

Planetary Phenomena of Jupiter from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -2900 in astronomical counting style is the year 2901 BCE in historical counting style.

evening set	-2900 Jan 31 j 00:33	28° Z 12'06	retrograde	-2896 Nov 15 j 09:53	7° Q 26'00	
	-2900 Feb 07 j 13:57	0° \approx	opposition	-2895 Jan 14 j 08:41	2° Q 31'02	1°16'30
			min. Earth dist.	-2895 Jan 14 j 22:13	2° Q 26'37	4.39226 AU
conjunction	-2900 Feb 13 j 08:24	1° \approx 22'37 -1°14'13		-2895 Feb 03 j 13:51	30° R II	
minimum elong	-2900 Feb 13 j 08:22	1° \approx 22'36 1°14'18	direct	-2895 Mar 17 j 10:53	27° II 27'35	
max. Earth dist.	-2900 Feb 14 j 23:33	1° \approx 45'59 6.00116 AU		-2895 Apr 28 j 14:36	0° Q	
morning rise	-2900 Feb 26 j 19:28	4° \approx 34'48	evening set	-2895 Jul 23 j 00:04	15° Q 18'44	
	-2900 Apr 13 j 15:04	15° \approx	max. Earth dist.	-2895 Aug 03 j 19:19	17° Q 53'08	6.40492 AU
retrograde	-2900 Jul 07 j 20:01	24° \approx 54'57				
min. Earth dist.	-2900 Sep 04 j 10:15	20° \approx 00'06 4.02076 AU	conjunction	-2895 Aug 05 j 00:48	18° Q 09'15	1°06'55
opposition	-2900 Sep 05 j 15:39	19° \approx 50'07 -1°58'09	minimum elong	-2895 Aug 05 j 00:45	18° Q 09'14	1°07'00
	-2900 Oct 26 j 02:40	15° R \approx	morning rise	-2895 Aug 17 j 22:07	20° Q 58'09	
direct	-2900 Nov 02 j 15:48	14° \approx 54'05		-2895 Oct 01 j 03:25	0° Ω	
	-2900 Nov 10 j 04:35	15° \approx	retrograde	-2895 Dec 16 j 02:44	7° Ω 55'14	
	-2899 Feb 17 j 21:05	0° H	opposition	-2894 Feb 14 j 12:34	3° Ω 02'50	1°50'31
evening set	-2899 Mar 08 j 03:49	4° H 11'59	min. Earth dist.	-2894 Feb 15 j 13:55	2° Ω 54'41	4.40389 AU
				-2894 Mar 12 j 01:35	30° R Q	
conjunction	-2899 Mar 21 j 18:38	7° H 23'07 -1°15'53	direct	-2894 Apr 18 j 03:18	28° Q 00'41	
minimum elong	-2899 Mar 21 j 18:40	7° H 23'09 1°15'55		-2894 May 25 j 09:39	0° Ω	
max. Earth dist.	-2899 Mar 23 j 20:00	7° H 52'01 6.05432 AU		-2894 Aug 19 j 09:13	15° Ω	
morning rise	-2899 Apr 04 j 11:46	10° H 35'18	evening set	-2894 Aug 23 j 05:00	15° Ω 50'06	
	-2899 Jul 29 j 21:36	0° Y	max. Earth dist.	-2894 Sep 03 j 03:45	18° Ω 14'47	6.38541 AU
retrograde	-2899 Aug 12 j 07:36	0° Y 17'48				
	-2899 Aug 25 j 15:00	30° R H	conjunction	-2894 Sep 04 j 22:01	18° Ω 38'09	1°20'00
opposition	-2899 Oct 10 j 19:46	25° H 12'51 -1°37'39	minimum elong	-2894 Sep 04 j 22:01	18° Ω 38'08	1°20'03
min. Earth dist.	-2899 Oct 09 j 14:29	25° H 22'51 4.10262 AU	morning rise	-2894 Sep 17 j 12:28	21° Ω 25'01	
direct	-2899 Dec 08 j 08:15	20° H 13'34		-2894 Oct 28 j 19:56	0° H	
	-2898 Mar 02 j 08:32	0° Y	retrograde	-2893 Jan 16 j 16:40	8° H 36'37	
evening set	-2898 Apr 13 j 20:44	9° Y 10'22	opposition	-2893 Mar 18 j 10:55	3° H 45'08	1°54'10
			min. Earth dist.	-2893 Mar 19 j 19:17	3° H 34'50	4.35513 AU
conjunction	-2898 Apr 27 j 15:10	12° Y 18'35 -0°49'54		-2893 Apr 20 j 22:20	30° R Ω	
minimum elong	-2898 Apr 27 j 15:14	12° Y 18'37 0°49'52	direct	-2893 May 20 j 00:24	28° Ω 45'12	
max. Earth dist.	-2898 Apr 29 j 05:58	12° Y 40'43 6.15780 AU		-2893 Jun 18 j 01:55	0° H	
morning rise	-2898 May 11 j 10:13	15° Y 26'49	evening set	-2893 Sep 23 j 04:37	16° H 44'52	
	-2898 Jul 24 j 07:23	0° B	max. Earth dist.	-2893 Oct 03 j 22:24	19° H 09'43	6.31058 AU
retrograde	-2898 Sep 14 j 19:09	4° B 09'36				
	-2898 Nov 06 j 16:51	30° R Y	conjunction	-2893 Oct 05 j 18:02	19° H 34'19	1°10'34
min. Earth dist.	-2898 Nov 12 j 11:33	29° Y 13'16 4.21627 AU	minimum elong	-2893 Oct 05 j 18:04	19° H 34'20	1°10'35
opposition	-2898 Nov 13 j 05:56	29° Y 07'02 -0°44'18	morning rise	-2893 Oct 18 j 06:08	22° H 23'17	
direct	-2897 Jan 11 j 22:29	24° Y 05'01		-2893 Nov 22 j 16:50	0° Ω	
	-2897 Mar 17 j 09:26	0° B	retrograde	-2892 Feb 18 j 16:57	10° Ω 12'54	
evening set	-2897 May 19 j 04:28	12° B 33'56	opposition	-2892 Apr 19 j 18:06	5° Ω 20'27	1°24'39
	-2897 May 30 j 03:39	15° B	min. Earth dist.	-2892 Apr 20 j 22:08	5° Ω 11'31	4.25851 AU
			direct	-2892 Jun 20 j 12:16	0° Ω 23'20	
conjunction	-2897 Jun 01 j 21:15	15° B 36'31 -0°08'03	evening set	-2892 Oct 23 j 18:54	18° Ω 43'18	
minimum elong	-2897 Jun 01 j 21:16	15° B 36'32 0°07'59	max. Earth dist.	-2892 Nov 04 j 02:12	21° Ω 19'41	6.20067 AU
behind sun begin	-2897 Jun 01 j 13:53	15° B 32'27				
behind sun end	-2897 Jun 02 j 04:39	15° B 40'37	conjunction	-2892 Nov 05 j 09:13	21° Ω 37'37	0°39'41
max. Earth dist.	-2897 Jun 02 j 15:26	15° B 46'38 6.27347 AU	minimum elong	-2892 Nov 05 j 09:16	21° Ω 37'39	0°39'39
morning rise	-2897 Jun 15 j 12:16	18° B 38'05	morning rise	-2892 Nov 17 j 23:44	24° Ω 32'18	
	-2897 Aug 10 j 17:57	0° II		-2892 Dec 12 j 07:56	0° H	
asc. node	-2897 Aug 12 j 06:54	0° II 15'42	retrograde	-2891 Mar 24 j 17:47	13° H 16'43	
retrograde	-2897 Oct 16 j 13:28	6° II 24'08	opposition	-2891 May 24 j 17:42	8° H 21'44	0°26'43
opposition	-2897 Dec 15 j 04:49	1° II 25'25 0°20'18	min. Earth dist.	-2891 May 25 j 09:40	8° H 16'36	4.14199 AU
min. Earth dist.	-2897 Dec 15 j 01:16	1° II 26'36 4.32355 AU	direct	-2891 Jul 24 j 06:43	3° H 27'15	
	-2897 Dec 26 j 01:11	30° R B		-2891 Oct 24 j 19:46	15° H	
direct	-2896 Feb 14 j 04:03	26° B 22'01	desc. node	-2891 Oct 25 j 10:43	15° H 07'59	
	-2896 Apr 04 j 13:25	0° II	evening set	-2891 Nov 25 j 18:46	22° H 13'23	
evening set	-2896 Jun 20 j 20:12	14° II 27'00				
			conjunction	-2891 Dec 08 j 13:32	25° H 14'25	-0°05'19
conjunction	-2896 Jul 04 j 05:50	17° II 22'54 0°34'58	minimum elong	-2891 Dec 08 j 13:32	25° H 14'25	0°05'23
minimum elong	-2896 Jul 04 j 05:48	17° II 22'53 0°35'03	behind sun begin	-2891 Dec 08 j 05:44	25° H 09'50	
max. Earth dist.	-2896 Jul 03 j 20:38	17° II 17'52 6.36428 AU	behind sun end	-2891 Dec 08 j 21:19	25° H 19'00	
morning rise	-2896 Jul 17 j 12:41	20° II 17'18	max. Earth dist.	-2891 Dec 08 j 03:36	25° H 08'33	6.08844 AU
	-2896 Sep 03 j 08:29	0° Q	morning rise	-2891 Dec 21 j 10:22	28° H 16'42	

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Attention, astronomical year style is used: The year -2891 in astronomical counting style is the year 2892 BCE in historical counting style.

	-2891 Dec 28 j 19:05	0°♌			-2885 Jul 21 j 15:44	0°♊	
retrograde	-2890 Apr 30 j 10:13	17°♌58'30		retrograde	-2885 Oct 20 j 23:36	10°♊59'47	
opposition	-2890 Jun 30 j 03:41	12°♌59'45	-0°43'32	opposition	-2885 Dec 19 j 15:48	6°♊01'39	0°29'09
min. Earth dist.	-2890 Jun 29 j 23:37	13°♌01'05	4.04356 AU	min. Earth dist.	-2885 Dec 19 j 14:36	6°♊02'02	4.33580 AU
direct	-2890 Aug 28 j 06:31	8°♌06'38		direct	-2884 Feb 18 j 19:48	0°♊58'12	
evening set	-2890 Dec 30 j 15:28	27°♌17'23		evening set	-2884 Jun 25 j 11:39	19°♊00'30	
	-2889 Jan 10 j 23:48	0°♌					
conjunction	-2889 Jan 12 j 16:54	0°♌24'37	-0°49'46	conjunction	-2884 Jul 08 j 20:13	21°♊55'31	0°40'22
minimum elong	-2889 Jan 12 j 16:50	0°♌24'35	0°49'51	minimum elong	-2884 Jul 08 j 20:10	21°♊55'29	0°40'27
max. Earth dist.	-2889 Jan 13 j 11:24	0°♌35'41	6.01266 AU	max. Earth dist.	-2884 Jul 08 j 09:59	21°♊49'55	6.37468 AU
morning rise	-2889 Jan 25 j 21:18	3°♌33'33		morning rise	-2884 Jul 22 j 01:32	24°♊48'54	
retrograde	-2889 Jun 06 j 22:55	23°♌53'13		retrograde	-2884 Aug 15 j 12:13	0°♋	
min. Earth dist.	-2889 Aug 05 j 07:34	18°♌57'34	3.99941 AU	retrograde	-2884 Nov 19 j 16:39	11°♋53'46	
opposition	-2889 Aug 06 j 04:20	18°♌50'37	-1°39'50	opposition	-2883 Jan 18 j 18:09	6°♋59'15	1°22'49
direct	-2889 Oct 03 j 09:05	13°♌56'47		min. Earth dist.	-2883 Jan 19 j 08:19	6°♋54'39	4.40044 AU
	-2888 Jan 21 j 22:26	0°♍		direct	-2883 Mar 21 j 22:45	1°♋56'01	
evening set	-2888 Feb 05 j 03:39	3°♍20'02		evening set	-2883 Jul 27 j 10:43	19°♋44'56	
				max. Earth dist.	-2883 Aug 08 j 01:45	22°♋17'03	6.41020 AU
conjunction	-2888 Feb 18 j 12:33	6°♍30'55	-1°16'15	conjunction	-2883 Aug 09 j 09:58	22°♋34'40	1°09'59
minimum elong	-2888 Feb 18 j 12:31	6°♍30'54	1°16'20	minimum elong	-2883 Aug 09 j 09:55	22°♋34'39	1°10'04
max. Earth dist.	-2888 Feb 20 j 06:03	6°♍55'38	6.00303 AU	morning rise	-2883 Aug 22 j 06:10	25°♋22'52	
morning rise	-2888 Mar 03 j 00:39	9°♍43'26			-2883 Sep 12 j 23:03	0°♎	
	-2888 Mar 25 j 20:17	15°♍		retrograde	-2883 Dec 20 j 11:19	12°♎18'52	
retrograde	-2888 Jul 09 j 06:56	0°♎		opposition	-2882 Feb 18 j 22:25	7°♎26'41	1°52'51
	-2888 Jul 12 j 21:36	0°♎01'17		min. Earth dist.	-2882 Feb 20 j 01:43	7°♎17'56	4.40602 AU
	-2888 Jul 16 j 11:52	30°♎		direct	-2882 Apr 22 j 15:53	2°♎24'46	
min. Earth dist.	-2888 Sep 09 j 08:56	25°♎06'41	4.02697 AU		-2882 Aug 03 j 01:43	15°♎	
opposition	-2888 Sep 10 j 15:24	24°♎56'19	-1°57'53	evening set	-2882 Aug 27 j 12:08	20°♎12'54	
direct	-2888 Nov 07 j 15:05	19°♎59'53		max. Earth dist.	-2882 Sep 07 j 09:48	22°♎37'05	6.38412 AU
	-2887 Jan 30 j 10:08	0°♎					
evening set	-2887 Mar 13 j 07:54	9°♎16'34		conjunction	-2882 Sep 09 j 04:25	23°♎00'39	1°20'01
				minimum elong	-2882 Sep 09 j 04:25	23°♎00'39	1°20'03
conjunction	-2887 Mar 26 j 23:25	12°♎27'37	-1°13'43	morning rise	-2882 Sep 21 j 18:04	25°♎47'16	
minimum elong	-2887 Mar 26 j 23:27	12°♎27'39	1°13'45		-2882 Oct 11 j 06:10	0°♏	
max. Earth dist.	-2887 Mar 28 j 23:00	12°♎55'25	6.06409 AU	retrograde	-2881 Jan 21 j 00:57	13°♏00'41	
morning rise	-2887 Apr 09 j 17:14	15°♎39'37		opposition	-2881 Mar 22 j 22:21	8°♏09'07	1°51'55
	-2887 Jun 18 j 14:11	0°♏		min. Earth dist.	-2881 Mar 24 j 05:57	7°♏59'03	4.35045 AU
retrograde	-2887 Aug 17 j 03:04	5°♏15'43		direct	-2881 May 24 j 10:09	3°♏09'30	
min. Earth dist.	-2887 Oct 14 j 10:48	0°♏20'30	4.11472 AU	evening set	-2881 Sep 27 j 10:48	21°♏09'17	
opposition	-2887 Oct 15 j 14:46	0°♏10'56	-1°31'41	max. Earth dist.	-2881 Oct 08 j 05:28	23°♏34'56	6.30288 AU
	-2887 Oct 16 j 22:47	30°♏					
direct	-2887 Dec 13 j 06:32	25°♏11'14		conjunction	-2881 Oct 09 j 23:57	23°♏58'56	1°07'28
	-2886 Feb 07 j 16:48	0°♏		minimum elong	-2881 Oct 09 j 24:00	23°♏58'58	1°07'29
evening set	-2886 Apr 18 j 22:00	14°♏05'21		morning rise	-2881 Oct 22 j 11:59	26°♏48'13	
					-2881 Nov 05 j 21:31	0°♐	
conjunction	-2886 May 02 j 16:46	17°♏13'05	-0°44'36	retrograde	-2880 Feb 23 j 07:54	14°♐42'31	
minimum elong	-2886 May 02 j 16:49	17°♏13'07	0°44'34	opposition	-2880 Apr 24 j 09:08	9°♐49'50	1°18'09
max. Earth dist.	-2886 May 04 j 06:47	17°♏34'42	6.17151 AU	min. Earth dist.	-2880 Apr 25 j 13:30	9°♐40'48	4.24787 AU
morning rise	-2886 May 16 j 11:30	20°♏20'37		direct	-2880 Jun 25 j 01:43	4°♐53'01	
	-2886 Jun 30 j 23:15	0°♐		evening set	-2880 Oct 28 j 02:56	23°♐14'45	
retrograde	-2886 Sep 19 j 09:20	8°♐55'50		max. Earth dist.	-2880 Nov 08 j 11:07	25°♐52'04	6.18806 AU
opposition	-2886 Nov 17 j 20:10	3°♐53'50	-0°35'20				
min. Earth dist.	-2886 Nov 17 j 03:05	3°♐59'36	4.23031 AU	conjunction	-2880 Nov 09 j 17:36	26°♐09'45	0°34'11
	-2886 Dec 21 j 02:24	30°♐		minimum elong	-2880 Nov 09 j 17:38	26°♐09'46	0°34'09
direct	-2885 Jan 16 j 16:07	28°♐51'39		morning rise	-2880 Nov 22 j 08:50	29°♐05'15	
	-2885 Feb 12 j 14:55	0°♐			-2880 Nov 26 j 08:04	0°♑	
	-2885 May 13 j 13:54	15°♐		retrograde	-2879 Feb 13 j 01:03	15°♑	
evening set	-2885 May 24 j 01:23	17°♐17'35			-2879 Mar 29 j 12:13	17°♑56'38	
					-2879 May 13 j 16:44	15°♑	
conjunction	-2885 Jun 06 j 17:18	20°♐19'17	-0°01'42	opposition	-2879 May 29 j 12:44	13°♑01'10	0°17'31
minimum elong	-2885 Jun 06 j 17:19	20°♐19'17	0°01'38	min. Earth dist.	-2879 May 30 j 02:09	12°♑56'51	4.12823 AU
behind sun begin	-2885 Jun 06 j 09:00	20°♐14'42		direct	-2879 Jul 28 j 20:26	8°♑06'53	
behind sun end	-2885 Jun 07 j 01:38	20°♐23'53		desc. node	-2879 Sep 06 j 11:04	10°♑33'22	
max. Earth dist.	-2885 Jun 07 j 07:05	20°♐26'55	6.28696 AU		-2879 Oct 05 j 17:34	15°♑	
morning rise	-2885 Jun 20 j 07:33	23°♐19'56		evening set	-2879 Nov 30 j 07:58	26°♑56'27	
asc. node	-2885 Jun 21 j 12:21	23°♐35'46					

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Attention, astronomical year style is used: The year -2879 in astronomical counting style is the year 2880 BCE in historical counting style.

conjunction	-2879 Dec 13 j 03:36	29° \mathbb{M} 58'25	-0°11'39	max. Earth dist.	-2873 Jun 12 j 00:26	25° \mathcal{B} 06'00	6.30156 AU
minimum elong	-2879 Dec 13 j 03:34	29° \mathbb{M} 58'24	0°11'43	morning rise	-2873 Jun 25 j 01:37	27° \mathcal{B} 58'59	
behind sun begin	-2879 Dec 12 j 21:48	29° \mathbb{M} 55'00			-2873 Jul 04 j 07:30	0° \mathbb{I}	
behind sun end	-2879 Dec 13 j 09:20	0° \mathcal{A} 01'48		retrograde	-2873 Oct 25 j 08:47	15° \mathbb{I} 32'15	
max. Earth dist.	-2879 Dec 12 j 20:58	29° \mathbb{M} 54'30	6.07486 AU	opposition	-2873 Dec 24 j 02:07	10° \mathbb{I} 34'37	0°37'48
	-2879 Dec 13 j 06:18	0° \mathcal{A}		min. Earth dist.	-2873 Dec 24 j 02:45	10° \mathbb{I} 34'24	4.34873 AU
morning rise	-2879 Dec 26 j 01:16	3° \mathcal{A} 01'41		direct	-2872 Feb 23 j 10:23	5° \mathbb{I} 31'07	
retrograde	-2878 May 05 j 11:40	22° \mathcal{A} 50'46		evening set	-2872 Jun 30 j 01:49	23° \mathbb{I} 30'18	
opposition	-2878 Jul 05 j 02:24	17° \mathcal{A} 51'30	-0°52'30				
min. Earth dist.	-2878 Jul 04 j 21:26	17° \mathcal{A} 53'08	4.03136 AU	conjunction	-2872 Jul 13 j 08:57	26° \mathbb{I} 24'21	0°45'31
direct	-2878 Sep 02 j 02:16	12° \mathcal{A} 58'21		minimum elong	-2872 Jul 13 j 08:54	26° \mathbb{I} 24'19	0°45'36
	-2878 Dec 26 j 02:39	0° \mathcal{B}		max. Earth dist.	-2872 Jul 12 j 18:12	26° \mathbb{I} 16'18	6.38447 AU
evening set	-2877 Jan 04 j 11:30	2° \mathcal{B} 13'00		morning rise	-2872 Jul 26 j 13:03	29° \mathbb{I} 16'48	
					-2872 Jul 29 j 20:47	0° \mathcal{B}	
conjunction	-2877 Jan 17 j 13:59	5° \mathcal{B} 21'08	-0°54'41	retrograde	-2872 Nov 24 j 00:17	16° \mathcal{B} 18'18	
minimum elong	-2877 Jan 17 j 13:56	5° \mathcal{B} 21'06	0°54'46	opposition	-2871 Jan 23 j 03:00	11° \mathcal{B} 24'10	1°28'42
max. Earth dist.	-2877 Jan 18 j 11:11	5° \mathcal{B} 33'50	6.00301 AU	min. Earth dist.	-2871 Jan 23 j 19:43	11° \mathcal{B} 18'44	4.40645 AU
morning rise	-2877 Jan 30 j 19:39	8° \mathcal{B} 31'01		direct	-2871 Mar 26 j 11:00	6° \mathcal{B} 20'58	
retrograde	-2877 Jun 12 j 01:21	28° \mathcal{B} 54'54		evening set	-2871 Jul 31 j 20:20	24° \mathcal{B} 08'32	
min. Earth dist.	-2877 Aug 10 j 05:35	23° \mathcal{B} 59'36	3.99370 AU	max. Earth dist.	-2871 Aug 12 j 09:24	26° \mathcal{B} 39'36	6.41172 AU
opposition	-2877 Aug 11 j 04:28	23° \mathcal{B} 51'56	-1°44'50				
direct	-2877 Oct 08 j 05:49	18° \mathcal{B} 57'51		conjunction	-2871 Aug 13 j 18:33	26° \mathcal{B} 57'44	1°12'40
	-2876 Jan 04 j 07:25	0° \approx		minimum elong	-2871 Aug 13 j 18:31	26° \mathcal{B} 57'43	1°12'45
evening set	-2876 Feb 10 j 05:24	8° \approx 23'36		morning rise	-2871 Aug 26 j 13:27	29° \mathcal{B} 45'24	
					-2871 Aug 27 j 16:20	0° \mathcal{Q}	
conjunction	-2876 Feb 23 j 15:20	11° \approx 35'02	-1°17'38		-2871 Nov 21 j 12:16	15° \mathcal{Q}	
minimum elong	-2876 Feb 23 j 15:20	11° \approx 35'02	1°17'41	retrograde	-2871 Dec 24 j 18:38	16° \mathcal{Q} 41'50	
max. Earth dist.	-2876 Feb 25 j 09:39	12° \approx 00'14	6.00165 AU		-2870 Jan 27 j 06:31	15° \mathcal{R} \mathcal{Q}	
morning rise	-2876 Mar 08 j 04:36	14° \approx 48'05		opposition	-2870 Feb 23 j 08:21	11° \mathcal{Q} 49'52	1°54'40
	-2876 Mar 09 j 00:48	15° \approx		min. Earth dist.	-2870 Feb 24 j 12:13	11° \mathcal{Q} 40'57	4.40302 AU
	-2876 May 20 j 10:49	0° \mathcal{H}		direct	-2870 Apr 27 j 01:30	6° \mathcal{Q} 48'15	
retrograde	-2876 Jul 17 j 21:30	5° \mathcal{H} 04'50			-2870 Jul 15 j 20:13	15° \mathcal{Q}	
min. Earth dist.	-2876 Sep 14 j 07:08	0° \mathcal{H} 10'12	4.03010 AU	evening set	-2870 Aug 31 j 19:50	24° \mathcal{Q} 36'59	
opposition	-2876 Sep 15 j 13:58	29° \approx 59'40	-1°56'40	max. Earth dist.	-2870 Sep 11 j 14:58	27° \mathcal{Q} 00'09	6.37659 AU
	-2876 Sep 15 j 13:00	30° $\mathcal{R}\approx$					
direct	-2876 Nov 12 j 14:25	25° \approx 02'46		conjunction	-2870 Sep 13 j 11:16	27° \mathcal{Q} 24'43	1°19'37
	-2875 Jan 08 j 00:42	0° \mathcal{H}		minimum elong	-2870 Sep 13 j 11:16	27° \mathcal{Q} 24'43	1°19'40
evening set	-2875 Mar 18 j 11:33	14° \mathcal{H} 19'18			-2870 Sep 25 j 03:45	0° \mathcal{H}	
				morning rise	-2870 Sep 26 j 00:32	0° \mathcal{H} 11'27	
conjunction	-2875 Apr 01 j 04:06	17° \mathcal{H} 30'26	-1°10'57	retrograde	-2869 Jan 25 j 14:59	17° \mathcal{H} 29'07	
minimum elong	-2875 Apr 01 j 04:09	17° \mathcal{H} 30'28	1°10'58	opposition	-2869 Mar 27 j 12:20	12° \mathcal{H} 37'33	1°49'06
max. Earth dist.	-2875 Apr 03 j 05:13	17° \mathcal{H} 59'04	6.07171 AU	min. Earth dist.	-2869 Mar 28 j 21:08	12° \mathcal{H} 27'07	4.33871 AU
morning rise	-2875 Apr 14 j 22:22	20° \mathcal{H} 42'18		direct	-2869 May 28 j 23:26	7° \mathcal{H} 38'17	
	-2875 May 27 j 08:32	0° \mathcal{Y}		evening set	-2869 Oct 01 j 19:28	25° \mathcal{H} 40'37	
retrograde	-2875 Aug 21 j 23:07	10° \mathcal{Y} 12'18		max. Earth dist.	-2869 Oct 12 j 14:50	28° \mathcal{H} 07'10	6.28790 AU
min. Earth dist.	-2875 Oct 19 j 06:00	5° \mathcal{Y} 17'04	4.12584 AU				
opposition	-2875 Oct 20 j 09:17	5° \mathcal{Y} 07'45	-1°25'01	conjunction	-2869 Oct 14 j 08:41	28° \mathcal{H} 30'53	1°03'56
direct	-2875 Dec 18 j 03:33	0° \mathcal{Y} 07'40		minimum elong	-2869 Oct 14 j 08:43	28° \mathcal{H} 30'55	1°03'55
evening set	-2874 Apr 23 j 23:28	18° \mathcal{Y} 59'09			-2869 Oct 20 j 21:49	0° \mathcal{Q}	
				morning rise	-2869 Oct 26 j 20:52	1° \mathcal{Q} 20'52	
conjunction	-2874 May 07 j 18:09	22° \mathcal{Y} 06'19	-0°38'58	retrograde	-2868 Feb 28 j 02:14	19° \mathcal{Q} 22'37	
minimum elong	-2874 May 07 j 18:12	22° \mathcal{Y} 06'20	0°38'56	opposition	-2868 Apr 29 j 04:28	14° \mathcal{Q} 29'40	1°10'59
max. Earth dist.	-2874 May 09 j 05:10	22° \mathcal{Y} 26'09	6.18521 AU	min. Earth dist.	-2868 Apr 30 j 06:42	14° \mathcal{Q} 21'18	4.23062 AU
morning rise	-2874 May 21 j 12:49	25° \mathcal{Y} 13'10		direct	-2868 Jun 29 j 15:51	9° \mathcal{Q} 33'16	
	-2874 Jun 12 j 05:47	0° \mathcal{B}		evening set	-2868 Nov 01 j 16:08	27° \mathcal{Q} 59'10	
retrograde	-2874 Sep 23 j 22:02	13° \mathcal{B} 40'29			-2868 Nov 10 j 08:35	0° \mathbb{M}	
opposition	-2874 Nov 22 j 10:02	8° \mathcal{B} 38'52	-0°26'09	max. Earth dist.	-2868 Nov 13 j 03:36	0° \mathbb{M} 39'00	6.17010 AU
min. Earth dist.	-2874 Nov 21 j 18:19	8° \mathcal{B} 44'11	4.24505 AU				
direct	-2873 Jan 21 j 10:32	3° \mathcal{B} 36'21		conjunction	-2868 Nov 14 j 07:18	0° \mathbb{M} 55'08	0°28'13
	-2873 Apr 26 j 00:21	15° \mathcal{B}		minimum elong	-2868 Nov 14 j 07:20	0° \mathbb{M} 55'09	0°28'11
asc. node	-2873 Apr 30 j 11:40	15° \mathcal{B} 54'28		morning rise	-2868 Nov 26 j 23:16	3° \mathbb{M} 51'44	
evening set	-2873 May 28 j 21:19	21° \mathcal{B} 58'39			-2867 Jan 18 j 00:35	15° \mathbb{M}	
				retrograde	-2867 Apr 03 j 16:05	22° \mathbb{M} 52'12	
conjunction	-2873 Jun 11 j 12:34	24° \mathcal{B} 59'26	0°04'45	opposition	-2867 Jun 03 j 14:11	17° \mathbb{M} 56'18	0°07'40
minimum elong	-2873 Jun 11 j 12:33	24° \mathcal{B} 59'26	0°04'50	min. Earth dist.	-2867 Jun 04 j 02:08	17° \mathbb{M} 52'26	4.11086 AU
behind sun begin	-2873 Jun 11 j 04:30	24° \mathcal{B} 54'59			-2867 Jun 28 j 00:21	15° $\mathcal{R}\mathbb{M}$	
behind sun end	-2873 Jun 11 j 20:37	25° \mathcal{B} 03'53		desc. node	-2867 Jul 16 j 23:57	13° \mathbb{M} 29'22	

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Attention, astronomical year style is used: The year -2867 in astronomical counting style is the year 2868 BCE in historical counting style.

direct	-2867 Aug 02 j 17:39	13° \mathbb{M} 02'17	conjunction	-2861 Jun 16 j 03:44	29° \mathbb{B} 30'56	0°10'49
	-2867 Sep 06 j 23:02	15° \mathbb{M}	minimum elong	-2861 Jun 16 j 03:43	29° \mathbb{B} 30'55	0°10'53
	-2867 Nov 26 j 21:12	0° \mathbb{A}	behind sun begin	-2861 Jun 15 j 21:32	29° \mathbb{B} 27'32	
evening set	-2867 Dec 05 j 03:47	1° \mathbb{A} 56'29	behind sun end	-2861 Jun 16 j 09:54	29° \mathbb{B} 34'19	
			max. Earth dist.	-2861 Jun 16 j 11:00	29° \mathbb{B} 34'56	6.31805 AU
conjunction	-2867 Dec 18 j 00:21	4° \mathbb{A} 59'32 -0°18'17		-2861 Jun 18 j 08:24	0° \mathbb{I}	
minimum elong	-2867 Dec 18 j 00:19	4° \mathbb{A} 59'31 0°18'22	morning rise	-2861 Jun 29 j 15:42	2° \mathbb{I} 29'20	
max. Earth dist.	-2867 Dec 17 j 21:21	4° \mathbb{A} 57'45 6.05980 AU	retrograde	-2861 Oct 29 j 13:42	19° \mathbb{I} 55'59	
morning rise	-2867 Dec 30 j 23:11	8° \mathbb{A} 03'59	opposition	-2861 Dec 28 j 08:50	14° \mathbb{I} 58'50	0°45'53
retrograde	-2866 May 10 j 18:10	28° \mathbb{A} 00'34	min. Earth dist.	-2861 Dec 28 j 11:56	14° \mathbb{I} 57'49	4.36136 AU
opposition	-2866 Jul 10 j 07:51	23° \mathbb{A} 00'50 -1°01'37	direct	-2860 Feb 27 j 20:47	9° \mathbb{I} 55'12	
min. Earth dist.	-2866 Jul 09 j 23:27	23° \mathbb{A} 03'36 4.02052 AU	evening set	-2860 Jul 04 j 12:05	27° \mathbb{I} 51'41	
direct	-2866 Sep 07 j 02:34	18° \mathbb{A} 07'47		-2860 Jul 14 j 07:52	0° \mathbb{E}	
	-2866 Dec 08 j 07:33	0° \mathbb{B}				
evening set	-2865 Jan 09 j 14:20	7° \mathbb{B} 25'40	conjunction	-2860 Jul 17 j 18:02	0° \mathbb{E} 44'54	0°50'14
			minimum elong	-2860 Jul 17 j 17:59	0° \mathbb{E} 44'53	0°50'20
conjunction	-2865 Jan 22 j 17:47	10° \mathbb{B} 34'29 -0°59'30	max. Earth dist.	-2860 Jul 17 j 00:27	0° \mathbb{E} 35'17	6.39220 AU
minimum elong	-2865 Jan 22 j 17:44	10° \mathbb{B} 34'27 0°59'35	morning rise	-2860 Jul 30 j 20:43	3° \mathbb{E} 36'29	
max. Earth dist.	-2865 Jan 23 j 18:24	10° \mathbb{B} 49'15 5.99736 AU	retrograde	-2860 Nov 28 j 05:06	20° \mathbb{E} 35'41	
morning rise	-2865 Feb 05 j 00:35	13° \mathbb{B} 45'06	opposition	-2859 Jan 27 j 09:05	15° \mathbb{E} 41'58	1°33'55
	-2865 Apr 25 j 11:43	0° \mathbb{A}	min. Earth dist.	-2859 Jan 28 j 04:08	15° \mathbb{E} 35'48	4.40893 AU
retrograde	-2865 Jun 17 j 08:17	4° \mathbb{A} 11'07	direct	-2859 Mar 30 j 19:13	10° \mathbb{E} 38'54	
	-2865 Aug 09 j 21:47	30° \mathbb{R} \mathbb{B}	evening set	-2859 Aug 05 j 03:13	28° \mathbb{E} 26'17	
min. Earth dist.	-2865 Aug 15 j 08:46	29° \mathbb{B} 16'06 3.99431 AU		-2859 Aug 12 j 07:04	0° \mathbb{Q}	
opposition	-2865 Aug 16 j 09:45	29° \mathbb{B} 07'41 -1°49'17	max. Earth dist.	-2859 Aug 16 j 11:05	0° \mathbb{Q} 54'45	6.40843 AU
direct	-2865 Oct 13 j 10:18	24° \mathbb{B} 13'19				
	-2865 Dec 13 j 09:57	0° \mathbb{A}	conjunction	-2859 Aug 18 j 00:15	1° \mathbb{Q} 15'07	1°14'54
evening set	-2864 Feb 15 j 11:54	13° \mathbb{A} 38'53	minimum elong	-2859 Aug 18 j 00:13	1° \mathbb{Q} 15'06	1°14'58
	-2864 Feb 21 j 04:55	15° \mathbb{A}	morning rise	-2859 Aug 30 j 18:20	4° \mathbb{Q} 02'32	
				-2859 Oct 24 j 20:58	15° \mathbb{Q}	
conjunction	-2864 Feb 28 j 23:00	16° \mathbb{A} 50'29 -1°18'31	retrograde	-2859 Dec 29 j 03:16	21° \mathbb{Q} 01'12	
minimum elong	-2864 Feb 28 j 22:59	16° \mathbb{A} 50'28 1°18'35	opposition	-2858 Feb 27 j 17:14	16° \mathbb{Q} 09'23	1°55'51
max. Earth dist.	-2864 Mar 01 j 21:23	17° \mathbb{A} 18'01 6.00860 AU	min. Earth dist.	-2858 Feb 28 j 23:03	15° \mathbb{Q} 59'50	4.39438 AU
morning rise	-2864 Mar 13 j 12:59	20° \mathbb{A} 03'31		-2858 Mar 08 j 20:02	15° \mathbb{R} \mathbb{Q}	
	-2864 Apr 27 j 05:19	0° \mathbb{H}	direct	-2858 May 01 j 10:29	11° \mathbb{Q} 07'58	
retrograde	-2864 Jul 22 j 23:36	10° \mathbb{H} 15'01		-2858 Jun 23 j 04:47	15° \mathbb{Q}	
min. Earth dist.	-2864 Sep 19 j 07:31	5° \mathbb{H} 20'21 4.04277 AU	evening set	-2858 Sep 05 j 02:28	28° \mathbb{Q} 59'05	
opposition	-2864 Sep 20 j 14:31	5° \mathbb{H} 09'46 -1°54'34		-2858 Sep 09 j 16:40	0° \mathbb{P}	
direct	-2864 Nov 17 j 16:30	0° \mathbb{H} 12'26	max. Earth dist.	-2858 Sep 15 j 21:34	1° \mathbb{P} 22'40	6.36322 AU
evening set	-2863 Mar 23 j 16:33	19° \mathbb{H} 25'06				
			conjunction	-2858 Sep 17 j 17:33	1° \mathbb{P} 47'08	1°18'46
conjunction	-2863 Apr 06 j 09:29	22° \mathbb{H} 35'41 -1°07'42	minimum elong	-2858 Sep 17 j 17:34	1° \mathbb{P} 47'09	1°18'48
minimum elong	-2863 Apr 06 j 09:32	22° \mathbb{H} 35'43 1°07'42	morning rise	-2858 Sep 30 j 06:17	4° \mathbb{P} 34'14	
max. Earth dist.	-2863 Apr 08 j 09:06	23° \mathbb{H} 03'18 6.08875 AU	retrograde	-2857 Jan 30 j 03:54	21° \mathbb{P} 58'03	
morning rise	-2863 Apr 20 j 04:14	25° \mathbb{H} 46'55	opposition	-2857 Apr 01 j 02:29	17° \mathbb{P} 06'25	1°45'40
	-2863 May 08 j 19:48	0° \mathbb{Y}	min. Earth dist.	-2857 Apr 02 j 10:32	16° \mathbb{P} 56'14	4.32154 AU
retrograde	-2863 Aug 26 j 15:08	15° \mathbb{Y} 07'09	direct	-2857 Jun 02 j 09:51	12° \mathbb{P} 07'34	
min. Earth dist.	-2863 Oct 23 j 23:59	10° \mathbb{Y} 11'57 4.14535 AU		-2857 Oct 05 j 04:04	0° \mathbb{U}	
opposition	-2863 Oct 25 j 02:43	10° \mathbb{Y} 02'50 -1°17'52	evening set	-2857 Oct 06 j 05:17	0° \mathbb{U} 14'13	
direct	-2863 Dec 23 j 01:06	5° \mathbb{Y} 02'17	max. Earth dist.	-2857 Oct 17 j 01:18	2° \mathbb{U} 41'50	6.26836 AU
evening set	-2862 Apr 28 j 22:30	23° \mathbb{Y} 48'14				
			conjunction	-2857 Oct 18 j 18:28	3° \mathbb{U} 05'18	0°59'58
conjunction	-2862 May 12 j 17:01	26° \mathbb{Y} 54'25 -0°33'13	minimum elong	-2857 Oct 18 j 18:31	3° \mathbb{U} 05'19	0°59'57
minimum elong	-2862 May 12 j 17:04	26° \mathbb{Y} 54'27 0°33'11	morning rise	-2857 Oct 31 j 07:07	5° \mathbb{U} 56'15	
max. Earth dist.	-2862 May 14 j 01:30	27° \mathbb{Y} 12'45 6.20566 AU	retrograde	-2856 Mar 04 j 01:25	24° \mathbb{U} 07'02	
morning rise	-2862 May 26 j 11:02	0° \mathbb{B} 00'07	opposition	-2856 May 04 j 02:04	19° \mathbb{U} 13'45	1°03'15
	-2862 May 26 j 10:50	0° \mathbb{B}	min. Earth dist.	-2856 May 05 j 03:08	19° \mathbb{U} 05'44	4.20991 AU
	-2862 Aug 12 j 23:28	15° \mathbb{B}	direct	-2856 Jul 04 j 09:30	14° \mathbb{U} 17'44	
retrograde	-2862 Sep 28 j 09:08	18° \mathbb{B} 17'44		-2856 Oct 25 j 01:13	0° \mathbb{M}	
	-2862 Nov 13 j 19:17	15° \mathbb{R} \mathbb{B}	evening set	-2856 Nov 06 j 07:28	2° \mathbb{M} 48'45	
opposition	-2862 Nov 26 j 21:00	13° \mathbb{B} 16'38 -0°17'06				
min. Earth dist.	-2862 Nov 26 j 08:04	13° \mathbb{B} 20'59 4.26435 AU	conjunction	-2856 Nov 18 j 23:24	5° \mathbb{M} 45'52	0°21'57
direct	-2861 Jan 26 j 03:06	8° \mathbb{B} 13'52	minimum elong	-2856 Nov 18 j 23:26	5° \mathbb{M} 45'53	0°21'55
asc. node	-2861 Mar 10 j 21:29	11° \mathbb{B} 05'07	max. Earth dist.	-2856 Nov 17 j 23:26	5° \mathbb{M} 31'51	6.15030 AU
	-2861 Apr 06 j 05:59	15° \mathbb{B}	morning rise	-2856 Dec 01 j 16:12	8° \mathbb{M} 43'43	
evening set	-2861 Jun 02 j 13:29	26° \mathbb{B} 31'15		-2856 Dec 29 j 11:21	15° \mathbb{M}	
			retrograde	-2855 Apr 08 j 20:29	27° \mathbb{M} 53'36	

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Attention, astronomical year style is used: The year -2855 in astronomical counting style is the year 2856 BCE in historical counting style.

desc. node	-2855 May 26 j 00:12	24° \mathbb{M} 41'40	direct	-2849 Jan 30 j 17:01	12° \mathbb{S} 50'06	
opposition	-2855 Jun 08 j 18:10	22° \mathbb{M} 57'12	-0°02'26	-2849 Mar 09 j 16:08	15° \mathbb{S}	
min. Earth dist.	-2855 Jun 09 j 02:27	22° \mathbb{M} 54'32	4.09377 AU	-2849 Jun 02 j 08:10	0° \mathbb{II}	
direct	-2855 Aug 07 j 15:46	18° \mathbb{M} 03'32		-2849 Jun 07 j 05:29	1° \mathbb{II} 03'54	
	-2855 Nov 09 j 07:45	0° \mathbb{X}				
evening set	-2855 Dec 10 j 02:30	7° \mathbb{X} 02'01		conjunction	-2849 Jun 20 j 18:43	4° \mathbb{II} 02'38 0°16'50
				minimum elong	-2849 Jun 20 j 18:41	4° \mathbb{II} 02'37 0°16'55
conjunction	-2855 Dec 22 j 23:51	10° \mathbb{X} 06'00	-0°24'55	max. Earth dist.	-2849 Jun 20 j 21:42	4° \mathbb{II} 04'16 6.33149 AU
minimum elong	-2855 Dec 22 j 23:49	10° \mathbb{X} 05'59	0°24'59	morning rise	-2849 Jul 04 j 05:32	7° \mathbb{II} 00'00
max. Earth dist.	-2855 Dec 23 j 00:51	10° \mathbb{X} 06'36	6.04692 AU	retrograde	-2849 Nov 02 j 21:46	24° \mathbb{II} 21'27
morning rise	-2854 Jan 04 j 23:50	13° \mathbb{X} 11'30		opposition	-2848 Jan 01 j 16:38	19° \mathbb{II} 24'55 0°53'46
	-2854 Mar 30 j 17:18	0° \mathbb{S}		min. Earth dist.	-2848 Jan 01 j 22:56	19° \mathbb{II} 22'50 4.37099 AU
retrograde	-2854 May 16 j 02:26	3° \mathbb{S} 14'17		direct	-2848 Mar 03 j 08:50	14° \mathbb{II} 21'18
	-2854 Jul 01 j 22:49	30° \mathbb{R} \mathbb{X}			-2848 Jun 28 j 09:52	0° \mathbb{S}
opposition	-2854 Jul 15 j 14:46	28° \mathbb{X} 13'55	-1°10'22	evening set	-2848 Jul 08 j 23:10	2° \mathbb{S} 16'02
min. Earth dist.	-2854 Jul 15 j 03:14	28° \mathbb{X} 17'44	4.01322 AU	max. Earth dist.	-2848 Jul 21 j 06:27	4° \mathbb{S} 56'51 6.39712 AU
direct	-2854 Sep 12 j 06:42	23° \mathbb{X} 20'48				
	-2854 Nov 17 j 10:29	0° \mathbb{S}		conjunction	-2848 Jul 22 j 03:52	5° \mathbb{S} 08'32 0°54'44
evening set	-2853 Jan 14 j 18:44	12° \mathbb{S} 40'24		minimum elong	-2848 Jul 22 j 03:49	5° \mathbb{S} 08'31 0°54'49
				morning rise	-2848 Aug 04 j 05:18	7° \mathbb{S} 59'25
conjunction	-2853 Jan 27 j 23:21	15° \mathbb{S} 49'45	-1°03'52	retrograde	-2848 Dec 02 j 11:39	24° \mathbb{S} 57'26
minimum elong	-2853 Jan 27 j 23:18	15° \mathbb{S} 49'43	1°03'58	opposition	-2847 Jan 31 j 16:59	20° \mathbb{S} 04'04 1°38'44
max. Earth dist.	-2853 Jan 29 j 05:25	16° \mathbb{S} 07'45	5.99613 AU	min. Earth dist.	-2847 Feb 01 j 13:43	19° \mathbb{S} 57'21 4.40922 AU
morning rise	-2853 Feb 10 j 07:05	19° \mathbb{S} 00'50		direct	-2847 Apr 04 j 04:09	15° \mathbb{S} 01'09
	-2853 Mar 31 j 17:04	0° \mathbb{R}			-2847 Jul 27 j 09:28	0° \mathbb{Q}
retrograde	-2853 Jun 22 j 15:30	9° \mathbb{R} 26'31		evening set	-2847 Aug 09 j 11:39	2° \mathbb{Q} 48'57
opposition	-2853 Aug 21 j 14:45	4° \mathbb{R} 22'42	-1°52'49	max. Earth dist.	-2847 Aug 20 j 17:51	5° \mathbb{Q} 16'44 6.40401 AU
min. Earth dist.	-2853 Aug 20 j 12:31	4° \mathbb{R} 31'34	3.99941 AU			
	-2853 Sep 30 j 23:47	30° \mathbb{R} \mathbb{S}		conjunction	-2847 Aug 22 j 07:44	5° \mathbb{Q} 37'33 1°16'46
direct	-2853 Oct 18 j 14:26	29° \mathbb{S} 28'02		minimum elong	-2847 Aug 22 j 07:42	5° \mathbb{Q} 37'32 1°16'50
	-2853 Nov 05 j 05:17	0° \mathbb{R}		morning rise	-2847 Sep 04 j 00:43	8° \mathbb{Q} 24'44
	-2852 Feb 04 j 03:21	15° \mathbb{R}			-2847 Oct 05 j 07:48	15° \mathbb{Q}
evening set	-2852 Feb 20 j 18:13	18° \mathbb{R} 51'52		retrograde	-2846 Jan 02 j 13:13	25° \mathbb{Q} 26'01
				opposition	-2846 Mar 04 j 04:12	20° \mathbb{Q} 34'23 1°56'25
conjunction	-2852 Mar 05 j 06:04	22° \mathbb{R} 03'21	-1°18'47	min. Earth dist.	-2846 Mar 05 j 10:54	20° \mathbb{Q} 24'36 4.38568 AU
minimum elong	-2852 Mar 05 j 06:04	22° \mathbb{R} 03'21	1°18'51	direct	-2846 May 05 j 20:35	15° \mathbb{Q} 33'21
max. Earth dist.	-2852 Mar 07 j 04:51	22° \mathbb{R} 31'02	6.01901 AU		-2846 Aug 24 j 15:24	0° \mathbb{Q}
morning rise	-2852 Mar 18 j 21:02	25° \mathbb{R} 16'16		evening set	-2846 Sep 09 j 10:48	3° \mathbb{Q} 26'39
	-2852 Apr 08 j 09:42	0° \mathbb{X}		max. Earth dist.	-2846 Sep 20 j 03:46	5° \mathbb{Q} 49'34 6.35084 AU
retrograde	-2852 Jul 27 j 21:59	15° \mathbb{X} 21'11				
min. Earth dist.	-2852 Sep 24 j 05:50	10° \mathbb{X} 26'44	4.05735 AU	conjunction	-2846 Sep 22 j 01:16	6° \mathbb{Q} 14'58 1°17'27
opposition	-2852 Sep 25 j 13:30	10° \mathbb{X} 15'55	-1°51'37	minimum elong	-2846 Sep 22 j 01:17	6° \mathbb{Q} 14'59 1°17'29
direct	-2852 Nov 22 j 17:02	5° \mathbb{X} 18'09		morning rise	-2846 Oct 04 j 13:53	9° \mathbb{Q} 02'29
evening set	-2851 Mar 28 j 20:08	24° \mathbb{X} 26'41		retrograde	-2845 Feb 03 j 20:50	26° \mathbb{Q} 32'18
				opposition	-2845 Apr 05 j 19:00	21° \mathbb{Q} 40'32 1°41'32
conjunction	-2851 Apr 11 j 13:38	27° \mathbb{X} 36'42	-1°04'00	min. Earth dist.	-2845 Apr 07 j 02:36	21° \mathbb{Q} 30'28 4.30633 AU
minimum elong	-2851 Apr 11 j 13:41	27° \mathbb{X} 36'44	1°04'00	direct	-2845 Jun 06 j 23:38	16° \mathbb{Q} 42'04
max. Earth dist.	-2851 Apr 13 j 12:01	28° \mathbb{X} 03'30	6.10631 AU		-2845 Sep 18 j 16:20	0° \mathbb{Q}
	-2851 Apr 21 j 22:08	0° \mathbb{Y}		evening set	-2845 Oct 10 j 16:01	4° \mathbb{Q} 52'06
morning rise	-2851 Apr 25 j 08:27	0° \mathbb{Y} 47'11		max. Earth dist.	-2845 Oct 21 j 15:28	7° \mathbb{Q} 22'10 6.25190 AU
retrograde	-2851 Aug 31 j 08:32	19° \mathbb{Y} 58'00				
opposition	-2851 Oct 29 j 18:48	14° \mathbb{Y} 54'07	-1°10'16	conjunction	-2845 Oct 23 j 05:31	7° \mathbb{Q} 43'56 0°55'36
min. Earth dist.	-2851 Oct 28 j 18:35	15° \mathbb{Y} 02'21	4.16390 AU	minimum elong	-2845 Oct 23 j 05:34	7° \mathbb{Q} 43'58 0°55'35
direct	-2851 Dec 27 j 22:23	9° \mathbb{Y} 53'13		morning rise	-2845 Nov 04 j 18:22	10° \mathbb{Q} 35'43
evening set	-2850 May 03 j 20:38	28° \mathbb{Y} 34'27		retrograde	-2844 Mar 08 j 23:19	28° \mathbb{Q} 54'24
	-2850 May 10 j 05:21	0° \mathbb{S}		opposition	-2844 May 09 j 00:29	24° \mathbb{Q} 00'46 0°55'02
				min. Earth dist.	-2844 May 09 j 23:03	23° \mathbb{Q} 53'33 4.19351 AU
conjunction	-2850 May 17 j 14:53	1° \mathbb{S} 39'45	-0°27'19	direct	-2844 Jul 09 j 02:59	19° \mathbb{Q} 05'13
minimum elong	-2850 May 17 j 14:55	1° \mathbb{S} 39'46	0°27'15		-2844 Oct 07 j 13:23	0° \mathbb{M}
max. Earth dist.	-2850 May 18 j 20:11	1° \mathbb{S} 56'13	6.22385 AU	evening set	-2844 Nov 10 j 23:18	7° \mathbb{M} 39'44
morning rise	-2850 May 31 j 08:21	4° \mathbb{S} 44'26				
	-2850 Jul 19 j 16:44	15° \mathbb{S}		conjunction	-2844 Nov 23 j 15:40	10° \mathbb{M} 37'43 0°15'35
retrograde	-2850 Oct 02 j 17:58	22° \mathbb{S} 53'35		minimum elong	-2844 Nov 23 j 15:41	10° \mathbb{M} 37'43 0°15'31
opposition	-2850 Dec 01 j 07:23	17° \mathbb{S} 53'04	-0°08'00	behind sun begin	-2844 Nov 23 j 13:10	10° \mathbb{M} 36'15
min. Earth dist.	-2850 Nov 30 j 20:05	17° \mathbb{S} 56'51	4.28073 AU	behind sun end	-2844 Nov 23 j 18:12	10° \mathbb{M} 39'11
	-2850 Dec 24 j 06:33	15° \mathbb{R} \mathbb{S}		max. Earth dist.	-2844 Nov 22 j 18:25	10° \mathbb{M} 25'15 6.13550 AU
asc. node	-2849 Jan 19 j 00:27	13° \mathbb{S} 03'21		morning rise	-2844 Dec 06 j 09:24	13° \mathbb{M} 36'35

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Attention, astronomical year style is used: The year -2844 in astronomical counting style is the year 2845 BCE in historical counting style.

