

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

	-2900 Jan 26 j 02:08	0°♄		max. Earth dist.	-2894 Mar 30 j 20:04	15°♄13'44	30.83193 AU
evening set	-2900 Feb 28 j 14:24	1°♄06'02		morning rise	-2894 Apr 15 j 08:25	15°♄48'15	
				retrograde	-2894 Jul 15 j 07:02	17°♄46'21	
conjunction	-2900 Mar 15 j 14:30	1°♄41'44	-2°02'32	opposition	-2894 Oct 02 j 08:13	16°♄21'11	-2°16'42
minimum elong	-2900 Mar 15 j 14:30	1°♄41'44	2°02'35	min. Earth dist.	-2894 Oct 01 j 18:30	16°♄22'09	28.83382 AU
max. Earth dist.	-2900 Mar 16 j 11:07	1°♄43'39	30.83561 AU	direct	-2894 Dec 18 j 18:00	14°♄57'01	
morning rise	-2900 Mar 31 j 17:36	2°♄17'42		evening set	-2893 Mar 16 j 15:15	16°♄51'14	
retrograde	-2900 Jul 01 j 04:12	4°♄16'25					
opposition	-2900 Sep 18 j 13:34	2°♄51'09	-2°11'47	conjunction	-2893 Apr 01 j 17:56	17°♄27'03	-2°07'55
min. Earth dist.	-2900 Sep 17 j 18:54	2°♄52'28	28.83750 AU	minimum elong	-2893 Apr 01 j 17:56	17°♄27'03	2°07'56
direct	-2900 Dec 04 j 20:59	1°♄27'23		max. Earth dist.	-2893 Apr 02 j 08:38	17°♄28'25	30.83290 AU
evening set	-2899 Mar 02 j 04:16	3°♄21'14		morning rise	-2893 Apr 17 j 22:56	18°♄03'05	
				retrograde	-2893 Jul 17 j 20:37	20°♄01'06	
conjunction	-2899 Mar 18 j 04:42	3°♄56'56	-2°03'53	opposition	-2893 Oct 04 j 19:05	18°♄35'57	-2°16'48
minimum elong	-2899 Mar 18 j 04:42	3°♄56'56	2°03'54	min. Earth dist.	-2893 Oct 04 j 05:26	18°♄36'55	28.83552 AU
max. Earth dist.	-2899 Mar 19 j 00:14	3°♄58'46	30.83599 AU	direct	-2893 Dec 21 j 05:50	17°♄11'44	
morning rise	-2899 Apr 03 j 08:07	4°♄32'56		evening set	-2892 Mar 18 j 04:59	19°♄06'02	
retrograde	-2899 Jul 03 j 17:28	6°♄31'34					
min. Earth dist.	-2899 Sep 20 j 08:05	5°♄07'31	28.83749 AU	conjunction	-2892 Apr 03 j 08:08	19°♄41'53	-2°07'54
opposition	-2899 Sep 21 j 00:53	5°♄06'20	-2°13'07	minimum elong	-2892 Apr 03 j 08:08	19°♄41'53	2°07'56
direct	-2899 Dec 07 j 08:34	3°♄42'31		max. Earth dist.	-2892 Apr 03 j 23:07	19°♄43'17	30.83522 AU
evening set	-2898 Mar 04 j 18:04	5°♄36'25		morning rise	-2892 Apr 19 j 13:16	20°♄17'55	
				retrograde	-2892 Jul 19 j 08:09	22°♄15'50	
conjunction	-2898 Mar 20 j 19:01	6°♄12'09	-2°05'02	opposition	-2892 Oct 06 j 06:00	20°♄50'45	-2°16'41
minimum elong	-2898 Mar 20 j 19:01	6°♄12'09	2°05'04	min. Earth dist.	-2892 Oct 05 j 17:36	20°♄51'38	28.83850 AU
max. Earth dist.	-2898 Mar 21 j 13:59	6°♄13'56	30.83560 AU	direct	-2892 Dec 22 j 17:16	19°♄26'30	
morning rise	-2898 Apr 05 j 22:38	6°♄48'09		evening set	-2891 Mar 20 j 18:58	21°♄20'54	
retrograde	-2898 Jul 06 j 07:27	8°♄46'42					
opposition	-2898 Sep 23 j 12:06	7°♄21'28	-2°14'15	conjunction	-2891 Apr 05 j 22:28	21°♄56'46	-2°07'42
min. Earth dist.	-2898 Sep 22 j 19:10	7°♄22'40	28.83664 AU	minimum elong	-2891 Apr 05 j 22:28	21°♄56'46	2°07'42
direct	-2898 Dec 09 j 21:23	5°♄57'35		max. Earth dist.	-2891 Apr 06 j 12:19	21°♄58'03	30.83898 AU
evening set	-2897 Mar 07 j 07:52	7°♄51'33		morning rise	-2891 Apr 22 j 03:54	22°♄32'49	
				retrograde	-2891 Jul 21 j 22:41	24°♄30'38	
conjunction	-2897 Mar 23 j 09:02	8°♄27'18	-2°05'59	opposition	-2891 Oct 08 j 16:41	23°♄05'37	-2°16'22
minimum elong	-2897 Mar 23 j 09:02	8°♄27'18	2°06'01	min. Earth dist.	-2891 Oct 08 j 04:00	23°♄06'32	28.84280 AU
max. Earth dist.	-2897 Mar 24 j 02:27	8°♄28'56	30.83443 AU	direct	-2891 Dec 25 j 05:44	21°♄41'22	
morning rise	-2897 Apr 08 j 13:01	9°♄03'19		evening set	-2890 Mar 23 j 09:03	23°♄35'52	
retrograde	-2897 Jul 08 j 19:10	11°♄01'46					
opposition	-2897 Sep 25 j 23:22	9°♄36'32	-2°15'10	conjunction	-2890 Apr 08 j 12:52	24°♄11'45	-2°07'18
min. Earth dist.	-2897 Sep 25 j 08:03	9°♄37'38	28.83538 AU	minimum elong	-2890 Apr 08 j 12:52	24°♄11'45	2°07'19
direct	-2897 Dec 12 j 08:02	8°♄12'35		max. Earth dist.	-2890 Apr 09 j 02:03	24°♄12'59	30.84373 AU
evening set	-2896 Mar 08 j 21:36	10°♄06'36		morning rise	-2890 Apr 24 j 18:29	24°♄47'48	
				retrograde	-2890 Jul 24 j 11:51	26°♄45'32	
conjunction	-2896 Mar 24 j 23:20	10°♄42'22	-2°06'46	opposition	-2890 Oct 11 j 03:35	25°♄20'37	-2°15'50
minimum elong	-2896 Mar 24 j 23:20	10°♄42'22	2°06'48	min. Earth dist.	-2890 Oct 10 j 16:34	25°♄21'23	28.84796 AU
max. Earth dist.	-2896 Mar 25 j 17:00	10°♄44'01	30.83316 AU	direct	-2890 Dec 27 j 17:37	23°♄56'21	
morning rise	-2896 Apr 10 j 03:27	11°♄18'23		evening set	-2889 Mar 25 j 22:58	25°♄50'57	
retrograde	-2896 Jul 10 j 07:10	13°♄16'43					
opposition	-2896 Sep 27 j 10:19	11°♄51'30	-2°15'53	conjunction	-2889 Apr 11 j 03:11	26°♄26'51	-2°06'42
min. Earth dist.	-2896 Sep 26 j 19:09	11°♄52'35	28.83414 AU	minimum elong	-2889 Apr 11 j 03:11	26°♄26'51	2°06'43
direct	-2896 Dec 13 j 20:15	10°♄27'28		max. Earth dist.	-2889 Apr 11 j 15:49	26°♄28'02	30.84923 AU
evening set	-2895 Mar 11 j 11:33	12°♄21'33		morning rise	-2889 Apr 27 j 08:58	27°♄02'55	
				retrograde	-2889 Jul 27 j 01:43	29°♄00'34	
conjunction	-2895 Mar 27 j 13:30	12°♄57'20	-2°07'20	opposition	-2889 Oct 13 j 14:19	27°♄35'44	-2°15'05
minimum elong	-2895 Mar 27 j 13:30	12°♄57'20	2°07'22	min. Earth dist.	-2889 Oct 13 j 03:12	27°♄36'31	28.85343 AU
max. Earth dist.	-2895 Mar 28 j 05:19	12°♄58'49	30.83217 AU	direct	-2889 Dec 30 j 06:52	26°♄11'28	
morning rise	-2895 Apr 12 j 18:04	13°♄33'21		evening set	-2888 Mar 27 j 13:19	28°♄06'10	
retrograde	-2895 Jul 12 j 20:09	15°♄31'35					
opposition	-2895 Sep 29 j 21:22	14°♄06'22	-2°16'24	conjunction	-2888 Apr 12 j 17:44	28°♄42'05	-2°05'55
min. Earth dist.	-2895 Sep 29 j 07:04	14°♄07'23	28.83356 AU	minimum elong	-2888 Apr 12 j 17:45	28°♄42'05	2°05'55
direct	-2895 Dec 16 j 06:06	12°♄42'16		max. Earth dist.	-2888 Apr 13 j 04:42	28°♄43'07	30.85459 AU
evening set	-2894 Mar 14 j 01:21	14°♄36'25		morning rise	-2888 Apr 28 j 23:47	29°♄18'10	
					-2888 May 19 j 03:51	0°♄	
conjunction	-2894 Mar 30 j 03:48	15°♄12'13	-2°07'43	retrograde	-2888 Jul 28 j 14:13	1°♄15'42	
minimum elong	-2894 Mar 30 j 03:48	15°♄12'13	2°07'45		-2888 Oct 09 j 17:32	30°♄	

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Attention, astronomical year style is used: The year -2888 in astronomical counting style is the year 2889 BCE in historical counting style.

opposition	-2888 Oct 15 j 01:08	29° \mathbf{K} 50'57	-2°14'08	minimum elong	-2881 Apr 29 j 23:44	14° \mathbf{V} 26'42	1°55'08
min. Earth dist.	-2888 Oct 14 j 15:56	29° \mathbf{K} 51'36	28.85862 AU	max. Earth dist.	-2881 Apr 30 j 03:27	14° \mathbf{V} 27'03	30.87586 AU
direct	-2888 Dec 31 j 17:29	28° \mathbf{K} 26'40		morning rise	-2881 May 16 j 06:44	15° \mathbf{V} 02'47	
	-2887 Mar 20 j 02:09	0° \mathbf{V}		retrograde	-2881 Aug 14 j 00:57	16° \mathbf{V} 59'11	
evening set	-2887 Mar 30 j 03:38	0° \mathbf{V} 21'26		opposition	-2881 Oct 31 j 03:26	15° \mathbf{V} 34'38	-2°01'57
				min. Earth dist.	-2881 Oct 31 j 00:51	15° \mathbf{V} 34'49	28.87915 AU
conjunction	-2887 Apr 15 j 08:33	0° \mathbf{V} 57'23	-2°04'56	direct	-2880 Jan 17 j 05:31	14° \mathbf{V} 09'50	
minimum elong	-2887 Apr 15 j 08:33	0° \mathbf{V} 57'23	2°04'55	evening set	-2880 Apr 15 j 07:16	16° \mathbf{V} 04'56	
max. Earth dist.	-2887 Apr 15 j 19:09	0° \mathbf{V} 58'23	30.85940 AU				
morning rise	-2887 May 01 j 14:38	1° \mathbf{V} 33'28		conjunction	-2880 May 01 j 14:08	16° \mathbf{V} 40'58	-1°52'55
retrograde	-2887 Jul 31 j 03:30	3° \mathbf{V} 30'52		minimum elong	-2880 May 01 j 14:09	16° \mathbf{V} 40'58	1°52'53
opposition	-2887 Oct 17 j 11:55	2° \mathbf{V} 06'11	-2°12'58	max. Earth dist.	-2880 May 01 j 17:11	16° \mathbf{V} 41'15	30.88038 AU
min. Earth dist.	-2887 Oct 17 j 03:16	2° \mathbf{V} 06'48	28.86283 AU	morning rise	-2880 May 17 j 21:14	17° \mathbf{V} 17'02	
direct	-2886 Jan 03 j 06:17	0° \mathbf{V} 41'52		retrograde	-2880 Aug 15 j 13:47	19° \mathbf{V} 13'16	
evening set	-2886 Apr 01 j 18:06	2° \mathbf{V} 36'43		opposition	-2880 Nov 01 j 13:40	17° \mathbf{V} 48'47	-1°59'27
				min. Earth dist.	-2880 Nov 01 j 10:45	17° \mathbf{V} 48'59	28.88424 AU
conjunction	-2886 Apr 17 j 23:07	3° \mathbf{V} 12'41	-2°03'45	direct	-2879 Jan 18 j 19:07	16° \mathbf{V} 23'56	
minimum elong	-2886 Apr 17 j 23:08	3° \mathbf{V} 12'41	2°03'45	evening set	-2879 Apr 17 j 21:31	18° \mathbf{V} 19'06	
max. Earth dist.	-2886 Apr 18 j 07:21	3° \mathbf{V} 13'27	30.86313 AU				
morning rise	-2886 May 04 j 05:31	3° \mathbf{V} 48'46		conjunction	-2879 May 04 j 04:31	18° \mathbf{V} 55'08	-1°50'29
retrograde	-2886 Aug 02 j 15:51	5° \mathbf{V} 46'01		minimum elong	-2879 May 04 j 04:31	18° \mathbf{V} 55'08	1°50'28
opposition	-2886 Oct 19 j 22:42	4° \mathbf{V} 21'23	-2°11'37	max. Earth dist.	-2879 May 04 j 06:17	18° \mathbf{V} 55'18	30.88620 AU
min. Earth dist.	-2886 Oct 19 j 15:23	4° \mathbf{V} 21'54	28.86610 AU	morning rise	-2879 May 20 j 11:43	19° \mathbf{V} 31'12	
direct	-2885 Jan 05 j 16:39	2° \mathbf{V} 56'59		retrograde	-2879 Aug 18 j 02:00	21° \mathbf{V} 27'17	
evening set	-2885 Apr 04 j 08:20	4° \mathbf{V} 51'53		opposition	-2879 Nov 04 j 00:09	20° \mathbf{V} 02'52	-1°56'46
				min. Earth dist.	-2879 Nov 03 j 22:41	20° \mathbf{V} 02'59	28.89080 AU
conjunction	-2885 Apr 20 j 13:51	5° \mathbf{V} 27'52	-2°02'24	direct	-2878 Jan 21 j 06:02	18° \mathbf{V} 38'00	
minimum elong	-2885 Apr 20 j 13:52	5° \mathbf{V} 27'52	2°02'23	evening set	-2878 Apr 20 j 11:30	20° \mathbf{V} 33'14	
max. Earth dist.	-2885 Apr 20 j 21:55	5° \mathbf{V} 28'37	30.86597 AU				
morning rise	-2885 May 06 j 20:15	6° \mathbf{V} 03'57		conjunction	-2878 May 06 j 18:50	21° \mathbf{V} 09'17	-1°47'54
retrograde	-2885 Aug 05 j 02:03	8° \mathbf{V} 01'03		minimum elong	-2878 May 06 j 18:51	21° \mathbf{V} 09'17	1°47'52
opposition	-2885 Oct 22 j 09:22	6° \mathbf{V} 36'26	-2°10'04	max. Earth dist.	-2878 May 06 j 20:43	21° \mathbf{V} 09'28	30.89349 AU
min. Earth dist.	-2885 Oct 22 j 03:08	6° \mathbf{V} 36'52	28.86849 AU	morning rise	-2878 May 23 j 01:58	21° \mathbf{V} 45'21	
direct	-2884 Jan 08 j 05:14	5° \mathbf{V} 11'58		retrograde	-2878 Aug 20 j 14:49	23° \mathbf{V} 41'18	
evening set	-2884 Apr 05 j 22:38	7° \mathbf{V} 06'54		opposition	-2878 Nov 06 j 10:27	22° \mathbf{V} 17'00	-1°53'55
				min. Earth dist.	-2878 Nov 06 j 09:08	22° \mathbf{V} 17'05	28.89853 AU
conjunction	-2884 Apr 22 j 04:21	7° \mathbf{V} 42'53	-2°00'51	direct	-2877 Jan 23 j 19:07	20° \mathbf{V} 52'08	
minimum elong	-2884 Apr 22 j 04:21	7° \mathbf{V} 42'53	2°00'51	evening set	-2877 Apr 23 j 01:43	22° \mathbf{V} 47'27	
max. Earth dist.	-2884 Apr 22 j 10:11	7° \mathbf{V} 43'25	30.86824 AU				
morning rise	-2884 May 08 j 11:05	8° \mathbf{V} 18'58		conjunction	-2877 May 09 j 09:04	23° \mathbf{V} 23'31	-1°45'09
retrograde	-2884 Aug 06 j 14:24	10° \mathbf{V} 15'53		minimum elong	-2877 May 09 j 09:05	23° \mathbf{V} 23'31	1°45'07
opposition	-2884 Oct 23 j 19:58	8° \mathbf{V} 51'17	-2°08'19	max. Earth dist.	-2877 May 09 j 09:06	23° \mathbf{V} 23'31	30.90181 AU
min. Earth dist.	-2884 Oct 23 j 14:19	8° \mathbf{V} 51'42	28.87057 AU	morning rise	-2877 May 25 j 16:24	23° \mathbf{V} 59'35	
direct	-2883 Jan 09 j 16:49	7° \mathbf{V} 26'44		retrograde	-2877 Aug 23 j 02:58	25° \mathbf{V} 55'24	
evening set	-2883 Apr 08 j 12:55	9° \mathbf{V} 21'42		opposition	-2877 Nov 08 j 20:46	24° \mathbf{V} 31'12	-1°50'53
				min. Earth dist.	-2877 Nov 08 j 20:31	24° \mathbf{V} 31'13	28.90722 AU
conjunction	-2883 Apr 24 j 19:01	9° \mathbf{V} 57'42	-1°59'08	direct	-2876 Jan 26 j 05:26	23° \mathbf{V} 06'20	
minimum elong	-2883 Apr 24 j 19:02	9° \mathbf{V} 57'42	1°59'07	evening set	-2876 Apr 24 j 15:48	25° \mathbf{V} 01'45	
max. Earth dist.	-2883 Apr 25 j 00:43	9° \mathbf{V} 58'14	30.87025 AU				
morning rise	-2883 May 11 j 01:44	10° \mathbf{V} 33'47		conjunction	-2876 May 10 j 23:32	25° \mathbf{V} 37'50	-1°42'14
retrograde	-2883 Aug 09 j 00:57	12° \mathbf{V} 30'31		minimum elong	-2876 May 10 j 23:33	25° \mathbf{V} 37'50	1°42'11
opposition	-2883 Oct 26 j 06:28	11° \mathbf{V} 05'56	-2°06'23	max. Earth dist.	-2876 May 10 j 23:37	25° \mathbf{V} 37'50	30.91065 AU
min. Earth dist.	-2883 Oct 26 j 02:28	11° \mathbf{V} 06'14	28.87263 AU	morning rise	-2876 May 27 j 06:44	26° \mathbf{V} 13'54	
direct	-2882 Jan 12 j 04:07	9° \mathbf{V} 41'17		retrograde	-2876 Aug 24 j 13:32	28° \mathbf{V} 09'36	
evening set	-2882 Apr 11 j 03:10	11° \mathbf{V} 36'18		opposition	-2876 Nov 10 j 07:10	26° \mathbf{V} 45'31	-1°47'41
				min. Earth dist.	-2876 Nov 10 j 08:01	26° \mathbf{V} 45'27	28.91589 AU
conjunction	-2882 Apr 27 j 09:29	12° \mathbf{V} 12'18	-1°57'14	direct	-2875 Jan 27 j 17:45	25° \mathbf{V} 20'39	
minimum elong	-2882 Apr 27 j 09:29	12° \mathbf{V} 12'18	1°57'13	evening set	-2875 Apr 27 j 06:12	27° \mathbf{V} 16'09	
max. Earth dist.	-2882 Apr 27 j 13:42	12° \mathbf{V} 12'41	30.87269 AU				
morning rise	-2882 May 13 j 16:25	12° \mathbf{V} 48'23		conjunction	-2875 May 13 j 13:54	27° \mathbf{V} 52'14	-1°39'10
retrograde	-2882 Aug 11 j 13:38	14° \mathbf{V} 44'57		minimum elong	-2875 May 13 j 13:54	27° \mathbf{V} 52'14	1°39'07
opposition	-2882 Oct 28 j 16:54	13° \mathbf{V} 20'23	-2°04'15	max. Earth dist.	-2875 May 13 j 11:36	27° \mathbf{V} 52'02	30.91923 AU
min. Earth dist.	-2882 Oct 28 j 12:43	13° \mathbf{V} 20'41	28.87539 AU	morning rise	-2875 May 29 j 21:14	28° \mathbf{V} 28'18	
direct	-2881 Jan 14 j 17:14	11° \mathbf{V} 55'38			-2875 Jul 20 j 04:48	0° \mathbf{B}	
evening set	-2881 Apr 13 j 17:10	13° \mathbf{V} 50'42		retrograde	-2875 Aug 27 j 01:57	0° \mathbf{B} 23'52	
					-2875 Oct 04 j 09:01	30° \mathbf{R} \mathbf{V}	
conjunction	-2881 Apr 29 j 23:44	14° \mathbf{V} 26'42	-1°55'09	opposition	-2875 Nov 12 j 17:28	28° \mathbf{V} 59'54	-1°44'19

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Attention, astronomical year style is used: The year -2875 in astronomical counting style is the year 2876 BCE in historical counting style.

min. Earth dist.	-2875 Nov 12 j 18:59	28° Υ 59'47	28.92415 AU	conjunction	-2868 May 29 j 16:58	13° R 30'53	-1°13'54
direct	-2874 Jan 30 j 04:37	27° Υ 35'01		minimum elong	-2868 May 29 j 16:58	13° R 30'53	1°13'50
evening set	-2874 Apr 29 j 20:27	29° Υ 30'36		max. Earth dist.	-2868 May 29 j 07:21	13° R 30'00	30.96413 AU
	-2874 May 13 j 04:23	0° R		morning rise	-2868 Jun 14 j 23:43	14° R 06'51	
					-2868 Jul 11 j 08:02	15° R	
conjunction	-2874 May 16 j 04:24	0° R 06'42	-1°35'57	retrograde	-2868 Sep 11 j 09:44	16° R 01'15	
minimum elong	-2874 May 16 j 04:25	0° R 06'42	1°35'54		-2868 Nov 14 j 09:56	15° R 8	
max. Earth dist.	-2874 May 16 j 01:49	0° R 06'27	30.92704 AU	opposition	-2868 Nov 27 j 17:30	14° R 37'38	-1°16'50
morning rise	-2874 Jun 01 j 11:32	0° R 42'45		min. Earth dist.	-2868 Nov 28 j 01:33	14° R 37'03	28.96857 AU
retrograde	-2874 Aug 29 j 12:20	2° R 38'11		direct	-2867 Feb 14 j 20:10	13° R 12'23	
opposition	-2874 Nov 15 j 04:01	1° R 14'17	-1°40'48		-2867 May 12 j 02:49	15° R	
min. Earth dist.	-2874 Nov 15 j 07:21	1° R 14'03	28.93146 AU	evening set	-2867 May 15 j 22:31	15° R 08'13	
	-2873 Jan 07 j 08:39	30° R 9					
direct	-2873 Feb 01 j 15:14	29° Υ 49'23		conjunction	-2867 Jun 01 j 06:50	15° R 44'18	-1°09'49
	-2873 Feb 26 j 22:41	0° R		minimum elong	-2867 Jun 01 j 06:50	15° R 44'18	1°09'45
evening set	-2873 May 02 j 10:35	1° R 45'01		max. Earth dist.	-2867 May 31 j 21:37	15° R 43'26	30.97222 AU
				morning rise	-2867 Jun 17 j 13:14	16° R 20'14	
conjunction	-2873 May 18 j 18:34	2° R 21'07	-1°32'35	retrograde	-2867 Sep 13 j 19:56	18° R 14'28	
minimum elong	-2873 May 18 j 18:35	2° R 21'07	1°32'32	opposition	-2867 Nov 30 j 03:42	16° R 50'55	-1°12'25
max. Earth dist.	-2873 May 18 j 14:03	2° R 20'41	30.93403 AU	min. Earth dist.	-2867 Nov 30 j 12:24	16° R 50'18	28.97725 AU
morning rise	-2873 Jun 04 j 01:49	2° R 57'10		direct	-2866 Feb 17 j 08:57	15° R 25'40	
retrograde	-2873 Sep 01 j 00:10	4° R 52'26		evening set	-2866 May 18 j 12:23	17° R 21'32	
opposition	-2873 Nov 17 j 14:21	3° R 28'36	-1°37'08				
min. Earth dist.	-2873 Nov 17 j 17:51	3° R 28'21	28.93792 AU	conjunction	-2866 Jun 03 j 20:27	17° R 57'36	-1°05'38
direct	-2872 Feb 04 j 04:29	2° R 03'39		minimum elong	-2866 Jun 03 j 20:28	17° R 57'36	1°05'34
evening set	-2872 May 04 j 00:48	3° R 59'20		max. Earth dist.	-2866 Jun 03 j 09:28	17° R 56'35	30.98175 AU
				morning rise	-2866 Jun 20 j 02:49	18° R 33'31	
conjunction	-2872 May 20 j 08:56	4° R 35'26	-1°29'06	retrograde	-2866 Sep 16 j 08:07	20° R 27'36	
minimum elong	-2872 May 20 j 08:57	4° R 35'26	1°29'03	opposition	-2866 Dec 02 j 13:52	19° R 04'09	-1°07'53
max. Earth dist.	-2872 May 20 j 03:34	4° R 34'56	30.94010 AU	min. Earth dist.	-2866 Dec 02 j 22:34	19° R 03'32	28.98746 AU
morning rise	-2872 Jun 05 j 16:03	5° R 11'28		direct	-2865 Feb 19 j 19:51	17° R 38'53	
retrograde	-2872 Sep 02 j 10:38	7° R 06'35		evening set	-2865 May 21 j 01:55	19° R 34'48	
opposition	-2872 Nov 19 j 00:40	5° R 42'47	-1°33'20				
min. Earth dist.	-2872 Nov 19 j 06:11	5° R 42'24	28.94367 AU	conjunction	-2865 Jun 06 j 10:06	20° R 10'52	-1°01'20
direct	-2871 Feb 05 j 16:46	4° R 17'47		minimum elong	-2865 Jun 06 j 10:06	20° R 10'52	1°01'17
evening set	-2871 May 06 j 14:59	6° R 13'30		max. Earth dist.	-2865 Jun 05 j 23:31	20° R 09'53	30.99255 AU
				morning rise	-2865 Jun 22 j 16:06	20° R 46'46	
conjunction	-2871 May 22 j 23:13	6° R 49'36	-1°25'28	retrograde	-2865 Sep 18 j 17:36	22° R 40'44	
minimum elong	-2871 May 22 j 23:13	6° R 49'36	1°25'26	opposition	-2865 Dec 05 j 00:10	21° R 17'22	-1°03'15
max. Earth dist.	-2871 May 22 j 16:38	6° R 48'59	30.94577 AU	min. Earth dist.	-2865 Dec 05 j 10:21	21° R 16'39	28.99861 AU
morning rise	-2871 Jun 08 j 06:16	7° R 25'37		direct	-2864 Feb 22 j 06:36	19° R 52'07	
retrograde	-2871 Sep 04 j 22:44	9° R 20'33		evening set	-2864 May 22 j 15:47	21° R 48'06	
opposition	-2871 Nov 21 j 10:55	7° R 56'48	-1°29'24				
min. Earth dist.	-2871 Nov 21 j 16:24	7° R 56'25	28.94911 AU	conjunction	-2864 Jun 07 j 23:44	22° R 24'09	-0°56'58
direct	-2870 Feb 08 j 06:33	6° R 31'43		minimum elong	-2864 Jun 07 j 23:45	22° R 24'09	0°56'53
evening set	-2870 May 09 j 04:59	8° R 27'29		max. Earth dist.	-2864 Jun 07 j 11:34	22° R 23'02	31.00412 AU
				morning rise	-2864 Jun 24 j 05:39	23° R 00'03	
conjunction	-2870 May 25 j 13:10	9° R 03'34	-1°21'44	retrograde	-2864 Sep 20 j 04:39	24° R 53'52	
minimum elong	-2870 May 25 j 13:10	9° R 03'34	1°21'40	opposition	-2864 Dec 06 j 10:15	23° R 30'38	-0°58'32
max. Earth dist.	-2870 May 25 j 05:18	9° R 02'50	30.95124 AU	min. Earth dist.	-2864 Dec 06 j 20:21	23° R 29'55	29.01023 AU
morning rise	-2870 Jun 10 j 20:07	9° R 39'34		direct	-2863 Feb 23 j 18:58	22° R 05'24	
retrograde	-2870 Sep 07 j 10:20	11° R 34'19		evening set	-2863 May 25 j 05:38	24° R 01'27	
opposition	-2870 Nov 23 j 21:13	10° R 10'36	-1°25'20				
min. Earth dist.	-2870 Nov 24 j 04:16	10° R 10'06	28.95479 AU	conjunction	-2863 Jun 10 j 13:30	24° R 37'30	-0°52'30
direct	-2869 Feb 10 j 18:12	8° R 45'28		minimum elong	-2863 Jun 10 j 13:30	24° R 37'30	0°52'26
evening set	-2869 May 11 j 18:50	10° R 41'15		max. Earth dist.	-2863 Jun 10 j 00:54	24° R 36'20	31.01563 AU
				morning rise	-2863 Jun 26 j 19:01	25° R 13'22	
conjunction	-2869 May 28 j 03:09	11° R 17'20	-1°17'52	retrograde	-2863 Sep 22 j 14:45	27° R 07'05	
minimum elong	-2869 May 28 j 03:10	11° R 17'20	1°17'49	opposition	-2863 Dec 08 j 20:42	25° R 43'56	-0°53'43
max. Earth dist.	-2869 May 27 j 19:13	11° R 16'35	30.95727 AU	min. Earth dist.	-2863 Dec 09 j 08:41	25° R 43'06	29.02156 AU
morning rise	-2869 Jun 13 j 09:55	11° R 53'19		direct	-2862 Feb 26 j 05:57	24° R 18'43	
retrograde	-2869 Sep 09 j 22:34	13° R 47'53		evening set	-2862 May 27 j 19:18	26° R 14'49	
opposition	-2869 Nov 26 j 07:17	12° R 24'12	-1°21'09				
min. Earth dist.	-2869 Nov 26 j 14:34	12° R 23'41	28.96110 AU	conjunction	-2862 Jun 13 j 02:59	26° R 50'51	-0°47'57
direct	-2868 Feb 13 j 08:37	10° R 59'01		minimum elong	-2862 Jun 13 j 02:59	26° R 50'51	0°47'52
evening set	-2868 May 13 j 08:46	12° R 54'49		max. Earth dist.	-2862 Jun 12 j 13:12	26° R 49'34	31.02666 AU
				morning rise	-2862 Jun 29 j 08:15	27° R 26'42	

Attention, astronomical year style is used: The year -2862 in astronomical counting style is the year 2863 BCE in historical counting style.

retrograde	-2862 Sep 25 j 02:24	29° 8 20'18		evening set	-2855 Jun 12 j 17:47	11° II 45'36	
opposition	-2862 Dec 11 j 07:03	27° 8 57'15	-0°48'49				
min. Earth dist.	-2862 Dec 11 j 19:00	27° 8 56'24	29.03205 AU	conjunction	-2855 Jun 28 j 23:30	12° II 21'28	-0°14'42
direct	-2861 Feb 28 j 18:59	26° 8 32'01		minimum elong	-2855 Jun 28 j 23:30	12° II 21'28	0°14'38
evening set	-2861 May 30 j 09:07	28° 8 28'11		behind sun begin	-2855 Jun 28 j 20:55	12° II 21'14	
				behind sun end	-2855 Jun 29 j 02:06	12° II 21'42	
conjunction	-2861 Jun 15 j 16:33	29° 8 04'11	-0°43'21	max. Earth dist.	-2855 Jun 28 j 03:37	12° II 19'38	31.08269 AU
minimum elong	-2861 Jun 15 j 16:34	29° 8 04'11	0°43'17	morning rise	-2855 Jul 15 j 02:11	12° II 57'05	
max. Earth dist.	-2861 Jun 15 j 01:23	29° 8 02'47	31.03662 AU	retrograde	-2855 Oct 10 j 05:23	14° II 49'46	
morning rise	-2861 Jul 01 j 21:31	29° 8 40'00		opposition	-2855 Dec 26 j 07:33	13° II 27'06	-0°13'07
	-2861 Jul 11 j 07:10	0° II		min. Earth dist.	-2855 Dec 27 j 00:25	13° II 25'55	29.08719 AU
retrograde	-2861 Sep 27 j 13:37	1° II 33'29		direct	-2854 Mar 16 j 10:22	12° II 01'40	
opposition	-2861 Dec 13 j 17:24	0° II 10'30	-0°43'52	evening set	-2854 Jun 15 j 06:42	13° II 58'00	
min. Earth dist.	-2861 Dec 14 j 07:07	0° II 09'32	29.04154 AU				
	-2861 Dec 19 j 22:54	30° 8 8		conjunction	-2854 Jul 01 j 12:08	14° II 33'50	-0°09'51
direct	-2860 Mar 02 j 06:41	28° 8 45'15		minimum elong	-2854 Jul 01 j 12:08	14° II 33'50	0°09'45
	-2860 May 11 j 19:16	0° II		behind sun begin	-2854 Jul 01 j 06:47	14° II 33'22	
evening set	-2860 May 31 j 22:48	0° II 41'27		behind sun end	-2854 Jul 01 j 17:29	14° II 34'19	
				max. Earth dist.	-2854 Jun 30 j 16:31	14° II 32'02	31.09155 AU
conjunction	-2860 Jun 17 j 06:08	1° II 17'27	-0°38'40	morning rise	-2854 Jul 17 j 14:13	15° II 09'25	
minimum elong	-2860 Jun 17 j 06:09	1° II 17'27	0°38'36	retrograde	-2854 Oct 12 j 14:39	17° II 02'01	
max. Earth dist.	-2860 Jun 16 j 14:29	1° II 16'00	31.04558 AU	opposition	-2854 Dec 28 j 18:03	15° II 39'25	-0°07'54
morning rise	-2860 Jul 03 j 10:43	1° II 53'14		min. Earth dist.	-2854 Dec 29 j 12:09	15° II 38'09	29.09668 AU
retrograde	-2860 Sep 29 j 01:14	3° II 46'34		direct	-2853 Mar 18 j 20:32	14° II 14'00	
opposition	-2860 Dec 15 j 03:47	2° II 23'39	-0°38'50	evening set	-2853 Jun 17 j 19:44	16° II 10'22	
min. Earth dist.	-2860 Dec 15 j 18:01	2° II 22'39	29.04983 AU	max. Earth dist.	-2853 Jul 03 j 04:34	16° II 44'18	31.10166 AU
direct	-2859 Mar 04 j 21:17	0° II 58'23					
evening set	-2859 Jun 03 j 12:30	2° II 54'37		conjunction	-2853 Jul 04 j 00:45	16° II 46'11	-0°04'59
				minimum elong	-2853 Jul 04 j 00:44	16° II 46'11	0°04'55
conjunction	-2859 Jun 19 j 19:27	3° II 30'35	-0°33'57	behind sun begin	-2853 Jul 03 j 18:21	16° II 45'36	
minimum elong	-2859 Jun 19 j 19:27	3° II 30'35	0°33'53	behind sun end	-2853 Jul 04 j 07:08	16° II 46'45	
max. Earth dist.	-2859 Jun 19 j 01:57	3° II 28'58	31.05342 AU	morning rise	-2853 Jul 20 j 02:25	17° II 21'43	
morning rise	-2859 Jul 05 j 23:45	4° II 06'20		retrograde	-2853 Oct 15 j 01:20	19° II 14'14	
retrograde	-2859 Oct 01 j 12:26	5° II 59'32		opposition	-2853 Dec 31 j 04:16	17° II 51'44	-0°02'40
opposition	-2859 Dec 17 j 14:10	4° II 36'40	-0°33'46	min. Earth dist.	-2853 Dec 31 j 21:51	17° II 50'30	29.10714 AU
min. Earth dist.	-2859 Dec 18 j 05:21	4° II 35'37	29.05736 AU	direct	-2852 Mar 20 j 08:31	16° II 26'20	
direct	-2858 Mar 07 j 09:09	3° II 11'22		evening set	-2852 Jun 19 j 08:48	18° II 22'45	
evening set	-2858 Jun 06 j 01:55	5° II 07'37					
				conjunction	-2852 Jul 05 j 13:22	18° II 58'32	0°00'00
conjunction	-2858 Jun 22 j 08:46	5° II 43'34	-0°29'11	minimum elong	-2852 Jul 05 j 13:22	18° II 58'32	0°00'05
minimum elong	-2858 Jun 22 j 08:46	5° II 43'34	0°29'06	behind sun begin	-2852 Jul 05 j 07:08	18° II 57'59	
max. Earth dist.	-2858 Jun 21 j 15:29	5° II 41'58	31.06066 AU	behind sun end	-2852 Jul 05 j 19:36	18° II 59'05	
morning rise	-2858 Jul 08 j 12:33	6° II 19'17		max. Earth dist.	-2852 Jul 04 j 16:30	18° II 56'36	31.11243 AU
retrograde	-2858 Oct 03 j 22:37	8° II 12'20		asc. node	-2852 Jul 06 j 02:00	18° II 59'42	
opposition	-2858 Dec 20 j 00:32	6° II 49'32	-0°28'39	morning rise	-2852 Jul 21 j 14:32	19° II 34'03	
min. Earth dist.	-2858 Dec 20 j 16:38	6° II 48'24	29.06434 AU	retrograde	-2852 Oct 16 j 12:06	21° II 26'30	
direct	-2857 Mar 09 j 22:35	5° II 24'11		opposition	-2851 Jan 01 j 14:48	20° II 04'05	0°02'34
evening set	-2857 Jun 08 j 15:15	7° II 20'27		min. Earth dist.	-2851 Jan 02 j 09:37	20° II 02'46	29.11817 AU
				direct	-2851 Mar 22 j 20:00	18° II 38'44	
conjunction	-2857 Jun 24 j 21:39	7° II 56'22	-0°24'23	evening set	-2851 Jun 21 j 21:43	20° II 35'13	
minimum elong	-2857 Jun 24 j 21:40	7° II 56'22	0°24'19	max. Earth dist.	-2851 Jul 07 j 05:07	21° II 09'02	31.12347 AU
max. Earth dist.	-2857 Jun 24 j 02:32	7° II 54'36	31.06766 AU				
morning rise	-2857 Jul 11 j 01:15	8° II 32'03		conjunction	-2851 Jul 08 j 01:53	21° II 10'58	0°04'58
retrograde	-2857 Oct 06 j 10:30	10° II 24'59		minimum elong	-2851 Jul 08 j 01:52	21° II 10'58	0°05'03
opposition	-2857 Dec 22 j 10:50	9° II 02'12	-0°23'30	behind sun begin	-2851 Jul 07 j 19:30	21° II 10'24	
min. Earth dist.	-2857 Dec 23 j 02:59	9° II 01'04	29.07140 AU	behind sun end	-2851 Jul 08 j 08:14	21° II 11'32	
direct	-2856 Mar 11 j 10:27	7° II 36'49		morning rise	-2851 Jul 24 j 02:27	21° II 46'26	
evening set	-2856 Jun 10 j 04:30	9° II 33'06		retrograde	-2851 Oct 18 j 23:12	23° II 38'50	
				opposition	-2850 Jan 04 j 01:21	22° II 16'30	0°07'48
conjunction	-2856 Jun 26 j 10:44	10° II 09'00	-0°19'34	min. Earth dist.	-2850 Jan 04 j 20:22	22° II 15'10	29.12899 AU
minimum elong	-2856 Jun 26 j 10:44	10° II 09'00	0°19'28	direct	-2850 Mar 25 j 09:53	20° II 51'11	
max. Earth dist.	-2856 Jun 25 j 16:04	10° II 07'16	31.07480 AU	evening set	-2850 Jun 24 j 10:45	22° II 47'43	
morning rise	-2856 Jul 12 j 13:43	10° II 44'38					
retrograde	-2856 Oct 07 j 19:14	12° II 37'26		conjunction	-2850 Jul 10 j 14:18	23° II 23'26	0°09'50
opposition	-2856 Dec 23 j 21:11	11° II 14'43	-0°18'20	minimum elong	-2850 Jul 10 j 14:18	23° II 23'26	0°09'56
min. Earth dist.	-2856 Dec 24 j 14:42	11° II 13'29	29.07881 AU	behind sun begin	-2850 Jul 10 j 09:00	23° II 22'57	
direct	-2855 Mar 13 j 22:03	9° II 49'18		behind sun end	-2850 Jul 10 j 19:35	23° II 23'54	

Planetary Phenomena of Neptune from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 5

Attention, astronomical year style is used: The year -2850 in astronomical counting style is the year 2851 BCE in historical counting style.

max. Earth dist.	-2850 Jul 09 j 16:05	23° Π 21'22	31.13400 AU	max. Earth dist.	-2844 Jul 22 j 14:09	6° \mathfrak{D} 33'49	31.17577 AU
morning rise	-2850 Jul 26 j 14:25	23° Π 58'51		morning rise	-2844 Aug 08 j 11:42	7° \mathfrak{D} 11'17	
retrograde	-2850 Oct 21 j 10:36	25° Π 51'12		retrograde	-2844 Nov 02 j 22:57	9° \mathfrak{D} 03'09	
opposition	-2849 Jan 06 j 11:56	24° Π 28'57	0°13'01	opposition	-2843 Jan 19 j 04:12	7° \mathfrak{D} 41'02	0°43'33
min. Earth dist.	-2849 Jan 07 j 07:38	24° Π 27'34	29.13927 AU	min. Earth dist.	-2843 Jan 20 j 02:34	7° \mathfrak{D} 39'29	29.17878 AU
direct	-2849 Mar 27 j 20:58	23° Π 03'38		direct	-2843 Apr 10 j 00:30	6° \mathfrak{D} 15'36	
evening set	-2849 Jun 26 j 23:32	25° Π 00'13		evening set	-2843 Jul 10 j 02:54	8° \mathfrak{D} 12'08	
max. Earth dist.	-2849 Jul 12 j 04:54	25° Π 33'52	31.14367 AU	max. Earth dist.	-2843 Jul 25 j 01:24	8° \mathfrak{D} 45'12	31.18110 AU
conjunction	-2849 Jul 13 j 02:46	25° Π 35'54	0°14'41	conjunction	-2843 Jul 26 j 02:38	8° \mathfrak{D} 47'33	0°43'07
minimum elong	-2849 Jul 13 j 02:46	25° Π 35'53	0°14'46	minimum elong	-2843 Jul 26 j 02:37	8° \mathfrak{D} 47'33	0°43'12
behind sun begin	-2849 Jul 13 j 00:16	25° Π 35'40		morning rise	-2843 Aug 10 j 22:31	9° \mathfrak{D} 22'38	
behind sun end	-2849 Jul 13 j 05:15	25° Π 36'07		retrograde	-2843 Nov 05 j 08:33	11° \mathfrak{D} 14'27	
morning rise	-2849 Jul 29 j 02:12	26° Π 11'16		opposition	-2842 Jan 21 j 15:03	9° \mathfrak{D} 52'21	0°48'27
retrograde	-2849 Oct 23 j 21:17	28° Π 03'33		min. Earth dist.	-2842 Jan 22 j 14:05	9° \mathfrak{D} 50'45	29.18464 AU
opposition	-2848 Jan 08 j 22:40	26° Π 41'21	0°18'13	direct	-2842 Apr 12 j 11:37	8° \mathfrak{D} 26'53	
min. Earth dist.	-2848 Jan 09 j 19:20	26° Π 39'55	29.14828 AU	evening set	-2842 Jul 12 j 14:55	10° \mathfrak{D} 23'25	
direct	-2848 Mar 29 j 11:01	25° Π 16'04		conjunction	-2842 Jul 28 j 14:06	10° \mathfrak{D} 58'47	0°47'40
evening set	-2848 Jun 28 j 12:33	27° Π 12'39		minimum elong	-2842 Jul 28 j 14:05	10° \mathfrak{D} 58'47	0°47'45
conjunction	-2848 Jul 14 j 15:04	27° Π 48'18	0°19'32	max. Earth dist.	-2842 Jul 27 j 13:34	10° \mathfrak{D} 56'30	31.18740 AU
minimum elong	-2848 Jul 14 j 15:04	27° Π 48'17	0°19'38	morning rise	-2842 Aug 13 j 09:18	11° \mathfrak{D} 33'49	
max. Earth dist.	-2848 Jul 13 j 15:18	27° Π 46'05	31.15205 AU	retrograde	-2842 Nov 07 j 18:26	13° \mathfrak{D} 25'36	
morning rise	-2848 Jul 30 j 14:05	28° Π 23'37		opposition	-2841 Jan 24 j 01:47	12° \mathfrak{D} 03'31	0°53'16
retrograde	-2848 Sep 24 j 22:24	0° \mathfrak{D}		min. Earth dist.	-2841 Jan 25 j 00:25	12° \mathfrak{D} 01'57	29.19145 AU
opposition	-2848 Oct 25 j 09:28	0° \mathfrak{D} 15'49		direct	-2841 Apr 15 j 00:32	10° \mathfrak{D} 38'04	
min. Earth dist.	-2847 Jan 10 j 09:17	28° Π 53'40	0°23'23	evening set	-2841 Jul 15 j 02:57	12° \mathfrak{D} 34'37	
direct	-2847 Jan 11 j 06:01	28° Π 52'14	29.15609 AU	max. Earth dist.	-2841 Jul 30 j 00:08	13° \mathfrak{D} 07'35	31.19475 AU
evening set	-2847 Mar 31 j 23:54	27° Π 28'22		conjunction	-2841 Jul 31 j 01:24	13° \mathfrak{D} 09'56	0°52'08
max. Earth dist.	-2847 Jul 01 j 01:18	29° Π 24'58		minimum elong	-2841 Jul 31 j 01:24	13° \mathfrak{D} 09'56	0°52'12
retrograde	-2847 Jul 16 j 04:03	29° Π 58'24	31.15917 AU	morning rise	-2841 Aug 15 j 20:05	13° \mathfrak{D} 44'56	
conjunction	-2847 Jul 17 j 03:27	0° \mathfrak{D} 00'34	0°24'21	retrograde	-2841 Nov 10 j 05:36	15° \mathfrak{D} 36'41	
minimum elong	-2847 Jul 17 j 03:27	0° \mathfrak{D} 00'34	0°24'25	opposition	-2840 Jan 26 j 12:36	14° \mathfrak{D} 14'39	0°58'00
morning rise	-2847 Aug 02 j 01:41	0° \mathfrak{D} 35'51		min. Earth dist.	-2840 Jan 27 j 11:09	14° \mathfrak{D} 13'06	29.19944 AU
retrograde	-2847 Oct 27 j 18:12	2° \mathfrak{D} 27'58		direct	-2840 Apr 16 j 11:05	12° \mathfrak{D} 49'14	
opposition	-2846 Jan 12 j 20:11	1° \mathfrak{D} 05'50	0°28'30	evening set	-2840 Jul 16 j 14:49	14° \mathfrak{D} 45'49	
min. Earth dist.	-2846 Jan 13 j 18:20	1° \mathfrak{D} 04'18	29.16267 AU	conjunction	-2840 Aug 01 j 12:46	15° \mathfrak{D} 21'05	0°56'32
direct	-2846 Feb 26 j 23:47	30° \mathfrak{R} Π		minimum elong	-2840 Aug 01 j 12:46	15° \mathfrak{D} 21'05	0°56'37
evening set	-2846 Apr 03 j 12:28	29° Π 40'31		max. Earth dist.	-2840 Jul 31 j 12:39	15° \mathfrak{D} 18'51	31.20313 AU
conjunction	-2846 Jul 03 j 13:53	1° \mathfrak{D} 37'06		morning rise	-2840 Aug 17 j 06:39	15° \mathfrak{D} 56'02	
minimum elong	-2846 Jul 19 j 15:20	2° \mathfrak{D} 12'39	0°29'07	retrograde	-2840 Nov 11 j 15:54	17° \mathfrak{D} 47'48	
max. Earth dist.	-2846 Jul 18 j 14:39	2° \mathfrak{D} 10'21	31.16529 AU	opposition	-2839 Jan 27 j 23:32	16° \mathfrak{D} 25'50	1°02'40
morning rise	-2846 Aug 04 j 13:10	2° \mathfrak{D} 47'53		min. Earth dist.	-2839 Jan 28 j 22:25	16° \mathfrak{D} 24'15	29.20811 AU
retrograde	-2846 Oct 30 j 04:19	4° \mathfrak{D} 39'55		direct	-2839 Apr 19 j 00:41	15° \mathfrak{D} 00'29	
opposition	-2845 Jan 15 j 06:49	3° \mathfrak{D} 17'48	0°33'35	evening set	-2839 Jul 19 j 02:49	16° \mathfrak{D} 57'06	
min. Earth dist.	-2845 Jan 16 j 04:31	3° \mathfrak{D} 16'18	29.16838 AU	conjunction	-2839 Aug 03 j 23:56	17° \mathfrak{D} 32'19	1°00'51
direct	-2845 Apr 06 j 01:04	1° \mathfrak{D} 52'26		minimum elong	-2839 Aug 03 j 23:56	17° \mathfrak{D} 32'19	1°00'55
evening set	-2845 Jul 06 j 02:21	3° \mathfrak{D} 49'00		max. Earth dist.	-2839 Aug 02 j 22:45	17° \mathfrak{D} 29'59	31.21207 AU
max. Earth dist.	-2845 Jul 21 j 02:49	4° \mathfrak{D} 22'14	31.17060 AU	morning rise	-2839 Aug 19 j 17:19	18° \mathfrak{D} 07'13	
conjunction	-2845 Jul 22 j 03:21	4° \mathfrak{D} 24'31	0°33'50	retrograde	-2839 Nov 14 j 04:21	19° \mathfrak{D} 59'00	
minimum elong	-2845 Jul 22 j 03:21	4° \mathfrak{D} 24'31	0°33'55	opposition	-2838 Jan 30 j 10:30	18° \mathfrak{D} 37'07	1°07'14
morning rise	-2845 Aug 07 j 00:27	4° \mathfrak{D} 59'42		min. Earth dist.	-2838 Jan 31 j 08:46	18° \mathfrak{D} 35'34	29.21723 AU
retrograde	-2845 Nov 01 j 13:19	6° \mathfrak{D} 51'39		direct	-2838 Apr 21 j 12:57	17° \mathfrak{D} 11'49	
opposition	-2844 Jan 17 j 17:29	5° \mathfrak{D} 29'32	0°38'36	evening set	-2838 Jul 21 j 14:26	19° \mathfrak{D} 08'28	
min. Earth dist.	-2844 Jan 18 j 16:34	5° \mathfrak{D} 27'56	29.17358 AU	max. Earth dist.	-2838 Aug 05 j 10:52	19° \mathfrak{D} 41'24	31.22098 AU
direct	-2844 Apr 07 j 11:50	4° \mathfrak{D} 04'08		conjunction	-2838 Aug 06 j 11:04	19° \mathfrak{D} 43'39	1°05'04
evening set	-2844 Jul 07 j 14:45	6° \mathfrak{D} 00'41		minimum elong	-2838 Aug 06 j 11:04	19° \mathfrak{D} 43'39	1°05'10
conjunction	-2844 Jul 23 j 15:08	6° \mathfrak{D} 36'08	0°38'30	morning rise	-2838 Aug 22 j 03:38	20° \mathfrak{D} 18'31	
minimum elong	-2844 Jul 23 j 15:08	6° \mathfrak{D} 36'08	0°38'36	retrograde	-2838 Nov 16 j 13:31	22° \mathfrak{D} 10'19	
				opposition	-2837 Feb 01 j 21:40	20° \mathfrak{D} 48'30	1°11'42
				min. Earth dist.	-2837 Feb 02 j 21:04	20° \mathfrak{D} 46'53	29.22594 AU
				direct	-2837 Apr 24 j 01:08	19° \mathfrak{D} 23'16	
				evening set	-2837 Jul 24 j 02:21	21° \mathfrak{D} 19'57	

