00°41'06"	00°12'34"	5.780
08/04/2048 00:00:00	♅	15°46'09" ♄	-21°53'52"	00°36'29"	00°01'36"	9.937
08/04/2048 00:00:00	♁	07°34'34" ♃	09°28'17"	00°48'14"	-00°01'46"	17.533
08/04/2048 00:00:00	♆	20°05'57" ♄	16°07'41"	-01°41'47"	00°01'59"	30.667
08/04/2048 00:00:00	♁	07°22'53" ♃	-20°03'46"	-12°10'39"	00°01'18"	41.758
08/04/2048 00:00:00	♁	00°41'23" ♄	-23°25'53"	00°00'00"	-00°04'15"	0.002
08/04/2048 00:00:00	♃	10°02'38" ♃	-13°49'49"	01°02'49"	-00°04'05"	7.808
08/04/2048 00:00:00	♁	07°25'48" ♃	23°37'07"	♁ 02°06'12"	00°06'39"	0.003
08/04/2048 00:00:00	♁	00°41'23" ♄	-23°25'53"	00°00'00"	-00°04'15"	0.002
08/04/2048 00:00:00	♁	14°39'12" ♄	19°42'19"	03°38'23"	04°14'59"	0.003
08/04/2048 00:00:00	X	00°17'49" ♄	06°01'33"	-05°54'58"	00°00'39"	94.109
08/04/2048 00:00:00	Y	16°01'34" ♃	11°43'23"	-11°01'59"	00°00'30"	78.927
09/04/2048 00:00:00	♁	19°49'14" ♃	07°44'59"	00°00'00"	00°58'58"	1.002
09/04/2048 00:00:00	♃	00°18'57" ♃	-07°16'29"	04°21'33"	13°07'01"	0.003
09/04/2048 00:00:00	♁	21°22'12" ♃	07°42'20"	-00°40'31"	02°04'56"	1.329
09/04/2048 00:00:00	♀	06°44'26" ♃	01°18'54"	-01°28'51"	01°14'10"	1.666
09/04/2048 00:00:00	♂	17°45'16" ♄	-22°32'48"	00°19'26"	00°13'43"	0.783
09/04/2048 00:00:00	♃	26°56'38" ♄	18°48'19"	-00°40'57"	00°12'38"	5.790

Ephemerides year 2048

09/04/2048 00:00:00	♃	15°47'42" ♁	-21°53'42"	00°36'28"	00°01'30"	9.920
09/04/2048 00:00:00	♃	07°32'49" ♃	09°28'54"	00°48'12"	-00°01'43"	17.544
09/04/2048 00:00:00	♃	20°07'56" ♁	16°08'14"	-01°41'45"	00°01'59"	30.676
09/04/2048 00:00:00	♃	07°24'11" ♃	-20°03'29"	-12°10'53"	00°01'17"	41.748
09/04/2048 00:00:00	♁	00°35'44" ♁	-23°25'54"	00°00'00"	-00°07'02"	0.002
09/04/2048 00:00:00	♃	09°58'31" ♃	-13°48'08"	01°03'13"	-00°04'08"	7.803
09/04/2048 00:00:00	♁	07°32'28" ♃	23°37'26" ♁	02°05'23"	00°06'39"	0.003
09/04/2048 00:00:00	♁	00°35'44" ♁	-23°25'54"	00°00'00"	-00°07'02"	0.002
09/04/2048 00:00:00	♁	19°25'30" ♁	20°46'47"	03°19'32"	05°10'56"	0.003
09/04/2048 00:00:00	X	00°18'28" ♁	06°01'49"	-05°54'56"	00°00'39"	94.112
09/04/2048 00:00:00	Y	16°02'05" ♃	11°43'34"	-11°01'51"	00°00'31"	78.941
10/04/2048 00:00:00	♁	20°48'11" ♃	08°07'11"	00°00'00"	00°58'56"	1.002
10/04/2048 00:00:00	♃	13°20'00" ♃	-02°05'51"	04°49'01"	12°55'09"	0.003
10/04/2048 00:00:00	♁	23°27'25" ♃	08°37'56"	-00°30'43"	02°05'28"	1.322
10/04/2048 00:00:00	♁	07°58'37" ♃	01°48'22"	-01°28'37"	01°14'10"	1.668
10/04/2048 00:00:00	♁	17°58'44" ♃	-22°35'44"	00°17'42"	00°13'11"	0.775
10/04/2048 00:00:00	♁	27°09'18" ♁	18°51'21"	-00°40'48"	00°12'42"	5.800
10/04/2048 00:00:00	♃	15°49'10" ♁	-21°53'33"	00°36'27"	00°01'24"	9.904
10/04/2048 00:00:00	♃	07°31'06" ♃	09°29'31"	00°48'10"	-00°01'41"	17.555

Ephemerides year 2048

10/04/2048 00:00:00	♁	20°09'57" ♉	16°08'48"	-01°41'43"	00°02'00"	30.685
10/04/2048 00:00:00	♁	07°25'28" ♉	-20°03'13"	-12°11'08"	00°01'16"	41.737
10/04/2048 00:00:00	♁	00°27'22" ♉	-23°25'56"	00°00'00"	-00°09'36"	0.002
10/04/2048 00:00:00	♁	09°54'21" ♉	-13°46'27"	01°03'37"	-00°04'11"	7.798
10/04/2048 00:00:00	♁	07°39'07" ♉	23°37'44" ♁	02°04'35"	00°06'39"	0.003
10/04/2048 00:00:00	♁	00°27'22" ♉	-23°25'56"	00°00'00"	-00°09'36"	0.002
10/04/2048 00:00:00	♁	24°46'40" ♉	21°48'45"	02°56'38"	05°23'58"	0.003
10/04/2048 00:00:00	X	00°19'07" ♉	06°02'05"	-05°54'53"	00°00'39"	94.115
10/04/2048 00:00:00	Y	16°02'37" ♉	11°43'45"	-11°01'43"	00°00'32"	78.955
11/04/2048 00:00:00	♁	21°47'07" ♉	08°29'14"	00°00'00"	00°58'54"	1.002
11/04/2048 00:00:00	♁	26°09'22" ♉	03°04'59"	05°01'24"	12°43'35"	0.003
11/04/2048 00:00:00	♁	25°33'04" ♉	09°33'26"	-00°20'34"	02°05'47"	1.314
11/04/2048 00:00:00	♁	09°12'47" ♉	02°17'50"	-01°28'18"	01°14'09"	1.671
11/04/2048 00:00:00	♁	18°11'39" ♉	-22°38'39"	00°15'56"	00°12'39"	0.767
11/04/2048 00:00:00	♁	27°22'02" ♉	18°54'24"	-00°40'39"	00°12'45"	5.810
11/04/2048 00:00:00	♁	15°50'31" ♉	-21°53'24"	00°36'26"	00°01'18"	9.887
11/04/2048 00:00:00	♁	07°29'26" ♉	09°30'06"	00°48'08"	-00°01'38"	17.566
11/04/2048 00:00:00	♁	20°11'58" ♉	16°09'22"	-01°41'41"	00°02'01"	30.693
11/04/2048 00:00:00	♁	07°26'45" ♉	-20°02'57"	-12°11'23"	00°01'15"	41.727

Ephemerides year 2048

11/04/2048 00:00:00	♏	00°16'45"	♌	-23°25'58"	00°00'00"	-00°11'28"	0.002
11/04/2048 00:00:00	♋	09°50'09"	♍	-13°44'45"	01°04'01"	-00°04'14"	7.793
11/04/2048 00:00:00	♌	07°45'46"	♈	23°38'02"	♍ 02°03'46"	00°06'39"	0.003
11/04/2048 00:00:00	♏	00°16'45"	♌	-23°25'58"	00°00'00"	-00°11'28"	0.002
11/04/2048 00:00:00	♏	29°59'16"	♏	22°37'45"	02°32'42"	04°54'51"	0.003
11/04/2048 00:00:00	X	00°19'47"	♏	06°02'21"	-05°54'50"	00°00'39"	94.117
11/04/2048 00:00:00	Y	16°03'09"	♈	11°43'56"	-11°01'36"	00°00'32"	78.968
12/04/2048 00:00:00	♏	22°46'00"	♏	08°51'10"	00°00'00"	00°58'52"	1.002
12/04/2048 00:00:00	♎	08°47'14"	♏	08°03'26"	04°58'45"	12°32'08"	0.003
12/04/2048 00:00:00	♏	27°38'56"	♏	10°28'37"	-00°10'07"	02°05'52"	1.304
12/04/2048 00:00:00	♏	10°26'57"	♏	02°47'15"	-01°27'56"	01°14'09"	1.673
12/04/2048 00:00:00	♏	18°24'02"	♏	-22°41'33"	00°14'07"	00°12'06"	0.758
12/04/2048 00:00:00	♏	27°34'50"	♏	18°57'26"	-00°40'30"	00°12'49"	5.819
12/04/2048 00:00:00	♏	15°51'47"	♌	-21°53'16"	00°36'25"	00°01'12"	9.870
12/04/2048 00:00:00	♏	07°27'49"	♍	09°30'41"	00°48'06"	-00°01'36"	17.578
12/04/2048 00:00:00	♏	20°14'00"	♏	16°09'56"	-01°41'40"	00°02'02"	30.702
12/04/2048 00:00:00	♏	07°28'00"	♏	-20°02'42"	-12°11'38"	00°01'14"	41.716
12/04/2048 00:00:00	♏	00°04'46"	♌	-23°25'59"	00°00'00"	-00°12'19"	0.002
12/04/2048 00:00:00	♏	09°45'53"	♍	-13°43'02"	01°04'25"	-00°04'16"	7.789

Ephemerides year 2048

12/04/2048 00:00:00	☾	07°52'26" ♀	23°38'19" ♀	02°02'57"	00°06'39"	0.003
12/04/2048 00:00:00	♄♁	00°04'46" ♂	-23°25'59"	00°00'00"	-00°12'19"	0.002
12/04/2048 00:00:00	♄☾	04°26'00" ♀	23°10'11"	02°11'04"	03°54'54"	0.003
12/04/2048 00:00:00	X	00°20'26" ♂	06°02'37"	-05°54'47"	00°00'39"	94.120
12/04/2048 00:00:00	Y	16°03'42" ♀	11°44'06"	-11°01'28"	00°00'33"	78.982
13/04/2048 00:00:00	☉	23°44'51" ♂	09°12'56"	00°00'00"	00°58'50"	1.003
13/04/2048 00:00:00	☾	21°13'43" ♂	12°37'47"	04°41'50"	12°20'52"	0.003
13/04/2048 00:00:00	♁	29°44'45" ♂	11°23'19"	00°00'34"	02°05'42"	1.293
13/04/2048 00:00:00	♀	11°41'06" ♂	03°16'37"	-01°27'30"	01°14'08"	1.676
13/04/2048 00:00:00	♂	18°35'52" ♂	-22°44'25"	00°12'15"	00°11'32"	0.750
13/04/2048 00:00:00	♃	27°47'41" ♂	19°00'28"	-00°40'22"	00°12'52"	5.829
13/04/2048 00:00:00	♅	15°52'57" ♂	-21°53'09"	00°36'24"	00°01'07"	9.854
13/04/2048 00:00:00	♁♃	07°26'14" ♀	09°31'14"	00°48'04"	-00°01'33"	17.590
13/04/2048 00:00:00	♁	20°16'03" ♂	16°10'30"	-01°41'38"	00°02'03"	30.710
13/04/2048 00:00:00	♁	07°29'15" ♀	-20°02'27"	-12°11'53"	00°01'13"	41.704
13/04/2048 00:00:00	♁	29°52'30" ♂	-23°25'59"	00°00'00"	-00°12'00"	0.002
13/04/2048 00:00:00	♁♃	09°41'35" ♀	-13°41'18"	01°04'49"	-00°04'19"	7.785
13/04/2048 00:00:00	☾	07°59'05" ♀	23°38'36" ♀	02°02'09"	00°06'39"	0.003
13/04/2048 00:00:00	♄♁	29°52'30" ♂	-23°25'59"	00°00'00"	-00°12'00"	0.002

Ephemerides year 2048

13/04/2048 00:00:00	T♄	07°45'14" ♀	23°28'28" ○	01°54'10"	02°43'26"	0.003
13/04/2048 00:00:00	X	00°21'06" ♂	06°02'53"	-05°54'45"	00°00'39"	94.122
13/04/2048 00:00:00	Y	16°04'16" ♀	11°44'17"	-11°01'21"	00°00'33"	78.995
14/04/2048 00:00:00	☉	24°43'41" ♀	09°34'33"	00°00'00"	00°58'48"	1.003
14/04/2048 00:00:00	☾	03°29'09" ♂	16°37'12"	04°12'01"	12°10'07"	0.003
14/04/2048 00:00:00	♁	01°50'14" ♂	12°17'20"	00°11'28"	02°05'14"	1.281
14/04/2048 00:00:00	♂	12°55'15" ♀	03°45'56"	-01°27'00"	01°14'08"	1.678
14/04/2048 00:00:00	♂	18°47'07" ♂	-22°47'15"	00°10'21"	00°10'58"	0.742
14/04/2048 00:00:00	♃	28°00'35" ♂	19°03'29"	-00°40'13"	00°12'56"	5.838
14/04/2048 00:00:00	♄	15°54'01" ♂	-21°53'02"	00°36'23"	00°01'01"	9.837
14/04/2048 00:00:00	♅	07°24'42" ♃	09°31'47"	00°48'03"	-00°01'30"	17.602
14/04/2048 00:00:00	♆	20°18'07" ♂	16°11'04"	-01°41'36"	00°02'04"	30.717
14/04/2048 00:00:00	♇	07°30'28" ♃	-20°02'13"	-12°12'08"	00°01'12"	41.693
14/04/2048 00:00:00	♈	29°41'06" ♂	-23°25'58"	00°00'00"	-00°10'39"	0.002
14/04/2048 00:00:00	♉	09°37'14" ♃	-13°39'34"	01°05'12"	-00°04'21"	7.781
14/04/2048 00:00:00	♊	08°05'44" ♀	23°38'53" ○	02°01'20"	00°06'39"	0.003
14/04/2048 00:00:00	T♈	29°41'06" ♂	-23°25'58"	00°00'00"	-00°10'39"	0.002
14/04/2048 00:00:00	T♄	09°56'00" ♀	23°37'33" ○	01°42'38"	01°41'01"	0.003
14/04/2048 00:00:00	X	00°21'45" ♂	06°03'10"	-05°54'42"	00°00'39"	94.123



Ephemerides year 2048

14/04/2048 00:00:00	Y	16°04'50" ♀	11°44'27"	-11°01'13"	00°00'34"	79.008
15/04/2048 00:00:00	☉	25°42'28" ♀	09°56'01"	00°00'00"	00°58'46"	1.003
15/04/2048 00:00:00	☾	15°34'21" ♂	19°51'46"	03°31'06"	12°00'30"	0.003
15/04/2048 00:00:00	♁	03°55'07" ♂	13°10'26"	00°22'29"	02°04'28"	1.267
15/04/2048 00:00:00	♂	14°09'23" ♀	04°15'10"	-01°26'26"	01°14'07"	1.681
15/04/2048 00:00:00	♂	18°57'48" ♂	-22°50'05"	00°08'25"	00°10'23"	0.734
15/04/2048 00:00:00	♃	28°13'33" ♂	19°06'30"	-00°40'04"	00°12'59"	5.847
15/04/2048 00:00:00	♄	15°55'00" ♂	-21°52'56"	00°36'22"	00°00'55"	9.821
15/04/2048 00:00:00	♅	07°23'13" ♃	09°32'18"	00°48'01"	-00°01'28"	17.615
15/04/2048 00:00:00	♆	20°20'12" ♂	16°11'39"	-01°41'35"	00°02'05"	30.725
15/04/2048 00:00:00	♇	07°31'41" ♃	-20°02'00"	-12°12'24"	00°01'11"	41.682
15/04/2048 00:00:00	♈	29°31'28" ♂	-23°25'56"	00°00'00"	-00°08'29"	0.002
15/04/2048 00:00:00	♉	09°32'52" ♃	-13°37'49"	01°05'36"	-00°04'23"	7.778
15/04/2048 00:00:00	♊	08°12'24" ♀	23°39'09" ○	02°00'31"	00°06'39"	0.003
15/04/2048 00:00:00	♋	29°31'28" ♂	-23°25'56"	00°00'00"	-00°08'29"	0.002
15/04/2048 00:00:00	♌	11°14'47" ♀	23°41'50" ○	01°35'29"	01°00'41"	0.003
15/04/2048 00:00:00	X	00°22'25" ♂	06°03'26"	-05°54'39"	00°00'39"	94.125
15/04/2048 00:00:00	Y	16°05'25" ♀	11°44'38"	-11°01'06"	00°00'35"	79.021
16/04/2048 00:00:00	☉	26°41'14" ♀	10°17'19"	00°00'00"	00°58'44"	1.003

Ephemerides year 2048

16/04/2048 00:00:00	♃	27°30'48" ♉	22°12'55"	02°41'12"	11°52'47"	0.003
16/04/2048 00:00:00	♆	05°59'04" ♉	14°02'25"	00°33'32"	02°03'22"	1.252
16/04/2048 00:00:00	♀	15°23'30" ♀	04°44'20"	-01°25'48"	01°14'07"	1.683
16/04/2048 00:00:00	♂	19°07'54" ♂	-22°52'54"	00°06'25"	00°09'48"	0.726
16/04/2048 00:00:00	♃	28°26'34" ♉	19°09'31"	-00°39'56"	00°13'02"	5.855
16/04/2048 00:00:00	♄	15°55'52" ♄	-21°52'51"	00°36'21"	00°00'49"	9.804
16/04/2048 00:00:00	♃	07°21'46" ♃	09°32'48"	00°47'59"	-00°01'25"	17.627
16/04/2048 00:00:00	♆	20°22'18" ♉	16°12'13"	-01°41'33"	00°02'05"	30.732
16/04/2048 00:00:00	♃	07°32'52" ♃	-20°01'47"	-12°12'40"	00°01'10"	41.670
16/04/2048 00:00:00	♄	29°24'16" ♄	-23°25'54"	00°00'00"	-00°05'53"	0.002
16/04/2048 00:00:00	♃	09°28'27" ♃	-13°36'03"	01°05'59"	-00°04'25"	7.775
16/04/2048 00:00:00	♁	08°19'03" ♁	23°39'25" ○	01°59'42"	00°06'39"	0.003
16/04/2048 00:00:00	♄	29°24'16" ♄	-23°25'54"	00°00'00"	-00°05'53"	0.002
16/04/2048 00:00:00	♁	12°05'08" ♁	23°44'08" ○	01°30'52"	00°43'15"	0.003
16/04/2048 00:00:00	X	00°23'05" ♉	06°03'41"	-05°54'37"	00°00'39"	94.126
16/04/2048 00:00:00	Y	16°06'01" ♁	11°44'48"	-11°00'59"	00°00'35"	79.033
17/04/2048 00:00:00	♃	27°39'57" ♀	10°38'26"	00°00'00"	00°58'42"	1.004
17/04/2048 00:00:00	♃	09°20'52" ♁	23°34'10" ○	01°44'35"	11°47'51"	0.003
17/04/2048 00:00:00	♆	08°01'45" ♉	14°53'04"	00°44'35"	02°01'56"	1.236

Ephemerides year 2048

17/04/2048 00:00:00	♀	16°37'37" ♈	05°13'24"	-01°25'07"	01°14'06"	1.685
17/04/2048 00:00:00	♂	19°17'24" ♉	-22°55'41"	00°04'23"	00°09'12"	0.718
17/04/2048 00:00:00	♋	28°39'38" ♌	19°12'32"	-00°39'47"	00°13'05"	5.864
17/04/2048 00:00:00	♌	15°56'38" ♍	-21°52'47"	00°36'20"	00°00'43"	9.788
17/04/2048 00:00:00	♍	07°20'22" ♎	09°33'18"	00°47'57"	-00°01'22"	17.640
17/04/2048 00:00:00	♎	20°24'24" ♏	16°12'48"	-01°41'32"	00°02'06"	30.739
17/04/2048 00:00:00	♏	07°34'03" ♐	-20°01'35"	-12°12'56"	00°01'09"	41.658
17/04/2048 00:00:00	♐	29°19'41" ♑	-23°25'53"	00°00'00"	-00°03'18"	0.002
17/04/2048 00:00:00	♑	09°24'00" ♒	-13°34'17"	01°06'22"	-00°04'27"	7.772
17/04/2048 00:00:00	♒	08°25'42" ♓	23°39'40" ♁	01°58'53"	00°06'39"	0.003
17/04/2048 00:00:00	T♐	29°19'41" ♑	-23°25'53"	00°00'00"	-00°03'18"	0.002
17/04/2048 00:00:00	T♒	12°46'01" ♓	23°45'54" ♁	01°27'15"	00°39'52"	0.003
17/04/2048 00:00:00	X	00°23'45" ♌	06°03'57"	-05°54'35"	00°00'40"	94.127
17/04/2048 00:00:00	Y	16°06'37" ♓	11°44'59"	-11°00'52"	00°00'36"	79.046
18/04/2048 00:00:00	☉	28°38'39" ♈	10°59'23"	00°00'00"	00°58'40"	1.004
18/04/2048 00:00:00	☾	21°07'42" ♓	23°51'40" ♁	00°43'35"	11°46'30"	0.003
18/04/2048 00:00:00	♁	10°02'50" ♌	15°42'12"	00°55'31"	02°00'10"	1.218
18/04/2048 00:00:00	♀	17°51'43" ♈	05°42'21"	-01°24'22"	01°14'05"	1.687
18/04/2048 00:00:00	♂	19°26'18" ♉	-22°58'28"	00°02'18"	00°08'35"	0.710

Ephemerides year 2048

18/04/2048 00:00:00	♃	28°52'45" ♉	19°15'31"	-00°39'39"	00°13'08"	5.873
18/04/2048 00:00:00	♅	15°57'19" ♋	-21°52'43"	00°36'19"	00°00'37"	9.772
18/04/2048 00:00:00	♁	07°19'01" ♈	09°33'46"	00°47'54"	-00°01'19"	17.653
18/04/2048 00:00:00	♆	20°26'31" ♉	16°13'23"	-01°41'30"	00°02'07"	30.746
18/04/2048 00:00:00	♁	07°35'12" ♈	-20°01'23"	-12°13'12"	00°01'08"	41.646
18/04/2048 00:00:00	♄	29°17'31" ♈	-23°25'52"	00°00'00"	-00°01'06"	0.002
18/04/2048 00:00:00	♆	09°19'32" ♈	-13°32'30"	01°06'45"	-00°04'29"	7.770
18/04/2048 00:00:00	♁	08°32'22" ♈	23°39'55" ♁	01°58'04"	00°06'39"	0.003
18/04/2048 00:00:00	♄♁	29°17'31" ♈	-23°25'52"	00°00'00"	-00°01'06"	0.002
18/04/2048 00:00:00	♄♁	13°25'38" ♈	23°47'34" ♁	01°23'53"	00°38'50"	0.003
18/04/2048 00:00:00	X	00°24'25" ♉	06°04'13"	-05°54'32"	00°00'40"	94.127
18/04/2048 00:00:00	Y	16°07'14" ♈	11°45'09"	-11°00'45"	00°00'37"	79.058
19/04/2048 00:00:00	♁	29°37'18" ♈	11°20'09"	-00°00'00"	00°58'38"	1.004
19/04/2048 00:00:00	♃	02°55'19" ♈	23°04'33"	-00°19'29"	11°49'30"	0.003
19/04/2048 00:00:00	♁	12°01'58" ♉	16°29'35"	01°06'15"	01°58'03"	1.200
19/04/2048 00:00:00	♁	19°05'48" ♈	06°11'11"	-01°23'34"	01°14'04"	1.689
19/04/2048 00:00:00	♁	19°34'35" ♈	-23°01'14"	00°00'11"	00°07'58"	0.703
19/04/2048 00:00:00	♃	29°05'55" ♉	19°18'31"	-00°39'31"	00°13'11"	5.881
19/04/2048 00:00:00	♅	15°57'53" ♋	-21°52'40"	00°36'18"	00°00'31"	9.755

Ephemerides year 2048

19/04/2048 00:00:00	♃	07°17'43" ♃	09°34'13"	00°47'52"	-00°01'16"	17.666
19/04/2048 00:00:00	♃	20°28'39" ♃	16°13'58"	-01°41'29"	00°02'08"	30.752
19/04/2048 00:00:00	♃	07°36'20" ♃	-20°01'13"	-12°13'28"	00°01'07"	41.634
19/04/2048 00:00:00	♃	29°17'13" ♃	-23°25'52"	00°00'00"	00°00'21"	0.002
19/04/2048 00:00:00	♃	09°15'02" ♃	-13°30'43"	01°07'08"	-00°04'30"	7.767
19/04/2048 00:00:00	♃	08°39'01" ♃	23°40'10" ♃	01°57'15"	00°06'39"	0.003
19/04/2048 00:00:00	♃	29°17'13" ♃	-23°25'52"	00°00'00"	00°00'21"	0.002
19/04/2048 00:00:00	♃	14°01'17" ♃	23°49'00" ♃	01°20'57"	00°30'42"	0.003
19/04/2048 00:00:00	X	00°25'05" ♃	06°04'29"	-05°54'30"	00°00'40"	94.128
19/04/2048 00:00:00	Y	16°07'51" ♃	11°45'20"	-11°00'38"	00°00'37"	79.070
20/04/2048 00:00:00	♃	00°35'55" ♃	11°40'43"	-00°00'00"	00°58'35"	1.005
20/04/2048 00:00:00	♃	14°48'22" ♃	21°14'50"	-01°22'19"	11°57'27"	0.003
20/04/2048 00:00:00	♃	13°58'51" ♃	17°15'05"	01°16'44"	01°55'38"	1.180
20/04/2048 00:00:00	♃	20°19'53" ♃	06°39'53"	-01°22'42"	01°14'04"	1.692
20/04/2048 00:00:00	♃	19°42'14" ♃	-23°04'00"	-00°01'59"	00°07'20"	0.695
20/04/2048 00:00:00	♃	29°19'08" ♃	19°21'30"	-00°39'23"	00°13'14"	5.889
20/04/2048 00:00:00	♃	15°58'22" ♃	-21°52'38"	00°36'16"	00°00'25"	9.739
20/04/2048 00:00:00	♃	07°16'28" ♃	09°34'39"	00°47'50"	-00°01'13"	17.679
20/04/2048 00:00:00	♃	20°30'48" ♃	16°14'33"	-01°41'28"	00°02'08"	30.758

Ephemerides year 2048

20/04/2048 00:00:00	♁	07°37'27"	♈	-20°01'02"	-12°13'45"	00°01'06"	41.621
20/04/2048 00:00:00	♁	29°17'56"	♈	-23°25'52"	00°00'00"	00°00'53"	0.002
20/04/2048 00:00:00	♁	09°10'30"	♈	-13°28'55"	01°07'31"	-00°04'32"	7.765
20/04/2048 00:00:00	♁	08°45'41"	♈	23°40'25"	♁ 01°56'26"	00°06'39"	0.003
20/04/2048 00:00:00	♁	29°17'56"	♈	-23°25'52"	00°00'00"	00°00'53"	0.002
20/04/2048 00:00:00	♁	14°22'46"	♈	23°49'52"	♁ 01°19'16"	00°09'53"	0.003
20/04/2048 00:00:00	X	00°25'45"	♈	06°04'45"	-05°54'28"	00°00'40"	94.128
20/04/2048 00:00:00	Y	16°08'29"	♈	11°45'30"	-11°00'31"	00°00'38"	79.082
21/04/2048 00:00:00	♁	01°34'30"	♈	12°01'06"	-00°00'00"	00°58'33"	1.005
21/04/2048 00:00:00	♁	26°51'59"	♈	18°26'51"	-02°22'27"	12°10'40"	0.003
21/04/2048 00:00:00	♁	15°53'09"	♈	17°58'30"	01°26'51"	01°52'54"	1.159
21/04/2048 00:00:00	♁	21°33'57"	♈	07°08'27"	-01°21'46"	01°14'03"	1.694
21/04/2048 00:00:00	♁	19°49'15"	♈	-23°06'45"	-00°04'12"	00°06'41"	0.688
21/04/2048 00:00:00	♁	29°32'23"	♈	19°24'28"	-00°39'15"	00°13'16"	5.897
21/04/2048 00:00:00	♁	15°58'45"	♈	-21°52'36"	00°36'15"	00°00'19"	9.723
21/04/2048 00:00:00	♁	07°15'15"	♈	09°35'04"	00°47'48"	-00°01'11"	17.692
21/04/2048 00:00:00	♁	20°32'57"	♈	16°15'08"	-01°41'26"	00°02'09"	30.764
21/04/2048 00:00:00	♁	07°38'33"	♈	-20°00'52"	-12°14'02"	00°01'05"	41.609
21/04/2048 00:00:00	♁	29°18'41"	♈	-23°25'52"	00°00'00"	00°00'27"	0.002

Ephemerides year 2048

21/04/2048 00:00:00	♁	09°05'58" ♎	-13°27'08"	01°07'53"	-00°04'33"	7.764
21/04/2048 00:00:00	♁	08°52'20" ♎	23°40'39" ♋	01°55'37"	00°06'39"	0.003
21/04/2048 00:00:00	♁	29°18'41" ♎	-23°25'52"	00°00'00"	00°00'27"	0.002
21/04/2048 00:00:00	♁	14°16'16" ♎	23°49'46" ♋	01°19'56"	-00°25'11"	0.003
21/04/2048 00:00:00	X	00°26'26" ♎	06°05'01"	-05°54'26"	00°00'40"	94.127
21/04/2048 00:00:00	Y	16°09'08" ♎	11°45'40"	-11°00'24"	00°00'38"	79.093
22/04/2048 00:00:00	♁	02°33'02" ♎	12°21'17"	-00°00'00"	00°58'31"	1.005
22/04/2048 00:00:00	♁	09°11'29" ♎	14°46'38"	-03°17'21"	12°29'10"	0.003
22/04/2048 00:00:00	♁	17°44'34" ♎	18°39'44"	01°36'34"	01°49'53"	1.137
22/04/2048 00:00:00	♁	22°48'00" ♎	07°36'51"	-01°20'47"	01°14'02"	1.696
22/04/2048 00:00:00	♁	19°55'37" ♎	-23°09'30"	-00°06'28"	00°06'02"	0.680
22/04/2048 00:00:00	♁	29°45'41" ♎	19°27'26"	-00°39'07"	00°13'19"	5.904
22/04/2048 00:00:00	♁	15°59'02" ♎	-21°52'35"	00°36'14"	00°00'13"	9.707
22/04/2048 00:00:00	♁	07°14'05" ♎	09°35'28"	00°47'46"	-00°01'08"	17.706
22/04/2048 00:00:00	♁	20°35'06" ♎	16°15'44"	-01°41'25"	00°02'09"	30.770
22/04/2048 00:00:00	♁	07°39'38" ♎	-20°00'43"	-12°14'19"	00°01'04"	41.596
22/04/2048 00:00:00	♁	29°18'33" ♎	-23°25'52"	00°00'00"	-00°00'51"	0.002
22/04/2048 00:00:00	♁	09°01'24" ♎	-13°25'19"	01°08'16"	-00°04'34"	7.762
22/04/2048 00:00:00	♁	08°58'59" ♎	23°40'52" ♋	01°54'47"	00°06'39"	0.003

Ephemerides year 2048

22/04/2048 00:00:00	T♄	29°18'33" ♏	-23°25'52"	00°00'00"	-00°00'51"	0.002
22/04/2048 00:00:00	T♄	13°28'30" ♀	23°48'05" ♀	01°24'03"	-01°11'44"	0.003
22/04/2048 00:00:00	X	00°27'06" ♀	06°05'16"	-05°54'24"	00°00'40"	94.127
22/04/2048 00:00:00	Y	16°09'47" ♀	11°45'51"	-11°00'18"	00°00'39"	79.105
23/04/2048 00:00:00	☉	03°31'33" ♀	12°41'16"	-00°00'00"	00°58'29"	1.005
23/04/2048 00:00:00	☾	21°51'56" ♀	10°21'35"	-04°04'11"	12°52'27"	0.003
23/04/2048 00:00:00	☿	19°32'51" ♀	19°18'39"	01°45'46"	01°46'36"	1.115
23/04/2048 00:00:00	♀	24°02'02" ♀	08°05'05"	-01°19'44"	01°14'01"	1.698
23/04/2048 00:00:00	♂	20°01'20" ♏	-23°12'15"	-00°08'47"	00°05'22"	0.673
23/04/2048 00:00:00	♃	29°59'02" ♀	19°30'23"	-00°38'59"	00°13'21"	5.912
23/04/2048 00:00:00	♄	15°59'12" ♏	-21°52'35"	00°36'13"	00°00'07"	9.691
23/04/2048 00:00:00	♅	07°12'59" ♄	09°35'51"	00°47'44"	-00°01'05"	17.720
23/04/2048 00:00:00	♆	20°37'16" ♀	16°16'19"	-01°41'24"	00°02'10"	30.775
23/04/2048 00:00:00	♁	07°40'41" ♀	-20°00'35"	-12°14'36"	00°01'02"	41.583
23/04/2048 00:00:00	♁	29°16'46" ♏	-23°25'52"	00°00'00"	-00°02'45"	0.002
23/04/2048 00:00:00	♂	08°56'49" ♄	-13°23'31"	01°08'38"	-00°04'35"	7.761
23/04/2048 00:00:00	♁	09°05'39" ♀	23°41'06" ♀	01°53'58"	00°06'39"	0.003
23/04/2048 00:00:00	T♄	29°16'46" ♏	-23°25'52"	00°00'00"	-00°02'45"	0.002
23/04/2048 00:00:00	T♄	11°51'37" ♀	23°43'36" ♀	01°32'10"	-02°01'36"	0.003



Ephemerides year 2048

23/04/2048 00:00:00	X	00°27'46" ♄	06°05'32"	-05°54'22"	00°00'39"	94.126
23/04/2048 00:00:00	Y	16°10'26" ♀	11°46'01"	-11°00'11"	00°00'39"	79.116
24/04/2048 00:00:00	☉	04°30'01" ♄	13°01'02"	-00°00'00"	00°58'27"	1.006
24/04/2048 00:00:00	☾	04°57'37" ♃	05°20'33"	-04°39'58"	13°19'22"	0.003
24/04/2048 00:00:00	♀	21°17'44" ♄	19°55'10"	01°54'24"	01°43'06"	1.092
24/04/2048 00:00:00	♀	25°16'04" ♃	08°33'09"	-01°18'38"	01°14'01"	1.700
24/04/2048 00:00:00	♂	20°06'23" ♁	-23°14'59"	-00°11'09"	00°04'42"	0.666
24/04/2048 00:00:00	♃	00°12'25" ♀	19°33'20"	-00°38'51"	00°13'24"	5.919
24/04/2048 00:00:00	♅	15°59'17" ♁	-21°52'36"	00°36'12"	00°00'01"	9.675
24/04/2048 00:00:00	♃	07°11'55" ♃	09°36'13"	00°47'42"	-00°01'02"	17.734
24/04/2048 00:00:00	♃	20°39'27" ♄	16°16'54"	-01°41'23"	00°02'10"	30.780
24/04/2048 00:00:00	♃	07°41'43" ♃	-20°00'27"	-12°14'53"	00°01'01"	41.570
24/04/2048 00:00:00	♁	29°12'57" ♁	-23°25'50"	00°00'00"	-00°04'51"	0.002
24/04/2048 00:00:00	♃	08°52'14" ♃	-13°21'42"	01°09'00"	-00°04'35"	7.761
24/04/2048 00:00:00	♃	09°12'18" ♀	23°41'19" ○	01°53'09"	00°06'39"	0.003
24/04/2048 00:00:00	T♁	29°12'57" ♁	-23°25'50"	00°00'00"	-00°04'51"	0.002
24/04/2048 00:00:00	T♃	09°28'31" ♃	23°34'40" ○	01°43'55"	-02°41'48"	0.003
24/04/2048 00:00:00	X	00°28'25" ♄	06°05'47"	-05°54'20"	00°00'39"	94.125
24/04/2048 00:00:00	Y	16°11'06" ♀	11°46'11"	-11°00'05"	00°00'40"	79.127

Ephemerides year 2048

25/04/2048 00:00:00	☉	05°28'27" ♈	13°20'35"	-00°00'00"	00°58'24"	1.006
25/04/2048 00:00:00	☾	18°31'18" ♎	-00°05'21"	-05°01'35"	13°48'02"	0.003
25/04/2048 00:00:00	♀	22°59'00" ♈	20°29'13"	02°02'24"	01°39'23"	1.069
25/04/2048 00:00:00	♀	26°30'05" ♏	09°01'01"	-01°17'28"	01°14'00"	1.701
25/04/2048 00:00:00	♂	20°10'45" ♏	-23°17'42"	-00°13'34"	00°04'02"	0.659
25/04/2048 00:00:00	♃	00°25'50" ♉	19°36'16"	-00°38'44"	00°13'26"	5.926
25/04/2048 00:00:00	♄	15°59'16" ♏	-21°52'37"	00°36'11"	-00°00'03"	9.659
25/04/2048 00:00:00	♅	07°10'54" ♎	09°36'33"	00°47'39"	-00°00'59"	17.748
25/04/2048 00:00:00	♆	20°41'38" ♈	16°17'30"	-01°41'22"	00°02'11"	30.785
25/04/2048 00:00:00	♇	07°42'44" ♏	-20°00'20"	-12°15'11"	00°01'00"	41.557
25/04/2048 00:00:00	♁	29°07'08" ♏	-23°25'48"	00°00'00"	-00°06'42"	0.002
25/04/2048 00:00:00	♂	08°47'37" ♎	-13°19'54"	01°09'22"	-00°04'36"	7.760
25/04/2048 00:00:00	♁	09°18'57" ♉	23°41'31"	♁ 01°52'19"	00°06'39"	0.003
25/04/2048 00:00:00	♁	29°07'08" ♏	-23°25'48"	00°00'00"	-00°06'42"	0.002
25/04/2048 00:00:00	♁	06°35'35" ♉	23°20'20"	01°57'47"	-02°59'33"	0.003
25/04/2048 00:00:00	X	00°29'05" ♈	06°06'03"	-05°54'18"	00°00'39"	94.123
25/04/2048 00:00:00	Y	16°11'46" ♉	11°46'21"	-10°59'59"	00°00'40"	79.138
26/04/2048 00:00:00	☉	06°26'51" ♈	13°39'55"	-00°00'00"	00°58'22"	1.006
26/04/2048 00:00:00	☾	02°33'27" ♎	-05°41'51"	-05°06'09"	14°15'50"	0.002

Ephemerides year 2048

26/04/2048 00:00:00	♀	24°36'28" ♂	21°00'46"	02°09'44"	01°35'30"	1.045
26/04/2048 00:00:00	♀	27°44'05" ♀	09°28'41"	-01°16'16"	01°13'59"	1.703
26/04/2048 00:00:00	♂	20°14'27" ♂	-23°20'26"	-00°16'01"	00°03'21"	0.652
26/04/2048 00:00:00	♃	00°39'18" ♀	19°39'11"	-00°38'36"	00°13'28"	5.933
26/04/2048 00:00:00	♃	15°59'09" ♂	-21°52'39"	00°36'09"	-00°00'09"	9.644
26/04/2048 00:00:00	♃	07°09'56" ♃	09°36'53"	00°47'37"	-00°00'56"	17.762
26/04/2048 00:00:00	♃	20°43'49" ♂	16°18'05"	-01°41'21"	00°02'11"	30.790
26/04/2048 00:00:00	♃	07°43'44" ♃	-20°00'13"	-12°15'28"	00°00'59"	41.543
26/04/2048 00:00:00	♃	28°59'46" ♂	-23°25'45"	00°00'00"	-00°07'53"	0.002
26/04/2048 00:00:00	♃	08°43'01" ♃	-13°18'05"	01°09'44"	-00°04'36"	7.760
26/04/2048 00:00:00	♃	09°25'36" ♀	23°41'43" ○	01°51'30"	00°06'39"	0.003
26/04/2048 00:00:00	T♃	28°59'46" ♂	-23°25'45"	00°00'00"	-00°07'53"	0.002
26/04/2048 00:00:00	T♃	03°38'24" ♀	23°01'44"	02°11'38"	-02°50'45"	0.003
26/04/2048 00:00:00	X	00°29'45" ♂	06°06'18"	-05°54'16"	00°00'39"	94.122
26/04/2048 00:00:00	Y	16°12'27" ♀	11°46'31"	-10°59'53"	00°00'41"	79.148
27/04/2048 00:00:00	☉	07°25'13" ♂	13°59'02"	-00°00'00"	00°58'20"	1.006
27/04/2048 00:00:00	☾	17°01'41" ♀	-11°10'26"	-04°51'40"	14°39'41"	0.002
27/04/2048 00:00:00	♀	26°09'58" ♂	21°29'47"	02°16'18"	01°31'27"	1.021
27/04/2048 00:00:00	♀	28°58'04" ♀	09°56'08"	-01°14'59"	01°13'59"	1.705

Ephemerides year 2048

27/04/2048 00:00:00	♂	20°17'27" ♄	-23°23'09"	-00°18'32"	00°02'39"	0.645
27/04/2048 00:00:00	♃	00°52'47" ♀	19°42'05"	-00°38'28"	00°13'30"	5.940
27/04/2048 00:00:00	♅	15°58'57" ♄	-21°52'42"	00°36'08"	-00°00'15"	9.628
27/04/2048 00:00:00	♁	07°09'01" ♃	09°37'11"	00°47'35"	-00°00'53"	17.777
27/04/2048 00:00:00	♆	20°46'01" ♄	16°18'41"	-01°41'20"	00°02'12"	30.794
27/04/2048 00:00:00	♁	07°44'43" ♃	-20°00'07"	-12°15'46"	00°00'57"	41.530
27/04/2048 00:00:00	♁	28°51'41" ♄	-23°25'41"	00°00'00"	-00°08'06"	0.002
27/04/2048 00:00:00	♃	08°38'24" ♃	-13°16'16"	01°10'05"	-00°04'36"	7.760
27/04/2048 00:00:00	♁	09°32'15" ♀	23°41'55" ○	01°50'40"	00°06'39"	0.003
27/04/2048 00:00:00	♁	28°51'41" ♄	-23°25'41"	00°00'00"	-00°08'06"	0.002
27/04/2048 00:00:00	♁	01°00'01" ♀	22°41'50"	02°23'43"	-02°24'20"	0.003
27/04/2048 00:00:00	X	00°30'25" ♄	06°06'33"	-05°54'14"	00°00'39"	94.120
27/04/2048 00:00:00	Y	16°13'09" ♀	11°46'41"	-10°59'47"	00°00'41"	79.159
28/04/2048 00:00:00	♁	08°23'33" ♄	14°17'54"	-00°00'00"	00°58'19"	1.007
28/04/2048 00:00:00	♃	01°50'32" ♃	-16°08'04"	-04°17'32"	14°56'39"	0.002
28/04/2048 00:00:00	♁	27°39'20" ♄	21°56'17"	02°22'06"	01°27'16"	0.997
28/04/2048 00:00:00	♀	00°12'03" ♄	10°23'22"	-01°13'40"	01°13'58"	1.707
28/04/2048 00:00:00	♂	20°19'45" ♄	-23°25'52"	-00°21'05"	00°01'57"	0.638
28/04/2048 00:00:00	♃	01°06'19" ♀	19°44'58"	-00°38'21"	00°13'33"	5.947

Ephemerides year 2048

28/04/2048 00:00:00	♃	15°58'38" ♄	-21°52'45"	00°36'07"	-00°00'21"	9.613
28/04/2048 00:00:00	♃	07°08'09" ♄	09°37'28"	00°47'33"	-00°00'50"	17.791
28/04/2048 00:00:00	♃	20°48'14" ♄	16°19'16"	-01°41'19"	00°02'12"	30.798
28/04/2048 00:00:00	♃	07°45'40" ♃	-20°00'02"	-12°16'04"	00°00'56"	41.516
28/04/2048 00:00:00	♄	28°43'53" ♃	-23°25'37"	00°00'00"	-00°07'18"	0.002
28/04/2048 00:00:00	♃	08°33'47" ♄	-13°14'27"	01°10'27"	-00°04'36"	7.761
28/04/2048 00:00:00	♃	09°38'55" ♃	23°42'06" ○	01°49'51"	00°06'39"	0.003
28/04/2048 00:00:00	♄	28°43'53" ♃	-23°25'37"	00°00'00"	-00°07'18"	0.002
28/04/2048 00:00:00	♃	28°50'03" ♄	22°23'18"	02°33'26"	-01°56'47"	0.003
28/04/2048 00:00:00	X	00°31'05" ♄	06°06'49"	-05°54'13"	00°00'39"	94.118
28/04/2048 00:00:00	Y	16°13'51" ♃	11°46'51"	-10°59'41"	00°00'42"	79.169
29/04/2048 00:00:00	♄	09°21'51" ♄	14°36'33"	-00°00'00"	00°58'17"	1.007
29/04/2048 00:00:00	♃	16°52'01" ♄	-20°08'51"	-03°25'14"	15°04'41"	0.002
29/04/2048 00:00:00	♃	29°04'29" ♄	22°20'16"	02°27'03"	01°22'58"	0.973
29/04/2048 00:00:00	♃	01°26'02" ♄	10°50'21"	-01°12'18"	01°13'58"	1.709
29/04/2048 00:00:00	♃	20°21'21" ♃	-23°28'35" ○	-00°23'42"	00°01'14"	0.631
29/04/2048 00:00:00	♃	01°19'53" ♃	19°47'51"	-00°38'14"	00°13'35"	5.953
29/04/2048 00:00:00	♃	15°58'14" ♄	-21°52'49"	00°36'06"	-00°00'27"	9.597
29/04/2048 00:00:00	♃	07°07'20" ♄	09°37'44"	00°47'30"	-00°00'47"	17.806

Ephemerides year 2048

29/04/2048 00:00:00	♃	20°50'27"	♏	16°19'52"	-01°41'18"	00°02'13"	30.802
29/04/2048 00:00:00	♄	07°46'36"	♈	-19°59'57"	-12°16'22"	00°00'55"	41.502
29/04/2048 00:00:00	♅	28°37'21"	♈r	-23°25'33"	00°00'00"	-00°05'39"	0.002
29/04/2048 00:00:00	♆	08°29'10"	♎r	-13°12'38"	01°10'48"	-00°04'36"	7.762
29/04/2048 00:00:00	♇	09°45'34"	♏	23°42'17"	♌ 01°49'01"	00°06'39"	0.003
29/04/2048 00:00:00	T♅	28°37'21"	♈r	-23°25'33"	00°00'00"	-00°05'39"	0.002
29/04/2048 00:00:00	T♆	27°01'57"	♏r	22°06'31"	02°41'30"	-01°42'23"	0.003
29/04/2048 00:00:00	X	00°31'44"	♏	06°07'04"	-05°54'11"	00°00'39"	94.115
29/04/2048 00:00:00	Y	16°14'33"	♏	11°47'01"	-10°59'35"	00°00'42"	79.179
30/04/2048 00:00:00	♁	10°20'07"	♏	14°54'57"	-00°00'00"	00°58'15"	1.007
30/04/2048 00:00:00	♂	01°56'44"	♈	-22°48'15"	-02°18'21"	15°03'11"	0.002
30/04/2048 00:00:00	♆	00°25'16"	♏	22°41'46"	02°31'08"	01°18'34"	0.949
30/04/2048 00:00:00	♇	02°40'00"	♏	11°17'05"	-01°10'52"	01°13'57"	1.710
30/04/2048 00:00:00	♈	20°22'14"	♈	-23°31'18"	♌ -00°26'21"	00°00'30"	0.625
30/04/2048 00:00:00	♉	01°33'30"	♏	19°50'43"	-00°38'06"	00°13'37"	5.959
30/04/2048 00:00:00	♊	15°57'44"	♈r	-21°52'54"	00°36'04"	-00°00'32"	9.582
30/04/2048 00:00:00	♋	07°06'34"	♎r	09°37'59"	00°47'28"	-00°00'44"	17.821
30/04/2048 00:00:00	♃	20°52'40"	♏	16°20'27"	-01°41'17"	00°02'13"	30.805
30/04/2048 00:00:00	♄	07°47'31"	♈	-19°59'53"	-12°16'41"	00°00'54"	41.488

Ephemerides year 2048

30/04/2048 00:00:00	♏	28°32'44" ♀r	-23°25'30"	00°00'00"	-00°03'30"	0.002
30/04/2048 00:00:00	♋	08°24'33" ♀r	-13°10'50"	01°11'09"	-00°04'36"	7.763
30/04/2048 00:00:00	♌	09°52'13" ♀	23°42'28" ♀	01°48'11"	00°06'39"	0.003
30/04/2048 00:00:00	♏	28°32'44" ♀r	-23°25'30"	00°00'00"	-00°03'30"	0.002
30/04/2048 00:00:00	♌	25°19'01" ♀r	21°49'31"	02°49'16"	-01°46'20"	0.003
30/04/2048 00:00:00	X	00°32'24" ♀	06°07'19"	-05°54'10"	00°00'39"	94.112
30/04/2048 00:00:00	Y	16°15'16" ♀	11°47'10"	-10°59'29"	00°00'43"	79.189
01/05/2048 00:00:00	♉	11°18'22" ♀	15°13'06"	-00°00'00"	00°58'14"	1.007
01/05/2048 00:00:00	♊	16°55'32" ♀	-23°49'19" ♀	-01°02'10"	14°53'07"	0.002
01/05/2048 00:00:00	♌	01°41'36" ♀	23°00'48"	02°34'19"	01°14'04"	0.925
01/05/2048 00:00:00	♌	03°53'58" ♀	11°43'34"	-01°09'23"	01°13'57"	1.712
01/05/2048 00:00:00	♌	20°22'23" ♀r	-23°34'00" ♀	-00°29'03"	-00°00'13"	0.618
01/05/2048 00:00:00	♌	01°47'08" ♀	19°53'34"	-00°37'59"	00°13'39"	5.966
01/05/2048 00:00:00	♌	15°57'08" ♀r	-21°53'00"	00°36'03"	-00°00'38"	9.567
01/05/2048 00:00:00	♌	07°05'51" ♀r	09°38'13"	00°47'26"	-00°00'41"	17.836
01/05/2048 00:00:00	♌	20°54'54" ♀	16°21'03"	-01°41'16"	00°02'13"	30.809
01/05/2048 00:00:00	♌	07°48'25" ♀	-19°59'49"	-12°16'59"	00°00'53"	41.474
01/05/2048 00:00:00	♏	28°30'19" ♀r	-23°25'28"	00°00'00"	-00°01'21"	0.002
01/05/2048 00:00:00	♋	08°19'57" ♀r	-13°09'01"	01°11'30"	-00°04'36"	7.764

Ephemerides year 2048

01/05/2048 00:00:00	☾	09°58'53" ♀	23°42'38" ○	01°47'22"	00°06'39"	0.003
01/05/2048 00:00:00	♄	28°30'19" ♂	-23°25'28"	00°00'00"	-00°01'21"	0.002
01/05/2048 00:00:00	♄	23°25'09" ♂	21°29'32"	02°57'54"	-02°02'15"	0.003
01/05/2048 00:00:00	X	00°33'04" ♂	06°07'34"	-05°54'08"	00°00'39"	94.109
01/05/2048 00:00:00	Y	16°15'59" ♀	11°47'20"	-10°59'23"	00°00'43"	79.198
02/05/2048 00:00:00	☉	12°16'36" ♂	15°31'00"	-00°00'00"	00°58'12"	1.008
02/05/2048 00:00:00	☾	01°40'50" ♂	-23°08'06"	00°17'13"	14°36'36"	0.002
02/05/2048 00:00:00	♁	02°53'24" ♀	23°17'25"	02°36'33"	01°09'30"	0.901
02/05/2048 00:00:00	♀	05°07'55" ♂	12°09'46"	-01°07'52"	01°13'57"	1.713
02/05/2048 00:00:00	♂	20°21'47" ♂	-23°36'43" ○	-00°31'49"	-00°00'57"	0.612
02/05/2048 00:00:00	♃	02°00'48" ♀	19°56'25"	-00°37'52"	00°13'41"	5.971
02/05/2048 00:00:00	♅	15°56'27" ♂	-21°53'06"	00°36'01"	-00°00'44"	9.552
02/05/2048 00:00:00	♁	07°05'12" ♂	09°38'25"	00°47'23"	-00°00'37"	17.851
02/05/2048 00:00:00	♁	20°57'08" ♂	16°21'39"	-01°41'16"	00°02'14"	30.812
02/05/2048 00:00:00	♃	07°49'17" ♂	-19°59'46"	-12°17'18"	00°00'51"	41.460
02/05/2048 00:00:00	♄	28°29'51" ♂	-23°25'28"	00°00'00"	00°00'18"	0.002
02/05/2048 00:00:00	♁	08°15'21" ♂	-13°07'13"	01°11'51"	-00°04'35"	7.766
02/05/2048 00:00:00	☾	10°05'32" ♀	23°42'48" ○	01°46'32"	00°06'39"	0.003
02/05/2048 00:00:00	♄	28°29'51" ♂	-23°25'28"	00°00'00"	00°00'18"	0.002



Ephemerides year 2048

02/05/2048 00:00:00	T♄	21°15'58" ♉	21°05'14"	03°07'34"	-02°13'38"	0.003
02/05/2048 00:00:00	X	00°33'43" ♉	06°07'48"	-05°54'07"	00°00'39"	94.106
02/05/2048 00:00:00	Y	16°16'43" ♉	11°47'29"	-10°59'18"	00°00'44"	79.207
03/05/2048 00:00:00	☉	13°14'48" ♉	15°48'39"	00°00'00"	00°58'11"	1.008
03/05/2048 00:00:00	☾	16°07'29" ♉	-20°54'13"	01°34'00"	14°16'15"	0.002
03/05/2048 00:00:00	♀	04°00'35" ♉	23°31'40" ♀	02°37'50"	01°04'50"	0.878
03/05/2048 00:00:00	♀	06°21'52" ♉	12°35'41"	-01°06'17"	01°13'56"	1.715
03/05/2048 00:00:00	♂	20°20'27" ♉	-23°39'25" ♀	-00°34'37"	-00°01'42"	0.605
03/05/2048 00:00:00	♃	02°14'30" ♉	19°59'14"	-00°37'45"	00°13'42"	5.977
03/05/2048 00:00:00	♅	15°55'39" ♉	-21°53'13"	00°36'00"	-00°00'50"	9.537
03/05/2048 00:00:00	♁	07°04'36" ♉	09°38'36"	00°47'21"	-00°00'34"	17.866
03/05/2048 00:00:00	♃	20°59'22" ♉	16°22'14"	-01°41'15"	00°02'14"	30.814
03/05/2048 00:00:00	♁	07°50'09" ♉	-19°59'44"	-12°17'37"	00°00'50"	41.446
03/05/2048 00:00:00	♁	28°30'40" ♉	-23°25'28"	00°00'00"	00°01'10"	0.002
03/05/2048 00:00:00	♁	08°10'46" ♉	-13°05'26"	01°12'12"	-00°04'34"	7.768
03/05/2048 00:00:00	♁	10°12'11" ♉	23°42'58" ♀	01°45'42"	00°06'39"	0.003
03/05/2048 00:00:00	T♁	28°30'40" ♉	-23°25'28"	00°00'00"	00°01'10"	0.002
03/05/2048 00:00:00	T♄	19°05'50" ♉	20°38'58"	03°17'05"	-02°01'30"	0.003
03/05/2048 00:00:00	X	00°34'22" ♉	06°08'03"	-05°54'05"	00°00'39"	94.102

Ephemerides year 2048

03/05/2048 00:00:00	Y	16°17'28" ♀	11°47'39"	-10°59'13"	00°00'44"	79.216
04/05/2048 00:00:00	☉	14°12'58" ♀	16°06'02"	00°00'00"	00°58'09"	1.008
04/05/2048 00:00:00	☾	00°12'52" ♁	-17°26'26"	02°43'13"	13°54'28"	0.002
04/05/2048 00:00:00	♀	05°03'04" ♀	23°43'35" ♁	02°38'07"	01°00'07"	0.855
04/05/2048 00:00:00	♀	07°35'48" ♀	13°01'18"	-01°04'40"	01°13'56"	1.716
04/05/2048 00:00:00	♂	20°18'22" ♂	-23°42'06" ♁	-00°37'28"	-00°02'28"	0.599
04/05/2048 00:00:00	♃	02°28'13" ♀	20°02'03"	-00°37'38"	00°13'44"	5.982
04/05/2048 00:00:00	♄	15°54'46" ♂	-21°53'21"	00°35'58"	-00°00'55"	9.522
04/05/2048 00:00:00	♅	07°04'02" ♃	09°38'47"	00°47'18"	-00°00'31"	17.881
04/05/2048 00:00:00	♆	21°01'37" ♀	16°22'50"	-01°41'14"	00°02'14"	30.817
04/05/2048 00:00:00	♇	07°50'59" ♂	-19°59'42"	-12°17'56"	00°00'49"	41.431
04/05/2048 00:00:00	♈	28°31'53" ♂	-23°25'29"	00°00'00"	00°01'05"	0.002
04/05/2048 00:00:00	♉	08°06'12" ♃	-13°03'38"	01°12'32"	-00°04'34"	7.770
04/05/2048 00:00:00	♊	10°18'51" ♀	23°43'07" ♁	01°44'52"	00°06'39"	0.003
04/05/2048 00:00:00	T♈	28°31'53" ♂	-23°25'29"	00°00'00"	00°01'05"	0.002
04/05/2048 00:00:00	T♉	17°24'00" ♀	20°17'11"	03°24'19"	-01°16'50"	0.003
04/05/2048 00:00:00	X	00°35'02" ♀	06°08'18"	-05°54'04"	00°00'39"	94.098
04/05/2048 00:00:00	Y	16°18'12" ♀	11°47'48"	-10°59'07"	00°00'44"	79.225
05/05/2048 00:00:00	☉	15°11'07" ♀	16°23'10"	00°00'00"	00°58'08"	1.008

Ephemerides year 2048

05/05/2048 00:00:00	♃	13°56'34" ♁	-13°06'21"	03°41'11"	13°33'06"	0.003
05/05/2048 00:00:00	♆	06°00'48" ♀	23°53'15" ♁	02°37'23"	00°55'19"	0.833
05/05/2048 00:00:00	♀	08°49'44" ♂	13°26'36"	-01°03'00"	01°13'55"	1.718
05/05/2048 00:00:00	♂	20°15'30" ♂	-23°44'47" ♁	-00°40'22"	-00°03'14"	0.593
05/05/2048 00:00:00	♃	02°41'59" ♀	20°04'50"	-00°37'31"	00°13'46"	5.988
05/05/2048 00:00:00	♄	15°53'47" ♂	-21°53'29"	00°35'57"	-00°01'01"	9.507
05/05/2048 00:00:00	♅	07°03'32" ♄	09°38'56"	00°47'16"	-00°00'28"	17.897
05/05/2048 00:00:00	♆	21°03'51" ♂	16°23'25"	-01°41'14"	00°02'14"	30.819
05/05/2048 00:00:00	♁	07°51'47" ♀	-19°59'41"	-12°18'15"	00°00'47"	41.417
05/05/2048 00:00:00	♂	28°32'34" ♂	-23°25'29"	00°00'00"	00°00'08"	0.002
05/05/2048 00:00:00	♄	08°01'38" ♄	-13°01'51"	01°12'52"	-00°04'33"	7.772
05/05/2048 00:00:00	♆	10°25'30" ♀	23°43'16" ♁	01°44'02"	00°06'39"	0.003
05/05/2048 00:00:00	♁	28°32'34" ♂	-23°25'29"	00°00'00"	00°00'08"	0.002
05/05/2048 00:00:00	♃	16°40'43" ♂	20°07'36"	03°27'21"	-00°06'47"	0.003
05/05/2048 00:00:00	X	00°35'41" ♂	06°08'32"	-05°54'03"	00°00'38"	94.094
05/05/2048 00:00:00	Y	16°18'57" ♀	11°47'58"	-10°59'02"	00°00'45"	79.234
06/05/2048 00:00:00	♁	16°09'14" ♂	16°40'01"	00°00'00"	00°58'06"	1.009
06/05/2048 00:00:00	♃	27°19'39" ♁	-08°14'08"	04°25'30"	13°13'22"	0.003
06/05/2048 00:00:00	♆	06°53'42" ♀	24°00'41" ♁	02°35'36"	00°50'28"	0.812

Ephemerides year 2048

06/05/2048 00:00:00	♀	10°03'40"	♋	13°51'35"	-01°01'17"	01°13'55"	1.719
06/05/2048 00:00:00	♂	20°11'53"	♌r	-23°47'28"	o-00°43'19"	-00°04'00"	0.587
06/05/2048 00:00:00	♃	02°55'45"	♈	20°07'37"	-00°37'24"	00°13'47"	5.993
06/05/2048 00:00:00	♅	15°52'43"	♍r	-21°53'38"	00°35'55"	-00°01'07"	9.493
06/05/2048 00:00:00	♁	07°03'05"	♉r	09°39'03"	00°47'14"	-00°00'25"	17.912
06/05/2048 00:00:00	♆	21°06'06"	♏	16°24'01"	-01°41'13"	00°02'14"	30.821
06/05/2048 00:00:00	♁	07°52'34"	♈	-19°59'41"	-12°18'34"	00°00'46"	41.402
06/05/2048 00:00:00	♄	28°31'58"	♌r	-23°25'29"	00°00'00"	-00°01'25"	0.002
06/05/2048 00:00:00	♅	07°57'05"	♍r	-13°00'04"	01°13'13"	-00°04'31"	7.775
06/05/2048 00:00:00	♁	10°32'09"	♈	23°43'24"	o 01°43'12"	00°06'39"	0.003
06/05/2048 00:00:00	T♄	28°31'58"	♌r	-23°25'29"	00°00'00"	-00°01'25"	0.002
06/05/2048 00:00:00	T♁	17°13'15"	♏	20°14'50"	03°25'05"	01°11'51"	0.003
06/05/2048 00:00:00	X	00°36'19"	♏	06°08'47"	-05°54'02"	00°00'38"	94.089
06/05/2048 00:00:00	Y	16°19'43"	♈	11°48'07"	-10°58'57"	00°00'45"	79.242
07/05/2048 00:00:00	☉	17°07'20"	♏	16°56'35"	00°00'00"	00°58'05"	1.009
07/05/2048 00:00:00	☾	10°24'03"	♈	-03°06'47"	04°54'50"	12°55'49"	0.003
07/05/2048 00:00:00	♆	07°41'43"	♈	24°05'58"	o 02°32'46"	00°45'33"	0.790
07/05/2048 00:00:00	♀	11°17'35"	♏	14°16'14"	-00°59'32"	01°13'55"	1.720
07/05/2048 00:00:00	♂	20°07'30"	♌r	-23°50'07"	o-00°46'19"	-00°04'46"	0.581

Ephemerides year 2048

07/05/2048 00:00:00	♃	03°09'34" ♀	20°10'23"	-00°37'18"	00°13'49"	5.998
07/05/2048 00:00:00	♅	15°51'32" ♁	-21°53'48"	00°35'54"	-00°01'13"	9.479
07/05/2048 00:00:00	♆	07°02'41" ♁	09°39'10"	00°47'11"	-00°00'22"	17.928
07/05/2048 00:00:00	♆	21°08'21" ♁	16°24'36"	-01°41'13"	00°02'15"	30.822
07/05/2048 00:00:00	♆	07°53'20" ♁	-19°59'41"	-12°18'53"	00°00'45"	41.388
07/05/2048 00:00:00	♆	28°29'38" ♁	-23°25'28"	00°00'00"	-00°03'15"	0.002
07/05/2048 00:00:00	♆	07°52'34" ♁	-12°58'18"	01°13'32"	-00°04'30"	7.779
07/05/2048 00:00:00	♆	10°38'48" ♀	23°43'32" ○	01°42'22"	00°06'39"	0.003
07/05/2048 00:00:00	T♆	28°29'38" ♁	-23°25'28"	00°00'00"	-00°03'15"	0.002
07/05/2048 00:00:00	T♆	19°01'57" ♁	20°38'12"	03°17'24"	02°23'18"	0.003
07/05/2048 00:00:00	X	00°36'58" ♁	06°09'01"	-05°54'00"	00°00'38"	94.084
07/05/2048 00:00:00	Y	16°20'28" ♀	11°48'16"	-10°58'52"	00°00'45"	79.250
08/05/2048 00:00:00	♁	18°05'25" ♁	17°12'52"	00°00'00"	00°58'03"	1.009
08/05/2048 00:00:00	♂	23°12'04" ♁	02°01'44"	05°08'45"	12°40'35"	0.003
08/05/2048 00:00:00	♀	08°24'48" ♀	24°09'07" ○	02°28'52"	00°40'35"	0.770
08/05/2048 00:00:00	♀	12°31'30" ♁	14°40'32"	-00°57'44"	01°13'54"	1.721
08/05/2048 00:00:00	♂	20°02'20" ♁	-23°52'46" ○	-00°49'21"	-00°05'32"	0.576
08/05/2048 00:00:00	♃	03°23'24" ♀	20°13'07"	-00°37'11"	00°13'50"	6.002
08/05/2048 00:00:00	♅	15°50'16" ♁	-21°53'58"	00°35'52"	-00°01'18"	9.464

Ephemerides year 2048

08/05/2048 00:00:00	♃	07°02'20" ♎r	09°39'16"	00°47'09"	-00°00'19"	17.944
08/05/2048 00:00:00	♃	21°10'36" ♎	16°25'12"	-01°41'13"	00°02'15"	30.824
08/05/2048 00:00:00	♃	07°54'04" ♎	-19°59'42"	-12°19'13"	00°00'43"	41.373
08/05/2048 00:00:00	♃	28°25'29" ♎r	-23°25'25"	00°00'00"	-00°04'58"	0.002
08/05/2048 00:00:00	♃	07°48'04" ♎r	-12°56'33"	01°13'52"	-00°04'29"	7.782
08/05/2048 00:00:00	♃	10°45'27" ♎	23°43'40" o	01°41'32"	00°06'39"	0.003
08/05/2048 00:00:00	♃	28°25'29" ♎r	-23°25'25"	00°00'00"	-00°04'58"	0.002
08/05/2048 00:00:00	♃	21°54'04" ♎	21°12'40"	03°04'50"	03°17'31"	0.003
08/05/2048 00:00:00	X	00°37'37" ♎	06°09'15"	-05°53'59"	00°00'38"	94.079
08/05/2048 00:00:00	Y	16°21'15" ♎	11°48'25"	-10°58'48"	00°00'46"	79.258
09/05/2048 00:00:00	♃	19°03'28" ♎	17°28'53"	00°00'00"	00°58'02"	1.009
09/05/2048 00:00:00	♃	05°45'57" ♎	06°59'33"	05°07'26"	12°27'32"	0.003
09/05/2048 00:00:00	♃	09°02'53" ♎	24°10'12" o	02°23'53"	00°35'33"	0.750
09/05/2048 00:00:00	♃	13°45'25" ♎	15°04'28"	-00°55'54"	01°13'54"	1.723
09/05/2048 00:00:00	♃	19°56'24" ♎r	-23°55'24" o	-00°52'27"	-00°06'19"	0.570
09/05/2048 00:00:00	♃	03°37'15" ♎	20°15'51"	-00°37'04"	00°13'51"	6.007
09/05/2048 00:00:00	♃	15°48'55" ♎r	-21°54'10"	00°35'51"	-00°01'24"	9.450
09/05/2048 00:00:00	♃	07°02'02" ♎r	09°39'20"	00°47'06"	-00°00'16"	17.959
09/05/2048 00:00:00	♃	21°12'51" ♎	16°25'47"	-01°41'12"	00°02'15"	30.825

Ephemerides year 2048

09/05/2048 00:00:00	♁	07°54'47"	♈	-19°59'44"	-12°19'32"	00°00'42"	41.358
09/05/2048 00:00:00	♁	28°19'49"	♈	-23°25'20"	00°00'00"	-00°06'14"	0.002
09/05/2048 00:00:00	♁	07°43'36"	♈	-12°54'48"	01°14'12"	-00°04'27"	7.786
09/05/2048 00:00:00	♁	10°52'06"	♈	23°43'47"	♁ 01°40'42"	00°06'39"	0.003
09/05/2048 00:00:00	♁	28°19'49"	♈	-23°25'20"	00°00'00"	-00°06'14"	0.002
09/05/2048 00:00:00	♁	25°29'36"	♈	21°51'17"	02°48'26"	03°49'39"	0.003
09/05/2048 00:00:00	X	00°38'15"	♈	06°09'29"	-05°53'58"	00°00'38"	94.074
09/05/2048 00:00:00	Y	16°22'01"	♈	11°48'34"	-10°58'43"	00°00'46"	79.265
10/05/2048 00:00:00	♁	20°01'30"	♈	17°44'35"	00°00'00"	00°58'01"	1.010
10/05/2048 00:00:00	♁	18°07'47"	♈	11°35'58"	04°51'44"	12°16'24"	0.003
10/05/2048 00:00:00	♁	09°35'55"	♈	24°09'17"	♁ 02°17'48"	00°30'30"	0.731
10/05/2048 00:00:00	♁	14°59'19"	♈	15°28'02"	-00°54'02"	01°13'53"	1.724
10/05/2048 00:00:00	♁	19°49'42"	♈	-23°58'01"	♁ -00°55'35"	-00°07'05"	0.565
10/05/2048 00:00:00	♁	03°51'07"	♈	20°18'33"	-00°36'58"	00°13'53"	6.011
10/05/2048 00:00:00	♁	15°47'27"	♈	-21°54'21"	00°35'49"	-00°01'29"	9.436
10/05/2048 00:00:00	♁	07°01'47"	♈	09°39'23"	00°47'04"	-00°00'12"	17.975
10/05/2048 00:00:00	♁	21°15'07"	♈	16°26'22"	-01°41'12"	00°02'15"	30.825
10/05/2048 00:00:00	♁	07°55'29"	♈	-19°59'46"	-12°19'52"	00°00'40"	41.343
10/05/2048 00:00:00	♁	28°13'12"	♈	-23°25'15"	00°00'00"	-00°06'51"	0.002

Ephemerides year 2048

10/05/2048 00:00:00	♁	07°39'09" ♎	-12°53'03"	01°14'31"	-00°04'25"	7.790
10/05/2048 00:00:00	♁	10°58'45" ♎	23°43'54" ♋	01°39'52"	00°06'39"	0.003
10/05/2048 00:00:00	♁	28°13'12" ♎	-23°25'15"	00°00'00"	-00°06'51"	0.002
10/05/2048 00:00:00	♁	29°25'40" ♎	22°27'30"	02°29'42"	03°58'42"	0.003
10/05/2048 00:00:00	X	00°38'53" ♎	06°09'43"	-05°53'58"	00°00'37"	94.068
10/05/2048 00:00:00	Y	16°22'48" ♎	11°48'43"	-10°58'39"	00°00'47"	79.273
11/05/2048 00:00:00	♁	20°59'30" ♎	18°00'00"	00°00'00"	00°57'59"	1.010
11/05/2048 00:00:00	♁	00°19'20" ♎	15°40'52"	04°22'53"	12°06'59"	0.003
11/05/2048 00:00:00	♁	10°03'53" ♎	24°06'23" ♋	02°10'37"	00°25'25"	0.713
11/05/2048 00:00:00	♁	16°13'13" ♎	15°51'13"	-00°52'07"	01°13'53"	1.725
11/05/2048 00:00:00	♁	19°42'14" ♎	-24°00'36" ♋	-00°58'45"	-00°07'50"	0.560
11/05/2048 00:00:00	♁	04°05'01" ♎	20°21'15"	-00°36'52"	00°13'54"	6.015
11/05/2048 00:00:00	♁	15°45'55" ♎	-21°54'34"	00°35'47"	-00°01'35"	9.423
11/05/2048 00:00:00	♁	07°01'36" ♎	09°39'25"	00°47'01"	-00°00'09"	17.991
11/05/2048 00:00:00	♁	21°17'22" ♎	16°26'58"	-01°41'12"	00°02'15"	30.826
11/05/2048 00:00:00	♁	07°56'09" ♎	-19°59'49"	-12°20'12"	00°00'39"	41.328
11/05/2048 00:00:00	♁	28°06'21" ♎	-23°25'09"	00°00'00"	-00°06'43"	0.002
11/05/2048 00:00:00	♁	07°34'45" ♎	-12°51'20"	01°14'50"	-00°04'23"	7.794
11/05/2048 00:00:00	♁	11°05'24" ♎	23°44'01" ♋	01°39'01"	00°06'39"	0.003