	-2844 Dec 12 j 09:15	15°♄	min. Earth dist.	-2838 Dec 05 j 08:28	22°♄27'07	4.29298 AU
	-2843 Feb 28 j 23:24	0°♄	direct	-2837 Feb 04 j 06:58	17°♄21'20	
desc. node	-2843 Apr 04 j 22:15	2°♄46'08		-2837 May 16 j 18:15	0°♄	
retrograde	-2843 Apr 13 j 23:47	2°♄53'59	evening set	-2837 Jun 11 j 19:59	5°♄32'48	
	-2843 May 28 j 13:50	30°♄				
opposition	-2843 Jun 13 j 21:09	27°♄56'59 -0°12'26	conjunction	-2837 Jun 25 j 08:22	8°♄30'47	0°22'40
min. Earth dist.	-2843 Jun 14 j 02:16	27°♄55'19 4.08184 AU	minimum elong	-2837 Jun 25 j 08:20	8°♄30'45	0°22'45
direct	-2843 Aug 12 j 14:58	23°♄03'27	max. Earth dist.	-2837 Jun 25 j 08:36	8°♄30'54	6.34073 AU
	-2843 Oct 20 j 05:28	0°♄	morning rise	-2837 Jul 08 j 17:57	11°♄27'17	
evening set	-2843 Dec 14 j 23:41	12°♄04'26	retrograde	-2837 Nov 07 j 03:04	28°♄44'58	
			opposition	-2836 Jan 05 j 23:55	23°♄48'55	1°01'15
conjunction	-2843 Dec 27 j 22:04	15°♄09'10 -0°31'14	min. Earth dist.	-2836 Jan 06 j 07:30	23°♄46'26	4.37693 AU
minimum elong	-2843 Dec 27 j 22:01	15°♄09'08 0°31'18	direct	-2836 Mar 07 j 17:58	18°♄45'22	
max. Earth dist.	-2843 Dec 28 j 04:37	15°♄13'04 6.03900 AU		-2836 Jun 11 j 13:14	0°♄	
morning rise	-2842 Jan 09 j 22:55	18°♄15'25	evening set	-2836 Jul 13 j 09:59	6°♄39'24	
	-2842 Mar 04 j 13:36	0°♄				
retrograde	-2842 May 21 j 08:47	8°♄22'13	conjunction	-2836 Jul 26 j 13:24	9°♄31'17	0°58'52
opposition	-2842 Jul 20 j 18:56	3°♄21'18 -1°18'20	minimum elong	-2836 Jul 26 j 13:20	9°♄31'16	0°58'56
min. Earth dist.	-2842 Jul 20 j 05:18	3°♄25'50 4.01036 AU	max. Earth dist.	-2836 Jul 25 j 13:15	9°♄18'06	6.39935 AU
	-2842 Aug 17 j 18:11	30°♄	morning rise	-2836 Aug 08 j 13:37	12°♄21'34	
direct	-2842 Sep 17 j 08:07	28°♄28'04	retrograde	-2836 Dec 06 j 19:56	29°♄19'12	
	-2842 Oct 17 j 16:24	0°♄	opposition	-2835 Feb 05 j 01:37	24°♄26'14	1°42'57
evening set	-2841 Jan 19 j 20:22	17°♄47'55	min. Earth dist.	-2835 Feb 06 j 00:28	24°♄18'51	4.40782 AU
			direct	-2835 Apr 08 j 14:44	19°♄23'34	
conjunction	-2841 Feb 02 j 01:44	20°♄57'31 -1°07'37		-2835 Jul 10 j 08:44	0°♄	
minimum elong	-2841 Feb 02 j 01:41	20°♄57'29 1°07'41	evening set	-2835 Aug 13 j 20:03	7°♄11'54	
max. Earth dist.	-2841 Feb 03 j 09:36	21°♄16'35 5.99814 AU	max. Earth dist.	-2835 Aug 24 j 23:19	9°♄38'23	6.39890 AU
morning rise	-2841 Feb 15 j 10:36	24°♄08'55				
	-2841 Mar 12 j 17:05	0°♄	conjunction	-2835 Aug 26 j 15:10	10°♄00'18	1°18'10
retrograde	-2841 Jun 27 j 15:51	14°♄32'57	minimum elong	-2835 Aug 26 j 15:08	10°♄00'17	1°18'15
min. Earth dist.	-2841 Aug 25 j 11:20	9°♄38'17 4.00631 AU	morning rise	-2835 Sep 08 j 07:22	12°♄47'21	
opposition	-2841 Aug 26 j 15:34	9°♄28'44 -1°55'19		-2835 Sep 18 j 11:54	15°♄	
direct	-2841 Oct 23 j 14:23	4°♄33'38	retrograde	-2834 Jan 06 j 23:53	29°♄51'27	
	-2840 Jan 17 j 02:30	15°♄	opposition	-2834 Mar 08 j 16:02	24°♄59'52	1°56'17
evening set	-2840 Feb 25 j 20:48	23°♄55'21	min. Earth dist.	-2834 Mar 09 j 22:36	24°♄50'06	4.37737 AU
			direct	-2834 May 10 j 07:04	19°♄59'09	
conjunction	-2840 Mar 10 j 09:37	27°♄06'42 -1°18'26		-2834 Aug 07 j 08:08	0°♄	
minimum elong	-2840 Mar 10 j 09:38	27°♄06'43 1°18'29	evening set	-2834 Sep 13 j 19:03	7°♄54'07	
max. Earth dist.	-2840 Mar 12 j 09:30	27°♄34'57 6.03001 AU	max. Earth dist.	-2834 Sep 24 j 13:33	10°♄18'16	6.33998 AU
	-2840 Mar 22 j 16:04	0°♄				
morning rise	-2840 Mar 24 j 01:09	0°♄19'22	conjunction	-2834 Sep 26 j 09:10	10°♄42'42	1°15'40
retrograde	-2840 Aug 01 j 18:48	20°♄17'36	minimum elong	-2834 Sep 26 j 09:12	10°♄42'43	1°15'41
min. Earth dist.	-2840 Sep 29 j 02:29	15°♄22'37 4.07112 AU	morning rise	-2834 Oct 08 j 21:23	13°♄30'32	
opposition	-2840 Sep 30 j 08:31	15°♄12'22 -1°47'57		-2833 Jan 12 j 18:41	0°♄	
direct	-2840 Nov 27 j 15:50	10°♄14'06	retrograde	-2833 Feb 08 j 12:14	1°♄05'41	
evening set	-2839 Apr 02 j 20:06	29°♄18'58		-2833 Mar 07 j 07:40	30°♄	
	-2839 Apr 05 j 19:43	0°♄	opposition	-2833 Apr 10 j 11:21	26°♄13'47	1°36'45
			min. Earth dist.	-2833 Apr 11 j 18:21	26°♄03'55	4.29336 AU
conjunction	-2839 Apr 16 j 14:03	2°♄28'31 -0°59'58	direct	-2833 Jun 11 j 13:22	21°♄15'46	
minimum elong	-2839 Apr 16 j 14:07	2°♄28'33 0°59'58		-2833 Aug 31 j 14:33	0°♄	
max. Earth dist.	-2839 Apr 18 j 10:59	2°♄54'21 6.12168 AU	evening set	-2833 Oct 15 j 02:27	9°♄28'17	
morning rise	-2839 Apr 30 j 09:03	5°♄38'23	max. Earth dist.	-2833 Oct 26 j 02:31	11°♄59'16	6.23778 AU
retrograde	-2839 Sep 04 j 20:53	24°♄40'46				
min. Earth dist.	-2839 Nov 02 j 08:32	19°♄45'10 4.17935 AU	conjunction	-2833 Oct 27 j 15:58	12°♄20'45	0°50'53
opposition	-2839 Nov 03 j 07:47	19°♄37'16 -1°02'29	minimum elong	-2833 Oct 27 j 16:01	12°♄20'46	0°50'52
direct	-2838 Jan 01 j 14:04	14°♄36'02	morning rise	-2833 Nov 09 j 05:24	15°♄13'21	
	-2838 Apr 24 j 00:02	0°♄		-2832 Jan 23 j 22:52	0°♄	
evening set	-2838 May 08 j 15:57	3°♄13'44	retrograde	-2832 Mar 13 j 20:31	3°♄39'13	
				-2832 May 04 j 01:33	30°♄	
conjunction	-2838 May 22 j 09:46	6°♄18'15 -0°21'23	opposition	-2832 May 13 j 21:57	28°♄45'10	0°46'28
minimum elong	-2838 May 22 j 09:48	6°♄18'16 0°21'20	min. Earth dist.	-2832 May 14 j 18:13	28°♄38'41	4.17887 AU
max. Earth dist.	-2838 May 23 j 10:27	6°♄32'05 6.23831 AU	direct	-2832 Jul 13 j 20:29	23°♄49'56	
morning rise	-2838 Jun 05 j 02:43	9°♄22'05		-2832 Sep 17 j 06:54	0°♄	
	-2838 Jul 01 j 02:57	15°♄	evening set	-2832 Nov 15 j 13:49	12°♄27'33	
retrograde	-2838 Oct 07 j 03:45	27°♄24'24		-2832 Nov 26 j 10:02	15°♄	
asc. node	-2838 Nov 30 j 01:35	23°♄09'26				
opposition	-2838 Dec 05 j 16:25	22°♄24'27 0°00'55	conjunction	-2832 Nov 28 j 07:01	15°♄26'26	0°09'09

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Attention, astronomical year style is used: The year -2832 in astronomical counting style is the year 2833 BCE in historical counting style.

minimum elong	-2832 Nov 28 j 07:01	15° \mathbb{M} 26'27	0°09'05	max. Earth dist.	-2826 May 28 j 06:24	11° \mathbb{B} 16'22	6.25191 AU
behind sun begin	-2832 Nov 28 j 00:09	15° \mathbb{M} 22'26		morning rise	-2826 Jun 09 j 23:27	14° \mathbb{B} 06'25	
behind sun end	-2832 Nov 28 j 13:52	15° \mathbb{M} 30'27			-2826 Jun 14 j 00:22	15° \mathbb{B}	
max. Earth dist.	-2832 Nov 27 j 14:16	15° \mathbb{M} 16'37	6.12174 AU		-2826 Sep 05 j 13:36	0° \mathbb{II}	
morning rise	-2832 Dec 11 j 01:27	18° \mathbb{M} 26'15		asc. node	-2826 Oct 09 j 13:49	2° \mathbb{II} 01'37	
	-2831 Feb 02 j 17:56	0° \mathbb{A}		retrograde	-2826 Oct 11 j 13:33	2° \mathbb{II} 02'00	
desc. node	-2831 Feb 13 j 07:28	1° \mathbb{A} 52'29			-2826 Nov 16 j 09:56	30° \mathbb{R} \mathbb{B}	
retrograde	-2831 Apr 19 j 03:12	7° \mathbb{A} 50'58		opposition	-2826 Dec 10 j 03:40	27° \mathbb{B} 02'37	0°10'04
opposition	-2831 Jun 18 j 22:46	2° \mathbb{A} 53'31	-0°22'18	min. Earth dist.	-2826 Dec 09 j 20:45	27° \mathbb{B} 04'56	4.30558 AU
min. Earth dist.	-2831 Jun 19 j 01:57	2° \mathbb{A} 52'29	4.07006 AU	direct	-2825 Feb 08 j 21:14	21° \mathbb{B} 59'26	
	-2831 Jul 12 j 17:58	30° \mathbb{R} \mathbb{M}			-2825 Apr 27 j 15:45	0° \mathbb{II}	
direct	-2831 Aug 17 j 12:40	28° \mathbb{M} 00'10		evening set	-2825 Jun 16 j 12:52	10° \mathbb{II} 08'17	
	-2831 Sep 21 j 18:54	0° \mathbb{A}					
evening set	-2831 Dec 19 j 20:18	17° \mathbb{A} 04'04		conjunction	-2825 Jun 29 j 23:59	13° \mathbb{II} 05'19	0°28'30
				minimum elong	-2825 Jun 29 j 23:57	13° \mathbb{II} 05'18	0°28'36
conjunction	-2830 Jan 01 j 19:24	20° \mathbb{A} 09'33	-0°37'17	max. Earth dist.	-2825 Jun 29 j 20:06	13° \mathbb{II} 03'12	6.35159 AU
minimum elong	-2830 Jan 01 j 19:22	20° \mathbb{A} 09'31	0°37'22	morning rise	-2825 Jul 13 j 08:29	16° \mathbb{II} 00'54	
max. Earth dist.	-2830 Jan 02 j 04:03	20° \mathbb{A} 14'43	6.03011 AU		-2825 Sep 26 j 04:59	0° \mathbb{B}	
morning rise	-2830 Jan 14 j 21:30	23° \mathbb{A} 16'41		retrograde	-2825 Nov 11 j 12:16	3° \mathbb{B} 14'14	
	-2830 Feb 13 j 02:56	0° \mathbb{B}			-2825 Dec 28 j 05:32	30° \mathbb{R} \mathbb{II}	
retrograde	-2830 May 26 j 11:57	13° \mathbb{B} 28'04		opposition	-2824 Jan 10 j 09:40	28° \mathbb{II} 18'40	1°08'32
opposition	-2830 Jul 25 j 21:37	8° \mathbb{B} 26'37	-1°25'42	min. Earth dist.	-2824 Jan 10 j 19:49	28° \mathbb{II} 15'21	4.38567 AU
min. Earth dist.	-2830 Jul 25 j 04:56	8° \mathbb{B} 32'10	4.00546 AU	direct	-2824 Mar 12 j 08:08	23° \mathbb{II} 15'12	
direct	-2830 Sep 22 j 06:54	3° \mathbb{B} 33'14			-2824 May 22 j 18:52	0° \mathbb{B}	
evening set	-2829 Jan 24 j 22:00	22° \mathbb{B} 54'41		evening set	-2824 Jul 17 j 21:54	11° \mathbb{B} 07'05	
				max. Earth dist.	-2824 Jul 29 j 22:51	13° \mathbb{B} 44'25	6.40538 AU
conjunction	-2829 Feb 07 j 04:33	26° \mathbb{B} 04'47	-1°10'51				
minimum elong	-2829 Feb 07 j 04:30	26° \mathbb{B} 04'46	1°10'55	conjunction	-2824 Jul 31 j 00:08	13° \mathbb{B} 58'14	1°02'45
max. Earth dist.	-2829 Feb 08 j 15:51	26° \mathbb{B} 25'54	5.99760 AU	minimum elong	-2824 Jul 31 j 00:05	13° \mathbb{B} 58'12	1°02'49
morning rise	-2829 Feb 20 j 14:18	29° \mathbb{B} 16'36		morning rise	-2824 Aug 12 j 22:56	16° \mathbb{B} 47'43	
	-2829 Feb 23 j 15:39	0° \mathbb{B}			-2824 Oct 21 j 22:35	0° \mathbb{B}	
	-2829 May 07 j 19:52	15° \mathbb{B}		retrograde	-2824 Dec 11 j 02:29	3° \mathbb{B} 43'39	
retrograde	-2829 Jul 02 j 19:07	19° \mathbb{B} 40'02			-2823 Jan 31 j 10:28	30° \mathbb{R} \mathbb{B}	
	-2829 Aug 28 j 16:05	15° \mathbb{R} \mathbb{B}		opposition	-2823 Feb 09 j 11:09	28° \mathbb{B} 50'54	1°46'36
opposition	-2829 Aug 31 j 16:17	14° \mathbb{B} 35'32	-1°57'01	min. Earth dist.	-2823 Feb 10 j 10:07	28° \mathbb{B} 43'30	4.41114 AU
min. Earth dist.	-2829 Aug 30 j 12:10	14° \mathbb{B} 45'04	4.01019 AU	direct	-2823 Apr 13 j 01:10	23° \mathbb{B} 48'28	
direct	-2829 Oct 28 j 15:47	9° \mathbb{B} 40'03			-2823 Jun 20 j 10:18	0° \mathbb{B}	
	-2829 Dec 26 j 03:34	15° \mathbb{B}		evening set	-2823 Aug 18 j 04:29	11° \mathbb{B} 35'27	
evening set	-2828 Mar 02 j 00:25	29° \mathbb{B} 01'02		max. Earth dist.	-2823 Aug 29 j 06:09	14° \mathbb{B} 01'10	6.39922 AU
	-2828 Mar 06 j 05:00	0° \mathbb{H}					
conjunction	-2828 Mar 15 j 14:11	2° \mathbb{H} 12'28	-1°17'30	conjunction	-2823 Aug 30 j 22:30	14° \mathbb{B} 23'23	1°19'09
minimum elong	-2828 Mar 15 j 14:13	2° \mathbb{H} 12'29	1°17'32	minimum elong	-2823 Aug 30 j 22:29	14° \mathbb{B} 23'23	1°19'12
max. Earth dist.	-2828 Mar 17 j 14:55	2° \mathbb{H} 41'07	6.03780 AU	morning rise	-2823 Sep 02 j 16:59	15° \mathbb{B}	
morning rise	-2828 Mar 29 j 06:34	5° \mathbb{H} 25'06			-2823 Sep 12 j 13:47	17° \mathbb{B} 10'03	
retrograde	-2828 Aug 06 j 15:46	25° \mathbb{H} 17'44		retrograde	-2823 Nov 18 j 07:02	0° \mathbb{H}	
min. Earth dist.	-2828 Oct 03 j 22:15	20° \mathbb{H} 22'56	4.08199 AU		-2822 Jan 11 j 09:39	4° \mathbb{H} 15'08	
opposition	-2828 Oct 05 j 04:31	20° \mathbb{H} 12'36	-1°43'30		-2822 Mar 08 j 08:31	30° \mathbb{R} \mathbb{B}	
direct	-2828 Dec 02 j 12:57	15° \mathbb{H} 13'54		opposition	-2822 Mar 13 j 03:14	29° \mathbb{B} 23'36	1°55'26
	-2827 Mar 19 j 21:48	0° \mathbb{Y}		min. Earth dist.	-2822 Mar 14 j 10:57	29° \mathbb{B} 13'30	4.37457 AU
evening set	-2827 Apr 07 j 22:09	4° \mathbb{Y} 16'19		direct	-2822 May 14 j 19:12	24° \mathbb{B} 23'12	
					-2822 Jul 18 j 02:07	0° \mathbb{H}	
conjunction	-2827 Apr 21 j 16:22	7° \mathbb{Y} 25'27	-0°55'27	evening set	-2822 Sep 18 j 01:32	12° \mathbb{H} 17'48	
minimum elong	-2827 Apr 21 j 16:26	7° \mathbb{Y} 25'29	0°55'25	max. Earth dist.	-2822 Sep 28 j 18:49	14° \mathbb{H} 41'33	6.33415 AU
max. Earth dist.	-2827 Apr 23 j 10:07	7° \mathbb{Y} 49'23	6.13467 AU	conjunction	-2822 Sep 30 j 15:12	15° \mathbb{H} 06'25	1°13'29
morning rise	-2827 May 05 j 11:35	10° \mathbb{Y} 34'47		minimum elong	-2822 Sep 30 j 15:14	15° \mathbb{H} 06'26	1°13'30
retrograde	-2827 Sep 09 j 12:34	29° \mathbb{Y} 29'37		morning rise	-2822 Oct 13 j 03:18	17° \mathbb{H} 54'26	
opposition	-2827 Nov 07 j 22:51	24° \mathbb{Y} 26'30	-0°54'08		-2822 Dec 12 j 10:11	0° \mathbb{B}	
min. Earth dist.	-2827 Nov 07 j 02:01	24° \mathbb{Y} 33'35	4.19302 AU	retrograde	-2821 Feb 13 j 00:22	5° \mathbb{B} 33'23	
direct	-2826 Jan 06 j 09:41	19° \mathbb{Y} 24'55		opposition	-2821 Apr 15 j 01:29	0° \mathbb{B} 41'12	1°31'27
	-2826 Apr 06 j 00:40	0° \mathbb{B}		min. Earth dist.	-2821 Apr 16 j 07:14	0° \mathbb{B} 31'44	4.28468 AU
evening set	-2826 May 13 j 13:45	7° \mathbb{B} 59'40			-2821 Apr 20 j 11:23	30° \mathbb{R} \mathbb{H}	
				direct	-2821 Jun 16 j 00:48	25° \mathbb{H} 43'30	
conjunction	-2826 May 27 j 07:21	11° \mathbb{B} 03'29	-0°15'10		-2821 Aug 09 j 17:11	0° \mathbb{B}	
minimum elong	-2826 May 27 j 07:22	11° \mathbb{B} 03'30	0°15'07	evening set	-2821 Oct 19 j 09:44	13° \mathbb{B} 57'04	
behind sun begin	-2826 May 27 j 04:57	11° \mathbb{B} 02'10					
behind sun end	-2826 May 27 j 09:46	11° \mathbb{B} 04'50		conjunction	-2821 Oct 31 j 23:33	16° \mathbb{B} 50'04	0°46'00

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Attention, astronomical year style is used: The year -2821 in astronomical counting style is the year 2822 BCE in historical counting style.

minimum elong	-2821 Oct 31 j 23:36	16°♄50'06	0°45'58	minimum elong	-2815 Apr 26 j 18:33	12°♃20'29	0°50'29
max. Earth dist.	-2821 Oct 30 j 12:53	16°♄30'08	6.22707 AU	max. Earth dist.	-2815 Apr 28 j 12:24	12°♃44'25	6.14636 AU
morning rise	-2821 Nov 13 j 13:13	19°♄43'16		morning rise	-2815 May 10 j 13:36	15°♃29'16	
	-2821 Dec 31 j 18:42	0°♄			-2815 Jul 22 j 21:14	0°♃	
retrograde	-2820 Mar 18 j 14:50	8°♄15'15		retrograde	-2815 Sep 14 j 03:27	4°♃16'44	
opposition	-2820 May 18 j 15:54	3°♄20'50	0°37'51		-2815 Nov 06 j 21:30	30°♃	
min. Earth dist.	-2820 May 19 j 11:34	3°♄14'32	4.16663 AU	opposition	-2815 Nov 12 j 13:33	29°♃14'04	-0°45'26
	-2820 Jun 16 j 10:19	30°♄		min. Earth dist.	-2815 Nov 11 j 17:29	29°♃20'51	4.20652 AU
direct	-2820 Jul 18 j 11:28	28°♄25'52		direct	-2814 Jan 11 j 03:25	24°♃12'13	
	-2820 Aug 19 j 04:18	0°♄			-2814 Mar 15 j 19:45	0°♃	
	-2820 Nov 10 j 23:54	15°♄		evening set	-2814 May 18 j 11:06	12°♃43'46	
evening set	-2820 Nov 20 j 01:11	17°♄06'04			-2814 May 28 j 16:06	15°♃	
conjunction	-2820 Dec 02 j 18:52	20°♄05'44	0°02'52	conjunction	-2814 Jun 01 j 03:57	15°♃46'44	-0°08'52
minimum elong	-2820 Dec 02 j 18:52	20°♄05'45	0°02'49	minimum elong	-2814 Jun 01 j 03:57	15°♃46'45	0°08'49
behind sun begin	-2820 Dec 02 j 10:51	20°♄01'03		behind sun begin	-2814 May 31 j 20:50	15°♃42'48	
behind sun end	-2820 Dec 03 j 02:54	20°♄10'27		behind sun end	-2814 Jun 01 j 11:04	15°♃50'41	
max. Earth dist.	-2820 Dec 02 j 03:01	19°♄56'25	6.10904 AU	max. Earth dist.	-2814 Jun 01 j 22:58	15°♃57'20	6.26604 AU
morning rise	-2820 Dec 15 j 14:22	23°♄06'32		morning rise	-2814 Jun 14 j 19:25	18°♃48'45	
desc. node	-2820 Dec 26 j 10:17	25°♄37'26			-2814 Aug 08 j 21:53	0°♄	
	-2819 Jan 15 j 00:33	0°♄		asc. node	-2814 Aug 18 j 23:24	1°♄39'36	
retrograde	-2819 Apr 24 j 00:48	12°♄38'15		retrograde	-2814 Oct 15 j 23:30	6°♄37'26	
opposition	-2819 Jun 23 j 20:01	7°♄40'16	-0°31'40	opposition	-2814 Dec 14 j 14:36	1°♄38'30	0°19'06
min. Earth dist.	-2819 Jun 23 j 20:27	7°♄40'07	4.05803 AU	min. Earth dist.	-2814 Dec 14 j 10:03	1°♄40'01	4.31896 AU
direct	-2819 Aug 22 j 04:49	2°♄46'58			-2814 Dec 27 j 03:55	30°♄	
evening set	-2819 Dec 24 j 13:34	21°♄54'24		direct	-2813 Feb 13 j 13:13	26°♄35'09	
					-2813 Apr 03 j 05:18	0°♄	
conjunction	-2818 Jan 06 j 13:46	25°♄00'46	-0°42'53	evening set	-2813 Jun 21 j 04:25	14°♄40'49	
minimum elong	-2818 Jan 06 j 13:43	25°♄00'44	0°42'58				
max. Earth dist.	-2818 Jan 07 j 02:18	25°♄08'16	6.01989 AU	conjunction	-2813 Jul 04 j 14:30	17°♄36'55	0°34'09
morning rise	-2818 Jan 19 j 16:47	28°♄08'48		minimum elong	-2813 Jul 04 j 14:28	17°♄36'54	0°34'14
	-2818 Jan 27 j 13:11	0°♄		max. Earth dist.	-2813 Jul 04 j 09:04	17°♄33'57	6.36297 AU
retrograde	-2818 May 31 j 14:17	18°♄25'25		morning rise	-2813 Jul 17 j 21:28	20°♄31'27	
opposition	-2818 Jul 30 j 21:02	13°♄23'31	-1°32'14		-2813 Sep 02 j 10:01	0°♄	
min. Earth dist.	-2818 Jul 30 j 03:42	13°♄29'19	3.99823 AU	retrograde	-2813 Nov 15 j 18:19	7°♄40'21	
direct	-2818 Sep 27 j 04:16	8°♄29'58		opposition	-2812 Jan 14 j 18:13	2°♄45'14	1°15'23
evening set	-2817 Jan 29 j 21:16	27°♄54'14		min. Earth dist.	-2812 Jan 15 j 05:32	2°♄41'32	4.39409 AU
	-2817 Feb 07 j 16:10	0°♄			-2812 Feb 06 j 02:41	30°♄	
				direct	-2812 Mar 16 j 19:16	27°♄41'51	
conjunction	-2817 Feb 12 j 04:53	1°♄05'00	-1°13'27		-2812 Apr 25 j 21:04	0°♄	
minimum elong	-2817 Feb 12 j 04:51	1°♄04'58	1°13'32	evening set	-2812 Jul 22 j 08:35	15°♄31'47	
max. Earth dist.	-2817 Feb 13 j 18:21	1°♄27'23	5.99394 AU	max. Earth dist.	-2812 Aug 03 j 04:17	18°♄06'18	6.40976 AU
morning rise	-2817 Feb 25 j 15:50	4°♄17'28					
	-2817 Apr 14 j 19:15	15°♄		conjunction	-2812 Aug 04 j 09:22	18°♄22'11	1°06'15
retrograde	-2817 Jul 07 j 19:31	24°♄41'23		minimum elong	-2812 Aug 04 j 09:19	18°♄22'09	1°06'20
min. Earth dist.	-2817 Sep 04 j 09:00	19°♄46'47	4.01087 AU	morning rise	-2812 Aug 17 j 07:04	21°♄11'01	
opposition	-2817 Sep 05 j 14:38	19°♄36'43	-1°57'46		-2812 Sep 29 j 09:56	0°♄	
	-2817 Oct 19 j 23:28	15°♄		retrograde	-2812 Dec 15 j 10:55	8°♄06'08	
direct	-2817 Nov 02 j 12:41	14°♄40'52		opposition	-2811 Feb 13 j 20:17	3°♄13'40	1°49'43
	-2817 Nov 16 j 03:35	15°♄		min. Earth dist.	-2811 Feb 14 j 21:51	3°♄05'27	4.41115 AU
	-2816 Feb 18 j 14:16	0°♄			-2811 Mar 13 j 04:55	30°♄	
evening set	-2816 Mar 07 j 03:06	4°♄02'35		direct	-2811 Apr 17 j 12:55	28°♄11'25	
					-2811 May 22 j 23:44	0°♄	
conjunction	-2816 Mar 20 j 17:44	7°♄14'13	-1°15'58		-2811 Aug 18 j 00:58	15°♄	
minimum elong	-2816 Mar 20 j 17:46	7°♄14'14	1°15'59	evening set	-2811 Aug 22 j 11:57	15°♄58'16	
max. Earth dist.	-2816 Mar 22 j 17:44	7°♄42'25	6.04273 AU	max. Earth dist.	-2811 Sep 02 j 11:48	18°♄23'12	6.39458 AU
morning rise	-2816 Apr 03 j 10:58	10°♄26'58					
	-2816 Jul 30 j 05:21	0°♄		conjunction	-2811 Sep 04 j 05:13	18°♄46'02	1°19'43
retrograde	-2816 Aug 11 j 11:51	0°♄15'03		minimum elong	-2811 Sep 04 j 05:12	18°♄46'02	1°19'45
	-2816 Aug 23 j 16:36	30°♄		morning rise	-2811 Sep 16 j 19:42	21°♄32'35	
opposition	-2816 Oct 09 j 23:31	25°♄10'00	-1°38'19		-2811 Oct 27 j 13:44	0°♄	
min. Earth dist.	-2816 Oct 08 j 18:06	25°♄20'04	4.09049 AU	retrograde	-2810 Jan 15 j 18:58	8°♄40'40	
direct	-2816 Dec 07 j 10:47	20°♄10'51		opposition	-2810 Mar 17 j 15:08	3°♄49'08	1°54'03
	-2815 Mar 01 j 12:21	0°♄		min. Earth dist.	-2810 Mar 18 j 22:30	3°♄39'09	4.36559 AU
evening set	-2815 Apr 12 j 23:44	9°♄11'37			-2810 Apr 20 j 22:19	30°♄	
				direct	-2810 May 19 j 05:01	28°♄49'05	
conjunction	-2815 Apr 26 j 18:29	12°♄20'27	-0°50'31		-2810 Jun 16 j 13:31	0°♄	

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Attention, astronomical year style is used: The year -2810 in astronomical counting style is the year 2811 BCE in historical counting style.

evening set	-2810 Sep 22 j 09:15	16° \mathbb{M} 45'34			-2804 Jun 17 j 22:17	0° Υ	
max. Earth dist.	-2810 Oct 03 j 03:02	19° \mathbb{M} 10'03	6.32153 AU	retrograde	-2804 Aug 16 j 08:03	5° Υ 14'22	
				opposition	-2804 Oct 14 j 19:10	0° Υ 09'29	-1°32'26
conjunction	-2810 Oct 04 j 22:37	19° \mathbb{M} 34'34	1°10'52	min. Earth dist.	-2804 Oct 13 j 14:16	0° Υ 19'21	4.10839 AU
minimum elong	-2810 Oct 04 j 22:39	19° \mathbb{M} 34'35	1°10'53		-2804 Oct 15 j 22:57	30° \mathbb{R} \mathbb{X}	
morning rise	-2810 Oct 17 j 10:36	22° \mathbb{M} 23'04		direct	-2804 Dec 12 j 09:20	25° \mathbb{X} 09'55	
	-2810 Nov 22 j 00:13	0° $\underline{\mathbb{A}}$			-2803 Feb 06 j 22:10	0° Υ	
retrograde	-2809 Feb 17 j 17:40	10° $\underline{\mathbb{A}}$ 08'22		evening set	-2803 Apr 18 j 00:49	14° Υ 05'23	
opposition	-2809 Apr 19 j 18:29	5° $\underline{\mathbb{A}}$ 16'01	1°25'32				
min. Earth dist.	-2809 Apr 21 j 00:33	5° $\underline{\mathbb{A}}$ 06'27	4.26896 AU	conjunction	-2803 May 01 j 19:26	17° Υ 13'18	-0°45'19
direct	-2809 Jun 20 j 15:51	0° $\underline{\mathbb{A}}$ 18'42		minimum elong	-2803 May 01 j 19:29	17° Υ 13'20	0°45'18
evening set	-2809 Oct 23 j 20:43	18° $\underline{\mathbb{A}}$ 35'52		max. Earth dist.	-2803 May 03 j 09:51	17° Υ 35'10	6.16643 AU
max. Earth dist.	-2809 Nov 04 j 00:54	21° $\underline{\mathbb{A}}$ 10'08	6.20966 AU	morning rise	-2803 May 15 j 14:26	20° Υ 21'08	
					-2803 Jun 29 j 23:49	0° \mathbb{B}	
conjunction	-2809 Nov 05 j 10:52	21° $\underline{\mathbb{A}}$ 29'44	0°40'40	retrograde	-2803 Sep 18 j 14:10	8° \mathbb{B} 58'25	
minimum elong	-2809 Nov 05 j 10:54	21° $\underline{\mathbb{A}}$ 29'45	0°40'38	min. Earth dist.	-2803 Nov 16 j 07:51	4° \mathbb{B} 02'17	4.22672 AU
morning rise	-2809 Nov 18 j 01:16	24° $\underline{\mathbb{A}}$ 23'57		opposition	-2803 Nov 17 j 02:02	3° \mathbb{B} 56'07	-0°36'39
	-2809 Dec 13 j 02:07	0° \mathbb{M}			-2803 Dec 20 j 18:38	30° \mathbb{R} Υ	
retrograde	-2808 Mar 23 j 13:32	13° \mathbb{M} 04'33		direct	-2802 Jan 15 j 21:15	28° Υ 53'54	
opposition	-2808 May 23 j 14:46	8° \mathbb{M} 09'42	0°28'36		-2802 Feb 11 j 08:23	0° \mathbb{B}	
min. Earth dist.	-2808 May 24 j 07:26	8° \mathbb{M} 04'21	4.14879 AU		-2802 May 12 j 13:06	15° \mathbb{B}	
direct	-2808 Jul 23 j 04:34	3° \mathbb{M} 15'02		evening set	-2802 May 23 j 05:08	17° \mathbb{B} 20'07	
	-2808 Oct 24 j 19:45	15° \mathbb{M}					
desc. node	-2808 Nov 05 j 04:29	17° \mathbb{M} 29'33		conjunction	-2802 Jun 05 j 21:20	20° \mathbb{B} 21'58	-0°02'43
evening set	-2808 Nov 24 j 18:07	21° \mathbb{M} 59'47		minimum elong	-2802 Jun 05 j 21:21	20° \mathbb{B} 21'59	0°02'39
				behind sun begin	-2802 Jun 05 j 13:04	20° \mathbb{B} 17'24	
conjunction	-2808 Dec 07 j 12:42	25° \mathbb{M} 00'32	-0°03'54	behind sun end	-2802 Jun 06 j 05:39	20° \mathbb{B} 26'34	
minimum elong	-2808 Dec 07 j 12:42	25° \mathbb{M} 00'32	0°03'58	max. Earth dist.	-2802 Jun 06 j 13:37	20° \mathbb{B} 31'00	6.28489 AU
behind sun begin	-2808 Dec 07 j 04:45	24° \mathbb{M} 55'51		morning rise	-2802 Jun 19 j 11:38	23° \mathbb{B} 22'44	
behind sun end	-2808 Dec 07 j 20:39	25° \mathbb{M} 05'13		asc. node	-2802 Jun 29 j 16:28	25° \mathbb{B} 36'32	
max. Earth dist.	-2808 Dec 07 j 01:15	24° \mathbb{M} 53'47	6.09249 AU		-2802 Jul 20 j 14:09	0° \mathbb{I}	
morning rise	-2808 Dec 20 j 09:04	28° \mathbb{M} 02'28		retrograde	-2802 Oct 20 j 05:45	11° \mathbb{I} 03'26	
	-2808 Dec 28 j 18:32	0° \mathbb{X}		opposition	-2802 Dec 18 j 21:58	6° \mathbb{I} 05'04	0°27'40
retrograde	-2807 Apr 29 j 07:43	17° \mathbb{X} 42'35		min. Earth dist.	-2802 Dec 18 j 19:51	6° \mathbb{I} 05'46	4.33486 AU
opposition	-2807 Jun 29 j 00:02	12° \mathbb{X} 44'05	-0°41'23	direct	-2801 Feb 18 j 01:07	1° \mathbb{I} 01'36	
min. Earth dist.	-2807 Jun 28 j 22:42	12° \mathbb{X} 44'31	4.04432 AU	evening set	-2801 Jun 25 j 15:56	19° \mathbb{I} 03'32	
direct	-2807 Aug 27 j 05:06	7° \mathbb{X} 50'54					
evening set	-2807 Dec 29 j 13:50	27° \mathbb{X} 02'14		conjunction	-2801 Jul 09 j 00:39	21° \mathbb{I} 58'38	0°39'24
	-2806 Jan 10 j 23:11	0° \mathbb{Z}		minimum elong	-2801 Jul 09 j 00:36	21° \mathbb{I} 58'37	0°39'28
				max. Earth dist.	-2801 Jul 08 j 13:45	21° \mathbb{I} 52'40	6.37443 AU
conjunction	-2806 Jan 11 j 15:00	0° \mathbb{Z} 09'29	-0°48'29	morning rise	-2801 Jul 22 j 06:29	24° \mathbb{I} 52'11	
minimum elong	-2806 Jan 11 j 14:57	0° \mathbb{Z} 09'27	0°48'33		-2801 Aug 15 j 10:55	0° \mathbb{E}	
max. Earth dist.	-2806 Jan 12 j 07:10	0° \mathbb{Z} 19'10	6.01037 AU	retrograde	-2801 Nov 19 j 22:54	11° \mathbb{E} 57'15	
morning rise	-2806 Jan 24 j 19:15	3° \mathbb{Z} 18'26		opposition	-2800 Jan 18 j 23:48	7° \mathbb{E} 02'33	1°21'34
retrograde	-2806 Jun 05 j 20:54	23° \mathbb{Z} 39'12		min. Earth dist.	-2800 Jan 19 j 14:15	6° \mathbb{E} 57'50	4.40058 AU
min. Earth dist.	-2806 Aug 04 j 05:42	18° \mathbb{Z} 43'44	3.99454 AU	direct	-2800 Mar 21 j 04:28	1° \mathbb{E} 59'09	
opposition	-2806 Aug 05 j 02:13	18° \mathbb{Z} 36'52	-1°38'24	evening set	-2800 Jul 26 j 15:29	19° \mathbb{E} 47'56	
direct	-2806 Oct 02 j 05:56	13° \mathbb{Z} 43'10		max. Earth dist.	-2800 Aug 07 j 08:28	22° \mathbb{E} 20'59	6.41058 AU
	-2805 Jan 21 j 17:51	0° \approx					
evening set	-2805 Feb 04 j 02:50	3° \approx 08'38		conjunction	-2800 Aug 08 j 15:16	22° \mathbb{E} 37'49	1°09'18
				minimum elong	-2800 Aug 08 j 15:13	22° \mathbb{E} 37'48	1°09'23
conjunction	-2805 Feb 17 j 11:27	6° \approx 19'43	-1°15'39	morning rise	-2800 Aug 21 j 11:38	25° \mathbb{E} 26'07	
minimum elong	-2805 Feb 17 j 11:25	6° \approx 19'42	1°15'43		-2800 Sep 11 j 22:29	0° \mathbb{Q}	
max. Earth dist.	-2805 Feb 19 j 03:17	6° \approx 43'30	5.99641 AU	retrograde	-2800 Dec 19 j 15:27	12° \mathbb{Q} 21'55	
morning rise	-2805 Mar 02 j 23:25	9° \approx 32'30		opposition	-2799 Feb 18 j 03:07	7° \mathbb{Q} 29'42	1°52'11
	-2805 Mar 26 j 13:23	15° \approx		min. Earth dist.	-2799 Feb 19 j 05:45	7° \mathbb{Q} 21'10	4.40648 AU
retrograde	-2805 Jul 12 j 22:38	29° \approx 53'35		direct	-2799 Apr 21 j 19:30	2° \mathbb{Q} 27'43	
min. Earth dist.	-2805 Sep 09 j 10:14	24° \approx 59'00	4.01946 AU		-2799 Aug 02 j 00:59	15° \mathbb{Q}	
opposition	-2805 Sep 10 j 16:42	24° \approx 48'38	-1°57'39	evening set	-2799 Aug 26 j 17:46	20° \mathbb{Q} 16'04	
direct	-2805 Nov 07 j 16:08	19° \approx 52'19		max. Earth dist.	-2799 Sep 06 j 14:22	22° \mathbb{Q} 39'41	6.38457 AU
	-2804 Jan 30 j 23:21	0° \mathbb{X}					
evening set	-2804 Mar 12 j 08:41	9° \mathbb{X} 11'22		conjunction	-2799 Sep 08 j 10:09	23° \mathbb{Q} 03'53	1°19'49
				minimum elong	-2799 Sep 08 j 10:09	23° \mathbb{Q} 03'53	1°19'52
conjunction	-2804 Mar 26 j 00:16	12° \mathbb{X} 22'44	-1°13'53	morning rise	-2799 Sep 21 j 00:11	25° \mathbb{Q} 50'37	
minimum elong	-2804 Mar 26 j 00:18	12° \mathbb{X} 22'46	1°13'54		-2799 Oct 10 j 05:55	0° \mathbb{M}	
max. Earth dist.	-2804 Mar 28 j 02:23	12° \mathbb{X} 52'04	6.05678 AU	retrograde	-2798 Jan 20 j 07:06	13° \mathbb{M} 03'39	
morning rise	-2804 Apr 08 j 17:53	15° \mathbb{X} 35'01		opposition	-2798 Mar 22 j 02:42	8° \mathbb{M} 12'09	1°52'03

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Attention, astronomical year style is used: The year -2798 in astronomical counting style is the year 2799 BCE in historical counting style.

min. Earth dist.	-2798 Mar 23 j 11:39	8° 10 01'40	4.35085 AU	evening set	-2792 Mar 17 j 13:45	14° 18 18'10	
direct	-2798 May 23 j 15:53	3° 10 12'25					
evening set	-2798 Sep 26 j 16:46	21° 10 12'43		conjunction	-2792 Mar 31 j 05:49	17° 18 29'04	-1°11'15
max. Earth dist.	-2798 Oct 07 j 11:01	23° 10 38'04	6.30321 AU	minimum elong	-2792 Mar 31 j 05:52	17° 18 29'06	1°11'16
				max. Earth dist.	-2792 Apr 02 j 06:15	17° 18 57'17	6.07276 AU
conjunction	-2798 Oct 09 j 06:12	24° 10 02'27	1°07'50	morning rise	-2792 Apr 14 j 00:02	20° 18 40'50	
minimum elong	-2798 Oct 09 j 06:14	24° 10 02'29	1°07'51		-2792 May 26 j 13:09	0° 19	
morning rise	-2798 Oct 21 j 18:18	26° 10 51'46		retrograde	-2792 Aug 21 j 01:08	10° 19 11'05	
	-2798 Nov 04 j 21:24	0° 20		min. Earth dist.	-2792 Oct 18 j 09:09	5° 19 16'04	4.12654 AU
retrograde	-2797 Feb 22 j 11:13	14° 20 45'30		opposition	-2792 Oct 19 j 13:21	5° 19 06'27	-1°25'56
opposition	-2797 Apr 24 j 12:51	9° 20 52'56	1°19'04	direct	-2792 Dec 17 j 07:10	0° 19 06'27	
min. Earth dist.	-2797 Apr 25 j 16:43	9° 20 44'03	4.24836 AU	evening set	-2791 Apr 23 j 00:48	18° 19 57'04	
direct	-2797 Jun 25 j 04:45	4° 20 56'03					
evening set	-2797 Oct 28 j 09:23	23° 20 18'27		conjunction	-2791 May 06 j 19:30	22° 19 04'10	-0°39'51
				minimum elong	-2791 May 06 j 19:33	22° 19 04'12	0°39'50
conjunction	-2797 Nov 09 j 24:00	26° 20 13'24	0°35'01	max. Earth dist.	-2791 May 08 j 07:35	22° 19 24'38	6.18552 AU
minimum elong	-2797 Nov 10 j 00:02	26° 20 13'25	0°34'59	morning rise	-2791 May 20 j 14:02	25° 19 10'59	
max. Earth dist.	-2797 Nov 08 j 17:14	25° 20 55'34	6.18865 AU		-2791 Jun 11 j 11:06	0° 20	
morning rise	-2797 Nov 22 j 15:05	29° 20 08'50		retrograde	-2791 Sep 23 j 02:54	13° 20 39'01	
	-2797 Nov 26 j 08:07	0° 21		opposition	-2791 Nov 21 j 14:09	8° 20 37'18	-0°27'42
	-2796 Feb 12 j 20:30	15° 21		min. Earth dist.	-2791 Nov 20 j 22:39	8° 20 42'32	4.24483 AU
retrograde	-2796 Mar 28 j 17:40	17° 21 59'28		direct	-2790 Jan 20 j 14:33	3° 20 34'52	
	-2796 May 13 j 06:16	15° 21 59'28			-2790 Apr 25 j 05:50	15° 20	
opposition	-2796 May 28 j 16:29	13° 21 04'12	0°18'59	asc. node	-2790 May 09 j 20:29	18° 20 01'34	
min. Earth dist.	-2796 May 29 j 07:21	12° 21 59'25	4.12893 AU	evening set	-2790 May 27 j 22:49	21° 20 56'42	
direct	-2796 Jul 28 j 01:53	8° 21 09'53					
desc. node	-2796 Sep 14 j 07:41	11° 21 43'27		conjunction	-2790 Jun 10 j 14:09	24° 20 57'34	0°03'36
	-2796 Oct 04 j 16:07	15° 21		minimum elong	-2790 Jun 10 j 14:09	24° 20 57'33	0°03'40
evening set	-2796 Nov 29 j 13:59	26° 21 59'47		behind sun begin	-2790 Jun 10 j 05:57	24° 20 53'02	
				behind sun end	-2790 Jun 10 j 22:22	25° 20 02'05	
conjunction	-2796 Dec 12 j 09:27	0° 21 01'40	-0°10'36	max. Earth dist.	-2790 Jun 11 j 01:55	25° 20 04'03	6.30066 AU
minimum elong	-2796 Dec 12 j 09:26	0° 21 01'39	0°10'41	morning rise	-2790 Jun 24 j 03:32	27° 20 57'16	
behind sun begin	-2796 Dec 12 j 03:09	29° 21 57'57			-2790 Jul 03 j 12:31	0° 21	
behind sun end	-2796 Dec 12 j 15:42	0° 21 05'21		retrograde	-2790 Oct 24 j 12:21	15° 21 31'28	
max. Earth dist.	-2796 Dec 12 j 02:02	29° 21 57'17	6.07572 AU	opposition	-2790 Dec 23 j 06:09	10° 21 33'39	0°36'08
	-2796 Dec 12 j 06:37	0° 21		min. Earth dist.	-2790 Dec 23 j 06:19	10° 21 33'35	4.34731 AU
morning rise	-2796 Dec 25 j 06:57	3° 21 04'49		direct	-2789 Feb 22 j 13:03	5° 21 30'05	
retrograde	-2795 May 04 j 14:25	22° 21 52'57		evening set	-2789 Jun 30 j 04:07	23° 21 29'28	
opposition	-2795 Jul 04 j 06:12	17° 21 53'54	-0°50'58				
min. Earth dist.	-2795 Jul 04 j 00:49	17° 21 55'40	4.03257 AU	conjunction	-2789 Jul 13 j 11:41	26° 21 23'44	0°44'29
direct	-2795 Sep 01 j 05:49	13° 21 00'52		minimum elong	-2789 Jul 13 j 11:38	26° 21 23'42	0°44'33
	-2795 Dec 25 j 03:48	0° 22		max. Earth dist.	-2789 Jul 12 j 22:08	26° 21 16'19	6.38273 AU
evening set	-2794 Jan 03 j 16:36	2° 22 15'17		morning rise	-2789 Jul 26 j 16:04	29° 21 16'23	
					-2789 Jul 30 j 00:36	0° 22	
conjunction	-2794 Jan 16 j 18:44	5° 22 23'12	-0°53'47	retrograde	-2789 Nov 24 j 04:53	16° 22 18'45	
minimum elong	-2794 Jan 16 j 18:41	5° 22 23'10	0°53'52	opposition	-2788 Jan 23 j 06:59	11° 22 24'32	1°27'26
max. Earth dist.	-2794 Jan 17 j 15:08	5° 22 35'26	6.00443 AU	min. Earth dist.	-2788 Jan 23 j 23:35	11° 22 19'08	4.40437 AU
morning rise	-2794 Jan 30 j 00:06	8° 22 32'54		direct	-2788 Mar 25 j 14:04	6° 22 21'17	
retrograde	-2794 Jun 11 j 04:38	28° 22 56'01		evening set	-2788 Jul 31 j 00:11	24° 22 09'35	
min. Earth dist.	-2794 Aug 09 j 09:44	24° 22 00'46	3.99511 AU				
opposition	-2794 Aug 10 j 08:26	23° 22 53'08	-1°43'49	conjunction	-2788 Aug 12 j 22:42	26° 22 59'00	1°12'02
direct	-2794 Oct 07 j 11:22	18° 22 59'08		minimum elong	-2788 Aug 12 j 22:39	26° 22 58'59	1°12'05
	-2793 Jan 03 j 09:58	0° 23		max. Earth dist.	-2788 Aug 11 j 12:01	26° 22 40'02	6.40937 AU
evening set	-2793 Feb 09 j 08:54	8° 23 24'07		morning rise	-2788 Aug 25 j 18:10	29° 22 46'57	
					-2788 Aug 26 j 18:11	0° 23	
conjunction	-2793 Feb 22 j 18:39	11° 23 35'21	-1°17'15		-2788 Nov 20 j 08:50	15° 23	
minimum elong	-2793 Feb 22 j 18:37	11° 23 35'21	1°17'18	retrograde	-2788 Dec 24 j 00:32	16° 23 04'05	
max. Earth dist.	-2793 Feb 24 j 14:42	12° 23 01'35	6.00310 AU		-2787 Jan 26 j 20:25	15° 23 00	
morning rise	-2793 Mar 08 j 07:24	14° 23 48'10		opposition	-2787 Feb 22 j 12:36	11° 23 52'03	1°54'06
	-2793 Mar 09 j 03:29	15° 23		min. Earth dist.	-2787 Feb 23 j 17:05	11° 23 42'56	4.40059 AU
	-2793 May 20 j 14:04	0° 24		direct	-2787 Apr 26 j 05:36	6° 23 50'17	
retrograde	-2793 Jul 18 j 01:30	5° 24 04'32			-2787 Jul 14 j 19:05	15° 23	
min. Earth dist.	-2793 Sep 14 j 11:19	0° 24 09'56	4.03150 AU	evening set	-2787 Aug 31 j 01:10	24° 23 40'10	
opposition	-2793 Sep 15 j 18:06	29° 24 59'27	-1°56'36	max. Earth dist.	-2787 Sep 10 j 21:45	27° 23 04'07	6.37444 AU
	-2793 Sep 15 j 16:28	30° 24 59'27					
direct	-2793 Nov 12 j 18:27	25° 24 02'44		conjunction	-2787 Sep 12 j 17:05	27° 23 08'08	1°19'30
	-2792 Jan 08 j 05:04	0° 25		minimum elong	-2787 Sep 12 j 17:05	27° 23 08'08	1°19'33

Attention, astronomical year style is used: The year -2787 in astronomical counting style is the year 2788 BCE in historical counting style.

	-2787 Sep 24 j 03:11	0°♎		opposition	-2781 Sep 20 j 15:01	4°♎59'18	-1°54'41
morning rise	-2787 Sep 25 j 06:27	0°♎15'02		direct	-2781 Nov 17 j 16:27	0°♎02'07	
retrograde	-2786 Jan 24 j 19:25	17°♎33'02		evening set	-2780 Mar 22 j 14:50	19°♎14'08	
opposition	-2786 Mar 26 j 16:46	12°♎41'30	1°49'21				
min. Earth dist.	-2786 Mar 28 j 00:52	12°♎31'18	4.33724 AU	conjunction	-2780 Apr 05 j 07:37	22°♎24'40	-1°08'12
direct	-2786 May 28 j 02:45	7°♎42'12		minimum elong	-2780 Apr 05 j 07:40	22°♎24'42	1°08'12
evening set	-2786 Oct 01 j 02:15	25°♎45'34		max. Earth dist.	-2780 Apr 07 j 07:18	22°♎52'21	6.08779 AU
max. Earth dist.	-2786 Oct 11 j 20:56	28°♎11'46	6.28736 AU	morning rise	-2780 Apr 19 j 02:03	25°♎35'51	
					-2780 May 08 j 13:25	0°♏	
conjunction	-2786 Oct 13 j 15:28	28°♎35'53	1°04'22	retrograde	-2780 Aug 25 j 17:35	14°♏57'46	
minimum elong	-2786 Oct 13 j 15:30	28°♎35'55	1°04'21	min. Earth dist.	-2780 Oct 23 j 02:23	10°♏02'15	4.14248 AU
	-2786 Oct 19 j 19:46	0°♏		opposition	-2780 Oct 24 j 04:09	9°♏53'28	-1°19'06
morning rise	-2786 Oct 26 j 03:50	1°♏25'57		direct	-2780 Dec 22 j 02:32	4°♏53'05	
retrograde	-2785 Feb 27 j 08:35	19°♏27'15		evening set	-2779 Apr 27 j 21:31	23°♏39'49	
opposition	-2785 Apr 29 j 09:05	14°♏34'23	1°11'58				
min. Earth dist.	-2785 Apr 30 j 11:59	14°♏25'48	4.23128 AU	conjunction	-2779 May 11 j 16:05	26°♏46'13	-0°34'18
direct	-2785 Jun 29 j 21:49	9°♏37'54		minimum elong	-2779 May 11 j 16:08	26°♏46'15	0°34'16
evening set	-2785 Nov 01 j 23:05	28°♏04'03		max. Earth dist.	-2779 May 13 j 00:58	27°♏04'47	6.20112 AU
	-2785 Nov 10 j 07:14	0°♏		morning rise	-2779 May 25 j 10:18	29°♏52'13	
max. Earth dist.	-2785 Nov 13 j 10:55	0°♏44'00	6.17220 AU		-2779 May 26 j 00:13	0°♐	
					-2779 Aug 12 j 18:37	15°♐	
conjunction	-2785 Nov 14 j 14:18	0°♏59'56	0°29'05	retrograde	-2779 Sep 27 j 11:13	18°♐12'33	
minimum elong	-2785 Nov 14 j 14:20	0°♏59'57	0°29'03		-2779 Nov 12 j 05:43	15°♐	
morning rise	-2785 Nov 27 j 06:05	3°♏56'23		opposition	-2779 Nov 25 j 23:42	13°♐11'22	-0°18'51
	-2784 Jan 17 j 22:17	15°♏		min. Earth dist.	-2779 Nov 25 j 09:46	13°♐16'04	4.25885 AU
retrograde	-2784 Apr 02 j 19:02	22°♏55'04		direct	-2778 Jan 25 j 03:24	8°♐08'43	
opposition	-2784 Jun 02 j 18:07	17°♏59'18	0°09'13	asc. node	-2778 Mar 20 j 20:57	12°♐28'28	
min. Earth dist.	-2784 Jun 03 j 05:23	17°♏55'40	4.11460 AU		-2778 Apr 05 j 17:21	15°♐	
	-2784 Jun 27 j 16:23	15°♐		evening set	-2778 Jun 01 j 14:35	26°♐27'48	
desc. node	-2784 Jul 25 j 02:52	13°♏11'15					
direct	-2784 Aug 01 j 21:53	13°♏05'19		conjunction	-2778 Jun 15 j 05:06	29°♐27'52	0°09'36
	-2784 Sep 05 j 17:39	15°♏		minimum elong	-2778 Jun 15 j 05:05	29°♐27'51	0°09'40
	-2784 Nov 25 j 23:29	0°♑		behind sun begin	-2778 Jun 14 j 22:20	29°♐24'08	
evening set	-2784 Dec 04 j 09:30	1°♑58'19		behind sun end	-2778 Jun 15 j 11:50	29°♐31'34	
				max. Earth dist.	-2778 Jun 15 j 12:48	29°♐32'06	6.31220 AU
conjunction	-2784 Dec 17 j 05:40	5°♑01'00	-0°17'11		-2778 Jun 17 j 15:14	0°♒	
minimum elong	-2784 Dec 17 j 05:39	5°♑00'59	0°17'16	morning rise	-2778 Jun 28 j 17:26	2°♒26'40	
max. Earth dist.	-2784 Dec 17 j 02:05	4°♑58'52	6.06479 AU	retrograde	-2778 Oct 28 j 20:11	19°♒55'59	
morning rise	-2784 Dec 30 j 04:12	8°♑05'04		opposition	-2778 Dec 27 j 13:20	14°♒58'47	0°44'15
retrograde	-2783 May 09 j 19:46	27°♑58'54		min. Earth dist.	-2778 Dec 27 j 16:35	14°♒57'43	4.35568 AU
opposition	-2783 Jul 09 j 10:31	22°♑59'12	-0°59'57	direct	-2777 Feb 27 j 00:23	9°♒55'14	
min. Earth dist.	-2783 Jul 09 j 02:21	23°♑01'54	4.02612 AU	evening set	-2777 Jul 04 j 15:33	27°♒53'24	
direct	-2783 Sep 06 j 07:29	18°♑06'07			-2777 Jul 14 j 07:56	0°♓	
	-2783 Dec 07 j 16:39	0°♓					
evening set	-2782 Jan 08 j 17:10	7°♓21'44		conjunction	-2777 Jul 17 j 21:57	0°♓47'01	0°49'14
				minimum elong	-2777 Jul 17 j 21:54	0°♓46'59	0°49'20
conjunction	-2782 Jan 21 j 20:21	10°♓30'09	-0°58'32	max. Earth dist.	-2777 Jul 17 j 04:50	0°♓37'39	6.38719 AU
minimum elong	-2782 Jan 21 j 20:18	10°♓30'07	0°58'38	morning rise	-2777 Jul 31 j 01:09	3°♓39'00	
max. Earth dist.	-2782 Jan 22 j 21:44	10°♓45'21	6.00298 AU	retrograde	-2777 Nov 28 j 11:15	20°♓40'03	
morning rise	-2782 Feb 04 j 02:36	13°♓40'17		opposition	-2776 Jan 27 j 14:34	15°♓46'13	1°32'46
	-2782 Apr 25 j 06:51	0°♔		min. Earth dist.	-2776 Jan 28 j 08:38	15°♓40'21	4.40510 AU
retrograde	-2782 Jun 16 j 09:15	4°♔03'41		direct	-2776 Mar 29 j 22:53	10°♓43'07	
	-2782 Aug 08 j 00:23	30°♔		evening set	-2776 Aug 04 j 08:51	28°♓31'46	
min. Earth dist.	-2782 Aug 14 j 10:48	29°♓08'28	3.99909 AU		-2776 Aug 11 j 02:43	0°♕	
opposition	-2782 Aug 15 j 10:52	29°♓00'22	-1°48'12	max. Earth dist.	-2776 Aug 15 j 19:15	1°♕01'38	6.40628 AU
direct	-2782 Oct 12 j 12:28	24°♓06'06					
	-2782 Dec 13 j 05:41	0°♕		conjunction	-2776 Aug 17 j 06:21	1°♕20'53	1°14'19
evening set	-2781 Feb 14 j 11:55	13°♕29'38		minimum elong	-2776 Aug 17 j 06:18	1°♕20'51	1°14'23
	-2781 Feb 20 j 20:32	15°♕		morning rise	-2776 Aug 30 j 00:39	4°♕08'30	
					-2776 Oct 23 j 12:33	15°♕	
conjunction	-2781 Feb 27 j 22:24	16°♕40'51	-1°18'11	retrograde	-2776 Dec 28 j 09:31	21°♕07'34	
minimum elong	-2781 Feb 27 j 22:23	16°♕40'51	1°18'14	opposition	-2775 Feb 26 j 22:51	16°♕15'47	1°55'21
max. Earth dist.	-2781 Mar 01 j 18:37	17°♕07'06	6.01170 AU	min. Earth dist.	-2775 Feb 28 j 04:01	16°♕06'27	4.39409 AU
morning rise	-2781 Mar 13 j 12:10	19°♕53'37			-2775 Mar 08 j 22:22	15°♕	
	-2781 Apr 28 j 00:30	0°♕		direct	-2775 Apr 30 j 15:28	11°♕14'22	
retrograde	-2781 Jul 22 j 21:59	10°♕04'31			-2775 Jun 21 j 15:25	15°♕	
min. Earth dist.	-2781 Sep 19 j 07:38	5°♕10'00	4.04386 AU	evening set	-2775 Sep 04 j 09:15	29°♕05'45	

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Attention, astronomical year style is used: The year -2775 in astronomical counting style is the year 2776 BCE in historical counting style.