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Attention, astronomical year style is used: The year -2837 in astronomical counting style is the year 2838 BCE in historical counting style.

conjunction	-2837 Aug 08 j 22:10	21°☾55'05	1°09'12	retrograde	-2831 Dec 01 j 11:10	7°♊29'10	
minimum elong	-2837 Aug 08 j 22:09	21°☾55'05	1°09'16	opposition	-2830 Feb 17 j 04:41	6°♊07'22	1°39'40
max. Earth dist.	-2837 Aug 07 j 20:58	21°☾52'44	31.22932 AU	min. Earth dist.	-2830 Feb 18 j 04:17	6°♊05'45	29.26000 AU
morning rise	-2837 Aug 24 j 14:13	22°☾29'54		direct	-2830 May 09 j 12:27	4°♊42'14	
retrograde	-2837 Nov 19 j 00:01	24°☾21'43		evening set	-2830 Aug 08 j 10:13	6°♊38'45	
opposition	-2836 Feb 04 j 08:38	22°☾59'57	1°16'03	max. Earth dist.	-2830 Aug 23 j 00:17	7°♊11'12	31.26078 AU
min. Earth dist.	-2836 Feb 05 j 07:19	22°☾58'23	29.23383 AU				
direct	-2836 Apr 25 j 13:32	21°☾34'46		conjunction	-2830 Aug 24 j 01:17	7°♊13'32	1°34'58
evening set	-2836 Jul 25 j 14:09	23°☾31'28		minimum elong	-2830 Aug 24 j 01:16	7°♊13'32	1°35'02
max. Earth dist.	-2836 Aug 09 j 08:28	24°☾04'15	31.23652 AU	morning rise	-2830 Sep 08 j 12:51	7°♊48'01	
				retrograde	-2830 Dec 03 j 23:03	9°♊39'54	
conjunction	-2836 Aug 10 j 09:22	24°☾06'34	1°13'14	opposition	-2829 Feb 19 j 16:02	8°♊18'04	1°43'07
minimum elong	-2836 Aug 10 j 09:21	24°☾06'34	1°13'19	min. Earth dist.	-2829 Feb 20 j 14:27	8°♊16'32	29.26401 AU
morning rise	-2836 Aug 26 j 00:37	24°☾41'20		direct	-2829 May 12 j 00:40	6°♊52'57	
retrograde	-2836 Nov 20 j 09:49	26°☾33'10		evening set	-2829 Aug 10 j 21:06	8°♊49'26	
opposition	-2835 Feb 05 j 20:00	25°☾11'26	1°20'18				
min. Earth dist.	-2835 Feb 06 j 19:54	25°☾09'48	29.24057 AU	conjunction	-2829 Aug 26 j 11:39	9°♊24'10	1°38'08
direct	-2835 Apr 28 j 00:18	23°☾46'18		minimum elong	-2829 Aug 26 j 11:38	9°♊24'10	1°38'11
evening set	-2835 Jul 28 j 01:47	25°☾42'59		max. Earth dist.	-2829 Aug 25 j 12:06	9°♊21'58	31.26514 AU
				morning rise	-2829 Sep 10 j 22:25	9°♊58'36	
conjunction	-2835 Aug 12 j 20:15	26°☾18'02	1°17'10	retrograde	-2829 Dec 06 j 08:03	11°♊50'31	
minimum elong	-2835 Aug 12 j 20:15	26°☾18'02	1°17'13	opposition	-2828 Feb 22 j 03:29	10°♊28'42	1°46'26
max. Earth dist.	-2835 Aug 11 j 19:04	26°☾15'41	31.24261 AU	min. Earth dist.	-2828 Feb 23 j 02:23	10°♊27'08	29.26892 AU
morning rise	-2835 Aug 28 j 10:55	26°☾52'45		direct	-2828 May 13 j 12:40	9°♊03'37	
retrograde	-2835 Nov 22 j 19:18	28°☾44'36		evening set	-2828 Aug 12 j 08:02	11°♊00'05	
opposition	-2834 Feb 08 j 07:17	27°☾22'54	1°24'26				
min. Earth dist.	-2834 Feb 09 j 06:27	27°☾21'18	29.24599 AU	conjunction	-2828 Aug 27 j 21:47	11°♊34'46	1°41'09
direct	-2834 Apr 30 j 13:00	25°☾57'46		minimum elong	-2828 Aug 27 j 21:46	11°♊34'46	1°41'13
evening set	-2834 Jul 30 j 13:23	27°☾54'27		max. Earth dist.	-2828 Aug 26 j 22:05	11°♊32'33	31.27060 AU
max. Earth dist.	-2834 Aug 14 j 05:32	28°☾27'03	31.24736 AU	morning rise	-2828 Sep 12 j 08:05	12°♊09'10	
				retrograde	-2828 Dec 07 j 19:01	14°♊01'07	
conjunction	-2834 Aug 15 j 07:11	28°☾29'27	1°20'58	opposition	-2827 Feb 23 j 14:58	12°♊39'19	1°49'35
minimum elong	-2834 Aug 15 j 07:10	28°☾29'27	1°21'03	min. Earth dist.	-2827 Feb 24 j 12:22	12°♊37'51	29.27480 AU
morning rise	-2834 Aug 30 j 21:11	29°☾04'07		direct	-2827 May 16 j 01:39	11°♊14'18	
	-2834 Sep 27 j 15:42	0°♊		evening set	-2827 Aug 14 j 18:39	13°♊10'45	
retrograde	-2834 Nov 25 j 04:49	0°♊55'58		max. Earth dist.	-2827 Aug 29 j 09:10	13°♊43'16	31.27672 AU
	-2833 Jan 25 j 20:51	30°♋☾					
opposition	-2833 Feb 10 j 18:32	29°☾34'15	1°28'26	conjunction	-2827 Aug 30 j 07:50	13°♊45'24	1°44'02
min. Earth dist.	-2833 Feb 11 j 18:31	29°☾32'37	29.25037 AU	minimum elong	-2827 Aug 30 j 07:50	13°♊45'24	1°44'05
direct	-2833 May 02 j 23:39	28°☾09'08		morning rise	-2827 Sep 14 j 17:28	14°♊19'45	
	-2833 Jul 30 j 08:55	0°♊			-2827 Oct 04 j 01:25	15°♊	
evening set	-2833 Aug 02 j 00:48	0°♊05'47		retrograde	-2827 Dec 10 j 05:18	16°♊11'46	
					-2826 Feb 19 j 23:50	15°♋♊	
conjunction	-2833 Aug 17 j 18:01	0°♊40'44	1°24'39	opposition	-2826 Feb 26 j 02:43	14°♊50'00	1°52'35
minimum elong	-2833 Aug 17 j 18:01	0°♊40'44	1°24'43	min. Earth dist.	-2826 Feb 27 j 00:40	14°♊48'30	29.28121 AU
max. Earth dist.	-2833 Aug 16 j 16:56	0°♊38'23	31.25120 AU	direct	-2826 May 18 j 12:58	13°♊25'04	
morning rise	-2833 Sep 02 j 07:21	1°♊15'21			-2826 Aug 07 j 04:24	15°♊	
retrograde	-2833 Nov 27 j 14:13	3°♊07'12		evening set	-2826 Aug 17 j 05:22	15°♊21'29	
opposition	-2832 Feb 13 j 05:51	1°♊45'28	1°32'19				
min. Earth dist.	-2832 Feb 14 j 05:37	1°♊43'51	29.25373 AU	conjunction	-2826 Sep 01 j 17:54	15°♊56'06	1°46'46
direct	-2832 May 04 j 11:58	0°♊20'21		minimum elong	-2826 Sep 01 j 17:54	15°♊56'06	1°46'50
evening set	-2832 Aug 03 j 12:10	2°♊16'57		max. Earth dist.	-2826 Aug 31 j 19:37	15°♊54'00	31.28317 AU
max. Earth dist.	-2832 Aug 18 j 02:47	2°♊49'26	31.25426 AU	morning rise	-2826 Sep 17 j 03:02	16°♊30'25	
				retrograde	-2826 Dec 12 j 14:46	18°♊22'30	
conjunction	-2832 Aug 19 j 04:34	2°♊51'51	1°28'13	opposition	-2825 Feb 28 j 14:13	17°♊00'46	1°55'25
minimum elong	-2832 Aug 19 j 04:34	2°♊51'51	1°28'19	min. Earth dist.	-2825 Mar 01 j 11:04	16°♊59'21	29.28750 AU
morning rise	-2832 Sep 03 j 17:21	3°♊26'26		direct	-2825 May 21 j 01:24	15°♊35'54	
retrograde	-2832 Nov 29 j 01:10	5°♊18'17		evening set	-2825 Aug 19 j 16:06	17°♊32'19	
opposition	-2831 Feb 14 j 17:12	3°♊56'31	1°36'04	max. Earth dist.	-2825 Sep 03 j 05:34	18°♊04'47	31.28911 AU
min. Earth dist.	-2831 Feb 15 j 16:47	3°♊54'54	29.25680 AU				
direct	-2831 May 06 j 22:38	2°♊31'23		conjunction	-2825 Sep 04 j 03:59	18°♊06'53	1°49'21
evening set	-2831 Aug 05 j 23:15	4°♊27'56		minimum elong	-2825 Sep 04 j 03:59	18°♊06'53	1°49'24
				morning rise	-2825 Sep 19 j 12:34	18°♊41'10	
conjunction	-2831 Aug 21 j 15:08	5°♊02'47	1°31'40	retrograde	-2825 Dec 15 j 00:48	20°♊33'21	
minimum elong	-2831 Aug 21 j 15:08	5°♊02'47	1°31'43	opposition	-2824 Mar 02 j 02:07	19°♊11'38	1°58'05
max. Earth dist.	-2831 Aug 20 j 14:45	5°♊00'30	31.25727 AU	min. Earth dist.	-2824 Mar 02 j 23:24	19°♊10'11	29.29317 AU
morning rise	-2831 Sep 06 j 03:08	5°♊37'18		direct	-2824 May 22 j 11:34	17°♊46'51	

Attention, astronomical year style is used: The year -2824 in astronomical counting style is the year 2825 BCE in historical counting style.

evening set	-2824 Aug 21 j 02:43	19°Ω43'14		minimum elong	-2818 Sep 19 j 00:50	3°♊22'43	2°02'51
				morning rise	-2818 Oct 04 j 06:01	3°♊56'47	
conjunction	-2824 Sep 05 j 14:02	20°Ω17'46	1°51'46	retrograde	-2818 Dec 30 j 03:33	5°♊49'27	
minimum elong	-2824 Sep 05 j 14:02	20°Ω17'46	1°51'50	opposition	-2817 Mar 18 j 14:32	4°♊27'32	2°11'52
max. Earth dist.	-2824 Sep 04 j 16:36	20°Ω15'45	31.29418 AU	min. Earth dist.	-2817 Mar 19 j 09:38	4°♊26'14	29.29944 AU
morning rise	-2824 Sep 20 j 21:58	20°Ω52'01		direct	-2817 Jun 08 j 00:19	3°♊02'58	
retrograde	-2824 Dec 16 j 10:21	22°Ω44'16		evening set	-2817 Sep 06 j 02:52	4°♊58'58	
opposition	-2823 Mar 04 j 14:07	21°Ω22'35	2°00'36				
min. Earth dist.	-2823 Mar 05 j 10:58	21°Ω21'10	29.29759 AU	conjunction	-2817 Sep 21 j 10:19	5°♊33'14	2°04'03
direct	-2823 May 24 j 23:29	19°Ω57'51		minimum elong	-2817 Sep 21 j 10:19	5°♊33'14	2°04'04
evening set	-2823 Aug 23 j 13:27	21°Ω54'13		max. Earth dist.	-2817 Sep 20 j 15:47	5°♊31'29	31.29758 AU
max. Earth dist.	-2823 Sep 07 j 01:53	22°Ω26'37	31.29792 AU	morning rise	-2817 Oct 06 j 15:07	6°♊07'16	
				retrograde	-2816 Jan 01 j 12:38	8°♊00'01	
conjunction	-2823 Sep 08 j 00:01	22°Ω28'42	1°54'01	opposition	-2816 Mar 20 j 02:41	6°♊38'04	2°13'06
minimum elong	-2823 Sep 08 j 00:01	22°Ω28'42	1°54'04	min. Earth dist.	-2816 Mar 20 j 20:01	6°♊36'53	29.29903 AU
morning rise	-2823 Sep 23 j 07:33	23°Ω02'55		direct	-2816 Jun 09 j 13:10	5°♊13'33	
retrograde	-2823 Dec 18 j 21:58	24°Ω55'15		evening set	-2816 Sep 07 j 12:43	7°♊09'29	
opposition	-2822 Mar 07 j 02:07	23°Ω33'33	2°02'55				
min. Earth dist.	-2822 Mar 07 j 22:41	23°Ω32'09	29.30077 AU	conjunction	-2816 Sep 22 j 19:38	7°♊43'43	2°05'07
direct	-2822 May 27 j 09:47	22°Ω08'52		minimum elong	-2816 Sep 22 j 19:38	7°♊43'43	2°05'09
evening set	-2822 Aug 25 j 23:51	24°Ω05'12		max. Earth dist.	-2816 Sep 22 j 01:30	7°♊42'01	31.29757 AU
				morning rise	-2816 Oct 08 j 00:06	8°♊17'44	
conjunction	-2822 Sep 10 j 10:02	24°Ω39'38	1°56'07	retrograde	-2815 Jan 02 j 22:26	10°♊10'35	
minimum elong	-2822 Sep 10 j 10:02	24°Ω39'38	1°56'10	opposition	-2815 Mar 22 j 15:01	8°♊48'37	2°14'08
max. Earth dist.	-2822 Sep 09 j 13:09	24°Ω37'41	31.30025 AU	min. Earth dist.	-2815 Mar 23 j 08:01	8°♊47'28	29.29955 AU
morning rise	-2822 Sep 25 j 16:56	25°Ω13'49		direct	-2815 Jun 11 j 23:31	7°♊24'10	
retrograde	-2822 Dec 21 j 08:09	27°Ω06'14		evening set	-2815 Sep 09 j 22:28	9°♊20'02	
opposition	-2821 Mar 09 j 14:13	25°Ω44'31	2°05'04				
min. Earth dist.	-2821 Mar 10 j 11:01	25°Ω43'06	29.30230 AU	conjunction	-2815 Sep 25 j 05:04	9°♊54'15	2°06'00
direct	-2821 May 29 j 22:52	24°Ω19'53		minimum elong	-2815 Sep 25 j 05:03	9°♊54'15	2°06'01
evening set	-2821 Aug 28 j 10:26	26°Ω16'09		max. Earth dist.	-2815 Sep 24 j 12:37	9°♊52'42	31.29847 AU
				morning rise	-2815 Oct 10 j 09:06	10°♊28'15	
conjunction	-2821 Sep 12 j 19:52	26°Ω50'33	1°58'03	retrograde	-2814 Jan 05 j 07:47	12°♊21'13	
minimum elong	-2821 Sep 12 j 19:52	26°Ω50'33	1°58'05	opposition	-2814 Mar 25 j 03:15	10°♊59'14	2°14'59
max. Earth dist.	-2821 Sep 11 j 22:08	26°Ω48'31	31.30108 AU	min. Earth dist.	-2814 Mar 25 j 19:13	10°♊58'09	29.30065 AU
morning rise	-2821 Sep 28 j 02:26	27°Ω24'42		direct	-2814 Jun 14 j 11:00	9°♊34'52	
retrograde	-2821 Dec 23 j 20:20	29°Ω17'11		evening set	-2814 Sep 12 j 08:14	11°♊30'42	
opposition	-2820 Mar 11 j 02:09	27°Ω55'26	2°07'03				
min. Earth dist.	-2820 Mar 11 j 21:57	27°Ω54'05	29.30251 AU	conjunction	-2814 Sep 27 j 14:17	12°♊04'53	2°06'42
direct	-2820 May 31 j 10:35	26°Ω30'48		minimum elong	-2814 Sep 27 j 14:17	12°♊04'53	2°06'44
evening set	-2820 Aug 29 j 20:44	28°Ω27'02		max. Earth dist.	-2814 Sep 26 j 21:42	12°♊03'19	31.29977 AU
max. Earth dist.	-2820 Sep 13 j 09:17	28°Ω59'28	31.30066 AU	morning rise	-2814 Oct 12 j 18:11	12°♊38'53	
				retrograde	-2813 Jan 07 j 19:30	14°♊31'58	
conjunction	-2820 Sep 14 j 05:46	29°Ω01'23	1°59'48	opposition	-2813 Mar 27 j 15:33	13°♊09'58	2°15'38
minimum elong	-2820 Sep 14 j 05:46	29°Ω01'23	1°59'52	min. Earth dist.	-2813 Mar 28 j 06:44	13°♊08'57	29.30203 AU
morning rise	-2820 Sep 29 j 11:43	29°Ω35'31		direct	-2813 Jun 16 j 21:05	11°♊45'41	
	-2820 Oct 10 j 22:18	0°♊		evening set	-2813 Sep 14 j 17:52	13°♊41'28	
retrograde	-2820 Dec 25 j 05:55	1°♊28'03					
opposition	-2819 Mar 13 j 14:24	0°♊06'15	2°08'50	conjunction	-2813 Sep 29 j 23:40	14°♊15'37	2°07'13
min. Earth dist.	-2819 Mar 14 j 10:47	0°♊04'52	29.30168 AU	minimum elong	-2813 Sep 29 j 23:40	14°♊15'37	2°07'14
	-2819 Mar 17 j 10:34	30°♋Ω		max. Earth dist.	-2813 Sep 29 j 08:52	14°♊14'14	31.30096 AU
direct	-2819 Jun 02 j 22:46	28°Ω41'39		morning rise	-2813 Oct 15 j 03:05	14°♊49'36	
	-2819 Aug 14 j 06:24	0°♊		retrograde	-2812 Jan 10 j 05:36	16°♊42'49	
evening set	-2819 Sep 01 j 06:51	0°♊37'47		opposition	-2812 Mar 29 j 04:00	15°♊20'49	2°16'05
				min. Earth dist.	-2812 Mar 29 j 19:00	15°♊19'48	29.30292 AU
conjunction	-2819 Sep 16 j 15:15	1°♊12'07	2°01'24	direct	-2812 Jun 18 j 08:51	13°♊56'37	
minimum elong	-2819 Sep 16 j 15:15	1°♊12'07	2°01'26	evening set	-2812 Sep 16 j 03:42	15°♊52'20	
max. Earth dist.	-2819 Sep 15 j 18:47	1°♊10'11	31.29959 AU				
morning rise	-2819 Oct 01 j 20:55	1°♊46'12		conjunction	-2812 Oct 01 j 08:57	16°♊26'29	2°07'33
retrograde	-2819 Dec 27 j 17:03	3°♊38'48		minimum elong	-2812 Oct 01 j 08:57	16°♊26'29	2°07'34
opposition	-2818 Mar 16 j 02:28	2°♊16'56	2°10'27	max. Earth dist.	-2812 Sep 30 j 17:45	16°♊25'03	31.30158 AU
min. Earth dist.	-2818 Mar 16 j 21:15	2°♊15'40	29.30046 AU	morning rise	-2812 Oct 16 j 12:17	17°♊00'27	
direct	-2818 Jun 05 j 12:23	0°♊52'21		retrograde	-2811 Jan 11 j 18:07	18°♊53'47	
evening set	-2818 Sep 03 j 16:52	2°♊48'25		opposition	-2811 Mar 31 j 16:31	17°♊31'46	2°16'21
max. Earth dist.	-2818 Sep 18 j 05:24	3°♊20'53	31.29829 AU	min. Earth dist.	-2811 Apr 01 j 06:09	17°♊30'51	29.30312 AU
				direct	-2811 Jun 20 j 19:07	16°♊07'38	
conjunction	-2818 Sep 19 j 00:50	3°♊22'43	2°02'49	evening set	-2811 Sep 18 j 13:14	18°♊03'18	

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Attention, astronomical year style is used: The year -2811 in astronomical counting style is the year 2812 BCE in historical counting style.

conjunction	-2811 Oct 03 j 18:17	18° \mathring{M} 37'25	2°07'42	retrograde	-2804 Jan 27 j 20:48	4° \mathring{A} 09'54	
minimum elong	-2811 Oct 03 j 18:17	18° \mathring{M} 37'25	2°07'42	opposition	-2804 Apr 16 j 09:17	2° \mathring{A} 47'21	2°12'46
max. Earth dist.	-2811 Oct 03 j 04:26	18° \mathring{M} 36'07	31.30114 AU	min. Earth dist.	-2804 Apr 16 j 18:18	2° \mathring{A} 46'45	29.27253 AU
morning rise	-2811 Oct 18 j 21:14	19° \mathring{M} 11'23		direct	-2804 Jul 06 j 07:52	1° \mathring{A} 23'24	
retrograde	-2810 Jan 14 j 04:34	21° \mathring{M} 04'50		evening set	-2804 Oct 03 j 07:09	3° \mathring{A} 18'20	
opposition	-2810 Apr 03 j 05:14	19° \mathring{M} 42'46	2°16'25				
min. Earth dist.	-2810 Apr 03 j 19:21	19° \mathring{M} 41'49	29.30204 AU	conjunction	-2804 Oct 18 j 10:31	3° \mathring{A} 52'22	2°03'42
direct	-2810 Jun 23 j 06:48	18° \mathring{M} 18'42		minimum elong	-2804 Oct 18 j 10:32	3° \mathring{A} 52'22	2°03'42
evening set	-2810 Sep 20 j 23:00	20° \mathring{M} 14'17		max. Earth dist.	-2804 Oct 18 j 02:17	3° \mathring{A} 51'35	31.26861 AU
				morning rise	-2804 Nov 02 j 12:39	4° \mathring{A} 26'19	
conjunction	-2810 Oct 06 j 03:37	20° \mathring{M} 48'23	2°07'40	retrograde	-2803 Jan 29 j 06:33	6° \mathring{A} 20'26	
minimum elong	-2810 Oct 06 j 03:38	20° \mathring{M} 48'23	2°07'41	opposition	-2803 Apr 18 j 22:06	4° \mathring{A} 57'49	2°11'29
max. Earth dist.	-2810 Oct 05 j 13:46	20° \mathring{M} 47'05	31.29942 AU	min. Earth dist.	-2803 Apr 19 j 06:19	4° \mathring{A} 57'16	29.26787 AU
morning rise	-2810 Oct 21 j 06:29	21° \mathring{M} 22'20		direct	-2803 Jul 08 j 19:17	3° \mathring{A} 33'55	
retrograde	-2809 Jan 16 j 16:48	23° \mathring{M} 15'53		evening set	-2803 Oct 05 j 16:14	5° \mathring{A} 28'46	
opposition	-2809 Apr 05 j 17:40	21° \mathring{M} 53'47	2°16'17				
min. Earth dist.	-2809 Apr 06 j 06:20	21° \mathring{M} 52'55	29.29952 AU	conjunction	-2803 Oct 20 j 19:21	6° \mathring{A} 02'48	2°02'24
direct	-2809 Jun 25 j 20:10	20° \mathring{M} 29'44		minimum elong	-2803 Oct 20 j 19:21	6° \mathring{A} 02'48	2°02'23
evening set	-2809 Sep 23 j 08:40	22° \mathring{M} 25'15		max. Earth dist.	-2803 Oct 20 j 11:18	6° \mathring{A} 02'02	31.26458 AU
				morning rise	-2803 Nov 04 j 21:39	6° \mathring{A} 36'46	
conjunction	-2809 Oct 08 j 13:02	22° \mathring{M} 59'20	2°07'27	retrograde	-2802 Jan 31 j 18:57	8° \mathring{A} 31'00	
minimum elong	-2809 Oct 08 j 13:02	22° \mathring{M} 59'20	2°07'27	opposition	-2802 Apr 21 j 10:47	7° \mathring{A} 08'21	2°10'01
max. Earth dist.	-2809 Oct 07 j 23:49	22° \mathring{M} 58'05	31.29609 AU	min. Earth dist.	-2802 Apr 21 j 17:05	7° \mathring{A} 07'56	29.26424 AU
morning rise	-2809 Oct 23 j 15:40	23° \mathring{M} 33'17		direct	-2802 Jul 11 j 04:56	5° \mathring{A} 44'31	
retrograde	-2808 Jan 19 j 04:17	25° \mathring{M} 26'55		evening set	-2802 Oct 08 j 01:17	7° \mathring{A} 39'19	
opposition	-2808 Apr 07 j 06:29	24° \mathring{M} 04'44	2°15'58				
min. Earth dist.	-2808 Apr 07 j 19:37	24° \mathring{M} 03'51	29.29550 AU	conjunction	-2802 Oct 23 j 04:24	8° \mathring{A} 13'20	2°00'57
direct	-2808 Jun 27 j 08:07	22° \mathring{M} 40'43		minimum elong	-2802 Oct 23 j 04:25	8° \mathring{A} 13'20	2°00'56
evening set	-2808 Sep 24 j 18:07	24° \mathring{M} 36'08		max. Earth dist.	-2802 Oct 22 j 22:06	8° \mathring{A} 12'45	31.26129 AU
				morning rise	-2802 Nov 07 j 06:37	8° \mathring{A} 47'19	
conjunction	-2808 Oct 09 j 22:15	25° \mathring{M} 10'12	2°07'03	retrograde	-2801 Feb 03 j 05:46	10° \mathring{A} 41'42	
minimum elong	-2808 Oct 09 j 22:15	25° \mathring{M} 10'12	2°07'05	opposition	-2801 Apr 23 j 23:31	9° \mathring{A} 19'02	2°08'21
max. Earth dist.	-2808 Oct 09 j 09:53	25° \mathring{M} 09'02	31.29147 AU	min. Earth dist.	-2801 Apr 24 j 05:48	9° \mathring{A} 18'36	29.26120 AU
morning rise	-2808 Oct 25 j 00:44	25° \mathring{M} 44'08		direct	-2801 Jul 13 j 15:52	7° \mathring{A} 55'17	
retrograde	-2807 Jan 20 j 13:53	27° \mathring{M} 37'52		evening set	-2801 Oct 10 j 10:26	9° \mathring{A} 50'01	
opposition	-2807 Apr 09 j 19:13	26° \mathring{M} 15'36	2°15'27				
min. Earth dist.	-2807 Apr 10 j 06:47	26° \mathring{M} 14'49	29.29018 AU	conjunction	-2801 Oct 25 j 13:24	10° \mathring{A} 24'03	1°59'18
direct	-2807 Jun 29 j 21:28	24° \mathring{M} 51'35		minimum elong	-2801 Oct 25 j 13:24	10° \mathring{A} 24'03	1°59'17
evening set	-2807 Sep 27 j 03:36	26° \mathring{M} 46'52		max. Earth dist.	-2801 Oct 25 j 07:47	10° \mathring{A} 23'31	31.25856 AU
				morning rise	-2801 Nov 09 j 15:43	10° \mathring{A} 58'03	
conjunction	-2807 Oct 12 j 07:25	27° \mathring{M} 20'56	2°06'29	retrograde	-2800 Feb 05 j 18:48	12° \mathring{A} 52'34	
minimum elong	-2807 Oct 12 j 07:25	27° \mathring{M} 20'56	2°06'29	opposition	-2800 Apr 25 j 12:21	11° \mathring{A} 29'53	2°06'30
max. Earth dist.	-2807 Oct 11 j 19:09	27° \mathring{M} 19'46	31.28574 AU	min. Earth dist.	-2800 Apr 25 j 16:39	11° \mathring{A} 29'35	29.25843 AU
morning rise	-2807 Oct 27 j 09:53	27° \mathring{M} 54'52		direct	-2800 Jul 15 j 04:11	10° \mathring{A} 06'14	
retrograde	-2806 Jan 23 j 00:17	29° \mathring{M} 48'40		evening set	-2800 Oct 11 j 19:27	12° \mathring{A} 00'54	
opposition	-2806 Apr 12 j 07:54	28° \mathring{M} 26'18	2°14'45				
min. Earth dist.	-2806 Apr 12 j 19:19	28° \mathring{M} 25'32	29.28424 AU	conjunction	-2800 Oct 26 j 22:21	12° \mathring{A} 34'57	1°57'29
direct	-2806 Jul 02 j 08:45	27° \mathring{M} 02'18		minimum elong	-2800 Oct 26 j 22:22	12° \mathring{A} 34'57	1°57'29
evening set	-2806 Sep 29 j 12:47	28° \mathring{M} 57'28		max. Earth dist.	-2800 Oct 26 j 17:43	12° \mathring{A} 34'31	31.25572 AU
				morning rise	-2800 Nov 11 j 00:45	13° \mathring{A} 08'58	
conjunction	-2806 Oct 14 j 16:33	29° \mathring{M} 31'31	2°05'44	retrograde	-2799 Feb 07 j 07:21	15° \mathring{A} 03'39	
minimum elong	-2806 Oct 14 j 16:33	29° \mathring{M} 31'31	2°05'45	opposition	-2799 Apr 28 j 01:27	13° \mathring{A} 40'56	2°04'28
max. Earth dist.	-2806 Oct 14 j 06:03	29° \mathring{M} 30'31	31.27966 AU	min. Earth dist.	-2799 Apr 28 j 05:54	13° \mathring{A} 40'38	29.25545 AU
	-2806 Oct 27 j 07:48	0° \mathring{A}		direct	-2799 Jul 17 j 15:06	12° \mathring{A} 17'22	
morning rise	-2806 Oct 29 j 18:49	0° \mathring{A} 05'27		evening set	-2799 Oct 14 j 04:37	14° \mathring{A} 11'59	
retrograde	-2805 Jan 25 j 09:30	1° \mathring{A} 59'20					
opposition	-2805 Apr 14 j 20:35	0° \mathring{A} 36'53	2°13'51	conjunction	-2799 Oct 29 j 07:32	14° \mathring{A} 46'02	1°55'30
min. Earth dist.	-2805 Apr 15 j 06:49	0° \mathring{A} 36'11	29.27806 AU	minimum elong	-2799 Oct 29 j 07:32	14° \mathring{A} 46'02	1°55'28
	-2805 May 08 j 09:48	30° \mathring{R} \mathring{M}		max. Earth dist.	-2799 Oct 29 j 04:05	14° \mathring{A} 45'43	31.25252 AU
direct	-2805 Jul 04 j 21:29	29° \mathring{M} 12'53		morning rise	-2799 Nov 13 j 09:59	15° \mathring{A} 20'05	
	-2805 Aug 28 j 10:15	0° \mathring{A}		retrograde	-2798 Feb 09 j 17:56	17° \mathring{A} 14'54	
evening set	-2805 Oct 01 j 22:04	1° \mathring{A} 07'56		opposition	-2798 Apr 30 j 14:16	15° \mathring{A} 52'10	2°02'16
				min. Earth dist.	-2798 Apr 30 j 17:06	15° \mathring{A} 51'58	29.25173 AU
conjunction	-2805 Oct 17 j 01:26	1° \mathring{A} 41'58	2°04'48	direct	-2798 Jul 20 j 03:44	14° \mathring{A} 28'40	
minimum elong	-2805 Oct 17 j 01:26	1° \mathring{A} 41'58	2°04'47	evening set	-2798 Oct 16 j 13:52	16° \mathring{A} 23'14	
max. Earth dist.	-2805 Oct 16 j 15:01	1° \mathring{A} 40'59	31.27372 AU				
morning rise	-2805 Nov 01 j 03:47	2° \mathring{A} 15'55		conjunction	-2798 Oct 31 j 16:41	16° \mathring{A} 57'17	1°53'21

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

minimum elong	-2798 Oct 31 j 16:41	16° <u>♂</u> 57'17	1°53'20	opposition	-2791 May 16 j 09:47	1° <u>♂</u> 11'28	1°42'05
max. Earth dist.	-2798 Oct 31 j 13:07	16° <u>♂</u> 56'57	31.24829 AU	min. Earth dist.	-2791 May 16 j 06:18	1° <u>♂</u> 11'42	29.19949 AU
morning rise	-2798 Nov 15 j 19:22	17° <u>♂</u> 31'21			-2791 Jul 08 j 05:10	30° <u>♂</u> 00'	
retrograde	-2797 Feb 12 j 05:46	19° <u>♂</u> 26'19		direct	-2791 Aug 04 j 11:43	29° <u>♂</u> 48'09	
opposition	-2797 May 03 j 03:23	18° <u>♂</u> 03'32	1°59'52		-2791 Aug 31 j 04:38	0° <u>♂</u> 00'	
min. Earth dist.	-2797 May 03 j 06:07	18° <u>♂</u> 03'21	29.24694 AU	evening set	-2791 Oct 31 j 05:23	1° <u>♂</u> 41'56	
direct	-2797 Jul 22 j 15:11	16° <u>♂</u> 40'07					
evening set	-2797 Oct 18 j 22:59	18° <u>♂</u> 34'34		conjunction	-2791 Nov 15 j 08:51	2° <u>♂</u> 16'05	1°33'56
				minimum elong	-2791 Nov 15 j 08:52	2° <u>♂</u> 16'05	1°33'53
conjunction	-2797 Nov 03 j 01:56	19° <u>♂</u> 08'39	1°51'02	max. Earth dist.	-2791 Nov 15 j 11:58	2° <u>♂</u> 16'22	31.19512 AU
minimum elong	-2797 Nov 03 j 01:56	19° <u>♂</u> 08'39	1°50'59	morning rise	-2791 Nov 30 j 13:06	2° <u>♂</u> 50'20	
max. Earth dist.	-2797 Nov 03 j 00:00	19° <u>♂</u> 08'28	31.24285 AU	retrograde	-2790 Feb 27 j 13:15	4° <u>♂</u> 46'02	
morning rise	-2797 Nov 18 j 04:36	19° <u>♂</u> 42'44		opposition	-2790 May 18 j 22:47	3° <u>♂</u> 22'37	1°38'35
retrograde	-2796 Feb 14 j 16:06	21° <u>♂</u> 37'49		min. Earth dist.	-2790 May 18 j 19:11	3° <u>♂</u> 22'52	29.19270 AU
opposition	-2796 May 04 j 16:29	20° <u>♂</u> 14'59	1°57'19	direct	-2790 Aug 06 j 21:37	1° <u>♂</u> 59'21	
min. Earth dist.	-2796 May 04 j 18:15	20° <u>♂</u> 14'51	29.24068 AU	evening set	-2790 Nov 02 j 14:21	3° <u>♂</u> 53'03	
direct	-2796 Jul 24 j 04:17	18° <u>♂</u> 51'36					
evening set	-2796 Oct 20 j 08:16	20° <u>♂</u> 45'58		conjunction	-2790 Nov 17 j 18:07	4° <u>♂</u> 27'13	1°30'35
				minimum elong	-2790 Nov 17 j 18:07	4° <u>♂</u> 27'13	1°30'33
conjunction	-2796 Nov 04 j 11:06	21° <u>♂</u> 20'03	1°48'33	max. Earth dist.	-2790 Nov 17 j 22:50	4° <u>♂</u> 27'40	31.18888 AU
minimum elong	-2796 Nov 04 j 11:07	21° <u>♂</u> 20'03	1°48'32	morning rise	-2790 Dec 02 j 22:36	5° <u>♂</u> 01'30	
max. Earth dist.	-2796 Nov 04 j 08:50	21° <u>♂</u> 19'50	31.23606 AU	retrograde	-2789 Mar 02 j 00:47	6° <u>♂</u> 57'19	
morning rise	-2796 Nov 19 j 14:08	21° <u>♂</u> 54'10		opposition	-2789 May 21 j 11:46	5° <u>♂</u> 33'52	1°34'55
retrograde	-2795 Feb 16 j 03:47	23° <u>♂</u> 49'22		min. Earth dist.	-2789 May 21 j 06:06	5° <u>♂</u> 34'15	29.18671 AU
opposition	-2795 May 07 j 05:35	22° <u>♂</u> 26'26	1°54'35	direct	-2789 Aug 09 j 10:20	4° <u>♂</u> 10'39	
min. Earth dist.	-2795 May 07 j 06:35	22° <u>♂</u> 26'22	29.23328 AU	evening set	-2789 Nov 04 j 23:22	6° <u>♂</u> 04'16	
direct	-2795 Jul 26 j 14:50	21° <u>♂</u> 03'05					
evening set	-2795 Oct 22 j 17:15	22° <u>♂</u> 57'19		conjunction	-2789 Nov 20 j 03:11	6° <u>♂</u> 38'28	1°27'05
				minimum elong	-2789 Nov 20 j 03:11	6° <u>♂</u> 38'28	1°27'02
conjunction	-2795 Nov 06 j 20:22	23° <u>♂</u> 31'25	1°45'55	max. Earth dist.	-2789 Nov 20 j 08:10	6° <u>♂</u> 38'56	31.18327 AU
minimum elong	-2795 Nov 06 j 20:23	23° <u>♂</u> 31'25	1°45'53	morning rise	-2789 Dec 05 j 08:07	7° <u>♂</u> 12'47	
max. Earth dist.	-2795 Nov 06 j 19:51	23° <u>♂</u> 31'22	31.22809 AU	retrograde	-2788 Mar 03 j 13:55	9° <u>♂</u> 08'44	
morning rise	-2795 Nov 21 j 23:28	24° <u>♂</u> 05'34		opposition	-2788 May 23 j 00:58	7° <u>♂</u> 45'14	1°31'07
retrograde	-2794 Feb 18 j 13:06	26° <u>♂</u> 00'52		min. Earth dist.	-2788 May 22 j 18:52	7° <u>♂</u> 45'39	29.18136 AU
opposition	-2794 May 09 j 18:42	24° <u>♂</u> 37'50	1°51'42	direct	-2788 Aug 10 j 21:27	6° <u>♂</u> 22'06	
min. Earth dist.	-2794 May 09 j 19:19	24° <u>♂</u> 37'48	29.22475 AU	evening set	-2788 Nov 06 j 08:24	8° <u>♂</u> 15'38	
direct	-2794 Jul 29 j 02:44	23° <u>♂</u> 14'29					
evening set	-2794 Oct 25 j 02:24	25° <u>♂</u> 08'36		conjunction	-2788 Nov 21 j 12:35	8° <u>♂</u> 49'52	1°23'28
				minimum elong	-2788 Nov 21 j 12:36	8° <u>♂</u> 49'52	1°23'26
conjunction	-2794 Nov 09 j 05:28	25° <u>♂</u> 42'43	1°43'08	max. Earth dist.	-2788 Nov 21 j 19:36	8° <u>♂</u> 50'32	31.17809 AU
minimum elong	-2794 Nov 09 j 05:28	25° <u>♂</u> 42'43	1°43'06	morning rise	-2788 Dec 06 j 17:43	9° <u>♂</u> 24'13	
max. Earth dist.	-2794 Nov 09 j 04:56	25° <u>♂</u> 42'40	31.21940 AU	retrograde	-2787 Mar 06 j 01:10	11° <u>♂</u> 20'19	
morning rise	-2794 Nov 24 j 08:56	26° <u>♂</u> 16'52		opposition	-2787 May 25 j 14:05	9° <u>♂</u> 56'47	1°27'11
retrograde	-2793 Feb 21 j 01:18	28° <u>♂</u> 12'16		min. Earth dist.	-2787 May 25 j 06:47	9° <u>♂</u> 57'17	29.17607 AU
opposition	-2793 May 12 j 07:34	26° <u>♂</u> 49'08	1°48'39	direct	-2787 Aug 13 j 10:11	8° <u>♂</u> 33'43	
min. Earth dist.	-2793 May 12 j 06:30	26° <u>♂</u> 49'12	29.21589 AU	evening set	-2787 Nov 08 j 17:39	10° <u>♂</u> 27'12	
direct	-2793 Jul 31 j 12:47	25° <u>♂</u> 25'47					
evening set	-2793 Oct 27 j 11:23	27° <u>♂</u> 19'46		conjunction	-2787 Nov 23 j 21:54	11° <u>♂</u> 01'27	1°19'43
				minimum elong	-2787 Nov 23 j 21:55	11° <u>♂</u> 01'27	1°19'39
conjunction	-2793 Nov 11 j 14:38	27° <u>♂</u> 53'54	1°40'13	max. Earth dist.	-2787 Nov 24 j 04:47	11° <u>♂</u> 02'06	31.17279 AU
minimum elong	-2793 Nov 11 j 14:39	27° <u>♂</u> 53'54	1°40'10	morning rise	-2787 Dec 09 j 03:35	11° <u>♂</u> 35'52	
max. Earth dist.	-2793 Nov 11 j 15:44	27° <u>♂</u> 54'00	31.21057 AU	retrograde	-2786 Mar 08 j 13:43	13° <u>♂</u> 32'06	
morning rise	-2793 Nov 26 j 18:15	28° <u>♂</u> 28'05		opposition	-2786 May 28 j 03:16	12° <u>♂</u> 08'32	1°23'06
	-2792 Jan 16 j 14:38	0° <u>♂</u> 00'		min. Earth dist.	-2786 May 27 j 19:11	12° <u>♂</u> 09'05	29.17051 AU
retrograde	-2792 Feb 23 j 12:01	0° <u>♂</u> 23'34		direct	-2786 Aug 15 j 20:26	10° <u>♂</u> 45'32	
	-2792 Apr 02 j 19:32	30° <u>♂</u> 00'		evening set	-2786 Nov 11 j 02:54	12° <u>♂</u> 38'57	
opposition	-2792 May 13 j 20:46	29° <u>♂</u> 00'20	1°45'27				
min. Earth dist.	-2792 May 13 j 19:31	29° <u>♂</u> 00'25	29.20727 AU	conjunction	-2786 Nov 26 j 07:31	13° <u>♂</u> 13'14	1°15'51
direct	-2792 Aug 02 j 00:06	27° <u>♂</u> 36'59		minimum elong	-2786 Nov 26 j 07:31	13° <u>♂</u> 13'14	1°15'48
evening set	-2792 Oct 28 j 20:19	29° <u>♂</u> 30'52		max. Earth dist.	-2786 Nov 26 j 16:03	13° <u>♂</u> 14'03	31.16677 AU
	-2792 Nov 10 j 18:58	0° <u>♂</u> 00'		morning rise	-2786 Dec 11 j 13:23	13° <u>♂</u> 47'41	
					-2785 Jan 17 j 10:33	15° <u>♂</u> 00'	
conjunction	-2792 Nov 12 j 23:40	0° <u>♂</u> 05'00	1°37'09	retrograde	-2785 Mar 10 j 23:55	15° <u>♂</u> 44'03	
minimum elong	-2792 Nov 12 j 23:41	0° <u>♂</u> 05'00	1°37'06		-2785 May 05 j 06:59	15° <u>♂</u> 00'	
max. Earth dist.	-2792 Nov 13 j 01:48	0° <u>♂</u> 05'12	31.20244 AU	opposition	-2785 May 30 j 16:26	14° <u>♂</u> 20'27	1°18'55
morning rise	-2792 Nov 28 j 03:36	0° <u>♂</u> 39'13		min. Earth dist.	-2785 May 30 j 08:06	14° <u>♂</u> 21'01	29.16394 AU
retrograde	-2791 Feb 25 j 00:55	2° <u>♂</u> 34'48		direct	-2785 Aug 18 j 08:20	12° <u>♂</u> 57'31	

Attention, astronomical year style is used: The year -2785 in astronomical counting style is the year 2786 BCE in historical counting style.

evening set	-2785 Nov 13 j 12:23	14° \mathcal{M} .50'53			-2778 Jan 18 j 07:30	0° \mathcal{X}	
	-2785 Nov 17 j 14:31	15° \mathcal{M} .		retrograde	-2778 Mar 26 j 16:03	1° \mathcal{X} 09'37	
					-2778 Jun 06 j 13:17	30° $\mathcal{R}\mathcal{M}$.	
conjunction	-2785 Nov 28 j 17:09	15° \mathcal{M} .25'11	1°11'52	opposition	-2778 Jun 15 j 12:26	29° \mathcal{M} .45'27	0°46'41
minimum elong	-2785 Nov 28 j 17:09	15° \mathcal{M} .25'11	1°11'48	min. Earth dist.	-2778 Jun 14 j 22:20	29° \mathcal{M} .46'24	29.09378 AU
max. Earth dist.	-2785 Nov 29 j 01:30	15° \mathcal{M} .25'59	31.15979 AU	direct	-2778 Sep 02 j 15:50	28° \mathcal{M} .22'33	
morning rise	-2785 Dec 13 j 23:31	15° \mathcal{M} .59'40			-2778 Nov 21 j 05:25	0° \mathcal{X}	
retrograde	-2784 Mar 12 j 13:17	17° \mathcal{M} .56'11		evening set	-2778 Nov 28 j 06:35	0° \mathcal{X} 15'23	
opposition	-2784 Jun 01 j 05:43	16° \mathcal{M} .32'32	1°14'36				
min. Earth dist.	-2784 May 31 j 19:59	16° \mathcal{M} .33'12	29.15629 AU	conjunction	-2778 Dec 13 j 13:34	0° \mathcal{X} 49'54	0°41'26
direct	-2784 Aug 19 j 18:34	15° \mathcal{M} .09'38		minimum elong	-2778 Dec 13 j 13:34	0° \mathcal{X} 49'54	0°41'22
evening set	-2784 Nov 14 j 21:45	17° \mathcal{M} .02'55		max. Earth dist.	-2778 Dec 14 j 03:25	0° \mathcal{X} 51'12	31.08899 AU
				morning rise	-2778 Dec 28 j 23:04	1° \mathcal{X} 24'40	
conjunction	-2784 Nov 30 j 02:52	17° \mathcal{M} .37'16	1°07'47	retrograde	-2777 Mar 29 j 04:47	3° \mathcal{X} 21'53	
minimum elong	-2784 Nov 30 j 02:52	17° \mathcal{M} .37'16	1°07'44	min. Earth dist.	-2777 Jun 17 j 10:21	1° \mathcal{X} 58'40	29.08499 AU
max. Earth dist.	-2784 Nov 30 j 12:15	17° \mathcal{M} .38'09	31.15140 AU	opposition	-2777 Jun 18 j 01:25	1° \mathcal{X} 57'39	0°41'45
morning rise	-2784 Dec 15 j 09:35	18° \mathcal{M} .11'47		direct	-2777 Sep 05 j 02:14	0° \mathcal{X} 34'47	
retrograde	-2783 Mar 15 j 00:29	20° \mathcal{M} .08'26		evening set	-2777 Nov 30 j 16:06	2° \mathcal{X} 27'33	
opposition	-2783 Jun 03 j 19:06	18° \mathcal{M} .44'43	1°10'11				
min. Earth dist.	-2783 Jun 03 j 09:43	18° \mathcal{M} .45'21	29.14715 AU	conjunction	-2777 Dec 15 j 23:35	3° \mathcal{X} 02'07	0°36'47
direct	-2783 Aug 22 j 05:44	17° \mathcal{M} .21'50		minimum elong	-2777 Dec 15 j 23:35	3° \mathcal{X} 02'07	0°36'42
evening set	-2783 Nov 17 j 07:17	19° \mathcal{M} .15'02		max. Earth dist.	-2777 Dec 16 j 15:21	3° \mathcal{X} 03'36	31.08065 AU
				morning rise	-2777 Dec 31 j 09:26	3° \mathcal{X} 36'56	
conjunction	-2783 Dec 02 j 12:43	19° \mathcal{M} .49'24	1°03'36	retrograde	-2776 Mar 30 j 15:35	5° \mathcal{X} 34'16	
minimum elong	-2783 Dec 02 j 12:44	19° \mathcal{M} .49'24	1°03'32	opposition	-2776 Jun 19 j 14:29	4° \mathcal{X} 09'59	0°36'45
max. Earth dist.	-2783 Dec 02 j 22:37	19° \mathcal{M} .50'21	31.14173 AU	min. Earth dist.	-2776 Jun 18 j 22:50	4° \mathcal{X} 11'03	29.07704 AU
morning rise	-2783 Dec 17 j 19:53	20° \mathcal{M} .23'58		direct	-2776 Sep 06 j 14:39	2° \mathcal{X} 47'10	
retrograde	-2782 Mar 17 j 13:39	22° \mathcal{M} .20'42		evening set	-2776 Dec 02 j 01:44	4° \mathcal{X} 39'53	
opposition	-2782 Jun 06 j 08:06	20° \mathcal{M} .56'55	1°05'39				
min. Earth dist.	-2782 Jun 05 j 21:10	20° \mathcal{M} .57'39	29.13678 AU	conjunction	-2776 Dec 17 j 09:32	5° \mathcal{X} 14'29	0°32'05
direct	-2782 Aug 24 j 17:02	19° \mathcal{M} .34'02		minimum elong	-2776 Dec 17 j 09:32	5° \mathcal{X} 14'29	0°32'01
evening set	-2782 Nov 19 j 16:48	21° \mathcal{M} .27'09		max. Earth dist.	-2776 Dec 18 j 01:30	5° \mathcal{X} 15'59	31.07318 AU
				morning rise	-2775 Jan 01 j 19:59	5° \mathcal{X} 49'20	
conjunction	-2782 Dec 04 j 22:29	22° \mathcal{M} .01'33	0°59'20	retrograde	-2775 Apr 02 j 05:39	7° \mathcal{X} 46'48	
minimum elong	-2782 Dec 04 j 22:29	22° \mathcal{M} .01'33	0°59'16	min. Earth dist.	-2775 Jun 21 j 10:20	6° \mathcal{X} 23'38	29.06977 AU
max. Earth dist.	-2782 Dec 05 j 08:45	22° \mathcal{M} .02'31	31.13087 AU	opposition	-2775 Jun 22 j 03:30	6° \mathcal{X} 22'28	0°31'41
morning rise	-2782 Dec 20 j 06:09	22° \mathcal{M} .36'09		direct	-2775 Sep 09 j 01:14	4° \mathcal{X} 59'41	
retrograde	-2781 Mar 20 j 02:11	24° \mathcal{M} .33'00		evening set	-2775 Dec 04 j 11:36	6° \mathcal{X} 52'23	
opposition	-2781 Jun 08 j 21:21	23° \mathcal{M} .09'05	1°01'02				
min. Earth dist.	-2781 Jun 08 j 10:46	23° \mathcal{M} .09'48	29.12561 AU	conjunction	-2775 Dec 19 j 19:47	7° \mathcal{X} 27'00	0°27'19
direct	-2781 Aug 27 j 02:48	21° \mathcal{M} .46'12		minimum elong	-2775 Dec 19 j 19:47	7° \mathcal{X} 27'00	0°27'14
evening set	-2781 Nov 22 j 02:03	23° \mathcal{M} .39'14		max. Earth dist.	-2775 Dec 20 j 12:50	7° \mathcal{X} 28'37	31.06596 AU
				morning rise	-2774 Jan 04 j 06:41	8° \mathcal{X} 01'55	
conjunction	-2781 Dec 07 j 08:10	24° \mathcal{M} .13'39	0°54'58	retrograde	-2774 Apr 04 j 16:08	9° \mathcal{X} 59'30	
minimum elong	-2781 Dec 07 j 08:10	24° \mathcal{M} .13'39	0°54'54	opposition	-2774 Jun 24 j 16:26	8° \mathcal{X} 35'08	0°26'34
max. Earth dist.	-2781 Dec 07 j 19:57	24° \mathcal{M} .14'46	31.11964 AU	min. Earth dist.	-2774 Jun 23 j 23:36	8° \mathcal{X} 36'17	29.06259 AU
morning rise	-2781 Dec 22 j 16:10	24° \mathcal{M} .48'17		direct	-2774 Sep 11 j 11:53	7° \mathcal{X} 12'24	
retrograde	-2780 Mar 21 j 14:22	26° \mathcal{M} .45'13		evening set	-2774 Dec 06 j 21:32	9° \mathcal{X} 05'04	
opposition	-2780 Jun 10 j 10:26	25° \mathcal{M} .21'13	0°56'20				
min. Earth dist.	-2780 Jun 09 j 21:59	25° \mathcal{M} .22'03	29.11432 AU	conjunction	-2774 Dec 22 j 06:08	9° \mathcal{X} 39'43	0°22'31
direct	-2780 Aug 28 j 15:52	23° \mathcal{M} .58'19		minimum elong	-2774 Dec 22 j 06:08	9° \mathcal{X} 39'43	0°22'27
evening set	-2780 Nov 23 j 11:37	25° \mathcal{M} .51'16		max. Earth dist.	-2774 Dec 22 j 23:52	9° \mathcal{X} 41'24	31.05878 AU
				morning rise	-2773 Jan 06 j 17:28	10° \mathcal{X} 14'40	
conjunction	-2780 Dec 08 j 17:54	26° \mathcal{M} .25'43	0°50'32	retrograde	-2773 Apr 07 j 05:11	12° \mathcal{X} 12'22	
minimum elong	-2780 Dec 08 j 17:55	26° \mathcal{M} .25'43	0°50'28	min. Earth dist.	-2773 Jun 26 j 11:04	10° \mathcal{X} 49'14	29.05513 AU
max. Earth dist.	-2780 Dec 09 j 05:43	26° \mathcal{M} .26'50	31.10856 AU	opposition	-2773 Jun 27 j 05:24	10° \mathcal{X} 47'59	0°21'24
morning rise	-2780 Dec 24 j 02:30	27° \mathcal{M} .00'24		direct	-2773 Sep 13 j 22:29	9° \mathcal{X} 25'15	
retrograde	-2779 Mar 24 j 04:28	28° \mathcal{M} .57'25		evening set	-2773 Dec 09 j 07:34	11° \mathcal{X} 17'54	
opposition	-2779 Jun 12 j 23:29	27° \mathcal{M} .33'19	0°51'33				
min. Earth dist.	-2779 Jun 12 j 10:44	27° \mathcal{M} .34'11	29.10366 AU	conjunction	-2773 Dec 24 j 16:27	11° \mathcal{X} 52'35	0°17'40
direct	-2779 Aug 31 j 03:03	26° \mathcal{M} .10'25		minimum elong	-2773 Dec 24 j 16:27	11° \mathcal{X} 52'35	0°17'35
evening set	-2779 Nov 25 j 21:00	28° \mathcal{M} .03'17		max. Earth dist.	-2773 Dec 25 j 10:21	11° \mathcal{X} 54'17	31.05093 AU
				morning rise	-2772 Jan 09 j 04:21	12° \mathcal{X} 27'34	
conjunction	-2779 Dec 11 j 03:48	28° \mathcal{M} .37'47	0°46'01	retrograde	-2772 Apr 08 j 17:59	14° \mathcal{X} 25'24	
minimum elong	-2779 Dec 11 j 03:48	28° \mathcal{M} .37'47	0°45'56	opposition	-2772 Jun 28 j 18:37	13° \mathcal{X} 00'57	0°16'13
max. Earth dist.	-2779 Dec 11 j 17:40	28° \mathcal{M} .39'06	31.09830 AU	min. Earth dist.	-2772 Jun 28 j 00:55	13° \mathcal{X} 02'10	29.04692 AU
morning rise	-2779 Dec 26 j 12:42	29° \mathcal{M} .12'30		direct	-2772 Sep 15 j 07:42	11° \mathcal{X} 38'15	