Ephemerides year 2048

11/05/2048 00:00:00	T♄	28°06'21" ♄	-23°25'09"	00°00'00"	-00°06'43"	0.002
11/05/2048 00:00:00	T♄	03°20'14" ♀	22°56'58"	02°10'22"	03°47'32"	0.003
11/05/2048 00:00:00	X	00°39'31" ♄	06°09'57"	-05°53'57"	00°00'37"	94.062
11/05/2048 00:00:00	Y	16°23'35" ♀	11°48'52"	-10°58'34"	00°00'47"	79.280
12/05/2048 00:00:00	♁	21°57'29" ♄	18°15'07"	00°00'00"	00°57'58"	1.010
12/05/2048 00:00:00	♂	12°22'17" ♄	19°04'30"	03°42'33"	11°59'09"	0.003
12/05/2048 00:00:00	♀	10°26'46" ♀	24°01'34" ♁	02°02'21"	00°20'19"	0.695
12/05/2048 00:00:00	♀	17°27'06" ♄	16°13'59"	-00°50'10"	01°13'53"	1.726
12/05/2048 00:00:00	♂	19°34'00" ♄	-24°03'09" ♁	-01°01'58"	-00°08'36"	0.554
12/05/2048 00:00:00	♃	04°18'56" ♀	20°23'55"	-00°36'45"	00°13'55"	6.019
12/05/2048 00:00:00	♃	15°44'17" ♄	-21°54'47"	00°35'45"	-00°01'40"	9.409
12/05/2048 00:00:00	♃	07°01'28" ♄	09°39'26"	00°46'59"	-00°00'06"	18.007
12/05/2048 00:00:00	♃	21°19'37" ♄	16°27'33"	-01°41'12"	00°02'15"	30.826
12/05/2048 00:00:00	♃	07°56'48" ♃	-19°59'52"	-12°20'32"	00°00'38"	41.312
12/05/2048 00:00:00	♁	27°59'59" ♄	-23°25'04"	00°00'00"	-00°05'53"	0.002
12/05/2048 00:00:00	♃	07°30'22" ♄	-12°49'37"	01°15'09"	-00°04'21"	7.799
12/05/2048 00:00:00	♃	11°12'04" ♀	23°44'07" ♁	01°38'11"	00°06'39"	0.003
12/05/2048 00:00:00	T♄	27°59'59" ♄	-23°25'04"	00°00'00"	-00°05'53"	0.002
12/05/2048 00:00:00	T♄	06°56'24" ♀	23°18'10"	01°52'00"	03°23'24"	0.003

Ephemerides year 2048

12/05/2048 00:00:00	X	00°40'08" ♄	06°10'10"	-05°53'56"	00°00'37"	94.056
12/05/2048 00:00:00	Y	16°24'23" ♀	11°49'00"	-10°58'30"	00°00'47"	79.287
13/05/2048 00:00:00	♁	22°55'27" ♄	18°29'55"	00°00'00"	00°57'56"	1.010
13/05/2048 00:00:00	♃	24°18'13" ♄	21°37'54"	02°52'45"	11°52'59"	0.003
13/05/2048 00:00:00	♁	10°44'33" ♀	23°54'52" ○	01°52'59"	00°15'14"	0.679
13/05/2048 00:00:00	♁	18°40'59" ♄	16°36'22"	-00°48'11"	01°13'52"	1.727
13/05/2048 00:00:00	♂	19°25'01" ♄r	-24°05'41" ○	-01°05'13"	-00°09'21"	0.549
13/05/2048 00:00:00	♃	04°32'52" ♀	20°26'34"	-00°36'39"	00°13'56"	6.023
13/05/2048 00:00:00	♃	15°42'33" ♄r	-21°55'01"	00°35'43"	-00°01'46"	9.396
13/05/2048 00:00:00	♃	07°01'23" ♃r	09°39'25"	00°46'56"	-00°00'03"	18.024
13/05/2048 00:00:00	♁	21°21'53" ♄	16°28'08"	-01°41'12"	00°02'15"	30.826
13/05/2048 00:00:00	♁	07°57'26" ♃	-19°59'56"	-12°20'52"	00°00'36"	41.297
13/05/2048 00:00:00	♁	27°54'44" ♄r	-23°24'59"	00°00'00"	-00°04'32"	0.002
13/05/2048 00:00:00	♁	07°26'02" ♃r	-12°47'55"	01°15'28"	-00°04'19"	7.804
13/05/2048 00:00:00	♁	11°18'43" ♀	23°44'13" ○	01°37'21"	00°06'39"	0.003
13/05/2048 00:00:00	T♁	27°54'44" ♄r	-23°24'59"	00°00'00"	-00°04'32"	0.002
13/05/2048 00:00:00	T♁	10°06'07" ♀	23°31'59" ○	01°35'31"	02°56'24"	0.003
13/05/2048 00:00:00	X	00°40'46" ♄	06°10'24"	-05°53'55"	00°00'37"	94.050
13/05/2048 00:00:00	Y	16°25'10" ♀	11°49'09"	-10°58'26"	00°00'48"	79.293

Ephemerides year 2048

14/05/2048 00:00:00	☉	23°53'23" ♉	18°44'24"	00°00'00"	00°57'55"	1.011
14/05/2048 00:00:00	☾	06°08'53" ♉	23°13'38"	01°55'42"	11°48'41"	0.003
14/05/2048 00:00:00	♃	10°57'16" ♉	23°46'22" ○	01°42'34"	00°10'11"	0.663
14/05/2048 00:00:00	♂	19°54'52" ♉	16°58'19"	-00°46'10"	01°13'52"	1.728
14/05/2048 00:00:00	♂	19°15'18" ♉	-24°08'11" ○	-01°08'31"	-00°10'05"	0.545
14/05/2048 00:00:00	♃	04°46'49" ♉	20°29'12"	-00°36'33"	00°13'57"	6.026
14/05/2048 00:00:00	♃	15°40'44" ♉	-21°55'15"	00°35'42"	-00°01'51"	9.382
14/05/2048 00:00:00	♃	07°01'22" ♉	09°39'23"	00°46'54"	00°00'00"	18.040
14/05/2048 00:00:00	♃	21°24'08" ♉	16°28'43"	-01°41'12"	00°02'15"	30.825
14/05/2048 00:00:00	♃	07°58'02" ♉	-20°00'01"	-12°21'12"	00°00'35"	41.282
14/05/2048 00:00:00	♃	27°51'00" ♉	-23°24'55"	00°00'00"	-00°02'54"	0.002
14/05/2048 00:00:00	♃	07°21'44" ♉	-12°46'14"	01°15'46"	-00°04'16"	7.809
14/05/2048 00:00:00	♃	11°25'22" ♉	23°44'18" ○	01°36'30"	00°06'39"	0.003
14/05/2048 00:00:00	♃	27°51'00" ♉	-23°24'55"	00°00'00"	-00°02'54"	0.002
14/05/2048 00:00:00	♃	12°51'12" ♉	23°40'20" ○	01°20'58"	02°35'09"	0.003
14/05/2048 00:00:00	X	00°41'23" ♉	06°10'37"	-05°53'55"	00°00'37"	94.043
14/05/2048 00:00:00	Y	16°25'59" ♉	11°49'17"	-10°58'22"	00°00'48"	79.299
15/05/2048 00:00:00	☉	24°51'17" ♉	18°58'34"	00°00'00"	00°57'53"	1.011
15/05/2048 00:00:00	☾	17°56'21" ♉	23°46'43" ○	00°53'47"	11°46'39"	0.003

Ephemerides year 2048

15/05/2048 00:00:00	♀	11°04'57" ♀	23°36'06" ♀	01°31'06"	00°05'12"	0.648
15/05/2048 00:00:00	♀	21°08'44" ♀	17°19'50"	-00°44'07"	01°13'51"	1.729
15/05/2048 00:00:00	♂	19°04'50" ♂	-24°10'38" ♀	-01°11'50"	-00°10'49"	0.540
15/05/2048 00:00:00	♂	05°00'47" ♀	20°31'49"	-00°36'27"	00°13'58"	6.030
15/05/2048 00:00:00	♂	15°38'50" ♂	-21°55'31"	00°35'40"	-00°01'56"	9.369
15/05/2048 00:00:00	♂	07°01'24" ♀	09°39'20"	00°46'51"	00°00'03"	18.056
15/05/2048 00:00:00	♀	21°26'23" ♀	16°29'18"	-01°41'12"	00°02'15"	30.825
15/05/2048 00:00:00	♂	07°58'37" ♂	-20°00'06"	-12°21'32"	00°00'34"	41.266
15/05/2048 00:00:00	♂	27°48'56" ♂	-23°24'53"	00°00'00"	-00°01'14"	0.002
15/05/2048 00:00:00	♂	07°17'29" ♀	-12°44'34"	01°16'04"	-00°04'13"	7.815
15/05/2048 00:00:00	♀	11°32'01" ♀	23°44'23" ♀	01°35'40"	00°06'39"	0.003
15/05/2048 00:00:00	♂	27°48'56" ♂	-23°24'53"	00°00'00"	-00°01'14"	0.002
15/05/2048 00:00:00	♂	15°19'19" ♀	23°44'56" ♀	01°07'51"	02°22'18"	0.003
15/05/2048 00:00:00	X	00°42'00" ♀	06°10'51"	-05°53'54"	00°00'37"	94.036
15/05/2048 00:00:00	Y	16°26'47" ♀	11°49'26"	-10°58'18"	00°00'48"	79.305
16/05/2048 00:00:00	♂	25°49'10" ♀	19°12'25"	-00°00'00"	00°57'52"	1.011
16/05/2048 00:00:00	♂	29°43'07" ♀	23°15'28"	-00°10'28"	11°47'22"	0.003
16/05/2048 00:00:00	♀	11°07'42" ♀	23°24'08"	01°18'38"	00°00'18"	0.634
16/05/2048 00:00:00	♀	22°22'35" ♀	17°40'54"	-00°42'02"	01°13'51"	1.729

Ephemerides year 2048

16/05/2048 00:00:00	♂	18°53'40" ♏r	-24°13'03" ♁	-01°15'12"	-00°11'31"	0.535
16/05/2048 00:00:00	♃	05°14'46" ♁	20°34'25"	-00°36'21"	00°13'59"	6.033
16/05/2048 00:00:00	♅	15°36'50" ♏r	-21°55'46"	00°35'38"	-00°02'02"	9.357
16/05/2048 00:00:00	♁	07°01'29" ♏	09°39'16"	00°46'49"	00°00'06"	18.073
16/05/2048 00:00:00	♆	21°28'39" ♏	16°29'53"	-01°41'12"	00°02'15"	30.824
16/05/2048 00:00:00	♁	07°59'10" ♁	-20°00'12"	-12°21'52"	00°00'32"	41.251
16/05/2048 00:00:00	♁	27°48'27" ♏r	-23°24'53"	00°00'00"	00°00'12"	0.002
16/05/2048 00:00:00	♃	07°13'16" ♏r	-12°42'55"	01°16'23"	-00°04'11"	7.820
16/05/2048 00:00:00	♁	11°38'40" ♁	23°44'28" ♁	01°34'49"	00°06'39"	0.003
16/05/2048 00:00:00	♁	27°48'27" ♏r	-23°24'53"	00°00'00"	00°00'12"	0.002
16/05/2048 00:00:00	♁	17°37'26" ♁	23°46'44" ♁	00°55'33"	02°14'09"	0.003
16/05/2048 00:00:00	X	00°42'37" ♏	06°11'04"	-05°53'53"	00°00'36"	94.029
16/05/2048 00:00:00	Y	16°27'36" ♁	11°49'34"	-10°58'14"	00°00'48"	79.311
17/05/2048 00:00:00	♁	26°47'01" ♏	19°25'57"	-00°00'00"	00°57'50"	1.011
17/05/2048 00:00:00	♃	11°32'13" ♁	21°41'33"	-01°14'38"	11°51'25"	0.003
17/05/2048 00:00:00	♁	11°05'37" ♁r	23°10'33"	01°05'13"	-00°04'27"	0.621
17/05/2048 00:00:00	♀	23°36'27" ♏	18°01'31"	-00°39'55"	01°13'50"	1.730
17/05/2048 00:00:00	♂	18°41'47" ♏r	-24°15'25" ♁	-01°18'35"	-00°12'13"	0.531
17/05/2048 00:00:00	♃	05°28'46" ♁	20°36'59"	-00°36'15"	00°13'59"	6.036

Ephemerides year 2048

17/05/2048 00:00:00	♃	15°34'45" ♏	-21°56'03"	00°35'35"	-00°02'07"	9.344
17/05/2048 00:00:00	♃	07°01'37" ♏	09°39'10"	00°46'46"	00°00'09"	18.089
17/05/2048 00:00:00	♃	21°30'54" ♏	16°30'28"	-01°41'12"	00°02'15"	30.823
17/05/2048 00:00:00	♃	07°59'42" ♏	-20°00'18"	-12°22'13"	00°00'31"	41.235
17/05/2048 00:00:00	♃	27°49'13" ♏	-23°24'53"	00°00'00"	00°01'14"	0.002
17/05/2048 00:00:00	♃	07°09'07" ♏	-12°41'17"	01°16'41"	-00°04'08"	7.826
17/05/2048 00:00:00	♃	11°45'20" ♏	23°44'32" ♀	01°33'59"	00°06'39"	0.003
17/05/2048 00:00:00	♃	27°49'13" ♏	-23°24'53"	00°00'00"	00°01'14"	0.002
17/05/2048 00:00:00	♃	19°46'57" ♏	23°46'16" ♀	00°44'01"	02°03'58"	0.003
17/05/2048 00:00:00	X	00°43'14" ♏	06°11'17"	-05°53'53"	00°00'36"	94.022
17/05/2048 00:00:00	Y	16°28'25" ♏	11°49'42"	-10°58'11"	00°00'49"	79.317
18/05/2048 00:00:00	♃	27°44'51" ♏	19°39'08"	-00°00'00"	00°57'48"	1.011
18/05/2048 00:00:00	♃	23°27'15" ♏	19°09'33"	-02°16'10"	11°59'18"	0.003
18/05/2048 00:00:00	♃	10°58'52" ♏	22°55'26"	00°50'54"	-00°09'01"	0.609
18/05/2048 00:00:00	♃	24°50'17" ♏	18°21'40"	-00°37'47"	01°13'50"	1.731
18/05/2048 00:00:00	♃	18°29'13" ♏	-24°17'44" ♀	-01°22'00"	-00°12'54"	0.527
18/05/2048 00:00:00	♃	05°42'46" ♏	20°39'33"	-00°36'09"	00°14'00"	6.039
18/05/2048 00:00:00	♃	15°32'35" ♏	-21°56'20"	00°35'33"	-00°02'12"	9.331
18/05/2048 00:00:00	♃	07°01'49" ♏	09°39'04"	00°46'44"	00°00'13"	18.105

Ephemerides year 2048

18/05/2048 00:00:00	♁	21°33'09"	♄	16°31'02"	-01°41'12"	00°02'14"	30.821
18/05/2048 00:00:00	♁	08°00'13"	♃	-20°00'25"	-12°22'33"	00°00'29"	41.220
18/05/2048 00:00:00	♁	27°50'45"	♂	-23°24'55"	00°00'00"	00°01'43"	0.002
18/05/2048 00:00:00	♁	07°05'00"	♃	-12°39'40"	01°16'58"	-00°04'05"	7.833
18/05/2048 00:00:00	♁	11°51'59"	♁	23°44'36"	♁ 01°33'08"	00°06'39"	0.003
18/05/2048 00:00:00	T♁	27°50'45"	♂	-23°24'55"	00°00'00"	00°01'43"	0.002
18/05/2048 00:00:00	T♁	21°42'34"	♁	23°44'02"	♁ 00°33'41"	01°45'26"	0.003
18/05/2048 00:00:00	X	00°43'50"	♄	06°11'29"	-05°53'52"	00°00'36"	94.014
18/05/2048 00:00:00	Y	16°29'15"	♁	11°49'50"	-10°58'07"	00°00'49"	79.322
19/05/2048 00:00:00	♁	28°42'39"	♄	19°52'00"	-00°00'00"	00°57'47"	1.012
19/05/2048 00:00:00	♁	05°32'17"	♁	15°46'00"	-03°12'34"	12°11'29"	0.003
19/05/2048 00:00:00	♁	10°47'38"	♁	22°38'53"	00°35'46"	-00°13'22"	0.598
19/05/2048 00:00:00	♁	26°04'07"	♄	18°41'20"	-00°35'37"	01°13'49"	1.731
19/05/2048 00:00:00	♁	18°15'58"	♂	-24°20'00"	♁ -01°25'26"	-00°13'34"	0.523
19/05/2048 00:00:00	♁	05°56'47"	♁	20°42'05"	-00°36'03"	00°14'01"	6.041
19/05/2048 00:00:00	♁	15°30'20"	♂	-21°56'37"	00°35'31"	-00°02'17"	9.319
19/05/2048 00:00:00	♁	07°02'04"	♁	09°38'56"	00°46'41"	00°00'16"	18.122
19/05/2048 00:00:00	♁	21°35'23"	♄	16°31'37"	-01°41'12"	00°02'14"	30.819
19/05/2048 00:00:00	♁	08°00'42"	♃	-20°00'33"	-12°22'54"	00°00'28"	41.204

Ephemerides year 2048

19/05/2048 00:00:00	♏	27°52'29" ♄	-23°24'56"	00°00'00"	00°01'37"	0.002
19/05/2048 00:00:00	♋	07°00'56" ♃	-12°38'04"	01°17'16"	-00°04'02"	7.839
19/05/2048 00:00:00	♌	11°58'38" ♀	23°44'40" ☾	01°32'18"	00°06'39"	0.003
19/05/2048 00:00:00	♏	27°52'29" ♄	-23°24'56"	00°00'00"	00°01'37"	0.002
19/05/2048 00:00:00	♌	23°13'42" ♀	23°41'06" ☾	00°25'33"	01°14'33"	0.003
19/05/2048 00:00:00	X	00°44'26" ♄	06°11'42"	-05°53'52"	00°00'35"	94.006
19/05/2048 00:00:00	Y	16°30'04" ♀	11°49'58"	-10°58'04"	00°00'49"	79.327
20/05/2048 00:00:00	♏	29°40'25" ♄	20°04'31"	-00°00'00"	00°57'45"	1.012
20/05/2048 00:00:00	♎	17°51'45" ♃	11°38'33"	-04°01'15"	12°28'12"	0.003
20/05/2048 00:00:00	♌	10°32'12" ♀	22°21'00"	00°19'55"	-00°17'26"	0.588
20/05/2048 00:00:00	♌	27°17'57" ♄	19°00'30"	-00°33'25"	01°13'49"	1.732
20/05/2048 00:00:00	♌	18°02'05" ♄	-24°22'11" ☾	-01°28'53"	-00°14'12"	0.519
20/05/2048 00:00:00	♌	06°10'48" ♀	20°44'36"	-00°35'57"	00°14'01"	6.043
20/05/2048 00:00:00	♌	15°28'00" ♄	-21°56'56"	00°35'29"	-00°02'22"	9.307
20/05/2048 00:00:00	♌	07°02'21" ♃	09°38'47"	00°46'39"	00°00'19"	18.139
20/05/2048 00:00:00	♌	21°37'38" ♄	16°32'11"	-01°41'13"	00°02'14"	30.817
20/05/2048 00:00:00	♌	08°01'09" ♃	-20°00'41"	-12°23'14"	00°00'26"	41.188
20/05/2048 00:00:00	♏	27°53'50" ♄	-23°24'58"	00°00'00"	00°01'00"	0.002
20/05/2048 00:00:00	♋	06°56'56" ♃	-12°36'29"	01°17'33"	-00°03'58"	7.846



Ephemerides year 2048

20/05/2048 00:00:00	☾	12°05'17" ♀	23°44'43" ♀	01°31'27"	00°06'39"	0.003
20/05/2048 00:00:00	♄	27°53'50" ♂	-23°24'58"	00°00'00"	00°01'00"	0.002
20/05/2048 00:00:00	♄	24°07'10" ♀	23°38'54" ♀	00°20'47"	00°30'15"	0.003
20/05/2048 00:00:00	X	00°45'02" ♂	06°11'55"	-05°53'52"	00°00'35"	93.998
20/05/2048 00:00:00	Y	16°30'54" ♀	11°50'06"	-10°58'01"	00°00'49"	79.332
21/05/2048 00:00:00	☉	00°38'10" ♀	20°16'41"	-00°00'00"	00°57'43"	1.012
21/05/2048 00:00:00	☾	00°30'10" ♀	06°55'39"	-04°39'36"	12°49'19"	0.003
21/05/2048 00:00:00	♁	10°12'52" ♀	22°01'55"	00°03'28"	-00°21'10"	0.579
21/05/2048 00:00:00	♀	28°31'45" ♂	19°19'10"	-00°31'12"	01°13'48"	1.733
21/05/2048 00:00:00	♂	17°47'34" ♂	-24°24'19" ♀	-01°32'21"	-00°14'49"	0.515
21/05/2048 00:00:00	♃	06°24'50" ♀	20°47'05"	-00°35'52"	00°14'01"	6.046
21/05/2048 00:00:00	♅	15°25'35" ♂	-21°57'14"	00°35'27"	-00°02'27"	9.295
21/05/2048 00:00:00	♁	07°02'43" ♀	09°38'37"	00°46'36"	00°00'22"	18.155
21/05/2048 00:00:00	♁	21°39'52" ♂	16°32'45"	-01°41'13"	00°02'13"	30.815
21/05/2048 00:00:00	♃	08°01'35" ♂	-20°00'50"	-12°23'35"	00°00'25"	41.173
21/05/2048 00:00:00	♁	27°54'22" ♂	-23°24'58"	00°00'00"	00°00'00"	0.002
21/05/2048 00:00:00	♁	06°52'59" ♀	-12°34'56"	01°17'50"	-00°03'55"	7.854
21/05/2048 00:00:00	☾	12°11'56" ♀	23°44'46" ♀	01°30'36"	00°06'39"	0.003
21/05/2048 00:00:00	♄	27°54'22" ♂	-23°24'58"	00°00'00"	00°00'00"	0.002

Ephemerides year 2048

21/05/2048 00:00:00	T♄	24°10'36" ♀	23°38'48" ○	00°20'31"	-00°24'38"	0.003
21/05/2048 00:00:00	X	00°45'37" ♂	06°12'07"	-05°53'51"	00°00'35"	93.989
21/05/2048 00:00:00	Y	16°31'44" ♀	11°50'13"	-10°57'58"	00°00'50"	79.336
22/05/2048 00:00:00	☉	01°35'53" ♀	20°28'31"	-00°00'00"	00°57'42"	1.012
22/05/2048 00:00:00	☾	13°31'41" ♀	01°46'41"	-05°04'57"	13°14'15"	0.003
22/05/2048 00:00:00	♀	09°49'58" ♀	21°41'47"	-00°13'29"	-00°24'31"	0.572
22/05/2048 00:00:00	♀	29°45'34" ♂	19°37'19"	-00°28'58"	01°13'48"	1.733
22/05/2048 00:00:00	♂	17°32'27" ♂	-24°26'23" ○	-01°35'50"	-00°15'24"	0.511
22/05/2048 00:00:00	♃	06°38'52" ♀	20°49'33"	-00°35'46"	00°14'02"	6.047
22/05/2048 00:00:00	♅	15°23'05" ♂	-21°57'34"	00°35'24"	-00°02'32"	9.283
22/05/2048 00:00:00	♁	07°03'07" ♀	09°38'25"	00°46'34"	00°00'25"	18.172
22/05/2048 00:00:00	♃	21°42'06" ♂	16°33'19"	-01°41'13"	00°02'13"	30.812
22/05/2048 00:00:00	♁	08°02'00" ♀	-20°01'00"	-12°23'56"	00°00'23"	41.157
22/05/2048 00:00:00	♁	27°53'48" ♂	-23°24'58"	00°00'00"	-00°01'07"	0.002
22/05/2048 00:00:00	♁	06°49'05" ♀	-12°33'24"	01°18'07"	-00°03'51"	7.861
22/05/2048 00:00:00	♁	12°18'35" ♀	23°44'48" ○	01°29'46"	00°06'38"	0.003
22/05/2048 00:00:00	T♁	27°53'48" ♂	-23°24'58"	00°00'00"	-00°01'07"	0.002
22/05/2048 00:00:00	T♄	23°16'58" ♀	23°41'06" ○	00°25'23"	-01°22'05"	0.003
22/05/2048 00:00:00	X	00°46'12" ♂	06°12'19"	-05°53'51"	00°00'34"	93.980

Ephemerides year 2048

22/05/2048 00:00:00	Y	16°32'34" ♀	11°50'21"	-10°57'55"	00°00'50"	79.340
23/05/2048 00:00:00	☉	02°33'34" ♀	20°39'59"	-00°00'00"	00°57'40"	1.012
23/05/2048 00:00:00	☾	26°59'32" ♃	-03°37'03"	-05°14'41"	13°41'44"	0.003
23/05/2048 00:00:00	♀	09°23'57" ♀	21°20'47"	-00°30'48"	-00°27'26"	0.565
23/05/2048 00:00:00	♀	00°59'22" ♀	19°54'56"	-00°26'42"	01°13'47"	1.733
23/05/2048 00:00:00	♂	17°16'45" ♂	-24°28'22"	o-01°39'20"	-00°15'58"	0.508
23/05/2048 00:00:00	♃	06°52'54" ♀	20°52'00"	-00°35'41"	00°14'02"	6.049
23/05/2048 00:00:00	♅	15°20'30" ♂	-21°57'54"	00°35'22"	-00°02'37"	9.272
23/05/2048 00:00:00	♃	07°03'34" ♃	09°38'13"	00°46'31"	00°00'29"	18.188
23/05/2048 00:00:00	♃	21°44'19" ♂	16°33'53"	-01°41'14"	00°02'13"	30.810
23/05/2048 00:00:00	♃	08°02'23" ♂	-20°01'10"	-12°24'16"	00°00'22"	41.141
23/05/2048 00:00:00	♁	27°52'08" ♂	-23°24'56"	00°00'00"	-00°02'10"	0.002
23/05/2048 00:00:00	♃	06°45'15" ♃	-12°31'53"	01°18'24"	-00°03'48"	7.869
23/05/2048 00:00:00	♀	12°25'14" ♀	23°44'51"	o 01°28'55"	00°06'38"	0.003
23/05/2048 00:00:00	T♁	27°52'08" ♂	-23°24'56"	00°00'00"	-00°02'10"	0.002
23/05/2048 00:00:00	T♃	21°29'51" ♀	23°44'34"	o 00°35'01"	-02°09'16"	0.003
23/05/2048 00:00:00	X	00°46'47" ♂	06°12'31"	-05°53'51"	00°00'34"	93.971
23/05/2048 00:00:00	Y	16°33'24" ♀	11°50'28"	-10°57'52"	00°00'50"	79.344
24/05/2048 00:00:00	☉	03°31'14" ♀	20°51'06"	-00°00'00"	00°57'38"	1.013

Ephemerides year 2048

24/05/2048 00:00:00	♃	10°55'22"	♈	-09°01'12"	-05°06'37"	14°09'47"	0.002
24/05/2048 00:00:00	♃	08°55'16"	♈	20°59'06"	-00°48'20"	-00°29'51"	0.560
24/05/2048 00:00:00	♃	02°13'09"	♈	20°12'02"	-00°24'26"	01°13'47"	1.734
24/05/2048 00:00:00	♃	17°00'30"	♈	-24°30'16"	o-01°42'50"	-00°16'30"	0.504
24/05/2048 00:00:00	♃	07°06'57"	♈	20°54'25"	-00°35'35"	00°14'02"	6.051
24/05/2048 00:00:00	♃	15°17'51"	♈	-21°58'14"	00°35'20"	-00°02'41"	9.261
24/05/2048 00:00:00	♃	07°04'05"	♈	09°37'59"	00°46'29"	00°00'32"	18.205
24/05/2048 00:00:00	♃	21°46'33"	♈	16°34'27"	-01°41'14"	00°02'12"	30.807
24/05/2048 00:00:00	♃	08°02'45"	♈	-20°01'21"	-12°24'37"	00°00'20"	41.125
24/05/2048 00:00:00	♃	27°49'34"	♈	-23°24'54"	00°00'00"	-00°02'53"	0.002
24/05/2048 00:00:00	♃	06°41'29"	♈	-12°30'23"	01°18'41"	-00°03'44"	7.877
24/05/2048 00:00:00	♃	12°31'53"	♈	23°44'52"	o 01°28'04"	00°06'38"	0.003
24/05/2048 00:00:00	♃	27°49'34"	♈	-23°24'54"	00°00'00"	-00°02'53"	0.002
24/05/2048 00:00:00	♃	19°06'08"	♈	23°46'51"	o 00°47'52"	-02°33'39"	0.003
24/05/2048 00:00:00	♃	00°47'21"	♈	06°12'43"	-05°53'51"	00°00'34"	93.962
24/05/2048 00:00:00	♃	16°34'15"	♈	11°50'36"	-10°57'50"	00°00'50"	79.348
25/05/2048 00:00:00	♃	04°28'52"	♈	21°01'52"	-00°00'00"	00°57'37"	1.013
25/05/2048 00:00:00	♃	25°18'27"	♈	-14°07'04"	-04°39'22"	14°35'45"	0.002
25/05/2048 00:00:00	♃	08°24'25"	♈	20°36'57"	-01°05'55"	-00°31'45"	0.555

Ephemerides year 2048

25/05/2048 00:00:00	♀	03°26'56" ♀	20°28'34"	-00°22'08"	01°13'46"	1.734
25/05/2048 00:00:00	♂	16°43'45" ♂	-24°32'05"	o-01°46'20"	-00°17'00"	0.501
25/05/2048 00:00:00	♃	07°21'00" ♀	20°56'50"	-00°35'30"	00°14'02"	6.052
25/05/2048 00:00:00	♄	15°15'07" ♂	-21°58'35"	00°35'17"	-00°02'46"	9.250
25/05/2048 00:00:00	♅	07°04'39" ♃	09°37'44"	00°46'26"	00°00'35"	18.222
25/05/2048 00:00:00	♆	21°48'45" ♂	16°35'00"	-01°41'15"	00°02'12"	30.803
25/05/2048 00:00:00	♁	08°03'05" ♃	-20°01'32"	-12°24'58"	00°00'19"	41.110
25/05/2048 00:00:00	♆	27°46'31" ♂	-23°24'50"	00°00'00"	-00°03'07"	0.002
25/05/2048 00:00:00	♄	06°37'47" ♃	-12°28'55"	01°18'57"	-00°03'40"	7.885
25/05/2048 00:00:00	♁	12°38'32" ♀	23°44'54"	o 01°27'13"	00°06'39"	0.003
25/05/2048 00:00:00	T♆	27°46'31" ♂	-23°24'50"	00°00'00"	-00°03'07"	0.002
25/05/2048 00:00:00	T♁	16°31'33" ♀	23°46'20"	o 01°01'35"	-02°31'30"	0.003
25/05/2048 00:00:00	X	00°47'55" ♂	06°12'55"	-05°53'51"	00°00'33"	93.953
25/05/2048 00:00:00	Y	16°35'06" ♀	11°50'43"	-10°57'47"	00°00'50"	79.351
26/05/2048 00:00:00	☉	05°26'29" ♀	21°12'16"	-00°00'00"	00°57'36"	1.013
26/05/2048 00:00:00	☾	10°05'12" ♃	-18°31'16"	-03°53'05"	14°56'39"	0.002
26/05/2048 00:00:00	♁	07°51'57" ♀	20°14'33"	-01°23'25"	-00°33'05"	0.552
26/05/2048 00:00:00	♀	04°40'42" ♀	20°44'33"	-00°19'49"	01°13'46"	1.734
26/05/2048 00:00:00	♂	16°26'29" ♂	-24°33'49"	o-01°49'50"	-00°17'29"	0.498

Ephemerides year 2048

26/05/2048 00:00:00	♃	07°35'02" ♀	20°59'12"	-00°35'24"	00°14'03"	6.053
26/05/2048 00:00:00	♅	15°12'18" ♁	-21°58'56"	00°35'15"	-00°02'50"	9.239
26/05/2048 00:00:00	♆	07°05'16" ♃	09°37'28"	00°46'24"	00°00'38"	18.238
26/05/2048 00:00:00	♁	21°50'58" ♁	16°35'34"	-01°41'15"	00°02'12"	30.799
26/05/2048 00:00:00	♁	08°03'24" ♁	-20°01'44"	-12°25'19"	00°00'18"	41.094
26/05/2048 00:00:00	♁	27°43'29" ♁	-23°24'47"	00°00'00"	-00°02'50"	0.002
26/05/2048 00:00:00	♁	06°34'08" ♃	-12°27'28"	01°19'13"	-00°03'36"	7.893
26/05/2048 00:00:00	♁	12°45'11" ♀	23°44'55" ○	01°26'22"	00°06'39"	0.003
26/05/2048 00:00:00	♁	27°43'29" ♁	-23°24'47"	00°00'00"	-00°02'50"	0.002
26/05/2048 00:00:00	♁	14°09'00" ♀	23°43'08" ○	01°14'08"	-02°12'00"	0.003
26/05/2048 00:00:00	X	00°48'29" ♁	06°13'06"	-05°53'51"	00°00'33"	93.943
26/05/2048 00:00:00	Y	16°35'56" ♀	11°50'50"	-10°57'45"	00°00'51"	79.354
27/05/2048 00:00:00	♁	06°24'04" ♀	21°22'17"	-00°00'00"	00°57'34"	1.013
27/05/2048 00:00:00	♃	25°09'11" ♃	-21°47'43"	-02°49'54"	15°09'48"	0.002
27/05/2048 00:00:00	♁	07°18'26" ♀	19°52'08"	-01°40'39"	-00°33'50"	0.550
27/05/2048 00:00:00	♁	05°54'28" ♀	20°59'57"	-00°17'29"	01°13'45"	1.734
27/05/2048 00:00:00	♁	16°08'47" ♁	-24°35'27" ○	-01°53'19"	-00°17'55"	0.496
27/05/2048 00:00:00	♃	07°49'06" ♀	21°01'34"	-00°35'19"	00°14'03"	6.054
27/05/2048 00:00:00	♅	15°09'25" ♁	-21°59'18"	00°35'12"	-00°02'55"	9.228

Ephemerides year 2048

27/05/2048 00:00:00	♃	07°05'57" ♃	09°37'11"	00°46'21"	00°00'42"	18.255
27/05/2048 00:00:00	♃	21°53'10" ♃	16°36'07"	-01°41'16"	00°02'11"	30.796
27/05/2048 00:00:00	♃	08°03'41" ♃	-20°01'57"	-12°25'40"	00°00'16"	41.078
27/05/2048 00:00:00	♃	27°40'59" ♃	-23°24'45"	00°00'00"	-00°02'06"	0.002
27/05/2048 00:00:00	♃	06°30'34" ♃	-12°26'03"	01°19'29"	-00°03'31"	7.902
27/05/2048 00:00:00	♃	12°51'50" ♃	23°44'55" ♃	01°25'31"	00°06'39"	0.003
27/05/2048 00:00:00	♃	27°40'59" ♃	-23°24'45"	00°00'00"	-00°02'06"	0.002
27/05/2048 00:00:00	♃	12°07'48" ♃	23°38'25" ♃	01°24'46"	-01°51'36"	0.003
27/05/2048 00:00:00	X	00°49'03" ♃	06°13'17"	-05°53'51"	00°00'33"	93.933
27/05/2048 00:00:00	Y	16°36'48" ♃	11°50'56"	-10°57'43"	00°00'51"	79.357
28/05/2048 00:00:00	♃	07°21'39" ♃	21°31'57"	-00°00'00"	00°57'33"	1.013
28/05/2048 00:00:00	♃	10°21'38" ♃	-23°32'50" ♃	-01°34'04"	15°13'27"	0.002
28/05/2048 00:00:00	♃	06°44'28" ♃	19°29'57"	-01°57'28"	-00°33'59"	0.549
28/05/2048 00:00:00	♃	07°08'14" ♃	21°14'47"	-00°15'09"	01°13'45"	1.735
28/05/2048 00:00:00	♃	15°50'38" ♃	-24°36'59" ♃	-01°56'48"	-00°18'20"	0.493
28/05/2048 00:00:00	♃	08°03'09" ♃	21°03'54"	-00°35'14"	00°14'03"	6.055
28/05/2048 00:00:00	♃	15°06'28" ♃	-21°59'41"	00°35'10"	-00°02'59"	9.218
28/05/2048 00:00:00	♃	07°06'40" ♃	09°36'52"	00°46'19"	00°00'45"	18.272
28/05/2048 00:00:00	♃	21°55'22" ♃	16°36'40"	-01°41'17"	00°02'11"	30.791

Ephemerides year 2048

28/05/2048 00:00:00	♁	08°03'58" ♃	-20°02'10"	-12°26'01"	00°00'15"	41.062
28/05/2048 00:00:00	♁	27°39'21" ♃	-23°24'43"	00°00'00"	-00°01'07"	0.002
28/05/2048 00:00:00	♁	06°27'05" ♃	-12°24'39"	01°19'45"	-00°03'27"	7.911
28/05/2048 00:00:00	♁	12°58'29" ♃	23°44'55" ♁	01°24'40"	00°06'39"	0.003
28/05/2048 00:00:00	♁	27°39'21" ♃	-23°24'43"	00°00'00"	-00°01'07"	0.002
28/05/2048 00:00:00	♁	10°21'27" ♃	23°32'49" ♁	01°34'05"	-01°43'53"	0.003
28/05/2048 00:00:00	X	00°49'36" ♃	06°13'29"	-05°53'51"	00°00'33"	93.923
28/05/2048 00:00:00	Y	16°37'39" ♃	11°51'03"	-10°57'40"	00°00'51"	79.360
29/05/2048 00:00:00	♁	08°19'12" ♃	21°41'14"	-00°00'00"	00°57'32"	1.013
29/05/2048 00:00:00	♁	25°32'49" ♃	-23°33'04" ♁	-00°11'36"	15°07'19"	0.002
29/05/2048 00:00:00	♁	06°10'39" ♃	19°08'15"	-02°13'43"	-00°33'33"	0.549
29/05/2048 00:00:00	♁	08°22'00" ♃	21°29'02"	-00°12'48"	01°13'46"	1.735
29/05/2048 00:00:00	♁	15°32'06" ♃	-24°38'26" ♁	-02°00'16"	-00°18'43"	0.490
29/05/2048 00:00:00	♁	08°17'12" ♃	21°06'12"	-00°35'09"	00°14'02"	6.055
29/05/2048 00:00:00	♁	15°03'26" ♃	-22°00'04"	00°35'07"	-00°03'03"	9.208
29/05/2048 00:00:00	♁	07°07'27" ♃	09°36'32"	00°46'16"	00°00'48"	18.289
29/05/2048 00:00:00	♁	21°57'33" ♃	16°37'13"	-01°41'18"	00°02'11"	30.787
29/05/2048 00:00:00	♁	08°04'12" ♃	-20°02'23"	-12°26'22"	00°00'13"	41.046
29/05/2048 00:00:00	♁	27°38'44" ♃	-23°24'42"	00°00'00"	-00°00'07"	0.002



Ephemerides year 2048

29/05/2048 00:00:00	♄	06°23'39" ♎r	-12°23'17"	01°20'01"	-00°03'23"	7.921
29/05/2048 00:00:00	♁	13°05'09" ♏	23°44'55" ♍	01°23'49"	00°06'39"	0.003
29/05/2048 00:00:00	♅	27°38'44" ♏r	-23°24'42"	00°00'00"	-00°00'07"	0.002
29/05/2048 00:00:00	♁	08°34'14" ♏r	23°25'50"	01°43'31"	-01°53'09"	0.003
29/05/2048 00:00:00	X	00°50'09" ♏	06°13'40"	-05°53'51"	00°00'32"	93.913
29/05/2048 00:00:00	Y	16°38'30" ♏	11°51'10"	-10°57'38"	00°00'51"	79.362
30/05/2048 00:00:00	♁	09°16'44" ♏	21°50'09"	00°00'00"	00°57'31"	1.014
30/05/2048 00:00:00	♃	10°33'25" ♏	-21°50'10"	01°10'49"	14°52'36"	0.002
30/05/2048 00:00:00	♁	05°37'32" ♏r	18°47'16"	-02°29'15"	-00°32'33"	0.551
30/05/2048 00:00:00	♁	09°35'46" ♏	21°42'41"	-00°10'26"	01°13'45"	1.735
30/05/2048 00:00:00	♂	15°13'12" ♏r	-24°39'46" ♍	-02°03'43"	-00°19'04"	0.488
30/05/2048 00:00:00	♁	08°31'14" ♏	21°08'29"	-00°35'04"	00°14'02"	6.056
30/05/2048 00:00:00	♃	15°00'21" ♏	-22°00'27"	00°35'04"	-00°03'07"	9.198
30/05/2048 00:00:00	♁	07°08'17" ♏	09°36'11"	00°46'14"	00°00'51"	18.305
30/05/2048 00:00:00	♁	21°59'44" ♏	16°37'45"	-01°41'18"	00°02'10"	30.782
30/05/2048 00:00:00	♁	08°04'25" ♏	-20°02'37"	-12°26'42"	00°00'12"	41.030
30/05/2048 00:00:00	♅	27°39'02" ♏	-23°24'42"	00°00'00"	00°00'40"	0.002
30/05/2048 00:00:00	♄	06°20'18" ♎r	-12°21'57"	01°20'16"	-00°03'18"	7.930
30/05/2048 00:00:00	♁	13°11'48" ♏	23°44'55" ♍	01°22'58"	00°06'39"	0.003

Ephemerides year 2048

30/05/2048 00:00:00	T♄	27°39'02" ♄	-23°24'42"	00°00'00"	00°00'40"	0.002
30/05/2048 00:00:00	T♄	06°31'40" ♄r	23°16'10"	01°54'15"	-02°12'33"	0.003
30/05/2048 00:00:00	X	00°50'41" ♂	06°13'51"	-05°53'52"	00°00'32"	93.902
30/05/2048 00:00:00	Y	16°39'22" ♀	11°51'16"	-10°57'37"	00°00'51"	79.364
31/05/2048 00:00:00	♁	10°14'15" ♀	21°58'41"	00°00'00"	00°57'30"	1.014
31/05/2048 00:00:00	♂	25°15'55" ♄	-18°40'06"	02°26'57"	14°31'33"	0.002
31/05/2048 00:00:00	♀	05°05'43" ♄r	18°27'14"	-02°43'56"	-00°30'59"	0.553
31/05/2048 00:00:00	♀	10°49'31" ♀	21°55'44"	-00°08'04"	01°13'44"	1.735
31/05/2048 00:00:00	♂	14°53'59" ♄r	-24°41'01"	0°07'08"	-00°19'22"	0.486
31/05/2048 00:00:00	♃	08°45'17" ♀	21°10'46"	-00°34'59"	00°14'02"	6.056
31/05/2048 00:00:00	♃	14°57'10" ♄r	-22°00'51"	00°35'01"	-00°03'12"	9.188
31/05/2048 00:00:00	♃	07°09'10" ♃	09°35'49"	00°46'11"	00°00'54"	18.322
31/05/2048 00:00:00	♃	22°01'54" ♂	16°38'18"	-01°41'19"	00°02'09"	30.777
31/05/2048 00:00:00	♃	08°04'37" ♃	-20°02'52"	-12°27'03"	00°00'10"	41.014
31/05/2048 00:00:00	♁	27°39'59" ♄	-23°24'43"	00°00'00"	00°01'08"	0.002
31/05/2048 00:00:00	♃	06°17'02" ♃r	-12°20'38"	01°20'32"	-00°03'14"	7.940
31/05/2048 00:00:00	♃	13°18'27" ♀	23°44'54"	01°22'07"	00°06'39"	0.003
31/05/2048 00:00:00	T♄	27°39'59" ♄	-23°24'43"	00°00'00"	00°01'08"	0.002
31/05/2048 00:00:00	T♄	04°10'52" ♄r	23°02'45"	02°06'26"	-02°26'42"	0.003

Ephemerides year 2048

31/05/2048 00:00:00	X	00°51'13" ♃	06°14'01"	-05°53'52"	00°00'31"	93.891
31/05/2048 00:00:00	Y	16°40'14" ♃	11°51'23"	-10°57'35"	00°00'51"	79.366
01/06/2048 00:00:00	☉	11°11'46" ♃	22°06'50"	00°00'00"	00°57'29"	1.014
01/06/2048 00:00:00	☾	09°35'19" ♃	-14°26'27"	03°31'49"	14°06'52"	0.002
01/06/2048 00:00:00	♀	04°35'43" ♃r	18°08'23"	-02°57'40"	-00°28'55"	0.557
01/06/2048 00:00:00	♀	12°03'16" ♃	22°08'09"	-00°05'41"	01°13'44"	1.735
01/06/2048 00:00:00	♂	14°34'28" ♂r	-24°42'09"	o-02°10'33"	-00°19'38"	0.484
01/06/2048 00:00:00	♃	08°59'20" ♃	21°13'00"	-00°34'54"	00°14'02"	6.056
01/06/2048 00:00:00	♃	14°53'56" ♂r	-22°01'15"	00°34'58"	-00°03'16"	9.179
01/06/2048 00:00:00	♃	07°10'06" ♃	09°35'26"	00°46'09"	00°00'57"	18.339
01/06/2048 00:00:00	♃	22°04'04" ♃	16°38'50"	-01°41'20"	00°02'09"	30.772
01/06/2048 00:00:00	♃	08°04'47" ♃	-20°03'08"	-12°27'24"	00°00'09"	40.999
01/06/2048 00:00:00	♃	27°41'10" ♂r	-23°24'45"	00°00'00"	00°01'11"	0.002
01/06/2048 00:00:00	♃	06°13'50" ♃r	-12°19'21"	01°20'47"	-00°03'09"	7.950
01/06/2048 00:00:00	♃	13°25'06" ♃	23°44'53"	o 01°21'16"	00°06'39"	0.003
01/06/2048 00:00:00	T♃	27°41'10" ♂r	-23°24'45"	00°00'00"	00°01'11"	0.002
01/06/2048 00:00:00	T♃	01°45'27" ♃r	22°46'21"	02°18'47"	-02°19'37"	0.003
01/06/2048 00:00:00	X	00°51'45" ♃	06°14'12"	-05°53'52"	00°00'31"	93.880
01/06/2048 00:00:00	Y	16°41'05" ♃	11°51'29"	-10°57'33"	00°00'51"	79.367

Ephemerides year 2048

02/06/2048 00:00:00	♁	12°09'15" ♀	22°14'36"	00°00'00"	00°57'29"	1.014
02/06/2048 00:00:00	♃	23°29'18" ♁	-09°33'22"	04°22'10"	13°41'06"	0.003
02/06/2048 00:00:00	♃	04°08'02" ♀	17°50'55"	-03°10'21"	-00°26'21"	0.562
02/06/2048 00:00:00	♃	13°17'01" ♀	22°19'57"	-00°03'18"	01°13'44"	1.734
02/06/2048 00:00:00	♂	14°14'42" ♂	-24°43'10"	-02°13'55"	-00°19'52"	0.482
02/06/2048 00:00:00	♃	09°13'22" ♀	21°15'13"	-00°34'49"	00°14'01"	6.056
02/06/2048 00:00:00	♃	14°50'38" ♂	-22°01'40"	00°34'56"	-00°03'20"	9.170
02/06/2048 00:00:00	♃	07°11'06" ♃	09°35'02"	00°46'06"	00°01'00"	18.355
02/06/2048 00:00:00	♃	22°06'13" ♂	16°39'22"	-01°41'21"	00°02'08"	30.767
02/06/2048 00:00:00	♃	08°04'56" ♂	-20°03'24"	-12°27'45"	00°00'07"	40.983
02/06/2048 00:00:00	♃	27°42'14" ♂	-23°24'46"	00°00'00"	00°00'52"	0.002
02/06/2048 00:00:00	♃	06°10'42" ♃	-12°18'05"	01°21'02"	-00°03'05"	7.960
02/06/2048 00:00:00	♃	13°31'45" ♀	23°44'52"	01°20'24"	00°06'38"	0.003
02/06/2048 00:00:00	♃	27°42'14" ♂	-23°24'46"	00°00'00"	00°00'52"	0.002
02/06/2048 00:00:00	♃	29°41'01" ♂	22°30'17"	02°29'08"	-01°44'49"	0.003
02/06/2048 00:00:00	X	00°52'16" ♂	06°14'22"	-05°53'52"	00°00'30"	93.869
02/06/2048 00:00:00	Y	16°41'57" ♀	11°51'35"	-10°57'32"	00°00'51"	79.368
03/06/2048 00:00:00	♁	13°06'44" ♀	22°21'58"	00°00'00"	00°57'28"	1.014
03/06/2048 00:00:00	♃	06°57'52" ♂	-04°21'38"	04°56'20"	13°16'19"	0.003

Ephemerides year 2048

03/06/2048 00:00:00	♀	03°43'07" ♀r	17°34'59"	-03°21'54"	-00°23'23"	0.567
03/06/2048 00:00:00	♀	14°30'45" ♀	22°31'07"	-00°00'55"	01°13'44"	1.734
03/06/2048 00:00:00	♂	13°54'44" ♂r	-24°44'05" o	-02°17'15"	-00°20'03"	0.481
03/06/2048 00:00:00	♃	09°27'24" ♀	21°17'25"	-00°34'44"	00°14'01"	6.055
03/06/2048 00:00:00	♄	14°47'16" ♂r	-22°02'05"	00°34'53"	-00°03'24"	9.161
03/06/2048 00:00:00	♅	07°12'08" ♀	09°34'37"	00°46'04"	00°01'03"	18.372
03/06/2048 00:00:00	♆	22°08'21" ♂	16°39'54"	-01°41'22"	00°02'08"	30.761
03/06/2048 00:00:00	♇	08°05'03" ♀	-20°03'40"	-12°28'06"	00°00'06"	40.967
03/06/2048 00:00:00	♈	27°42'51" ♂r	-23°24'47"	00°00'00"	00°00'19"	0.002
03/06/2048 00:00:00	♉	06°07'40" ♀r	-12°16'51"	01°21'16"	-00°03'00"	7.971
03/06/2048 00:00:00	♊	13°38'24" ♀	23°44'50" o	01°19'33"	00°06'38"	0.003
03/06/2048 00:00:00	T♈	27°42'51" ♂r	-23°24'47"	00°00'00"	00°00'19"	0.002
03/06/2048 00:00:00	T♉	28°22'50" ♂r	22°19'14"	02°35'31"	-00°49'09"	0.003
03/06/2048 00:00:00	X	00°52'47" ♂	06°14'32"	-05°53'53"	00°00'30"	93.857
03/06/2048 00:00:00	Y	16°42'49" ♀	11°51'41"	-10°57'31"	00°00'51"	79.369
04/06/2048 00:00:00	☉	14°04'12" ♀	22°28'57"	00°00'00"	00°57'27"	1.014
04/06/2048 00:00:00	☾	20°02'44" ♀	00°52'20"	05°13'58"	12°53'54"	0.003
04/06/2048 00:00:00	♀	03°21'23" ♀r	17°20'46"	-03°32'16"	-00°20'02"	0.574
04/06/2048 00:00:00	♀	15°44'30" ♀	22°41'38"	00°01'27"	01°13'44"	1.734

Ephemerides year 2048

04/06/2048 00:00:00	♂	13°34'36" ♏r	-24°44'53" ♁	-02°20'33"	-00°20'11"	0.479
04/06/2048 00:00:00	♃	09°41'25" ♏	21°19'35"	-00°34'39"	00°14'01"	6.055
04/06/2048 00:00:00	♅	14°43'50" ♏r	-22°02'31"	00°34'50"	-00°03'27"	9.152
04/06/2048 00:00:00	♁	07°13'13" ♏	09°34'10"	00°46'01"	00°01'06"	18.389
04/06/2048 00:00:00	♃	22°10'29" ♏	16°40'25"	-01°41'23"	00°02'07"	30.755
04/06/2048 00:00:00	♁	08°05'09" ♏	-20°03'57"	-12°28'27"	00°00'04"	40.951
04/06/2048 00:00:00	♁	27°42'51" ♏r	-23°24'47"	00°00'00"	-00°00'18"	0.002
04/06/2048 00:00:00	♃	06°04'42" ♏r	-12°15'39"	01°21'31"	-00°02'55"	7.981
04/06/2048 00:00:00	♁	13°45'03" ♏	23°44'47" ♁	01°18'42"	00°06'38"	0.003
04/06/2048 00:00:00	T♁	27°42'51" ♏r	-23°24'47"	00°00'00"	-00°00'18"	0.002
04/06/2048 00:00:00	T♃	28°04'59" ♏	22°16'35"	02°36'57"	00°13'27"	0.003
04/06/2048 00:00:00	X	00°53'17" ♏	06°14'42"	-05°53'53"	00°00'30"	93.846
04/06/2048 00:00:00	Y	16°43'40" ♏	11°51'47"	-10°57'30"	00°00'51"	79.370
05/06/2048 00:00:00	♁	15°01'39" ♏	22°35'33"	00°00'00"	00°57'26"	1.015
05/06/2048 00:00:00	♃	02°46'44" ♏	05°55'45"	05°15'33"	12°34'39"	0.003
05/06/2048 00:00:00	♃	03°03'09" ♏r	17°08'23"	-03°41'24"	-00°16'22"	0.582
05/06/2048 00:00:00	♀	16°58'14" ♏	22°51'31"	00°03'50"	01°13'44"	1.734
05/06/2048 00:00:00	♂	13°14'21" ♏r	-24°45'35" ♁	-02°23'48"	-00°20'17"	0.478
05/06/2048 00:00:00	♃	09°55'26" ♏	21°21'43"	-00°34'34"	00°14'00"	6.054

Ephemerides year 2048

05/06/2048 00:00:00	♃	14°40'20"	♌	-22°02'57"	00°34'46"	-00°03'31"	9.144
05/06/2048 00:00:00	♃	07°14'22"	♌	09°33'42"	00°45'59"	00°01'09"	18.405
05/06/2048 00:00:00	♃	22°12'36"	♌	16°40'56"	-01°41'24"	00°02'06"	30.748
05/06/2048 00:00:00	♃	08°05'13"	♌	-20°04'15"	-12°28'48"	00°00'03"	40.935
05/06/2048 00:00:00	♃	27°42'15"	♌	-23°24'46"	00°00'00"	-00°00'53"	0.002
05/06/2048 00:00:00	♃	06°01'49"	♌	-12°14'29"	01°21'45"	-00°02'50"	7.992
05/06/2048 00:00:00	♃	13°51'42"	♌	23°44'45"	♌ 01°17'50"	00°06'38"	0.003
05/06/2048 00:00:00	♃	27°42'15"	♌	-23°24'46"	00°00'00"	-00°00'53"	0.002
05/06/2048 00:00:00	♃	28°47'52"	♌	22°22'49"	02°33'27"	01°10'38"	0.003
05/06/2048 00:00:00	X	00°53'47"	♌	06°14'52"	-05°53'54"	00°00'29"	93.834
05/06/2048 00:00:00	Y	16°44'32"	♌	11°51'53"	-10°57'29"	00°00'51"	79.370
06/06/2048 00:00:00	♃	15°59'06"	♌	22°41'44"	00°00'00"	00°57'26"	1.015
06/06/2048 00:00:00	♃	15°13'14"	♌	10°38'04"	05°02'10"	12°18'54"	0.003
06/06/2048 00:00:00	♃	02°48'42"	♌	16°57'55"	-03°49'17"	-00°12'27"	0.591
06/06/2048 00:00:00	♃	18°11'59"	♌	23°00'44"	00°06'13"	01°13'44"	1.733
06/06/2048 00:00:00	♃	12°54'02"	♌	-24°46'11"	♌ -02°27'01"	-00°20'20"	0.477
06/06/2048 00:00:00	♃	10°09'26"	♌	21°23'50"	-00°34'30"	00°14'00"	6.053
06/06/2048 00:00:00	♃	14°36'46"	♌	-22°03'23"	00°34'43"	-00°03'35"	9.135
06/06/2048 00:00:00	♃	07°15'33"	♌	09°33'13"	00°45'56"	00°01'13"	18.422

Ephemerides year 2048

06/06/2048 00:00:00	♁	22°14'42"	♄	16°41'27"	-01°41'25"	00°02'06"	30.742
06/06/2048 00:00:00	♁	08°05'15"	♃	-20°04'33"	-12°29'09"	00°00'01"	40.920
06/06/2048 00:00:00	♁	27°41'08"	♂r	-23°24'45"	00°00'00"	-00°01'16"	0.002
06/06/2048 00:00:00	♁	05°59'01"	♃r	-12°13'20"	01°21'59"	-00°02'45"	8.003
06/06/2048 00:00:00	♁	13°58'21"	♁	23°44'42"	♁ 01°16'59"	00°06'38"	0.003
06/06/2048 00:00:00	T♁	27°41'08"	♂r	-23°24'45"	00°00'00"	-00°01'16"	0.002
06/06/2048 00:00:00	T♁	00°22'03"	♁	22°35'46"	02°25'43"	01°55'21"	0.003
06/06/2048 00:00:00	X	00°54'16"	♄	06°15'01"	-05°53'54"	00°00'29"	93.822
06/06/2048 00:00:00	Y	16°45'24"	♁	11°51'58"	-10°57'28"	00°00'51"	79.370
07/06/2048 00:00:00	♁	16°56'32"	♁	22°47'32"	00°00'00"	00°57'25"	1.015
07/06/2048 00:00:00	♁	27°25'42"	♂	14°49'54"	04°35'15"	12°06'37"	0.003
07/06/2048 00:00:00	♁	02°38'18"	♁r	16°49'26"	-03°55'55"	-00°08'19"	0.600
07/06/2048 00:00:00	♁	19°25'43"	♁	23°09'17"	00°08'35"	01°13'44"	1.733
07/06/2048 00:00:00	♁	12°33'42"	♂r	-24°46'40"	♁ -02°30'10"	-00°20'19"	0.476
07/06/2048 00:00:00	♁	10°23'26"	♁	21°25'56"	-00°34'25"	00°13'59"	6.051
07/06/2048 00:00:00	♁	14°33'09"	♂r	-22°03'50"	00°34'40"	-00°03'38"	9.128
07/06/2048 00:00:00	♁	07°16'48"	♃	09°32'43"	00°45'54"	00°01'16"	18.438
07/06/2048 00:00:00	♁	22°16'48"	♄	16°41'58"	-01°41'27"	00°02'05"	30.735
07/06/2048 00:00:00	♁	08°05'17"	♃	-20°04'52"	-12°29'30"	00°00'00"	40.904



Ephemerides year 2048

07/06/2048 00:00:00	♏	27°39'45" ♀r	-23°24'43"	00°00'00"	-00°01'26"	0.002
07/06/2048 00:00:00	♋	05°56'19" ♀r	-12°12'14"	01°22'13"	-00°02'39"	8.015
07/06/2048 00:00:00	♌	14°05'00" ♀	23°44'38" ♀	01°16'08"	00°06'38"	0.003
07/06/2048 00:00:00	♏	27°39'45" ♀r	-23°24'43"	00°00'00"	-00°01'26"	0.002
07/06/2048 00:00:00	♌	02°33'38" ♀	22°52'06"	02°14'44"	02°25'21"	0.003
07/06/2048 00:00:00	X	00°54'45" ♀	06°15'11"	-05°53'55"	00°00'28"	93.810
07/06/2048 00:00:00	Y	16°46'16" ♀	11°52'04"	-10°57'27"	00°00'51"	79.370
08/06/2048 00:00:00	♁	17°53'57" ♀	22°52'56"	00°00'00"	00°57'25"	1.015
08/06/2048 00:00:00	♂	09°27'33" ♀	18°22'24"	03°56'30"	11°57'34"	0.003
08/06/2048 00:00:00	♌	02°32'07" ♀r	16°43'00"	-04°01'17"	-00°04'01"	0.611
08/06/2048 00:00:00	♀	20°39'28" ♀	23°17'10"	00°10'58"	01°13'44"	1.732
08/06/2048 00:00:00	♂	12°13'23" ♀r	-24°47'03" ♀	-02°33'16"	-00°20'16"	0.475
08/06/2048 00:00:00	♈	10°37'25" ♀	21°28'00"	-00°34'21"	00°13'58"	6.050
08/06/2048 00:00:00	♃	14°29'29" ♀r	-22°04'17"	00°34'37"	-00°03'41"	9.120
08/06/2048 00:00:00	♉	07°18'05" ♀r	09°32'12"	00°45'52"	00°01'19"	18.455
08/06/2048 00:00:00	♊	22°18'53" ♀	16°42'28"	-01°41'28"	00°02'04"	30.728
08/06/2048 00:00:00	♈	08°05'16" ♀r	-20°05'11"	-12°29'51"	-00°00'00"	40.888
08/06/2048 00:00:00	♏	27°38'19" ♀r	-23°24'42"	00°00'00"	-00°01'22"	0.002
08/06/2048 00:00:00	♋	05°53'42" ♀r	-12°11'09"	01°22'27"	-00°02'34"	8.026

Ephemerides year 2048

08/06/2048 00:00:00	☾	14°11'39" ♀	23°44'34" ♀	01°15'16" ♀	00°06'38" ♀	0.003
08/06/2048 00:00:00	♄	27°38'19" ♀	-23°24'42" ♀	00°00'00" ♀	-00°01'22" ♀	0.002
08/06/2048 00:00:00	♄	05°08'16" ♀	23°08'37" ♀	02°01'35" ♀	02°41'54" ♀	0.003
08/06/2048 00:00:00	X	00°55'14" ♀	06°15'20" ♀	-05°53'56" ♀	00°00'28" ♀	93.797
08/06/2048 00:00:00	Y	16°47'08" ♀	11°52'09" ♀	-10°57'27" ♀	00°00'51" ♀	79.370
09/06/2048 00:00:00	☉	18°51'22" ♀	22°57'55" ♀	00°00'00" ♀	00°57'24" ♀	1.015
09/06/2048 00:00:00	☾	21°21'51" ♀	21°07'03" ♀	03°07'51" ♀	11°51'29" ♀	0.003
09/06/2048 00:00:00	♁	02°30'17" ♀	16°38'36" ♀	-04°05'24" ♀	00°00'22" ♀	0.622
09/06/2048 00:00:00	♁	21°53'12" ♀	23°24'22" ♀	00°13'20" ♀	01°13'44" ♀	1.732
09/06/2048 00:00:00	♂	11°53'09" ♀	-24°47'20" ♀	-02°36'18" ♀	-00°20'10" ♀	0.474
09/06/2048 00:00:00	♂	10°51'23" ♀	21°30'02" ♀	-00°34'16" ♀	00°13'57" ♀	6.048
09/06/2048 00:00:00	♁	14°25'45" ♀	-22°04'44" ♀	00°34'33" ♀	-00°03'45" ♀	9.113
09/06/2048 00:00:00	♁	07°19'26" ♀	09°31'40" ♀	00°45'49" ♀	00°01'22" ♀	18.471
09/06/2048 00:00:00	♁	22°20'58" ♀	16°42'59" ♀	-01°41'29" ♀	00°02'03" ♀	30.721
09/06/2048 00:00:00	♁	08°05'15" ♀	-20°05'31" ♀	-12°30'12" ♀	-00°00'02" ♀	40.873
09/06/2048 00:00:00	♁	27°37'03" ♀	-23°24'40" ♀	00°00'00" ♀	-00°01'07" ♀	0.002
09/06/2048 00:00:00	♁	05°51'10" ♀	-12°10'06" ♀	01°22'41" ♀	-00°02'28" ♀	8.038
09/06/2048 00:00:00	☾	14°18'18" ♀	23°44'30" ♀	01°14'25" ♀	00°06'39" ♀	0.003
09/06/2048 00:00:00	♄	27°37'03" ♀	-23°24'40" ♀	00°00'00" ♀	-00°01'07" ♀	0.002

Ephemerides year 2048

09/06/2048 00:00:00	T♄	07°54'11" ♀	23°23'04"	01°47'14"	02°48'44"	0.003
09/06/2048 00:00:00	X	00°55'42" ♂	06°15'29"	-05°53'56"	00°00'27"	93.784
09/06/2048 00:00:00	Y	16°48'00" ♀	11°52'14"	-10°57'26"	00°00'51"	79.369
10/06/2048 00:00:00	☉	19°48'46" ♀	23°02'30"	00°00'00"	00°57'23"	1.015
10/06/2048 00:00:00	☾	03°11'25" ♀	22°56'16"	02°11'25"	11°48'02"	0.003
10/06/2048 00:00:00	♁	02°32'54" ♀	16°36'14"	-04°08'19"	00°04'51"	0.634
10/06/2048 00:00:00	♂	23°06'57" ♀	23°30'54" ○	00°15'41"	01°13'44"	1.731
10/06/2048 00:00:00	♂	11°33'02" ♂	-24°47'32" ○	-02°39'17"	-00°20'02"	0.474
10/06/2048 00:00:00	♂	11°05'21" ♀	21°32'03"	-00°34'12"	00°13'57"	6.047
10/06/2048 00:00:00	♃	14°21'59" ♂	-22°05'11"	00°34'30"	-00°03'48"	9.105
10/06/2048 00:00:00	♃	07°20'50" ♀	09°31'07"	00°45'47"	00°01'25"	18.487
10/06/2048 00:00:00	♃	22°23'01" ♂	16°43'29"	-01°41'31"	00°02'03"	30.713
10/06/2048 00:00:00	♃	08°05'12" ♂	-20°05'51"	-12°30'33"	-00°00'03"	40.857
10/06/2048 00:00:00	♃	27°36'06" ♂	-23°24'39"	00°00'00"	-00°00'45"	0.002
10/06/2048 00:00:00	♃	05°48'44" ♀	-12°09'05"	01°22'54"	-00°02'23"	8.050
10/06/2048 00:00:00	♃	14°24'57" ♀	23°44'26" ○	01°13'33"	00°06'39"	0.003
10/06/2048 00:00:00	T♃	27°36'06" ♂	-23°24'39"	00°00'00"	-00°00'45"	0.002
10/06/2048 00:00:00	T♄	10°44'22" ♀	23°34'19" ○	01°32'15"	02°51'27"	0.003
10/06/2048 00:00:00	X	00°56'10" ♂	06°15'37"	-05°53'57"	00°00'27"	93.771

Ephemerides year 2048

10/06/2048 00:00:00	Y	16°48'52" ♀	11°52'19"	-10°57'26"	00°00'51"	79.368
11/06/2048 00:00:00	☉	20°46'09" ♀	23°06'41"	00°00'00"	00°57'22"	1.015
11/06/2048 00:00:00	☾	14°58'45" ♀	23°44'16" ○	01°09'29"	11°47'00"	0.003
11/06/2048 00:00:00	♋	02°40'02" ♀	16°35'53"	-04°10'03"	00°09'23"	0.647
11/06/2048 00:00:00	♌	24°20'41" ♀	23°36'44" ○	00°18'02"	01°13'44"	1.730
11/06/2048 00:00:00	♍	11°13'06" ⚹r	-24°47'38" ○	-02°42'12"	-00°19'50"	0.474
11/06/2048 00:00:00	♎	11°19'17" ♀	21°34'03"	-00°34'08"	00°13'56"	6.045
11/06/2048 00:00:00	♏	14°18'09" ⚹r	-22°05'39"	00°34'26"	-00°03'51"	9.099
11/06/2048 00:00:00	♐	07°22'17" ♃r	09°30'32"	00°45'44"	00°01'28"	18.504
11/06/2048 00:00:00	♑	22°25'04" ⚹	16°43'58"	-01°41'32"	00°02'02"	30.706
11/06/2048 00:00:00	♒	08°05'07" ⚹r	-20°06'12"	-12°30'53"	-00°00'05"	40.842
11/06/2048 00:00:00	♓	27°35'32" ⚹r	-23°24'38"	00°00'00"	-00°00'21"	0.002
11/06/2048 00:00:00	♈	05°46'24" ♃r	-12°08'06"	01°23'07"	-00°02'17"	8.062
11/06/2048 00:00:00	♉	14°31'36" ♀	23°44'21" ○	01°12'42"	00°06'39"	0.003
11/06/2048 00:00:00	T♏	27°35'32" ⚹r	-23°24'38"	00°00'00"	-00°00'21"	0.002
11/06/2048 00:00:00	T♎	13°37'41" ♀	23°42'00" ○	01°16'47"	02°55'48"	0.003
11/06/2048 00:00:00	X	00°56'37" ⚹	06°15'46"	-05°53'58"	00°00'27"	93.758
11/06/2048 00:00:00	Y	16°49'44" ♀	11°52'24"	-10°57'26"	00°00'51"	79.367
12/06/2048 00:00:00	☉	21°43'32" ♀	23°10'28"	-00°00'00"	00°57'22"	1.015

Ephemerides year 2048

12/06/2048 00:00:00	♃	26°46'13" ♀	23°28'08" ○	00°04'33"	11°48'16"	0.003
12/06/2048 00:00:00	♆	02°51'41" ♀	16°37'31"	-04°10'39"	00°13'55"	0.660
12/06/2048 00:00:00	♀	25°34'25" ♀	23°41'52" ○	00°20'22"	01°13'44"	1.730
12/06/2048 00:00:00	♂	10°53'23" ♂	-24°47'38" ○	-02°45'03"	-00°19'35"	0.474
12/06/2048 00:00:00	♃	11°33'13" ♀	21°36'01"	-00°34'03"	00°13'55"	6.042
12/06/2048 00:00:00	♄	14°14'16" ♂	-22°06'08"	00°34'23"	-00°03'54"	9.092
12/06/2048 00:00:00	♃	07°23'46" ♀	09°29'56"	00°45'42"	00°01'31"	18.520
12/06/2048 00:00:00	♃	22°27'06" ♀	16°44'28"	-01°41'34"	00°02'01"	30.698
12/06/2048 00:00:00	♃	08°05'01" ♀	-20°06'33"	-12°31'14"	-00°00'06"	40.826
12/06/2048 00:00:00	♁	27°35'21" ♂	-23°24'38"	00°00'00"	-00°00'00"	0.002
12/06/2048 00:00:00	♃	05°44'09" ♀	-12°07'09"	01°23'20"	-00°02'12"	8.075
12/06/2048 00:00:00	♃	14°38'15" ♀	23°44'16" ○	01°11'50"	00°06'39"	0.003
12/06/2048 00:00:00	♁	27°35'21" ♂	-23°24'38"	00°00'00"	-00°00'00"	0.002
12/06/2048 00:00:00	♃	16°37'32" ♀	23°45'54" ○	01°00'33"	03°04'37"	0.003
12/06/2048 00:00:00	X	00°57'04" ♂	06°15'54"	-05°53'59"	00°00'26"	93.745
12/06/2048 00:00:00	Y	16°50'36" ♀	11°52'29"	-10°57'26"	00°00'51"	79.365
13/06/2048 00:00:00	♁	22°40'54" ♀	23°13'50"	-00°00'00"	00°57'21"	1.016
13/06/2048 00:00:00	♃	08°36'04" ♀	22°08'31"	-01°00'49"	11°51'50"	0.003
13/06/2048 00:00:00	♆	03°07'52" ♀	16°41'03"	-04°10'09"	00°18'26"	0.675

Ephemerides year 2048

13/06/2048 00:00:00	♀	26°48'09" ♀	23°46'19" ♀	00°22'41"	01°13'43"	1.729
13/06/2048 00:00:00	♂	10°33'56" ♂	-24°47'34" ♀	-02°47'49"	-00°19'18"	0.474
13/06/2048 00:00:00	♃	11°47'07" ♀	21°37'57"	-00°33'59"	00°13'53"	6.040
13/06/2048 00:00:00	♅	14°10'21" ♂	-22°06'36"	00°34'19"	-00°03'56"	9.086
13/06/2048 00:00:00	♁	07°25'19" ♀	09°29'20"	00°45'40"	00°01'34"	18.536
13/06/2048 00:00:00	♃	22°29'07" ♂	16°44'57"	-01°41'35"	00°02'00"	30.689
13/06/2048 00:00:00	♁	08°04'54" ♂	-20°06'55"	-12°31'35"	-00°00'08"	40.811
13/06/2048 00:00:00	♁	27°35'28" ♂	-23°24'38"	00°00'00"	00°00'13"	0.002
13/06/2048 00:00:00	♃	05°41'59" ♀	-12°06'14"	01°23'33"	-00°02'06"	8.088
13/06/2048 00:00:00	♁	14°44'54" ♀	23°44'10" ♀	01°10'58"	00°06'39"	0.003
13/06/2048 00:00:00	♁	27°35'28" ♂	-23°24'38"	00°00'00"	00°00'13"	0.002
13/06/2048 00:00:00	♁	19°47'44" ♀	23°45'30" ♀	00°43'12"	03°15'43"	0.003
13/06/2048 00:00:00	X	00°57'30" ♂	06°16'02"	-05°54'00"	00°00'26"	93.732
13/06/2048 00:00:00	Y	16°51'27" ♀	11°52'33"	-10°57'26"	00°00'51"	79.363
14/06/2048 00:00:00	♁	23°38'15" ♀	23°16'47"	-00°00'00"	00°57'20"	1.016
14/06/2048 00:00:00	♃	20°30'41" ♀	19°49'24"	-02°04'01"	11°57'49"	0.003
14/06/2048 00:00:00	♁	03°28'33" ♀	16°46'25"	-04°08'36"	00°22'55"	0.690
14/06/2048 00:00:00	♀	28°01'53" ♀	23°50'04" ♀	00°24'59"	01°13'43"	1.728
14/06/2048 00:00:00	♂	10°14'47" ♂	-24°47'26" ♀	-02°50'31"	-00°18'58"	0.474