	-2775 Sep 08 j 11:25	0°♎		morning rise	-2769 Mar 18 j 16:51	24°♏59'41	
max. Earth dist.	-2775 Sep 15 j 03:37	1°♎28'56	6.36487 AU		-2769 Apr 09 j 10:45	0°♏	
				retrograde	-2769 Jul 27 j 21:33	15°♏06'12	
conjunction	-2775 Sep 17 j 00:24	1°♎53'50	1°18'42	min. Earth dist.	-2769 Sep 24 j 06:01	10°♏11'15	4.05312 AU
minimum elong	-2775 Sep 17 j 00:25	1°♎53'50	1°18'44	opposition	-2769 Sep 25 j 12:14	10°♏00'56	-1°52'00
morning rise	-2775 Sep 29 j 13:29	4°♎40'58		direct	-2769 Nov 22 j 16:29	5°♏03'16	
retrograde	-2774 Jan 29 j 10:14	22°♎03'41		evening set	-2768 Mar 27 j 17:09	24°♏13'05	
opposition	-2774 Mar 31 j 07:26	17°♎12'03	1°45'58				
min. Earth dist.	-2774 Apr 01 j 15:21	17°♎01'53	4.32512 AU	conjunction	-2768 Apr 10 j 10:32	27°♏23'21	-1°04'37
direct	-2774 Jun 01 j 15:29	12°♎13'05		minimum elong	-2768 Apr 10 j 10:36	27°♏23'23	1°04'37
	-2774 Oct 04 j 02:03	0°♏		max. Earth dist.	-2768 Apr 12 j 09:14	27°♏50'22	6.09972 AU
evening set	-2774 Oct 05 j 11:30	0°♏18'50			-2768 Apr 21 j 17:55	0°♏	
max. Earth dist.	-2774 Oct 16 j 09:01	2°♏47'03	6.27371 AU	morning rise	-2768 Apr 24 j 05:24	0°♏34'10	
				retrograde	-2768 Aug 30 j 09:10	19°♏48'35	
conjunction	-2774 Oct 18 j 00:54	3°♏09'45	1°00'28	opposition	-2768 Oct 28 j 19:58	14°♏44'35	-1°11'39
minimum elong	-2774 Oct 18 j 00:57	3°♏09'46	1°00'28	min. Earth dist.	-2768 Oct 27 j 18:42	14°♏53'11	4.15577 AU
morning rise	-2774 Oct 30 j 13:21	6°♏00'27		direct	-2768 Dec 26 j 20:47	9°♏43'48	
retrograde	-2773 Mar 04 j 03:29	24°♏08'29		evening set	-2767 May 02 j 20:22	28°♏27'36	
opposition	-2773 May 04 j 04:52	19°♏15'18	1°04'24		-2767 May 09 j 16:59	0°♏	
min. Earth dist.	-2773 May 05 j 05:43	19°♏07'22	4.21680 AU				
direct	-2773 Jul 04 j 12:53	14°♏19'14		conjunction	-2767 May 16 j 14:43	1°♏33'21	-0°28'24
	-2773 Oct 25 j 06:04	0°♏		minimum elong	-2767 May 16 j 14:46	1°♏33'22	0°28'21
evening set	-2773 Nov 06 j 12:06	2°♏48'16		max. Earth dist.	-2767 May 17 j 19:45	1°♏49'42	6.21489 AU
max. Earth dist.	-2773 Nov 18 j 02:19	5°♏30'09	6.15800 AU	morning rise	-2767 May 30 j 08:33	4°♏38'34	
					-2767 Jul 19 j 02:44	15°♏	
conjunction	-2773 Nov 19 j 03:40	5°♏44'57	0°23'00	retrograde	-2767 Oct 02 j 00:03	22°♏51'44	
minimum elong	-2773 Nov 19 j 03:41	5°♏44'58	0°22'57	opposition	-2767 Nov 30 j 11:39	17°♏51'05	-0°09'41
morning rise	-2773 Dec 01 j 20:18	8°♏42'22		min. Earth dist.	-2767 Nov 30 j 00:39	17°♏54'47	4.27178 AU
	-2773 Dec 29 j 19:08	15°♏			-2767 Dec 23 j 03:02	15°♏♏	
retrograde	-2772 Apr 07 j 19:48	27°♏48'32		asc. node	-2766 Jan 28 j 09:55	12°♏48'26	
desc. node	-2772 Jun 04 j 11:48	23°♏17'39		direct	-2766 Jan 29 j 20:18	12°♏48'14	
opposition	-2772 Jun 07 j 18:26	22°♏52'13	-0°00'35		-2766 Mar 09 j 00:10	15°♏	
min. Earth dist.	-2772 Jun 08 j 03:19	22°♏49'20	4.10155 AU		-2766 Jun 01 j 10:04	0°♏	
direct	-2772 Aug 06 j 18:33	17°♏58'24		evening set	-2766 Jun 06 j 08:26	1°♏04'37	
	-2772 Nov 08 j 21:57	0°♏♏					
evening set	-2772 Dec 09 j 03:54	6°♏♏54'25		conjunction	-2766 Jun 19 j 22:09	4°♏03'51	0°15'43
				minimum elong	-2766 Jun 19 j 22:07	4°♏03'51	0°15'47
conjunction	-2772 Dec 22 j 01:04	9°♏♏57'57	-0°23'36	behind sun begin	-2766 Jun 19 j 21:51	4°♏03'42	
minimum elong	-2772 Dec 22 j 01:02	9°♏♏57'56	0°23'40	behind sun end	-2766 Jun 19 j 22:24	4°♏04'00	
max. Earth dist.	-2772 Dec 22 j 02:09	9°♏♏58'36	6.05416 AU	max. Earth dist.	-2766 Jun 20 j 03:36	4°♏06'51	6.32353 AU
morning rise	-2771 Jan 04 j 00:29	13°♏♏02'55		morning rise	-2766 Jul 03 j 09:19	7°♏01'43	
	-2771 Mar 31 j 02:28	0°♏		retrograde	-2766 Nov 02 j 03:38	24°♏26'08	
retrograde	-2771 May 15 j 00:31	3°♏02'15		opposition	-2766 Dec 31 j 22:59	19°♏29'26	0°52'17
	-2771 Jun 29 j 05:35	30°♏♏♏		min. Earth dist.	-2765 Jan 01 j 03:08	19°♏28'03	4.36499 AU
opposition	-2771 Jul 14 j 12:57	28°♏♏02'03	-1°08'28	direct	-2765 Mar 03 j 12:23	14°♏25'55	
min. Earth dist.	-2771 Jul 14 j 02:48	28°♏♏05'24	4.01914 AU		-2765 Jun 28 j 04:10	0°♏	
direct	-2771 Sep 11 j 06:32	23°♏♏08'55		evening set	-2765 Jul 09 j 04:54	2°♏22'10	
	-2771 Nov 17 j 13:45	0°♏					
evening set	-2770 Jan 13 j 17:11	12°♏26'28		conjunction	-2765 Jul 22 j 09:56	5°♏14'57	0°53'50
				minimum elong	-2765 Jul 22 j 09:53	5°♏14'55	0°53'55
conjunction	-2770 Jan 26 j 21:13	15°♏35'25	-1°02'51	max. Earth dist.	-2765 Jul 21 j 14:24	5°♏04'16	6.39401 AU
minimum elong	-2770 Jan 26 j 21:10	15°♏35'23	1°02'55	morning rise	-2765 Aug 04 j 11:48	8°♏06'07	
max. Earth dist.	-2770 Jan 28 j 00:10	15°♏51'33	5.99997 AU	retrograde	-2765 Dec 02 j 19:48	25°♏04'53	
morning rise	-2770 Feb 09 j 04:42	18°♏34'10		opposition	-2764 Jan 31 j 23:59	20°♏11'27	1°37'40
	-2770 Mar 31 j 21:13	0°♏		min. Earth dist.	-2764 Feb 01 j 19:59	20°♏04'59	4.40930 AU
retrograde	-2770 Jun 21 j 10:30	9°♏10'27		direct	-2764 Apr 03 j 11:13	15°♏08'35	
min. Earth dist.	-2770 Aug 19 j 09:54	4°♏15'33	4.00058 AU		-2764 Jul 26 j 02:39	0°♏	
opposition	-2770 Aug 20 j 12:02	4°♏06'43	-1°51'48	evening set	-2764 Aug 08 j 18:18	2°♏55'56	
	-2770 Sep 25 j 21:36	30°♏♏♏		max. Earth dist.	-2764 Aug 20 j 01:39	5°♏24'14	6.40749 AU
direct	-2770 Oct 17 j 11:50	29°♏12'04					
	-2770 Nov 08 j 03:51	0°♏		conjunction	-2764 Aug 21 j 14:40	5°♏44'32	1°16'15
	-2769 Feb 04 j 04:50	15°♏		minimum elong	-2764 Aug 21 j 14:38	5°♏44'31	1°16'18
evening set	-2769 Feb 19 j 14:43	18°♏35'27		morning rise	-2764 Sep 03 j 08:00	8°♏31'42	
					-2764 Oct 04 j 01:56	15°♏	
conjunction	-2769 Mar 05 j 02:21	21°♏46'52	-1°18'33	retrograde	-2763 Jan 01 j 18:26	25°♏31'13	
minimum elong	-2769 Mar 05 j 02:21	21°♏46'52	1°18'36	opposition	-2763 Mar 03 j 09:37	20°♏39'30	1°55'56
max. Earth dist.	-2769 Mar 07 j 00:36	22°♏41'16	6.01748 AU	min. Earth dist.	-2763 Mar 04 j 14:49	20°♏30'10	4.39242 AU

Attention, astronomical year style is used: The year -2763 in astronomical counting style is the year 2764 BCE in historical counting style.

direct	-2763 May 05 j 02:01	15° Ω 38'23		minimum elong	-2757 Mar 10 j 04:38	26° \approx 47'34	1°18'21
	-2763 Aug 23 j 15:05	0° \mathbb{M}		max. Earth dist.	-2757 Mar 12 j 03:46	27° \approx 15'27	6.02013 AU
evening set	-2763 Sep 08 j 16:17	3° \mathbb{M} 29'19		morning rise	-2757 Mar 23 j 20:07	0° \mathbb{H} 00'41	
max. Earth dist.	-2763 Sep 19 j 11:37	5° \mathbb{M} 53'12	6.36046 AU		-2757 Mar 23 j 18:57	0° \mathbb{H}	
				retrograde	-2757 Aug 01 j 18:18	20° \mathbb{H} 03'54	
conjunction	-2763 Sep 21 j 06:55	6° \mathbb{M} 17'19	1°17'28	min. Earth dist.	-2757 Sep 29 j 00:35	15° \mathbb{H} 09'18	4.05956 AU
minimum elong	-2763 Sep 21 j 06:56	6° \mathbb{M} 17'20	1°17'29	opposition	-2757 Sep 30 j 07:34	14° \mathbb{H} 58'43	-1°48'30
morning rise	-2763 Oct 03 j 19:24	9° \mathbb{M} 04'25		direct	-2757 Nov 27 j 12:08	10° \mathbb{H} 00'39	
retrograde	-2762 Feb 02 j 21:59	26° \mathbb{M} 30'13		evening set	-2756 Apr 01 j 18:40	29° \mathbb{H} 09'32	
opposition	-2762 Apr 04 j 20:58	21° \mathbb{M} 38'29	1°41'58		-2756 Apr 05 j 10:30	0° \mathbb{Y}	
min. Earth dist.	-2762 Apr 06 j 04:38	21° \mathbb{M} 28'26	4.31802 AU				
direct	-2762 Jun 06 j 03:21	16° \mathbb{M} 39'57		conjunction	-2756 Apr 15 j 12:34	2° \mathbb{Y} 19'38	-1°00'36
	-2762 Sep 18 j 04:15	0° $\underline{\Delta}$		minimum elong	-2756 Apr 15 j 12:38	2° \mathbb{Y} 19'40	1°00'36
evening set	-2762 Oct 09 j 18:44	4° $\underline{\Delta}$ 46'18		max. Earth dist.	-2756 Apr 17 j 09:12	2° \mathbb{Y} 45'24	6.10947 AU
max. Earth dist.	-2762 Oct 20 j 15:58	7° $\underline{\Delta}$ 14'45	6.26446 AU	morning rise	-2756 Apr 29 j 07:48	5° \mathbb{Y} 30'09	
				retrograde	-2756 Sep 04 j 01:42	24° \mathbb{Y} 38'01	
conjunction	-2762 Oct 22 j 07:57	7° $\underline{\Delta}$ 37'33	0°56'18	opposition	-2756 Nov 02 j 11:24	19° \mathbb{Y} 34'20	-1°03'46
minimum elong	-2762 Oct 22 j 08:00	7° $\underline{\Delta}$ 37'35	0°56'18	min. Earth dist.	-2756 Nov 01 j 12:01	19° \mathbb{Y} 42'18	4.16764 AU
morning rise	-2762 Nov 03 j 20:47	10° $\underline{\Delta}$ 28'46		direct	-2756 Dec 31 j 16:28	14° \mathbb{Y} 33'12	
retrograde	-2761 Mar 08 j 19:56	28° $\underline{\Delta}$ 42'14			-2755 Apr 23 j 02:16	0° \mathbb{B}	
opposition	-2761 May 08 j 21:51	23° $\underline{\Delta}$ 48'41	0°56'35	evening set	-2755 May 07 j 18:25	3° \mathbb{B} 14'22	
min. Earth dist.	-2761 May 09 j 21:13	23° $\underline{\Delta}$ 41'13	4.20573 AU				
direct	-2761 Jul 09 j 02:48	18° $\underline{\Delta}$ 52'54		conjunction	-2755 May 21 j 12:39	6° \mathbb{B} 19'28	-0°22'20
	-2761 Oct 08 j 16:16	0° \mathbb{M}		minimum elong	-2755 May 21 j 12:41	6° \mathbb{B} 19'29	0°22'17
evening set	-2761 Nov 10 j 22:04	7° \mathbb{M} 23'57		max. Earth dist.	-2755 May 22 j 16:47	6° \mathbb{B} 35'16	6.22811 AU
				morning rise	-2755 Jun 04 j 05:46	9° \mathbb{B} 23'51	
conjunction	-2761 Nov 23 j 14:19	10° \mathbb{M} 21'23	0°16'57		-2755 Jun 30 j 01:16	15° \mathbb{B}	
minimum elong	-2761 Nov 23 j 14:20	10° \mathbb{M} 21'24	0°16'53	retrograde	-2755 Oct 06 j 09:58	27° \mathbb{B} 29'58	
max. Earth dist.	-2761 Nov 22 j 16:24	10° \mathbb{M} 08'35	6.14625 AU	opposition	-2755 Dec 04 j 22:58	22° \mathbb{B} 29'48	-0°00'30
morning rise	-2761 Dec 06 j 07:31	13° \mathbb{M} 19'36		min. Earth dist.	-2755 Dec 04 j 12:42	22° \mathbb{B} 33'14	4.28511 AU
	-2761 Dec 13 j 13:14	15° \mathbb{M}		asc. node	-2755 Dec 08 j 00:28	22° \mathbb{B} 05'11	
	-2760 Mar 02 j 14:26	0° \mathbb{Z}		direct	-2754 Feb 03 j 10:40	17° \mathbb{B} 26'47	
retrograde	-2760 Apr 12 j 17:32	2° \mathbb{Z} 32'24			-2754 May 15 j 10:20	0° \mathbb{H}	
desc. node	-2760 Apr 16 j 14:26	2° \mathbb{Z} 30'59		evening set	-2754 Jun 11 j 01:32	5° \mathbb{H} 40'05	
	-2760 May 24 j 05:07	30° \mathbb{R} \mathbb{M}					
opposition	-2760 Jun 12 j 14:58	27° \mathbb{M} 35'41	-0°10'05	conjunction	-2754 Jun 24 j 14:02	8° \mathbb{H} 38'21	0°21'43
min. Earth dist.	-2760 Jun 12 j 22:27	27° \mathbb{M} 33'16	4.09002 AU	minimum elong	-2754 Jun 24 j 14:00	8° \mathbb{H} 38'20	0°21'47
direct	-2760 Aug 11 j 11:10	22° \mathbb{M} 42'05		max. Earth dist.	-2754 Jun 24 j 15:18	8° \mathbb{H} 39'03	6.33575 AU
	-2760 Oct 21 j 01:45	0° \mathbb{Z}		morning rise	-2754 Jul 08 j 00:07	11° \mathbb{H} 35'13	
evening set	-2760 Dec 13 j 19:11	11° \mathbb{Z} 41'02		retrograde	-2754 Nov 06 j 11:54	28° \mathbb{H} 54'24	
				opposition	-2753 Jan 05 j 07:47	23° \mathbb{H} 58'08	0°59'58
conjunction	-2760 Dec 26 j 17:01	14° \mathbb{Z} 45'22	-0°29'39	min. Earth dist.	-2753 Jan 05 j 14:49	23° \mathbb{H} 55'49	4.37502 AU
minimum elong	-2760 Dec 26 j 16:59	14° \mathbb{Z} 45'20	0°29'43	direct	-2753 Mar 08 j 01:56	18° \mathbb{H} 54'34	
max. Earth dist.	-2760 Dec 26 j 19:22	14° \mathbb{Z} 46'46	6.04376 AU		-2753 Jun 11 j 01:08	0° \mathbb{E}	
morning rise	-2759 Jan 08 j 17:38	17° \mathbb{Z} 51'16		evening set	-2753 Jul 13 j 16:29	6° \mathbb{E} 48'25	
	-2759 Mar 05 j 12:32	0° \mathbb{Z}					
retrograde	-2759 May 20 j 00:11	7° \mathbb{Z} 56'20		conjunction	-2753 Jul 26 j 20:21	9° \mathbb{E} 40'25	0°58'05
opposition	-2759 Jul 19 j 11:37	2° \mathbb{Z} 55'40	-1°16'13	minimum elong	-2753 Jul 26 j 20:18	9° \mathbb{E} 40'24	0°58'10
min. Earth dist.	-2759 Jul 18 j 22:52	2° \mathbb{Z} 59'53	4.01104 AU	max. Earth dist.	-2753 Jul 25 j 22:55	9° \mathbb{E} 28'43	6.40064 AU
	-2759 Aug 12 j 05:27	30° \mathbb{R} \mathbb{Z}		morning rise	-2753 Aug 08 j 20:48	12° \mathbb{E} 30'45	
direct	-2759 Sep 16 j 00:59	28° \mathbb{Z} 02'26		retrograde	-2753 Dec 07 j 01:26	29° \mathbb{E} 27'32	
	-2759 Oct 20 j 12:52	0° \mathbb{Z}		opposition	-2752 Feb 05 j 08:20	24° \mathbb{E} 34'21	1°42'00
evening set	-2758 Jan 18 j 14:15	17° \mathbb{Z} 22'51		min. Earth dist.	-2752 Feb 06 j 05:06	24° \mathbb{E} 27'39	4.41211 AU
				direct	-2752 Apr 07 j 20:33	19° \mathbb{E} 31'38	
conjunction	-2758 Jan 31 j 19:28	20° \mathbb{Z} 32'30	-1°06'33		-2752 Jul 09 j 00:29	0° Ω	
minimum elong	-2758 Jan 31 j 19:26	20° \mathbb{Z} 32'28	1°06'37	evening set	-2752 Aug 13 j 02:18	7° Ω 18'10	
max. Earth dist.	-2758 Feb 02 j 01:58	20° \mathbb{Z} 50'46	5.99494 AU	max. Earth dist.	-2752 Aug 24 j 07:02	9° Ω 45'13	6.40593 AU
morning rise	-2758 Feb 14 j 03:52	23° \mathbb{Z} 43'54					
	-2758 Mar 13 j 06:23	0° \approx		conjunction	-2752 Aug 25 j 21:32	10° Ω 06'22	1°17'45
retrograde	-2758 Jun 26 j 12:00	14° \approx 10'07		minimum elong	-2752 Aug 25 j 21:30	10° Ω 06'21	1°17'49
min. Earth dist.	-2758 Aug 24 j 08:17	9° \approx 14'57	3.99935 AU	morning rise	-2752 Sep 07 j 13:54	12° Ω 53'12	
opposition	-2758 Aug 25 j 10:27	9° \approx 06'07	-1°54'29		-2752 Sep 17 j 08:01	15° Ω	
direct	-2758 Oct 22 j 09:41	4° \approx 11'10		retrograde	-2751 Jan 06 j 04:05	29° Ω 54'24	
	-2757 Jan 17 j 13:34	15° \approx		opposition	-2751 Mar 07 j 20:11	25° Ω 02'46	1°55'57
evening set	-2757 Feb 24 j 15:59	23° \approx 35'48		min. Earth dist.	-2751 Mar 09 j 03:09	24° Ω 52'54	4.38645 AU
				direct	-2751 May 09 j 13:25	20° Ω 01'57	
conjunction	-2757 Mar 10 j 04:37	26° \approx 47'34	-1°18'18		-2751 Aug 06 j 10:23	0° \mathbb{M}	

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Attention, astronomical year style is used: The year -2751 in astronomical counting style is the year 2752 BCE in historical counting style.

evening set	-2751 Sep 12 j 23:20	7°♎53'56		evening set	-2746 Dec 26 j 15:37	15°♏	
max. Earth dist.	-2751 Sep 23 j 16:46	10°♎17'11	6.35036 AU		-2745 Mar 01 j 21:49	28°♏46'28	
					-2745 Mar 07 j 02:57	0°♏	
conjunction	-2751 Sep 25 j 13:27	10°♎42'07	1°15'49	conjunction	-2745 Mar 15 j 11:19	1°♏58'10	-1°17'30
minimum elong	-2751 Sep 25 j 13:29	10°♎42'08	1°15'50	minimum elong	-2745 Mar 15 j 11:20	1°♏58'10	1°17'31
morning rise	-2751 Oct 08 j 01:46	13°♎29'33		max. Earth dist.	-2745 Mar 17 j 11:13	2°♏26'24	6.03033 AU
	-2750 Jan 12 j 20:22	0°♎		morning rise	-2745 Mar 29 j 03:36	5°♏11'06	
retrograde	-2750 Feb 07 j 11:23	1°♎00'32		retrograde	-2745 Aug 06 j 16:30	25°♏07'28	
	-2750 Mar 05 j 05:12	30°♎		min. Earth dist.	-2745 Oct 03 j 22:54	20°♏12'41	4.07456 AU
opposition	-2750 Apr 09 j 11:43	26°♎08'35	1°37'23	opposition	-2745 Oct 05 j 05:22	20°♏02'15	-1°44'09
min. Earth dist.	-2750 Apr 10 j 18:33	25°♎58'47	4.30434 AU	direct	-2745 Dec 02 j 13:28	15°♏03'43	
direct	-2750 Jun 10 j 15:04	21°♎10'21			-2744 Mar 19 j 12:46	0°♏	
	-2750 Aug 31 j 07:00	0°♎		evening set	-2744 Apr 06 j 21:23	4°♏08'06	
evening set	-2750 Oct 14 j 03:52	9°♎19'40					
max. Earth dist.	-2750 Oct 25 j 04:05	11°♎50'19	6.24843 AU	conjunction	-2744 Apr 20 j 15:45	7°♏17'32	-0°56'10
				minimum elong	-2744 Apr 20 j 15:49	7°♏17'34	0°56'09
conjunction	-2750 Oct 26 j 17:24	12°♎11'40	0°51'44	max. Earth dist.	-2744 Apr 22 j 12:39	7°♏43'20	6.12816 AU
minimum elong	-2750 Oct 26 j 17:27	12°♎11'42	0°51'44	morning rise	-2744 May 04 j 10:51	10°♏27'10	
morning rise	-2750 Nov 08 j 06:28	15°♎03'42		retrograde	-2744 Sep 08 j 15:39	29°♏24'53	
	-2749 Jan 24 j 11:42	0°♎		min. Earth dist.	-2744 Nov 06 j 03:29	24°♏29'14	4.18795 AU
retrograde	-2749 Mar 13 j 17:05	3°♎25'04		opposition	-2744 Nov 07 j 01:58	24°♏21'36	-0°55'33
	-2749 May 02 j 00:03	30°♎		direct	-2743 Jan 05 j 10:37	19°♏20'09	
opposition	-2749 May 13 j 18:31	28°♎31'11	0°48'12		-2743 Apr 05 j 10:20	0°♏	
min. Earth dist.	-2749 May 14 j 17:00	28°♎23'59	4.18827 AU	evening set	-2743 May 12 j 14:49	7°♏55'44	
direct	-2749 Jul 13 j 19:53	23°♎35'45					
	-2749 Sep 18 j 16:31	0°♎		conjunction	-2743 May 26 j 08:21	10°♏59'43	-0°16'15
evening set	-2749 Nov 15 j 12:23	12°♎10'57		minimum elong	-2743 May 26 j 08:22	10°♏59'44	0°16'13
max. Earth dist.	-2749 Nov 27 j 08:44	14°♎57'25	6.12892 AU	max. Earth dist.	-2743 May 27 j 07:39	11°♏12'45	6.24834 AU
	-2749 Nov 27 j 13:09	15°♎		morning rise	-2743 Jun 09 j 00:50	14°♏02'55	
conjunction	-2749 Nov 28 j 05:09	15°♎09'23	0°10'34		-2743 Jun 13 j 08:04	15°♏	
minimum elong	-2749 Nov 28 j 05:10	15°♎09'23	0°10'31		-2743 Sep 05 j 01:03	0°♏	
behind sun begin	-2749 Nov 27 j 22:51	15°♎05'42		retrograde	-2743 Oct 10 j 17:28	2°♏00'01	
behind sun end	-2749 Nov 28 j 11:29	15°♎13'05		asc. node	-2743 Oct 18 j 22:53	1°♏53'15	
morning rise	-2749 Dec 10 j 23:26	18°♎08'46			-2743 Nov 15 j 05:52	30°♎	
	-2748 Feb 04 j 08:09	0°♎		opposition	-2743 Dec 09 j 07:43	27°♏00'21	0°08'23
desc. node	-2748 Feb 25 j 18:08	3°♎31'06		min. Earth dist.	-2743 Dec 09 j 00:24	27°♏02'48	4.30341 AU
retrograde	-2748 Apr 17 j 20:02	7°♎30'18		direct	-2742 Feb 08 j 01:00	21°♏57'08	
opposition	-2748 Jun 17 j 16:54	2°♎33'02	-0°19'58		-2742 Apr 26 j 22:52	0°♏	
min. Earth dist.	-2748 Jun 17 j 21:00	2°♎31'42	4.07433 AU	evening set	-2742 Jun 15 j 14:31	10°♏05'53	
	-2748 Jul 08 j 08:31	30°♎					
direct	-2748 Aug 16 j 07:40	27°♎39'34		conjunction	-2742 Jun 29 j 02:04	13°♏03'05	0°27'22
	-2748 Sep 23 j 15:55	0°♎		minimum elong	-2742 Jun 29 j 02:02	13°♏03'04	0°27'27
evening set	-2748 Dec 18 j 16:33	16°♎42'52		max. Earth dist.	-2742 Jun 29 j 00:50	13°♏02'24	6.35069 AU
				morning rise	-2742 Jul 12 j 10:42	15°♏58'47	
conjunction	-2748 Dec 31 j 15:29	19°♎48'11	-0°35'48		-2742 Sep 25 j 13:38	0°♏	
minimum elong	-2748 Dec 31 j 15:27	19°♎48'09	0°35'53	retrograde	-2742 Nov 10 j 14:55	3°♏12'34	
max. Earth dist.	-2748 Dec 31 j 23:04	19°♎52'42	6.03129 AU		-2742 Dec 27 j 03:32	30°♎	
morning rise	-2747 Jan 13 j 17:03	22°♎55'05		opposition	-2741 Jan 09 j 13:13	28°♏16'48	1°07'01
	-2747 Feb 13 j 13:49	0°♏		min. Earth dist.	-2741 Jan 09 j 21:58	28°♏13'56	4.38561 AU
retrograde	-2747 May 25 j 07:45	13°♏06'11		direct	-2741 Mar 12 j 10:01	23°♏13'19	
opposition	-2747 Jul 24 j 16:21	8°♏04'59	-1°23'51		-2741 May 23 j 01:59	0°♏	
min. Earth dist.	-2747 Jul 24 j 02:02	8°♏09'45	4.00336 AU	evening set	-2741 Jul 18 j 00:14	11°♏04'53	
direct	-2747 Sep 21 j 03:12	3°♏11'41		max. Earth dist.	-2741 Jul 30 j 00:27	13°♏41'48	6.40583 AU
evening set	-2746 Jan 23 j 17:58	22°♏34'30					
				conjunction	-2741 Jul 31 j 02:40	13°♏56'07	1°01'52
conjunction	-2746 Feb 06 j 00:12	25°♏44'44	-1°09'58	minimum elong	-2741 Jul 31 j 02:37	13°♏56'05	1°01'57
minimum elong	-2746 Feb 06 j 00:09	25°♏44'42	1°10'01	morning rise	-2741 Aug 13 j 02:00	16°♏45'46	
max. Earth dist.	-2746 Feb 07 j 09:53	26°♏04'54	5.99278 AU		-2741 Oct 22 j 07:45	0°♏	
morning rise	-2746 Feb 19 j 09:49	28°♏56'43		retrograde	-2741 Dec 11 j 06:43	3°♏41'35	
	-2746 Feb 23 j 20:42	0°♏			-2740 Jan 31 j 06:17	30°♎	
	-2746 May 08 j 15:42	15°♏		opposition	-2740 Feb 09 j 13:56	28°♏48'45	1°45'40
retrograde	-2746 Jul 01 j 16:14	19°♏22'38		min. Earth dist.	-2740 Feb 10 j 13:54	28°♏41'02	4.41172 AU
	-2746 Aug 25 j 10:14	15°♏		direct	-2740 Apr 12 j 04:52	23°♏46'12	
min. Earth dist.	-2746 Aug 29 j 08:53	14°♏28'03	4.00357 AU		-2740 Jun 19 j 18:07	0°♏	
opposition	-2746 Aug 30 j 13:35	14°♏18'20	-1°56'25	evening set	-2740 Aug 17 j 07:17	11°♏33'12	
direct	-2746 Oct 27 j 11:25	9°♏23'03		max. Earth dist.	-2740 Aug 28 j 09:23	13°♏59'04	6.39977 AU

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Attention, astronomical year style is used: The year -2740 in astronomical counting style is the year 2741 BCE in historical counting style.

conjunction	-2740 Aug 30 j 01:46	14°♏21'17	1°18'47	minimum elong	-2734 Feb 11 j 06:50	1°♏01'30	1°12'55
minimum elong	-2740 Aug 30 j 01:45	14°♏21'16	1°18'50	max. Earth dist.	-2734 Feb 12 j 19:48	1°♏23'36	5.99487 AU
	-2740 Sep 02 j 00:09	15°♏		morning rise	-2734 Feb 24 j 17:28	4°♏13'48	
morning rise	-2740 Sep 11 j 17:18	17°♏08'02			-2734 Apr 14 j 04:14	15°♏	
	-2740 Nov 17 j 16:37	0°♏		retrograde	-2734 Jul 06 j 21:03	24°♏37'21	
retrograde	-2739 Jan 10 j 10:58	4°♏12'46		min. Earth dist.	-2734 Sep 03 j 11:32	19°♏42'42	4.01179 AU
	-2739 Mar 07 j 03:01	30°♏♏		opposition	-2734 Sep 04 j 17:02	19°♏32'41	-1°57'23
opposition	-2739 Mar 12 j 05:04	29°♏21'13	1°55'21		-2734 Oct 17 j 18:20	15°♏	
min. Earth dist.	-2739 Mar 13 j 12:10	29°♏11'18	4.37506 AU	direct	-2734 Nov 01 j 16:16	14°♏36'55	
direct	-2739 May 13 j 19:58	24°♏20'42			-2734 Nov 16 j 14:21	15°♏	
	-2739 Jul 17 j 10:24	0°♏			-2733 Feb 17 j 23:51	0°♏	
evening set	-2739 Sep 17 j 05:04	12°♏15'46		evening set	-2733 Mar 07 j 03:55	3°♏57'40	
max. Earth dist.	-2739 Sep 27 j 22:30	14°♏39'34	6.33456 AU				
				conjunction	-2733 Mar 20 j 18:23	7°♏09'08	-1°16'05
conjunction	-2739 Sep 29 j 18:53	15°♏04'27	1°13'45	minimum elong	-2733 Mar 20 j 18:25	7°♏09'09	1°16'07
minimum elong	-2739 Sep 29 j 18:55	15°♏04'28	1°13'46	max. Earth dist.	-2733 Mar 22 j 20:25	7°♏38'32	6.04370 AU
morning rise	-2739 Oct 12 j 07:05	17°♏52'29		morning rise	-2733 Apr 03 j 11:10	10°♏21'41	
	-2739 Dec 11 j 19:05	0°♏			-2733 Aug 01 j 15:19	0°♏	
retrograde	-2738 Feb 12 j 03:23	5°♏30'55		retrograde	-2733 Aug 11 j 13:58	0°♏09'49	
opposition	-2738 Apr 14 j 03:00	0°♏38'52	1°32'17		-2733 Aug 21 j 10:54	30°♏♏	
min. Earth dist.	-2738 Apr 15 j 10:17	0°♏28'56	4.28498 AU	min. Earth dist.	-2733 Oct 08 j 20:10	25°♏14'58	4.09148 AU
	-2738 Apr 19 j 05:33	30°♏♏		opposition	-2733 Oct 10 j 02:08	25°♏04'44	-1°39'04
direct	-2738 Jun 15 j 04:03	25°♏41'04		direct	-2733 Dec 07 j 12:31	20°♏05'46	
	-2738 Aug 09 j 02:02	0°♏			-2732 Mar 01 j 00:30	0°♏	
evening set	-2738 Oct 18 j 13:45	13°♏55'20		evening set	-2732 Apr 11 j 23:34	9°♏05'20	
max. Earth dist.	-2738 Oct 29 j 14:55	16°♏27'17	6.22720 AU				
				conjunction	-2732 Apr 25 j 17:58	12°♏14'00	-0°51'21
conjunction	-2738 Oct 31 j 03:34	16°♏48'21	0°46'50	minimum elong	-2732 Apr 25 j 18:02	12°♏14'02	0°51'19
minimum elong	-2738 Oct 31 j 03:36	16°♏48'22	0°46'47	max. Earth dist.	-2732 Apr 27 j 11:12	12°♏37'35	6.14704 AU
morning rise	-2738 Nov 12 j 17:20	19°♏41'33		morning rise	-2732 May 09 j 13:10	15°♏22'47	
	-2738 Dec 31 j 02:27	0°♏			-2732 Jul 22 j 14:31	0°♏	
retrograde	-2737 Mar 18 j 15:36	8°♏12'52		retrograde	-2732 Sep 13 j 04:18	4°♏10'47	
opposition	-2737 May 18 j 17:02	3°♏18'35	0°39'23		-2732 Nov 05 j 05:42	30°♏♏	
min. Earth dist.	-2737 May 19 j 12:19	3°♏12'24	4.16678 AU	opposition	-2732 Nov 11 j 15:58	29°♏07'54	-0°47'00
	-2737 Jun 16 j 01:54	30°♏♏		min. Earth dist.	-2732 Nov 10 j 19:28	29°♏14'51	4.20689 AU
direct	-2737 Jul 18 j 12:24	28°♏23'32		direct	-2731 Jan 10 j 05:39	24°♏06'05	
	-2737 Aug 19 j 16:02	0°♏			-2731 Mar 15 j 11:50	0°♏	
	-2737 Nov 11 j 06:46	15°♏		evening set	-2731 May 17 j 10:32	12°♏36'50	
evening set	-2737 Nov 20 j 05:12	17°♏04'26			-2731 May 28 j 04:09	15°♏	
conjunction	-2737 Dec 02 j 22:51	20°♏04'04	0°04'01	conjunction	-2731 May 31 j 03:37	15°♏39'50	-0°10'05
minimum elong	-2737 Dec 02 j 22:52	20°♏04'05	0°03'57	minimum elong	-2731 May 31 j 03:37	15°♏39'51	0°10'02
behind sun begin	-2737 Dec 02 j 14:56	19°♏59'26		behind sun begin	-2731 May 30 j 21:00	15°♏36'10	
behind sun end	-2737 Dec 03 j 06:48	20°♏08'44		behind sun end	-2731 May 31 j 10:15	15°♏43'31	
max. Earth dist.	-2737 Dec 02 j 07:25	19°♏54'59	6.10927 AU	max. Earth dist.	-2731 Jun 01 j 00:20	15°♏51'23	6.26609 AU
morning rise	-2737 Dec 15 j 18:01	23°♏04'45		morning rise	-2731 Jun 13 j 19:04	18°♏41'53	
desc. node	-2736 Jan 05 j 08:42	27°♏48'52			-2731 Aug 08 j 13:33	0°♏	
	-2736 Jan 15 j 07:27	0°♏		asc. node	-2731 Aug 29 j 05:40	3°♏10'52	
retrograde	-2736 Apr 23 j 03:59	12°♏35'46		retrograde	-2731 Oct 15 j 01:39	6°♏31'13	
opposition	-2736 Jun 22 j 21:43	7°♏37'58	-0°29'55	opposition	-2731 Dec 13 j 16:45	1°♏32'09	0°17'15
min. Earth dist.	-2736 Jun 22 j 23:33	7°♏37'22	4.05834 AU	min. Earth dist.	-2731 Dec 13 j 11:44	1°♏33'49	4.31858 AU
direct	-2736 Aug 21 j 08:12	2°♏44'41			-2731 Dec 25 j 09:51	30°♏♏	
evening set	-2736 Dec 23 j 16:58	21°♏52'17		direct	-2730 Feb 12 j 14:25	26°♏28'49	
					-2730 Apr 03 j 01:24	0°♏	
conjunction	-2735 Jan 05 j 16:52	24°♏58'31	-0°41'48	evening set	-2730 Jun 20 j 04:26	14°♏34'10	
minimum elong	-2735 Jan 05 j 16:49	24°♏58'30	0°41'53				
max. Earth dist.	-2735 Jan 06 j 04:32	25°♏05'30	6.02035 AU	conjunction	-2730 Jul 03 j 14:41	17°♏30'24	0°32'56
morning rise	-2735 Jan 18 j 19:42	28°♏06'26		minimum elong	-2730 Jul 03 j 14:38	17°♏30'23	0°33'00
	-2735 Jan 26 j 20:02	0°♏		max. Earth dist.	-2730 Jul 03 j 08:05	17°♏26'48	6.36205 AU
retrograde	-2735 May 30 j 15:12	18°♏22'21		morning rise	-2730 Jul 16 j 22:11	20°♏25'09	
opposition	-2735 Jul 29 j 23:05	13°♏20'36	-1°30'53		-2730 Sep 02 j 00:35	0°♏	
min. Earth dist.	-2735 Jul 29 j 04:57	13°♏26'39	3.99896 AU	retrograde	-2730 Nov 14 j 21:08	7°♏34'47	
direct	-2735 Sep 26 j 05:53	8°♏27'09		opposition	-2729 Jan 13 j 20:15	2°♏39'29	1°13'50
evening set	-2734 Jan 28 j 23:39	27°♏50'58		min. Earth dist.	-2729 Jan 14 j 08:05	2°♏35'37	4.39272 AU
	-2734 Feb 07 j 00:01	0°♏			-2729 Feb 04 j 07:17	30°♏♏	
				direct	-2729 Mar 16 j 21:05	27°♏35'58	
conjunction	-2734 Feb 11 j 06:52	1°♏01'31	-1°12'51		-2729 Apr 26 j 18:42	0°♏	

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Attention, astronomical year style is used: The year -2729 in astronomical counting style is the year 2730 BCE in historical counting style.

evening set	-2729 Jul 22 j 09:32	15° \mathfrak{D} 26'17		minimum elong	-2723 Jan 10 j 17:04	0° \mathfrak{Z} 04'05	0°47'26
max. Earth dist.	-2729 Aug 03 j 07:11	18° \mathfrak{D} 01'48	6.40806 AU		-2723 Jan 10 j 10:15	0° \mathfrak{Z}	
				max. Earth dist.	-2723 Jan 11 j 08:52	0° \mathfrak{Z} 13'33	6.01541 AU
conjunction	-2729 Aug 04 j 10:56	18° \mathfrak{D} 16'57	1°05'24	morning rise	-2723 Jan 23 j 20:56	3° \mathfrak{Z} 12'40	
minimum elong	-2729 Aug 04 j 10:53	18° \mathfrak{D} 16'56	1°05'29	retrograde	-2723 Jun 04 j 20:04	23° \mathfrak{Z} 30'56	
morning rise	-2729 Aug 17 j 08:54	21° \mathfrak{D} 06'00		min. Earth dist.	-2723 Aug 03 j 06:36	18° \mathfrak{Z} 35'19	3.99945 AU
	-2729 Sep 29 j 22:38	0° \mathfrak{Q}		opposition	-2723 Aug 04 j 02:31	18° \mathfrak{Z} 28'39	-1°37'00
retrograde	-2729 Dec 15 j 12:22	8° \mathfrak{Q} 01'44		direct	-2723 Oct 01 j 08:37	13° \mathfrak{Z} 34'58	
opposition	-2728 Feb 13 j 22:02	3° \mathfrak{Q} 09'11	1°48'52		-2722 Jan 21 j 10:58	0° \mathfrak{X}	
min. Earth dist.	-2728 Feb 14 j 22:55	3° \mathfrak{Q} 01'11	4.40922 AU	evening set	-2722 Feb 03 j 02:19	2° \mathfrak{X} 58'19	
	-2728 Mar 11 j 11:47	30° \mathfrak{R} \mathfrak{D}					
direct	-2728 Apr 16 j 13:08	28° \mathfrak{D} 06'52		conjunction	-2722 Feb 16 j 10:38	6° \mathfrak{X} 09'03	-1°15'04
	-2728 May 22 j 18:59	0° \mathfrak{Q}		minimum elong	-2722 Feb 16 j 10:36	6° \mathfrak{X} 09'02	1°15'08
	-2728 Aug 17 j 10:16	15° \mathfrak{Q}		max. Earth dist.	-2722 Feb 18 j 03:20	6° \mathfrak{X} 33'20	6.00056 AU
evening set	-2728 Aug 21 j 14:42	15° \mathfrak{Q} 54'42		morning rise	-2722 Mar 01 j 22:04	9° \mathfrak{X} 21'25	
max. Earth dist.	-2728 Sep 01 j 13:36	18° \mathfrak{Q} 19'11	6.39255 AU		-2722 Mar 26 j 08:15	15° \mathfrak{X}	
				retrograde	-2722 Jul 11 j 21:43	29° \mathfrak{X} 41'07	
conjunction	-2728 Sep 03 j 08:11	18° \mathfrak{Q} 42'40	1°19'26	min. Earth dist.	-2722 Sep 08 j 10:09	24° \mathfrak{X} 46'28	4.02219 AU
minimum elong	-2728 Sep 03 j 08:10	18° \mathfrak{Q} 42'40	1°19'28	opposition	-2722 Sep 09 j 16:06	24° \mathfrak{X} 36'17	-1°57'23
morning rise	-2728 Sep 15 j 23:07	21° \mathfrak{Q} 29'27		direct	-2722 Nov 06 j 15:37	19° \mathfrak{X} 40'09	
	-2728 Oct 26 j 23:23	0° \mathfrak{R}			-2721 Jan 30 j 22:48	0° \mathfrak{X}	
retrograde	-2727 Jan 14 j 23:13	8° \mathfrak{R} 37'59		evening set	-2721 Mar 12 j 06:03	8° \mathfrak{X} 57'52	
opposition	-2727 Mar 16 j 17:14	3° \mathfrak{R} 46'29	1°54'06				
min. Earth dist.	-2727 Mar 18 j 01:51	3° \mathfrak{R} 36'06	4.36362 AU	conjunction	-2721 Mar 25 j 21:05	12° \mathfrak{X} 09'00	-1°14'09
	-2727 Apr 19 j 10:45	30° \mathfrak{R} \mathfrak{Q}		minimum elong	-2721 Mar 25 j 21:08	12° \mathfrak{X} 09'02	1°14'11
direct	-2727 May 18 j 08:11	28° \mathfrak{Q} 46'19		max. Earth dist.	-2721 Mar 27 j 21:20	12° \mathfrak{X} 37'14	6.05754 AU
	-2727 Jun 16 j 04:43	0° \mathfrak{R}		morning rise	-2721 Apr 08 j 14:36	15° \mathfrak{X} 21'11	
evening set	-2727 Sep 21 j 13:19	16° \mathfrak{R} 44'04			-2721 Jun 19 j 05:13	0° \mathfrak{Y}	
max. Earth dist.	-2727 Oct 02 j 07:04	19° \mathfrak{R} 08'32	6.31990 AU	retrograde	-2721 Aug 16 j 05:49	5° \mathfrak{Y} 01'22	
				opposition	-2721 Oct 14 j 18:43	29° \mathfrak{X} 56'28	-1°33'27
conjunction	-2727 Oct 04 j 03:01	19° \mathfrak{R} 33'15	1°11'12	min. Earth dist.	-2721 Oct 13 j 13:31	0° \mathfrak{Y} 06'26	4.10719 AU
minimum elong	-2727 Oct 04 j 03:03	19° \mathfrak{R} 33'17	1°11'14		-2721 Oct 14 j 08:21	30° \mathfrak{R} \mathfrak{X}	
morning rise	-2727 Oct 16 j 15:08	22° \mathfrak{R} 21'53		direct	-2721 Dec 12 j 08:05	24° \mathfrak{X} 57'03	
	-2727 Nov 21 j 06:47	0° \mathfrak{Q}			-2720 Feb 08 j 04:55	0° \mathfrak{Y}	
retrograde	-2726 Feb 16 j 19:38	10° \mathfrak{Q} 07'13		evening set	-2720 Apr 16 j 21:46	13° \mathfrak{Y} 52'39	
opposition	-2726 Apr 18 j 20:43	5° \mathfrak{Q} 14'58	1°26'28				
min. Earth dist.	-2726 Apr 20 j 01:52	5° \mathfrak{Q} 05'42	4.26822 AU	conjunction	-2720 Apr 30 j 16:27	17° \mathfrak{Y} 00'43	-0°46'20
direct	-2726 Jun 19 j 17:04	0° \mathfrak{Q} 17'37		minimum elong	-2720 Apr 30 j 16:30	17° \mathfrak{Y} 00'45	0°46'19
evening set	-2726 Oct 23 j 01:46	18° \mathfrak{Q} 35'44		max. Earth dist.	-2720 May 02 j 07:38	17° \mathfrak{Y} 23'02	6.16353 AU
max. Earth dist.	-2726 Nov 03 j 06:24	21° \mathfrak{Q} 10'16	6.21003 AU	morning rise	-2720 May 14 j 11:21	20° \mathfrak{Y} 08'40	
					-2720 Jun 29 j 21:43	0° \mathfrak{Z}	
conjunction	-2726 Nov 04 j 15:55	21° \mathfrak{Q} 29'37	0°41'32	retrograde	-2720 Sep 17 j 16:10	8° \mathfrak{Z} 48'17	
minimum elong	-2726 Nov 04 j 15:58	21° \mathfrak{Q} 29'38	0°41'30	min. Earth dist.	-2720 Nov 15 j 08:57	3° \mathfrak{Z} 52'01	4.22245 AU
morning rise	-2726 Nov 17 j 06:14	24° \mathfrak{Q} 23'48		opposition	-2720 Nov 16 j 02:50	3° \mathfrak{Z} 45'58	-0°38'27
	-2726 Dec 12 j 07:21	0° \mathfrak{R}			-2720 Dec 17 j 19:33	30° \mathfrak{R} \mathfrak{Y}	
retrograde	-2725 Mar 23 j 17:28	13° \mathfrak{R} 03'31		direct	-2719 Jan 14 j 21:07	28° \mathfrak{Y} 43'55	
opposition	-2725 May 23 j 17:07	8° \mathfrak{R} 08'51	0°30'10		-2719 Feb 12 j 06:51	0° \mathfrak{Z}	
min. Earth dist.	-2725 May 24 j 10:48	8° \mathfrak{R} 03'10	4.15047 AU		-2719 May 12 j 04:11	15° \mathfrak{Z}	
direct	-2725 Jul 23 j 08:49	3° \mathfrak{R} 14'10		evening set	-2719 May 22 j 03:45	17° \mathfrak{Z} 11'19	
	-2725 Oct 25 j 01:56	15° \mathfrak{R}					
desc. node	-2725 Nov 15 j 03:36	19° \mathfrak{R} 42'01		conjunction	-2719 Jun 04 j 20:07	20° \mathfrak{Z} 13'30	-0°04'02
evening set	-2725 Nov 24 j 22:42	21° \mathfrak{R} 58'44		minimum elong	-2719 Jun 04 j 20:09	20° \mathfrak{Z} 13'31	0°03'58
				behind sun begin	-2719 Jun 04 j 11:57	20° \mathfrak{Z} 08'59	
conjunction	-2725 Dec 07 j 17:05	24° \mathfrak{R} 59'17	-0°02'44	behind sun end	-2719 Jun 05 j 04:21	20° \mathfrak{Z} 18'03	
minimum elong	-2725 Dec 07 j 17:05	24° \mathfrak{R} 59'18	0°02'47	max. Earth dist.	-2719 Jun 05 j 12:13	20° \mathfrak{Z} 22'26	6.27957 AU
behind sun begin	-2725 Dec 07 j 09:03	24° \mathfrak{R} 54'34		morning rise	-2719 Jun 18 j 10:53	23° \mathfrak{Z} 14'41	
behind sun end	-2725 Dec 08 j 01:07	25° \mathfrak{R} 04'01		asc. node	-2719 Jul 10 j 10:42	27° \mathfrak{Z} 59'41	
max. Earth dist.	-2725 Dec 07 j 05:10	24° \mathfrak{R} 52'16	6.09548 AU		-2719 Jul 20 j 04:24	0° \mathfrak{I}	
morning rise	-2725 Dec 20 j 13:16	28° \mathfrak{R} 01'00		retrograde	-2719 Oct 19 j 08:02	10° \mathfrak{I} 58'03	
	-2725 Dec 29 j 01:17	0° \mathfrak{Z}		opposition	-2719 Dec 18 j 00:13	5° \mathfrak{I} 59'33	0°25'49
retrograde	-2724 Apr 28 j 07:37	17° \mathfrak{Z} 39'00		min. Earth dist.	-2719 Dec 17 j 21:28	6° \mathfrak{I} 00'28	4.32917 AU
opposition	-2724 Jun 28 j 01:31	12° \mathfrak{Z} 40'39	-0°39'34	direct	-2718 Feb 17 j 01:31	0° \mathfrak{I} 56'07	
min. Earth dist.	-2724 Jun 27 j 23:24	12° \mathfrak{Z} 41'20	4.04862 AU	evening set	-2718 Jun 24 j 16:47	18° \mathfrak{I} 59'43	
direct	-2724 Aug 26 j 06:47	7° \mathfrak{Z} 47'32					
evening set	-2724 Dec 28 j 16:21	26° \mathfrak{Z} 57'17		conjunction	-2718 Jul 08 j 02:02	21° \mathfrak{I} 55'15	0°38'13
				minimum elong	-2718 Jul 08 j 01:59	21° \mathfrak{I} 55'13	0°38'17
conjunction	-2723 Jan 10 j 17:07	0° \mathfrak{Z} 04'07	-0°47'22	max. Earth dist.	-2718 Jul 07 j 16:58	21° \mathfrak{I} 50'17	6.36909 AU

Attention, astronomical year style is used: The year -2718 in astronomical counting style is the year 2719 BCE in historical counting style.