Attention, astronomical year style is used: The year -2772 in astronomical counting style is the year 2773 BCE in historical counting style.

evening set	-2772 Dec 10 j 17:45	13°♊30'51		max. Earth dist.	-2766 Jan 07 j 05:46	25°♊12'16	30.98759 AU
				morning rise	-2766 Jan 21 j 23:45	25°♊45'31	
conjunction	-2772 Dec 26 j 03:10	14°♊05'34	0°12'49	retrograde	-2766 Apr 23 j 01:09	27°♊43'44	
minimum elong	-2772 Dec 26 j 03:10	14°♊05'34	0°12'45	opposition	-2766 Jul 12 j 23:37	26°♊18'47	-0°15'12
behind sun begin	-2772 Dec 25 j 23:04	14°♊05'12		min. Earth dist.	-2766 Jul 12 j 02:12	26°♊20'15	28.98290 AU
behind sun end	-2772 Dec 26 j 07:16	14°♊05'57		direct	-2766 Sep 29 j 06:53	24°♊55'53	
max. Earth dist.	-2772 Dec 26 j 22:07	14°♊07'22	31.04222 AU	evening set	-2766 Dec 24 j 08:03	26°♊48'15	
morning rise	-2771 Jan 10 j 15:26	14°♊40'36					
retrograde	-2771 Apr 11 j 07:10	16°♊38'31		conjunction	-2765 Jan 08 j 19:50	27°♊23'09	-0°16'37
opposition	-2771 Jul 01 j 07:30	15°♊14'00	0°10'59	minimum elong	-2765 Jan 08 j 19:50	27°♊23'09	0°16'41
min. Earth dist.	-2771 Jun 30 j 12:33	15°♊15'18	29.03758 AU	max. Earth dist.	-2765 Jan 09 j 17:43	27°♊25'13	30.97796 AU
direct	-2771 Sep 17 j 20:30	13°♊51'17		morning rise	-2765 Jan 24 j 11:07	27°♊58'25	
evening set	-2771 Dec 13 j 04:09	15°♊43'51		retrograde	-2765 Apr 25 j 11:46	29°♊56'43	
				opposition	-2765 Jul 15 j 12:20	28°♊31'43	-0°20'24
conjunction	-2771 Dec 28 j 13:49	16°♊18'37	0°07'56	min. Earth dist.	-2765 Jul 14 j 15:04	28°♊33'10	28.97398 AU
minimum elong	-2771 Dec 28 j 13:49	16°♊18'37	0°07'51	direct	-2765 Oct 01 j 17:43	27°♊08'48	
behind sun begin	-2771 Dec 28 j 08:02	16°♊18'05		evening set	-2765 Dec 26 j 18:28	29°♊01'10	
behind sun end	-2771 Dec 28 j 19:37	16°♊19'08					
max. Earth dist.	-2771 Dec 29 j 08:05	16°♊20'20	31.03227 AU	conjunction	-2764 Jan 11 j 06:44	29°♊36'06	-0°21'28
morning rise	-2770 Jan 13 j 02:46	16°♊53'41		minimum elong	-2764 Jan 11 j 06:44	29°♊36'06	0°21'33
retrograde	-2770 Apr 13 j 21:40	18°♊51'40		max. Earth dist.	-2764 Jan 12 j 05:30	29°♊38'15	30.96979 AU
opposition	-2770 Jul 03 j 20:34	17°♊27'05	0°05'45		-2764 Jan 21 j 19:50	0°♊	
min. Earth dist.	-2770 Jul 03 j 01:59	17°♊28'21	29.02710 AU	morning rise	-2764 Jan 26 j 22:29	0°♊11'24	
direct	-2770 Sep 20 j 07:09	16°♊04'19		retrograde	-2764 Apr 27 j 00:51	2°♊09'47	
evening set	-2770 Dec 15 j 14:20	17°♊56'50		min. Earth dist.	-2764 Jul 16 j 01:59	0°♊46'20	28.96644 AU
				opposition	-2764 Jul 17 j 00:54	0°♊44'45	-0°25'34
conjunction	-2770 Dec 31 j 00:35	18°♊31'38	0°03'03		-2764 Aug 14 j 14:09	30°♊	
minimum elong	-2770 Dec 31 j 00:34	18°♊31'38	0°02'59	direct	-2764 Oct 03 j 04:19	29°♊21'51	
behind sun begin	-2770 Dec 30 j 18:10	18°♊31'03			-2764 Nov 19 j 18:22	0°♊	
behind sun end	-2770 Dec 31 j 06:59	18°♊32'13		evening set	-2764 Dec 28 j 05:14	1°♊14'14	
max. Earth dist.	-2770 Dec 31 j 20:19	18°♊33'30	31.02126 AU				
morning rise	-2769 Jan 15 j 13:49	19°♊06'44		conjunction	-2763 Jan 12 j 17:49	1°♊49'13	-0°26'17
retrograde	-2769 Apr 16 j 09:35	21°♊04'47		minimum elong	-2763 Jan 12 j 17:49	1°♊49'13	0°26'21
opposition	-2769 Jul 06 j 09:27	19°♊40'06	0°00'30	max. Earth dist.	-2763 Jan 13 j 16:49	1°♊51'23	30.96276 AU
min. Earth dist.	-2769 Jul 05 j 14:03	19°♊41'25	29.01565 AU	morning rise	-2763 Jan 28 j 10:08	2°♊24'32	
desc. node	-2769 Aug 10 j 23:30	18°♊46'15		retrograde	-2763 Apr 29 j 13:26	4°♊23'02	
direct	-2769 Sep 22 j 19:56	18°♊17'18		opposition	-2763 Jul 19 j 13:27	2°♊57'59	-0°30'43
evening set	-2769 Dec 18 j 00:45	20°♊09'46		min. Earth dist.	-2763 Jul 18 j 15:07	2°♊59'31	28.96004 AU
				direct	-2763 Oct 05 j 12:56	1°♊35'06	
conjunction	-2768 Jan 02 j 11:15	20°♊44'35	-0°01'59	evening set	-2763 Dec 30 j 16:00	3°♊27'31	
minimum elong	-2768 Jan 02 j 11:15	20°♊44'35	0°02'05				
behind sun begin	-2768 Jan 02 j 04:49	20°♊44'00		conjunction	-2762 Jan 15 j 05:10	4°♊02'31	-0°31'05
behind sun end	-2768 Jan 02 j 17:41	20°♊45'10		minimum elong	-2762 Jan 15 j 05:10	4°♊02'31	0°31'10
max. Earth dist.	-2768 Jan 03 j 06:32	20°♊46'24	31.00973 AU	max. Earth dist.	-2762 Jan 16 j 05:25	4°♊04'49	30.95681 AU
morning rise	-2768 Jan 18 j 01:09	21°♊19'44		morning rise	-2762 Jan 30 j 21:50	4°♊37'53	
retrograde	-2768 Apr 17 j 23:30	23°♊17'50		retrograde	-2762 May 02 j 02:39	6°♊36'28	
opposition	-2768 Jul 07 j 22:20	21°♊53'02	-0°04'44	min. Earth dist.	-2762 Jul 22 j 02:15	5°♊13'04	28.95440 AU
min. Earth dist.	-2768 Jul 07 j 02:31	21°♊54'24	29.00417 AU	opposition	-2762 Jul 22 j 01:55	5°♊11'26	-0°35'49
direct	-2768 Sep 24 j 06:55	20°♊30'12		direct	-2762 Oct 08 j 01:04	3°♊48'35	
evening set	-2768 Dec 19 j 11:01	22°♊22'36		evening set	-2761 Jan 02 j 02:59	5°♊41'02	
conjunction	-2767 Jan 03 j 22:03	22°♊57'28	-0°06'53	conjunction	-2761 Jan 17 j 16:21	6°♊16'04	-0°35'50
minimum elong	-2767 Jan 03 j 22:04	22°♊57'28	0°06'58	minimum elong	-2761 Jan 17 j 16:21	6°♊16'04	0°35'55
behind sun begin	-2767 Jan 03 j 16:05	22°♊56'55		max. Earth dist.	-2761 Jan 18 j 16:04	6°♊18'18	30.95135 AU
behind sun end	-2767 Jan 04 j 04:03	22°♊58'00		morning rise	-2761 Feb 02 j 09:38	6°♊51'29	
max. Earth dist.	-2767 Jan 04 j 18:56	22°♊59'26	30.99828 AU	retrograde	-2761 May 04 j 17:15	8°♊50'10	
morning rise	-2767 Jan 19 j 12:22	23°♊32'38		opposition	-2761 Jul 24 j 14:35	7°♊25'07	-0°40'53
retrograde	-2767 Apr 20 j 11:15	25°♊30'48		min. Earth dist.	-2761 Jul 23 j 15:20	7°♊26'44	28.94915 AU
opposition	-2767 Jul 10 j 11:07	24°♊05'55	-0°09'58	direct	-2761 Oct 10 j 10:39	6°♊02'18	
min. Earth dist.	-2767 Jul 09 j 15:01	24°♊07'18	28.99301 AU	evening set	-2760 Jan 04 j 14:05	7°♊54'47	
direct	-2767 Sep 26 j 19:51	22°♊43'02					
evening set	-2767 Dec 21 j 21:32	24°♊35'25		conjunction	-2760 Jan 20 j 04:02	8°♊29'52	-0°40'32
				minimum elong	-2760 Jan 20 j 04:02	8°♊29'52	0°40'37
conjunction	-2766 Jan 06 j 08:55	25°♊10'18	-0°11'45	max. Earth dist.	-2760 Jan 21 j 05:06	8°♊32'14	30.94602 AU
minimum elong	-2766 Jan 06 j 08:55	25°♊10'18	0°11'51	morning rise	-2760 Feb 04 j 21:36	9°♊05'18	
behind sun begin	-2766 Jan 06 j 04:23	25°♊09'53		retrograde	-2760 May 06 j 06:05	11°♊04'05	
behind sun end	-2766 Jan 06 j 13:26	25°♊10'43		min. Earth dist.	-2760 Jul 25 j 03:21	9°♊40'41	28.94364 AU

Attention, astronomical year style is used: The year -2760 in astronomical counting style is the year 2761 BCE in historical counting style.

opposition	-2760 Jul 26 j 03:06	9°33'03	-0°45'52	morning rise	-2753 Feb 20 j 12:44	24°34'14	
direct	-2760 Oct 11 j 22:23	8°31'13		retrograde	-2753 May 23 j 02:19	26°34'12	
evening set	-2759 Jan 06 j 01:30	10°30'45		opposition	-2753 Aug 11 j 17:39	25°31'48	-1°18'34
				min. Earth dist.	-2753 Aug 10 j 17:24	25°31'30	28.89005 AU
conjunction	-2759 Jan 21 j 15:45	10°34'52	-0°45'11	direct	-2753 Oct 28 j 07:46	23°35'40	
minimum elong	-2759 Jan 21 j 15:45	10°34'52	0°45'15	evening set	-2752 Jan 22 j 11:10	25°34'16	
max. Earth dist.	-2759 Jan 22 j 15:51	10°34'09	30.94022 AU				
morning rise	-2759 Feb 06 j 09:57	11°31'21		conjunction	-2752 Feb 07 j 04:19	26°32'33	-1°15'26
retrograde	-2759 May 08 j 21:29	13°31'12		minimum elong	-2752 Feb 07 j 04:19	26°32'33	1°15'31
opposition	-2759 Jul 28 j 15:43	11°35'09	-0°50'48	max. Earth dist.	-2752 Feb 08 j 05:12	26°32'45	30.88632 AU
min. Earth dist.	-2759 Jul 27 j 16:08	11°35'46	28.93751 AU	morning rise	-2752 Feb 23 j 01:33	26°35'13	
direct	-2759 Oct 14 j 09:21	10°33'19		retrograde	-2752 May 24 j 15:31	28°35'13	
evening set	-2758 Jan 08 j 13:00	12°32'53		min. Earth dist.	-2752 Aug 12 j 06:03	27°33'26	28.88464 AU
				opposition	-2752 Aug 13 j 05:47	27°31'47	-1°22'49
conjunction	-2758 Jan 24 j 03:46	12°35'02	-0°49'45	direct	-2752 Oct 29 j 16:55	26°30'36	
minimum elong	-2758 Jan 24 j 03:46	12°35'02	0°49'50	evening set	-2751 Jan 23 j 23:04	28°30'15	
max. Earth dist.	-2758 Jan 25 j 04:41	13°30'23	30.93341 AU				
morning rise	-2758 Feb 08 j 22:15	13°33'32		conjunction	-2751 Feb 08 j 16:49	28°33'34	-1°19'22
retrograde	-2758 May 11 j 10:51	15°32'26		minimum elong	-2751 Feb 08 j 16:49	28°33'34	1°19'26
min. Earth dist.	-2758 Jul 30 j 05:00	14°30'57	28.93018 AU	max. Earth dist.	-2751 Feb 09 j 19:01	28°39'02	30.88148 AU
opposition	-2758 Jul 31 j 04:11	14°30'21	-0°55'40	morning rise	-2751 Feb 24 j 14:18	29°32'15	
direct	-2758 Oct 16 j 22:36	12°34'30			-2751 Mar 19 j 14:52	0°	
evening set	-2757 Jan 11 j 00:36	14°33'04		retrograde	-2751 May 27 j 04:13	1°11'16	
					-2751 Aug 07 j 05:58	30°38'	
conjunction	-2757 Jan 26 j 15:44	15°31'15	-0°54'16	opposition	-2751 Aug 15 j 17:47	29°34'50	-1°26'57
minimum elong	-2757 Jan 26 j 15:44	15°31'15	0°54'20	min. Earth dist.	-2751 Aug 14 j 17:27	29°34'32	28.88040 AU
max. Earth dist.	-2757 Jan 27 j 15:54	15°31'42	30.92568 AU	direct	-2751 Nov 01 j 04:31	28°32'39	
morning rise	-2757 Feb 11 j 10:45	15°34'47			-2750 Jan 19 j 09:25	0°	
retrograde	-2757 May 14 j 01:13	17°34'43		evening set	-2750 Jan 26 j 11:14	0°15'21	
opposition	-2757 Aug 02 j 16:41	16°32'34	-1°00'26				
min. Earth dist.	-2757 Aug 01 j 16:55	16°32'13	28.92205 AU	conjunction	-2750 Feb 11 j 05:14	0°50'41	-1°23'10
direct	-2757 Oct 19 j 10:12	14°35'40		minimum elong	-2750 Feb 11 j 05:14	0°50'41	1°23'14
evening set	-2756 Jan 13 j 12:06	16°35'14		max. Earth dist.	-2750 Feb 12 j 06:33	0°53'04	30.87782 AU
				morning rise	-2750 Feb 27 j 03:15	1°26'24	
conjunction	-2756 Jan 29 j 03:41	17°32'26	-0°58'41	retrograde	-2750 May 29 j 19:01	3°25'27	
minimum elong	-2756 Jan 29 j 03:40	17°32'26	0°58'46	min. Earth dist.	-2750 Aug 17 j 05:34	2°01'43	28.87735 AU
max. Earth dist.	-2756 Jan 30 j 04:13	17°32'45	30.91710 AU	opposition	-2750 Aug 18 j 05:47	2°00'02	-1°30'57
morning rise	-2756 Feb 13 j 23:09	18°30'21		direct	-2750 Nov 03 j 15:05	0°36'49	
retrograde	-2756 May 15 j 12:42	20°30'58		evening set	-2749 Jan 28 j 23:25	2°29'36	
min. Earth dist.	-2756 Aug 03 j 06:15	18°33'20	28.91333 AU				
opposition	-2756 Aug 04 j 05:10	18°33'44	-1°05'07	conjunction	-2749 Feb 13 j 17:55	3°04'58	-1°26'51
direct	-2756 Oct 20 j 21:57	17°31'24		minimum elong	-2749 Feb 13 j 17:55	3°04'58	1°26'55
evening set	-2755 Jan 14 j 23:47	19°30'52		max. Earth dist.	-2749 Feb 14 j 20:16	3°07'27	30.87508 AU
				morning rise	-2749 Mar 01 j 16:12	3°40'42	
conjunction	-2755 Jan 30 j 15:51	19°34'34	-1°03'01	retrograde	-2749 Jun 01 j 08:20	5°39'47	
minimum elong	-2755 Jan 30 j 15:50	19°34'34	1°03'05	opposition	-2749 Aug 20 j 17:48	4°14'23	-1°34'49
max. Earth dist.	-2755 Jan 31 j 16:36	19°34'54	30.90841 AU	min. Earth dist.	-2749 Aug 19 j 17:56	4°16'03	28.87497 AU
morning rise	-2755 Feb 15 j 11:43	20°31'09		direct	-2749 Nov 06 j 03:25	2°51'12	
retrograde	-2755 May 18 j 02:34	22°31'50		evening set	-2748 Jan 31 j 11:45	4°44'03	
opposition	-2755 Aug 06 j 17:15	20°34'49	-1°09'43				
min. Earth dist.	-2755 Aug 05 j 17:20	20°35'12	28.90477 AU	conjunction	-2748 Feb 16 j 06:38	5°19'27	-1°30'24
direct	-2755 Oct 23 j 09:45	19°32'47		minimum elong	-2748 Feb 16 j 06:37	5°19'27	1°30'28
evening set	-2754 Jan 17 j 11:36	21°31'22		max. Earth dist.	-2748 Feb 17 j 08:09	5°21'51	30.87293 AU
				morning rise	-2748 Mar 03 j 05:23	5°55'12	
conjunction	-2754 Feb 02 j 03:57	21°35'36	-1°07'16	retrograde	-2748 Jun 02 j 23:22	7°54'20	
minimum elong	-2754 Feb 02 j 03:57	21°35'36	1°07'20	min. Earth dist.	-2748 Aug 21 j 05:38	6°30'39	28.87287 AU
max. Earth dist.	-2754 Feb 03 j 04:31	21°35'55	30.89998 AU	opposition	-2748 Aug 22 j 05:47	6°28'58	-1°38'33
morning rise	-2754 Feb 18 j 00:20	22°30'13		direct	-2748 Nov 07 j 14:40	5°05'46	
retrograde	-2754 May 20 j 14:21	24°29'11		evening set	-2747 Feb 02 j 00:28	6°58'43	
min. Earth dist.	-2754 Aug 08 j 06:31	23°30'52	28.89688 AU				
opposition	-2754 Aug 09 j 05:33	23°30'50	-1°14'11	conjunction	-2747 Feb 17 j 19:44	7°34'08	-1°33'49
direct	-2754 Oct 25 j 19:32	21°34'05		minimum elong	-2747 Feb 17 j 19:43	7°34'08	1°33'52
evening set	-2753 Jan 19 j 23:11	23°33'19		max. Earth dist.	-2747 Feb 18 j 21:14	7°36'32	30.87052 AU
				morning rise	-2747 Mar 05 j 18:49	8°09'55	
conjunction	-2753 Feb 04 j 16:05	24°30'35	-1°11'24	retrograde	-2747 Jun 05 j 12:26	10°09'04	
minimum elong	-2753 Feb 04 j 16:05	24°30'35	1°11'28	opposition	-2747 Aug 24 j 17:41	8°43'44	-1°42'07
max. Earth dist.	-2753 Feb 05 j 17:42	24°31'00	30.89255 AU	min. Earth dist.	-2747 Aug 23 j 18:50	8°45'20	28.87025 AU

Attention, astronomical year style is used: The year -2747 in astronomical counting style is the year 2748 BCE in historical counting style.

direct	-2747 Nov 10 j 02:17	7°20'32		minimum elong	-2740 Mar 05 j 17:08	23°18'33	1°53'32
evening set	-2746 Feb 04 j 13:14	9°13'33		max. Earth dist.	-2740 Mar 06 j 16:10	23°20'42	30.83761 AU
				morning rise	-2740 Mar 21 j 18:37	23°54'27	
conjunction	-2746 Feb 20 j 08:57	9°49'01	-1°37'05	retrograde	-2740 Jun 21 j 06:51	25°53'23	
minimum elong	-2746 Feb 20 j 08:57	9°49'01	1°37'09	min. Earth dist.	-2740 Sep 08 j 07:34	24°29'22	28.83742 AU
max. Earth dist.	-2746 Feb 21 j 09:56	9°51'22	30.86751 AU	opposition	-2740 Sep 09 j 03:45	24°27'56	-2°02'33
morning rise	-2746 Mar 08 j 08:22	10°24'49		direct	-2740 Nov 25 j 09:49	23°04'18	
retrograde	-2746 Jun 08 j 03:45	12°23'58		evening set	-2739 Feb 20 j 08:09	24°57'43	
min. Earth dist.	-2746 Aug 26 j 06:18	11°00'17	28.86677 AU				
opposition	-2746 Aug 27 j 05:36	10°58'39	-1°45'33	conjunction	-2739 Mar 08 j 06:40	25°33'19	-1°55'38
direct	-2746 Nov 12 j 14:26	9°35'25		minimum elong	-2739 Mar 08 j 06:40	25°33'19	1°55'41
evening set	-2745 Feb 07 j 02:03	11°28'31		max. Earth dist.	-2739 Mar 09 j 04:37	25°35'22	30.83477 AU
				morning rise	-2739 Mar 24 j 08:35	26°09'13	
conjunction	-2745 Feb 22 j 22:04	12°04'00	-1°40'13	retrograde	-2739 Jun 23 j 21:15	28°08'06	
minimum elong	-2745 Feb 22 j 22:04	12°04'00	1°40'16	opposition	-2739 Sep 11 j 15:02	26°42'40	-2°04'45
max. Earth dist.	-2745 Feb 23 j 22:11	12°06'16	30.86337 AU	min. Earth dist.	-2739 Sep 10 j 18:32	26°44'07	28.83534 AU
morning rise	-2745 Mar 10 j 21:55	12°39'49		direct	-2739 Nov 27 j 20:51	25°18'58	
retrograde	-2745 Jun 10 j 15:52	14°38'59		evening set	-2738 Feb 22 j 21:22	27°12'28	
opposition	-2745 Aug 29 j 17:40	13°13'39	-1°48'48				
min. Earth dist.	-2745 Aug 28 j 19:57	13°15'10	28.86219 AU	conjunction	-2738 Mar 10 j 20:17	27°48'05	-1°57'37
direct	-2745 Nov 15 j 00:46	11°50'22		minimum elong	-2738 Mar 10 j 20:17	27°48'05	1°57'39
evening set	-2744 Feb 09 j 14:55	13°43'31		max. Earth dist.	-2738 Mar 11 j 18:26	27°50'10	30.83326 AU
				morning rise	-2738 Mar 26 j 22:27	28°24'01	
conjunction	-2744 Feb 25 j 11:31	14°19'01	-1°43'12		-2738 May 19 j 20:00	0°	
minimum elong	-2744 Feb 25 j 11:30	14°19'01	1°43'15	retrograde	-2738 Jun 26 j 10:27	0°22'51	
max. Earth dist.	-2744 Feb 26 j 11:46	14°21'18	30.85836 AU		-2738 Aug 03 j 13:21	30°	
morning rise	-2744 Mar 12 j 11:37	14°54'52		min. Earth dist.	-2738 Sep 13 j 07:00	28°58'49	28.83455 AU
	-2744 Mar 14 j 19:59	15°		opposition	-2738 Sep 14 j 02:29	28°57'26	-2°06'46
retrograde	-2744 Jun 12 j 04:16	16°53'59		direct	-2738 Nov 30 j 09:06	27°33'43	
min. Earth dist.	-2744 Aug 30 j 07:16	15°30'11	28.85678 AU	evening set	-2737 Feb 25 j 10:28	29°27'17	
opposition	-2744 Aug 31 j 05:22	15°28'38	-1°51'54		-2737 Mar 12 j 02:36	0°	
	-2744 Sep 17 j 13:16	15°					
direct	-2744 Nov 16 j 13:18	14°05'17		conjunction	-2737 Mar 13 j 09:50	0°02'56	-1°59'24
	-2743 Jan 13 j 03:04	15°		minimum elong	-2737 Mar 13 j 09:49	0°02'56	1°59'27
evening set	-2743 Feb 11 j 04:01	15°58'29		max. Earth dist.	-2737 Mar 14 j 07:37	0°04'58	30.83319 AU
				morning rise	-2737 Mar 29 j 12:19	0°38'52	
conjunction	-2743 Feb 27 j 00:52	16°34'00	-1°46'01	retrograde	-2737 Jun 29 j 01:34	2°37'40	
minimum elong	-2743 Feb 27 j 00:51	16°34'00	1°46'04	opposition	-2737 Sep 16 j 13:48	1°12'17	-2°08'35
max. Earth dist.	-2743 Feb 27 j 23:38	16°36'08	30.85267 AU	min. Earth dist.	-2737 Sep 15 j 17:43	1°13'42	28.83501 AU
morning rise	-2743 Mar 15 j 01:30	17°09'52			-2737 Nov 06 j 21:09	30°	
retrograde	-2743 Jun 14 j 17:07	19°08'57		direct	-2737 Dec 02 j 21:55	29°48'33	
opposition	-2743 Sep 02 j 17:10	17°43'34	-1°54'50		-2737 Dec 28 j 13:01	0°	
min. Earth dist.	-2743 Sep 01 j 20:16	17°45'02	28.85108 AU	evening set	-2736 Feb 27 j 23:58	1°42'12	
direct	-2743 Nov 18 j 22:43	16°20'08					
evening set	-2742 Feb 13 j 16:54	18°13'23		conjunction	-2736 Mar 14 j 23:38	2°17'52	-2°01'01
				minimum elong	-2736 Mar 14 j 23:38	2°17'52	2°01'03
conjunction	-2742 Mar 01 j 14:18	18°48'55	-1°48'40	max. Earth dist.	-2736 Mar 15 j 20:47	2°19'51	30.83400 AU
minimum elong	-2742 Mar 01 j 14:18	18°48'55	1°48'44	morning rise	-2736 Mar 31 j 02:30	2°53'50	
max. Earth dist.	-2742 Mar 02 j 13:49	18°51'08	30.84693 AU	retrograde	-2736 Jun 30 j 13:54	4°52'35	
morning rise	-2742 Mar 17 j 15:05	19°24'47		min. Earth dist.	-2736 Sep 17 j 06:40	3°28'33	28.83619 AU
retrograde	-2742 Jun 17 j 05:05	21°23'49		opposition	-2736 Sep 18 j 01:06	3°27'15	-2°10'12
min. Earth dist.	-2742 Sep 04 j 07:37	19°59'54	28.84555 AU	direct	-2736 Dec 04 j 08:30	2°03'30	
opposition	-2742 Sep 05 j 04:42	19°58'25	-1°57'35	evening set	-2735 Mar 01 j 13:32	3°57'15	
direct	-2742 Nov 21 j 10:32	18°34'55					
evening set	-2741 Feb 16 j 05:59	20°28'13		conjunction	-2735 Mar 17 j 13:44	4°32'56	-2°02'26
				minimum elong	-2735 Mar 17 j 13:44	4°32'56	2°02'29
conjunction	-2741 Mar 04 j 03:38	21°03'46	-1°51'10	max. Earth dist.	-2735 Mar 18 j 10:48	4°34'55	30.83534 AU
minimum elong	-2741 Mar 04 j 03:37	21°03'45	1°51'13	morning rise	-2735 Apr 02 j 16:46	5°08'55	
max. Earth dist.	-2741 Mar 05 j 01:50	21°05'51	30.84177 AU	retrograde	-2735 Jul 03 j 03:35	7°07'36	
morning rise	-2741 Mar 20 j 04:55	21°39'39		opposition	-2735 Sep 20 j 12:20	5°42'20	-2°11'38
retrograde	-2741 Jun 19 j 18:38	23°38'38		min. Earth dist.	-2735 Sep 19 j 17:43	5°43'39	28.83746 AU
opposition	-2741 Sep 07 j 16:16	22°13'12	-2°00'10	direct	-2735 Dec 06 j 20:57	4°18'34	
min. Earth dist.	-2741 Sep 06 j 19:36	22°14'39	28.84097 AU	evening set	-2734 Mar 04 j 03:17	6°12'24	
direct	-2741 Nov 23 j 21:26	20°49'37					
evening set	-2740 Feb 18 j 18:56	22°42'58		conjunction	-2734 Mar 20 j 03:40	6°48'07	-2°03'41
				minimum elong	-2734 Mar 20 j 03:40	6°48'07	2°03'42
conjunction	-2740 Mar 05 j 17:08	23°18'33	-1°53'29	max. Earth dist.	-2734 Mar 20 j 23:01	6°49'55	30.83637 AU

Attention, astronomical year style is used: The year -2734 in astronomical counting style is the year 2735 BCE in historical counting style.

morning rise	-2734 Apr 05 j 07:06	7° H 24'06	conjunction	-2727 Apr 05 j 07:18	22° H 32'56	-2°07'01
retrograde	-2734 Jul 05 j 17:00	9° H 22'44	minimum elong	-2727 Apr 05 j 07:18	22° H 32'56	2°07'02
opposition	-2734 Sep 22 j 23:42	7° H 57'30 -2°12'51	max. Earth dist.	-2727 Apr 05 j 21:21	22° H 34'14	30.83368 AU
min. Earth dist.	-2734 Sep 22 j 06:35	7° H 58'42 28.83832 AU	morning rise	-2727 Apr 21 j 12:31	23° H 08'58	
direct	-2734 Dec 09 j 06:43	6° H 33'41	retrograde	-2727 Jul 21 j 08:36	25° H 06'49	
evening set	-2733 Mar 06 j 16:59	8° H 27'36	opposition	-2727 Oct 08 j 04:41	23° H 41'40	-2°15'42
			min. Earth dist.	-2727 Oct 07 j 16:45	23° H 42'31	28.83631 AU
conjunction	-2733 Mar 22 j 17:56	9° H 03'20 -2°04'44	direct	-2727 Dec 24 j 18:06	22° H 17'22	
minimum elong	-2733 Mar 22 j 17:56	9° H 03'20 2°04'46	evening set	-2726 Mar 22 j 17:53	24° H 11'43	
max. Earth dist.	-2733 Mar 23 j 13:22	9° H 05'09 30.83682 AU				
morning rise	-2733 Apr 07 j 21:29	9° H 39'20	conjunction	-2726 Apr 07 j 21:27	24° H 47'34	-2°06'44
retrograde	-2733 Jul 08 j 04:38	11° H 37'53	minimum elong	-2726 Apr 07 j 21:28	24° H 47'34	2°06'44
opposition	-2733 Sep 25 j 10:54	10° H 12'40 -2°13'52	max. Earth dist.	-2726 Apr 08 j 11:29	24° H 48'53	30.83616 AU
min. Earth dist.	-2733 Sep 24 j 18:10	10° H 13'52 28.83829 AU	morning rise	-2726 Apr 24 j 02:49	25° H 23'37	
direct	-2733 Dec 11 j 19:00	8° H 48'49	retrograde	-2726 Jul 23 j 22:18	27° H 21'22	
evening set	-2732 Mar 08 j 06:54	10° H 42'47	opposition	-2726 Oct 10 j 15:23	25° H 56'16	-2°15'17
			min. Earth dist.	-2726 Oct 10 j 03:00	25° H 57'09	28.83947 AU
conjunction	-2732 Mar 24 j 08:06	11° H 18'32 -2°05'35	direct	-2726 Dec 27 j 06:57	24° H 31'57	
minimum elong	-2732 Mar 24 j 08:06	11° H 18'32 2°05'37	evening set	-2725 Mar 25 j 07:52	26° H 26'22	
max. Earth dist.	-2732 Mar 25 j 01:25	11° H 20'09 30.83643 AU				
morning rise	-2732 Apr 09 j 12:07	11° H 54'33	conjunction	-2725 Apr 10 j 11:39	27° H 02'15	-2°06'15
retrograde	-2732 Jul 09 j 17:22	13° H 53'00	minimum elong	-2725 Apr 10 j 11:39	27° H 02'15	2°06'16
opposition	-2732 Sep 26 j 22:09	12° H 27'48 -2°14'41	max. Earth dist.	-2725 Apr 11 j 00:17	27° H 03'26	30.84011 AU
min. Earth dist.	-2732 Sep 26 j 06:26	12° H 28'55 28.83754 AU	morning rise	-2725 Apr 26 j 17:21	27° H 38'18	
direct	-2732 Dec 13 j 05:47	11° H 03'51	retrograde	-2725 Jul 26 j 11:34	29° H 35'57	
evening set	-2731 Mar 10 j 20:44	12° H 57'53	opposition	-2725 Oct 13 j 02:08	28° H 10'56	-2°14'39
			min. Earth dist.	-2725 Oct 12 j 15:01	28° H 11'44	28.84420 AU
conjunction	-2731 Mar 26 j 22:28	13° H 33'39 -2°06'16	direct	-2725 Dec 29 j 16:50	26° H 46'36	
minimum elong	-2731 Mar 26 j 22:27	13° H 33'39 2°06'17	evening set	-2724 Mar 26 j 21:46	28° H 41'07	
max. Earth dist.	-2731 Mar 27 j 15:55	13° H 35'17 30.83529 AU				
morning rise	-2731 Apr 12 j 02:35	14° H 09'40	conjunction	-2724 Apr 12 j 02:06	29° H 17'01	-2°05'34
retrograde	-2731 Jul 12 j 04:42	16° H 08'00	minimum elong	-2724 Apr 12 j 02:06	29° H 17'01	2°05'34
opposition	-2731 Sep 29 j 09:09	14° H 42'48 -2°15'18	max. Earth dist.	-2724 Apr 12 j 15:00	29° H 18'13	30.84549 AU
min. Earth dist.	-2731 Sep 28 j 18:32	14° H 43'51 28.83616 AU	morning rise	-2724 Apr 28 j 07:53	29° H 53'05	
direct	-2731 Dec 15 j 17:50	13° H 18'47		-2724 May 01 j 12:28	0° Y	
evening set	-2730 Mar 13 j 10:38	15° H 12'52	retrograde	-2724 Jul 27 j 22:55	1° Y 50'38	
			opposition	-2724 Oct 14 j 12:48	0° Y 25'43	-2°13'49
conjunction	-2730 Mar 29 j 12:39	15° H 48'39 -2°06'44	min. Earth dist.	-2724 Oct 14 j 01:54	0° Y 26'30	28.84994 AU
minimum elong	-2730 Mar 29 j 12:39	15° H 48'39 2°06'45		-2724 Oct 29 j 19:57	30° R H	
max. Earth dist.	-2730 Mar 30 j 04:24	15° H 50'07 30.83398 AU	direct	-2724 Dec 31 j 05:08	29° H 01'23	
morning rise	-2730 Apr 14 j 17:09	16° H 24'40		-2723 Mar 01 j 15:45	0° Y	
retrograde	-2730 Jul 14 j 18:25	18° H 22'53	evening set	-2723 Mar 29 j 11:59	0° Y 56'00	
opposition	-2730 Oct 01 j 20:07	16° H 57'41 -2°15'42				
min. Earth dist.	-2730 Oct 01 j 05:38	16° H 58'43 28.83497 AU	conjunction	-2723 Apr 14 j 16:27	1° Y 31'55	-2°04'42
direct	-2730 Dec 18 j 05:11	15° H 33'34	minimum elong	-2723 Apr 14 j 16:27	1° Y 31'55	2°04'42
evening set	-2729 Mar 16 j 00:19	17° H 27'42	max. Earth dist.	-2723 Apr 15 j 03:23	1° Y 32'56	30.85165 AU
			morning rise	-2723 Apr 30 j 22:34	2° Y 08'00	
conjunction	-2729 Apr 01 j 02:45	18° H 03'30 -2°07'02	retrograde	-2723 Jul 30 j 11:25	4° Y 05'27	
minimum elong	-2729 Apr 01 j 02:45	18° H 03'30 2°07'03	opposition	-2723 Oct 16 j 23:27	2° Y 40'38	-2°12'47
max. Earth dist.	-2729 Apr 01 j 18:26	18° H 04'58 30.83293 AU	min. Earth dist.	-2723 Oct 16 j 13:34	2° Y 41'20	28.85633 AU
morning rise	-2729 Apr 17 j 07:27	18° H 39'32	direct	-2722 Jan 02 j 15:13	1° Y 16'18	
retrograde	-2729 Jul 17 j 06:28	20° H 37'38	evening set	-2722 Apr 01 j 02:07	3° Y 11'01	
opposition	-2729 Oct 04 j 07:07	19° H 12'26 -2°15'55				
min. Earth dist.	-2729 Oct 03 j 18:00	19° H 13'22 28.83426 AU	conjunction	-2722 Apr 17 j 07:03	3° Y 46'58	-2°03'38
direct	-2729 Dec 20 j 17:51	17° H 48'14	minimum elong	-2722 Apr 17 j 07:03	3° Y 46'58	2°03'37
evening set	-2728 Mar 17 j 14:12	19° H 42'26	max. Earth dist.	-2722 Apr 17 j 18:07	3° Y 48'00	30.85804 AU
			morning rise	-2722 May 03 j 13:10	4° Y 23'03	
conjunction	-2728 Apr 02 j 17:02	20° H 18'15 -2°07'07	retrograde	-2722 Aug 01 j 22:55	6° Y 20'23	
minimum elong	-2728 Apr 02 j 17:02	20° H 18'15 2°07'07	opposition	-2722 Oct 19 j 10:11	4° Y 55'40	-2°11'32
max. Earth dist.	-2728 Apr 03 j 07:47	20° H 19'38 30.83277 AU	min. Earth dist.	-2722 Oct 19 j 01:32	4° Y 56'17	28.86255 AU
morning rise	-2728 Apr 18 j 22:01	20° H 54'17	direct	-2721 Jan 05 j 02:15	3° Y 31'19	
retrograde	-2728 Jul 18 j 20:30	22° H 52'15	evening set	-2721 Apr 03 j 16:19	5° Y 26'08	
opposition	-2728 Oct 05 j 17:47	21° H 27'04 -2°15'54				
min. Earth dist.	-2728 Oct 05 j 04:19	21° H 28'02 28.83462 AU	conjunction	-2721 Apr 19 j 21:28	6° Y 02'05	-2°02'22
direct	-2728 Dec 22 j 07:03	20° H 02'49	minimum elong	-2721 Apr 19 j 21:28	6° Y 02'05	2°02'22
evening set	-2727 Mar 20 j 04:11	21° H 57'05	max. Earth dist.	-2721 Apr 20 j 06:24	6° Y 02'55	30.86410 AU
			morning rise	-2721 May 06 j 03:56	6° Y 38'11	

Attention, astronomical year style is used: The year -2721 in astronomical counting style is the year 2722 BCE in historical counting style.

retrograde	-2721 Aug 04 j 1:58	8° Υ 35'25		minimum elong	-2714 May 06 j 02:54	21° Υ 45'12	1°48'34
opposition	-2721 Oct 21 j 20:55	7° Υ 10'46	-2°10'06	max. Earth dist.	-2714 May 06 j 04:20	21° Υ 45'20	30.89446 AU
min. Earth dist.	-2721 Oct 21 j 12:46	7° Υ 11'21	28.86820 AU	morning rise	-2714 May 22 j 10:11	22° Υ 21'17	
direct	-2720 Jan 07 j 13:18	5° Υ 46'23		retrograde	-2714 Aug 20 j 01:06	24° Υ 17'19	
evening set	-2720 Apr 05 j 06:41	7° Υ 41'16		opposition	-2714 Nov 05 j 22:23	22° Υ 52'56	-1°54'43
				min. Earth dist.	-2714 Nov 05 j 20:37	22° Υ 53'04	28.89885 AU
conjunction	-2720 Apr 21 j 12:13	8° Υ 17'15	-2°00'56	direct	-2713 Jan 23 j 04:36	21° Υ 28'06	
minimum elong	-2720 Apr 21 j 12:14	8° Υ 17'15	2°00'55	evening set	-2713 Apr 22 j 09:49	23° Υ 23'16	
max. Earth dist.	-2720 Apr 21 j 20:33	8° Υ 18'01	30.86923 AU				
morning rise	-2720 May 07 j 18:44	8° Υ 53'20		conjunction	-2713 May 08 j 17:14	23° Υ 59'19	-1°45'57
retrograde	-2720 Aug 05 j 23:00	10° Υ 50'26		minimum elong	-2713 May 08 j 17:14	23° Υ 59'19	1°45'56
opposition	-2720 Oct 23 j 07:37	9° Υ 25'50	-2°08'27	max. Earth dist.	-2713 May 08 j 19:06	23° Υ 59'30	30.90137 AU
min. Earth dist.	-2720 Oct 23 j 01:21	9° Υ 26'17	28.87284 AU	morning rise	-2713 May 25 j 00:25	24° Υ 35'23	
direct	-2719 Jan 09 j 02:10	8° Υ 01'24		retrograde	-2713 Aug 22 j 11:44	26° Υ 31'16	
evening set	-2719 Apr 07 j 21:03	9° Υ 56'21		opposition	-2713 Nov 08 j 08:48	25° Υ 06'58	-1°51'48
				min. Earth dist.	-2713 Nov 08 j 07:58	25° Υ 07'02	28.90628 AU
conjunction	-2719 Apr 24 j 02:52	10° Υ 32'20	-1°59'19	direct	-2712 Jan 25 j 16:00	23° Υ 42'07	
minimum elong	-2719 Apr 24 j 02:52	10° Υ 32'20	1°59'18	evening set	-2712 Apr 24 j 00:03	25° Υ 37'21	
max. Earth dist.	-2719 Apr 24 j 09:28	10° Υ 32'57	30.87359 AU				
morning rise	-2719 May 10 j 09:35	11° Υ 08'25		conjunction	-2712 May 10 j 07:31	26° Υ 13'24	-1°43'09
retrograde	-2719 Aug 08 j 12:19	13° Υ 05'21		minimum elong	-2712 May 10 j 07:31	26° Υ 13'24	1°43'06
opposition	-2719 Oct 25 j 18:13	11° Υ 40'48	-2°06'38	max. Earth dist.	-2712 May 10 j 07:31	26° Υ 13'24	30.90957 AU
min. Earth dist.	-2719 Oct 25 j 12:03	11° Υ 41'15	28.87674 AU	morning rise	-2712 May 26 j 14:54	26° Υ 49'28	
direct	-2718 Jan 11 j 15:32	10° Υ 16'18		retrograde	-2712 Aug 23 j 23:43	28° Υ 45'13	
evening set	-2718 Apr 10 j 11:14	12° Υ 11'17		opposition	-2712 Nov 09 j 19:01	27° Υ 21'01	-1°48'42
				min. Earth dist.	-2712 Nov 09 j 18:21	27° Υ 21'04	28.91498 AU
conjunction	-2718 Apr 26 j 17:17	12° Υ 47'17	-1°57'31	direct	-2711 Jan 27 j 03:01	25° Υ 56'08	
minimum elong	-2718 Apr 26 j 17:18	12° Υ 47'17	1°57'30	evening set	-2711 Apr 26 j 14:12	27° Υ 51'28	
max. Earth dist.	-2718 Apr 26 j 22:52	12° Υ 47'48	30.87720 AU				
morning rise	-2718 May 13 j 00:07	13° Υ 23'22		conjunction	-2711 May 12 j 21:56	28° Υ 27'32	-1°40'11
retrograde	-2718 Aug 10 j 24:00	15° Υ 20'08		minimum elong	-2711 May 12 j 21:56	28° Υ 27'32	1°40'09
opposition	-2718 Oct 28 j 04:54	13° Υ 55'36	-2°04'37	max. Earth dist.	-2711 May 12 j 21:55	28° Υ 27'32	30.91869 AU
min. Earth dist.	-2718 Oct 28 j 00:40	13° Υ 55'55	28.88021 AU	morning rise	-2711 May 29 j 05:11	29° Υ 03'36	
direct	-2717 Jan 14 j 03:08	12° Υ 31'01			-2711 Jun 26 j 07:37	0° \mathcal{B}	
evening set	-2717 Apr 13 j 01:23	14° Υ 26'03		retrograde	-2711 Aug 26 j 09:59	0° \mathcal{B} 59'13	
					-2711 Oct 28 j 10:03	30° $\mathcal{R}\Upsilon$	
conjunction	-2717 Apr 29 j 07:49	15° Υ 02'03	-1°55'32	opposition	-2711 Nov 12 j 05:28	29° Υ 35'08	-1°45'27
minimum elong	-2717 Apr 29 j 07:50	15° Υ 02'03	1°55'32	min. Earth dist.	-2711 Nov 12 j 06:25	29° Υ 35'04	28.92433 AU
max. Earth dist.	-2717 Apr 29 j 12:44	15° Υ 02'31	30.88075 AU	direct	-2710 Jan 29 j 14:45	28° Υ 10'16	
morning rise	-2717 May 15 j 14:45	15° Υ 38'08			-2710 Apr 26 j 12:56	0° \mathcal{B}	
retrograde	-2717 Aug 13 j 13:23	17° Υ 34'43		evening set	-2710 Apr 29 j 04:16	0° \mathcal{B} 05'41	
opposition	-2717 Oct 30 j 15:13	16° Υ 10'12	-2°02'24				
min. Earth dist.	-2717 Oct 30 j 11:02	16° Υ 10'30	28.88371 AU	conjunction	-2710 May 15 j 12:05	0° \mathcal{B} 41'46	-1°37'03
direct	-2716 Jan 16 j 17:13	14° Υ 45'33		minimum elong	-2710 May 15 j 12:05	0° \mathcal{B} 41'46	1°37'00
evening set	-2716 Apr 14 j 15:40	16° Υ 40'36		max. Earth dist.	-2710 May 15 j 10:30	0° \mathcal{B} 41'37	30.92831 AU
				morning rise	-2710 May 31 j 19:26	1° \mathcal{B} 17'49	
conjunction	-2716 Apr 30 j 22:15	17° Υ 16'37	-1°53'24	retrograde	-2710 Aug 28 j 22:54	3° \mathcal{B} 13'19	
minimum elong	-2716 Apr 30 j 22:16	17° Υ 16'37	1°53'22	opposition	-2710 Nov 14 j 15:47	1° \mathcal{B} 49'20	-1°42'02
max. Earth dist.	-2716 May 01 j 01:30	17° Υ 16'55	30.88447 AU	min. Earth dist.	-2710 Nov 14 j 16:45	1° \mathcal{B} 49'16	28.93382 AU
morning rise	-2716 May 17 j 05:23	17° Υ 52'42		direct	-2709 Feb 01 j 03:09	0° \mathcal{B} 24'29	
retrograde	-2716 Aug 15 j 01:41	19° Υ 49'06		evening set	-2709 May 01 j 18:33	2° \mathcal{B} 20'00	
opposition	-2716 Nov 01 j 01:43	18° Υ 24'37	-2°00'01				
min. Earth dist.	-2716 Oct 31 j 23:01	18° Υ 24'48	28.88776 AU	conjunction	-2709 May 18 j 02:30	2° \mathcal{B} 56'04	-1°33'47
direct	-2715 Jan 18 j 04:52	16° Υ 59'52		minimum elong	-2709 May 18 j 02:31	2° \mathcal{B} 56'04	1°33'45
evening set	-2715 Apr 17 j 05:44	18° Υ 54'58		max. Earth dist.	-2709 May 17 j 23:54	2° \mathcal{B} 55'50	30.93754 AU
				morning rise	-2709 Jun 03 j 09:46	3° \mathcal{B} 32'08	
conjunction	-2715 May 03 j 12:41	19° Υ 30'59	-1°51'05	retrograde	-2709 Aug 31 j 10:13	5° \mathcal{B} 27'30	
minimum elong	-2715 May 03 j 12:42	19° Υ 31'00	1°51'03	opposition	-2709 Nov 17 j 02:10	4° \mathcal{B} 03'38	-1°38'28
max. Earth dist.	-2715 May 03 j 16:00	19° Υ 31'18	30.88892 AU	min. Earth dist.	-2709 Nov 17 j 05:18	4° \mathcal{B} 03'24	28.94272 AU
morning rise	-2715 May 19 j 19:45	20° Υ 07'04		direct	-2708 Feb 03 j 14:21	2° \mathcal{B} 38'45	
retrograde	-2715 Aug 17 j 12:43	22° Υ 03'16		evening set	-2708 May 03 j 08:52	4° \mathcal{B} 34'21	
opposition	-2715 Nov 03 j 12:02	20° Υ 38'50	-1°57'27				
min. Earth dist.	-2715 Nov 03 j 09:34	20° Υ 39'01	28.89261 AU	conjunction	-2708 May 19 j 16:59	5° \mathcal{B} 10'26	-1°30'23
direct	-2714 Jan 20 j 17:58	19° Υ 14'03		minimum elong	-2708 May 19 j 17:00	5° \mathcal{B} 10'26	1°30'20
evening set	-2714 Apr 19 j 19:54	21° Υ 09'10		max. Earth dist.	-2708 May 19 j 13:15	5° \mathcal{B} 10'05	30.94606 AU
				morning rise	-2708 Jun 05 j 00:12	5° \mathcal{B} 46'29	
conjunction	-2714 May 06 j 02:54	21° Υ 45'12	-1°48'36	retrograde	-2708 Sep 01 j 23:24	7° \mathcal{B} 41'43	