Ephemerides year 2048

14/06/2048 00:00:00	♃	12°01'01" ♀	21°39'52"	-00°33'55"	00°13'52"	6.037
14/06/2048 00:00:00	♅	14°06'22" ♁	-22°07'05"	00°34'15"	-00°03'59"	9.080
14/06/2048 00:00:00	♆	07°26'55" ♃	09°28'42"	00°45'37"	00°01'37"	18.552
14/06/2048 00:00:00	♇	22°31'07" ♁	16°45'26"	-01°41'37"	00°01'59"	30.681
14/06/2048 00:00:00	♁	08°04'45" ♁	-20°07'18"	-12°31'55"	-00°00'09"	40.796
14/06/2048 00:00:00	♄	27°35'46" ♁	-23°24'39"	00°00'00"	00°00'20"	0.002
14/06/2048 00:00:00	♆	05°39'56" ♃	-12°05'21"	01°23'46"	-00°02'00"	8.100
14/06/2048 00:00:00	♁	14°51'33" ♀	23°44'04" ○	01°10'07"	00°06'38"	0.003
14/06/2048 00:00:00	♄	27°35'46" ♁	-23°24'39"	00°00'00"	00°00'20"	0.002
14/06/2048 00:00:00	♁	23°07'42" ♀	23°40'03" ○	00°24'49"	03°22'57"	0.003
14/06/2048 00:00:00	X	00°57'56" ♁	06°16'10"	-05°54'01"	00°00'25"	93.718
14/06/2048 00:00:00	Y	16°52'19" ♀	11°52'38"	-10°57'26"	00°00'51"	79.361
15/06/2048 00:00:00	♁	24°35'35" ♀	23°19'19"	-00°00'00"	00°57'19"	1.016
15/06/2048 00:00:00	♃	02°32'35" ♁	16°37'30"	-03°02'22"	12°06'26"	0.003
15/06/2048 00:00:00	♁	03°53'43" ♀	16°53'32"	-04°06'03"	00°27'22"	0.705
15/06/2048 00:00:00	♁	29°15'36" ♀	23°53'07" ○	00°27'17"	01°13'43"	1.727
15/06/2048 00:00:00	♁	09°56'00" ♁	-24°47'13" ○	-02°53'08"	-00°18'35"	0.474
15/06/2048 00:00:00	♃	12°14'53" ♀	21°41'45"	-00°33'51"	00°13'51"	6.034
15/06/2048 00:00:00	♅	14°02'21" ♁	-22°07'34"	00°34'11"	-00°04'02"	9.074

Ephemerides year 2048

15/06/2048 00:00:00	♃	07°28'33" ♃	09°28'03"	00°45'35"	00°01'39"	18.568
15/06/2048 00:00:00	♃	22°33'06" ♃	16°45'54"	-01°41'38"	00°01'58"	30.672
15/06/2048 00:00:00	♃	08°04'34" ♃	-20°07'40"	-12°32'16"	-00°00'11"	40.780
15/06/2048 00:00:00	♃	27°36'07" ♃	-23°24'39"	00°00'00"	00°00'19"	0.002
15/06/2048 00:00:00	♃	05°37'58" ♃	-12°04'31"	01°23'59"	-00°01'54"	8.113
15/06/2048 00:00:00	♃	14°58'12" ♃	23°43'58" ♃	01°09'15"	00°06'38"	0.003
15/06/2048 00:00:00	♃	27°36'07" ♃	-23°24'39"	00°00'00"	00°00'19"	0.002
15/06/2048 00:00:00	♃	26°30'03" ♃	23°29'18" ♃	00°06'07"	03°19'26"	0.003
15/06/2048 00:00:00	X	00°58'22" ♃	06°16'18"	-05°54'02"	00°00'25"	93.704
15/06/2048 00:00:00	Y	16°53'11" ♃	11°52'42"	-10°57'27"	00°00'51"	79.359
16/06/2048 00:00:00	♃	25°32'54" ♃	23°21'27"	-00°00'00"	00°57'18"	1.016
16/06/2048 00:00:00	♃	14°44'32" ♃	12°41'07"	-03°53'16"	12°17'57"	0.003
16/06/2048 00:00:00	♃	04°23'16" ♃	17°02'19"	-04°02'34"	00°31'45"	0.722
16/06/2048 00:00:00	♃	00°29'20" ♃	23°55'28" ♃	00°29'33"	01°13'43"	1.726
16/06/2048 00:00:00	♃	09°37'37" ♃	-24°46'57" ♃	-02°55'40"	-00°18'10"	0.475
16/06/2048 00:00:00	♃	12°28'43" ♃	21°43'37"	-00°33'47"	00°13'50"	6.031
16/06/2048 00:00:00	♃	13°58'18" ♃	-22°08'03"	00°34'07"	-00°04'04"	9.069
16/06/2048 00:00:00	♃	07°30'15" ♃	09°27'23"	00°45'33"	00°01'42"	18.584
16/06/2048 00:00:00	♃	22°35'04" ♃	16°46'22"	-01°41'40"	00°01'57"	30.663



Ephemerides year 2048

16/06/2048 00:00:00	♁	08°04'23" ♃	-20°08'04"	-12°32'36"	-00°00'12"	40.765
16/06/2048 00:00:00	♁	27°36'24" ♃	-23°24'39"	00°00'00"	00°00'14"	0.002
16/06/2048 00:00:00	♁	05°36'06" ♃	-12°03'42"	01°24'11"	-00°01'48"	8.127
16/06/2048 00:00:00	♁	15°04'51" ♃	23°43'51" ♁	01°08'23"	00°06'38"	0.003
16/06/2048 00:00:00	♁	27°36'24" ♃	-23°24'39"	00°00'00"	00°00'14"	0.002
16/06/2048 00:00:00	♁	29°41'22" ♃	23°14'21"	-00°11'35"	03°00'20"	0.003
16/06/2048 00:00:00	X	00°58'46" ♃	06°16'26"	-05°54'02"	00°00'24"	93.690
16/06/2048 00:00:00	Y	16°54'02" ♃	11°52'46"	-10°57'27"	00°00'51"	79.356
17/06/2048 00:00:00	♁	26°30'13" ♃	23°23'11"	-00°00'00"	00°57'18"	1.016
17/06/2048 00:00:00	♁	27°09'33" ♃	08°09'21"	-04°34'12"	12°32'36"	0.003
17/06/2048 00:00:00	♁	04°57'11" ♃	17°12'39"	-03°58'10"	00°36'03"	0.739
17/06/2048 00:00:00	♁	01°43'03" ♃	23°57'06" ♁	00°31'48"	01°13'42"	1.725
17/06/2048 00:00:00	♁	09°19'40" ♃	-24°46'38" ♁	-02°58'08"	-00°17'42"	0.476
17/06/2048 00:00:00	♁	12°42'33" ♃	21°45'27"	-00°33'43"	00°13'48"	6.028
17/06/2048 00:00:00	♁	13°54'12" ♃	-22°08'32"	00°34'03"	-00°04'06"	9.063
17/06/2048 00:00:00	♁	07°31'59" ♃	09°26'42"	00°45'30"	00°01'45"	18.600
17/06/2048 00:00:00	♁	22°37'01" ♃	16°46'50"	-01°41'42"	00°01'56"	30.654
17/06/2048 00:00:00	♁	08°04'09" ♃	-20°08'28"	-12°32'57"	-00°00'14"	40.750
17/06/2048 00:00:00	♁	27°36'35" ♃	-23°24'40"	00°00'00"	00°00'06"	0.002

Ephemerides year 2048

17/06/2048 00:00:00	♄	05°34'20" ♍	-12°02'55"	01°24'23"	-00°01'42"	8.140
17/06/2048 00:00:00	♁	15°11'29" ♋	23°43'44"	♁ 01°07'32"	00°06'38"	0.003
17/06/2048 00:00:00	♄♁	27°36'35" ♌	-23°24'40"	00°00'00"	00°00'06"	0.002
17/06/2048 00:00:00	♄♁	02°24'48" ♎	22°57'57"	-00°26'41"	02°23'31"	0.003
17/06/2048 00:00:00	X	00°59'11" ♉	06°16'33"	-05°54'04"	00°00'23"	93.676
17/06/2048 00:00:00	Y	16°54'54" ♋	11°52'50"	-10°57'28"	00°00'51"	79.353
18/06/2048 00:00:00	♁	27°27'31" ♋	23°24'29"	-00°00'00"	00°57'17"	1.016
18/06/2048 00:00:00	♃	09°50'49" ♌	03°11'49"	-05°02'46"	12°50'26"	0.003
18/06/2048 00:00:00	♁	05°35'23" ♋	17°24'27"	-03°52'56"	00°40'18"	0.756
18/06/2048 00:00:00	♁	02°56'46" ♎	23°58'01"	♁ 00°34'02"	01°13'42"	1.724
18/06/2048 00:00:00	♁	09°02'13" ♌	-24°46'16"	♁ -03°00'30"	-00°17'12"	0.477
18/06/2048 00:00:00	♁	12°56'21" ♋	21°47'16"	-00°33'39"	00°13'47"	6.025
18/06/2048 00:00:00	♁	13°50'04" ♌	-22°09'02"	00°33'59"	-00°04'09"	9.058
18/06/2048 00:00:00	♁	07°33'46" ♌	09°26'00"	00°45'28"	00°01'48"	18.616
18/06/2048 00:00:00	♁	22°38'57" ♉	16°47'18"	-01°41'43"	00°01'55"	30.645
18/06/2048 00:00:00	♁	08°03'54" ♌	-20°08'52"	-12°33'17"	-00°00'15"	40.735
18/06/2048 00:00:00	♁	27°36'38" ♌	-23°24'40"	00°00'00"	00°00'00"	0.002
18/06/2048 00:00:00	♄	05°32'41" ♍	-12°02'11"	01°24'36"	-00°01'36"	8.154
18/06/2048 00:00:00	♁	15°18'08" ♋	23°43'37"	♁ 01°06'40"	00°06'38"	0.003

Ephemerides year 2048

18/06/2048 00:00:00	T♄	27°36'38" ♄	-23°24'40"	00°00'00"	00°00'00"	0.002
18/06/2048 00:00:00	T♄	04°22'43" ♃	22°44'04"	-00°37'33"	01°29'44"	0.003
18/06/2048 00:00:00	X	00°59'34" ♄	06°16'40"	-05°54'05"	00°00'23"	93.662
18/06/2048 00:00:00	Y	16°55'45" ♀	11°52'54"	-10°57'29"	00°00'51"	79.350
19/06/2048 00:00:00	♁	28°24'48" ♀	23°25'23"	-00°00'00"	00°57'16"	1.016
19/06/2048 00:00:00	♃	22°51'26" ♃	-02°00'59"	-05°16'45"	13°11'15"	0.003
19/06/2048 00:00:00	♀	06°17'47" ♀	17°37'35"	-03°46'54"	00°44'29"	0.774
19/06/2048 00:00:00	♀	04°10'28" ♃	23°58'14"	♁ 00°36'15"	01°13'42"	1.723
19/06/2048 00:00:00	♂	08°45'16" ♄	-24°45'51"	♁ -03°02'48"	-00°16'40"	0.478
19/06/2048 00:00:00	♃	13°10'07" ♀	21°49'03"	-00°33'35"	00°13'45"	6.021
19/06/2048 00:00:00	♃	13°45'54" ♄	-22°09'32"	00°33'55"	-00°04'11"	9.054
19/06/2048 00:00:00	♃	07°35'36" ♃	09°25'17"	00°45'26"	00°01'51"	18.631
19/06/2048 00:00:00	♃	22°40'52" ♄	16°47'45"	-01°41'45"	00°01'54"	30.635
19/06/2048 00:00:00	♃	08°03'38" ♄	-20°09'17"	-12°33'37"	-00°00'16"	40.720
19/06/2048 00:00:00	♁	27°36'37" ♄	-23°24'40"	00°00'00"	-00°00'00"	0.002
19/06/2048 00:00:00	♃	05°31'07" ♃	-12°01'29"	01°24'47"	-00°01'30"	8.167
19/06/2048 00:00:00	♃	15°24'47" ♀	23°43'29"	♁ 01°05'48"	00°06'38"	0.003
19/06/2048 00:00:00	T♄	27°36'37" ♄	-23°24'40"	00°00'00"	-00°00'00"	0.002
19/06/2048 00:00:00	T♄	05°20'03" ♃	22°36'42"	-00°42'50"	00°23'29"	0.003

Ephemerides year 2048

19/06/2048 00:00:00	X	00°59'57" ♃	06°16'47"	-05°54'06"	00°00'22"	93.648
19/06/2048 00:00:00	Y	16°56'36" ♃	11°52'57"	-10°57'30"	00°00'51"	79.346
20/06/2048 00:00:00	☉	29°22'04" ♃	23°25'51"	-00°00'00"	00°57'15"	1.016
20/06/2048 00:00:00	☾	06°14'07" ♃	-07°16'59"	-05°14'16"	13°34'26"	0.003
20/06/2048 00:00:00	♀	07°04'20" ♃	17°51'57"	-03°40'07"	00°48'35"	0.793
20/06/2048 00:00:00	♀	05°24'11" ♃	23°57'45"	00°38'26"	01°13'42"	1.721
20/06/2048 00:00:00	♂	08°28'53" ♃	-24°45'25"	-03°05'00"	-00°16'06"	0.479
20/06/2048 00:00:00	♃	13°23'51" ♃	21°50'48"	-00°33'31"	00°13'43"	6.017
20/06/2048 00:00:00	♃	13°41'42" ♃	-22°10'01"	00°33'51"	-00°04'13"	9.050
20/06/2048 00:00:00	♃	07°37'28" ♃	09°24'33"	00°45'24"	00°01'53"	18.647
20/06/2048 00:00:00	♃	22°42'46" ♃	16°48'12"	-01°41'47"	00°01'53"	30.625
20/06/2048 00:00:00	♃	08°03'21" ♃	-20°09'42"	-12°33'57"	-00°00'18"	40.706
20/06/2048 00:00:00	♃	27°36'38" ♃	-23°24'40"	00°00'00"	00°00'02"	0.002
20/06/2048 00:00:00	♃	05°29'39" ♃	-12°00'48"	01°24'59"	-00°01'24"	8.181
20/06/2048 00:00:00	♃	15°31'26" ♃	23°43'21"	01°04'56"	00°06'38"	0.003
20/06/2048 00:00:00	T♃	27°36'38" ♃	-23°24'40"	00°00'00"	00°00'02"	0.002
20/06/2048 00:00:00	T♃	05°08'45" ♃	22°38'11"	-00°41'47"	-00°45'25"	0.003
20/06/2048 00:00:00	X	01°00'20" ♃	06°16'54"	-05°54'07"	00°00'22"	93.633
20/06/2048 00:00:00	Y	16°57'27" ♃	11°53'01"	-10°57'31"	00°00'50"	79.342

Ephemerides year 2048

21/06/2048 00:00:00	♁	00°19'19" ♃	23°25'55"	-00°00'00"	00°57'14"	1.016
21/06/2048 00:00:00	♃	20°00'43" ♄	-12°21'16"	-04°53'59"	13°58'49"	0.002
21/06/2048 00:00:00	♄	07°54'56" ♃	18°07'25"	-03°32'38"	00°52'37"	0.812
21/06/2048 00:00:00	♂	06°37'53" ♃	23°56'32"	♁ 00°40'35"	01°13'41"	1.720
21/06/2048 00:00:00	♂	08°13'05" ♃	-24°44'58"	♁ -03°07'07"	-00°15'29"	0.480
21/06/2048 00:00:00	♃	13°37'34" ♃	21°52'32"	-00°33'28"	00°13'42"	6.014
21/06/2048 00:00:00	♃	13°37'28" ♃	-22°10'31"	00°33'47"	-00°04'14"	9.046
21/06/2048 00:00:00	♃	07°39'23" ♃	09°23'48"	00°45'21"	00°01'56"	18.662
21/06/2048 00:00:00	♃	22°44'39" ♃	16°48'38"	-01°41'49"	00°01'52"	30.615
21/06/2048 00:00:00	♃	08°03'02" ♃	-20°10'08"	-12°34'17"	-00°00'19"	40.691
21/06/2048 00:00:00	♃	27°36'44" ♃	-23°24'40"	00°00'00"	00°00'10"	0.002
21/06/2048 00:00:00	♃	05°28'17" ♃	-12°00'10"	01°25'11"	-00°01'18"	8.195
21/06/2048 00:00:00	♃	15°38'05" ♃	23°43'13"	♁ 01°04'04"	00°06'38"	0.003
21/06/2048 00:00:00	♃	27°36'44" ♃	-23°24'40"	00°00'00"	00°00'10"	0.002
21/06/2048 00:00:00	♃	03°53'12" ♃	22°47'43"	-00°34'50"	-01°42'21"	0.003
21/06/2048 00:00:00	X	01°00'42" ♃	06°17'00"	-05°54'08"	00°00'21"	93.618
21/06/2048 00:00:00	Y	16°58'18" ♃	11°53'04"	-10°57'32"	00°00'50"	79.338
22/06/2048 00:00:00	♁	01°16'34" ♃	23°25'35"	-00°00'00"	00°57'14"	1.016
22/06/2048 00:00:00	♃	04°11'35" ♃	-16°55'03"	-04°15'29"	14°22'39"	0.002

Ephemerides year 2048

22/06/2048 00:00:00	♀	08°49'33" ♀	18°23'53"	-03°24'30"	00°56'35"	0.831
22/06/2048 00:00:00	♀	07°51'34" ♀	23°54'37"	00°42'43"	01°13'41"	1.719
22/06/2048 00:00:00	♂	07°57'53" ♂	-24°44'30"	-03°09'09"	-00°14'52"	0.481
22/06/2048 00:00:00	♃	13°51'16" ♀	21°54'14"	-00°33'24"	00°13'40"	6.009
22/06/2048 00:00:00	♃	13°33'12" ♂	-22°11'01"	00°33'43"	-00°04'16"	9.042
22/06/2048 00:00:00	♃	07°41'21" ♃	09°23'02"	00°45'19"	00°01'59"	18.678
22/06/2048 00:00:00	♃	22°46'31" ♂	16°49'05"	-01°41'51"	00°01'51"	30.605
22/06/2048 00:00:00	♃	08°02'41" ♂	-20°10'34"	-12°34'37"	-00°00'21"	40.676
22/06/2048 00:00:00	♃	27°36'59" ♂	-23°24'40"	00°00'00"	00°00'19"	0.002
22/06/2048 00:00:00	♃	05°27'02" ♃	-11°59'34"	01°25'23"	-00°01'12"	8.210
22/06/2048 00:00:00	♃	15°44'44" ♀	23°43'04"	01°03'12"	00°06'38"	0.003
22/06/2048 00:00:00	♃	27°36'59" ♂	-23°24'40"	00°00'00"	00°00'19"	0.002
22/06/2048 00:00:00	♃	01°52'42" ♀	23°01'28"	-00°23'41"	-02°13'37"	0.003
22/06/2048 00:00:00	X	01°01'04" ♂	06°17'06"	-05°54'09"	00°00'21"	93.603
22/06/2048 00:00:00	Y	16°59'09" ♀	11°53'07"	-10°57'33"	00°00'50"	79.334
23/06/2048 00:00:00	♃	02°13'48" ♀	23°24'49"	-00°00'00"	00°57'13"	1.016
23/06/2048 00:00:00	♃	18°45'07" ♃	-20°35'46"	-03°19'47"	14°43'42"	0.002
23/06/2048 00:00:00	♀	09°48'06" ♀	18°41'11"	-03°15'45"	01°00'29"	0.851
23/06/2048 00:00:00	♀	09°05'16" ♀	23°52'00"	00°44'49"	01°13'41"	1.717

Ephemerides year 2048

23/06/2048 00:00:00	♂	07°43'21" ♏r	-24°44'01" ♁	-03°11'06"	-00°14'12"	0.483
23/06/2048 00:00:00	♃	14°04'55" ♁	21°55'55"	-00°33'20"	00°13'38"	6.005
23/06/2048 00:00:00	♃	13°28'55" ♏r	-22°11'31"	00°33'38"	-00°04'17"	9.038
23/06/2048 00:00:00	♃	07°43'22" ♏r	09°22'15"	00°45'17"	00°02'02"	18.693
23/06/2048 00:00:00	♃	22°48'21" ♏r	16°49'30"	-01°41'53"	00°01'50"	30.594
23/06/2048 00:00:00	♁	08°02'20" ♏r	-20°11'00"	-12°34'57"	-00°00'22"	40.662
23/06/2048 00:00:00	♁	27°37'22" ♏r	-23°24'40"	00°00'00"	00°00'24"	0.002
23/06/2048 00:00:00	♃	05°25'53" ♏r	-11°59'01"	01°25'34"	-00°01'06"	8.224
23/06/2048 00:00:00	♁	15°51'23" ♁	23°42'55" ♁	01°02'20"	00°06'38"	0.003
23/06/2048 00:00:00	♁	27°37'22" ♏r	-23°24'40"	00°00'00"	00°00'24"	0.002
23/06/2048 00:00:00	♁	29°35'43" ♏r	23°14'57"	-00°10'58"	-02°16'04"	0.003
23/06/2048 00:00:00	X	01°01'25" ♏r	06°17'12"	-05°54'10"	00°00'20"	93.588
23/06/2048 00:00:00	Y	16°59'59" ♁	11°53'10"	-10°57'35"	00°00'50"	79.330
24/06/2048 00:00:00	♁	03°11'01" ♁	23°23'39"	-00°00'00"	00°57'13"	1.016
24/06/2048 00:00:00	♁	03°37'16" ♏r	-22°59'28"	-02°09'35"	14°59'29"	0.002
24/06/2048 00:00:00	♁	10°50'31" ♁	18°59'13"	-03°06'27"	01°04'20"	0.872
24/06/2048 00:00:00	♁	10°18'57" ♁	23°48'40" ♁	00°46'53"	01°13'41"	1.716
24/06/2048 00:00:00	♂	07°29'29" ♏r	-24°43'33" ♁	-03°12'58"	-00°13'31"	0.485
24/06/2048 00:00:00	♃	14°18'33" ♁	21°57'34"	-00°33'17"	00°13'36"	6.000

Ephemerides year 2048

24/06/2048 00:00:00	♃	13°24'37" ♄	-22°12'01"	00°33'34"	-00°04'19"	9.035
24/06/2048 00:00:00	♅	07°45'26" ♃	09°21'27"	00°45'15"	00°02'04"	18.708
24/06/2048 00:00:00	♆	22°50'11" ♄	16°49'56"	-01°41'55"	00°01'49"	30.583
24/06/2048 00:00:00	♁	08°01'57" ♃	-20°11'27"	-12°35'16"	-00°00'23"	40.648
24/06/2048 00:00:00	♄	27°37'47" ♃	-23°24'41"	00°00'00"	00°00'22"	0.002
24/06/2048 00:00:00	♅	05°24'50" ♃	-11°58'29"	01°25'45"	-00°00'59"	8.239
24/06/2048 00:00:00	♁	15°58'02" ♃	23°42'45" ○	01°01'28"	00°06'39"	0.003
24/06/2048 00:00:00	♄	27°37'47" ♃	-23°24'41"	00°00'00"	00°00'22"	0.002
24/06/2048 00:00:00	♁	27°26'34" ♃	23°25'31"	00°01'02"	-02°00'43"	0.003
24/06/2048 00:00:00	X	01°01'46" ♄	06°17'18"	-05°54'12"	00°00'20"	93.573
24/06/2048 00:00:00	Y	17°00'50" ♃	11°53'13"	-10°57'37"	00°00'50"	79.325
25/06/2048 00:00:00	♁	04°08'14" ♃	23°22'04"	-00°00'00"	00°57'12"	1.016
25/06/2048 00:00:00	♃	18°41'36" ♃	-23°46'25" ○	-00°49'30"	15°07'47"	0.002
25/06/2048 00:00:00	♁	11°56'46" ♃	19°17'51"	-02°56'37"	01°08'08"	0.892
25/06/2048 00:00:00	♁	11°32'39" ♃	23°44'37" ○	00°48'56"	01°13'41"	1.714
25/06/2048 00:00:00	♃	07°16'18" ♃	-24°43'05" ○	-03°14'45"	-00°12'49"	0.487
25/06/2048 00:00:00	♁	14°32'09" ♃	21°59'11"	-00°33'13"	00°13'34"	5.996
25/06/2048 00:00:00	♃	13°20'17" ♄	-22°12'32"	00°33'30"	-00°04'20"	9.032
25/06/2048 00:00:00	♅	07°47'32" ♃	09°20'38"	00°45'13"	00°02'07"	18.723



Ephemerides year 2048

25/06/2048 00:00:00	♁	22°52'00"	♄	16°50'21"	-01°41'57"	00°01'47"	30.572
25/06/2048 00:00:00	♁	08°01'32"	♃	-20°11'54"	-12°35'36"	-00°00'24"	40.633
25/06/2048 00:00:00	♁	27°38'05"	♂	-23°24'41"	00°00'00"	00°00'11"	0.002
25/06/2048 00:00:00	♁	05°23'53"	♃	-11°58'00"	01°25'56"	-00°00'53"	8.253
25/06/2048 00:00:00	♁	16°04'41"	♁	23°42'35"	♁ 01°00'36"	00°06'39"	0.003
25/06/2048 00:00:00	T♁	27°38'05"	♂	-23°24'41"	00°00'00"	00°00'11"	0.002
25/06/2048 00:00:00	T♁	25°34'14"	♁	23°32'58"	♁ 00°11'28"	-01°45'21"	0.003
25/06/2048 00:00:00	X	01°02'06"	♄	06°17'24"	-05°54'13"	00°00'19"	93.558
25/06/2048 00:00:00	Y	17°01'40"	♁	11°53'16"	-10°57'38"	00°00'50"	79.320
26/06/2048 00:00:00	♁	05°05'27"	♁	23°20'05"	00°00'00"	00°57'12"	1.016
26/06/2048 00:00:00	♁	03°49'53"	♂	-22°48'16"	00°34'22"	15°07'12"	0.002
26/06/2048 00:00:00	♁	13°06'46"	♁	19°36'55"	-02°46'18"	01°11'52"	0.913
26/06/2048 00:00:00	♁	12°46'20"	♁	23°39'53"	♁ 00°50'56"	01°13'41"	1.713
26/06/2048 00:00:00	♁	07°03'49"	♂	-24°42'38"	♁ -03°16'26"	-00°12'06"	0.489
26/06/2048 00:00:00	♁	14°45'43"	♁	22°00'47"	-00°33'10"	00°13'32"	5.991
26/06/2048 00:00:00	♁	13°15'56"	♂	-22°13'02"	00°33'25"	-00°04'21"	9.030
26/06/2048 00:00:00	♁	07°49'41"	♁	09°19'48"	00°45'11"	00°02'10"	18.738
26/06/2048 00:00:00	♁	22°53'47"	♄	16°50'46"	-01°41'59"	00°01'46"	30.561
26/06/2048 00:00:00	♁	08°01'07"	♃	-20°12'22"	-12°35'55"	-00°00'26"	40.619

Ephemerides year 2048

26/06/2048 00:00:00	♏	27°38'07" <del>♈</del> r	-23°24'41"	00°00'00"	-00°00'08"	0.002
26/06/2048 00:00:00	♋	05°23'03" <del>♈</del> r	-11°57'33"	01°26'08"	-00°00'47"	8.268
26/06/2048 00:00:00	♋	16°11'20" ♀	23°42'25" ♀	00°59'44"	00°06'39"	0.003
26/06/2048 00:00:00	♏	27°38'07" <del>♈</del> r	-23°24'41"	00°00'00"	-00°00'08"	0.002
26/06/2048 00:00:00	♋	23°51'12" ♀r	23°38'22" ♀	00°21'00"	-01°43'36"	0.003
26/06/2048 00:00:00	X	01°02'25" ♀	06°17'29"	-05°54'14"	00°00'19"	93.543
26/06/2048 00:00:00	Y	17°02'30" ♀	11°53'18"	-10°57'40"	00°00'49"	79.314
27/06/2048 00:00:00	♏	06°02'39" ♀	23°17'41"	00°00'00"	00°57'12"	1.017
27/06/2048 00:00:00	♏	18°53'00" ♀	-20°11'55"	01°55'20"	14°57'34"	0.002
27/06/2048 00:00:00	♋	14°20'30" ♀	19°56'18"	-02°35'34"	01°15'34"	0.935
27/06/2048 00:00:00	♋	14°00'01" ♀	23°34'26" ♀	00°52'54"	01°13'40"	1.711
27/06/2048 00:00:00	♋	06°52'04" <del>♈</del> r	-24°42'13" ♀	-03°18'03"	-00°11'22"	0.491
27/06/2048 00:00:00	♋	14°59'15" ♀	22°02'21"	-00°33'06"	00°13'30"	5.986
27/06/2048 00:00:00	♋	13°11'34" <del>♈</del> r	-22°13'32"	00°33'20"	-00°04'22"	9.028
27/06/2048 00:00:00	♋	07°51'52" <del>♈</del> r	09°18'57"	00°45'09"	00°02'12"	18.753
27/06/2048 00:00:00	♋	22°55'33" ♀	16°51'10"	-01°42'01"	00°01'45"	30.550
27/06/2048 00:00:00	♋	08°00'40" ♀r	-20°12'50"	-12°36'14"	-00°00'27"	40.605
27/06/2048 00:00:00	♏	27°37'45" <del>♈</del> r	-23°24'41"	00°00'00"	-00°00'34"	0.002
27/06/2048 00:00:00	♋	05°22'19" <del>♈</del> r	-11°57'08"	01°26'18"	-00°00'40"	8.283

Ephemerides year 2048

27/06/2048 00:00:00	☾	16°17'59" ♀	23°42'14" ♀	00°58'52"	00°06'38"	0.003
27/06/2048 00:00:00	♄	27°37'45" ♂	-23°24'41"	00°00'00"	-00°00'34"	0.002
27/06/2048 00:00:00	♄	22°01'13" ♀	23°42'36" ♀	00°31'06"	-01°58'53"	0.003
27/06/2048 00:00:00	X	01°02'44" ♂	06°17'34"	-05°54'16"	00°00'18"	93.527
27/06/2048 00:00:00	Y	17°03'20" ♀	11°53'21"	-10°57'42"	00°00'49"	79.309
28/06/2048 00:00:00	☉	06°59'51" ♀	23°14'52"	00°00'00"	00°57'11"	1.017
28/06/2048 00:00:00	♃	03°42'21" ♂	-16°16'59"	03°07'13"	14°39'59"	0.002
28/06/2048 00:00:00	♁	15°37'55" ♀	20°15'51"	-02°24'27"	01°19'14"	0.956
28/06/2048 00:00:00	♀	15°13'42" ♀	23°28'18" ♀	00°54'50"	01°13'40"	1.710
28/06/2048 00:00:00	♂	06°41'04" ♂	-24°41'49" ♀	-03°19'35"	-00°10'37"	0.493
28/06/2048 00:00:00	♃	15°12'44" ♀	22°03'54"	-00°33'03"	00°13'28"	5.980
28/06/2048 00:00:00	♅	13°07'12" ♂	-22°14'03"	00°33'16"	-00°04'23"	9.026
28/06/2048 00:00:00	♁	07°54'06" ♀	09°18'05"	00°45'06"	00°02'15"	18.767
28/06/2048 00:00:00	♁	22°57'18" ♂	16°51'35"	-01°42'04"	00°01'44"	30.538
28/06/2048 00:00:00	♃	08°00'11" ♂	-20°13'18"	-12°36'34"	-00°00'29"	40.592
28/06/2048 00:00:00	♄	27°36'59" ♂	-23°24'40"	00°00'00"	-00°00'57"	0.002
28/06/2048 00:00:00	♁	05°21'41" ♀	-11°56'45"	01°26'29"	-00°00'34"	8.298
28/06/2048 00:00:00	☾	16°24'38" ♀	23°42'03" ♀	00°58'00"	00°06'38"	0.003
28/06/2048 00:00:00	♄	27°36'59" ♂	-23°24'40"	00°00'00"	-00°00'57"	0.002

Ephemerides year 2048

28/06/2048 00:00:00	T♄	19°50'10" ♀	23°45'33" ○	00°43'04"	-02°23'39"	0.003
28/06/2048 00:00:00	X	01°03'03" ♂	06°17'39"	-05°54'17"	00°00'18"	93.512
28/06/2048 00:00:00	Y	17°04'09" ♀	11°53'23"	-10°57'44"	00°00'49"	79.303
29/06/2048 00:00:00	☉	07°57'03" ♀	23°11'39"	00°00'00"	00°57'11"	1.017
29/06/2048 00:00:00	☾	18°11'01" ♀	-11°28'53"	04°05'18"	14°16'36"	0.002
29/06/2048 00:00:00	♁	16°58'58" ♀	20°35'23"	-02°12'59"	01°22'50"	0.978
29/06/2048 00:00:00	♂	16°27'23" ♀	23°21'28"	00°56'44"	01°13'40"	1.708
29/06/2048 00:00:00	♂	06°30'49" ♂	-24°41'28" ○	-03°21'02"	-00°09'51"	0.495
29/06/2048 00:00:00	♃	15°26'12" ♀	22°05'25"	-00°32'59"	00°13'26"	5.975
29/06/2048 00:00:00	♄	13°02'48" ♂	-22°14'33"	00°33'11"	-00°04'24"	9.024
29/06/2048 00:00:00	♅	07°56'23" ♀	09°17'12"	00°45'04"	00°02'17"	18.782
29/06/2048 00:00:00	♆	22°59'02" ♂	16°51'58"	-01°42'06"	00°01'42"	30.527
29/06/2048 00:00:00	♇	07°59'42" ♂	-20°13'47"	-12°36'53"	-00°00'30"	40.578
29/06/2048 00:00:00	♈	27°35'52" ♂	-23°24'39"	00°00'00"	-00°01'13"	0.002
29/06/2048 00:00:00	♉	05°21'10" ♀	-11°56'25"	01°26'40"	-00°00'28"	8.314
29/06/2048 00:00:00	♊	16°31'16" ♀	23°41'52" ○	00°57'08"	00°06'38"	0.003
29/06/2048 00:00:00	T♈	27°35'52" ♂	-23°24'39"	00°00'00"	-00°01'13"	0.002
29/06/2048 00:00:00	T♄	17°15'48" ♀	23°46'10" ○	00°57'03"	-02°42'42"	0.003
29/06/2048 00:00:00	X	01°03'21" ♂	06°17'44"	-05°54'18"	00°00'17"	93.496

Ephemerides year 2048

29/06/2048 00:00:00	Y	17°04'59" ♀	11°53'25"	-10°57'47"	00°00'49"	79.296
30/06/2048 00:00:00	☉	08°54'14" ♄	23°08'02"	00°00'00"	00°57'11"	1.017
30/06/2048 00:00:00	☾	02°14'30" ♃	-06°12'26"	04°46'43"	13°50'04"	0.003
30/06/2048 00:00:00	♀	18°23'36" ♀	20°54'46"	-02°01'13"	01°26'25"	1.000
30/06/2048 00:00:00	♀	17°41'04" ♄	23°13'57"	00°58'36"	01°13'40"	1.706
30/06/2048 00:00:00	♂	06°21'21" ♃	-24°41'10"	o-03°22'24"	-00°09'05"	0.498
30/06/2048 00:00:00	♃	15°39'37" ♀	22°06'55"	-00°32'56"	00°13'24"	5.969
30/06/2048 00:00:00	♃	12°58'23" ♃	-22°15'04"	00°33'06"	-00°04'24"	9.022
30/06/2048 00:00:00	♃	07°58'41" ♃	09°16'18"	00°45'02"	00°02'20"	18.796
30/06/2048 00:00:00	♃	23°00'44" ♃	16°52'22"	-01°42'08"	00°01'41"	30.515
30/06/2048 00:00:00	♃	07°59'10" ♃	-20°14'17"	-12°37'11"	-00°00'31"	40.564
30/06/2048 00:00:00	♃	27°34'36" ♃	-23°24'37"	00°00'00"	-00°01'16"	0.002
30/06/2048 00:00:00	♃	05°20'45" ♃	-11°56'07"	01°26'50"	-00°00'22"	8.329
30/06/2048 00:00:00	♃	16°37'55" ♀	23°41'40"	o 00°56'16"	00°06'38"	0.003
30/06/2048 00:00:00	T♃	27°34'36" ♃	-23°24'37"	00°00'00"	-00°01'16"	0.002
30/06/2048 00:00:00	T♃	14°31'45" ♀	23°43'27"	o 01°11'46"	-02°41'04"	0.003
30/06/2048 00:00:00	X	01°03'38" ♃	06°17'49"	-05°54'20"	00°00'16"	93.480
30/06/2048 00:00:00	Y	17°05'47" ♀	11°53'27"	-10°57'49"	00°00'48"	79.290
01/07/2048 00:00:00	☉	09°51'26" ♄	23°04'00"	00°00'00"	00°57'11"	1.017

Ephemerides year 2048

01/07/2048 00:00:00	♃	15°50'58"	♈	-00°48'21"	♁	05°10'28"	♈	13°22'57"	0.003
01/07/2048 00:00:00	♆	19°51'47"	♈	21°13'49"	♁	-01°49'13"	♈	01°29'56"	1.022
01/07/2048 00:00:00	♀	18°54'44"	♁	23°05'44"	♁	01°00'25"	♈	01°13'40"	1.704
01/07/2048 00:00:00	♂	06°12'39"	♈	-24°40'54"	♁	-03°23'41"	♈	-00°08'17"	0.500
01/07/2048 00:00:00	♃	15°53'00"	♈	22°08'23"	♁	-00°32'53"	♈	00°13'21"	5.964
01/07/2048 00:00:00	♃	12°53'58"	♈	-22°15'34"	♁	00°33'01"	♈	-00°04'25"	9.021
01/07/2048 00:00:00	♃	08°01'03"	♈	09°15'24"	♁	00°45'00"	♈	00°02'22"	18.810
01/07/2048 00:00:00	♃	23°02'25"	♈	16°52'45"	♁	-01°42'10"	♈	00°01'40"	30.503
01/07/2048 00:00:00	♃	07°58'38"	♈	-20°14'46"	♁	-12°37'30"	♈	-00°00'33"	40.551
01/07/2048 00:00:00	♁	27°33'25"	♈	-23°24'36"	♁	00°00'00"	♈	-00°01'03"	0.002
01/07/2048 00:00:00	♃	05°20'26"	♈	-11°55'51"	♁	01°27'01"	♈	-00°00'15"	8.344
01/07/2048 00:00:00	♆	16°44'34"	♈	23°41'28"	♁	00°55'24"	♈	00°06'38"	0.003
01/07/2048 00:00:00	♁	27°33'25"	♈	-23°24'36"	♁	00°00'00"	♈	-00°01'03"	0.002
01/07/2048 00:00:00	♃	12°02'30"	♈	23°37'58"	♁	01°25'01"	♈	-02°13'21"	0.003
01/07/2048 00:00:00	X	01°03'54"	♈	06°17'53"	♁	-05°54'21"	♈	00°00'16"	93.464
01/07/2048 00:00:00	Y	17°06'36"	♈	11°53'29"	♁	-10°57'52"	♈	00°00'48"	79.283
02/07/2048 00:00:00	♁	10°48'38"	♁	22°59'34"	♁	00°00'00"	♈	00°57'12"	1.017
02/07/2048 00:00:00	♃	29°00'58"	♈	04°27'16"	♁	05°16'55"	♈	12°57'26"	0.003
02/07/2048 00:00:00	♆	21°23'28"	♈	21°32'22"	♁	-01°37'01"	♈	01°33'25"	1.044

Ephemerides year 2048

02/07/2048 00:00:00	♀	20°08'25" ♃	22°56'51"	01°02'11"	01°13'40"	1.702
02/07/2048 00:00:00	♂	06°04'46" ♁r	-24°40'42" ♁	-03°24'54"	-00°07'29"	0.503
02/07/2048 00:00:00	♃	16°06'21" ♃	22°09'49"	-00°32'50"	00°13'19"	5.958
02/07/2048 00:00:00	♄	12°49'32" ♁r	-22°16'04"	00°32'56"	-00°04'25"	9.021
02/07/2048 00:00:00	♅	08°03'26" ♃	09°14'28"	00°44'58"	00°02'24"	18.824
02/07/2048 00:00:00	♆	23°04'04" ♁	16°53'07"	-01°42'13"	00°01'38"	30.490
02/07/2048 00:00:00	♇	07°58'04" ♁r	-20°15'16"	-12°37'49"	-00°00'34"	40.538
02/07/2048 00:00:00	♈	27°32'34" ♁r	-23°24'35"	00°00'00"	-00°00'36"	0.002
02/07/2048 00:00:00	♉	05°20'13" ♃r	-11°55'37"	01°27'11"	-00°00'09"	8.360
02/07/2048 00:00:00	♊	16°51'13" ♃	23°41'16" ♁	00°54'31"	00°06'38"	0.003
02/07/2048 00:00:00	♋	27°32'34" ♁r	-23°24'35"	00°00'00"	-00°00'36"	0.002
02/07/2048 00:00:00	♌	10°11'29" ♃r	23°32'03" ♁	01°34'47"	-01°26'30"	0.003
02/07/2048 00:00:00	♍	01°04'10" ♁	06°17'57"	-05°54'23"	00°00'15"	93.448
02/07/2048 00:00:00	♎	17°07'24" ♃	11°53'31"	-10°57'55"	00°00'48"	79.276
03/07/2048 00:00:00	♏	11°45'50" ♃	22°54'44"	00°00'00"	00°57'12"	1.017
03/07/2048 00:00:00	♐	11°46'54" ♁	09°22'08"	05°07'20"	12°35'02"	0.003
03/07/2048 00:00:00	♑	22°58'36" ♃	21°50'14"	-01°24'40"	01°36'50"	1.066
03/07/2048 00:00:00	♀	21°22'06" ♃	22°47'18"	01°03'55"	01°13'40"	1.700
03/07/2048 00:00:00	♂	05°57'41" ♁r	-24°40'34" ♁	-03°26'02"	-00°06'40"	0.506

Ephemerides year 2048

03/07/2048 00:00:00	♃	16°19'39" ♀	22°11'14"	-00°32'46"	00°13'17"	5.951
03/07/2048 00:00:00	♅	12°45'06" ♂	-22°16'35"	00°32'51"	-00°04'26"	9.020
03/07/2048 00:00:00	♁	08°05'53" ♀	09°13'32"	00°44'56"	00°02'27"	18.838
03/07/2048 00:00:00	♆	23°05'42" ♂	16°53'29"	-01°42'15"	00°01'37"	30.478
03/07/2048 00:00:00	♁	07°57'29" ♀	-20°15'47"	-12°38'07"	-00°00'35"	40.525
03/07/2048 00:00:00	♁	27°32'15" ♂	-23°24'35"	00°00'00"	-00°00'00"	0.002
03/07/2048 00:00:00	♆	05°20'07" ♀	-11°55'25"	01°27'21"	-00°00'02"	8.376
03/07/2048 00:00:00	♁	16°57'52" ♀	23°41'03" ○	00°53'39"	00°06'38"	0.003
03/07/2048 00:00:00	♁	27°32'15" ♂	-23°24'35"	00°00'00"	-00°00'00"	0.002
03/07/2048 00:00:00	♁	09°11'26" ♀	23°28'12" ○	01°40'03"	-00°33'42"	0.003
03/07/2048 00:00:00	X	01°04'26" ♂	06°18'01"	-05°54'24"	00°00'15"	93.432
03/07/2048 00:00:00	Y	17°08'12" ♀	11°53'32"	-10°57'57"	00°00'47"	79.269
04/07/2048 00:00:00	♁	12°43'03" ♀	22°49'30"	00°00'00"	00°57'12"	1.017
04/07/2048 00:00:00	♁	24°12'23" ♂	13°46'22"	04°43'28"	12°16'39"	0.003
04/07/2048 00:00:00	♁	24°37'08" ♀	22°07'13"	-01°12'13"	01°40'11"	1.087
04/07/2048 00:00:00	♁	22°35'47" ♀	22°37'04"	01°05'36"	01°13'41"	1.698
04/07/2048 00:00:00	♁	05°51'25" ♂	-24°40'29" ○	-03°27'06"	-00°05'50"	0.509
04/07/2048 00:00:00	♃	16°32'55" ♀	22°12'37"	-00°32'43"	00°13'14"	5.945
04/07/2048 00:00:00	♅	12°40'40" ♂	-22°17'05"	00°32'46"	-00°04'26"	9.020



Ephemerides year 2048

04/07/2048 00:00:00	♃	08°08'21" ♉	09°12'34"	00°44'54"	00°02'29"	18.852
04/07/2048 00:00:00	♃	23°07'19" ♉	16°53'51"	-01°42'18"	00°01'36"	30.465
04/07/2048 00:00:00	♃	07°56'53" ♉	-20°16'17"	-12°38'25"	-00°00'36"	40.512
04/07/2048 00:00:00	♃	27°32'34" ♉	-23°24'35"	00°00'00"	00°00'37"	0.002
04/07/2048 00:00:00	♃	05°20'08" ♉	-11°55'16"	01°27'31"	00°00'03"	8.392
04/07/2048 00:00:00	♃	17°04'30" ♉	23°40'50" ○	00°52'47"	00°06'38"	0.003
04/07/2048 00:00:00	T♃	27°32'34" ♉	-23°24'35"	00°00'00"	00°00'37"	0.002
04/07/2048 00:00:00	T♃	09°02'10" ♉	23°27'36" ○	01°40'53"	00°13'34"	0.003
04/07/2048 00:00:00	X	01°04'40" ♉	06°18'04"	-05°54'26"	00°00'14"	93.415
04/07/2048 00:00:00	Y	17°09'00" ♉	11°53'33"	-10°58'00"	00°00'47"	79.262
05/07/2048 00:00:00	♃	13°40'15" ♉	22°43'52"	00°00'00"	00°57'12"	1.017
05/07/2048 00:00:00	♃	06°21'43" ♉	17°31'26"	04°07'17"	12°02'44"	0.003
05/07/2048 00:00:00	♃	26°18'58" ♉	22°23'09"	-00°59'45"	01°43'27"	1.109
05/07/2048 00:00:00	♃	23°49'28" ♉	22°26'11"	01°07'14"	01°13'41"	1.696
05/07/2048 00:00:00	♃	05°45'59" ♉	-24°40'29" ○	-03°28'05"	-00°05'01"	0.512
05/07/2048 00:00:00	♃	16°46'08" ♉	22°13'59"	-00°32'40"	00°13'11"	5.938
05/07/2048 00:00:00	♃	12°36'14" ♉	-22°17'35"	00°32'41"	-00°04'26"	9.020
05/07/2048 00:00:00	♃	08°10'52" ♉	09°11'36"	00°44'53"	00°02'32"	18.866
05/07/2048 00:00:00	♃	23°08'55" ♉	16°54'13"	-01°42'20"	00°01'34"	30.452

Ephemerides year 2048

05/07/2048 00:00:00	♁	07°56'15"	♅	-20°16'48"	-12°38'43"	-00°00'38"	40.499
05/07/2048 00:00:00	♁	27°33'29"	♂	-23°24'36"	00°00'00"	00°01'09"	0.002
05/07/2048 00:00:00	♁	05°20'15"	♃	-11°55'09"	01°27'41"	00°00'10"	8.408
05/07/2048 00:00:00	♁	17°11'09"	♁	23°40'37"	♁ 00°51'54"	00°06'38"	0.003
05/07/2048 00:00:00	♁	27°33'29"	♂	-23°24'36"	00°00'00"	00°01'09"	0.002
05/07/2048 00:00:00	♁	09°34'33"	♁	23°29'49"	♁ 01°38'06"	00°48'58"	0.003
05/07/2048 00:00:00	X	01°04'55"	♁	06°18'08"	-05°54'27"	00°00'13"	93.399
05/07/2048 00:00:00	Y	17°09'48"	♁	11°53'34"	-10°58'03"	00°00'47"	79.254
06/07/2048 00:00:00	♁	14°37'28"	♁	22°37'50"	00°00'00"	00°57'13"	1.017
06/07/2048 00:00:00	♁	18°19'21"	♁	20°29'33"	03°20'50"	11°53'16"	0.003
06/07/2048 00:00:00	♁	28°04'01"	♁	22°37'49"	-00°47'18"	01°46'37"	1.130
06/07/2048 00:00:00	♁	25°03'10"	♁	22°14'39"	01°08'49"	01°13'41"	1.694
06/07/2048 00:00:00	♁	05°41'23"	♂	-24°40'34"	♁ -03°29'00"	-00°04'10"	0.515
06/07/2048 00:00:00	♁	16°59'19"	♁	22°15'19"	-00°32'37"	00°13'09"	5.932
06/07/2048 00:00:00	♁	12°31'48"	♁	-22°18'05"	00°32'36"	-00°04'25"	9.020
06/07/2048 00:00:00	♁	08°13'26"	♁	09°10'37"	00°44'51"	00°02'34"	18.879
06/07/2048 00:00:00	♁	23°10'29"	♁	16°54'34"	-01°42'23"	00°01'33"	30.439
06/07/2048 00:00:00	♁	07°55'36"	♅	-20°17'20"	-12°39'01"	-00°00'39"	40.486
06/07/2048 00:00:00	♁	27°34'48"	♂	-23°24'38"	00°00'00"	00°01'26"	0.002

Ephemerides year 2048

06/07/2048 00:00:00	♁	05°20'28" ♎	-11°55'04"	01°27'51"	00°00'16"	8.424
06/07/2048 00:00:00	♁	17°17'48" ♍	23°40'23" ♁	00°51'02"	00°06'38"	0.003
06/07/2048 00:00:00	♁	27°34'48" ♎	-23°24'38"	00°00'00"	00°01'26"	0.002
06/07/2048 00:00:00	♁	10°35'39" ♍	23°33'35" ♁	01°32'48"	01°11'05"	0.003
06/07/2048 00:00:00	X	01°05'08" ♎	06°18'11"	-05°54'29"	00°00'13"	93.383
06/07/2048 00:00:00	Y	17°10'35" ♍	11°53'35"	-10°58'07"	00°00'47"	79.246
07/07/2048 00:00:00	♁	15°34'41" ♎	22°31'24"	00°00'00"	00°57'13"	1.017
07/07/2048 00:00:00	♁	00°09'40" ♍	22°33'38"	02°26'15"	11°48'02"	0.003
07/07/2048 00:00:00	♁	29°52'11" ♍	22°51'01"	-00°34'56"	01°49'40"	1.151
07/07/2048 00:00:00	♁	26°16'51" ♎	22°02'27"	01°10'22"	01°13'41"	1.692
07/07/2048 00:00:00	♁	05°37'38" ♎	-24°40'43" ♁	-03°29'50"	-00°03'20"	0.518
07/07/2048 00:00:00	♁	17°12'27" ♍	22°16'37"	-00°32'34"	00°13'06"	5.925
07/07/2048 00:00:00	♁	12°27'22" ♎	-22°18'35"	00°32'30"	-00°04'25"	9.021
07/07/2048 00:00:00	♁	08°16'01" ♎	09°09'37"	00°44'49"	00°02'36"	18.893
07/07/2048 00:00:00	♁	23°12'02" ♎	16°54'54"	-01°42'25"	00°01'32"	30.426
07/07/2048 00:00:00	♁	07°54'56" ♎	-20°17'51"	-12°39'19"	-00°00'40"	40.474
07/07/2048 00:00:00	♁	27°36'16" ♎	-23°24'39"	00°00'00"	00°01'24"	0.002
07/07/2048 00:00:00	♁	05°20'48" ♎	-11°55'01"	01°28'01"	00°00'23"	8.440
07/07/2048 00:00:00	♁	17°24'27" ♍	23°40'08" ♁	00°50'10"	00°06'38"	0.003

Ephemerides year 2048

07/07/2048 00:00:00	T♄	27°36'16" ♄	-23°24'39"	00°00'00"	00°01'24"	0.002
07/07/2048 00:00:00	T♄	11°53'07" ♀	23°37'40" ♀	01°26'00"	01°22'26"	0.003
07/07/2048 00:00:00	X	01°05'21" ♄	06°18'14"	-05°54'31"	00°00'12"	93.366
07/07/2048 00:00:00	Y	17°11'22" ♀	11°53'36"	-10°58'10"	00°00'46"	79.238
08/07/2048 00:00:00	♁	16°31'55" ♁	22°24'36"	00°00'00"	00°57'13"	1.017
08/07/2048 00:00:00	♁	11°56'42" ♀	23°37'52" ♀	01°25'43"	11°46'36"	0.003
08/07/2048 00:00:00	♁	01°43'20" ♁	23°02'33"	-00°22'43"	01°52'35"	1.171
08/07/2048 00:00:00	♁	27°30'32" ♁	21°49'38"	01°11'51"	01°13'41"	1.689
08/07/2048 00:00:00	♁	05°34'43" ♄	-24°40'57" ♀	-03°30'37"	-00°02'29"	0.522
08/07/2048 00:00:00	♁	17°25'32" ♀	22°17'54"	-00°32'31"	00°13'03"	5.918
08/07/2048 00:00:00	♁	12°22'57" ♄	-22°19'05"	00°32'25"	-00°04'25"	9.022
08/07/2048 00:00:00	♁	08°18'39" ♁	09°08'36"	00°44'47"	00°02'39"	18.906
08/07/2048 00:00:00	♁	23°13'33" ♄	16°55'14"	-01°42'28"	00°01'30"	30.412
08/07/2048 00:00:00	♁	07°54'15" ♁	-20°18'23"	-12°39'36"	-00°00'41"	40.461
08/07/2048 00:00:00	♁	27°37'31" ♄	-23°24'40"	00°00'00"	00°01'01"	0.002
08/07/2048 00:00:00	♁	05°21'14" ♁	-11°55'01"	01°28'10"	00°00'29"	8.456
08/07/2048 00:00:00	♁	17°31'06" ♀	23°39'54" ♀	00°49'17"	00°06'38"	0.003
08/07/2048 00:00:00	T♄	27°37'31" ♄	-23°24'40"	00°00'00"	00°01'01"	0.002
08/07/2048 00:00:00	T♄	13°18'50" ♀	23°41'15" ♀	01°18'24"	01°28'49"	0.003

Ephemerides year 2048

08/07/2048 00:00:00	X	01°05'34" ♃	06°18'17"	-05°54'32"	00°00'12"	93.350
08/07/2048 00:00:00	Y	17°12'09" ♀	11°53'37"	-10°58'13"	00°00'46"	79.230
09/07/2048 00:00:00	☉	17°29'09" ♃	22°17'24"	00°00'00"	00°57'13"	1.017
09/07/2048 00:00:00	☾	23°43'59" ♀	23°38'36" ○	00°21'34"	11°48'29"	0.003
09/07/2048 00:00:00	♁	03°37'18" ♃	23°12'15"	-00°10'43"	01°55'19"	1.190
09/07/2048 00:00:00	♂	28°44'14" ♃	21°36'11"	01°13'18"	01°13'41"	1.687
09/07/2048 00:00:00	♂	05°32'39" ♁	-24°41'16" ○	-03°31'19"	-00°01'38"	0.525
09/07/2048 00:00:00	♃	17°38'34" ♀	22°19'10"	-00°32'29"	00°13'00"	5.910
09/07/2048 00:00:00	♅	12°18'32" ♁	-22°19'35"	00°32'20"	-00°04'24"	9.023
09/07/2048 00:00:00	♁	08°21'20" ♃	09°07'34"	00°44'45"	00°02'41"	18.919
09/07/2048 00:00:00	♁	23°15'03" ♃	16°55'34"	-01°42'30"	00°01'29"	30.399
09/07/2048 00:00:00	♁	07°53'33" ♁	-20°18'55"	-12°39'54"	-00°00'42"	40.449
09/07/2048 00:00:00	♁	27°38'12" ♁	-23°24'41"	00°00'00"	00°00'18"	0.002
09/07/2048 00:00:00	♁	05°21'47" ♃	-11°55'03"	01°28'20"	00°00'36"	8.473
09/07/2048 00:00:00	♁	17°37'45" ♀	23°39'39" ○	00°48'25"	00°06'38"	0.003
09/07/2048 00:00:00	T♁	27°38'12" ♁	-23°24'41"	00°00'00"	00°00'18"	0.002
09/07/2048 00:00:00	T♁	14°51'53" ♀	23°44'02" ○	01°10'02"	01°38'35"	0.003
09/07/2048 00:00:00	X	01°05'46" ♃	06°18'19"	-05°54'34"	00°00'11"	93.333
09/07/2048 00:00:00	Y	17°12'55" ♀	11°53'37"	-10°58'17"	00°00'46"	79.221

Ephemerides year 2048

10/07/2048 00:00:00	☉	18°26'22" ♉	22°09'49"	-00°00'00"	00°57'14"	1.017
10/07/2048 00:00:00	☾	05°34'36" ♉	22°35'13"	-00°43'43"	11°53'10"	0.003
10/07/2048 00:00:00	♃	05°33'55" ♉	23°19'54"	00°00'58"	01°57'51"	1.209
10/07/2048 00:00:00	♄	29°57'55" ♉	21°22'06"	01°14'41"	01°13'41"	1.685
10/07/2048 00:00:00	♂	05°31'25" ♉	-24°41'41"	o-03°31'58"	-00°00'47"	0.528
10/07/2048 00:00:00	♁	17°51'33" ♉	22°20'24"	-00°32'26"	00°12'57"	5.903
10/07/2048 00:00:00	♂	12°14'08" ♉	-22°20'04"	00°32'14"	-00°04'23"	9.025
10/07/2048 00:00:00	♃	08°24'02" ♉	09°06'32"	00°44'43"	00°02'43"	18.932
10/07/2048 00:00:00	♃	23°16'31" ♉	16°55'53"	-01°42'33"	00°01'27"	30.385
10/07/2048 00:00:00	♃	07°52'49" ♉	-20°19'28"	-12°40'11"	-00°00'44"	40.437
10/07/2048 00:00:00	♃	27°38'02" ♉	-23°24'41"	00°00'00"	-00°00'40"	0.002
10/07/2048 00:00:00	♃	05°22'27" ♉	-11°55'07"	01°28'29"	00°00'42"	8.489
10/07/2048 00:00:00	♃	17°44'23" ♉	23°39'24"	o 00°47'33"	00°06'38"	0.003
10/07/2048 00:00:00	♃	27°38'02" ♉	-23°24'41"	00°00'00"	-00°00'40"	0.002
10/07/2048 00:00:00	♃	16°40'01" ♉	23°45'47"	o 01°00'11"	02°00'07"	0.003
10/07/2048 00:00:00	X	01°05'57" ♉	06°18'21"	-05°54'36"	00°00'10"	93.316
10/07/2048 00:00:00	Y	17°13'41" ♉	11°53'38"	-10°58'21"	00°00'45"	79.212
11/07/2048 00:00:00	☉	19°23'37" ♉	22°01'51"	-00°00'00"	00°57'14"	1.017
11/07/2048 00:00:00	☾	17°31'06" ♉	20°30'29"	-01°47'32"	12°00'09"	0.003

Ephemerides year 2048

11/07/2048 00:00:00	♀	07°32'57" ♉	23°25'21"	00°12'19"	02°00'10"	1.226
11/07/2048 00:00:00	♀	01°11'36" ♋	21°07'25"	01°16'01"	01°13'41"	1.682
11/07/2048 00:00:00	♂	05°31'03" ♌	-24°42'11" ○	-03°32'33"	00°00'02"	0.532
11/07/2048 00:00:00	♃	18°04'29" ♈	22°21'36"	-00°32'23"	00°12'54"	5.895
11/07/2048 00:00:00	♅	12°09'45" ♊	-22°20'34"	00°32'09"	-00°04'22"	9.027
11/07/2048 00:00:00	♁	08°26'47" ♋	09°05'29"	00°44'42"	00°02'45"	18.944
11/07/2048 00:00:00	♃	23°17'58" ♈	16°56'12"	-01°42'36"	00°01'26"	30.371
11/07/2048 00:00:00	♁	07°52'05" ♋	-20°20'00"	-12°40'28"	-00°00'45"	40.426
11/07/2048 00:00:00	♋	27°36'50" ♌	-23°24'40"	00°00'00"	-00°01'45"	0.002
11/07/2048 00:00:00	♋	05°23'13" ♋	-11°55'14"	01°28'39"	00°00'49"	8.505
11/07/2048 00:00:00	♋	17°51'02" ♈	23°39'08" ○	00°46'40"	00°06'38"	0.003
11/07/2048 00:00:00	T♋	27°36'50" ♌	-23°24'40"	00°00'00"	-00°01'45"	0.002
11/07/2048 00:00:00	T♋	18°57'19" ♈	23°45'49" ○	00°47'34"	02°36'50"	0.003
11/07/2048 00:00:00	X	01°06'08" ♋	06°18'24"	-05°54'37"	00°00'10"	93.299
11/07/2048 00:00:00	Y	17°14'26" ♈	11°53'38"	-10°58'25"	00°00'45"	79.203
12/07/2048 00:00:00	♁	20°20'51" ♉	21°53'30"	-00°00'00"	00°57'14"	1.017
12/07/2048 00:00:00	♃	29°35'33" ♉	17°30'18"	-02°47'10"	12°09'02"	0.003
12/07/2048 00:00:00	♀	09°34'11" ♉	23°28'26" ○	00°23'15"	02°02'14"	1.243
12/07/2048 00:00:00	♀	02°25'18" ♋	20°52'07"	01°17'18"	01°13'41"	1.680

Ephemerides year 2048

12/07/2048 00:00:00	♂	05°31'31" ♄	-24°42'47" ♁	-03°33'04"	00°00'53"	0.536
12/07/2048 00:00:00	♃	18°17'22" ♀	22°22'47"	-00°32'20"	00°12'51"	5.888
12/07/2048 00:00:00	♅	12°05'23" ♁	-22°21'03"	00°32'03"	-00°04'21"	9.029
12/07/2048 00:00:00	♁	08°29'34" ♃	09°04'25"	00°44'40"	00°02'47"	18.957
12/07/2048 00:00:00	♆	23°19'23" ♁	16°56'31"	-01°42'39"	00°01'24"	30.357
12/07/2048 00:00:00	♁	07°51'19" ♃	-20°20'33"	-12°40'45"	-00°00'46"	40.414
12/07/2048 00:00:00	♁	27°34'33" ♁	-23°24'37"	00°00'00"	-00°02'47"	0.002
12/07/2048 00:00:00	♃	05°24'06" ♃	-11°55'22"	01°28'48"	00°00'55"	8.522
12/07/2048 00:00:00	♁	17°57'41" ♀	23°38'52" ♁	00°45'48"	00°06'38"	0.003
12/07/2048 00:00:00	♁	27°34'33" ♁	-23°24'37"	00°00'00"	-00°02'47"	0.002
12/07/2048 00:00:00	♁	21°57'00" ♀	23°42'10" ♁	00°30'56"	03°23'12"	0.003
12/07/2048 00:00:00	X	01°06'18" ♁	06°18'25"	-05°54'39"	00°00'09"	93.282
12/07/2048 00:00:00	Y	17°15'11" ♀	11°53'38"	-10°58'28"	00°00'44"	79.193
13/07/2048 00:00:00	♁	21°18'05" ♁	21°44'47"	-00°00'00"	00°57'14"	1.017
13/07/2048 00:00:00	♁	11°49'43" ♁	13°42'50"	-03°39'51"	12°19'31"	0.003
13/07/2048 00:00:00	♁	11°37'21" ♁	23°29'02" ♁	00°33'41"	02°04'02"	1.258
13/07/2048 00:00:00	♀	03°38'59" ♁	20°36'14"	01°18'31"	01°13'40"	1.677
13/07/2048 00:00:00	♂	05°32'50" ♄	-24°43'28" ♁	-03°33'31"	00°01'43"	0.540
13/07/2048 00:00:00	♃	18°30'12" ♀	22°23'56"	-00°32'18"	00°12'48"	5.880



Ephemerides year 2048

13/07/2048 00:00:00	♃	12°01'01" ♄	-22°21'32"	00°31'57"	-00°04'20"	9.031
13/07/2048 00:00:00	♅	08°32'22" ♃	09°03'20"	00°44'38"	00°02'49"	18.969
13/07/2048 00:00:00	♆	23°20'47" ♄	16°56'49"	-01°42'41"	00°01'22"	30.343
13/07/2048 00:00:00	♁	07°50'32" ♃	-20°21'07"	-12°41'01"	-00°00'47"	40.403
13/07/2048 00:00:00	♄	27°31'20" ♃	-23°24'34"	00°00'00"	-00°03'34"	0.002
13/07/2048 00:00:00	♁	05°25'05" ♃	-11°55'33"	01°28'57"	00°01'02"	8.539
13/07/2048 00:00:00	♁	18°04'20" ♃	23°38'36" ○	00°44'55"	00°06'38"	0.003
13/07/2048 00:00:00	♄	27°31'20" ♃	-23°24'34"	00°00'00"	-00°03'34"	0.002
13/07/2048 00:00:00	♁	25°42'31" ♃	23°31'45" ○	00°09'58"	04°05'54"	0.003
13/07/2048 00:00:00	♁	01°06'27" ♄	06°18'27"	-05°54'41"	00°00'09"	93.265
13/07/2048 00:00:00	♁	17°15'56" ♃	11°53'38"	-10°58'33"	00°00'44"	79.184
14/07/2048 00:00:00	♁	22°15'20" ♃	21°35'42"	-00°00'00"	00°57'14"	1.017
14/07/2048 00:00:00	♁	24°15'04" ♄	09°17'46"	-04°22'57"	12°31'25"	0.003
14/07/2048 00:00:00	♁	13°42'10" ♃	23°27'01" ○	00°43'35"	02°05'32"	1.273
14/07/2048 00:00:00	♁	04°52'40" ♄	20°19'46"	01°19'42"	01°13'40"	1.675
14/07/2048 00:00:00	♁	05°34'59" ♃	-24°44'15" ○	-03°33'55"	00°02'33"	0.543
14/07/2048 00:00:00	♁	18°42'58" ♃	22°25'04"	-00°32'15"	00°12'44"	5.871
14/07/2048 00:00:00	♃	11°56'41" ♄	-22°22'01"	00°31'51"	-00°04'19"	9.034
14/07/2048 00:00:00	♅	08°35'13" ♃	09°02'14"	00°44'36"	00°02'51"	18.981

Ephemerides year 2048

14/07/2048 00:00:00	♁	23°22'09"	♄	16°57'07"	-01°42'44"	00°01'21"	30.329
14/07/2048 00:00:00	♁	07°49'43"	♄	-20°21'40"	-12°41'17"	-00°00'48"	40.392
14/07/2048 00:00:00	♁	27°27'31"	♄	-23°24'29"	00°00'00"	-00°03'58"	0.002
14/07/2048 00:00:00	♁	05°26'10"	♄	-11°55'46"	01°29'06"	00°01'08"	8.555
14/07/2048 00:00:00	♁	18°10'59"	♄	23°38'19"	00°44'03"	00°06'38"	0.003
14/07/2048 00:00:00	T♁	27°27'31"	♄	-23°24'29"	00°00'00"	-00°03'58"	0.002
14/07/2048 00:00:00	T♁	00°02'39"	♄	23°11'45"	-00°14'12"	04°30'15"	0.003
14/07/2048 00:00:00	X	01°06'36"	♄	06°18'28"	-05°54'42"	00°00'08"	93.249
14/07/2048 00:00:00	Y	17°16'40"	♄	11°53'38"	-10°58'37"	00°00'43"	79.174
15/07/2048 00:00:00	♁	23°12'35"	♄	21°26'14"	-00°00'00"	00°57'14"	1.016
15/07/2048 00:00:00	♁	06°53'00"	♄	04°25'33"	-04°54'03"	12°44'41"	0.003
15/07/2048 00:00:00	♁	15°48'21"	♄	23°22'20"	00°52'53"	02°06'44"	1.286
15/07/2048 00:00:00	♁	06°06'20"	♄	20°02'44"	01°20'48"	01°13'40"	1.672
15/07/2048 00:00:00	♁	05°37'58"	♄	-24°45'07"	-03°34'15"	00°03'23"	0.547
15/07/2048 00:00:00	♁	18°55'41"	♄	22°26'10"	-00°32'13"	00°12'41"	5.863
15/07/2048 00:00:00	♁	11°52'22"	♄	-22°22'30"	00°31'46"	-00°04'18"	9.037
15/07/2048 00:00:00	♁	08°38'06"	♄	09°01'08"	00°44'35"	00°02'53"	18.993
15/07/2048 00:00:00	♁	23°23'29"	♄	16°57'24"	-01°42'47"	00°01'19"	30.314
15/07/2048 00:00:00	♁	07°48'54"	♄	-20°22'14"	-12°41'34"	-00°00'49"	40.381

Ephemerides year 2048

15/07/2048 00:00:00	♏	27°23'34" ♀	-23°24'25"	00°00'00"	-00°03'51"	0.002
15/07/2048 00:00:00	♋	05°27'22" ♀	-11°56'01"	01°29'15"	00°01'15"	8.572
15/07/2048 00:00:00	♌	18°17'37" ♀	23°38'02" ♀	00°43'10"	00°06'38"	0.003
15/07/2048 00:00:00	♏	27°23'34" ♀	-23°24'25"	00°00'00"	-00°03'51"	0.002
15/07/2048 00:00:00	♌	04°33'29" ♀	22°42'01"	-00°39'15"	04°26'13"	0.003
15/07/2048 00:00:00	X	01°06'44" ♀	06°18'30"	-05°54'44"	00°00'07"	93.232
15/07/2048 00:00:00	Y	17°17'24" ♀	11°53'37"	-10°58'41"	00°00'43"	79.164
16/07/2048 00:00:00	♏	24°09'49" ♀	21°16'25"	-00°00'00"	00°57'14"	1.016
16/07/2048 00:00:00	♎	19°44'53" ♀	-00°42'40"	-05°11'01"	12°59'18"	0.003
16/07/2048 00:00:00	♌	17°55'34" ♀	23°14'56"	01°01'31"	02°07'38"	1.297
16/07/2048 00:00:00	♌	07°20'01" ♀	19°45'08"	01°21'52"	01°13'40"	1.669
16/07/2048 00:00:00	♌	05°41'46" ♀	-24°46'05" ♀	-03°34'32"	00°04'13"	0.551
16/07/2048 00:00:00	♌	19°08'21" ♀	22°27'15"	-00°32'10"	00°12'37"	5.855
16/07/2048 00:00:00	♌	11°48'05" ♀	-22°22'58"	00°31'40"	-00°04'16"	9.041
16/07/2048 00:00:00	♌	08°41'01" ♀	09°00'01"	00°44'33"	00°02'55"	19.005
16/07/2048 00:00:00	♌	23°24'48" ♀	16°57'41"	-01°42'50"	00°01'17"	30.300
16/07/2048 00:00:00	♌	07°48'04" ♀	-20°22'48"	-12°41'49"	-00°00'51"	40.370
16/07/2048 00:00:00	♏	27°19'58" ♀	-23°24'21"	00°00'00"	-00°03'14"	0.002
16/07/2048 00:00:00	♋	05°28'40" ♀	-11°56'19"	01°29'24"	00°01'21"	8.589