morning rise	-2718 Jul 21 j 08:11	24° Π 49'11		direct	-2712 Aug 31 j 06:00	12° X 47'17	
	-2718 Aug 14 j 17:54	0° E			-2712 Dec 25 j 04:49	0° Z	
retrograde	-2718 Nov 19 j 03:12	11° E 56'20		evening set	-2711 Jan 02 j 14:29	1° Z 59'16	
opposition	-2717 Jan 18 j 03:15	7° E 01'34	1°20'09				
min. Earth dist.	-2717 Jan 18 j 16:59	6° E 57'05	4.39598 AU	conjunction	-2711 Jan 15 j 16:19	5° Z 06'47	-0°52'34
direct	-2717 Mar 21 j 06:29	1° E 58'13		minimum elong	-2711 Jan 15 j 16:16	5° Z 06'45	0°52'38
evening set	-2717 Jul 26 j 18:46	19° E 48'22		max. Earth dist.	-2711 Jan 16 j 12:24	5° Z 18'48	6.01001 AU
max. Earth dist.	-2717 Aug 07 j 11:29	22° E 21'24	6.40715 AU	morning rise	-2711 Jan 28 j 21:08	8° Z 16'00	
				retrograde	-2711 Jun 10 j 00:33	28° Z 36'40	
conjunction	-2717 Aug 08 j 18:52	22° E 38'34	1°08'32	min. Earth dist.	-2711 Aug 08 j 06:58	23° Z 41'10	3.99862 AU
minimum elong	-2717 Aug 08 j 18:49	22° E 38'32	1°08'36	opposition	-2711 Aug 09 j 04:30	23° Z 33'57	-1°42'23
morning rise	-2717 Aug 21 j 15:52	25° E 27'13		direct	-2711 Oct 06 j 08:15	18° Z 40'00	
	-2717 Sep 12 j 00:19	0° Ω			-2710 Jan 03 j 19:39	0° \approx	
retrograde	-2717 Dec 19 j 21:00	12° Ω 23'57		evening set	-2710 Feb 08 j 04:28	8° \approx 03'39	
opposition	-2716 Feb 18 j 07:05	7° Ω 31'39	1°51'27				
min. Earth dist.	-2716 Feb 19 j 09:39	7° Ω 23'07	4.40455 AU	conjunction	-2710 Feb 21 j 13:36	11° \approx 14'37	-1°16'44
direct	-2716 Apr 20 j 23:18	2° Ω 29'33		minimum elong	-2710 Feb 21 j 13:35	11° \approx 14'36	1°16'47
	-2716 Aug 01 j 00:37	15° Ω		max. Earth dist.	-2710 Feb 23 j 06:44	11° \approx 39'06	6.00399 AU
evening set	-2716 Aug 25 j 22:29	20° Ω 18'39		morning rise	-2710 Mar 07 j 02:08	14° \approx 27'14	
max. Earth dist.	-2716 Sep 05 j 21:25	22° Ω 43'27	6.38448 AU		-2710 Mar 09 j 09:44	15° \approx	
					-2710 May 21 j 13:47	0° H	
conjunction	-2716 Sep 07 j 15:23	23° Ω 06'38	1°19'36	retrograde	-2710 Jul 16 j 20:00	4° H 43'56	
minimum elong	-2716 Sep 07 j 15:22	23° Ω 06'38	1°19'38		-2710 Sep 12 j 00:19	30° R \approx	
morning rise	-2716 Sep 20 j 05:31	25° Ω 53'27		min. Earth dist.	-2710 Sep 13 j 07:37	29° \approx 49'21	4.02960 AU
	-2716 Oct 09 j 06:05	0° P		opposition	-2710 Sep 14 j 14:23	29° \approx 38'52	-1°56'34
retrograde	-2715 Jan 19 j 10:07	13° P 05'56		direct	-2710 Nov 11 j 14:20	24° \approx 42'14	
opposition	-2715 Mar 21 j 06:12	8° P 14'26	1°52'08		-2709 Jan 09 j 03:02	0° H	
min. Earth dist.	-2715 Mar 22 j 13:53	8° P 04'22	4.35276 AU	evening set	-2709 Mar 17 j 08:31	13° H 58'12	
direct	-2715 May 22 j 18:32	3° P 14'39					
evening set	-2715 Sep 25 j 21:56	21° P 14'33		conjunction	-2709 Mar 31 j 00:28	17° H 09'13	-1°11'41
max. Earth dist.	-2715 Oct 06 j 15:53	23° P 39'39	6.30703 AU	minimum elong	-2709 Mar 31 j 00:31	17° H 09'15	1°11'42
				max. Earth dist.	-2709 Apr 02 j 01:03	17° H 37'34	6.06832 AU
conjunction	-2715 Oct 08 j 11:18	24° P 04'09	1°08'13	morning rise	-2709 Apr 13 j 18:21	20° H 21'05	
minimum elong	-2715 Oct 08 j 11:20	24° P 04'11	1°08'13		-2709 May 27 j 21:29	0° Y	
morning rise	-2715 Oct 20 j 23:33	26° P 53'20		retrograde	-2709 Aug 21 j 00:58	9° Y 54'19	
	-2715 Nov 04 j 00:03	0° $\underline{\text{A}}$		min. Earth dist.	-2709 Oct 18 j 08:38	4° Y 58'56	4.11995 AU
retrograde	-2714 Feb 21 j 14:44	14° $\underline{\text{A}}$ 44'58		opposition	-2709 Oct 19 j 11:52	4° Y 49'38	-1°27'12
opposition	-2714 Apr 23 j 15:02	9° $\underline{\text{A}}$ 52'25	1°20'03		-2709 Dec 07 j 04:12	30° R H	
min. Earth dist.	-2714 Apr 24 j 19:35	9° $\underline{\text{A}}$ 43'20	4.25385 AU	direct	-2709 Dec 17 j 05:15	29° H 49'47	
direct	-2714 Jun 24 j 08:55	4° $\underline{\text{A}}$ 55'24			-2709 Dec 27 j 06:45	0° Y	
evening set	-2714 Oct 27 j 13:14	23° $\underline{\text{A}}$ 16'15		evening set	-2708 Apr 21 j 21:20	18° Y 42'25	
max. Earth dist.	-2714 Nov 07 j 20:58	25° $\underline{\text{A}}$ 53'02	6.19541 AU				
				conjunction	-2708 May 05 j 16:04	21° Y 49'55	-0°40'57
conjunction	-2714 Nov 09 j 03:51	26° $\underline{\text{A}}$ 10'54	0°35'59	minimum elong	-2708 May 05 j 16:08	21° Y 49'57	0°40'56
minimum elong	-2714 Nov 09 j 03:53	26° $\underline{\text{A}}$ 10'56	0°35'56	max. Earth dist.	-2708 May 07 j 04:31	22° Y 10'37	6.17722 AU
morning rise	-2714 Nov 21 j 18:43	29° $\underline{\text{A}}$ 05'58		morning rise	-2708 May 19 j 10:53	24° Y 57'13	
	-2714 Nov 25 j 16:51	0° M			-2708 Jun 11 j 08:40	0° B	
	-2713 Feb 12 j 15:34	15° M		retrograde	-2708 Sep 22 j 03:34	13° B 29'19	
retrograde	-2713 Mar 28 j 15:45	17° M 53'02		opposition	-2708 Nov 20 j 15:16	8° B 27'27	-0°29'32
	-2713 May 12 j 08:17	15° R M		min. Earth dist.	-2708 Nov 19 j 22:37	8° B 33'05	4.23580 AU
opposition	-2713 May 28 j 16:05	12° M 57'53	0°20'46	direct	-2707 Jan 19 j 12:53	3° B 25'07	
min. Earth dist.	-2713 May 29 j 06:37	12° M 53'12	4.13660 AU		-2707 Apr 24 j 21:01	15° B	
direct	-2713 Jul 28 j 02:13	8° M 03'29		asc. node	-2707 May 20 j 05:09	20° B 21'15	
desc. node	-2713 Sep 25 j 09:12	13° M 16'21		evening set	-2707 May 26 j 22:39	21° B 49'46	
	-2713 Oct 05 j 09:59	15° M					
evening set	-2713 Nov 29 j 15:24	26° M 51'02		conjunction	-2707 Jun 09 j 14:19	24° B 51'10	0°02'19
				minimum elong	-2707 Jun 09 j 14:19	24° B 51'10	0°02'23
conjunction	-2713 Dec 12 j 10:27	29° M 52'24	-0°09'16	behind sun begin	-2707 Jun 09 j 06:02	24° B 46'35	
minimum elong	-2713 Dec 12 j 10:26	29° M 52'23	0°09'21	behind sun end	-2707 Jun 09 j 22:36	24° B 55'44	
behind sun begin	-2713 Dec 12 j 03:38	29° M 48'23		max. Earth dist.	-2707 Jun 10 j 03:03	24° B 58'13	6.29175 AU
behind sun end	-2713 Dec 12 j 17:13	29° M 56'24		morning rise	-2707 Jun 23 j 04:05	27° B 51'25	
max. Earth dist.	-2713 Dec 12 j 01:46	29° M 47'16	6.08349 AU		-2707 Jul 02 j 23:30	0° I	
	-2713 Dec 12 j 23:18	0° X		retrograde	-2707 Oct 23 j 18:14	15° I 29'14	
morning rise	-2713 Dec 25 j 07:34	2° X 55'02		opposition	-2707 Dec 22 j 09:59	10° I 31'21	0°34'25
retrograde	-2712 May 03 j 10:56	22° X 39'24		min. Earth dist.	-2707 Dec 22 j 09:55	10° I 31'22	4.33935 AU
opposition	-2712 Jul 03 j 03:36	17° X 40'26	-0°48'53	direct	-2706 Feb 21 j 15:42	5° I 27'55	
min. Earth dist.	-2712 Jul 02 j 23:18	17° X 41'51	4.03952 AU	evening set	-2706 Jun 29 j 07:08	23° I 29'35	

Planetary Phenomena of Jupiter from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 18

Attention, astronomical year style is used: The year -2706 in astronomical counting style is the year 2707 BCE in historical counting style.

conjunction	-2706 Jul 12 j 15:08	26° Π 24'18	0°43'25	max. Earth dist.	-2701 Dec 16 j 19:49	4° X 34'26	6.07308 AU
minimum elong	-2706 Jul 12 j 15:06	26° Π 24'17	0°43'29	morning rise	-2701 Dec 29 j 22:49	7° X 40'53	
max. Earth dist.	-2706 Jul 12 j 02:56	26° Π 17'37	6.37658 AU	retrograde	-2700 May 08 j 11:06	27° X 31'10	
morning rise	-2706 Jul 25 j 20:03	29° Π 17'25		opposition	-2700 Jul 08 j 01:57	22° X 31'47	-0°57'33
	-2706 Jul 29 j 02:31	0° O		min. Earth dist.	-2700 Jul 07 j 19:54	22° X 33'47	4.03101 AU
retrograde	-2706 Nov 23 j 10:38	16° O 21'50		direct	-2700 Sep 05 j 00:34	17° X 38'41	
opposition	-2705 Jan 22 j 12:15	11° O 27'30	1°26'10		-2700 Dec 08 j 13:14	0° Z	
min. Earth dist.	-2705 Jan 23 j 03:15	11° O 22'37	4.40085 AU	evening set	-2699 Jan 07 j 09:50	6° Z 53'16	
direct	-2705 Mar 25 j 17:32	6° O 24'17					
evening set	-2705 Jul 31 j 05:15	24° O 13'27		conjunction	-2699 Jan 20 j 12:28	10° Z 01'25	-0°57'13
max. Earth dist.	-2705 Aug 11 j 20:35	26° O 45'46	6.40919 AU	minimum elong	-2699 Jan 20 j 12:25	10° Z 01'24	0°57'17
				max. Earth dist.	-2699 Jan 21 j 09:39	10° Z 14'07	6.00397 AU
conjunction	-2705 Aug 13 j 04:12	27° O 03'04	1°11'21	morning rise	-2699 Feb 02 j 18:28	13° Z 11'24	
minimum elong	-2705 Aug 13 j 04:10	27° O 03'03	1°11'25		-2699 Apr 27 j 07:43	0° \approx	
morning rise	-2705 Aug 25 j 23:54	29° O 51'09		retrograde	-2699 Jun 14 j 23:32	3° \approx 34'56	
	-2705 Aug 26 j 16:11	0° Ω			-2699 Aug 03 j 00:41	30° R Z	
	-2705 Nov 19 j 22:53	15° Ω		min. Earth dist.	-2699 Aug 13 j 03:20	28° Z 39'41	3.99594 AU
retrograde	-2705 Dec 24 j 05:28	16° Ω 47'52		opposition	-2699 Aug 14 j 02:42	28° Z 31'49	-1°46'53
	-2704 Jan 27 j 16:57	15° R Ω		direct	-2699 Oct 11 j 04:06	23° Z 37'36	
opposition	-2704 Feb 22 j 17:26	11° Ω 55'50	1°53'26		-2699 Dec 14 j 13:50	0° \approx	
min. Earth dist.	-2704 Feb 23 j 20:35	11° Ω 47'08	4.40384 AU	evening set	-2698 Feb 13 j 04:10	13° \approx 02'49	
direct	-2704 Apr 25 j 10:10	6° Ω 54'06			-2698 Feb 21 j 09:43	15° \approx	
	-2704 Jul 13 j 16:38	15° Ω					
evening set	-2704 Aug 30 j 06:26	24° Ω 42'48		conjunction	-2698 Feb 26 j 14:33	16° \approx 14'16	-1°17'47
max. Earth dist.	-2704 Sep 10 j 02:53	27° Ω 06'30	6.38097 AU	minimum elong	-2698 Feb 26 j 14:32	16° \approx 14'15	1°17'49
				max. Earth dist.	-2698 Feb 28 j 10:08	16° \approx 40'11	6.00501 AU
conjunction	-2704 Sep 11 j 22:21	27° Ω 30'34	1°19'21	morning rise	-2698 Mar 12 j 03:55	19° \approx 27'13	
minimum elong	-2704 Sep 11 j 22:22	27° Ω 30'34	1°19'24		-2698 Apr 28 j 18:22	0° H	
	-2704 Sep 23 j 04:37	0° P		retrograde	-2698 Jul 21 j 18:54	9° H 41'57	
morning rise	-2704 Sep 24 j 12:01	0° P 17'17		min. Earth dist.	-2698 Sep 18 j 04:24	4° H 47'04	4.03424 AU
retrograde	-2703 Jan 23 j 22:32	17° P 32'23		opposition	-2698 Sep 19 j 10:23	4° H 36'50	-1°54'56
opposition	-2703 Mar 25 j 19:16	12° P 40'50	1°49'31		-2698 Nov 02 j 12:20	30° R \approx	
min. Earth dist.	-2703 Mar 27 j 03:05	12° P 30'43	4.34657 AU	direct	-2698 Nov 16 j 11:42	29° \approx 39'50	
direct	-2703 May 27 j 06:46	7° P 41'24		evening set	-2698 Nov 30 j 11:31	0° H	
evening set	-2703 Sep 30 j 05:18	25° P 41'49			-2697 Mar 22 j 09:32	18° H 55'16	
max. Earth dist.	-2703 Oct 11 j 01:21	28° P 08'21	6.29878 AU	conjunction	-2697 Apr 05 j 02:13	22° H 06'18	-1°08'44
				minimum elong	-2697 Apr 05 j 02:16	22° H 06'20	1°08'43
conjunction	-2703 Oct 12 j 18:38	28° P 31'41	1°04'53	max. Earth dist.	-2697 Apr 07 j 02:13	22° H 34'13	6.07624 AU
minimum elong	-2703 Oct 12 j 18:40	28° P 31'43	1°04'52	morning rise	-2697 Apr 18 j 20:47	25° H 18'04	
	-2703 Oct 19 j 06:44	0° $\underline{\Omega}$			-2697 May 09 j 15:00	0° Y	
morning rise	-2703 Oct 25 j 06:43	1° $\underline{\Omega}$ 21'12		retrograde	-2697 Aug 25 j 17:10	14° Y 45'25	
retrograde	-2702 Feb 26 j 05:24	19° $\underline{\Omega}$ 17'36		min. Earth dist.	-2697 Oct 23 j 00:32	9° Y 50'18	4.13035 AU
opposition	-2702 Apr 28 j 07:19	14° $\underline{\Omega}$ 24'50	1°13'14	opposition	-2697 Oct 24 j 03:49	9° Y 40'59	-1°20'25
min. Earth dist.	-2702 Apr 29 j 10:15	14° $\underline{\Omega}$ 16'16	4.24389 AU	direct	-2697 Dec 21 j 23:07	4° Y 40'45	
direct	-2702 Jun 28 j 21:14	9° $\underline{\Omega}$ 28'14		evening set	-2696 Apr 26 j 20:13	23° Y 31'15	
evening set	-2702 Oct 31 j 22:43	27° $\underline{\Omega}$ 50'37					
	-2702 Nov 10 j 06:31	0° M					
max. Earth dist.	-2702 Nov 12 j 08:00	0° M 28'43	6.18457 AU	conjunction	-2696 May 10 j 14:56	26° Y 38'14	-0°35'20
				minimum elong	-2696 May 10 j 14:59	26° Y 38'16	0°35'18
conjunction	-2702 Nov 13 j 13:31	0° M 45'51	0°30'20	max. Earth dist.	-2696 May 12 j 00:35	26° Y 57'18	6.18949 AU
minimum elong	-2702 Nov 13 j 13:33	0° M 45'52	0°30'18	morning rise	-2696 May 24 j 09:28	29° Y 44'53	
morning rise	-2702 Nov 26 j 05:03	3° M 41'39			-2696 May 25 j 12:26	0° B	
	-2701 Jan 18 j 09:19	15° M			-2696 Aug 12 j 07:38	15° B	
retrograde	-2701 Apr 02 j 12:20	22° M 35'03		retrograde	-2696 Sep 26 j 16:41	18° B 09'56	
opposition	-2701 Jun 02 j 12:03	17° M 39'26	0°11'28		-2696 Nov 11 j 00:23	15° R B	
min. Earth dist.	-2701 Jun 03 j 01:02	17° M 35'15	4.12541 AU	opposition	-2696 Nov 25 j 03:20	13° B 08'32	-0°20'29
	-2701 Jun 24 j 07:18	15° R M		min. Earth dist.	-2696 Nov 24 j 13:10	13° B 13'19	4.24859 AU
direct	-2701 Aug 01 j 18:59	12° M 45'16		direct	-2695 Jan 24 j 05:55	8° B 05'56	
desc. node	-2701 Aug 07 j 04:58	12° M 48'08		asc. node	-2695 Mar 29 j 23:27	13° B 59'35	
	-2701 Sep 08 j 15:57	15° M			-2695 Apr 04 j 23:05	15° B	
	-2701 Nov 27 j 10:22	0° X		evening set	-2695 May 31 j 16:56	26° B 27'41	
evening set	-2701 Dec 04 j 04:56	1° X 35'14					
				conjunction	-2695 Jun 14 j 07:54	29° B 28'15	0°08'30
conjunction	-2701 Dec 17 j 00:51	4° X 37'25	-0°15'33	minimum elong	-2695 Jun 14 j 07:53	29° B 28'14	0°08'34
minimum elong	-2701 Dec 17 j 00:50	4° X 37'24	0°15'37	behind sun begin	-2695 Jun 14 j 00:43	29° B 24'17	
behind sun begin	-2701 Dec 16 j 22:33	4° X 36'03		behind sun end	-2695 Jun 14 j 15:03	29° B 32'11	
behind sun end	-2701 Dec 17 j 03:07	4° X 38'45		max. Earth dist.	-2695 Jun 14 j 18:37	29° B 34'10	6.30412 AU

Attention, astronomical year style is used: The year -2695 in astronomical counting style is the year 2696 BCE in historical counting style.

	-2695 Jun 16 j 17:16	0°♄		evening set	-2689 Dec 08 j 23:38	6°♂31'01	
morning rise	-2695 Jun 27 j 20:34	2°♄27'31					
retrograde	-2695 Oct 28 j 01:07	19°♄59'32		conjunction	-2689 Dec 21 j 20:16	9°♂34'10	-0°22'00
opposition	-2695 Dec 26 j 19:01	15°♄02'03	0°42'45	minimum elong	-2689 Dec 21 j 20:15	9°♂34'09	0°22'04
min. Earth dist.	-2695 Dec 26 j 19:52	15°♄01'47	4.35033 AU	max. Earth dist.	-2689 Dec 21 j 17:30	9°♂32'31	6.05856 AU
direct	-2694 Feb 26 j 03:29	9°♄58'31		morning rise	-2688 Jan 03 j 19:28	12°♂38'48	
evening set	-2694 Jul 03 j 20:10	27°♄57'37			-2688 Apr 02 j 06:12	0°♂	
	-2694 Jul 13 j 04:48	0°♄		retrograde	-2688 May 13 j 16:05	2°♂36'22	
max. Earth dist.	-2694 Jul 16 j 11:45	0°♄43'11	6.38507 AU		-2688 Jun 24 j 07:08	30°♂♂	
				opposition	-2688 Jul 13 j 05:38	27°♂36'26	-1°06'15
conjunction	-2694 Jul 17 j 02:50	0°♄51'26	0°48'19	min. Earth dist.	-2688 Jul 12 j 20:17	27°♂39'31	4.02019 AU
minimum elong	-2694 Jul 17 j 02:47	0°♄51'24	0°48'24	direct	-2688 Sep 09 j 23:44	22°♂43'18	
morning rise	-2694 Jul 30 j 06:26	3°♄43'39			-2688 Nov 18 j 15:03	0°♂	
retrograde	-2694 Nov 27 j 18:00	20°♄45'01		evening set	-2687 Jan 12 j 11:12	12°♂01'14	
opposition	-2693 Jan 26 j 20:30	15°♄51'00	1°31'38				
min. Earth dist.	-2693 Jan 27 j 13:51	15°♄45'22	4.40607 AU	conjunction	-2687 Jan 25 j 15:05	15°♂10'11	-1°01'41
direct	-2693 Mar 30 j 05:02	10°♄47'53		minimum elong	-2687 Jan 25 j 15:02	15°♂10'09	1°01'45
evening set	-2693 Aug 04 j 13:57	28°♄35'36		max. Earth dist.	-2687 Jan 26 j 17:27	15°♂25'59	5.99795 AU
	-2693 Aug 11 j 00:56	0°♄		morning rise	-2687 Feb 07 j 22:04	18°♂20'52	
max. Earth dist.	-2693 Aug 16 j 01:18	1°♄05'50	6.41023 AU		-2687 Apr 01 j 17:00	0°♂	
				retrograde	-2687 Jun 20 j 06:21	8°♂46'42	
conjunction	-2693 Aug 17 j 11:44	1°♄24'41	1°13'45	min. Earth dist.	-2687 Aug 18 j 06:14	3°♂51'27	3.99578 AU
minimum elong	-2693 Aug 17 j 11:42	1°♄24'39	1°13'49	opposition	-2687 Aug 19 j 06:41	3°♂43'12	-1°50'46
morning rise	-2693 Aug 30 j 06:23	4°♄12'16			-2687 Sep 19 j 18:33	30°♂♂	
	-2693 Oct 23 j 11:30	15°♄		direct	-2687 Oct 16 j 06:57	28°♂48'46	
retrograde	-2693 Dec 28 j 13:14	21°♄09'27			-2687 Nov 11 j 18:22	0°♂	
opposition	-2692 Feb 27 j 02:50	16°♄17'30	1°54'49		-2686 Feb 04 j 13:11	15°♂	
min. Earth dist.	-2692 Feb 28 j 06:48	16°♄08'33	4.40067 AU	evening set	-2686 Feb 18 j 09:32	18°♂14'13	
	-2692 Mar 08 j 07:48	15°♄♄					
direct	-2692 Apr 29 j 19:31	11°♄15'57		conjunction	-2686 Mar 03 j 20:51	21°♂25'50	-1°18'18
	-2692 Jun 20 j 16:22	15°♄		minimum elong	-2686 Mar 03 j 20:51	21°♂25'50	1°18'21
evening set	-2692 Sep 03 j 13:15	29°♄05'04		max. Earth dist.	-2686 Mar 05 j 18:28	21°♂52'54	6.01074 AU
	-2692 Sep 07 j 16:56	0°♄		morning rise	-2686 Mar 17 j 11:16	24°♂38'57	
max. Earth dist.	-2692 Sep 14 j 09:41	1°♄29'02	6.37368 AU		-2686 Apr 09 j 17:10	0°♄	
				retrograde	-2686 Jul 26 j 18:55	14°♄49'00	
conjunction	-2692 Sep 16 j 04:37	1°♄52'51	1°18'40	min. Earth dist.	-2686 Sep 23 j 02:26	9°♄54'36	4.04564 AU
minimum elong	-2692 Sep 16 j 04:37	1°♄52'52	1°18'42	opposition	-2686 Sep 24 j 09:59	9°♄43'50	-1°52'24
morning rise	-2692 Sep 28 j 17:36	4°♄39'38		direct	-2686 Nov 21 j 12:03	4°♄46'26	
retrograde	-2691 Jan 28 j 10:16	21°♄58'42		evening set	-2685 Mar 27 j 13:50	23°♄58'34	
opposition	-2691 Mar 30 j 08:15	17°♄07'05	1°46'20				
min. Earth dist.	-2691 Mar 31 j 16:18	16°♄56'54	4.33544 AU	conjunction	-2685 Apr 10 j 07:02	27°♄09'07	-1°05'14
direct	-2691 May 31 j 17:51	12°♄08'00		minimum elong	-2685 Apr 10 j 07:05	27°♄09'09	1°05'15
	-2691 Oct 03 j 18:15	0°♄		max. Earth dist.	-2685 Apr 12 j 06:00	27°♄36'20	6.09240 AU
evening set	-2691 Oct 04 j 13:08	0°♄10'37			-2685 Apr 22 j 14:38	0°♄	
max. Earth dist.	-2691 Oct 15 j 08:29	2°♄37'17	6.28460 AU	morning rise	-2685 Apr 24 j 01:53	0°♄20'15	
				retrograde	-2685 Aug 30 j 10:33	19°♄38'17	
conjunction	-2691 Oct 17 j 02:18	3°♄01'02	1°01'09	opposition	-2685 Oct 28 j 20:47	14°♄34'08	-1°13'03
minimum elong	-2691 Oct 17 j 02:21	3°♄01'03	1°01'08	min. Earth dist.	-2685 Oct 27 j 19:18	14°♄42'50	4.14937 AU
morning rise	-2691 Oct 29 j 14:47	5°♄51'15		direct	-2685 Dec 26 j 21:15	9°♄33'30	
retrograde	-2690 Mar 03 j 00:01	23°♄54'47		evening set	-2684 May 01 j 18:45	28°♄18'39	
opposition	-2690 May 03 j 01:47	19°♄01'39	1°05'53		-2684 May 09 j 07:08	0°♄	
min. Earth dist.	-2690 May 04 j 03:28	18°♄53'27	4.22737 AU				
direct	-2690 Jul 03 j 12:06	14°♄05'21		conjunction	-2684 May 15 j 13:21	1°♄24'40	-0°29'32
	-2690 Oct 25 j 09:42	0°♄		minimum elong	-2684 May 15 j 13:23	1°♄24'42	0°29'29
evening set	-2690 Nov 05 j 10:33	2°♄31'30		max. Earth dist.	-2684 May 16 j 21:43	1°♄42'55	6.20992 AU
max. Earth dist.	-2690 Nov 17 j 00:10	5°♄12'39	6.16732 AU	morning rise	-2684 May 29 j 07:14	4°♄30'09	
					-2684 Jul 18 j 18:28	15°♄	
conjunction	-2690 Nov 18 j 02:03	5°♄27'43	0°24'21	retrograde	-2684 Oct 01 j 01:15	22°♄45'30	
minimum elong	-2690 Nov 18 j 02:05	5°♄27'44	0°24'18	opposition	-2684 Nov 29 j 13:43	17°♄44'37	-0°11'30
morning rise	-2690 Nov 30 j 18:13	8°♄24'34		min. Earth dist.	-2684 Nov 29 j 00:38	17°♄49'01	4.26849 AU
	-2690 Dec 30 j 03:38	15°♄			-2684 Dec 21 j 05:23	15°♄♄	
retrograde	-2689 Apr 07 j 13:18	27°♄26'37		direct	-2683 Jan 28 j 19:56	12°♄41'51	
opposition	-2689 Jun 07 j 12:05	22°♄30'34	0°01'45	asc. node	-2683 Feb 07 j 19:40	12°♄51'20	
min. Earth dist.	-2689 Jun 07 j 23:01	22°♄27'02	4.10880 AU		-2683 Mar 08 j 23:33	15°♄	
desc. node	-2689 Jun 17 j 10:38	21°♄14'19			-2683 May 31 j 21:13	0°♄	
direct	-2689 Aug 06 j 14:14	17°♄36'40		evening set	-2683 Jun 05 j 08:15	0°♄58'26	
	-2689 Nov 10 j 12:00	0°♄♂					

Planetary Phenomena of Jupiter from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 20

Attention, astronomical year style is used: The year -2683 in astronomical counting style is the year 2684 BCE in historical counting style.





























































































































conjunction	-2683 Jun 18 j 22:02	3° Π 57'48	0°14'27	opposition	-2677 Jun 12 j 14:28	27° \mathbb{M} 28'54	-0°08'09
minimum elong	-2683 Jun 18 j 22:01	3° Π 57'47	0°14'30	min. Earth dist.	-2677 Jun 12 j 21:44	27° \mathbb{M} 26'32	4.08934 AU
behind sun begin	-2683 Jun 18 j 18:39	3° Π 55'56		direct	-2677 Aug 11 j 10:56	22° \mathbb{M} 35'12	
behind sun end	-2683 Jun 19 j 01:23	3° Π 59'38			-2677 Oct 21 j 17:23	0° \mathcal{A}	
max. Earth dist.	-2683 Jun 19 j 03:47	4° Π 00'57	6.32181 AU	evening set	-2677 Dec 13 j 21:13	11° \mathcal{A} 34'54	
morning rise	-2683 Jul 02 j 09:38	6° Π 55'53					
retrograde	-2683 Nov 01 j 06:37	24° Π 21'03		conjunction	-2677 Dec 26 j 19:00	14° \mathcal{A} 39'11	-0°28'24
opposition	-2683 Dec 31 j 01:10	19° Π 24'06	0°50'32	minimum elong	-2677 Dec 26 j 18:58	14° \mathcal{A} 39'10	0°28'28
min. Earth dist.	-2683 Dec 31 j 05:29	19° Π 22'40	4.36448 AU	max. Earth dist.	-2677 Dec 26 j 22:16	14° \mathcal{A} 41'08	6.04315 AU
direct	-2682 Mar 02 j 14:45	14° Π 20'31		morning rise	-2676 Jan 08 j 19:10	17° \mathcal{A} 44'58	
	-2682 Jun 27 j 15:20	0° \mathcal{B}			-2676 Mar 05 j 03:09	0° \mathcal{B}	
evening set	-2682 Jul 08 j 05:03	2° \mathcal{B} 16'18		retrograde	-2676 May 19 j 01:33	7° \mathcal{B} 49'42	
				opposition	-2676 Jul 18 j 12:09	2° \mathcal{B} 49'10	-1°14'35
conjunction	-2682 Jul 21 j 10:34	5° \mathcal{B} 09'14	0°52'46	min. Earth dist.	-2676 Jul 18 j 00:34	2° \mathcal{B} 53'00	4.01056 AU
minimum elong	-2682 Jul 21 j 10:31	5° \mathcal{B} 09'13	0°52'50		-2676 Aug 10 j 05:55	30° \mathbb{R} \mathcal{A}	
max. Earth dist.	-2682 Jul 20 j 16:30	4° \mathcal{B} 59'22	6.39436 AU	direct	-2676 Sep 15 j 03:06	27° \mathcal{A} 55'59	
morning rise	-2682 Aug 03 j 12:44	8° \mathcal{B} 00'31			-2676 Oct 20 j 13:44	0° \mathcal{B}	
retrograde	-2682 Dec 01 j 20:12	24° \mathcal{B} 59'12		evening set	-2675 Jan 17 j 15:43	17° \mathcal{B} 16'29	
opposition	-2681 Jan 31 j 01:06	20° \mathcal{B} 05'34	1°36'25				
min. Earth dist.	-2681 Jan 31 j 19:57	19° \mathcal{B} 59'27	4.41015 AU	conjunction	-2675 Jan 30 j 20:33	20° \mathcal{B} 26'00	-1°05'43
direct	-2681 Apr 03 j 10:43	15° \mathcal{B} 02'35		minimum elong	-2675 Jan 30 j 20:30	20° \mathcal{B} 25'59	1°05'47
	-2681 Jul 26 j 15:05	0° Ω		max. Earth dist.	-2675 Feb 01 j 02:30	20° \mathcal{B} 43'57	5.99468 AU
evening set	-2681 Aug 08 j 19:05	2° Ω 49'38		morning rise	-2675 Feb 13 j 04:47	23° \mathcal{B} 37'19	
max. Earth dist.	-2681 Aug 20 j 02:47	5° Ω 18'03	6.40858 AU		-2675 Mar 12 j 19:00	0° \approx	
				retrograde	-2675 Jun 25 j 11:48	14° \approx 03'18	
conjunction	-2681 Aug 21 j 15:45	5° Ω 38'19	1°15'41	min. Earth dist.	-2675 Aug 23 j 08:13	9° \approx 08'36	3.99946 AU
minimum elong	-2681 Aug 21 j 15:43	5° Ω 38'18	1°15'44	opposition	-2675 Aug 24 j 11:36	8° \approx 59'22	-1°53'46
morning rise	-2681 Sep 03 j 09:26	8° Ω 25'35		direct	-2675 Oct 21 j 10:12	4° \approx 04'31	
	-2681 Oct 04 j 16:08	15° Ω			-2674 Jan 17 j 03:42	15° \approx	
retrograde	-2680 Jan 01 j 19:55	25° Ω 24'35		evening set	-2674 Feb 23 j 16:26	23° \approx 28'37	
opposition	-2680 Mar 02 j 09:47	20° Ω 32'50	1°55'34				
min. Earth dist.	-2680 Mar 03 j 16:07	20° Ω 23'09	4.39337 AU	conjunction	-2674 Mar 09 j 04:41	26° \approx 40'11	-1°18'12
direct	-2680 May 04 j 03:09	15° Ω 31'34		minimum elong	-2674 Mar 09 j 04:42	26° \approx 40'12	1°18'15
	-2680 Aug 23 j 04:44	0° \mathbb{P}		max. Earth dist.	-2674 Mar 11 j 03:34	27° \approx 07'56	6.02056 AU
evening set	-2680 Sep 07 j 17:38	3° \mathbb{P} 22'39		morning rise	-2674 Mar 22 j 19:52	29° \approx 53'08	
max. Earth dist.	-2680 Sep 18 j 11:24	5° \mathbb{P} 45'39	6.36107 AU		-2674 Mar 23 j 07:35	0° \mathcal{H}	
				retrograde	-2674 Jul 31 j 19:06	19° \mathcal{H} 56'31	
conjunction	-2680 Sep 20 j 08:29	6° \mathbb{P} 10'44	1°17'34	min. Earth dist.	-2674 Sep 28 j 02:26	15° \mathcal{H} 01'48	4.06014 AU
minimum elong	-2680 Sep 20 j 08:30	6° \mathbb{P} 10'44	1°17'35	opposition	-2674 Sep 29 j 09:19	14° \mathcal{H} 51'14	-1°48'57
morning rise	-2680 Oct 02 j 21:17	8° \mathbb{P} 57'55		direct	-2674 Nov 26 j 14:46	9° \mathcal{H} 53'17	
retrograde	-2679 Feb 01 j 21:42	26° \mathbb{P} 23'07		evening set	-2673 Apr 01 j 17:49	29° \mathcal{H} 01'05	
opposition	-2679 Apr 03 j 20:22	21° \mathbb{P} 31'22	1°42'37		-2673 Apr 06 j 00:18	0° \mathcal{Y}	
min. Earth dist.	-2679 Apr 05 j 04:06	21° \mathbb{P} 21'16	4.31831 AU				
direct	-2679 Jun 05 j 02:36	16° \mathbb{P} 32'38		conjunction	-2673 Apr 15 j 11:37	2° \mathcal{Y} 11'04	-1°01'16
	-2679 Sep 17 j 18:31	0° $\underline{\mathcal{A}}$		minimum elong	-2673 Apr 15 j 11:40	2° \mathcal{Y} 11'06	1°01'16
evening set	-2679 Oct 08 j 20:36	4° $\underline{\mathcal{A}}$ 39'40		max. Earth dist.	-2673 Apr 17 j 10:37	2° \mathcal{Y} 38'11	6.11023 AU
max. Earth dist.	-2679 Oct 19 j 18:33	7° $\underline{\mathcal{A}}$ 08'27	6.26447 AU	morning rise	-2673 Apr 29 j 06:32	5° \mathcal{Y} 21'26	
				retrograde	-2673 Sep 04 j 02:26	24° \mathcal{Y} 29'39	
conjunction	-2679 Oct 21 j 10:03	7° $\underline{\mathcal{A}}$ 30'58	0°57'05	opposition	-2673 Nov 02 j 13:04	19° \mathcal{Y} 25'51	-1°05'13
minimum elong	-2679 Oct 21 j 10:06	7° $\underline{\mathcal{A}}$ 31'00	0°57'04	min. Earth dist.	-2673 Nov 01 j 12:30	19° \mathcal{Y} 34'13	4.16855 AU
morning rise	-2679 Nov 02 j 22:45	10° $\underline{\mathcal{A}}$ 22'10		direct	-2673 Dec 31 j 16:35	14° \mathcal{Y} 24'52	
retrograde	-2678 Mar 07 j 20:05	28° $\underline{\mathcal{A}}$ 34'59			-2672 Apr 22 j 18:07	0° \mathcal{B}	
opposition	-2678 May 07 j 21:05	23° $\underline{\mathcal{A}}$ 41'36	0°58'07	evening set	-2672 May 06 j 17:07	3° \mathcal{B} 04'55	
min. Earth dist.	-2678 May 08 j 21:52	23° $\underline{\mathcal{A}}$ 33'41	4.20552 AU				
direct	-2678 Jul 08 j 03:26	18° $\underline{\mathcal{A}}$ 45'42		conjunction	-2672 May 20 j 11:10	6° \mathcal{B} 09'57	-0°23'32
	-2678 Oct 08 j 06:50	0° \mathbb{M}		minimum elong	-2672 May 20 j 11:12	6° \mathcal{B} 09'58	0°23'29
evening set	-2678 Nov 10 j 00:24	7° \mathbb{M} 17'37		max. Earth dist.	-2672 May 21 j 14:32	6° \mathcal{B} 25'18	6.22888 AU
				morning rise	-2672 Jun 03 j 04:34	9° \mathcal{B} 14'21	
conjunction	-2678 Nov 22 j 16:27	10° \mathbb{M} 15'01	0°18'09		-2672 Jun 29 j 18:27	15° \mathcal{B}	
minimum elong	-2678 Nov 22 j 16:28	10° \mathbb{M} 15'02	0°18'06	retrograde	-2672 Oct 05 j 10:55	27° \mathcal{B} 20'56	
max. Earth dist.	-2678 Nov 21 j 16:11	10° \mathbb{M} 00'50	6.14574 AU	opposition	-2672 Dec 04 j 00:16	22° \mathcal{B} 20'34	-0°02'26
morning rise	-2678 Dec 05 j 09:42	13° \mathbb{M} 13'13		min. Earth dist.	-2672 Dec 03 j 14:14	22° \mathcal{B} 23'56	4.28563 AU
	-2678 Dec 13 j 02:24	15° \mathbb{M}		asc. node	-2672 Dec 18 j 21:36	20° \mathcal{B} 24'00	
	-2677 Mar 03 j 14:30	0° \mathcal{A}		direct	-2671 Feb 02 j 12:03	17° \mathcal{B} 17'33	
retrograde	-2677 Apr 12 j 16:38	2° \mathcal{A} 25'29			-2671 May 15 j 04:06	0° Π	
desc. node	-2677 Apr 27 j 10:40	2° \mathcal{A} 05'00		evening set	-2671 Jun 10 j 00:06	5° Π 30'10	
	-2677 May 23 j 04:03	30° \mathbb{R} \mathbb{M}					

Planetary Phenomena of Jupiter from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 21

Attention, astronomical year style is used: The year -2671 in astronomical counting style is the year 2672 BCE in historical counting style.

conjunction	-2671 Jun 23 j 13:03	8° Π 28'33	0°20'23			-2665 Feb 03 j 18:54	0° 𐤀	
minimum elong	-2671 Jun 23 j 13:01	8° Π 28'32	0°20'27	desc. node		-2665 Mar 07 j 07:33	4° 𐤀 49'50	
max. Earth dist.	-2671 Jun 23 j 16:11	8° Π 30'16	6.33598 AU	retrograde		-2665 Apr 17 j 22:12	7° 𐤀 25'49	
morning rise	-2671 Jul 06 j 23:16	11° Π 25'30		opposition		-2665 Jun 17 j 17:40	2° 𐤀 28'46	-0°18'04
retrograde	-2671 Nov 05 j 11:53	28° Π 45'09		min. Earth dist.		-2665 Jun 17 j 22:49	2° 𐤀 27'05	4.07645 AU
opposition	-2670 Jan 04 j 08:31	23° Π 48'44	0°58'10			-2665 Jul 07 j 18:03	30° 𐤀 𐤀	
min. Earth dist.	-2670 Jan 04 j 14:30	23° Π 46'46	4.37488 AU	direct		-2665 Aug 16 j 10:19	27° 𐤀 35'19	
direct	-2670 Mar 07 j 00:46	18° Π 45'11				-2665 Sep 24 j 08:51	0° 𐤀	
	-2670 Jun 10 j 19:34	0° 𐤀		evening set		-2665 Dec 18 j 19:03	16° 𐤀 38'02	
evening set	-2670 Jul 12 j 15:48	6° 𐤀 38'55						
conjunction	-2670 Jul 25 j 19:54	9° 𐤀 31'04	0°57'02	conjunction		-2665 Dec 31 j 17:37	19° 𐤀 43'04	-0°34'35
minimum elong	-2670 Jul 25 j 19:51	9° 𐤀 31'02	0°57'06	minimum elong		-2665 Dec 31 j 17:34	19° 𐤀 43'03	0°34'39
max. Earth dist.	-2670 Jul 24 j 21:11	9° 𐤀 18'40	6.40008 AU	max. Earth dist.		-2664 Jan 01 j 00:20	19° 𐤀 47'04	6.03447 AU
morning rise	-2670 Aug 07 j 20:56	12° 𐤀 21'38		morning rise		-2664 Jan 13 j 18:58	22° 𐤀 49'42	
retrograde	-2670 Dec 06 j 03:35	29° 𐤀 18'52				-2664 Feb 14 j 02:00	0° 𐤀	
opposition	-2669 Feb 04 j 08:44	24° 𐤀 25'37	1°40'50	retrograde		-2664 May 24 j 05:52	12° 𐤀 58'43	
min. Earth dist.	-2669 Feb 05 j 06:39	24° 𐤀 18'32	4.41107 AU	opposition		-2664 Jul 23 j 16:24	7° 𐤀 57'38	-1°22'12
direct	-2669 Apr 07 j 21:28	19° 𐤀 22'47		min. Earth dist.		-2664 Jul 23 j 01:10	8° 𐤀 02'42	4.00736 AU
	-2669 Jul 09 j 17:56	0° 𐤀		direct		-2664 Sep 20 j 03:14	3° 𐤀 04'24	
evening set	-2669 Aug 13 j 02:42	7° 𐤀 09'56		evening set		-2663 Jan 22 j 18:01	22° 𐤀 25'27	
max. Earth dist.	-2669 Aug 24 j 07:53	9° 𐤀 37'11	6.40445 AU	conjunction		-2663 Feb 04 j 23:50	25° 𐤀 35'17	-1°09'09
conjunction	-2669 Aug 25 j 22:30	9° 𐤀 58'23	1°17'15	minimum elong		-2663 Feb 04 j 23:47	25° 𐤀 35'16	1°09'13
minimum elong	-2669 Aug 25 j 22:29	9° 𐤀 58'23	1°17'19	max. Earth dist.		-2663 Feb 06 j 09:05	25° 𐤀 55'11	5.99694 AU
morning rise	-2669 Sep 07 j 15:12	12° 𐤀 45'26		morning rise		-2663 Feb 18 j 08:58	28° 𐤀 46'53	
	-2669 Sep 17 j 23:46	15° 𐤀				-2663 Feb 23 j 12:42	0° 𐤀	
retrograde	-2668 Jan 06 j 03:58	29° 𐤀 47'02		retrograde		-2663 May 08 j 19:52	15° 𐤀	
opposition	-2668 Mar 06 j 20:10	24° 𐤀 55'24	1°55'44			-2663 Jun 30 j 14:40	19° 𐤀 11'05	
min. Earth dist.	-2668 Mar 08 j 02:33	24° 𐤀 45'42	4.38472 AU	min. Earth dist.		-2663 Aug 22 j 22:56	15° 𐤀	
direct	-2668 May 08 j 11:49	19° 𐤀 54'27		opposition		-2663 Aug 28 j 08:55	14° 𐤀 16'15	4.00696 AU
	-2668 Aug 06 j 01:18	0° 𐤀		direct		-2663 Aug 29 j 12:50	14° 𐤀 06'47	-1°55'45
evening set	-2668 Sep 12 j 01:20	7° 𐤀 47'45				-2663 Oct 26 j 12:40	9° 𐤀 11'33	
max. Earth dist.	-2668 Sep 22 j 19:02	10° 𐤀 11'10	6.34858 AU	evening set		-2663 Dec 26 j 19:01	15° 𐤀	
conjunction	-2668 Sep 24 j 15:43	10° 𐤀 36'07	1°16'00			-2662 Feb 28 j 19:18	28° 𐤀 33'15	
minimum elong	-2668 Sep 24 j 15:44	10° 𐤀 36'08	1°16'01	conjunction		-2662 Mar 06 j 22:53	0° 𐤀	
morning rise	-2668 Oct 07 j 04:12	13° 𐤀 23'43		minimum elong		-2662 Mar 14 j 08:30	1° 𐤀 44'41	-1°17'30
	-2667 Jan 13 j 03:47	0° 𐤀		max. Earth dist.		-2662 Mar 14 j 08:31	1° 𐤀 44'41	1°17'32
retrograde	-2667 Feb 06 j 13:40	0° 𐤀 54'57		morning rise		-2662 Mar 16 j 09:27	2° 𐤀 13'32	6.03245 AU
	-2667 Mar 03 j 00:17	30° 𐤀 𐤀		retrograde		-2662 Mar 28 j 00:18	4° 𐤀 57'21	
opposition	-2667 Apr 08 j 12:07	26° 𐤀 03'09	1°38'10	min. Earth dist.		-2662 Aug 05 j 14:55	24° 𐤀 53'35	
min. Earth dist.	-2667 Apr 09 j 20:16	25° 𐤀 52'57	4.30273 AU	opposition		-2662 Oct 02 j 21:47	19° 𐤀 58'50	4.07513 AU
direct	-2667 Jun 09 j 16:44	21° 𐤀 04'53		direct		-2662 Oct 04 j 04:19	19° 𐤀 48'24	-1°44'50
	-2667 Aug 30 j 19:03	0° 𐤀				-2662 Dec 01 j 11:23	14° 𐤀 50'03	
evening set	-2667 Oct 13 j 06:59	9° 𐤀 15'34		evening set		-2661 Mar 20 j 11:11	0° 𐤀	
max. Earth dist.	-2667 Oct 24 j 05:40	11° 𐤀 45'25	6.24723 AU			-2661 Apr 06 j 17:49	3° 𐤀 53'47	
conjunction	-2667 Oct 25 j 20:34	12° 𐤀 07'40	0°52'32	conjunction		-2661 Apr 20 j 11:47	7° 𐤀 03'08	-0°57'00
minimum elong	-2667 Oct 25 j 20:37	12° 𐤀 07'42	0°52'32	minimum elong		-2661 Apr 20 j 11:51	7° 𐤀 03'10	0°57'00
morning rise	-2667 Nov 07 j 09:49	14° 𐤀 59'48		max. Earth dist.		-2661 Apr 22 j 07:04	7° 𐤀 28'01	6.12688 AU
	-2666 Jan 24 j 02:12	0° 𐤀		morning rise		-2661 May 04 j 06:58	10° 𐤀 12'50	
retrograde	-2666 Mar 12 j 17:27	3° 𐤀 20'59		retrograde		-2661 Sep 08 j 14:09	29° 𐤀 12'14	
	-2666 Apr 30 j 11:57	30° 𐤀 𐤀		min. Earth dist.		-2661 Nov 06 j 03:10	24° 𐤀 16'27	4.18511 AU
opposition	-2666 May 12 j 19:09	28° 𐤀 27'15	0°49'45	opposition		-2661 Nov 07 j 01:36	24° 𐤀 08'49	-0°57'14
min. Earth dist.	-2666 May 13 j 16:50	28° 𐤀 20'19	4.18799 AU	direct		-2660 Jan 05 j 09:41	19° 𐤀 07'27	
direct	-2666 Jul 12 j 20:10	23° 𐤀 31'47				-2660 Apr 05 j 08:22	0° 𐤀	
	-2666 Sep 18 j 03:18	0° 𐤀		evening set		-2660 May 11 j 11:48	7° 𐤀 43'38	
evening set	-2666 Nov 14 j 15:56	12° 𐤀 07'49		conjunction		-2660 May 25 j 05:39	10° 𐤀 47'53	-0°17'34
	-2666 Nov 26 j 22:08	15° 𐤀		minimum elong		-2660 May 25 j 05:40	10° 𐤀 47'54	0°17'32
conjunction	-2666 Nov 27 j 08:43	15° 𐤀 06'12	0°11'45	max. Earth dist.		-2660 May 26 j 06:30	11° 𐤀 01'48	6.24430 AU
minimum elong	-2666 Nov 27 j 08:44	15° 𐤀 06'12	0°11'41	morning rise		-2660 Jun 07 j 22:12	13° 𐤀 51'20	
behind sun begin	-2666 Nov 27 j 02:59	15° 𐤀 02'51				-2660 Jun 13 j 02:23	15° 𐤀	
behind sun end	-2666 Nov 27 j 14:29	15° 𐤀 09'34		retrograde		-2660 Sep 05 j 13:06	0° 𐤀	
max. Earth dist.	-2666 Nov 26 j 13:23	14° 𐤀 54'51	6.12978 AU	asc. node		-2660 Oct 09 j 18:44	1° 𐤀 50'48	
morning rise	-2666 Dec 10 j 02:40	18° 𐤀 05'27				-2660 Oct 30 j 02:58	1° 𐤀 09'59	
						-2660 Nov 12 j 19:37	30° 𐤀 𐤀	

Attention, astronomical year style is used: The year -2660 in astronomical counting style is the year 2661 BCE in historical counting style.

opposition	-2660 Dec 08 j 08:31	26°  51'03	0°06'24			-2654 Jun 14 j 00:42	30°  17'19	
min. Earth dist.	-2660 Dec 08 j 00:42	26°  53'40	4.29861 AU	direct		-2654 Jul 17 j 15:05	28°  17'19	
direct	-2659 Feb 07 j 00:06	21°  47'56				-2654 Aug 19 j 19:46	0° 	
	-2659 Apr 26 j 16:54	0° 				-2654 Nov 10 j 22:30	15° 	
evening set	-2659 Jun 14 j 13:43	9°  57'58		evening set		-2654 Nov 19 j 07:04	16°  56'17	
				max. Earth dist.		-2654 Dec 01 j 07:40	19°  45'38	6.11653 AU
conjunction	-2659 Jun 28 j 01:29	12°  55'31	0°26'04					
minimum elong	-2659 Jun 28 j 01:27	12°  55'30	0°26'08	conjunction		-2654 Dec 02 j 00:27	19°  55'30	0°05'18
max. Earth dist.	-2659 Jun 27 j 23:22	12°  54'21	6.34551 AU	minimum elong		-2654 Dec 02 j 00:27	19°  55'30	0°05'15
morning rise	-2659 Jul 11 j 10:44	15°  51'39		behind sun begin		-2654 Dec 01 j 16:41	19°  50'57	
	-2659 Sep 25 j 08:07	0° 		behind sun end		-2654 Dec 02 j 08:14	20°  00'04	
retrograde	-2659 Nov 09 j 18:09	3°  50'37		morning rise		-2654 Dec 14 j 19:21	22°  55'44	
	-2659 Dec 25 j 13:05	30°  18'18		desc. node		-2653 Jan 15 j 14:33	0° 	
opposition	-2658 Jan 08 j 15:20	28°  11'42	1°05'21			-2653 Jan 15 j 02:47	0° 	
min. Earth dist.	-2658 Jan 09 j 00:16	28°  08'46	4.38062 AU	retrograde		-2653 Apr 22 j 23:27	12°  22'57	
direct	-2658 Mar 11 j 11:37	23°  08'10		opposition		-2653 Jun 22 j 19:12	7°  25'19	-0°27'48
	-2658 May 22 j 13:26	0° 		min. Earth dist.		-2653 Jun 22 j 20:45	7°  24'48	4.06568 AU
evening set	-2658 Jul 17 j 01:35	11°  50'11'10		direct		-2653 Aug 21 j 06:29	2°  32'01	
max. Earth dist.	-2658 Jul 29 j 04:38	13°  53'40	6.40164 AU	evening set		-2653 Dec 23 j 15:39	21°  27'11	
conjunction	-2658 Jul 30 j 04:39	13°  52'48	1°00'55	conjunction		-2652 Jan 05 j 15:06	24°  27'56	-0°40'27
minimum elong	-2658 Jul 30 j 04:36	13°  52'46	1°00'59	minimum elong		-2652 Jan 05 j 15:03	24°  27'54	0°40'31
morning rise	-2658 Aug 12 j 04:18	16°  54'26		max. Earth dist.		-2652 Jan 06 j 01:38	24°  27'14	6.02701 AU
	-2658 Oct 21 j 16:56	0° 		morning rise		-2652 Jan 18 j 17:24	27°  25'01'19	
retrograde	-2658 Dec 10 j 09:04	3°  53'54				-2652 Jan 27 j 21:35	0° 	
	-2657 Jan 30 j 03:38	30°  18'58		retrograde		-2652 May 29 j 10:09	18°  50'14	
opposition	-2657 Feb 08 j 16:36	28°  54'58	1°44'40	opposition		-2652 Jul 28 j 18:54	13°  50'13'7	-1°29'08
min. Earth dist.	-2657 Feb 09 j 15:14	28°  53'40	4.40871 AU	min. Earth dist.		-2652 Jul 28 j 02:10	13°  50'11	4.00402 AU
direct	-2657 Apr 12 j 05:46	23°  54'22		direct		-2652 Sep 25 j 04:20	8°  50'8'10	
	-2657 Jun 20 j 00:05	0° 		evening set		-2651 Jan 27 j 19:09	27°  50'06	
evening set	-2657 Aug 17 j 10:46	11°  53'22'24				-2651 Feb 07 j 06:32	0° 	
max. Earth dist.	-2657 Aug 28 j 12:53	13°  58'20	6.39827 AU	conjunction		-2651 Feb 10 j 02:03	0° 	-1°12'03
conjunction	-2657 Aug 30 j 05:28	14°  52'04'40	1°18'23	minimum elong		-2651 Feb 10 j 02:00	0° 	1°12'07
minimum elong	-2657 Aug 30 j 05:27	14°  52'03'39	1°18'26	max. Earth dist.		-2651 Feb 11 j 14:47	1°  52'18	5.99793 AU
	-2657 Sep 02 j 04:56	15°  52'00		morning rise		-2651 Feb 23 j 12:08	3°  52'17	
morning rise	-2657 Sep 11 j 21:29	17°  50'07'39				-2651 Apr 14 j 18:56	15° 	
	-2657 Nov 17 j 21:37	0° 		retrograde		-2651 Jul 05 j 16:17	24°  51'45'9	
retrograde	-2656 Jan 10 j 15:33	4°  51'22'23		min. Earth dist.		-2651 Sep 02 j 07:38	19°  51'20'13	4.01244 AU
	-2656 Mar 06 j 04:34	30°  18'52'00		opposition		-2651 Sep 03 j 12:26	19°  51'28	-1°56'54
opposition	-2656 Mar 11 j 07:54	29°  52'04'49	1°55'12			-2651 Oct 10 j 12:50	15° 	
min. Earth dist.	-2656 Mar 12 j 15:37	29°  51'04'43	4.37520 AU	direct		-2651 Oct 31 j 11:32	14°  51'14'51	
direct	-2656 May 13 j 00:08	24°  52'01'12				-2651 Nov 21 j 11:52	15° 	
	-2656 Jul 16 j 14:51	0° 		evening set		-2650 Feb 18 j 09:33	0° 	
evening set	-2656 Sep 16 j 09:19	12°  51'15'26				-2650 Mar 05 j 22:01	3°  51'16	
max. Earth dist.	-2656 Sep 27 j 03:22	14°  51'39'28	6.33646 AU	conjunction		-2650 Mar 19 j 11:57	6°  51'38	-1°16'15
conjunction	-2656 Sep 28 j 23:26	15°  51'04'09	1°13'58	minimum elong		-2650 Mar 19 j 11:58	6°  51'39	1°16'17
minimum elong	-2656 Sep 28 j 23:28	15°  51'04'10	1°13'59	max. Earth dist.		-2650 Mar 21 j 11:33	7°  51'37	6.04164 AU
morning rise	-2656 Oct 11 j 11:43	17°  52'09		morning rise		-2650 Apr 02 j 04:37	9°  51'12	
	-2656 Dec 11 j 01:45	0° 		retrograde		-2650 Aug 10 j 09:21	29°  51'49'19	
retrograde	-2655 Feb 11 j 04:13	5°  52'29'08		opposition		-2650 Oct 08 j 22:48	24°  51'44'12	-1°40'02
opposition	-2655 Apr 13 j 04:46	0° 	1°33'02	min. Earth dist.		-2650 Oct 07 j 16:49	24°  51'45'27	4.08695 AU
min. Earth dist.	-2655 Apr 14 j 10:47	0° 	4.28878 AU	direct		-2650 Dec 06 j 08:10	19°  51'45'22	
	-2655 Apr 18 j 01:45	30°  18'52'00				-2649 Mar 02 j 10:46	0° 	
direct	-2655 Jun 14 j 05:25	25°  53'39'12		evening set		-2649 Apr 11 j 18:07	8°  51'46'20	
	-2655 Aug 08 j 10:49	0° 		conjunction		-2649 Apr 25 j 12:37	11°  51'55'18	-0°52'20
evening set	-2655 Oct 17 j 17:36	13°  52'52'33		minimum elong		-2649 Apr 25 j 12:41	11°  51'55'20	0°52'19
max. Earth dist.	-2655 Oct 28 j 19:22	16°  52'24'39	6.23263 AU	max. Earth dist.		-2649 Apr 27 j 06:50	12°  51'19'29	6.14050 AU
conjunction	-2655 Oct 30 j 07:22	16°  52'45'20	0°47'39	morning rise		-2649 May 09 j 07:42	15°  51'04'22	
minimum elong	-2655 Oct 30 j 07:25	16°  52'45'21	0°47'37			-2649 Jul 24 j 06:49	0° 	
morning rise	-2655 Nov 11 j 20:58	19°  53'38'14		retrograde		-2649 Sep 13 j 04:53	3°  56'06	
	-2655 Dec 30 j 14:55	0° 				-2649 Nov 03 j 08:28	30°  56'06	
retrograde	-2654 Mar 17 j 16:34	8°  56'06'38		opposition		-2649 Nov 11 j 15:10	28°  56'06'10	-0°48'50
opposition	-2654 May 17 j 17:02	3°  56'12'29	0°41'00	min. Earth dist.		-2649 Nov 10 j 18:51	29°  56'00'03	4.19894 AU
min. Earth dist.	-2654 May 18 j 13:34	3°  56'05'54	4.17343 AU	direct		-2648 Jan 10 j 03:20	23°  56'05'13'1	

Attention, astronomical year style is used: The year -2648 in astronomical counting style is the year 2649 BCE in historical counting style.