Attention, astronomical year style is used: The year -2708 in astronomical counting style is the year 2709 BCE in historical counting style.

opposition	-2708 Nov 18 j 12:33	6°8'17"55	-1°34'45	conjunction	-2701 Jun 05 j 18:56	20°8'47"36	-1°03'10
min. Earth dist.	-2708 Nov 18 j 15:58	6°8'17"41	28.95056 AU	minimum elong	-2701 Jun 05 j 18:56	20°8'47"36	1°03'08
direct	-2707 Feb 05 j 04:41	4°8'53"02		max. Earth dist.	-2701 Jun 05 j 07:49	20°8'46"34	30.99014 AU
evening set	-2707 May 05 j 23:10	6°8'48"41		morning rise	-2701 Jun 22 j 01:20	21°8'23"32	
				retrograde	-2701 Sep 18 j 04:40	23°8'17"35	
conjunction	-2707 May 22 j 07:15	7°8'24"47	-1°26'50	opposition	-2701 Dec 04 j 12:18	21°8'54"09	-1°05'16
minimum elong	-2707 May 22 j 07:15	7°8'24"47	1°26'48	min. Earth dist.	-2701 Dec 04 j 21:19	21°8'53"30	28.99471 AU
max. Earth dist.	-2707 May 22 j 01:38	7°8'24"16	30.95335 AU	direct	-2700 Feb 21 j 16:44	20°8'28"53	
morning rise	-2707 Jun 07 j 14:26	8°8'00"49		evening set	-2700 May 22 j 00:30	22°8'24"46	
retrograde	-2707 Sep 04 j 11:23	9°8'55"54					
opposition	-2707 Nov 20 j 23:01	8°8'32"10	-1°30'54	conjunction	-2700 Jun 07 j 08:38	23°8'00"49	-0°58'53
min. Earth dist.	-2707 Nov 21 j 04:09	8°8'31"48	28.95737 AU	minimum elong	-2700 Jun 07 j 08:38	23°8'00"49	0°58'49
direct	-2706 Feb 07 j 16:46	7°8'07"14		max. Earth dist.	-2700 Jun 06 j 21:09	22°8'59"45	30.99880 AU
evening set	-2706 May 08 j 13:15	9°8'02"57		morning rise	-2700 Jun 23 j 14:43	23°8'36"44	
				retrograde	-2700 Sep 19 j 14:17	25°8'30"38	
conjunction	-2706 May 24 j 21:33	9°8'39"02	-1°23'10	opposition	-2700 Dec 05 j 22:36	24°8'07"17	-1°00'37
minimum elong	-2706 May 24 j 21:34	9°8'39"02	1°23'07	min. Earth dist.	-2700 Dec 06 j 09:09	24°8'06"32	29.00403 AU
max. Earth dist.	-2706 May 24 j 15:31	9°8'38"29	30.95976 AU	direct	-2699 Feb 23 j 03:54	22°8'42"01	
morning rise	-2706 Jun 10 j 04:33	10°8'15"03		evening set	-2699 May 24 j 14:04	24°8'37"56	
retrograde	-2706 Sep 06 j 22:37	12°8'09"57					
opposition	-2706 Nov 23 j 09:17	10°8'46"18	-1°26'55	conjunction	-2699 Jun 09 j 22:05	25°8'13"59	-0°54'29
min. Earth dist.	-2706 Nov 23 j 15:03	10°8'45"53	28.96326 AU	minimum elong	-2699 Jun 09 j 22:05	25°8'13"59	0°54'26
direct	-2705 Feb 10 j 06:15	9°8'21"19		max. Earth dist.	-2699 Jun 09 j 10:07	25°8'12"52	31.00880 AU
evening set	-2705 May 11 j 03:23	11°8'17"03		morning rise	-2699 Jun 26 j 03:56	25°8'49"52	
				retrograde	-2699 Sep 22 j 01:56	27°8'43"39	
conjunction	-2705 May 27 j 11:36	11°8'53"08	-1°19'23	opposition	-2699 Dec 08 j 08:44	26°8'20"23	-0°55'53
minimum elong	-2705 May 27 j 11:37	11°8'53"08	1°19'21	min. Earth dist.	-2699 Dec 08 j 19:03	26°8'19"39	29.01436 AU
max. Earth dist.	-2705 May 27 j 03:21	11°8'52"22	30.96544 AU	direct	-2698 Feb 25 j 17:48	24°8'55"08	
morning rise	-2705 Jun 12 j 18:41	12°8'29"09		evening set	-2698 May 27 j 03:46	26°8'51"07	
retrograde	-2705 Sep 09 j 11:14	14°8'23"52					
opposition	-2705 Nov 25 j 19:34	13°8'00"15	-1°22'48	conjunction	-2698 Jun 12 j 11:35	27°8'27"09	-0°50'01
min. Earth dist.	-2705 Nov 26 j 02:23	12°8'59"46	28.96873 AU	minimum elong	-2698 Jun 12 j 11:35	27°8'27"09	0°49'57
direct	-2704 Feb 12 j 17:54	11°8'35"12		max. Earth dist.	-2698 Jun 11 j 22:27	27°8'25"56	31.01950 AU
evening set	-2704 May 12 j 17:22	13°8'30"58		morning rise	-2698 Jun 28 j 17:11	28°8'03"00	
				retrograde	-2698 Sep 24 j 13:22	29°8'56"41	
conjunction	-2704 May 29 j 01:46	14°8'07"04	-1°15'29	opposition	-2698 Dec 10 j 18:55	28°8'33"31	-0°51'04
minimum elong	-2704 May 29 j 01:47	14°8'07"04	1°15'25	min. Earth dist.	-2698 Dec 11 j 06:38	28°8'32"41	29.02532 AU
max. Earth dist.	-2704 May 28 j 17:38	14°8'06"18	30.97081 AU	direct	-2697 Feb 28 j 05:13	27°8'08"15	
morning rise	-2704 Jun 14 j 08:33	14°8'43"02		evening set	-2697 May 29 j 17:22	29°8'04"19	
	-2704 Jun 22 j 07:16	15°8'		max. Earth dist.	-2697 Jun 14 j 11:52	29°8'39"07	31.03048 AU
retrograde	-2704 Sep 10 j 21:10	16°8'37"35					
opposition	-2704 Nov 27 j 05:47	15°8'14"00	-1°18'35	conjunction	-2697 Jun 15 j 01:09	29°8'40"20	-0°45'29
min. Earth dist.	-2704 Nov 27 j 13:48	15°8'13"26	28.97403 AU	minimum elong	-2697 Jun 15 j 01:09	29°8'40"20	0°45'25
	-2704 Dec 05 j 12:23	15°8'8'			-2697 Jun 23 j 21:16	0°8'	
direct	-2703 Feb 14 j 06:06	13°8'48"54		morning rise	-2697 Jul 01 j 06:24	0°8'16"10	
	-2703 Apr 23 j 11:10	15°8'		retrograde	-2697 Sep 27 j 00:43	2°8'09"43	
evening set	-2703 May 15 j 07:23	15°8'44"41		opposition	-2697 Dec 13 j 05:12	0°8'46"39	-0°46'11
				min. Earth dist.	-2697 Dec 13 j 17:28	0°8'45"48	29.03597 AU
conjunction	-2703 May 31 j 15:37	16°8'20"46	-1°11'29		-2696 Jan 11 j 10:12	30°8'	
minimum elong	-2703 May 31 j 15:37	16°8'20"46	1°11'26	direct	-2696 Mar 01 j 18:33	29°8'21"25	
max. Earth dist.	-2703 May 31 j 05:35	16°8'19"50	30.97641 AU		-2696 Apr 20 j 03:20	0°8'	
morning rise	-2703 Jun 16 j 22:24	16°8'56"44		evening set	-2696 May 31 j 07:12	1°8'17"32	
retrograde	-2703 Sep 13 j 08:04	18°8'51"06					
opposition	-2703 Nov 29 j 16:00	17°8'27"34	-1°14'15	conjunction	-2696 Jun 16 j 14:36	1°8'53"32	-0°40'52
min. Earth dist.	-2703 Nov 30 j 00:03	17°8'26"59	28.97994 AU	minimum elong	-2696 Jun 16 j 14:37	1°8'53"32	0°40'47
direct	-2702 Feb 16 j 17:47	16°8'02"23		max. Earth dist.	-2696 Jun 15 j 23:15	1°8'52"07	31.04082 AU
evening set	-2702 May 17 j 20:58	17°8'58"11		morning rise	-2696 Jul 02 j 19:38	2°8'29"20	
				retrograde	-2696 Sep 28 j 13:30	4°8'22"46	
conjunction	-2702 Jun 03 j 05:18	18°8'34"16	-1°07'23	opposition	-2696 Dec 14 j 15:31	2°8'59"47	-0°41'13
minimum elong	-2702 Jun 03 j 05:18	18°8'34"16	1°07'19	min. Earth dist.	-2696 Dec 15 j 04:42	2°8'58"51	29.04597 AU
max. Earth dist.	-2702 Jun 02 j 19:32	18°8'33"22	30.98268 AU	direct	-2695 Mar 04 j 06:50	1°8'34"32	
morning rise	-2702 Jun 19 j 11:45	19°8'10"13		evening set	-2695 Jun 02 j 20:49	3°8'30"42	
retrograde	-2702 Sep 15 j 16:52	21°8'04"25					
opposition	-2702 Dec 02 j 02:16	19°8'40"56	-1°09'48	conjunction	-2695 Jun 19 j 04:09	4°8'06"41	-0°36'12
min. Earth dist.	-2702 Dec 02 j 11:43	19°8'40"15	28.98669 AU	minimum elong	-2695 Jun 19 j 04:09	4°8'06"41	0°36'09
direct	-2701 Feb 19 j 05:16	18°8'15"42		max. Earth dist.	-2695 Jun 18 j 12:52	4°8'05"16	31.05029 AU
evening set	-2701 May 20 j 10:45	20°8'11"32		morning rise	-2695 Jul 05 j 08:40	4°8'42"27	

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

retrograde	-2695 Sep 30 j 23:22	6°II35'45		direct	-2688 Mar 19 j 19:04	17°II02'24	
opposition	-2695 Dec 17 j 01:59	5°II12'51	-0°36'12	evening set	-2688 Jun 18 j 17:36	18°II58'43	
min. Earth dist.	-2695 Dec 17 j 16:28	5°II11'50	29.05486 AU				
direct	-2694 Mar 06 j 19:45	3°II47'35		conjunction	-2688 Jul 04 j 22:37	19°II34'30	-0°02'39
evening set	-2694 Jun 05 j 10:21	5°II43'46		minimum elong	-2688 Jul 04 j 22:38	19°II34'30	0°02'34
				behind sun begin	-2688 Jul 04 j 16:05	19°II33'55	
conjunction	-2694 Jun 21 j 17:18	6°II19'44	-0°31'30	behind sun end	-2688 Jul 05 j 05:11	19°II35'05	
minimum elong	-2694 Jun 21 j 17:18	6°II19'44	0°31'25	max. Earth dist.	-2688 Jul 04 j 02:39	19°II32'39	31.10283 AU
max. Earth dist.	-2694 Jun 20 j 23:58	6°II18'07	31.05874 AU	morning rise	-2688 Jul 21 j 00:12	20°II10'02	
morning rise	-2694 Jul 07 j 21:38	6°II55'29		retrograde	-2688 Oct 15 j 23:14	22°II02'29	
retrograde	-2694 Oct 03 j 10:37	8°II48'38		opposition	-2687 Jan 01 j 02:12	20°II39'54	-0°00'13
opposition	-2694 Dec 19 j 12:19	7°II25'47	-0°31'09	min. Earth dist.	-2687 Jan 01 j 20:19	20°II38'38	29.10786 AU
min. Earth dist.	-2694 Dec 20 j 03:00	7°II24'45	29.06280 AU	asc. node	-2687 Jan 16 j 04:55	20°II14'53	
direct	-2693 Mar 09 j 07:48	6°II00'29		direct	-2687 Mar 22 j 08:19	19°II14'27	
evening set	-2693 Jun 07 j 23:50	7°II56'41		evening set	-2687 Jun 21 j 06:34	21°II10'48	
conjunction	-2693 Jun 24 j 06:40	8°II32'38	-0°26'44	conjunction	-2687 Jul 07 j 11:01	21°II46'33	0°02'20
minimum elong	-2693 Jun 24 j 06:40	8°II32'38	0°26'41	minimum elong	-2687 Jul 07 j 11:01	21°II46'33	0°02'24
max. Earth dist.	-2693 Jun 23 j 13:19	8°II31'02	31.06617 AU	behind sun begin	-2687 Jul 07 j 04:28	21°II45'59	
morning rise	-2693 Jul 10 j 10:28	9°II08'21		behind sun end	-2687 Jul 07 j 17:35	21°II47'08	
retrograde	-2693 Oct 05 j 19:30	11°II01'22		max. Earth dist.	-2687 Jul 06 j 13:47	21°II44'36	31.11286 AU
opposition	-2693 Dec 21 j 22:38	9°II38'34	-0°26'03	morning rise	-2687 Jul 23 j 12:12	22°II22'02	
min. Earth dist.	-2693 Dec 22 j 15:03	9°II37'25	29.06983 AU	retrograde	-2687 Oct 18 j 11:59	24°II14'26	
direct	-2692 Mar 10 j 19:25	8°II13'13		opposition	-2686 Jan 03 j 12:35	22°II51'56	0°04'59
evening set	-2692 Jun 09 j 13:21	10°II09'27		min. Earth dist.	-2686 Jan 04 j 06:51	22°II50'39	29.11856 AU
				direct	-2686 Mar 24 j 20:34	21°II26'30	
conjunction	-2692 Jun 25 j 19:46	10°II45'22	-0°21'57	evening set	-2686 Jun 23 j 19:11	23°II22'55	
minimum elong	-2692 Jun 25 j 19:46	10°II45'22	0°21'53				
max. Earth dist.	-2692 Jun 25 j 00:50	10°II43'37	31.07302 AU	conjunction	-2686 Jul 09 j 23:23	23°II58'39	0°07'11
morning rise	-2692 Jul 11 j 23:18	11°II21'02		minimum elong	-2686 Jul 09 j 23:23	23°II58'39	0°07'16
retrograde	-2692 Oct 07 j 06:44	13°II13'55		behind sun begin	-2686 Jul 09 j 17:23	23°II58'07	
opposition	-2692 Dec 23 j 08:55	11°II51'10	-0°20'55	behind sun end	-2686 Jul 10 j 05:23	23°II59'11	
min. Earth dist.	-2692 Dec 24 j 01:02	11°II50'02	29.07645 AU	max. Earth dist.	-2686 Jul 09 j 02:58	23°II56'46	31.12398 AU
direct	-2691 Mar 13 j 07:10	10°II25'46		morning rise	-2686 Jul 25 j 23:55	24°II34'06	
evening set	-2691 Jun 12 j 02:30	12°II22'00		retrograde	-2686 Oct 20 j 21:35	26°II26'26	
				opposition	-2685 Jan 05 j 23:04	25°II04'02	0°10'10
conjunction	-2691 Jun 28 j 08:38	12°II57'53	-0°17'09	min. Earth dist.	-2685 Jan 06 j 18:14	25°II02'42	29.12988 AU
minimum elong	-2691 Jun 28 j 08:38	12°II57'53	0°17'05	direct	-2685 Mar 27 j 09:27	23°II38'40	
max. Earth dist.	-2691 Jun 27 j 13:26	12°II56'07	31.07952 AU	evening set	-2685 Jun 26 j 08:08	25°II35'08	
morning rise	-2691 Jul 14 j 11:37	13°II33'32					
retrograde	-2691 Oct 09 j 15:30	15°II26'18		conjunction	-2685 Jul 12 j 11:40	26°II10'50	0°12'01
opposition	-2691 Dec 25 j 19:19	14°II03'34	-0°15'46	minimum elong	-2685 Jul 12 j 11:40	26°II10'50	0°12'05
min. Earth dist.	-2691 Dec 26 j 12:59	14°II02'19	29.08311 AU	behind sun begin	-2685 Jul 12 j 07:16	26°II10'26	
direct	-2690 Mar 15 j 18:33	12°II38'08		behind sun end	-2685 Jul 12 j 16:04	26°II11'13	
evening set	-2690 Jun 14 j 15:37	14°II34'23		max. Earth dist.	-2685 Jul 11 j 13:44	26°II08'48	31.13547 AU
				morning rise	-2685 Jul 28 j 11:49	26°II46'14	
conjunction	-2690 Jun 30 j 21:23	15°II10'14	-0°12'20	retrograde	-2685 Oct 23 j 09:03	28°II38'31	
minimum elong	-2690 Jun 30 j 21:23	15°II10'14	0°12'15	opposition	-2684 Jan 08 j 09:25	27°II16'14	0°15'20
behind sun begin	-2690 Jun 30 j 17:05	15°II09'51		min. Earth dist.	-2684 Jan 09 j 04:25	27°II14'54	29.14137 AU
behind sun end	-2690 Jul 01 j 01:42	15°II10'37		direct	-2684 Mar 28 j 21:13	25°II50'53	
max. Earth dist.	-2690 Jun 30 j 01:46	15°II08'25	31.08645 AU	evening set	-2684 Jun 27 j 20:55	27°II47'25	
morning rise	-2690 Jul 16 j 23:59	15°II45'50		max. Earth dist.	-2684 Jul 13 j 02:36	28°II21'06	31.14666 AU
retrograde	-2690 Oct 12 j 02:01	17°II38'29					
opposition	-2690 Dec 28 j 05:27	16°II15'47	-0°10'35	conjunction	-2684 Jul 14 j 00:06	28°II23'05	0°16'50
min. Earth dist.	-2690 Dec 28 j 22:46	16°II14'34	29.09030 AU	minimum elong	-2684 Jul 14 j 00:05	28°II23'05	0°16'55
direct	-2689 Mar 18 j 07:58	14°II50'19		morning rise	-2684 Jul 29 j 23:30	28°II58'27	
evening set	-2689 Jun 17 j 04:42	16°II46'36			-2684 Aug 30 j 03:20	0°☾	
				retrograde	-2684 Oct 24 j 18:34	0°☾50'40	
conjunction	-2689 Jul 03 j 10:03	17°II22'25	-0°07'30		-2684 Dec 21 j 11:29	30°☾II	
minimum elong	-2689 Jul 03 j 10:03	17°II22'25	0°07'26	opposition	-2683 Jan 09 j 20:12	29°II28'29	0°20'29
behind sun begin	-2689 Jul 03 j 04:04	17°II21'53		min. Earth dist.	-2683 Jan 10 j 16:39	29°II27'03	29.15226 AU
behind sun end	-2689 Jul 03 j 16:02	17°II22'57		direct	-2683 Mar 31 j 08:51	28°II03'11	
max. Earth dist.	-2689 Jul 02 j 13:39	17°II20'32	31.09403 AU	evening set	-2683 Jun 30 j 09:39	29°II59'44	
morning rise	-2689 Jul 19 j 12:12	17°II57'59			-2683 Jun 30 j 12:32	0°☾	
retrograde	-2689 Oct 14 j 12:41	19°II50'32					
opposition	-2689 Dec 30 j 15:51	18°II27'53	-0°05'24	conjunction	-2683 Jul 16 j 12:09	0°☾35'22	0°21'38
min. Earth dist.	-2689 Dec 31 j 10:02	18°II26'36	29.09852 AU	minimum elong	-2683 Jul 16 j 12:09	0°☾35'22	0°21'42

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

max. Earth dist.	-2683 Jul 15 j 13:20	0°☾33'15	31.15710 AU	conjunction	-2676 Jul 31 j 22:52	15°☾57'52	0°53'52
morning rise	-2683 Aug 01 j 11:07	1°☾10'42		minimum elong	-2676 Jul 31 j 22:52	15°☾57'52	0°53'56
retrograde	-2683 Oct 27 j 05:52	3°☾02'52		max. Earth dist.	-2676 Jul 30 j 21:23	15°☾55'30	31.20462 AU
opposition	-2682 Jan 12 j 06:50	1°☾40'45	0°25'36	morning rise	-2676 Aug 16 j 17:30	16°☾32'51	
min. Earth dist.	-2682 Jan 13 j 02:52	1°☾39'21	29.16217 AU	retrograde	-2676 Nov 11 j 04:25	18°☾24'35	
direct	-2682 Apr 02 j 20:34	0°☾15'28		opposition	-2675 Jan 27 j 10:17	17°☾02'35	0°59'49
evening set	-2682 Jul 02 j 22:21	2°☾12'03		min. Earth dist.	-2675 Jan 28 j 08:40	17°☾01'02	29.20873 AU
max. Earth dist.	-2682 Jul 18 j 01:16	2°☾45'29	31.16630 AU	direct	-2675 Apr 18 j 10:54	15°☾37'11	
				evening set	-2675 Jul 18 j 12:14	17°☾33'43	
				max. Earth dist.	-2675 Aug 02 j 09:46	18°☾06'43	31.21185 AU
conjunction	-2682 Jul 19 j 00:24	2°☾47'38	0°26'24				
minimum elong	-2682 Jul 19 j 00:24	2°☾47'38	0°26'28				
morning rise	-2682 Aug 03 j 22:40	3°☾22'55		conjunction	-2675 Aug 03 j 10:06	18°☾08'59	0°58'12
retrograde	-2682 Oct 29 j 14:08	5°☾15'02		minimum elong	-2675 Aug 03 j 10:06	18°☾08'59	0°58'16
opposition	-2681 Jan 14 j 17:31	3°☾52'57	0°30'40	morning rise	-2675 Aug 19 j 03:55	18°☾43'54	
min. Earth dist.	-2681 Jan 15 j 15:13	3°☾51'27	29.17085 AU	retrograde	-2675 Nov 13 j 13:48	20°☾35'38	
direct	-2681 Apr 05 j 07:47	2°☾27'40		opposition	-2674 Jan 29 j 21:17	19°☾13'40	1°04'24
evening set	-2681 Jul 05 j 11:05	4°☾24'16		min. Earth dist.	-2674 Jan 30 j 20:28	19°☾12'04	29.21650 AU
				direct	-2674 Apr 20 j 23:07	17°☾48'19	
conjunction	-2681 Jul 21 j 12:34	4°☾59'49	0°31'07	evening set	-2674 Jul 21 j 00:09	19°☾44'52	
minimum elong	-2681 Jul 21 j 12:33	4°☾59'49	0°31'11				
max. Earth dist.	-2681 Jul 20 j 12:46	4°☾57'36	31.17436 AU	conjunction	-2674 Aug 05 j 21:15	20°☾20'04	1°02'27
morning rise	-2681 Aug 06 j 10:17	5°☾35'03		minimum elong	-2674 Aug 05 j 21:14	20°☾20'04	1°02'31
retrograde	-2681 Nov 01 j 00:02	7°☾27'05		max. Earth dist.	-2674 Aug 04 j 20:19	20°☾17'45	31.22009 AU
opposition	-2680 Jan 17 j 04:15	6°☾05'03	0°35'42	morning rise	-2674 Aug 21 j 14:34	20°☾54'57	
min. Earth dist.	-2680 Jan 18 j 01:45	6°☾03'33	29.17821 AU	retrograde	-2674 Nov 16 j 00:42	22°☾46'41	
direct	-2680 Apr 06 j 20:34	4°☾39'45		opposition	-2673 Feb 01 j 08:00	21°☾24'47	1°08'54
evening set	-2680 Jul 06 j 23:40	6°☾36'20		min. Earth dist.	-2673 Feb 02 j 06:11	21°☾23'15	29.22503 AU
max. Earth dist.	-2680 Jul 21 j 23:50	7°☾09'33	31.18110 AU	direct	-2673 Apr 23 j 11:07	19°☾59'29	
				evening set	-2673 Jul 23 j 11:58	21°☾56'04	
conjunction	-2680 Jul 23 j 00:31	7°☾11'50	0°35'48	max. Earth dist.	-2673 Aug 07 j 07:53	22°☾28'56	31.22873 AU
minimum elong	-2680 Jul 23 j 00:31	7°☾11'50	0°35'53				
morning rise	-2680 Aug 07 j 21:36	7°☾47'01		conjunction	-2673 Aug 08 j 08:29	22°☾31'14	1°06'36
retrograde	-2680 Nov 02 j 10:21	9°☾39'00		minimum elong	-2673 Aug 08 j 08:29	22°☾31'14	1°06'40
opposition	-2679 Jan 18 j 15:04	8°☾16'58	0°40'40	morning rise	-2673 Aug 24 j 01:03	23°☾06'04	
min. Earth dist.	-2679 Jan 19 j 13:35	8°☾15'24	29.18462 AU	retrograde	-2673 Nov 18 j 09:28	24°☾57'49	
direct	-2679 Apr 09 j 07:07	6°☾51'38		opposition	-2672 Feb 03 j 19:08	23°☾35'59	1°13'17
evening set	-2679 Jul 09 j 12:02	8°☾48'13		min. Earth dist.	-2672 Feb 04 j 18:23	23°☾34'23	29.23382 AU
				direct	-2672 Apr 24 j 21:47	22°☾10'45	
conjunction	-2679 Jul 25 j 12:24	9°☾23'40	0°40'25	evening set	-2672 Jul 24 j 23:42	24°☾07'22	
minimum elong	-2679 Jul 25 j 12:24	9°☾23'40	0°40'29				
max. Earth dist.	-2679 Jul 24 j 12:04	9°☾21'24	31.18712 AU	conjunction	-2672 Aug 09 j 19:30	24°☾42'30	1°10'40
morning rise	-2679 Aug 10 j 08:48	9°☾58'48		minimum elong	-2672 Aug 09 j 19:29	24°☾42'30	1°10'44
retrograde	-2679 Nov 04 j 20:12	11°☾50'42		max. Earth dist.	-2672 Aug 08 j 18:57	24°☾40'12	31.23738 AU
opposition	-2678 Jan 21 j 01:50	10°☾28'40	0°45'34	morning rise	-2672 Aug 25 j 11:25	25°☾17'17	
min. Earth dist.	-2678 Jan 22 j 00:27	10°☾27'06	29.19034 AU	retrograde	-2672 Nov 19 j 19:19	27°☾09'04	
direct	-2678 Apr 11 j 21:00	9°☾03'19		opposition	-2671 Feb 05 j 06:16	25°☾47'18	1°17'34
evening set	-2678 Jul 12 j 00:17	10°☾59'52		min. Earth dist.	-2671 Feb 06 j 04:56	25°☾45'44	29.24216 AU
				direct	-2671 Apr 27 j 09:42	24°☾22'08	
conjunction	-2678 Jul 27 j 23:56	11°☾35'16	0°44'58	evening set	-2671 Jul 27 j 11:28	26°☾18'46	
minimum elong	-2678 Jul 27 j 23:56	11°☾35'16	0°45'03	max. Earth dist.	-2671 Aug 11 j 05:29	26°☾51'31	31.24525 AU
max. Earth dist.	-2678 Jul 26 j 22:23	11°☾32'54	31.19267 AU				
morning rise	-2678 Aug 12 j 19:52	12°☾10'21		conjunction	-2671 Aug 12 j 06:33	26°☾53'51	1°14'37
retrograde	-2678 Nov 07 j 08:05	14°☾02'11		minimum elong	-2671 Aug 12 j 06:33	26°☾53'51	1°14'41
opposition	-2677 Jan 23 j 12:35	12°☾40'09	0°50'24	morning rise	-2671 Aug 27 j 21:50	27°☾28'36	
min. Earth dist.	-2677 Jan 24 j 11:16	12°☾38'35	29.19599 AU	retrograde	-2671 Nov 22 j 06:03	29°☾20'25	
direct	-2677 Apr 14 j 09:25	11°☾14'46		opposition	-2670 Feb 07 j 17:28	27°☾58'42	1°21'45
evening set	-2677 Jul 14 j 12:22	13°☾11'18		min. Earth dist.	-2670 Feb 08 j 16:50	27°☾57'06	29.24975 AU
max. Earth dist.	-2677 Jul 29 j 11:00	13°☾44'23	31.19833 AU	direct	-2670 Apr 29 j 19:11	26°☾33'35	
				evening set	-2670 Jul 29 j 23:02	28°☾30'14	
conjunction	-2677 Jul 30 j 11:32	13°☾46'39	0°49'27				
minimum elong	-2677 Jul 30 j 11:32	13°☾46'39	0°49'32	conjunction	-2670 Aug 14 j 17:34	29°☾05'16	1°18'28
morning rise	-2677 Aug 15 j 06:40	14°☾21'41		minimum elong	-2670 Aug 14 j 17:34	29°☾05'16	1°18'32
retrograde	-2677 Nov 09 j 16:59	16°☾13'28		max. Earth dist.	-2670 Aug 13 j 17:02	29°☾02'59	31.25215 AU
opposition	-2676 Jan 25 j 23:25	14°☾51'26	0°55'09	morning rise	-2670 Aug 30 j 08:08	29°☾39'59	
min. Earth dist.	-2676 Jan 26 j 22:42	14°☾49'49	29.20188 AU				
direct	-2676 Apr 15 j 22:36	13°☾26'02		retrograde	-2670 Nov 24 j 16:02	1°☾31'49	
evening set	-2676 Jul 16 j 00:31	15°☾22'34		opposition	-2669 Feb 10 j 04:46	0°☾10'08	1°25'48

Attention, astronomical year style is used: The year -2669 in astronomical counting style is the year 2670 BCE in historical counting style.

min. Earth dist.	-2669 Feb 11 j 04:12	0°08'32"	29.25591 AU	minimum elong	-2663 Aug 29 j 19:16	14°02'53"	1°41'57"
	-2669 Feb 16 j 08:40	30°08'32"		max. Earth dist.	-2663 Aug 28 j 19:36	14°02'04"	31.27287 AU
direct	-2669 May 02 j 08:40	28°08'45"		morning rise	-2663 Sep 14 j 05:30	14°05'16"	
	-2669 Jul 12 j 06:56	0°08'45"			-2663 Sep 15 j 11:32	15°08'45"	
evening set	-2669 Aug 01 j 10:45	0°08'41"		retrograde	-2663 Dec 09 j 14:47	16°08'49"	
max. Earth dist.	-2669 Aug 16 j 02:41	1°08'14"	31.25755 AU	opposition	-2662 Feb 25 j 12:46	15°02'27"	1°50'20"
				min. Earth dist.	-2662 Feb 26 j 10:50	15°02'55"	29.27586 AU
conjunction	-2669 Aug 17 j 04:27	1°08'16"	1°22'12"		-2662 Mar 14 j 13:16	15°08'48"	
minimum elong	-2669 Aug 17 j 04:26	1°08'16"	1°22'16"	direct	-2662 May 17 j 23:42	14°02'02"	
morning rise	-2669 Sep 01 j 18:28	1°05'12"			-2662 Jul 18 j 07:57	15°08'48"	
retrograde	-2669 Nov 27 j 04:20	3°08'43"		evening set	-2662 Aug 16 j 16:15	15°08'58"	
opposition	-2668 Feb 12 j 16:05	2°02'13"	1°29'43"	max. Earth dist.	-2662 Aug 31 j 05:46	16°03'11"	31.27662 AU
min. Earth dist.	-2668 Feb 13 j 15:31	2°08'19"	29.26075 AU				
direct	-2668 May 03 j 20:24	0°08'56"		conjunction	-2662 Sep 01 j 05:21	16°03'32"	1°44'41"
evening set	-2668 Aug 02 j 22:13	2°08'53"		minimum elong	-2662 Sep 01 j 05:21	16°03'32"	1°44'44"
				morning rise	-2662 Sep 16 j 15:03	17°08'07"	
conjunction	-2668 Aug 18 j 15:23	3°08'28"	1°25'49"	retrograde	-2662 Dec 12 j 01:13	18°08'59"	
minimum elong	-2668 Aug 18 j 15:23	3°08'28"	1°25'53"	opposition	-2661 Feb 28 j 00:21	17°03'38"	1°53'14"
max. Earth dist.	-2668 Aug 17 j 14:33	3°08'25"	31.26162 AU	min. Earth dist.	-2661 Feb 28 j 22:22	17°03'36"	29.28017 AU
morning rise	-2668 Sep 03 j 04:36	4°08'02"		direct	-2661 May 20 j 09:20	16°08'13"	
retrograde	-2668 Nov 28 j 13:33	5°08'54"		evening set	-2661 Aug 19 j 02:51	18°08'09"	
opposition	-2667 Feb 14 j 03:36	4°03'25"	1°33'31"				
min. Earth dist.	-2667 Feb 15 j 03:43	4°03'11"	29.26417 AU	conjunction	-2661 Sep 03 j 15:25	18°08'44"	1°47'19"
direct	-2667 May 06 j 09:02	3°08'07"		minimum elong	-2661 Sep 03 j 15:24	18°08'44"	1°47'22"
evening set	-2667 Aug 05 j 09:32	5°08'04"		max. Earth dist.	-2661 Sep 02 j 17:13	18°08'41"	31.28123 AU
max. Earth dist.	-2667 Aug 20 j 00:03	5°08'36"	31.26450 AU	morning rise	-2661 Sep 19 j 00:26	19°08'18"	
				retrograde	-2661 Dec 14 j 10:23	21°08'10"	
conjunction	-2667 Aug 21 j 01:53	5°08'39"	1°29'18"	opposition	-2660 Mar 01 j 12:01	19°08'48"	1°55'58"
minimum elong	-2667 Aug 21 j 01:52	5°08'39"	1°29'22"	min. Earth dist.	-2660 Mar 02 j 09:25	19°08'47"	29.28494 AU
morning rise	-2667 Sep 05 j 14:39	6°08'13"		direct	-2660 May 21 j 22:06	18°08'23"	
retrograde	-2667 Dec 01 j 01:16	8°08'05"		evening set	-2660 Aug 20 j 13:33	20°08'20"	
opposition	-2666 Feb 16 j 14:57	6°08'44"	1°37'10"	max. Earth dist.	-2660 Sep 04 j 02:37	20°08'52"	31.28615 AU
min. Earth dist.	-2666 Feb 17 j 14:17	6°08'42"	29.26662 AU				
direct	-2666 May 08 j 21:55	5°08'19"		conjunction	-2660 Sep 05 j 01:20	20°08'54"	1°49'48"
evening set	-2666 Aug 07 j 20:41	7°08'15"		minimum elong	-2660 Sep 05 j 01:20	20°08'54"	1°49'51"
max. Earth dist.	-2666 Aug 22 j 11:43	7°08'48"	31.26645 AU	morning rise	-2660 Sep 20 j 09:57	21°08'28"	
				retrograde	-2660 Dec 15 j 22:23	23°08'21"	
conjunction	-2666 Aug 23 j 12:32	7°08'50"	1°32'39"	opposition	-2659 Mar 03 j 23:46	21°08'59"	1°58'32"
minimum elong	-2666 Aug 23 j 12:32	7°08'50"	1°32'43"	min. Earth dist.	-2659 Mar 04 j 20:31	21°08'57"	29.28996 AU
morning rise	-2666 Sep 08 j 00:32	8°08'25"		direct	-2659 May 24 j 08:06	20°08'34"	
retrograde	-2666 Dec 03 j 11:02	10°08'16"		evening set	-2659 Aug 22 j 23:55	22°08'30"	
opposition	-2665 Feb 19 j 02:19	8°08'55"	1°40'41"				
min. Earth dist.	-2665 Feb 20 j 02:33	8°08'53"	29.26839 AU	conjunction	-2659 Sep 07 j 11:16	23°08'05"	1°52'08"
direct	-2665 May 11 j 11:13	7°08'30"		minimum elong	-2659 Sep 07 j 11:16	23°08'05"	1°52'11"
evening set	-2665 Aug 10 j 07:51	9°08'26"		max. Earth dist.	-2659 Sep 06 j 14:02	23°08'03"	31.29089 AU
				morning rise	-2659 Sep 22 j 19:12	23°08'39"	
conjunction	-2665 Aug 25 j 22:54	10°08'01"	1°35'52"	retrograde	-2659 Dec 18 j 07:55	25°08'31"	
minimum elong	-2665 Aug 25 j 22:54	10°08'01"	1°35'56"	opposition	-2658 Mar 06 j 11:40	24°08'10"	2°00'56"
max. Earth dist.	-2665 Aug 24 j 21:45	9°08'59"	31.26816 AU	min. Earth dist.	-2658 Mar 07 j 08:48	24°08'08"	29.29438 AU
morning rise	-2665 Sep 10 j 10:25	10°08'35"		direct	-2658 May 26 j 19:51	22°08'45"	
retrograde	-2665 Dec 05 j 21:33	12°08'27"		evening set	-2658 Aug 25 j 10:34	24°08'41"	
opposition	-2664 Feb 21 j 13:44	11°08'06"	1°44'03"				
min. Earth dist.	-2664 Feb 22 j 12:37	11°08'04"	29.27017 AU	conjunction	-2658 Sep 09 j 21:09	25°08'16"	1°54'18"
direct	-2664 May 13 j 00:20	9°08'41"		minimum elong	-2658 Sep 09 j 21:09	25°08'16"	1°54'20"
evening set	-2664 Aug 11 j 18:41	11°08'37"		max. Earth dist.	-2658 Sep 08 j 23:13	25°08'14"	31.29488 AU
max. Earth dist.	-2664 Aug 26 j 08:43	12°08'09"	31.27004 AU	morning rise	-2658 Sep 25 j 04:43	25°08'50"	
				retrograde	-2658 Dec 20 j 20:11	27°08'42"	
conjunction	-2664 Aug 27 j 09:07	12°08'12"	1°38'57"	opposition	-2657 Mar 08 j 23:24	26°08'20"	2°03'10"
minimum elong	-2664 Aug 27 j 09:07	12°08'12"	1°39'00"	min. Earth dist.	-2657 Mar 09 j 19:31	26°08'19"	29.29790 AU
morning rise	-2664 Sep 11 j 19:54	12°08'46"		direct	-2657 May 29 j 08:09	24°08'56"	
retrograde	-2664 Dec 07 j 05:41	14°08'38"		evening set	-2657 Aug 27 j 21:04	26°08'52"	
opposition	-2663 Feb 23 j 01:22	13°08'16"	1°47'16"	max. Earth dist.	-2657 Sep 11 j 10:20	27°08'24"	31.29770 AU
min. Earth dist.	-2663 Feb 24 j 00:43	13°08'15"	29.27256 AU				
direct	-2663 May 15 j 11:33	11°08'51"		conjunction	-2657 Sep 12 j 07:12	27°08'26"	1°56'18"
evening set	-2663 Aug 14 j 05:30	13°08'48"		minimum elong	-2657 Sep 12 j 07:11	27°08'26"	1°56'20"
				morning rise	-2657 Sep 27 j 14:06	28°08'01"	
conjunction	-2663 Aug 29 j 19:16	14°08'22"	1°41'53"	retrograde	-2657 Dec 23 j 06:48	29°08'53"	

Attention, astronomical year style is used: The year -2656 in astronomical counting style is the year 2657 BCE in historical counting style.

opposition	-2656 Mar 10 j 11:34	28°031'44	2°05'13	max. Earth dist.	-2650 Sep 26 j 09:35	12°039'27	31.29440 AU
min. Earth dist.	-2656 Mar 11 j 08:25	28°030'19	29.30015 AU				
direct	-2656 May 30 j 20:57	27°007'05		conjunction	-2650 Sep 27 j 02:07	12°041'00	2°05'33
evening set	-2656 Aug 29 j 07:29	29°003'20		minimum elong	-2650 Sep 27 j 02:07	12°041'00	2°05'33
				morning rise	-2650 Oct 12 j 06:11	13°015'01	
conjunction	-2656 Sep 13 j 16:56	29°037'44	1°58'08	retrograde	-2649 Jan 07 j 04:53	15°007'58	
minimum elong	-2656 Sep 13 j 16:56	29°037'44	1°58'10	opposition	-2649 Mar 27 j 00:26	13°045'55	2°14'27
max. Earth dist.	-2656 Sep 12 j 19:51	29°035'45	31.29931 AU	min. Earth dist.	-2649 Mar 27 j 16:55	13°044'48	29.29627 AU
	-2656 Sep 23 j 14:43	0°00		direct	-2649 Jun 16 j 05:55	12°021'29	
morning rise	-2656 Sep 28 j 23:28	0°011'53		evening set	-2649 Sep 14 j 05:15	14°017'16	
retrograde	-2656 Dec 24 j 17:50	2°004'21					
opposition	-2655 Mar 12 j 23:36	0°042'34	2°07'05	conjunction	-2649 Sep 29 j 11:21	14°051'27	2°06'10
min. Earth dist.	-2655 Mar 13 j 19:06	0°041'15	29.30106 AU	minimum elong	-2649 Sep 29 j 11:21	14°051'27	2°06'11
	-2655 Apr 09 j 08:09	30°080		max. Earth dist.	-2649 Sep 28 j 18:51	14°049'54	31.29524 AU
direct	-2655 Jun 02 j 09:56	29°017'56		morning rise	-2649 Oct 14 j 15:17	15°025'27	
	-2655 Jul 24 j 05:59	0°00		retrograde	-2648 Jan 09 j 17:36	17°018'30	
evening set	-2655 Aug 31 j 17:49	1°014'08		opposition	-2648 Mar 28 j 12:44	15°056'27	2°15'01
max. Earth dist.	-2655 Sep 15 j 06:06	1°046'33	31.29950 AU	min. Earth dist.	-2648 Mar 29 j 03:27	15°055'27	29.29746 AU
				direct	-2648 Jun 17 j 17:42	14°032'06	
conjunction	-2655 Sep 16 j 02:47	1°048'30	1°59'48	evening set	-2648 Sep 15 j 14:44	16°027'51	
minimum elong	-2655 Sep 16 j 02:47	1°048'30	1°59'50				
morning rise	-2655 Oct 01 j 08:49	2°022'37		conjunction	-2648 Sep 30 j 20:34	17°002'01	2°06'36
retrograde	-2655 Dec 27 j 03:02	4°015'10		minimum elong	-2648 Sep 30 j 20:35	17°002'01	2°06'36
opposition	-2654 Mar 15 j 11:38	2°053'20	2°08'47	max. Earth dist.	-2648 Sep 30 j 05:44	17°000'37	31.29662 AU
min. Earth dist.	-2654 Mar 16 j 07:50	2°051'58	29.30078 AU	morning rise	-2648 Oct 16 j 00:06	17°036'00	
direct	-2654 Jun 04 j 21:24	1°028'44		retrograde	-2647 Jan 11 j 05:04	19°029'12	
evening set	-2654 Sep 03 j 04:02	3°024'52		opposition	-2647 Mar 31 j 01:15	18°007'07	2°15'23
				min. Earth dist.	-2647 Mar 31 j 16:10	18°006'07	29.29897 AU
conjunction	-2654 Sep 18 j 12:32	3°059'12	2°01'18	direct	-2647 Jun 20 j 05:38	16°042'53	
minimum elong	-2654 Sep 18 j 12:32	3°059'12	2°01'20	evening set	-2647 Sep 18 j 00:26	18°038'35	
max. Earth dist.	-2654 Sep 17 j 16:30	3°057'19	31.29873 AU				
morning rise	-2654 Oct 03 j 18:09	4°033'17		conjunction	-2647 Oct 03 j 05:49	19°012'43	2°06'51
retrograde	-2654 Dec 29 j 12:25	6°025'53		minimum elong	-2647 Oct 03 j 05:49	19°012'43	2°06'52
opposition	-2653 Mar 17 j 23:42	5°004'01	2°10'18	max. Earth dist.	-2647 Oct 02 j 15:21	19°011'21	31.29818 AU
min. Earth dist.	-2653 Mar 18 j 18:46	5°002'43	29.29948 AU	morning rise	-2647 Oct 18 j 09:12	19°046'42	
direct	-2653 Jun 07 j 10:22	3°039'25		retrograde	-2646 Jan 13 j 16:31	21°040'01	
evening set	-2653 Sep 05 j 14:06	5°035'28		opposition	-2646 Apr 02 j 13:30	20°017'57	2°15'33
				min. Earth dist.	-2646 Apr 03 j 02:44	20°017'04	29.30030 AU
conjunction	-2653 Sep 20 j 22:00	6°009'46	2°02'38	direct	-2646 Jun 22 j 17:42	18°053'48	
minimum elong	-2653 Sep 20 j 22:00	6°009'46	2°02'40	evening set	-2646 Sep 20 j 10:06	20°049'27	
max. Earth dist.	-2653 Sep 20 j 02:00	6°007'53	31.29712 AU				
morning rise	-2653 Oct 06 j 03:16	6°043'50		conjunction	-2646 Oct 05 j 15:10	21°023'35	2°06'55
retrograde	-2653 Dec 31 j 22:52	8°036'31		minimum elong	-2646 Oct 05 j 15:10	21°023'35	2°06'55
opposition	-2652 Mar 19 j 11:52	7°014'35	2°11'37	max. Earth dist.	-2646 Oct 05 j 01:16	21°022'16	31.29915 AU
min. Earth dist.	-2652 Mar 20 j 06:46	7°013'18	29.29789 AU	morning rise	-2646 Oct 20 j 18:17	21°057'33	
direct	-2652 Jun 08 j 20:40	5°050'00		retrograde	-2645 Jan 16 j 02:55	23°050'59	
evening set	-2652 Sep 06 j 23:57	7°045'59		opposition	-2645 Apr 05 j 02:10	22°028'55	2°15'32
				min. Earth dist.	-2645 Apr 05 j 15:47	22°028'00	29.30092 AU
conjunction	-2652 Sep 22 j 07:30	8°020'14	2°03'47	direct	-2645 Jun 25 j 05:27	21°004'51	
minimum elong	-2652 Sep 22 j 07:30	8°020'14	2°03'48	evening set	-2645 Sep 22 j 19:40	23°000'26	
max. Earth dist.	-2652 Sep 21 j 13:11	8°018'31	31.29557 AU	max. Earth dist.	-2645 Oct 07 j 11:34	23°033'20	31.29926 AU
morning rise	-2652 Oct 07 j 12:17	8°054'17					
retrograde	-2651 Jan 02 j 07:45	10°047'02		conjunction	-2645 Oct 08 j 00:26	23°034'33	2°06'48
opposition	-2651 Mar 22 j 00:05	9°025'03	2°12'45	minimum elong	-2645 Oct 08 j 00:26	23°034'33	2°06'48
min. Earth dist.	-2651 Mar 22 j 18:01	9°023'50	29.29651 AU	morning rise	-2645 Oct 23 j 03:18	24°008'30	
direct	-2651 Jun 11 j 09:19	8°000'30		retrograde	-2644 Jan 18 j 13:28	26°002'04	
evening set	-2651 Sep 09 j 09:46	9°056'24		opposition	-2644 Apr 06 j 14:50	24°039'58	2°15'19
				min. Earth dist.	-2644 Apr 07 j 03:11	24°039'08	29.30032 AU
conjunction	-2651 Sep 24 j 16:43	10°030'38	2°04'45	direct	-2644 Jun 26 j 19:00	23°015'58	
minimum elong	-2651 Sep 24 j 16:42	10°030'38	2°04'46	evening set	-2644 Sep 24 j 05:24	25°011'29	
max. Earth dist.	-2651 Sep 23 j 22:14	10°028'53	31.29454 AU				
morning rise	-2651 Oct 09 j 21:18	11°004'39		conjunction	-2644 Oct 09 j 09:46	25°045'35	2°06'30
retrograde	-2650 Jan 04 j 19:27	12°057'30		minimum elong	-2644 Oct 09 j 09:46	25°045'35	2°06'30
opposition	-2650 Mar 24 j 12:13	11°035'28	2°13'42	max. Earth dist.	-2644 Oct 08 j 20:44	25°044'21	31.29799 AU
min. Earth dist.	-2650 Mar 25 j 04:58	11°034'20	29.29599 AU	morning rise	-2644 Oct 24 j 12:32	26°019'32	
direct	-2650 Jun 13 j 18:50	10°010'58		retrograde	-2643 Jan 20 j 00:36	28°013'13	
evening set	-2650 Sep 11 j 19:27	12°006'48		opposition	-2643 Apr 09 j 03:35	26°051'04	2°14'54