Ephemerides year 2048

16/07/2048 00:00:00	☾	18°24'16" ♀	23°37'45" ♀	00°42'18" ♀	00°06'38" ♀	0.003
16/07/2048 00:00:00	♄	27°19'58" ♀	-23°24'21" ♀	00°00'00" ♀	-00°03'14" ♀	0.002
16/07/2048 00:00:00	♄	08°44'33" ♀	22°06'34" ♀	-01°02'14" ♀	03°50'44" ♀	0.003
16/07/2048 00:00:00	X	01°06'51" ♀	06°18'30" ♀	-05°54'46" ♀	00°00'07" ♀	93.214
16/07/2048 00:00:00	Y	17°18'07" ♀	11°53'37" ♀	-10°58'45" ♀	00°00'43" ♀	79.154
17/07/2048 00:00:00	♁	25°07'04" ♀	21°06'14" ♀	-00°00'00" ♀	00°57'14" ♀	1.016
17/07/2048 00:00:00	♂	02°52'05" ♀	-05°54'53" ♀	-05°12'16" ♀	13°15'18" ♀	0.003
17/07/2048 00:00:00	♀	20°03'31" ♀	23°04'47" ♀	01°09'28" ♀	02°08'13" ♀	1.308
17/07/2048 00:00:00	♀	08°33'41" ♀	19°26'59" ♀	01°22'51" ♀	01°13'39" ♀	1.666
17/07/2048 00:00:00	♂	05°46'24" ♀	-24°47'09" ♀	-03°34'46" ♀	00°05'01" ♀	0.555
17/07/2048 00:00:00	♃	19°20'56" ♀	22°28'18" ♀	-00°32'07" ♀	00°12'33" ♀	5.846
17/07/2048 00:00:00	♃	11°43'49" ♀	-22°23'27" ♀	00°31'34" ♀	-00°04'14" ♀	9.044
17/07/2048 00:00:00	♃	08°43'58" ♀	08°58'53" ♀	00°44'31" ♀	00°02'57" ♀	19.016
17/07/2048 00:00:00	♃	23°26'05" ♀	16°57'57" ♀	-01°42'53" ♀	00°01'16" ♀	30.285
17/07/2048 00:00:00	♃	07°47'12" ♀	-20°23'22" ♀	-12°42'05" ♀	-00°00'52" ♀	40.359
17/07/2048 00:00:00	♄	27°17'13" ♀	-23°24'17" ♀	00°00'00" ♀	-00°02'12" ♀	0.002
17/07/2048 00:00:00	♃	05°30'05" ♀	-11°56'39" ♀	01°29'33" ♀	00°01'27" ♀	8.606
17/07/2048 00:00:00	☾	18°30'55" ♀	23°37'27" ♀	00°41'25" ♀	00°06'38" ♀	0.003
17/07/2048 00:00:00	♄	27°17'13" ♀	-23°24'17" ♀	00°00'00" ♀	-00°02'12" ♀	0.002

Ephemerides year 2048

17/07/2048 00:00:00	T♄	12°05'29" ♉	21°32'55"	-01°20'22"	02°46'57"	0.003
17/07/2048 00:00:00	X	01°06'58" ♋	06°18'31"	-05°54'48"	00°00'06"	93.197
17/07/2048 00:00:00	Y	17°18'50" ♋	11°53'36"	-10°58'50"	00°00'42"	79.143
18/07/2048 00:00:00	☉	26°04'19" ♉	20°55'42"	-00°00'00"	00°57'15"	1.016
18/07/2048 00:00:00	☾	16°15'55" ♋	-10°57'26"	-04°56'45"	13°32'31"	0.003
18/07/2048 00:00:00	♀	22°11'54" ♉	22°51'56"	01°16'41"	02°08'30"	1.316
18/07/2048 00:00:00	♀	09°47'20" ♋	19°08'17"	01°23'47"	01°13'39"	1.664
18/07/2048 00:00:00	♂	05°51'50" ♋	-24°48'18"	0-03°34'57"	00°05'50"	0.559
18/07/2048 00:00:00	♃	19°33'28" ♋	22°29'19"	-00°32'05"	00°12'30"	5.837
18/07/2048 00:00:00	♅	11°39'35" ♋	-22°23'55"	00°31'28"	-00°04'13"	9.048
18/07/2048 00:00:00	♁	08°46'57" ♋	08°57'44"	00°44'30"	00°02'59"	19.028
18/07/2048 00:00:00	♃	23°27'21" ♋	16°58'13"	-01°42'56"	00°01'14"	30.270
18/07/2048 00:00:00	♁	07°46'19" ♋	-20°23'56"	-12°42'20"	-00°00'53"	40.349
18/07/2048 00:00:00	♁	27°15'38" ♋	-23°24'15"	00°00'00"	-00°00'56"	0.002
18/07/2048 00:00:00	♁	05°31'36" ♋	-11°57'00"	01°29'42"	00°01'34"	8.623
18/07/2048 00:00:00	♁	18°37'34" ♋	23°37'09"	00°40'32"	00°06'38"	0.003
18/07/2048 00:00:00	T♁	27°15'38" ♋	-23°24'15"	00°00'00"	-00°00'56"	0.002
18/07/2048 00:00:00	T♄	14°11'56" ♉	21°09'25"	-01°31'39"	01°23'46"	0.003
18/07/2048 00:00:00	X	01°07'04" ♋	06°18'32"	-05°54'49"	00°00'05"	93.180

Ephemerides year 2048

18/07/2048 00:00:00	Y	17°19'32" ♀	11°53'35"	-10°58'55"	00°00'42"	79.132
19/07/2048 00:00:00	☉	27°01'34" ♁	20°44'49"	-00°00'00"	00°57'15"	1.016
19/07/2048 00:00:00	☾	29°57'26" ♁	-15°34'20"	-04°24'16"	13°50'36"	0.003
19/07/2048 00:00:00	♋	24°20'25" ♁	22°36'25"	01°23'09"	02°08'29"	1.324
19/07/2048 00:00:00	♌	11°01'00" ♁	18°49'03"	01°24'40"	01°13'39"	1.661
19/07/2048 00:00:00	♍	05°58'04" ♁	-24°49'33"	o-03°35'05"	00°06'37"	0.564
19/07/2048 00:00:00	♎	19°45'57" ♀	22°30'20"	-00°32'03"	00°12'26"	5.828
19/07/2048 00:00:00	♏	11°35'23" ♁	-22°24'23"	00°31'22"	-00°04'11"	9.053
19/07/2048 00:00:00	♐	08°49'58" ♁	08°56'35"	00°44'28"	00°03'01"	19.039
19/07/2048 00:00:00	♑	23°28'34" ♁	16°58'28"	-01°42'59"	00°01'13"	30.255
19/07/2048 00:00:00	♒	07°45'26" ♁	-20°24'31"	-12°42'36"	-00°00'54"	40.339
19/07/2048 00:00:00	♓	27°15'18" ♁	-23°24'15"	00°00'00"	00°00'15"	0.002
19/07/2048 00:00:00	♈	05°33'14" ♁	-11°57'24"	01°29'51"	00°01'40"	8.640
19/07/2048 00:00:00	♉	18°44'12" ♀	23°36'50"	o 00°39'40"	00°06'38"	0.003
19/07/2048 00:00:00	T♏	27°15'18" ♁	-23°24'15"	00°00'00"	00°00'15"	0.002
19/07/2048 00:00:00	T♎	14°51'37" ♁	21°01'42"	-01°35'08"	-00°03'28"	0.003
19/07/2048 00:00:00	X	01°07'09" ♁	06°18'32"	-05°54'51"	00°00'05"	93.163
19/07/2048 00:00:00	Y	17°20'14" ♀	11°53'34"	-10°58'59"	00°00'41"	79.121
20/07/2048 00:00:00	☉	27°58'50" ♁	20°33'35"	-00°00'00"	00°57'15"	1.016

Ephemerides year 2048

20/07/2048 00:00:00	♃	13°57'09" ♎	-19°26'54"	-03°35'32"	14°08'44"	0.002
20/07/2048 00:00:00	♆	26°28'49" ♉	22°18'19"	01°28'50"	02°08'13"	1.330
20/07/2048 00:00:00	♀	12°14'39" ♋	18°29'18"	01°25'29"	01°13'39"	1.658
20/07/2048 00:00:00	♂	06°05'06" ♊	-24°50'53"	0-03°35'11"	00°07'25"	0.568
20/07/2048 00:00:00	♃	19°58'21" ♎	22°31'18"	-00°32'00"	00°12'22"	5.819
20/07/2048 00:00:00	♄	11°31'13" ♉	-22°24'50"	00°31'16"	-00°04'08"	9.057
20/07/2048 00:00:00	♁	08°53'00" ♋	08°55'25"	00°44'27"	00°03'03"	19.050
20/07/2048 00:00:00	♃	23°29'47" ♎	16°58'43"	-01°43'02"	00°01'11"	30.240
20/07/2048 00:00:00	♁	07°44'31" ♋	-20°25'05"	-12°42'50"	-00°00'55"	40.329
20/07/2048 00:00:00	♁	27°16'02" ♊	-23°24'16"	00°00'00"	00°01'08"	0.002
20/07/2048 00:00:00	♃	05°34'58" ♎	-11°57'51"	01°29'59"	00°01'47"	8.657
20/07/2048 00:00:00	♁	18°50'51" ♎	23°36'32"	00°38'47"	00°06'38"	0.003
20/07/2048 00:00:00	♁	27°16'02" ♊	-23°24'16"	00°00'00"	00°01'08"	0.002
20/07/2048 00:00:00	♁	14°10'26" ♉	21°09'45"	-01°31'28"	-01°14'28"	0.003
20/07/2048 00:00:00	X	01°07'14" ♉	06°18'32"	-05°54'53"	00°00'04"	93.146
20/07/2048 00:00:00	Y	17°20'56" ♎	11°53'33"	-10°59'04"	00°00'41"	79.110
21/07/2048 00:00:00	♁	28°56'05" ♉	20°22'00"	-00°00'00"	00°57'15"	1.016
21/07/2048 00:00:00	♃	28°14'33" ♎	-22°14'28"	-02°32'34"	14°25'43"	0.002
21/07/2048 00:00:00	♆	28°36'48" ♉	21°57'44"	01°33'45"	02°07'43"	1.334

Ephemerides year 2048

21/07/2048 00:00:00	♀	13°28'18" ♀	18°09'03"	01°26'14"	01°13'38"	1.655
21/07/2048 00:00:00	♂	06°12'54" ♂	-24°52'18"	o-03°35'13"	00°08'11"	0.572
21/07/2048 00:00:00	♃	20°10'42" ♀	22°32'16"	-00°31'58"	00°12'18"	5.810
21/07/2048 00:00:00	♅	11°27'05" ♂	-22°25'17"	00°31'10"	-00°04'06"	9.062
21/07/2048 00:00:00	♁	08°56'05" ♀	08°54'14"	00°44'25"	00°03'05"	19.060
21/07/2048 00:00:00	♃	23°30'57" ♂	16°58'58"	-01°43'05"	00°01'09"	30.224
21/07/2048 00:00:00	♁	07°43'36" ♂	-20°25'40"	-12°43'05"	-00°00'55"	40.319
21/07/2048 00:00:00	♁	27°17'23" ♂	-23°24'17"	00°00'00"	00°01'26"	0.002
21/07/2048 00:00:00	♁	05°36'48" ♀	-11°58'19"	01°30'08"	00°01'53"	8.674
21/07/2048 00:00:00	♁	18°57'30" ♀	23°36'12"	o 00°37'55"	00°06'38"	0.003
21/07/2048 00:00:00	T♁	27°17'23" ♂	-23°24'17"	00°00'00"	00°01'26"	0.002
21/07/2048 00:00:00	T♁	12°33'46" ♂	21°27'55"	-01°22'48"	-01°52'42"	0.003
21/07/2048 00:00:00	X	01°07'19" ♂	06°18'32"	-05°54'55"	00°00'04"	93.129
21/07/2048 00:00:00	Y	17°21'37" ♀	11°53'31"	-10°59'09"	00°00'40"	79.099
22/07/2048 00:00:00	♁	29°53'21" ♂	20°10'05"	-00°00'00"	00°57'16"	1.016
22/07/2048 00:00:00	♃	12°47'40" ♂	-23°37'38"	o-01°18'43"	14°39'53"	0.002
22/07/2048 00:00:00	♁	00°44'11" ♀	21°34'47"	01°37'53"	02°06'59"	1.338
22/07/2048 00:00:00	♀	14°41'57" ♀	17°48'17"	01°26'55"	01°13'38"	1.652
22/07/2048 00:00:00	♂	06°21'28" ♂	-24°53'48"	o-03°35'13"	00°08'56"	0.577



Ephemerides year 2048

22/07/2048 00:00:00	♃	20°22'59" ♀	22°33'11"	-00°31'56"	00°12'14"	5.800
22/07/2048 00:00:00	♅	11°23'00" ♀	-22°25'44"	00°31'04"	-00°04'04"	9.067
22/07/2048 00:00:00	♁	08°59'11" ♀	08°53'03"	00°44'24"	00°03'07"	19.071
22/07/2048 00:00:00	♆	23°32'06" ♀	16°59'12"	-01°43'08"	00°01'08"	30.209
22/07/2048 00:00:00	♁	07°42'39" ♀	-20°26'15"	-12°43'20"	-00°00'56"	40.310
22/07/2048 00:00:00	♁	27°18'41" ♀	-23°24'19"	00°00'00"	00°01'02"	0.002
22/07/2048 00:00:00	♁	05°38'45" ♀	-11°58'49"	01°30'17"	00°01'59"	8.691
22/07/2048 00:00:00	♁	19°04'09" ♀	23°35'53" ○	00°37'02"	00°06'38"	0.003
22/07/2048 00:00:00	♁	27°18'41" ♀	-23°24'19"	00°00'00"	00°01'02"	0.002
22/07/2048 00:00:00	♁	10°36'30" ♀	21°48'31"	-01°12'14"	-01°57'09"	0.003
22/07/2048 00:00:00	X	01°07'23" ♀	06°18'31"	-05°54'56"	00°00'03"	93.112
22/07/2048 00:00:00	Y	17°22'18" ♀	11°53'30"	-10°59'14"	00°00'40"	79.087
23/07/2048 00:00:00	♁	00°50'37" ♀	19°57'50"	00°00'00"	00°57'16"	1.016
23/07/2048 00:00:00	♁	27°32'46" ♀	-23°23'21"	00°01'14"	14°49'21"	0.002
23/07/2048 00:00:00	♁	02°50'44" ♀	21°09'36"	01°41'15"	02°06'04"	1.340
23/07/2048 00:00:00	♁	15°55'35" ♀	17°27'03"	01°27'33"	01°13'37"	1.649
23/07/2048 00:00:00	♁	06°30'47" ♀	-24°55'23" ○	-03°35'10"	00°09'41"	0.581
23/07/2048 00:00:00	♃	20°35'12" ♀	22°34'06"	-00°31'53"	00°12'10"	5.791
23/07/2048 00:00:00	♅	11°18'56" ♀	-22°26'11"	00°30'57"	-00°04'01"	9.072

Ephemerides year 2048

23/07/2048 00:00:00	♃	09°02'19" ♃	08°51'51"	00°44'23"	00°03'08"	19.081
23/07/2048 00:00:00	♃	23°33'13" ♃	16°59'25"	-01°43'11"	00°01'06"	30.194
23/07/2048 00:00:00	♃	07°41'42" ♃	-20°26'50"	-12°43'34"	-00°00'57"	40.300
23/07/2048 00:00:00	♃	27°19'15" ♃	-23°24'20"	00°00'00"	-00°00'00"	0.002
23/07/2048 00:00:00	♃	05°40'48" ♃	-11°59'22"	01°30'25"	00°02'06"	8.708
23/07/2048 00:00:00	♃	19°10'48" ♃	23°35'33" ♃	00°36'09"	00°06'38"	0.003
23/07/2048 00:00:00	♃	27°19'15" ♃	-23°24'20"	00°00'00"	-00°00'00"	0.002
23/07/2048 00:00:00	♃	08°45'28" ♃	22°06'32"	-01°02'11"	-01°43'43"	0.003
23/07/2048 00:00:00	X	01°07'26" ♃	06°18'31"	-05°54'58"	00°00'02"	93.094
23/07/2048 00:00:00	Y	17°22'58" ♃	11°53'28"	-10°59'19"	00°00'39"	79.076
24/07/2048 00:00:00	♃	01°47'54" ♃	19°45'14"	00°00'00"	00°57'16"	1.016
24/07/2048 00:00:00	♃	12°24'14" ♃	-21°30'03"	01°21'33"	14°52'22"	0.002
24/07/2048 00:00:00	♃	04°56'16" ♃	20°42'19"	01°43'51"	02°04'59"	1.341
24/07/2048 00:00:00	♃	17°09'12" ♃	17°05'20"	01°28'06"	01°13'37"	1.646
24/07/2048 00:00:00	♃	06°40'51" ♃	-24°57'03" ♃	-03°35'05"	00°10'25"	0.585
24/07/2048 00:00:00	♃	20°47'21" ♃	22°34'59"	-00°31'51"	00°12'06"	5.781
24/07/2048 00:00:00	♃	11°14'56" ♃	-22°26'38"	00°30'51"	-00°03'59"	9.078
24/07/2048 00:00:00	♃	09°05'29" ♃	08°50'38"	00°44'21"	00°03'10"	19.091
24/07/2048 00:00:00	♃	23°34'19" ♃	16°59'39"	-01°43'14"	00°01'04"	30.178

Ephemerides year 2048

24/07/2048 00:00:00	♁	07°40'44" ♃	-20°27'25"	-12°43'48"	-00°00'58"	40.291
24/07/2048 00:00:00	♁	27°18'30" ♃	-23°24'19"	00°00'00"	-00°01'32"	0.002
24/07/2048 00:00:00	♃	05°42'57" ♃	-11°59'56"	01°30'34"	00°02'12"	8.726
24/07/2048 00:00:00	♁	19°17'26" ♃	23°35'13" ♁	00°35'16"	00°06'38"	0.003
24/07/2048 00:00:00	♁	27°18'30" ♃	-23°24'19"	00°00'00"	-00°01'32"	0.002
24/07/2048 00:00:00	♁	07°08'00" ♃	22°21'04"	-00°53'26"	-01°33'08"	0.003
24/07/2048 00:00:00	X	01°07'28" ♃	06°18'30"	-05°55'00"	00°00'02"	93.077
24/07/2048 00:00:00	Y	17°23'37" ♃	11°53'26"	-10°59'25"	00°00'39"	79.064
25/07/2048 00:00:00	♁	02°45'11" ♃	19°32'20"	00°00'00"	00°57'17"	1.016
25/07/2048 00:00:00	♁	27°14'58" ♃	-18°09'01"	02°36'08"	14°47'47"	0.002
25/07/2048 00:00:00	♁	07°00'40" ♃	20°13'07"	01°45'42"	02°03'46"	1.340
25/07/2048 00:00:00	♁	18°22'50" ♃	16°43'09"	01°28'36"	01°13'37"	1.642
25/07/2048 00:00:00	♁	06°51'38" ♃	-24°58'48" ♁	-03°34'58"	00°11'08"	0.590
25/07/2048 00:00:00	♁	20°59'25" ♃	22°35'51"	-00°31'49"	00°12'02"	5.771
25/07/2048 00:00:00	♁	11°10'58" ♃	-22°27'04"	00°30'45"	-00°03'56"	9.084
25/07/2048 00:00:00	♁	09°08'40" ♃	08°49'25"	00°44'20"	00°03'12"	19.101
25/07/2048 00:00:00	♁	23°35'23" ♃	16°59'51"	-01°43'17"	00°01'02"	30.162
25/07/2048 00:00:00	♁	07°39'45" ♃	-20°28'00"	-12°44'01"	-00°00'59"	40.283
25/07/2048 00:00:00	♁	27°16'07" ♃	-23°24'16"	00°00'00"	-00°03'14"	0.002



































Ephemerides year 2048

25/07/2048 00:00:00	♄	05°45'13" ♎	-12°00'33"	01°30'42"	00°02'18"	8.743
25/07/2048 00:00:00	♁	19°24'05" ♏	23°34'52" ♁	00°34'24"	00°06'38"	0.003
25/07/2048 00:00:00	♁	27°16'07" ♏	-23°24'16"	00°00'00"	-00°03'14"	0.002
25/07/2048 00:00:00	♁	05°33'33" ♏	22°33'54"	-00°45'05"	-01°38'59"	0.003
25/07/2048 00:00:00	X	01°07'30" ♏	06°18'29"	-05°55'02"	00°00'01"	93.060
25/07/2048 00:00:00	Y	17°24'17" ♏	11°53'24"	-10°59'30"	00°00'38"	79.051
26/07/2048 00:00:00	♁	03°42'28" ♏	19°19'05"	00°00'00"	00°57'17"	1.016
26/07/2048 00:00:00	♁	11°57'14" ♏	-13°41'07"	03°39'30"	14°35'29"	0.002
26/07/2048 00:00:00	♁	09°03'48" ♏	19°42'07"	01°46'49"	02°02'27"	1.339
26/07/2048 00:00:00	♁	19°36'27" ♏	16°20'31"	01°29'02"	01°13'36"	1.639
26/07/2048 00:00:00	♁	07°03'07" ♏	-25°00'37"	0-03°34'48"	00°11'50"	0.594
26/07/2048 00:00:00	♁	21°11'26" ♏	22°36'41"	-00°31'47"	00°11'58"	5.761
26/07/2048 00:00:00	♁	11°07'02" ♏	-22°27'30"	00°30'39"	-00°03'54"	9.090
26/07/2048 00:00:00	♁	09°11'53" ♏	08°48'12"	00°44'19"	00°03'13"	19.111
26/07/2048 00:00:00	♁	23°36'24" ♏	17°00'04"	-01°43'20"	00°01'00"	30.147
26/07/2048 00:00:00	♁	07°38'44" ♏	-20°28'36"	-12°44'15"	-00°01'00"	40.274
26/07/2048 00:00:00	♁	27°12'06" ♏	-23°24'11"	00°00'00"	-00°04'42"	0.002
26/07/2048 00:00:00	♁	05°47'34" ♏	-12°01'12"	01°30'51"	00°02'24"	8.760
26/07/2048 00:00:00	♁	19°30'44" ♏	23°34'31" ♁	00°33'31"	00°06'38"	0.003

Ephemerides year 2048

26/07/2048 00:00:00	T♄	27°12'06" ♏	-23°24'11"	00°00'00"	-00°04'42"	0.002
26/07/2048 00:00:00	T♄	03°43'50" ♏	22°47'19"	-00°35'29"	-02°03'01"	0.003
26/07/2048 00:00:00	X	01°07'31" ♏	06°18'28"	-05°55'03"	00°00'00"	93.043
26/07/2048 00:00:00	Y	17°24'55" ♏	11°53'22"	-10°59'36"	00°00'38"	79.039
27/07/2048 00:00:00	♁	04°39'47" ♏	19°05'32"	00°00'00"	00°57'18"	1.016
27/07/2048 00:00:00	♂	26°23'42" ♏	-08°31'00"	04°27'32"	14°16'29"	0.002
27/07/2048 00:00:00	♀	11°05'33" ♏	19°09'30"	01°47'15"	02°01'02"	1.337
27/07/2048 00:00:00	♀	20°50'03" ♏	15°57'27"	01°29'23"	01°13'36"	1.636
27/07/2048 00:00:00	♂	07°15'19" ♏	-25°02'30"	0-03°34'37"	00°12'32"	0.599
27/07/2048 00:00:00	♃	21°23'22" ♏	22°37'30"	-00°31'45"	00°11'53"	5.751
27/07/2048 00:00:00	♃	11°03'09" ♏	-22°27'56"	00°30'32"	-00°03'51"	9.097
27/07/2048 00:00:00	♃	09°15'08" ♏	08°46'57"	00°44'17"	00°03'15"	19.120
27/07/2048 00:00:00	♃	23°37'24" ♏	17°00'15"	-01°43'23"	00°00'59"	30.131
27/07/2048 00:00:00	♃	07°37'43" ♏	-20°29'11"	-12°44'28"	-00°01'01"	40.266
27/07/2048 00:00:00	♁	27°06'51" ♏	-23°24'04"	00°00'00"	-00°05'39"	0.002
27/07/2048 00:00:00	♃	05°50'02" ♏	-12°01'53"	01°30'59"	00°02'30"	8.777
27/07/2048 00:00:00	♃	19°37'23" ♏	23°34'10"	00°32'38"	00°06'38"	0.003
27/07/2048 00:00:00	T♄	27°06'51" ♏	-23°24'04"	00°00'00"	-00°05'39"	0.002
27/07/2048 00:00:00	T♄	01°24'24" ♏	23°02'10"	-00°23'20"	-02°36'06"	0.003

Ephemerides year 2048

27/07/2048 00:00:00	X	01°07'32" 	06°18'26"	-05°55'05"	00°00'00"	93.026
27/07/2048 00:00:00	Y	17°25'33" 	11°53'20"	-10°59'41"	00°00'37"	79.026
28/07/2048 00:00:00		05°37'06" 	18°51'40"	00°00'00"	00°57'19"	1.015
28/07/2048 00:00:00		10°28'37" 	-03°02'11"	04°57'57"	13°52'45"	0.003
28/07/2048 00:00:00		13°05'51" 	18°35'23"	01°47'00"	01°59'33"	1.333
28/07/2048 00:00:00		22°03'40" 	15°33'57"	01°29'41"	01°13'36"	1.632
28/07/2048 00:00:00		07°28'12" 	-25°04'26"	o-03°34'23"	00°13'13"	0.604
28/07/2048 00:00:00		21°35'13" 	22°38'17"	-00°31'43"	00°11'49"	5.740
28/07/2048 00:00:00		10°59'19" 	-22°28'21"	00°30'26"	-00°03'48"	9.103
28/07/2048 00:00:00		09°18'24" 	08°45'42"	00°44'16"	00°03'16"	19.130
28/07/2048 00:00:00		23°38'23" 	17°00'27"	-01°43'26"	00°00'57"	30.115
28/07/2048 00:00:00		07°36'41" 	-20°29'47"	-12°44'41"	-00°01'02"	40.258
28/07/2048 00:00:00		27°01'01" 	-23°23'56"	00°00'00"	-00°05'53"	0.002
28/07/2048 00:00:00		05°52'35" 	-12°02'36"	01°31'07"	00°02'36"	8.794
28/07/2048 00:00:00		19°44'01" 	23°33'49"	o 00°31'45"	00°06'38"	0.003
28/07/2048 00:00:00	T 	27°01'01" 	-23°23'56"	00°00'00"	-00°05'53"	0.002
28/07/2048 00:00:00	T 	28°33'59" 	23°17'04"	-00°08'25"	-03°02'05"	0.003
28/07/2048 00:00:00	X	01°07'31" 	06°18'24"	-05°55'07"	-00°00'00"	93.009
28/07/2048 00:00:00	Y	17°26'10" 	11°53'18"	-10°59'47"	00°00'37"	79.014

Ephemerides year 2048

29/07/2048 00:00:00	☉	06°34'25" ♈	18°37'29"	00°00'00"	00°57'20"	1.015
29/07/2048 00:00:00	☾	24°08'28" ♏	02°25'23"	05°10'18"	13°26'46"	0.003
29/07/2048 00:00:00	♁	15°04'39" ♈	17°59'55"	01°46'06"	01°58'01"	1.329
29/07/2048 00:00:00	♂	23°17'16" ♈	15°10'02"	01°29'55"	01°13'35"	1.629
29/07/2048 00:00:00	♂	07°41'45" ♏	-25°06'27"	0-03°34'07"	00°13'53"	0.608
29/07/2048 00:00:00	♃	21°47'00" ♏	22°39'03"	-00°31'41"	00°11'44"	5.730
29/07/2048 00:00:00	♄	10°55'33" ♏	-22°28'46"	00°30'19"	-00°03'45"	9.110
29/07/2048 00:00:00	♅	09°21'41" ♏	08°44'27"	00°44'15"	00°03'18"	19.139
29/07/2048 00:00:00	♆	23°39'19" ♏	17°00'37"	-01°43'29"	00°00'55"	30.099
29/07/2048 00:00:00	♇	07°35'39" ♏	-20°30'22"	-12°44'53"	-00°01'03"	40.250
29/07/2048 00:00:00	♈	26°55'21" ♏	-23°23'49"	00°00'00"	-00°05'19"	0.002
29/07/2048 00:00:00	♉	05°55'15" ♏	-12°03'20"	01°31'16"	00°02'42"	8.811
29/07/2048 00:00:00	♊	19°50'40" ♏	23°33'27"	00°30'53"	00°06'38"	0.003
29/07/2048 00:00:00	♋	26°55'21" ♏	-23°23'49"	00°00'00"	-00°05'19"	0.002
29/07/2048 00:00:00	♌	25°27'42" ♏	23°29'13"	00°07'56"	-03°06'01"	0.003
29/07/2048 00:00:00	♍	01°07'31" ♏	06°18'22"	-05°55'09"	-00°00'01"	92.992
29/07/2048 00:00:00	♎	17°26'47" ♏	11°53'15"	-10°59'53"	00°00'36"	79.001
30/07/2048 00:00:00	☉	07°31'46" ♈	18°22'59"	00°00'00"	00°57'21"	1.015
30/07/2048 00:00:00	☾	07°22'13" ♏	07°35'57"	05°05'29"	13°00'58"	0.003

Ephemerides year 2048

30/07/2048 00:00:00	♀	17°01'53" ♈	17°23'15"	01°44'34"	01°56'27"	1.324
30/07/2048 00:00:00	♀	24°30'51" ♈	14°45'43"	01°30'04"	01°13'35"	1.626
30/07/2048 00:00:00	♂	07°55'58" ♉	-25°08'31" ♁	-03°33'50"	00°14'33"	0.613
30/07/2048 00:00:00	♃	21°58'43" ♈	22°39'48"	-00°31'39"	00°11'40"	5.719
30/07/2048 00:00:00	♅	10°51'49" ♉	-22°29'11"	00°30'13"	-00°03'42"	9.118
30/07/2048 00:00:00	♁	09°25'00" ♈	08°43'11"	00°44'14"	00°03'19"	19.148
30/07/2048 00:00:00	♃	23°40'14" ♈	17°00'48"	-01°43'33"	00°00'53"	30.082
30/07/2048 00:00:00	♁	07°34'35" ♈	-20°30'58"	-12°45'06"	-00°01'04"	40.242
30/07/2048 00:00:00	♁	26°50'34" ♉	-23°23'42"	00°00'00"	-00°04'07"	0.002
30/07/2048 00:00:00	♁	05°58'01" ♈	-12°04'07"	01°31'24"	00°02'48"	8.829
30/07/2048 00:00:00	♁	19°57'19" ♈	23°33'04" ♁	00°30'00"	00°06'38"	0.003
30/07/2048 00:00:00	T♁	26°50'34" ♉	-23°23'42"	00°00'00"	-00°04'07"	0.002
30/07/2048 00:00:00	T♁	22°30'57" ♈	23°36'45" ♁	00°23'30"	-02°43'22"	0.003
30/07/2048 00:00:00	X	01°07'29" ♈	06°18'20"	-05°55'10"	-00°00'01"	92.974
30/07/2048 00:00:00	Y	17°27'23" ♈	11°53'12"	-10°59'59"	00°00'35"	78.988
31/07/2048 00:00:00	☉	08°29'08" ♈	18°08'12"	00°00'00"	00°57'22"	1.015
31/07/2048 00:00:00	☾	20°11'10" ♈	12°17'16"	04°45'20"	12°37'26"	0.003
31/07/2048 00:00:00	♀	18°57'32" ♈	16°45'30"	01°42'28"	01°54'51"	1.319
31/07/2048 00:00:00	♀	25°44'27" ♈	14°21'00"	01°30'09"	01°13'35"	1.622



Ephemerides year 2048

31/07/2048 00:00:00	♂	08°10'51" ♄	-25°10'38" ♁	-03°33'30"	00°15'12"	0.618
31/07/2048 00:00:00	♃	22°10'21" ♀	22°40'31"	-00°31'37"	00°11'35"	5.708
31/07/2048 00:00:00	♅	10°48'08" ♁	-22°29'35"	00°30'06"	-00°03'38"	9.125
31/07/2048 00:00:00	♁	09°28'21" ♃	08°41'54"	00°44'12"	00°03'21"	19.156
31/07/2048 00:00:00	♃	23°41'07" ♁	17°00'58"	-01°43'36"	00°00'51"	30.066
31/07/2048 00:00:00	♁	07°33'30" ♃	-20°31'34"	-12°45'18"	-00°01'04"	40.235
31/07/2048 00:00:00	♁	26°47'13" ♁	-23°23'37"	00°00'00"	-00°02'32"	0.002
31/07/2048 00:00:00	♃	06°00'53" ♃	-12°04'56"	01°31'32"	00°02'54"	8.846
31/07/2048 00:00:00	♁	20°03'57" ♀	23°32'42" ♁	00°29'07"	00°06'38"	0.003
31/07/2048 00:00:00	♁	26°47'13" ♁	-23°23'37"	00°00'00"	-00°02'32"	0.002
31/07/2048 00:00:00	♁	20°07'11" ♀	23°39'58" ♁	00°36'10"	-02°02'10"	0.003
31/07/2048 00:00:00	X	01°07'27" ♁	06°18'18"	-05°55'12"	-00°00'02"	92.957
31/07/2048 00:00:00	Y	17°27'59" ♀	11°53'10"	-11°00'05"	00°00'35"	78.974
01/08/2048 00:00:00	♁	09°26'31" ♁	17°53'06"	00°00'00"	00°57'23"	1.015
01/08/2048 00:00:00	♃	02°38'21" ♁	16°19'40"	04°12'06"	12°17'38"	0.003
01/08/2048 00:00:00	♁	20°51'35" ♁	16°06'49"	01°39'47"	01°53'14"	1.312
01/08/2048 00:00:00	♀	26°58'02" ♁	13°55'55"	01°30'11"	01°13'35"	1.618
01/08/2048 00:00:00	♂	08°26'22" ♄	-25°12'48" ♁	-03°33'09"	00°15'50"	0.623
01/08/2048 00:00:00	♃	22°21'54" ♀	22°41'13"	-00°31'35"	00°11'30"	5.697

Ephemerides year 2048

01/08/2048 00:00:00	♃	10°44'31" ♄	-22°29'59"	00°29'59"	-00°03'35"	9.133
01/08/2048 00:00:00	♅	09°31'43" ♃	08°40'37"	00°44'11"	00°03'22"	19.165
01/08/2048 00:00:00	♆	23°41'57" ♄	17°01'07"	-01°43'39"	00°00'50"	30.050
01/08/2048 00:00:00	♁	07°32'25" ♃	-20°32'10"	-12°45'29"	-00°01'05"	40.228
01/08/2048 00:00:00	♄	26°45'30" ♃	-23°23'34"	00°00'00"	-00°00'53"	0.002
01/08/2048 00:00:00	♅	06°03'50" ♃	-12°05'47"	01°31'40"	00°03'00"	8.863
01/08/2048 00:00:00	♁	20°10'36" ♃	23°32'19" ○	00°28'14"	00°06'38"	0.003
01/08/2048 00:00:00	♄	26°45'30" ♃	-23°23'34"	00°00'00"	-00°00'53"	0.002
01/08/2048 00:00:00	♁	18°28'08" ♃	23°40'43" ○	00°44'56"	-01°16'18"	0.003
01/08/2048 00:00:00	♃	01°07'24" ♄	06°18'15"	-05°55'14"	-00°00'03"	92.940
01/08/2048 00:00:00	♅	17°28'34" ♃	11°53'07"	-11°00'11"	00°00'34"	78.961
02/08/2048 00:00:00	♁	10°23'55" ♄	17°37'43"	00°00'00"	00°57'24"	1.015
02/08/2048 00:00:00	♃	14°48'01" ♄	19°35'09"	03°28'09"	12°02'31"	0.003
02/08/2048 00:00:00	♅	22°44'02" ♄	15°27'17"	01°36'35"	01°51'37"	1.306
02/08/2048 00:00:00	♆	28°11'37" ♄	13°30'27"	01°30'08"	01°13'35"	1.615
02/08/2048 00:00:00	♂	08°42'32" ♃	-25°15'00" ○	-03°32'46"	00°16'28"	0.628
02/08/2048 00:00:00	♁	22°33'22" ♃	22°41'54"	-00°31'33"	00°11'25"	5.686
02/08/2048 00:00:00	♃	10°40'57" ♄	-22°30'23"	00°29'53"	-00°03'31"	9.141
02/08/2048 00:00:00	♅	09°35'06" ♃	08°39'19"	00°44'10"	00°03'24"	19.173

Ephemerides year 2048

02/08/2048 00:00:00	♁	23°42'47"	♄	17°01'16"	-01°43'42"	00°00'48"	30.034
02/08/2048 00:00:00	♁	07°31'19"	♃	-20°32'45"	-12°45'41"	-00°01'06"	40.221
02/08/2048 00:00:00	♁	26°45'20"	♂	-23°23'34"	00°00'00"	00°00'29"	0.002
02/08/2048 00:00:00	♁	06°06'54"	♃	-12°06'39"	01°31'48"	00°03'06"	8.880
02/08/2048 00:00:00	♁	20°17'15"	♁	23°31'55"	♁ 00°27'21"	00°06'38"	0.003
02/08/2048 00:00:00	T♁	26°45'20"	♂	-23°23'34"	00°00'00"	00°00'29"	0.002
02/08/2048 00:00:00	T♁	17°32'04"	♁	23°40'38"	♁ 00°49'56"	-00°37'43"	0.003
02/08/2048 00:00:00	X	01°07'21"	♄	06°18'12"	-05°55'16"	-00°00'03"	92.923
02/08/2048 00:00:00	Y	17°29'09"	♁	11°53'03"	-11°00'17"	00°00'34"	78.947
03/08/2048 00:00:00	♁	11°21'20"	♁	17°22'03"	00°00'00"	00°57'25"	1.015
03/08/2048 00:00:00	♁	26°45'05"	♄	21°57'00"	02°35'47"	11°52'29"	0.003
03/08/2048 00:00:00	♁	24°34'51"	♁	14°47'01"	01°32'52"	01°50'00"	1.298
03/08/2048 00:00:00	♁	29°25'12"	♁	13°04'37"	01°30'01"	01°13'34"	1.611
03/08/2048 00:00:00	♁	08°59'19"	♂	-25°17'16"	♁ -03°32'21"	00°17'05"	0.633
03/08/2048 00:00:00	♁	22°44'46"	♁	22°42'34"	-00°31'31"	00°11'20"	5.675
03/08/2048 00:00:00	♁	10°37'27"	♄	-22°30'46"	00°29'46"	-00°03'28"	9.149
03/08/2048 00:00:00	♁	09°38'31"	♃	08°38'01"	00°44'09"	00°03'25"	19.181
03/08/2048 00:00:00	♁	23°43'34"	♄	17°01'24"	-01°43'46"	00°00'46"	30.017
03/08/2048 00:00:00	♁	07°30'13"	♃	-20°33'21"	-12°45'52"	-00°01'06"	40.214

Ephemerides year 2048

03/08/2048 00:00:00	♁	26°46'17" ♀	-23°23'35"	00°00'00"	00°01'18"	0.002
03/08/2048 00:00:00	♆	06°10'04" ♃	-12°07'34"	01°31'56"	00°03'12"	8.897
03/08/2048 00:00:00	♁	20°23'53" ♀	23°31'31" ○	00°26'28"	00°06'38"	0.003
03/08/2048 00:00:00	♁	26°46'17" ♀	-23°23'35"	00°00'00"	00°01'18"	0.002
03/08/2048 00:00:00	♁	17°08'01" ♀	23°40'33" ○	00°52'09"	-00°12'59"	0.003
03/08/2048 00:00:00	X	01°07'17" ♀	06°18'09"	-05°55'17"	-00°00'04"	92.906
03/08/2048 00:00:00	Y	17°29'43" ♀	11°53'00"	-11°00'23"	00°00'33"	78.933
04/08/2048 00:00:00	♁	12°18'47" ♀	17°06'06"	00°00'00"	00°57'27"	1.015
04/08/2048 00:00:00	♁	08°34'43" ♀	23°19'45"	01°37'17"	11°47'36"	0.003
04/08/2048 00:00:00	♁	26°24'03" ♀	14°06'09"	01°28'41"	01°48'23"	1.290
04/08/2048 00:00:00	♁	00°38'47" ♃	12°38'27"	01°29'49"	01°13'34"	1.608
04/08/2048 00:00:00	♁	09°16'43" ♀	-25°19'33" ○	-03°31'55"	00°17'42"	0.638
04/08/2048 00:00:00	♁	22°56'04" ♀	22°43'12"	-00°31'29"	00°11'15"	5.663
04/08/2048 00:00:00	♁	10°34'01" ♀	-22°31'10"	00°29'39"	-00°03'24"	9.158
04/08/2048 00:00:00	♁	09°41'57" ♃	08°36'42"	00°44'08"	00°03'26"	19.188
04/08/2048 00:00:00	♁	23°44'19" ♀	17°01'32"	-01°43'49"	00°00'44"	30.001
04/08/2048 00:00:00	♁	07°29'06" ♀	-20°33'57"	-12°46'03"	-00°01'07"	40.208
04/08/2048 00:00:00	♁	26°47'42" ♀	-23°23'38"	00°00'00"	00°01'24"	0.002
04/08/2048 00:00:00	♁	06°13'20" ♃	-12°08'30"	01°32'04"	00°03'18"	8.915

Ephemerides year 2048

04/08/2048 00:00:00	☾	20°30'32" ♀	23°31'07" ○	00°25'36"	00°06'38"	0.003
04/08/2048 00:00:00	♄	26°47'42" ♂	-23°23'38"	00°00'00"	00°01'24"	0.002
04/08/2048 00:00:00	♄	17°00'56" ♀	23°40'34" ○	00°52'52"	-00°03'37"	0.003
04/08/2048 00:00:00	X	01°07'12" ♂	06°18'06"	-05°55'19"	-00°00'04"	92.890
04/08/2048 00:00:00	Y	17°30'16" ♀	11°52'57"	-11°00'29"	00°00'33"	78.919
05/08/2048 00:00:00	☉	13°16'14" ♂	16°49'52"	00°00'00"	00°57'28"	1.014
05/08/2048 00:00:00	☾	20°21'55" ♀	23°39'47" ○	00°34'54"	11°47'34"	0.003
05/08/2048 00:00:00	♁	28°11'38" ♂	13°24'44"	01°24'02"	01°46'46"	1.282
05/08/2048 00:00:00	♁	01°52'22" ♂	12°11'57"	01°29'34"	01°13'34"	1.604
05/08/2048 00:00:00	♂	09°34'43" ♂	-25°21'52" ○	-03°31'27"	00°18'18"	0.643
05/08/2048 00:00:00	♃	23°07'17" ♀	22°43'49"	-00°31'28"	00°11'10"	5.652
05/08/2048 00:00:00	♃	10°30'38" ♂	-22°31'32"	00°29'32"	-00°03'20"	9.167
05/08/2048 00:00:00	♃	09°45'25" ♂	08°35'23"	00°44'07"	00°03'28"	19.196
05/08/2048 00:00:00	♁	23°45'03" ♂	17°01'40"	-01°43'52"	00°00'42"	29.984
05/08/2048 00:00:00	♃	07°27'58" ♂	-20°34'33"	-12°46'14"	-00°01'08"	40.202
05/08/2048 00:00:00	♁	26°48'49" ♂	-23°23'39"	00°00'00"	00°00'42"	0.002
05/08/2048 00:00:00	♁	06°16'41" ♂	-12°09'29"	01°32'13"	00°03'24"	8.932
05/08/2048 00:00:00	☾	20°37'11" ♀	23°30'43" ○	00°24'43"	00°06'38"	0.003
05/08/2048 00:00:00	♄	26°48'49" ♂	-23°23'39"	00°00'00"	00°00'42"	0.002

Ephemerides year 2048

05/08/2048 00:00:00	T♄	16°56'31" ♀	23°40'33" ○	00°53'17"	-00°06'47"	0.003
05/08/2048 00:00:00	X	01°07'07" ♂	06°18'03"	-05°55'21"	-00°00'05"	92.873
05/08/2048 00:00:00	Y	17°30'49" ♀	11°52'53"	-11°00'36"	00°00'32"	78.905
06/08/2048 00:00:00	☉	14°13'43" ♀	16°33'22"	-00°00'00"	00°57'29"	1.014
06/08/2048 00:00:00	☾	02°11'19" ♀	22°55'49"	-00°29'03"	11°51'52"	0.003
06/08/2048 00:00:00	♁	29°57'36" ♀	12°42'53"	01°18'58"	01°45'10"	1.273
06/08/2048 00:00:00	♂	03°05'56" ♀	11°45'08"	01°29'14"	01°13'34"	1.600
06/08/2048 00:00:00	♂	09°53'19" ♂	-25°24'13" ○	-03°30'57"	00°18'53"	0.648
06/08/2048 00:00:00	♂	23°18'25" ♀	22°44'25"	-00°31'26"	00°11'05"	5.640
06/08/2048 00:00:00	♃	10°27'19" ♂	-22°31'55"	00°29'26"	-00°03'16"	9.176
06/08/2048 00:00:00	♃	09°48'53" ♀	08°34'04"	00°44'06"	00°03'29"	19.203
06/08/2048 00:00:00	♃	23°45'45" ♂	17°01'47"	-01°43'56"	00°00'40"	29.967
06/08/2048 00:00:00	♃	07°26'49" ♀	-20°35'08"	-12°46'24"	-00°01'08"	40.196
06/08/2048 00:00:00	♃	26°48'52" ♂	-23°23'39"	00°00'00"	-00°00'43"	0.002
06/08/2048 00:00:00	♃	06°20'09" ♀	-12°10'29"	01°32'21"	00°03'30"	8.949
06/08/2048 00:00:00	♃	20°43'50" ♀	23°30'18" ○	00°23'50"	00°06'38"	0.003
06/08/2048 00:00:00	T♃	26°48'52" ♂	-23°23'39"	00°00'00"	-00°00'43"	0.002
06/08/2048 00:00:00	T♄	16°45'32" ♀	23°40'20" ○	00°54'09"	-00°15'10"	0.003
06/08/2048 00:00:00	X	01°07'01" ♂	06°17'59"	-05°55'22"	-00°00'06"	92.856

Ephemerides year 2048

06/08/2048 00:00:00	Y	17°31'21" ♀	11°52'49"	-11°00'42"	00°00'31"	78.891
07/08/2048 00:00:00	☉	15°11'13" ♀	16°16'36"	-00°00'00"	00°57'30"	1.014
07/08/2048 00:00:00	☾	14°06'53" ♀	21°09'27"	-01°32'09"	11°59'49"	0.003
07/08/2048 00:00:00	♁	01°42'00" ♀	12°00'40"	01°13'30"	01°43'35"	1.264
07/08/2048 00:00:00	♂	04°19'30" ♀	11°18'00"	01°28'50"	01°13'33"	1.596
07/08/2048 00:00:00	♂	10°12'31" ♀	-25°26'35"	0-03°30'26"	00°19'28"	0.653
07/08/2048 00:00:00	♃	23°29'28" ♀	22°44'59"	-00°31'24"	00°11'00"	5.628
07/08/2048 00:00:00	♄	10°24'05" ♀	-22°32'17"	00°29'19"	-00°03'12"	9.185
07/08/2048 00:00:00	♅	09°52'23" ♀	08°32'43"	00°44'05"	00°03'30"	19.210
07/08/2048 00:00:00	♆	23°46'25" ♀	17°01'53"	-01°43'59"	00°00'38"	29.951
07/08/2048 00:00:00	♇	07°25'40" ♀	-20°35'44"	-12°46'34"	-00°01'09"	40.190
07/08/2048 00:00:00	♈	26°47'12" ♀	-23°23'37"	00°00'00"	-00°02'40"	0.002
07/08/2048 00:00:00	♉	06°23'42" ♀	-12°11'32"	01°32'29"	00°03'36"	8.966
07/08/2048 00:00:00	♊	20°50'28" ♀	23°29'53"	00°22'57"	00°06'38"	0.003
07/08/2048 00:00:00	♋	26°47'12" ♀	-23°23'37"	00°00'00"	-00°02'40"	0.002
07/08/2048 00:00:00	♌	16°28'18" ♀	23°39'51"	00°55'24"	-00°17'02"	0.003
07/08/2048 00:00:00	X	01°06'55" ♀	06°17'56"	-05°55'24"	-00°00'06"	92.839
07/08/2048 00:00:00	Y	17°31'53" ♀	11°52'46"	-11°00'49"	00°00'31"	78.876
08/08/2048 00:00:00	☉	16°08'44" ♀	15°59'34"	-00°00'00"	00°57'31"	1.014

Ephemerides year 2048

08/08/2048 00:00:00	♃	26°11'54" ♃	18°25'10"	-02°31'47"	12°10'36"	0.003
08/08/2048 00:00:00	♆	03°24'47" ♃	11°18'11"	01°07'39"	01°42'00"	1.254
08/08/2048 00:00:00	♀	05°33'04" ♃	10°50'35"	01°28'22"	01°13'33"	1.592
08/08/2048 00:00:00	♂	10°32'16" ♂	-25°28'58"	0-03°29'54"	00°20'02"	0.658
08/08/2048 00:00:00	♃	23°40'26" ♃	22°45'32"	-00°31'22"	00°10'54"	5.616
08/08/2048 00:00:00	♄	10°20'54" ♂	-22°32'38"	00°29'12"	-00°03'08"	9.195
08/08/2048 00:00:00	♃	09°55'54" ♃	08°31'23"	00°44'04"	00°03'31"	19.217
08/08/2048 00:00:00	♃	23°47'02" ♂	17°01'59"	-01°44'02"	00°00'36"	29.934
08/08/2048 00:00:00	♃	07°24'30" ♂	-20°36'20"	-12°46'44"	-00°01'10"	40.185
08/08/2048 00:00:00	♁	26°43'27" ♂	-23°23'31"	00°00'00"	-00°04'51"	0.002
08/08/2048 00:00:00	♃	06°27'21" ♃	-12°12'36"	01°32'37"	00°03'41"	8.983
08/08/2048 00:00:00	♃	20°57'07" ♃	23°29'28"	00°22'04"	00°06'38"	0.003
08/08/2048 00:00:00	♁	26°43'27" ♂	-23°23'31"	00°00'00"	-00°04'51"	0.002
08/08/2048 00:00:00	♃	16°18'12" ♃	23°39'14"	00°55'49"	00°01'12"	0.003
08/08/2048 00:00:00	X	01°06'48" ♂	06°17'52"	-05°55'26"	-00°00'07"	92.823
08/08/2048 00:00:00	Y	17°32'24" ♃	11°52'42"	-11°00'55"	00°00'30"	78.862
09/08/2048 00:00:00	♁	17°06'16" ♁	15°42'16"	-00°00'00"	00°57'32"	1.014
09/08/2048 00:00:00	♃	08°28'43" ♁	14°50'01"	-03°25'13"	12°23'16"	0.003
09/08/2048 00:00:00	♆	05°06'01" ♃	10°35'29"	01°01'26"	01°40'26"	1.244



Ephemerides year 2048

09/08/2048 00:00:00	♀	06°46'37" ♍	10°22'52"	01°27'50"	01°13'32"	1.588
09/08/2048 00:00:00	♂	10°52'36" ♏	-25°31'22" ♁	-03°29'20"	00°20'36"	0.663
09/08/2048 00:00:00	♃	23°51'17" ♌	22°46'05"	-00°31'21"	00°10'48"	5.604
09/08/2048 00:00:00	♅	10°17'47" ♍	-22°33'00"	00°29'05"	-00°03'04"	9.204
09/08/2048 00:00:00	♁	09°59'26" ♍	08°30'02"	00°44'03"	00°03'32"	19.223
09/08/2048 00:00:00	♃	23°47'38" ♏	17°02'05"	-01°44'06"	00°00'34"	29.917
09/08/2048 00:00:00	♁	07°23'20" ♏	-20°36'55"	-12°46'53"	-00°01'10"	40.180
09/08/2048 00:00:00	♁	26°37'32" ♏	-23°23'22"	00°00'00"	-00°06'55"	0.002
09/08/2048 00:00:00	♁	06°31'05" ♍	-12°13'42"	01°32'45"	00°03'47"	9.000
09/08/2048 00:00:00	♁	21°03'46" ♌	23°29'02" ♁	00°21'11"	00°06'38"	0.003
09/08/2048 00:00:00	T♁	26°37'32" ♏	-23°23'22"	00°00'00"	-00°06'55"	0.002
09/08/2048 00:00:00	T♁	16°40'33" ♌	23°38'53" ♁	00°53'12"	00°48'32"	0.003
09/08/2048 00:00:00	X	01°06'40" ♏	06°17'47"	-05°55'27"	-00°00'08"	92.806
09/08/2048 00:00:00	Y	17°32'54" ♌	11°52'38"	-11°01'02"	00°00'29"	78.847
10/08/2048 00:00:00	♁	18°03'50" ♏	15°24'44"	-00°00'00"	00°57'33"	1.014
10/08/2048 00:00:00	♃	20°58'47" ♏	10°33'06"	-04°09'42"	12°36'57"	0.003
10/08/2048 00:00:00	♁	06°45'40" ♍	09°52'39"	00°54'54"	01°38'52"	1.234
10/08/2048 00:00:00	♀	08°00'09" ♍	09°54'53"	01°27'14"	01°13'32"	1.584
10/08/2048 00:00:00	♂	11°13'29" ♏	-25°33'46" ♁	-03°28'45"	00°21'09"	0.668

Ephemerides year 2048

10/08/2048 00:00:00	♃	24°02'03" ♀	22°46'36"	-00°31'19"	00°10'43"	5.592
10/08/2048 00:00:00	♅	10°14'45" ♂	-22°33'21"	00°28'58"	-00°03'00"	9.214
10/08/2048 00:00:00	♁	10°02'59" ♀	08°28'41"	00°44'03"	00°03'33"	19.229
10/08/2048 00:00:00	♆	23°48'12" ♂	17°02'10"	-01°44'09"	00°00'32"	29.901
10/08/2048 00:00:00	♁	07°22'09" ♀	-20°37'31"	-12°47'02"	-00°01'11"	40.175
10/08/2048 00:00:00	♁	26°29'45" ♂	-23°23'10"	00°00'00"	-00°08'30"	0.002
10/08/2048 00:00:00	♁	06°34'56" ♀	-12°14'49"	01°32'53"	00°03'52"	9.017
10/08/2048 00:00:00	♁	21°10'25" ♀	23°28'36" ○	00°20'18"	00°06'38"	0.003
10/08/2048 00:00:00	♁	26°29'45" ♂	-23°23'10"	00°00'00"	-00°08'30"	0.002
10/08/2048 00:00:00	♁	18°04'19" ♀	23°38'41" ○	00°45'01"	02°02'29"	0.003
10/08/2048 00:00:00	X	01°06'32" ♂	06°17'43"	-05°55'29"	-00°00'08"	92.790
10/08/2048 00:00:00	Y	17°33'24" ♀	11°52'33"	-11°01'09"	00°00'29"	78.832
11/08/2048 00:00:00	♁	19°01'24" ♂	15°06'57"	-00°00'00"	00°57'34"	1.014
11/08/2048 00:00:00	♁	03°42'41" ♀	05°45'00"	-04°42'36"	12°50'48"	0.003
11/08/2048 00:00:00	♁	08°23'45" ♀	09°09'44"	00°48'03"	01°37'18"	1.223
11/08/2048 00:00:00	♁	09°13'42" ♀	09°26'39"	01°26'33"	01°13'31"	1.580
11/08/2048 00:00:00	♁	11°34'54" ♂	-25°36'10" ○	-03°28'09"	00°21'41"	0.673
11/08/2048 00:00:00	♃	24°12'44" ♀	22°47'06"	-00°31'18"	00°10'37"	5.580
11/08/2048 00:00:00	♅	10°11'47" ♂	-22°33'41"	00°28'51"	-00°02'55"	9.225

Ephemerides year 2048

11/08/2048 00:00:00	♃	10°06'33" ♉	08°27'19"	00°44'02"	00°03'34"	19.235
11/08/2048 00:00:00	♃	23°48'44" ♉	17°02'15"	-01°44'13"	00°00'30"	29.884
11/08/2048 00:00:00	♃	07°20'57" ♉	-20°38'06"	-12°47'11"	-00°01'11"	40.170
11/08/2048 00:00:00	♃	26°20'46" ♉	-23°22'56"	00°00'00"	-00°09'19"	0.002
11/08/2048 00:00:00	♃	06°38'51" ♉	-12°15'59"	01°33'01"	00°03'58"	9.034
11/08/2048 00:00:00	♃	21°17'03" ♉	23°28'09" ○	00°19'25"	00°06'38"	0.003
11/08/2048 00:00:00	♃	26°20'46" ♉	-23°22'56"	00°00'00"	-00°09'19"	0.002
11/08/2048 00:00:00	♃	20°49'31" ♉	23°36'22" ○	00°29'31"	03°28'07"	0.003
11/08/2048 00:00:00	♃	01°06'22" ♉	06°17'39"	-05°55'31"	-00°00'09"	92.773
11/08/2048 00:00:00	♃	17°33'53" ♉	11°52'29"	-11°01'16"	00°00'28"	78.817
12/08/2048 00:00:00	♃	19°58'59" ♉	14°48'55"	-00°00'00"	00°57'35"	1.013
12/08/2048 00:00:00	♃	16°40'16" ♉	00°37'33"	-05°01'38"	13°04'15"	0.003
12/08/2048 00:00:00	♃	10°00'18" ♉	08°26'48"	00°40'55"	01°35'45"	1.212
12/08/2048 00:00:00	♃	10°27'13" ♉	08°58'10"	01°25'49"	01°13'31"	1.576
12/08/2048 00:00:00	♃	11°56'52" ♉	-25°38'35" ○	-03°27'31"	00°22'13"	0.678
12/08/2048 00:00:00	♃	24°23'18" ♉	22°47'34"	-00°31'16"	00°10'31"	5.567
12/08/2048 00:00:00	♃	10°08'53" ♉	-22°34'02"	00°28'44"	-00°02'51"	9.235
12/08/2048 00:00:00	♃	10°10'08" ♉	08°25'57"	00°44'01"	00°03'35"	19.241
12/08/2048 00:00:00	♃	23°49'14" ♉	17°02'19"	-01°44'16"	00°00'28"	29.867

Ephemerides year 2048

12/08/2048 00:00:00	♁	07°19'45"	♋r	-20°38'42"	-12°47'19"	-00°01'12"	40.166
12/08/2048 00:00:00	♁	26°11'26"	♋r	-23°22'40"	00°00'00"	-00°09'10"	0.002
12/08/2048 00:00:00	♁	06°42'53"	♎	-12°17'10"	01°33'09"	00°04'04"	9.051
12/08/2048 00:00:00	♁	21°23'42"	♁	23°27'43"	♁ 00°18'32"	00°06'38"	0.003
12/08/2048 00:00:00	♁	26°11'26"	♋r	-23°22'40"	00°00'00"	-00°09'10"	0.002
12/08/2048 00:00:00	♁	24°57'12"	♁	23°26'48"	♁ 00°06'37"	04°43'40"	0.003
12/08/2048 00:00:00	X	01°06'13"	♁r	06°17'34"	-05°55'32"	-00°00'10"	92.757
12/08/2048 00:00:00	Y	17°34'21"	♁	11°52'25"	-11°01'23"	00°00'27"	78.802
13/08/2048 00:00:00	♁	20°56'36"	♁	14°30'39"	-00°00'00"	00°57'36"	1.013
13/08/2048 00:00:00	♁	29°50'55"	♎	-04°36'17"	-05°05'06"	13°16'56"	0.003
13/08/2048 00:00:00	♁	11°35'17"	♎	07°43'55"	00°33'30"	01°34'12"	1.201
13/08/2048 00:00:00	♁	11°40'44"	♎	08°29'26"	01°25'00"	01°13'30"	1.572
13/08/2048 00:00:00	♁	12°19'21"	♋r	-25°40'58"	♁ -03°26'52"	00°22'44"	0.683
13/08/2048 00:00:00	♁	24°33'46"	♁	22°48'02"	-00°31'15"	00°10'25"	5.555
13/08/2048 00:00:00	♁	10°06'04"	♋r	-22°34'21"	00°28'37"	-00°02'46"	9.246
13/08/2048 00:00:00	♁	10°13'44"	♎	08°24'35"	00°44'00"	00°03'36"	19.246
13/08/2048 00:00:00	♁	23°49'42"	♁	17°02'22"	-01°44'19"	00°00'26"	29.850
13/08/2048 00:00:00	♁	07°18'32"	♋r	-20°39'17"	-12°47'27"	-00°01'12"	40.162
13/08/2048 00:00:00	♁	26°02'44"	♋r	-23°22'25"	00°00'00"	-00°08'04"	0.002


































Ephemerides year 2048

13/08/2048 00:00:00	♄	06°46'59" ♎	-12°18'23"	01°33'17"	00°04'09"	9.067
13/08/2048 00:00:00	♁	21°30'20" ♉	23°27'15" ♁	00°17'39"	00°06'38"	0.003
13/08/2048 00:00:00	♁♁	26°02'44" ♋	-23°22'25"	00°00'00"	-00°08'04"	0.002
13/08/2048 00:00:00	♁♁	00°06'14" ♉	23°04'16"	-00°21'41"	05°27'32"	0.003
13/08/2048 00:00:00	X	01°06'02" ♄	06°17'29"	-05°55'34"	-00°00'10"	92.741
13/08/2048 00:00:00	Y	17°34'49" ♉	11°52'20"	-11°01'30"	00°00'27"	78.787
14/08/2048 00:00:00	♁	21°54'13" ♋	14°12'10"	-00°00'00"	00°57'37"	1.013
14/08/2048 00:00:00	♁	13°13'51" ♉	-09°42'15"	-04°52'07"	13°28'48"	0.003
14/08/2048 00:00:00	♁	13°08'43" ♎	07°01'08"	00°25'50"	01°32'39"	1.189
14/08/2048 00:00:00	♁	12°54'15" ♎	08°00'30"	01°24'07"	01°13'30"	1.568
14/08/2048 00:00:00	♁	12°42'21" ♋	-25°43'21" ♁	-03°26'12"	00°23'15"	0.689
14/08/2048 00:00:00	♁	24°44'09" ♉	22°48'28"	-00°31'13"	00°10'19"	5.542
14/08/2048 00:00:00	♁	10°03'20" ♋	-22°34'41"	00°28'30"	-00°02'42"	9.257
14/08/2048 00:00:00	♁	10°17'21" ♎	08°23'12"	00°44'00"	00°03'37"	19.252
14/08/2048 00:00:00	♁	23°50'08" ♄	17°02'25"	-01°44'23"	00°00'24"	29.833
14/08/2048 00:00:00	♁	07°17'19" ♋	-20°39'52"	-12°47'35"	-00°01'13"	40.158
14/08/2048 00:00:00	♁	25°55'33" ♋	-23°22'12"	00°00'00"	-00°06'10"	0.002
14/08/2048 00:00:00	♁	06°51'12" ♎	-12°19'37"	01°33'25"	00°04'14"	9.084
14/08/2048 00:00:00	♁	21°36'59" ♉	23°26'48" ♁	00°16'46"	00°06'38"	0.003

Ephemerides year 2048

14/08/2048 00:00:00	T♄	25°55'33" ♏	-23°22'12"	00°00'00"	-00°06'10"	0.002
14/08/2048 00:00:00	T♄	05°36'27" ♏	22°27'18"	-00°51'34"	05°24'16"	0.003
14/08/2048 00:00:00	X	01°05'51" ♏	06°17'23"	-05°55'35"	-00°00'11"	92.724
14/08/2048 00:00:00	Y	17°35'15" ♏	11°52'15"	-11°01'37"	00°00'26"	78.771
15/08/2048 00:00:00	♁	22°51'51" ♏	13°53'27"	-00°00'00"	00°57'38"	1.013
15/08/2048 00:00:00	♂	26°48'19" ♏	-14°24'33"	-04°22'39"	13°40'01"	0.003
15/08/2048 00:00:00	♀	14°40'36" ♏	06°18'29"	00°17'56"	01°31'06"	1.178
15/08/2048 00:00:00	♀	14°07'45" ♏	07°31'20"	01°23'10"	01°13'29"	1.564
15/08/2048 00:00:00	♂	13°05'51" ♏	-25°45'43"	0-03°25'31"	00°23'44"	0.694
15/08/2048 00:00:00	♂	24°54'25" ♏	22°48'54"	-00°31'12"	00°10'13"	5.529
15/08/2048 00:00:00	♃	10°00'40" ♏	-22°35'00"	00°28'23"	-00°02'37"	9.268
15/08/2048 00:00:00	♃	10°20'59" ♏	08°21'49"	00°43'59"	00°03'38"	19.257
15/08/2048 00:00:00	♃	23°50'32" ♏	17°02'28"	-01°44'26"	00°00'23"	29.816
15/08/2048 00:00:00	♃	07°16'06" ♏	-20°40'27"	-12°47'43"	-00°01'13"	40.155
15/08/2048 00:00:00	♁	25°50'30" ♏	-23°22'02"	00°00'00"	-00°03'53"	0.002
15/08/2048 00:00:00	♁	06°55'29" ♏	-12°20'53"	01°33'33"	00°04'20"	9.101
15/08/2048 00:00:00	♁	21°43'38" ♏	23°26'20"	00°15'53"	00°06'38"	0.003
15/08/2048 00:00:00	T♄	25°50'30" ♏	-23°22'02"	00°00'00"	-00°03'53"	0.002
15/08/2048 00:00:00	T♄	10°37'35" ♏	21°42'23"	-01°18'18"	04°29'55"	0.003

Ephemerides year 2048

15/08/2048 00:00:00	X	01°05'40" 	06°17'18"	-05°55'37"	-00°00'11"	92.708
15/08/2048 00:00:00	Y	17°35'42" 	11°52'10"	-11°01'44"	00°00'25"	78.756
16/08/2048 00:00:00		23°49'31" 	13°34'31"	-00°00'00"	00°57'39"	1.013
16/08/2048 00:00:00		10°33'47" 	-18°25'50"	-03°37'44"	13°50'49"	0.003
16/08/2048 00:00:00		16°10'56" 	05°36'03"	00°09'49"	01°29'33"	1.166
16/08/2048 00:00:00		15°21'14" 	07°01'59"	01°22'08"	01°13'28"	1.559
16/08/2048 00:00:00		13°29'51" 	-25°48'03" 	-03°24'48"	00°24'14"	0.699
16/08/2048 00:00:00		25°04'35" 	22°49'18"	-00°31'10"	00°10'06"	5.516
16/08/2048 00:00:00		09°58'05" 	-22°35'19"	00°28'16"	-00°02'32"	9.279
16/08/2048 00:00:00		10°24'38" 	08°20'26"	00°43'58"	00°03'39"	19.261
16/08/2048 00:00:00		23°50'54" 	17°02'30"	-01°44'30"	00°00'21"	29.800
16/08/2048 00:00:00		07°14'52" 	-20°41'02"	-12°47'50"	-00°01'13"	40.152
16/08/2048 00:00:00		25°47'45" 	-23°21'57"	00°00'00"	-00°01'40"	0.002
16/08/2048 00:00:00		06°59'52" 	-12°22'11"	01°33'41"	00°04'25"	9.117
16/08/2048 00:00:00		21°50'16" 	23°25'52"	00°15'00"	00°06'38"	0.003
16/08/2048 00:00:00	TΩ	25°47'45" 	-23°21'57"	00°00'00"	-00°01'40"	0.002
16/08/2048 00:00:00	T♄	14°22'58" 	21°02'05"	-01°37'51"	02°56'05"	0.003
16/08/2048 00:00:00	X	01°05'28" 	06°17'13"	-05°55'38"	-00°00'12"	92.693
16/08/2048 00:00:00	Y	17°36'07" 	11°52'05"	-11°01'51"	00°00'25"	78.740

Ephemerides year 2048

17/08/2048 00:00:00	☉	24°47'11" ♏	13°15'22"	-00°00'00"	00°57'40"	1.012
17/08/2048 00:00:00	☾	24°29'52" ♎	-21°27'51"	-02°39'24"	14°01'16"	0.002
17/08/2048 00:00:00	♀	17°39'42" ♎	04°53'52"	00°01'30"	01°27'58"	1.154
17/08/2048 00:00:00	♀	16°34'42" ♎	06°32'27"	01°21'03"	01°13'28"	1.555
17/08/2048 00:00:00	♂	13°54'19" ♏	-25°50'22"	0-03°24'05"	00°24'42"	0.705
17/08/2048 00:00:00	♃	25°14'39" ♀	22°49'42"	-00°31'09"	00°10'00"	5.503
17/08/2048 00:00:00	♅	09°55'35" ♏	-22°35'37"	00°28'08"	-00°02'27"	9.291
17/08/2048 00:00:00	♁	10°28'17" ♎	08°19'02"	00°43'58"	00°03'39"	19.266
17/08/2048 00:00:00	♃	23°51'14" ♏	17°02'31"	-01°44'33"	00°00'19"	29.783
17/08/2048 00:00:00	♁	07°13'38" ♏	-20°41'36"	-12°47'57"	-00°01'14"	40.149
17/08/2048 00:00:00	♁	25°46'58" ♏	-23°21'56"	00°00'00"	-00°00'01"	0.002
17/08/2048 00:00:00	♁	07°04'21" ♎	-12°23'31"	01°33'49"	00°04'31"	9.134
17/08/2048 00:00:00	♁	21°56'55" ♀	23°25'23"	00°14'07"	00°06'38"	0.003
17/08/2048 00:00:00	♁	25°46'58" ♏	-23°21'56"	00°00'00"	-00°00'01"	0.002
17/08/2048 00:00:00	♁	16°25'37" ♎	20°37'54"	-01°48'15"	01°10'05"	0.003
17/08/2048 00:00:00	X	01°05'15" ♏	06°17'07"	-05°55'40"	-00°00'12"	92.677
17/08/2048 00:00:00	Y	17°36'32" ♀	11°52'00"	-11°01'59"	00°00'24"	78.724
18/08/2048 00:00:00	☉	25°44'53" ♏	12°56'01"	-00°00'00"	00°57'41"	1.012
18/08/2048 00:00:00	☾	08°36'09" ♏	-23°13'30"	-01°30'43"	14°11'09"	0.002



Ephemerides year 2048

18/08/2048 00:00:00	♀	19°06'54" ♍	04°11'58"	-00°06'59"	01°26'23"	1.141
18/08/2048 00:00:00	♀	17°48'10" ♍	06°02'44"	01°19'54"	01°13'27"	1.551
18/08/2048 00:00:00	♂	14°19'16" ♏	-25°52'39"	0-03°23'21"	00°25'10"	0.710
18/08/2048 00:00:00	♃	25°24'36" ♌	22°50'04"	-00°31'08"	00°09'54"	5.490
18/08/2048 00:00:00	♅	09°53'10" ♌	-22°35'55"	00°28'01"	-00°02'22"	9.303
18/08/2048 00:00:00	♁	10°31'57" ♍	08°17'38"	00°43'57"	00°03'40"	19.270
18/08/2048 00:00:00	♃	23°51'32" ♏	17°02'33"	-01°44'37"	00°00'17"	29.766
18/08/2048 00:00:00	♁	07°12'24" ♏	-20°42'11"	-12°48'03"	-00°01'14"	40.146
18/08/2048 00:00:00	♁	25°47'23" ♏	-23°21'56"	00°00'00"	00°00'40"	0.002
18/08/2048 00:00:00	♁	07°08'54" ♍	-12°24'52"	01°33'57"	00°04'36"	9.150
18/08/2048 00:00:00	♁	22°03'34" ♌	23°24'54"	00°13'14"	00°06'38"	0.003
18/08/2048 00:00:00	T♁	25°47'23" ♏	-23°21'56"	00°00'00"	00°00'40"	0.002
18/08/2048 00:00:00	T♁	16°50'38" ♏	20°32'51"	-01°50'16"	-00°13'51"	0.003
18/08/2048 00:00:00	X	01°05'02" ♏	06°17'01"	-05°55'41"	-00°00'13"	92.661
18/08/2048 00:00:00	Y	17°36'56" ♌	11°51'55"	-11°02'06"	00°00'23"	78.708
19/08/2048 00:00:00	♁	26°42'35" ♏	12°36'27"	00°00'00"	00°57'42"	1.012
19/08/2048 00:00:00	♁	22°51'47" ♏	-23°30'07"	0-00°15'42"	14°19'48"	0.002
19/08/2048 00:00:00	♀	20°32'29" ♍	03°30'25"	-00°15'39"	01°24'47"	1.129
19/08/2048 00:00:00	♀	19°01'37" ♍	05°32'51"	01°18'41"	01°13'26"	1.546

Ephemerides year 2048

19/08/2048 00:00:00	♂	14°44'40" ♄	-25°54'53" ♁	-03°22'35"	00°25'37"	0.715
19/08/2048 00:00:00	♃	25°34'27" ♀	22°50'25"	-00°31'06"	00°09'47"	5.477
19/08/2048 00:00:00	♅	09°50'50" ♁	-22°36'12"	00°27'54"	-00°02'17"	9.315
19/08/2048 00:00:00	♁	10°35'38" ♃	08°16'14"	00°43'57"	00°03'41"	19.274
19/08/2048 00:00:00	♃	23°51'49" ♁	17°02'33"	-01°44'40"	00°00'15"	29.749
19/08/2048 00:00:00	♁	07°11'09" ♁	-20°42'45"	-12°48'09"	-00°01'14"	40.144
19/08/2048 00:00:00	♁	25°47'57" ♄	-23°21'57"	00°00'00"	00°00'14"	0.002
19/08/2048 00:00:00	♃	07°13'33" ♃	-12°26'15"	01°34'05"	00°04'41"	9.167
19/08/2048 00:00:00	♁	22°10'12" ♀	23°24'25"	00°12'21"	00°06'38"	0.003
19/08/2048 00:00:00	♁	25°47'57" ♄	-23°21'57"	00°00'00"	00°00'14"	0.002
19/08/2048 00:00:00	♁	16°12'46" ♁	20°40'43"	-01°46'58"	-00°54'15"	0.003
19/08/2048 00:00:00	X	01°04'48" ♁	06°16'55"	-05°55'43"	-00°00'14"	92.646
19/08/2048 00:00:00	Y	17°37'20" ♀	11°51'49"	-11°02'13"	00°00'23"	78.692
20/08/2048 00:00:00	♁	27°40'19" ♁	12°16'42"	00°00'00"	00°57'44"	1.012
20/08/2048 00:00:00	♁	07°14'59" ♁	-22°13'18"	01°00'50"	14°26'06"	0.002
20/08/2048 00:00:00	♁	21°56'28" ♃	02°49'16"	-00°24'28"	01°23'09"	1.116
20/08/2048 00:00:00	♀	20°15'03" ♃	05°02'50"	01°17'23"	01°13'25"	1.542
20/08/2048 00:00:00	♂	15°10'31" ♄	-25°57'05" ♁	-03°21'49"	00°26'04"	0.721
20/08/2048 00:00:00	♃	25°44'11" ♀	22°50'46"	-00°31'05"	00°09'40"	5.463