	-2648 Mar 15 j 18:12	0°♄	min. Earth dist.	-2643 Apr 19 j 02:34	4°♄59'47	4.27935 AU
evening set	-2648 May 16 j 07:56	12°♄24'43	direct	-2643 Jun 18 j 19:50	0°♄11'44	
	-2648 May 27 j 22:38	15°♄	evening set	-2643 Oct 22 j 02:34	18°♄26'20	
			max. Earth dist.	-2643 Nov 02 j 06:34	21°♄00'03	6.22216 AU
conjunction	-2648 May 30 j 01:11	15°♄28'13 -0°11'25				
minimum elong	-2648 May 30 j 01:11	15°♄28'13 0°11'22	conjunction	-2643 Nov 03 j 16:38	21°♄19'39 0°42'34	
behind sun begin	-2648 May 29 j 19:14	15°♄24'55	minimum elong	-2643 Nov 03 j 16:40	21°♄19'41 0°42'32	
behind sun end	-2648 May 30 j 07:09	15°♄31'32	morning rise	-2643 Nov 16 j 06:39	24°♄13'12	
max. Earth dist.	-2648 May 30 j 21:50	15°♄39'44 6.25726 AU		-2643 Dec 12 j 05:18	0°♄	
morning rise	-2648 Jun 12 j 17:09	18°♄30'50	retrograde	-2642 Mar 22 j 10:56	12°♄47'32	
	-2648 Aug 08 j 09:56	0°♄	opposition	-2642 May 22 j 12:32	7°♄52'58 0°32'11	
asc. node	-2648 Sep 09 j 04:16	4°♄28'35	min. Earth dist.	-2642 May 23 j 06:19	7°♄47'16 4.16258 AU	
retrograde	-2648 Oct 14 j 03:38	6°♄24'05	direct	-2642 Jul 22 j 05:19	2°♄58'08	
opposition	-2648 Dec 12 j 18:27	1°♄24'52 0°15'20		-2642 Oct 25 j 09:40	15°♄	
min. Earth dist.	-2648 Dec 12 j 12:39	1°♄26'48 4.30981 AU	evening set	-2642 Nov 23 j 19:38	21°♄39'03	
	-2648 Dec 23 j 12:23	30°♄8	desc. node	-2642 Nov 27 j 05:58	22°♄27'17	
direct	-2647 Feb 11 j 14:01	26°♄21'37				
	-2647 Apr 02 j 21:00	0°♄	conjunction	-2642 Dec 06 j 13:34	24°♄38'57 -0°01'08	
evening set	-2647 Jun 19 j 05:10	14°♄29'41	minimum elong	-2642 Dec 06 j 13:34	24°♄38'57 0°01'12	
			behind sun begin	-2642 Dec 06 j 05:32	24°♄34'14	
conjunction	-2647 Jul 02 j 15:57	17°♄26'27 0°31'43	behind sun end	-2642 Dec 06 j 21:37	24°♄43'40	
minimum elong	-2647 Jul 02 j 15:55	17°♄26'26 0°31'47	max. Earth dist.	-2642 Dec 05 j 23:38	24°♄30'45 6.10622 AU	
max. Earth dist.	-2647 Jul 02 j 11:45	17°♄24'09 6.35430 AU	morning rise	-2642 Dec 19 j 09:17	27°♄39'59	
morning rise	-2647 Jul 15 j 23:49	20°♄21'42		-2642 Dec 29 j 10:16	0°♄	
	-2647 Sep 01 j 07:43	0°♄	retrograde	-2641 Apr 27 j 22:53	17°♄13'18	
retrograde	-2647 Nov 14 j 01:51	7°♄34'12	opposition	-2641 Jun 27 j 17:30	12°♄15'07 -0°37'05	
opposition	-2646 Jan 13 j 00:06	2°♄38'52 1°12'20	min. Earth dist.	-2641 Jun 27 j 17:33	12°♄15'06 4.05669 AU	
min. Earth dist.	-2646 Jan 13 j 10:39	2°♄35'24 4.38671 AU	direct	-2641 Aug 26 j 02:00	7°♄21'51	
	-2646 Feb 03 j 08:15	30°♄11	evening set	-2641 Dec 28 j 09:21	26°♄29'17	
direct	-2646 Mar 15 j 23:13	27°♄35'29				
	-2646 Apr 25 j 22:02	0°♄	conjunction	-2640 Jan 10 j 09:47	29°♄35'44 -0°45'52	
evening set	-2646 Jul 21 j 13:05	15°♄27'30	minimum elong	-2640 Jan 10 j 09:44	29°♄35'42 0°45'55	
max. Earth dist.	-2646 Aug 02 j 11:24	18°♄03'31 6.40455 AU	max. Earth dist.	-2640 Jan 10 j 23:41	29°♄44'03 6.02019 AU	
				-2640 Jan 12 j 02:21	0°♄	
conjunction	-2646 Aug 03 j 14:47	18°♄18'29 1°04'34	morning rise	-2640 Jan 23 j 13:04	2°♄34'51	
minimum elong	-2646 Aug 03 j 14:44	18°♄18'27 1°04'39	retrograde	-2640 Jun 03 j 11:11	23°♄00'19	
morning rise	-2646 Aug 16 j 13:22	21°♄07'53	opposition	-2640 Aug 02 j 17:34	17°♄58'18 -1°35'13	
	-2646 Sep 28 j 22:18	0°♄	min. Earth dist.	-2640 Aug 01 j 23:14	18°♄04'25 4.00041 AU	
retrograde	-2646 Dec 14 j 18:11	8°♄04'33	direct	-2640 Sep 30 j 00:05	13°♄04'40	
opposition	-2645 Feb 13 j 02:34	3°♄11'55 1°48'00		-2639 Jan 22 j 06:20	0°♄	
min. Earth dist.	-2645 Feb 14 j 02:43	3°♄04'09 4.40871 AU	evening set	-2639 Feb 01 j 17:40	2°♄28'05	
	-2645 Mar 12 j 03:07	30°♄8				
direct	-2645 Apr 16 j 17:37	28°♄09'35	conjunction	-2639 Feb 15 j 01:28	5°♄38'46 -1°14'21	
	-2645 May 22 j 11:40	0°♄	minimum elong	-2639 Feb 15 j 01:26	5°♄38'45 1°14'24	
	-2645 Aug 17 j 09:54	15°♄	max. Earth dist.	-2639 Feb 16 j 14:31	6°♄00'53 5.99760 AU	
evening set	-2645 Aug 21 j 19:23	15°♄57'25	morning rise	-2639 Feb 28 j 12:44	8°♄51'10	
max. Earth dist.	-2645 Sep 01 j 21:29	18°♄23'29 6.39542 AU		-2639 Mar 27 j 04:28	15°♄	
			retrograde	-2639 Jul 10 j 13:31	29°♄13'04	
conjunction	-2645 Sep 03 j 13:19	18°♄45'26 1°19'07	min. Earth dist.	-2639 Sep 07 j 03:32	24°♄18'20 4.01558 AU	
minimum elong	-2645 Sep 03 j 13:18	18°♄45'26 1°19'09	opposition	-2639 Sep 08 j 09:04	24°♄08'17 -1°57'11	
morning rise	-2645 Sep 16 j 04:20	21°♄32'10	direct	-2639 Nov 05 j 07:52	19°♄12'15	
	-2645 Oct 26 j 24:00	0°♄		-2638 Jan 31 j 18:33	0°♄	
retrograde	-2644 Jan 15 j 01:06	8°♄39'03	evening set	-2638 Mar 10 j 22:24	8°♄32'29	
opposition	-2644 Mar 15 j 20:13	3°♄47'33 1°54'01				
min. Earth dist.	-2644 Mar 17 j 03:02	3°♄37'44 4.36982 AU	conjunction	-2638 Mar 24 j 13:26	11°♄44'00 -1°14'28	
	-2644 Apr 18 j 19:07	30°♄8	minimum elong	-2638 Mar 24 j 13:28	11°♄44'01 1°14'30	
direct	-2644 May 17 j 10:48	28°♄47'21	max. Earth dist.	-2638 Mar 26 j 14:15	12°♄12'38 6.04819 AU	
	-2644 Jun 15 j 03:56	0°♄	morning rise	-2638 Apr 07 j 06:40	14°♄56'33	
evening set	-2644 Sep 20 j 17:16	16°♄43'04		-2638 Jun 20 j 06:07	0°♄	
max. Earth dist.	-2644 Oct 01 j 11:02	19°♄07'18 6.32896 AU	retrograde	-2638 Aug 15 j 04:38	4°♄41'37	
				-2638 Oct 10 j 19:26	30°♄8	
conjunction	-2644 Oct 03 j 06:50	19°♄31'54 1°11'31	min. Earth dist.	-2638 Oct 12 j 11:12	29°♄46'26 4.09610 AU	
minimum elong	-2644 Oct 03 j 06:52	19°♄31'55 1°11'33	opposition	-2638 Oct 13 j 15:46	29°♄36'40 -1°34'38	
morning rise	-2644 Oct 15 j 19:01	22°♄20'09	direct	-2638 Dec 11 j 04:11	24°♄37'25	
	-2644 Nov 20 j 16:14	0°♄		-2637 Feb 08 j 22:42	0°♄	
retrograde	-2643 Feb 15 j 20:21	10°♄01'30	evening set	-2637 Apr 16 j 17:29	13°♄36'33	
opposition	-2643 Apr 17 j 20:42	5°♄09'17 1°27'24				

Attention, astronomical year style is used: The year -2637 in astronomical counting style is the year 2638 BCE in historical counting style.

conjunction	-2637 Apr 30 j 12:12	16° Υ 45'10	-0°47'22	retrograde	-2631 Feb 20 j 11:30	14° Ω 34'10	
minimum elong	-2637 Apr 30 j 12:15	16° Υ 45'11	0°47'21	opposition	-2631 Apr 22 j 13:06	9° Ω 41'43	1°21'13
max. Earth dist.	-2637 May 02 j 04:13	17° Υ 08'00	6.15164 AU	min. Earth dist.	-2631 Apr 23 j 17:38	9° Ω 32'39	4.26443 AU
morning rise	-2637 May 14 j 07:26	19° Υ 53'46		direct	-2631 Jun 23 j 07:51	4° Ω 44'36	
	-2637 Jun 30 j 21:32	0° \mathcal{B}		evening set	-2631 Oct 26 j 12:54	23° Ω 02'29	
retrograde	-2637 Sep 17 j 16:49	8° \mathcal{B} 38'34		max. Earth dist.	-2631 Nov 06 j 18:22	25° Ω 37'39	6.20571 AU
min. Earth dist.	-2637 Nov 15 j 08:18	3° \mathcal{B} 42'37	4.21103 AU				
opposition	-2637 Nov 16 j 03:48	3° \mathcal{B} 36'01	-0°40'12	conjunction	-2631 Nov 08 j 03:10	25° Ω 56'36	0°37'09
	-2637 Dec 15 j 23:33	30° \mathcal{K} Υ		minimum elong	-2631 Nov 08 j 03:12	25° Ω 56'38	0°37'07
direct	-2636 Jan 14 j 19:13	28° Υ 34'02		morning rise	-2631 Nov 20 j 17:52	28° Ω 51'08	
	-2636 Feb 14 j 01:00	0° \mathcal{B}			-2631 Nov 25 j 18:13	0° \mathcal{M}	
	-2636 May 11 j 16:31	15° \mathcal{B}			-2630 Feb 14 j 00:20	15° \mathcal{M}	
evening set	-2636 May 21 j 03:25	17° \mathcal{B} 04'40		retrograde	-2630 Mar 27 j 10:29	17° \mathcal{M} 33'49	
					-2630 May 08 j 07:25	15° \mathcal{R} \mathcal{M}	
conjunction	-2636 Jun 03 j 20:09	20° \mathcal{B} 07'25	-0°05'15	opposition	-2630 May 27 j 10:35	12° \mathcal{M} 38'49	0°22'56
minimum elong	-2636 Jun 03 j 20:10	20° \mathcal{B} 07'26	0°05'11	min. Earth dist.	-2630 May 28 j 02:53	12° \mathcal{M} 33'34	4.14556 AU
behind sun begin	-2636 Jun 03 j 12:07	20° \mathcal{B} 02'58		direct	-2630 Jul 26 j 23:34	7° \mathcal{M} 44'15	
behind sun end	-2636 Jun 04 j 04:12	20° \mathcal{B} 11'53			-2630 Oct 06 j 02:43	15° \mathcal{M}	
max. Earth dist.	-2636 Jun 04 j 14:12	20° \mathcal{B} 17'28	6.26961 AU	desc. node	-2630 Oct 07 j 11:50	15° \mathcal{M} 15'20	
morning rise	-2636 Jun 17 j 11:16	23° \mathcal{B} 09'10		evening set	-2630 Nov 28 j 11:44	26° \mathcal{M} 29'32	
	-2636 Jul 19 j 14:09	0° \mathcal{I}					
asc. node	-2636 Jul 20 j 07:45	0° \mathcal{I} 08'52		conjunction	-2630 Dec 11 j 06:37	29° \mathcal{M} 30'30	-0°07'40
retrograde	-2636 Oct 18 j 13:44	10° \mathcal{I} 56'13		minimum elong	-2630 Dec 11 j 06:36	29° \mathcal{M} 30'29	0°07'45
opposition	-2636 Dec 17 j 04:11	5° \mathcal{I} 57'31	0°24'08	behind sun begin	-2630 Dec 10 j 23:18	29° \mathcal{M} 26'12	
min. Earth dist.	-2636 Dec 17 j 00:45	5° \mathcal{I} 58'40	4.32125 AU	behind sun end	-2630 Dec 11 j 13:53	29° \mathcal{M} 34'47	
direct	-2635 Feb 16 j 04:22	0° \mathcal{I} 54'08		max. Earth dist.	-2630 Dec 10 j 20:32	29° \mathcal{M} 24'34	6.09035 AU
evening set	-2635 Jun 23 j 19:32	18° \mathcal{I} 59'34			-2630 Dec 13 j 08:30	0° \mathcal{J}	
				morning rise	-2630 Dec 24 j 03:15	2° \mathcal{J} 32'39	
conjunction	-2635 Jul 07 j 05:09	21° \mathcal{I} 55'27	0°37'10	retrograde	-2629 May 03 j 03:09	22° \mathcal{J} 13'58	
minimum elong	-2635 Jul 07 j 05:06	21° \mathcal{I} 55'26	0°37'13	opposition	-2629 Jul 02 j 20:02	17° \mathcal{J} 15'20	-0°46'29
max. Earth dist.	-2635 Jul 06 j 21:46	21° \mathcal{I} 51'25	6.36375 AU	min. Earth dist.	-2629 Jul 02 j 17:27	17° \mathcal{J} 16'11	4.04361 AU
morning rise	-2635 Jul 20 j 11:48	24° \mathcal{I} 49'47		direct	-2629 Aug 30 j 23:36	12° \mathcal{J} 22'13	
	-2635 Aug 13 j 19:54	0° \mathcal{E}			-2629 Dec 26 j 18:33	0° \mathcal{Z}	
retrograde	-2635 Nov 18 j 08:14	11° \mathcal{E} 58'30		evening set	-2628 Jan 02 j 08:33	1° \mathcal{Z} 33'32	
opposition	-2634 Jan 17 j 08:17	7° \mathcal{E} 03'29	1°18'50				
min. Earth dist.	-2634 Jan 17 j 20:20	6° \mathcal{E} 59'33	4.39355 AU	conjunction	-2628 Jan 15 j 09:52	4° \mathcal{Z} 40'49	-0°51'11
direct	-2634 Mar 20 j 10:02	2° \mathcal{E} 00'05		minimum elong	-2628 Jan 15 j 09:49	4° \mathcal{Z} 40'47	0°51'15
evening set	-2634 Jul 25 j 22:58	19° \mathcal{E} 50'25		max. Earth dist.	-2628 Jan 16 j 02:18	4° \mathcal{Z} 50'40	6.01093 AU
				morning rise	-2628 Jan 28 j 14:25	7° \mathcal{Z} 49'52	
conjunction	-2634 Aug 07 j 23:29	22° \mathcal{E} 40'44	1°07'49	retrograde	-2628 Jun 08 j 16:25	28° \mathcal{Z} 10'38	
minimum elong	-2634 Aug 07 j 23:27	22° \mathcal{E} 40'43	1°07'53	opposition	-2628 Aug 07 j 21:29	23° \mathcal{Z} 08'09	-1°40'54
max. Earth dist.	-2634 Aug 06 j 19:06	22° \mathcal{E} 25'13	6.40796 AU	min. Earth dist.	-2628 Aug 07 j 00:29	23° \mathcal{Z} 15'11	3.99626 AU
morning rise	-2634 Aug 20 j 20:42	25° \mathcal{E} 29'28		direct	-2628 Oct 05 j 01:19	18° \mathcal{Z} 14'20	
	-2634 Sep 11 j 01:07	0° \mathcal{O}			-2627 Jan 04 j 11:34	0° \approx	
retrograde	-2634 Dec 19 j 00:58	12° \mathcal{O} 25'27		evening set	-2627 Feb 06 j 22:00	7° \approx 39'22	
opposition	-2633 Feb 17 j 11:13	7° \mathcal{O} 33'04	1°50'43				
min. Earth dist.	-2633 Feb 18 j 12:35	7° \mathcal{O} 24'55	4.40829 AU	conjunction	-2627 Feb 20 j 07:03	10° \approx 50'30	-1°16'11
direct	-2633 Apr 21 j 03:15	2° \mathcal{O} 30'56		minimum elong	-2627 Feb 20 j 07:02	10° \approx 50'29	1°16'14
	-2633 Aug 01 j 03:53	15° \mathcal{O}		max. Earth dist.	-2627 Feb 22 j 00:19	11° \approx 15'07	5.99911 AU
evening set	-2633 Aug 26 j 02:37	20° \mathcal{O} 18'35		morning rise	-2627 Mar 05 j 19:09	14° \approx 03'14	
max. Earth dist.	-2633 Sep 06 j 01:06	22° \mathcal{O} 42'57	6.39081 AU		-2627 Mar 09 j 19:26	15° \approx	
					-2627 May 22 j 17:26	0° \mathcal{H}	
conjunction	-2633 Sep 07 j 19:33	23° \mathcal{O} 06'24	1°19'24	retrograde	-2627 Jul 15 j 17:09	4° \mathcal{H} 22'52	
minimum elong	-2633 Sep 07 j 19:33	23° \mathcal{O} 06'23	1°19'26		-2627 Sep 08 j 06:25	30° \mathcal{R} \approx	
morning rise	-2633 Sep 20 j 10:02	25° \mathcal{O} 53'03		min. Earth dist.	-2627 Sep 12 j 04:28	29° \approx 28'07	4.02294 AU
	-2633 Oct 09 j 12:05	0° \mathcal{P}		opposition	-2627 Sep 13 j 10:16	29° \approx 17'58	-1°56'35
retrograde	-2632 Jan 19 j 12:29	13° \mathcal{P} 02'49		direct	-2627 Nov 10 j 09:56	24° \approx 21'37	
opposition	-2632 Mar 20 j 07:54	8° \mathcal{P} 11'17	1°52'14		-2626 Jan 09 j 22:11	0° \mathcal{H}	
min. Earth dist.	-2632 Mar 21 j 15:40	8° \mathcal{P} 01'10	4.36113 AU	evening set	-2626 Mar 16 j 03:43	13° \mathcal{H} 39'54	
direct	-2632 May 21 j 21:43	3° \mathcal{P} 11'20					
evening set	-2632 Sep 25 j 00:12	21° \mathcal{P} 08'42		conjunction	-2626 Mar 29 j 19:24	16° \mathcal{H} 51'12	-1°12'07
max. Earth dist.	-2632 Oct 05 j 19:17	23° \mathcal{P} 34'02	6.31685 AU	minimum elong	-2626 Mar 29 j 19:27	16° \mathcal{H} 51'13	1°12'08
				max. Earth dist.	-2626 Mar 31 j 20:23	17° \mathcal{H} 19'49	6.06083 AU
conjunction	-2632 Oct 07 j 13:44	23° \mathcal{P} 57'56	1°08'41	morning rise	-2626 Apr 12 j 13:20	20° \mathcal{H} 03'25	
minimum elong	-2632 Oct 07 j 13:46	23° \mathcal{P} 57'58	1°08'41		-2626 May 28 j 01:36	0° \mathcal{Y}	
morning rise	-2632 Oct 20 j 01:45	26° \mathcal{P} 46'40		retrograde	-2626 Aug 19 j 23:14	9° \mathcal{Y} 40'22	
	-2632 Nov 03 j 15:23	0° \mathcal{U}		min. Earth dist.	-2626 Oct 17 j 05:48	4° \mathcal{Y} 45'33	4.11284 AU

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Attention, astronomical year style is used: The year -2626 in astronomical counting style is the year 2627 BCE in historical counting style.

opposition	-2626 Oct 18 j 10:52	4° Υ 35'38	-1°28'26	max. Earth dist.	-2620 Oct 09 j 23:30	27° \mathbb{M} 56'46	6.29905 AU
	-2626 Nov 30 j 17:46	30° \mathbb{K}					
direct	-2626 Dec 16 j 01:56	29° \mathbb{K} 35'59		conjunction	-2620 Oct 11 j 19:13	28° \mathbb{M} 21'29	1°05'31
	-2626 Dec 31 j 13:48	0° Υ		minimum elong	-2620 Oct 11 j 19:15	28° \mathbb{M} 21'30	1°05'30
evening set	-2625 Apr 21 j 18:28	18° Υ 30'25			-2620 Oct 19 j 01:30	0° \mathbb{L}	
				morning rise	-2620 Oct 24 j 07:34	1° \mathbb{L} 11'02	
conjunction	-2625 May 05 j 13:12	21° Υ 38'11	-0°42'03	retrograde	-2619 Feb 25 j 04:30	19° \mathbb{L} 06'49	
minimum elong	-2625 May 05 j 13:15	21° Υ 38'13	0°42'01	opposition	-2619 Apr 27 j 05:15	14° \mathbb{L} 14'04	1°14'39
max. Earth dist.	-2625 May 07 j 02:55	21° Υ 59'38	6.17121 AU	min. Earth dist.	-2619 Apr 28 j 09:05	14° \mathbb{L} 05'11	4.24349 AU
morning rise	-2625 May 19 j 08:07	24° Υ 45'47		direct	-2619 Jun 27 j 20:05	9° \mathbb{L} 17'14	
	-2625 Jun 12 j 02:31	0° \mathbb{B}		evening set	-2619 Oct 30 j 23:34	27° \mathbb{L} 40'36	
retrograde	-2625 Sep 22 j 05:52	13° \mathbb{B} 20'40			-2619 Nov 10 j 00:42	0° \mathbb{M}	
opposition	-2625 Nov 20 j 16:28	8° \mathbb{B} 18'35	-0°31'23	max. Earth dist.	-2619 Nov 11 j 09:08	0° \mathbb{M} 18'49	6.18360 AU
min. Earth dist.	-2625 Nov 19 j 23:31	8° \mathbb{B} 24'19	4.23131 AU				
direct	-2624 Jan 19 j 13:44	3° \mathbb{B} 16'19		conjunction	-2619 Nov 12 j 14:35	0° \mathbb{M} 35'55	0°31'31
	-2624 Apr 24 j 12:31	15° \mathbb{B}		minimum elong	-2619 Nov 12 j 14:37	0° \mathbb{M} 35'56	0°31'29
evening set	-2624 May 25 j 21:20	21° \mathbb{B} 41'30		morning rise	-2619 Nov 25 j 05:55	3° \mathbb{M} 31'41	
asc. node	-2624 May 31 j 05:02	22° \mathbb{B} 52'04			-2618 Jan 18 j 07:37	15° \mathbb{M}	
				retrograde	-2618 Apr 01 j 11:08	22° \mathbb{M} 24'42	
conjunction	-2624 Jun 08 j 13:18	24° \mathbb{B} 43'07	0°00'58	opposition	-2618 Jun 01 j 10:17	17° \mathbb{M} 29'16	0°13'28
minimum elong	-2624 Jun 08 j 13:18	24° \mathbb{B} 43'07	0°01'02	min. Earth dist.	-2618 Jun 02 j 00:15	17° \mathbb{M} 24'46	4.12406 AU
behind sun begin	-2624 Jun 08 j 04:59	24° \mathbb{B} 38'32			-2618 Jun 21 j 16:09	15° \mathbb{R} \mathbb{M}	
behind sun end	-2624 Jun 08 j 21:36	24° \mathbb{B} 47'42		direct	-2618 Jul 31 j 17:48	12° \mathbb{M} 35'01	
max. Earth dist.	-2624 Jun 09 j 04:37	24° \mathbb{B} 51'36	6.28895 AU	desc. node	-2618 Aug 17 j 17:02	13° \mathbb{M} 02'51	
morning rise	-2624 Jun 22 j 03:18	27° \mathbb{B} 43'35			-2618 Sep 09 j 02:41	15° \mathbb{M}	
	-2624 Jul 02 j 13:08	0° \mathbb{I}			-2618 Nov 27 j 03:17	0° \mathbb{J}	
retrograde	-2624 Oct 22 j 18:28	15° \mathbb{I} 22'30		evening set	-2618 Dec 03 j 06:18	1° \mathbb{J} 26'11	
opposition	-2624 Dec 21 j 11:21	10° \mathbb{I} 24'18	0°32'30				
min. Earth dist.	-2624 Dec 21 j 09:24	10° \mathbb{I} 24'57	4.33820 AU	conjunction	-2618 Dec 16 j 01:55	4° \mathbb{J} 28'20	-0°14'12
direct	-2623 Feb 20 j 15:01	5° \mathbb{I} 20'49		minimum elong	-2618 Dec 16 j 01:53	4° \mathbb{J} 28'19	0°14'16
evening set	-2623 Jun 28 j 06:38	23° \mathbb{I} 22'06		behind sun begin	-2618 Dec 15 j 21:54	4° \mathbb{J} 25'58	
				behind sun end	-2618 Dec 16 j 05:52	4° \mathbb{J} 30'40	
conjunction	-2623 Jul 11 j 14:53	26° \mathbb{I} 16'54	0°42'12	max. Earth dist.	-2618 Dec 15 j 18:47	4° \mathbb{J} 24'06	6.07137 AU
minimum elong	-2623 Jul 11 j 14:51	26° \mathbb{I} 16'52	0°42'16	morning rise	-2618 Dec 28 j 23:49	7° \mathbb{J} 31'50	
max. Earth dist.	-2623 Jul 11 j 03:36	26° \mathbb{I} 10'43	6.37688 AU	retrograde	-2617 May 08 j 09:52	27° \mathbb{J} 22'09	
morning rise	-2623 Jul 24 j 20:10	29° \mathbb{I} 10'08		opposition	-2617 Jul 08 j 01:15	22° \mathbb{J} 22'53	-0°55'41
	-2623 Jul 28 j 16:13	0° \mathbb{E}		min. Earth dist.	-2617 Jul 07 j 18:56	22° \mathbb{J} 24'58	4.02911 AU
retrograde	-2623 Nov 22 j 12:14	16° \mathbb{E} 14'24		direct	-2617 Sep 05 j 00:12	17° \mathbb{J} 29'46	
opposition	-2622 Jan 21 j 13:01	11° \mathbb{E} 19'51	1°24'38		-2617 Dec 09 j 05:21	0° \mathbb{Z}	
min. Earth dist.	-2622 Jan 22 j 04:10	11° \mathbb{E} 14'55	4.40202 AU	evening set	-2616 Jan 07 j 10:55	6° \mathbb{Z} 45'14	
direct	-2622 Mar 24 j 18:26	6° \mathbb{E} 16'31					
evening set	-2622 Jul 30 j 04:51	24° \mathbb{E} 04'56		conjunction	-2616 Jan 20 j 13:28	9° \mathbb{Z} 53'25	-0°56'10
max. Earth dist.	-2622 Aug 10 j 19:51	26° \mathbb{E} 36'57	6.41074 AU	minimum elong	-2616 Jan 20 j 13:25	9° \mathbb{Z} 53'23	0°56'15
				max. Earth dist.	-2616 Jan 21 j 12:04	10° \mathbb{Z} 06'58	6.00229 AU
conjunction	-2622 Aug 12 j 04:12	26° \mathbb{E} 54'38	1°10'34	morning rise	-2616 Feb 02 j 19:01	13° \mathbb{Z} 03'18	
minimum elong	-2622 Aug 12 j 04:10	26° \mathbb{E} 54'37	1°10'38		-2616 Apr 27 j 06:30	0° \mathbb{A}	
morning rise	-2622 Aug 25 j 00:21	29° \mathbb{E} 42'48		retrograde	-2616 Jun 14 j 01:09	3° \mathbb{A} 27'14	
	-2622 Aug 26 j 08:01	0° \mathbb{O}			-2616 Aug 01 j 01:16	30° \mathbb{R} \mathbb{Z}	
	-2622 Nov 20 j 11:16	15° \mathbb{O}		min. Earth dist.	-2616 Aug 12 j 04:54	28° \mathbb{Z} 31'50	3.99462 AU
retrograde	-2622 Dec 23 j 05:18	16° \mathbb{O} 38'51		opposition	-2616 Aug 13 j 03:36	28° \mathbb{Z} 24'13	-1°45'49
	-2621 Jan 25 j 02:51	15° \mathbb{R} \mathbb{O}		direct	-2616 Oct 10 j 05:53	23° \mathbb{Z} 30'07	
opposition	-2621 Feb 21 j 16:48	11° \mathbb{O} 46'38	1°52'45		-2616 Dec 14 j 07:45	0° \mathbb{A}	
min. Earth dist.	-2621 Feb 22 j 19:48	11° \mathbb{O} 37'58	4.40541 AU	evening set	-2615 Feb 12 j 04:53	12° \mathbb{A} 55'25	
direct	-2621 Apr 25 j 08:54	6° \mathbb{O} 44'39			-2615 Feb 20 j 22:41	15° \mathbb{A}	
	-2621 Jul 14 j 13:19	15° \mathbb{O}					
evening set	-2621 Aug 30 j 06:27	24° \mathbb{O} 33'08		conjunction	-2615 Feb 25 j 14:50	16° \mathbb{A} 06'45	-1°17'26
max. Earth dist.	-2621 Sep 10 j 03:55	26° \mathbb{O} 57'15	6.38233 AU	minimum elong	-2615 Feb 25 j 14:50	16° \mathbb{A} 06'44	1°17'28
				max. Earth dist.	-2615 Feb 27 j 10:22	16° \mathbb{A} 32'38	6.00412 AU
conjunction	-2621 Sep 11 j 22:47	27° \mathbb{O} 20'59	1°19'15	morning rise	-2615 Mar 11 j 04:05	19° \mathbb{A} 19'40	
minimum elong	-2621 Sep 11 j 22:47	27° \mathbb{O} 20'59	1°19'17		-2615 Apr 28 j 09:16	0° \mathbb{K}	
	-2621 Sep 23 j 22:31	0° \mathbb{M}		retrograde	-2615 Jul 20 j 18:54	9° \mathbb{K} 34'48	
morning rise	-2621 Sep 24 j 12:33	0° \mathbb{M} 07'43		min. Earth dist.	-2615 Sep 17 j 04:29	4° \mathbb{K} 40'26	4.03398 AU
retrograde	-2620 Jan 23 j 21:16	17° \mathbb{M} 21'55		opposition	-2615 Sep 18 j 12:03	4° \mathbb{K} 29'41	-1°55'02
opposition	-2620 Mar 24 j 17:27	12° \mathbb{M} 30'23	1°49'54		-2615 Oct 30 j 08:08	30° \mathbb{R} \mathbb{A}	
min. Earth dist.	-2620 Mar 26 j 02:01	12° \mathbb{M} 20'02	4.34751 AU	direct	-2615 Nov 15 j 12:22	29° \mathbb{A} 32'50	
direct	-2620 May 26 j 05:17	7° \mathbb{M} 30'47			-2615 Dec 01 j 19:43	0° \mathbb{K}	
evening set	-2620 Sep 29 j 05:53	25° \mathbb{M} 31'35		evening set	-2614 Mar 21 j 09:25	18° \mathbb{K} 47'39	

Attention, astronomical year style is used: The year -2614 in astronomical counting style is the year 2615 BCE in historical counting style.

conjunction	-2614 Apr 04 j 01:47	21° X 58'31	-1°09'11	minimum elong	-2609 Sep 16 j 05:32	1° M 44'32	1°18'41
minimum elong	-2614 Apr 04 j 01:50	21° X 58'32	1°09'11	morning rise	-2609 Sep 28 j 18:54	4° M 31'30	
max. Earth dist.	-2614 Apr 06 j 02:06	22° X 26'38	6.07656 AU	retrograde	-2608 Jan 28 j 10:19	21° M 50'47	
morning rise	-2614 Apr 17 j 20:05	25° X 10'09		opposition	-2608 Mar 29 j 07:26	16° M 59'12	1°46'51
	-2614 May 09 j 04:34	0° Y		min. Earth dist.	-2608 Mar 30 j 15:35	16° M 48'58	4.33364 AU
retrograde	-2614 Aug 24 j 18:56	14° Y 37'59		direct	-2608 May 30 j 16:19	12° M 00'00	
min. Earth dist.	-2614 Oct 22 j 02:48	9° Y 42'42	4.13113 AU	evening set	-2608 Oct 03 j 14:59	0° A 04'06	
opposition	-2614 Oct 23 j 05:56	9° Y 33'26	-1°21'36		-2608 Oct 03 j 07:41	0° A	
direct	-2614 Dec 21 j 01:59	4° Y 33'20		max. Earth dist.	-2608 Oct 14 j 11:16	2° A 31'18	6.28267 AU
evening set	-2613 Apr 26 j 19:06	23° Y 22'41					
conjunction	-2613 May 10 j 13:51	26° Y 29'36	-0°36'25	conjunction	-2608 Oct 16 j 04:26	2° A 54'41	1°01'49
minimum elong	-2613 May 10 j 13:53	26° Y 29'37	0°36'23	minimum elong	-2608 Oct 16 j 04:29	2° A 54'43	1°01'49
max. Earth dist.	-2613 May 12 j 01:54	26° Y 50'00	6.19060 AU	morning rise	-2608 Oct 28 j 16:51	5° A 45'00	
morning rise	-2613 May 24 j 08:17	29° Y 36'10		retrograde	-2607 Mar 02 j 00:51	23° A 48'41	
	-2613 May 26 j 02:48	0° B		opposition	-2607 May 02 j 01:32	18° A 55'45	1°07'19
	-2613 Aug 13 j 09:53	15° B		min. Earth dist.	-2607 May 03 j 04:12	18° A 47'15	4.22569 AU
retrograde	-2613 Sep 26 j 16:50	18° B 01'32		direct	-2607 Jul 02 j 12:47	13° A 59'27	
	-2613 Nov 09 j 22:42	15° R B			-2607 Oct 24 j 20:42	0° M	
opposition	-2613 Nov 25 j 04:51	12° B 59'59	-0°22'20	evening set	-2607 Nov 04 j 13:33	2° M 26'59	
min. Earth dist.	-2613 Nov 24 j 13:07	13° B 05'17	4.24997 AU	max. Earth dist.	-2607 Nov 16 j 01:08	5° M 07'04	6.16614 AU
direct	-2612 Jan 24 j 05:31	7° B 57'30		conjunction	-2607 Nov 17 j 04:53	5° M 23'14	0°25'30
	-2612 Apr 04 j 19:02	15° B		minimum elong	-2607 Nov 17 j 04:55	5° M 23'15	0°25'27
asc. node	-2612 Apr 10 j 00:31	15° B 55'44		morning rise	-2607 Nov 29 j 21:08	8° M 20'08	
evening set	-2612 May 30 j 15:35	26° B 18'10			-2607 Dec 29 j 14:35	15° M	
conjunction	-2612 Jun 13 j 06:33	29° B 18'42	0°07'09	retrograde	-2606 Apr 06 j 13:16	27° M 21'50	
minimum elong	-2612 Jun 13 j 06:32	29° B 18'41	0°07'12	opposition	-2606 Jun 06 j 12:15	22° M 25'55	0°03'39
behind sun begin	-2612 Jun 12 j 22:57	29° B 14'31		min. Earth dist.	-2606 Jun 06 j 22:42	22° M 22'33	4.10850 AU
behind sun end	-2612 Jun 13 j 14:07	29° B 22'52		desc. node	-2606 Jun 27 j 08:24	19° M 52'30	
max. Earth dist.	-2612 Jun 13 j 16:43	29° B 24'18	6.30550 AU	direct	-2606 Aug 05 j 14:54	17° M 31'59	
	-2612 Jun 16 j 09:12	0° I			-2606 Nov 09 j 22:23	0° J	
morning rise	-2612 Jun 26 j 19:35	2° I 18'03		evening set	-2606 Dec 08 j 02:25	6° J 26'52	
retrograde	-2612 Oct 27 j 02:48	19° I 50'15		conjunction	-2606 Dec 20 j 23:01	9° J 29'57	-0°20'43
opposition	-2612 Dec 25 j 19:55	14° I 52'38	0°40'49	minimum elong	-2606 Dec 20 j 23:00	9° J 29'56	0°20'47
min. Earth dist.	-2612 Dec 25 j 21:26	14° I 52'08	4.35146 AU	max. Earth dist.	-2606 Dec 20 j 21:41	9° J 29'09	6.05939 AU
direct	-2611 Feb 25 j 04:39	9° I 49'06		morning rise	-2605 Jan 02 j 21:45	12° J 34'22	
evening set	-2611 Jul 02 j 18:46	27° I 47'31			-2605 Apr 03 j 00:58	0° Z	
	-2611 Jul 12 j 22:01	0° E		retrograde	-2605 May 13 j 17:31	2° Z 30'45	
max. Earth dist.	-2611 Jul 15 j 11:41	0° E 33'42	6.38579 AU		-2605 Jun 23 j 11:57	30° R J	
conjunction	-2611 Jul 16 j 01:55	0° E 41'29	0°47'07	opposition	-2605 Jul 13 j 06:12	27° J 30'56	-1°04'27
minimum elong	-2611 Jul 16 j 01:52	0° E 41'27	0°47'11	min. Earth dist.	-2605 Jul 12 j 21:45	27° J 33'44	4.02213 AU
morning rise	-2611 Jul 29 j 05:48	3° E 33'49		direct	-2605 Sep 10 j 02:00	22° J 37'51	
retrograde	-2611 Nov 26 j 17:21	20° E 35'21			-2605 Nov 19 j 05:16	0° Z	
opposition	-2610 Jan 25 j 20:24	15° E 41'13	1°30'11	evening set	-2604 Jan 12 j 12:33	11° Z 54'49	
min. Earth dist.	-2610 Jan 26 j 12:54	15° E 35'51	4.40634 AU	conjunction	-2604 Jan 25 j 15:56	15° Z 03'27	-1°00'41
direct	-2610 Mar 29 j 02:57	10° E 38'03		minimum elong	-2604 Jan 25 j 15:53	15° Z 03'25	1°00'46
evening set	-2610 Aug 03 j 13:23	28° E 25'50		max. Earth dist.	-2604 Jan 26 j 17:31	15° Z 18'46	6.00064 AU
	-2610 Aug 10 j 18:19	0° O		morning rise	-2604 Feb 07 j 22:41	18° Z 13'51	
max. Earth dist.	-2610 Aug 15 j 00:52	0° O 56'06	6.41006 AU		-2604 Apr 01 j 09:02	0° A	
conjunction	-2610 Aug 16 j 11:31	1° O 15'04	1°13'03	retrograde	-2604 Jun 19 j 04:13	8° A 38'00	
minimum elong	-2610 Aug 16 j 11:28	1° O 15'03	1°13'06	min. Earth dist.	-2604 Aug 17 j 05:10	3° A 43'08	3.99880 AU
morning rise	-2610 Aug 29 j 06:34	4° O 02'50		opposition	-2604 Aug 18 j 06:42	3° A 34'33	-1°49'44
	-2610 Oct 23 j 10:18	15° O			-2604 Sep 17 j 04:19	30° R Z	
retrograde	-2610 Dec 27 j 14:20	21° O 00'09		direct	-2604 Oct 15 j 06:52	28° Z 40'09	
opposition	-2609 Feb 26 j 02:10	16° O 08'13	1°54'17		-2604 Nov 12 j 10:08	0° A	
min. Earth dist.	-2609 Feb 27 j 07:19	15° O 58'53	4.39991 AU	evening set	-2603 Feb 04 j 05:58	15° A	
	-2609 Mar 07 j 01:03	15° R O			-2603 Feb 17 j 08:34	18° A 03'53	
direct	-2609 Apr 29 j 19:20	11° O 06'34		conjunction	-2603 Mar 02 j 19:28	21° A 15'11	-1°18'02
	-2609 Jun 21 j 18:39	15° O		minimum elong	-2603 Mar 02 j 19:28	21° A 15'10	1°18'04
evening set	-2609 Sep 03 j 13:51	28° O 56'32		max. Earth dist.	-2603 Mar 04 j 16:35	21° A 41'57	6.01345 AU
	-2609 Sep 08 j 08:55	0° M		morning rise	-2603 Mar 16 j 09:25	24° A 27'57	
max. Earth dist.	-2609 Sep 14 j 08:43	1° M 19'40	6.37228 AU		-2603 Apr 09 j 11:15	0° X	
conjunction	-2609 Sep 16 j 05:31	1° M 44'31	1°18'40	retrograde	-2603 Jul 25 j 17:48	14° X 37'15	
				min. Earth dist.	-2603 Sep 22 j 02:51	9° X 42'30	4.04730 AU

Attention, astronomical year style is used: The year -2603 in astronomical counting style is the year 2604 BCE in historical counting style.

opposition	-2603 Sep 23 j 09:36	9° X 32'01	-1°52'38	conjunction	-2597 Sep 20 j 12:52	6° M 10'03	1°17'35
direct	-2603 Nov 20 j 13:02	4° X 34'39		minimum elong	-2597 Sep 20 j 12:53	6° M 10'03	1°17'37
evening set	-2602 Mar 26 j 11:02	23° X 45'35		morning rise	-2597 Oct 03 j 01:49	8° M 57'17	
				retrograde	-2596 Feb 02 j 01:15	26° M 21'45	
conjunction	-2602 Apr 09 j 04:02	26° X 56'00	-1°05'50	opposition	-2596 Apr 02 j 22:41	21° M 30'06	1°43'06
minimum elong	-2602 Apr 09 j 04:06	26° X 56'01	1°05'50	min. Earth dist.	-2596 Apr 04 j 07:05	21° M 19'48	4.32032 AU
max. Earth dist.	-2602 Apr 11 j 04:13	27° X 23'55	6.09267 AU	direct	-2596 Jun 04 j 06:34	16° M 31'18	
morning rise	-2602 Apr 22 j 22:35	0° Y 07'00			-2596 Sep 17 j 01:17	0° A	
	-2602 Apr 22 j 10:23	0° Y		evening set	-2596 Oct 08 j 00:54	4° A 38'05	
retrograde	-2602 Aug 29 j 09:30	19° Y 25'50		max. Earth dist.	-2596 Oct 18 j 21:44	7° A 06'09	6.26801 AU
opposition	-2602 Oct 27 j 20:36	14° Y 21'36	-1°14'28				
min. Earth dist.	-2602 Oct 26 j 18:21	14° Y 30'33	4.14831 AU	conjunction	-2596 Oct 20 j 14:20	7° A 29'16	0°57'43
direct	-2602 Dec 25 j 19:08	9° Y 21'07		minimum elong	-2596 Oct 20 j 14:23	7° A 29'18	0°57'43
evening set	-2601 May 01 j 15:54	28° Y 06'06		morning rise	-2596 Nov 02 j 03:08	10° A 20'20	
	-2601 May 10 j 02:22	0° B		retrograde	-2595 Mar 06 j 20:04	28° A 31'04	
				opposition	-2595 May 06 j 22:01	23° A 37'45	0°59'29
conjunction	-2601 May 15 j 10:19	1° B 12'12	-0°30'45	min. Earth dist.	-2595 May 07 j 21:56	23° A 30'07	4.21058 AU
minimum elong	-2601 May 15 j 10:21	1° B 12'13	0°30'42	direct	-2595 Jul 07 j 04:45	18° A 41'46	
max. Earth dist.	-2601 May 16 j 17:20	1° B 29'42	6.20742 AU		-2595 Oct 07 j 18:35	0° M	
morning rise	-2601 May 29 j 04:28	4° B 17'52		evening set	-2595 Nov 09 j 03:21	7° M 12'25	
	-2601 Jul 19 j 17:42	15° B					
retrograde	-2601 Oct 01 j 02:00	22° B 35'10		conjunction	-2595 Nov 21 j 19:21	10° M 09'30	0°19'19
opposition	-2601 Nov 29 j 14:24	17° B 34'06	-0°13'28	minimum elong	-2595 Nov 21 j 19:22	10° M 09'31	0°19'16
min. Earth dist.	-2601 Nov 29 j 01:48	17° B 38'20	4.26490 AU	max. Earth dist.	-2595 Nov 20 j 20:02	9° M 55'53	6.15193 AU
	-2601 Dec 19 j 16:36	15° B		morning rise	-2595 Dec 04 j 12:11	13° M 07'19	
direct	-2600 Jan 28 j 20:16	12° B 31'20			-2595 Dec 12 j 15:31	15° M	
asc. node	-2600 Feb 19 j 23:31	13° B 17'27			-2594 Mar 03 j 20:27	0° X	
	-2600 Mar 09 j 10:56	15° B		retrograde	-2594 Apr 11 j 16:19	2° X 16'22	
	-2600 May 31 j 13:29	0° H		desc. node	-2594 May 07 j 11:26	1° X 14'33	
evening set	-2600 Jun 04 j 06:42	0° H 48'47			-2594 May 20 j 17:50	30° R M	
				opposition	-2594 Jun 11 j 13:30	27° M 19'58	-0°06'10
conjunction	-2600 Jun 17 j 20:58	3° H 48'29	0°13'06	min. Earth dist.	-2594 Jun 11 j 22:14	27° M 17'09	4.09615 AU
minimum elong	-2600 Jun 17 j 20:57	3° H 48'28	0°13'09	direct	-2594 Aug 10 j 12:34	22° M 26'15	
behind sun begin	-2600 Jun 17 j 16:14	3° H 45'53			-2594 Oct 21 j 15:08	0° X	
behind sun end	-2600 Jun 18 j 01:40	3° H 51'04		evening set	-2594 Dec 12 j 21:38	11° X 23'50	
max. Earth dist.	-2600 Jun 18 j 04:33	3° H 52'39	6.31754 AU				
morning rise	-2600 Jul 01 j 08:46	6° H 46'52		conjunction	-2594 Dec 25 j 18:56	14° X 27'40	-0°27'03
retrograde	-2600 Oct 31 j 07:48	24° H 14'03		minimum elong	-2594 Dec 25 j 18:54	14° X 27'38	0°27'07
opposition	-2600 Dec 30 j 02:42	19° H 16'59	0°48'42	max. Earth dist.	-2594 Dec 25 j 20:12	14° X 28'25	6.04984 AU
min. Earth dist.	-2600 Dec 30 j 05:50	19° H 15'57	4.35998 AU	morning rise	-2593 Jan 07 j 18:50	17° X 32'59	
direct	-2599 Mar 01 j 13:51	14° H 13'26			-2593 Mar 06 j 07:04	0° B	
	-2599 Jun 27 j 03:02	0° E		retrograde	-2593 May 18 j 20:14	7° B 34'26	
evening set	-2599 Jul 07 j 05:48	2° E 10'31		opposition	-2593 Jul 18 j 09:04	2° B 34'05	-1°12'40
				min. Earth dist.	-2593 Jul 17 j 21:11	2° B 38'00	4.01654 AU
conjunction	-2599 Jul 20 j 11:35	5° E 03'46	0°51'41		-2593 Aug 07 j 20:35	30° R X	
minimum elong	-2599 Jul 20 j 11:32	5° E 03'45	0°51'44	direct	-2593 Sep 15 j 00:25	27° X 40'57	
max. Earth dist.	-2599 Jul 19 j 16:50	4° E 53'31	6.39011 AU		-2593 Oct 22 j 17:11	0° B	
morning rise	-2599 Aug 02 j 14:22	7° E 55'27		evening set	-2592 Jan 17 j 12:51	16° B 59'21	
retrograde	-2599 Dec 01 j 00:39	24° E 55'40					
opposition	-2598 Jan 30 j 03:41	20° E 01'56	1°35'11	conjunction	-2592 Jan 30 j 17:16	20° B 08'27	-1°04'43
min. Earth dist.	-2598 Jan 30 j 23:09	19° E 55'38	4.40650 AU	minimum elong	-2592 Jan 30 j 17:13	20° B 08'26	1°04'46
direct	-2598 Apr 02 j 13:31	14° E 58'53		max. Earth dist.	-2592 Jan 31 j 22:15	20° B 25'49	5.99936 AU
	-2598 Jul 25 j 22:37	0° O		morning rise	-2592 Feb 13 j 00:55	23° B 19'20	
evening set	-2598 Aug 07 j 21:40	2° O 47'07			-2592 Mar 13 j 00:08	0° A	
max. Earth dist.	-2598 Aug 19 j 06:51	5° O 16'22	6.40594 AU	retrograde	-2592 Jun 24 j 07:24	13° A 43'41	
				min. Earth dist.	-2592 Aug 22 j 05:47	8° A 48'38	4.00206 AU
conjunction	-2598 Aug 20 j 18:54	5° O 36'07	1°15'05	opposition	-2592 Aug 23 j 07:44	8° A 39'52	-1°52'50
minimum elong	-2598 Aug 20 j 18:52	5° O 36'06	1°15'09	direct	-2592 Oct 20 j 08:27	3° A 45'07	
morning rise	-2598 Sep 02 j 12:56	8° O 23'39			-2591 Jan 17 j 13:19	15° A	
	-2598 Oct 03 j 23:15	15° O		evening set	-2591 Feb 22 j 11:11	23° A 08'06	
retrograde	-2598 Dec 31 j 22:13	25° O 23'15					
opposition	-2597 Mar 02 j 12:27	20° O 31'25	1°55'09	conjunction	-2591 Mar 07 j 23:09	26° A 19'31	-1°18'04
min. Earth dist.	-2597 Mar 03 j 17:27	20° O 22'08	4.39210 AU	minimum elong	-2591 Mar 07 j 23:09	26° A 19'31	1°18'06
direct	-2597 May 04 j 04:15	15° O 30'04		max. Earth dist.	-2591 Mar 09 j 22:20	26° A 47'26	6.02087 AU
	-2597 Aug 23 j 10:16	0° M		morning rise	-2591 Mar 21 j 13:56	29° A 32'18	
evening set	-2597 Sep 07 j 21:47	3° M 21'53			-2591 Mar 23 j 13:13	0° X	
max. Earth dist.	-2597 Sep 18 j 16:47	5° M 45'30	6.36141 AU	retrograde	-2591 Jul 30 j 15:28	19° X 36'29	

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Attention, astronomical year style is used: The year -2591 in astronomical counting style is the year 2592 BCE in historical counting style.