Attention, astronomical year style is used: The year -2643 in astronomical counting style is the year 2644 BCE in historical counting style.

min. Earth dist.	-2643 Apr 09 j 15:51	26° \mathring{M} 50'14	29.29843 AU	evening set	-2637 Oct 09 j 22:33	10° \mathring{A} 26'51	
direct	-2643 Jun 29 j 05:35	25° \mathring{M} 27'07					
evening set	-2643 Sep 26 j 14:52	27° \mathring{M} 22'32		conjunction	-2637 Oct 25 j 01:41	11° \mathring{A} 00'53	1°59'27
				minimum elong	-2637 Oct 25 j 01:41	11° \mathring{A} 00'53	1°59'26
conjunction	-2643 Oct 11 j 19:08	27° \mathring{M} 56'37	2°06'01	max. Earth dist.	-2637 Oct 24 j 18:42	11° \mathring{A} 00'14	31.26392 AU
minimum elong	-2643 Oct 11 j 19:08	27° \mathring{M} 56'37	2°06'01	morning rise	-2637 Nov 09 j 04:03	11° \mathring{A} 34'52	
max. Earth dist.	-2643 Oct 11 j 07:32	27° \mathring{M} 55'31	31.29532 AU	retrograde	-2636 Feb 05 j 04:37	13° \mathring{A} 29'14	
morning rise	-2643 Oct 26 j 21:40	28° \mathring{M} 30'35		opposition	-2636 Apr 24 j 20:59	12° \mathring{A} 06'32	2°06'43
	-2643 Dec 15 j 04:02	0° \mathring{A}		min. Earth dist.	-2636 Apr 25 j 03:21	12° \mathring{A} 06'06	29.26332 AU
retrograde	-2642 Jan 22 j 09:22	0° \mathring{A} 24'21		direct	-2636 Jul 14 j 14:34	10° \mathring{A} 42'47	
	-2642 Mar 03 j 01:48	30° \mathring{R} \mathring{M}		evening set	-2636 Oct 11 j 07:36	12° \mathring{A} 37'29	
opposition	-2642 Apr 11 j 16:19	29° \mathring{M} 02'09	2°14'18				
min. Earth dist.	-2642 Apr 12 j 03:56	29° \mathring{M} 01'22	29.29486 AU	conjunction	-2636 Oct 26 j 10:45	13° \mathring{A} 11'31	1°57'44
direct	-2642 Jul 01 j 18:26	27° \mathring{M} 38'13		minimum elong	-2636 Oct 26 j 10:45	13° \mathring{A} 11'31	1°57'43
evening set	-2642 Sep 29 j 00:29	29° \mathring{M} 33'32		max. Earth dist.	-2636 Oct 26 j 05:25	13° \mathring{A} 11'01	31.26024 AU
	-2642 Oct 10 j 19:51	0° \mathring{A}		morning rise	-2636 Nov 10 j 13:07	13° \mathring{A} 45'31	
				retrograde	-2635 Feb 06 j 15:47	15° \mathring{A} 40'01	
conjunction	-2642 Oct 14 j 04:21	0° \mathring{A} 07'36	2°05'22	opposition	-2635 Apr 27 j 09:44	14° \mathring{A} 17'18	2°04'48
minimum elong	-2642 Oct 14 j 04:21	0° \mathring{A} 07'36	2°05'21	min. Earth dist.	-2635 Apr 27 j 14:21	14° \mathring{A} 16'59	29.25977 AU
max. Earth dist.	-2642 Oct 13 j 16:11	0° \mathring{A} 06'27	31.29109 AU	direct	-2635 Jul 17 j 03:37	12° \mathring{A} 53'38	
morning rise	-2642 Oct 29 j 06:54	0° \mathring{A} 41'34		evening set	-2635 Oct 13 j 16:42	14° \mathring{A} 48'16	
retrograde	-2641 Jan 24 j 20:51	2° \mathring{A} 35'25					
opposition	-2641 Apr 14 j 05:00	1° \mathring{A} 13'08	2°13'30	conjunction	-2635 Oct 28 j 19:42	15° \mathring{A} 22'19	1°55'51
min. Earth dist.	-2641 Apr 14 j 15:44	1° \mathring{A} 12'25	29.29001 AU	minimum elong	-2635 Oct 28 j 19:42	15° \mathring{A} 22'19	1°55'50
	-2641 Jun 07 j 22:50	30° \mathring{R} \mathring{M}		max. Earth dist.	-2635 Oct 28 j 14:34	15° \mathring{A} 21'50	31.25688 AU
direct	-2641 Jul 04 j 04:28	29° \mathring{M} 49'13		morning rise	-2635 Nov 12 j 22:18	15° \mathring{A} 56'21	
	-2641 Jul 29 j 22:00	0° \mathring{A}		retrograde	-2634 Feb 09 j 03:34	17° \mathring{A} 50'59	
evening set	-2641 Oct 01 j 09:50	1° \mathring{A} 44'25		opposition	-2634 Apr 29 j 22:41	16° \mathring{A} 28'14	2°02'42
				min. Earth dist.	-2634 Apr 30 j 02:50	16° \mathring{A} 27'57	29.25644 AU
conjunction	-2641 Oct 16 j 13:39	2° \mathring{A} 18'29	2°04'32	direct	-2634 Jul 19 j 13:51	15° \mathring{A} 04'40	
minimum elong	-2641 Oct 16 j 13:40	2° \mathring{A} 18'29	2°04'32	evening set	-2634 Oct 16 j 01:43	16° \mathring{A} 59'14	
max. Earth dist.	-2641 Oct 16 j 03:13	2° \mathring{A} 17'30	31.28570 AU				
morning rise	-2641 Oct 31 j 15:59	2° \mathring{A} 52'26		conjunction	-2634 Oct 31 j 04:49	17° \mathring{A} 33'17	1°53'48
retrograde	-2640 Jan 27 j 06:30	4° \mathring{A} 46'23		minimum elong	-2634 Oct 31 j 04:50	17° \mathring{A} 33'17	1°53'46
opposition	-2640 Apr 15 j 17:53	3° \mathring{A} 24'00	2°12'31	max. Earth dist.	-2634 Oct 31 j 01:35	17° \mathring{A} 32'59	31.25344 AU
min. Earth dist.	-2640 Apr 16 j 04:29	3° \mathring{A} 23'17	29.28417 AU	morning rise	-2634 Nov 15 j 07:21	18° \mathring{A} 07'21	
direct	-2640 Jul 05 j 16:24	2° \mathring{A} 00'06		retrograde	-2633 Feb 11 j 12:57	20° \mathring{A} 02'08	
evening set	-2640 Oct 02 j 19:05	3° \mathring{A} 55'10		opposition	-2633 May 02 j 11:39	18° \mathring{A} 39'22	2°00'25
				min. Earth dist.	-2633 May 02 j 14:50	18° \mathring{A} 39'09	29.25264 AU
conjunction	-2640 Oct 17 j 22:36	4° \mathring{A} 29'12	2°03'31	direct	-2633 Jul 22 j 02:21	17° \mathring{A} 15'53	
minimum elong	-2640 Oct 17 j 22:36	4° \mathring{A} 29'12	2°03'31	evening set	-2633 Oct 18 j 10:59	19° \mathring{A} 10'23	
max. Earth dist.	-2640 Oct 17 j 12:17	4° \mathring{A} 28'14	31.27976 AU				
morning rise	-2640 Nov 02 j 01:02	5° \mathring{A} 03'10		conjunction	-2633 Nov 02 j 13:54	19° \mathring{A} 44'28	1°51'35
retrograde	-2639 Jan 28 j 18:45	6° \mathring{A} 57'12		minimum elong	-2633 Nov 02 j 13:54	19° \mathring{A} 44'28	1°51'33
opposition	-2639 Apr 18 j 06:36	5° \mathring{A} 34'43	2°11'21	max. Earth dist.	-2633 Nov 02 j 10:24	19° \mathring{A} 44'08	31.24944 AU
min. Earth dist.	-2639 Apr 18 j 15:27	5° \mathring{A} 34'07	29.27814 AU	morning rise	-2633 Nov 17 j 16:43	20° \mathring{A} 18'32	
direct	-2639 Jul 08 j 03:49	4° \mathring{A} 10'49		retrograde	-2632 Feb 14 j 01:21	22° \mathring{A} 13'29	
evening set	-2639 Oct 05 j 04:17	6° \mathring{A} 05'46		opposition	-2632 May 04 j 00:45	20° \mathring{A} 50'42	1°57'57
				min. Earth dist.	-2632 May 04 j 02:52	20° \mathring{A} 50'33	29.24823 AU
conjunction	-2639 Oct 20 j 07:45	6° \mathring{A} 39'49	2°02'20	direct	-2632 Jul 23 j 12:01	19° \mathring{A} 27'17	
minimum elong	-2639 Oct 20 j 07:45	6° \mathring{A} 39'49	2°02'20	evening set	-2632 Oct 19 j 20:03	21° \mathring{A} 21'43	
max. Earth dist.	-2639 Oct 19 j 23:00	6° \mathring{A} 38'59	31.27377 AU				
morning rise	-2639 Nov 04 j 10:03	7° \mathring{A} 13'46		conjunction	-2632 Nov 03 j 23:08	21° \mathring{A} 55'48	1°49'12
retrograde	-2638 Jan 31 j 05:46	9° \mathring{A} 07'54		minimum elong	-2632 Nov 03 j 23:09	21° \mathring{A} 55'48	1°49'10
opposition	-2638 Apr 20 j 19:18	7° \mathring{A} 45'19	2°09'59	max. Earth dist.	-2632 Nov 03 j 21:19	21° \mathring{A} 55'38	31.24444 AU
min. Earth dist.	-2638 Apr 21 j 04:08	7° \mathring{A} 44'44	29.27241 AU	morning rise	-2632 Nov 19 j 01:58	22° \mathring{A} 29'54	
direct	-2638 Jul 10 j 15:02	6° \mathring{A} 21'27		retrograde	-2631 Feb 15 j 11:46	24° \mathring{A} 25'00	
evening set	-2638 Oct 07 j 13:29	8° \mathring{A} 16'19		opposition	-2631 May 06 j 13:57	23° \mathring{A} 02'10	1°55'19
				min. Earth dist.	-2631 May 06 j 16:00	23° \mathring{A} 02'01	29.24253 AU
conjunction	-2638 Oct 22 j 16:46	8° \mathring{A} 50'21	2°00'59	direct	-2631 Jul 25 j 23:39	21° \mathring{A} 38'49	
minimum elong	-2638 Oct 22 j 16:46	8° \mathring{A} 50'21	2°00'58	evening set	-2631 Oct 22 j 05:24	23° \mathring{A} 33'10	
max. Earth dist.	-2638 Oct 22 j 08:50	8° \mathring{A} 49'36	31.26848 AU				
morning rise	-2638 Nov 06 j 19:06	9° \mathring{A} 24'19		conjunction	-2631 Nov 06 j 08:25	24° \mathring{A} 07'15	1°46'39
retrograde	-2637 Feb 02 j 17:22	11° \mathring{A} 18'32		minimum elong	-2631 Nov 06 j 08:25	24° \mathring{A} 07'15	1°46'38
opposition	-2637 Apr 23 j 08:01	9° \mathring{A} 55'54	2°08'27	max. Earth dist.	-2631 Nov 06 j 06:28	24° \mathring{A} 07'04	31.23817 AU
min. Earth dist.	-2637 Apr 23 j 14:35	9° \mathring{A} 55'27	29.26744 AU	morning rise	-2631 Nov 21 j 11:32	24° \mathring{A} 41'23	
direct	-2637 Jul 13 j 02:58	8° \mathring{A} 32'04		retrograde	-2630 Feb 18 j 00:33	26° \mathring{A} 36'36	

Attention, astronomical year style is used: The year -2630 in astronomical counting style is the year 2631 BCE in historical counting style.

opposition	-2630 May 09 j 02:53	25° $\underline{\text{A}}$ 13'43	1°52'32	conjunction	-2624 Nov 21 j 00:49	9° M 26'35	1°24'52
min. Earth dist.	-2630 May 09 j 03:30	25° $\underline{\text{A}}$ 13'40	29.23546 AU	minimum elong	-2624 Nov 21 j 00:50	9° M 26'36	1°24'48
direct	-2630 Jul 28 j 10:24	23° $\underline{\text{A}}$ 50'24		max. Earth dist.	-2624 Nov 21 j 05:24	9° M 27'02	31.17543 AU
evening set	-2630 Oct 24 j 14:38	25° $\underline{\text{A}}$ 44'40		morning rise	-2624 Dec 06 j 05:53	10° M 00'55	
				retrograde	-2623 Mar 05 j 10:29	11° M 56'52	
conjunction	-2630 Nov 08 j 17:47	26° $\underline{\text{A}}$ 18'47	1°43'58	opposition	-2623 May 24 j 22:31	10° M 33'19	1°28'43
minimum elong	-2630 Nov 08 j 17:48	26° $\underline{\text{A}}$ 18'47	1°43'56	min. Earth dist.	-2623 May 24 j 16:16	10° M 33'44	29.17267 AU
max. Earth dist.	-2630 Nov 08 j 16:54	26° $\underline{\text{A}}$ 18'42	31.23034 AU	direct	-2623 Aug 12 j 20:25	9° M 10'07	
morning rise	-2630 Nov 23 j 21:02	26° $\underline{\text{A}}$ 52'56		evening set	-2623 Nov 08 j 05:54	11° M 03'38	
retrograde	-2629 Feb 20 j 12:15	28° $\underline{\text{A}}$ 48'16					
opposition	-2629 May 11 j 16:10	27° $\underline{\text{A}}$ 25'17	1°49'34	conjunction	-2623 Nov 23 j 10:10	11° M 37'53	1°21'13
min. Earth dist.	-2629 May 11 j 17:07	27° $\underline{\text{A}}$ 25'14	29.22691 AU	minimum elong	-2623 Nov 23 j 10:11	11° M 37'53	1°21'10
direct	-2629 Jul 30 j 20:57	26° $\underline{\text{A}}$ 02'00		max. Earth dist.	-2623 Nov 23 j 16:43	11° M 38'30	31.16873 AU
evening set	-2629 Oct 26 j 23:43	27° $\underline{\text{A}}$ 56'09		morning rise	-2623 Dec 08 j 15:26	12° M 12'15	
				retrograde	-2622 Mar 07 j 20:40	14° M 08'19	
conjunction	-2629 Nov 11 j 02:58	28° $\underline{\text{A}}$ 30'17	1°41'08	opposition	-2622 May 27 j 11:29	12° M 44'43	1°24'45
minimum elong	-2629 Nov 11 j 02:58	28° $\underline{\text{A}}$ 30'17	1°41'06	min. Earth dist.	-2622 May 27 j 04:49	12° M 45'10	29.16621 AU
max. Earth dist.	-2629 Nov 11 j 02:45	28° $\underline{\text{A}}$ 30'15	31.22132 AU	direct	-2622 Aug 15 j 07:58	11° M 21'35	
morning rise	-2629 Nov 26 j 06:29	29° $\underline{\text{A}}$ 04'27		evening set	-2622 Nov 10 j 15:05	13° M 15'02	
	-2629 Dec 23 j 09:41	0° M					
retrograde	-2628 Feb 23 j 00:24	0° M 59'54		conjunction	-2622 Nov 25 j 19:30	13° M 49'18	1°17'26
	-2628 Apr 28 j 16:51	30° R $\underline{\text{A}}$		minimum elong	-2622 Nov 25 j 19:31	13° M 49'18	1°17'23
opposition	-2628 May 13 j 05:18	29° $\underline{\text{A}}$ 36'49	1°46'28	max. Earth dist.	-2622 Nov 26 j 02:28	13° M 49'57	31.16267 AU
min. Earth dist.	-2628 May 13 j 04:20	29° $\underline{\text{A}}$ 36'53	29.21726 AU	morning rise	-2622 Dec 11 j 01:13	14° M 23'43	
direct	-2628 Aug 01 j 08:52	28° $\underline{\text{A}}$ 13'31			-2622 Dec 28 j 02:53	15° M	
	-2628 Oct 24 j 22:19	0° M		retrograde	-2621 Mar 10 j 09:10	16° M 19'55	
evening set	-2628 Oct 28 j 08:52	0° M 07'34			-2621 May 27 j 17:35	15° R M	
				opposition	-2621 May 30 j 00:34	14° M 56'17	1°20'40
conjunction	-2628 Nov 12 j 12:11	0° M 41'42	1°38'09	min. Earth dist.	-2621 May 29 j 16:07	14° M 56'51	29.16021 AU
minimum elong	-2628 Nov 12 j 12:12	0° M 41'42	1°38'07	direct	-2621 Aug 17 j 18:06	13° M 33'12	
max. Earth dist.	-2628 Nov 12 j 12:30	0° M 41'43	31.21134 AU		-2621 Oct 31 j 15:24	15° M	
morning rise	-2628 Nov 27 j 16:01	1° M 15'54		evening set	-2621 Nov 13 j 00:10	15° M 26'36	
retrograde	-2627 Feb 24 j 12:35	3° M 11'26					
opposition	-2627 May 15 j 18:23	1° M 48'14	1°43'12	conjunction	-2621 Nov 28 j 04:51	16° M 00'53	1°13'33
min. Earth dist.	-2627 May 15 j 17:31	1° M 48'17	29.20715 AU	minimum elong	-2621 Nov 28 j 04:52	16° M 00'53	1°13'30
direct	-2627 Aug 03 j 20:52	0° M 24'56		max. Earth dist.	-2621 Nov 28 j 13:06	16° M 01'40	31.15664 AU
evening set	-2627 Oct 30 j 17:50	2° M 18'51		morning rise	-2621 Dec 13 j 10:55	16° M 35'20	
				retrograde	-2620 Mar 11 j 20:54	18° M 31'42	
conjunction	-2627 Nov 14 j 21:25	2° M 53'00	1°35'02	opposition	-2620 May 31 j 13:51	17° M 08'01	1°16'26
minimum elong	-2627 Nov 14 j 21:25	2° M 53'00	1°34'59	min. Earth dist.	-2620 May 31 j 05:36	17° M 08'35	29.15406 AU
max. Earth dist.	-2627 Nov 14 j 23:25	2° M 53'12	31.20129 AU	direct	-2620 Aug 19 j 03:55	15° M 45'00	
morning rise	-2627 Nov 30 j 01:26	3° M 27'14		evening set	-2620 Nov 14 j 09:30	17° M 38'20	
retrograde	-2626 Feb 27 j 00:36	5° M 22'51					
opposition	-2626 May 18 j 07:22	3° M 59'32	1°39'48	conjunction	-2620 Nov 29 j 14:29	18° M 12'39	1°09'33
min. Earth dist.	-2626 May 18 j 04:40	3° M 59'43	29.19713 AU	minimum elong	-2620 Nov 29 j 14:29	18° M 12'39	1°09'30
direct	-2626 Aug 06 j 10:21	2° M 36'15		max. Earth dist.	-2620 Nov 29 j 23:32	18° M 13'31	31.15035 AU
evening set	-2626 Nov 02 j 02:54	4° M 30'03		morning rise	-2620 Dec 14 j 20:55	18° M 47'09	
				retrograde	-2619 Mar 14 j 09:57	20° M 43'38	
conjunction	-2626 Nov 17 j 06:26	5° M 04'13	1°31'46	opposition	-2619 Jun 03 j 02:49	19° M 19'55	1°12'06
minimum elong	-2626 Nov 17 j 06:27	5° M 04'13	1°31'43	min. Earth dist.	-2619 Jun 02 j 16:50	19° M 20'36	29.14733 AU
max. Earth dist.	-2626 Nov 17 j 08:43	5° M 04'26	31.19161 AU	direct	-2619 Aug 21 j 15:10	17° M 56'57	
morning rise	-2626 Dec 02 j 10:51	5° M 38'29		evening set	-2619 Nov 16 j 18:59	19° M 50'14	
retrograde	-2625 Mar 01 j 12:02	7° M 34'12					
opposition	-2625 May 20 j 20:28	6° M 10'47	1°36'15	conjunction	-2619 Dec 02 j 00:09	20° M 24'35	1°05'27
min. Earth dist.	-2625 May 20 j 17:03	6° M 11'01	29.18794 AU	minimum elong	-2619 Dec 02 j 00:09	20° M 24'35	1°05'23
direct	-2625 Aug 08 j 20:49	4° M 47'30		max. Earth dist.	-2619 Dec 02 j 09:20	20° M 25'27	31.14312 AU
evening set	-2625 Nov 04 j 11:50	6° M 41'12		morning rise	-2619 Dec 17 j 07:04	20° M 59'07	
				retrograde	-2618 Mar 16 j 23:16	22° M 55'45	
conjunction	-2625 Nov 19 j 15:43	7° M 15'23	1°28'23	opposition	-2618 Jun 05 j 16:07	21° M 31'58	1°07'40
minimum elong	-2625 Nov 19 j 15:44	7° M 15'24	1°28'20	min. Earth dist.	-2618 Jun 05 j 06:29	21° M 32'38	29.13957 AU
max. Earth dist.	-2625 Nov 19 j 20:12	7° M 15'49	31.18297 AU	direct	-2618 Aug 24 j 02:08	20° M 09'03	
morning rise	-2625 Dec 04 j 20:16	7° M 49'41		evening set	-2618 Nov 19 j 04:21	22° M 02'16	
retrograde	-2624 Mar 02 j 21:50	9° M 45'30					
opposition	-2624 May 22 j 09:30	8° M 22'01	1°32'33	conjunction	-2618 Dec 04 j 09:55	22° M 36'39	1°01'15
min. Earth dist.	-2624 May 22 j 04:41	8° M 22'21	29.17975 AU	minimum elong	-2618 Dec 04 j 09:55	22° M 36'39	1°01'11
direct	-2624 Aug 10 j 09:58	6° M 58'46		max. Earth dist.	-2618 Dec 04 j 20:28	22° M 37'39	31.13479 AU
evening set	-2624 Nov 05 j 20:53	8° M 52'22		morning rise	-2618 Dec 19 j 17:06	23° M 11'13	

Attention, astronomical year style is used: The year -2617 in astronomical counting style is the year 2618 BCE in historical counting style.

retrograde	-2617 Mar 19 j 12:13	25° $\overline{\text{M}}$ 07'57		evening set	-2611 Dec 03 j 23:11	7° \times 27'04	
opposition	-2617 Jun 08 j 05:20	23° $\overline{\text{M}}$ 44'08	1°03'08				
min. Earth dist.	-2617 Jun 07 j 18:17	23° $\overline{\text{M}}$ 44'52	29.13048 AU	conjunction	-2611 Dec 19 j 07:07	8° \times 01'40	0°29'42
direct	-2617 Aug 26 j 15:02	22° $\overline{\text{M}}$ 21'13		minimum elong	-2611 Dec 19 j 07:07	8° \times 01'40	0°29'39
evening set	-2617 Nov 21 j 13:58	24° $\overline{\text{M}}$ 14'22		max. Earth dist.	-2611 Dec 19 j 23:26	8° \times 03'12	31.06632 AU
				morning rise	-2610 Jan 03 j 17:33	8° \times 36'32	
conjunction	-2617 Dec 06 j 19:41	24° $\overline{\text{M}}$ 48'47	0°56'57	retrograde	-2610 Apr 04 j 00:25	10° \times 33'59	
minimum elong	-2617 Dec 06 j 19:42	24° $\overline{\text{M}}$ 48'47	0°56'54	min. Earth dist.	-2610 Jun 23 j 07:25	9° \times 10'48	29.06296 AU
max. Earth dist.	-2617 Dec 07 j 05:54	24° $\overline{\text{M}}$ 49'45	31.12519 AU	opposition	-2610 Jun 24 j 00:38	9° \times 09'38	0°29'09
morning rise	-2617 Dec 22 j 03:28	25° $\overline{\text{M}}$ 23'23		direct	-2610 Sep 10 j 21:00	7° \times 46'48	
retrograde	-2616 Mar 21 j 00:59	27° $\overline{\text{M}}$ 20'14		evening set	-2610 Dec 06 j 08:54	9° \times 39'29	
opposition	-2616 Jun 09 j 18:36	25° $\overline{\text{M}}$ 56'19	0°58'30				
min. Earth dist.	-2616 Jun 09 j 07:29	25° $\overline{\text{M}}$ 57'04	29.12037 AU	conjunction	-2610 Dec 21 j 17:04	10° \times 14'07	0°24'57
direct	-2616 Aug 28 j 01:28	24° $\overline{\text{M}}$ 33'25		minimum elong	-2610 Dec 21 j 17:05	10° \times 14'07	0°24'53
evening set	-2616 Nov 22 j 23:20	26° $\overline{\text{M}}$ 26'28		max. Earth dist.	-2610 Dec 22 j 09:46	10° \times 15'42	31.05937 AU
				morning rise	-2609 Jan 06 j 04:05	10° \times 49'02	
conjunction	-2616 Dec 08 j 05:35	27° $\overline{\text{M}}$ 00'55	0°52'35	retrograde	-2609 Apr 06 j 13:53	12° \times 46'37	
minimum elong	-2616 Dec 08 j 05:36	27° $\overline{\text{M}}$ 00'55	0°52'31	opposition	-2609 Jun 26 j 13:47	11° \times 22'14	0°24'03
max. Earth dist.	-2616 Dec 08 j 17:31	27° $\overline{\text{M}}$ 02'03	31.11464 AU	min. Earth dist.	-2609 Jun 25 j 20:41	11° \times 23'23	29.05638 AU
morning rise	-2616 Dec 23 j 13:41	27° $\overline{\text{M}}$ 35'34		direct	-2609 Sep 13 j 07:07	9° \times 59'26	
retrograde	-2615 Mar 23 j 12:03	29° $\overline{\text{M}}$ 32'30		evening set	-2609 Dec 08 j 18:43	11° \times 52'07	
opposition	-2615 Jun 12 j 07:43	28° $\overline{\text{M}}$ 08'29	0°53'47				
min. Earth dist.	-2615 Jun 11 j 19:43	28° $\overline{\text{M}}$ 09'18	29.10940 AU	conjunction	-2609 Dec 24 j 03:25	12° \times 26'47	0°20'10
direct	-2615 Aug 30 j 15:02	26° $\overline{\text{M}}$ 45'35		minimum elong	-2609 Dec 24 j 03:25	12° \times 26'47	0°20'06
evening set	-2615 Nov 25 j 08:56	28° $\overline{\text{M}}$ 38'33		max. Earth dist.	-2609 Dec 24 j 21:46	12° \times 28'31	31.05306 AU
				morning rise	-2608 Jan 08 j 14:46	13° \times 01'43	
conjunction	-2615 Dec 10 j 15:20	29° $\overline{\text{M}}$ 13'02	0°48'08	retrograde	-2608 Apr 08 j 03:18	14° \times 59'26	
minimum elong	-2615 Dec 10 j 15:20	29° $\overline{\text{M}}$ 13'02	0°48'04	min. Earth dist.	-2608 Jun 27 j 08:09	13° \times 36'17	29.05009 AU
max. Earth dist.	-2615 Dec 11 j 03:02	29° $\overline{\text{M}}$ 14'08	31.10363 AU	opposition	-2608 Jun 28 j 02:40	13° \times 35'01	0°18'54
morning rise	-2615 Dec 26 j 00:01	29° $\overline{\text{M}}$ 47'43		direct	-2608 Sep 14 j 18:40	12° \times 12'16	
	-2615 Dec 31 j 14:23	0° \times		evening set	-2608 Dec 10 j 04:49	14° \times 04'56	
retrograde	-2614 Mar 26 j 01:25	1° \times 44'45					
opposition	-2614 Jun 14 j 20:42	0° \times 20'38	0°48'59	conjunction	-2608 Dec 25 j 13:45	14° \times 39'38	0°15'21
min. Earth dist.	-2614 Jun 14 j 07:39	0° \times 21'31	29.09844 AU	minimum elong	-2608 Dec 25 j 13:45	14° \times 39'38	0°15'16
	-2614 Jun 27 j 15:38	30° \times $\overline{\text{M}}$		behind sun begin	-2608 Dec 25 j 11:32	14° \times 39'26	
direct	-2614 Sep 02 j 02:07	28° $\overline{\text{M}}$ 57'43		behind sun end	-2608 Dec 25 j 15:58	14° \times 39'50	
	-2614 Nov 03 j 05:24	0° \times		max. Earth dist.	-2608 Dec 26 j 07:46	14° \times 41'20	31.04675 AU
evening set	-2614 Nov 27 j 18:24	0° \times 50'37		morning rise	-2607 Jan 10 j 01:46	15° \times 14'38	
				retrograde	-2607 Apr 10 j 17:08	17° \times 12'28	
conjunction	-2614 Dec 13 j 01:15	1° \times 25'07	0°43'37	opposition	-2607 Jun 30 j 15:44	15° \times 48'01	0°13'43
minimum elong	-2614 Dec 13 j 01:15	1° \times 25'07	0°43'33	min. Earth dist.	-2607 Jun 29 j 21:20	15° \times 49'17	29.04367 AU
max. Earth dist.	-2614 Dec 13 j 14:45	1° \times 26'24	31.09282 AU	direct	-2607 Sep 17 j 04:41	14° \times 25'18	
morning rise	-2614 Dec 28 j 10:15	1° \times 59'51		evening set	-2607 Dec 12 j 14:58	16° \times 17'57	
retrograde	-2613 Mar 28 j 11:40	3° \times 56'58					
opposition	-2613 Jun 17 j 09:49	2° \times 32'46	0°44'08	conjunction	-2607 Dec 28 j 00:25	16° \times 52'41	0°10'30
min. Earth dist.	-2613 Jun 16 j 20:19	2° \times 33'42	29.08797 AU	minimum elong	-2607 Dec 28 j 00:24	16° \times 52'41	0°10'26
direct	-2613 Sep 04 j 14:04	1° \times 09'52		behind sun begin	-2607 Dec 27 j 19:20	16° \times 52'14	
evening set	-2613 Nov 30 j 03:54	3° \times 02'41		behind sun end	-2607 Dec 28 j 05:29	16° \times 53'09	
				max. Earth dist.	-2607 Dec 28 j 19:55	16° \times 54'32	31.03992 AU
conjunction	-2613 Dec 15 j 11:02	3° \times 37'12	0°39'02	morning rise	-2606 Jan 12 j 12:41	17° \times 27'43	
minimum elong	-2613 Dec 15 j 11:02	3° \times 37'13	0°38'58	retrograde	-2606 Apr 13 j 06:10	19° \times 25'39	
max. Earth dist.	-2613 Dec 16 j 01:04	3° \times 38'32	31.08294 AU	min. Earth dist.	-2606 Jul 02 j 09:41	18° \times 02'29	29.03638 AU
morning rise	-2613 Dec 30 j 20:34	4° \times 11'59		opposition	-2606 Jul 03 j 04:39	18° \times 01'11	0°08'31
retrograde	-2612 Mar 29 j 23:52	6° \times 09'13		direct	-2606 Sep 19 j 18:08	16° \times 38'29	
opposition	-2612 Jun 18 j 22:49	4° \times 44'57	0°39'12	evening set	-2606 Dec 15 j 01:23	18° \times 31'07	
min. Earth dist.	-2612 Jun 18 j 07:32	4° \times 45'59	29.07859 AU				
direct	-2612 Sep 06 j 00:33	3° \times 22'03		conjunction	-2606 Dec 30 j 11:04	19° \times 05'53	0°05'39
evening set	-2612 Dec 01 j 13:33	5° \times 14'49		minimum elong	-2606 Dec 30 j 11:04	19° \times 05'53	0°05'34
				behind sun begin	-2606 Dec 30 j 04:53	19° \times 05'20	
conjunction	-2612 Dec 16 j 21:03	5° \times 49'23	0°34'24	behind sun end	-2606 Dec 30 j 17:16	19° \times 06'27	
minimum elong	-2612 Dec 16 j 21:03	5° \times 49'23	0°34'20	max. Earth dist.	-2606 Dec 31 j 05:54	19° \times 07'40	31.03222 AU
max. Earth dist.	-2612 Dec 17 j 12:17	5° \times 50'49	31.07402 AU	morning rise	-2605 Jan 14 j 23:59	19° \times 40'58	
morning rise	-2611 Jan 01 j 07:03	6° \times 24'12		retrograde	-2605 Apr 15 j 20:56	21° \times 38'59	
retrograde	-2611 Apr 01 j 11:20	8° \times 21'32		opposition	-2605 Jul 04 j 17:44	20° \times 14'28	0°03'18
opposition	-2611 Jun 21 j 11:45	6° \times 57'13	0°34'12	min. Earth dist.	-2605 Jul 04 j 22:15	20° \times 15'47	29.02814 AU
min. Earth dist.	-2611 Jun 20 j 20:31	6° \times 58'15	29.07027 AU	direct	-2605 Sep 22 j 05:28	18° \times 51'46	
direct	-2611 Sep 08 j 09:57	5° \times 34'21		evening set	-2605 Dec 17 j 11:44	20° \times 44'21	

Attention, astronomical year style is used: The year -2604 in astronomical counting style is the year 2605 BCE in historical counting style.

conjunction	-2604 Jan 01 j 21:55	21° \nearrow 19'10	0°00'44	morning rise	-2599 Jan 27 j 20:32	3° \searrow 00'15	
minimum elong	-2604 Jan 01 j 21:57	21° \nearrow 19'10	0°00'40	retrograde	-2599 Apr 28 j 22:28	4° \searrow 58'39	
behind sun begin	-2604 Jan 01 j 15:31	21° \nearrow 18'35		opposition	-2599 Jul 18 j 22:34	3° \searrow 33'38	-0°27'49
behind sun end	-2604 Jan 02 j 04:22	21° \nearrow 19'44		min. Earth dist.	-2599 Jul 18 j 00:15	3° \searrow 35'10	28.96697 AU
max. Earth dist.	-2604 Jan 02 j 17:52	21° \nearrow 21'02	31.02326 AU	direct	-2599 Oct 05 j 00:54	2° \searrow 10'44	
morning rise	-2604 Jan 17 j 11:15	21° \nearrow 54'17		evening set	-2599 Dec 30 j 03:17	4° \searrow 03'08	
desc. node	-2604 Feb 23 j 17:00	23° \nearrow 07'17					
retrograde	-2604 Apr 17 j 08:02	23° \nearrow 52'23		conjunction	-2598 Jan 14 j 15:50	4° \searrow 38'06	-0°28'22
min. Earth dist.	-2604 Jul 06 j 11:34	22° \nearrow 29'06	29.01852 AU	minimum elong	-2598 Jan 14 j 15:50	4° \searrow 38'06	0°28'26
opposition	-2604 Jul 07 j 06:49	22° \nearrow 27'47	-0°01'55	max. Earth dist.	-2598 Jan 15 j 14:10	4° \searrow 40'13	30.96254 AU
direct	-2604 Sep 23 j 17:41	21° \nearrow 05'04		morning rise	-2598 Jan 30 j 08:09	5° \searrow 13'26	
evening set	-2604 Dec 18 j 22:17	22° \nearrow 57'36		retrograde	-2598 May 01 j 12:26	7° \searrow 11'55	
				opposition	-2598 Jul 21 j 11:14	5° \searrow 46'52	-0°32'55
conjunction	-2603 Jan 03 j 08:54	23° \nearrow 32'26	-0°04'15	min. Earth dist.	-2598 Jul 20 j 12:56	5° \searrow 48'24	28.95913 AU
minimum elong	-2603 Jan 03 j 08:53	23° \nearrow 32'26	0°04'19	direct	-2598 Oct 07 j 10:45	4° \searrow 23'57	
behind sun begin	-2603 Jan 03 j 02:34	23° \nearrow 31'52		evening set	-2597 Jan 01 j 14:03	6° \searrow 16'22	
behind sun end	-2603 Jan 03 j 15:13	23° \nearrow 33'01					
max. Earth dist.	-2603 Jan 04 j 04:36	23° \nearrow 34'18	31.01319 AU	conjunction	-2597 Jan 17 j 03:11	6° \searrow 51'23	-0°33'07
morning rise	-2603 Jan 18 j 22:45	24° \nearrow 07'35		minimum elong	-2597 Jan 17 j 03:10	6° \searrow 51'23	0°33'11
retrograde	-2603 Apr 19 j 21:01	26° \nearrow 05'45		max. Earth dist.	-2597 Jan 18 j 03:12	6° \searrow 53'39	30.95521 AU
opposition	-2603 Jul 09 j 19:33	24° \nearrow 41'04	-0°07'08	morning rise	-2597 Feb 01 j 19:48	7° \searrow 26'45	
min. Earth dist.	-2603 Jul 08 j 23:20	24° \nearrow 42'27	29.00797 AU	retrograde	-2597 May 04 j 02:02	9° \searrow 25'19	
direct	-2603 Sep 26 j 05:15	23° \nearrow 18'18		opposition	-2597 Jul 23 j 23:49	8° \searrow 00'14	-0°37'58
evening set	-2603 Dec 21 j 08:50	25° \nearrow 10'47		min. Earth dist.	-2597 Jul 23 j 00:45	8° \searrow 01'50	28.95230 AU
				direct	-2597 Oct 09 j 23:31	6° \searrow 37'21	
conjunction	-2602 Jan 05 j 19:48	25° \nearrow 45'39	-0°09'06	evening set	-2596 Jan 04 j 01:01	8° \searrow 29'48	
minimum elong	-2602 Jan 05 j 19:49	25° \nearrow 45'39	0°09'10				
behind sun begin	-2602 Jan 05 j 14:20	25° \nearrow 45'10		conjunction	-2596 Jan 19 j 14:28	9° \searrow 04'50	-0°37'49
behind sun end	-2602 Jan 06 j 01:17	25° \nearrow 46'09		minimum elong	-2596 Jan 19 j 14:28	9° \searrow 04'50	0°37'53
max. Earth dist.	-2602 Jan 06 j 16:06	25° \nearrow 47'34	31.00222 AU	max. Earth dist.	-2596 Jan 20 j 14:00	9° \searrow 07'04	30.94888 AU
morning rise	-2602 Jan 21 j 10:10	26° \nearrow 20'51		morning rise	-2596 Feb 04 j 07:44	9° \searrow 40'15	
retrograde	-2602 Apr 22 j 08:46	28° \nearrow 19'03		retrograde	-2596 May 05 j 17:09	11° \searrow 38'54	
opposition	-2602 Jul 12 j 08:30	26° \nearrow 54'16	-0°12'20	opposition	-2596 Jul 25 j 12:26	10° \searrow 13'50	-0°42'58
min. Earth dist.	-2602 Jul 11 j 12:52	26° \nearrow 55'37	28.99689 AU	min. Earth dist.	-2596 Jul 24 j 12:53	10° \searrow 15'27	28.94635 AU
direct	-2602 Sep 28 j 15:57	25° \nearrow 31'28		direct	-2596 Oct 11 j 10:21	8° \searrow 50'57	
evening set	-2602 Dec 23 j 19:12	27° \nearrow 23'54		evening set	-2595 Jan 05 j 12:11	10° \searrow 43'26	
conjunction	-2601 Jan 08 j 06:40	27° \nearrow 58'47	-0°13'57	conjunction	-2595 Jan 21 j 02:07	11° \searrow 18'31	-0°42'27
minimum elong	-2601 Jan 08 j 06:40	27° \nearrow 58'47	0°14'02	minimum elong	-2595 Jan 21 j 02:06	11° \searrow 18'31	0°42'32
behind sun begin	-2601 Jan 08 j 03:22	27° \nearrow 58'30		max. Earth dist.	-2595 Jan 22 j 02:47	11° \searrow 20'51	30.94300 AU
behind sun end	-2601 Jan 08 j 09:58	27° \nearrow 59'05		morning rise	-2595 Feb 05 j 19:43	11° \searrow 53'58	
max. Earth dist.	-2601 Jan 09 j 03:47	28° \nearrow 00'47	30.99123 AU	retrograde	-2595 May 08 j 05:18	13° \searrow 52'42	
morning rise	-2601 Jan 23 j 21:27	28° \nearrow 34'01		min. Earth dist.	-2595 Jul 27 j 01:37	12° \searrow 29'15	28.94060 AU
	-2601 Mar 10 j 19:24	0° \searrow		opposition	-2595 Jul 28 j 00:52	12° \searrow 27'38	-0°47'54
retrograde	-2601 Apr 24 j 21:11	0° \searrow 32'17		direct	-2595 Oct 13 j 22:00	11° \searrow 04'47	
	-2601 Jun 10 j 10:29	30° \nearrow		evening set	-2594 Jan 07 j 23:31	12° \searrow 57'19	
opposition	-2601 Jul 14 j 21:16	29° \nearrow 07'24	-0°17'32				
min. Earth dist.	-2601 Jul 13 j 23:59	29° \nearrow 08'52	28.98607 AU	conjunction	-2594 Jan 23 j 13:49	13° \searrow 32'26	-0°47'03
direct	-2601 Oct 01 j 03:41	27° \nearrow 44'33		minimum elong	-2594 Jan 23 j 13:49	13° \searrow 32'26	0°47'06
evening set	-2601 Dec 26 j 05:53	29° \nearrow 36'58		max. Earth dist.	-2594 Jan 24 j 14:14	13° \searrow 34'45	30.93729 AU
	-2600 Jan 05 j 12:10	0° \searrow		morning rise	-2594 Feb 08 j 07:55	14° \searrow 07'55	
conjunction	-2600 Jan 10 j 17:38	0° \searrow 11'52	-0°18'47	retrograde	-2594 May 10 j 19:59	16° \searrow 06'44	
minimum elong	-2600 Jan 10 j 17:38	0° \searrow 11'52	0°18'51	opposition	-2594 Jul 30 j 13:25	14° \searrow 41'40	-0°52'46
max. Earth dist.	-2600 Jan 11 j 14:47	0° \searrow 13'52	30.98063 AU	min. Earth dist.	-2594 Jul 29 j 13:23	14° \searrow 43'20	28.93478 AU
morning rise	-2600 Jan 26 j 09:01	0° \searrow 47'08		direct	-2594 Oct 16 j 09:38	13° \searrow 18'50	
retrograde	-2600 Apr 26 j 09:38	2° \searrow 45'28		evening set	-2593 Jan 10 j 10:54	15° \searrow 11'24	
opposition	-2600 Jul 16 j 09:59	1° \searrow 20'30	-0°22'42	conjunction	-2593 Jan 26 j 01:34	15° \searrow 46'33	-0°51'34
min. Earth dist.	-2600 Jul 15 j 13:07	1° \searrow 21'57	28.97602 AU	minimum elong	-2593 Jan 26 j 01:34	15° \searrow 46'33	0°51'38
	-2600 Sep 20 j 18:38	30° \nearrow		max. Earth dist.	-2593 Jan 27 j 02:15	15° \searrow 48'53	30.93104 AU
direct	-2600 Oct 02 j 13:31	29° \nearrow 57'37		morning rise	-2593 Feb 10 j 20:07	16° \searrow 22'04	
	-2600 Oct 14 j 07:49	0° \searrow		retrograde	-2593 May 13 j 08:58	18° \searrow 20'59	
evening set	-2600 Dec 27 j 16:29	1° \searrow 50'01		min. Earth dist.	-2593 Aug 01 j 03:04	16° \searrow 57'29	28.92822 AU
				opposition	-2593 Aug 02 j 02:05	16° \searrow 55'54	-0°57'34
conjunction	-2599 Jan 12 j 04:49	2° \searrow 24'58	-0°23'36	direct	-2593 Oct 18 j 20:24	15° \searrow 33'03	
minimum elong	-2599 Jan 12 j 04:49	2° \searrow 24'58	0°23'40	evening set	-2592 Jan 12 j 22:31	17° \searrow 25'39	
max. Earth dist.	-2599 Jan 13 j 03:30	2° \searrow 27'06	30.97107 AU				

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Attention, astronomical year style is used: The year -2592 in astronomical counting style is the year 2593 BCE in historical counting style.

conjunction	-2592 Jan 28 j 13:42	18°30'50	-0°56'00	retrograde	-2586 May 29 j 03:12	4°00'49	
minimum elong	-2592 Jan 28 j 13:42	18°30'50	0°56'03	opposition	-2586 Aug 17 j 15:42	2°35'21	-1°28'17
max. Earth dist.	-2592 Jan 29 j 14:30	18°30'11	30.92403 AU	min. Earth dist.	-2586 Aug 16 j 16:12	2°36'59	28.87274 AU
morning rise	-2592 Feb 13 j 08:38	18°36'23		direct	-2586 Nov 03 j 03:00	1°12'06	
retrograde	-2592 May 14 j 21:33	20°35'21		evening set	-2585 Jan 28 j 09:26	3°04'50	
opposition	-2592 Aug 03 j 14:27	19°31'14	-1°02'16				
min. Earth dist.	-2592 Aug 02 j 14:34	19°31'53	28.92070 AU	conjunction	-2585 Feb 13 j 03:29	3°40'10	-1°24'22
direct	-2592 Oct 20 j 08:14	17°34'21		minimum elong	-2585 Feb 13 j 03:28	3°40'10	1°24'26
evening set	-2591 Jan 14 j 10:20	19°39'59		max. Earth dist.	-2585 Feb 14 j 04:44	3°42'33	30.86949 AU
				morning rise	-2585 Mar 01 j 01:24	4°15'52	
conjunction	-2591 Jan 30 j 01:49	20°31'11	-1°00'22	retrograde	-2585 May 31 j 18:33	6°14'55	
minimum elong	-2591 Jan 30 j 01:49	20°31'11	1°00'26	min. Earth dist.	-2585 Aug 19 j 03:21	4°51'08	28.86844 AU
max. Earth dist.	-2591 Jan 31 j 01:50	20°31'27	30.91589 AU	opposition	-2585 Aug 20 j 03:41	4°49'26	-1°32'12
morning rise	-2591 Feb 14 j 21:18	20°35'04		direct	-2585 Nov 05 j 15:16	3°26'09	
retrograde	-2591 May 17 j 09:40	22°34'45		evening set	-2584 Jan 30 j 21:41	5°18'56	
min. Earth dist.	-2591 Aug 05 j 04:12	21°32'10	28.91218 AU				
opposition	-2591 Aug 06 j 03:00	21°32'43	-1°06'53	conjunction	-2584 Feb 15 j 16:07	5°54'19	-1°27'58
direct	-2591 Oct 22 j 18:04	20°30'14		minimum elong	-2584 Feb 15 j 16:07	5°54'19	1°28'00
evening set	-2590 Jan 16 j 21:54	21°35'17		max. Earth dist.	-2584 Feb 16 j 17:45	5°56'44	30.86571 AU
				morning rise	-2584 Mar 02 j 14:26	6°30'03	
conjunction	-2590 Feb 01 j 13:57	22°32'31	-1°04'38	retrograde	-2584 Jun 02 j 07:09	8°29'06	
minimum elong	-2590 Feb 01 j 13:57	22°32'31	1°04'41	opposition	-2584 Aug 21 j 15:36	7°03'37	-1°35'58
max. Earth dist.	-2590 Feb 02 j 14:51	22°31'52	30.90700 AU	min. Earth dist.	-2584 Aug 20 j 16:12	7°05'16	28.86535 AU
morning rise	-2590 Feb 17 j 09:43	23°30'06		direct	-2584 Nov 07 j 02:18	5°40'20	
retrograde	-2590 May 19 j 22:14	25°30'08		evening set	-2583 Feb 01 j 09:59	7°33'11	
opposition	-2590 Aug 08 j 15:16	23°38'54	-1°11'23				
min. Earth dist.	-2590 Aug 07 j 15:39	23°34'03	28.90304 AU	conjunction	-2583 Feb 17 j 04:55	8°08'35	-1°31'26
direct	-2590 Oct 25 j 05:24	22°31'54		minimum elong	-2583 Feb 17 j 04:54	8°08'35	1°31'30
evening set	-2589 Jan 19 j 09:48	24°30'32		max. Earth dist.	-2583 Feb 18 j 06:44	8°11'01	30.86318 AU
				morning rise	-2583 Mar 05 j 03:34	8°44'20	
conjunction	-2589 Feb 04 j 02:05	24°34'47	-1°08'48	retrograde	-2583 Jun 04 j 20:44	10°43'25	
minimum elong	-2589 Feb 04 j 02:05	24°34'47	1°08'52	min. Earth dist.	-2583 Aug 23 j 03:09	9°19'40	28.86323 AU
max. Earth dist.	-2589 Feb 05 j 02:05	24°34'02	30.89782 AU	opposition	-2583 Aug 24 j 03:27	9°17'58	-1°39'36
morning rise	-2589 Feb 19 j 22:27	25°31'24		direct	-2583 Nov 09 j 14:03	7°54'41	
retrograde	-2589 May 22 j 11:36	27°31'26		evening set	-2582 Feb 03 j 22:25	9°47'36	
min. Earth dist.	-2589 Aug 10 j 04:34	25°35'43	28.89411 AU				
opposition	-2589 Aug 11 j 03:34	25°35'07	-1°15'47	conjunction	-2582 Feb 19 j 17:36	10°23'01	-1°34'45
direct	-2589 Oct 27 j 15:48	24°33'02		minimum elong	-2582 Feb 19 j 17:36	10°23'01	1°34'48
evening set	-2588 Jan 21 j 21:32	26°32'41		max. Earth dist.	-2582 Feb 20 j 18:47	10°25'24	30.86122 AU
				morning rise	-2582 Mar 07 j 16:42	10°58'49	
conjunction	-2588 Feb 06 j 14:25	26°35'57	-1°12'51	retrograde	-2582 Jun 07 j 09:38	12°57'55	
minimum elong	-2588 Feb 06 j 14:25	26°35'57	1°12'55	opposition	-2582 Aug 26 j 15:28	11°32'30	-1°43'05
max. Earth dist.	-2588 Feb 07 j 15:42	27°30'20	30.88905 AU	min. Earth dist.	-2582 Aug 25 j 16:21	11°34'07	28.86153 AU
morning rise	-2588 Feb 22 j 11:03	27°33'35		direct	-2582 Nov 11 j 23:49	10°09'13	
retrograde	-2588 May 24 j 00:23	29°32'37		evening set	-2581 Feb 06 j 11:01	12°02'13	
opposition	-2588 Aug 12 j 15:40	28°30'14	-1°20'05				
min. Earth dist.	-2588 Aug 11 j 16:16	28°30'52	28.88574 AU	conjunction	-2581 Feb 22 j 06:45	12°37'40	-1°37'56
direct	-2588 Oct 29 j 04:29	26°34'05		minimum elong	-2581 Feb 22 j 06:45	12°37'40	1°38'00
evening set	-2587 Jan 23 j 09:34	28°36'45		max. Earth dist.	-2581 Feb 23 j 08:30	12°40'05	30.85951 AU
				morning rise	-2581 Mar 10 j 06:05	13°13'28	
conjunction	-2587 Feb 08 j 02:43	29°31'03	-1°16'49		-2581 May 13 j 02:26	15°	
minimum elong	-2587 Feb 08 j 02:42	29°31'02	1°16'53	retrograde	-2581 Jun 09 j 22:53	15°12'36	
max. Earth dist.	-2587 Feb 09 j 03:08	29°31'42	30.88117 AU		-2581 Jul 08 j 02:56	15°	
morning rise	-2587 Feb 23 j 23:52	29°34'42		min. Earth dist.	-2581 Aug 28 j 03:44	13°48'52	28.85967 AU
	-2587 Mar 01 j 15:13	0°		opposition	-2581 Aug 29 j 03:15	13°47'12	-1°46'24
retrograde	-2587 May 26 j 14:35	1°46'44		direct	-2581 Nov 14 j 11:04	12°23'55	
min. Earth dist.	-2587 Aug 14 j 04:00	0°22'56	28.87859 AU	evening set	-2580 Feb 08 j 23:58	14°17'00	
opposition	-2587 Aug 15 j 03:39	0°21'18	-1°24'15				
	-2587 Aug 28 j 00:05	30°		conjunction	-2580 Feb 24 j 19:57	14°52'28	-1°40'59
direct	-2587 Oct 31 j 15:05	28°35'05		minimum elong	-2580 Feb 24 j 19:57	14°52'28	1°41'01
	-2586 Jan 01 j 04:00	0°		max. Earth dist.	-2580 Feb 25 j 20:12	14°54'45	30.85729 AU
evening set	-2586 Jan 25 j 21:30	0°50'47			-2580 Feb 28 j 03:55	15°	
				morning rise	-2580 Mar 11 j 19:50	15°28'18	
conjunction	-2586 Feb 10 j 15:08	1°26'06	-1°20'39	retrograde	-2580 Jun 11 j 12:03	17°27'26	
minimum elong	-2586 Feb 10 j 15:08	1°26'06	1°20'42	opposition	-2580 Aug 30 j 15:15	16°02'04	-1°49'34
max. Earth dist.	-2586 Feb 11 j 16:38	1°28'30	30.87454 AU	min. Earth dist.	-2580 Aug 29 j 16:55	16°03'38	28.85715 AU
morning rise	-2586 Feb 26 j 12:35	2°01'47			-2580 Oct 11 j 02:38	15°	