Ephemerides year 2048

20/08/2048 00:00:00	♃	09°48'35" ♁	-22°36'29"	00°27'47"	-00°02'12"	9.327
20/08/2048 00:00:00	♅	10°39'20" ♃	08°14'49"	00°43'56"	00°03'41"	19.277
20/08/2048 00:00:00	♆	23°52'03" ♁	17°02'33"	-01°44'44"	00°00'13"	29.732
20/08/2048 00:00:00	♁	07°09'54" ♃	-20°43'19"	-12°48'15"	-00°01'15"	40.142
20/08/2048 00:00:00	♄	25°47'30" ♁	-23°21'56"	00°00'00"	-00°01'17"	0.002
20/08/2048 00:00:00	♆	07°18'17" ♃	-12°27'39"	01°34'13"	00°04'46"	9.183
20/08/2048 00:00:00	♁	22°16'51" ♃	23°23'56"	00°11'28"	00°06'38"	0.003
20/08/2048 00:00:00	♄	25°47'30" ♁	-23°21'56"	00°00'00"	-00°01'17"	0.002
20/08/2048 00:00:00	♁	15°14'49" ♃	20°52'21"	-01°41'59"	-00°57'10"	0.003
20/08/2048 00:00:00	X	01°04'34" ♁	06°16'49"	-05°55'44"	-00°00'14"	92.630
20/08/2048 00:00:00	Y	17°37'43" ♃	11°51'44"	-11°02'21"	00°00'22"	78.676
21/08/2048 00:00:00	♁	28°38'03" ♃	11°56'45"	00°00'00"	00°57'45"	1.012
21/08/2048 00:00:00	♃	21°42'45" ♁	-19°28'51"	02°13'44"	14°28'40"	0.002
21/08/2048 00:00:00	♅	23°18'47" ♃	02°08'32"	-00°33'25"	01°21'29"	1.103
21/08/2048 00:00:00	♆	21°28'28" ♃	04°32'40"	01°16'02"	01°13'24"	1.537
21/08/2048 00:00:00	♂	15°36'48" ♁	-25°59'14"	0-03°21'02"	00°26'29"	0.726
21/08/2048 00:00:00	♁	25°53'49" ♃	22°51'05"	-00°31'04"	00°09'34"	5.450
21/08/2048 00:00:00	♃	09°46'25" ♁	-22°36'46"	00°27'40"	-00°02'07"	9.339
21/08/2048 00:00:00	♅	10°43'02" ♃	08°13'25"	00°43'56"	00°03'42"	19.281

Ephemerides year 2048

21/08/2048 00:00:00	♃	23°52'15"	♏	17°02'33"	-01°44'47"	00°00'11"	29.715
21/08/2048 00:00:00	♁	07°08'39"	♋	-20°43'53"	-12°48'21"	-00°01'15"	40.140
21/08/2048 00:00:00	♁	25°45'05"	♋	-23°21'52"	00°00'00"	-00°03'36"	0.002
21/08/2048 00:00:00	♃	07°23'06"	♎	-12°29'05"	01°34'22"	00°04'51"	9.199
21/08/2048 00:00:00	♁	22°23'30"	♁	23°23'26"	00°10'35"	00°06'38"	0.003
21/08/2048 00:00:00	T♁	25°45'05"	♋	-23°21'52"	00°00'00"	-00°03'36"	0.002
21/08/2048 00:00:00	T♁	14°22'38"	♋	21°02'23"	-01°37'35"	-00°47'16"	0.003
21/08/2048 00:00:00	X	01°04'19"	♏	06°16'42"	-05°55'46"	-00°00'15"	92.615
21/08/2048 00:00:00	Y	17°38'05"	♁	11°51'38"	-11°02'28"	00°00'21"	78.660
22/08/2048 00:00:00	♁	29°35'49"	♏	11°36'37"	00°00'00"	00°57'46"	1.011
22/08/2048 00:00:00	♃	06°10'40"	♏	-15°31'33"	03°17'53"	14°26'12"	0.002
22/08/2048 00:00:00	♃	24°39'26"	♎	01°28'18"	-00°42'29"	01°19'47"	1.090
22/08/2048 00:00:00	♃	22°41'52"	♎	04°02'22"	01°14'36"	01°13'23"	1.533
22/08/2048 00:00:00	♂	16°03'31"	♋	-26°01'19"	0-03°20'14"	00°26'55"	0.731
22/08/2048 00:00:00	♃	26°03'20"	♁	22°51'24"	-00°31'02"	00°09'27"	5.436
22/08/2048 00:00:00	♃	09°44'20"	♋	-22°37'02"	00°27'33"	-00°02'02"	9.352
22/08/2048 00:00:00	♃	10°46'45"	♎	08°12'00"	00°43'55"	00°03'42"	19.284
22/08/2048 00:00:00	♃	23°52'26"	♏	17°02'32"	-01°44'50"	00°00'09"	29.699
22/08/2048 00:00:00	♁	07°07'23"	♋	-20°44'26"	-12°48'26"	-00°01'15"	40.139

Ephemerides year 2048

22/08/2048 00:00:00	♁	25°40'10" ♀r	-23°21'42"	00°00'00"	-00°06'14"	0.002
22/08/2048 00:00:00	♋	07°28'00" ♃	-12°30'32"	01°34'30"	00°04'56"	9.215
22/08/2048 00:00:00	♌	22°30'09" ♄	23°22'56"	00°09'42"	00°06'38"	0.003
22/08/2048 00:00:00	♁	25°40'10" ♀r	-23°21'42"	00°00'00"	-00°06'14"	0.002
22/08/2048 00:00:00	♌	13°36'44" ♄r	21°10'45"	-01°33'56"	-00°47'33"	0.003
22/08/2048 00:00:00	X	01°04'03" ♂r	06°16'36"	-05°55'47"	-00°00'15"	92.600
22/08/2048 00:00:00	Y	17°38'26" ♄	11°51'33"	-11°02'36"	00°00'20"	78.644
23/08/2048 00:00:00	♁	00°33'36" ♃	11°16'18"	00°00'00"	00°57'47"	1.011
23/08/2048 00:00:00	♃	20°33'13" ♁	-10°41'49"	04°08'56"	14°17'53"	0.002
23/08/2048 00:00:00	♌	25°58'21" ♃	00°48'36"	-00°51'39"	01°18'02"	1.076
23/08/2048 00:00:00	♌	23°55'15" ♃	03°31'58"	01°13'07"	01°13'22"	1.528
23/08/2048 00:00:00	♌	16°30'38" ♀r	-26°03'21"	0-03°19'25"	00°27'19"	0.737
23/08/2048 00:00:00	♄	26°12'44" ♄	22°51'42"	-00°31'01"	00°09'20"	5.423
23/08/2048 00:00:00	♌	09°42'21" ♀r	-22°37'18"	00°27'25"	-00°01'57"	9.365
23/08/2048 00:00:00	♌	10°50'28" ♃	08°10'35"	00°43'55"	00°03'43"	19.287
23/08/2048 00:00:00	♌	23°52'34" ♂	17°02'31"	-01°44'54"	00°00'07"	29.682
23/08/2048 00:00:00	♌	07°06'08" ♀r	-20°45'00"	-12°48'31"	-00°01'15"	40.138
23/08/2048 00:00:00	♁	25°32'42" ♀r	-23°21'28"	00°00'00"	-00°08'36"	0.002
23/08/2048 00:00:00	♋	07°32'59" ♃	-12°32'01"	01°34'38"	00°05'01"	9.231

Ephemerides year 2048

23/08/2048 00:00:00	☾	22°36'47" ♀	23°22'25"	00°08'49"	00°06'38"	0.003
23/08/2048 00:00:00	♄	25°32'42" ♂	-23°21'28"	00°00'00"	-00°08'36"	0.002
23/08/2048 00:00:00	♃	12°40'27" ♀	21°20'30"	-01°29'38"	-01°08'40"	0.003
23/08/2048 00:00:00	X	01°03'47" ♂	06°16'29"	-05°55'48"	-00°00'16"	92.585
23/08/2048 00:00:00	Y	17°38'47" ♀	11°51'27"	-11°02'44"	00°00'20"	78.627
24/08/2048 00:00:00	☉	01°31'24" ♀	10°55'48"	00°00'00"	00°57'48"	1.011
24/08/2048 00:00:00	☾	04°44'30" ♀	-05°21'43"	04°43'47"	14°03'45"	0.002
24/08/2048 00:00:00	♁	27°15'30" ♀	00°09'28"	-01°00'55"	01°16'15"	1.063
24/08/2048 00:00:00	♂	25°08'37" ♀	03°01'27"	01°11'34"	01°13'21"	1.524
24/08/2048 00:00:00	♂	16°58'10" ♂	-26°05'19"	0-03°18'36"	00°27'43"	0.742
24/08/2048 00:00:00	♃	26°22'00" ♀	22°51'58"	-00°31'00"	00°09'13"	5.409
24/08/2048 00:00:00	♃	09°40'26" ♂	-22°37'34"	00°27'18"	-00°01'51"	9.378
24/08/2048 00:00:00	♁	10°54'11" ♀	08°09'10"	00°43'55"	00°03'43"	19.290
24/08/2048 00:00:00	♁	23°52'40" ♂	17°02'29"	-01°44'57"	00°00'05"	29.665
24/08/2048 00:00:00	♃	07°04'52" ♂	-20°45'33"	-12°48'35"	-00°01'16"	40.137
24/08/2048 00:00:00	♄	25°23'12" ♂	-23°21'08"	00°00'00"	-00°10'13"	0.002
24/08/2048 00:00:00	♁	07°38'02" ♀	-12°33'31"	01°34'46"	00°05'05"	9.247
24/08/2048 00:00:00	☾	22°43'26" ♀	23°21'54"	00°07'56"	00°06'38"	0.003
24/08/2048 00:00:00	♄	25°23'12" ♂	-23°21'08"	00°00'00"	-00°10'13"	0.002

Ephemerides year 2048

24/08/2048 00:00:00	T♄	11°13'01" ♉	21°34'56"	-01°22'54"	-01°48'31"	0.003
24/08/2048 00:00:00	X	01°03'30" ♉	06°16'22"	-05°55'49"	-00°00'17"	92.570
24/08/2048 00:00:00	Y	17°39'07" ♉	11°51'21"	-11°02'51"	00°00'19"	78.611
25/08/2048 00:00:00	☉	02°29'14" ♉	10°35'08"	00°00'00"	00°57'50"	1.011
25/08/2048 00:00:00	☾	18°39'06" ♉	00°07'49"	05°00'58"	13°44'45"	0.003
25/08/2048 00:00:00	♀	28°30'51" ♉	-00°29'00"	-01°10'15"	01°14'24"	1.049
25/08/2048 00:00:00	♀	26°21'59" ♉	02°30'51"	01°09'57"	01°13'20"	1.519
25/08/2048 00:00:00	♂	17°26'05" ♉	-26°07'13"	0-03°17'45"	00°28'07"	0.748
25/08/2048 00:00:00	♃	26°31'10" ♉	22°52'14"	-00°30'59"	00°09'06"	5.395
25/08/2048 00:00:00	♅	09°38'37" ♉	-22°37'49"	00°27'11"	-00°01'46"	9.391
25/08/2048 00:00:00	♁	10°57'55" ♉	08°07'45"	00°43'54"	00°03'44"	19.292
25/08/2048 00:00:00	♃	23°52'44" ♉	17°02'27"	-01°45'01"	00°00'03"	29.648
25/08/2048 00:00:00	♁	07°03'36" ♉	-20°46'06"	-12°48'40"	-00°01'16"	40.136
25/08/2048 00:00:00	♁	25°12'36" ♉	-23°20'46"	00°00'00"	-00°10'47"	0.002
25/08/2048 00:00:00	♁	07°43'11" ♉	-12°35'03"	01°34'55"	00°05'10"	9.263
25/08/2048 00:00:00	♁	22°50'04" ♉	23°21'23"	00°07'03"	00°06'38"	0.003
25/08/2048 00:00:00	T♁	25°12'36" ♉	-23°20'46"	00°00'00"	-00°10'47"	0.002
25/08/2048 00:00:00	T♄	09°01'09" ♉	21°55'14"	-01°12'29"	-02°34'52"	0.003
25/08/2048 00:00:00	X	01°03'12" ♉	06°16'15"	-05°55'51"	-00°00'17"	92.555

Ephemerides year 2048

25/08/2048 00:00:00	Y	17°39'26" ♀	11°51'15"	-11°02'59"	00°00'18"	78.595
26/08/2048 00:00:00	☉	03°27'05" ♉	10°14'18"	00°00'00"	00°57'52"	1.011
26/08/2048 00:00:00	☾	02°12'57" ♀	05°28'36"	05°00'35"	13°22'37"	0.003
26/08/2048 00:00:00	♁	29°44'18" ♉	-01°06'49"	-01°19'37"	01°12'29"	1.035
26/08/2048 00:00:00	♂	27°35'19" ♉	02°00'10"	01°08'16"	01°13'20"	1.514
26/08/2048 00:00:00	♂	17°54'24" ♀	-26°09'03"	0-03°16'54"	00°28'30"	0.753
26/08/2048 00:00:00	♃	26°40'13" ♀	22°52'29"	-00°30'57"	00°08'58"	5.381
26/08/2048 00:00:00	♄	09°36'53" ♀	-22°38'04"	00°27'04"	-00°01'41"	9.404
26/08/2048 00:00:00	♅	11°01'40" ♉	08°06'19"	00°43'54"	00°03'44"	19.294
26/08/2048 00:00:00	♆	23°52'47" ♀	17°02'24"	-01°45'04"	00°00'01"	29.632
26/08/2048 00:00:00	♇	07°02'19" ♀	-20°46'39"	-12°48'43"	-00°01'16"	40.136
26/08/2048 00:00:00	♈	25°02'01" ♀	-23°20'22"	00°00'00"	-00°10'12"	0.002
26/08/2048 00:00:00	♉	07°48'24" ♉	-12°36'36"	01°35'03"	00°05'15"	9.278
26/08/2048 00:00:00	♊	22°56'43" ♀	23°20'51"	00°06'10"	00°06'38"	0.003
26/08/2048 00:00:00	T♈	25°02'01" ♀	-23°20'22"	00°00'00"	-00°10'12"	0.002
26/08/2048 00:00:00	T♉	06°07'05" ♀	22°19'09"	-00°58'23"	-03°09'53"	0.003
26/08/2048 00:00:00	X	01°02'54" ♀	06°16'08"	-05°55'52"	-00°00'18"	92.540
26/08/2048 00:00:00	Y	17°39'44" ♀	11°51'09"	-11°03'07"	00°00'17"	78.578
27/08/2048 00:00:00	☉	04°24'58" ♉	09°53'18"	00°00'00"	00°57'53"	1.010



Ephemerides year 2048

27/08/2048 00:00:00	♃	15°23'59" ♃	10°25'32"	04°44'00"	12°59'27"	0.003
27/08/2048 00:00:00	♆	00°55'49" ♆	-01°43'54"	-01°29'02"	01°10'30"	1.021
27/08/2048 00:00:00	♀	28°48'39" ♀	01°29'24"	01°06'31"	01°13'19"	1.510
27/08/2048 00:00:00	♂	18°23'05" ♂	-26°10'48"	0-03°16'02"	00°28'52"	0.759
27/08/2048 00:00:00	♃	26°49'08" ♃	22°52'44"	-00°30'56"	00°08'51"	5.367
27/08/2048 00:00:00	♄	09°35'14" ♄	-22°38'18"	00°26'56"	-00°01'35"	9.417
27/08/2048 00:00:00	♁	11°05'25" ♁	08°04'54"	00°43'54"	00°03'44"	19.296
27/08/2048 00:00:00	♆	23°52'47" ♆	17°02'21"	-01°45'08"	-00°00'00"	29.615
27/08/2048 00:00:00	♁	07°01'03" ♁	-20°47'11"	-12°48'47"	-00°01'16"	40.136
27/08/2048 00:00:00	♁	24°52'32" ♁	-23°20'00"	00°00'00"	-00°08'37"	0.002
27/08/2048 00:00:00	♃	07°53'41" ♃	-12°38'10"	01°35'11"	00°05'20"	9.294
27/08/2048 00:00:00	♁	23°03'22" ♁	23°20'19"	00°05'17"	00°06'38"	0.003
27/08/2048 00:00:00	♁	24°52'32" ♁	-23°20'00"	00°00'00"	-00°08'37"	0.002
27/08/2048 00:00:00	♁	02°50'11" ♁	22°42'03"	-00°42'05"	-03°18'54"	0.003
27/08/2048 00:00:00	X	01°02'36" ♁	06°16'00"	-05°55'53"	-00°00'18"	92.526
27/08/2048 00:00:00	Y	17°40'02" ♁	11°51'03"	-11°03'14"	00°00'17"	78.561
28/08/2048 00:00:00	♁	05°22'53" ♁	09°32'08"	00°00'00"	00°57'55"	1.010
28/08/2048 00:00:00	♃	28°12'13" ♃	14°46'26"	04°13'24"	12°37'20"	0.003
28/08/2048 00:00:00	♆	02°05'18" ♆	-02°20'11"	-01°38'28"	01°08'26"	1.007

Ephemerides year 2048

28/08/2048 00:00:00	♀	00°01'58" ♁	00°58'36"	01°04'43"	01°13'18"	1.505
28/08/2048 00:00:00	♂	18°52'09" ♂	-26°12'27" ♁	-03°15'10"	00°29'15"	0.764
28/08/2048 00:00:00	♃	26°57'56" ♁	22°52'57"	-00°30'55"	00°08'44"	5.353
28/08/2048 00:00:00	♄	09°33'41" ♂	-22°38'32"	00°26'49"	-00°01'30"	9.431
28/08/2048 00:00:00	♅	11°09'10" ♃	08°03'28"	00°43'54"	00°03'45"	19.297
28/08/2048 00:00:00	♆	23°52'45" ♂	17°02'17"	-01°45'11"	-00°00'02"	29.599
28/08/2048 00:00:00	♇	06°59'46" ♃	-20°47'43"	-12°48'50"	-00°01'16"	40.136
28/08/2048 00:00:00	♈	24°45'00" ♂	-23°19'43"	00°00'00"	-00°06'22"	0.002
28/08/2048 00:00:00	♉	07°59'04" ♃	-12°39'46"	01°35'20"	00°05'24"	9.309
28/08/2048 00:00:00	♊	23°10'00" ♁	23°19'47"	00°04'24"	00°06'38"	0.003
28/08/2048 00:00:00	♋	24°45'00" ♂	-23°19'43"	00°00'00"	-00°06'22"	0.002
28/08/2048 00:00:00	♌	29°38'54" ♁	22°59'57"	-00°25'58"	-02°59'28"	0.003
28/08/2048 00:00:00	♍	01°02'17" ♂	06°15'53"	-05°55'54"	-00°00'19"	92.512
28/08/2048 00:00:00	♎	17°40'19" ♁	11°50'56"	-11°03'22"	00°00'16"	78.545
29/08/2048 00:00:00	♏	06°20'49" ♃	09°10'49"	00°00'00"	00°57'57"	1.010
29/08/2048 00:00:00	♐	10°39'37" ♂	18°21'40"	03°31'22"	12°18'03"	0.003
29/08/2048 00:00:00	♑	03°12'41" ♁	-02°55'37"	-01°47'54"	01°06'16"	0.993
29/08/2048 00:00:00	♀	01°15'16" ♁	00°27'44"	01°02'51"	01°13'17"	1.500
29/08/2048 00:00:00	♂	19°21'35" ♂	-26°14'02" ♁	-03°14'16"	00°29'36"	0.770

Ephemerides year 2048

29/08/2048 00:00:00	♃	27°06'37" ♀	22°53'10"	-00°30'54"	00°08'36"	5.339
29/08/2048 00:00:00	♅	09°32'13" ♂	-22°38'45"	00°26'42"	-00°01'24"	9.445
29/08/2048 00:00:00	♁	11°12'55" ♀	08°02'02"	00°43'53"	00°03'45"	19.299
29/08/2048 00:00:00	♆	23°52'42" ♂	17°02'13"	-01°45'14"	-00°00'04"	29.582
29/08/2048 00:00:00	♁	06°58'30" ♂	-20°48'15"	-12°48'53"	-00°01'16"	40.137
29/08/2048 00:00:00	♁	24°39'50" ♂	-23°19'30"	00°00'00"	-00°03'56"	0.002
29/08/2048 00:00:00	♃	08°04'31" ♀	-12°41'23"	01°35'28"	00°05'29"	9.325
29/08/2048 00:00:00	♁	23°16'39" ♀	23°19'14"	00°03'31"	00°06'38"	0.003
29/08/2048 00:00:00	♁	24°39'50" ♂	-23°19'30"	00°00'00"	-00°03'56"	0.002
29/08/2048 00:00:00	♁	26°57'15" ♀	23°11'41"	-00°12'10"	-02°22'10"	0.003
29/08/2048 00:00:00	X	01°01'57" ♂	06°15'45"	-05°55'55"	-00°00'19"	92.498
29/08/2048 00:00:00	Y	17°40'35" ♀	11°50'50"	-11°03'30"	00°00'15"	78.528
30/08/2048 00:00:00	♁	07°18'48" ♀	08°49'22"	00°00'00"	00°57'59"	1.010
30/08/2048 00:00:00	♁	22°49'44" ♂	21°03'40"	02°40'32"	12°02'55"	0.003
30/08/2048 00:00:00	♁	04°17'50" ♀	-03°30'08"	-01°57'19"	01°04'00"	0.978
30/08/2048 00:00:00	♁	02°28'34" ♀	-00°03'08"	01°00'55"	01°13'17"	1.495
30/08/2048 00:00:00	♁	19°51'23" ♂	-26°15'31"	-03°13'23"	00°29'58"	0.775
30/08/2048 00:00:00	♃	27°15'10" ♀	22°53'22"	-00°30'53"	00°08'29"	5.325
30/08/2048 00:00:00	♅	09°30'51" ♂	-22°38'59"	00°26'34"	-00°01'19"	9.459

Ephemerides year 2048

30/08/2048 00:00:00	♃	11°16'41" ♃	08°00'36"	00°43'53"	00°03'45"	19.300
30/08/2048 00:00:00	♃	23°52'36" ♃	17°02'08"	-01°45'18"	-00°00'06"	29.566
30/08/2048 00:00:00	♃	06°57'13" ♃	-20°48'47"	-12°48'56"	-00°01'16"	40.138
30/08/2048 00:00:00	♃	24°37'01" ♃	-23°19'23"	00°00'00"	-00°01'46"	0.002
30/08/2048 00:00:00	♃	08°10'03" ♃	-12°43'01"	01°35'36"	00°05'34"	9.340
30/08/2048 00:00:00	♃	23°23'17" ♃	23°18'41"	00°02'38"	00°06'38"	0.003
30/08/2048 00:00:00	♃	24°37'01" ♃	-23°19'23"	00°00'00"	-00°01'46"	0.002
30/08/2048 00:00:00	♃	24°55'18" ♃	23°18'30"	-00°01'37"	-01°42'33"	0.003
30/08/2048 00:00:00	♃	01°01'37" ♃	06°15'37"	-05°55'56"	-00°00'20"	92.484
30/08/2048 00:00:00	♃	17°40'50" ♃	11°50'43"	-11°03'38"	00°00'15"	78.511
31/08/2048 00:00:00	♃	08°16'48" ♃	08°27'46"	00°00'00"	00°58'01"	1.010
31/08/2048 00:00:00	♃	04°47'09" ♃	22°46'52"	01°43'24"	11°52'47"	0.003
31/08/2048 00:00:00	♃	05°20'40" ♃	-04°03'39"	-02°06'40"	01°01'37"	0.963
31/08/2048 00:00:00	♃	03°41'50" ♃	-00°34'04"	00°58'56"	01°13'16"	1.490
31/08/2048 00:00:00	♃	20°21'32" ♃	-26°16'54"	-03°12'28"	00°30'19"	0.781
31/08/2048 00:00:00	♃	27°23'35" ♃	22°53'33"	-00°30'52"	00°08'21"	5.310
31/08/2048 00:00:00	♃	09°29'34" ♃	-22°39'11"	00°26'27"	-00°01'13"	9.473
31/08/2048 00:00:00	♃	11°20'27" ♃	07°59'10"	00°43'53"	00°03'46"	19.301
31/08/2048 00:00:00	♃	23°52'28" ♃	17°02'03"	-01°45'21"	-00°00'08"	29.549

Ephemerides year 2048

31/08/2048 00:00:00	♁	06°55'57" ♃r	-20°49'18"	-12°48'58"	-00°01'16"	40.139
31/08/2048 00:00:00	♄	24°36'03" ♃r	-23°19'21"	00°00'00"	-00°00'17"	0.002
31/08/2048 00:00:00	♅	08°15'39" ♃	-12°44'41"	01°35'45"	00°05'38"	9.355
31/08/2048 00:00:00	♆	23°29'56" ♃	23°18'08"	00°01'45"	00°06'38"	0.003
31/08/2048 00:00:00	♁	24°36'03" ♃r	-23°19'21"	00°00'00"	-00°00'17"	0.002
31/08/2048 00:00:00	♁	23°28'39" ♃r	23°22'18"	00°05'58"	-01°13'09"	0.003
31/08/2048 00:00:00	♁	01°01'16" ♃r	06°15'29"	-05°55'57"	-00°00'20"	92.470
31/08/2048 00:00:00	♁	17°41'05" ♃	11°50'36"	-11°03'46"	00°00'14"	78.494
01/09/2048 00:00:00	♁	09°14'50" ♃	08°06'01"	00°00'00"	00°58'03"	1.009
01/09/2048 00:00:00	♁	16°37'07" ♃	23°27'46" ♁	00°42'22"	11°48'04"	0.003
01/09/2048 00:00:00	♁	06°21'02" ♃	-04°36'07"	-02°15'58"	00°59'06"	0.949
01/09/2048 00:00:00	♁	04°55'07" ♃	-01°04'59"	00°56'54"	01°13'15"	1.485
01/09/2048 00:00:00	♁	20°52'02" ♃	-26°18'11" ♁	-03°11'32"	00°30'40"	0.786
01/09/2048 00:00:00	♁	27°31'53" ♃	22°53'44"	-00°30'51"	00°08'13"	5.296
01/09/2048 00:00:00	♁	09°28'24" ♃r	-22°39'24"	00°26'20"	-00°01'08"	9.487
01/09/2048 00:00:00	♁	11°24'13" ♃	07°57'44"	00°43'53"	00°03'46"	19.301
01/09/2048 00:00:00	♁	23°52'19" ♃r	17°01'58"	-01°45'25"	-00°00'10"	29.533
01/09/2048 00:00:00	♁	06°54'40" ♃r	-20°49'49"	-12°49'00"	-00°01'16"	40.140
01/09/2048 00:00:00	♁	24°36'07" ♃	-23°19'21"	00°00'00"	00°00'14"	0.002

Ephemerides year 2048

01/09/2048 00:00:00	♄	08°21'20"	♍	-12°46'21"	01°35'53"	00°05'43"	9.370
01/09/2048 00:00:00	♁	23°36'35"	♁	23°17'34"	00°00'52"	00°06'38"	0.003
01/09/2048 00:00:00	♄♁	24°36'07"	♄	-23°19'21"	00°00'00"	00°00'14"	0.002
01/09/2048 00:00:00	♄♁	22°23'16"	♁	23°24'36"	00°11'47"	-01°00'44"	0.003
01/09/2048 00:00:00	X	01°00'55"	♄	06°15'21"	-05°55'58"	-00°00'21"	92.456
01/09/2048 00:00:00	Y	17°41'19"	♁	11°50'30"	-11°03'54"	00°00'13"	78.477
02/09/2048 00:00:00	☉	10°12'54"	♍	07°44'09"	00°00'00"	00°58'04"	1.009
02/09/2048 00:00:00	☾	28°25'08"	♁	23°05'06"	-00°20'17"	11°48'50"	0.003
02/09/2048 00:00:00	♁	07°18'49"	♁	-05°07'27"	-02°25'10"	00°56'26"	0.934
02/09/2048 00:00:00	♀	06°08'22"	♁	-01°35'55"	00°54'48"	01°13'15"	1.481
02/09/2048 00:00:00	♂	21°22'52"	♄	-26°19'21"	♁-03°10'36"	00°31'00"	0.792
02/09/2048 00:00:00	♁	27°40'02"	♁	22°53'53"	-00°30'50"	00°08'05"	5.281
02/09/2048 00:00:00	♄	09°27'18"	♄	-22°39'36"	00°26'12"	-00°01'02"	9.502
02/09/2048 00:00:00	♁	11°28'00"	♍	07°56'18"	00°43'53"	00°03'46"	19.301
02/09/2048 00:00:00	♁	23°52'07"	♄	17°01'52"	-01°45'28"	-00°00'12"	29.517
02/09/2048 00:00:00	♁	06°53'24"	♄	-20°50'19"	-12°49'01"	-00°01'16"	40.142
02/09/2048 00:00:00	♁	24°36'11"	♄	-23°19'21"	00°00'00"	-00°00'17"	0.002
02/09/2048 00:00:00	♄	08°27'05"	♍	-12°48'04"	01°36'02"	00°05'47"	9.385
02/09/2048 00:00:00	♁	23°43'13"	♁	23°17'00"	-00°00'01"	00°06'38"	0.003

Ephemerides year 2048

02/09/2048 00:00:00	T♄	24°36'11" ♏r	-23°19'21"	00°00'00"	-00°00'17"	0.002
02/09/2048 00:00:00	T♄	21°20'56" ♏r	23°26'18" ♁	00°17'18"	-01°06'54"	0.003
02/09/2048 00:00:00	X	01°00'34" ♏r	06°15'13"	-05°55'59"	-00°00'21"	92.443
02/09/2048 00:00:00	Y	17°41'32" ♏	11°50'23"	-11°04'02"	00°00'12"	78.460
03/09/2048 00:00:00	♁	11°11'00" ♏	07°22'09"	-00°00'00"	00°58'06"	1.009
03/09/2048 00:00:00	♂	10°16'32" ♁	21°40'03"	-01°22'17"	11°54'48"	0.003
03/09/2048 00:00:00	♀	08°13'51" ♁	-05°37'32"	-02°34'14"	00°53'36"	0.919
03/09/2048 00:00:00	♀	07°21'37" ♁	-02°06'50"	00°52'38"	01°13'14"	1.476
03/09/2048 00:00:00	♂	21°54'02" ♏	-26°20'25" ♁	-03°09'40"	00°31'20"	0.797
03/09/2048 00:00:00	♃	27°48'04" ♏	22°54'03"	-00°30'49"	00°07'57"	5.267
03/09/2048 00:00:00	♃	09°26'19" ♏r	-22°39'47"	00°26'05"	-00°00'56"	9.516
03/09/2048 00:00:00	♃	11°31'46" ♏	07°54'52"	00°43'54"	00°03'46"	19.301
03/09/2048 00:00:00	♃	23°51'54" ♏r	17°01'45"	-01°45'31"	-00°00'14"	29.501
03/09/2048 00:00:00	♃	06°52'08" ♏r	-20°50'49"	-12°49'02"	-00°01'16"	40.144
03/09/2048 00:00:00	♁	24°35'12" ♏r	-23°19'19"	00°00'00"	-00°01'49"	0.002
03/09/2048 00:00:00	♃	08°32'55" ♏	-12°49'47"	01°36'11"	00°05'51"	9.400
03/09/2048 00:00:00	♃	23°49'52" ♏	23°16'26"	-00°00'54"	00°06'38"	0.003
03/09/2048 00:00:00	T♄	24°35'12" ♏r	-23°19'19"	00°00'00"	-00°01'49"	0.002
03/09/2048 00:00:00	T♄	20°04'13" ♏r	23°27'34" ♁	00°23'57"	-01°28'36"	0.003

Ephemerides year 2048

03/09/2048 00:00:00	X	01°00'11"	06°15'04"	-05°56'00"	-00°00'22"	92.429
03/09/2048 00:00:00	Y	17°41'44"	11°50'16"	-11°04'10"	00°00'12"	78.443
04/09/2048 00:00:00		12°09'08"	07°00'02"	-00°00'00"	00°58'08"	1.009
04/09/2048 00:00:00		22°16'17"	19°16'09"	-02°21'15"	12°05'23"	0.003
04/09/2048 00:00:00		09°05'58"	-06°06'18"	-02°43'09"	00°50'35"	0.904
04/09/2048 00:00:00		08°34'50"	-02°37'44"	00°50'26"	01°13'13"	1.471
04/09/2048 00:00:00		22°25'33"	-26°21'22"	-03°08'42"	00°31'40"	0.803
04/09/2048 00:00:00		27°55'57"	22°54'11"	-00°30'48"	00°07'49"	5.252
04/09/2048 00:00:00		09°25'25"	-22°39'58"	00°25'58"	-00°00'51"	9.531
04/09/2048 00:00:00		11°35'32"	07°53'26"	00°43'54"	00°03'46"	19.301
04/09/2048 00:00:00		23°51'39"	17°01'38"	-01°45'35"	-00°00'16"	29.485
04/09/2048 00:00:00		06°50'52"	-20°51'19"	-12°49'03"	-00°01'16"	40.146
04/09/2048 00:00:00		24°32'17"	-23°19'12"	00°00'00"	-00°04'08"	0.002
04/09/2048 00:00:00		08°38'49"	-12°51'31"	01°36'19"	00°05'55"	9.414
04/09/2048 00:00:00		23°56'31"	23°15'52"	-00°01'47"	00°06'38"	0.003
04/09/2048 00:00:00	T	24°32'17"	-23°19'12"	00°00'00"	-00°04'08"	0.002
04/09/2048 00:00:00	T	18°21'16"	23°27'56"	00°32'42"	-01°57'27"	0.003
04/09/2048 00:00:00	X	00°59'49"	06°14'56"	-05°56'01"	-00°00'22"	92.416
04/09/2048 00:00:00	Y	17°41'56"	11°50'09"	-11°04'18"	00°00'11"	78.426



Ephemerides year 2048

05/09/2048 00:00:00	☉	13°07'18" ♍	06°37'48"	-00°00'00"	00°58'10"	1.008	
05/09/2048 00:00:00	☾	04°28'33" ♋	15°59'03"	-03°14'40"	12°19'41"	0.003	
05/09/2048 00:00:00	♀	09°54'58" ♋	-06°33'38"	-02°51'53"	00°47'22"	0.888	
05/09/2048 00:00:00	♀	09°48'03" ♋	-03°08'35"	00°48'10"	01°13'12"	1.465	
05/09/2048 00:00:00	♂	22°57'23" ♏	-26°22'12"	o-03°07'44"	00°31'59"	0.809	
05/09/2048 00:00:00	♃	28°03'42" ♌	22°54'19"	-00°30'47"	00°07'40"	5.237	
05/09/2048 00:00:00	♅	09°24'37" ♎	-22°40'09"	00°25'51"	-00°00'45"	9.546	
05/09/2048 00:00:00	♁	11°39'18" ♍	07°51'59"	00°43'53"	00°03'46"	19.300	
05/09/2048 00:00:00	♃	23°51'21" ♎	17°01'31"	-01°45'38"	-00°00'18"	29.469	
05/09/2048 00:00:00	♁	06°49'36" ♎	-20°51'49"	-12°49'04"	-00°01'15"	40.149	
05/09/2048 00:00:00	♋	24°26'48" ♏	-23°18'58"	00°00'00"	-00°06'50"	0.002	
05/09/2048 00:00:00	♎	08°44'47" ♎	-12°53'17"	01°36'28"	00°06'00"	9.429	
05/09/2048 00:00:00	♁	24°03'09" ♌	23°15'17"	-00°02'40"	00°06'38"	0.003	
05/09/2048 00:00:00	T♋	24°26'48" ♏	-23°18'58"	00°00'00"	-00°06'50"	0.002	
05/09/2048 00:00:00	T♁	16°11'34" ♌	23°26'17"	o	00°43'29"	-02°19'23"	0.003
05/09/2048 00:00:00	X	00°59'26" ♎	06°14'47"	-05°56'02"	-00°00'23"	92.404	
05/09/2048 00:00:00	Y	17°42'07" ♌	11°50'02"	-11°04'26"	00°00'10"	78.409	
06/09/2048 00:00:00	☉	14°05'29" ♍	06°15'27"	-00°00'00"	00°58'12"	1.008	
06/09/2048 00:00:00	☾	16°56'30" ♋	11°56'22"	-03°59'51"	12°36'31"	0.003	

Ephemerides year 2048

06/09/2048 00:00:00	♀	10°40'38" ♁	-06°59'25"	-03°00'23"	00°43'56"	0.873
06/09/2048 00:00:00	♀	11°01'16" ♁	-03°39'24"	00°45'51"	01°13'11"	1.460
06/09/2048 00:00:00	♂	23°29'32" ♂	-26°22'54" ♁	-03°06'46"	00°32'18"	0.814
06/09/2048 00:00:00	♃	28°11'18" ♀	22°54'27"	-00°30'46"	00°07'32"	5.222
06/09/2048 00:00:00	♅	09°23'54" ♂	-22°40'19"	00°25'43"	-00°00'39"	9.560
06/09/2048 00:00:00	♁	11°43'05" ♃	07°50'33"	00°43'54"	00°03'46"	19.300
06/09/2048 00:00:00	♃	23°51'02" ♂	17°01'23"	-01°45'41"	-00°00'20"	29.453
06/09/2048 00:00:00	♁	06°48'20" ♂	-20°52'18"	-12°49'04"	-00°01'15"	40.151
06/09/2048 00:00:00	♁	24°18'38" ♂	-23°18'37"	00°00'00"	-00°09'27"	0.002
06/09/2048 00:00:00	♃	08°50'49" ♃	-12°55'04"	01°36'37"	00°06'04"	9.443
06/09/2048 00:00:00	♁	24°09'48" ♀	23°14'41"	-00°03'33"	00°06'38"	0.003
06/09/2048 00:00:00	♁	24°18'38" ♂	-23°18'37"	00°00'00"	-00°09'27"	0.002
06/09/2048 00:00:00	♁	13°50'16" ♀	23°21'50"	00°54'56"	-02°18'09"	0.003
06/09/2048 00:00:00	X	00°59'02" ♂	06°14'38"	-05°56'03"	-00°00'24"	92.391
06/09/2048 00:00:00	Y	17°42'17" ♀	11°49'55"	-11°04'34"	00°00'09"	78.392
07/09/2048 00:00:00	♁	15°03'43" ♃	05°53'01"	-00°00'00"	00°58'14"	1.008
07/09/2048 00:00:00	♃	29°41'59" ♂	07°17'27"	-04°34'08"	12°54'30"	0.003
07/09/2048 00:00:00	♀	11°22'47" ♁	-07°23'33"	-03°08'37"	00°40'16"	0.858
07/09/2048 00:00:00	♀	12°14'27" ♁	-04°10'09"	00°43'29"	01°13'10"	1.455

Ephemerides year 2048

07/09/2048 00:00:00	♂	24°01'59" ♂	-26°23'29" ♀	-03°05'47"	00°32'36"	0.820
07/09/2048 00:00:00	♃	28°18'46" ♀	22°54'34"	-00°30'45"	00°07'23"	5.208
07/09/2048 00:00:00	♅	09°23'18" ♂	-22°40'29"	00°25'36"	-00°00'33"	9.576
07/09/2048 00:00:00	♁	11°46'51" ♀	07°49'07"	00°43'54"	00°03'46"	19.298
07/09/2048 00:00:00	♃	23°50'40" ♂	17°01'14"	-01°45'45"	-00°00'22"	29.437
07/09/2048 00:00:00	♁	06°47'04" ♂	-20°52'47"	-12°49'04"	-00°01'15"	40.155
07/09/2048 00:00:00	♁	24°08'04" ♂	-23°18'10"	00°00'00"	-00°11'31"	0.002
07/09/2048 00:00:00	♃	08°56'55" ♀	-12°56'52"	01°36'46"	00°06'08"	9.457
07/09/2048 00:00:00	♁	24°16'27" ♀	23°14'06"	-00°04'26"	00°06'38"	0.003
07/09/2048 00:00:00	♁	24°08'04" ♂	-23°18'10"	00°00'00"	-00°11'31"	0.002
07/09/2048 00:00:00	♁	11°46'26" ♀	23°15'33"	01°04'35"	-01°43'51"	0.003
07/09/2048 00:00:00	X	00°58'38" ♂	06°14'29"	-05°56'03"	-00°00'24"	92.378
07/09/2048 00:00:00	Y	17°42'26" ♀	11°49'48"	-11°04'42"	00°00'08"	78.375
08/09/2048 00:00:00	♁	16°01'58" ♀	05°30'28"	-00°00'00"	00°58'16"	1.008
08/09/2048 00:00:00	♁	12°45'24" ♀	02°13'29"	-04°54'57"	13°12'07"	0.003
08/09/2048 00:00:00	♁	12°01'07" ♀	-07°45'52"	-03°16'32"	00°36'21"	0.843
08/09/2048 00:00:00	♀	13°27'37" ♀	-04°40'49"	00°41'04"	01°13'09"	1.450
08/09/2048 00:00:00	♂	24°34'45" ♂	-26°23'56" ♀	-03°04'47"	00°32'55"	0.826
08/09/2048 00:00:00	♃	28°26'05" ♀	22°54'40"	-00°30'44"	00°07'14"	5.193

Ephemerides year 2048

08/09/2048 00:00:00	♃	09°22'47" ♏	-22°40'39"	00°25'29"	-00°00'27"	9.591
08/09/2048 00:00:00	♃	11°50'37" ♏	07°47'41"	00°43'54"	00°03'45"	19.297
08/09/2048 00:00:00	♃	23°50'17" ♏	17°01'05"	-01°45'48"	-00°00'24"	29.421
08/09/2048 00:00:00	♃	06°45'48" ♏	-20°53'15"	-12°49'03"	-00°01'15"	40.158
08/09/2048 00:00:00	♃	23°55'54" ♏	-23°17'37"	00°00'00"	-00°12'37"	0.002
08/09/2048 00:00:00	♃	09°03'05" ♏	-12°58'41"	01°36'55"	00°06'12"	9.471
08/09/2048 00:00:00	♃	24°23'05" ♏	23°13'30"	-00°05'19"	00°06'38"	0.003
08/09/2048 00:00:00	♃	23°55'54" ♏	-23°17'37"	00°00'00"	-00°12'37"	0.002
08/09/2048 00:00:00	♃	10°32'33" ♏	23°10'23"	01°09'47"	-00°39'59"	0.003
08/09/2048 00:00:00	♃	00°58'13" ♏	06°14'20"	-05°56'04"	-00°00'25"	92.366
08/09/2048 00:00:00	♃	17°42'35" ♏	11°49'40"	-11°04'50"	00°00'08"	78.358
09/09/2048 00:00:00	♃	17°00'15" ♏	05°07'50"	-00°00'00"	00°58'17"	1.007
09/09/2048 00:00:00	♃	26°05'40" ♏	-03°02'30"	-05°00'17"	13°28'01"	0.003
09/09/2048 00:00:00	♃	12°35'24" ♏	-08°06'13"	-03°24'04"	00°32'09"	0.827
09/09/2048 00:00:00	♃	14°40'47" ♏	-05°11'25"	00°38'36"	01°13'08"	1.445
09/09/2048 00:00:00	♃	25°07'50" ♏	-26°24'14"	-03°03'46"	00°33'13"	0.831
09/09/2048 00:00:00	♃	28°33'16" ♏	22°54'46"	-00°30'43"	00°07'05"	5.178
09/09/2048 00:00:00	♃	09°22'22" ♏	-22°40'48"	00°25'21"	-00°00'22"	9.606
09/09/2048 00:00:00	♃	11°54'23" ♏	07°46'15"	00°43'54"	00°03'45"	19.295

Ephemerides year 2048

09/09/2048 00:00:00	♁	23°49'52"	♄	17°00'56"	-01°45'51"	-00°00'26"	29.406
09/09/2048 00:00:00	♁	06°44'33"	♃	-20°53'43"	-12°49'02"	-00°01'15"	40.162
09/09/2048 00:00:00	♁	23°43'14"	♄	-23°17'02"	00°00'00"	-00°12'30"	0.002
09/09/2048 00:00:00	♁	09°09'20"	♃	-13°00'31"	01°37'04"	00°06'16"	9.485
09/09/2048 00:00:00	♁	24°29'44"	♁	23°12'54"	-00°06'12"	00°06'38"	0.003
09/09/2048 00:00:00	T♁	23°43'14"	♄	-23°17'02"	00°00'00"	-00°12'30"	0.002
09/09/2048 00:00:00	T♁	10°31'22"	♁	23°09'13"	01°08'47"	00°38'31"	0.003
09/09/2048 00:00:00	X	00°57'47"	♄	06°14'11"	-05°56'05"	-00°00'25"	92.354
09/09/2048 00:00:00	Y	17°42'42"	♁	11°49'33"	-11°04'58"	00°00'07"	78.340
10/09/2048 00:00:00	♁	17°58'33"	♃	04°45'06"	-00°00'00"	00°58'19"	1.007
10/09/2048 00:00:00	♁	09°40'31"	♁	-08°15'25"	-04°48'54"	13°41'10"	0.003
10/09/2048 00:00:00	♁	13°05'20"	♁	-08°24'28"	-03°31'11"	00°27'39"	0.812
10/09/2048 00:00:00	♁	15°53'55"	♁	-05°41'55"	00°36'05"	01°13'07"	1.440
10/09/2048 00:00:00	♁	25°41'12"	♄	-26°24'24"	-03°02'45"	00°33'30"	0.837
10/09/2048 00:00:00	♁	28°40'17"	♁	22°54'51"	-00°30'42"	00°06'57"	5.163
10/09/2048 00:00:00	♁	09°22'03"	♄	-22°40'56"	00°25'14"	-00°00'16"	9.621
10/09/2048 00:00:00	♁	11°58'08"	♃	07°44'49"	00°43'54"	00°03'45"	19.294
10/09/2048 00:00:00	♁	23°49'24"	♄	17°00'46"	-01°45'54"	-00°00'28"	29.390
10/09/2048 00:00:00	♁	06°43'18"	♃	-20°54'11"	-12°49'01"	-00°01'14"	40.166

Ephemerides year 2048

10/09/2048 00:00:00	♏	23°31'18" <del>♏</del>	-23°16'27"	00°00'00"	-00°11'09"	0.002
10/09/2048 00:00:00	♋	09°15'38" ♋	-13°02'22"	01°37'13"	00°06'20"	9.499
10/09/2048 00:00:00	♏	24°36'22" ♏	23°12'17"	-00°07'05"	00°06'38"	0.003
10/09/2048 00:00:00	T♏	23°31'18" <del>♏</del>	-23°16'27"	00°00'00"	-00°11'09"	0.002
10/09/2048 00:00:00	T♏	11°48'32" ♏	23°12'29"	01°01'11"	01°53'57"	0.003
10/09/2048 00:00:00	X	00°57'22" <del>♏</del>	06°14'02"	-05°56'05"	-00°00'25"	92.342
10/09/2048 00:00:00	Y	17°42'49" ♏	11°49'25"	-11°05'06"	00°00'06"	78.323
11/09/2048 00:00:00	♏	18°56'54" ♏	04°22'18"	-00°00'00"	00°58'21"	1.007
11/09/2048 00:00:00	♏	23°26'56" ♏	-13°08'17"	-04°20'40"	13°51'07"	0.003
11/09/2048 00:00:00	♏	13°30'37" ♏	-08°40'25"	-03°37'47"	00°22'51"	0.797
11/09/2048 00:00:00	♏	17°07'02" ♏	-06°12'19"	00°33'32"	01°13'06"	1.434
11/09/2048 00:00:00	♏	26°14'51" <del>♏</del>	-26°24'26" ♏	-03°01'44"	00°33'47"	0.843
11/09/2048 00:00:00	♏	28°47'10" ♏	22°54'56"	-00°30'41"	00°06'48"	5.148
11/09/2048 00:00:00	♏	09°21'49" <del>♏</del>	-22°41'04"	00°25'07"	-00°00'10"	9.637
11/09/2048 00:00:00	♏	12°01'54" ♏	07°43'24"	00°43'55"	00°03'45"	19.291
11/09/2048 00:00:00	♏	23°48'55" <del>♏</del>	17°00'36"	-01°45'57"	-00°00'30"	29.375
11/09/2048 00:00:00	♏	06°42'03" <del>♏</del>	-20°54'38"	-12°49'00"	-00°01'14"	40.170
11/09/2048 00:00:00	♏	23°21'15" <del>♏</del>	-23°15'57"	00°00'00"	-00°08'49"	0.002
11/09/2048 00:00:00	♏	09°22'00" ♋	-13°04'14"	01°37'22"	00°06'24"	9.513

Ephemerides year 2048

11/09/2048 00:00:00	☾	24°43'01" ♀	23°11'40"	-00°07'58"	00°06'38"	0.003
11/09/2048 00:00:00	♄	23°21'15" ♂	-23°15'57"	00°00'00"	-00°08'49"	0.002
11/09/2048 00:00:00	♃	14°13'24" ♀	23°17'36"	00°47'53"	02°51'54"	0.003
11/09/2048 00:00:00	X	00°56'55" ♂	06°13'52"	-05°56'06"	-00°00'26"	92.331
11/09/2048 00:00:00	Y	17°42'55" ♀	11°49'18"	-11°05'14"	00°00'05"	78.306
12/09/2048 00:00:00	☉	19°55'16" ♀	03°59'26"	-00°00'00"	00°58'22"	1.007
12/09/2048 00:00:00	☽	07°21'43" ♀	-17°22'36"	-03°36'43"	13°57'58"	0.002
12/09/2048 00:00:00	♁	13°50'56" ♀	-08°53'53"	-03°43'48"	00°17'43"	0.782
12/09/2048 00:00:00	♂	18°20'09" ♀	-06°42'35"	00°30'56"	01°13'05"	1.429
12/09/2048 00:00:00	♂	26°48'47" ♂	-26°24'18"	0-03°00'41"	00°34'04"	0.848
12/09/2048 00:00:00	♂	28°53'53" ♀	22°55'01"	-00°30'40"	00°06'38"	5.133
12/09/2048 00:00:00	♃	09°21'42" ♂	-22°41'12"	00°24'59"	-00°00'04"	9.652
12/09/2048 00:00:00	♂	12°05'39" ♀	07°41'58"	00°43'55"	00°03'44"	19.289
12/09/2048 00:00:00	♁	23°48'24" ♂	17°00'25"	-01°46'01"	-00°00'31"	29.360
12/09/2048 00:00:00	♂	06°40'49" ♂	-20°55'04"	-12°48'58"	-00°01'14"	40.174
12/09/2048 00:00:00	♄	23°13'50" ♂	-23°15'35"	00°00'00"	-00°05'57"	0.002
12/09/2048 00:00:00	♂	09°28'26" ♀	-13°06'07"	01°37'31"	00°06'27"	9.526
12/09/2048 00:00:00	☾	24°49'39" ♀	23°11'03"	-00°08'51"	00°06'38"	0.003
12/09/2048 00:00:00	♄	23°13'50" ♂	-23°15'35"	00°00'00"	-00°05'57"	0.002

Ephemerides year 2048

12/09/2048 00:00:00	T♄	17°23'16" ♀	23°20'44"	00°30'46"	03°22'48"	0.003
12/09/2048 00:00:00	X	00°56'29" ♂	06°13'43"	-05°56'06"	-00°00'26"	92.319
12/09/2048 00:00:00	Y	17°43'01" ♀	11°49'10"	-11°05'23"	00°00'04"	78.289
13/09/2048 00:00:00	☉	20°53'39" ♍	03°36'29"	-00°00'00"	00°58'24"	1.006
13/09/2048 00:00:00	☾	21°22'02" ♎	-20°39'41"	-02°39'24"	14°02'17"	0.002
13/09/2048 00:00:00	♀	14°05'56" ♋	-09°04'40"	-03°49'10"	00°12'14"	0.768
13/09/2048 00:00:00	♀	19°33'14" ♋	-07°12'43"	00°28'17"	01°13'04"	1.424
13/09/2048 00:00:00	♂	27°23'00" ♌	-26°24'02"	0-02°59'39"	00°34'21"	0.854
13/09/2048 00:00:00	♃	29°00'28" ♀	22°55'05"	-00°30'39"	00°06'29"	5.118
13/09/2048 00:00:00	♅	09°21'41" ♌	-22°41'19"	00°24'52"	00°00'01"	9.668
13/09/2048 00:00:00	♁	12°09'23" ♍	07°40'33"	00°43'55"	00°03'44"	19.286
13/09/2048 00:00:00	♃	23°47'52" ♂	17°00'14"	-01°46'04"	-00°00'33"	29.345
13/09/2048 00:00:00	♁	06°39'35" ♋	-20°55'30"	-12°48'56"	-00°01'13"	40.179
13/09/2048 00:00:00	♁	23°09'17" ♌	-23°15'21"	00°00'00"	-00°03'10"	0.002
13/09/2048 00:00:00	♁	09°34'56" ♎	-13°08'01"	01°37'40"	00°06'31"	9.539
13/09/2048 00:00:00	♄	24°56'18" ♀	23°10'25"	-00°09'44"	00°06'38"	0.003
13/09/2048 00:00:00	T♁	23°09'17" ♌	-23°15'21"	00°00'00"	-00°03'10"	0.002
13/09/2048 00:00:00	T♄	20°48'46" ♀	23°19'13"	00°12'22"	03°23'18"	0.003
13/09/2048 00:00:00	X	00°56'02" ♂	06°13'33"	-05°56'07"	-00°00'27"	92.308



Ephemerides year 2048

13/09/2048 00:00:00	Y	17°43'05" ♀	11°49'02"	-11°05'31"	00°00'04"	78.272
14/09/2048 00:00:00	☉	21°52'05" ♍	03°13'28"	-00°00'00"	00°58'26"	1.006
14/09/2048 00:00:00	☾	05°25'44" ♋	-22°42'47"	-01°32'07"	14°04'52"	0.002
14/09/2048 00:00:00	♀	14°15'19" ♋	-09°12'33"	-03°53'45"	00°06'26"	0.754
14/09/2048 00:00:00	♀	20°46'18" ♋	-07°42'43"	00°25'36"	01°13'03"	1.418
14/09/2048 00:00:00	♂	27°57'30" ♋	-26°23'36"	o-02°58'36"	00°34'37"	0.860
14/09/2048 00:00:00	♃	29°06'53" ♀	22°55'08"	-00°30'38"	00°06'20"	5.102
14/09/2048 00:00:00	♅	09°21'46" ♌	-22°41'26"	00°24'45"	00°00'07"	9.684
14/09/2048 00:00:00	♁	12°13'08" ♍	07°39'07"	00°43'56"	00°03'44"	19.283
14/09/2048 00:00:00	♃	23°47'17" ♌	17°00'02"	-01°46'07"	-00°00'35"	29.330
14/09/2048 00:00:00	♁	06°38'21" ♋	-20°55'56"	-12°48'53"	-00°01'13"	40.184
14/09/2048 00:00:00	♁	23°07'16" ♋	-23°15'14"	00°00'00"	-00°01'02"	0.002
14/09/2048 00:00:00	♃	09°41'29" ♍	-13°09'55"	01°37'49"	00°06'35"	9.553
14/09/2048 00:00:00	♀	25°02'57" ♀	23°09'47"	-00°10'37"	00°06'38"	0.003
14/09/2048 00:00:00	T♁	23°07'16" ♋	-23°15'14"	00°00'00"	-00°01'02"	0.002
14/09/2048 00:00:00	T♀	24°02'01" ♀	23°13'04"	-00°04'49"	03°00'40"	0.003
14/09/2048 00:00:00	X	00°55'34" ♌	06°13'23"	-05°56'07"	-00°00'27"	92.297
14/09/2048 00:00:00	Y	17°43'09" ♀	11°48'55"	-11°05'39"	00°00'03"	78.255
15/09/2048 00:00:00	☉	22°50'31" ♍	02°50'24"	00°00'00"	00°58'27"	1.006

Ephemerides year 2048

15/09/2048 00:00:00	♃	19°31'24" ♄	-23°20'06"	-00°18'59"	14°06'19"	0.002
15/09/2048 00:00:00	♆	14°18'42" ♁	-09°17'18"	-03°57'29"	00°00'18"	0.740
15/09/2048 00:00:00	♀	21°59'21" ♁	-08°12'33"	00°22'53"	01°13'02"	1.413
15/09/2048 00:00:00	♂	28°32'15" ♄	-26°23'00"	-02°57'32"	00°34'53"	0.865
15/09/2048 00:00:00	♃	29°13'08" ♀	22°55'12"	-00°30'37"	00°06'10"	5.087
15/09/2048 00:00:00	♄	09°21'57" ♁	-22°41'33"	00°24'38"	00°00'13"	9.700
15/09/2048 00:00:00	♃	12°16'52" ♃	07°37'42"	00°43'56"	00°03'43"	19.280
15/09/2048 00:00:00	♃	23°46'40" ♃	16°59'50"	-01°46'10"	-00°00'37"	29.315
15/09/2048 00:00:00	♃	06°37'08" ♃	-20°56'21"	-12°48'50"	-00°01'12"	40.190
15/09/2048 00:00:00	♃	23°06'50" ♄	-23°15'13"	00°00'00"	-00°00'02"	0.002
15/09/2048 00:00:00	♃	09°48'06" ♃	-13°11'51"	01°37'59"	00°06'38"	9.566
15/09/2048 00:00:00	♃	25°09'35" ♀	23°09'09"	-00°11'30"	00°06'38"	0.003
15/09/2048 00:00:00	♃	23°06'50" ♄	-23°15'13"	00°00'00"	-00°00'02"	0.002
15/09/2048 00:00:00	♃	26°49'06" ♀	23°04'04"	-00°19'36"	02°35'02"	0.003
15/09/2048 00:00:00	X	00°55'07" ♃	06°13'13"	-05°56'07"	-00°00'27"	92.286
15/09/2048 00:00:00	Y	17°43'12" ♀	11°48'47"	-11°05'47"	00°00'02"	78.238
16/09/2048 00:00:00	♃	23°49'00" ♃	02°27'17"	00°00'00"	00°58'29"	1.005
16/09/2048 00:00:00	♃	03°38'08" ♁	-22°27'35"	00°55'23"	14°06'59"	0.002
16/09/2048 00:00:00	♆	14°15'49" ♁	-09°18'42"	-04°00'14"	-00°06'08"	0.726

Ephemerides year 2048

16/09/2048 00:00:00	♀	23°12'22" ♈	-08°42'13"	00°20'07"	01°13'00"	1.408
16/09/2048 00:00:00	♂	29°07'16" ♏	-26°22'15" ♁	-02°56'28"	00°35'08"	0.871
16/09/2048 00:00:00	♃	29°19'15" ♈	22°55'15"	-00°30'36"	00°06'01"	5.072
16/09/2048 00:00:00	♅	09°22'13" ♎	-22°41'39"	00°24'30"	00°00'19"	9.716
16/09/2048 00:00:00	♁	12°20'35" ♎	07°36'17"	00°43'57"	00°03'43"	19.276
16/09/2048 00:00:00	♃	23°46'02" ♏	16°59'38"	-01°46'13"	-00°00'39"	29.300
16/09/2048 00:00:00	♁	06°35'56" ♏	-20°56'46"	-12°48'47"	-00°01'12"	40.196
16/09/2048 00:00:00	♁	23°06'44" ♏	-23°15'13"	00°00'00"	-00°00'22"	0.002
16/09/2048 00:00:00	♃	09°54'47" ♎	-13°13'48"	01°38'08"	00°06'42"	9.578
16/09/2048 00:00:00	♁	25°16'14" ♈	23°08'30"	-00°12'23"	00°06'38"	0.003
16/09/2048 00:00:00	♁	23°06'44" ♏	-23°15'13"	00°00'00"	-00°00'22"	0.002
16/09/2048 00:00:00	♁	29°18'05" ♈	22°53'09"	-00°32'42"	02°26'35"	0.003
16/09/2048 00:00:00	X	00°54'39" ♏	06°13'04"	-05°56'08"	-00°00'28"	92.276
16/09/2048 00:00:00	Y	17°43'15" ♈	11°48'39"	-11°05'55"	00°00'01"	78.221
17/09/2048 00:00:00	♁	24°47'30" ♎	02°04'07"	00°00'00"	00°58'30"	1.005
17/09/2048 00:00:00	♃	17°45'03" ♎	-20°10'02"	02°06'22"	14°06'38"	0.002
17/09/2048 00:00:00	♃	14°06'20" ♏	-09°16'31"	-04°01'52"	-00°12'50"	0.714
17/09/2048 00:00:00	♀	24°25'23" ♈	-09°11'43"	00°17'19"	01°12'59"	1.402
17/09/2048 00:00:00	♂	29°42'31" ♏	-26°21'21" ♁	-02°55'24"	00°35'22"	0.877

Ephemerides year 2048

17/09/2048 00:00:00	♃	29°25'11" ♀	22°55'17"	-00°30'35"	00°05'51"	5.057
17/09/2048 00:00:00	♅	09°22'36" ♂	-22°41'44"	00°24'23"	00°00'25"	9.732
17/09/2048 00:00:00	♆	12°24'18" ♀	07°34'52"	00°43'57"	00°03'42"	19.273
17/09/2048 00:00:00	♆	23°45'22" ♂	16°59'25"	-01°46'16"	-00°00'41"	29.286
17/09/2048 00:00:00	♁	06°34'44" ♀	-20°57'10"	-12°48'44"	-00°01'11"	40.202
17/09/2048 00:00:00	♁	23°05'39" ♂	-23°15'09"	00°00'00"	-00°01'58"	0.002
17/09/2048 00:00:00	♁	10°01'31" ♀	-13°15'45"	01°38'18"	00°06'45"	9.591
17/09/2048 00:00:00	♁	25°22'53" ♀	23°07'51"	-00°13'16"	00°06'38"	0.003
17/09/2048 00:00:00	♁	23°05'39" ♂	-23°15'09"	00°00'00"	-00°01'58"	0.002
17/09/2048 00:00:00	♁	01°48'09" ♀	22°39'21"	-00°45'52"	02°35'03"	0.003
17/09/2048 00:00:00	X	00°54'10" ♂	06°12'54"	-05°56'08"	-00°00'28"	92.265
17/09/2048 00:00:00	Y	17°43'16" ♀	11°48'31"	-11°06'03"	00°00'01"	78.204
18/09/2048 00:00:00	♁	25°46'02" ♀	01°40'55"	00°00'00"	00°58'32"	1.005
18/09/2048 00:00:00	♁	01°50'54" ♀	-16°39'48"	03°09'27"	14°04'42"	0.002
18/09/2048 00:00:00	♁	13°50'03" ♀	-09°10'32"	-04°02'16"	-00°19'45"	0.701
18/09/2048 00:00:00	♁	25°38'21" ♀	-09°41'00"	00°14'29"	01°12'57"	1.397
18/09/2048 00:00:00	♁	00°18'02" ♂	-26°20'16"	-02°54'19"	00°35'37"	0.883
18/09/2048 00:00:00	♃	29°30'58" ♀	22°55'20"	-00°30'34"	00°05'41"	5.042
18/09/2048 00:00:00	♅	09°23'04" ♂	-22°41'50"	00°24'16"	00°00'31"	9.748

Ephemerides year 2048

18/09/2048 00:00:00	♃	12°28'00"	♍	07°33'28"	00°43'58"	00°03'41"	19.269
18/09/2048 00:00:00	♃	23°44'40"	♏	16°59'12"	-01°46'19"	-00°00'42"	29.272
18/09/2048 00:00:00	♃	06°33'32"	♄	-20°57'34"	-12°48'40"	-00°01'11"	40.208
18/09/2048 00:00:00	♁	23°02'28"	♄	-23°14'59"	00°00'00"	-00°04'30"	0.002
18/09/2048 00:00:00	♃	10°08'18"	♍	-13°17'43"	01°38'28"	00°06'49"	9.603
18/09/2048 00:00:00	♁	25°29'32"	♁	23°07'12"	-00°14'09"	00°06'38"	0.003
18/09/2048 00:00:00	♁	23°02'28"	♄	-23°14'59"	00°00'00"	-00°04'30"	0.002
18/09/2048 00:00:00	♁	04°27'37"	♁	22°21'35"	-00°59'54"	02°41'50"	0.003
18/09/2048 00:00:00	X	00°53'41"	♏	06°12'44"	-05°56'08"	-00°00'29"	92.255
18/09/2048 00:00:00	Y	17°43'17"	♁	11°48'23"	-11°06'11"	00°00'00"	78.187
19/09/2048 00:00:00	♁	26°44'35"	♍	01°17'40"	00°00'00"	00°58'34"	1.005
19/09/2048 00:00:00	♃	15°53'39"	♁	-12°14'01"	04°00'43"	14°00'18"	0.002
19/09/2048 00:00:00	♁	13°26'47"	♄	-09°00'33"	-04°01'17"	-00°26'46"	0.690
19/09/2048 00:00:00	♁	26°51'18"	♁	-10°10'05"	00°11'37"	01°12'56"	1.391
19/09/2048 00:00:00	♁	00°53'46"	♁	-26°19'00"	-02°53'13"	00°35'51"	0.889
19/09/2048 00:00:00	♁	29°36'35"	♁	22°55'22"	-00°30'33"	00°05'32"	5.026
19/09/2048 00:00:00	♁	09°23'38"	♁	-22°41'54"	00°24'09"	00°00'37"	9.764
19/09/2048 00:00:00	♃	12°31'42"	♍	07°32'04"	00°43'59"	00°03'41"	19.264
19/09/2048 00:00:00	♃	23°43'56"	♏	16°58'58"	-01°46'22"	-00°00'44"	29.257

Ephemerides year 2048

19/09/2048 00:00:00	♁	06°32'21" ♋	-20°57'58"	-12°48'36"	-00°01'10"	40.214
19/09/2048 00:00:00	♁	22°56'31" ♋	-23°14'41"	00°00'00"	-00°07'23"	0.002
19/09/2048 00:00:00	♁	10°15'09" ♋	-13°19'42"	01°38'37"	00°06'52"	9.616
19/09/2048 00:00:00	♁	25°36'10" ♋	23°06'32"	-00°15'02"	00°06'38"	0.003
19/09/2048 00:00:00	♁	22°56'31" ♋	-23°14'41"	00°00'00"	-00°07'23"	0.002
19/09/2048 00:00:00	♁	07°05'19" ♋	22°00'52"	-01°13'49"	02°29'31"	0.003
19/09/2048 00:00:00	X	00°53'11" ♋	06°12'33"	-05°56'08"	-00°00'29"	92.246
19/09/2048 00:00:00	Y	17°43'17" ♋	11°48'15"	-11°06'19"	-00°00'00"	78.170
20/09/2048 00:00:00	♁	27°43'10" ♋	00°54'24"	00°00'00"	00°58'35"	1.004
20/09/2048 00:00:00	♁	29°50'25" ♋	-07°11'42"	04°37'10"	13°52'39"	0.003
20/09/2048 00:00:00	♁	12°56'29" ♋	-08°46'24"	-03°58'47"	-00°33'48"	0.680
20/09/2048 00:00:00	♁	28°04'14" ♋	-10°38'58"	00°08'43"	01°12'54"	1.385
20/09/2048 00:00:00	♁	01°29'44" ♋	-26°17'35"	-02°52'08"	00°36'04"	0.894
20/09/2048 00:00:00	♁	29°42'02" ♋	22°55'24"	-00°30'32"	00°05'22"	5.011
20/09/2048 00:00:00	♁	09°24'19" ♋	-22°41'59"	00°24'02"	00°00'43"	9.780
20/09/2048 00:00:00	♁	12°35'23" ♋	07°30'40"	00°43'59"	00°03'40"	19.260
20/09/2048 00:00:00	♁	23°43'11" ♋	16°58'44"	-01°46'25"	-00°00'46"	29.243
20/09/2048 00:00:00	♁	06°31'10" ♋	-20°58'20"	-12°48'32"	-00°01'10"	40.221
20/09/2048 00:00:00	♁	22°47'45" ♋	-23°14'12"	00°00'00"	-00°10'02"	0.002

Ephemerides year 2048

20/09/2048 00:00:00	♄	10°22'03" ♎	-13°21'42"	01°38'47"	00°06'55"	9.628
20/09/2048 00:00:00	♁	25°42'49" ♉	23°05'52"	-00°15'55"	00°06'38"	0.003
20/09/2048 00:00:00	♁♂	22°47'45" ♎♂	-23°14'12"	00°00'00"	-00°10'02"	0.002
20/09/2048 00:00:00	♁♄	09°18'05" ♎♄	21°40'55"	-01°25'41"	01°51'45"	0.003
20/09/2048 00:00:00	X	00°52'42" ♄♂	06°12'23"	-05°56'08"	-00°00'30"	92.236
20/09/2048 00:00:00	Y	17°43'16" ♎♂	11°48'07"	-11°06'27"	-00°00'01"	78.153
21/09/2048 00:00:00	♁	28°41'46" ♎♁	00°31'06"	00°00'00"	00°58'37"	1.004
21/09/2048 00:00:00	♁	13°37'43" ♎♁	-01°51'47"	04°56'56"	13°41'20"	0.003
21/09/2048 00:00:00	♁♂	12°19'14" ♎♂♂	-08°28'01"	-03°54'39"	-00°40'40"	0.671
21/09/2048 00:00:00	♁♂	29°17'08" ♎♂♂	-11°07'36"	00°05'47"	01°12'53"	1.380
21/09/2048 00:00:00	♁♂	02°05'56" ♎♂♂	-26°15'59"	♁-02°51'02"	00°36'18"	0.900
21/09/2048 00:00:00	♁♂	29°47'19" ♎♂♂	22°55'25"	-00°30'31"	00°05'12"	4.996
21/09/2048 00:00:00	♁♂	09°25'04" ♎♂♂	-22°42'03"	00°23'55"	00°00'48"	9.796
21/09/2048 00:00:00	♁♂	12°39'03" ♎♂♂	07°29'16"	00°44'00"	00°03'39"	19.255
21/09/2048 00:00:00	♁♂	23°42'23" ♎♂♂	16°58'30"	-01°46'28"	-00°00'48"	29.230
21/09/2048 00:00:00	♁♂	06°30'00" ♎♂♂	-20°58'43"	-12°48'27"	-00°01'09"	40.228
21/09/2048 00:00:00	♁♂	22°36'42" ♎♂♂	-23°13'36"	00°00'00"	-00°11'54"	0.002
21/09/2048 00:00:00	♁♂	10°29'00" ♎♂♂	-13°23'42"	01°38'57"	00°06'58"	9.640
21/09/2048 00:00:00	♁♂	25°49'27" ♎♂♂	23°05'12"	-00°16'48"	00°06'38"	0.003

Ephemerides year 2048

21/09/2048 00:00:00	T♄	22°36'42" ♏	-23°13'36"	00°00'00"	-00°11'54"	0.002
21/09/2048 00:00:00	T♄	10°41'17" ♏	21°26'57"	-01°33'29"	00°51'33"	0.003
21/09/2048 00:00:00	X	00°52'11" ♏	06°12'13"	-05°56'08"	-00°00'30"	92.227
21/09/2048 00:00:00	Y	17°43'14" ♏	11°47'59"	-11°06'35"	-00°00'02"	78.136
22/09/2048 00:00:00	♁	29°40'25" ♏	00°07'47"	00°00'00"	00°58'39"	1.004
22/09/2048 00:00:00	♂	27°11'56" ♏	03°28'03"	04°59'32"	13°26'34"	0.003
22/09/2048 00:00:00	♀	11°35'16" ♏	-08°05'20"	-03°48'45"	-00°47'11"	0.663
22/09/2048 00:00:00	♀	00°30'01" ♏	-11°36'00"	00°02'50"	01°12'52"	1.374
22/09/2048 00:00:00	♂	02°42'21" ♏	-26°14'12"	0°02'49'55"	00°36'31"	0.906
22/09/2048 00:00:00	♂	29°52'26" ♏	22°55'27"	-00°30'30"	00°05'02"	4.980
22/09/2048 00:00:00	♂	09°25'56" ♏	-22°42'06"	00°23'47"	00°00'54"	9.813
22/09/2048 00:00:00	♂	12°42'42" ♏	07°27'53"	00°44'01"	00°03'38"	19.250
22/09/2048 00:00:00	♂	23°41'34" ♏	16°58'15"	-01°46'31"	-00°00'50"	29.216
22/09/2048 00:00:00	♂	06°28'51" ♏	-20°59'05"	-12°48'22"	-00°01'09"	40.235
22/09/2048 00:00:00	♁	22°24'19" ♏	-23°12'54"	00°00'00"	-00°12'38"	0.002
22/09/2048 00:00:00	♂	10°36'00" ♏	-13°25'43"	01°39'07"	00°07'01"	9.651
22/09/2048 00:00:00	♂	25°56'06" ♏	23°04'32"	-00°17'41"	00°06'38"	0.003
22/09/2048 00:00:00	T♄	22°24'19" ♏	-23°12'54"	00°00'00"	-00°12'38"	0.002
22/09/2048 00:00:00	T♄	10°56'56" ♏	21°23'24"	-01°35'48"	-00°21'13"	0.003