min. Earth dist.	-2591 Sep 26 j 23:05	14° H 41'48	4.05814 AU	morning rise	-2585 Oct 07 j 09:14	13° M 25'09	
opposition	-2591 Sep 28 j 05:55	14° H 31'17	-1°49'29		-2584 Jan 13 j 12:58	0° A	
direct	-2591 Nov 25 j 10:05	9° H 33'31		retrograde	-2584 Feb 06 j 13:50	0° A 53'33	
evening set	-2590 Mar 31 j 12:20	28° H 41'49			-2584 Mar 01 j 18:15	30° R M	
	-2590 Apr 06 j 04:07	0° Y		opposition	-2584 Apr 07 j 13:53	26° M 01'42	1°38'45
				min. Earth dist.	-2584 Apr 08 j 20:24	25° M 52'01	4.31122 AU
conjunction	-2590 Apr 14 j 05:46	1° Y 51'52	-1°02'03	direct	-2584 Jun 08 j 18:42	21° M 03'18	
minimum elong	-2590 Apr 14 j 05:49	1° Y 51'54	1°02'03		-2584 Aug 30 j 04:12	0° A	
max. Earth dist.	-2590 Apr 16 j 02:52	2° Y 17'55	6.10587 AU	evening set	-2584 Oct 12 j 09:53	9° A 11'13	
morning rise	-2590 Apr 28 j 00:46	5° Y 02'27		max. Earth dist.	-2584 Oct 23 j 09:17	11° A 41'06	6.25780 AU
retrograde	-2590 Sep 03 j 00:14	24° Y 13'40					
min. Earth dist.	-2590 Oct 31 j 11:08	19° Y 18'03	4.16230 AU	conjunction	-2584 Oct 24 j 23:21	12° A 02'50	0°53'20
opposition	-2590 Nov 01 j 11:30	19° Y 09'45	-1°06'52	minimum elong	-2584 Oct 24 j 23:23	12° A 02'52	0°53'19
direct	-2590 Dec 30 j 14:01	14° Y 08'52		morning rise	-2584 Nov 06 j 12:20	14° A 54'26	
	-2589 Apr 23 j 16:47	0° B			-2583 Jan 24 j 05:20	0° M	
evening set	-2589 May 06 j 13:11	2° B 50'46		retrograde	-2583 Mar 11 j 16:01	3° M 10'50	
					-2583 Apr 27 j 23:59	30° R A	
conjunction	-2589 May 20 j 07:35	5° B 56'14	-0°24'50	opposition	-2583 May 11 j 17:22	28° A 17'09	0°51'23
minimum elong	-2589 May 20 j 07:37	5° B 56'15	0°24'47	min. Earth dist.	-2583 May 12 j 16:29	28° A 09'46	4.19961 AU
max. Earth dist.	-2589 May 21 j 12:43	6° B 12'37	6.22136 AU	direct	-2583 Jul 11 j 21:45	23° A 21'30	
morning rise	-2589 Jun 03 j 01:04	9° B 01'03			-2583 Sep 18 j 05:51	0° M	
	-2589 Jun 30 j 15:21	15° B		evening set	-2583 Nov 13 j 15:18	11° M 53'49	
retrograde	-2589 Oct 05 j 12:19	27° B 11'20		max. Earth dist.	-2583 Nov 25 j 10:14	14° M 38'59	6.14121 AU
opposition	-2589 Dec 04 j 00:59	22° B 10'52	-0°04'24				
min. Earth dist.	-2589 Dec 03 j 14:14	22° B 14'29	4.27748 AU	conjunction	-2583 Nov 26 j 07:44	14° M 51'34	0°13'09
asc. node	-2589 Dec 31 j 00:22	18° B 52'41		minimum elong	-2583 Nov 26 j 07:45	14° M 51'34	0°13'06
direct	-2588 Feb 02 j 10:23	17° B 08'00		behind sun begin	-2583 Nov 26 j 02:50	14° M 48'42	
	-2588 May 14 j 18:20	0° H		behind sun end	-2583 Nov 26 j 12:40	14° M 54'26	
evening set	-2588 Jun 08 j 23:26	5° H 23'03			-2583 Nov 26 j 22:10	15° M	
				morning rise	-2583 Dec 09 j 01:24	17° M 50'10	
conjunction	-2588 Jun 22 j 12:38	8° H 21'55	0°19'04		-2582 Feb 04 j 07:51	0° A	
minimum elong	-2588 Jun 22 j 12:36	8° H 21'55	0°19'08	desc. node	-2582 Mar 18 j 23:13	5° A 49'36	
max. Earth dist.	-2588 Jun 22 j 15:13	8° H 23'21	6.32780 AU	retrograde	-2582 Apr 16 j 13:52	7° A 05'17	
morning rise	-2588 Jul 05 j 23:31	11° H 19'28		opposition	-2582 Jun 16 j 11:39	2° A 08'21	-0°15'42
retrograde	-2588 Nov 04 j 16:11	28° H 42'22		min. Earth dist.	-2582 Jun 16 j 17:09	2° A 06'34	4.08659 AU
opposition	-2587 Jan 03 j 11:33	23° H 45'49	0°56'29		-2582 Jul 03 j 13:12	30° R M	
min. Earth dist.	-2587 Jan 03 j 17:25	23° H 43'54	4.36743 AU	direct	-2582 Aug 15 j 05:32	27° M 14'46	
direct	-2587 Mar 06 j 02:59	18° H 42'18			-2582 Sep 26 j 01:53	0° A	
	-2587 Jun 10 j 00:16	0° B		evening set	-2582 Dec 17 j 14:21	16° A 14'23	
evening set	-2587 Jul 11 j 18:05	6° B 38'12					
				conjunction	-2582 Dec 30 j 12:30	19° A 18'53	-0°33'01
conjunction	-2587 Jul 24 j 22:50	9° B 30'50	0°56'03	minimum elong	-2582 Dec 30 j 12:27	19° A 18'51	0°33'06
minimum elong	-2587 Jul 24 j 22:47	9° B 30'48	0°56'07	max. Earth dist.	-2582 Dec 30 j 17:15	19° A 21'43	6.04226 AU
max. Earth dist.	-2587 Jul 24 j 03:01	9° B 20'00	6.39432 AU	morning rise	-2581 Jan 12 j 13:15	22° A 24'55	
morning rise	-2587 Aug 07 j 00:11	12° B 21'48			-2581 Feb 14 j 19:18	0° B	
retrograde	-2587 Dec 05 j 07:21	29° B 20'52		retrograde	-2581 May 23 j 21:30	12° B 30'42	
opposition	-2586 Feb 03 j 13:00	24° B 27'32	1°39'46	opposition	-2581 Jul 23 j 08:24	7° B 29'48	-1°20'07
min. Earth dist.	-2586 Feb 04 j 08:56	24° B 21'05	4.40763 AU	min. Earth dist.	-2581 Jul 22 j 19:29	7° B 34'05	4.01173 AU
direct	-2586 Apr 06 j 23:46	19° B 24'46		direct	-2581 Sep 19 j 22:01	2° B 36'31	
	-2586 Jul 08 j 16:35	0° Q		evening set	-2580 Jan 22 j 10:15	21° B 56'21	
evening set	-2586 Aug 12 j 07:17	7° Q 12'49					
max. Earth dist.	-2586 Aug 23 j 13:23	9° Q 40'37	6.40395 AU	conjunction	-2580 Feb 04 j 15:43	25° B 05'59	-1°08'09
				minimum elong	-2580 Feb 04 j 15:40	25° B 05'58	1°08'13
conjunction	-2586 Aug 25 j 03:17	10° Q 01'25	1°16'46	max. Earth dist.	-2580 Feb 05 j 23:29	25° B 24'59	5.99767 AU
minimum elong	-2586 Aug 25 j 03:16	10° Q 01'25	1°16'50	morning rise	-2580 Feb 18 j 00:26	28° B 17'22	
morning rise	-2586 Sep 06 j 20:28	12° Q 48'39			-2580 Feb 25 j 06:16	0° A	
	-2586 Sep 16 j 23:02	15° Q			-2580 May 10 j 20:49	15° A	
retrograde	-2585 Jan 05 j 09:21	29° Q 49'52		retrograde	-2580 Jun 29 j 07:23	18° A 41'56	
opposition	-2585 Mar 07 j 00:14	24° Q 58'11	1°55'24		-2580 Aug 17 j 23:27	15° R A	
min. Earth dist.	-2585 Mar 08 j 06:33	24° Q 48'31	4.38732 AU	min. Earth dist.	-2580 Aug 27 j 02:25	13° A 46'59	4.00403 AU
direct	-2585 May 08 j 17:27	19° Q 57'11		opposition	-2580 Aug 28 j 05:27	13° A 37'51	-1°55'02
	-2585 Aug 06 j 01:12	0° M		direct	-2580 Oct 25 j 04:34	8° A 42'45	
evening set	-2585 Sep 12 j 06:03	7° M 49'31			-2580 Dec 28 j 04:59	15° A	
max. Earth dist.	-2585 Sep 23 j 01:03	10° M 13'26	6.35425 AU	evening set	-2579 Feb 27 j 11:30	28° A 05'44	
					-2579 Mar 07 j 13:25	0° H	
conjunction	-2585 Sep 24 j 20:41	10° M 37'45	1°16'07				
minimum elong	-2585 Sep 24 j 20:42	10° M 37'46	1°16'07	conjunction	-2579 Mar 13 j 00:16	1° H 17'18	-1°17'32

Planetary Phenomena of Jupiter from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 29

Attention, astronomical year style is used: The year -2579 in astronomical counting style is the year 2580 BCE in historical counting style.

minimum elong	-2579 Mar 13 j 00:17	1° X 17'19	1°17'33		-2574 Nov 17 j 00:04	0° M	
max. Earth dist.	-2579 Mar 14 j 22:26	1° X 44'34	6.02612 AU	retrograde	-2573 Jan 09 j 17:18	4° M 12'33	
morning rise	-2579 Mar 26 j 16:01	4° X 30'13			-2573 Mar 06 j 07:54	30° R Ω	
retrograde	-2579 Aug 04 j 09:56	24° X 30'13		opposition	-2573 Mar 11 j 10:46	29° Ω 20'57	1°55'02
opposition	-2579 Oct 02 j 23:51	19° X 25'01	-1°45'41	min. Earth dist.	-2573 Mar 12 j 16:57	29° Ω 11'20	4.38125 AU
min. Earth dist.	-2579 Oct 01 j 17:28	19° X 35'24	4.06615 AU	direct	-2573 May 13 j 02:38	24° Ω 20'17	
direct	-2579 Nov 30 j 05:44	14° X 26'47			-2573 Jul 16 j 19:31	0° M	
	-2578 Mar 20 j 18:57	0° Y		evening set	-2573 Sep 16 j 13:03	12° M 13'41	
evening set	-2578 Apr 05 j 12:10	3° Y 33'37		max. Earth dist.	-2573 Sep 27 j 06:44	14° M 37'17	6.34451 AU
conjunction	-2578 Apr 19 j 06:18	6° Y 43'30	-0°57'54	conjunction	-2573 Sep 29 j 03:05	15° M 02'05	1°14'12
minimum elong	-2578 Apr 19 j 06:22	6° Y 43'32	0°57'54	minimum elong	-2573 Sep 29 j 03:07	15° M 02'06	1°14'14
max. Earth dist.	-2578 Apr 21 j 03:12	7° Y 09'21	6.11629 AU	morning rise	-2573 Oct 11 j 15:29	17° M 49'48	
morning rise	-2578 May 03 j 01:23	9° Y 53'40			-2573 Dec 11 j 15:16	0° Ω	
retrograde	-2578 Sep 07 j 15:20	28° Y 58'09		retrograde	-2572 Feb 11 j 05:16	5° Ω 23'22	
min. Earth dist.	-2578 Nov 05 j 02:26	24° Y 02'23	4.17399 AU	opposition	-2572 Apr 12 j 04:51	0° Ω 31'24	1°33'51
opposition	-2578 Nov 06 j 01:11	23° Y 54'39	-0°58'56	min. Earth dist.	-2572 Apr 13 j 11:56	0° Ω 21'31	4.29811 AU
direct	-2577 Jan 04 j 07:15	18° Y 53'28			-2572 Apr 16 j 07:43	30° R M	
	-2577 Apr 06 j 05:56	0° Z		direct	-2572 Jun 13 j 08:06	25° M 33'20	
evening set	-2577 May 11 j 09:55	7° Z 32'58			-2572 Aug 08 j 05:57	0° Ω	
conjunction	-2577 May 25 j 03:54	10° Z 37'47	-0°18'49	evening set	-2572 Oct 16 j 18:54	13° Ω 44'02	
minimum elong	-2577 May 25 j 03:56	10° Z 37'48	0°18'47	max. Earth dist.	-2572 Oct 27 j 19:48	16° Ω 15'17	6.24247 AU
max. Earth dist.	-2577 May 26 j 05:22	10° Z 52'04	6.23347 AU	conjunction	-2572 Oct 29 j 08:37	16° Ω 36'23	0°48'36
morning rise	-2577 Jun 07 j 21:00	13° Z 41'53		minimum elong	-2572 Oct 29 j 08:40	16° Ω 36'24	0°48'34
	-2577 Jun 13 j 17:56	15° Z		morning rise	-2572 Nov 10 j 22:01	19° Ω 28'48	
	-2577 Sep 06 j 13:05	0° Π			-2572 Dec 30 j 15:29	0° M	
retrograde	-2577 Oct 09 j 21:41	1° Π 45'44		retrograde	-2571 Mar 16 j 11:27	7° M 52'53	
asc. node	-2577 Nov 10 j 08:24	0° Π 10'23		opposition	-2571 May 16 j 13:26	2° M 58'52	0°42'52
	-2577 Nov 12 j 02:21	30° R Z		min. Earth dist.	-2571 May 17 j 10:00	2° M 52'17	4.18306 AU
opposition	-2577 Dec 08 j 11:16	26° Z 45'44	0°04'35		-2571 Jun 10 j 14:25	30° R Ω	
min. Earth dist.	-2577 Dec 08 j 02:15	26° Z 48'45	4.28906 AU	direct	-2571 Jul 16 j 12:01	28° Ω 03'34	
direct	-2576 Feb 07 j 00:50	21° Z 42'38			-2571 Aug 21 j 00:42	0° M	
	-2576 Apr 26 j 02:47	0° Π		evening set	-2571 Nov 11 j 00:48	15° M	
evening set	-2576 Jun 13 j 15:21	9° Π 55'18			-2571 Nov 18 j 05:23	16° M 39'57	
conjunction	-2576 Jun 27 j 03:38	12° Π 53'21	0°24'54	conjunction	-2571 Nov 30 j 22:26	19° M 38'40	0°06'47
minimum elong	-2576 Jun 27 j 03:36	12° Π 53'20	0°24'58	minimum elong	-2571 Nov 30 j 22:27	19° M 38'41	0°06'44
max. Earth dist.	-2576 Jun 27 j 04:34	12° Π 53'51	6.33807 AU	behind sun begin	-2571 Nov 30 j 14:58	19° M 34'18	
morning rise	-2576 Jul 10 j 13:10	15° Π 49'56		behind sun end	-2571 Dec 01 j 05:57	19° M 43'04	
	-2576 Sep 24 j 11:26	0° Z		max. Earth dist.	-2571 Nov 30 j 04:02	19° M 27'52	6.12493 AU
retrograde	-2576 Nov 08 j 23:14	3° Z 08'23		morning rise	-2571 Dec 13 j 16:58	22° M 38'22	
	-2576 Dec 24 j 20:08	30° R Π			-2570 Jan 15 j 10:22	0° Z	
opposition	-2575 Jan 07 j 19:54	28° Π 12'19	1°03'53	desc. node	-2570 Jan 27 j 09:47	2° Z 27'54	
min. Earth dist.	-2575 Jan 08 j 03:20	28° Π 09'53	4.37564 AU	retrograde	-2570 Apr 21 j 17:15	12° Z 01'55	
direct	-2575 Mar 10 j 14:43	23° Π 08'50		opposition	-2570 Jun 21 j 12:58	7° Z 04'28	-0°25'25
	-2575 May 21 j 14:09	0° Z		min. Earth dist.	-2570 Jun 21 j 16:46	7° Z 03'14	4.07182 AU
evening set	-2575 Jul 16 j 05:34	11° Z 02'56		direct	-2570 Aug 20 j 03:08	2° Z 11'03	
max. Earth dist.	-2575 Jul 28 j 09:19	13° Z 41'54	6.39945 AU	evening set	-2570 Dec 22 j 11:02	21° Z 14'48	
conjunction	-2575 Jul 29 j 08:53	13° Z 54'47	1°00'05	conjunction	-2569 Jan 04 j 10:12	24° Z 20'15	-0°38'57
minimum elong	-2575 Jul 29 j 08:50	13° Z 54'45	1°00'09	minimum elong	-2569 Jan 04 j 10:09	24° Z 20'14	0°39'01
morning rise	-2575 Aug 11 j 09:05	16° Z 45'02		max. Earth dist.	-2569 Jan 04 j 18:53	24° Z 25'26	6.03042 AU
	-2575 Oct 20 j 14:36	0° Ω		morning rise	-2569 Jan 17 j 12:05	27° Z 27'19	
retrograde	-2575 Dec 09 j 14:48	3° Ω 42'33			-2569 Jan 28 j 07:46	0° Z	
	-2574 Jan 29 j 16:31	30° R Z		retrograde	-2569 May 29 j 03:19	17° Z 38'50	
opposition	-2574 Feb 07 j 21:23	28° Z 49'28	1°43'44	opposition	-2569 Jul 28 j 12:07	12° Z 37'31	-1°27'17
min. Earth dist.	-2574 Feb 08 j 19:24	28° Z 42'22	4.40937 AU	min. Earth dist.	-2569 Jul 27 j 20:32	12° Z 42'42	4.00437 AU
direct	-2574 Apr 11 j 10:44	23° Z 46'48		direct	-2569 Sep 24 j 21:52	7° Z 44'11	
	-2574 Jun 18 j 22:27	0° Ω		evening set	-2568 Jan 27 j 13:16	27° Z 06'32	
evening set	-2574 Aug 16 j 15:12	11° Ω 34'20			-2568 Feb 08 j 15:45	0° \approx	
max. Earth dist.	-2574 Aug 27 j 20:15	14° Ω 01'40	6.40178 AU	conjunction	-2568 Feb 09 j 19:41	0° \approx 16'43	-1°11'13
conjunction	-2574 Aug 29 j 10:22	14° Ω 22'37	1°18'01	minimum elong	-2568 Feb 09 j 19:39	0° \approx 16'42	1°11'17
minimum elong	-2574 Aug 29 j 10:21	14° Ω 22'37	1°18'03	max. Earth dist.	-2568 Feb 11 j 05:20	0° \approx 36'51	5.99530 AU
	-2574 Sep 01 j 06:20	15° Ω		morning rise	-2568 Feb 23 j 05:35	3° \approx 28'41	
morning rise	-2574 Sep 11 j 02:28	17° Ω 09'33			-2568 Apr 15 j 11:01	15° \approx	

Attention, astronomical year style is used: The year -2568 in astronomical counting style is the year 2569 BCE in historical counting style.

retrograde	-2568 Jul 04 j 10:23	23° \approx 53'16				-2563 Sep 28 j 17:40	0° Ω	
min. Earth dist.	-2568 Sep 01 j 03:02	18° \approx 58'34	4.00722 AU	retrograde		-2563 Dec 13 j 17:59	7° Ω 55'27	
opposition	-2568 Sep 02 j 07:37	18° \approx 48'53	-1°56'27	opposition		-2562 Feb 12 j 02:26	3° Ω 02'40	1°46'59
	-2568 Oct 04 j 17:09	15° \approx		min. Earth dist.		-2562 Feb 13 j 02:21	2° Ω 54'59	4.41124 AU
direct	-2568 Oct 30 j 06:18	13° \approx 53'26				-2562 Mar 09 j 13:19	30° \approx	
	-2568 Nov 24 j 20:45	15° \approx		direct		-2562 Apr 15 j 17:12	28° \approx 00'10	
	-2567 Feb 18 j 15:09	0° \approx				-2562 May 23 j 01:09	0° Ω	
evening set	-2567 Mar 04 j 16:52	3° \approx 15'53				-2562 Aug 17 j 04:32	15° Ω	
				evening set		-2562 Aug 20 j 19:16	15° Ω 47'12	
conjunction	-2567 Mar 18 j 06:47	6° \approx 27'31	-1°16'25	max. Earth dist.		-2562 Aug 31 j 19:30	18° Ω 12'10	6.39779 AU
minimum elong	-2567 Mar 18 j 06:48	6° \approx 27'32	1°16'26					
max. Earth dist.	-2567 Mar 20 j 07:44	6° \approx 56'21	6.03493 AU	conjunction		-2562 Sep 02 j 13:23	18° Ω 35'14	1°18'46
morning rise	-2567 Mar 31 j 23:08	9° \approx 40'19		minimum elong		-2562 Sep 02 j 13:22	18° Ω 35'13	1°18'48
retrograde	-2567 Aug 09 j 09:06	29° \approx 34'01		morning rise		-2562 Sep 15 j 04:52	21° Ω 22'00	
opposition	-2567 Oct 07 j 21:20	24° \approx 28'57	-1°40'58			-2562 Oct 26 j 22:54	0° \approx	
min. Earth dist.	-2567 Oct 06 j 15:28	24° \approx 39'09	4.07975 AU	retrograde		-2561 Jan 14 j 01:01	8° \approx 27'47	
direct	-2567 Dec 05 j 06:07	19° \approx 30'20		opposition		-2561 Mar 15 j 18:34	3° \approx 36'12	1°54'03
	-2566 Mar 02 j 11:16	0° \approx		min. Earth dist.		-2561 Mar 17 j 02:33	3° \approx 26'00	4.37163 AU
evening set	-2566 Apr 10 j 15:04	8° \approx 33'17				-2561 Apr 16 j 10:52	30° \approx	
				direct		-2561 May 17 j 09:57	28° Ω 35'43	
conjunction	-2566 Apr 24 j 09:24	11° \approx 42'31	-0°53'17			-2561 Jun 17 j 09:18	0° \approx	
minimum elong	-2566 Apr 24 j 09:28	11° \approx 42'33	0°53'15	evening set		-2561 Sep 20 j 17:13	16° \approx 31'29	
max. Earth dist.	-2566 Apr 26 j 04:40	12° \approx 07'20	6.13366 AU	max. Earth dist.		-2561 Oct 01 j 11:10	18° \approx 55'41	6.32999 AU
morning rise	-2566 May 08 j 04:40	14° \approx 51'57						
	-2566 Jul 24 j 10:11	0° \approx		conjunction		-2561 Oct 03 j 07:10	19° \approx 20'22	1°11'57
retrograde	-2566 Sep 12 j 04:46	3° \approx 46'49		minimum elong		-2561 Oct 03 j 07:12	19° \approx 20'23	1°11'58
	-2566 Nov 01 j 04:59	30° \approx		morning rise		-2561 Oct 15 j 19:20	22° \approx 08'36	
opposition	-2566 Nov 10 j 16:07	28° \approx 43'40	-0°50'34			-2561 Nov 21 j 16:15	0° \approx	
min. Earth dist.	-2566 Nov 09 j 17:58	28° \approx 51'11	4.19340 AU	retrograde		-2560 Feb 15 j 17:42	9° \approx 49'05	
direct	-2565 Jan 09 j 02:25	23° \approx 42'06		opposition		-2560 Apr 16 j 18:07	4° \approx 56'56	1°28'32
	-2565 Mar 16 j 14:34	0° \approx		min. Earth dist.		-2560 Apr 18 j 00:22	4° \approx 47'19	4.27953 AU
evening set	-2565 May 16 j 06:37	12° \approx 16'15				-2560 Jun 14 j 19:56	30° \approx	
	-2565 May 28 j 12:20	15° \approx		direct		-2560 Jun 17 j 16:50	29° \approx 59'14	
						-2560 Jun 20 j 13:49	0° \approx	
conjunction	-2565 May 30 j 00:04	15° \approx 19'58	-0°12'43	evening set		-2560 Oct 21 j 03:06	18° \approx 14'42	
minimum elong	-2565 May 30 j 00:05	15° \approx 19'59	0°12'40	max. Earth dist.		-2560 Nov 01 j 05:06	20° \approx 47'20	6.22135 AU
behind sun begin	-2565 May 29 j 18:59	15° \approx 17'08						
behind sun end	-2565 May 30 j 05:11	15° \approx 22'49		conjunction		-2560 Nov 02 j 17:03	21° \approx 08'02	0°43'39
max. Earth dist.	-2565 May 30 j 22:57	15° \approx 32'45	6.25355 AU	minimum elong		-2560 Nov 02 j 17:06	21° \approx 08'03	0°43'37
morning rise	-2565 Jun 12 j 16:12	18° \approx 22'49		morning rise		-2560 Nov 15 j 07:07	24° \approx 01'37	
	-2565 Aug 09 j 02:45	0° \approx				-2560 Dec 12 j 03:18	0° \approx	
asc. node	-2565 Sep 21 j 05:16	5° \approx 26'19		retrograde		-2559 Mar 21 j 10:30	12° \approx 35'43	
retrograde	-2565 Oct 14 j 06:29	6° \approx 17'35		opposition		-2559 May 21 j 10:19	7° \approx 41'17	0°34'06
opposition	-2565 Dec 12 j 20:25	1° \approx 18'08	0°13'23	min. Earth dist.		-2559 May 22 j 05:39	7° \approx 35'04	4.16074 AU
min. Earth dist.	-2565 Dec 12 j 14:01	1° \approx 20'16	4.30793 AU	direct		-2559 Jul 21 j 04:35	2° \approx 46'16	
	-2565 Dec 22 j 17:03	30° \approx				-2559 Oct 25 j 06:16	15° \approx	
direct	-2564 Feb 11 j 15:36	26° \approx 14'53		evening set		-2559 Nov 22 j 20:34	21° \approx 28'44	
	-2564 Apr 02 j 17:13	0° \approx						
evening set	-2564 Jun 18 j 04:51	14° \approx 22'36		conjunction		-2559 Dec 05 j 14:34	24° \approx 28'45	0°00'18
				minimum elong		-2559 Dec 05 j 14:34	24° \approx 28'45	0°00'14
conjunction	-2564 Jul 01 j 15:54	17° \approx 19'28	0°30'25	behind sun begin		-2559 Dec 05 j 06:35	24° \approx 24'04	
minimum elong	-2564 Jul 01 j 15:52	17° \approx 19'27	0°30'29	behind sun end		-2559 Dec 05 j 22:33	24° \approx 33'26	
max. Earth dist.	-2564 Jul 01 j 12:40	17° \approx 17'42	6.35409 AU	max. Earth dist.		-2559 Dec 05 j 00:04	24° \approx 20'12	6.10359 AU
morning rise	-2564 Jul 15 j 00:11	20° \approx 14'52		desc. node		-2559 Dec 08 j 00:43	25° \approx 03'03	
	-2564 Aug 31 j 23:50	0° \approx		morning rise		-2559 Dec 18 j 10:04	27° \approx 29'49	
retrograde	-2564 Nov 13 j 02:44	7° \approx 27'22				-2559 Dec 29 j 04:31	0° \approx	
opposition	-2563 Jan 12 j 01:26	2° \approx 31'43	1°10'37	retrograde		-2558 Apr 26 j 22:12	17° \approx 03'28	
min. Earth dist.	-2563 Jan 12 j 11:03	2° \approx 28'34	4.38783 AU	opposition		-2558 Jun 26 j 16:20	12° \approx 05'32	-0°35'04
	-2563 Feb 01 j 07:45	30° \approx		min. Earth dist.		-2558 Jun 26 j 16:51	12° \approx 05'22	4.05363 AU
direct	-2563 Mar 14 j 23:41	27° \approx 28'10		direct		-2558 Aug 25 j 00:39	7° \approx 12'19	
	-2563 Apr 26 j 00:26	0° \approx		evening set		-2558 Dec 27 j 10:56	26° \approx 21'23	
evening set	-2563 Jul 20 j 12:50	15° \approx 19'14						
				conjunction		-2557 Jan 09 j 11:01	29° \approx 27'53	-0°44'40
conjunction	-2563 Aug 02 j 14:58	18° \approx 10'16	1°03'36	minimum elong		-2557 Jan 09 j 10:58	29° \approx 27'51	0°44'44
minimum elong	-2563 Aug 02 j 14:55	18° \approx 10'14	1°03'41	max. Earth dist.		-2557 Jan 09 j 23:19	29° \approx 35'14	6.01691 AU
max. Earth dist.	-2563 Aug 01 j 13:16	17° \approx 56'13	6.40670 AU			-2557 Jan 11 j 16:40	0° \approx	
morning rise	-2563 Aug 15 j 13:46	20° \approx 59'41		morning rise		-2557 Jan 22 j 14:10	2° \approx 36'04	

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Attention, astronomical year style is used: The year -2557 in astronomical counting style is the year 2558 BCE in historical counting style.

retrograde	-2557 Jun 03 j 11:21	22°♌53'32		min. Earth dist.	-2551 Jan 16 j 21:48	6°♌51'51	4.39557 AU
opposition	-2557 Aug 02 j 18:22	17°♌51'37 -1°33'52		direct	-2551 Mar 19 j 11:04	1°♌52'32	
min. Earth dist.	-2557 Aug 01 j 23:34	17°♌57'54 3.99719 AU		evening set	-2551 Jul 24 j 22:35	19°♌42'08	
direct	-2557 Sep 30 j 01:10	12°♌58'04					
	-2556 Jan 22 j 17:37	0°♌		conjunction	-2551 Aug 06 j 23:28	22°♌32'33	1°06'56
evening set	-2556 Feb 01 j 19:10	2°♌22'33		minimum elong	-2551 Aug 06 j 23:26	22°♌32'32	1°06'59
				max. Earth dist.	-2551 Aug 05 j 17:59	22°♌16'27	6.40936 AU
conjunction	-2556 Feb 15 j 02:52	5°♌33'17 -1°13'45		morning rise	-2551 Aug 19 j 21:08	25°♌21'24	
minimum elong	-2556 Feb 15 j 02:50	5°♌33'16 1°13'48			-2551 Sep 10 j 17:32	0°♌	
max. Earth dist.	-2556 Feb 16 j 17:51	5°♌56'35 5.99496 AU		retrograde	-2551 Dec 18 j 01:24	12°♌17'05	
morning rise	-2556 Feb 28 j 13:42	8°♌45'41		opposition	-2550 Feb 16 j 10:59	7°♌24'35	1°49'51
	-2556 Mar 26 j 14:45	15°♌		min. Earth dist.	-2550 Feb 17 j 12:27	7°♌16'24	4.40901 AU
retrograde	-2556 Jul 09 j 16:43	29°♌08'40		direct	-2550 Apr 20 j 02:00	2°♌22'17	
min. Earth dist.	-2556 Sep 06 j 06:16	24°♌13'57 4.01375 AU			-2550 Jul 31 j 20:29	15°♌	
opposition	-2556 Sep 07 j 11:42	24°♌03'57 -1°56'54		evening set	-2550 Aug 25 j 02:52	20°♌10'08	
direct	-2556 Nov 04 j 10:37	19°♌08'07		max. Earth dist.	-2550 Sep 05 j 02:17	22°♌34'56	6.39080 AU
	-2555 Jan 31 j 04:20	0°♌					
evening set	-2555 Mar 09 j 23:55	8°♌28'24		conjunction	-2550 Sep 06 j 20:16	22°♌58'06	1°19'10
				minimum elong	-2550 Sep 06 j 20:15	22°♌58'06	1°19'12
conjunction	-2555 Mar 23 j 14:32	11°♌39'50 -1°14'39		morning rise	-2550 Sep 19 j 10:54	25°♌44'52	
minimum elong	-2555 Mar 23 j 14:34	11°♌39'51 1°14'41			-2550 Oct 09 j 04:42	0°♌	
max. Earth dist.	-2555 Mar 25 j 15:45	12°♌08'42 6.04716 AU		retrograde	-2549 Jan 18 j 12:29	12°♌54'26	
morning rise	-2555 Apr 06 j 07:41	14°♌52'21		opposition	-2549 Mar 20 j 06:59	8°♌02'57	1°52'25
	-2555 Jun 19 j 17:17	0°♌		min. Earth dist.	-2549 Mar 21 j 15:28	7°♌52'37	4.36033 AU
retrograde	-2555 Aug 14 j 06:03	4°♌38'05		direct	-2549 May 21 j 20:37	3°♌02'53	
	-2555 Oct 09 j 12:06	30°♌		evening set	-2549 Sep 25 j 01:41	21°♌01'19	
opposition	-2555 Oct 12 j 18:58	29°♌33'05 -1°35'27		max. Earth dist.	-2549 Oct 05 j 18:25	23°♌25'25	6.31522 AU
min. Earth dist.	-2555 Oct 11 j 12:38	29°♌43'27 4.09608 AU					
direct	-2555 Dec 10 j 06:18	24°♌34'00		conjunction	-2549 Oct 07 j 15:16	23°♌50'41	1°09'10
	-2554 Feb 08 j 09:34	0°♌		minimum elong	-2549 Oct 07 j 15:19	23°♌50'42	1°09'10
evening set	-2554 Apr 15 j 18:14	13°♌32'19		morning rise	-2549 Oct 20 j 03:37	26°♌39'34	
					-2549 Nov 04 j 06:04	0°♌	
conjunction	-2554 Apr 29 j 12:45	16°♌40'48 -0°48'14		retrograde	-2548 Feb 20 j 12:33	14°♌27'13	
minimum elong	-2554 Apr 29 j 12:49	16°♌40'49 0°48'13		opposition	-2548 Apr 21 j 12:30	9°♌34'51	1°22'25
max. Earth dist.	-2554 May 01 j 05:48	17°♌04'14 6.15257 AU		min. Earth dist.	-2548 Apr 22 j 17:58	9°♌25'28	4.26219 AU
morning rise	-2554 May 13 j 07:49	19°♌49'18		direct	-2548 Jun 22 j 07:43	4°♌37'33	
	-2554 Jun 30 j 07:31	0°♌		evening set	-2548 Oct 25 j 15:23	22°♌57'06	
retrograde	-2554 Sep 16 j 20:22	8°♌34'24		max. Earth dist.	-2548 Nov 05 j 21:27	25°♌32'38	6.20326 AU
min. Earth dist.	-2554 Nov 14 j 11:35	3°♌38'18 4.21268 AU					
opposition	-2554 Nov 15 j 06:59	3°♌31'43 -0°41'49		conjunction	-2548 Nov 07 j 05:54	25°♌51'23	0°38'12
	-2554 Dec 14 j 08:36	30°♌		minimum elong	-2548 Nov 07 j 05:56	25°♌51'25	0°38'11
direct	-2553 Jan 13 j 22:59	28°♌29'52		morning rise	-2548 Nov 19 j 20:26	28°♌45'59	
	-2553 Feb 13 j 21:31	0°♌			-2548 Nov 25 j 05:47	0°♌	
	-2553 May 12 j 02:33	15°♌			-2547 Feb 13 j 18:40	15°♌	
evening set	-2553 May 21 j 03:19	16°♌59'07		retrograde	-2547 Mar 26 j 11:04	17°♌28'51	
					-2547 May 06 j 14:42	15°♌	
conjunction	-2553 Jun 03 j 20:09	20°♌01'48 -0°06'30		opposition	-2547 May 26 j 10:52	12°♌34'02	0°24'45
minimum elong	-2553 Jun 03 j 20:10	20°♌01'49 0°06'27		min. Earth dist.	-2547 May 27 j 03:37	12°♌28'39	4.14346 AU
behind sun begin	-2553 Jun 03 j 12:22	19°♌57'30		direct	-2547 Jul 26 j 00:07	7°♌39'27	
behind sun end	-2553 Jun 04 j 03:58	20°♌06'08			-2547 Oct 05 j 14:26	15°♌	
max. Earth dist.	-2553 Jun 04 j 15:54	20°♌12'48 6.27167 AU		desc. node	-2547 Oct 17 j 10:32	17°♌17'37	
morning rise	-2553 Jun 17 j 11:23	23°♌03'31		evening set	-2547 Nov 27 j 15:10	26°♌26'05	
	-2553 Jul 20 j 01:56	0°♌					
asc. node	-2553 Jul 31 j 22:32	2°♌18'34		conjunction	-2547 Dec 10 j 09:47	29°♌27'03	-0°06'24
retrograde	-2553 Oct 18 j 14:23	10°♌50'28		minimum elong	-2547 Dec 10 j 09:46	29°♌27'02	0°06'28
opposition	-2553 Dec 17 j 06:13	5°♌51'35 0°22'12		behind sun begin	-2547 Dec 10 j 02:11	29°♌22'34	
min. Earth dist.	-2553 Dec 17 j 01:25	5°♌53'11 4.32357 AU		behind sun end	-2547 Dec 10 j 17:21	29°♌31'30	
direct	-2552 Feb 16 j 04:42	0°♌48'14		max. Earth dist.	-2547 Dec 09 j 22:18	29°♌20'16	6.08883 AU
evening set	-2552 Jun 22 j 19:11	18°♌52'28			-2547 Dec 12 j 17:29	0°♌	
				morning rise	-2547 Dec 23 j 06:23	2°♌29'13	
conjunction	-2552 Jul 06 j 04:59	21°♌48'21 0°35'53		retrograde	-2546 May 02 j 04:00	22°♌10'18	
minimum elong	-2552 Jul 06 j 04:56	21°♌48'19 0°35'57		opposition	-2546 Jul 01 j 21:14	17°♌11'46	-0°44'37
max. Earth dist.	-2552 Jul 05 j 21:52	21°♌44'27 6.36610 AU		min. Earth dist.	-2546 Jul 01 j 18:15	17°♌12'44	4.04294 AU
morning rise	-2552 Jul 19 j 11:56	24°♌42'43		direct	-2546 Aug 30 j 01:41	12°♌18'36	
	-2552 Aug 13 j 10:17	0°♌			-2546 Dec 26 j 03:14	0°♌	
retrograde	-2552 Nov 17 j 10:06	11°♌51'04		evening set	-2545 Jan 01 j 11:24	1°♌30'09	
opposition	-2551 Jan 16 j 09:12	6°♌55'58 1°17'11					

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Attention, astronomical year style is used: The year -2545 in astronomical counting style is the year 2546 BCE in historical counting style.

conjunction	-2545 Jan 14 j 12:37	4° Z 37'20	-0°50'05	morning rise	-2540 Jul 23 j 21:53	29° II 05'50	
minimum elong	-2545 Jan 14 j 12:34	4° Z 37'18	0°50'08		-2540 Jul 28 j 01:48	0° G	
max. Earth dist.	-2545 Jan 15 j 06:51	4° Z 48'14	6.01137 AU	retrograde	-2540 Nov 21 j 15:07	16° G 11'43	
morning rise	-2545 Jan 27 j 16:41	7° Z 46'10		opposition	-2539 Jan 20 j 16:06	11° G 17'03	1°23'14
retrograde	-2545 Jun 08 j 18:23	28° Z 06'03		min. Earth dist.	-2539 Jan 21 j 06:03	11° G 12'31	4.39845 AU
opposition	-2545 Aug 07 j 23:18	23° Z 03'36	-1°39'36	direct	-2539 Mar 23 j 19:00	6° G 13'44	
min. Earth dist.	-2545 Aug 07 j 02:50	23° Z 10'27	3.99765 AU	evening set	-2539 Jul 29 j 07:39	24° G 03'19	
direct	-2545 Oct 05 j 04:21	18° Z 09'51		max. Earth dist.	-2539 Aug 09 j 23:41	26° G 35'59	6.40782 AU
	-2544 Jan 04 j 23:08	0° \approx					
evening set	-2544 Feb 06 j 23:23	7° \approx 33'43		conjunction	-2539 Aug 11 j 07:22	26° G 53'19	1°09'50
				minimum elong	-2539 Aug 11 j 07:20	26° G 53'18	1°09'53
conjunction	-2544 Feb 20 j 07:54	10° \approx 44'33	-1°15'40	morning rise	-2539 Aug 24 j 03:56	29° G 41'47	
minimum elong	-2544 Feb 20 j 07:53	10° \approx 44'32	1°15'42		-2539 Aug 25 j 13:30	0° Ω	
max. Earth dist.	-2544 Feb 22 j 00:33	11° \approx 08'47	6.00098 AU		-2539 Nov 19 j 16:25	15° Ω	
morning rise	-2544 Mar 04 j 19:49	13° \approx 57'04		retrograde	-2539 Dec 22 j 10:37	16° Ω 38'46	
	-2544 Mar 09 j 06:37	15° \approx			-2538 Jan 24 j 06:41	15° R Ω	
	-2544 May 22 j 12:07	0° X		opposition	-2538 Feb 20 j 20:24	11° Ω 46'34	1°52'04
retrograde	-2544 Jul 14 j 16:21	4° X 15'44		min. Earth dist.	-2538 Feb 21 j 23:46	11° Ω 37'47	4.40335 AU
	-2544 Sep 06 j 10:26	30° R \approx		direct	-2538 Apr 24 j 12:36	6° Ω 44'35	
min. Earth dist.	-2544 Sep 11 j 04:40	29° \approx 21'20	4.02482 AU		-2538 Jul 13 j 16:01	15° Ω	
opposition	-2544 Sep 12 j 11:41	29° \approx 10'47	-1°56'23	evening set	-2538 Aug 29 j 10:52	24° Ω 33'58	
direct	-2544 Nov 09 j 11:02	24° \approx 14'28		max. Earth dist.	-2538 Sep 09 j 07:55	26° Ω 57'54	6.38134 AU
	-2543 Jan 09 j 17:00	0° X					
evening set	-2543 Mar 15 j 03:12	13° X 31'20		conjunction	-2538 Sep 11 j 03:31	27° Ω 22'01	1°19'04
				minimum elong	-2538 Sep 11 j 03:31	27° Ω 22'01	1°19'06
conjunction	-2543 Mar 28 j 18:35	16° X 42'24	-1°12'24	morning rise	-2538 Sep 23 j 17:41	0° H 08'56	
minimum elong	-2543 Mar 28 j 18:37	16° X 42'25	1°12'25		-2538 Sep 23 j 01:26	0° H	
max. Earth dist.	-2543 Mar 30 j 19:18	17° X 10'53	6.06216 AU	retrograde	-2537 Jan 23 j 01:11	17° H 23'06	
morning rise	-2543 Apr 11 j 12:10	19° X 54'24		opposition	-2537 Mar 24 j 20:46	12° H 31'34	1°50'05
	-2543 May 27 j 18:52	0° Y		min. Earth dist.	-2537 Mar 26 j 04:44	12° H 21'23	4.34786 AU
retrograde	-2543 Aug 19 j 00:31	9° Y 31'34		direct	-2537 May 26 j 07:57	7° H 31'52	
min. Earth dist.	-2543 Oct 16 j 08:05	4° Y 36'22	4.11311 AU	evening set	-2537 Sep 29 j 11:02	25° H 33'04	
opposition	-2543 Oct 17 j 12:23	4° Y 26'42	-1°29'26	max. Earth dist.	-2537 Oct 10 j 06:27	27° H 59'07	6.30089 AU
	-2543 Nov 27 j 03:36	30° R X					
direct	-2543 Dec 15 j 04:15	29° X 27'09		conjunction	-2537 Oct 12 j 00:37	28° H 22'58	1°05'56
	-2542 Jan 02 j 06:39	0° Y		minimum elong	-2537 Oct 12 j 00:40	28° H 23'00	1°05'56
evening set	-2542 Apr 20 j 16:57	18° Y 20'48			-2537 Oct 19 j 04:16	0° $\underline{\text{A}}$	
				morning rise	-2537 Oct 24 j 12:52	1° $\underline{\text{A}}$ 12'27	
conjunction	-2542 May 04 j 11:39	21° Y 28'34	-0°43'02	retrograde	-2536 Feb 25 j 07:32	19° $\underline{\text{A}}$ 06'54	
minimum elong	-2542 May 04 j 11:42	21° Y 28'36	0°43'01	opposition	-2536 Apr 26 j 07:51	14° $\underline{\text{A}}$ 14'19	1°15'41
max. Earth dist.	-2542 May 06 j 02:43	21° Y 50'47	6.17027 AU	min. Earth dist.	-2536 Apr 27 j 12:04	14° $\underline{\text{A}}$ 05'20	4.24684 AU
morning rise	-2542 May 18 j 06:30	24° Y 36'12		direct	-2536 Jun 26 j 23:56	9° $\underline{\text{A}}$ 17'30	
	-2542 Jun 11 j 18:48	0° Z		evening set	-2536 Oct 30 j 04:16	27° $\underline{\text{A}}$ 40'12	
retrograde	-2542 Sep 21 j 06:25	13° Z 12'23			-2536 Nov 09 j 06:12	0° B	
opposition	-2542 Nov 19 j 18:10	8° Z 10'11	-0°33'08				
min. Earth dist.	-2542 Nov 19 j 00:01	8° Z 16'19	4.22938 AU	conjunction	-2536 Nov 11 j 19:01	0° B 35'16	0°32'28
direct	-2541 Jan 18 j 13:06	3° Z 08'02		minimum elong	-2536 Nov 11 j 19:03	0° B 35'17	0°32'27
	-2541 Apr 25 j 03:58	15° Z		max. Earth dist.	-2536 Nov 10 j 12:03	0° B 17'19	6.18814 AU
evening set	-2541 May 25 j 20:33	21° Z 33'27		morning rise	-2536 Nov 24 j 10:22	3° B 30'49	
					-2535 Jan 17 j 15:41	15° B	
conjunction	-2541 Jun 08 j 12:36	24° Z 35'14	-0°00'23	retrograde	-2535 Mar 31 j 11:18	22° B 21'23	
minimum elong	-2541 Jun 08 j 12:35	24° Z 35'14	0°00'19	opposition	-2535 May 31 j 11:22	17° B 26'04	0°15'12
behind sun begin	-2541 Jun 08 j 04:19	24° Z 30'39		min. Earth dist.	-2535 Jun 01 j 01:02	17° B 21'39	4.12953 AU
behind sun end	-2541 Jun 08 j 20:52	24° Z 39'48			-2535 Jun 20 j 06:17	15° R B	
max. Earth dist.	-2541 Jun 09 j 03:05	24° Z 43'16	6.28613 AU	direct	-2535 Jul 30 j 20:11	12° B 31'45	
asc. node	-2541 Jun 11 j 19:15	25° Z 18'55		desc. node	-2535 Aug 27 j 04:27	13° B 43'01	
morning rise	-2541 Jun 22 j 03:00	27° Z 35'58			-2535 Sep 08 j 16:54	15° B	
	-2541 Jul 03 j 02:45	0° II			-2535 Nov 26 j 14:06	0° Z	
retrograde	-2541 Oct 22 j 22:12	15° II 16'41		evening set	-2535 Dec 02 j 09:01	1° Z 21'22	
opposition	-2541 Dec 21 j 13:50	10° II 18'22	0°30'39				
min. Earth dist.	-2541 Dec 21 j 12:34	10° II 18'47	4.33475 AU	conjunction	-2535 Dec 15 j 04:32	4° Z 23'11	-0°12'56
direct	-2540 Feb 20 j 17:14	5° II 14'54		minimum elong	-2535 Dec 15 j 04:31	4° Z 23'10	0°13'00
evening set	-2540 Jun 27 j 07:26	23° II 17'07		behind sun begin	-2535 Dec 14 j 23:31	4° Z 20'14	
				behind sun end	-2535 Dec 15 j 09:30	4° Z 26'07	
conjunction	-2540 Jul 10 j 16:14	26° II 12'16	0°41'02	max. Earth dist.	-2535 Dec 14 j 22:15	4° Z 19'28	6.07736 AU
minimum elong	-2540 Jul 10 j 16:11	26° II 12'15	0°41'06	morning rise	-2535 Dec 28 j 01:54	7° Z 26'14	
max. Earth dist.	-2540 Jul 10 j 06:00	26° II 06'40	6.37316 AU	retrograde	-2534 May 07 j 09:52	27° Z 13'28	

Attention, astronomical year style is used: The year -2534 in astronomical counting style is the year 2535 BCE in historical counting style.

opposition	-2534 Jul 07 j 00:34	22°♌14'26	-0°53'46	opposition	-2529 Dec 25 j 22:44	14°♊49'05	0°39'02
min. Earth dist.	-2534 Jul 06 j 19:42	22°♌16'01	4.03505 AU	min. Earth dist.	-2529 Dec 25 j 22:53	14°♊49'02	4.34404 AU
direct	-2534 Sep 04 j 01:39	17°♌21'21		direct	-2528 Feb 25 j 04:33	9°♏45'36	
	-2534 Dec 08 j 23:34	0°♊		evening set	-2528 Jul 01 j 21:02	27°♊46'14	
evening set	-2533 Jan 06 j 10:54	6°♊34'46			-2528 Jul 12 j 02:16	0°♏	
conjunction	-2533 Jan 19 j 12:53	9°♊42'29	-0°55'04	conjunction	-2528 Jul 15 j 04:29	0°♏40'37	0°46'02
minimum elong	-2533 Jan 19 j 12:49	9°♊42'27	0°55'08	minimum elong	-2528 Jul 15 j 04:26	0°♏40'36	0°46'06
max. Earth dist.	-2533 Jan 20 j 09:22	9°♊54'46	6.00749 AU	max. Earth dist.	-2528 Jul 14 j 14:00	0°♏32'42	6.37912 AU
morning rise	-2533 Feb 01 j 18:09	12°♊51'59		morning rise	-2528 Jul 28 j 09:00	3°♏33'27	
	-2533 Apr 28 j 19:24	0°♏		retrograde	-2528 Nov 25 j 23:55	20°♏37'15	
retrograde	-2533 Jun 13 j 20:50	3°♏13'35		opposition	-2527 Jan 25 j 01:03	15°♏43'02	1°28'56
	-2533 Jul 30 j 04:20	30°♏		min. Earth dist.	-2527 Jan 25 j 17:45	15°♏37'35	4.40103 AU
min. Earth dist.	-2533 Aug 12 j 02:26	28°♊18'29	3.99854 AU	direct	-2527 Mar 28 j 07:40	10°♏39'51	
opposition	-2533 Aug 13 j 01:34	28°♊10'43	-1°44'33	evening set	-2527 Aug 02 j 18:01	28°♏29'10	
direct	-2533 Oct 10 j 03:47	23°♊16'42			-2527 Aug 09 j 16:46	0°♏	
	-2533 Dec 15 j 13:05	0°♏		max. Earth dist.	-2527 Aug 14 j 07:49	1°♏00'45	6.40684 AU
evening set	-2532 Feb 12 j 02:02	12°♏40'25					
	-2532 Feb 21 j 21:11	15°♏		conjunction	-2527 Aug 15 j 16:42	1°♏18'45	1°12'25
conjunction	-2532 Feb 25 j 11:37	15°♏51'27	-1°17'00	minimum elong	-2527 Aug 15 j 16:40	1°♏18'43	1°12'28
minimum elong	-2532 Feb 25 j 11:36	15°♏51'27	1°17'03	morning rise	-2527 Aug 28 j 12:06	4°♏06'47	
max. Earth dist.	-2532 Feb 27 j 06:22	16°♏16'54	6.00638 AU		-2527 Oct 22 j 05:42	15°♏	
morning rise	-2532 Mar 10 j 00:21	19°♏04'04		retrograde	-2527 Dec 26 j 18:41	21°♏04'46	
	-2532 Apr 28 j 13:19	0°♏		opposition	-2526 Feb 25 j 07:10	16°♏12'43	1°53'44
retrograde	-2532 Jul 19 j 16:55	9°♏19'01		min. Earth dist.	-2526 Feb 26 j 10:23	16°♏04'00	4.39935 AU
min. Earth dist.	-2532 Sep 16 j 03:46	4°♏24'15	4.03409 AU		-2526 Mar 06 j 20:28	15°♏	
opposition	-2532 Sep 17 j 10:04	4°♏13'56	-1°55'05	direct	-2526 Apr 28 j 22:50	11°♏11'02	
	-2532 Oct 25 j 01:06	30°♏			-2526 Jun 20 j 10:22	15°♏	
direct	-2532 Nov 14 j 11:44	29°♏17'10		evening set	-2526 Sep 02 j 19:48	29°♏01'08	
	-2532 Dec 04 j 23:00	0°♏			-2526 Sep 07 j 06:41	0°♏	
evening set	-2531 Mar 20 j 05:24	18°♏31'38		max. Earth dist.	-2526 Sep 13 j 16:44	1°♏25'17	6.37474 AU
conjunction	-2531 Apr 02 j 21:34	21°♏42'29	-1°09'40	conjunction	-2526 Sep 15 j 11:42	1°♏49'07	1°18'34
minimum elong	-2531 Apr 02 j 21:37	21°♏42'31	1°09'40	minimum elong	-2526 Sep 15 j 11:42	1°♏49'07	1°18'36
max. Earth dist.	-2531 Apr 04 j 22:29	22°♏10'58	6.07448 AU	morning rise	-2526 Sep 28 j 01:15	4°♏36'04	
morning rise	-2531 Apr 16 j 15:37	24°♏54'08		retrograde	-2525 Jan 27 j 14:54	21°♏53'43	
	-2531 May 09 j 04:55	0°♏		opposition	-2525 Mar 29 j 11:24	17°♏02'09	1°47'07
retrograde	-2531 Aug 23 j 17:26	14°♏23'49		min. Earth dist.	-2525 Mar 30 j 19:40	16°♏51'53	4.33901 AU
min. Earth dist.	-2531 Oct 21 j 01:08	9°♏28'43	4.12716 AU	direct	-2525 May 30 j 22:21	12°♏02'52	
opposition	-2531 Oct 22 j 04:55	9°♏19'15	-1°22'54	evening set	-2525 Oct 03 j 20:11	0°♏05'13	
direct	-2531 Dec 19 j 22:42	4°♏19'17			-2525 Oct 03 j 10:54	0°♏	
evening set	-2530 Apr 25 j 15:57	23°♏09'40		max. Earth dist.	-2525 Oct 14 j 15:42	2°♏31'46	6.29053 AU
conjunction	-2530 May 09 j 10:32	26°♏16'48	-0°37'34	conjunction	-2525 Oct 16 j 09:34	2°♏55'29	1°02'21
minimum elong	-2530 May 09 j 10:35	26°♏16'50	0°37'32	minimum elong	-2525 Oct 16 j 09:37	2°♏55'30	1°02'21
max. Earth dist.	-2530 May 10 j 21:09	26°♏36'26	6.18490 AU	morning rise	-2525 Oct 28 j 22:02	5°♏45'28	
morning rise	-2530 May 23 j 05:14	29°♏23'42		retrograde	-2524 Mar 01 j 00:22	23°♏45'21	
	-2530 May 25 j 21:57	0°♏		opposition	-2524 May 01 j 02:35	18°♏52'24	1°08'32
retrograde	-2530 Aug 13 j 16:49	15°♏		min. Earth dist.	-2524 May 02 j 04:23	18°♏44'10	4.23552 AU
	-2530 Sep 25 j 18:17	17°♏52'14		direct	-2524 Jul 01 j 15:00	13°♏55'54	
	-2530 Nov 07 j 16:47	15°♏			-2524 Oct 24 j 10:16	0°♏	
opposition	-2530 Nov 24 j 05:50	12°♏50'30	-0°24'13	evening set	-2524 Nov 03 j 15:55	2°♏20'20	
min. Earth dist.	-2530 Nov 23 j 14:38	12°♏55'38	4.24309 AU	max. Earth dist.	-2524 Nov 15 j 04:10	5°♏00'21	6.17698 AU
direct	-2529 Jan 23 j 05:45	7°♏48'03		conjunction	-2524 Nov 16 j 07:09	5°♏16'02	0°26'39
	-2529 Apr 05 j 13:41	15°♏		minimum elong	-2524 Nov 16 j 07:11	5°♏16'03	0°26'36
asc. node	-2529 Apr 21 j 19:50	18°♏01'22		morning rise	-2524 Nov 28 j 22:56	8°♏12'18	
evening set	-2529 May 30 j 14:34	26°♏10'40			-2524 Dec 29 j 09:01	15°♏	
conjunction	-2529 Jun 13 j 06:04	29°♏11'41	0°05'51	retrograde	-2523 Apr 05 j 10:42	27°♏08'59	
minimum elong	-2529 Jun 13 j 06:03	29°♏11'41	0°05'54	opposition	-2523 Jun 05 j 09:40	22°♏13'13	0°05'43
behind sun begin	-2529 Jun 12 j 22:09	29°♏07'20		min. Earth dist.	-2523 Jun 05 j 21:58	22°♏09'16	4.11922 AU
behind sun end	-2529 Jun 13 j 13:56	29°♏16'02		desc. node	-2523 Jul 08 j 06:14	18°♏29'50	
max. Earth dist.	-2529 Jun 13 j 18:16	29°♏18'26	6.29802 AU	direct	-2523 Aug 04 j 15:30	17°♏19'08	
	-2529 Jun 16 j 21:15	0°♏			-2523 Nov 10 j 01:08	0°♏	
morning rise	-2529 Jun 26 j 19:21	2°♏11'30		evening set	-2523 Dec 07 j 01:03	6°♏10'40	
retrograde	-2529 Oct 27 j 05:28	19°♏46'51		conjunction	-2523 Dec 19 j 21:08	9°♏13'08	-0°19'14

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Attention, astronomical year style is used: The year -2523 in astronomical counting style is the year 2524 BCE in historical counting style.