Attention, astronomical year style is used: The year -2580 in astronomical counting style is the year 2581 BCE in historical counting style.

direct	-2580 Nov 15 j 21:15	14° \approx 38'45		conjunction	-2573 Mar 12 j 18:07	0° \mathbb{H} 36'37	-1°57'43
	-2580 Dec 21 j 01:32	15° \approx		minimum elong	-2573 Mar 12 j 18:07	0° \mathbb{H} 36'37	1°57'46
evening set	-2579 Feb 10 j 12:52	16° \approx 31'54		max. Earth dist.	-2573 Mar 13 j 15:47	0° \mathbb{H} 38'39	30.83294 AU
				morning rise	-2573 Mar 28 j 20:20	1° \mathbb{H} 12'33	
conjunction	-2579 Feb 26 j 09:25	17° \approx 07'24	-1°43'52	retrograde	-2573 Jun 28 j 10:07	3° \mathbb{H} 11'22	
minimum elong	-2579 Feb 26 j 09:25	17° \approx 07'24	1°43'55	min. Earth dist.	-2573 Sep 15 j 04:49	1° \mathbb{H} 47'19	28.83426 AU
max. Earth dist.	-2579 Feb 27 j 10:10	17° \approx 09'44	30.85420 AU	opposition	-2573 Sep 16 j 00:12	1° \mathbb{H} 45'56	-2°06'50
morning rise	-2579 Mar 14 j 09:27	17° \approx 43'14		direct	-2573 Dec 02 j 07:42	0° \mathbb{H} 22'14	
retrograde	-2579 Jun 14 j 00:26	19° \approx 42'22		evening set	-2572 Feb 27 j 08:32	2° \mathbb{H} 15'47	
min. Earth dist.	-2579 Sep 01 j 04:57	18° \approx 18'33	28.85358 AU				
opposition	-2579 Sep 02 j 03:00	18° \approx 17'00	-1°52'34	conjunction	-2572 Mar 14 j 07:57	2° \mathbb{H} 51'26	-1°59'25
direct	-2579 Nov 18 j 09:28	16° \approx 53'38		minimum elong	-2572 Mar 14 j 07:56	2° \mathbb{H} 51'26	1°59'27
evening set	-2578 Feb 13 j 01:55	18° \approx 46'51		max. Earth dist.	-2572 Mar 15 j 06:03	2° \mathbb{H} 53'31	30.83287 AU
				morning rise	-2572 Mar 30 j 10:21	3° \mathbb{H} 27'23	
conjunction	-2578 Feb 28 j 22:44	19° \approx 22'22	-1°46'35	retrograde	-2572 Jun 29 j 22:58	5° \mathbb{H} 26'09	
minimum elong	-2578 Feb 28 j 22:44	19° \approx 22'22	1°46'37	opposition	-2572 Sep 17 j 11:28	4° \mathbb{H} 00'46	-2°08'33
max. Earth dist.	-2578 Mar 01 j 21:49	19° \approx 24'32	30.85028 AU	min. Earth dist.	-2572 Sep 16 j 15:31	4° \mathbb{H} 02'10	28.83480 AU
morning rise	-2578 Mar 16 j 23:17	19° \approx 58'13		direct	-2572 Dec 03 j 19:27	2° \mathbb{H} 37'01	
retrograde	-2578 Jun 16 j 14:44	21° \approx 57'19		evening set	-2571 Feb 28 j 21:59	4° \mathbb{H} 30'40	
opposition	-2578 Sep 04 j 14:48	20° \approx 31'56	-1°55'24				
min. Earth dist.	-2578 Sep 03 j 17:12	20° \approx 33'28	28.84941 AU	conjunction	-2571 Mar 16 j 21:36	5° \mathbb{H} 06'19	-2°00'57
direct	-2578 Nov 20 j 20:00	19° \approx 08'30		minimum elong	-2571 Mar 16 j 21:36	5° \mathbb{H} 06'19	2°00'59
evening set	-2577 Feb 15 j 14:48	21° \approx 01'47		max. Earth dist.	-2571 Mar 17 j 18:24	5° \mathbb{H} 08'17	30.83401 AU
				morning rise	-2571 Apr 02 j 00:27	5° \mathbb{H} 42'17	
conjunction	-2577 Mar 03 j 12:09	21° \approx 37'19	-1°49'09	retrograde	-2571 Jul 02 j 11:00	7° \mathbb{H} 41'01	
minimum elong	-2577 Mar 03 j 12:09	21° \approx 37'19	1°49'12	opposition	-2571 Sep 19 j 22:46	6° \mathbb{H} 15'41	-2°10'05
max. Earth dist.	-2577 Mar 04 j 11:40	21° \approx 39'32	30.84580 AU	min. Earth dist.	-2571 Sep 19 j 03:53	6° \mathbb{H} 17'01	28.83659 AU
morning rise	-2577 Mar 19 j 12:57	22° \approx 13'11		direct	-2571 Dec 06 j 05:30	4° \mathbb{H} 51'56	
retrograde	-2577 Jun 19 j 03:23	24° \approx 12'14		evening set	-2570 Mar 03 j 11:23	6° \mathbb{H} 45'39	
min. Earth dist.	-2577 Sep 06 j 05:44	22° \approx 48'18	28.84486 AU				
opposition	-2577 Sep 07 j 02:31	22° \approx 46'50	-1°58'03	conjunction	-2570 Mar 19 j 11:33	7° \mathbb{H} 21'21	-2°02'17
direct	-2577 Nov 23 j 08:21	21° \approx 23'20		minimum elong	-2570 Mar 19 j 11:33	7° \mathbb{H} 21'21	2°02'18
evening set	-2576 Feb 18 j 03:55	23° \approx 16'39		max. Earth dist.	-2570 Mar 20 j 09:03	7° \mathbb{H} 23'22	30.83624 AU
				morning rise	-2570 Apr 04 j 14:32	7° \mathbb{H} 57'19	
conjunction	-2576 Mar 05 j 01:38	23° \approx 52'13	-1°51'33	retrograde	-2570 Jul 04 j 22:54	9° \mathbb{H} 55'59	
minimum elong	-2576 Mar 05 j 01:38	23° \approx 52'13	1°51'35	opposition	-2570 Sep 22 j 10:00	8° \mathbb{H} 30'44	-2°11'24
max. Earth dist.	-2576 Mar 06 j 00:08	23° \approx 54'20	30.84139 AU	min. Earth dist.	-2570 Sep 21 j 15:22	8° \mathbb{H} 32'03	28.83910 AU
morning rise	-2576 Mar 21 j 02:52	24° \approx 28'06		direct	-2570 Dec 08 j 16:46	7° \mathbb{H} 06'58	
retrograde	-2576 Jun 20 j 18:37	26° \approx 27'05		evening set	-2569 Mar 06 j 01:01	9° \mathbb{H} 00'48	
opposition	-2576 Sep 08 j 13:54	25° \approx 01'40	-2°00'31				
min. Earth dist.	-2576 Sep 07 j 16:53	25° \approx 03'08	28.84069 AU	conjunction	-2569 Mar 22 j 01:27	9° \mathbb{H} 36'30	-2°03'25
direct	-2576 Nov 24 j 21:13	23° \approx 38'05		minimum elong	-2569 Mar 22 j 01:27	9° \mathbb{H} 36'30	2°03'27
evening set	-2575 Feb 19 j 17:04	25° \approx 31'28		max. Earth dist.	-2569 Mar 22 j 21:11	9° \mathbb{H} 38'21	30.83897 AU
				morning rise	-2569 Apr 07 j 04:55	10° \mathbb{H} 12'29	
conjunction	-2575 Mar 07 j 15:10	26° \approx 07'03	-1°53'47	retrograde	-2569 Jul 07 j 13:03	12° \mathbb{H} 11'07	
minimum elong	-2575 Mar 07 j 15:10	26° \approx 07'03	1°53'50	opposition	-2569 Sep 24 j 21:17	10° \mathbb{H} 45'55	-2°12'31
max. Earth dist.	-2575 Mar 08 j 13:40	26° \approx 09'10	30.83741 AU	min. Earth dist.	-2569 Sep 24 j 03:22	10° \mathbb{H} 47'11	28.84186 AU
morning rise	-2575 Mar 23 j 16:41	26° \approx 42'57		direct	-2569 Dec 11 j 02:38	9° \mathbb{H} 22'07	
retrograde	-2575 Jun 23 j 06:45	28° \approx 41'53		evening set	-2568 Mar 07 j 14:51	11° \mathbb{H} 16'03	
min. Earth dist.	-2575 Sep 10 j 05:40	27° \approx 17'50	28.83725 AU				
opposition	-2575 Sep 11 j 01:28	27° \approx 16'26	-2°02'49	conjunction	-2568 Mar 23 j 15:47	11° \mathbb{H} 51'47	-2°04'23
direct	-2575 Nov 27 j 08:53	25° \approx 52'48		minimum elong	-2568 Mar 23 j 15:47	11° \mathbb{H} 51'47	2°04'23
evening set	-2574 Feb 22 j 06:02	27° \approx 46'14		max. Earth dist.	-2568 Mar 24 j 11:31	11° \mathbb{H} 53'38	30.84142 AU
				morning rise	-2568 Apr 08 j 19:22	12° \mathbb{H} 27'47	
conjunction	-2574 Mar 10 j 04:34	28° \approx 21'50	-1°55'50	retrograde	-2568 Jul 09 j 00:50	14° \mathbb{H} 26'20	
minimum elong	-2574 Mar 10 j 04:34	28° \approx 21'50	1°55'52	opposition	-2568 Sep 26 j 08:28	13° \mathbb{H} 01'11	-2°13'26
max. Earth dist.	-2574 Mar 11 j 02:59	28° \approx 23'56	30.83456 AU	min. Earth dist.	-2568 Sep 25 j 15:49	13° \mathbb{H} 02'22	28.84398 AU
morning rise	-2574 Mar 26 j 06:23	28° \approx 57'45		direct	-2568 Dec 12 j 14:51	11° \mathbb{H} 37'22	
	-2574 Apr 26 j 08:11	0° \mathbb{H}		evening set	-2567 Mar 10 j 04:49	13° \mathbb{H} 31'23	
retrograde	-2574 Jun 25 j 20:45	0° \mathbb{H} 56'38					
	-2574 Aug 27 j 04:17	30° \mathbb{R}		conjunction	-2567 Mar 26 j 06:04	14° \mathbb{H} 07'08	-2°05'08
opposition	-2574 Sep 13 j 12:49	29° \approx 31'11	-2°04'55	minimum elong	-2567 Mar 26 j 06:04	14° \mathbb{H} 07'08	2°05'10
min. Earth dist.	-2574 Sep 12 j 16:13	29° \approx 32'38	28.83505 AU	max. Earth dist.	-2567 Mar 27 j 00:01	14° \mathbb{H} 08'49	30.84320 AU
direct	-2574 Nov 29 j 21:18	28° \approx 07'30		morning rise	-2567 Apr 11 j 10:01	14° \mathbb{H} 43'08	
evening set	-2573 Feb 24 j 19:17	0° \mathbb{H} 01'00		retrograde	-2567 Jul 11 j 15:26	16° \mathbb{H} 41'37	
	-2573 Feb 24 j 08:24	0° \mathbb{H}		opposition	-2567 Sep 28 j 19:43	15° \mathbb{H} 16'29	-2°14'09
				min. Earth dist.	-2567 Sep 28 j 03:18	15° \mathbb{H} 17'39	28.84527 AU

Attention, astronomical year style is used: The year -2567 in astronomical counting style is the year 2568 BCE in historical counting style.

direct	-2567 Dec 15 j 03:33	13° $\mathbf{\text{X}}$ 52'37		max. Earth dist.	-2560 Apr 11 j 22:08	29° $\mathbf{\text{X}}$ 53'02	30.84580 AU
evening set	-2566 Mar 12 j 18:37	15° $\mathbf{\text{X}}$ 46'42			-2560 Apr 15 j 00:42	0° $\mathbf{\text{Y}}$	
				morning rise	-2560 Apr 27 j 15:52	0° $\mathbf{\text{Y}}$ 27'58	
conjunction	-2566 Mar 28 j 20:16	16° $\mathbf{\text{X}}$ 22'28	-2°05'43	retrograde	-2560 Jul 27 j 07:51	2° $\mathbf{\text{Y}}$ 25'34	
minimum elong	-2566 Mar 28 j 20:16	16° $\mathbf{\text{X}}$ 22'28	2°05'43	opposition	-2560 Oct 14 j 00:11	1° $\mathbf{\text{Y}}$ 00'33	-2°13'26
max. Earth dist.	-2566 Mar 29 j 13:41	16° $\mathbf{\text{X}}$ 24'06	30.84388 AU	min. Earth dist.	-2560 Oct 13 j 13:05	1° $\mathbf{\text{Y}}$ 01'21	28.84901 AU
morning rise	-2566 Apr 14 j 00:27	16° $\mathbf{\text{X}}$ 58'29			-2560 Nov 22 j 13:12	30° $\mathbf{\text{R}}$ $\mathbf{\text{X}}$	
retrograde	-2566 Jul 14 j 03:25	18° $\mathbf{\text{X}}$ 56'52		direct	-2560 Dec 30 j 13:36	29° $\mathbf{\text{X}}$ 36'12	
opposition	-2566 Oct 01 j 07:02	17° $\mathbf{\text{X}}$ 31'45	-2°14'40		-2559 Feb 06 j 05:26	0° $\mathbf{\text{Y}}$	
min. Earth dist.	-2566 Sep 30 j 16:25	17° $\mathbf{\text{X}}$ 32'47	28.84549 AU	evening set	-2559 Mar 28 j 20:09	1° $\mathbf{\text{Y}}$ 30'40	
direct	-2566 Dec 17 j 15:23	16° $\mathbf{\text{X}}$ 07'48					
evening set	-2565 Mar 15 j 08:34	18° $\mathbf{\text{X}}$ 01'56		conjunction	-2559 Apr 14 j 00:28	2° $\mathbf{\text{Y}}$ 06'33	-2°04'24
				minimum elong	-2559 Apr 14 j 00:29	2° $\mathbf{\text{Y}}$ 06'33	2°04'24
conjunction	-2565 Mar 31 j 10:40	18° $\mathbf{\text{X}}$ 37'43	-2°06'06	max. Earth dist.	-2559 Apr 14 j 12:53	2° $\mathbf{\text{Y}}$ 07'43	30.84951 AU
minimum elong	-2565 Mar 31 j 10:40	18° $\mathbf{\text{X}}$ 37'43	2°06'07	morning rise	-2559 Apr 30 j 06:16	2° $\mathbf{\text{Y}}$ 42'37	
max. Earth dist.	-2565 Apr 01 j 03:02	18° $\mathbf{\text{X}}$ 39'15	30.84381 AU	retrograde	-2559 Jul 29 j 18:29	4° $\mathbf{\text{Y}}$ 40'06	
morning rise	-2565 Apr 16 j 15:08	19° $\mathbf{\text{X}}$ 13'44		opposition	-2559 Oct 16 j 10:55	3° $\mathbf{\text{Y}}$ 15'10	-2°12'31
retrograde	-2565 Jul 16 j 17:53	21° $\mathbf{\text{X}}$ 11'59		min. Earth dist.	-2559 Oct 16 j 00:41	3° $\mathbf{\text{Y}}$ 15'54	28.85334 AU
opposition	-2565 Oct 03 j 17:59	19° $\mathbf{\text{X}}$ 46'52	-2°14'58	direct	-2558 Jan 02 j 01:27	1° $\mathbf{\text{Y}}$ 50'48	
min. Earth dist.	-2565 Oct 03 j 03:20	19° $\mathbf{\text{X}}$ 47'55	28.84504 AU	evening set	-2558 Mar 31 j 10:01	3° $\mathbf{\text{Y}}$ 45'21	
direct	-2565 Dec 20 j 04:43	18° $\mathbf{\text{X}}$ 22'51					
evening set	-2564 Mar 16 j 22:38	20° $\mathbf{\text{X}}$ 17'01		conjunction	-2558 Apr 16 j 14:35	4° $\mathbf{\text{Y}}$ 21'15	-2°03'26
				minimum elong	-2558 Apr 16 j 14:35	4° $\mathbf{\text{Y}}$ 21'15	2°03'26
conjunction	-2564 Apr 02 j 01:02	20° $\mathbf{\text{X}}$ 52'50	-2°06'18	max. Earth dist.	-2558 Apr 17 j 01:30	4° $\mathbf{\text{Y}}$ 22'16	30.85463 AU
minimum elong	-2564 Apr 02 j 01:02	20° $\mathbf{\text{X}}$ 52'50	2°06'18	morning rise	-2558 May 02 j 20:44	4° $\mathbf{\text{Y}}$ 57'19	
max. Earth dist.	-2564 Apr 02 j 16:05	20° $\mathbf{\text{X}}$ 54'14	30.84313 AU	retrograde	-2558 Aug 01 j 08:07	6° $\mathbf{\text{Y}}$ 54'43	
morning rise	-2564 Apr 18 j 05:50	21° $\mathbf{\text{X}}$ 28'51		opposition	-2558 Oct 18 j 21:35	5° $\mathbf{\text{Y}}$ 29'52	-2°11'24
retrograde	-2564 Jul 18 j 06:55	23° $\mathbf{\text{X}}$ 26'58		min. Earth dist.	-2558 Oct 18 j 11:21	5° $\mathbf{\text{Y}}$ 30'35	28.85893 AU
opposition	-2564 Oct 05 j 05:05	22° $\mathbf{\text{X}}$ 01'51	-2°15'04	direct	-2557 Jan 04 j 13:26	4° $\mathbf{\text{Y}}$ 05'29	
min. Earth dist.	-2564 Oct 04 j 16:10	22° $\mathbf{\text{X}}$ 02'46	28.84436 AU	evening set	-2557 Apr 03 j 00:09	6° $\mathbf{\text{Y}}$ 00'08	
direct	-2564 Dec 21 j 16:24	20° $\mathbf{\text{X}}$ 37'45					
evening set	-2563 Mar 19 j 12:27	22° $\mathbf{\text{X}}$ 31'57		conjunction	-2557 Apr 19 j 05:06	6° $\mathbf{\text{Y}}$ 36'04	-2°02'17
				minimum elong	-2557 Apr 19 j 05:06	6° $\mathbf{\text{Y}}$ 36'04	2°02'17
conjunction	-2563 Apr 04 j 15:20	23° $\mathbf{\text{X}}$ 07'47	-2°06'18	max. Earth dist.	-2557 Apr 19 j 15:46	6° $\mathbf{\text{Y}}$ 37'04	30.86056 AU
minimum elong	-2563 Apr 04 j 15:21	23° $\mathbf{\text{X}}$ 07'47	2°06'19	morning rise	-2557 May 05 j 11:21	7° $\mathbf{\text{Y}}$ 12'09	
max. Earth dist.	-2563 Apr 05 j 06:16	23° $\mathbf{\text{X}}$ 09'11	30.84255 AU	retrograde	-2557 Aug 03 j 19:42	9° $\mathbf{\text{Y}}$ 09'26	
morning rise	-2563 Apr 20 j 20:15	23° $\mathbf{\text{X}}$ 43'49		opposition	-2557 Oct 21 j 08:12	7° $\mathbf{\text{Y}}$ 44'41	-2°10'04
retrograde	-2563 Jul 20 j 19:24	25° $\mathbf{\text{X}}$ 41'47		min. Earth dist.	-2557 Oct 20 j 23:47	7° $\mathbf{\text{Y}}$ 45'17	28.86507 AU
opposition	-2563 Oct 07 j 15:54	24° $\mathbf{\text{X}}$ 16'40	-2°14'58	direct	-2556 Jan 07 j 00:21	6° $\mathbf{\text{Y}}$ 20'18	
min. Earth dist.	-2563 Oct 07 j 02:47	24° $\mathbf{\text{X}}$ 17'36	28.84392 AU	evening set	-2556 Apr 04 j 14:24	8° $\mathbf{\text{Y}}$ 15'04	
direct	-2563 Dec 24 j 05:24	22° $\mathbf{\text{X}}$ 52'30					
evening set	-2562 Mar 22 j 02:26	24° $\mathbf{\text{X}}$ 46'45		conjunction	-2556 Apr 20 j 19:40	8° $\mathbf{\text{Y}}$ 51'01	-2°00'57
				minimum elong	-2556 Apr 20 j 19:41	8° $\mathbf{\text{Y}}$ 51'01	2°00'57
conjunction	-2562 Apr 07 j 05:32	25° $\mathbf{\text{X}}$ 22'35	-2°06'06	max. Earth dist.	-2556 Apr 21 j 05:06	8° $\mathbf{\text{Y}}$ 51'54	30.86687 AU
minimum elong	-2562 Apr 07 j 05:32	25° $\mathbf{\text{X}}$ 22'35	2°06'06	morning rise	-2556 May 07 j 02:08	9° $\mathbf{\text{Y}}$ 27'06	
max. Earth dist.	-2562 Apr 07 j 18:52	25° $\mathbf{\text{X}}$ 23'50	30.84249 AU	retrograde	-2556 Aug 05 j 10:06	11° $\mathbf{\text{Y}}$ 24'17	
morning rise	-2562 Apr 23 j 10:49	25° $\mathbf{\text{X}}$ 58'38		opposition	-2556 Oct 22 j 18:48	9° $\mathbf{\text{Y}}$ 59'37	-2°08'32
retrograde	-2562 Jul 23 j 07:28	27° $\mathbf{\text{X}}$ 56'28		min. Earth dist.	-2556 Oct 22 j 10:26	10° $\mathbf{\text{Y}}$ 00'13	28.87120 AU
opposition	-2562 Oct 10 j 02:45	26° $\mathbf{\text{X}}$ 31'22	-2°14'40	direct	-2555 Jan 08 j 13:44	8° $\mathbf{\text{Y}}$ 35'13	
min. Earth dist.	-2562 Oct 09 j 14:53	26° $\mathbf{\text{X}}$ 32'13	28.84443 AU	evening set	-2555 Apr 07 j 04:40	10° $\mathbf{\text{Y}}$ 30'05	
direct	-2562 Dec 26 j 15:54	25° $\mathbf{\text{X}}$ 07'07					
evening set	-2561 Mar 24 j 16:12	27° $\mathbf{\text{X}}$ 01'25		conjunction	-2555 Apr 23 j 10:09	11° $\mathbf{\text{Y}}$ 06'03	-1°59'26
				minimum elong	-2555 Apr 23 j 10:09	11° $\mathbf{\text{Y}}$ 06'03	1°59'26
conjunction	-2561 Apr 09 j 19:52	27° $\mathbf{\text{X}}$ 37'17	-2°05'44	max. Earth dist.	-2555 Apr 23 j 18:13	11° $\mathbf{\text{Y}}$ 06'48	30.87268 AU
minimum elong	-2561 Apr 09 j 19:52	27° $\mathbf{\text{X}}$ 37'17	2°05'44	morning rise	-2555 May 09 j 16:44	11° $\mathbf{\text{Y}}$ 42'08	
max. Earth dist.	-2561 Apr 10 j 09:41	27° $\mathbf{\text{X}}$ 38'34	30.84353 AU	retrograde	-2555 Aug 07 j 22:58	13° $\mathbf{\text{Y}}$ 39'13	
morning rise	-2561 Apr 26 j 01:15	28° $\mathbf{\text{X}}$ 13'20		opposition	-2555 Oct 25 j 05:35	12° $\mathbf{\text{Y}}$ 14'37	-2°06'49
	-2561 Jun 30 j 00:17	0° $\mathbf{\text{Y}}$		min. Earth dist.	-2555 Oct 24 j 23:10	12° $\mathbf{\text{Y}}$ 15'04	28.87671 AU
retrograde	-2561 Jul 25 j 19:05	0° $\mathbf{\text{Y}}$ 11'02		direct	-2554 Jan 11 j 01:48	10° $\mathbf{\text{Y}}$ 50'12	
	-2561 Aug 20 j 17:52	30° $\mathbf{\text{R}}$ $\mathbf{\text{X}}$		evening set	-2554 Apr 09 j 18:53	12° $\mathbf{\text{Y}}$ 45'07	
opposition	-2561 Oct 12 j 13:31	28° $\mathbf{\text{X}}$ 45'58	-2°14'09				
min. Earth dist.	-2561 Oct 12 j 01:55	28° $\mathbf{\text{X}}$ 46'48	28.84598 AU	conjunction	-2554 Apr 26 j 00:48	13° $\mathbf{\text{Y}}$ 21'07	-1°57'45
direct	-2561 Dec 29 j 03:41	27° $\mathbf{\text{X}}$ 21'40		minimum elong	-2554 Apr 26 j 00:48	13° $\mathbf{\text{Y}}$ 21'07	1°57'43
evening set	-2560 Mar 26 j 06:16	29° $\mathbf{\text{X}}$ 16'03		max. Earth dist.	-2554 Apr 26 j 08:05	13° $\mathbf{\text{Y}}$ 21'48	30.87786 AU
				morning rise	-2554 May 12 j 07:28	13° $\mathbf{\text{Y}}$ 57'12	
conjunction	-2560 Apr 11 j 10:06	29° $\mathbf{\text{X}}$ 51'55	-2°05'09	retrograde	-2554 Aug 10 j 11:42	15° $\mathbf{\text{Y}}$ 54'07	
minimum elong	-2560 Apr 11 j 10:06	29° $\mathbf{\text{X}}$ 51'55	2°05'09	opposition	-2554 Oct 27 j 16:07	14° $\mathbf{\text{Y}}$ 29'35	-2°04'54

Attention, astronomical year style is used: The year -2554 in astronomical counting style is the year 2555 BCE in historical counting style.

min. Earth dist.	-2554 Oct 27 j 09:56	14° Υ 30'02	28.88133 AU	morning rise	-2547 May 28 j 12:48	29° Υ 38'24	
direct	-2553 Jan 13 j 15:19	13° Υ 05'07			-2547 Jun 07 j 16:47	0° \mathcal{B}	
evening set	-2553 Apr 12 j 09:16	15° Υ 00'06		retrograde	-2547 Aug 25 j 20:11	1° \mathcal{B} 34'05	
				opposition	-2547 Nov 11 j 16:51	0° \mathcal{B} 09'50	-1°46'32
conjunction	-2553 Apr 28 j 15:21	15° Υ 36'07	-1°55'52	min. Earth dist.	-2547 Nov 11 j 16:13	0° \mathcal{B} 09'52	28.91397 AU
minimum elong	-2553 Apr 28 j 15:21	15° Υ 36'07	1°55'51		-2547 Nov 17 j 11:11	30° $\mathcal{R}\Upsilon$	
max. Earth dist.	-2553 Apr 28 j 20:31	15° Υ 36'36	30.88210 AU	direct	-2546 Jan 29 j 02:04	28° Υ 44'53	
morning rise	-2553 May 14 j 22:18	16° Υ 12'12			-2546 Apr 09 j 01:04	0° \mathcal{B}	
retrograde	-2553 Aug 13 j 00:24	18° Υ 08'58		evening set	-2546 Apr 28 j 11:53	0° \mathcal{B} 40'09	
opposition	-2553 Oct 30 j 02:47	16° Υ 44'28	-2°02'48				
min. Earth dist.	-2553 Oct 29 j 22:18	16° Υ 44'47	28.88519 AU	conjunction	-2546 May 14 j 19:36	1° \mathcal{B} 16'12	-1°38'08
direct	-2552 Jan 16 j 02:31	15° Υ 19'56		minimum elong	-2546 May 14 j 19:36	1° \mathcal{B} 16'12	1°38'06
evening set	-2552 Apr 13 j 23:29	17° Υ 14'57		max. Earth dist.	-2546 May 14 j 18:59	1° \mathcal{B} 16'09	30.91736 AU
				morning rise	-2546 May 31 j 02:58	1° \mathcal{B} 52'15	
conjunction	-2552 Apr 30 j 06:00	17° Υ 50'59	-1°53'49	retrograde	-2546 Aug 28 j 07:39	3° \mathcal{B} 47'48	
minimum elong	-2552 Apr 30 j 06:01	17° Υ 50'59	1°53'48	opposition	-2546 Nov 14 j 03:07	2° \mathcal{B} 23'38	-1°43'14
max. Earth dist.	-2552 Apr 30 j 11:02	17° Υ 51'27	30.88568 AU	min. Earth dist.	-2546 Nov 14 j 04:04	2° \mathcal{B} 23'34	28.92290 AU
morning rise	-2552 May 16 j 12:55	18° Υ 27'04		direct	-2545 Jan 31 j 13:39	0° \mathcal{B} 58'41	
retrograde	-2552 Aug 14 j 12:22	20° Υ 23'38		evening set	-2545 May 01 j 01:53	2° \mathcal{B} 54'01	
opposition	-2552 Oct 31 j 13:12	18° Υ 59'10	-2°00'32				
min. Earth dist.	-2552 Oct 31 j 09:28	18° Υ 59'26	28.88845 AU	conjunction	-2545 May 17 j 09:52	3° \mathcal{B} 30'05	-1°34'58
direct	-2551 Jan 17 j 15:13	17° Υ 34'34		minimum elong	-2545 May 17 j 09:52	3° \mathcal{B} 30'05	1°34'56
evening set	-2551 Apr 16 j 13:47	19° Υ 29'37		max. Earth dist.	-2545 May 17 j 08:46	3° \mathcal{B} 29'59	30.92696 AU
				morning rise	-2545 Jun 02 j 17:13	4° \mathcal{B} 06'08	
conjunction	-2551 May 02 j 20:23	20° Υ 05'39	-1°51'37	retrograde	-2545 Aug 30 j 20:13	6° \mathcal{B} 01'32	
minimum elong	-2551 May 02 j 20:23	20° Υ 05'39	1°51'35	opposition	-2545 Nov 16 j 13:19	4° \mathcal{B} 37'29	-1°39'47
max. Earth dist.	-2551 May 02 j 23:15	20° Υ 05'55	30.88899 AU	min. Earth dist.	-2545 Nov 16 j 14:16	4° \mathcal{B} 37'25	28.93272 AU
morning rise	-2551 May 19 j 03:34	20° Υ 41'44		direct	-2544 Feb 03 j 02:57	3° \mathcal{B} 12'33	
retrograde	-2551 Aug 16 j 23:54	22° Υ 38'07		evening set	-2544 May 02 j 16:03	5° \mathcal{B} 07'58	
opposition	-2551 Nov 02 j 23:38	21° Υ 13'41	-1°58'05				
min. Earth dist.	-2551 Nov 02 j 20:42	21° Υ 13'54	28.89186 AU	conjunction	-2544 May 19 j 00:00	5° \mathcal{B} 44'02	-1°31'40
direct	-2550 Jan 20 j 02:04	19° Υ 48'59		minimum elong	-2544 May 19 j 00:00	5° \mathcal{B} 44'02	1°31'37
evening set	-2550 Apr 19 j 03:42	21° Υ 44'04		max. Earth dist.	-2544 May 18 j 21:12	5° \mathcal{B} 43'47	30.93705 AU
				morning rise	-2544 Jun 04 j 07:24	6° \mathcal{B} 20'05	
conjunction	-2550 May 05 j 10:43	22° Υ 20'06	-1°49'14	retrograde	-2544 Sep 01 j 08:56	8° \mathcal{B} 15'21	
minimum elong	-2550 May 05 j 10:44	22° Υ 20'06	1°49'12	opposition	-2544 Nov 17 j 23:36	6° \mathcal{B} 51'24	-1°36'10
max. Earth dist.	-2550 May 05 j 13:46	22° Υ 20'23	30.89257 AU	min. Earth dist.	-2544 Nov 18 j 02:04	6° \mathcal{B} 51'14	28.94293 AU
morning rise	-2550 May 21 j 17:51	22° Υ 56'11		direct	-2543 Feb 04 j 14:03	5° \mathcal{B} 26'29	
retrograde	-2550 Aug 19 j 09:22	24° Υ 52'23		evening set	-2543 May 05 j 06:06	7° \mathcal{B} 21'59	
opposition	-2550 Nov 05 j 10:03	23° Υ 27'59	-1°55'27				
min. Earth dist.	-2550 Nov 05 j 08:16	23° Υ 28'06	28.89564 AU	conjunction	-2543 May 21 j 14:18	7° \mathcal{B} 58'04	-1°28'13
direct	-2549 Jan 22 j 14:18	22° Υ 03'12		minimum elong	-2543 May 21 j 14:19	7° \mathcal{B} 58'04	1°28'10
evening set	-2549 Apr 21 j 17:53	23° Υ 58'18		max. Earth dist.	-2543 May 21 j 11:24	7° \mathcal{B} 57'48	30.94722 AU
				morning rise	-2543 Jun 06 j 21:30	8° \mathcal{B} 34'06	
conjunction	-2549 May 08 j 01:01	24° Υ 34'21	-1°46'41	retrograde	-2543 Sep 03 j 21:02	10° \mathcal{B} 29'15	
minimum elong	-2549 May 08 j 01:02	24° Υ 34'21	1°46'39	opposition	-2543 Nov 20 j 09:56	9° \mathcal{B} 05'25	-1°32'25
max. Earth dist.	-2549 May 08 j 02:13	24° Υ 34'27	30.89690 AU	min. Earth dist.	-2543 Nov 20 j 13:12	9° \mathcal{B} 05'11	28.95275 AU
morning rise	-2549 May 24 j 08:23	25° Υ 10'25		direct	-2542 Feb 07 j 02:59	7° \mathcal{B} 40'30	
retrograde	-2549 Aug 21 j 21:44	27° Υ 06'26		evening set	-2542 May 07 j 20:14	9° \mathcal{B} 36'04	
opposition	-2549 Nov 07 j 20:13	25° Υ 42'04	-1°52'39				
min. Earth dist.	-2549 Nov 07 j 18:28	25° Υ 42'11	28.90044 AU	conjunction	-2542 May 24 j 04:22	10° \mathcal{B} 12'09	-1°24'39
direct	-2548 Jan 25 j 01:46	24° Υ 17'13		minimum elong	-2542 May 24 j 04:22	10° \mathcal{B} 12'09	1°24'36
evening set	-2548 Apr 23 j 07:58	26° Υ 12'22		max. Earth dist.	-2542 May 23 j 23:10	10° \mathcal{B} 11'40	30.95675 AU
				morning rise	-2542 Jun 09 j 11:41	10° \mathcal{B} 48'11	
conjunction	-2548 May 09 j 15:23	26° Υ 48'24	-1°44'00	retrograde	-2542 Sep 06 j 08:53	12° \mathcal{B} 43'11	
minimum elong	-2548 May 09 j 15:23	26° Υ 48'24	1°43'57	opposition	-2542 Nov 22 j 20:17	11° \mathcal{B} 19'27	-1°28'32
max. Earth dist.	-2548 May 09 j 16:31	26° Υ 48'31	30.90225 AU	min. Earth dist.	-2542 Nov 23 j 00:31	11° \mathcal{B} 19'09	28.96184 AU
morning rise	-2548 May 25 j 22:39	27° Υ 24'29		direct	-2541 Feb 09 j 14:10	9° \mathcal{B} 54'30	
retrograde	-2548 Aug 23 j 07:47	29° Υ 20'19		evening set	-2541 May 10 j 10:22	11° \mathcal{B} 50'08	
opposition	-2548 Nov 09 j 06:38	27° Υ 56'00	-1°49'41				
min. Earth dist.	-2548 Nov 09 j 06:25	27° Υ 56'01	28.90645 AU	conjunction	-2541 May 26 j 18:44	12° \mathcal{B} 26'14	-1°20'57
direct	-2547 Jan 26 j 12:30	26° Υ 31'06		minimum elong	-2541 May 26 j 18:45	12° \mathcal{B} 26'14	1°20'54
evening set	-2547 Apr 25 j 21:52	28° Υ 26'17		max. Earth dist.	-2541 May 26 j 13:18	12° \mathcal{B} 25'44	30.96531 AU
				morning rise	-2541 Jun 12 j 01:47	13° \mathcal{B} 02'15	
conjunction	-2547 May 12 j 05:26	29° Υ 02'20	-1°41'08	retrograde	-2541 Sep 08 j 18:40	14° \mathcal{B} 57'06	
minimum elong	-2547 May 12 j 05:26	29° Υ 02'20	1°41'06	opposition	-2541 Nov 25 j 06:36	13° \mathcal{B} 33'27	-1°24'31
max. Earth dist.	-2547 May 12 j 05:35	29° Υ 02'21	30.90911 AU	min. Earth dist.	-2541 Nov 25 j 12:23	13° \mathcal{B} 33'02	28.96980 AU

Attention, astronomical year style is used: The year -2540 in astronomical counting style is the year 2541 BCE in historical counting style.

direct	-2540 Feb 12 j 02:22	12° 8 08'29		minimum elong	-2534 Jun 11 j 19:24	28° 8 01'10	0°52'04
evening set	-2540 May 12 j 00:37	14° 8 04'09		max. Earth dist.	-2534 Jun 11 j 07:42	28° 8 00'05	31.01821 AU
				morning rise	-2534 Jun 28 j 01:13	28° 8 37'02	
conjunction	-2540 May 28 j 08:52	14° 8 40'15	-1°17'08		-2534 Aug 12 j 00:39	0° II	
minimum elong	-2540 May 28 j 08:53	14° 8 40'15	1°17'05	retrograde	-2534 Sep 24 j 00:53	0° II 30'47	
max. Earth dist.	-2540 May 28 j 01:08	14° 8 39'32	30.97296 AU		-2534 Nov 06 j 17:50	30° R 8	
	-2540 Jun 06 j 06:09	15° 8		opposition	-2534 Dec 10 j 06:04	29° 8 07'32	-0°53'21
morning rise	-2540 Jun 13 j 15:58	15° 8 16'15		min. Earth dist.	-2534 Dec 10 j 16:47	29° 8 06'47	29.02364 AU
retrograde	-2540 Sep 10 j 07:02	17° 8 10'56		direct	-2533 Feb 27 j 17:02	27° 8 42'18	
opposition	-2540 Nov 26 j 16:54	15° 8 47'21	-1°20'22	evening set	-2533 May 29 j 01:02	29° 8 38'15	
min. Earth dist.	-2540 Nov 26 j 22:57	15° 8 46'55	28.97702 AU		-2533 Jun 07 j 22:58	0° II	
	-2540 Dec 26 j 06:12	15° R 8					
direct	-2539 Feb 13 j 13:40	14° 8 22'20		conjunction	-2533 Jun 14 j 08:50	0° II 14'16	-0°47'39
	-2539 Apr 03 j 02:34	15° 8		minimum elong	-2533 Jun 14 j 08:51	0° II 14'16	0°47'35
evening set	-2539 May 14 j 14:28	16° 8 18'03		max. Earth dist.	-2533 Jun 13 j 19:26	0° II 13'02	31.02880 AU
				morning rise	-2533 Jun 30 j 14:31	0° II 50'07	
conjunction	-2539 May 30 j 22:51	16° 8 54'08	-1°13'12	retrograde	-2533 Sep 26 j 12:19	2° II 43'44	
minimum elong	-2539 May 30 j 22:51	16° 8 54'08	1°13'09	opposition	-2533 Dec 12 j 16:12	1° II 20'35	-0°48'32
max. Earth dist.	-2539 May 30 j 14:50	16° 8 53'24	30.97984 AU	min. Earth dist.	-2533 Dec 13 j 03:22	1° II 19'48	29.03469 AU
morning rise	-2539 Jun 16 j 05:39	17° 8 30'07			-2532 Feb 13 j 07:19	30° R 8	
retrograde	-2539 Sep 12 j 16:14	19° 8 24'39		direct	-2532 Mar 01 j 04:21	29° 8 55'21	
opposition	-2539 Nov 29 j 03:15	18° 8 01'07	-1°16'07		-2532 Mar 17 j 22:14	0° II	
min. Earth dist.	-2539 Nov 29 j 11:11	18° 8 00'33	28.98365 AU	evening set	-2532 May 30 j 14:37	1° II 51'22	
direct	-2538 Feb 16 j 00:23	16° 8 36'03					
evening set	-2538 May 17 j 04:26	18° 8 31'47		conjunction	-2532 Jun 15 j 22:25	2° II 27'22	-0°43'07
				minimum elong	-2532 Jun 15 j 22:25	2° II 27'22	0°43'03
conjunction	-2538 Jun 02 j 12:45	19° 8 07'52	-1°09'10	max. Earth dist.	-2532 Jun 15 j 09:25	2° II 26'10	31.04014 AU
minimum elong	-2538 Jun 02 j 12:46	19° 8 07'52	1°09'08	morning rise	-2532 Jul 02 j 03:37	3° II 03'12	
max. Earth dist.	-2538 Jun 02 j 03:19	19° 8 06'59	30.98650 AU	retrograde	-2532 Sep 27 j 22:32	4° II 56'41	
morning rise	-2538 Jun 18 j 19:32	19° 8 43'50		opposition	-2532 Dec 14 j 02:33	3° II 33'39	-0°43'39
retrograde	-2538 Sep 15 j 03:31	21° 8 38'11		min. Earth dist.	-2532 Dec 14 j 14:55	3° II 32'47	29.04609 AU
opposition	-2538 Dec 01 j 13:16	20° 8 14'42	-1°11'46	direct	-2531 Mar 03 j 16:38	2° II 08'27	
min. Earth dist.	-2538 Dec 01 j 21:08	20° 8 14'09	28.99022 AU	evening set	-2531 Jun 02 j 04:10	4° II 04'31	
direct	-2537 Feb 18 j 14:13	18° 8 49'35					
evening set	-2537 May 19 j 18:21	20° 8 45'21		conjunction	-2531 Jun 18 j 11:35	4° II 40'30	-0°38'30
				minimum elong	-2531 Jun 18 j 11:36	4° II 40'31	0°38'26
conjunction	-2537 Jun 05 j 02:39	21° 8 21'26	-1°05'03	max. Earth dist.	-2531 Jun 17 j 20:43	4° II 39'08	31.05161 AU
minimum elong	-2537 Jun 05 j 02:40	21° 8 21'26	1°04'59	morning rise	-2531 Jul 04 j 16:40	5° II 16'18	
max. Earth dist.	-2537 Jun 04 j 16:25	21° 8 20'29	30.99315 AU	retrograde	-2531 Sep 30 j 10:54	7° II 09'41	
morning rise	-2537 Jun 21 j 09:12	21° 8 57'22		opposition	-2531 Dec 16 j 12:47	5° II 46'45	-0°38'41
retrograde	-2537 Sep 17 j 13:53	23° 8 51'34		min. Earth dist.	-2531 Dec 17 j 01:14	5° II 45'53	29.05736 AU
opposition	-2537 Dec 03 j 23:33	22° 8 28'07	-1°07'18	direct	-2530 Mar 06 j 03:56	4° II 21'33	
min. Earth dist.	-2537 Dec 04 j 09:04	22° 8 27'26	28.99714 AU	evening set	-2530 Jun 04 j 17:46	6° II 17'40	
direct	-2536 Feb 21 j 01:52	21° 8 02'56		max. Earth dist.	-2530 Jun 20 j 10:02	6° II 52'16	31.06245 AU
evening set	-2536 May 21 j 08:04	22° 8 58'45					
				conjunction	-2530 Jun 21 j 01:06	6° II 53'39	-0°33'50
conjunction	-2536 Jun 06 j 16:19	23° 8 34'48	-1°00'49	minimum elong	-2530 Jun 21 j 01:06	6° II 53'39	0°33'47
minimum elong	-2536 Jun 06 j 16:19	23° 8 34'48	1°00'46	morning rise	-2530 Jul 07 j 05:40	7° II 29'26	
max. Earth dist.	-2536 Jun 06 j 05:37	23° 8 33'49	31.00046 AU	retrograde	-2530 Oct 02 j 19:42	9° II 22'42	
morning rise	-2536 Jun 22 j 22:39	24° 8 10'44		opposition	-2530 Dec 18 j 23:07	7° II 59'51	-0°33'41
retrograde	-2536 Sep 19 j 01:21	26° 8 04'45		min. Earth dist.	-2530 Dec 19 j 13:32	7° II 58'50	29.06775 AU
opposition	-2536 Dec 05 j 09:40	24° 8 41'22	-1°02'44	direct	-2529 Mar 08 j 14:50	6° II 34'39	
min. Earth dist.	-2536 Dec 05 j 18:58	24° 8 40'43	29.00477 AU	evening set	-2529 Jun 07 j 07:28	8° II 30'49	
direct	-2535 Feb 22 j 15:16	23° 8 16'09					
evening set	-2535 May 23 j 21:48	25° 8 12'00		conjunction	-2529 Jun 23 j 14:28	9° II 06'46	-0°29'08
				minimum elong	-2529 Jun 23 j 14:28	9° II 06'46	0°29'04
conjunction	-2535 Jun 09 j 05:51	25° 8 48'02	-0°56'31	max. Earth dist.	-2529 Jun 22 j 21:47	9° II 05'13	31.07235 AU
minimum elong	-2535 Jun 09 j 05:52	25° 8 48'02	0°56'27	morning rise	-2529 Jul 09 j 18:46	9° II 42'31	
max. Earth dist.	-2535 Jun 08 j 17:50	25° 8 46'56	31.00867 AU	retrograde	-2529 Oct 05 j 06:27	11° II 35'39	
morning rise	-2535 Jun 25 j 12:00	26° 8 23'56		opposition	-2529 Dec 21 j 09:29	10° II 12'53	-0°28'37
retrograde	-2535 Sep 21 j 13:31	28° 8 17'49		min. Earth dist.	-2529 Dec 21 j 23:51	10° II 11'52	29.07698 AU
opposition	-2535 Dec 07 j 19:52	26° 8 54'29	-0°58'05	direct	-2528 Mar 10 j 03:55	8° II 47'39	
min. Earth dist.	-2535 Dec 08 j 06:11	26° 8 53'45	29.01367 AU	evening set	-2528 Jun 08 j 20:59	10° II 43'51	
direct	-2534 Feb 25 j 03:05	25° 8 29'15		max. Earth dist.	-2528 Jun 24 j 10:11	11° II 18'10	31.08089 AU
evening set	-2534 May 26 j 11:16	27° 8 25'08					
				conjunction	-2528 Jun 25 j 03:42	11° II 19'47	-0°24'23
conjunction	-2534 Jun 11 j 19:23	28° 8 01'10	-0°52'07	minimum elong	-2528 Jun 25 j 03:42	11° II 19'47	0°24'20

Attention, astronomical year style is used: The year -2528 in astronomical counting style is the year 2529 BCE in historical counting style.