Ephemerides year 2048

22/09/2048 00:00:00	X	00°51'41"	06°12'02"	-05°56'08"	-00°00'30"	92.218
22/09/2048 00:00:00	Y	17°43'12"	11°47'51"	-11°06'43"	-00°00'02"	78.119
23/09/2048 00:00:00		00°39'05"	-00°15'32"	00°00'00"	00°58'41"	1.003
23/09/2048 00:00:00		10°29'58"	08°31'57"	04°45'39"	13°09'08"	0.003
23/09/2048 00:00:00		10°45'01"	-07°38'28"	-03°40'59"	-00°53'10"	0.657
23/09/2048 00:00:00		01°42'52"	-12°04'09"	-00°00'09"	01°12'50"	1.369
23/09/2048 00:00:00		03°18'58"	-26°12'14"	o-02°48'49"	00°36'44"	0.912
23/09/2048 00:00:00		29°57'23"	22°55'28"	-00°30'29"	00°04'51"	4.965
23/09/2048 00:00:00		09°26'54"	-22°42'09"	00°23'40"	00°01'00"	9.829
23/09/2048 00:00:00		12°46'20"	07°26'30"	00°44'01"	00°03'38"	19.244
23/09/2048 00:00:00		23°40'43"	16°58'00"	-01°46'34"	-00°00'51"	29.202
23/09/2048 00:00:00		06°27'42"	-20°59'26"	-12°48'16"	-00°01'08"	40.243
23/09/2048 00:00:00		22°11'50"	-23°12'11"	00°00'00"	-00°12'06"	0.002
23/09/2048 00:00:00		10°43'03"	-13°27'45"	01°39'17"	00°07'04"	9.663
23/09/2048 00:00:00		26°02'45"	23°03'51"	-00°18'34"	00°06'38"	0.003
23/09/2048 00:00:00	TΩ	22°11'50"	-23°12'11"	00°00'00"	-00°12'06"	0.002
23/09/2048 00:00:00	T♄	09°59'48"	21°31'28"	-01°32'09"	-01°31'01"	0.003
23/09/2048 00:00:00	X	00°51'10"	06°11'52"	-05°56'08"	-00°00'31"	92.209
23/09/2048 00:00:00	Y	17°43'08"	11°47'43"	-11°06'51"	-00°00'03"	78.102

Ephemerides year 2048

24/09/2048 00:00:00	☉	01°37'48" ♈	-00°38'52"	00°00'00"	00°58'43"	1.003
24/09/2048 00:00:00	☾	23°29'46" ♏	13°06'00"	04°17'04"	12°50'23"	0.003
24/09/2048 00:00:00	☿	09°49'10" ♈	-07°07'35"	-03°31'20"	-00°58'22"	0.653
24/09/2048 00:00:00	♀	02°55'42" ♍	-12°32'01"	-00°03'09"	01°12'49"	1.363
24/09/2048 00:00:00	♂	03°55'49" ♎	-26°10'05"	0-02°47'41"	00°36'56"	0.918
24/09/2048 00:00:00	♃	00°02'10" ♉	22°55'29"	-00°30'28"	00°04'41"	4.950
24/09/2048 00:00:00	♄	09°27'57" ♎	-22°42'12"	00°23'33"	00°01'06"	9.846
24/09/2048 00:00:00	♅	12°49'58" ♍	07°25'07"	00°44'02"	00°03'37"	19.239
24/09/2048 00:00:00	♆	23°39'51" ♏	16°57'44"	-01°46'37"	-00°00'53"	29.189
24/09/2048 00:00:00	♇	06°26'34" ♏	-20°59'47"	-12°48'11"	-00°01'07"	40.251
24/09/2048 00:00:00	♁	22°00'28" ♏	-23°11'30"	00°00'00"	-00°10'28"	0.002
24/09/2048 00:00:00	♂	10°50'09" ♍	-13°29'47"	01°39'27"	00°07'07"	9.674
24/09/2048 00:00:00	♁	26°09'23" ♉	23°03'09"	-00°19'27"	00°06'38"	0.003
24/09/2048 00:00:00	♁	22°00'28" ♏	-23°11'30"	00°00'00"	-00°10'28"	0.002
24/09/2048 00:00:00	♁	08°01'51" ♉	21°48'10"	-01°23'21"	-02°20'08"	0.003
24/09/2048 00:00:00	X	00°50'38" ♏	06°11'41"	-05°56'08"	-00°00'31"	92.200
24/09/2048 00:00:00	Y	17°43'04" ♏	11°47'34"	-11°06'59"	-00°00'04"	78.086
25/09/2048 00:00:00	☉	02°36'32" ♈	-01°02'13"	00°00'00"	00°58'45"	1.003
25/09/2048 00:00:00	☾	06°10'49" ♏	16°58'32"	03°36'13"	12°31'51"	0.003

Ephemerides year 2048

25/09/2048 00:00:00	♀	08°48'37" ♈	-06°33'03"	-03°19'44"	-01°02'32"	0.650
25/09/2048 00:00:00	♀	04°08'31" ♎	-12°59'37"	-00°06'11"	01°12'48"	1.357
25/09/2048 00:00:00	♂	04°32'52" ♍	-26°07'44"	-02°46'34"	00°37'09"	0.923
25/09/2048 00:00:00	♃	00°06'47" ♉	22°55'29"	-00°30'27"	00°04'31"	4.935
25/09/2048 00:00:00	♃	09°29'07" ♍	-22°42'14"	00°23'26"	00°01'12"	9.862
25/09/2048 00:00:00	♃	12°53'35" ♎	07°23'45"	00°44'03"	00°03'36"	19.233
25/09/2048 00:00:00	♃	23°38'57" ♎	16°57'28"	-01°46'39"	-00°00'55"	29.176
25/09/2048 00:00:00	♃	06°25'26" ♈	-21°00'07"	-12°48'05"	-00°01'07"	40.259
25/09/2048 00:00:00	♁	21°51'09" ♈	-23°10'56"	00°00'00"	-00°08'04"	0.002
25/09/2048 00:00:00	♁	10°57'18" ♎	-13°31'50"	01°39'37"	00°07'10"	9.685
25/09/2048 00:00:00	♁	26°16'02" ♈	23°02'28"	-00°20'20"	00°06'38"	0.003
25/09/2048 00:00:00	T♁	21°51'09" ♈	-23°10'56"	00°00'00"	-00°08'04"	0.002
25/09/2048 00:00:00	T♁	05°30'23" ♉	22°07'43"	-01°11'26"	-02°37'08"	0.003
25/09/2048 00:00:00	X	00°50'07" ♎	06°11'31"	-05°56'08"	-00°00'31"	92.192
25/09/2048 00:00:00	Y	17°42'59" ♈	11°47'26"	-11°07'07"	-00°00'05"	78.069
26/09/2048 00:00:00	☉	03°35'19" ♈	-01°25'34"	00°00'00"	00°58'47"	1.003
26/09/2048 00:00:00	☾	18°34'06" ♎	20°00'08"	02°45'52"	12°15'07"	0.003
26/09/2048 00:00:00	♀	07°44'31" ♈	-05°55'21"	-03°06'17"	-01°05'26"	0.649
26/09/2048 00:00:00	♀	05°21'18" ♎	-13°26'56"	-00°09'15"	01°12'46"	1.351

Ephemerides year 2048

26/09/2048 00:00:00	♂	05°10'07" ♃	-26°05'13" ♁	-02°45'26"	00°37'21"	0.929
26/09/2048 00:00:00	♃	00°11'12" ♁	22°55'30"	-00°30'26"	00°04'20"	4.919
26/09/2048 00:00:00	♃	09°30'22" ♃	-22°42'16"	00°23'19"	00°01'18"	9.878
26/09/2048 00:00:00	♃	12°57'11" ♃	07°22'23"	00°44'04"	00°03'35"	19.227
26/09/2048 00:00:00	♃	23°38'01" ♃	16°57'12"	-01°46'42"	-00°00'56"	29.163
26/09/2048 00:00:00	♃	06°24'19" ♃	-21°00'26"	-12°47'58"	-00°01'06"	40.267
26/09/2048 00:00:00	♃	21°44'26" ♃	-23°10'31"	00°00'00"	-00°05'20"	0.002
26/09/2048 00:00:00	♃	11°04'31" ♃	-13°33'53"	01°39'48"	00°07'13"	9.696
26/09/2048 00:00:00	♃	26°22'40" ♃	23°01'46"	-00°21'13"	00°06'38"	0.003
26/09/2048 00:00:00	♃	21°44'26" ♃	-23°10'31"	00°00'00"	-00°05'20"	0.002
26/09/2048 00:00:00	♃	02°57'42" ♃	22°24'57"	-00°59'01"	-02°24'08"	0.003
26/09/2048 00:00:00	X	00°49'35" ♃	06°11'20"	-05°56'07"	-00°00'32"	92.184
26/09/2048 00:00:00	Y	17°42'54" ♃	11°47'18"	-11°07'15"	-00°00'05"	78.053
27/09/2048 00:00:00	♃	04°34'08" ♃	-01°48'54"	00°00'00"	00°58'50"	1.002
27/09/2048 00:00:00	♃	00°42'07" ♃	22°03'55"	01°48'47"	12°01'32"	0.003
27/09/2048 00:00:00	♃	06°38'13" ♃	-05°15'08"	-02°51'03"	-01°06'52"	0.651
27/09/2048 00:00:00	♃	06°34'05" ♃	-13°53'56"	-00°12'19"	01°12'45"	1.346
27/09/2048 00:00:00	♂	05°47'35" ♃	-26°02'30" ♁	-02°44'18"	00°37'33"	0.935
27/09/2048 00:00:00	♃	00°15'28" ♁	22°55'31"	-00°30'25"	00°04'10"	4.904

Ephemerides year 2048

27/09/2048 00:00:00	♃	09°31'43" ♀	-22°42'17"	00°23'12"	00°01'24"	9.895
27/09/2048 00:00:00	♅	13°00'46" ♀	07°21'01"	00°44'05"	00°03'34"	19.220
27/09/2048 00:00:00	♆	23°37'03" ♂	16°56'55"	-01°46'45"	-00°00'58"	29.150
27/09/2048 00:00:00	♁	06°23'13" ♀	-21°00'46"	-12°47'52"	-00°01'05"	40.276
27/09/2048 00:00:00	♄	21°40'23" ♂	-23°10'16"	00°00'00"	-00°02'48"	0.002
27/09/2048 00:00:00	♆	11°11'46" ♀	-13°35'57"	01°39'58"	00°07'16"	9.707
27/09/2048 00:00:00	♁	26°29'19" ♀	23°01'04"	-00°22'06"	00°06'38"	0.003
27/09/2048 00:00:00	♄	21°40'23" ♂	-23°10'16"	00°00'00"	-00°02'48"	0.002
27/09/2048 00:00:00	♁	00°47'35" ♀	22°37'37"	-00°48'11"	-01°54'47"	0.003
27/09/2048 00:00:00	X	00°49'02" ♂	06°11'09"	-05°56'07"	-00°00'32"	92.176
27/09/2048 00:00:00	Y	17°42'48" ♀	11°47'09"	-11°07'23"	-00°00'06"	78.036
28/09/2048 00:00:00	♁	05°32'59" ♀	-02°12'14"	00°00'00"	00°58'52"	1.002
28/09/2048 00:00:00	♁	12°38'36" ♀	23°05'40"	00°47'39"	11°52'12"	0.003
28/09/2048 00:00:00	♆	05°31'18" ♀	-04°33'10"	-02°34'14"	-01°06'40"	0.654
28/09/2048 00:00:00	♆	07°46'49" ♀	-14°20'38"	-00°15'25"	01°12'44"	1.340
28/09/2048 00:00:00	♂	06°25'14" ♀	-25°59'35"	-02°43'09"	00°37'45"	0.941
28/09/2048 00:00:00	♁	00°19'33" ♀	22°55'31"	-00°30'24"	00°03'59"	4.889
28/09/2048 00:00:00	♃	09°33'10" ♀	-22°42'18"	00°23'05"	00°01'29"	9.912
28/09/2048 00:00:00	♅	13°04'20" ♀	07°19'40"	00°44'06"	00°03'33"	19.214

Ephemerides year 2048

28/09/2048 00:00:00	♁	23°36'04"	♄r	16°56'38"	-01°46'47"	-00°00'59"	29.138
28/09/2048 00:00:00	♁	06°22'08"	♄r	-21°01'04"	-12°47'45"	-00°01'04"	40.285
28/09/2048 00:00:00	♁	21°38'37"	♄r	-23°10'09"	00°00'00"	-00°00'51"	0.002
28/09/2048 00:00:00	♁	11°19'03"	♄	-13°38'02"	01°40'09"	00°07'19"	9.718
28/09/2048 00:00:00	♁	26°35'58"	♁	23°00'21"	-00°22'59"	00°06'38"	0.003
28/09/2048 00:00:00	T♁	21°38'37"	♄r	-23°10'09"	00°00'00"	-00°00'51"	0.002
28/09/2048 00:00:00	T♁	29°08'06"	♁r	22°46'04"	-00°39'43"	-01°25'19"	0.003
28/09/2048 00:00:00	X	00°48'30"	♄r	06°10'59"	-05°56'07"	-00°00'32"	92.169
28/09/2048 00:00:00	Y	17°42'41"	♁r	11°47'01"	-11°07'30"	-00°00'07"	78.020
29/09/2048 00:00:00	♁	06°31'52"	♁	-02°35'33"	-00°00'00"	00°58'54"	1.002
29/09/2048 00:00:00	♁	24°28'11"	♁	23°03'58"	-00°15'03"	11°47'50"	0.003
29/09/2048 00:00:00	♁	04°25'27"	♁r	-03°50'21"	-02°16'03"	-01°04'44"	0.661
29/09/2048 00:00:00	♁	08°59'33"	♄	-14°46'59"	-00°18'31"	01°12'42"	1.334
29/09/2048 00:00:00	♁	07°03'04"	♄	-25°56'28"	-02°42'00"	00°37'56"	0.947
29/09/2048 00:00:00	♁	00°23'27"	♁	22°55'31"	-00°30'23"	00°03'48"	4.874
29/09/2048 00:00:00	♁	09°34'43"	♄	-22°42'18"	00°22'58"	00°01'35"	9.928
29/09/2048 00:00:00	♁	13°07'53"	♄	07°18'19"	00°44'07"	00°03'32"	19.207
29/09/2048 00:00:00	♁	23°35'04"	♄r	16°56'20"	-01°46'50"	-00°01'01"	29.125
29/09/2048 00:00:00	♁	06°21'04"	♄r	-21°01'22"	-12°47'38"	-00°01'04"	40.294

Ephemerides year 2048

29/09/2048 00:00:00	♏	21°38'21" ♂	-23°10'08"	00°00'00"	00°00'09"	0.002
29/09/2048 00:00:00	♋	11°26'24" ♀	-13°40'07"	01°40'19"	00°07'21"	9.728
29/09/2048 00:00:00	♌	26°42'36" ♀	22°59'38"	-00°23'52"	00°06'38"	0.003
29/09/2048 00:00:00	♏	21°38'21" ♂	-23°10'08"	00°00'00"	00°00'09"	0.002
29/09/2048 00:00:00	♌	27°52'55" ♀	22°51'46"	-00°33'10"	-01°07'41"	0.003
29/09/2048 00:00:00	X	00°47'57" ♂	06°10'48"	-05°56'06"	-00°00'32"	92.161
29/09/2048 00:00:00	Y	17°42'33" ♀	11°46'53"	-11°07'38"	-00°00'08"	78.003
30/09/2048 00:00:00	♏	07°30'48" ♀	-02°58'50"	-00°00'00"	00°58'56"	1.002
30/09/2048 00:00:00	♎	06°16'06" ♀	22°00'06"	-01°17'02"	11°48'54"	0.003
30/09/2048 00:00:00	♌	03°22'25" ♀	-03°07'39"	-01°56'48"	-01°01'03"	0.669
30/09/2048 00:00:00	♌	10°12'15" ♀	-15°13'01"	-00°21'38"	01°12'41"	1.328
30/09/2048 00:00:00	♌	07°41'07" ♂	-25°53'10"	-02°40'51"	00°38'07"	0.953
30/09/2048 00:00:00	♌	00°27'10" ♀	22°55'32"	-00°30'22"	00°03'37"	4.858
30/09/2048 00:00:00	♌	09°36'22" ♂	-22°42'18"	00°22'51"	00°01'41"	9.945
30/09/2048 00:00:00	♌	13°11'25" ♀	07°16'59"	00°44'08"	00°03'31"	19.200
30/09/2048 00:00:00	♌	23°34'01" ♂	16°56'02"	-01°46'53"	-00°01'03"	29.113
30/09/2048 00:00:00	♌	06°20'00" ♀	-21°01'39"	-12°47'30"	-00°01'03"	40.303
30/09/2048 00:00:00	♏	21°38'34" ♂	-23°10'09"	00°00'00"	00°00'05"	0.002
30/09/2048 00:00:00	♋	11°33'47" ♀	-13°42'13"	01°40'30"	00°07'24"	9.738

Ephemerides year 2048

30/09/2048 00:00:00	☾	26°49'15" ♀	22°58'55"	-00°24'45"	00°06'38"	0.003
30/09/2048 00:00:00	♄	21°38'34" ♂	-23°10'09"	00°00'00"	00°00'05"	0.002
30/09/2048 00:00:00	♄	26°46'40" ♀	22°56'18"	-00°27'18"	-01°08'02"	0.003
30/09/2048 00:00:00	X	00°47'24" ♂	06°10'37"	-05°56'06"	-00°00'33"	92.154
30/09/2048 00:00:00	Y	17°42'24" ♀	11°46'44"	-11°07'46"	-00°00'08"	77.987
01/10/2048 00:00:00	☉	08°29'46" ♀	-03°22'06"	-00°00'00"	00°58'59"	1.001
01/10/2048 00:00:00	☾	18°07'50" ♀	19°57'29"	-02°16'02"	11°55'29"	0.003
01/10/2048 00:00:00	♃	02°23'54" ♀	-02°26'04"	-01°36'50"	-00°55'42"	0.680
01/10/2048 00:00:00	♀	11°24'56" ♀	-15°38'41"	-00°24'46"	01°12'40"	1.322
01/10/2048 00:00:00	♂	08°19'20" ♂	-25°49'39"	0-02°39'41"	00°38'19"	0.959
01/10/2048 00:00:00	♃	00°30'42" ♀	22°55'32"	-00°30'21"	00°03'26"	4.843
01/10/2048 00:00:00	♃	09°38'06" ♂	-22°42'17"	00°22'44"	00°01'47"	9.961
01/10/2048 00:00:00	♃	13°14'56" ♀	07°15'39"	00°44'09"	00°03'30"	19.192
01/10/2048 00:00:00	♃	23°32'58" ♂	16°55'44"	-01°46'55"	-00°01'04"	29.101
01/10/2048 00:00:00	♃	06°18'57" ♀	-21°01'56"	-12°47'23"	-00°01'02"	40.313
01/10/2048 00:00:00	♄	21°38'10" ♂	-23°10'08"	00°00'00"	-00°01'01"	0.002
01/10/2048 00:00:00	♃	11°41'13" ♀	-13°44'19"	01°40'41"	00°07'27"	9.748
01/10/2048 00:00:00	☾	26°55'54" ♀	22°58'12"	-00°25'38"	00°06'38"	0.003
01/10/2048 00:00:00	♄	21°38'10" ♂	-23°10'08"	00°00'00"	-00°01'01"	0.002



Ephemerides year 2048

01/10/2048 00:00:00	T♄	25°30'25" ♀	23°00'48"	-00°20'35"	-01°27'32"	0.003
01/10/2048 00:00:00	X	00°46'51" ♂	06°10'26"	-05°56'05"	-00°00'33"	92.148
01/10/2048 00:00:00	Y	17°42'15" ♀	11°46'36"	-11°07'53"	-00°00'09"	77.971
02/10/2048 00:00:00	☉	09°28'46" ♀	-03°45'19"	-00°00'00"	00°59'01"	1.001
02/10/2048 00:00:00	☾	00°08'51" ♀	17°01'19"	-03°09'45"	12°07'22"	0.003
02/10/2048 00:00:00	♁	01°31'31" ♀	-01°46'33"	-01°16'28"	-00°48'49"	0.694
02/10/2048 00:00:00	♂	12°37'35" ♀	-16°03'59"	-00°27'55"	01°12'38"	1.317
02/10/2048 00:00:00	♂	08°57'45" ♀	-25°45'57"	-02°38'31"	00°38'29"	0.965
02/10/2048 00:00:00	♂	00°34'03" ♀	22°55'32"	-00°30'20"	00°03'15"	4.828
02/10/2048 00:00:00	♂	09°39'56" ♀	-22°42'16"	00°22'37"	00°01'52"	9.978
02/10/2048 00:00:00	♂	13°18'25" ♀	07°14'19"	00°44'10"	00°03'29"	19.185
02/10/2048 00:00:00	♂	23°31'52" ♂	16°55'26"	-01°46'58"	-00°01'06"	29.089
02/10/2048 00:00:00	♂	06°17'55" ♀	-21°02'12"	-12°47'15"	-00°01'01"	40.323
02/10/2048 00:00:00	♂	21°36'13" ♀	-23°10'00"	00°00'00"	-00°03'00"	0.002
02/10/2048 00:00:00	♂	11°48'41" ♀	-13°46'25"	01°40'51"	00°07'29"	9.758
02/10/2048 00:00:00	♂	27°02'33" ♀	22°57'28"	-00°26'31"	00°06'38"	0.003
02/10/2048 00:00:00	T♄	21°36'13" ♀	-23°10'00"	00°00'00"	-00°03'00"	0.002
02/10/2048 00:00:00	T♄	23°46'20" ♀	23°05'39"	-00°11'32"	-02°02'35"	0.003
02/10/2048 00:00:00	X	00°46'17" ♂	06°10'15"	-05°56'04"	-00°00'33"	92.141

Ephemerides year 2048

02/10/2048 00:00:00	Y	17°42'05" ♀	11°46'27"	-11°08'01"	-00°00'10"	77.955
03/10/2048 00:00:00	☉	10°27'49" ♄	-04°08'30"	-00°00'00"	00°59'03"	1.001
03/10/2048 00:00:00	☾	12°24'09" ♃	13°18'05"	-03°55'48"	12°23'55"	0.003
03/10/2048 00:00:00	♀	00°46'41" ♄	-01°10'00"	-00°56'04"	-00°40'37"	0.709
03/10/2048 00:00:00	♀	13°50'13" ♃	-16°28'54"	-00°31'03"	01°12'37"	1.311
03/10/2048 00:00:00	♂	09°36'20" ♄	-25°42'02"	0-02°37'21"	00°38'40"	0.971
03/10/2048 00:00:00	♃	00°37'13" ♄	22°55'33"	-00°30'19"	00°03'04"	4.813
03/10/2048 00:00:00	♃	09°41'52" ♄	-22°42'15"	00°22'30"	00°01'58"	9.994
03/10/2048 00:00:00	♃	13°21'54" ♃	07°13'00"	00°44'11"	00°03'27"	19.177
03/10/2048 00:00:00	♃	23°30'45" ♄	16°55'07"	-01°47'00"	-00°01'07"	29.078
03/10/2048 00:00:00	♃	06°16'54" ♃	-21°02'28"	-12°47'06"	-00°01'00"	40.333
03/10/2048 00:00:00	♃	21°32'00" ♄	-23°09'44"	00°00'00"	-00°05'27"	0.002
03/10/2048 00:00:00	♃	11°56'12" ♃	-13°48'32"	01°41'02"	00°07'31"	9.768
03/10/2048 00:00:00	♃	27°09'11" ♃	22°56'44"	-00°27'23"	00°06'38"	0.003
03/10/2048 00:00:00	T♃	21°32'00" ♄	-23°09'44"	00°00'00"	-00°05'27"	0.002
03/10/2048 00:00:00	T♃	21°23'06" ♃	23°09'57"	00°00'47"	-02°43'48"	0.003
03/10/2048 00:00:00	X	00°45'43" ♄	06°10'05"	-05°56'04"	-00°00'34"	92.135
03/10/2048 00:00:00	Y	17°41'54" ♃	11°46'19"	-11°08'09"	-00°00'11"	77.939
04/10/2048 00:00:00	☉	11°26'54" ♄	-04°31'38"	-00°00'00"	00°59'05"	1.000

Ephemerides year 2048

04/10/2048 00:00:00	♃	24°57'54" ♈	08°55'31"	-04°31'40"	12°44'04"	0.003
04/10/2048 00:00:00	♆	00°10'36" ♎	-00°37'13"	-00°35'58"	-00°31'23"	0.727
04/10/2048 00:00:00	♀	15°02'50" ♍	-16°53'26"	-00°34'13"	01°12'36"	1.305
04/10/2048 00:00:00	♂	10°15'06" ♌	-25°37'55" ♋	-02°36'10"	00°38'51"	0.977
04/10/2048 00:00:00	♃	00°40'11" ♈	22°55'33"	-00°30'18"	00°02'52"	4.798
04/10/2048 00:00:00	♃	09°43'53" ♌	-22°42'13"	00°22'23"	00°02'04"	10.011
04/10/2048 00:00:00	♃	13°25'21" ♌	07°11'42"	00°44'12"	00°03'26"	19.169
04/10/2048 00:00:00	♃	23°29'37" ♌	16°54'47"	-01°47'02"	-00°01'09"	29.066
04/10/2048 00:00:00	♃	06°15'54" ♌	-21°02'43"	-12°46'58"	-00°00'59"	40.343
04/10/2048 00:00:00	♃	21°25'17" ♌	-23°09'18"	00°00'00"	-00°07'57"	0.002
04/10/2048 00:00:00	♃	12°03'45" ♌	-13°50'40"	01°41'14"	00°07'34"	9.777
04/10/2048 00:00:00	♃	27°15'50" ♌	22°55'59"	-00°28'16"	00°06'38"	0.003
04/10/2048 00:00:00	♃	21°25'17" ♌	-23°09'18"	00°00'00"	-00°07'57"	0.002
04/10/2048 00:00:00	♃	18°21'40" ♌	23°11'33"	00°16'13"	-03°16'09"	0.003
04/10/2048 00:00:00	X	00°45'09" ♌	06°09'54"	-05°56'03"	-00°00'34"	92.129
04/10/2048 00:00:00	Y	17°41'43" ♌	11°46'11"	-11°08'16"	-00°00'11"	77.924
05/10/2048 00:00:00	♃	12°26'01" ♌	-04°54'43"	-00°00'00"	00°59'08"	1.000
05/10/2048 00:00:00	♃	07°53'00" ♌	04°02'50"	-04°54'48"	13°06'19"	0.003
05/10/2048 00:00:00	♆	29°44'10" ♎	-00°08'50"	-00°16'29"	-00°21'22"	0.747

Ephemerides year 2048

05/10/2048 00:00:00	♀	16°15'26" ♍	-17°17'34"	-00°37'22"	01°12'34"	1.299
05/10/2048 00:00:00	♂	10°54'03" ♍	-25°33'35"	o-02°34'59"	00°39'01"	0.983
05/10/2048 00:00:00	♃	00°42'59" ♄	22°55'33"	-00°30'17"	00°02'41"	4.783
05/10/2048 00:00:00	♃	09°46'00" ♍	-22°42'11"	00°22'16"	00°02'09"	10.028
05/10/2048 00:00:00	♃	13°28'47" ♍	07°10'24"	00°44'13"	00°03'25"	19.160
05/10/2048 00:00:00	♃	23°28'27" ♄	16°54'28"	-01°47'05"	-00°01'10"	29.055
05/10/2048 00:00:00	♃	06°14'54" ♃	-21°02'58"	-12°46'49"	-00°00'58"	40.354
05/10/2048 00:00:00	♁	21°16'14" ♃	-23°08'43"	00°00'00"	-00°10'00"	0.002
05/10/2048 00:00:00	♃	12°11'21" ♍	-13°52'47"	01°41'25"	00°07'36"	9.786
05/10/2048 00:00:00	♃	27°22'28" ♃	22°55'14"	-00°29'09"	00°06'38"	0.003
05/10/2048 00:00:00	T♁	21°16'14" ♃	-23°08'43"	00°00'00"	-00°10'00"	0.002
05/10/2048 00:00:00	T♃	14°59'03" ♃	23°08'18"	00°33'15"	-03°24'01"	0.003
05/10/2048 00:00:00	X	00°44'34" ♄	06°09'43"	-05°56'02"	-00°00'34"	92.124
05/10/2048 00:00:00	Y	17°41'30" ♃	11°46'02"	-11°08'24"	-00°00'12"	77.908
06/10/2048 00:00:00	♁	13°25'10" ♃	-05°17'44"	-00°00'00"	00°59'10"	1.000
06/10/2048 00:00:00	♃	21°10'36" ♍	-01°08'40"	-05°02'53"	13°28'44"	0.003
06/10/2048 00:00:00	♃	29°28'01" ♄	00°14'40"	00°02'07"	-00°10'53"	0.769
06/10/2048 00:00:00	♀	17°28'00" ♍	-17°41'17"	-00°40'31"	01°12'33"	1.293
06/10/2048 00:00:00	♂	11°33'10" ♍	-25°29'03"	o-02°33'48"	00°39'12"	0.989

Ephemerides year 2048

06/10/2048 00:00:00	♃	00°45'34" ♉	22°55'34"	-00°30'15"	00°02'29"	4.768
06/10/2048 00:00:00	♃	09°48'13" ♉	-22°42'08"	00°22'09"	00°02'15"	10.044
06/10/2048 00:00:00	♃	13°32'11" ♉	07°09'07"	00°44'14"	00°03'23"	19.152
06/10/2048 00:00:00	♃	23°27'15" ♉	16°54'08"	-01°47'07"	-00°01'12"	29.044
06/10/2048 00:00:00	♃	06°13'56" ♉	-21°03'11"	-12°46'40"	-00°00'58"	40.365
06/10/2048 00:00:00	♃	21°05'34" ♉	-23°08'01"	00°00'00"	-00°11'09"	0.002
06/10/2048 00:00:00	♃	12°18'58" ♉	-13°54'55"	01°41'36"	00°07'38"	9.795
06/10/2048 00:00:00	♃	27°29'07" ♉	22°54'29"	-00°30'02"	00°06'38"	0.003
06/10/2048 00:00:00	T♃	21°05'34" ♉	-23°08'01"	00°00'00"	-00°11'09"	0.002
06/10/2048 00:00:00	T♃	11°44'04" ♉	23°00'09"	00°49'22"	-03°01'04"	0.003
06/10/2048 00:00:00	X	00°44'00" ♉	06°09'32"	-05°56'01"	-00°00'34"	92.118
06/10/2048 00:00:00	Y	17°41'17" ♉	11°45'54"	-11°08'31"	-00°00'13"	77.892
07/10/2048 00:00:00	♃	14°24'21" ♉	-05°40'41"	-00°00'00"	00°59'12"	1.000
07/10/2048 00:00:00	♃	04°49'51" ♉	-06°25'04"	-04°54'09"	13°49'16"	0.003
07/10/2048 00:00:00	♃	29°22'27" ♉	00°32'57"	00°19'38"	-00°00'13"	0.793
07/10/2048 00:00:00	♃	18°40'32" ♉	-18°04'34"	-00°43'41"	01°12'31"	1.287
07/10/2048 00:00:00	♃	12°12'27" ♉	-25°24'18"	o-02°32'36"	00°39'22"	0.995
07/10/2048 00:00:00	♃	00°47'58" ♉	22°55'34"	-00°30'14"	00°02'18"	4.753
07/10/2048 00:00:00	♃	09°50'31" ♉	-22°42'04"	00°22'02"	00°02'21"	10.061

Ephemerides year 2048

07/10/2048 00:00:00	♃	13°35'34"	♍	07°07'50"	00°44'16"	00°03'22"	19.143
07/10/2048 00:00:00	♃	23°26'03"	♏	16°53'48"	-01°47'09"	-00°01'13"	29.034
07/10/2048 00:00:00	♃	06°12'58"	♄	-21°03'25"	-12°46'30"	-00°00'57"	40.376
07/10/2048 00:00:00	♁	20°54'18"	♄	-23°07'15"	00°00'00"	-00°11'10"	0.002
07/10/2048 00:00:00	♃	12°26'38"	♍	-13°57'03"	01°41'48"	00°07'41"	9.804
07/10/2048 00:00:00	♁	27°35'46"	♁	22°53'44"	-00°30'55"	00°06'38"	0.003
07/10/2048 00:00:00	♁	20°54'18"	♄	-23°07'15"	00°00'00"	-00°11'10"	0.002
07/10/2048 00:00:00	♁	09°04'26"	♁	22°49'49"	01°02'16"	-02°15'52"	0.003
07/10/2048 00:00:00	♁	00°43'25"	♏	06°09'21"	-05°56'00"	-00°00'35"	92.113
07/10/2048 00:00:00	♁	17°41'03"	♁	11°45'45"	-11°08'38"	-00°00'14"	77.877
08/10/2048 00:00:00	♁	15°23'34"	♁	-06°03'33"	-00°00'00"	00°59'14"	0.999
08/10/2048 00:00:00	♁	18°47'52"	♁	-11°29'17"	-04°27'50"	14°05'59"	0.002
08/10/2048 00:00:00	♁	29°27'33"	♍	00°45'50"	00°35'54"	00°10'23"	0.818
08/10/2048 00:00:00	♁	19°53'03"	♍	-18°27'24"	-00°46'50"	01°12'30"	1.281
08/10/2048 00:00:00	♁	12°51'54"	♁	-25°19'20"	-02°31'24"	00°39'32"	1.001
08/10/2048 00:00:00	♁	00°50'11"	♁	22°55'35"	-00°30'13"	00°02'06"	4.738
08/10/2048 00:00:00	♁	09°52'55"	♁	-22°42'00"	00°21'55"	00°02'26"	10.077
08/10/2048 00:00:00	♃	13°38'56"	♍	07°06'33"	00°44'17"	00°03'20"	19.134
08/10/2048 00:00:00	♃	23°24'48"	♏	16°53'27"	-01°47'12"	-00°01'14"	29.023

Ephemerides year 2048

08/10/2048 00:00:00	♁	06°12'02" ♃r	-21°03'37"	-12°46'21"	-00°00'56"	40.387
08/10/2048 00:00:00	♁	20°43'37" ♃r	-23°06'31"	00°00'00"	-00°09'59"	0.002
08/10/2048 00:00:00	♃	12°34'20" ♃	-13°59'12"	01°41'59"	00°07'43"	9.812
08/10/2048 00:00:00	♁	27°42'24" ♃	22°52'58"	-00°31'47"	00°06'38"	0.003
08/10/2048 00:00:00	♁	20°43'37" ♃r	-23°06'31"	00°00'00"	-00°09'59"	0.002
08/10/2048 00:00:00	♁	07°13'41" ♃r	22°40'38"	01°10'59"	-01°26'32"	0.003
08/10/2048 00:00:00	X	00°42'50" ♃r	06°09'10"	-05°55'59"	-00°00'35"	92.109
08/10/2048 00:00:00	Y	17°40'49" ♃r	11°45'37"	-11°08'45"	-00°00'14"	77.862
09/10/2048 00:00:00	♁	16°22'50" ♃	-06°26'21"	-00°00'00"	00°59'16"	0.999
09/10/2048 00:00:00	♃	03°00'07" ♃	-16°01'27"	-03°44'37"	14°17'34"	0.002
09/10/2048 00:00:00	♃	29°43'08" ♃	00°53'17"	00°50'46"	00°20'43"	0.844
09/10/2048 00:00:00	♃	21°05'33" ♃	-18°49'47"	-00°49'59"	01°12'28"	1.275
09/10/2048 00:00:00	♃	13°31'31" ♃	-25°14'10"	-02°30'12"	00°39'41"	1.007
09/10/2048 00:00:00	♃	00°52'12" ♃	22°55'35"	-00°30'11"	00°01'55"	4.723
09/10/2048 00:00:00	♃	09°55'25" ♃	-22°41'56"	00°21'49"	00°02'32"	10.094
09/10/2048 00:00:00	♃	13°42'16" ♃	07°05'18"	00°44'18"	00°03'19"	19.124
09/10/2048 00:00:00	♃	23°23'33" ♃r	16°53'06"	-01°47'14"	-00°01'16"	29.013
09/10/2048 00:00:00	♁	06°11'06" ♃r	-21°03'49"	-12°46'11"	-00°00'54"	40.399
09/10/2048 00:00:00	♁	20°34'38" ♃r	-23°05'53"	00°00'00"	-00°07'50"	0.002

Ephemerides year 2048

































09/10/2048 00:00:00	♁	12°42'05" ♍	-14°01'21"	01°42'11"	00°07'45"	9.821
09/10/2048 00:00:00	♁	27°49'03" ♍	22°52'12"	-00°32'40"	00°06'38"	0.003
09/10/2048 00:00:00	♁	20°34'38" ♍	-23°05'53"	00°00'00"	-00°07'50"	0.002
09/10/2048 00:00:00	♁	06°06'55" ♍	22°34'16"	01°16'05"	-00°50'14"	0.003
09/10/2048 00:00:00	X	00°42'14" ♍	06°08'59"	-05°55'58"	-00°00'35"	92.104
09/10/2048 00:00:00	Y	17°40'34" ♍	11°45'28"	-11°08'53"	-00°00'15"	77.847
10/10/2048 00:00:00	♁	17°22'07" ♍	-06°49'04"	-00°00'00"	00°59'18"	0.999
10/10/2048 00:00:00	♁	17°21'08" ♍	-19°40'19"	-02°46'43"	14°23'30"	0.002
10/10/2048 00:00:00	♁	00°08'51" ♍	00°55'23"	01°04'12"	00°30'35"	0.871
10/10/2048 00:00:00	♁	22°18'01" ♍	-19°11'43"	-00°53'07"	01°12'27"	1.268
10/10/2048 00:00:00	♁	14°11'18" ♍	-25°08'47"	0-02°28'59"	00°39'51"	1.013
10/10/2048 00:00:00	♁	00°54'01" ♍	22°55'36"	-00°30'10"	00°01'43"	4.709
10/10/2048 00:00:00	♁	09°58'00" ♍	-22°41'51"	00°21'42"	00°02'38"	10.110
10/10/2048 00:00:00	♁	13°45'34" ♍	07°04'02"	00°44'20"	00°03'17"	19.115
10/10/2048 00:00:00	♁	23°22'16" ♍	16°52'45"	-01°47'16"	-00°01'17"	29.003
10/10/2048 00:00:00	♁	06°10'12" ♍	-21°04'00"	-12°46'01"	-00°00'53"	40.411
10/10/2048 00:00:00	♁	20°28'06" ♍	-23°05'25"	00°00'00"	-00°05'09"	0.002
10/10/2048 00:00:00	♁	12°49'51" ♍	-14°03'30"	01°42'23"	00°07'47"	9.829
10/10/2048 00:00:00	♁	27°55'42" ♍	22°51'26"	-00°33'33"	00°06'38"	0.003



Ephemerides year 2048

10/10/2048 00:00:00	T♄	20°28'06" ♏	-23°05'25"	00°00'00"	-00°05'09"	0.002
10/10/2048 00:00:00	T♄	05°25'42" ♏	22°30'05"	01°19'14"	-00°36'03"	0.003
10/10/2048 00:00:00	X	00°41'39" ♏	06°08'48"	-05°55'57"	-00°00'35"	92.100
10/10/2048 00:00:00	Y	17°40'18" ♏	11°45'20"	-11°09'00"	-00°00'16"	77.831
11/10/2048 00:00:00	☉	18°21'27" ♏	-07°11'41"	-00°00'00"	00°59'20"	0.998
11/10/2048 00:00:00	☾	01°45'23" ♏	-22°06'16"	-01°37'51"	14°24'12"	0.002
11/10/2048 00:00:00	♁	00°44'08" ♏	00°52'18"	01°16'07"	00°39'52"	0.899
11/10/2048 00:00:00	♀	23°30'27" ♏	-19°33'09"	-00°56'15"	01°12'25"	1.262
11/10/2048 00:00:00	♂	14°51'14" ♏	-25°03'11"	-02°27'47"	00°40'00"	1.019
11/10/2048 00:00:00	♂	00°55'38" ♏	22°55'37"	-00°30'08"	00°01'31"	4.694
11/10/2048 00:00:00	♃	10°00'41" ♏	-22°41'46"	00°21'35"	00°02'43"	10.127
11/10/2048 00:00:00	♃	13°48'51" ♏	07°02'48"	00°44'21"	00°03'16"	19.105
11/10/2048 00:00:00	♃	23°20'58" ♏	16°52'24"	-01°47'18"	-00°01'18"	28.993
11/10/2048 00:00:00	♃	06°09'18" ♏	-21°04'11"	-12°45'50"	-00°00'52"	40.423
11/10/2048 00:00:00	♄	20°24'18" ♏	-23°05'08"	00°00'00"	-00°02'30"	0.002
11/10/2048 00:00:00	♄	12°57'39" ♏	-14°05'39"	01°42'34"	00°07'49"	9.836
11/10/2048 00:00:00	♄	28°02'20" ♏	22°50'39"	-00°34'26"	00°06'38"	0.003
11/10/2048 00:00:00	T♄	20°24'18" ♏	-23°05'08"	00°00'00"	-00°02'30"	0.002
11/10/2048 00:00:00	T♄	04°48'08" ♏	22°26'19"	01°22'18"	-00°41'21"	0.003

Ephemerides year 2048

11/10/2048 00:00:00	X	00°41'03" 	06°08'37"	-05°55'55"	-00°00'35"	92.096
11/10/2048 00:00:00	Y	17°40'01" 	11°45'11"	-11°09'07"	-00°00'16"	77.817
12/10/2048 00:00:00		19°20'48" 	-07°34'13"	-00°00'00"	00°59'22"	0.998
12/10/2048 00:00:00		16°08'09" 	-23°05'15"	-00°22'42"	14°20'42"	0.002
12/10/2048 00:00:00		01°28'21" 	00°44'17"	01°26'33"	00°48'27"	0.927
12/10/2048 00:00:00		24°42'52" 	-19°54'06"	-00°59'22"	01°12'23"	1.256
12/10/2048 00:00:00		15°31'19" 	-24°57'22"	o-02°26'34"	00°40'09"	1.025
12/10/2048 00:00:00		00°57'04" 	22°55'37"	-00°30'07"	00°01'19"	4.680
12/10/2048 00:00:00		10°03'27" 	-22°41'40"	00°21'28"	00°02'49"	10.143
12/10/2048 00:00:00		13°52'07" 	07°01'34"	00°44'22"	00°03'14"	19.095
12/10/2048 00:00:00		23°19'38" 	16°52'02"	-01°47'20"	-00°01'19"	28.984
12/10/2048 00:00:00		06°08'26" 	-21°04'21"	-12°45'40"	-00°00'51"	40.435
12/10/2048 00:00:00		20°22'54" 	-23°05'02"	00°00'00"	-00°00'25"	0.002
12/10/2048 00:00:00		13°05'29" 	-14°07'48"	01°42'47"	00°07'51"	9.844
12/10/2048 00:00:00		28°08'59" 	22°49'52"	-00°35'18"	00°06'38"	0.003
12/10/2048 00:00:00	TΩ	20°22'54" 	-23°05'02"	00°00'00"	-00°00'25"	0.002
12/10/2048 00:00:00	T♄	04°01'56" 	22°21'40"	01°26'18"	-00°49'19"	0.003
12/10/2048 00:00:00	X	00°40'28" 	06°08'26"	-05°55'54"	-00°00'35"	92.093
12/10/2048 00:00:00	Y	17°39'44" 	11°45'03"	-11°09'14"	-00°00'17"	77.802

Ephemerides year 2048

13/10/2048 00:00:00	☉	20°20'11" ♌	-07°56'38"	00°00'00"	00°59'23"	0.998
13/10/2048 00:00:00	☾	00°25'52" ♍	-22°32'20"	00°53'34"	14°14'21"	0.002
13/10/2048 00:00:00	♃	02°20'47" ♌	00°31'40"	01°35'30"	00°56'16"	0.955
13/10/2048 00:00:00	♀	25°55'14" ♎	-20°14'33"	-01°02'28"	01°12'21"	1.250
13/10/2048 00:00:00	♂	16°11'33" ♍	-24°51'20"	0-02°25'21"	00°40'18"	1.031
13/10/2048 00:00:00	♃	00°58'18" ♉	22°55'38"	-00°30'05"	00°01'07"	4.665
13/10/2048 00:00:00	♄	10°06'19" ♍	-22°41'34"	00°21'22"	00°02'54"	10.159
13/10/2048 00:00:00	♅	13°55'21" ♎	07°00'21"	00°44'24"	00°03'13"	19.085
13/10/2048 00:00:00	♆	23°18'18" ♏	16°51'40"	-01°47'22"	-00°01'21"	28.975
13/10/2048 00:00:00	♁	06°07'35" ♏	-21°04'30"	-12°45'29"	-00°00'50"	40.447
13/10/2048 00:00:00	♁	20°23'06" ♏	-23°05'03"	00°00'00"	00°00'38"	0.002
13/10/2048 00:00:00	♂	13°13'21" ♎	-14°09'58"	01°42'59"	00°07'52"	9.851
13/10/2048 00:00:00	♁	28°15'38" ♏	22°49'04"	-00°36'11"	00°06'38"	0.003
13/10/2048 00:00:00	♁	20°23'06" ♏	-23°05'03"	00°00'00"	00°00'38"	0.002
13/10/2048 00:00:00	♁	03°18'00" ♏	22°17'07"	01°30'12"	-00°32'03"	0.003
13/10/2048 00:00:00	X	00°39'52" ♏	06°08'15"	-05°55'53"	-00°00'35"	92.089
13/10/2048 00:00:00	Y	17°39'26" ♏	11°44'54"	-11°09'21"	-00°00'18"	77.787
14/10/2048 00:00:00	☉	21°19'36" ♌	-08°18'56"	00°00'00"	00°59'25"	0.998
14/10/2048 00:00:00	☾	14°36'19" ♍	-20°32'43"	02°05'58"	14°06'21"	0.002

Ephemerides year 2048

14/10/2048 00:00:00	♀	03°20'38" ♈	00°14'48"	01°43'02"	01°03'18"	0.983
14/10/2048 00:00:00	♀	27°07'35" ♍	-20°34'29"	-01°05'33"	01°12'19"	1.244
14/10/2048 00:00:00	♂	16°51'55" ♎	-24°45'06"	0-02°24'07"	00°40'26"	1.037
14/10/2048 00:00:00	♃	00°59'20" ♉	22°55'40"	-00°30'04"	00°00'56"	4.651
14/10/2048 00:00:00	♅	10°09'16" ♌	-22°41'27"	00°21'15"	00°02'59"	10.176
14/10/2048 00:00:00	♁	13°58'33" ♋	06°59'08"	00°44'25"	00°03'11"	19.074
14/10/2048 00:00:00	♃	23°16'56" ♉	16°51'18"	-01°47'24"	-00°01'22"	28.966
14/10/2048 00:00:00	♁	06°06'45" ♋	-21°04'39"	-12°45'18"	-00°00'49"	40.460
14/10/2048 00:00:00	♁	20°23'46" ♉	-23°05'06"	00°00'00"	00°00'30"	0.002
14/10/2048 00:00:00	♁	13°21'15" ♋	-14°12'07"	01°43'11"	00°07'54"	9.859
14/10/2048 00:00:00	♁	28°22'17" ♋	22°48'17"	-00°37'04"	00°06'38"	0.003
14/10/2048 00:00:00	T♁	20°23'46" ♉	-23°05'06"	00°00'00"	00°00'30"	0.002
14/10/2048 00:00:00	T♁	03°14'11" ♋	22°16'49"	01°30'39"	00°32'40"	0.003
14/10/2048 00:00:00	X	00°39'16" ♉	06°08'04"	-05°55'51"	-00°00'35"	92.086
14/10/2048 00:00:00	Y	17°39'08" ♋	11°44'46"	-11°09'27"	-00°00'18"	77.773
15/10/2048 00:00:00	♁	22°19'02" ♈	-08°41'07"	00°00'00"	00°59'27"	0.997
15/10/2048 00:00:00	♃	28°38'18" ♌	-17°19'29"	03°10'02"	13°57'30"	0.002
15/10/2048 00:00:00	♀	04°27'09" ♈	-00°05'54"	01°49'11"	01°09'33"	1.011
15/10/2048 00:00:00	♀	28°19'53" ♍	-20°53'53"	-01°08'37"	01°12'17"	1.237

Ephemerides year 2048

15/10/2048 00:00:00	♂	17°32'26" ♄	-24°38'39" ♁	-02°22'53"	00°40'34"	1.043
15/10/2048 00:00:00	♃	01°00'10" ♃	22°55'41"	-00°30'02"	00°00'44"	4.636
15/10/2048 00:00:00	♃	10°12'18" ♄	-22°41'20"	00°21'09"	00°03'05"	10.192
15/10/2048 00:00:00	♃	14°01'43" ♃	06°57'56"	00°44'27"	00°03'09"	19.064
15/10/2048 00:00:00	♃	23°15'33" ♃	16°50'56"	-01°47'25"	-00°01'23"	28.957
15/10/2048 00:00:00	♃	06°05'56" ♃	-21°04'47"	-12°45'06"	-00°00'48"	40.473
15/10/2048 00:00:00	♁	20°23'45" ♃	-23°05'06"	00°00'00"	-00°00'43"	0.002
15/10/2048 00:00:00	♃	13°29'10" ♃	-14°14'17"	01°43'23"	00°07'55"	9.866
15/10/2048 00:00:00	♃	28°28'56" ♃	22°47'29"	-00°37'57"	00°06'38"	0.003
15/10/2048 00:00:00	♁	20°23'45" ♃	-23°05'06"	00°00'00"	-00°00'43"	0.002
15/10/2048 00:00:00	♃	04°37'11" ♃	22°25'31"	01°23'32"	02°17'46"	0.003
15/10/2048 00:00:00	X	00°38'40" ♃	06°07'53"	-05°55'50"	-00°00'36"	92.084
15/10/2048 00:00:00	Y	17°38'48" ♃	11°44'38"	-11°09'34"	-00°00'19"	77.759
16/10/2048 00:00:00	♁	23°18'31" ♃	-09°03'11"	00°00'00"	00°59'28"	0.997
16/10/2048 00:00:00	♁	12°31'12" ♃	-13°10'01"	04°02'10"	13°48'11"	0.003
16/10/2048 00:00:00	♃	05°39'31" ♃	-00°30'06"	01°54'02"	01°15'03"	1.038
16/10/2048 00:00:00	♀	29°32'10" ♃	-21°12'45"	-01°11'40"	01°12'15"	1.231
16/10/2048 00:00:00	♂	18°13'05" ♄	-24°31'58" ♁	-02°21'40"	00°40'42"	1.049
16/10/2048 00:00:00	♃	01°00'48" ♃	22°55'42"	-00°30'00"	00°00'32"	4.622

Ephemerides year 2048

16/10/2048 00:00:00	♃	10°15'26" ♂	-22°41'12"	00°21'02"	00°03'10"	10.208
16/10/2048 00:00:00	♃	14°04'52" ♀	06°56'45"	00°44'28"	00°03'07"	19.053
16/10/2048 00:00:00	♃	23°14'09" ♂	16°50'33"	-01°47'27"	-00°01'24"	28.949
16/10/2048 00:00:00	♃	06°05'09" ♀	-21°04'55"	-12°44'55"	-00°00'47"	40.486
16/10/2048 00:00:00	♃	20°22'02" ♂	-23°04'58"	00°00'00"	-00°02'47"	0.002
16/10/2048 00:00:00	♃	13°37'07" ♀	-14°16'27"	01°43'36"	00°07'57"	9.872
16/10/2048 00:00:00	♃	28°35'34" ♀	22°46'41"	-00°38'49"	00°06'38"	0.003
16/10/2048 00:00:00	♃	20°22'02" ♂	-23°04'58"	00°00'00"	-00°02'47"	0.002
16/10/2048 00:00:00	♃	07°51'51" ♀	22°42'29"	01°06'29"	04°09'10"	0.003
16/10/2048 00:00:00	X	00°38'04" ♂	06°07'42"	-05°55'48"	-00°00'36"	92.081
16/10/2048 00:00:00	Y	17°38'28" ♀	11°44'29"	-11°09'41"	-00°00'20"	77.745
17/10/2048 00:00:00	♃	24°18'00" ♀	-09°25'07"	00°00'00"	00°59'30"	0.997
17/10/2048 00:00:00	♃	26°14'32" ♀	-08°22'35"	04°39'41"	13°38'22"	0.003
17/10/2048 00:00:00	♃	06°57'01" ♀	-00°57'22"	01°57'41"	01°19'48"	1.065
17/10/2048 00:00:00	♃	00°44'24" ♂	-21°31'03"	-01°14'42"	01°12'12"	1.225
17/10/2048 00:00:00	♃	18°53'51" ♂	-24°25'05"	0°02'20'26"	00°40'50"	1.055
17/10/2048 00:00:00	♃	01°01'14" ♀	22°55'44"	-00°29'59"	00°00'20"	4.608
17/10/2048 00:00:00	♃	10°18'39" ♂	-22°41'04"	00°20'55"	00°03'15"	10.224
17/10/2048 00:00:00	♃	14°07'58" ♀	06°55'35"	00°44'30"	00°03'05"	19.042

Ephemerides year 2048

17/10/2048 00:00:00	♁	23°12'44"	♄	16°50'10"	-01°47'29"	-00°01'25"	28.941
17/10/2048 00:00:00	♁	06°04'22"	♃	-21°05'02"	-12°44'43"	-00°00'46"	40.499
17/10/2048 00:00:00	♁	20°18'03"	♂	-23°04'41"	00°00'00"	-00°05'10"	0.002
17/10/2048 00:00:00	♁	13°45'05"	♃	-14°18'37"	01°43'48"	00°07'58"	9.879
17/10/2048 00:00:00	♁	28°42'13"	♁	22°45'52"	-00°39'42"	00°06'38"	0.003
17/10/2048 00:00:00	T♁	20°18'03"	♂	-23°04'41"	00°00'00"	-00°05'10"	0.002
17/10/2048 00:00:00	T♁	12°44'52"	♁	22°59'13"	00°40'20"	05°29'09"	0.003
17/10/2048 00:00:00	X	00°37'28"	♄	06°07'31"	-05°55'46"	-00°00'36"	92.079
17/10/2048 00:00:00	Y	17°38'07"	♁	11°44'21"	-11°09'47"	-00°00'21"	77.731
18/10/2048 00:00:00	♁	25°17'32"	♁	-09°46'54"	00°00'00"	00°59'32"	0.996
18/10/2048 00:00:00	♁	09°47'41"	♃	-03°14'38"	05°01'00"	13°27'45"	0.003
18/10/2048 00:00:00	♁	08°18'55"	♁	-01°27'20"	02°00'11"	01°23'53"	1.091
18/10/2048 00:00:00	♁	01°56'35"	♂	-21°48'48"	-01°17'42"	01°12'10"	1.219
18/10/2048 00:00:00	♁	19°34'45"	♂	-24°17'59"	02°19'12"	00°40'57"	1.061
18/10/2048 00:00:00	♁	01°01'28"	♁	22°55'46"	-00°29'57"	00°00'07"	4.594
18/10/2048 00:00:00	♁	10°21'57"	♂	-22°40'55"	00°20'49"	00°03'20"	10.240
18/10/2048 00:00:00	♁	14°11'03"	♃	06°54'25"	00°44'32"	00°03'03"	19.030
18/10/2048 00:00:00	♁	23°11'17"	♄	16°49'47"	-01°47'31"	-00°01'26"	28.933
18/10/2048 00:00:00	♁	06°03'36"	♃	-21°05'08"	-12°44'31"	-00°00'44"	40.512

Ephemerides year 2048

18/10/2048 00:00:00	♏	20°11'44" <del>♏</del> r	-23°04'13"	00°00'00"	-00°07'23"	0.002
18/10/2048 00:00:00	♋	13°53'04" ♋	-14°20'46"	01°44'01"	00°08'00"	9.885
18/10/2048 00:00:00	♏	28°48'52" ♏	22°45'03"	-00°40'34"	00°06'38"	0.003
18/10/2048 00:00:00	T♏	20°11'44" <del>♏</del> r	-23°04'13"	00°00'00"	-00°07'23"	0.002
18/10/2048 00:00:00	T♏	18°32'06" ♏	23°05'08"	00°08'53"	05°55'37"	0.003
18/10/2048 00:00:00	X	00°36'51" <del>♏</del> r	06°07'20"	-05°55'45"	-00°00'36"	92.077
18/10/2048 00:00:00	Y	17°37'46" ♏r	11°44'13"	-11°09'54"	-00°00'21"	77.717
19/10/2048 00:00:00	♏	26°17'05" ♏	-10°08'33"	00°00'00"	00°59'34"	0.996
19/10/2048 00:00:00	♏	23°09'42" ♏	01°57'50"	05°05'30"	13°16'05"	0.003
19/10/2048 00:00:00	♏	09°44'35" ♏	-01°59'38"	02°01'39"	01°27'21"	1.116
19/10/2048 00:00:00	♏	03°08'45" <del>♏</del>	-22°05'59"	-01°20'41"	01°12'08"	1.212
19/10/2048 00:00:00	♏	20°15'47" <del>♏</del>	-24°10'40"	o-02°17'57"	00°41'05"	1.067
19/10/2048 00:00:00	♏	01°01'30" <del>♏</del> r	22°55'47"	-00°29'55"	-00°00'04"	4.580
19/10/2048 00:00:00	♏	10°25'20" <del>♏</del>	-22°40'45"	00°20'42"	00°03'25"	10.256
19/10/2048 00:00:00	♏	14°14'06" ♏	06°53'16"	00°44'33"	00°03'01"	19.019
19/10/2048 00:00:00	♏	23°09'50" <del>♏</del> r	16°49'24"	-01°47'32"	-00°01'27"	28.925
19/10/2048 00:00:00	♏	06°02'52" ♏r	-21°05'13"	-12°44'18"	-00°00'43"	40.526
19/10/2048 00:00:00	♏	20°03'30" <del>♏</del> r	-23°03'37"	00°00'00"	-00°08'57"	0.002
19/10/2048 00:00:00	♏	14°01'05" ♏	-14°22'56"	01°44'14"	00°08'01"	9.891



Ephemerides year 2048

19/10/2048 00:00:00	☾	28°55'30" ♀	22°44'14"	-00°41'27"	00°06'38"	0.003
19/10/2048 00:00:00	♄	20°03'30" ♂	-23°03'37"	00°00'00"	-00°08'57"	0.002
19/10/2048 00:00:00	♄	24°17'26" ♀	22°55'57"	-00°22'38"	05°26'32"	0.003
19/10/2048 00:00:00	X	00°36'15" ♂	06°07'10"	-05°55'43"	-00°00'36"	92.076
19/10/2048 00:00:00	Y	17°37'24" ♀	11°44'04"	-11°10'00"	-00°00'22"	77.704
20/10/2048 00:00:00	☉	27°16'41" ♀	-10°30'03"	00°00'00"	00°59'36"	0.996
20/10/2048 00:00:00	☾	06°19'29" ♂	07°00'13"	04°53'40"	13°03'15"	0.003
20/10/2048 00:00:00	♀	11°13'26" ♀	-02°33'55"	02°02'09"	01°30'14"	1.141
20/10/2048 00:00:00	♀	04°20'52" ♂	-22°22'35"	-01°23'38"	01°12'05"	1.206
20/10/2048 00:00:00	♂	20°56'55" ♀	-24°03'09"	0-02°16'43"	00°41'12"	1.073
20/10/2048 00:00:00	♃	01°01'20" ♀	22°55'49"	-00°29'53"	-00°00'16"	4.567
20/10/2048 00:00:00	♃	10°28'48" ♀	-22°40'36"	00°20'36"	00°03'30"	10.272
20/10/2048 00:00:00	♃	14°17'07" ♀	06°52'08"	00°44'35"	00°02'59"	19.007
20/10/2048 00:00:00	♃	23°08'21" ♂	16°49'00"	-01°47'34"	-00°01'28"	28.918
20/10/2048 00:00:00	♃	06°02'09" ♀	-21°05'18"	-12°44'06"	-00°00'42"	40.540
20/10/2048 00:00:00	♄	19°54'08" ♂	-23°02'54"	00°00'00"	-00°09'36"	0.002
20/10/2048 00:00:00	♃	14°09'07" ♀	-14°25'06"	01°44'27"	00°08'02"	9.897
20/10/2048 00:00:00	☾	29°02'09" ♀	22°43'24"	-00°42'20"	00°06'38"	0.003
20/10/2048 00:00:00	♄	19°54'08" ♂	-23°02'54"	00°00'00"	-00°09'36"	0.002

Ephemerides year 2048

20/10/2048 00:00:00	T♄	29°10'57" ♀	22°36'19"	-00°49'29"	04°15'02"	0.003
20/10/2048 00:00:00	X	00°35'38" ♂	06°06'59"	-05°55'41"	-00°00'36"	92.074
20/10/2048 00:00:00	Y	17°37'01" ♀	11°43'56"	-11°10'07"	-00°00'23"	77.690
21/10/2048 00:00:00	☉	28°16'18" ♀	-10°51'24"	00°00'00"	00°59'38"	0.996
21/10/2048 00:00:00	☾	19°15'53" ♀	11°39'05"	04°26'50"	12°49'25"	0.003
21/10/2048 00:00:00	♀	12°44'55" ♀	-03°09'52"	02°01'47"	01°32'38"	1.164
21/10/2048 00:00:00	♀	05°32'57" ♂	-22°38'35"	-01°26'33"	01°12'03"	1.200
21/10/2048 00:00:00	♂	21°38'11" ♀	-23°55'24"	0-02°15'29"	00°41'18"	1.080
21/10/2048 00:00:00	♃	01°00'58" ♀	22°55'51"	-00°29'51"	-00°00'28"	4.553
21/10/2048 00:00:00	♄	10°32'21" ♀	-22°40'25"	00°20'29"	00°03'35"	10.288
21/10/2048 00:00:00	♅	14°20'06" ♀	06°51'00"	00°44'37"	00°02'57"	18.995
21/10/2048 00:00:00	♆	23°06'52" ♂	16°48'37"	-01°47'35"	-00°01'29"	28.911
21/10/2048 00:00:00	♇	06°01'27" ♀	-21°05'22"	-12°43'53"	-00°00'41"	40.554
21/10/2048 00:00:00	♈	19°44'37" ♂	-23°02'11"	00°00'00"	-00°09'14"	0.002
21/10/2048 00:00:00	♉	14°17'11" ♀	-14°27'15"	01°44'40"	00°08'04"	9.902
21/10/2048 00:00:00	♊	29°08'47" ♀	22°42'35"	-00°43'12"	00°06'38"	0.003
21/10/2048 00:00:00	T♈	19°44'37" ♂	-23°02'11"	00°00'00"	-00°09'14"	0.002
21/10/2048 00:00:00	T♄	02°40'26" ♀	22°15'36"	-01°08'44"	02°42'23"	0.003
21/10/2048 00:00:00	X	00°35'02" ♂	06°06'48"	-05°55'39"	-00°00'36"	92.074

Ephemerides year 2048

21/10/2048 00:00:00	Y	17°36'38" ♀	11°43'48"	-11°10'13"	-00°00'23"	77.677
22/10/2048 00:00:00	☉	29°15'57" ♄	-11°12'35"	00°00'00"	00°59'40"	0.995
22/10/2048 00:00:00	☾	01°58'10" ♄	15°42'13"	03°47'06"	12°35'07"	0.003
22/10/2048 00:00:00	♀	14°18'34" ♄	-03°47'12"	02°00'36"	01°34'35"	1.186
22/10/2048 00:00:00	♀	06°44'59" ♂	-22°53'59"	-01°29'26"	01°12'01"	1.193
22/10/2048 00:00:00	♂	22°19'33" ♄	-23°47'27"	0-02°14'14"	00°41'25"	1.086
22/10/2048 00:00:00	♃	01°00'24" ♄	22°55'54"	-00°29'49"	-00°00'40"	4.540
22/10/2048 00:00:00	♅	10°36'00" ♄	-22°40'14"	00°20'23"	00°03'40"	10.304
22/10/2048 00:00:00	♁	14°23'03" ♃	06°49'54"	00°44'38"	00°02'55"	18.983
22/10/2048 00:00:00	♃	23°05'22" ♄	16°48'13"	-01°47'37"	-00°01'30"	28.904
22/10/2048 00:00:00	♁	06°00'47" ♃	-21°05'26"	-12°43'41"	-00°00'39"	40.568
22/10/2048 00:00:00	♁	19°35'57" ♂	-23°01'30"	00°00'00"	-00°07'57"	0.002
22/10/2048 00:00:00	♃	14°25'15" ♃	-14°29'25"	01°44'54"	00°08'05"	9.908
22/10/2048 00:00:00	♀	29°15'26" ♀	22°41'44"	-00°44'05"	00°06'38"	0.003
22/10/2048 00:00:00	T♁	19°35'57" ♂	-23°01'30"	00°00'00"	-00°07'57"	0.002
22/10/2048 00:00:00	T♃	04°36'33" ♄	22°01'28"	-01°19'42"	01°12'06"	0.003
22/10/2048 00:00:00	X	00°34'25" ♄	06°06'37"	-05°55'37"	-00°00'36"	92.073
22/10/2048 00:00:00	Y	17°36'14" ♀	11°43'40"	-11°10'19"	-00°00'24"	77.664
23/10/2048 00:00:00	☉	00°15'38" ♃	-11°33'36"	00°00'00"	00°59'42"	0.995

Ephemerides year 2048

23/10/2048 00:00:00	♃	14°26'13" ♄	18°58'56"	02°57'01"	12°21'05"	0.003
23/10/2048 00:00:00	♆	15°53'59" ♁	-04°25'39"	01°58'43"	01°36'09"	1.207
23/10/2048 00:00:00	♀	07°56'59" ♀	-23°08'46"	-01°32'16"	01°11'58"	1.187
23/10/2048 00:00:00	♂	23°01'02" ♁	-23°39'16"	0-02°12'59"	00°41'32"	1.092
23/10/2048 00:00:00	♃	00°59'38" ♃	22°55'56"	-00°29'47"	-00°00'52"	4.526
23/10/2048 00:00:00	♄	10°39'43" ♁	-22°40'03"	00°20'16"	00°03'45"	10.319
23/10/2048 00:00:00	♅	14°25'58" ♃	06°48'48"	00°44'40"	00°02'53"	18.971
23/10/2048 00:00:00	♆	23°03'50" ♄	16°47'49"	-01°47'38"	-00°01'31"	28.897
23/10/2048 00:00:00	♁	06°00'08" ♃	-21°05'29"	-12°43'27"	-00°00'38"	40.582
23/10/2048 00:00:00	♁	19°28'55" ♀	-23°00'57"	00°00'00"	-00°06'01"	0.002
23/10/2048 00:00:00	♃	14°33'21" ♃	-14°31'34"	01°45'07"	00°08'06"	9.913
23/10/2048 00:00:00	♁	29°22'05" ♁	22°40'54"	-00°44'57"	00°06'38"	0.003
23/10/2048 00:00:00	♁	19°28'55" ♀	-23°00'57"	00°00'00"	-00°06'01"	0.002
23/10/2048 00:00:00	♁	05°12'16" ♃	21°56'17"	-01°23'35"	00°04'18"	0.003
23/10/2048 00:00:00	X	00°33'49" ♄	06°06'27"	-05°55'35"	-00°00'36"	92.073
23/10/2048 00:00:00	Y	17°35'49" ♁	11°43'32"	-11°10'25"	-00°00'24"	77.651
24/10/2048 00:00:00	♃	01°15'21" ♃	-11°54'27"	00°00'00"	00°59'44"	0.995
24/10/2048 00:00:00	♃	26°40'46" ♄	21°20'38"	01°59'26"	12°08'18"	0.003
24/10/2048 00:00:00	♆	17°30'46" ♁	-05°04'58"	01°56'10"	01°37'23"	1.228

Ephemerides year 2048

24/10/2048 00:00:00	♀	09°08'56" ♄	-23°22'55"	-01°35'05"	01°11'56"	1.180
24/10/2048 00:00:00	♂	23°42'38" ♄	-23°30'53"	0-02°11'44"	00°41'38"	1.098
24/10/2048 00:00:00	♃	00°58'40" ♃	22°55'58"	-00°29'45"	-00°01'04"	4.513
24/10/2048 00:00:00	♃	10°43'31" ♄	-22°39'51"	00°20'10"	00°03'50"	10.335
24/10/2048 00:00:00	♃	14°28'50" ♃	06°47'43"	00°44'42"	00°02'51"	18.958
24/10/2048 00:00:00	♃	23°02'18" ♃	16°47'24"	-01°47'39"	-00°01'32"	28.891
24/10/2048 00:00:00	♃	05°59'30" ♃	-21°05'31"	-12°43'14"	-00°00'37"	40.597
24/10/2048 00:00:00	♃	19°24'00" ♄	-23°00'34"	00°00'00"	-00°03'47"	0.002
24/10/2048 00:00:00	♃	14°41'28" ♃	-14°33'44"	01°45'21"	00°08'07"	9.918
24/10/2048 00:00:00	♃	29°28'44" ♃	22°40'03"	-00°45'50"	00°06'38"	0.003
24/10/2048 00:00:00	T♃	19°24'00" ♄	-23°00'34"	00°00'00"	-00°03'47"	0.002
24/10/2048 00:00:00	T♃	04°56'12" ♃	21°57'38"	-01°22'50"	-00°30'54"	0.003
24/10/2048 00:00:00	X	00°33'12" ♃	06°06'16"	-05°55'33"	-00°00'36"	92.073
24/10/2048 00:00:00	Y	17°35'24" ♃	11°43'24"	-11°10'31"	-00°00'25"	77.639
25/10/2048 00:00:00	♃	02°15'07" ♃	-12°15'07"	00°00'00"	00°59'46"	0.994
25/10/2048 00:00:00	♃	08°43'34" ♃	22°41'33"	00°57'12"	11°57'44"	0.003
25/10/2048 00:00:00	♃	19°08'39" ♃	-05°44'57"	01°53'03"	01°38'19"	1.247
25/10/2048 00:00:00	♀	10°20'51" ♄	-23°36'27"	0-01°37'51"	01°11'53"	1.174
25/10/2048 00:00:00	♂	24°24'20" ♄	-23°22'18"	-02°10'29"	00°41'45"	1.104

Ephemerides year 2048

25/10/2048 00:00:00	♃	00°57'30" ♉	22°56'01"	-00°29'43"	-00°01'16"	4.500
25/10/2048 00:00:00	♈	10°47'24" ♉	-22°39'38"	00°20'04"	00°03'55"	10.351
25/10/2048 00:00:00	♈	14°31'41" ♉	06°46'39"	00°44'44"	00°02'49"	18.945
25/10/2048 00:00:00	♆	23°00'46" ♉	16°47'00"	-01°47'40"	-00°01'33"	28.885
25/10/2048 00:00:00	♁	05°58'53" ♉	-21°05'32"	-12°43'01"	-00°00'35"	40.612
25/10/2048 00:00:00	♁	19°21'19" ♉	-23°00'21"	00°00'00"	-00°01'36"	0.002
25/10/2048 00:00:00	♆	14°49'36" ♉	-14°35'53"	01°45'34"	00°08'08"	9.922
25/10/2048 00:00:00	♁	29°35'22" ♉	22°39'12"	-00°46'42"	00°06'38"	0.003
25/10/2048 00:00:00	♁	19°21'19" ♉	-23°00'21"	00°00'00"	-00°01'36"	0.002
25/10/2048 00:00:00	♁	04°20'14" ♉	22°01'33"	-01°20'09"	-00°37'05"	0.003
25/10/2048 00:00:00	X	00°32'36" ♉	06°06'06"	-05°55'30"	-00°00'36"	92.073
25/10/2048 00:00:00	Y	17°34'59" ♉	11°43'16"	-11°10'36"	-00°00'25"	77.626
26/10/2048 00:00:00	♁	03°14'54" ♉	-12°35'36"	-00°00'00"	00°59'48"	0.994
26/10/2048 00:00:00	♁	20°37'18" ♉	22°59'09"	-00°06'55"	11°50'19"	0.003
26/10/2048 00:00:00	♁	20°47'21" ♉	-06°25'25"	01°49'24"	01°39'01"	1.265
26/10/2048 00:00:00	♁	11°32'44" ♉	-23°49'20"	-01°40'35"	01°11'51"	1.167
26/10/2048 00:00:00	♁	25°06'08" ♉	-23°13'29"	-02°09'14"	00°41'51"	1.111
26/10/2048 00:00:00	♃	00°56'08" ♉	22°56'04"	-00°29'40"	-00°01'28"	4.487
26/10/2048 00:00:00	♈	10°51'22" ♉	-22°39'26"	00°19'57"	00°04'00"	10.366