minimum elong	-2523 Dec 19 j 21:07	9°♌13'07	0°19'18	behind sun end	-2517 Jun 18 j 04:06	3°♊49'12	
max. Earth dist.	-2523 Dec 19 j 16:40	9°♌10'29	6.06875 AU	max. Earth dist.	-2517 Jun 18 j 06:16	3°♊50'24	6.30888 AU
morning rise	-2522 Jan 01 j 19:36	12°♌16'59		morning rise	-2517 Jul 01 j 10:59	6°♊45'07	
	-2522 Apr 04 j 21:09	0°♌		retrograde	-2517 Oct 31 j 13:47	24°♊15'30	
retrograde	-2522 May 12 j 09:24	2°♌09'08		opposition	-2517 Dec 30 j 07:35	19°♊18'13	0°47'08
	-2522 Jun 19 j 00:01	30°♌♌		min. Earth dist.	-2517 Dec 30 j 10:15	19°♊17'20	4.35313 AU
opposition	-2522 Jul 12 j 00:27	27°♌09'31	-1°02'16	direct	-2516 Feb 29 j 18:03	14°♊14'42	
min. Earth dist.	-2522 Jul 11 j 16:28	27°♌12'09	4.02909 AU		-2516 Jun 26 j 01:41	0°♌	
direct	-2522 Sep 08 j 21:09	22°♌16'24		evening set	-2516 Jul 06 j 09:49	2°♌13'32	
	-2522 Nov 20 j 00:18	0°♌					
evening set	-2521 Jan 11 j 07:30	11°♌31'18		conjunction	-2516 Jul 19 j 16:12	5°♌07'10	0°50'44
				minimum elong	-2516 Jul 19 j 16:09	5°♌07'09	0°50'48
conjunction	-2521 Jan 24 j 10:30	14°♌39'34	-0°59'30	max. Earth dist.	-2516 Jul 19 j 00:38	4°♌58'39	6.38569 AU
minimum elong	-2521 Jan 24 j 10:27	14°♌39'32	0°59'34	morning rise	-2516 Aug 01 j 19:14	7°♌59'10	
max. Earth dist.	-2521 Jan 25 j 10:21	14°♌53'51	6.00462 AU	retrograde	-2516 Nov 30 j 05:30	25°♌00'38	
morning rise	-2521 Feb 06 j 16:39	17°♌49'35		opposition	-2515 Jan 29 j 09:20	20°♌06'46	1°34'06
	-2521 Apr 03 j 06:34	0°♌		min. Earth dist.	-2515 Jan 30 j 02:44	20°♌01'08	4.40469 AU
retrograde	-2521 Jun 18 j 22:08	8°♌12'36		direct	-2515 Apr 01 j 17:29	15°♌03'45	
min. Earth dist.	-2521 Aug 17 j 01:11	3°♌17'12	3.99915 AU		-2515 Jul 24 j 18:15	0°♌	
opposition	-2521 Aug 18 j 00:33	3°♌09'20	-1°48'34	evening set	-2515 Aug 07 j 03:08	2°♌52'12	
	-2521 Sep 12 j 14:23	30°♌♌		max. Earth dist.	-2515 Aug 18 j 13:02	5°♌21'50	6.40690 AU
direct	-2521 Oct 15 j 02:40	28°♌15'01					
	-2521 Nov 16 j 10:52	0°♌		conjunction	-2515 Aug 20 j 00:31	5°♌41'17	1°14'34
	-2520 Feb 05 j 18:48	15°♌		minimum elong	-2515 Aug 20 j 00:30	5°♌41'15	1°14'38
evening set	-2520 Feb 17 j 01:57	17°♌38'55		morning rise	-2515 Sep 01 j 19:00	8°♌28'54	
					-2515 Oct 02 j 19:10	15°♌	
conjunction	-2520 Mar 01 j 12:35	20°♌50'14	-1°17'44	retrograde	-2515 Dec 31 j 04:12	25°♌27'44	
minimum elong	-2520 Mar 01 j 12:35	20°♌50'14	1°17'47	opposition	-2514 Mar 01 j 17:22	20°♌35'50	1°54'44
max. Earth dist.	-2520 Mar 03 j 09:02	21°♌16'37	6.01036 AU	min. Earth dist.	-2514 Mar 02 j 22:32	20°♌26'31	4.39559 AU
morning rise	-2520 Mar 15 j 02:16	24°♌03'03		direct	-2514 May 03 j 10:47	15°♌34'25	
	-2520 Apr 10 j 00:15	0°♌			-2514 Aug 22 j 09:03	0°♌	
retrograde	-2520 Jul 24 j 13:43	14°♌14'41		evening set	-2514 Sep 07 j 02:57	3°♌25'01	
min. Earth dist.	-2520 Sep 20 j 22:39	9°♌20'02	4.04124 AU	max. Earth dist.	-2514 Sep 17 j 22:49	5°♌48'53	6.36713 AU
opposition	-2520 Sep 22 j 05:17	9°♌09'35	-1°53'01				
direct	-2520 Nov 19 j 06:57	4°♌12'26		conjunction	-2514 Sep 19 j 18:18	6°♌13'03	1°17'37
evening set	-2519 Mar 25 j 05:47	23°♌25'39		minimum elong	-2514 Sep 19 j 18:19	6°♌13'04	1°17'38
				morning rise	-2514 Oct 02 j 07:21	9°♌00'07	
conjunction	-2519 Apr 07 j 22:32	26°♌36'22	-1°06'29	retrograde	-2513 Feb 01 j 02:11	26°♌21'56	
minimum elong	-2519 Apr 07 j 22:35	26°♌36'24	1°06'29	opposition	-2513 Apr 03 j 01:01	21°♌30'15	1°43'33
max. Earth dist.	-2519 Apr 09 j 20:52	27°♌03'17	6.08419 AU	min. Earth dist.	-2513 Apr 04 j 08:11	21°♌20'21	4.32792 AU
morning rise	-2519 Apr 21 j 17:12	29°♌47'49		direct	-2513 Jun 04 j 09:03	16°♌31'20	
	-2519 Apr 22 j 14:23	0°♌			-2513 Sep 17 j 07:59	0°♌	
retrograde	-2519 Aug 28 j 08:51	19°♌11'11		evening set	-2513 Oct 08 j 04:34	4°♌35'54	
opposition	-2519 Oct 26 j 19:46	14°♌06'52	-1°15'57	max. Earth dist.	-2513 Oct 19 j 01:44	7°♌03'51	6.27681 AU
min. Earth dist.	-2519 Oct 25 j 17:39	14°♌15'47	4.13835 AU				
direct	-2519 Dec 24 j 16:57	9°♌06'32		conjunction	-2513 Oct 20 j 17:56	7°♌26'43	0°58'24
evening set	-2518 Apr 30 j 13:28	27°♌54'43		minimum elong	-2513 Oct 20 j 17:58	7°♌26'44	0°58'24
	-2518 May 09 j 19:43	0°♌		morning rise	-2513 Nov 02 j 06:31	10°♌17'20	
				retrograde	-2512 Mar 05 j 20:10	28°♌24'11	
conjunction	-2518 May 14 j 08:15	1°♌01'23	-0°31'55	opposition	-2512 May 05 j 21:25	23°♌30'58	1°00'56
minimum elong	-2518 May 14 j 08:18	1°♌01'24	0°31'52	min. Earth dist.	-2512 May 06 j 22:56	23°♌22'50	4.21979 AU
max. Earth dist.	-2518 May 15 j 17:44	1°♌20'19	6.19703 AU	direct	-2512 Jul 06 j 07:09	18°♌34'50	
morning rise	-2518 May 28 j 02:30	4°♌07'36			-2512 Oct 07 j 12:07	0°♌	
	-2518 Jul 19 j 10:46	15°♌		evening set	-2512 Nov 08 j 04:13	7°♌02'48	
retrograde	-2518 Sep 30 j 05:16	22°♌29'27					
opposition	-2518 Nov 28 j 16:56	17°♌28'16	-0°15'16	conjunction	-2512 Nov 20 j 19:55	9°♌59'25	0°20'35
min. Earth dist.	-2518 Nov 28 j 03:06	17°♌32'55	4.25503 AU	minimum elong	-2512 Nov 20 j 19:57	9°♌59'26	0°20'32
	-2518 Dec 17 j 22:22	15°♌♌		max. Earth dist.	-2512 Nov 19 j 18:19	9°♌44'30	6.16062 AU
direct	-2517 Jan 27 j 20:02	12°♌25'40		morning rise	-2512 Dec 03 j 12:35	12°♌56'45	
asc. node	-2517 Mar 02 j 03:00	14°♌07'31			-2512 Dec 12 j 10:39	15°♌	
	-2517 Mar 10 j 05:36	15°♌			-2511 Mar 04 j 20:34	0°♌	
	-2517 May 31 j 20:10	0°♌		retrograde	-2511 Apr 10 j 10:50	2°♌01'48	
evening set	-2517 Jun 04 j 08:03	0°♌45'57			-2511 May 17 j 06:55	30°♌♌	
				desc. node	-2511 May 18 j 15:25	29°♌51'29	
conjunction	-2517 Jun 17 j 22:32	3°♌46'08	0°11'53	opposition	-2511 Jun 10 j 09:41	27°♌05'32	-0°03'59
minimum elong	-2517 Jun 17 j 22:31	3°♌46'08	0°11'57	min. Earth dist.	-2511 Jun 10 j 18:37	27°♌02'38	4.10355 AU
behind sun begin	-2517 Jun 17 j 16:56	3°♌43'04		direct	-2511 Aug 09 j 09:23	22°♌11'40	

Attention, astronomical year style is used: The year -2511 in astronomical counting style is the year 2512 BCE in historical counting style.

	-2511 Oct 21 j 22:13	0°♌		morning rise	-2505 Jul 06 j 00:50	11°♏15'24	
evening set	-2511 Dec 11 j 19:36	11°♌07'17		retrograde	-2505 Nov 04 j 18:45	28°♏38'36	
				opposition	-2504 Jan 03 j 14:27	23°♏41'50	0°54'42
conjunction	-2511 Dec 24 j 16:37	14°♌10'43	-0°25'34	min. Earth dist.	-2504 Jan 03 j 19:06	23°♏40'18	4.36840 AU
minimum elong	-2511 Dec 24 j 16:35	14°♌10'42	0°25'38	direct	-2504 Mar 05 j 05:14	18°♏38'18	
max. Earth dist.	-2511 Dec 24 j 16:26	14°♌10'37	6.05518 AU		-2504 Jun 09 j 11:01	0°♏	
morning rise	-2510 Jan 06 j 15:59	17°♌15'36		evening set	-2504 Jul 10 j 19:15	6°♏33'09	
	-2510 Mar 06 j 20:01	0°♏		max. Earth dist.	-2504 Jul 23 j 03:53	9°♏14'42	6.39668 AU
retrograde	-2510 May 17 j 15:18	7°♏14'42					
opposition	-2510 Jul 17 j 03:57	2°♏14'32	-1°10'38	conjunction	-2504 Jul 24 j 00:09	9°♏25'45	0°54'59
min. Earth dist.	-2510 Jul 16 j 18:22	2°♏17'42	4.01902 AU	minimum elong	-2504 Jul 24 j 00:06	9°♏25'44	0°55'02
	-2510 Aug 03 j 19:34	30°♌♌		morning rise	-2504 Aug 06 j 01:59	12°♏16'47	
direct	-2510 Sep 13 j 21:48	27°♌21'22		retrograde	-2504 Dec 04 j 09:25	29°♏14'57	
	-2510 Oct 24 j 06:16	0°♏		opposition	-2503 Feb 02 j 14:33	24°♏21'23	1°38'30
evening set	-2509 Jan 16 j 08:43	16°♏39'20		min. Earth dist.	-2503 Feb 03 j 10:45	24°♏14'51	4.41081 AU
				direct	-2503 Apr 06 j 02:00	19°♏18'25	
conjunction	-2509 Jan 29 j 12:47	19°♏48'19	-1°03'40		-2503 Jul 08 j 07:45	0°♏	
minimum elong	-2509 Jan 29 j 12:44	19°♏48'18	1°03'43	evening set	-2503 Aug 11 j 07:56	7°♏05'16	
max. Earth dist.	-2509 Jan 30 j 16:13	20°♏04'45	5.99889 AU	max. Earth dist.	-2503 Aug 22 j 15:35	9°♏33'41	6.40746 AU
morning rise	-2509 Feb 11 j 20:07	22°♏59'05					
	-2509 Mar 14 j 07:43	0°♏		conjunction	-2503 Aug 24 j 04:25	9°♏53'53	1°16'13
retrograde	-2509 Jun 24 j 03:29	13°♏24'01		minimum elong	-2503 Aug 24 j 04:24	9°♏53'52	1°16'16
min. Earth dist.	-2509 Aug 22 j 02:06	8°♏29'01	3.99886 AU	morning rise	-2503 Sep 05 j 21:43	12°♏41'03	
opposition	-2509 Aug 23 j 03:39	8°♏20'24	-1°51'57		-2503 Sep 16 j 14:51	15°♏	
direct	-2509 Oct 20 j 03:31	3°♏25'49		retrograde	-2502 Jan 04 j 08:01	29°♏40'53	
	-2508 Jan 18 j 20:05	15°♏		opposition	-2502 Mar 05 j 23:41	24°♏49'07	1°55'04
evening set	-2508 Feb 22 j 07:09	22°♏50'10		min. Earth dist.	-2502 Mar 07 j 05:32	24°♏39'35	4.39060 AU
				direct	-2502 May 07 j 16:16	19°♏47'56	
conjunction	-2508 Mar 06 j 18:43	26°♏01'42	-1°17'55		-2502 Aug 05 j 21:03	0°♏	
minimum elong	-2508 Mar 06 j 18:43	26°♏01'42	1°17'57	evening set	-2502 Sep 11 j 06:40	7°♏39'42	
max. Earth dist.	-2508 Mar 08 j 15:49	26°♏28'26	6.01542 AU	max. Earth dist.	-2502 Sep 21 j 23:59	10°♏02'36	6.35678 AU
morning rise	-2508 Mar 20 j 09:24	29°♏14'41					
	-2508 Mar 23 j 14:43	0°♏		conjunction	-2502 Sep 23 j 21:22	10°♏27'54	1°16'17
retrograde	-2508 Jul 29 j 13:36	19°♏22'02		minimum elong	-2502 Sep 23 j 21:23	10°♏27'55	1°16'17
min. Earth dist.	-2508 Sep 25 j 21:45	14°♏27'25	4.05129 AU	morning rise	-2502 Oct 06 j 10:11	13°♏15'16	
opposition	-2508 Sep 27 j 04:42	14°♏16'50	-1°50'01		-2501 Jan 15 j 03:52	0°♏	
direct	-2508 Nov 24 j 08:08	9°♏19'15		retrograde	-2501 Feb 05 j 13:58	0°♏42'29	
evening set	-2507 Mar 30 j 10:00	28°♏29'42			-2501 Feb 26 j 23:55	30°♌♏	
	-2507 Apr 05 j 22:32	0°♏		opposition	-2501 Apr 07 j 12:05	25°♏50'43	1°39'32
				min. Earth dist.	-2501 Apr 08 j 20:37	25°♏40'22	4.31258 AU
conjunction	-2507 Apr 13 j 03:30	1°♏40'04	-1°02'45	direct	-2501 Jun 08 j 18:37	20°♏52'05	
minimum elong	-2507 Apr 13 j 03:33	1°♏40'06	1°02'45		-2501 Aug 31 j 03:04	0°♏	
max. Earth dist.	-2507 Apr 15 j 03:07	2°♏07'38	6.09881 AU	evening set	-2501 Oct 12 j 10:30	9°♏00'29	
morning rise	-2507 Apr 26 j 22:17	4°♏50'56		max. Earth dist.	-2501 Oct 23 j 08:18	11°♏29'25	6.25777 AU
retrograde	-2507 Sep 02 j 02:47	24°♏05'33					
opposition	-2507 Oct 31 j 13:14	19°♏01'34	-1°08'21	conjunction	-2501 Oct 25 j 00:08	11°♏52'09	0°54'13
min. Earth dist.	-2507 Oct 30 j 12:03	19°♏10'08	4.15605 AU	minimum elong	-2501 Oct 25 j 00:10	11°♏52'11	0°54'12
direct	-2507 Dec 29 j 14:27	14°♏00'53		morning rise	-2501 Nov 06 j 13:07	14°♏43'45	
	-2506 Apr 23 j 04:59	0°♏			-2500 Jan 25 j 15:31	0°♏	
evening set	-2506 May 05 j 12:56	2°♏44'05		retrograde	-2500 Mar 10 j 13:37	2°♏59'41	
					-2500 Apr 25 j 08:56	30°♌♏	
conjunction	-2506 May 19 j 07:15	5°♏49'45	-0°26'01	opposition	-2500 May 10 j 15:10	28°♏06'10	0°53'07
minimum elong	-2506 May 19 j 07:17	5°♏49'46	0°25'59	min. Earth dist.	-2500 May 11 j 14:29	27°♏58'42	4.19827 AU
max. Earth dist.	-2506 May 20 j 13:24	6°♏06'44	6.21647 AU	direct	-2500 Jul 10 j 18:45	23°♏10'23	
morning rise	-2506 Jun 02 j 01:04	8°♏54'54			-2500 Sep 18 j 05:47	0°♏	
	-2506 Jun 30 j 02:34	15°♏		evening set	-2500 Nov 12 j 16:32	11°♏44'13	
retrograde	-2506 Oct 04 j 14:47	27°♏07'16		max. Earth dist.	-2500 Nov 24 j 10:21	14°♏28'50	6.13861 AU
opposition	-2506 Dec 03 j 04:10	22°♏06'31	-0°06'16				
min. Earth dist.	-2506 Dec 02 j 16:08	22°♏10'34	4.27448 AU	conjunction	-2500 Nov 25 j 08:55	14°♏42'04	0°14'28
asc. node	-2505 Jan 10 j 15:49	17°♏49'33		minimum elong	-2500 Nov 25 j 08:56	14°♏42'04	0°14'25
direct	-2505 Feb 01 j 12:35	17°♏03'39		behind sun begin	-2500 Nov 25 j 05:06	14°♏39'50	
	-2505 May 15 j 03:34	0°♏		behind sun end	-2500 Nov 25 j 12:47	14°♏44'19	
evening set	-2505 Jun 09 j 00:14	5°♏18'44			-2500 Nov 26 j 15:32	15°♏	
				morning rise	-2500 Dec 08 j 02:27	17°♏40'44	
conjunction	-2505 Jun 22 j 13:48	8°♏17'45	0°17'47		-2499 Feb 04 j 04:44	0°♏	
minimum elong	-2505 Jun 22 j 13:46	8°♏17'44	0°17'51	desc. node	-2499 Mar 29 j 15:55	6°♏29'28	
max. Earth dist.	-2505 Jun 22 j 19:27	8°♏20'51	6.32695 AU	retrograde	-2499 Apr 15 j 14:47	6°♏56'25	

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Attention, astronomical year style is used: The year -2499 in astronomical counting style is the year 2500 BCE in historical counting style.

opposition	-2499 Jun 15 j 10:42	1°♌59'41	-0°13'39			-2493 Apr 26 j 06:21	0°♐	
min. Earth dist.	-2499 Jun 15 j 17:55	1°♌57'20	4.08278 AU	evening set		-2493 Jun 13 j 17:01	9°♐53'49	
	-2499 Jul 01 j 06:35	30°♍						
direct	-2499 Aug 14 j 05:58	27°♍06'03		conjunction		-2493 Jun 27 j 05:27	12°♐51'47	0°23'40
	-2499 Sep 26 j 04:34	0°♌		minimum elong		-2493 Jun 27 j 05:25	12°♐51'46	0°23'45
evening set	-2499 Dec 16 j 16:21	16°♌07'49		max. Earth dist.		-2493 Jun 27 j 06:34	12°♐52'24	6.34148 AU
				morning rise		-2493 Jul 10 j 15:19	15°♐48'20	
conjunction	-2499 Dec 29 j 14:26	19°♌12'29	-0°31'44			-2493 Sep 24 j 21:07	0°♑	
minimum elong	-2499 Dec 29 j 14:23	19°♌12'28	0°31'48	retrograde		-2493 Nov 09 j 01:38	3°♑06'00	
max. Earth dist.	-2499 Dec 29 j 18:27	19°♌14'53	6.03768 AU			-2493 Dec 24 j 14:51	30°♑	
morning rise	-2498 Jan 11 j 15:03	22°♌18'40		opposition		-2492 Jan 07 j 22:54	28°♐09'45	1°02'11
	-2498 Feb 14 j 07:29	0°♋		min. Earth dist.		-2492 Jan 08 j 05:51	28°♐07'28	4.37913 AU
retrograde	-2498 May 22 j 22:57	12°♋25'50		direct		-2492 Mar 09 j 17:05	23°♐06'10	
opposition	-2498 Jul 22 j 09:36	7°♋25'11	-1°18'31			-2492 May 20 j 23:17	0°♑	
min. Earth dist.	-2498 Jul 21 j 20:27	7°♋29'32	4.00691 AU	evening set		-2492 Jul 15 j 06:42	10°♑58'50	
direct	-2498 Sep 18 j 22:28	2°♋32'01		max. Earth dist.		-2492 Jul 27 j 11:55	13°♑38'24	6.40279 AU
evening set	-2497 Jan 21 j 13:09	21°♋53'48						
				conjunction		-2492 Jul 28 j 10:25	13°♑50'41	0°59'05
conjunction	-2497 Feb 03 j 18:16	25°♋03'32	-1°07'21	minimum elong		-2492 Jul 28 j 10:22	13°♑50'39	0°59'08
minimum elong	-2497 Feb 03 j 18:13	25°♋03'31	1°07'24	morning rise		-2492 Aug 10 j 10:48	16°♑40'54	
max. Earth dist.	-2497 Feb 05 j 00:59	25°♋21'57	5.99305 AU			-2492 Oct 20 j 06:32	0°♒	
morning rise	-2497 Feb 17 j 02:51	28°♋15'04		retrograde		-2492 Dec 08 j 16:14	3°♒37'30	
	-2497 Feb 24 j 12:24	0°♑				-2491 Jan 28 j 01:37	30°♑	
	-2497 May 11 j 02:06	15°♑		opposition		-2491 Feb 06 j 22:50	28°♑44'20	1°42'36
retrograde	-2497 Jun 29 j 10:05	18°♑41'29		min. Earth dist.		-2491 Feb 07 j 20:51	28°♑37'14	4.41214 AU
	-2497 Aug 18 j 01:51	15°♒		direct		-2491 Apr 10 j 11:45	23°♑41'34	
min. Earth dist.	-2497 Aug 27 j 05:23	13°♑46'47	3.99999 AU			-2491 Jun 18 j 12:59	0°♒	
opposition	-2497 Aug 28 j 09:05	13°♑37'24	-1°54'24	evening set		-2491 Aug 15 j 16:19	11°♒28'20	
direct	-2497 Oct 25 j 08:15	8°♑42'26		max. Earth dist.		-2491 Aug 26 j 19:19	13°♒54'30	6.40367 AU
	-2497 Dec 28 j 08:22	15°♑						
evening set	-2496 Feb 27 j 14:45	28°♑06'26		conjunction		-2491 Aug 28 j 11:41	14°♒16'40	1°17'33
	-2496 Mar 06 j 15:22	0°♒		minimum elong		-2491 Aug 28 j 11:40	14°♒16'39	1°17'35
						-2491 Aug 31 j 18:34	15°♒	
conjunction	-2496 Mar 12 j 03:29	1°♒18'05	-1°17'27	morning rise		-2491 Sep 10 j 04:17	17°♒03'40	
minimum elong	-2496 Mar 12 j 03:30	1°♒18'05	1°17'28			-2491 Nov 16 j 19:14	0°♓	
max. Earth dist.	-2496 Mar 14 j 04:15	1°♒46'55	6.02322 AU	retrograde		-2490 Jan 08 j 19:17	4°♓06'00	
morning rise	-2496 Mar 25 j 18:51	4°♒31'01				-2490 Mar 04 j 11:20	30°♓	
retrograde	-2496 Aug 03 j 15:28	24°♒32'19		opposition		-2490 Mar 10 j 11:05	29°♒14'21	1°54'51
min. Earth dist.	-2496 Sep 30 j 22:19	19°♒37'36	4.06459 AU	min. Earth dist.		-2490 Mar 11 j 18:33	29°♒04'18	4.38205 AU
opposition	-2496 Oct 02 j 05:06	19°♒27'06	-1°46'05	direct		-2490 May 12 j 03:24	24°♒13'24	
direct	-2496 Nov 29 j 10:49	14°♒29'03				-2490 Jul 16 j 13:06	0°♓	
	-2495 Mar 19 j 18:45	0°♑		evening set		-2490 Sep 15 j 14:40	12°♓07'11	
evening set	-2495 Apr 04 j 15:29	3°♑35'34		max. Earth dist.		-2490 Sep 26 j 08:33	14°♓30'49	6.34414 AU
conjunction	-2495 Apr 18 j 09:17	6°♑45'21	-0°58'30	conjunction		-2490 Sep 28 j 05:09	14°♓55'45	1°14'27
minimum elong	-2495 Apr 18 j 09:20	6°♑45'23	0°58'29	minimum elong		-2490 Sep 28 j 05:10	14°♓55'45	1°14'28
max. Earth dist.	-2495 Apr 20 j 06:57	7°♑11'39	6.11598 AU	morning rise		-2490 Oct 10 j 17:35	17°♓43'30	
morning rise	-2495 May 02 j 04:24	9°♑55'31				-2490 Dec 11 j 09:03	0°♈	
retrograde	-2495 Sep 06 j 18:51	29°♑00'26		retrograde		-2489 Feb 10 j 05:09	5°♈16'49	
min. Earth dist.	-2495 Nov 04 j 06:15	24°♑05'02	4.17501 AU	opposition		-2489 Apr 12 j 04:32	0°♈24'55	1°34'43
opposition	-2495 Nov 05 j 06:34	23°♑56'46	-1°00'12	min. Earth dist.		-2489 Apr 13 j 11:55	0°♈14'57	4.29671 AU
direct	-2494 Jan 03 j 11:55	18°♑55'40				-2489 Apr 15 j 11:00	30°♒	
	-2494 Apr 05 j 06:05	0°♉		direct		-2489 Jun 13 j 06:59	25°♓26'42	
evening set	-2494 May 10 j 12:19	7°♉33'51				-2489 Aug 08 j 23:57	0°♈	
				evening set		-2489 Oct 16 j 21:43	13°♈38'49	
conjunction	-2494 May 24 j 06:19	10°♉38'33	-0°19'53	max. Earth dist.		-2489 Oct 27 j 20:54	16°♈09'11	6.24008 AU
minimum elong	-2494 May 24 j 06:21	10°♉38'34	0°19'51					
max. Earth dist.	-2494 May 25 j 09:37	10°♉53'52	6.23569 AU	conjunction		-2489 Oct 29 j 11:25	16°♈31'16	0°49'29
morning rise	-2494 Jun 06 j 23:21	13°♉42'33		minimum elong		-2489 Oct 29 j 11:28	16°♈31'18	0°49'27
	-2494 Jun 12 j 19:14	15°♉		morning rise		-2489 Nov 11 j 00:55	19°♈23'49	
	-2494 Sep 05 j 14:59	0°♐				-2489 Dec 31 j 04:15	0°♐	
retrograde	-2494 Oct 09 j 02:36	1°♐46'06		retrograde		-2488 Mar 15 j 14:15	7°♐48'18	
	-2494 Nov 11 j 08:08	30°♒		opposition		-2488 May 15 j 14:09	2°♐54'24	0°44'30
asc. node	-2494 Nov 20 j 01:55	29°♒02'01		min. Earth dist.		-2488 May 16 j 12:10	2°♐47'21	4.17997 AU
opposition	-2494 Dec 07 j 15:55	26°♒45'58	0°02'51			-2488 Jun 08 j 21:33	30°♒	
min. Earth dist.	-2494 Dec 07 j 06:38	26°♒49'04	4.29209 AU	direct		-2488 Jul 15 j 13:56	27°♈58'58	
direct	-2493 Feb 06 j 05:44	21°♒42'56				-2488 Aug 20 j 18:57	0°♐	

Attention, astronomical year style is used: The year -2488 in astronomical counting style is the year 2489 BCE in historical counting style.

	-2488 Nov 10 j 09:32	15°♄		conjunction	-2482 May 29 j 01:19	15°♄16'59	-0°13'51
evening set	-2488 Nov 17 j 09:08	16°♄37'13		minimum elong	-2482 May 29 j 01:20	15°♄16'59	0°13'48
max. Earth dist.	-2488 Nov 29 j 07:42	19°♄25'10	6.12166 AU	behind sun begin	-2482 May 28 j 21:11	15°♄14'41	
				behind sun end	-2482 May 29 j 05:28	15°♄19'18	
conjunction	-2488 Nov 30 j 02:19	19°♄36'07	0°07'59	max. Earth dist.	-2482 May 30 j 01:05	15°♄30'15	6.25210 AU
minimum elong	-2488 Nov 30 j 02:19	19°♄36'07	0°07'57	morning rise	-2482 Jun 11 j 17:38	18°♄19'59	
behind sun begin	-2488 Nov 29 j 19:07	19°♄31'54			-2482 Aug 08 j 10:11	0°♄	
behind sun end	-2488 Nov 30 j 09:32	19°♄40'20		asc. node	-2482 Sep 30 j 19:28	6°♄00'30	
morning rise	-2488 Dec 12 j 20:43	22°♄35'54		retrograde	-2482 Oct 13 j 09:42	6°♄16'07	
	-2487 Jan 14 j 18:00	0°♄		opposition	-2482 Dec 12 j 00:28	1°♄16'33	0°11'40
desc. node	-2487 Feb 06 j 01:07	4°♄26'19		min. Earth dist.	-2482 Dec 11 j 16:59	1°♄19'03	4.30581 AU
retrograde	-2487 Apr 20 j 19:28	11°♄59'58			-2482 Dec 21 j 16:13	30°♄	
opposition	-2487 Jun 20 j 15:01	7°♄02'42	-0°23'34	direct	-2481 Feb 10 j 17:27	26°♄13'21	
min. Earth dist.	-2487 Jun 20 j 18:42	7°♄01'31	4.06903 AU		-2481 Apr 02 j 23:52	0°♄	
direct	-2487 Aug 19 j 04:47	2°♄09'19		evening set	-2481 Jun 18 j 07:04	14°♄21'35	
evening set	-2487 Dec 21 j 15:37	21°♄14'24					
				conjunction	-2481 Jul 01 j 18:25	17°♄18'42	0°29'17
conjunction	-2486 Jan 03 j 14:29	24°♄19'51	-0°37'48	minimum elong	-2481 Jul 01 j 18:22	17°♄18'41	0°29'20
minimum elong	-2486 Jan 03 j 14:27	24°♄19'49	0°37'52	max. Earth dist.	-2481 Jul 01 j 15:25	17°♄17'04	6.35156 AU
max. Earth dist.	-2486 Jan 03 j 22:22	24°♄24'33	6.02836 AU	morning rise	-2481 Jul 15 j 03:04	20°♄14'22	
morning rise	-2486 Jan 16 j 16:14	27°♄26'55			-2481 Sep 01 j 03:05	0°♄	
	-2486 Jan 27 j 12:25	0°♄		retrograde	-2481 Nov 13 j 08:51	7°♄28'17	
retrograde	-2486 May 28 j 06:03	17°♄38'36		opposition	-2480 Jan 12 j 06:01	2°♄32'36	1°09'08
opposition	-2486 Jul 27 j 15:29	12°♄37'20	-1°25'50	min. Earth dist.	-2480 Jan 12 j 16:00	2°♄29'20	4.38504 AU
min. Earth dist.	-2486 Jul 26 j 23:24	12°♄42'41	4.00324 AU		-2480 Feb 01 j 14:52	30°♄	
direct	-2486 Sep 24 j 02:05	7°♄43'59		direct	-2480 Mar 14 j 03:41	27°♄29'06	
evening set	-2485 Jan 26 j 17:09	27°♄06'23			-2480 Apr 25 j 00:06	0°♄	
	-2485 Feb 07 j 19:54	0°♄		evening set	-2480 Jul 19 j 16:39	15°♄21'05	
conjunction	-2485 Feb 08 j 23:27	0°♄16'29	-1°10'31	conjunction	-2480 Aug 01 j 19:11	18°♄12'24	1°02'46
minimum elong	-2485 Feb 08 j 23:24	0°♄16'27	1°10'34	minimum elong	-2480 Aug 01 j 19:08	18°♄12'23	1°02'50
max. Earth dist.	-2485 Feb 10 j 11:12	0°♄37'52	5.99528 AU	max. Earth dist.	-2480 Jul 31 j 16:56	17°♄58'04	6.40392 AU
morning rise	-2485 Feb 22 j 08:52	3°♄28'16		morning rise	-2480 Aug 14 j 18:28	21°♄02'08	
	-2485 Apr 15 j 15:07	15°♄			-2480 Sep 27 j 16:26	0°♄	
retrograde	-2485 Jul 04 j 14:35	23°♄52'30		retrograde	-2480 Dec 12 j 23:46	7°♄58'58	
min. Earth dist.	-2485 Sep 01 j 07:15	18°♄57'44	4.00806 AU	opposition	-2479 Feb 11 j 07:20	3°♄06'08	1°46'06
opposition	-2485 Sep 02 j 11:41	18°♄48'06	-1°55'53	min. Earth dist.	-2479 Feb 12 j 06:48	2°♄58'34	4.40884 AU
	-2485 Oct 04 j 18:04	15°♄			-2479 Mar 09 j 07:35	30°♄	
direct	-2485 Oct 30 j 10:52	13°♄52'45		direct	-2479 Apr 14 j 20:29	28°♄03'35	
	-2485 Nov 25 j 04:33	15°♄			-2479 May 21 j 15:12	0°♄	
	-2484 Feb 18 j 20:46	0°♄			-2479 Aug 16 j 01:41	15°♄	
evening set	-2484 Mar 03 j 19:29	3°♄14'05		evening set	-2479 Aug 20 j 00:38	15°♄51'39	
				max. Earth dist.	-2479 Aug 31 j 02:56	18°♄17'44	6.39621 AU
conjunction	-2484 Mar 17 j 08:55	6°♄25'29	-1°16'24	conjunction	-2479 Sep 01 j 19:13	18°♄39'55	1°18'25
minimum elong	-2484 Mar 17 j 08:56	6°♄25'30	1°16'25	minimum elong	-2479 Sep 01 j 19:12	18°♄39'55	1°18'27
max. Earth dist.	-2484 Mar 19 j 09:22	6°♄54'01	6.03601 AU	morning rise	-2479 Sep 14 j 10:53	21°♄26'53	
morning rise	-2484 Mar 31 j 01:10	9°♄38'09			-2479 Oct 25 j 18:26	0°♄	
retrograde	-2484 Aug 08 j 10:48	29°♄31'41		retrograde	-2478 Jan 13 j 06:41	8°♄32'56	
min. Earth dist.	-2484 Oct 05 j 18:06	24°♄37'06	4.08066 AU	opposition	-2478 Mar 14 j 23:26	3°♄41'26	1°53'56
opposition	-2484 Oct 07 j 01:09	24°♄26'30	-1°41'30	min. Earth dist.	-2478 Mar 16 j 07:11	3°♄31'18	4.37105 AU
direct	-2484 Dec 04 j 09:12	19°♄27'58			-2478 Apr 16 j 15:47	30°♄	
	-2483 Mar 01 j 19:13	0°♄		direct	-2478 May 16 j 14:17	28°♄40'56	
evening set	-2483 Apr 09 j 16:26	8°♄29'56			-2478 Jun 15 j 13:56	0°♄	
				evening set	-2478 Sep 19 j 23:49	16°♄37'21	
conjunction	-2483 Apr 23 j 10:37	11°♄39'03	-0°53'58	max. Earth dist.	-2478 Sep 30 j 16:35	19°♄00'55	6.33047 AU
minimum elong	-2483 Apr 23 j 10:40	11°♄39'05	0°53'57				
max. Earth dist.	-2483 Apr 25 j 06:10	12°♄04'03	6.13398 AU	conjunction	-2478 Oct 02 j 13:49	19°♄26'18	1°12'09
morning rise	-2483 May 07 j 05:40	14°♄48'24		minimum elong	-2478 Oct 02 j 13:51	19°♄26'19	1°12'10
	-2483 Jul 23 j 20:51	0°♄		morning rise	-2478 Oct 15 j 02:19	22°♄14'37	
retrograde	-2483 Sep 11 j 09:19	3°♄44'02			-2478 Nov 20 j 11:13	0°♄	
	-2483 Oct 30 j 23:58	30°♄		retrograde	-2477 Feb 14 j 23:31	9°♄54'23	
opposition	-2483 Nov 09 j 20:06	28°♄40'47	-0°51'58	opposition	-2477 Apr 16 j 22:38	5°♄02'19	1°29'14
min. Earth dist.	-2483 Nov 08 j 22:35	28°♄48'06	4.19290 AU	min. Earth dist.	-2477 Apr 18 j 05:09	4°♄52'35	4.28117 AU
direct	-2482 Jan 08 j 06:45	23°♄39'21		direct	-2477 Jun 17 j 21:56	0°♄04'31	
	-2482 Mar 15 j 23:32	0°♄		evening set	-2477 Oct 21 j 09:37	18°♄19'57	
evening set	-2482 May 15 j 07:45	12°♄13'09					
	-2482 May 27 j 18:55	15°♄					

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Attention, astronomical year style is used: The year -2477 in astronomical counting style is the year 2478 BCE in historical counting style.

conjunction	-2477 Nov 02 j 23:44	21°♏13'12	0°44'22			-2471 Jun 30 j 00:09	0°♐	
minimum elong	-2477 Nov 02 j 23:47	21°♏13'14	0°44'20	retrograde		-2471 Sep 15 j 21:34	8°♐27'34	
max. Earth dist.	-2477 Nov 01 j 12:45	20°♏53'04	6.22419 AU	opposition		-2471 Nov 14 j 09:02	3°♐24'45	-0°43'27
morning rise	-2477 Nov 15 j 13:35	24°♏06'36		min. Earth dist.		-2471 Nov 13 j 12:31	3°♐31'42	4.20767 AU
	-2477 Dec 12 j 00:51	0°♏				-2471 Dec 12 j 05:18	30°♐	
retrograde	-2476 Mar 20 j 13:26	12°♏38'53		direct		-2470 Jan 12 j 22:22	28°♐22'58	
opposition	-2476 May 20 j 13:51	7°♏44'36	0°35'30			-2470 Feb 14 j 02:25	0°♐	
min. Earth dist.	-2476 May 21 j 09:13	7°♏38'23	4.16479 AU			-2470 May 11 j 13:00	15°♐	
direct	-2476 Jul 20 j 08:53	2°♏49'36		evening set		-2470 May 20 j 03:23	16°♐53'33	
	-2476 Oct 24 j 06:51	15°♏						
evening set	-2476 Nov 22 j 02:11	21°♏31'02		conjunction		-2470 Jun 02 j 20:19	19°♐56'33	-0°07'43
				minimum elong		-2470 Jun 02 j 20:20	19°♐56'34	0°07'39
conjunction	-2476 Dec 04 j 19:49	24°♏30'44	0°01'25	behind sun begin		-2470 Jun 02 j 12:51	19°♐52'25	
minimum elong	-2476 Dec 04 j 19:50	24°♏30'44	0°01'21	behind sun end		-2470 Jun 03 j 03:50	20°♐00'43	
behind sun begin	-2476 Dec 04 j 11:47	24°♏26'01		max. Earth dist.		-2470 Jun 03 j 15:18	20°♐07'08	6.26563 AU
behind sun end	-2476 Dec 05 j 03:52	24°♏35'28		morning rise		-2470 Jun 16 j 11:57	22°♐58'40	
max. Earth dist.	-2476 Dec 04 j 03:56	24°♏21'23	6.10843 AU			-2470 Jul 19 j 11:09	0°♐	
desc. node	-2476 Dec 16 j 14:03	27°♏16'47		asc. node		-2470 Aug 10 j 23:00	4°♐13'43	
morning rise	-2476 Dec 17 j 15:12	27°♏31'31		retrograde		-2470 Oct 17 j 19:44	10°♐48'29	
	-2476 Dec 28 j 06:54	0°♐		opposition		-2470 Dec 16 j 10:07	5°♐49'25	0°20'28
retrograde	-2475 Apr 25 j 23:24	17°♐02'31		min. Earth dist.		-2470 Dec 16 j 05:56	5°♐50'49	4.31697 AU
opposition	-2475 Jun 25 j 18:23	12°♐04'41	-0°33'18	direct		-2469 Feb 15 j 08:01	0°♐46'04	
min. Earth dist.	-2475 Jun 25 j 19:05	12°♐04'28	4.05878 AU	evening set		-2469 Jun 22 j 21:47	18°♐52'13	
direct	-2475 Aug 24 j 04:41	7°♐11'23						
evening set	-2475 Dec 26 j 14:04	26°♐18'47		conjunction		-2469 Jul 06 j 08:08	21°♐48'34	0°34'47
				minimum elong		-2469 Jul 06 j 08:06	21°♐48'32	0°34'50
conjunction	-2474 Jan 08 j 13:59	29°♐24'56	-0°43'33	max. Earth dist.		-2469 Jul 06 j 02:17	21°♐45'21	6.35946 AU
minimum elong	-2474 Jan 08 j 13:57	29°♐24'54	0°43'37	morning rise		-2469 Jul 19 j 15:30	24°♐43'23	
max. Earth dist.	-2474 Jan 09 j 03:05	29°♐32'46	6.02201 AU			-2469 Aug 13 j 11:49	0°♐	
	-2474 Jan 11 j 00:37	0°♐		retrograde		-2469 Nov 17 j 15:19	11°♐54'11	
morning rise	-2474 Jan 21 j 16:36	2°♐32'41		opposition		-2468 Jan 16 j 14:31	6°♐58'56	1°15'50
retrograde	-2474 Jun 02 j 12:16	22°♐47'36		min. Earth dist.		-2468 Jan 17 j 01:44	6°♐55'16	4.38953 AU
opposition	-2474 Aug 01 j 19:15	17°♐45'50	-1°32'25	direct		-2468 Mar 18 j 13:40	1°♐55'31	
min. Earth dist.	-2474 Aug 01 j 01:37	17°♐51'42	4.00166 AU	evening set		-2468 Jul 24 j 04:03	19°♐47'01	
direct	-2474 Sep 29 j 03:29	12°♐52'21		max. Earth dist.		-2468 Aug 05 j 00:55	22°♐22'16	6.40470 AU
	-2473 Jan 22 j 06:53	0°♐						
evening set	-2473 Jan 31 j 19:44	2°♐15'00		conjunction		-2468 Aug 06 j 05:18	22°♐37'47	1°06'11
				minimum elong		-2468 Aug 06 j 05:15	22°♐37'45	1°06'14
conjunction	-2473 Feb 14 j 02:50	5°♐25'21	-1°13'06	morning rise		-2468 Aug 19 j 03:23	25°♐26'58	
minimum elong	-2473 Feb 14 j 02:48	5°♐25'20	1°13'09			-2468 Sep 09 j 12:30	0°♐	
max. Earth dist.	-2473 Feb 15 j 15:53	5°♐47'29	5.99826 AU	retrograde		-2468 Dec 17 j 09:36	12°♐24'01	
morning rise	-2473 Feb 27 j 13:26	8°♐37'27		opposition		-2467 Feb 15 j 17:33	7°♐31'30	1°49'06
	-2473 Mar 27 j 05:42	15°♐		min. Earth dist.		-2467 Feb 16 j 18:53	7°♐23'21	4.40619 AU
retrograde	-2473 Jul 09 j 14:40	28°♐59'17		direct		-2467 Apr 19 j 08:35	2°♐29'14	
min. Earth dist.	-2473 Sep 06 j 05:51	24°♐04'48	4.01550 AU			-2467 Jul 30 j 12:21	15°♐	
opposition	-2473 Sep 07 j 11:54	23°♐54'37	-1°56'30	evening set		-2467 Aug 24 j 10:01	20°♐17'57	
direct	-2473 Nov 04 j 10:36	18°♐58'51		max. Earth dist.		-2467 Sep 04 j 09:54	22°♐43'01	6.39029 AU
	-2472 Jan 31 j 22:36	0°♐						
evening set	-2472 Mar 08 j 22:36	8°♐18'09		conjunction		-2467 Sep 06 j 03:43	23°♐06'05	1°18'54
				minimum elong		-2467 Sep 06 j 03:42	23°♐06'05	1°18'56
conjunction	-2472 Mar 22 j 12:57	11°♐29'25	-1°14'49	morning rise		-2467 Sep 18 j 18:45	25°♐53'00	
minimum elong	-2472 Mar 22 j 12:59	11°♐29'26	1°14'51			-2467 Oct 07 j 21:07	0°♐	
max. Earth dist.	-2472 Mar 24 j 13:37	11°♐57'59	6.04721 AU	retrograde		-2466 Jan 17 j 18:58	13°♐02'13	
morning rise	-2472 Apr 05 j 05:43	14°♐41'47		opposition		-2466 Mar 19 j 13:14	8°♐10'40	1°52'24
	-2472 Jun 19 j 18:22	0°♐		min. Earth dist.		-2466 Mar 20 j 20:33	8°♐00'41	4.36250 AU
retrograde	-2472 Aug 13 j 07:11	4°♐28'26		direct		-2466 May 21 j 02:27	3°♐10'31	
	-2472 Oct 07 j 08:13	30°♐		evening set		-2466 Sep 24 j 09:08	21°♐08'22	
opposition	-2472 Oct 11 j 19:46	29°♐23'21	-1°36'18	max. Earth dist.		-2466 Oct 05 j 04:17	23°♐33'36	6.32011 AU
min. Earth dist.	-2472 Oct 10 j 14:33	29°♐33'20	4.09423 AU					
direct	-2472 Dec 09 j 07:46	24°♐24'20		conjunction		-2466 Oct 06 j 22:56	23°♐57'36	1°09'27
	-2471 Feb 08 j 08:33	0°♐		minimum elong		-2466 Oct 06 j 22:58	23°♐57'38	1°09'27
evening set	-2471 Apr 14 j 16:46	13°♐22'53		morning rise		-2466 Oct 19 j 11:08	26°♐46'16	
						-2466 Nov 03 j 01:49	0°♐	
conjunction	-2471 Apr 28 j 11:16	16°♐31'29	-0°49'07	retrograde		-2465 Feb 19 j 16:38	14°♐31'18	
minimum elong	-2471 Apr 28 j 11:19	16°♐31'31	0°49'06	opposition		-2465 Apr 21 j 16:49	9°♐39'01	1°23'13
max. Earth dist.	-2471 Apr 30 j 05:04	16°♐55'22	6.14889 AU	min. Earth dist.		-2465 Apr 22 j 22:14	9°♐29'40	4.26957 AU
morning rise	-2471 May 12 j 06:18	19°♐40'09		direct		-2465 Jun 22 j 13:44	4°♐41'41	

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Attention, astronomical year style is used: The year -2465 in astronomical counting style is the year 2466 BCE in historical counting style.

evening set	-2465 Oct 25 j 21:11	22° Ω 58'56		evening set	-2459 Apr 19 j 15:26	18° Υ 11'28	
max. Earth dist.	-2465 Nov 06 j 01:30	25° Ω 33'14	6.21232 AU				
conjunction	-2465 Nov 07 j 11:22	25° Ω 52'45	0°39'03	conjunction	-2459 May 03 j 10:02	21° Υ 19'39	-0°44'02
minimum elong	-2465 Nov 07 j 11:24	25° Ω 52'47	0°39'03	minimum elong	-2459 May 03 j 10:06	21° Υ 19'41	0°44'01
morning rise	-2465 Nov 20 j 01:50	28° Ω 46'54		max. Earth dist.	-2459 May 05 j 00:06	21° Υ 41'21	6.16108 AU
	-2465 Nov 25 j 09:48	0° \mathbb{M}		morning rise	-2459 May 17 j 05:09	24° Υ 27'47	
	-2464 Feb 14 j 06:08	15° \mathbb{M}			-2459 Jun 11 j 07:53	0° \mathcal{B}	
retrograde	-2464 Mar 25 j 10:56	17° \mathbb{M} 25'32		retrograde	-2459 Sep 20 j 10:32	13° \mathcal{B} 08'24	
	-2464 May 05 j 03:25	15° $\mathcal{R}\mathbb{M}$		opposition	-2459 Nov 18 j 21:15	8° \mathcal{B} 06'02	-0°34'49
opposition	-2464 May 25 j 12:03	12° \mathbb{M} 30'46	0°26'25	min. Earth dist.	-2459 Nov 18 j 03:19	8° \mathcal{B} 12'07	4.21983 AU
min. Earth dist.	-2464 May 26 j 04:49	12° \mathbb{M} 25'23	4.15338 AU	direct	-2458 Jan 17 j 15:06	3° \mathcal{B} 03'59	
direct	-2464 Jul 25 j 03:18	7° \mathbb{M} 36'02			-2458 Apr 24 j 09:32	15° \mathcal{B}	
	-2464 Oct 05 j 03:24	15° \mathbb{M}		evening set	-2458 May 24 j 22:04	21° \mathcal{B} 32'12	
desc. node	-2464 Oct 27 j 07:10	19° \mathbb{M} 26'45		conjunction	-2458 Jun 07 j 14:36	24° \mathcal{B} 34'32	-0°01'34
evening set	-2464 Nov 26 j 17:25	26° \mathbb{M} 19'32		minimum elong	-2458 Jun 07 j 14:36	24° \mathcal{B} 34'32	0°01'31
				behind sun begin	-2458 Jun 07 j 06:17	24° \mathcal{B} 29'56	
conjunction	-2464 Dec 09 j 11:52	29° \mathbb{M} 19'58	-0°05'07	behind sun end	-2458 Jun 07 j 22:56	24° \mathcal{B} 39'08	
minimum elong	-2464 Dec 09 j 11:51	29° \mathbb{M} 19'57	0°05'11	max. Earth dist.	-2458 Jun 08 j 07:52	24° \mathcal{B} 44'08	6.27713 AU
behind sun begin	-2464 Dec 09 j 04:03	29° \mathbb{M} 15'22		morning rise	-2458 Jun 21 j 05:14	27° \mathcal{B} 35'47	
behind sun end	-2464 Dec 09 j 19:40	29° \mathbb{M} 24'32		asc. node	-2458 Jun 21 j 09:52	27° \mathcal{B} 38'21	
max. Earth dist.	-2464 Dec 09 j 00:36	29° \mathbb{M} 13'20	6.09858 AU		-2458 Jul 02 j 04:55	0° \mathbb{I}	
	-2464 Dec 12 j 07:40	0° \mathcal{Z}		retrograde	-2458 Oct 22 j 03:28	15° \mathbb{I} 20'01	
morning rise	-2464 Dec 22 j 07:55	2° \mathcal{Z} 21'30		opposition	-2458 Dec 20 j 19:19	10° \mathbb{I} 21'31	0°29'03
retrograde	-2463 May 01 j 02:04	21° \mathcal{Z} 58'08		min. Earth dist.	-2458 Dec 20 j 16:12	10° \mathbb{I} 22'34	4.32701 AU
opposition	-2463 Jun 30 j 19:11	16° \mathcal{Z} 59'49	-0°42'33	direct	-2457 Feb 19 j 19:37	5° \mathbb{I} 18'09	
min. Earth dist.	-2463 Jun 30 j 18:10	17° \mathcal{Z} 00'09	4.05141 AU	evening set	-2457 Jun 27 j 12:10	23° \mathbb{I} 22'25	
direct	-2463 Aug 29 j 02:08	12° \mathcal{Z} 06'38					
	-2463 Dec 26 j 02:28	0° \mathcal{Z}		conjunction	-2457 Jul 10 j 21:13	26° \mathbb{I} 17'57	0°40'02
evening set	-2463 Dec 31 j 10:05	1° \mathcal{Z} 15'33		minimum elong	-2457 Jul 10 j 21:10	26° \mathbb{I} 17'55	0°40'06
				max. Earth dist.	-2457 Jul 10 j 11:23	26° \mathbb{I} 12'33	6.36728 AU
conjunction	-2462 Jan 13 j 10:42	4° \mathcal{Z} 22'14	-0°48'50	morning rise	-2457 Jul 24 j 03:27	29° \mathbb{I} 11'57	
minimum elong	-2462 Jan 13 j 10:38	4° \mathcal{Z} 22'12	0°48'54		-2457 Jul 27 j 19:59	0° \mathcal{E}	
max. Earth dist.	-2462 Jan 14 j 01:33	4° \mathcal{Z} 31'06	6.01754 AU	retrograde	-2457 Nov 21 j 23:42	16° \mathcal{E} 19'42	
morning rise	-2462 Jan 26 j 14:28	7° \mathcal{Z} 30'38		opposition	-2456 Jan 20 j 23:06	11° \mathcal{E} 24'53	1°22'02
retrograde	-2462 Jun 07 j 12:28	27° \mathcal{Z} 48'04		min. Earth dist.	-2456 Jan 21 j 13:00	11° \mathcal{E} 20'20	4.39466 AU
opposition	-2462 Aug 06 j 19:25	22° \mathcal{Z} 45'50	-1°38'08	direct	-2456 Mar 23 j 02:18	6° \mathcal{E} 21'31	
min. Earth dist.	-2462 Aug 05 j 23:18	22° \mathcal{Z} 52'34	4.00084 AU	evening set	-2456 Jul 28 j 14:08	24° \mathcal{E} 11'53	
direct	-2462 Oct 04 j 00:36	17° \mathcal{Z} 52'09		max. Earth dist.	-2456 Aug 09 j 08:34	26° \mathcal{E} 45'50	6.40645 AU
	-2461 Jan 05 j 05:17	0° \approx					
evening set	-2461 Feb 05 j 19:26	7° \approx 15'14		conjunction	-2456 Aug 10 j 14:19	27° \mathcal{E} 02'06	1°09'12
				minimum elong	-2456 Aug 10 j 14:17	27° \mathcal{E} 02'05	1°09'14
conjunction	-2461 Feb 19 j 03:39	10° \approx 25'54	-1°15'06	morning rise	-2456 Aug 23 j 11:10	29° \mathcal{E} 50'44	
minimum elong	-2461 Feb 19 j 03:37	10° \approx 25'53	1°15'08		-2456 Aug 24 j 04:12	0° \mathcal{O}	
max. Earth dist.	-2461 Feb 20 j 19:06	10° \approx 49'26	6.00104 AU		-2456 Nov 17 j 11:28	15° \mathcal{O}	
morning rise	-2461 Mar 04 j 15:03	13° \approx 38'14		retrograde	-2456 Dec 21 j 16:17	16° \mathcal{O} 47'45	
	-2461 Mar 10 j 09:56	15° \approx			-2455 Jan 25 j 02:14	15° $\mathcal{R}\mathcal{O}$	
	-2461 May 24 j 09:23	0° \mathcal{H}		opposition	-2455 Feb 20 j 03:07	11° \mathcal{O} 55'23	1°51'27
retrograde	-2461 Jul 14 j 14:14	3° \mathcal{H} 57'56		min. Earth dist.	-2455 Feb 21 j 04:40	11° \mathcal{O} 47'11	4.40448 AU
	-2461 Sep 04 j 02:32	30° $\mathcal{R}\approx$		direct	-2455 Apr 23 j 18:07	6° \mathcal{O} 53'20	
min. Earth dist.	-2461 Sep 11 j 03:38	29° \approx 03'04	4.02163 AU		-2455 Jul 12 j 03:56	15° \mathcal{O}	
opposition	-2461 Sep 12 j 08:54	28° \approx 53'07	-1°56'17	evening set	-2455 Aug 28 j 17:55	24° \mathcal{O} 42'09	
direct	-2461 Nov 09 j 09:14	23° \approx 56'56		max. Earth dist.	-2455 Sep 08 j 16:37	27° \mathcal{O} 06'50	6.38495 AU
	-2460 Jan 11 j 05:43	0° \mathcal{H}					
evening set	-2460 Mar 13 j 23:16	13° \mathcal{H} 15'05		conjunction	-2455 Sep 10 j 10:44	27° \mathcal{O} 30'08	1°18'54
				minimum elong	-2455 Sep 10 j 10:44	27° \mathcal{O} 30'08	1°18'56
conjunction	-2460 Mar 27 j 14:30	16° \mathcal{H} 26'21	-1°12'46		-2455 Sep 21 j 18:10	0° \mathbb{H}	
minimum elong	-2460 Mar 27 j 14:33	16° \mathcal{H} 26'23	1°12'46	morning rise	-2455 Sep 23 j 01:03	0° \mathbb{H} 16'58	
max. Earth dist.	-2460 Mar 29 j 15:21	16° \mathcal{H} 54'56	6.05619 AU	retrograde	-2454 Jan 22 j 06:44	17° \mathbb{H} 29'15	
morning rise	-2460 Apr 10 j 07:58	19° \mathcal{H} 38'37		opposition	-2454 Mar 24 j 01:55	12° \mathbb{H} 37'42	1°50'12
	-2460 May 27 j 20:37	0° Υ		min. Earth dist.	-2454 Mar 25 j 10:13	12° \mathbb{H} 27'25	4.35353 AU
retrograde	-2460 Aug 18 j 00:20	9° Υ 19'19		direct	-2454 May 25 j 15:09	7° \mathbb{H} 37'53	
min. Earth dist.	-2460 Oct 15 j 07:06	4° Υ 24'24	4.10519 AU	evening set	-2454 Sep 28 j 17:07	25° \mathbb{H} 37'18	
opposition	-2460 Oct 16 j 12:06	4° Υ 14'30	-1°30'35	max. Earth dist.	-2454 Oct 09 j 11:15	28° \mathbb{H} 02'26	6.30805 AU
	-2460 Nov 23 j 00:51	30° $\mathcal{R}\mathcal{H}$					
direct	-2460 Dec 14 j 01:21	29° \mathcal{H} 15'08		conjunction	-2454 Oct 11 j 06:40	28° \mathbb{H} 26'56	1°06'22
	-2459 Jan 04 j 07:28	0° Υ		minimum elong	-2454 Oct 11 j 06:43	28° \mathbb{H} 26'57	1°06'21

Attention, astronomical year style is used: The year -2454 in astronomical counting style is the year 2455 BCE in historical counting style.