morning rise	-2528 Jul	11 j 07:31	11°II55'29		conjunction	-2522 Jul	09 j 08:13	24°II34'03	0°04'35
retrograde	-2528 Oct	06 j 16:20	13°II48'30		minimum elong	-2522 Jul	09 j 08:12	24°II34'03	0°04'38
opposition	-2528 Dec	22 j 19:59	12°II25'47	-0°23'32	behind sun begin	-2522 Jul	09 j 01:47	24°II33'29	
min. Earth dist.	-2528 Dec	23 j 12:08	12°II24'39	29.08501 AU	behind sun end	-2522 Jul	09 j 14:38	24°II34'37	
direct	-2527 Mar	12 j 14:44	11°II00'32		morning rise	-2522 Jul	25 j 09:24	25°II09'31	
evening set	-2527 Jun	11 j 10:22	12°II56'44		retrograde	-2522 Oct	20 j 09:16	27°II01'50	
					opposition	-2521 Jan	05 j 09:57	25°II39'21	0°07'21
conjunction	-2527 Jun	27 j 16:49	13°II32'38	-0°19'37	min. Earth dist.	-2521 Jan	06 j 04:19	25°II38'03	29.12655 AU
minimum elong	-2527 Jun	27 j 16:49	13°II32'38	0°19'33	direct	-2521 Mar	26 j 19:04	24°II13'54	
max. Earth dist.	-2527 Jun	26 j 22:34	13°II30'57	31.08844 AU	evening set	-2521 Jun	25 j 16:35	26°II10'14	
morning rise	-2527 Jul	13 j 20:16	14°II08'19						
retrograde	-2527 Oct	09 j 03:02	16°II01'12		conjunction	-2521 Jul	11 j 20:41	26°II45'57	0°09'22
opposition	-2527 Dec	25 j 06:14	14°II38'31	-0°18'25	minimum elong	-2521 Jul	11 j 20:41	26°II45'57	0°09'26
min. Earth dist.	-2527 Dec	25 j 22:27	14°II37'23	29.09200 AU	behind sun begin	-2521 Jul	11 j 15:15	26°II45'28	
direct	-2526 Mar	15 j 04:11	13°II13'13		behind sun end	-2521 Jul	12 j 02:08	26°II46'26	
evening set	-2526 Jun	13 j 23:43	15°II09'26		max. Earth dist.	-2521 Jul	10 j 23:38	26°II44'00	31.13092 AU
max. Earth dist.	-2526 Jun	29 j 10:02	15°II43'29	31.09505 AU	morning rise	-2521 Jul	27 j 21:10	27°II21'23	
					retrograde	-2521 Oct	22 j 17:39	29°II13'37	
conjunction	-2526 Jun	30 j 05:47	15°II45'19	-0°14'49	opposition	-2520 Jan	07 j 20:29	27°II51'13	0°12'29
minimum elong	-2526 Jun	30 j 05:47	15°II45'19	0°14'45	min. Earth dist.	-2520 Jan	08 j 16:07	27°II49'51	29.13602 AU
behind sun begin	-2526 Jun	30 j 03:20	15°II45'06		direct	-2520 Mar	28 j 06:05	26°II25'48	
behind sun end	-2526 Jun	30 j 08:14	15°II45'32		evening set	-2520 Jun	27 j 05:17	28°II22'11	
morning rise	-2526 Jul	16 j 08:51	16°II20'57		max. Earth dist.	-2520 Jul	12 j 10:59	28°II55'50	31.14090 AU
retrograde	-2526 Oct	11 j 14:22	18°II13'42						
opposition	-2526 Dec	27 j 16:38	16°II51'03	-0°13'16	conjunction	-2520 Jul	13 j 08:48	28°II57'52	0°14'09
min. Earth dist.	-2526 Dec	28 j 10:04	16°II49'50	29.09838 AU	minimum elong	-2520 Jul	13 j 08:48	28°II57'52	0°14'13
direct	-2525 Mar	17 j 16:22	15°II25'42		behind sun begin	-2520 Jul	13 j 05:47	28°II57'36	
evening set	-2525 Jun	16 j 12:54	17°II21'56		behind sun end	-2520 Jul	13 j 11:49	28°II58'08	
					morning rise	-2520 Jul	29 j 08:52	29°II33'15	
conjunction	-2525 Jul	02 j 18:43	17°II57'47	-0°10'01		-2520 Aug	11 j 01:04	0°00'	
minimum elong	-2525 Jul	02 j 18:43	17°II57'47	0°09'56	retrograde	-2520 Oct	24 j 03:51	1°00'25'27	
behind sun begin	-2525 Jul	02 j 13:26	17°II57'19		opposition	-2519 Jan	09 j 06:53	0°00'03'08	0°17'36
behind sun end	-2525 Jul	03 j 00:00	17°II58'15		min. Earth dist.	-2519 Jan	10 j 01:51	0°00'01'49	29.14629 AU
max. Earth dist.	-2525 Jul	01 j 23:10	17°II55'58	31.10123 AU		-2519 Jan	11 j 03:48	30°R II	
morning rise	-2525 Jul	18 j 21:14	18°II33'22		direct	-2519 Mar	30 j 18:09	28°II37'46	
retrograde	-2525 Oct	14 j 00:41	20°II26'00			-2519 Jun	13 j 08:10	0°00'	
opposition	-2525 Dec	30 j 02:57	19°II03'22	-0°08'07	evening set	-2519 Jun	29 j 17:59	0°00'34'11	
min. Earth dist.	-2525 Dec	30 j 20:55	19°II02'06	29.10442 AU					
direct	-2524 Mar	19 j 06:38	17°II37'58		conjunction	-2519 Jul	15 j 21:02	1°00'09'51	0°18'56
evening set	-2524 Jun	18 j 02:05	19°II34'13		minimum elong	-2519 Jul	15 j 21:02	1°00'09'51	0°19'00
max. Earth dist.	-2524 Jul	03 j 10:18	20°II08'05	31.10741 AU	max. Earth dist.	-2519 Jul	14 j 23:05	1°00'07'49	31.15128 AU
					morning rise	-2519 Jul	31 j 20:27	1°00'45'12	
conjunction	-2524 Jul	04 j 07:21	20°II10'02	-0°05'13	retrograde	-2519 Oct	26 j 13:40	3°00'37'22	
minimum elong	-2524 Jul	04 j 07:21	20°II10'02	0°05'09	opposition	-2518 Jan	11 j 17:21	2°00'15'08	0°22'42
behind sun begin	-2524 Jul	04 j 00:59	20°II09'28		min. Earth dist.	-2518 Jan	12 j 13:43	2°00'13'43	29.15679 AU
behind sun end	-2524 Jul	04 j 13:43	20°II10'36		direct	-2518 Apr	02 j 03:25	0°00'49'48	
morning rise	-2524 Jul	20 j 09:31	20°II45'35		evening set	-2518 Jul	02 j 06:39	2°00'46'17	
retrograde	-2524 Oct	15 j 11:53	22°II38'06		max. Earth dist.	-2518 Jul	17 j 10:55	3°00'19'50	31.16161 AU
opposition	-2524 Dec	31 j 13:19	21°II15'30	-0°02'58					
min. Earth dist.	-2523 Jan	01 j 07:26	21°II14'14	29.11094 AU	conjunction	-2518 Jul	18 j 09:14	3°00'21'54	0°23'41
direct	-2523 Mar	21 j 18:17	19°II50'04		minimum elong	-2518 Jul	18 j 09:14	3°00'21'54	0°23'45
evening set	-2523 Jun	20 j 14:48	21°II46'20		morning rise	-2518 Aug	03 j 08:07	3°00'57'14	
					retrograde	-2518 Oct	29 j 00:04	5°00'49'21	
conjunction	-2523 Jul	06 j 19:49	22°II22'06	-0°00'20	opposition	-2517 Jan	14 j 03:56	4°00'27'12	0°27'46
minimum elong	-2523 Jul	06 j 19:50	22°II22'06	0°00'15	min. Earth dist.	-2517 Jan	15 j 00:09	4°00'25'48	29.16672 AU
behind sun begin	-2523 Jul	06 j 13:20	22°II21'32		direct	-2517 Apr	04 j 16:20	3°00'01'54	
behind sun end	-2523 Jul	07 j 02:20	22°II22'41		evening set	-2517 Jul	04 j 19:25	4°00'58'26	
max. Earth dist.	-2523 Jul	05 j 23:36	22°II20'14	31.11420 AU					
morning rise	-2523 Jul	22 j 21:22	22°II57'37		conjunction	-2517 Jul	20 j 21:20	5°00'34'01	0°28'24
asc. node	-2523 Jul	31 j 02:03	23°II15'05		minimum elong	-2517 Jul	20 j 21:20	5°00'34'01	0°28'28
retrograde	-2523 Oct	17 j 21:29	24°II50'01		max. Earth dist.	-2517 Jul	19 j 21:50	5°00'31'50	31.17103 AU
opposition	-2522 Jan	02 j 23:45	23°II27'28	0°02'12	morning rise	-2517 Aug	05 j 19:37	6°00'09'17	
min. Earth dist.	-2522 Jan	03 j 18:42	23°II26'08	29.11815 AU	retrograde	-2517 Oct	31 j 11:23	8°00'01'22	
direct	-2522 Mar	24 j 07:23	22°II02'01		opposition	-2516 Jan	16 j 14:38	6°00'39'17	0°32'47
evening set	-2522 Jun	23 j 03:46	23°II58'18		min. Earth dist.	-2516 Jan	17 j 11:51	6°00'37'49	29.17577 AU
max. Earth dist.	-2522 Jul	08 j 10:35	24°II32'03	31.12200 AU	direct	-2516 Apr	06 j 03:54	5°00'14'00	
					evening set	-2516 Jul	06 j 08:00	7°00'10'34	

Attention, astronomical year style is used: The year -2516 in astronomical counting style is the year 2517 BCE in historical counting style.

max. Earth dist.	-2516 Jul 21 j 10:13	7° $\overline{54}$ 3'57	31.17946 AU	min. Earth dist.	-2509 Feb 01 j 17:26	21° $\overline{58}$ 21	29.21768 AU
				direct	-2509 Apr 22 j 18:35	20° $\overline{54}$ 34	
conjunction	-2516 Jul 22 j 09:28	7° $\overline{54}$ 46'06	0°33'04	evening set	-2509 Jul 22 j 20:48	22° $\overline{53}$ 1'04	
minimum elong	-2516 Jul 22 j 09:28	7° $\overline{54}$ 46'06	0°33'07				
morning rise	-2516 Aug 07 j 07:03	8° $\overline{52}$ 21'19		conjunction	-2509 Aug 07 j 17:54	23° $\overline{50}$ 6'16	1°03'56
retrograde	-2516 Nov 01 j 21:35	10° $\overline{51}$ 13'22		minimum elong	-2509 Aug 07 j 17:54	23° $\overline{50}$ 6'16	1°04'00
opposition	-2515 Jan 18 j 01:26	8° $\overline{55}$ 51'20	0°37'44	max. Earth dist.	-2509 Aug 06 j 17:14	23° $\overline{50}$ 3'58	31.22058 AU
min. Earth dist.	-2515 Jan 18 j 23:10	8° $\overline{54}$ 49'49	29.18358 AU	morning rise	-2509 Aug 23 j 11:06	23° $\overline{54}$ 41'08	
direct	-2515 Apr 08 j 17:36	7° $\overline{52}$ 26'03		retrograde	-2509 Nov 17 j 18:53	25° $\overline{53}$ 32'48	
evening set	-2515 Jul 08 j 20:29	9° $\overline{52}$ 22'37		opposition	-2508 Feb 03 j 04:55	24° $\overline{51}$ 0'51	1°10'27
				min. Earth dist.	-2508 Feb 04 j 03:26	24° $\overline{50}$ 9'18	29.22507 AU
conjunction	-2515 Jul 24 j 21:14	9° $\overline{55}$ 58'07	0°37'41	direct	-2508 Apr 24 j 07:27	22° $\overline{54}$ 5'29	
minimum elong	-2515 Jul 24 j 21:14	9° $\overline{55}$ 58'07	0°37'45	evening set	-2508 Jul 24 j 08:33	24° $\overline{54}$ 41'59	
max. Earth dist.	-2515 Jul 23 j 20:28	9° $\overline{55}$ 55'49	31.18665 AU	max. Earth dist.	-2508 Aug 08 j 03:52	25° $\overline{54}$ 14'48	31.22850 AU
morning rise	-2515 Aug 09 j 18:22	10° $\overline{53}$ 33'17					
retrograde	-2515 Nov 04 j 09:01	12° $\overline{52}$ 25'16		conjunction	-2508 Aug 09 j 04:56	25° $\overline{51}$ 7'08	1°08'01
opposition	-2514 Jan 20 j 12:09	11° $\overline{50}$ 03'15	0°42'39	minimum elong	-2508 Aug 09 j 04:56	25° $\overline{51}$ 7'08	1°08'04
min. Earth dist.	-2514 Jan 21 j 10:06	11° $\overline{50}$ 01'44	29.19029 AU	morning rise	-2508 Aug 24 j 21:30	25° $\overline{55}$ 51'57	
direct	-2514 Apr 11 j 05:04	9° $\overline{53}$ 37'58		retrograde	-2508 Nov 19 j 05:39	27° $\overline{54}$ 43'39	
evening set	-2514 Jul 11 j 08:51	11° $\overline{53}$ 34'32		opposition	-2507 Feb 04 j 15:53	26° $\overline{52}$ 21'44	1°14'46
max. Earth dist.	-2514 Jul 26 j 09:00	12° $\overline{50}$ 07'44	31.19273 AU	min. Earth dist.	-2507 Feb 05 j 14:36	26° $\overline{52}$ 20'10	29.23359 AU
				direct	-2507 Apr 26 j 17:35	24° $\overline{56}$ 56'26	
conjunction	-2514 Jul 27 j 09:12	12° $\overline{50}$ 09'59	0°42'15	evening set	-2507 Jul 26 j 20:00	26° $\overline{55}$ 52'57	
minimum elong	-2514 Jul 27 j 09:12	12° $\overline{50}$ 09'59	0°42'18				
morning rise	-2514 Aug 12 j 05:32	12° $\overline{54}$ 45'06		conjunction	-2507 Aug 11 j 15:52	27° $\overline{52}$ 28'04	1°12'00
retrograde	-2514 Nov 06 j 19:00	14° $\overline{53}$ 37'01		minimum elong	-2507 Aug 11 j 15:52	27° $\overline{52}$ 28'04	1°12'04
opposition	-2513 Jan 22 j 22:52	13° $\overline{51}$ 15'01	0°47'29	max. Earth dist.	-2507 Aug 10 j 15:51	27° $\overline{52}$ 25'49	31.23727 AU
min. Earth dist.	-2513 Jan 23 j 21:54	13° $\overline{51}$ 13'25	29.19588 AU	morning rise	-2507 Aug 27 j 07:44	28° $\overline{50}$ 02'50	
direct	-2513 Apr 13 j 19:19	11° $\overline{54}$ 49'42		retrograde	-2507 Nov 21 j 15:28	29° $\overline{54}$ 54'33	
evening set	-2513 Jul 13 j 21:17	13° $\overline{54}$ 46'16		opposition	-2506 Feb 07 j 02:56	28° $\overline{53}$ 32'42	1°18'58
				min. Earth dist.	-2506 Feb 08 j 01:43	28° $\overline{53}$ 31'08	29.24243 AU
conjunction	-2513 Jul 29 j 20:51	14° $\overline{52}$ 21'39	0°46'44	direct	-2506 Apr 29 j 06:00	27° $\overline{50}$ 07'28	
minimum elong	-2513 Jul 29 j 20:50	14° $\overline{52}$ 21'39	0°46'49	evening set	-2506 Jul 29 j 07:44	29° $\overline{50}$ 04'02	
max. Earth dist.	-2513 Jul 28 j 19:14	14° $\overline{51}$ 19'17	31.19801 AU	max. Earth dist.	-2506 Aug 13 j 01:45	29° $\overline{53}$ 36'45	31.24608 AU
morning rise	-2513 Aug 14 j 16:43	14° $\overline{55}$ 56'44					
retrograde	-2513 Nov 09 j 06:35	16° $\overline{54}$ 48'34		conjunction	-2506 Aug 14 j 02:45	29° $\overline{53}$ 39'05	1°15'53
opposition	-2512 Jan 25 j 09:36	15° $\overline{52}$ 26'34	0°52'15	minimum elong	-2506 Aug 14 j 02:45	29° $\overline{53}$ 39'05	1°15'56
min. Earth dist.	-2512 Jan 26 j 08:04	15° $\overline{52}$ 25'01	29.20096 AU		-2506 Aug 23 j 11:28	0° $\overline{51}$	
direct	-2512 Apr 15 j 08:14	14° $\overline{50}$ 01'13		morning rise	-2506 Aug 29 j 18:05	0° $\overline{51}$ 13'49	
evening set	-2512 Jul 15 j 09:12	15° $\overline{54}$ 57'46		retrograde	-2506 Nov 24 j 03:17	2° $\overline{51}$ 05'34	
max. Earth dist.	-2512 Jul 30 j 07:23	16° $\overline{53}$ 30'48	31.20285 AU	opposition	-2505 Feb 09 j 13:56	0° $\overline{51}$ 43'47	1°23'03
				min. Earth dist.	-2505 Feb 10 j 12:28	0° $\overline{51}$ 42'15	29.25118 AU
conjunction	-2512 Jul 31 j 08:18	16° $\overline{53}$ 33'06	0°51'10		-2505 Mar 09 j 10:53	30° $\overline{49}$	
minimum elong	-2512 Jul 31 j 08:17	16° $\overline{53}$ 33'06	0°51'13	direct	-2505 May 01 j 16:49	29° $\overline{51}$ 18'37	
morning rise	-2512 Aug 16 j 03:22	17° $\overline{50}$ 08'07			-2505 Jun 22 j 09:37	0° $\overline{51}$	
retrograde	-2512 Nov 10 j 14:38	18° $\overline{54}$ 59'54		evening set	-2505 Jul 31 j 19:17	1° $\overline{51}$ 15'13	
opposition	-2511 Jan 26 j 20:29	17° $\overline{53}$ 37'54	0°56'56				
min. Earth dist.	-2511 Jan 27 j 20:07	17° $\overline{53}$ 36'16	29.20590 AU	conjunction	-2505 Aug 16 j 13:47	1° $\overline{51}$ 50'13	1°19'39
direct	-2511 Apr 17 j 20:12	16° $\overline{51}$ 12'31		minimum elong	-2505 Aug 16 j 13:47	1° $\overline{51}$ 50'13	1°19'43
evening set	-2511 Jul 17 j 21:12	18° $\overline{50}$ 09'02		max. Earth dist.	-2505 Aug 15 j 13:50	1° $\overline{51}$ 47'59	31.25439 AU
				morning rise	-2505 Sep 01 j 04:17	2° $\overline{51}$ 24'54	
conjunction	-2511 Aug 02 j 19:33	18° $\overline{54}$ 44'20	0°55'30	retrograde	-2505 Nov 26 j 13:45	4° $\overline{51}$ 16'42	
minimum elong	-2511 Aug 02 j 19:33	18° $\overline{54}$ 44'20	0°55'34	opposition	-2504 Feb 12 j 01:19	2° $\overline{51}$ 54'59	1°27'01
max. Earth dist.	-2511 Aug 01 j 18:10	18° $\overline{54}$ 41'58	31.20797 AU	min. Earth dist.	-2504 Feb 13 j 00:39	2° $\overline{51}$ 53'23	29.25910 AU
morning rise	-2511 Aug 18 j 14:08	19° $\overline{54}$ 19'18		direct	-2504 May 03 j 06:25	1° $\overline{51}$ 29'52	
retrograde	-2511 Nov 13 j 00:17	21° $\overline{54}$ 11'01		evening set	-2504 Aug 02 j 06:48	3° $\overline{51}$ 26'29	
opposition	-2510 Jan 29 j 07:06	19° $\overline{54}$ 49'01	1°01'32	max. Earth dist.	-2504 Aug 16 j 23:24	3° $\overline{51}$ 59'06	31.26176 AU
min. Earth dist.	-2510 Jan 30 j 05:47	19° $\overline{54}$ 47'27	29.21132 AU				
direct	-2510 Apr 20 j 08:40	18° $\overline{52}$ 23'37		conjunction	-2504 Aug 18 j 00:27	4° $\overline{51}$ 01'27	1°23'19
evening set	-2510 Jul 20 j 09:04	20° $\overline{52}$ 20'06		minimum elong	-2504 Aug 18 j 00:27	4° $\overline{51}$ 01'27	1°23'21
max. Earth dist.	-2510 Aug 04 j 05:44	20° $\overline{53}$ 53'01	31.21370 AU	morning rise	-2504 Sep 02 j 14:28	4° $\overline{51}$ 36'05	
				retrograde	-2504 Nov 28 j 01:55	6° $\overline{51}$ 27'55	
conjunction	-2510 Aug 05 j 06:50	20° $\overline{55}$ 55'22	0°59'46	opposition	-2503 Feb 13 j 12:36	5° $\overline{51}$ 06'14	1°30'51
minimum elong	-2510 Aug 05 j 06:50	20° $\overline{55}$ 55'21	0°59'49	min. Earth dist.	-2503 Feb 14 j 11:09	5° $\overline{51}$ 04'41	29.26592 AU
morning rise	-2510 Aug 21 j 00:41	21° $\overline{53}$ 30'16		direct	-2503 May 05 j 19:00	3° $\overline{51}$ 41'11	
retrograde	-2510 Nov 15 j 09:37	23° $\overline{52}$ 21'58		evening set	-2503 Aug 04 j 18:15	5° $\overline{51}$ 37'48	
opposition	-2509 Jan 31 j 18:01	21° $\overline{55}$ 59'58	1°06'02	max. Earth dist.	-2503 Aug 19 j 10:53	6° $\overline{51}$ 10'26	31.26778 AU

Attention, astronomical year style is used: The year -2503 in astronomical counting style is the year 2504 BCE in historical counting style.

conjunction	-2503 Aug 20 j 11:22	6°Ω12'43	1°26'51	morning rise	-2497 Sep 18 j 11:27	19°Ω52'57	
minimum elong	-2503 Aug 20 j 11:21	6°Ω12'43	1°26'54	retrograde	-2497 Dec 13 j 22:12	21°Ω44'58	
morning rise	-2503 Sep 05 j 00:34	6°Ω47'19		opposition	-2496 Feb 29 j 20:57	20°Ω23'11	1°53'46
retrograde	-2503 Nov 30 j 10:43	8°Ω39'11		min. Earth dist.	-2496 Mar 01 j 18:40	20°Ω21'43	29.28779 AU
opposition	-2502 Feb 15 j 23:56	7°Ω17'31	1°34'34	direct	-2496 May 21 j 04:21	18°Ω58'15	
min. Earth dist.	-2502 Feb 16 j 23:47	7°Ω15'53	29.27134 AU	evening set	-2496 Aug 19 j 23:10	20°Ω54'37	
direct	-2502 May 08 j 06:57	5°Ω52'30					
evening set	-2502 Aug 07 j 05:46	7°Ω49'06		conjunction	-2496 Sep 04 j 11:45	21°Ω29'12	1°47'47
				minimum elong	-2496 Sep 04 j 11:44	21°Ω29'12	1°47'48
conjunction	-2502 Aug 22 j 22:06	8°Ω23'59	1°30'15	max. Earth dist.	-2496 Sep 03 j 13:30	21°Ω27'07	31.28834 AU
minimum elong	-2502 Aug 22 j 22:06	8°Ω23'59	1°30'17	morning rise	-2496 Sep 19 j 20:44	22°Ω03'30	
max. Earth dist.	-2502 Aug 21 j 21:01	8°Ω21'38	31.27250 AU	retrograde	-2496 Dec 15 j 08:36	23°Ω55'35	
morning rise	-2502 Sep 07 j 10:48	8°Ω58'32		opposition	-2495 Mar 03 j 08:41	22°Ω33'49	1°56'25
retrograde	-2502 Dec 02 j 20:53	10°Ω50'24		min. Earth dist.	-2495 Mar 04 j 06:31	22°Ω32'20	29.29175 AU
opposition	-2501 Feb 18 j 11:19	9°Ω28'46	1°38'08	direct	-2495 May 23 j 17:31	21°Ω08'56	
min. Earth dist.	-2501 Feb 19 j 10:19	9°Ω27'11	29.27535 AU	evening set	-2495 Aug 22 j 09:49	23°Ω05'17	
direct	-2501 May 10 j 19:54	8°Ω03'46					
evening set	-2501 Aug 09 j 17:01	10°Ω00'21		conjunction	-2495 Sep 06 j 21:38	23°Ω39'49	1°50'11
max. Earth dist.	-2501 Aug 24 j 07:45	10°Ω32'50	31.27578 AU	minimum elong	-2495 Sep 06 j 21:37	23°Ω39'49	1°50'14
				max. Earth dist.	-2495 Sep 05 j 22:58	23°Ω37'42	31.29268 AU
conjunction	-2501 Aug 25 j 08:43	10°Ω35'10	1°33'31	morning rise	-2495 Sep 22 j 06:15	24°Ω14'05	
minimum elong	-2501 Aug 25 j 08:43	10°Ω35'10	1°33'35	retrograde	-2495 Dec 17 j 20:30	26°Ω06'14	
morning rise	-2501 Sep 09 j 20:42	11°Ω09'41		opposition	-2494 Mar 05 j 20:08	24°Ω44'29	1°58'54
retrograde	-2501 Dec 05 j 06:35	13°Ω01'35		min. Earth dist.	-2494 Mar 06 j 16:37	24°Ω43'05	29.29631 AU
opposition	-2500 Feb 20 j 22:54	11°Ω39'55	1°41'34	direct	-2494 May 26 j 05:14	23°Ω19'40	
min. Earth dist.	-2500 Feb 21 j 22:45	11°Ω38'17	29.27823 AU	evening set	-2494 Aug 24 j 20:19	25°Ω16'00	
direct	-2500 May 12 j 06:19	10°Ω14'56		max. Earth dist.	-2494 Sep 08 j 10:09	25°Ω48'30	31.29723 AU
evening set	-2500 Aug 11 j 04:09	12°Ω11'28					
				conjunction	-2494 Sep 09 j 07:39	25°Ω50'31	1°52'25
conjunction	-2500 Aug 26 j 19:13	12°Ω46'15	1°36'40	minimum elong	-2494 Sep 09 j 07:39	25°Ω50'31	1°52'27
minimum elong	-2500 Aug 26 j 19:13	12°Ω46'15	1°36'43	morning rise	-2494 Sep 24 j 15:36	26°Ω24'45	
max. Earth dist.	-2500 Aug 25 j 18:41	12°Ω43'57	31.27823 AU	retrograde	-2494 Dec 20 j 06:08	28°Ω16'59	
morning rise	-2500 Sep 11 j 06:37	13°Ω20'43		opposition	-2493 Mar 08 j 08:05	26°Ω55'14	2°01'12
	-2500 Nov 09 j 12:35	15°Ω		min. Earth dist.	-2493 Mar 09 j 05:15	26°Ω53'48	29.30085 AU
retrograde	-2500 Dec 06 j 15:22	15°Ω12'38		direct	-2493 May 28 j 17:09	25°Ω30'30	
	-2499 Jan 03 j 09:21	15°Ω		evening set	-2493 Aug 27 j 06:47	27°Ω26'49	
opposition	-2499 Feb 22 j 10:18	13°Ω50'57	1°44'51				
min. Earth dist.	-2499 Feb 23 j 09:22	13°Ω49'22	29.28034 AU	conjunction	-2493 Sep 11 j 17:26	28°Ω01'17	1°54'30
direct	-2499 May 14 j 19:33	12°Ω25'57		minimum elong	-2493 Sep 11 j 17:25	28°Ω01'17	1°54'33
evening set	-2499 Aug 13 j 15:05	14°Ω22'27		max. Earth dist.	-2493 Sep 10 j 20:03	27°Ω59'16	31.30159 AU
max. Earth dist.	-2499 Aug 28 j 04:32	14°Ω54'50	31.28012 AU	morning rise	-2493 Sep 27 j 00:58	28°Ω35'29	
					-2493 Nov 11 j 23:13	0°Ω	
conjunction	-2499 Aug 29 j 05:28	14°Ω57'10	1°39'40	retrograde	-2493 Dec 22 j 17:07	0°Ω27'47	
minimum elong	-2499 Aug 29 j 05:27	14°Ω57'10	1°39'43		-2492 Feb 02 j 18:41	30°Ω	
	-2499 Aug 30 j 11:38	15°Ω		opposition	-2492 Mar 09 j 19:59	29°Ω06'04	2°03'20
morning rise	-2499 Sep 13 j 16:21	15°Ω31'36		min. Earth dist.	-2492 Mar 10 j 15:52	29°Ω04'43	29.30485 AU
retrograde	-2499 Dec 09 j 01:33	17°Ω23'32		direct	-2492 May 30 j 06:30	27°Ω41'24	
opposition	-2498 Feb 24 j 21:49	16°Ω01'49	1°47'59	evening set	-2492 Aug 28 j 17:16	29°Ω37'41	
min. Earth dist.	-2498 Feb 25 j 20:55	16°Ω00'14	29.28234 AU		-2492 Sep 07 j 18:10	0°Ω	
	-2498 Apr 08 j 02:43	15°Ω		max. Earth dist.	-2492 Sep 12 j 06:18	0°Ω10'09	31.30505 AU
direct	-2498 May 17 j 05:36	14°Ω36'49					
	-2498 Jun 24 j 12:35	15°Ω		conjunction	-2492 Sep 13 j 03:21	0°Ω12'07	1°56'25
evening set	-2498 Aug 16 j 01:53	16°Ω33'16		minimum elong	-2492 Sep 13 j 03:21	0°Ω12'07	1°56'27
				morning rise	-2492 Sep 28 j 10:21	0°Ω46'17	
conjunction	-2498 Aug 31 j 15:43	17°Ω07'57	1°42'31	retrograde	-2492 Dec 24 j 03:35	2°Ω38'41	
minimum elong	-2498 Aug 31 j 15:43	17°Ω07'57	1°42'33	opposition	-2491 Mar 12 j 08:00	1°Ω16'58	2°05'18
max. Earth dist.	-2498 Aug 30 j 16:09	17°Ω05'44	31.28215 AU	min. Earth dist.	-2491 Mar 13 j 04:30	1°Ω15'34	29.30793 AU
morning rise	-2498 Sep 16 j 01:52	17°Ω42'20			-2491 May 10 j 14:12	30°Ω	
retrograde	-2498 Dec 11 j 10:35	19°Ω34'18		direct	-2491 Jun 01 j 17:26	29°Ω52'21	
opposition	-2497 Feb 27 j 09:20	18°Ω12'33	1°50'57		-2491 Jun 23 j 12:17	0°Ω	
min. Earth dist.	-2497 Feb 28 j 08:06	18°Ω10'59	29.28459 AU	evening set	-2491 Aug 31 j 03:39	1°Ω48'36	
direct	-2497 May 19 j 17:31	16°Ω47'34					
evening set	-2497 Aug 18 j 12:44	18°Ω43'58		conjunction	-2491 Sep 15 j 13:14	2°Ω22'59	1°58'10
max. Earth dist.	-2497 Sep 02 j 01:45	19°Ω16'21	31.28478 AU	minimum elong	-2491 Sep 15 j 13:14	2°Ω22'59	1°58'12
				max. Earth dist.	-2491 Sep 14 j 16:50	2°Ω21'04	31.30745 AU
conjunction	-2497 Sep 03 j 01:45	19°Ω18'36	1°45'14	morning rise	-2491 Sep 30 j 19:46	2°Ω57'08	
minimum elong	-2497 Sep 03 j 01:44	19°Ω18'36	1°45'16	retrograde	-2491 Dec 26 j 12:37	4°Ω49'37	

Attention, astronomical year style is used: The year -2490 in astronomical counting style is the year 2491 BCE in historical counting style.

opposition	-2490 Mar 14 j 20:04	3° $\mathring{\text{N}}$ 27'53	2°07'05	max. Earth dist.	-2484 Sep 29 j 15:26	17° $\mathring{\text{N}}$ 35'42	31.29547 AU
min. Earth dist.	-2490 Mar 15 j 15:42	3° $\mathring{\text{N}}$ 26'33	29.30953 AU	morning rise	-2484 Oct 15 j 11:57	18° $\mathring{\text{N}}$ 11'15	
direct	-2490 Jun 04 j 06:27	2° $\mathring{\text{N}}$ 03'19		retrograde	-2483 Jan 10 j 14:53	20° $\mathring{\text{N}}$ 04'16	
evening set	-2490 Sep 02 j 14:06	3° $\mathring{\text{N}}$ 59'30		opposition	-2483 Mar 30 j 09:29	18° $\mathring{\text{N}}$ 42'10	2°14'21
				min. Earth dist.	-2483 Mar 31 j 00:43	18° $\mathring{\text{N}}$ 41'08	29.29648 AU
conjunction	-2490 Sep 17 j 23:02	4° $\mathring{\text{N}}$ 33'52	1°59'45	direct	-2483 Jun 19 j 17:11	17° $\mathring{\text{N}}$ 17'47	
minimum elong	-2490 Sep 17 j 23:01	4° $\mathring{\text{N}}$ 33'52	1°59'46	evening set	-2483 Sep 17 j 11:27	19° $\mathring{\text{N}}$ 13'29	
max. Earth dist.	-2490 Sep 17 j 02:04	4° $\mathring{\text{N}}$ 31'54	31.30825 AU				
morning rise	-2490 Oct 03 j 05:09	5° $\mathring{\text{N}}$ 07'59		conjunction	-2483 Oct 02 j 17:17	19° $\mathring{\text{N}}$ 47'39	2°05'55
retrograde	-2490 Dec 28 j 23:03	7° $\mathring{\text{N}}$ 00'32		minimum elong	-2483 Oct 02 j 17:17	19° $\mathring{\text{N}}$ 47'39	2°05'57
opposition	-2489 Mar 17 j 08:13	5° $\mathring{\text{N}}$ 38'46	2°08'40	max. Earth dist.	-2483 Oct 02 j 01:28	19° $\mathring{\text{N}}$ 46'10	31.29455 AU
min. Earth dist.	-2489 Mar 18 j 03:53	5° $\mathring{\text{N}}$ 37'26	29.30970 AU	morning rise	-2483 Oct 17 j 20:57	20° $\mathring{\text{N}}$ 21'38	
direct	-2489 Jun 06 j 16:37	4° $\mathring{\text{N}}$ 14'14		retrograde	-2482 Jan 13 j 01:47	22° $\mathring{\text{N}}$ 14'46	
evening set	-2489 Sep 05 j 00:21	6° $\mathring{\text{N}}$ 10'22		opposition	-2482 Apr 01 j 21:51	20° $\mathring{\text{N}}$ 52'39	2°14'38
				min. Earth dist.	-2482 Apr 02 j 13:03	20° $\mathring{\text{N}}$ 51'38	29.29600 AU
conjunction	-2489 Sep 20 j 08:54	6° $\mathring{\text{N}}$ 44'42	2°01'09	direct	-2482 Jun 22 j 04:12	19° $\mathring{\text{N}}$ 28'21	
minimum elong	-2489 Sep 20 j 08:54	6° $\mathring{\text{N}}$ 44'42	2°01'11	evening set	-2482 Sep 19 j 20:56	21° $\mathring{\text{N}}$ 24'00	
max. Earth dist.	-2489 Sep 19 j 13:13	6° $\mathring{\text{N}}$ 42'51	31.30767 AU				
morning rise	-2489 Oct 05 j 14:28	7° $\mathring{\text{N}}$ 18'47		conjunction	-2482 Oct 05 j 02:28	21° $\mathring{\text{N}}$ 58'09	2°06'06
retrograde	-2489 Dec 31 j 08:23	9° $\mathring{\text{N}}$ 11'25		minimum elong	-2482 Oct 05 j 02:28	21° $\mathring{\text{N}}$ 58'09	2°06'06
opposition	-2488 Mar 18 j 20:29	7° $\mathring{\text{N}}$ 49'36	2°10'05	max. Earth dist.	-2482 Oct 04 j 12:07	21° $\mathring{\text{N}}$ 56'47	31.29439 AU
min. Earth dist.	-2488 Mar 19 j 15:57	7° $\mathring{\text{N}}$ 48'17	29.30837 AU	morning rise	-2482 Oct 20 j 05:49	22° $\mathring{\text{N}}$ 32'07	
direct	-2488 Jun 08 j 04:42	6° $\mathring{\text{N}}$ 25'05		retrograde	-2481 Jan 15 j 10:47	24° $\mathring{\text{N}}$ 25'23	
evening set	-2488 Sep 06 j 10:29	8° $\mathring{\text{N}}$ 21'08		opposition	-2481 Apr 04 j 10:14	23° $\mathring{\text{N}}$ 03'16	2°14'43
				min. Earth dist.	-2481 Apr 04 j 23:56	23° $\mathring{\text{N}}$ 02'20	29.29589 AU
conjunction	-2488 Sep 21 j 18:24	8° $\mathring{\text{N}}$ 55'25	2°02'23	direct	-2481 Jun 24 j 16:49	21° $\mathring{\text{N}}$ 39'03	
minimum elong	-2488 Sep 21 j 18:24	8° $\mathring{\text{N}}$ 55'25	2°02'24	evening set	-2481 Sep 22 j 06:34	23° $\mathring{\text{N}}$ 34'39	
max. Earth dist.	-2488 Sep 20 j 22:08	8° $\mathring{\text{N}}$ 53'31	31.30578 AU				
morning rise	-2488 Oct 06 j 23:46	9° $\mathring{\text{N}}$ 29'30		conjunction	-2481 Oct 07 j 11:38	24° $\mathring{\text{N}}$ 08'47	2°06'05
retrograde	-2487 Jan 01 j 20:00	11° $\mathring{\text{N}}$ 22'12		minimum elong	-2481 Oct 07 j 11:38	24° $\mathring{\text{N}}$ 08'47	2°06'06
opposition	-2487 Mar 21 j 08:38	10° $\mathring{\text{N}}$ 00'19	2°11'19	max. Earth dist.	-2481 Oct 06 j 21:16	24° $\mathring{\text{N}}$ 07'25	31.29440 AU
min. Earth dist.	-2487 Mar 22 j 03:15	9° $\mathring{\text{N}}$ 59'04	29.30603 AU	morning rise	-2481 Oct 22 j 14:54	24° $\mathring{\text{N}}$ 42'45	
direct	-2487 Jun 10 j 15:39	8° $\mathring{\text{N}}$ 35'49		retrograde	-2480 Jan 17 j 21:34	26° $\mathring{\text{N}}$ 36'09	
evening set	-2487 Sep 08 j 20:26	10° $\mathring{\text{N}}$ 31'47		opposition	-2480 Apr 05 j 22:45	25° $\mathring{\text{N}}$ 14'01	2°14'36
max. Earth dist.	-2487 Sep 23 j 09:22	11° $\mathring{\text{N}}$ 04'17	31.30298 AU	min. Earth dist.	-2480 Apr 06 j 11:57	25° $\mathring{\text{N}}$ 13'08	29.29593 AU
				direct	-2480 Jun 26 j 02:38	23° $\mathring{\text{N}}$ 49'54	
conjunction	-2487 Sep 24 j 04:03	11° $\mathring{\text{N}}$ 06'02	2°03'27	evening set	-2480 Sep 23 j 15:55	25° $\mathring{\text{N}}$ 45'26	
minimum elong	-2487 Sep 24 j 04:03	11° $\mathring{\text{N}}$ 06'02	2°03'29				
morning rise	-2487 Oct 09 j 08:53	11° $\mathring{\text{N}}$ 40'05		conjunction	-2480 Oct 08 j 20:51	26° $\mathring{\text{N}}$ 19'34	2°05'53
retrograde	-2486 Jan 04 j 06:05	13° $\mathring{\text{N}}$ 32'51		minimum elong	-2480 Oct 08 j 20:51	26° $\mathring{\text{N}}$ 19'34	2°05'52
opposition	-2486 Mar 23 j 20:46	12° $\mathring{\text{N}}$ 10'54	2°12'22	max. Earth dist.	-2480 Oct 08 j 08:14	26° $\mathring{\text{N}}$ 18'22	31.29420 AU
min. Earth dist.	-2486 Mar 24 j 15:34	12° $\mathring{\text{N}}$ 09'38	29.30298 AU	morning rise	-2480 Oct 23 j 23:47	26° $\mathring{\text{N}}$ 53'32	
direct	-2486 Jun 13 j 04:18	10° $\mathring{\text{N}}$ 46'24		retrograde	-2479 Jan 19 j 07:18	28° $\mathring{\text{N}}$ 47'04	
evening set	-2486 Sep 11 j 06:26	12° $\mathring{\text{N}}$ 42'18		opposition	-2479 Apr 08 j 11:19	27° $\mathring{\text{N}}$ 24'55	2°14'18
				min. Earth dist.	-2479 Apr 09 j 00:02	27° $\mathring{\text{N}}$ 24'04	29.29531 AU
conjunction	-2486 Sep 26 j 13:26	13° $\mathring{\text{N}}$ 16'31	2°04'20	direct	-2479 Jun 28 j 14:18	26° $\mathring{\text{N}}$ 00'53	
minimum elong	-2486 Sep 26 j 13:26	13° $\mathring{\text{N}}$ 16'31	2°04'21	evening set	-2479 Sep 26 j 01:34	27° $\mathring{\text{N}}$ 56'21	
max. Earth dist.	-2486 Sep 25 j 18:36	13° $\mathring{\text{N}}$ 14'45	31.29995 AU				
morning rise	-2486 Oct 11 j 18:03	13° $\mathring{\text{N}}$ 50'33		conjunction	-2479 Oct 11 j 06:02	28° $\mathring{\text{N}}$ 30'27	2°05'30
retrograde	-2485 Jan 06 j 17:57	15° $\mathring{\text{N}}$ 43'23		minimum elong	-2479 Oct 11 j 06:02	28° $\mathring{\text{N}}$ 30'27	2°05'30
opposition	-2485 Mar 26 j 08:58	14° $\mathring{\text{N}}$ 21'22	2°13'13	max. Earth dist.	-2479 Oct 10 j 17:00	28° $\mathring{\text{N}}$ 29'14	31.29320 AU
min. Earth dist.	-2485 Mar 27 j 02:00	14° $\mathring{\text{N}}$ 20'13	29.30008 AU	morning rise	-2479 Oct 26 j 08:57	29° $\mathring{\text{N}}$ 04'26	
direct	-2485 Jun 15 j 15:51	12° $\mathring{\text{N}}$ 56'53			-2479 Nov 22 j 15:49	0° $\underline{\text{A}}$	
evening set	-2485 Sep 13 j 16:05	14° $\mathring{\text{N}}$ 52'42		retrograde	-2478 Jan 21 j 19:12	0° $\underline{\text{A}}$ 58'06	
					-2478 Mar 26 j 21:43	30° $\mathring{\text{R}}$ $\mathring{\text{N}}$	
conjunction	-2485 Sep 28 j 22:44	15° $\mathring{\text{N}}$ 26'54	2°05'03	opposition	-2478 Apr 10 j 23:50	29° $\mathring{\text{N}}$ 35'55	2°13'48
minimum elong	-2485 Sep 28 j 22:44	15° $\mathring{\text{N}}$ 26'54	2°05'04	min. Earth dist.	-2478 Apr 11 j 11:33	29° $\mathring{\text{N}}$ 35'08	29.29382 AU
max. Earth dist.	-2485 Sep 28 j 05:24	15° $\mathring{\text{N}}$ 25'17	31.29722 AU	direct	-2478 Jul 01 j 00:43	28° $\mathring{\text{N}}$ 11'57	
morning rise	-2485 Oct 14 j 02:54	16° $\mathring{\text{N}}$ 00'55			-2478 Sep 25 j 02:30	0° $\underline{\text{A}}$	
retrograde	-2484 Jan 09 j 03:43	17° $\mathring{\text{N}}$ 53'51		evening set	-2478 Sep 28 j 11:05	0° $\underline{\text{A}}$ 07'21	
opposition	-2484 Mar 27 j 21:23	16° $\mathring{\text{N}}$ 31'46	2°13'53				
min. Earth dist.	-2484 Mar 28 j 14:32	16° $\mathring{\text{N}}$ 30'37	29.29781 AU	conjunction	-2478 Oct 13 j 15:25	0° $\underline{\text{A}}$ 41'27	2°04'57
direct	-2484 Jun 17 j 03:56	15° $\mathring{\text{N}}$ 07'20		minimum elong	-2478 Oct 13 j 15:25	0° $\underline{\text{A}}$ 41'27	2°04'56
evening set	-2484 Sep 15 j 01:49	17° $\mathring{\text{N}}$ 03'05		max. Earth dist.	-2478 Oct 13 j 03:57	0° $\underline{\text{A}}$ 40'22	31.29106 AU
				morning rise	-2478 Oct 28 j 18:01	1° $\underline{\text{A}}$ 15'25	
conjunction	-2484 Sep 30 j 08:01	17° $\mathring{\text{N}}$ 37'15	2°05'34	retrograde	-2477 Jan 24 j 05:48	3° $\underline{\text{A}}$ 09'12	
minimum elong	-2484 Sep 30 j 08:01	17° $\mathring{\text{N}}$ 37'15	2°05'35	opposition	-2477 Apr 13 j 12:41	1° $\underline{\text{A}}$ 46'59	2°13'06

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

min. Earth dist.	-2477 Apr 14 j 00:31	1° <u>♁</u> 46'11	29.29100 AU	morning rise	-2471 Nov 12 j 09:31	16° <u>♁</u> 30'41	
direct	-2477 Jul 03 j 12:12	0° <u>♁</u> 23'03		retrograde	-2470 Feb 08 j 09:58	18° <u>♁</u> 25'09	
evening set	-2477 Sep 30 j 20:34	2° <u>♁</u> 18'22		opposition	-2470 Apr 29 j 06:04	17° <u>♁</u> 02'22	2°03'06
				min. Earth dist.	-2470 Apr 29 j 11:13	17° <u>♁</u> 02'01	29.25347 AU
conjunction	-2477 Oct 16 j 00:33	2° <u>♁</u> 52'27	2°04'13	direct	-2470 Jul 19 j 00:10	15° <u>♁</u> 38'38	
minimum elong	-2477 Oct 16 j 00:33	2° <u>♁</u> 52'27	2°04'13	evening set	-2470 Oct 15 j 12:55	17° <u>♁</u> 33'13	
max. Earth dist.	-2477 Oct 15 j 12:53	2° <u>♁</u> 51'21	31.28767 AU				
morning rise	-2477 Oct 31 j 03:11	3° <u>♁</u> 26'25		conjunction	-2470 Oct 30 j 16:00	18° <u>♁</u> 07'16	1°54'14
retrograde	-2476 Jan 26 j 18:01	5° <u>♁</u> 20'19		minimum elong	-2470 Oct 30 j 16:00	18° <u>♁</u> 07'16	1°54'12
opposition	-2476 Apr 15 j 01:26	3° <u>♁</u> 58'02	2°12'14	max. Earth dist.	-2470 Oct 30 j 10:49	18° <u>♁</u> 06'47	31.25053 AU
min. Earth dist.	-2476 Apr 15 j 11:40	3° <u>♁</u> 57'21	29.28689 AU	morning rise	-2470 Nov 14 j 18:42	18° <u>♁</u> 41'18	
direct	-2476 Jul 04 j 22:56	2° <u>♁</u> 34'08		retrograde	-2469 Feb 10 j 21:56	20° <u>♁</u> 35'54	
evening set	-2476 Oct 02 j 06:00	4° <u>♁</u> 29'21		opposition	-2469 May 01 j 18:57	19° <u>♁</u> 13'05	2°00'56
				min. Earth dist.	-2469 May 01 j 22:32	19° <u>♁</u> 12'51	29.25009 AU
conjunction	-2476 Oct 17 j 09:53	5° <u>♁</u> 03'26	2°03'18	direct	-2469 Jul 21 j 10:09	17° <u>♁</u> 49'26	
minimum elong	-2476 Oct 17 j 09:53	5° <u>♁</u> 03'26	2°03'17	evening set	-2469 Oct 17 j 21:48	19° <u>♁</u> 43'57	
max. Earth dist.	-2476 Oct 16 j 23:13	5° <u>♁</u> 02'25	31.28286 AU				
morning rise	-2476 Nov 01 j 12:22	5° <u>♁</u> 37'24		conjunction	-2469 Nov 02 j 01:01	20° <u>♁</u> 18'01	1°52'07
retrograde	-2475 Jan 28 j 04:49	7° <u>♁</u> 31'23		minimum elong	-2469 Nov 02 j 01:01	20° <u>♁</u> 18'01	1°52'07
opposition	-2475 Apr 17 j 14:10	6° <u>♁</u> 09'01	2°11'10	max. Earth dist.	-2469 Nov 01 j 21:50	20° <u>♁</u> 17'43	31.24736 AU
min. Earth dist.	-2475 Apr 18 j 00:53	6° <u>♁</u> 08'18	29.28151 AU	morning rise	-2469 Nov 17 j 03:41	20° <u>♁</u> 52'04	
direct	-2475 Jul 07 j 11:10	4° <u>♁</u> 45'08		retrograde	-2468 Feb 13 j 08:38	22° <u>♁</u> 46'49	
evening set	-2475 Oct 04 j 15:22	6° <u>♁</u> 40'15		opposition	-2468 May 03 j 08:00	21° <u>♁</u> 23'59	1°58'36
				min. Earth dist.	-2468 May 03 j 11:20	21° <u>♁</u> 23'46	29.24696 AU
conjunction	-2475 Oct 19 j 19:04	7° <u>♁</u> 14'18	2°02'13	direct	-2468 Jul 22 j 20:53	20° <u>♁</u> 00'26	
minimum elong	-2475 Oct 19 j 19:04	7° <u>♁</u> 14'18	2°02'13	evening set	-2468 Oct 19 j 06:58	21° <u>♁</u> 54'52	
max. Earth dist.	-2475 Oct 19 j 09:03	7° <u>♁</u> 13'21	31.27711 AU				
morning rise	-2475 Nov 03 j 21:33	7° <u>♁</u> 48'17		conjunction	-2468 Nov 03 j 10:05	22° <u>♁</u> 28'57	1°49'51
retrograde	-2474 Jan 30 j 16:48	9° <u>♁</u> 42'20		minimum elong	-2468 Nov 03 j 10:05	22° <u>♁</u> 28'57	1°49'49
opposition	-2474 Apr 20 j 02:52	8° <u>♁</u> 19'52	2°09'55	max. Earth dist.	-2468 Nov 03 j 07:09	22° <u>♁</u> 28'40	31.24436 AU
min. Earth dist.	-2474 Apr 20 j 11:51	8° <u>♁</u> 19'16	29.27526 AU	morning rise	-2468 Nov 18 j 13:00	23° <u>♁</u> 03'02	
direct	-2474 Jul 10 j 00:42	6° <u>♁</u> 56'00		retrograde	-2467 Feb 14 j 21:20	24° <u>♁</u> 57'56	
evening set	-2474 Oct 07 j 00:34	8° <u>♁</u> 50'59		opposition	-2467 May 05 j 20:46	23° <u>♁</u> 35'05	1°56'05
				min. Earth dist.	-2467 May 05 j 22:17	23° <u>♁</u> 34'58	29.24374 AU
conjunction	-2474 Oct 22 j 04:03	9° <u>♁</u> 25'02	2°00'58	direct	-2467 Jul 25 j 06:44	22° <u>♁</u> 11'36	
minimum elong	-2474 Oct 22 j 04:04	9° <u>♁</u> 25'02	2°00'57	evening set	-2467 Oct 21 j 16:08	24° <u>♁</u> 06'00	
max. Earth dist.	-2474 Oct 21 j 18:40	9° <u>♁</u> 24'09	31.27065 AU				
morning rise	-2474 Nov 06 j 06:32	9° <u>♁</u> 59'01		conjunction	-2467 Nov 05 j 19:17	24° <u>♁</u> 40'05	1°47'25
retrograde	-2473 Feb 02 j 03:54	11° <u>♁</u> 53'10		minimum elong	-2467 Nov 05 j 19:18	24° <u>♁</u> 40'05	1°47'24
opposition	-2473 Apr 22 j 15:46	10° <u>♁</u> 30'35	2°08'29	max. Earth dist.	-2467 Nov 05 j 17:26	24° <u>♁</u> 39'55	31.24082 AU
min. Earth dist.	-2473 Apr 23 j 00:39	10° <u>♁</u> 30'00	29.26884 AU	morning rise	-2467 Nov 20 j 22:18	25° <u>♁</u> 14'12	
direct	-2473 Jul 12 j 12:09	9° <u>♁</u> 06'44		retrograde	-2466 Feb 17 j 09:13	27° <u>♁</u> 09'15	
evening set	-2473 Oct 09 j 09:41	11° <u>♁</u> 01'36		opposition	-2466 May 08 j 09:56	25° <u>♁</u> 46'23	1°53'24
				min. Earth dist.	-2466 May 08 j 11:47	25° <u>♁</u> 46'15	29.23981 AU
conjunction	-2473 Oct 24 j 13:08	11° <u>♁</u> 35'39	1°59'32	direct	-2466 Jul 27 j 18:08	24° <u>♁</u> 23'00	
minimum elong	-2473 Oct 24 j 13:08	11° <u>♁</u> 35'39	1°59'32	evening set	-2466 Oct 24 j 01:16	26° <u>♁</u> 17'19	
max. Earth dist.	-2473 Oct 24 j 05:28	11° <u>♁</u> 34'55	31.26442 AU				
morning rise	-2473 Nov 08 j 15:31	12° <u>♁</u> 09'38		conjunction	-2466 Nov 08 j 04:27	26° <u>♁</u> 51'25	1°44'50
retrograde	-2472 Feb 04 j 13:13	14° <u>♁</u> 03'51		minimum elong	-2466 Nov 08 j 04:28	26° <u>♁</u> 51'25	1°44'47
opposition	-2472 Apr 24 j 04:31	12° <u>♁</u> 41'12	2°06'52	max. Earth dist.	-2466 Nov 08 j 03:28	26° <u>♁</u> 51'20	31.23649 AU
min. Earth dist.	-2472 Apr 24 j 11:36	12° <u>♁</u> 40'43	29.26282 AU	morning rise	-2466 Nov 23 j 07:37	27° <u>♁</u> 25'33	
direct	-2472 Jul 14 j 01:16	11° <u>♁</u> 17'21		retrograde	-2465 Feb 19 j 22:27	29° <u>♁</u> 20'45	
evening set	-2472 Oct 10 j 18:47	13° <u>♁</u> 12'07		opposition	-2465 May 10 j 23:03	27° <u>♁</u> 57'51	1°50'33
				min. Earth dist.	-2465 May 10 j 23:10	27° <u>♁</u> 57'50	29.23479 AU
conjunction	-2472 Oct 25 j 22:00	13° <u>♁</u> 46'10	1°57'56	direct	-2465 Jul 30 j 06:48	26° <u>♁</u> 34'32	
minimum elong	-2472 Oct 25 j 22:00	13° <u>♁</u> 46'10	1°57'55	evening set	-2465 Oct 26 j 10:34	28° <u>♁</u> 28'47	
max. Earth dist.	-2472 Oct 25 j 14:31	13° <u>♁</u> 45'27	31.25885 AU				
morning rise	-2472 Nov 10 j 00:35	14° <u>♁</u> 20'10		conjunction	-2465 Nov 10 j 13:45	29° <u>♁</u> 02'55	1°42'05
retrograde	-2471 Feb 06 j 00:17	16° <u>♁</u> 14'30		minimum elong	-2465 Nov 10 j 13:45	29° <u>♁</u> 02'55	1°42'04
opposition	-2471 Apr 26 j 17:18	14° <u>♁</u> 51'46	2°05'05	max. Earth dist.	-2465 Nov 10 j 12:58	29° <u>♁</u> 02'50	31.23081 AU
min. Earth dist.	-2471 Apr 26 j 23:29	14° <u>♁</u> 51'21	29.25774 AU	morning rise	-2465 Nov 25 j 17:11	29° <u>♁</u> 37'04	
direct	-2471 Jul 16 j 12:03	13° <u>♁</u> 27'58			-2465 Dec 06 j 07:15	0° <u>♁</u>	
evening set	-2471 Oct 13 j 03:46	15° <u>♁</u> 22'37		retrograde	-2464 Feb 22 j 10:50	1° <u>♁</u> 32'25	
				opposition	-2464 May 12 j 12:15	0° <u>♁</u> 09'27	1°47'32
conjunction	-2471 Oct 28 j 07:04	15° <u>♁</u> 56'41	1°56'10	min. Earth dist.	-2464 May 12 j 12:37	0° <u>♁</u> 09'25	29.22847 AU
minimum elong	-2471 Oct 28 j 07:05	15° <u>♁</u> 56'41	1°56'09		-2464 May 18 j 08:45	30° <u>♁</u>	
max. Earth dist.	-2471 Oct 28 j 01:45	15° <u>♁</u> 56'10	31.25423 AU	direct	-2464 Jul 31 j 17:34	28° <u>♁</u> 46'11	

Attention, astronomical year style is used: The year -2464 in astronomical counting style is the year 2465 BCE in historical counting style.