Ephemerides year 2048

26/10/2048 00:00:00	♃	14°34'30"	♍	06°45'35"	00°44'45"	00°02'47"	18.932
26/10/2048 00:00:00	♃	22°59'12"	♏	16°46'35"	-01°47'42"	-00°01'33"	28.879
26/10/2048 00:00:00	♃	05°58'18"	♄	-21°05'33"	-12°42'47"	-00°00'34"	40.626
26/10/2048 00:00:00	♁	19°20'39"	♂	-23°00'18"	00°00'00"	00°00'09"	0.002
26/10/2048 00:00:00	♃	14°57'45"	♍	-14°38'02"	01°45'48"	00°08'09"	9.927
26/10/2048 00:00:00	♁	29°42'01"	♁	22°38'20"	-00°47'35"	00°06'38"	0.003
26/10/2048 00:00:00	♁	19°20'39"	♂	-23°00'18"	00°00'00"	00°00'09"	0.002
26/10/2048 00:00:00	♁	03°47'19"	♏	22°05'11"	-01°17'31"	-00°27'23"	0.003
26/10/2048 00:00:00	X	00°31'59"	♏	06°05'55"	-05°55'28"	-00°00'36"	92.073
26/10/2048 00:00:00	Y	17°34'32"	♁	11°43'08"	-11°10'42"	-00°00'26"	77.614
27/10/2048 00:00:00	♁	04°14'44"	♍	-12°55'53"	-00°00'00"	00°59'50"	0.994
27/10/2048 00:00:00	♃	02°25'33"	♏	22°14'12"	-01°10'25"	11°46'54"	0.003
27/10/2048 00:00:00	♁	22°26'38"	♁	-07°06'10"	01°45'17"	01°39'30"	1.282
27/10/2048 00:00:00	♁	12°44'34"	♂	-24°01'34"	-01°43'15"	01°11'48"	1.161
27/10/2048 00:00:00	♂	25°48'03"	♁	-23°04'28"	-02°07'59"	00°41'57"	1.117
27/10/2048 00:00:00	♁	00°54'34"	♏	22°56'07"	-00°29'38"	-00°01'40"	4.474
27/10/2048 00:00:00	♁	10°55'25"	♁	-22°39'12"	00°19'51"	00°04'05"	10.381
27/10/2048 00:00:00	♃	14°37'16"	♍	06°44'33"	00°44'47"	00°02'45"	18.919
27/10/2048 00:00:00	♃	22°57'38"	♏	16°46'11"	-01°47'43"	-00°01'34"	28.874

Ephemerides year 2048

27/10/2048 00:00:00	♁	05°57'44" ♋	-21°05'34"	-12°42'33"	-00°00'33"	40.641
27/10/2048 00:00:00	♁	19°21'26" ♋	-23°00'21"	00°00'00"	00°01'16"	0.002
27/10/2048 00:00:00	♁	15°05'55" ♋	-14°40'11"	01°46'02"	00°08'10"	9.931
27/10/2048 00:00:00	♁	29°48'40" ♋	22°37'29"	-00°48'27"	00°06'38"	0.003
27/10/2048 00:00:00	♁	19°21'26" ♋	-23°00'21"	00°00'00"	00°01'16"	0.002
27/10/2048 00:00:00	♁	03°25'51" ♋	22°07'35"	-01°15'43"	-00°16'21"	0.003
27/10/2048 00:00:00	X	00°31'23" ♋	06°05'45"	-05°55'26"	-00°00'36"	92.074
27/10/2048 00:00:00	Y	17°34'06" ♋	11°43'00"	-11°10'48"	-00°00'27"	77.602
28/10/2048 00:00:00	♁	05°14'36" ♋	-13°15'58"	-00°00'00"	00°59'52"	0.994
28/10/2048 00:00:00	♁	14°12'39" ♋	20°30'19"	-02°10'53"	11°48'06"	0.003
28/10/2048 00:00:00	♁	24°06'19" ♋	-07°47'05"	01°40'46"	01°39'49"	1.298
28/10/2048 00:00:00	♁	13°56'22" ♋	-24°13'08"	-01°45'53"	01°11'46"	1.154
28/10/2048 00:00:00	♁	26°30'03" ♋	-22°55'15"	-02°06'43"	00°42'03"	1.123
28/10/2048 00:00:00	♁	00°52'47" ♋	22°56'10"	-00°29'36"	-00°01'52"	4.461
28/10/2048 00:00:00	♁	10°59'33" ♋	-22°38'58"	00°19'45"	00°04'09"	10.396
28/10/2048 00:00:00	♁	14°40'00" ♋	06°43'31"	00°44'49"	00°02'43"	18.906
28/10/2048 00:00:00	♁	22°56'02" ♋	16°45'46"	-01°47'44"	-00°01'35"	28.869
28/10/2048 00:00:00	♁	05°57'11" ♋	-21°05'33"	-12°42'20"	-00°00'31"	40.657
28/10/2048 00:00:00	♁	19°22'56" ♋	-23°00'29"	00°00'00"	00°01'35"	0.002



































Ephemerides year 2048

28/10/2048 00:00:00	♄	15°14'05" ♍	-14°42'19"	01°46'16"	00°08'10"	9.935
28/10/2048 00:00:00	♁	29°55'19" ♀	22°36'37"	-00°49'19"	00°06'38"	0.003
28/10/2048 00:00:00	♁	19°22'56" ♄	-23°00'29"	00°00'00"	00°01'35"	0.002
28/10/2048 00:00:00	♁	03°11'24" ♄	22°09'14"	-01°14'25"	-00°14'44"	0.003
28/10/2048 00:00:00	X	00°30'46" ♄	06°05'35"	-05°55'23"	-00°00'36"	92.075
28/10/2048 00:00:00	Y	17°33'38" ♄	11°42'52"	-11°10'53"	-00°00'27"	77.591
29/10/2048 00:00:00	♁	06°14'30" ♍	-13°35'51"	-00°00'00"	00°59'55"	0.993
29/10/2048 00:00:00	♁	26°03'28" ♄	17°52'58"	-03°06'07"	11°54'24"	0.003
29/10/2048 00:00:00	♁	25°46'14" ♄	-08°28'01"	01°35'52"	01°39'59"	1.313
29/10/2048 00:00:00	♀	15°08'07" ♄	-24°24'03"	01°48'28"	01°11'43"	1.148
29/10/2048 00:00:00	♁	27°12'10" ♄	-22°45'48"	-02°05'28"	00°42'09"	1.129
29/10/2048 00:00:00	♁	00°50'49" ♄	22°56'13"	-00°29'33"	-00°02'04"	4.449
29/10/2048 00:00:00	♁	11°03'45" ♄	-22°38'43"	00°19'39"	00°04'14"	10.411
29/10/2048 00:00:00	♁	14°42'42" ♍	06°42'30"	00°44'51"	00°02'40"	18.892
29/10/2048 00:00:00	♁	22°54'27" ♄	16°45'21"	-01°47'45"	-00°01'36"	28.864
29/10/2048 00:00:00	♁	05°56'40" ♄	-21°05'32"	-12°42'05"	-00°00'30"	40.672
29/10/2048 00:00:00	♁	19°24'21" ♄	-23°00'35"	00°00'00"	00°01'05"	0.002
29/10/2048 00:00:00	♄	15°22'16" ♍	-14°44'28"	01°46'30"	00°08'11"	9.938
29/10/2048 00:00:00	♁	00°01'58" ♄	22°35'44"	-00°50'12"	00°06'38"	0.003

Ephemerides year 2048

29/10/2048 00:00:00	T♁	19°24'21" ♄	-23°00'35"	00°00'00"	00°01'05"	0.002
29/10/2048 00:00:00	T♁	02°51'14" ♃	22°11'33"	-01°12'34"	-00°28'23"	0.003
29/10/2048 00:00:00	X	00°30'10" ♃	06°05'25"	-05°55'21"	-00°00'36"	92.077
29/10/2048 00:00:00	Y	17°33'10" ♃	11°42'44"	-11°10'59"	-00°00'28"	77.579
30/10/2048 00:00:00	♁	07°14'26" ♃	-13°55'31"	-00°00'00"	00°59'57"	0.993
30/10/2048 00:00:00	♃	08°03'13" ♃	14°28'45"	-03°53'55"	12°05'57"	0.003
30/10/2048 00:00:00	♃	27°26'16" ♃	-09°08'52"	01°30'39"	01°40'02"	1.328
30/10/2048 00:00:00	♃	16°19'49" ♄	-24°34'17"	0-01°51'00"	01°11'40"	1.141
30/10/2048 00:00:00	♃	27°54'22" ♃	-22°36'10"	-02°04'12"	00°42'15"	1.136
30/10/2048 00:00:00	♃	00°48'39" ♃	22°56'17"	-00°29'30"	-00°02'16"	4.437
30/10/2048 00:00:00	♃	11°08'02" ♃	-22°38'28"	00°19'32"	00°04'19"	10.426
30/10/2048 00:00:00	♃	14°45'22" ♃	06°41'30"	00°44'53"	00°02'38"	18.879
30/10/2048 00:00:00	♃	22°52'50" ♃	16°44'56"	-01°47'46"	-00°01'36"	28.859
30/10/2048 00:00:00	♃	05°56'10" ♃	-21°05'30"	-12°41'51"	-00°00'29"	40.687
30/10/2048 00:00:00	♁	19°24'54" ♄	-23°00'38"	00°00'00"	-00°00'05"	0.002
30/10/2048 00:00:00	♃	15°30'28" ♃	-14°46'36"	01°46'45"	00°08'12"	9.942
30/10/2048 00:00:00	♃	00°08'37" ♃	22°34'52"	-00°51'04"	00°06'38"	0.003
30/10/2048 00:00:00	T♁	19°24'54" ♄	-23°00'38"	00°00'00"	-00°00'05"	0.002
30/10/2048 00:00:00	T♁	02°09'02" ♃	22°16'06"	-01°08'48"	-00°58'39"	0.003

Ephemerides year 2048

30/10/2048 00:00:00	X	00°29'33" 	06°05'15"	-05°55'18"	-00°00'36"	92.079
30/10/2048 00:00:00	Y	17°32'42" 	11°42'37"	-11°11'04"	-00°00'28"	77.568
31/10/2048 00:00:00		08°14'24" 	-14°14'58"	-00°00'00"	00°59'59"	0.993
31/10/2048 00:00:00		20°17'05" 	10°24'50"	-04°32'05"	12°22'35"	0.003
31/10/2048 00:00:00		29°06'18" 	-09°49'30"	01°25'10"	01°40'00"	1.341
31/10/2048 00:00:00		17°31'29" 	-24°43'50"	o-01°53'28"	01°11'38"	1.135
31/10/2048 00:00:00		28°36'40" 	-22°26'19"	-02°02'56"	00°42'20"	1.142
31/10/2048 00:00:00		00°46'17" 	22°56'20"	-00°29'28"	-00°02'28"	4.424
31/10/2048 00:00:00		11°12'23" 	-22°38'13"	00°19'26"	00°04'23"	10.441
31/10/2048 00:00:00		14°47'59" 	06°40'31"	00°44'55"	00°02'35"	18.865
31/10/2048 00:00:00		22°51'13" 	16°44'31"	-01°47'46"	-00°01'37"	28.855
31/10/2048 00:00:00		05°55'42" 	-21°05'28"	-12°41'37"	-00°00'27"	40.703
31/10/2048 00:00:00		19°24'01" 	-23°00'34"	00°00'00"	-00°01'43"	0.002
31/10/2048 00:00:00		15°38'41" 	-14°48'43"	01°46'59"	00°08'12"	9.945
31/10/2048 00:00:00		00°15'15" 	22°33'59"	-00°51'57"	00°06'38"	0.003
31/10/2048 00:00:00	TΩ	19°24'01" 	-23°00'34"	00°00'00"	-00°01'43"	0.002
31/10/2048 00:00:00	T♄	00°49'25" 	22°23'59"	-01°01'48"	-01°42'13"	0.003
31/10/2048 00:00:00	X	00°28'57" 	06°05'05"	-05°55'16"	-00°00'36"	92.081
31/10/2048 00:00:00	Y	17°32'13" 	11°42'29"	-11°11'09"	-00°00'29"	77.557

Ephemerides year 2048

01/11/2048 00:00:00	☉	09°14'25" ♍	-14°34'11"	-00°00'00"	01°00'01"	0.993
01/11/2048 00:00:00	☾	02°49'53" ♍	05°49'03"	-04°58'21"	12°43'42"	0.003
01/11/2048 00:00:00	♀	00°46'15" ♍	-10°29'52"	01°19'25"	01°39'52"	1.353
01/11/2048 00:00:00	♀	18°43'06" ♂	-24°52'41"	01°55'54"	01°11'35"	1.128
01/11/2048 00:00:00	♂	29°19'04" ♁	-22°16'15"	-02°01'40"	00°42'26"	1.148
01/11/2048 00:00:00	♃	00°43'43" ♃	22°56'24"	-00°29'25"	-00°02'40"	4.412
01/11/2048 00:00:00	♄	11°16'49" ♁	-22°37'56"	00°19'20"	00°04'28"	10.456
01/11/2048 00:00:00	♅	14°50'34" ♍	06°39'34"	00°44'57"	00°02'33"	18.851
01/11/2048 00:00:00	♆	22°49'35" ♃	16°44'06"	-01°47'47"	-00°01'38"	28.851
01/11/2048 00:00:00	♇	05°55'14" ♃	-21°05'25"	-12°41'22"	-00°00'26"	40.719
01/11/2048 00:00:00	♈	19°21'25" ♂	-23°00'21"	00°00'00"	-00°03'28"	0.002
01/11/2048 00:00:00	♉	15°46'54" ♍	-14°50'51"	01°47'14"	00°08'13"	9.948
01/11/2048 00:00:00	♊	00°21'54" ♃	22°33'06"	-00°52'49"	00°06'38"	0.003
01/11/2048 00:00:00	♋	19°21'25" ♂	-23°00'21"	00°00'00"	-00°03'28"	0.002
01/11/2048 00:00:00	♌	28°43'05" ♃	22°34'50"	-00°50'44"	-02°30'06"	0.003
01/11/2048 00:00:00	♍	00°28'21" ♃	06°04'55"	-05°55'13"	-00°00'36"	92.083
01/11/2048 00:00:00	♎	17°31'43" ♃	11°42'21"	-11°11'14"	-00°00'29"	77.546
02/11/2048 00:00:00	☉	10°14'27" ♍	-14°53'10"	-00°00'00"	01°00'03"	0.992
02/11/2048 00:00:00	☾	15°45'38" ♍	00°50'23"	-05°10'29"	13°08'11"	0.003

Ephemerides year 2048

02/11/2048 00:00:00	♀	02°26'02" ♍	-11°09'51"	01°13'28"	01°39'41"	1.365
02/11/2048 00:00:00	♀	19°54'40" ♈	-25°00'51" ♁	-01°58'15"	01°11'32"	1.121
02/11/2048 00:00:00	♂	00°01'33" ♁	-22°05'59"	-02°00'24"	00°42'31"	1.155
02/11/2048 00:00:00	♃	00°40'57" ♃	22°56'28"	-00°29'22"	-00°02'51"	4.401
02/11/2048 00:00:00	♃	11°21'19" ♃	-22°37'40"	00°19'14"	00°04'32"	10.471
02/11/2048 00:00:00	♃	14°53'06" ♃	06°38'37"	00°44'59"	00°02'31"	18.837
02/11/2048 00:00:00	♃	22°47'57" ♃	16°43'40"	-01°47'48"	-00°01'38"	28.848
02/11/2048 00:00:00	♃	05°54'49" ♃	-21°05'21"	-12°41'07"	-00°00'25"	40.735
02/11/2048 00:00:00	♃	19°17'09" ♃	-23°00'01"	00°00'00"	-00°04'58"	0.002
02/11/2048 00:00:00	♃	15°55'07" ♃	-14°52'58"	01°47'29"	00°08'13"	9.950
02/11/2048 00:00:00	♃	00°28'33" ♃	22°32'12"	-00°53'41"	00°06'38"	0.003
02/11/2048 00:00:00	T♃	19°17'09" ♃	-23°00'01"	00°00'00"	-00°04'58"	0.002
02/11/2048 00:00:00	T♃	25°52'32" ♃	22°46'19"	-00°35'47"	-03°08'00"	0.003
02/11/2048 00:00:00	X	00°27'45" ♃	06°04'45"	-05°55'10"	-00°00'36"	92.086
02/11/2048 00:00:00	Y	17°31'13" ♃	11°42'14"	-11°11'19"	-00°00'30"	77.535
03/11/2048 00:00:00	♁	11°14'32" ♍	-15°11'54"	-00°00'00"	01°00'05"	0.992
03/11/2048 00:00:00	♁	29°06'50" ♃	-04°20'01"	-05°06'28"	13°34'18"	0.003
03/11/2048 00:00:00	♀	04°05'37" ♍	-11°49'24"	01°07'20"	01°39'27"	1.375
03/11/2048 00:00:00	♀	21°06'11" ♈	-25°08'19" ♁	-02°00'33"	01°11'29"	1.115

Ephemerides year 2048

03/11/2048 00:00:00	♂	00°44'07" ♊	-21°55'31"	-01°59'08"	00°42'37"	1.161
03/11/2048 00:00:00	♃	00°37'59" ♉	22°56'32"	-00°29'19"	-00°03'03"	4.389
03/11/2048 00:00:00	♅	11°25'54" ♋	-22°37'22"	00°19'08"	00°04'36"	10.485
03/11/2048 00:00:00	♁	14°55'36" ♈	06°37'41"	00°45'01"	00°02'28"	18.822
03/11/2048 00:00:00	♆	22°46'18" ♌	16°43'15"	-01°47'49"	-00°01'39"	28.844
03/11/2048 00:00:00	♁	05°54'24" ♈	-21°05'16"	-12°40'53"	-00°00'23"	40.751
03/11/2048 00:00:00	♄	19°11'38" ♈	-22°59'34"	00°00'00"	-00°05'56"	0.002
03/11/2048 00:00:00	♆	16°03'21" ♌	-14°55'05"	01°47'44"	00°08'13"	9.953
03/11/2048 00:00:00	♁	00°35'11" ♈	22°31'18"	-00°54'33"	00°06'38"	0.003
03/11/2048 00:00:00	♄	19°11'38" ♈	-22°59'34"	00°00'00"	-00°05'56"	0.002
03/11/2048 00:00:00	♁	22°35'11" ♈	22°55'04"	-00°18'27"	-03°21'52"	0.003
03/11/2048 00:00:00	X	00°27'09" ♌	06°04'35"	-05°55'07"	-00°00'36"	92.089
03/11/2048 00:00:00	Y	17°30'42" ♈	11°42'07"	-11°11'24"	-00°00'31"	77.525
04/11/2048 00:00:00	♃	12°14'39" ♈	-15°30'24"	-00°00'00"	01°00'07"	0.992
04/11/2048 00:00:00	♃	12°54'02" ♈	-09°27'52"	-04°44'54"	13°59'48"	0.002
04/11/2048 00:00:00	♁	05°44'56" ♈	-12°28'27"	01°01'03"	01°39'10"	1.385
04/11/2048 00:00:00	♀	22°17'39" ♈	-25°15'05"	0-02°02'47"	01°11'26"	1.108
04/11/2048 00:00:00	♂	01°26'47" ♊	-21°44'51"	-01°57'52"	00°42'42"	1.167
04/11/2048 00:00:00	♃	00°34'50" ♉	22°56'36"	-00°29'16"	-00°03'15"	4.378

Ephemerides year 2048

04/11/2048 00:00:00	♄	11°30'33" ♍	-22°37'04"	00°19'02"	00°04'41"	10.499
04/11/2048 00:00:00	♃	14°58'03" ♎	06°36'46"	00°45'03"	00°02'26"	18.808
04/11/2048 00:00:00	♃	22°44'38" ♎	16°42'49"	-01°47'49"	-00°01'39"	28.841
04/11/2048 00:00:00	♃	05°54'01" ♎	-21°05'11"	-12°40'38"	-00°00'22"	40.767
04/11/2048 00:00:00	♁	19°05'31" ♎	-22°59'04"	00°00'00"	-00°06'08"	0.002
04/11/2048 00:00:00	♃	16°11'35" ♎	-14°57'11"	01°47'59"	00°08'14"	9.955
04/11/2048 00:00:00	♁	00°41'50" ♎	22°30'24"	-00°55'26"	00°06'38"	0.003
04/11/2048 00:00:00	♁	19°05'31" ♎	-22°59'04"	00°00'00"	-00°06'08"	0.002
04/11/2048 00:00:00	♁	19°18'27" ♎	22°58'57"	-00°01'10"	-03°07'14"	0.003
04/11/2048 00:00:00	♁	00°26'33" ♎	06°04'26"	-05°55'04"	-00°00'35"	92.092
04/11/2048 00:00:00	♁	17°30'11" ♎	11°41'59"	-11°11'28"	-00°00'31"	77.515
05/11/2048 00:00:00	♁	13°14'47" ♎	-15°48'38"	-00°00'00"	01°00'09"	0.992
05/11/2048 00:00:00	♁	27°05'23" ♎	-14°14'47"	-04°05'28"	14°22'08"	0.002
05/11/2048 00:00:00	♁	07°23'57" ♎	-13°06'56"	00°54'37"	01°38'52"	1.394
05/11/2048 00:00:00	♁	23°29'05" ♎	-25°21'08"	-02°04'57"	01°11'23"	1.102
05/11/2048 00:00:00	♁	02°09'32" ♎	-21°33'58"	-01°56'36"	00°42'47"	1.174
05/11/2048 00:00:00	♁	00°31'29" ♎	22°56'40"	-00°29'13"	-00°03'26"	4.366
05/11/2048 00:00:00	♄	11°35'17" ♍	-22°36'46"	00°18'56"	00°04'45"	10.514
05/11/2048 00:00:00	♃	15°00'28" ♎	06°35'52"	00°45'05"	00°02'23"	18.793

Ephemerides year 2048

05/11/2048 00:00:00	♁	22°42'59"	♄r	16°42'24"	-01°47'50"	-00°01'39"	28.838
05/11/2048 00:00:00	♁	05°53'40"	♄r	-21°05'06"	-12°40'23"	-00°00'20"	40.783
05/11/2048 00:00:00	♁	18°59'37"	♄r	-22°58'35"	00°00'00"	-00°05'32"	0.002
05/11/2048 00:00:00	♁	16°19'49"	♄	-14°59'17"	01°48'14"	00°08'14"	9.957
05/11/2048 00:00:00	♁	00°48'29"	♄	22°29'30"	-00°56'18"	00°06'38"	0.003
05/11/2048 00:00:00	T♁	18°59'37"	♄r	-22°58'35"	00°00'00"	-00°05'32"	0.002
05/11/2048 00:00:00	T♁	16°27'00"	♄r	22°58'23"	00°13'51"	-02°33'58"	0.003
05/11/2048 00:00:00	X	00°25'57"	♄r	06°04'16"	-05°55'01"	-00°00'35"	92.096
05/11/2048 00:00:00	Y	17°29'39"	♄r	11°41'52"	-11°11'33"	-00°00'31"	77.505
06/11/2048 00:00:00	♁	14°14'58"	♄	-16°06'37"	-00°00'00"	01°00'11"	0.991
06/11/2048 00:00:00	♁	11°36'29"	♄	-18°18'45"	-03°09'26"	14°38'58"	0.002
06/11/2048 00:00:00	♁	09°02'40"	♄	-13°44'49"	00°48'06"	01°38'33"	1.402
06/11/2048 00:00:00	♁	24°40'27"	♄	-25°26'28"	-02°07'03"	01°11'20"	1.095
06/11/2048 00:00:00	♁	02°52'23"	♄	-21°22'54"	-01°55'20"	00°42'52"	1.180
06/11/2048 00:00:00	♁	00°27'56"	♄r	22°56'44"	-00°29'09"	-00°03'38"	4.355
06/11/2048 00:00:00	♁	11°40'05"	♄	-22°36'27"	00°18'50"	00°04'50"	10.528
06/11/2048 00:00:00	♁	15°02'50"	♄	06°34'59"	00°45'08"	00°02'20"	18.779
06/11/2048 00:00:00	♁	22°41'19"	♄r	16°41'58"	-01°47'50"	-00°01'40"	28.836
06/11/2048 00:00:00	♁	05°53'20"	♄r	-21°04'59"	-12°40'07"	-00°00'19"	40.799



Ephemerides year 2048

06/11/2048 00:00:00	♏	18°54'41" ⚹r	-22°58'11"	00°00'00"	-00°04'14"	0.002
06/11/2048 00:00:00	♋	16°28'04" ♃	-15°01'23"	01°48'30"	00°08'14"	9.959
06/11/2048 00:00:00	♌	00°55'08" ♄	22°28'35"	-00°57'10"	00°06'38"	0.003
06/11/2048 00:00:00	T♏	18°54'41" ⚹r	-22°58'11"	00°00'00"	-00°04'14"	0.002
06/11/2048 00:00:00	T♌	14°10'40" ♃r	22°55'20"	00°25'49"	-02°00'04"	0.003
06/11/2048 00:00:00	X	00°25'21" ⚹r	06°04'07"	-05°54'58"	-00°00'35"	92.100
06/11/2048 00:00:00	Y	17°29'07" ♃r	11°41'45"	-11°11'37"	-00°00'32"	77.495
07/11/2048 00:00:00	♉	15°15'11" ♃	-16°24'20"	-00°00'00"	01°00'13"	0.991
07/11/2048 00:00:00	♊	26°20'55" ♃	-21°16'27"	-01°59'55"	14°48'37"	0.002
07/11/2048 00:00:00	♎	10°41'03" ♃	-14°22'03"	00°41'29"	01°38'12"	1.410
07/11/2048 00:00:00	♍	25°51'46" ⚹	-25°31'05"	o-02°09'05"	01°11'17"	1.088
07/11/2048 00:00:00	♈	03°35'18" ♁	-21°11'38"	-01°54'03"	00°42'57"	1.186
07/11/2048 00:00:00	♉	00°24'12" ♄r	22°56'48"	-00°29'06"	-00°03'49"	4.344
07/11/2048 00:00:00	♊	11°44'57" ⚹	-22°36'07"	00°18'44"	00°04'54"	10.541
07/11/2048 00:00:00	♌	15°05'10" ♃	06°34'07"	00°45'10"	00°02'18"	18.764
07/11/2048 00:00:00	♎	22°39'38" ⚹r	16°41'32"	-01°47'50"	-00°01'40"	28.834
07/11/2048 00:00:00	♐	05°53'01" ♃r	-21°04'52"	-12°39'52"	-00°00'17"	40.816
07/11/2048 00:00:00	♏	18°51'17" ⚹r	-22°57'53"	00°00'00"	-00°02'31"	0.002
07/11/2048 00:00:00	♋	16°36'19" ♃	-15°03'28"	01°48'45"	00°08'14"	9.960

Ephemerides year 2048

07/11/2048 00:00:00	☾	01°01'47" ♉	22°27'40"	-00°58'02"	00°06'38"	0.003
07/11/2048 00:00:00	♄	18°51'17" ♉	-22°57'53"	00°00'00"	-00°02'31"	0.002
07/11/2048 00:00:00	♄	12°21'47" ♉	22°51'21"	00°35'26"	-01°41'02"	0.003
07/11/2048 00:00:00	X	00°24'46" ♉	06°03'58"	-05°54'55"	-00°00'35"	92.104
07/11/2048 00:00:00	Y	17°28'34" ♉	11°41'38"	-11°11'41"	-00°00'32"	77.486
08/11/2048 00:00:00	☉	16°15'25" ♉	-16°41'46"	-00°00'00"	01°00'15"	0.991
08/11/2048 00:00:00	☾	11°11'07" ♉	-22°48'04"	-00°41'45"	14°50'28"	0.002
08/11/2048 00:00:00	♀	12°19'06" ♉	-14°58'35"	00°34'48"	01°37'52"	1.417
08/11/2048 00:00:00	♀	27°03'02" ♉	-25°34'59"	0-02°11'02"	01°11'14"	1.081
08/11/2048 00:00:00	♂	04°18'19" ♉	-21°00'10"	-01°52'47"	00°43'02"	1.193
08/11/2048 00:00:00	♃	00°20'17" ♉	22°56'52"	-00°29'03"	-00°04'00"	4.334
08/11/2048 00:00:00	♃	11°49'53" ♉	-22°35'47"	00°18'38"	00°04'58"	10.555
08/11/2048 00:00:00	♃	15°07'27" ♉	06°33'16"	00°45'12"	00°02'15"	18.749
08/11/2048 00:00:00	♃	22°37'58" ♉	16°41'07"	-01°47'51"	-00°01'40"	28.832
08/11/2048 00:00:00	♃	05°52'45" ♉	-21°04'44"	-12°39'37"	-00°00'16"	40.832
08/11/2048 00:00:00	♄	18°49'38" ♉	-22°57'45"	00°00'00"	-00°00'47"	0.002
08/11/2048 00:00:00	♃	16°44'34" ♉	-15°05'32"	01°49'01"	00°08'14"	9.961
08/11/2048 00:00:00	☾	01°08'26" ♉	22°26'44"	-00°58'54"	00°06'38"	0.003
08/11/2048 00:00:00	♄	18°49'38" ♉	-22°57'45"	00°00'00"	-00°00'47"	0.002

Ephemerides year 2048

08/11/2048 00:00:00	T♄	10°41'30" ♀r	22°46'33"	00°44'26"	-01°42'50"	0.003
08/11/2048 00:00:00	X	00°24'11" ♂r	06°03'49"	-05°54'52"	-00°00'35"	92.108
08/11/2048 00:00:00	Y	17°28'01" ♀r	11°41'31"	-11°11'45"	-00°00'33"	77.477
09/11/2048 00:00:00	☉	17°15'41" ♎	-16°58'55"	-00°00'00"	01°00'16"	0.991
09/11/2048 00:00:00	☾	25°59'27" ♋	-22°43'06"	00°39'13"	14°45'05"	0.002
09/11/2048 00:00:00	♀	13°56'48" ♎	-15°34'24"	00°28'05"	01°37'31"	1.423
09/11/2048 00:00:00	♀	28°14'14" ♋	-25°38'09"	o-02°12'55"	01°11'10"	1.075
09/11/2048 00:00:00	♂	05°01'24" ♁	-20°48'30"	-01°51'31"	00°43'07"	1.199
09/11/2048 00:00:00	♃	00°16'11" ♉r	22°56'56"	-00°28'59"	-00°04'11"	4.323
09/11/2048 00:00:00	♅	11°54'54" ♌	-22°35'26"	00°18'32"	00°05'02"	10.569
09/11/2048 00:00:00	♁	15°09'41" ♎	06°32'26"	00°45'14"	00°02'13"	18.733
09/11/2048 00:00:00	♆	22°36'17" ♂r	16°40'41"	-01°47'51"	-00°01'40"	28.831
09/11/2048 00:00:00	♁	05°52'29" ♋r	-21°04'36"	-12°39'21"	-00°00'14"	40.849
09/11/2048 00:00:00	♁	18°49'36" ♋	-22°57'45"	00°00'00"	00°00'37"	0.002
09/11/2048 00:00:00	♁	16°52'48" ♎	-15°07'36"	01°49'17"	00°08'14"	9.962
09/11/2048 00:00:00	♁	01°15'05" ♉	22°25'48"	-00°59'46"	00°06'38"	0.003
09/11/2048 00:00:00	T♁	18°49'36" ♋	-22°57'45"	00°00'00"	00°00'37"	0.002
09/11/2048 00:00:00	T♄	08°51'15" ♀r	22°40'02"	00°54'27"	-01°58'44"	0.003
09/11/2048 00:00:00	X	00°23'36" ♂r	06°03'40"	-05°54'49"	-00°00'34"	92.113

Ephemerides year 2048

09/11/2048 00:00:00	Y	17°27'28" ♀	11°41'24"	-11°11'49"	-00°00'33"	77.468
10/11/2048 00:00:00	☉	18°15'59" ♎	-17°15'46"	00°00'00"	01°00'18"	0.990
10/11/2048 00:00:00	☾	10°39'22" ♎	-21°03'42"	01°56'57"	14°33'55"	0.002
10/11/2048 00:00:00	♀	15°34'08" ♎	-16°09'26"	00°21'19"	01°37'10"	1.428
10/11/2048 00:00:00	♀	29°25'22" ♎	-25°40'36"	0-02°14'44"	01°11'06"	1.068
10/11/2048 00:00:00	♂	05°44'33" ♋	-20°36'39"	-01°50'14"	00°43'11"	1.206
10/11/2048 00:00:00	♃	00°11'54" ♉	22°57'00"	-00°28'55"	-00°04'22"	4.313
10/11/2048 00:00:00	♄	11°59'59" ♎	-22°35'04"	00°18'26"	00°05'06"	10.582
10/11/2048 00:00:00	♅	15°11'53" ♎	06°31'37"	00°45'16"	00°02'10"	18.718
10/11/2048 00:00:00	♆	22°34'36" ♎	16°40'15"	-01°47'51"	-00°01'41"	28.829
10/11/2048 00:00:00	♇	05°52'15" ♎	-21°04'26"	-12°39'05"	-00°00'13"	40.866
10/11/2048 00:00:00	♈	18°50'41" ♎	-22°57'50"	00°00'00"	00°01'25"	0.002
10/11/2048 00:00:00	♉	17°01'03" ♎	-15°09'40"	01°49'33"	00°08'14"	9.963
10/11/2048 00:00:00	♊	01°21'44" ♉	22°24'53"	-01°00'38"	00°06'38"	0.003
10/11/2048 00:00:00	T♈	18°50'41" ♎	-22°57'50"	00°00'00"	00°01'25"	0.002
10/11/2048 00:00:00	T♉	06°45'34" ♉	22°30'54"	01°05'55"	-02°09'50"	0.003
10/11/2048 00:00:00	X	00°23'01" ♎	06°03'31"	-05°54'45"	-00°00'34"	92.118
10/11/2048 00:00:00	Y	17°26'54" ♀	11°41'17"	-11°11'53"	-00°00'33"	77.459
11/11/2048 00:00:00	☉	19°16'18" ♎	-17°32'20"	00°00'00"	01°00'19"	0.990

Ephemerides year 2048

11/11/2048 00:00:00	♃	25°06'00" ♃	-18°03'21"	03°06'04"	14°18'50"	0.002
11/11/2048 00:00:00	♆	17°11'08" ♃	-16°43'40"	00°14'33"	01°36'49"	1.433
11/11/2048 00:00:00	♀	00°36'27" ♃	-25°42'19"	♁-02°16'28"	01°11'02"	1.061
11/11/2048 00:00:00	♂	06°27'47" ♃	-20°24'36"	-01°48'58"	00°43'15"	1.212
11/11/2048 00:00:00	♃	00°07'26" ♃	22°57'04"	-00°28'51"	-00°04'33"	4.303
11/11/2048 00:00:00	♃	12°05'07" ♃	-22°34'43"	00°18'21"	00°05'10"	10.596
11/11/2048 00:00:00	♃	15°14'02" ♃	06°30'49"	00°45'19"	00°02'07"	18.702
11/11/2048 00:00:00	♃	22°32'55" ♃	16°39'50"	-01°47'51"	-00°01'41"	28.828
11/11/2048 00:00:00	♃	05°52'03" ♃	-21°04'17"	-12°38'50"	-00°00'11"	40.883
11/11/2048 00:00:00	♁	18°52'13" ♃	-22°57'58"	00°00'00"	00°01'30"	0.002
11/11/2048 00:00:00	♃	17°09'17" ♃	-15°11'43"	01°49'49"	00°08'14"	9.963
11/11/2048 00:00:00	♃	01°28'23" ♃	22°23'56"	-01°01'30"	00°06'38"	0.003
11/11/2048 00:00:00	♁	18°52'13" ♃	-22°57'58"	00°00'00"	00°01'30"	0.002
11/11/2048 00:00:00	♃	04°41'05" ♃	22°20'00"	01°17'13"	-01°52'51"	0.003
11/11/2048 00:00:00	X	00°22'26" ♃	06°03'22"	-05°54'42"	-00°00'34"	92.123
11/11/2048 00:00:00	Y	17°26'20" ♃	11°41'10"	-11°11'57"	-00°00'34"	77.451
12/11/2048 00:00:00	♁	20°16'38" ♃	-17°48'36"	00°00'00"	01°00'21"	0.990
12/11/2048 00:00:00	♃	09°16'22" ♃	-14°01'47"	04°02'27"	14°01'40"	0.002
12/11/2048 00:00:00	♆	18°47'48" ♃	-17°17'04"	00°07'46"	01°36'29"	1.437

Ephemerides year 2048

12/11/2048 00:00:00	♀	01°47'27" ♃	-25°43'19"	o-02°18'07"	01°10'58"	1.054
12/11/2048 00:00:00	♂	07°11'05" ♁	-20°12'23"	-01°47'42"	00°43'19"	1.219
12/11/2048 00:00:00	♃	00°02'48" ♃	22°57'09"	-00°28'47"	-00°04'43"	4.293
12/11/2048 00:00:00	♃	12°10'20" ♃	-22°34'20"	00°18'15"	00°05'14"	10.609
12/11/2048 00:00:00	♃	15°16'08" ♃	06°30'02"	00°45'21"	00°02'04"	18.687
12/11/2048 00:00:00	♃	22°31'13" ♃	16°39'24"	-01°47'51"	-00°01'41"	28.828
12/11/2048 00:00:00	♃	05°51'52" ♃	-21°04'06"	-12°38'34"	-00°00'10"	40.900
12/11/2048 00:00:00	♃	18°53'29" ♃	-22°58'04"	00°00'00"	00°00'54"	0.002
12/11/2048 00:00:00	♃	17°17'32" ♃	-15°13'46"	01°50'05"	00°08'13"	9.963
12/11/2048 00:00:00	♃	01°35'01" ♃	22°23'00"	-01°02'22"	00°06'38"	0.003
12/11/2048 00:00:00	T♃	18°53'29" ♃	-22°58'04"	00°00'00"	00°00'54"	0.002
12/11/2048 00:00:00	T♃	03°13'29" ♃	22°11'14"	01°25'07"	-00°55'46"	0.003
12/11/2048 00:00:00	X	00°21'52" ♃	06°03'14"	-05°54'39"	-00°00'34"	92.129
12/11/2048 00:00:00	Y	17°25'46" ♃	11°41'04"	-11°12'01"	-00°00'34"	77.443
13/11/2048 00:00:00	♃	21°17'00" ♃	-18°04'33"	00°00'00"	01°00'22"	0.990
13/11/2048 00:00:00	♃	23°09'11" ♃	-09°19'47"	04°43'21"	13°43'57"	0.003
13/11/2048 00:00:00	♃	20°24'08" ♃	-17°49'37"	00°01'01"	01°36'09"	1.441
13/11/2048 00:00:00	♀	02°58'23" ♃	-25°43'35"	o-02°19'41"	01°10'53"	1.047
13/11/2048 00:00:00	♂	07°54'27" ♃	-19°59'58"	-01°46'25"	00°43'23"	1.225

Ephemerides year 2048

13/11/2048 00:00:00	♃	29°57'59" ♀r	22°57'13"	-00°28'43"	-00°04'54"	4.284
13/11/2048 00:00:00	♅	12°15'36" ♂	-22°33'57"	00°18'09"	00°05'18"	10.622
13/11/2048 00:00:00	♁	15°18'11" ♀	06°29'17"	00°45'23"	00°02'01"	18.671
13/11/2048 00:00:00	♆	22°29'32" ♂r	16°38'59"	-01°47'51"	-00°01'41"	28.828
13/11/2048 00:00:00	♁	05°51'42" ♀r	-21°03'55"	-12°38'18"	-00°00'08"	40.917
13/11/2048 00:00:00	♁	18°53'52" ♂r	-22°58'06"	00°00'00"	-00°00'10"	0.002
13/11/2048 00:00:00	♃	17°25'45" ♀	-15°15'47"	01°50'22"	00°08'13"	9.963
13/11/2048 00:00:00	♁	01°41'40" ♂	22°22'03"	-01°03'14"	00°06'38"	0.003
13/11/2048 00:00:00	♁	18°53'52" ♂r	-22°58'06"	00°00'00"	-00°00'10"	0.002
13/11/2048 00:00:00	♁	03°00'08" ♀	22°09'50"	01°26'20"	00°32'40"	0.003
13/11/2048 00:00:00	X	00°21'18" ♂r	06°03'05"	-05°54'35"	-00°00'34"	92.135
13/11/2048 00:00:00	Y	17°25'10" ♀r	11°40'57"	-11°12'04"	-00°00'35"	77.435
14/11/2048 00:00:00	♁	22°17'23" ♀	-18°20'11"	00°00'00"	01°00'23"	0.989
14/11/2048 00:00:00	♁	06°44'26" ♀	-04°16'15"	05°07'24"	13°26'41"	0.003
14/11/2048 00:00:00	♁	22°00'08" ♀	-18°21'17"	-00°05'42"	01°35'50"	1.443
14/11/2048 00:00:00	♀	04°09'14" ♂	-25°43'07"	-02°21'09"	01°10'48"	1.041
14/11/2048 00:00:00	♂	08°37'52" ♀	-19°47'22"	-01°45'09"	00°43'27"	1.232
14/11/2048 00:00:00	♃	29°53'00" ♀r	22°57'17"	-00°28'39"	-00°05'04"	4.275
14/11/2048 00:00:00	♅	12°20'56" ♂	-22°33'33"	00°18'03"	00°05'21"	10.634

Ephemerides year 2048

14/11/2048 00:00:00	♃	15°20'11" ♎	06°28'32"	00°45'26"	00°01'58"	18.655
14/11/2048 00:00:00	♃	22°27'50" ♏	16°38'33"	-01°47'51"	-00°01'41"	28.828
14/11/2048 00:00:00	♃	05°51'34" ♏	-21°03'44"	-12°38'02"	-00°00'07"	40.934
14/11/2048 00:00:00	♃	18°53'03" ♏	-22°58'02"	00°00'00"	-00°01'28"	0.002
14/11/2048 00:00:00	♃	17°33'59" ♎	-15°17'49"	01°50'39"	00°08'12"	9.963
14/11/2048 00:00:00	♃	01°48'19" ♏	22°21'06"	-01°04'06"	00°06'38"	0.003
14/11/2048 00:00:00	♃	18°53'03" ♏	-22°58'02"	00°00'00"	-00°01'28"	0.002
14/11/2048 00:00:00	♃	04°22'00" ♏	22°18'15"	01°19'01"	02°10'45"	0.003
14/11/2048 00:00:00	♃	00°20'44" ♏	06°02'57"	-05°54'31"	-00°00'33"	92.141
14/11/2048 00:00:00	♃	17°24'35" ♏	11°40'51"	-11°12'07"	-00°00'35"	77.427
15/11/2048 00:00:00	♃	23°17'48" ♎	-18°35'30"	00°00'00"	01°00'25"	0.989
15/11/2048 00:00:00	♃	20°02'55" ♏	00°52'44"	05°14'18"	13°10'27"	0.003
15/11/2048 00:00:00	♃	23°35'51" ♎	-18°52'03"	-00°12'24"	01°35'32"	1.446
15/11/2048 00:00:00	♃	05°20'01" ♏	-25°41'56"	-02°22'33"	01°10'44"	1.034
15/11/2048 00:00:00	♃	09°21'21" ♏	-19°34'36"	-01°43'53"	00°43'30"	1.238
15/11/2048 00:00:00	♃	29°47'50" ♏	22°57'21"	-00°28'35"	-00°05'14"	4.266
15/11/2048 00:00:00	♃	12°26'19" ♏	-22°33'09"	00°17'58"	00°05'25"	10.647
15/11/2048 00:00:00	♃	15°22'08" ♎	06°27'49"	00°45'28"	00°01'55"	18.639
15/11/2048 00:00:00	♃	22°26'08" ♏	16°38'07"	-01°47'51"	-00°01'41"	28.828



Ephemerides year 2048

15/11/2048 00:00:00	♁	05°51'28" ♉	-21°03'31"	-12°37'46"	-00°00'05"	40.951
15/11/2048 00:00:00	♁	18°50'58" ♉	-22°57'52"	00°00'00"	-00°02'39"	0.002
15/11/2048 00:00:00	♁	17°42'11" ♉	-15°19'49"	01°50'56"	00°08'12"	9.962
15/11/2048 00:00:00	♁	01°54'58" ♉	22°20'08"	-01°04'58"	00°06'38"	0.003
15/11/2048 00:00:00	♁	18°50'58" ♉	-22°57'52"	00°00'00"	-00°02'39"	0.002
15/11/2048 00:00:00	♁	07°17'48" ♉	22°33'33"	01°03'07"	03°37'30"	0.003
15/11/2048 00:00:00	X	00°20'10" ♉	06°02'49"	-05°54'28"	-00°00'33"	92.147
15/11/2048 00:00:00	Y	17°23'59" ♉	11°40'45"	-11°12'11"	-00°00'36"	77.420
16/11/2048 00:00:00	♁	24°18'13" ♉	-18°50'29"	00°00'00"	01°00'26"	0.989
16/11/2048 00:00:00	♁	03°05'47" ♉	05°53'25"	05°04'43"	12°55'29"	0.003
16/11/2048 00:00:00	♁	25°11'15" ♉	-19°21'52"	-00°19'03"	01°35'15"	1.447
16/11/2048 00:00:00	♁	06°30'42" ♉	-25°40'02"	0-02°23'52"	01°10'39"	1.027
16/11/2048 00:00:00	♁	10°04'54" ♉	-19°21'39"	-01°42'37"	00°43'34"	1.245
16/11/2048 00:00:00	♁	29°42'31" ♉	22°57'24"	-00°28'30"	-00°05'24"	4.257
16/11/2048 00:00:00	♁	12°31'46" ♉	-22°32'44"	00°17'52"	00°05'28"	10.660
16/11/2048 00:00:00	♁	15°24'03" ♉	06°27'07"	00°45'30"	00°01'52"	18.623
16/11/2048 00:00:00	♁	22°24'27" ♉	16°37'42"	-01°47'51"	-00°01'41"	28.829
16/11/2048 00:00:00	♁	05°51'23" ♉	-21°03'18"	-12°37'30"	-00°00'04"	40.968
16/11/2048 00:00:00	♁	18°47'50" ♉	-22°57'36"	00°00'00"	-00°03'30"	0.002
































Ephemerides year 2048

16/11/2048 00:00:00	♄	17°50'23" ♎	-15°21'49"	01°51'13"	00°08'11"	9.962
16/11/2048 00:00:00	♁	02°01'37" ♉	22°19'10"	-01°05'50"	00°06'38"	0.003
16/11/2048 00:00:00	♁	18°47'50" ♏	-22°57'36"	00°00'00"	-00°03'30"	0.002
16/11/2048 00:00:00	♁	11°28'26" ♉	22°48'54"	00°40'11"	04°38'38"	0.003
16/11/2048 00:00:00	X	00°19'36" ♏	06°02'41"	-05°54'24"	-00°00'33"	92.154
16/11/2048 00:00:00	Y	17°23'23" ♏	11°40'38"	-11°12'14"	-00°00'36"	77.413
17/11/2048 00:00:00	♁	25°18'40" ♎	-19°05'08"	00°00'00"	01°00'27"	0.989
17/11/2048 00:00:00	♃	15°54'20" ♏	10°33'37"	04°40'00"	12°41'47"	0.003
17/11/2048 00:00:00	♁	26°46'23" ♎	-19°50'43"	-00°25'38"	01°34'59"	1.448
17/11/2048 00:00:00	♁	07°41'19" ♏	-25°37'24"	0-02°25'05"	01°10'34"	1.020
17/11/2048 00:00:00	♁	10°48'29" ♏	-19°08'31"	-01°41'21"	00°43'37"	1.251
17/11/2048 00:00:00	♁	29°37'02" ♏	22°57'28"	-00°28'26"	-00°05'33"	4.248
17/11/2048 00:00:00	♁	12°37'17" ♏	-22°32'19"	00°17'46"	00°05'32"	10.672
17/11/2048 00:00:00	♁	15°25'54" ♎	06°26'26"	00°45'33"	00°01'50"	18.607
17/11/2048 00:00:00	♁	22°22'45" ♏	16°37'17"	-01°47'50"	-00°01'41"	28.830
17/11/2048 00:00:00	♁	05°51'20" ♏	-21°03'05"	-12°37'14"	-00°00'02"	40.985
17/11/2048 00:00:00	♁	18°44'06" ♏	-22°57'17"	00°00'00"	-00°03'52"	0.002
17/11/2048 00:00:00	♄	17°58'35" ♎	-15°23'49"	01°51'30"	00°08'11"	9.961
17/11/2048 00:00:00	♁	02°08'15" ♉	22°18'12"	-01°06'42"	00°06'38"	0.003

Ephemerides year 2048

17/11/2048 00:00:00	T♄	18°44'06" ♏	-22°57'17"	00°00'00"	-00°03'52"	0.002
17/11/2048 00:00:00	T♄	16°23'48" ♏	22°57'03"	00°12'52"	05°06'06"	0.003
17/11/2048 00:00:00	X	00°19'03" ♏	06°02'33"	-05°54'20"	-00°00'33"	92.161
17/11/2048 00:00:00	Y	17°22'46" ♏	11°40'32"	-11°12'16"	-00°00'36"	77.406
18/11/2048 00:00:00	☉	26°19'09" ♎	-19°19'27"	00°00'00"	01°00'29"	0.989
18/11/2048 00:00:00	☾	28°29'47" ♏	14°42'09"	04°02'01"	12°29'19"	0.003
18/11/2048 00:00:00	☿	28°21'15" ♎	-20°18'36"	-00°32'08"	01°34'44"	1.449
18/11/2048 00:00:00	♀	08°51'51" ♏	-25°34'02"	0-02°26'12"	01°10'28"	1.013
18/11/2048 00:00:00	♂	11°32'08" ♏	-18°55'13"	-01°40'05"	00°43'40"	1.258
18/11/2048 00:00:00	♃	29°31'24" ♏	22°57'31"	-00°28'21"	-00°05'43"	4.240
18/11/2048 00:00:00	♅	12°42'51" ♏	-22°31'53"	00°17'41"	00°05'36"	10.684
18/11/2048 00:00:00	♁	15°27'43" ♎	06°25'46"	00°45'35"	00°01'47"	18.591
18/11/2048 00:00:00	♆	22°21'04" ♏	16°36'51"	-01°47'50"	-00°01'41"	28.831
18/11/2048 00:00:00	♁	05°51'18" ♏	-21°02'51"	-12°36'58"	-00°00'01"	41.003
18/11/2048 00:00:00	♁	18°40'15" ♏	-22°56'58"	00°00'00"	-00°03'43"	0.002
18/11/2048 00:00:00	♁	18°06'46" ♎	-15°25'47"	01°51'47"	00°08'10"	9.959
18/11/2048 00:00:00	♁	02°14'54" ♏	22°17'14"	-01°07'34"	00°06'38"	0.003
18/11/2048 00:00:00	T♄	18°40'15" ♏	-22°56'58"	00°00'00"	-00°03'43"	0.002
18/11/2048 00:00:00	T♄	21°28'38" ♏	22°54'05"	-00°15'27"	04°57'48"	0.003

Ephemerides year 2048

18/11/2048 00:00:00	X	00°18'30" 	06°02'25"	-05°54'16"	-00°00'32"	92.168
18/11/2048 00:00:00	Y	17°22'09" 	11°40'26"	-11°12'19"	-00°00'36"	77.400
19/11/2048 00:00:00		27°19'39" 	-19°33'24"	00°00'00"	01°00'30"	0.988
19/11/2048 00:00:00		10°53'21" 	18°08'42"	03°13'08"	12°18'01"	0.003
19/11/2048 00:00:00		29°55'52" 	-20°45'29"	-00°38'34"	01°34'30"	1.449
19/11/2048 00:00:00		10°02'17" 	-25°29'58"	o-02°27'14"	01°10'23"	1.006
19/11/2048 00:00:00		12°15'50" 	-18°41'45"	-01°38'49"	00°43'43"	1.264
19/11/2048 00:00:00		29°25'36" 	22°57'35"	-00°28'17"	-00°05'52"	4.232
19/11/2048 00:00:00		12°48'29" 	-22°31'26"	00°17'35"	00°05'39"	10.696
19/11/2048 00:00:00		15°29'28" 	06°25'07"	00°45'38"	00°01'44"	18.574
19/11/2048 00:00:00		22°19'23" 	16°36'26"	-01°47'49"	-00°01'41"	28.832
19/11/2048 00:00:00		05°51'17" 	-21°02'36"	-12°36'41"	00°00'00"	41.020
19/11/2048 00:00:00		18°36'48" 	-22°56'40"	00°00'00"	-00°03'07"	0.002
19/11/2048 00:00:00		18°14'56" 	-15°27'45"	01°52'05"	00°08'09"	9.958
19/11/2048 00:00:00		02°21'33" 	22°16'15"	-01°08'25"	00°06'38"	0.003
19/11/2048 00:00:00	TΩ	18°36'48" 	-22°56'40"	00°00'00"	-00°03'07"	0.002
19/11/2048 00:00:00	T♄	26°09'17" 	22°41'08"	-00°41'28"	04°19'21"	0.003
19/11/2048 00:00:00	X	00°17'57" 	06°02'18"	-05°54'12"	-00°00'32"	92.176
19/11/2048 00:00:00	Y	17°21'32" 	11°40'20"	-11°12'22"	-00°00'37"	77.393

Ephemerides year 2048

20/11/2048 00:00:00	☉	28°20'10" ♍	-19°47'01"	00°00'00"	01°00'32"	0.988
20/11/2048 00:00:00	☾	23°06'15" ♋	20°44'08"	02°15'57"	12°08'00"	0.003
20/11/2048 00:00:00	♁	01°30'16" ♎	-21°11'20"	-00°44'53"	01°34'17"	1.448
20/11/2048 00:00:00	♂	11°12'38" ♌	-25°25'12"	0°28'10"	01°10'18"	0.999
20/11/2048 00:00:00	♂	12°59'36" ♍	-18°28'06"	-01°37'33"	00°43'46"	1.271
20/11/2048 00:00:00	♃	29°19'39" ♉	22°57'38"	-00°28'12"	-00°06'01"	4.224
20/11/2048 00:00:00	♄	12°54'10" ♌	-22°30'59"	00°17'30"	00°05'42"	10.707
20/11/2048 00:00:00	♅	15°31'11" ♍	06°24'30"	00°45'40"	00°01'41"	18.558
20/11/2048 00:00:00	♆	22°17'42" ♋	16°36'01"	-01°47'49"	-00°01'40"	28.834
20/11/2048 00:00:00	♇	05°51'19" ♉	-21°02'20"	-12°36'25"	00°00'02"	41.037
20/11/2048 00:00:00	♈	18°34'07" ♎	-22°56'26"	00°00'00"	-00°02'11"	0.002
20/11/2048 00:00:00	♉	18°23'05" ♍	-15°29'42"	01°52'22"	00°08'08"	9.956
20/11/2048 00:00:00	♊	02°28'12" ♉	22°15'16"	-01°09'17"	00°06'38"	0.003
20/11/2048 00:00:00	♋	18°34'07" ♎	-22°56'26"	00°00'00"	-00°02'11"	0.002
20/11/2048 00:00:00	♌	00°01'51" ♉	22°23'04"	-01°02'52"	03°24'33"	0.003
20/11/2048 00:00:00	♍	00°17'25" ♋	06°02'10"	-05°54'09"	-00°00'32"	92.184
20/11/2048 00:00:00	♎	17°20'55" ♉	11°40'15"	-11°12'24"	-00°00'37"	77.388
21/11/2048 00:00:00	☉	29°20'44" ♍	-20°00'16"	00°00'00"	01°00'33"	0.988
21/11/2048 00:00:00	☾	05°09'51" ♉	22°21'22"	01°13'17"	11°59'27"	0.003

Ephemerides year 2048

21/11/2048 00:00:00	♀	03°04'27" ♄	-21°36'08"	-00°51'07"	01°34'04"	1.447
21/11/2048 00:00:00	♀	12°22'53" ♄	-25°19'42"	o-02°29'00"	01°10'12"	0.992
21/11/2048 00:00:00	♂	13°43'23" ♃	-18°14'18"	-01°36'17"	00°43'49"	1.277
21/11/2048 00:00:00	♃	29°13'34" ♃	22°57'41"	-00°28'07"	-00°06'09"	4.216
21/11/2048 00:00:00	♃	12°59'55" ♄	-22°30'31"	00°17'24"	00°05'46"	10.719
21/11/2048 00:00:00	♃	15°32'51" ♃	06°23'54"	00°45'42"	00°01'38"	18.541
21/11/2048 00:00:00	♃	22°16'01" ♃	16°35'36"	-01°47'48"	-00°01'40"	28.836
21/11/2048 00:00:00	♃	05°51'21" ♃	-21°02'04"	-12°36'09"	00°00'03"	41.055
21/11/2048 00:00:00	♃	18°32'27" ♄	-22°56'17"	00°00'00"	-00°01'08"	0.002
21/11/2048 00:00:00	♃	18°31'14" ♃	-15°31'39"	01°52'40"	00°08'08"	9.954
21/11/2048 00:00:00	♃	02°34'51" ♃	22°14'17"	-01°10'09"	00°06'38"	0.003
21/11/2048 00:00:00	T♃	18°32'27" ♄	-22°56'17"	00°00'00"	-00°01'08"	0.002
21/11/2048 00:00:00	T♃	02°58'55" ♃	22°04'56"	-01°18'59"	02°31'12"	0.003
21/11/2048 00:00:00	X	00°16'53" ♃	06°02'03"	-05°54'04"	-00°00'31"	92.192
21/11/2048 00:00:00	Y	17°20'17" ♃	11°40'09"	-11°12'26"	-00°00'37"	77.382
22/11/2048 00:00:00	♃	00°21'18" ♄	-20°13'09"	-00°00'00"	01°00'35"	0.988
22/11/2048 00:00:00	♃	17°05'47" ♃	22°56'18"	00°07'56"	11°52'45"	0.003
22/11/2048 00:00:00	♀	04°38'26" ♄	-21°59'51"	-00°57'13"	01°33'53"	1.445
22/11/2048 00:00:00	♀	13°33'03" ♄	-25°13'31"	o-02°29'44"	01°10'06"	0.985

Ephemerides year 2048

22/11/2048 00:00:00	♂	14°27'14" ♊	-18°00'20"	-01°35'02"	00°43'52"	1.284
22/11/2048 00:00:00	♃	29°07'20" ♋	22°57'43"	-00°28'02"	-00°06'18"	4.209
22/11/2048 00:00:00	♅	13°05'43" ♌	-22°30'03"	00°17'19"	00°05'49"	10.730
22/11/2048 00:00:00	♁	15°34'27" ♍	06°23'18"	00°45'45"	00°01'35"	18.525
22/11/2048 00:00:00	♆	22°14'20" ♎	16°35'11"	-01°47'48"	-00°01'40"	28.839
22/11/2048 00:00:00	♁	05°51'26" ♏	-21°01'48"	-12°35'53"	00°00'05"	41.072
22/11/2048 00:00:00	♄	18°31'51" ♐	-22°56'14"	00°00'00"	-00°00'06"	0.002
22/11/2048 00:00:00	♅	18°39'21" ♑	-15°33'34"	01°52'58"	00°08'07"	9.952
22/11/2048 00:00:00	♁	02°41'30" ♒	22°13'17"	-01°11'00"	00°06'39"	0.003
22/11/2048 00:00:00	♄♁	18°31'51" ♐♁	-22°56'14"	00°00'00"	-00°00'06"	0.002
22/11/2048 00:00:00	♁♅	05°09'23" ♏♅	21°49'13"	-01°30'45"	01°52'48"	0.003
22/11/2048 00:00:00	X	00°16'22" ♎♁	06°01'56"	-05°54'00"	-00°00'31"	92.200
22/11/2048 00:00:00	Y	17°19'39" ♋♁	11°40'04"	-11°12'29"	-00°00'37"	77.377
23/11/2048 00:00:00	♁	01°21'54" ♐♁	-20°25'40"	-00°00'00"	01°00'36"	0.988
23/11/2048 00:00:00	♁	28°56'08" ♋	22°28'21"	-00°57'20"	11°48'21"	0.003
23/11/2048 00:00:00	♁	06°12'15" ♐♁	-22°22'30"	-01°03'12"	01°33'43"	1.443
23/11/2048 00:00:00	♀	14°43'07" ♌♁	-25°06'38"	0-02°30'21"	01°10'00"	0.978
23/11/2048 00:00:00	♂	15°11'08" ♊	-17°46'13"	-01°33'46"	00°43'54"	1.291
23/11/2048 00:00:00	♃	29°00'57" ♋	22°57'46"	-00°27'56"	-00°06'26"	4.202

Ephemerides year 2048

23/11/2048 00:00:00	♃	13°11'34" ♍	-22°29'34"	00°17'13"	00°05'52"	10.742
23/11/2048 00:00:00	♃	15°36'01" ♍	06°22'44"	00°45'47"	00°01'32"	18.508
23/11/2048 00:00:00	♃	22°12'40" ♍	16°34'46"	-01°47'47"	-00°01'39"	28.842
23/11/2048 00:00:00	♃	05°51'32" ♋	-21°01'30"	-12°35'36"	00°00'06"	41.090
23/11/2048 00:00:00	♃	18°32'10" ♋	-22°56'16"	00°00'00"	00°00'43"	0.002
23/11/2048 00:00:00	♃	18°47'28" ♋	-15°35'29"	01°53'16"	00°08'06"	9.949
23/11/2048 00:00:00	♃	02°48'09" ♋	22°12'17"	-01°11'52"	00°06'39"	0.003
23/11/2048 00:00:00	T♃	18°32'10" ♋	-22°56'16"	00°00'00"	00°00'43"	0.002
23/11/2048 00:00:00	T♃	06°50'40" ♋	21°35'42"	-01°39'45"	01°32'27"	0.003
23/11/2048 00:00:00	X	00°15'51" ♍	06°01'49"	-05°53'56"	-00°00'31"	92.209
23/11/2048 00:00:00	Y	17°19'01" ♋	11°39'58"	-11°12'31"	-00°00'38"	77.372
24/11/2048 00:00:00	♃	02°22'32" ♋	-20°37'49"	-00°00'00"	01°00'38"	0.987
24/11/2048 00:00:00	♃	10°43'28" ♋	21°00'23"	-01°59'57"	11°46'48"	0.003
24/11/2048 00:00:00	♃	07°45'53" ♋	-22°44'01"	-01°09'02"	01°33'33"	1.440
24/11/2048 00:00:00	♃	15°53'05" ♋	-24°59'03"	0°02'30'53"	01°09'54"	0.971
24/11/2048 00:00:00	♃	15°55'04" ♋	-17°31'56"	-01°32'31"	00°43'57"	1.297
24/11/2048 00:00:00	♃	28°54'27" ♋	22°57'48"	-00°27'51"	-00°06'34"	4.195
24/11/2048 00:00:00	♃	13°17'28" ♋	-22°29'04"	00°17'08"	00°05'55"	10.752
24/11/2048 00:00:00	♃	15°37'32" ♋	06°22'12"	00°45'50"	00°01'28"	18.491



Ephemerides year 2048

24/11/2048 00:00:00	♁	22°11'01"	♄r	16°34'22"	-01°47'46"	-00°01'39"	28.845
24/11/2048 00:00:00	♁	05°51'39"	♃	-21°01'12"	-12°35'20"	00°00'08"	41.107
24/11/2048 00:00:00	♁	18°33'12"	♂	-22°56'21"	00°00'00"	00°01'16"	0.002
24/11/2048 00:00:00	♁	18°55'33"	♆	-15°37'23"	01°53'35"	00°08'04"	9.946
24/11/2048 00:00:00	♁	02°54'48"	♁	22°11'17"	-01°12'44"	00°06'39"	0.003
24/11/2048 00:00:00	T♁	18°33'12"	♂	-22°56'21"	00°00'00"	00°01'16"	0.002
24/11/2048 00:00:00	T♁	08°18'13"	♁	21°23'07"	-01°47'25"	01°23'49"	0.003
24/11/2048 00:00:00	X	00°15'20"	♄r	06°01'42"	-05°53'52"	-00°00'30"	92.218
24/11/2048 00:00:00	Y	17°18'23"	♃r	11°39'53"	-11°12'32"	-00°00'38"	77.367
25/11/2048 00:00:00	♁	03°23'11"	♂	-20°49'34"	-00°00'00"	01°00'39"	0.987
25/11/2048 00:00:00	♁	22°30'54"	♁	18°37'59"	-02°57'30"	11°48'40"	0.003
25/11/2048 00:00:00	♁	09°19'23"	♂	-23°04'24"	-01°14'44"	01°33'25"	1.436
25/11/2048 00:00:00	♁	17°02'56"	♁	-24°50'47"	o-02°31'17"	01°09'48"	0.964
25/11/2048 00:00:00	♁	16°39'02"	♁	-17°17'29"	-01°31'15"	00°43'59"	1.304
25/11/2048 00:00:00	♁	28°47'48"	♃r	22°57'50"	-00°27'45"	-00°06'42"	4.189
25/11/2048 00:00:00	♁	13°23'25"	♁	-22°28'34"	00°17'02"	00°05'58"	10.763
25/11/2048 00:00:00	♁	15°38'59"	♆	06°21'40"	00°45'52"	00°01'25"	18.475
25/11/2048 00:00:00	♁	22°09'21"	♄r	16°33'57"	-01°47'45"	-00°01'39"	28.848
25/11/2048 00:00:00	♁	05°51'48"	♃	-21°00'54"	-12°35'04"	00°00'09"	41.125

Ephemerides year 2048

25/11/2048 00:00:00	♏	18°34'36" ♃	-22°56'28"	00°00'00"	00°01'28"	0.002
25/11/2048 00:00:00	♋	19°03'38" ♃	-15°39'17"	01°53'53"	00°08'03"	9.943
25/11/2048 00:00:00	♋	03°01'27" ♃	22°10'17"	-01°13'35"	00°06'39"	0.003
25/11/2048 00:00:00	T♏	18°34'36" ♃	-22°56'28"	00°00'00"	00°01'28"	0.002
25/11/2048 00:00:00	T♋	09°38'53" ♃	21°10'49"	-01°54'22"	01°17'00"	0.003
25/11/2048 00:00:00	X	00°14'49" ♃	06°01'36"	-05°53'48"	-00°00'30"	92.227
25/11/2048 00:00:00	Y	17°17'45" ♃	11°39'48"	-11°12'34"	-00°00'38"	77.362
26/11/2048 00:00:00	♏	04°23'52" ♃	-21°00'56"	-00°00'00"	01°00'41"	0.987
26/11/2048 00:00:00	♏	04°22'07" ♃	15°28'18"	-03°47'48"	11°54'27"	0.003
26/11/2048 00:00:00	♋	10°52'44" ♃	-23°23'37"	-01°20'16"	01°33'17"	1.432
26/11/2048 00:00:00	♋	18°12'41" ♃	-24°41'51"	o-02°31'36"	01°09'41"	0.957
26/11/2048 00:00:00	♋	17°23'03" ♃	-17°02'54"	-01°30'00"	00°44'02"	1.311
26/11/2048 00:00:00	♋	28°41'02" ♃	22°57'52"	-00°27'40"	-00°06'49"	4.183
26/11/2048 00:00:00	♋	13°29'26" ♃	-22°28'03"	00°16'57"	00°06'01"	10.774
26/11/2048 00:00:00	♋	15°40'23" ♃	06°21'10"	00°45'55"	00°01'22"	18.458
26/11/2048 00:00:00	♋	22°07'42" ♃	16°33'33"	-01°47'44"	-00°01'38"	28.852
26/11/2048 00:00:00	♋	05°51'59" ♃	-21°00'35"	-12°34'47"	00°00'11"	41.143
26/11/2048 00:00:00	♏	18°36'02" ♃	-22°56'36"	00°00'00"	00°01'20"	0.002
26/11/2048 00:00:00	♋	19°11'41" ♃	-15°41'09"	01°54'12"	00°08'02"	9.940

Ephemerides year 2048

26/11/2048 00:00:00	☾	03°08'06" ♉	22°09'16"	-01°14'27"	00°06'38"	0.003
26/11/2048 00:00:00	♄	18°36'02" ♉	-22°56'36"	00°00'00"	00°01'20"	0.002
26/11/2048 00:00:00	♄	10°49'55" ♉	20°59'24"	-02°00'24"	01°03'21"	0.003
26/11/2048 00:00:00	X	00°14'19" ♉	06°01'30"	-05°53'43"	-00°00'29"	92.236
26/11/2048 00:00:00	Y	17°17'06" ♉	11°39'43"	-11°12'36"	-00°00'38"	77.358
27/11/2048 00:00:00	☉	05°24'34" ♉	-21°11'55"	-00°00'00"	01°00'43"	0.987
27/11/2048 00:00:00	☾	16°21'16" ♉	11°39'08"	-04°28'45"	12°04'35"	0.003
27/11/2048 00:00:00	♁	12°25'57" ♉	-23°41'39"	0-01°25'38"	01°33'09"	1.428
27/11/2048 00:00:00	♁	19°22'20" ♉	-24°32'14"	0-02°31'47"	01°09'35"	0.950
27/11/2048 00:00:00	♁	18°07'06" ♉	-16°48'09"	-01°28'45"	00°44'04"	1.317
27/11/2048 00:00:00	♁	28°34'09" ♉	22°57'54"	-00°27'34"	-00°06'57"	4.177
27/11/2048 00:00:00	♁	13°35'29" ♉	-22°27'32"	00°16'51"	00°06'04"	10.784
27/11/2048 00:00:00	♁	15°41'44" ♉	06°20'41"	00°45'57"	00°01'19"	18.441
27/11/2048 00:00:00	♁	22°06'04" ♉	16°33'09"	-01°47'43"	-00°01'38"	28.856
27/11/2048 00:00:00	♁	05°52'11" ♉	-21°00'15"	-12°34'31"	00°00'12"	41.160
27/11/2048 00:00:00	♁	18°37'12" ♉	-22°56'42"	00°00'00"	00°00'57"	0.002
27/11/2048 00:00:00	♁	19°19'42" ♉	-15°43'01"	01°54'31"	00°08'01"	9.937
27/11/2048 00:00:00	☾	03°14'45" ♉	22°08'15"	-01°15'18"	00°06'38"	0.003
27/11/2048 00:00:00	♄	18°37'12" ♉	-22°56'42"	00°00'00"	00°00'57"	0.002

Ephemerides year 2048

27/11/2048 00:00:00	T♄	11°41'28" ♉	20°50'48"	-02°04'44"	00°37'25"	0.003
27/11/2048 00:00:00	X	00°13'49" ♉	06°01'24"	-05°53'39"	-00°00'29"	92.246
27/11/2048 00:00:00	Y	17°16'27" ♉	11°39'38"	-11°12'37"	-00°00'39"	77.354
28/11/2048 00:00:00	☉	06°25'18" ♈	-21°22'29"	-00°00'00"	01°00'44"	0.987
28/11/2048 00:00:00	☾	28°32'50" ♈	07°18'23"	-04°58'23"	12°19'18"	0.003
28/11/2048 00:00:00	♀	13°59'04" ♈	-23°58'29"	o-01°30'49"	01°33'03"	1.422
28/11/2048 00:00:00	♀	20°31'52" ♈	-24°21'58"	o-02°31'52"	01°09'28"	0.943
28/11/2048 00:00:00	♂	18°51'12" ♏	-16°33'16"	-01°27'30"	00°44'06"	1.324
28/11/2048 00:00:00	♃	28°27'08" ♉	22°57'55"	-00°27'28"	-00°07'04"	4.171
28/11/2048 00:00:00	♅	13°41'35" ♈	-22°27'00"	00°16'46"	00°06'07"	10.794
28/11/2048 00:00:00	♁	15°43'02" ♏	06°20'13"	00°46'00"	00°01'16"	18.424
28/11/2048 00:00:00	♃	22°04'26" ♉	16°32'45"	-01°47'42"	-00°01'37"	28.860
28/11/2048 00:00:00	♁	05°52'24" ♏	-20°59'55"	-12°34'15"	00°00'14"	41.178
28/11/2048 00:00:00	♁	18°37'54" ♈	-22°56'45"	00°00'00"	00°00'24"	0.002
28/11/2048 00:00:00	♁	19°27'43" ♏	-15°44'51"	01°54'50"	00°07'59"	9.933
28/11/2048 00:00:00	♄	03°21'24" ♉	22°07'14"	-01°16'10"	00°06'38"	0.003
28/11/2048 00:00:00	T♁	18°37'54" ♈	-22°56'45"	00°00'00"	00°00'24"	0.002
28/11/2048 00:00:00	T♄	12°00'00" ♉	20°47'40"	-02°06'16"	-00°02'40"	0.003
28/11/2048 00:00:00	X	00°13'20" ♉	06°01'18"	-05°53'35"	-00°00'29"	92.256