	-2454 Oct 18 j 03:40	0°♏		morning rise	-2448 Apr 15 j 14:40	24°♐45'26	
morning rise	-2454 Oct 23 j 19:01	1°♏16'08			-2448 May 08 j 18:44	0°♐	
retrograde	-2453 Feb 24 j 08:38	19°♏07'16		retrograde	-2448 Aug 22 j 20:16	14°♐18'41	
opposition	-2453 Apr 26 j 10:14	14°♏14'40	1°16'43	min. Earth dist.	-2448 Oct 20 j 03:46	9°♐23'37	4.12035 AU
min. Earth dist.	-2453 Apr 27 j 13:57	14°♏05'50	4.25497 AU	opposition	-2448 Oct 21 j 07:47	9°♐14'02	-1°24'02
direct	-2453 Jun 27 j 03:24	9°♏17'38		direct	-2448 Dec 19 j 00:51	4°♐14'16	
evening set	-2453 Oct 30 j 08:06	27°♏37'57		evening set	-2447 Apr 24 j 17:08	23°♐06'29	
	-2453 Nov 09 j 14:27	0°♏					
conjunction	-2453 Nov 11 j 22:48	0°♏32'36	0°33'29	conjunction	-2447 May 08 j 11:56	26°♐13'56	-0°38'32
minimum elong	-2453 Nov 11 j 22:50	0°♏32'38	0°33'28	minimum elong	-2447 May 08 j 11:59	26°♐13'58	0°38'30
max. Earth dist.	-2453 Nov 10 j 16:18	0°♏14'58	6.19653 AU	max. Earth dist.	-2447 May 10 j 01:48	26°♐35'26	6.17912 AU
morning rise	-2453 Nov 24 j 13:44	3°♏27'40		morning rise	-2447 May 22 j 06:34	29°♐21'07	
	-2452 Jan 18 j 05:08	15°♏			-2447 May 25 j 03:49	0°♐	
retrograde	-2452 Mar 30 j 11:12	22°♏14'19		retrograde	-2447 Aug 12 j 21:35	15°♐	
opposition	-2452 May 30 j 10:58	17°♏19'09	0°17'03		-2447 Sep 24 j 23:06	17°♐52'15	
min. Earth dist.	-2452 May 31 j 02:26	17°♏14'10	4.13737 AU	opposition	-2447 Nov 06 j 21:43	15°♐	
	-2452 Jun 18 j 05:18	15°♏		min. Earth dist.	-2447 Nov 23 j 10:45	12°♐50'23	-0°25'52
direct	-2452 Jul 29 j 22:30	12°♏24'41		direct	-2447 Nov 22 j 17:52	12°♐56'05	4.23907 AU
desc. node	-2452 Sep 06 j 11:22	14°♏43'26			-2446 Jan 22 j 08:41	7°♐48'07	
	-2452 Sep 08 j 19:16	15°♏		asc. node	-2446 Apr 04 j 16:05	15°♐	
	-2452 Nov 26 j 07:07	0°♐		evening set	-2446 May 01 j 15:40	20°♐10'42	
evening set	-2452 Dec 01 j 10:12	1°♐12'02			-2446 May 29 j 17:20	26°♐11'12	
conjunction	-2452 Dec 14 j 05:17	4°♐13'24	-0°11'35	conjunction	-2446 Jun 12 j 08:50	29°♐12'21	0°04'40
minimum elong	-2452 Dec 14 j 05:16	4°♐13'24	0°11'38	minimum elong	-2446 Jun 12 j 08:49	29°♐12'20	0°04'43
behind sun begin	-2452 Dec 13 j 23:27	4°♐09'58		behind sun begin	-2446 Jun 12 j 00:43	29°♐07'53	
behind sun end	-2452 Dec 14 j 11:04	4°♐16'49		behind sun end	-2446 Jun 12 j 16:54	29°♐16'48	
max. Earth dist.	-2452 Dec 13 j 19:50	4°♐07'49	6.08375 AU	max. Earth dist.	-2446 Jun 12 j 21:37	29°♐19'25	6.29605 AU
morning rise	-2452 Dec 27 j 02:28	7°♐16'03			-2446 Jun 15 j 22:50	0°♐	
retrograde	-2451 May 06 j 05:15	27°♐00'14		morning rise	-2446 Jun 25 j 22:34	2°♐12'23	
opposition	-2451 Jul 05 j 21:57	22°♐01'20	-0°51'43	retrograde	-2446 Oct 26 j 10:53	19°♐48'36	
min. Earth dist.	-2451 Jul 05 j 17:26	22°♐02'49	4.03927 AU	opposition	-2446 Dec 25 j 04:01	14°♐50'35	0°37'20
direct	-2451 Sep 02 j 23:37	17°♐08'10		min. Earth dist.	-2446 Dec 25 j 03:40	14°♐50'42	4.34416 AU
	-2451 Dec 08 j 23:39	0°♐		direct	-2445 Feb 24 j 10:01	9°♐47'05	
evening set	-2450 Jan 05 j 09:35	6°♐20'35		evening set	-2445 Jul 02 j 00:05	27°♐46'54	
					-2445 Jul 12 j 04:22	0°♐	
conjunction	-2450 Jan 18 j 11:20	9°♐28'06	-0°53'54	conjunction	-2445 Jul 15 j 07:59	0°♐41'21	0°44'56
minimum elong	-2450 Jan 18 j 11:17	9°♐28'04	0°53'58	minimum elong	-2445 Jul 15 j 07:56	0°♐41'19	0°45'00
max. Earth dist.	-2450 Jan 19 j 06:37	9°♐39'39	6.00917 AU	max. Earth dist.	-2445 Jul 14 j 20:23	0°♐35'00	6.38124 AU
morning rise	-2450 Jan 31 j 16:04	12°♐37'18		morning rise	-2445 Jul 28 j 12:38	3°♐34'11	
	-2450 Apr 29 j 15:06	0°♐		retrograde	-2445 Nov 26 j 02:17	20°♐37'12	
retrograde	-2450 Jun 12 j 19:08	2°♐58'29		opposition	-2444 Jan 25 j 04:51	15°♐42'48	1°27'32
	-2450 Jul 27 j 00:59	30°♐		min. Earth dist.	-2444 Jan 25 j 20:03	15°♐37'51	4.40462 AU
opposition	-2450 Aug 11 j 23:19	27°♐55'46	-1°43'18	direct	-2444 Mar 27 j 10:32	10°♐39'34	
min. Earth dist.	-2450 Aug 11 j 02:12	28°♐02'51	3.99727 AU	evening set	-2444 Aug 01 j 20:47	28°♐27'22	
direct	-2450 Oct 09 j 03:17	23°♐01'50			-2444 Aug 08 j 22:59	0°♐	
	-2450 Dec 15 j 19:27	0°♐		max. Earth dist.	-2444 Aug 13 j 10:03	0°♐58'31	6.41135 AU
evening set	-2449 Feb 10 j 23:51	12°♐26'15					
	-2449 Feb 21 j 18:29	15°♐		conjunction	-2444 Aug 14 j 19:35	1°♐16'51	1°11'41
conjunction	-2449 Feb 24 j 09:10	15°♐37'21	-1°16'34	minimum elong	-2444 Aug 14 j 19:32	1°♐16'50	1°11'44
minimum elong	-2449 Feb 24 j 09:09	15°♐37'20	1°16'37	morning rise	-2444 Aug 27 j 15:23	4°♐04'51	
max. Earth dist.	-2449 Feb 26 j 03:21	16°♐02'27	6.00252 AU		-2444 Oct 21 j 15:41	15°♐	
morning rise	-2449 Mar 09 j 21:41	18°♐50'04		retrograde	-2444 Dec 25 j 21:36	21°♐01'13	
	-2449 Apr 29 j 13:28	0°♐		opposition	-2443 Feb 24 j 09:08	16°♐09'04	1°53'03
retrograde	-2449 Jul 19 j 16:49	9°♐07'21		min. Earth dist.	-2443 Feb 25 j 13:29	15°♐59'59	4.40401 AU
min. Earth dist.	-2449 Sep 16 j 03:16	4°♐12'51	4.02837 AU		-2443 Mar 05 j 10:26	15°♐	
opposition	-2449 Sep 17 j 09:59	4°♐02'24	-1°55'10	direct	-2443 Apr 28 j 02:28	11°♐07'12	
	-2449 Oct 22 j 10:33	30°♐			-2443 Jun 20 j 00:11	15°♐	
direct	-2449 Nov 14 j 09:50	29°♐05'52		evening set	-2443 Sep 01 j 21:38	28°♐56'00	
	-2449 Dec 07 j 12:26	0°♐			-2443 Sep 06 j 17:55	0°♐	
evening set	-2448 Mar 19 j 04:40	18°♐22'22		max. Earth dist.	-2443 Sep 12 j 17:59	1°♐19'39	6.37888 AU
conjunction	-2448 Apr 01 j 20:34	21°♐33'27	-1°10'05	conjunction	-2443 Sep 14 j 13:53	1°♐43'57	1°18'28
minimum elong	-2448 Apr 01 j 20:37	21°♐33'29	1°10'04	minimum elong	-2443 Sep 14 j 13:53	1°♐43'57	1°18'30
max. Earth dist.	-2448 Apr 03 j 20:29	22°♐01'25	6.06768 AU	morning rise	-2443 Sep 27 j 03:36	4°♐30'49	
				retrograde	-2442 Jan 26 j 13:59	21°♐46'52	

Attention, astronomical year style is used: The year -2442 in astronomical counting style is the year 2443 BCE in historical counting style.

opposition	-2442 Mar 28 j 11:06	16° \mathbb{M} 55'16	1°47'29	conjunction	-2436 Apr 07 j 04:25	26° \mathbb{H} 44'33	-1°06'48
min. Earth dist.	-2442 Mar 29 j 19:14	16° \mathbb{M} 45'02	4.34220 AU	minimum elong	-2436 Apr 07 j 04:28	26° \mathbb{H} 44'35	1°06'48
direct	-2442 May 29 j 21:40	11° \mathbb{M} 55'46		max. Earth dist.	-2436 Apr 09 j 05:59	27° \mathbb{H} 13'22	6.08202 AU
evening set	-2442 Oct 02 j 21:50	29° \mathbb{M} 57'56		morning rise	-2436 Apr 20 j 22:48	29° \mathbb{H} 56'00	
	-2442 Oct 03 j 01:32	0° \mathbb{L}			-2436 Apr 21 j 05:44	0° \mathbb{Y}	
max. Earth dist.	-2442 Oct 13 j 16:35	2° \mathbb{L} 23'57	6.29230 AU	retrograde	-2436 Aug 27 j 16:51	19° \mathbb{Y} 20'18	
				min. Earth dist.	-2436 Oct 25 j 00:49	14° \mathbb{Y} 25'07	4.13798 AU
conjunction	-2442 Oct 15 j 11:20	2° \mathbb{L} 48'10	1°02'59	opposition	-2436 Oct 26 j 03:57	14° \mathbb{Y} 15'52	-1°16'49
minimum elong	-2442 Oct 15 j 11:22	2° \mathbb{L} 48'11	1°02'59	direct	-2436 Dec 24 j 00:40	9° \mathbb{Y} 15'40	
morning rise	-2442 Oct 27 j 23:46	5° \mathbb{L} 38'04		evening set	-2435 Apr 29 j 19:13	28° \mathbb{Y} 02'54	
retrograde	-2441 Mar 01 j 01:02	23° \mathbb{L} 37'00			-2435 May 08 j 10:55	0° \mathbb{B}	
opposition	-2441 May 01 j 01:26	18° \mathbb{L} 44'13	1°09'56				
min. Earth dist.	-2441 May 02 j 05:33	18° \mathbb{L} 35'15	4.23555 AU	conjunction	-2435 May 13 j 13:44	1° \mathbb{B} 09'26	-0°32'43
direct	-2441 Jul 01 j 15:42	13° \mathbb{L} 47'32		minimum elong	-2435 May 13 j 13:47	1° \mathbb{B} 09'27	0°32'41
	-2441 Oct 25 j 01:07	0° \mathbb{M}		max. Earth dist.	-2435 May 14 j 23:51	1° \mathbb{B} 28'42	6.19824 AU
evening set	-2441 Nov 03 j 17:45	2° \mathbb{M} 13'01		morning rise	-2435 May 27 j 08:08	4° \mathbb{B} 15'37	
max. Earth dist.	-2441 Nov 15 j 03:03	4° \mathbb{M} 51'26	6.17516 AU		-2435 Jul 17 j 23:28	15° \mathbb{B}	
				retrograde	-2435 Sep 29 j 11:28	22° \mathbb{B} 37'16	
conjunction	-2441 Nov 16 j 08:55	5° \mathbb{M} 08'47	0°27'50	min. Earth dist.	-2435 Nov 27 j 09:47	17° \mathbb{B} 40'49	4.25767 AU
minimum elong	-2441 Nov 16 j 08:57	5° \mathbb{M} 08'48	0°27'48	opposition	-2435 Nov 28 j 00:35	17° \mathbb{B} 35'50	-0°16'41
morning rise	-2441 Nov 29 j 00:45	8° \mathbb{M} 05'07			-2435 Dec 18 j 08:24	15° \mathbb{R} \mathbb{B}	
	-2441 Dec 29 j 23:53	15° \mathbb{M}		direct	-2434 Jan 27 j 03:44	12° \mathbb{B} 33'14	
retrograde	-2440 Apr 04 j 10:04	27° \mathbb{M} 02'05			-2434 Mar 08 j 10:38	15° \mathbb{B}	
opposition	-2440 Jun 04 j 09:04	22° \mathbb{M} 06'29	0°07'41	asc. node	-2434 Mar 10 j 15:58	15° \mathbb{B} 15'40	
min. Earth dist.	-2440 Jun 04 j 21:29	22° \mathbb{M} 02'29	4.11573 AU		-2434 May 30 j 14:13	0° \mathbb{I}	
desc. node	-2440 Jul 18 j 15:24	17° \mathbb{M} 36'58		evening set	-2434 Jun 03 j 12:41	0° \mathbb{I} 51'40	
direct	-2440 Aug 03 j 13:56	17° \mathbb{M} 12'18					
	-2440 Nov 09 j 13:02	0° \mathbb{J}		conjunction	-2434 Jun 17 j 03:25	3° \mathbb{I} 51'45	0°10'49
evening set	-2440 Dec 06 j 03:39	6° \mathbb{J} 06'00		minimum elong	-2434 Jun 17 j 03:24	3° \mathbb{I} 51'44	0°10'53
				behind sun begin	-2434 Jun 16 j 21:12	3° \mathbb{I} 48'20	
conjunction	-2440 Dec 18 j 23:46	9° \mathbb{J} 08'40	-0°17'56	behind sun end	-2434 Jun 17 j 09:35	3° \mathbb{I} 55'08	
minimum elong	-2440 Dec 18 j 23:44	9° \mathbb{J} 08'40	0°17'59	max. Earth dist.	-2434 Jun 17 j 13:37	3° \mathbb{I} 57'22	6.31277 AU
max. Earth dist.	-2440 Dec 18 j 18:53	9° \mathbb{J} 05'47	6.06391 AU	morning rise	-2434 Jun 30 j 15:50	6° \mathbb{I} 50'34	
morning rise	-2440 Dec 31 j 21:58	12° \mathbb{J} 12'40		retrograde	-2434 Oct 30 j 19:03	24° \mathbb{I} 19'53	
	-2439 Apr 04 j 10:05	0° \mathbb{Z}		opposition	-2434 Dec 29 j 13:35	19° \mathbb{I} 22'27	0°45'32
retrograde	-2439 May 11 j 12:41	2° \mathbb{Z} 06'28		min. Earth dist.	-2434 Dec 29 j 15:27	19° \mathbb{I} 21'50	4.35773 AU
	-2439 Jun 17 j 16:11	30° \mathbb{R} \mathbb{J}		direct	-2433 Feb 28 j 23:53	14° \mathbb{I} 18'55	
opposition	-2439 Jul 11 j 02:12	27° \mathbb{J} 07'01	-1°00'32		-2433 Jun 26 j 00:59	0° \mathbb{E}	
min. Earth dist.	-2439 Jul 10 j 19:44	27° \mathbb{J} 09'09	4.02317 AU	evening set	-2433 Jul 06 j 13:36	2° \mathbb{E} 15'41	
direct	-2439 Sep 07 j 23:53	22° \mathbb{J} 13'55					
	-2439 Nov 19 j 06:28	0° \mathbb{Z}		conjunction	-2433 Jul 19 j 20:04	5° \mathbb{E} 09'12	0°49'43
evening set	-2438 Jan 10 j 11:26	11° \mathbb{Z} 31'23		minimum elong	-2433 Jul 19 j 20:01	5° \mathbb{E} 09'10	0°49'46
				max. Earth dist.	-2433 Jul 19 j 03:25	5° \mathbb{E} 00'06	6.39048 AU
conjunction	-2438 Jan 23 j 14:18	14° \mathbb{Z} 39'54	-0°58'33	morning rise	-2433 Aug 01 j 23:33	8° \mathbb{E} 01'08	
minimum elong	-2438 Jan 23 j 14:15	14° \mathbb{Z} 39'52	0°58'37	retrograde	-2433 Nov 30 j 09:58	25° \mathbb{E} 01'12	
max. Earth dist.	-2438 Jan 24 j 13:51	14° \mathbb{Z} 54'01	5.99826 AU	opposition	-2432 Jan 29 j 13:25	20° \mathbb{E} 07'11	1°32'48
morning rise	-2438 Feb 05 j 20:22	17° \mathbb{Z} 50'10		min. Earth dist.	-2432 Jan 30 j 07:28	20° \mathbb{E} 01'19	4.40920 AU
	-2438 Apr 02 j 06:26	0° \mathbb{A}		direct	-2432 Mar 31 j 22:21	15° \mathbb{E} 04'00	
retrograde	-2438 Jun 18 j 03:05	8° \mathbb{A} 15'30			-2432 Jul 23 j 23:15	0° \mathbb{O}	
min. Earth dist.	-2438 Aug 16 j 04:55	3° \mathbb{A} 20'31	3.99313 AU	evening set	-2432 Aug 06 j 06:00	2° \mathbb{O} 50'56	
opposition	-2438 Aug 17 j 05:11	3° \mathbb{A} 12'21	-1°47'39	max. Earth dist.	-2432 Aug 17 j 17:04	5° \mathbb{O} 20'57	6.41082 AU
	-2438 Sep 12 j 07:03	30° \mathbb{R} \mathbb{Z}					
direct	-2438 Oct 14 j 06:07	28° \mathbb{Z} 18'11		conjunction	-2432 Aug 19 j 03:52	5° \mathbb{O} 39'59	1°13'56
	-2438 Nov 15 j 02:38	0° \mathbb{A}		minimum elong	-2432 Aug 19 j 03:50	5° \mathbb{O} 39'58	1°13'59
	-2437 Feb 04 j 15:37	15° \mathbb{A}		morning rise	-2432 Aug 31 j 22:26	8° \mathbb{O} 27'32	
evening set	-2437 Feb 16 j 07:14	17° \mathbb{A} 44'01			-2432 Oct 02 j 02:16	15° \mathbb{O}	
				retrograde	-2432 Dec 30 j 05:33	25° \mathbb{O} 25'05	
conjunction	-2437 Mar 01 j 17:34	20° \mathbb{A} 55'28	-1°17'24	opposition	-2431 Feb 28 j 19:30	20° \mathbb{O} 33'08	1°54'12
minimum elong	-2437 Mar 01 j 17:34	20° \mathbb{A} 55'28	1°17'27	min. Earth dist.	-2431 Mar 02 j 00:19	20° \mathbb{O} 23'54	4.39859 AU
max. Earth dist.	-2437 Mar 03 j 13:43	21° \mathbb{A} 21'43	6.00520 AU	direct	-2431 May 02 j 12:08	15° \mathbb{O} 31'33	
morning rise	-2437 Mar 15 j 07:10	24° \mathbb{A} 08'29			-2431 Aug 21 j 17:57	0° \mathbb{M}	
	-2437 Apr 09 j 18:30	0° \mathbb{H}		evening set	-2431 Sep 06 j 05:54	3° \mathbb{M} 21'39	
retrograde	-2437 Jul 24 j 19:56	14° \mathbb{H} 22'15		max. Earth dist.	-2431 Sep 16 j 23:57	5° \mathbb{M} 44'28	6.36889 AU
min. Earth dist.	-2437 Sep 21 j 05:02	9° \mathbb{H} 27'44	4.03736 AU				
opposition	-2437 Sep 22 j 12:25	9° \mathbb{H} 17'02	-1°53'03	conjunction	-2431 Sep 18 j 21:21	6° \mathbb{M} 09'41	1°17'37
direct	-2437 Nov 19 j 13:59	4° \mathbb{H} 19'58		minimum elong	-2431 Sep 18 j 21:22	6° \mathbb{M} 09'42	1°17'37
evening set	-2436 Mar 24 j 11:38	23° \mathbb{H} 33'46		morning rise	-2431 Oct 01 j 10:43	8° \mathbb{M} 56'47	

Attention, astronomical year style is used: The year -2430 in astronomical counting style is the year 2431 BCE in historical counting style.

retrograde	-2430 Jan 31 j 05:18	26° \mathbb{M} 17'49		evening set	-2424 Mar 29 j 14:50	28° \mathbb{K} 34'34	
opposition	-2430 Apr 02 j 02:06	21° \mathbb{M} 26'11	1°44'03		-2424 Apr 04 j 18:55	0° \mathbb{Y}	
min. Earth dist.	-2430 Apr 03 j 11:20	21° \mathbb{M} 15'37	4.32816 AU				
direct	-2430 Jun 03 j 11:34	16° \mathbb{M} 27'01		conjunction	-2424 Apr 12 j 07:56	1° \mathbb{Y} 44'45	-1°03'08
	-2430 Sep 16 j 17:50	0° \mathbb{L}		minimum elong	-2424 Apr 12 j 08:00	1° \mathbb{Y} 44'47	1°03'08
evening set	-2430 Oct 07 j 07:56	4° \mathbb{L} 32'26		max. Earth dist.	-2424 Apr 14 j 07:06	2° \mathbb{Y} 12'03	6.09936 AU
max. Earth dist.	-2430 Oct 18 j 03:33	6° \mathbb{L} 59'31	6.27548 AU	morning rise	-2424 Apr 26 j 02:44	4° \mathbb{Y} 55'33	
				retrograde	-2424 Sep 01 j 07:27	24° \mathbb{Y} 10'26	
conjunction	-2430 Oct 19 j 21:32	7° \mathbb{L} 23'23	0°59'03	opposition	-2424 Oct 30 j 19:44	19° \mathbb{Y} 06'19	-1°09'19
minimum elong	-2430 Oct 19 j 21:35	7° \mathbb{L} 23'24	0°59'03	min. Earth dist.	-2424 Oct 29 j 17:41	19° \mathbb{Y} 15'11	4.15637 AU
morning rise	-2430 Nov 01 j 10:13	10° \mathbb{L} 14'06		direct	-2424 Dec 28 j 20:20	14° \mathbb{Y} 05'42	
retrograde	-2429 Mar 05 j 21:18	28° \mathbb{L} 21'02			-2423 Apr 22 j 01:28	0° \mathbb{B}	
opposition	-2429 May 05 j 22:35	23° \mathbb{L} 27'57	1°02'19	evening set	-2423 May 04 j 16:58	2° \mathbb{B} 48'16	
min. Earth dist.	-2429 May 07 j 00:09	23° \mathbb{L} 19'47	4.21715 AU				
direct	-2429 Jul 06 j 07:16	18° \mathbb{L} 31'41		conjunction	-2423 May 18 j 11:21	5° \mathbb{B} 53'56	-0°26'54
	-2429 Oct 07 j 19:36	0° \mathbb{M}		minimum elong	-2423 May 18 j 11:23	5° \mathbb{B} 53'57	0°26'52
evening set	-2429 Nov 08 j 08:46	7° \mathbb{M} 01'36		max. Earth dist.	-2423 May 19 j 18:26	6° \mathbb{B} 11'27	6.21633 AU
max. Earth dist.	-2429 Nov 19 j 22:15	9° \mathbb{M} 43'04	6.15700 AU	morning rise	-2423 Jun 01 j 05:04	8° \mathbb{B} 59'05	
					-2423 Jun 28 j 22:30	15° \mathbb{B}	
conjunction	-2429 Nov 21 j 00:29	9° \mathbb{M} 58'23	0°21'41	retrograde	-2423 Oct 03 j 22:04	27° \mathbb{B} 12'17	
minimum elong	-2429 Nov 21 j 00:30	9° \mathbb{M} 58'24	0°21'38	opposition	-2423 Dec 02 j 10:45	22° \mathbb{B} 11'29	-0°07'44
morning rise	-2429 Dec 03 j 17:03	12° \mathbb{M} 55'50		min. Earth dist.	-2423 Dec 01 j 22:55	22° \mathbb{B} 15'27	4.27376 AU
	-2429 Dec 12 j 16:35	15° \mathbb{M}		asc. node	-2422 Jan 19 j 01:03	17° \mathbb{B} 24'20	
	-2428 Mar 04 j 00:52	0° \mathbb{J}		direct	-2422 Jan 31 j 19:02	17° \mathbb{B} 08'42	
retrograde	-2428 Apr 09 j 15:55	2° \mathbb{J} 01'53			-2422 May 13 j 22:23	0° \mathbb{I}	
	-2428 May 16 j 10:40	30° \mathbb{K} \mathbb{M}		evening set	-2422 Jun 08 j 04:34	5° \mathbb{I} 23'41	
desc. node	-2428 May 27 j 19:05	28° \mathbb{M} 42'40					
opposition	-2428 Jun 09 j 12:35	27° \mathbb{M} 05'48	-0°02'14	conjunction	-2422 Jun 21 j 18:18	8° \mathbb{I} 22'51	0°16'44
min. Earth dist.	-2428 Jun 09 j 23:00	27° \mathbb{M} 02'25	4.09933 AU	minimum elong	-2422 Jun 21 j 18:17	8° \mathbb{I} 22'50	0°16'48
direct	-2428 Aug 08 j 13:31	22° \mathbb{M} 11'54		max. Earth dist.	-2422 Jun 21 j 23:38	8° \mathbb{I} 25'47	6.32554 AU
	-2428 Oct 21 j 00:29	0° \mathbb{J}		morning rise	-2422 Jul 05 j 05:44	11° \mathbb{I} 20'43	
evening set	-2428 Dec 11 j 01:22	11° \mathbb{J} 09'42		retrograde	-2422 Nov 04 j 01:23	28° \mathbb{I} 45'01	
				opposition	-2421 Jan 02 j 21:03	23° \mathbb{I} 48'08	0°53'16
conjunction	-2428 Dec 23 j 22:20	14° \mathbb{J} 13'19	-0°24'25	min. Earth dist.	-2421 Jan 03 j 01:21	23° \mathbb{I} 46'43	4.36655 AU
minimum elong	-2428 Dec 23 j 22:18	14° \mathbb{J} 13'17	0°24'29	direct	-2421 Mar 05 j 10:34	18° \mathbb{I} 44'33	
max. Earth dist.	-2428 Dec 23 j 21:43	14° \mathbb{J} 12'56	6.05102 AU		-2421 Jun 09 j 02:54	0° \mathbb{G}	
morning rise	-2427 Jan 05 j 21:38	17° \mathbb{J} 18'20		evening set	-2421 Jul 11 j 00:46	6° \mathbb{G} 40'00	
	-2427 Mar 05 j 17:43	0° \mathbb{Z}		max. Earth dist.	-2421 Jul 23 j 11:07	9° \mathbb{G} 22'29	6.39469 AU
retrograde	-2427 May 16 j 19:55	7° \mathbb{Z} 18'26					
opposition	-2427 Jul 16 j 08:39	2° \mathbb{Z} 18'28	-1°09'06	conjunction	-2421 Jul 24 j 06:08	9° \mathbb{G} 32'52	0°54'07
min. Earth dist.	-2427 Jul 15 j 22:23	2° \mathbb{Z} 21'51	4.01559 AU	minimum elong	-2421 Jul 24 j 06:05	9° \mathbb{G} 32'50	0°54'10
	-2427 Aug 03 j 13:56	30° \mathbb{K} \mathbb{J}		morning rise	-2421 Aug 06 j 08:12	12° \mathbb{G} 24'06	
direct	-2427 Sep 13 j 01:38	27° \mathbb{J} 25'24		retrograde	-2421 Dec 04 j 16:43	29° \mathbb{G} 23'08	
	-2427 Oct 22 j 22:25	0° \mathbb{Z}		opposition	-2420 Feb 02 j 21:16	24° \mathbb{G} 29'35	1°37'29
evening set	-2426 Jan 15 j 15:10	16° \mathbb{Z} 44'41		min. Earth dist.	-2420 Feb 03 j 17:08	24° \mathbb{G} 23'09	4.40885 AU
				direct	-2420 Apr 05 j 07:40	19° \mathbb{G} 26'37	
conjunction	-2426 Jan 28 j 18:56	19° \mathbb{Z} 53'41	-1°02'50		-2420 Jul 06 j 20:32	0° \mathbb{Q}	
minimum elong	-2426 Jan 28 j 18:53	19° \mathbb{Z} 53'39	1°02'53	evening set	-2420 Aug 10 j 14:59	7° \mathbb{Q} 14'17	
max. Earth dist.	-2426 Jan 29 j 21:52	20° \mathbb{Z} 09'50	5.99648 AU	max. Earth dist.	-2420 Aug 21 j 21:26	9° \mathbb{Q} 42'07	6.40573 AU
morning rise	-2426 Feb 11 j 02:04	23° \mathbb{Z} 04'27					
	-2426 Mar 13 j 03:22	0° \mathbb{W}		conjunction	-2420 Aug 23 j 11:40	10° \mathbb{Q} 03'05	1°15'44
retrograde	-2426 Jun 23 j 08:49	13° \mathbb{W} 29'59		minimum elong	-2420 Aug 23 j 11:38	10° \mathbb{Q} 03'04	1°15'46
min. Earth dist.	-2426 Aug 21 j 07:51	8° \mathbb{W} 35'10	3.99751 AU	morning rise	-2420 Sep 05 j 05:28	12° \mathbb{Q} 50'30	
opposition	-2426 Aug 22 j 09:56	8° \mathbb{W} 26'22	-1°51'07		-2420 Sep 15 j 04:49	15° \mathbb{Q}	
direct	-2426 Oct 19 j 10:35	3° \mathbb{W} 31'49		retrograde	-2419 Jan 03 j 16:47	29° \mathbb{Q} 50'47	
	-2425 Jan 17 j 15:05	15° \mathbb{W}		opposition	-2419 Mar 05 j 06:42	24° \mathbb{Q} 59'01	1°54'42
evening set	-2425 Feb 21 j 12:50	22° \mathbb{W} 56'03		min. Earth dist.	-2419 Mar 06 j 13:05	24° \mathbb{Q} 49'17	4.38938 AU
				direct	-2419 May 06 j 23:16	19° \mathbb{Q} 57'42	
conjunction	-2425 Mar 07 j 00:16	26° \mathbb{W} 07'30	-1°17'39		-2419 Aug 04 j 07:34	0° \mathbb{M}	
minimum elong	-2425 Mar 07 j 00:17	26° \mathbb{W} 07'30	1°17'41	evening set	-2419 Sep 10 j 14:43	7° \mathbb{M} 50'14	
max. Earth dist.	-2425 Mar 08 j 23:44	26° \mathbb{W} 35'38	6.01518 AU	max. Earth dist.	-2419 Sep 21 j 09:32	10° \mathbb{M} 13'54	6.35630 AU
morning rise	-2425 Mar 20 j 14:32	29° \mathbb{W} 20'21					
	-2425 Mar 23 j 10:09	0° \mathbb{K}		conjunction	-2419 Sep 23 j 05:52	10° \mathbb{M} 38'36	1°16'16
retrograde	-2425 Jul 29 j 20:23	19° \mathbb{K} 27'46		minimum elong	-2419 Sep 23 j 05:53	10° \mathbb{M} 38'37	1°16'17
min. Earth dist.	-2425 Sep 26 j 04:23	14° \mathbb{K} 33'08	4.05180 AU	morning rise	-2419 Oct 05 j 18:45	13° \mathbb{M} 26'03	
opposition	-2425 Sep 27 j 11:30	14° \mathbb{K} 22'31	-1°50'07		-2418 Jan 11 j 22:55	0° \mathbb{L}	
direct	-2425 Nov 24 j 14:48	9° \mathbb{K} 25'03		retrograde	-2418 Feb 04 j 20:27	0° \mathbb{L} 52'56	

Attention, astronomical year style is used: The year -2418 in astronomical counting style is the year 2419 BCE in historical counting style.

	-2418 Feb 28 j 20:34	30° \mathbb{R} \mathbb{M}		retrograde	-2413 Aug 03 j 16:37	24° \mathbb{H} 28'50	
opposition	-2418 Apr 06 j 18:39	26° \mathbb{M} 01'13	1°39'54	min. Earth dist.	-2413 Oct 01 j 00:45	19° \mathbb{H} 34'19	4.06454 AU
min. Earth dist.	-2418 Apr 08 j 02:31	25° \mathbb{M} 51'05	4.31311 AU	opposition	-2413 Oct 02 j 08:13	19° \mathbb{H} 23'34	-1°46'29
direct	-2418 Jun 08 j 00:18	21° \mathbb{M} 02'31		direct	-2413 Nov 29 j 13:22	14° \mathbb{H} 25'36	
	-2418 Aug 29 j 12:58	0° \mathbb{L}			-2412 Mar 19 j 03:00	0° \mathbb{Y}	
evening set	-2418 Oct 11 j 19:19	9° \mathbb{L} 11'16		evening set	-2412 Apr 03 j 16:38	3° \mathbb{Y} 31'45	
max. Earth dist.	-2418 Oct 22 j 16:33	11° \mathbb{L} 39'51	6.25926 AU				
				conjunction	-2412 Apr 17 j 10:21	6° \mathbb{Y} 41'31	-0°59'06
conjunction	-2418 Oct 24 j 08:52	12° \mathbb{L} 02'52	0°54'42	minimum elong	-2412 Apr 17 j 10:24	6° \mathbb{Y} 41'33	0°59'05
minimum elong	-2418 Oct 24 j 08:54	12° \mathbb{L} 02'54	0°54'41	max. Earth dist.	-2412 Apr 19 j 08:00	7° \mathbb{Y} 07'50	6.11442 AU
morning rise	-2418 Nov 05 j 21:55	14° \mathbb{L} 54'25		morning rise	-2412 May 01 j 05:15	9° \mathbb{Y} 51'41	
	-2417 Jan 23 j 16:37	0° \mathbb{L}		retrograde	-2412 Sep 05 j 23:51	28° \mathbb{Y} 58'11	
retrograde	-2417 Mar 10 j 21:16	3° \mathbb{M} 09'08		min. Earth dist.	-2412 Nov 03 j 11:12	24° \mathbb{Y} 02'26	4.17195 AU
	-2417 Apr 26 j 22:58	30° \mathbb{R} \mathbb{L}		opposition	-2412 Nov 04 j 10:43	23° \mathbb{Y} 54'26	-1°01'29
opposition	-2417 May 10 j 21:20	28° \mathbb{L} 15'41	0°54'09	direct	-2411 Jan 02 j 16:06	18° \mathbb{Y} 53'25	
min. Earth dist.	-2417 May 11 j 21:35	28° \mathbb{L} 07'56	4.20070 AU		-2411 Apr 04 j 12:01	0° \mathbb{B}	
direct	-2417 Jul 11 j 02:36	23° \mathbb{L} 19'48		evening set	-2411 May 09 j 14:09	7° \mathbb{B} 32'15	
	-2417 Sep 17 j 16:33	0° \mathbb{M}					
evening set	-2417 Nov 13 j 00:41	11° \mathbb{M} 53'12		conjunction	-2411 May 23 j 08:15	10° \mathbb{B} 37'11	-0°20'55
				minimum elong	-2411 May 23 j 08:17	10° \mathbb{B} 37'11	0°20'53
conjunction	-2417 Nov 25 j 17:02	14° \mathbb{M} 50'52	0°15'20	max. Earth dist.	-2411 May 24 j 12:05	10° \mathbb{B} 52'47	6.23126 AU
minimum elong	-2417 Nov 25 j 17:04	14° \mathbb{M} 50'53	0°15'18	morning rise	-2411 Jun 06 j 01:29	13° \mathbb{B} 41'27	
behind sun begin	-2417 Nov 25 j 14:13	14° \mathbb{M} 49'14			-2411 Jun 11 j 23:11	15° \mathbb{B}	
behind sun end	-2417 Nov 25 j 19:54	14° \mathbb{M} 52'32			-2411 Sep 04 j 15:32	0° \mathbb{I}	
max. Earth dist.	-2417 Nov 24 j 18:33	14° \mathbb{M} 37'43	6.14190 AU	retrograde	-2411 Oct 08 j 07:13	1° \mathbb{I} 47'25	
	-2417 Nov 26 j 08:39	15° \mathbb{M}			-2411 Nov 10 j 18:26	30° \mathbb{R} \mathbb{B}	
morning rise	-2417 Dec 08 j 10:21	17° \mathbb{M} 49'18		asc. node	-2411 Nov 29 j 02:06	27° \mathbb{B} 49'26	
	-2416 Feb 03 j 18:49	0° \mathbb{J}		opposition	-2411 Dec 06 j 21:13	26° \mathbb{B} 47'06	0°01'16
desc. node	-2416 Apr 06 j 02:36	6° \mathbb{J} 55'45		min. Earth dist.	-2411 Dec 06 j 10:53	26° \mathbb{B} 50'34	4.28682 AU
retrograde	-2416 Apr 14 j 18:42	7° \mathbb{J} 02'51		direct	-2410 Feb 05 j 08:35	21° \mathbb{B} 44'07	
opposition	-2416 Jun 14 j 15:47	2° \mathbb{J} 06'15	-0°12'09		-2410 Apr 25 j 05:54	0° \mathbb{I}	
min. Earth dist.	-2416 Jun 14 j 22:47	2° \mathbb{J} 03'58	4.08690 AU	evening set	-2410 Jun 12 j 20:50	9° \mathbb{I} 56'31	
	-2416 Jul 01 j 10:21	30° \mathbb{R} \mathbb{M}					
direct	-2416 Aug 13 j 11:27	27° \mathbb{M} 12'36		conjunction	-2410 Jun 26 j 09:34	12° \mathbb{I} 54'51	0°22'36
	-2416 Sep 24 j 15:30	0° \mathbb{J}		minimum elong	-2410 Jun 26 j 09:33	12° \mathbb{I} 54'50	0°22'40
evening set	-2416 Dec 15 j 22:58	16° \mathbb{J} 13'04		max. Earth dist.	-2410 Jun 26 j 11:05	12° \mathbb{I} 55'40	6.33583 AU
				morning rise	-2410 Jul 09 j 19:50	15° \mathbb{I} 51'48	
conjunction	-2416 Dec 28 j 20:40	19° \mathbb{J} 17'24	-0°30'43		-2410 Sep 23 j 10:54	0° \mathbb{B}	
minimum elong	-2416 Dec 28 j 20:38	19° \mathbb{J} 17'23	0°30'47	retrograde	-2410 Nov 08 j 10:08	3° \mathbb{B} 11'52	
max. Earth dist.	-2416 Dec 28 j 23:36	19° \mathbb{J} 19'09	6.04214 AU		-2410 Dec 24 j 16:48	30° \mathbb{R} \mathbb{I}	
morning rise	-2415 Jan 10 j 21:01	22° \mathbb{J} 23'15		opposition	-2409 Jan 07 j 05:41	28° \mathbb{I} 15'33	1°00'48
	-2415 Feb 13 j 05:47	0° \mathbb{B}		min. Earth dist.	-2409 Jan 07 j 12:50	28° \mathbb{I} 13'11	4.37344 AU
retrograde	-2415 May 22 j 01:57	12° \mathbb{B} 28'01		direct	-2409 Mar 09 j 23:00	23° \mathbb{I} 12'00	
opposition	-2415 Jul 21 j 13:29	7° \mathbb{B} 27'26	-1°17'04		-2409 May 20 j 13:26	0° \mathbb{B}	
min. Earth dist.	-2415 Jul 21 j 00:44	7° \mathbb{B} 31'40	4.01115 AU	evening set	-2409 Jul 15 j 13:00	11° \mathbb{B} 06'28	
direct	-2415 Sep 18 j 04:20	2° \mathbb{B} 34'14					
evening set	-2414 Jan 20 j 17:14	21° \mathbb{B} 54'21		conjunction	-2409 Jul 28 j 17:08	13° \mathbb{B} 58'42	0°58'16
				minimum elong	-2409 Jul 28 j 17:05	13° \mathbb{B} 58'41	0°58'19
conjunction	-2414 Feb 02 j 22:08	25° \mathbb{B} 03'46	-1°06'36	max. Earth dist.	-2409 Jul 27 j 18:31	13° \mathbb{B} 46'21	6.39753 AU
minimum elong	-2414 Feb 02 j 22:05	25° \mathbb{B} 03'45	1°06'39	morning rise	-2409 Aug 10 j 18:02	16° \mathbb{B} 49'21	
max. Earth dist.	-2414 Feb 04 j 05:47	25° \mathbb{B} 22'43	5.99680 AU		-2409 Oct 19 j 10:37	0° \mathbb{Q}	
morning rise	-2414 Feb 16 j 06:10	28° \mathbb{B} 14'55		retrograde	-2409 Dec 09 j 01:06	3° \mathbb{Q} 47'45	
	-2414 Feb 23 j 16:05	0° \mathbb{W}			-2408 Jan 29 j 18:26	30° \mathbb{R} \mathbb{B}	
	-2414 May 10 j 08:31	15° \mathbb{W}		opposition	-2408 Feb 07 j 06:49	28° \mathbb{B} 54'32	1°41'43
retrograde	-2414 Jun 28 j 13:13	18° \mathbb{W} 39'41		min. Earth dist.	-2408 Feb 08 j 04:02	28° \mathbb{B} 47'40	4.40791 AU
	-2414 Aug 16 j 23:22	15° \mathbb{R} \mathbb{W}		direct	-2408 Apr 09 j 17:54	23° \mathbb{B} 51'45	
min. Earth dist.	-2414 Aug 26 j 09:25	13° \mathbb{W} 44'48	4.00281 AU		-2408 Jun 16 j 18:04	0° \mathbb{Q}	
opposition	-2414 Aug 27 j 12:21	13° \mathbb{W} 35'42	-1°53'41	evening set	-2408 Aug 15 j 00:42	11° \mathbb{Q} 39'59	
direct	-2414 Oct 24 j 12:12	8° \mathbb{W} 40'50		max. Earth dist.	-2408 Aug 26 j 06:26	14° \mathbb{Q} 07'39	6.40119 AU
	-2414 Dec 27 j 16:31	15° \mathbb{W}					
evening set	-2413 Feb 26 j 16:49	28° \mathbb{W} 03'25		conjunction	-2408 Aug 27 j 20:31	14° \mathbb{Q} 28'35	1°17'09
	-2413 Mar 06 j 22:30	0° \mathbb{H}		minimum elong	-2408 Aug 27 j 20:30	14° \mathbb{Q} 28'34	1°17'11
					-2408 Aug 30 j 05:39	15° \mathbb{Q}	
conjunction	-2413 Mar 12 j 05:01	1° \mathbb{H} 14'47	-1°17'20	morning rise	-2408 Sep 09 j 13:17	17° \mathbb{Q} 15'47	
minimum elong	-2413 Mar 12 j 05:02	1° \mathbb{H} 14'48	1°17'21		-2408 Nov 14 j 18:07	0° \mathbb{M}	
max. Earth dist.	-2413 Mar 14 j 04:05	1° \mathbb{H} 42'36	6.02467 AU	retrograde	-2407 Jan 08 j 04:11	4° \mathbb{M} 18'40	
morning rise	-2413 Mar 25 j 20:16	4° \mathbb{H} 27'33			-2407 Mar 05 j 11:57	30° \mathbb{R} \mathbb{Q}	

Attention, astronomical year style is used: The year -2407 in astronomical counting style is the year 2408 BCE in historical counting style.

opposition	-2407 Mar 09 j 19:28	29° Ω 27'03	1°54'35			-2402 Oct 01 j 16:45	15° \Re	
min. Earth dist.	-2407 Mar 11 j 02:03	29° Ω 17'18	4.38174 AU	direct		-2402 Oct 29 j 09:41	13° \approx 42'04	
direct	-2407 May 11 j 11:12	24° Ω 26'12				-2402 Nov 26 j 04:46	15° \approx	
	-2407 Jul 14 j 13:34	0° \mathbb{P}				-2401 Feb 18 j 13:46	0° \mathbb{H}	
evening set	-2407 Sep 15 j 00:12	12° \mathbb{P} 20'13		evening set		-2401 Mar 03 j 17:57	3° \mathbb{H} 03'40	
max. Earth dist.	-2407 Sep 25 j 17:43	14° \mathbb{P} 43'37	6.34622 AU					
				conjunction		-2401 Mar 17 j 07:12	6° \mathbb{H} 15'07	-1°16'27
conjunction	-2407 Sep 27 j 14:42	15° \mathbb{P} 08'45	1°14'31	minimum elong		-2401 Mar 17 j 07:13	6° \mathbb{H} 15'08	1°16'29
minimum elong	-2407 Sep 27 j 14:44	15° \mathbb{P} 08'46	1°14'32	max. Earth dist.		-2401 Mar 19 j 07:02	6° \mathbb{H} 43'19	6.03281 AU
morning rise	-2407 Oct 10 j 03:28	17° \mathbb{P} 56'32		morning rise		-2401 Mar 30 j 23:05	9° \mathbb{H} 27'48	
	-2407 Dec 09 j 11:46	0° $\underline{\Omega}$		retrograde		-2401 Aug 08 j 13:18	29° \mathbb{H} 23'51	
retrograde	-2406 Feb 09 j 13:31	5° $\underline{\Omega}$ 28'30		min. Earth dist.		-2401 Oct 05 j 20:43	24° \mathbb{H} 28'52	4.07502 AU
opposition	-2406 Apr 11 j 12:00	0° $\underline{\Omega}$ 36'38	1°35'09	opposition		-2401 Oct 07 j 02:32	24° \mathbb{H} 18'41	-1°42'13
min. Earth dist.	-2406 Apr 12 j 19:11	0° $\underline{\Omega}$ 26'43	4.30120 AU	direct		-2401 Dec 04 j 10:46	19° \mathbb{H} 20'17	
	-2406 Apr 16 j 07:20	30° \Re \mathbb{P}				-2400 Mar 01 j 08:18	0° \mathbb{Y}	
direct	-2406 Jun 12 j 15:17	25° \mathbb{P} 38'21		evening set		-2400 Apr 08 j 16:18	8° \mathbb{Y} 24'08	
	-2406 Aug 07 j 01:44	0° $\underline{\Omega}$						
evening set	-2406 Oct 16 j 06:23	13° $\underline{\Omega}$ 49'10		conjunction		-2400 Apr 22 j 10:28	11° \mathbb{Y} 33'35	-0°54'44
max. Earth dist.	-2406 Oct 27 j 07:05	16° $\underline{\Omega}$ 20'07	6.24674 AU	minimum elong		-2400 Apr 22 j 10:32	11° \mathbb{Y} 33'37	0°54'43
				max. Earth dist.		-2400 Apr 24 j 06:39	11° \mathbb{Y} 58'58	6.12648 AU
conjunction	-2406 Oct 28 j 20:12	16° $\underline{\Omega}$ 41'22	0°50'03	morning rise		-2400 May 06 j 05:36	14° \mathbb{Y} 43'19	
minimum elong	-2406 Oct 28 j 20:15	16° $\underline{\Omega}$ 41'24	0°50'01			-2400 Jul 23 j 05:33	0° \mathbb{B}	
morning rise	-2406 Nov 10 j 09:27	19° $\underline{\Omega}$ 33'34		retrograde		-2400 Sep 10 j 12:57	3° \mathbb{B} 42'44	
	-2406 Dec 29 j 18:06	0° \mathbb{M}				-2400 Oct 30 j 00:00	30° \Re \mathbb{Y}	
retrograde	-2405 Mar 15 j 18:11	7° \mathbb{M} 54'45		min. Earth dist.		-2400 Nov 08 j 01:13	28° \mathbb{Y} 47'09	4.18450 AU
opposition	-2405 May 15 j 19:11	3° \mathbb{M} 00'57	0°45'43	opposition		-2400 Nov 09 j 00:02	28° \mathbb{Y} 39'24	-0°53'24
min. Earth dist.	-2405 May 16 j 16:57	2° \mathbb{M} 53'59	4.18837 AU	direct		-2399 Jan 07 j 07:41	23° \mathbb{Y} 38'05	
	-2405 Jun 10 j 04:45	30° \Re $\underline{\Omega}$				-2399 Mar 15 j 02:44	0° \mathbb{B}	
direct	-2405 Jul 15 j 20:05	28° $\underline{\Omega}$ 05'31		evening set		-2399 May 14 j 10:25	12° \mathbb{B} 14'26	
	-2405 Aug 20 j 02:13	0° \mathbb{M}				-2399 May 26 j 18:44	15° \mathbb{B}	
	-2405 Nov 10 j 08:42	15° \mathbb{M}						
evening set	-2405 Nov 17 j 15:24	16° \mathbb{M} 41'04		conjunction		-2399 May 28 j 04:05	15° \mathbb{B} 18'41	-0°14'54
				minimum elong		-2399 May 28 j 04:06	15° \mathbb{B} 18'42	0°14'51
conjunction	-2405 Nov 30 j 08:09	19° \mathbb{M} 39'25	0°09'01	behind sun begin		-2399 May 28 j 01:16	15° \mathbb{B} 17'07	
minimum elong	-2405 Nov 30 j 08:09	19° \mathbb{M} 39'26	0°08'59	behind sun end		-2399 May 28 j 06:57	15° \mathbb{B} 20'17	
behind sun begin	-2405 Nov 30 j 01:16	19° \mathbb{M} 35'24		max. Earth dist.		-2399 May 29 j 03:46	15° \mathbb{B} 31'56	6.24355 AU
behind sun end	-2405 Nov 30 j 15:02	19° \mathbb{M} 43'27		morning rise		-2399 Jun 10 j 20:45	18° \mathbb{B} 22'11	
max. Earth dist.	-2405 Nov 29 j 12:04	19° \mathbb{M} 27'39	6.13078 AU			-2399 Aug 07 j 04:51	0° \mathbb{I}	
morning rise	-2405 Dec 13 j 02:19	22° \mathbb{M} 38'42		asc. node		-2399 Oct 09 j 14:39	6° \mathbb{I} 20'56	
	-2404 Jan 14 j 20:03	0° \mathbb{J}		retrograde		-2399 Oct 12 j 18:03	6° \mathbb{I} 21'56	
desc. node	-2404 Feb 15 j 15:45	6° \mathbb{J} 06'17		opposition		-2399 Dec 11 j 07:14	1° \mathbb{I} 22'09	0°10'08
retrograde	-2404 Apr 19 j 20:14	11° \mathbb{J} 58'36		min. Earth dist.		-2399 Dec 10 j 23:54	1° \mathbb{I} 24'36	4.29783 AU
opposition	-2404 Jun 19 j 17:01	7° \mathbb{J} 01'26	-0°21'47			-2399 Dec 21 j 15:56	30° \Re \mathbb{B}	
min. Earth dist.	-2404 Jun 19 j 21:25	7° \mathbb{J} 00'00	4.07777 AU					
direct	-2404 Aug 18 j 09:22	2° \mathbb{J} 07'56						
evening set	-2404 Dec 20 j 18:15	21° \mathbb{J} 10'11						
conjunction	-2403 Jan 02 j 16:54	24° \mathbb{J} 15'10	-0°36'37					
minimum elong	-2403 Jan 02 j 16:51	24° \mathbb{J} 15'08	0°36'41					
max. Earth dist.	-2403 Jan 03 j 00:33	24° \mathbb{J} 19'44	6.03587 AU					
morning rise	-2403 Jan 15 j 18:03	27° \mathbb{J} 21'41						
	-2403 Jan 26 j 23:40	0° \mathbb{B}						
retrograde	-2403 May 27 j 06:01	17° \mathbb{B} 30'06						
opposition	-2403 Jul 26 j 15:09	12° \mathbb{B} 29'04	-1°24'14					
min. Earth dist.	-2403 Jul 26 j 00:51	12° \mathbb{B} 33'48	4.00860 AU					
direct	-2403 Sep 23 j 03:17	7° \mathbb{B} 35'46						
evening set	-2402 Jan 25 j 16:54	26° \mathbb{B} 56'30						
conjunction	-2402 Feb 07 j 22:35	0° \approx 06'15	-1°09'45					
minimum elong	-2402 Feb 07 j 22:33	0° \approx 06'13	1°09'48					
	-2402 Feb 07 j 12:09	0° \approx						
max. Earth dist.	-2402 Feb 09 j 07:12	0° \approx 25'45	5.99786 AU					
morning rise	-2402 Feb 21 j 07:47	3° \approx 17'47						
	-2402 Apr 15 j 11:59	15° \approx						
retrograde	-2402 Jul 03 j 12:05	23° \approx 41'34						
min. Earth dist.	-2402 Aug 31 j 06:39	18° \approx 46'55	4.00763 AU					
opposition	-2402 Sep 01 j 11:05	18° \approx 37'17	-1°55'20					