Ephemerides year 2048

28/11/2048 00:00:00	Y	17°15'47" ♀	11°39'34"	-11°12'38"	-00°00'39"	77.351
29/11/2048 00:00:00	☉	07°26'03" ♀	-21°32'40"	-00°00'00"	01°00'46"	0.986
29/11/2048 00:00:00	☾	11°01'24" ♀	02°34'16"	-05°14'49"	12°38'34"	0.003
29/11/2048 00:00:00	♀	15°32'04" ♀	-24°14'05"	o-01°35'48"	01°32'57"	1.417
29/11/2048 00:00:00	♀	21°41'17" ♀	-24°11'02"	o-02°31'50"	01°09'21"	0.936
29/11/2048 00:00:00	♂	19°35'20" ♀	-16°18'14"	-01°26'15"	00°44'08"	1.331
29/11/2048 00:00:00	♃	28°20'01" ♀	22°57'56"	-00°27'22"	-00°07'10"	4.166
29/11/2048 00:00:00	♄	13°47'44" ♀	-22°26'28"	00°16'41"	00°06'10"	10.804
29/11/2048 00:00:00	♅	15°44'16" ♀	06°19'46"	00°46'03"	00°01'12"	18.407
29/11/2048 00:00:00	♆	22°02'48" ♂	16°32'21"	-01°47'41"	-00°01'37"	28.865
29/11/2048 00:00:00	♇	05°52'39" ♀	-20°59'34"	-12°33'58"	00°00'15"	41.195
29/11/2048 00:00:00	♈	18°38'01" ♀	-22°56'46"	00°00'00"	-00°00'10"	0.002
29/11/2048 00:00:00	♉	19°35'42" ♀	-15°46'41"	01°55'09"	00°07'58"	9.929
29/11/2048 00:00:00	♊	03°28'03" ♀	22°06'12"	-01°17'01"	00°06'38"	0.003
29/11/2048 00:00:00	T♋	18°38'01" ♀	-22°56'46"	00°00'00"	-00°00'10"	0.002
29/11/2048 00:00:00	T♌	11°32'09" ♀	20°52'27"	-02°03'54"	-00°54'31"	0.003
29/11/2048 00:00:00	X	00°12'51" ♂	06°01'12"	-05°53'30"	-00°00'28"	92.266
29/11/2048 00:00:00	Y	17°15'08" ♀	11°39'29"	-11°12'39"	-00°00'39"	77.347
30/11/2048 00:00:00	☉	08°26'50" ♀	-21°42'26"	-00°00'00"	01°00'47"	0.986

Ephemerides year 2048

30/11/2048 00:00:00	♃	23°51'20"	♏	-02°24'08"	-05°16'17"	13°01'52"	0.003
30/11/2048 00:00:00	♆	17°04'58"	♈	-24°28'26"	♁-01°40'35"	01°32'51"	1.410
30/11/2048 00:00:00	♀	22°50'35"	♌	-23°59'27"	♁-02°31'41"	01°09'14"	0.929
30/11/2048 00:00:00	♂	20°19'30"	♍	-16°03'03"	-01°25'00"	00°44'11"	1.337
30/11/2048 00:00:00	♂	28°12'47"	♁	22°57'56"	-00°27'16"	-00°07'17"	4.161
30/11/2048 00:00:00	♃	13°53'56"	♌	-22°25'55"	00°16'36"	00°06'13"	10.814
30/11/2048 00:00:00	♃	15°45'28"	♏	06°19'21"	00°46'05"	00°01'09"	18.390
30/11/2048 00:00:00	♃	22°01'11"	♁	16°31'58"	-01°47'40"	-00°01'36"	28.870
30/11/2048 00:00:00	♁	05°52'56"	♈	-20°59'13"	-12°33'42"	00°00'17"	41.213
30/11/2048 00:00:00	♁	18°37'35"	♈	-22°56'44"	00°00'00"	-00°00'39"	0.002
30/11/2048 00:00:00	♃	19°43'39"	♏	-15°48'30"	01°55'29"	00°07'56"	9.925
30/11/2048 00:00:00	♁	03°34'42"	♁	22°05'10"	-01°17'52"	00°06'38"	0.003
30/11/2048 00:00:00	♁	18°37'35"	♈	-22°56'44"	00°00'00"	-00°00'39"	0.002
30/11/2048 00:00:00	♁	10°09'38"	♁	21°06'04"	-01°56'52"	-01°50'09"	0.003
30/11/2048 00:00:00	X	00°12'22"	♁	06°01'06"	-05°53'25"	-00°00'28"	92.276
30/11/2048 00:00:00	Y	17°14'28"	♁	11°39'25"	-11°12'40"	-00°00'39"	77.344
01/12/2048 00:00:00	♁	09°27'39"	♈	-21°51'47"	-00°00'00"	01°00'49"	0.986
01/12/2048 00:00:00	♃	07°06'10"	♁	-07°25'45"	-05°01'19"	13°28'11"	0.003
01/12/2048 00:00:00	♆	18°37'46"	♈	-24°41'31"	♁-01°45'09"	01°32'45"	1.403

Ephemerides year 2048

01/12/2048 00:00:00	♀	23°59'46" ♍	-23°47'15"	o-02°31'25"	01°09'07"	0.921
01/12/2048 00:00:00	♂	21°03'42" ♏	-15°47'44"	-01°23'45"	00°44'13"	1.344
01/12/2048 00:00:00	♃	28°05'27" ♀	22°57'56"	-00°27'10"	-00°07'23"	4.156
01/12/2048 00:00:00	♅	14°00'10" ♍	-22°25'21"	00°16'30"	00°06'15"	10.823
01/12/2048 00:00:00	♁	15°46'36" ♋	06°18'57"	00°46'08"	00°01'06"	18.372
01/12/2048 00:00:00	♃	21°59'35" ♉	16°31'34"	-01°47'39"	-00°01'35"	28.875
01/12/2048 00:00:00	♁	05°53'14" ♋	-20°58'51"	-12°33'26"	00°00'18"	41.230
01/12/2048 00:00:00	♄	18°36'46" ♈	-22°56'40"	00°00'00"	-00°00'56"	0.002
01/12/2048 00:00:00	♃	19°51'35" ♋	-15°50'18"	01°55'48"	00°07'54"	9.920
01/12/2048 00:00:00	♁	03°41'21" ♋	22°04'08"	-01°18'44"	00°06'38"	0.003
01/12/2048 00:00:00	T♄	18°36'46" ♈	-22°56'40"	00°00'00"	-00°00'56"	0.002
01/12/2048 00:00:00	T♁	07°55'01" ♋	21°26'40"	-01°45'16"	-02°36'12"	0.003
01/12/2048 00:00:00	X	00°11'54" ♈	06°01'01"	-05°53'21"	-00°00'28"	92.287
01/12/2048 00:00:00	Y	17°13'49" ♀	11°39'21"	-11°12'41"	-00°00'39"	77.342
02/12/2048 00:00:00	☾	10°28'28" ♈	-22°00'43"	-00°00'00"	01°00'50"	0.986
02/12/2048 00:00:00	♃	20°48'09" ♉	-12°16'13"	-04°29'00"	13°55'49"	0.002
02/12/2048 00:00:00	♁	20°10'29" ♈	-24°53'18"	o-01°49'29"	01°32'40"	1.396
02/12/2048 00:00:00	♀	25°08'49" ♍	-23°34'24"	o-02°31'02"	01°08'59"	0.914
02/12/2048 00:00:00	♂	21°47'57" ♏	-15°32'16"	-01°22'31"	00°44'15"	1.351

Ephemerides year 2048

02/12/2048 00:00:00	♃	27°58'01" ♀r	22°57'56"	-00°27'03"	-00°07'28"	4.152
02/12/2048 00:00:00	♅	14°06'28" ♂	-22°24'47"	00°16'25"	00°06'18"	10.833
02/12/2048 00:00:00	♁	15°47'41" ♀	06°18'34"	00°46'10"	00°01'03"	18.355
02/12/2048 00:00:00	♆	21°58'00" ♂r	16°31'11"	-01°47'37"	-00°01'35"	28.880
02/12/2048 00:00:00	♁	05°53'34" ♀	-20°58'29"	-12°33'09"	00°00'20"	41.248
02/12/2048 00:00:00	♁	18°35'47" ♂r	-22°56'34"	00°00'00"	-00°01'00"	0.002
02/12/2048 00:00:00	♁	19°59'29" ♀	-15°52'05"	01°56'08"	00°07'53"	9.916
02/12/2048 00:00:00	♁	03°48'00" ♀	22°03'06"	-01°19'35"	00°06'38"	0.003
02/12/2048 00:00:00	♁	18°35'47" ♂r	-22°56'34"	00°00'00"	-00°01'00"	0.002
02/12/2048 00:00:00	♁	05°05'05" ♀	21°49'44"	-01°30'23"	-02°58'55"	0.003
02/12/2048 00:00:00	X	00°11'26" ♂r	06°00'56"	-05°53'16"	-00°00'27"	92.298
02/12/2048 00:00:00	Y	17°13'09" ♀r	11°39'16"	-11°12'41"	-00°00'39"	77.339
03/12/2048 00:00:00	♁	11°29'20" ♂	-22°09'13"	-00°00'00"	01°00'52"	0.986
03/12/2048 00:00:00	♁	04°57'29" ♀	-16°36'55"	-03°39'32"	14°22'26"	0.002
03/12/2048 00:00:00	♁	21°43'07" ♂	-25°03'46"	-01°53'34"	01°32'34"	1.388
03/12/2048 00:00:00	♀	26°17'44" ♂	-23°20'57"	-02°30'31"	01°08'51"	0.907
03/12/2048 00:00:00	♂	22°32'13" ♀	-15°16'40"	-01°21'16"	00°44'17"	1.358
03/12/2048 00:00:00	♃	27°50'29" ♀r	22°57'56"	-00°26'56"	-00°07'34"	4.147
03/12/2048 00:00:00	♅	14°12'47" ♂	-22°24'12"	00°16'20"	00°06'21"	10.842



Ephemerides year 2048

03/12/2048 00:00:00	♃	15°48'42" ♍	06°18'13"	00°46'13"	00°00'59"	18.338
03/12/2048 00:00:00	♃	21°56'25" ♏	16°30'48"	-01°47'36"	-00°01'34"	28.886
03/12/2048 00:00:00	♃	05°53'55" ♋	-20°58'06"	-12°32'53"	00°00'22"	41.266
03/12/2048 00:00:00	♃	18°34'49" ♏	-22°56'29"	00°00'00"	-00°00'52"	0.002
03/12/2048 00:00:00	♃	20°07'22" ♍	-15°53'51"	01°56'28"	00°07'51"	9.911
03/12/2048 00:00:00	♃	03°54'39" ♎	22°02'03"	-01°20'26"	00°06'39"	0.003
03/12/2048 00:00:00	♃	18°34'49" ♏	-22°56'29"	00°00'00"	-00°00'52"	0.002
03/12/2048 00:00:00	♃	02°06'43" ♎	22°10'23"	-01°14'32"	-02°53'29"	0.003
03/12/2048 00:00:00	X	00°10'59" ♏	06°00'51"	-05°53'11"	-00°00'27"	92.309
03/12/2048 00:00:00	Y	17°12'29" ♏	11°39'12"	-11°12'42"	-00°00'39"	77.337
04/12/2048 00:00:00	♃	12°30'13" ♏	-22°17'18"	-00°00'00"	01°00'53"	0.986
04/12/2048 00:00:00	♃	19°31'47" ♍	-20°05'17"	-02°34'36"	14°45'17"	0.002
04/12/2048 00:00:00	♃	23°15'38" ♏	-25°12'53"	-01°57'24"	01°32'28"	1.379
04/12/2048 00:00:00	♃	27°26'32" ♏	-23°06'53"	-02°29'53"	01°08'43"	0.900
04/12/2048 00:00:00	♃	23°16'32" ♏	-15°00'57"	-01°20'02"	00°44'19"	1.365
04/12/2048 00:00:00	♃	27°42'53" ♏	22°57'55"	-00°26'50"	-00°07'38"	4.144
04/12/2048 00:00:00	♃	14°19'10" ♏	-22°23'36"	00°16'15"	00°06'23"	10.851
04/12/2048 00:00:00	♃	15°49'40" ♍	06°17'53"	00°46'16"	00°00'56"	18.321
04/12/2048 00:00:00	♃	21°54'51" ♏	16°30'25"	-01°47'34"	-00°01'33"	28.892

Ephemerides year 2048

04/12/2048 00:00:00	♁	05°54'18" ♈	-20°57'42"	-12°32'37"	00°00'23"	41.283
04/12/2048 00:00:00	♁	18°34'05" ♈	-22°56'26"	00°00'00"	-00°00'34"	0.002
04/12/2048 00:00:00	♁	20°15'12" ♈	-15°55'36"	01°56'48"	00°07'49"	9.905
04/12/2048 00:00:00	♁	04°01'18" ♈	22°01'00"	-01°21'18"	00°06'39"	0.003
04/12/2048 00:00:00	♁	18°34'05" ♈	-22°56'26"	00°00'00"	-00°00'34"	0.002
04/12/2048 00:00:00	♁	29°24'32" ♈	22°25'54"	-00°59'56"	-02°29'04"	0.003
04/12/2048 00:00:00	X	00°10'32" ♈	06°00'46"	-05°53'07"	-00°00'26"	92.320
04/12/2048 00:00:00	Y	17°11'49" ♈	11°39'08"	-11°12'42"	-00°00'39"	77.335
05/12/2048 00:00:00	♁	13°31'07" ♈	-22°24'57"	-00°00'00"	01°00'54"	0.986
05/12/2048 00:00:00	♁	04°25'54" ♈	-22°17'47"	-01°17'49"	15°01'40"	0.002
05/12/2048 00:00:00	♁	24°48'03" ♈	-25°20'39"	-02°00'57"	01°32'21"	1.370
05/12/2048 00:00:00	♁	28°35'12" ♈	-22°52'13"	-02°29'07"	01°08'35"	0.893
05/12/2048 00:00:00	♁	24°00'52" ♈	-14°45'05"	-01°18'48"	00°44'21"	1.371
05/12/2048 00:00:00	♁	27°35'11" ♈	22°57'53"	-00°26'43"	-00°07'43"	4.140
05/12/2048 00:00:00	♁	14°25'35" ♈	-22°23'00"	00°16'10"	00°06'26"	10.859
05/12/2048 00:00:00	♁	15°50'35" ♈	06°17'34"	00°46'18"	00°00'53"	18.304
05/12/2048 00:00:00	♁	21°53'18" ♈	16°30'03"	-01°47'33"	-00°01'32"	28.899
05/12/2048 00:00:00	♁	05°54'42" ♈	-20°57'18"	-12°32'21"	00°00'25"	41.301
05/12/2048 00:00:00	♁	18°33'40" ♈	-22°56'23"	00°00'00"	-00°00'15"	0.002

Ephemerides year 2048

05/12/2048 00:00:00	♁	20°23'01" ♎	-15°57'20"	01°57'09"	00°07'47"	9.900
05/12/2048 00:00:00	♁	04°07'57" ♉	21°59'56"	-01°22'09"	00°06'39"	0.003
05/12/2048 00:00:00	♁	18°33'40" ♎	-22°56'23"	00°00'00"	-00°00'15"	0.002
05/12/2048 00:00:00	♁	27°09'00" ♎	22°36'29"	-00°47'36"	-02°03'14"	0.003
05/12/2048 00:00:00	X	00°10'06" ♎	06°00'41"	-05°53'02"	-00°00'26"	92.332
05/12/2048 00:00:00	Y	17°11'09" ♎	11°39'05"	-11°12'42"	-00°00'39"	77.334
06/12/2048 00:00:00	♁	14°32'02" ♎	-22°32'09"	-00°00'00"	01°00'55"	0.985
06/12/2048 00:00:00	♁	19°32'15" ♎	-22°55'46"	00°05'26"	15°09'29"	0.002
06/12/2048 00:00:00	♁	26°20'20" ♎	-25°27'03"	-02°04'12"	01°32'13"	1.360
06/12/2048 00:00:00	♁	29°43'43" ♎	-22°36'58"	-02°28'14"	01°08'26"	0.886
06/12/2048 00:00:00	♁	24°45'15" ♎	-14°29'06"	-01°17'34"	00°44'23"	1.378
06/12/2048 00:00:00	♁	27°27'26" ♎	22°57'52"	-00°26'36"	-00°07'47"	4.137
06/12/2048 00:00:00	♁	14°32'02" ♎	-22°22'24"	00°16'05"	00°06'28"	10.868
06/12/2048 00:00:00	♁	15°51'27" ♎	06°17'16"	00°46'21"	00°00'50"	18.286
06/12/2048 00:00:00	♁	21°51'45" ♎	16°29'41"	-01°47'31"	-00°01'31"	28.905
06/12/2048 00:00:00	♁	05°55'08" ♎	-20°56'53"	-12°32'05"	00°00'26"	41.318
06/12/2048 00:00:00	♁	18°33'33" ♎	-22°56'23"	00°00'00"	00°00'01"	0.002
06/12/2048 00:00:00	♁	20°30'48" ♎	-15°59'03"	01°57'29"	00°07'45"	9.894
06/12/2048 00:00:00	♁	04°14'36" ♉	21°58'53"	-01°23'00"	00°06'39"	0.003

Ephemerides year 2048

06/12/2048 00:00:00	T♄	18°33'33" ♄	-22°56'23"	00°00'00"	00°00'01"	0.002
06/12/2048 00:00:00	T♄	25°13'21" ♄	22°43'46"	-00°37'00"	-01°51'08"	0.003
06/12/2048 00:00:00	X	00°09'40" ♂	06°00'37"	-05°52'57"	-00°00'25"	92.343
06/12/2048 00:00:00	Y	17°10'29" ♄	11°39'01"	-11°12'42"	-00°00'40"	77.332
07/12/2048 00:00:00	☉	15°32'58" ♄	-22°38'56"	-00°00'00"	01°00'56"	0.985
07/12/2048 00:00:00	☾	04°41'42" ♄	-21°52'22"	01°28'37"	15°07'49"	0.002
07/12/2048 00:00:00	♃	27°52'29" ♄	-25°32'03"	0-02°07'09"	01°32'03"	1.349
07/12/2048 00:00:00	♀	00°52'05" ♃	-22°21'08"	-02°27'13"	01°08'17"	0.878
07/12/2048 00:00:00	♂	25°29'39" ♃	-14°13'00"	-01°16'20"	00°44'25"	1.385
07/12/2048 00:00:00	♃	27°19'36" ♄	22°57'50"	-00°26'29"	-00°07'51"	4.134
07/12/2048 00:00:00	♅	14°38'32" ♄	-22°21'46"	00°16'00"	00°06'30"	10.876
07/12/2048 00:00:00	♁	15°52'16" ♃	06°17'00"	00°46'24"	00°00'46"	18.269
07/12/2048 00:00:00	♃	21°50'14" ♂	16°29'19"	-01°47'29"	-00°01'30"	28.912
07/12/2048 00:00:00	♁	05°55'36" ♃	-20°56'28"	-12°31'49"	00°00'28"	41.335
07/12/2048 00:00:00	♄	18°33'40" ♄	-22°56'23"	00°00'00"	00°00'10"	0.002
07/12/2048 00:00:00	♁	20°38'33" ♃	-16°00'45"	01°57'50"	00°07'43"	9.889
07/12/2048 00:00:00	♃	04°21'15" ♃	21°57'49"	-01°23'51"	00°06'39"	0.003
07/12/2048 00:00:00	T♄	18°33'40" ♄	-22°56'23"	00°00'00"	00°00'10"	0.002
07/12/2048 00:00:00	T♄	23°20'12" ♄	22°49'21"	-00°26'33"	-01°58'10"	0.003

Ephemerides year 2048

07/12/2048 00:00:00	X	00°09'15" ♄	06°00'33"	-05°52'52"	-00°00'25"	92.355
07/12/2048 00:00:00	Y	17°09'49" ♀	11°38'58"	-11°12'42"	-00°00'40"	77.332
08/12/2048 00:00:00	☉	16°33'55" ♄	-22°45'15"	00°00'00"	01°00'57"	0.985
08/12/2048 00:00:00	☾	19°44'54" ♄	-19°15'25"	02°45'04"	14°57'11"	0.002
08/12/2048 00:00:00	♁	29°24'27" ♄	-25°35'37"	0-02°09'46"	01°31'52"	1.338
08/12/2048 00:00:00	♀	02°00'18" ♁	-22°04'45"	-02°26'04"	01°08'08"	0.871
08/12/2048 00:00:00	♂	26°14'05" ♁	-13°56'46"	-01°15'06"	00°44'26"	1.392
08/12/2048 00:00:00	♃	27°11'42" ♀	22°57'47"	-00°26'21"	-00°07'55"	4.131
08/12/2048 00:00:00	♅	14°45'04" ♄	-22°21'09"	00°15'55"	00°06'33"	10.884
08/12/2048 00:00:00	♆	15°53'00" ♃	06°16'45"	00°46'26"	00°00'43"	18.252
08/12/2048 00:00:00	♁	21°48'43" ♄	16°28'58"	-01°47'28"	-00°01'30"	28.920
08/12/2048 00:00:00	♂	05°56'05" ♃	-20°56'02"	-12°31'33"	00°00'29"	41.353
08/12/2048 00:00:00	♁	18°33'52" ♄	-22°56'24"	00°00'00"	00°00'11"	0.002
08/12/2048 00:00:00	♁	20°46'16" ♃	-16°02'26"	01°58'11"	00°07'41"	9.882
08/12/2048 00:00:00	♁	04°27'54" ♃	21°56'45"	-01°24'42"	00°06'39"	0.003
08/12/2048 00:00:00	T♁	18°33'52" ♄	-22°56'24"	00°00'00"	00°00'11"	0.002
08/12/2048 00:00:00	T♁	21°12'54" ♀	22°53'45"	-00°14'45"	-02°17'18"	0.003
08/12/2048 00:00:00	X	00°08'50" ♄	06°00'29"	-05°52'47"	-00°00'24"	92.368
08/12/2048 00:00:00	Y	17°09'09" ♀	11°38'55"	-11°12'42"	-00°00'40"	77.331

Ephemerides year 2048

09/12/2048 00:00:00	♁	17°34'53" ♀	-22°51'08"	00°00'00"	01°00'58"	0.985
09/12/2048 00:00:00	♃	04°33'40" ♁	-15°24'18"	03°49'08"	14°39'21"	0.002
09/12/2048 00:00:00	♁	00°56'13" ♀	-25°37'46"	0-02°12'02"	01°31'39"	1.326
09/12/2048 00:00:00	♁	03°08'21" ♁	-21°47'49"	-02°24'47"	01°07'58"	0.864
09/12/2048 00:00:00	♂	26°58'32" ♁	-13°40'25"	-01°13'53"	00°44'27"	1.399
09/12/2048 00:00:00	♃	27°03'45" ♃	22°57'44"	-00°26'14"	-00°07'58"	4.129
09/12/2048 00:00:00	♃	14°51'38" ♀	-22°20'30"	00°15'50"	00°06'35"	10.891
09/12/2048 00:00:00	♃	15°53'42" ♃	06°16'31"	00°46'29"	00°00'39"	18.234
09/12/2048 00:00:00	♁	21°47'14" ♃	16°28'37"	-01°47'26"	-00°01'29"	28.927
09/12/2048 00:00:00	♃	05°56'36" ♃	-20°55'36"	-12°31'17"	00°00'31"	41.370
09/12/2048 00:00:00	♁	18°34'01" ♀	-22°56'25"	00°00'00"	00°00'06"	0.002
09/12/2048 00:00:00	♁	20°53'56" ♃	-16°04'06"	01°58'32"	00°07'39"	9.876
09/12/2048 00:00:00	♁	04°34'34" ♃	21°55'40"	-01°25'33"	00°06'39"	0.003
09/12/2048 00:00:00	♁	18°34'01" ♀	-22°56'25"	00°00'00"	00°00'06"	0.002
09/12/2048 00:00:00	♁	18°47'12" ♃	22°56'19"	-00°01'13"	-02°31'33"	0.003
09/12/2048 00:00:00	X	00°08'25" ♃	06°00'25"	-05°52'42"	-00°00'24"	92.380
09/12/2048 00:00:00	Y	17°08'28" ♃	11°38'52"	-11°12'41"	-00°00'40"	77.331
10/12/2048 00:00:00	♁	18°35'51" ♀	-22°56'34"	00°00'00"	01°00'58"	0.985
10/12/2048 00:00:00	♃	19°02'01" ♁	-10°43'13"	04°37'00"	14°16'46"	0.002

Ephemerides year 2048

10/12/2048 00:00:00	♀	02°27'45" ♃	-25°38'29" ♁	-02°13'57"	01°31'22"	1.313
10/12/2048 00:00:00	♀	04°16'14" ♋	-21°30'21"	-02°23'23"	01°07'47"	0.857
10/12/2048 00:00:00	♂	27°43'00" ♋	-13°23'58"	-01°12'39"	00°44'29"	1.405
10/12/2048 00:00:00	♃	26°55'45" ♃	22°57'41"	-00°26'06"	-00°08'01"	4.127
10/12/2048 00:00:00	♃	14°58'14" ♃	-22°19'51"	00°15'45"	00°06'37"	10.899
10/12/2048 00:00:00	♃	15°54'20" ♃	06°16'19"	00°46'32"	00°00'36"	18.217
10/12/2048 00:00:00	♃	21°45'45" ♃	16°28'16"	-01°47'24"	-00°01'28"	28.935
10/12/2048 00:00:00	♃	05°57'08" ♃	-20°55'09"	-12°31'01"	00°00'32"	41.387
10/12/2048 00:00:00	♃	18°34'04" ♃	-22°56'25"	00°00'00"	00°00'00"	0.002
10/12/2048 00:00:00	♃	21°01'35" ♃	-16°05'45"	01°58'54"	00°07'36"	9.870
10/12/2048 00:00:00	♃	04°41'13" ♃	21°54'35"	-01°26'24"	00°06'39"	0.003
10/12/2048 00:00:00	♃	18°34'04" ♃	-22°56'25"	00°00'00"	00°00'00"	0.002
10/12/2048 00:00:00	♃	16°17'55" ♃	22°56'13"	00°12'38"	-02°21'50"	0.003
10/12/2048 00:00:00	X	00°08'01" ♃	06°00'22"	-05°52'37"	-00°00'23"	92.393
10/12/2048 00:00:00	Y	17°07'48" ♃	11°38'49"	-11°12'40"	-00°00'40"	77.331
11/12/2048 00:00:00	♃	19°36'51" ♃	-23°01'33"	00°00'00"	01°00'59"	0.985
11/12/2048 00:00:00	♃	03°06'31" ♃	-05°35'21"	05°06'42"	13°52'04"	0.003
11/12/2048 00:00:00	♀	03°58'58" ♃	-25°37'44" ♁	-02°15'27"	01°31'03"	1.300
11/12/2048 00:00:00	♀	05°23'56" ♋	-21°12'22"	-02°21'50"	01°07'36"	0.849

Ephemerides year 2048

11/12/2048 00:00:00	♂	28°27'30" ♁	-13°07'24"	-01°11'26"	00°44'30"	1.412
11/12/2048 00:00:00	♃	26°47'43" ♃	22°57'37"	-00°25'59"	-00°08'03"	4.125
11/12/2048 00:00:00	♅	15°04'52" ♃	-22°19'12"	00°15'40"	00°06'38"	10.906
11/12/2048 00:00:00	♁	15°54'55" ♃	06°16'08"	00°46'34"	00°00'32"	18.200
11/12/2048 00:00:00	♃	21°44'18" ♃	16°27'55"	-01°47'22"	-00°01'27"	28.943
11/12/2048 00:00:00	♁	05°57'41" ♃	-20°54'42"	-12°30'45"	00°00'34"	41.404
11/12/2048 00:00:00	♁	18°34'02" ♃	-22°56'25"	00°00'00"	-00°00'03"	0.002
11/12/2048 00:00:00	♃	21°09'10" ♃	-16°07'22"	01°59'15"	00°07'34"	9.863
11/12/2048 00:00:00	♁	04°47'52" ♃	21°53'30"	-01°27'15"	00°06'39"	0.003
11/12/2048 00:00:00	♁	18°34'02" ♃	-22°56'25"	00°00'00"	-00°00'03"	0.002
11/12/2048 00:00:00	♁	14°14'31" ♃	22°54'01"	00°24'03"	-01°39'44"	0.003
11/12/2048 00:00:00	X	00°07'38" ♃	06°00'19"	-05°52'32"	-00°00'23"	92.406
11/12/2048 00:00:00	Y	17°07'08" ♃	11°38'46"	-11°12'40"	-00°00'40"	77.331
12/12/2048 00:00:00	♁	20°37'50" ♃	-23°06'04"	00°00'00"	01°00'59"	0.985
12/12/2048 00:00:00	♁	16°46'13" ♃	-00°20'10"	05°17'59"	13°27'29"	0.003
12/12/2048 00:00:00	♁	05°29'49" ♃	-25°35'31"	-02°16'32"	01°30'39"	1.286
12/12/2048 00:00:00	♀	06°31'27" ♁	-20°53'51"	-02°20'10"	01°07'25"	0.842
12/12/2048 00:00:00	♂	29°12'01" ♁	-12°50'43"	-01°10'14"	00°44'31"	1.419
12/12/2048 00:00:00	♃	26°39'38" ♃	22°57'33"	-00°25'51"	-00°08'05"	4.124



Ephemerides year 2048

12/12/2048 00:00:00	♃	15°11'32" ♌	-22°18'32"	00°15'35"	00°06'40"	10.913
12/12/2048 00:00:00	♅	15°55'26" ♍	06°15'58"	00°46'37"	00°00'29"	18.183
12/12/2048 00:00:00	♆	21°42'51" ♎	16°27'35"	-01°47'20"	-00°01'26"	28.951
12/12/2048 00:00:00	♁	05°58'16" ♋	-20°54'14"	-12°30'30"	00°00'35"	41.421
12/12/2048 00:00:00	♄	18°33'59" ♉	-22°56'25"	00°00'00"	-00°00'01"	0.002
12/12/2048 00:00:00	♆	21°16'44" ♎	-16°08'59"	01°59'37"	00°07'32"	9.856
12/12/2048 00:00:00	♁	04°54'31" ♋	21°52'25"	-01°28'06"	00°06'38"	0.003
12/12/2048 00:00:00	T♄	18°33'59" ♉	-22°56'25"	00°00'00"	-00°00'01"	0.002
12/12/2048 00:00:00	T♁	13°06'47" ♋	22°52'01"	00°30'19"	-00°32'53"	0.003
12/12/2048 00:00:00	X	00°07'15" ♎	06°00'16"	-05°52'27"	-00°00'22"	92.419
12/12/2048 00:00:00	Y	17°06'28" ♋	11°38'44"	-11°12'39"	-00°00'40"	77.332
13/12/2048 00:00:00	♃	21°38'50" ♉	-23°10'08"	00°00'00"	01°01'00"	0.984
13/12/2048 00:00:00	♄	00°02'06" ♉	04°46'53"	05°11'49"	13°04'41"	0.003
13/12/2048 00:00:00	♆	07°00'14" ♎	-25°31'49"	0°02'17'11"	01°30'10"	1.271
13/12/2048 00:00:00	♀	07°38'47" ♍	-20°34'51"	-02°18'21"	01°07'13"	0.835
13/12/2048 00:00:00	♂	29°56'32" ♍	-12°33'56"	-01°09'01"	00°44'32"	1.426
13/12/2048 00:00:00	♁	26°31'32" ♋	22°57'29"	-00°25'43"	-00°08'07"	4.123
13/12/2048 00:00:00	♃	15°18'14" ♌	-22°17'51"	00°15'30"	00°06'42"	10.920
13/12/2048 00:00:00	♅	15°55'54" ♍	06°15'50"	00°46'39"	00°00'26"	18.166

Ephemerides year 2048

13/12/2048 00:00:00	♁	21°41'25"	♄	16°27'15"	-01°47'18"	-00°01'24"	28.960
13/12/2048 00:00:00	♁	05°58'52"	♄	-20°53'46"	-12°30'14"	00°00'37"	41.438
13/12/2048 00:00:00	♁	18°34'00"	♄	-22°56'25"	00°00'00"	00°00'06"	0.002
13/12/2048 00:00:00	♁	21°24'14"	♄	-16°10'34"	01°59'59"	00°07'29"	9.849
13/12/2048 00:00:00	♁	05°01'10"	♄	21°51'20"	-01°28'57"	00°06'39"	0.003
13/12/2048 00:00:00	T♁	18°34'00"	♄	-22°56'25"	00°00'00"	00°00'06"	0.002
13/12/2048 00:00:00	T♁	13°11'30"	♄	22°52'11"	00°29'53"	00°42'22"	0.003
13/12/2048 00:00:00	X	00°06'53"	♄	06°00'13"	-05°52'22"	-00°00'22"	92.432
13/12/2048 00:00:00	Y	17°05'48"	♄	11°38'41"	-11°12'37"	-00°00'40"	77.332
14/12/2048 00:00:00	♁	22°39'51"	♄	-23°13'44"	00°00'00"	01°01'00"	0.984
14/12/2048 00:00:00	♁	12°56'31"	♄	09°33'27"	04°49'55"	12°44'40"	0.003
14/12/2048 00:00:00	♁	08°30'08"	♄	-25°26'39"	0-02°17'22"	01°29'35"	1.255
14/12/2048 00:00:00	♁	08°45'55"	♄	-20°15'22"	-02°16'24"	01°07'01"	0.828
14/12/2048 00:00:00	♁	00°41'05"	♄	-12°17'04"	-01°07'49"	00°44'32"	1.433
14/12/2048 00:00:00	♁	26°23'24"	♄	22°57'23"	-00°25'35"	-00°08'08"	4.122
14/12/2048 00:00:00	♁	15°24'57"	♄	-22°17'10"	00°15'25"	00°06'44"	10.926
14/12/2048 00:00:00	♁	15°56'18"	♄	06°15'43"	00°46'42"	00°00'22"	18.148
14/12/2048 00:00:00	♁	21°40'01"	♄	16°26'55"	-01°47'16"	-00°01'23"	28.969
14/12/2048 00:00:00	♁	05°59'30"	♄	-20°53'18"	-12°29'59"	00°00'38"	41.455

Ephemerides year 2048

14/12/2048 00:00:00	♏	18°34'13" ♄	-22°56'26"	00°00'00"	00°00'19"	0.002
14/12/2048 00:00:00	♋	21°31'43" ♃	-16°12'09"	02°00'21"	00°07'26"	9.841
14/12/2048 00:00:00	♌	05°07'49" ♃	21°50'14"	-01°29'48"	00°06'39"	0.003
14/12/2048 00:00:00	♏	18°34'13" ♄	-22°56'26"	00°00'00"	00°00'19"	0.002
14/12/2048 00:00:00	♌	14°29'26" ♃	22°54'24"	00°22'41"	01°51'33"	0.003
14/12/2048 00:00:00	X	00°06'31" ♄	06°00'10"	-05°52'16"	-00°00'21"	92.445
14/12/2048 00:00:00	Y	17°05'07" ♃	11°38'39"	-11°12'36"	-00°00'40"	77.334
15/12/2048 00:00:00	♏	23°40'52" ♄	-23°16'53"	00°00'00"	01°01'01"	0.984
15/12/2048 00:00:00	♎	25°32'32" ♃	13°49'05"	04°14'26"	12°27'54"	0.003
15/12/2048 00:00:00	♌	09°59'23" ♄	-25°20'01"	0-02°17'02"	01°28'53"	1.239
15/12/2048 00:00:00	♌	09°52'50" ♃	-19°55'24"	-02°14'19"	01°06'49"	0.820
15/12/2048 00:00:00	♌	01°25'38" ♃	-12°00'05"	-01°06'37"	00°44'33"	1.440
15/12/2048 00:00:00	♌	26°15'15" ♃	22°57'18"	-00°25'27"	-00°08'09"	4.122
15/12/2048 00:00:00	♌	15°31'43" ♄	-22°16'29"	00°15'20"	00°06'46"	10.932
15/12/2048 00:00:00	♌	15°56'39" ♃	06°15'37"	00°46'45"	00°00'19"	18.131
15/12/2048 00:00:00	♌	21°38'38" ♄	16°26'36"	-01°47'14"	-00°01'22"	28.978
15/12/2048 00:00:00	♌	06°00'10" ♃	-20°52'49"	-12°29'44"	00°00'40"	41.472
15/12/2048 00:00:00	♏	18°34'40" ♄	-22°56'28"	00°00'00"	00°00'33"	0.002
15/12/2048 00:00:00	♋	21°39'08" ♃	-16°13'42"	02°00'43"	00°07'24"	9.833

Ephemerides year 2048

15/12/2048 00:00:00	☾	05°14'28" ♉	21°49'07"	-01°30'38"	00°06'39"	0.003
15/12/2048 00:00:00	♄	18°34'40" ♉	-22°56'28"	00°00'00"	00°00'33"	0.002
15/12/2048 00:00:00	♄	16°49'44" ♉	22°56'31"	00°09'44"	02°46'13"	0.003
15/12/2048 00:00:00	X	00°06'09" ♉	06°00'08"	-05°52'11"	-00°00'21"	92.459
15/12/2048 00:00:00	Y	17°04'27" ♉	11°38'37"	-11°12'35"	-00°00'39"	77.335
16/12/2048 00:00:00	☉	24°41'54" ♉	-23°19'33"	00°00'00"	01°01'01"	0.984
16/12/2048 00:00:00	☾	07°53'27" ♉	17°24'33"	03°27'44"	12°14'28"	0.003
16/12/2048 00:00:00	♁	11°27'52" ♉	-25°11'55"	0°16'10"	01°28'02"	1.222
16/12/2048 00:00:00	♁	10°59'33" ♉	-19°35'00"	-02°12'05"	01°06'36"	0.813
16/12/2048 00:00:00	♂	02°10'12" ♉	-11°43'00"	-01°05'25"	00°44'34"	1.447
16/12/2048 00:00:00	♂	26°07'05" ♉	22°57'12"	-00°25'19"	-00°08'09"	4.121
16/12/2048 00:00:00	♁	15°38'30" ♉	-22°15'46"	00°15'16"	00°06'47"	10.938
16/12/2048 00:00:00	♁	15°56'57" ♉	06°15'33"	00°46'47"	00°00'15"	18.114
16/12/2048 00:00:00	♁	21°37'16" ♉	16°26'17"	-01°47'12"	-00°01'21"	28.988
16/12/2048 00:00:00	♁	06°00'50" ♉	-20°52'19"	-12°29'28"	00°00'41"	41.489
16/12/2048 00:00:00	♁	18°35'18" ♉	-22°56'32"	00°00'00"	00°00'42"	0.002
16/12/2048 00:00:00	♁	21°46'31" ♉	-16°15'13"	02°01'05"	00°07'21"	9.826
16/12/2048 00:00:00	☾	05°21'07" ♉	21°48'01"	-01°31'29"	00°06'39"	0.003
16/12/2048 00:00:00	♄	18°35'18" ♉	-22°56'32"	00°00'00"	00°00'42"	0.002

Ephemerides year 2048

16/12/2048 00:00:00	T♄	19°55'53" ♀	22°55'34"	-00°07'28"	03°23'01"	0.003
16/12/2048 00:00:00	X	00°05'49" ♂♄	06°00'06"	-05°52'06"	-00°00'20"	92.473
16/12/2048 00:00:00	Y	17°03'47" ♀♄	11°38'35"	-11°12'33"	-00°00'39"	77.337
17/12/2048 00:00:00	☉	25°42'56" ♂♄	-23°21'46"	00°00'00"	01°01'02"	0.984
17/12/2048 00:00:00	☾	20°02'30" ♂♄	20°11'30"	02°32'20"	12°04'08"	0.003
17/12/2048 00:00:00	♀	12°55'25" ♂♄	-25°02'22"	0-02°14'43"	01°27'02"	1.204
17/12/2048 00:00:00	♀	12°06'03" ♀♄	-19°14'08"	-02°09'42"	01°06'22"	0.806
17/12/2048 00:00:00	♂	02°54'46" ♀♄	-11°25'51"	-01°04'14"	00°44'34"	1.454
17/12/2048 00:00:00	♃	25°58'55" ♀♄	22°57'06"	-00°25'10"	-00°08'09"	4.122
17/12/2048 00:00:00	♅	15°45'19" ♂♄	-22°15'04"	00°15'11"	00°06'49"	10.944
17/12/2048 00:00:00	♁	15°57'11" ♀♄	06°15'30"	00°46'50"	00°00'12"	18.097
17/12/2048 00:00:00	♃	21°35'55" ♂♄	16°25'58"	-01°47'09"	-00°01'20"	28.997
17/12/2048 00:00:00	♁	06°01'33" ♀♄	-20°51'49"	-12°29'13"	00°00'42"	41.506
17/12/2048 00:00:00	♁	18°36'02" ♂♄	-22°56'35"	00°00'00"	00°00'43"	0.002
17/12/2048 00:00:00	♁	21°53'51" ♀♄	-16°16'44"	02°01'28"	00°07'18"	9.817
17/12/2048 00:00:00	♁	05°27'46" ♀♄	21°46'54"	-01°32'20"	00°06'39"	0.003
17/12/2048 00:00:00	T♁	18°36'02" ♂♄	-22°56'35"	00°00'00"	00°00'43"	0.002
17/12/2048 00:00:00	T♄	23°29'44" ♀	22°49'10"	-00°27'12"	03°41'46"	0.003
17/12/2048 00:00:00	X	00°05'29" ♂♄	06°00'04"	-05°52'00"	-00°00'19"	92.486

Ephemerides year 2048

17/12/2048 00:00:00	Y	17°03'08" ♀	11°38'33"	-11°12'31"	-00°00'39"	77.339
18/12/2048 00:00:00	☉	26°43'59" ♄	-23°23'30"	-00°00'00"	01°01'03"	0.984
18/12/2048 00:00:00	☾	02°02'40" ♀	22°02'53"	01°30'51"	11°56'38"	0.003
18/12/2048 00:00:00	♀	14°21'53" ♄	-24°51'23"	0-02°12'40"	01°25'50"	1.185
18/12/2048 00:00:00	♀	13°12'19" ♁	-18°52'50"	-02°07'11"	01°06'09"	0.798
18/12/2048 00:00:00	♂	03°39'21" ♃	-11°08'35"	-01°03'02"	00°44'35"	1.461
18/12/2048 00:00:00	♃	25°50'45" ♀	22°56'59"	-00°25'02"	-00°08'09"	4.122
18/12/2048 00:00:00	♃	15°52'09" ♄	-22°14'20"	00°15'06"	00°06'51"	10.950
18/12/2048 00:00:00	♃	15°57'22" ♃	06°15'28"	00°46'53"	00°00'09"	18.080
18/12/2048 00:00:00	♃	21°34'36" ♄	16°25'40"	-01°47'07"	-00°01'18"	29.007
18/12/2048 00:00:00	♃	06°02'16" ♃	-20°51'19"	-12°28'58"	00°00'44"	41.522
18/12/2048 00:00:00	♃	18°36'42" ♄	-22°56'39"	00°00'00"	00°00'33"	0.002
18/12/2048 00:00:00	♃	22°01'09" ♃	-16°18'14"	02°01'51"	00°07'15"	9.809
18/12/2048 00:00:00	♃	05°34'25" ♃	21°45'47"	-01°33'10"	00°06'39"	0.003
18/12/2048 00:00:00	T♃	18°36'42" ♄	-22°56'39"	00°00'00"	00°00'33"	0.002
18/12/2048 00:00:00	T♃	27°14'09" ♀	22°36'25"	-00°47'47"	03°44'44"	0.003
18/12/2048 00:00:00	X	00°05'09" ♄	06°00'02"	-05°51'55"	-00°00'19"	92.501
18/12/2048 00:00:00	Y	17°02'28" ♀	11°38'31"	-11°12'29"	-00°00'39"	77.341
19/12/2048 00:00:00	☉	27°45'02" ♄	-23°24'47"	-00°00'00"	01°01'03"	0.984

Ephemerides year 2048

19/12/2048 00:00:00	♃	13°56'36" ♀	22°53'47"	00°25'57"	11°51'36"	0.003
19/12/2048 00:00:00	♄	15°47'01" ♂	-24°39'00"	0°09'58"	01°24'24"	1.166
19/12/2048 00:00:00	♅	14°18'21" ♀	-18°31'08"	-02°04'31"	01°05'54"	0.791
19/12/2048 00:00:00	♆	04°23'56" ♂	-10°51'15"	-01°01'51"	00°44'35"	1.468
19/12/2048 00:00:00	♇	25°42'36" ♀	22°56'52"	-00°24'53"	-00°08'09"	4.123
19/12/2048 00:00:00	♈	15°59'01" ♂	-22°13'36"	00°15'01"	00°06'52"	10.955
19/12/2048 00:00:00	♉	15°57'30" ♀	06°15'27"	00°46'55"	00°00'05"	18.063
19/12/2048 00:00:00	♊	21°33'18" ♂	16°25'22"	-01°47'05"	-00°01'17"	29.017
19/12/2048 00:00:00	♋	06°03'02" ♂	-20°50'48"	-12°28'44"	00°00'45"	41.539
19/12/2048 00:00:00	♌	18°37'06" ♂	-22°56'41"	00°00'00"	00°00'11"	0.002
19/12/2048 00:00:00	♍	22°08'23" ♀	-16°19'42"	02°02'14"	00°07'13"	9.801
19/12/2048 00:00:00	♎	05°41'04" ♀	21°44'40"	-01°34'01"	00°06'39"	0.003
19/12/2048 00:00:00	♏	18°37'06" ♂	-22°56'41"	00°00'00"	00°00'11"	0.002
19/12/2048 00:00:00	♐	00°55'35" ♀	22°17'51"	-01°07'53"	03°36'50"	0.003
19/12/2048 00:00:00	♑	00°04'50" ♂	06°00'01"	-05°51'49"	-00°00'18"	92.515
19/12/2048 00:00:00	♒	17°01'49" ♀	11°38'30"	-11°12'27"	-00°00'39"	77.344
20/12/2048 00:00:00	♓	28°46'06" ♂	-23°25'35"	-00°00'00"	01°01'04"	0.984
20/12/2048 00:00:00	♈	25°46'37" ♀	22°42'14"	-00°39'40"	11°48'47"	0.003
20/12/2048 00:00:00	♉	17°10'36" ♂	-24°25'16"	0°06'34"	01°22'42"	1.146

Ephemerides year 2048

20/12/2048 00:00:00	♀	15°24'08" ♊	-18°09'01"	-02°01'43"	01°05'40"	0.784
20/12/2048 00:00:00	♂	05°08'32" ♋	-10°33'50"	-01°00'41"	00°44'35"	1.475
20/12/2048 00:00:00	♃	25°34'27" ♋r	22°56'45"	-00°24'44"	-00°08'08"	4.124
20/12/2048 00:00:00	♄	16°05'54" ♌	-22°12'52"	00°14'56"	00°06'53"	10.960
20/12/2048 00:00:00	♅	15°57'34" ♌	06°15'28"	00°46'58"	00°00'02"	18.046
20/12/2048 00:00:00	♆	21°32'01" ♌r	16°25'05"	-01°47'02"	-00°01'16"	29.028
20/12/2048 00:00:00	♁	06°03'48" ♋	-20°50'17"	-12°28'29"	00°00'47"	41.555
20/12/2048 00:00:00	♁	18°37'03" ♋r	-22°56'40"	00°00'00"	-00°00'20"	0.002
20/12/2048 00:00:00	♃	22°15'35" ♌	-16°21'09"	02°02'37"	00°07'10"	9.792
20/12/2048 00:00:00	♁	05°47'44" ♋	21°43'32"	-01°34'51"	00°06'39"	0.003
20/12/2048 00:00:00	T♁	18°37'03" ♋r	-22°56'40"	00°00'00"	-00°00'20"	0.002
20/12/2048 00:00:00	T♁	04°26'30" ♋	21°54'43"	-01°26'46"	03°24'55"	0.003
20/12/2048 00:00:00	X	00°04'32" ♌r	06°00'00"	-05°51'44"	-00°00'18"	92.529
20/12/2048 00:00:00	Y	17°01'09" ♋r	11°38'29"	-11°12'25"	-00°00'39"	77.347
21/12/2048 00:00:00	♁	29°47'10" ♋	-23°25'55"	-00°00'00"	01°01'04"	0.984
21/12/2048 00:00:00	♃	07°34'52" ♋	21°29'42"	-01°43'22"	11°48'03"	0.003
21/12/2048 00:00:00	♄	18°32'20" ♌	-24°10'14"	o-02°02'25"	01°20'41"	1.124
21/12/2048 00:00:00	♀	16°29'41" ♊	-17°46'31"	-01°58'45"	01°05'24"	0.776
21/12/2048 00:00:00	♂	05°53'08" ♋	-10°16'20"	-00°59'30"	00°44'35"	1.482



Ephemerides year 2048

21/12/2048 00:00:00	♃	25°26'20" ♀	22°56'37"	-00°24'36"	-00°08'06"	4.126
21/12/2048 00:00:00	♅	16°12'48" ♂	-22°12'07"	00°14'52"	00°06'55"	10.965
21/12/2048 00:00:00	♁	15°57'35" ♀	06°15'30"	00°47'01"	-00°00'00"	18.030
21/12/2048 00:00:00	♆	21°30'46" ♂	16°24'48"	-01°47'00"	-00°01'14"	29.039
21/12/2048 00:00:00	♁	06°04'36" ♀	-20°49'45"	-12°28'14"	00°00'48"	41.571
21/12/2048 00:00:00	♁	18°36'24" ♂	-22°56'37"	00°00'00"	-00°00'57"	0.002
21/12/2048 00:00:00	♁	22°22'43" ♀	-16°22'35"	02°03'00"	00°07'07"	9.783
21/12/2048 00:00:00	♁	05°54'23" ♀	21°42'24"	-01°35'42"	00°06'39"	0.003
21/12/2048 00:00:00	♁	18°36'24" ♂	-22°56'37"	00°00'00"	-00°00'57"	0.002
21/12/2048 00:00:00	♁	07°46'09" ♀	21°28'04"	-01°44'21"	03°15'00"	0.003
21/12/2048 00:00:00	X	00°04'14" ♂	05°59'59"	-05°51'38"	-00°00'17"	92.544
21/12/2048 00:00:00	Y	17°00'30" ♀	11°38'28"	-11°12'22"	-00°00'39"	77.350
22/12/2048 00:00:00	♁	00°48'15" ♂	-23°25'47"	-00°00'00"	01°01'05"	0.984
22/12/2048 00:00:00	♁	19°23'26" ♀	19°20'52"	-02°42'37"	11°49'23"	0.003
22/12/2048 00:00:00	♁	19°51'53" ♂	-23°53'58"	-01°57'29"	01°18'19"	1.103
22/12/2048 00:00:00	♀	17°34'58" ♀	-17°23'39"	-01°55'39"	01°05'08"	0.769
22/12/2048 00:00:00	♂	06°37'44" ♀	-09°58'45"	-00°58'20"	00°44'36"	1.489
22/12/2048 00:00:00	♃	25°18'14" ♀	22°56'29"	-00°24'27"	-00°08'05"	4.127
22/12/2048 00:00:00	♅	16°19'44" ♂	-22°11'22"	00°14'47"	00°06'56"	10.969

Ephemerides year 2048

22/12/2048 00:00:00	♃	15°57'32" ♃r	06°15'34"	00°47'03"	-00°00'04"	18.013
22/12/2048 00:00:00	♃	21°29'32" ♃r	16°24'31"	-01°46'57"	-00°01'13"	29.049
22/12/2048 00:00:00	♃	06°05'25" ♃	-20°49'13"	-12°28'00"	00°00'50"	41.587
22/12/2048 00:00:00	♃	18°35'07" ♃r	-22°56'31"	00°00'00"	-00°01'35"	0.002
22/12/2048 00:00:00	♃	22°29'49" ♃	-16°24'00"	02°03'24"	00°07'03"	9.774
22/12/2048 00:00:00	♃	06°01'02" ♃	21°41'16"	-01°36'32"	00°06'39"	0.003
22/12/2048 00:00:00	T♃	18°35'07" ♃r	-22°56'31"	00°00'00"	-00°01'35"	0.002
22/12/2048 00:00:00	T♃	10°57'51" ♃	20°58'14"	-02°00'56"	03°08'50"	0.003
22/12/2048 00:00:00	X	00°03'57" ♃r	05°59'58"	-05°51'33"	-00°00'16"	92.559
22/12/2048 00:00:00	Y	16°59'51" ♃r	11°38'27"	-11°12'20"	-00°00'38"	77.354
23/12/2048 00:00:00	♃	01°49'21" ♃	-23°25'11"	-00°00'00"	01°01'05"	0.984
23/12/2048 00:00:00	♃	01°14'25" ♃	16°22'44"	-03°35'00"	11°52'57"	0.003
23/12/2048 00:00:00	♃	21°08'51" ♃	-23°36'33"	0-01°51'43"	01°15'32"	1.080
23/12/2048 00:00:00	♃	18°39'59" ♃	-17°00'25"	-01°52'24"	01°04'52"	0.762
23/12/2048 00:00:00	♃	07°22'20" ♃	-09°41'06"	-00°57'10"	00°44'36"	1.496
23/12/2048 00:00:00	♃	25°10'09" ♃r	22°56'21"	-00°24'18"	-00°08'03"	4.129
23/12/2048 00:00:00	♃	16°26'41" ♃	-22°10'36"	00°14'42"	00°06'57"	10.974
23/12/2048 00:00:00	♃	15°57'26" ♃r	06°15'38"	00°47'06"	-00°00'07"	17.996
23/12/2048 00:00:00	♃	21°28'19" ♃r	16°24'15"	-01°46'55"	-00°01'11"	29.061

Ephemerides year 2048

23/12/2048 00:00:00	♁	06°06'16"	♈	-20°48'41"	-12°27'46"	00°00'51"	41.603
23/12/2048 00:00:00	♁	18°33'16"	♈	-22°56'21"	00°00'00"	-00°02'04"	0.002
23/12/2048 00:00:00	♁	22°36'51"	♈	-16°25'23"	02°03'48"	00°07'00"	9.765
23/12/2048 00:00:00	♁	06°07'41"	♈	21°40'08"	-01°37'23"	00°06'39"	0.003
23/12/2048 00:00:00	♁	18°33'16"	♈	-22°56'21"	00°00'00"	-00°02'04"	0.002
23/12/2048 00:00:00	♁	14°04'04"	♈	20°25'24"	-02°16'42"	03°03'15"	0.003
23/12/2048 00:00:00	X	00°03'40"	♈	05°59'57"	-05°51'27"	-00°00'16"	92.574
23/12/2048 00:00:00	Y	16°59'12"	♈	11°38'26"	-11°12'17"	-00°00'38"	77.358
24/12/2048 00:00:00	♁	02°50'27"	♈	-23°24'06"	-00°00'00"	01°01'06"	0.984
24/12/2048 00:00:00	♁	13°10'11"	♈	12°43'39"	-04°18'22"	11°59'01"	0.003
24/12/2048 00:00:00	♁	22°22'47"	♈	-23°18'06"	-01°45'02"	01°12'16"	1.057
24/12/2048 00:00:00	♁	19°44'43"	♈	-16°36'49"	-01°48'59"	01°04'35"	0.754
24/12/2048 00:00:00	♁	08°06'56"	♈	-09°23'23"	-00°56'00"	00°44'36"	1.503
24/12/2048 00:00:00	♁	25°02'07"	♈	22°56'12"	-00°24'08"	-00°08'00"	4.132
24/12/2048 00:00:00	♁	16°33'39"	♈	-22°09'50"	00°14'38"	00°06'58"	10.978
24/12/2048 00:00:00	♁	15°57'17"	♈	06°15'44"	00°47'09"	-00°00'11"	17.980
24/12/2048 00:00:00	♁	21°27'08"	♈	16°23'59"	-01°46'52"	-00°01'10"	29.072
24/12/2048 00:00:00	♁	06°07'08"	♈	-20°48'08"	-12°27'31"	00°00'52"	41.619
24/12/2048 00:00:00	♁	18°31'02"	♈	-22°56'10"	00°00'00"	-00°02'20"	0.002
































Ephemerides year 2048

24/12/2048 00:00:00	♄	22°43'50"	♍	-16°26'45"	02°04'12"	00°06'57"	9.755
24/12/2048 00:00:00	♁	06°14'20"	♊	21°38'59"	-01°38'13"	00°06'39"	0.003
24/12/2048 00:00:00	♁	18°31'02"	♋	-22°56'10"	00°00'00"	-00°02'20"	0.002
24/12/2048 00:00:00	♁	17°02'40"	♊	19°50'28"	-02°31'28"	02°52'35"	0.003
24/12/2048 00:00:00	X	00°03'24"	♄	05°59'57"	-05°51'22"	-00°00'15"	92.589
24/12/2048 00:00:00	Y	16°58'34"	♋	11°38'25"	-11°12'14"	-00°00'38"	77.362
25/12/2048 00:00:00	♁	03°51'33"	♌	-23°22'34"	-00°00'00"	01°01'06"	0.984
25/12/2048 00:00:00	♁	25°13'25"	♍	08°32'22"	-04°50'46"	12°07'57"	0.003
25/12/2048 00:00:00	♁	23°33'12"	♌	-22°58'43"	-01°37'26"	01°08'27"	1.033
25/12/2048 00:00:00	♁	20°49'10"	♎	-16°12'54"	-01°45'25"	01°04'18"	0.747
25/12/2048 00:00:00	♁	08°51'33"	♋	-09°05'35"	-00°54'51"	00°44'36"	1.510
25/12/2048 00:00:00	♁	24°54'08"	♋	22°56'04"	-00°23'59"	-00°07'57"	4.135
25/12/2048 00:00:00	♁	16°40'38"	♌	-22°09'03"	00°14'33"	00°06'59"	10.981
25/12/2048 00:00:00	♁	15°57'04"	♋	06°15'52"	00°47'11"	-00°00'14"	17.963
25/12/2048 00:00:00	♁	21°25'59"	♄	16°23'44"	-01°46'49"	-00°01'08"	29.084
25/12/2048 00:00:00	♁	06°08'01"	♋	-20°47'35"	-12°27'17"	00°00'53"	41.635
25/12/2048 00:00:00	♁	18°28'41"	♋	-22°55'57"	00°00'00"	-00°02'17"	0.002
25/12/2048 00:00:00	♄	22°50'46"	♍	-16°28'06"	02°04'36"	00°06'53"	9.745
25/12/2048 00:00:00	♁	06°21'00"	♊	21°37'50"	-01°39'03"	00°06'39"	0.003

Ephemerides year 2048

25/12/2048 00:00:00	T♄	18°28'41" ♏	-22°55'57"	00°00'00"	-00°02'17"	0.002
25/12/2048 00:00:00	T♄	19°45'45" ♏	19°15'44"	-02°44'36"	02°31'30"	0.003
25/12/2048 00:00:00	X	00°03'09" ♏	05°59'57"	-05°51'16"	-00°00'15"	92.604
25/12/2048 00:00:00	Y	16°57'55" ♏	11°38'25"	-11°12'11"	-00°00'38"	77.367
26/12/2048 00:00:00	♁	04°52'40" ♏	-23°20'33"	-00°00'00"	01°01'07"	0.983
26/12/2048 00:00:00	♂	07°27'10" ♏	03°57'43"	-05°10'30"	12°20'06"	0.003
26/12/2048 00:00:00	♀	24°39'29" ♏	-22°38'33"	-01°28'49"	01°04'01"	1.008
26/12/2048 00:00:00	♀	21°53'20" ♏	-15°48'40"	-01°41'42"	01°04'00"	0.739
26/12/2048 00:00:00	♂	09°36'09" ♏	-08°47'44"	-00°53'41"	00°44'36"	1.517
26/12/2048 00:00:00	♃	24°46'12" ♏	22°55'54"	-00°23'50"	-00°07'54"	4.138
26/12/2048 00:00:00	♃	16°47'38" ♏	-22°08'15"	00°14'29"	00°07'00"	10.985
26/12/2048 00:00:00	♃	15°56'48" ♏	06°16'00"	00°47'14"	-00°00'17"	17.947
26/12/2048 00:00:00	♃	21°24'50" ♏	16°23'29"	-01°46'47"	-00°01'07"	29.096
26/12/2048 00:00:00	♃	06°08'56" ♏	-20°47'01"	-12°27'04"	00°00'55"	41.651
26/12/2048 00:00:00	♁	18°26'33" ♏	-22°55'46"	00°00'00"	-00°01'54"	0.002
26/12/2048 00:00:00	♃	22°57'38" ♏	-16°29'25"	02°05'00"	00°06'50"	9.735
26/12/2048 00:00:00	♁	06°27'39" ♏	21°36'41"	-01°39'54"	00°06'39"	0.003
26/12/2048 00:00:00	T♄	18°26'33" ♏	-22°55'46"	00°00'00"	-00°01'54"	0.002
26/12/2048 00:00:00	T♄	22°01'02" ♏	18°44'57"	-02°55'15"	01°56'32"	0.003

Ephemerides year 2048

26/12/2048 00:00:00	X	00°02'54" 	05°59'57"	-05°51'10"	-00°00'14"	92.619
26/12/2048 00:00:00	Y	16°57'17" 	11°38'25"	-11°12'08"	-00°00'38"	77.371
27/12/2048 00:00:00		05°53'48" 	-23°18'04"	-00°00'00"	01°01'07"	0.983
27/12/2048 00:00:00		19°54'49" 	-00°51'16"	-05°16'09"	12°35'47"	0.003
27/12/2048 00:00:00		25°41'01" 	-22°17'48"	-01°19'09"	00°58'54"	0.983
27/12/2048 00:00:00		22°57'11" 	-15°24'07"	-01°37'50"	01°03'42"	0.732
27/12/2048 00:00:00		10°20'45" 	-08°29'49"	-00°52'32"	00°44'36"	1.524
27/12/2048 00:00:00		24°38'19" 	22°55'45"	-00°23'40"	-00°07'51"	4.141
27/12/2048 00:00:00		16°54'39" 	-22°07'27"	00°14'24"	00°07'01"	10.988
27/12/2048 00:00:00		15°56'28" 	06°16'10"	00°47'16"	-00°00'21"	17.931
27/12/2048 00:00:00		21°23'44" 	16°23'14"	-01°46'44"	-00°01'05"	29.108
27/12/2048 00:00:00		06°09'52" 	-20°46'27"	-12°26'50"	00°00'56"	41.666
27/12/2048 00:00:00		18°24'58" 	-22°55'38"	00°00'00"	-00°01'12"	0.002
27/12/2048 00:00:00		23°04'27" 	-16°30'43"	02°05'25"	00°06'47"	9.725
27/12/2048 00:00:00		06°34'18" 	21°35'32"	-01°40'44"	00°06'39"	0.003
27/12/2048 00:00:00	TΩ	18°24'58" 	-22°55'38"	00°00'00"	-00°01'12"	0.002
27/12/2048 00:00:00	T♄	23°33'49" 	18°22'50"	-03°02'24"	01°06'36"	0.003
27/12/2048 00:00:00	X	00°02'40" 	05°59'58"	-05°51'05"	-00°00'13"	92.635
27/12/2048 00:00:00	Y	16°56'39" 	11°38'25"	-11°12'05"	-00°00'37"	77.376

Ephemerides year 2048

28/12/2048 00:00:00	♁	06°54'56" ♁	-23°15'06"	-00°00'00"	01°01'08"	0.983
28/12/2048 00:00:00	♃	02°39'58" ♃	-05°44'50"	-05°06'34"	12°55'05"	0.003
28/12/2048 00:00:00	♁	26°37'04" ♁	-21°56'38"	-01°08'23"	00°53'02"	0.958
28/12/2048 00:00:00	♁	24°00'44" ♁	-14°59'17"	-01°33'48"	01°03'23"	0.725
28/12/2048 00:00:00	♂	11°05'22" ♂	-08°11'50"	-00°51'24"	00°44'36"	1.531
28/12/2048 00:00:00	♃	24°30'29" ♃	22°55'35"	-00°23'31"	-00°07'47"	4.145
28/12/2048 00:00:00	♁	17°01'41" ♁	-22°06'39"	00°14'20"	00°07'02"	10.991
28/12/2048 00:00:00	♁	15°56'05" ♁	06°16'22"	00°47'19"	-00°00'24"	17.914
28/12/2048 00:00:00	♁	21°22'39" ♁	16°23'00"	-01°46'41"	-00°01'04"	29.120
28/12/2048 00:00:00	♂	06°10'49" ♂	-20°45'53"	-12°26'36"	00°00'57"	41.681
28/12/2048 00:00:00	♁	18°24'12" ♁	-22°55'34"	00°00'00"	-00°00'19"	0.002
28/12/2048 00:00:00	♁	23°11'12" ♁	-16°32'00"	02°05'50"	00°06'43"	9.715
28/12/2048 00:00:00	♁	06°40'57" ♁	21°34'22"	-01°41'34"	00°06'39"	0.003
28/12/2048 00:00:00	♁	18°24'12" ♁	-22°55'34"	00°00'00"	-00°00'19"	0.002
28/12/2048 00:00:00	♁	24°10'02" ♁	18°13'58"	-03°05'11"	00°04'12"	0.003
28/12/2048 00:00:00	X	00°02'26" ♂	05°59'59"	-05°50'59"	-00°00'13"	92.650
28/12/2048 00:00:00	Y	16°56'01" ♃	11°38'25"	-11°12'01"	-00°00'37"	77.382
29/12/2048 00:00:00	♁	07°56'05" ♁	-23°11'41"	-00°00'00"	01°01'09"	0.983
29/12/2048 00:00:00	♃	15°46'08" ♃	-10°31'24"	-04°41'03"	13°17'44"	0.003

Ephemerides year 2048

29/12/2048 00:00:00	♀	27°26'50" ♍	-21°35'17"	-00°56'30"	00°46'20"	0.932
29/12/2048 00:00:00	♀	25°03'58" ♍	-14°34'10"	-01°29'37"	01°03'03"	0.717
29/12/2048 00:00:00	♂	11°49'58" ♋	-07°53'48"	-00°50'15"	00°44'36"	1.538
29/12/2048 00:00:00	♃	24°22'44" ♉	22°55'26"	-00°23'21"	-00°07'43"	4.149
29/12/2048 00:00:00	♃	17°08'44" ♍	-22°05'50"	00°14'15"	00°07'03"	10.994
29/12/2048 00:00:00	♃	15°55'39" ♉	06°16'34"	00°47'21"	-00°00'27"	17.898
29/12/2048 00:00:00	♃	21°21'35" ♉	16°22'46"	-01°46'38"	-00°01'02"	29.133
29/12/2048 00:00:00	♃	06°11'48" ♋	-20°45'19"	-12°26'23"	00°00'59"	41.697
29/12/2048 00:00:00	♃	18°24'19" ♉	-22°55'35"	00°00'00"	00°00'33"	0.002
29/12/2048 00:00:00	♃	23°17'54" ♉	-16°33'16"	02°06'15"	00°06'39"	9.704
29/12/2048 00:00:00	♃	06°47'36" ♉	21°33'12"	-01°42'24"	00°06'39"	0.003
29/12/2048 00:00:00	T♃	18°24'19" ♉	-22°55'35"	00°00'00"	00°00'33"	0.002
29/12/2048 00:00:00	T♃	23°40'36" ♉	18°21'08"	-03°02'58"	-01°02'50"	0.003
29/12/2048 00:00:00	X	00°02'13" ♉	05°59'59"	-05°50'53"	-00°00'12"	92.666
29/12/2048 00:00:00	Y	16°55'24" ♉	11°38'25"	-11°11'57"	-00°00'37"	77.387
30/12/2048 00:00:00	♃	08°57'14" ♍	-23°07'48"	-00°00'00"	01°01'09"	0.983
30/12/2048 00:00:00	♃	29°16'18" ♉	-14°56'29"	-03°59'28"	13°42'55"	0.003
30/12/2048 00:00:00	♀	28°09'28" ♍	-21°14'01"	-00°43'27"	00°38'46"	0.906
30/12/2048 00:00:00	♀	26°06'51" ♍	-14°08'47"	-01°25'16"	01°02'43"	0.710



Ephemerides year 2048

30/12/2048 00:00:00	♂	12°34'34" ♃	-07°35'42"	-00°49'07"	00°44'36"	1.545
30/12/2048 00:00:00	♃	24°15'02" ♃	22°55'16"	-00°23'11"	-00°07'38"	4.153
30/12/2048 00:00:00	♃	17°15'47" ♃	-22°05'01"	00°14'11"	00°07'03"	10.996
30/12/2048 00:00:00	♃	15°55'09" ♃	06°16'48"	00°47'24"	-00°00'31"	17.882
30/12/2048 00:00:00	♃	21°20'33" ♃	16°22'33"	-01°46'35"	-00°01'01"	29.145
30/12/2048 00:00:00	♃	06°12'47" ♃	-20°44'44"	-12°26'10"	00°01'00"	41.712
30/12/2048 00:00:00	♃	18°25'14" ♃	-22°55'40"	00°00'00"	00°01'14"	0.002
30/12/2048 00:00:00	♃	23°24'32" ♃	-16°34'30"	02°06'40"	00°06'36"	9.694
30/12/2048 00:00:00	♃	06°54'15" ♃	21°32'01"	-01°43'14"	00°06'39"	0.003
30/12/2048 00:00:00	♃	18°25'14" ♃	-22°55'40"	00°00'00"	00°01'14"	0.002
30/12/2048 00:00:00	♃	22°07'19" ♃	18°43'25"	-02°55'47"	-02°00'53"	0.003
30/12/2048 00:00:00	X	00°02'01" ♃	06°00'01"	-05°50'47"	-00°00'12"	92.682
30/12/2048 00:00:00	Y	16°54'47" ♃	11°38'25"	-11°11'54"	-00°00'36"	77.393
31/12/2048 00:00:00	♃	09°58'24" ♃	-23°03'27"	-00°00'00"	01°01'10"	0.983
31/12/2048 00:00:00	♃	13°12'20" ♃	-18°41'58"	-03°02'42"	14°09'11"	0.002
31/12/2048 00:00:00	♃	28°44'05" ♃	-20°53'05"	-00°29'15"	00°30'17"	0.880
31/12/2048 00:00:00	♀	27°09'25" ♃	-13°43'09"	-01°20'46"	01°02'22"	0.702
31/12/2048 00:00:00	♂	13°19'11" ♃	-07°17'33"	-00°47'59"	00°44'36"	1.552
31/12/2048 00:00:00	♃	24°07'26" ♃	22°55'05"	-00°23'01"	-00°07'33"	4.157

Ephemerides year 2048

31/12/2048 00:00:00	♃	17°22'52" ♄	-22°04'11"	00°14'06"	00°07'04"	10.999
31/12/2048 00:00:00	♃	15°54'36" ♄	06°17'03"	00°47'27"	-00°00'34"	17.867
31/12/2048 00:00:00	♃	21°19'33" ♄	16°22'20"	-01°46'32"	-00°00'59"	29.158
31/12/2048 00:00:00	♃	06°13'48" ♄	-20°44'09"	-12°25'57"	00°01'01"	41.726
31/12/2048 00:00:00	♃	18°26'39" ♄	-22°55'47"	00°00'00"	00°01'30"	0.002
31/12/2048 00:00:00	♃	23°31'06" ♄	-16°35'42"	02°07'05"	00°06'32"	9.683
31/12/2048 00:00:00	♃	07°00'55" ♄	21°30'51"	-01°44'04"	00°06'39"	0.003
31/12/2048 00:00:00	T♃	18°26'39" ♄	-22°55'47"	00°00'00"	00°01'30"	0.002
31/12/2048 00:00:00	T♃	19°46'54" ♄	19°15'28"	-02°44'43"	-02°35'01"	0.003
31/12/2048 00:00:00	X	00°01'49" ♄	06°00'02"	-05°50'42"	-00°00'11"	92.698
31/12/2048 00:00:00	Y	16°54'10" ♄	11°38'26"	-11°11'50"	-00°00'36"	77.399