	-2464 Oct 08 j 15:24	0°M			-2458 Dec 11 j 12:52	15°M	
evening set	-2464 Oct 27 j 19:44	0°M.40'21		retrograde	-2457 Mar 09 j 17:19	16°M.53'48	
				opposition	-2457 May 29 j 08:06	15°M.30'14	1°22'24
conjunction	-2464 Nov 11 j 23:10	1°M.14'30	1°39'11	min. Earth dist.	-2457 May 29 j 01:47	15°M.30'40	29.16695 AU
minimum elong	-2464 Nov 11 j 23:11	1°M.14'30	1°39'09		-2457 Jun 17 j 09:11	15°R.M	
max. Earth dist.	-2464 Nov 11 j 23:43	1°M.14'33	31.22381 AU	direct	-2457 Aug 17 j 02:10	14°M.07'07	
morning rise	-2464 Nov 27 j 02:44	1°M.48'41			-2457 Oct 13 j 09:49	15°M	
retrograde	-2463 Feb 23 j 21:21	3°M.44'08		evening set	-2457 Nov 12 j 11:31	16°M.00'34	
opposition	-2463 May 15 j 01:21	2°M.21'06	1°44'22				
min. Earth dist.	-2463 May 15 j 00:23	2°M.21'10	29.22056 AU	conjunction	-2457 Nov 27 j 16:07	16°M.34'51	1°15'14
direct	-2463 Aug 03 j 06:56	0°M.57'52		minimum elong	-2457 Nov 27 j 16:07	16°M.34'51	1°15'12
evening set	-2463 Oct 30 j 05:01	2°M.51'56		max. Earth dist.	-2457 Nov 27 j 23:22	16°M.35'32	31.16301 AU
				morning rise	-2457 Dec 12 j 21:53	17°M.09'16	
conjunction	-2463 Nov 14 j 08:23	3°M.26'06	1°36'10	retrograde	-2456 Mar 11 j 06:36	19°M.05'29	
minimum elong	-2463 Nov 14 j 08:24	3°M.26'06	1°36'08	opposition	-2456 May 30 j 21:03	17°M.41'51	1°18'17
max. Earth dist.	-2463 Nov 14 j 08:35	3°M.26'07	31.21530 AU	min. Earth dist.	-2456 May 30 j 12:45	17°M.42'25	29.16020 AU
morning rise	-2463 Nov 29 j 12:21	4°M.00'19		direct	-2456 Aug 18 j 13:29	16°M.18'47	
retrograde	-2462 Feb 26 j 09:26	5°M.55'52		evening set	-2456 Nov 13 j 20:45	18°M.12'11	
opposition	-2462 May 17 j 14:29	4°M.32'44	1°41'03				
min. Earth dist.	-2462 May 17 j 13:06	4°M.32'50	29.21149 AU	conjunction	-2456 Nov 29 j 01:30	18°M.46'29	1°11'19
direct	-2462 Aug 05 j 18:35	3°M.09'31		minimum elong	-2456 Nov 29 j 01:30	18°M.46'29	1°11'15
evening set	-2462 Nov 01 j 14:05	5°M.03'29		max. Earth dist.	-2456 Nov 29 j 09:09	18°M.47'13	31.15645 AU
				morning rise	-2456 Dec 14 j 07:46	19°M.20'57	
conjunction	-2462 Nov 16 j 17:46	5°M.37'39	1°32'59	retrograde	-2455 Mar 13 j 19:25	21°M.17'18	
minimum elong	-2462 Nov 16 j 17:47	5°M.37'39	1°32'56	opposition	-2455 Jun 02 j 10:16	19°M.53'38	1°14'02
max. Earth dist.	-2462 Nov 16 j 19:52	5°M.37'51	31.20585 AU	min. Earth dist.	-2455 Jun 02 j 01:58	19°M.54'12	29.15372 AU
morning rise	-2462 Dec 01 j 21:51	6°M.11'54		direct	-2455 Aug 20 j 23:21	18°M.30'37	
retrograde	-2461 Feb 28 j 19:43	8°M.07'33		evening set	-2455 Nov 16 j 05:55	20°M.23'58	
opposition	-2461 May 20 j 03:42	6°M.44'19	1°37'36				
min. Earth dist.	-2461 May 20 j 01:28	6°M.44'28	29.20166 AU	conjunction	-2455 Dec 01 j 11:03	20°M.58'18	1°07'17
direct	-2461 Aug 08 j 07:28	5°M.21'07		minimum elong	-2455 Dec 01 j 11:03	20°M.58'18	1°07'15
evening set	-2461 Nov 03 j 23:10	7°M.14'56		max. Earth dist.	-2455 Dec 01 j 20:25	20°M.59'11	31.14996 AU
				morning rise	-2455 Dec 16 j 17:31	21°M.32'47	
conjunction	-2461 Nov 19 j 02:52	7°M.49'08	1°29'41	retrograde	-2454 Mar 16 j 07:24	23°M.29'16	
minimum elong	-2461 Nov 19 j 02:53	7°M.49'08	1°29'39	opposition	-2454 Jun 04 j 23:23	22°M.05'34	1°09'41
max. Earth dist.	-2461 Nov 19 j 05:03	7°M.49'20	31.19607 AU	min. Earth dist.	-2454 Jun 04 j 13:36	22°M.06'14	29.14695 AU
morning rise	-2461 Dec 04 j 07:25	8°M.23'25		direct	-2454 Aug 23 j 12:32	20°M.42'37	
retrograde	-2460 Mar 02 j 07:04	10°M.19'09		evening set	-2454 Nov 18 j 15:25	22°M.35'54	
opposition	-2460 May 21 j 16:49	8°M.55'49	1°34'00				
min. Earth dist.	-2460 May 21 j 13:11	8°M.56'04	29.19195 AU	conjunction	-2454 Dec 03 j 20:38	23°M.10'16	1°03'10
direct	-2460 Aug 09 j 18:08	7°M.32'36		minimum elong	-2454 Dec 03 j 20:38	23°M.10'16	1°03'06
evening set	-2460 Nov 05 j 08:14	9°M.26'19		max. Earth dist.	-2454 Dec 04 j 05:43	23°M.11'07	31.14301 AU
				morning rise	-2454 Dec 19 j 03:40	23°M.44'48	
conjunction	-2460 Nov 20 j 12:14	10°M.00'32	1°26'16	retrograde	-2453 Mar 18 j 21:23	25°M.41'25	
minimum elong	-2460 Nov 20 j 12:14	10°M.00'32	1°26'12	opposition	-2453 Jun 07 j 12:41	24°M.17'40	1°05'13
max. Earth dist.	-2460 Nov 20 j 16:16	10°M.00'55	31.18651 AU	min. Earth dist.	-2453 Jun 07 j 02:31	24°M.18'21	29.13967 AU
morning rise	-2460 Dec 05 j 16:57	10°M.34'51		direct	-2453 Aug 25 j 23:45	22°M.54'45	
retrograde	-2459 Mar 04 j 16:57	12°M.30'42		evening set	-2453 Nov 21 j 00:47	24°M.47'59	
opposition	-2459 May 24 j 05:48	11°M.07'16	1°30'16				
min. Earth dist.	-2459 May 24 j 01:47	11°M.07'32	29.18269 AU	conjunction	-2453 Dec 06 j 06:28	25°M.22'23	0°58'56
direct	-2459 Aug 12 j 05:07	9°M.44'04		minimum elong	-2453 Dec 06 j 06:28	25°M.22'23	0°58'54
evening set	-2459 Nov 07 j 17:23	11°M.37'41		max. Earth dist.	-2453 Dec 06 j 17:16	25°M.23'24	31.13520 AU
				morning rise	-2453 Dec 21 j 13:45	25°M.56'58	
conjunction	-2459 Nov 22 j 21:29	12°M.11'55	1°22'42	retrograde	-2452 Mar 20 j 08:30	27°M.53'42	
minimum elong	-2459 Nov 22 j 21:30	12°M.11'55	1°22'40	opposition	-2452 Jun 09 j 01:57	26°M.29'54	1°00'39
max. Earth dist.	-2459 Nov 23 j 02:05	12°M.12'21	31.17781 AU	min. Earth dist.	-2452 Jun 08 j 15:15	26°M.30'37	29.13118 AU
morning rise	-2459 Dec 08 j 02:36	12°M.46'16		direct	-2452 Aug 27 j 12:24	25°M.07'01	
retrograde	-2458 Mar 07 j 05:32	14°M.42'13		evening set	-2452 Nov 22 j 10:31	27°M.00'10	
opposition	-2458 May 26 j 18:51	13°M.18'43	1°26'24				
min. Earth dist.	-2458 May 26 j 12:40	13°M.19'08	29.17439 AU	conjunction	-2452 Dec 07 j 16:21	27°M.34'36	0°54'38
direct	-2458 Aug 14 j 15:16	11°M.55'33		minimum elong	-2452 Dec 07 j 16:21	27°M.34'36	0°54'34
evening set	-2458 Nov 10 j 02:23	13°M.49'05		max. Earth dist.	-2452 Dec 08 j 02:43	27°M.35'35	31.12616 AU
				morning rise	-2452 Dec 23 j 00:12	28°M.09'14	
conjunction	-2458 Nov 25 j 06:42	14°M.23'20	1°19'02		-2451 Mar 03 j 13:33	0°M	
minimum elong	-2458 Nov 25 j 06:42	14°M.23'20	1°18'58	retrograde	-2451 Mar 22 j 20:59	0°M.06'04	
max. Earth dist.	-2458 Nov 25 j 12:36	14°M.23'53	31.16994 AU		-2451 Apr 11 j 09:58	30°R.M	
morning rise	-2458 Dec 10 j 12:08	14°M.57'43		opposition	-2451 Jun 11 j 15:03	28°M.42'12	0°56'01

Attention, astronomical year style is used: The year -2451 in astronomical counting style is the year 2452 BCE in historical counting style.

min. Earth dist.	-2451 Jun 11 j 03:31	28° \mathbb{M} 42'59	29.12145 AU	conjunction	-2445 Dec 23 j 14:06	13° \mathbb{A} 00'15	0°22'39
direct	-2451 Aug 29 j 23:20	27° \mathbb{M} 19'20		minimum elong	-2445 Dec 23 j 14:06	13° \mathbb{A} 00'15	0°22'35
evening set	-2451 Nov 24 j 20:07	29° \mathbb{M} 12'25		max. Earth dist.	-2445 Dec 24 j 06:11	13° \mathbb{A} 01'46	31.05042 AU
				morning rise	-2444 Jan 08 j 01:12	13° \mathbb{A} 35'09	
conjunction	-2451 Dec 10 j 02:22	29° \mathbb{M} 46'52	0°50'15	retrograde	-2444 Apr 07 j 13:21	15° \mathbb{A} 32'43	
minimum elong	-2451 Dec 10 j 02:22	29° \mathbb{M} 46'52	0°50'12	opposition	-2444 Jun 27 j 10:27	14° \mathbb{A} 08'15	0°21'35
max. Earth dist.	-2451 Dec 10 j 13:59	29° \mathbb{M} 47'58	31.11572 AU	min. Earth dist.	-2444 Jun 26 j 17:23	14° \mathbb{A} 09'25	29.04666 AU
	-2451 Dec 15 j 20:43	0° \mathbb{A}		direct	-2444 Sep 14 j 05:16	12° \mathbb{A} 45'22	
morning rise	-2451 Dec 25 j 10:32	0° \mathbb{A} 21'32		evening set	-2444 Dec 09 j 15:40	14° \mathbb{A} 38'03	
retrograde	-2450 Mar 25 j 07:38	2° \mathbb{A} 18'30					
opposition	-2450 Jun 14 j 04:22	0° \mathbb{A} 54'32	0°51'17	conjunction	-2444 Dec 25 j 00:25	15° \mathbb{A} 12'44	0°17'53
min. Earth dist.	-2450 Jun 13 j 16:55	0° \mathbb{A} 55'18	29.11035 AU	minimum elong	-2444 Dec 25 j 00:25	15° \mathbb{A} 12'44	0°17'48
	-2450 Jul 20 j 15:44	30° \mathbb{R} \mathbb{M}		max. Earth dist.	-2444 Dec 25 j 18:25	15° \mathbb{A} 14'26	31.04266 AU
direct	-2450 Sep 01 j 10:59	29° \mathbb{M} 31'40		morning rise	-2443 Jan 09 j 11:48	15° \mathbb{A} 47'41	
	-2450 Oct 12 j 14:46	0° \mathbb{A}		retrograde	-2443 Apr 10 j 00:43	17° \mathbb{A} 45'21	
evening set	-2450 Nov 27 j 05:38	1° \mathbb{A} 24'39		opposition	-2443 Jun 29 j 23:15	16° \mathbb{A} 20'52	0°16'28
				min. Earth dist.	-2443 Jun 29 j 05:25	16° \mathbb{A} 22'05	29.03924 AU
conjunction	-2450 Dec 12 j 12:10	1° \mathbb{A} 59'08	0°45'47	direct	-2443 Sep 16 j 17:12	14° \mathbb{A} 58'02	
minimum elong	-2450 Dec 12 j 12:11	1° \mathbb{A} 59'08	0°45'44	evening set	-2443 Dec 12 j 01:41	16° \mathbb{A} 50'42	
max. Earth dist.	-2450 Dec 13 j 00:02	2° \mathbb{A} 00'16	31.10429 AU				
morning rise	-2450 Dec 27 j 20:52	2° \mathbb{A} 33'51		conjunction	-2443 Dec 27 j 10:41	17° \mathbb{A} 25'24	0°13'05
retrograde	-2449 Mar 27 j 20:32	4° \mathbb{A} 30'54		minimum elong	-2443 Dec 27 j 10:41	17° \mathbb{A} 25'24	0°13'02
opposition	-2449 Jun 16 j 17:31	3° \mathbb{A} 06'50	0°46'29	behind sun begin	-2443 Dec 27 j 06:44	17° \mathbb{A} 25'03	
min. Earth dist.	-2449 Jun 16 j 04:26	3° \mathbb{A} 07'43	29.09849 AU	behind sun end	-2443 Dec 27 j 14:37	17° \mathbb{A} 25'46	
direct	-2449 Sep 03 j 21:55	1° \mathbb{A} 43'56		max. Earth dist.	-2443 Dec 28 j 04:37	17° \mathbb{A} 27'06	31.03568 AU
evening set	-2449 Nov 29 j 15:17	3° \mathbb{A} 36'51		morning rise	-2442 Jan 11 j 22:41	18° \mathbb{A} 00'25	
				retrograde	-2442 Apr 12 j 14:21	19° \mathbb{A} 58'12	
conjunction	-2449 Dec 14 j 22:09	4° \mathbb{A} 11'22	0°41'16	opposition	-2442 Jul 02 j 12:15	18° \mathbb{A} 33'41	0°11'19
minimum elong	-2449 Dec 14 j 22:09	4° \mathbb{A} 11'22	0°41'13	min. Earth dist.	-2442 Jul 01 j 17:24	18° \mathbb{A} 34'59	29.03249 AU
max. Earth dist.	-2449 Dec 15 j 10:48	4° \mathbb{A} 12'33	31.09219 AU	direct	-2442 Sep 19 j 04:14	17° \mathbb{A} 10'54	
morning rise	-2449 Dec 30 j 07:18	4° \mathbb{A} 46'07		evening set	-2442 Dec 14 j 11:39	19° \mathbb{A} 03'32	
retrograde	-2448 Mar 29 j 07:55	6° \mathbb{A} 43'15					
opposition	-2448 Jun 18 j 06:34	5° \mathbb{A} 19'04	0°41'37	conjunction	-2442 Dec 29 j 21:06	19° \mathbb{A} 38'18	0°08'17
min. Earth dist.	-2448 Jun 17 j 17:46	5° \mathbb{A} 19'57	29.08643 AU	minimum elong	-2442 Dec 29 j 21:06	19° \mathbb{A} 38'18	0°08'12
direct	-2448 Sep 05 j 08:42	3° \mathbb{A} 56'10		behind sun begin	-2442 Dec 29 j 15:23	19° \mathbb{A} 37'47	
evening set	-2448 Dec 01 j 00:50	5° \mathbb{A} 49'00		behind sun end	-2442 Dec 30 j 02:49	19° \mathbb{A} 38'49	
				max. Earth dist.	-2442 Dec 30 j 16:27	19° \mathbb{A} 40'07	31.02892 AU
conjunction	-2448 Dec 16 j 08:07	6° \mathbb{A} 23'32	0°36'41	morning rise	-2441 Jan 14 j 09:30	20° \mathbb{A} 13'20	
minimum elong	-2448 Dec 16 j 08:08	6° \mathbb{A} 23'32	0°36'37	retrograde	-2441 Apr 15 j 02:15	22° \mathbb{A} 11'15	
max. Earth dist.	-2448 Dec 16 j 22:03	6° \mathbb{A} 24'51	31.08035 AU	min. Earth dist.	-2441 Jul 04 j 06:37	20° \mathbb{A} 48'00	29.02569 AU
morning rise	-2448 Dec 31 j 17:41	6° \mathbb{A} 58'19		opposition	-2441 Jul 05 j 01:19	20° \mathbb{A} 46'43	0°06'09
retrograde	-2447 Mar 31 j 20:50	8° \mathbb{A} 55'33		direct	-2441 Sep 21 j 16:00	19° \mathbb{A} 23'58	
opposition	-2447 Jun 20 j 19:28	7° \mathbb{A} 31'17	0°36'41	evening set	-2441 Dec 16 j 21:57	21° \mathbb{A} 16'36	
min. Earth dist.	-2447 Jun 20 j 04:45	7° \mathbb{A} 32'17	29.07483 AU				
direct	-2447 Sep 07 j 19:51	6° \mathbb{A} 08'21		conjunction	-2440 Jan 01 j 07:48	21° \mathbb{A} 51'23	0°03'27
evening set	-2447 Dec 03 j 10:29	8° \mathbb{A} 01'08		minimum elong	-2440 Jan 01 j 07:47	21° \mathbb{A} 51'23	0°03'24
				behind sun begin	-2440 Jan 01 j 01:24	21° \mathbb{A} 50'48	
conjunction	-2447 Dec 18 j 17:57	8° \mathbb{A} 35'42	0°32'03	behind sun end	-2440 Jan 01 j 14:10	21° \mathbb{A} 51'58	
minimum elong	-2447 Dec 18 j 17:58	8° \mathbb{A} 35'42	0°32'00	max. Earth dist.	-2440 Jan 02 j 03:15	21° \mathbb{A} 53'14	31.02202 AU
max. Earth dist.	-2447 Dec 19 j 08:14	8° \mathbb{A} 37'03	31.06915 AU	morning rise	-2440 Jan 16 j 20:42	22° \mathbb{A} 26'29	
morning rise	-2446 Jan 03 j 04:04	9° \mathbb{A} 10'32		retrograde	-2440 Apr 16 j 15:53	24° \mathbb{A} 24'30	
retrograde	-2446 Apr 03 j 09:37	11° \mathbb{A} 07'52		opposition	-2440 Jul 06 j 14:07	22° \mathbb{A} 59'56	0°00'58
opposition	-2446 Jun 23 j 08:33	9° \mathbb{A} 43'31	0°31'42	min. Earth dist.	-2440 Jul 05 j 18:10	23° \mathbb{A} 01'18	29.01848 AU
min. Earth dist.	-2446 Jun 22 j 17:46	9° \mathbb{A} 44'31	29.06424 AU	desc. node	-2440 Sep 13 j 06:44	21° \mathbb{A} 38'50	
direct	-2446 Sep 10 j 05:26	8° \mathbb{A} 20'35		direct	-2440 Sep 23 j 02:59	21° \mathbb{A} 37'12	
evening set	-2446 Dec 05 j 20:05	10° \mathbb{A} 13'19		evening set	-2440 Dec 18 j 08:26	23° \mathbb{A} 29'50	
conjunction	-2446 Dec 21 j 04:05	10° \mathbb{A} 47'55	0°27'22	conjunction	-2439 Jan 02 j 18:36	24° \mathbb{A} 04'38	-0°01'31
minimum elong	-2446 Dec 21 j 04:05	10° \mathbb{A} 47'55	0°27'18	minimum elong	-2439 Jan 02 j 18:36	24° \mathbb{A} 04'38	0°01'35
max. Earth dist.	-2446 Dec 21 j 20:16	10° \mathbb{A} 49'27	31.05918 AU	behind sun begin	-2439 Jan 02 j 12:10	24° \mathbb{A} 04'04	
morning rise	-2445 Jan 05 j 14:30	11° \mathbb{A} 22'47		behind sun end	-2439 Jan 03 j 01:02	24° \mathbb{A} 05'13	
retrograde	-2445 Apr 05 j 22:24	13° \mathbb{A} 20'13		max. Earth dist.	-2439 Jan 03 j 14:19	24° \mathbb{A} 06'30	31.01427 AU
opposition	-2445 Jun 25 j 21:26	11° \mathbb{A} 55'49	0°26'40	morning rise	-2439 Jan 18 j 08:01	24° \mathbb{A} 39'47	
min. Earth dist.	-2445 Jun 25 j 04:57	11° \mathbb{A} 56'56	29.05484 AU	retrograde	-2439 Apr 19 j 03:00	26° \mathbb{A} 37'54	
direct	-2445 Sep 12 j 18:20	10° \mathbb{A} 32'54		min. Earth dist.	-2439 Jul 08 j 07:57	25° \mathbb{A} 14'37	29.01028 AU
evening set	-2445 Dec 08 j 05:52	12° \mathbb{A} 25'36		opposition	-2439 Jul 09 j 03:11	25° \mathbb{A} 13'18	-0°04'13
				direct	-2439 Sep 25 j 13:27	23° \mathbb{A} 50'34	

Attention, astronomical year style is used: The year -2439 in astronomical counting style is the year 2440 BCE in historical counting style.

evening set	-2439 Dec 20 j 18:49	25° \mathring{A} 43'09		opposition	-2433 Jul 23 j 07:50	8° \mathring{B} 33'00	-0°34'57
				direct	-2433 Oct 09 j 09:28	7° \mathring{B} 10'03	
conjunction	-2438 Jan 05 j 05:29	26° \mathring{A} 18'00	-0°06'23	evening set	-2432 Jan 03 j 10:57	9° \mathring{B} 02'29	
minimum elong	-2438 Jan 05 j 05:28	26° \mathring{A} 18'00	0°06'26				
behind sun begin	-2438 Jan 04 j 23:24	26° \mathring{A} 17'27		conjunction	-2432 Jan 19 j 00:01	9° \mathring{B} 37'30	-0°35'00
behind sun end	-2438 Jan 05 j 11:32	26° \mathring{A} 18'33		minimum elong	-2432 Jan 19 j 00:01	9° \mathring{B} 37'30	0°35'03
max. Earth dist.	-2438 Jan 06 j 01:56	26° \mathring{A} 19'56	31.00557 AU	max. Earth dist.	-2432 Jan 19 j 23:39	9° \mathring{B} 39'44	30.94780 AU
morning rise	-2438 Jan 20 j 19:15	26° \mathring{A} 53'10		morning rise	-2432 Feb 03 j 16:42	10° \mathring{B} 12'52	
retrograde	-2438 Apr 21 j 15:51	28° \mathring{A} 51'22		retrograde	-2432 May 04 j 23:01	12° \mathring{B} 11'24	
opposition	-2438 Jul 11 j 16:07	27° \mathring{A} 26'42	-0°09'24	opposition	-2432 Jul 24 j 20:18	10° \mathring{B} 46'17	-0°39'57
min. Earth dist.	-2438 Jul 10 j 19:34	27° \mathring{A} 28'07	29.00097 AU	min. Earth dist.	-2432 Jul 23 j 21:50	10° \mathring{B} 47'50	28.94481 AU
direct	-2438 Sep 28 j 00:31	26° \mathring{A} 03'57		direct	-2432 Oct 10 j 21:20	9° \mathring{B} 23'20	
evening set	-2438 Dec 23 j 05:28	27° \mathring{A} 56'30		evening set	-2431 Jan 04 j 21:56	11° \mathring{B} 15'46	
conjunction	-2437 Jan 07 j 16:24	28° \mathring{A} 31'22	-0°11'12	conjunction	-2431 Jan 20 j 11:25	11° \mathring{B} 50'49	-0°39'38
minimum elong	-2437 Jan 07 j 16:24	28° \mathring{A} 31'22	0°11'16	minimum elong	-2431 Jan 20 j 11:25	11° \mathring{B} 50'49	0°39'42
behind sun begin	-2437 Jan 07 j 11:38	28° \mathring{A} 30'57		max. Earth dist.	-2431 Jan 21 j 11:15	11° \mathring{B} 53'04	30.94134 AU
behind sun end	-2437 Jan 07 j 21:11	28° \mathring{A} 31'48		morning rise	-2431 Feb 05 j 04:34	12° \mathring{B} 26'13	
max. Earth dist.	-2437 Jan 08 j 12:29	28° \mathring{A} 33'16	30.99574 AU	retrograde	-2431 May 07 j 12:53	14° \mathring{B} 24'50	
morning rise	-2437 Jan 23 j 06:49	29° \mathring{A} 06'34		min. Earth dist.	-2431 Jul 26 j 08:57	13° \mathring{B} 01'21	28.93894 AU
	-2437 Feb 18 j 05:20	0° \mathring{B}		opposition	-2431 Jul 27 j 08:47	12° \mathring{B} 59'43	-0°44'53
retrograde	-2437 Apr 24 j 04:56	1° \mathring{B} 04'51		direct	-2431 Oct 13 j 08:29	11° \mathring{B} 36'46	
	-2437 Jul 01 j 23:55	30° \mathring{R} \mathring{A}		evening set	-2430 Jan 07 j 08:54	13° \mathring{B} 29'14	
min. Earth dist.	-2437 Jul 13 j 09:15	29° \mathring{A} 41'27	28.99081 AU				
opposition	-2437 Jul 14 j 05:06	29° \mathring{A} 40'05	-0°14'34	conjunction	-2430 Jan 22 j 22:44	14° \mathring{B} 04'19	-0°44'13
direct	-2437 Sep 30 j 10:16	28° \mathring{A} 17'17		minimum elong	-2430 Jan 22 j 22:44	14° \mathring{B} 04'19	0°44'16
	-2437 Dec 21 j 04:44	0° \mathring{B}		max. Earth dist.	-2430 Jan 23 j 23:03	14° \mathring{B} 06'37	30.93584 AU
evening set	-2437 Dec 25 j 15:59	0° \mathring{B} 09'48		morning rise	-2430 Feb 07 j 16:22	14° \mathring{B} 39'46	
				retrograde	-2430 May 10 j 00:27	16° \mathring{B} 38'29	
conjunction	-2436 Jan 10 j 03:31	0° \mathring{B} 44'42	-0°16'01	opposition	-2430 Jul 29 j 21:27	15° \mathring{B} 13'21	-0°49'45
minimum elong	-2436 Jan 10 j 03:31	0° \mathring{B} 44'42	0°16'04	min. Earth dist.	-2430 Jul 28 j 22:11	15° \mathring{B} 14'57	28.93393 AU
behind sun begin	-2436 Jan 10 j 02:56	0° \mathring{B} 44'39		direct	-2430 Oct 15 j 18:43	13° \mathring{B} 50'26	
behind sun end	-2436 Jan 10 j 04:06	0° \mathring{B} 44'45		evening set	-2429 Jan 09 j 20:06	15° \mathring{B} 42'57	
max. Earth dist.	-2436 Jan 11 j 00:55	0° \mathring{B} 46'43	30.98529 AU				
morning rise	-2436 Jan 25 j 18:17	1° \mathring{B} 19'56		conjunction	-2429 Jan 25 j 10:28	16° \mathring{B} 18'03	-0°48'45
retrograde	-2436 Apr 25 j 17:46	3° \mathring{B} 18'15		minimum elong	-2429 Jan 25 j 10:28	16° \mathring{B} 18'03	0°48'49
opposition	-2436 Jul 15 j 17:51	1° \mathring{B} 53'24	-0°19'43	max. Earth dist.	-2429 Jan 26 j 11:38	16° \mathring{B} 20'26	30.93118 AU
min. Earth dist.	-2436 Jul 14 j 20:54	1° \mathring{B} 54'50	28.98016 AU	morning rise	-2429 Feb 10 j 04:28	16° \mathring{B} 53'31	
direct	-2436 Oct 01 j 23:19	0° \mathring{B} 30'33		retrograde	-2429 May 12 j 14:03	18° \mathring{B} 52'20	
evening set	-2436 Dec 27 j 02:43	2° \mathring{B} 23'01		min. Earth dist.	-2429 Jul 31 j 09:24	17° \mathring{B} 28'54	28.92943 AU
				opposition	-2429 Aug 01 j 09:50	17° \mathring{B} 27'13	-0°54'34
conjunction	-2435 Jan 11 j 14:28	2° \mathring{B} 57'57	-0°20'48	direct	-2429 Oct 18 j 05:20	16° \mathring{B} 04'19	
minimum elong	-2435 Jan 11 j 14:28	2° \mathring{B} 57'57	0°20'53	evening set	-2428 Jan 12 j 07:39	17° \mathring{B} 56'54	
max. Earth dist.	-2435 Jan 12 j 11:17	2° \mathring{B} 59'55	30.97466 AU				
morning rise	-2435 Jan 27 j 05:51	3° \mathring{B} 33'13		conjunction	-2428 Jan 27 j 22:16	18° \mathring{B} 32'02	-0°53'12
retrograde	-2435 Apr 28 j 08:13	5° \mathring{B} 31'35		minimum elong	-2428 Jan 27 j 22:16	18° \mathring{B} 32'02	0°53'16
min. Earth dist.	-2435 Jul 17 j 09:30	4° \mathring{B} 08'05	28.96982 AU	max. Earth dist.	-2428 Jan 28 j 22:54	18° \mathring{B} 34'22	30.92663 AU
opposition	-2435 Jul 18 j 06:32	4° \mathring{B} 06'38	-0°24'50	morning rise	-2428 Feb 12 j 16:52	19° \mathring{B} 07'33	
direct	-2435 Oct 04 j 09:55	2° \mathring{B} 43'43		retrograde	-2428 May 14 j 03:16	21° \mathring{B} 06'27	
evening set	-2435 Dec 29 j 13:21	4° \mathring{B} 36'10		opposition	-2428 Aug 02 j 22:27	19° \mathring{B} 41'20	-0°59'17
				min. Earth dist.	-2428 Aug 01 j 22:59	19° \mathring{B} 42'58	28.92488 AU
conjunction	-2434 Jan 14 j 01:38	5° \mathring{B} 11'08	-0°25'34	direct	-2428 Oct 19 j 14:36	18° \mathring{B} 18'28	
minimum elong	-2434 Jan 14 j 01:38	5° \mathring{B} 11'08	0°25'38	evening set	-2427 Jan 13 j 19:11	20° \mathring{B} 11'05	
max. Earth dist.	-2434 Jan 15 j 00:09	5° \mathring{B} 13'15	30.96459 AU				
morning rise	-2434 Jan 29 j 17:19	5° \mathring{B} 46'25		conjunction	-2427 Jan 29 j 10:21	20° \mathring{B} 46'16	-0°57'35
retrograde	-2434 Apr 30 j 19:59	7° \mathring{B} 44'50		minimum elong	-2427 Jan 29 j 10:21	20° \mathring{B} 46'16	0°57'39
opposition	-2434 Jul 20 j 19:13	6° \mathring{B} 19'49	-0°29'55	max. Earth dist.	-2427 Jan 30 j 11:57	20° \mathring{B} 48'41	30.92173 AU
min. Earth dist.	-2434 Jul 19 j 21:29	6° \mathring{B} 21'19	28.96024 AU	morning rise	-2427 Feb 14 j 05:10	21° \mathring{B} 21'48	
direct	-2434 Oct 06 j 22:02	4° \mathring{B} 56'53		retrograde	-2427 May 16 j 16:22	23° \mathring{B} 20'47	
evening set	-2433 Jan 01 j 00:05	6° \mathring{B} 49'18		min. Earth dist.	-2427 Aug 04 j 10:46	21° \mathring{B} 57'21	28.91959 AU
				opposition	-2427 Aug 05 j 10:52	21° \mathring{B} 55'40	-1°03'55
conjunction	-2433 Jan 16 j 12:41	7° \mathring{B} 24'17	-0°30'18	direct	-2427 Oct 22 j 02:58	20° \mathring{B} 32'48	
minimum elong	-2433 Jan 16 j 12:40	7° \mathring{B} 24'17	0°30'22	evening set	-2426 Jan 16 j 07:03	22° \mathring{B} 25'29	
max. Earth dist.	-2433 Jan 17 j 11:02	7° \mathring{B} 26'24	30.95562 AU				
morning rise	-2433 Feb 01 j 04:58	7° \mathring{B} 59'37		conjunction	-2426 Jan 31 j 22:28	23° \mathring{B} 00'40	-1°01'53
retrograde	-2433 May 03 j 10:37	9° \mathring{B} 58'06		minimum elong	-2426 Jan 31 j 22:27	23° \mathring{B} 00'40	1°01'56
min. Earth dist.	-2433 Jul 22 j 09:15	8° \mathring{B} 34'34	28.95195 AU	max. Earth dist.	-2426 Feb 01 j 22:49	23° \mathring{B} 02'58	30.91598 AU

Attention, astronomical year style is used: The year -2426 in astronomical counting style is the year 2427 BCE in historical counting style.

morning rise	-2426 Feb 16 j 17:53	23° $\overline{36}$ '14	min. Earth dist.	-2420 Aug 20 j 00:41	7° \approx 38'22	28.86945 AU
retrograde	-2426 May 19 j 07:10	25° $\overline{35}$ '17	opposition	-2420 Aug 21 j 00:42	7° \approx 36'41	-1°33'20
opposition	-2426 Aug 07 j 23:28	24° $\overline{31}$ '10	direct	-2420 Nov 06 j 12:48	6° \approx 13'27	
min. Earth dist.	-2426 Aug 06 j 23:57	24° $\overline{31}$ '47	evening set	-2419 Jan 31 j 19:08	8° \approx 06'17	
direct	-2426 Oct 24 j 13:03	22° $\overline{34}$ '15				
evening set	-2425 Jan 18 j 18:48	24° $\overline{39}$ '58	conjunction	-2419 Feb 16 j 13:27	8° \approx 41'39	-1°29'00
			minimum elong	-2419 Feb 16 j 13:26	8° \approx 41'39	1°29'03
conjunction	-2425 Feb 03 j 10:48	25° $\overline{31}$ '12	max. Earth dist.	-2419 Feb 17 j 14:16	8° \approx 43'59	30.86602 AU
minimum elong	-2425 Feb 03 j 10:47	25° $\overline{31}$ '12	morning rise	-2419 Mar 04 j 11:45	9° \approx 17'23	
max. Earth dist.	-2425 Feb 04 j 12:04	25° $\overline{31}$ '35	retrograde	-2419 Jun 04 j 03:53	11° \approx 16'28	
morning rise	-2425 Feb 19 j 06:31	25° $\overline{30}$ '48	opposition	-2419 Aug 23 j 12:46	9° \approx 51'01	-1°37'01
retrograde	-2425 May 21 j 19:48	27° $\overline{34}$ '52	min. Earth dist.	-2419 Aug 22 j 13:37	9° \approx 52'39	28.86506 AU
opposition	-2425 Aug 10 j 11:57	26° $\overline{32}$ '42	direct	-2419 Nov 08 j 22:35	8° \approx 27'45	
min. Earth dist.	-2425 Aug 09 j 12:30	26° $\overline{32}$ '20	evening set	-2418 Feb 03 j 07:21	10° \approx 20'38	
direct	-2425 Oct 27 j 01:01	25° $\overline{30}$ '46				
evening set	-2424 Jan 21 j 06:50	26° $\overline{35}$ '29	conjunction	-2418 Feb 19 j 02:15	10° \approx 56'01	-1°32'23
			minimum elong	-2418 Feb 19 j 02:14	10° \approx 56'01	1°32'25
conjunction	-2424 Feb 05 j 23:09	27° $\overline{32}$ '45	max. Earth dist.	-2418 Feb 20 j 04:08	10° \approx 58'28	30.86225 AU
minimum elong	-2424 Feb 05 j 23:09	27° $\overline{32}$ '45	morning rise	-2418 Mar 07 j 00:47	11° \approx 31'47	
max. Earth dist.	-2424 Feb 06 j 23:21	27° $\overline{32}$ '02	retrograde	-2418 Jun 06 j 16:03	13° \approx 30'52	
morning rise	-2424 Feb 21 j 19:26	28° $\overline{30}$ '22	min. Earth dist.	-2418 Aug 25 j 00:43	12° \approx 07'06	28.86187 AU
	-2424 May 06 j 21:18	0° \approx	opposition	-2418 Aug 26 j 00:38	12° \approx 05'26	-1°40'34
retrograde	-2424 May 23 j 11:18	0° \approx 04'27	direct	-2418 Nov 11 j 10:22	10° \approx 42'09	
	-2424 Jun 09 j 02:01	30° \overline{R} $\overline{3}$	evening set	-2417 Feb 05 j 19:50	12° \approx 35'05	
min. Earth dist.	-2424 Aug 11 j 00:43	28° $\overline{34}$ '05				
opposition	-2424 Aug 12 j 00:11	28° $\overline{33}$ '14	conjunction	-2417 Feb 21 j 15:00	13° \approx 10'30	-1°35'37
direct	-2424 Oct 28 j 13:14	27° $\overline{31}$ '13	minimum elong	-2417 Feb 21 j 15:00	13° \approx 10'30	1°35'40
evening set	-2423 Jan 22 j 18:46	29° $\overline{30}$ '58	max. Earth dist.	-2417 Feb 22 j 15:47	13° \approx 12'50	30.85956 AU
			morning rise	-2417 Mar 09 j 14:07	13° \approx 46'16	
conjunction	-2423 Feb 07 j 11:34	29° $\overline{34}$ '15		-2417 Apr 16 j 09:50	15° \approx	
minimum elong	-2423 Feb 07 j 11:34	29° $\overline{34}$ '15	retrograde	-2417 Jun 09 j 05:59	15° \approx 45'23	
max. Earth dist.	-2423 Feb 08 j 12:28	29° $\overline{34}$ '36		-2417 Aug 03 j 17:02	15° \overline{R} \approx	
	-2423 Feb 14 j 10:41	0° \approx	opposition	-2417 Aug 28 j 12:37	14° \approx 19'58	-1°43'57
morning rise	-2423 Feb 23 j 08:11	0° \approx 19'53	min. Earth dist.	-2417 Aug 27 j 13:18	14° \approx 21'36	28.85965 AU
retrograde	-2423 May 26 j 00:05	2° \approx 18'58	direct	-2417 Nov 13 j 19:41	12° \approx 56'39	
opposition	-2423 Aug 14 j 12:30	0° \approx 53'41	evening set	-2416 Feb 08 j 08:27	14° \approx 49'40	
min. Earth dist.	-2423 Aug 13 j 13:39	0° \approx 55'16		-2416 Feb 13 j 00:21	15° \approx	
	-2423 Sep 18 j 08:51	30° \overline{R} $\overline{3}$				
direct	-2423 Oct 31 j 01:54	29° $\overline{33}$ '07	conjunction	-2416 Feb 24 j 04:09	15° \approx 25'07	-1°38'43
	-2423 Dec 11 j 12:50	0° \approx	minimum elong	-2416 Feb 24 j 04:09	15° \approx 25'07	1°38'45
evening set	-2422 Jan 25 j 06:38	1° \approx 23'22	max. Earth dist.	-2416 Feb 25 j 05:50	15° \approx 27'32	30.85750 AU
			morning rise	-2416 Mar 11 j 03:27	16° \approx 00'54	
conjunction	-2422 Feb 09 j 23:49	1° \approx 58'40	retrograde	-2416 Jun 10 j 18:33	18° \approx 00'02	
minimum elong	-2422 Feb 09 j 23:49	1° \approx 58'40	min. Earth dist.	-2416 Aug 29 j 01:13	16° \approx 36'15	28.85773 AU
max. Earth dist.	-2422 Feb 11 j 00:30	2° \approx 01'00	opposition	-2416 Aug 30 j 00:20	16° \approx 34'38	-1°47'11
morning rise	-2422 Feb 25 j 20:53	2° \approx 34'20	direct	-2416 Nov 15 j 07:17	15° \approx 11'19	
retrograde	-2422 May 28 j 14:03	4° \approx 33'25	evening set	-2415 Feb 09 j 21:17	17° \approx 04'25	
min. Earth dist.	-2422 Aug 16 j 00:54	3° \approx 09'43				
opposition	-2422 Aug 17 j 00:40	3° \approx 08'04	conjunction	-2415 Feb 25 j 17:16	17° \approx 39'53	-1°41'40
direct	-2422 Nov 02 j 13:54	1° \approx 44'56	minimum elong	-2415 Feb 25 j 17:16	17° \approx 39'53	1°41'43
evening set	-2421 Jan 27 j 18:46	3° \approx 37'42	max. Earth dist.	-2415 Feb 26 j 17:40	17° \approx 42'11	30.85563 AU
			morning rise	-2415 Mar 13 j 17:03	18° \approx 15'42	
conjunction	-2421 Feb 12 j 12:19	4° \approx 13'01	retrograde	-2415 Jun 13 j 09:47	20° \approx 14'50	
minimum elong	-2421 Feb 12 j 12:19	4° \approx 13'01	opposition	-2415 Sep 01 j 12:12	18° \approx 49'28	-1°50'15
max. Earth dist.	-2421 Feb 13 j 13:06	4° \approx 15'21	min. Earth dist.	-2415 Aug 31 j 13:20	18° \approx 51'04	28.85582 AU
morning rise	-2421 Feb 28 j 09:49	4° \approx 48'43	direct	-2415 Nov 17 j 18:43	17° \approx 26'08	
retrograde	-2421 May 31 j 02:06	6° \approx 47'47	evening set	-2414 Feb 12 j 10:06	19° \approx 19'18	
opposition	-2421 Aug 19 j 12:45	5° \approx 22'23				
min. Earth dist.	-2421 Aug 18 j 13:52	5° \approx 23'59	conjunction	-2414 Feb 28 j 06:33	19° \approx 54'48	-1°44'28
direct	-2421 Nov 05 j 01:04	3° \approx 59'12	minimum elong	-2414 Feb 28 j 06:32	19° \approx 54'48	1°44'29
evening set	-2420 Jan 30 j 06:53	5° \approx 51'59	max. Earth dist.	-2414 Mar 01 j 07:16	19° \approx 57'07	30.85328 AU
			morning rise	-2414 Mar 16 j 06:36	20° \approx 30'38	
conjunction	-2420 Feb 15 j 00:58	6° \approx 27'20	retrograde	-2414 Jun 15 j 22:33	22° \approx 29'46	
minimum elong	-2420 Feb 15 j 00:57	6° \approx 27'20	min. Earth dist.	-2414 Sep 03 j 02:24	21° \approx 05'56	28.85312 AU
max. Earth dist.	-2420 Feb 16 j 02:17	6° \approx 29'43	opposition	-2414 Sep 04 j 00:09	21° \approx 04'24	-1°53'09
morning rise	-2420 Mar 01 j 22:46	7° \approx 03'03	direct	-2414 Nov 20 j 06:55	19° \approx 41'03	
retrograde	-2420 Jun 01 j 16:15	9° \approx 02'07	evening set	-2413 Feb 14 j 23:11	21° \approx 34'17	

Attention, astronomical year style is used: The year -2413 in astronomical counting style is the year 2414 BCE in historical counting style.

conjunction	-2413 Mar 02 j 20:03	22°09'48	-1°47'06	retrograde	-2407 Jul 01 j 17:07	8°13'44	
minimum elong	-2413 Mar 02 j 20:03	22°09'48	1°47'08	opposition	-2407 Sep 19 j 08:43	6°48'18	-2°08'27
max. Earth dist.	-2413 Mar 03 j 19:40	22°12'02	30.85019 AU	min. Earth dist.	-2407 Sep 18 j 13:33	6°49'39	28.82884 AU
morning rise	-2413 Mar 18 j 20:31	22°45'40		direct	-2407 Dec 05 j 14:54	5°24'30	
retrograde	-2413 Jun 18 j 13:32	24°44'46		evening set	-2406 Mar 02 j 19:27	7°18'08	
opposition	-2413 Sep 06 j 11:50	23°19'24	-1°55'53				
min. Earth dist.	-2413 Sep 05 j 13:55	23°20'56	28.84959 AU	conjunction	-2406 Mar 18 j 19:07	7°53'47	-2°00'48
direct	-2413 Nov 22 j 19:05	21°55'59		minimum elong	-2406 Mar 18 j 19:06	7°53'47	2°00'49
evening set	-2412 Feb 17 j 12:24	23°49'17		max. Earth dist.	-2406 Mar 19 j 15:36	7°55'42	30.82742 AU
				morning rise	-2406 Apr 03 j 21:57	8°29'45	
conjunction	-2412 Mar 04 j 09:38	24°24'50	-1°49'34	retrograde	-2406 Jul 04 j 07:00	10°28'27	
minimum elong	-2412 Mar 04 j 09:38	24°24'50	1°49'36	opposition	-2406 Sep 21 j 20:00	9°03'03	-2°09'52
max. Earth dist.	-2412 Mar 05 j 08:36	24°26'59	30.84609 AU	min. Earth dist.	-2406 Sep 21 j 00:57	9°04'24	28.82941 AU
morning rise	-2412 Mar 20 j 10:27	25°00'42		direct	-2406 Dec 08 j 02:08	7°39'13	
retrograde	-2412 Jun 20 j 02:36	26°59'46		evening set	-2405 Mar 05 j 08:51	9°32'56	
opposition	-2412 Sep 07 j 23:39	25°34'23	-1°58'26				
min. Earth dist.	-2412 Sep 07 j 03:15	25°35'49	28.84518 AU	conjunction	-2405 Mar 21 j 09:01	10°08'37	-2°02'02
direct	-2412 Nov 24 j 06:53	24°10'54		minimum elong	-2405 Mar 21 j 09:01	10°08'37	2°02'03
evening set	-2411 Feb 19 j 01:23	26°04'14		max. Earth dist.	-2405 Mar 22 j 06:02	10°10'35	30.82861 AU
				morning rise	-2405 Apr 06 j 12:03	10°44'35	
conjunction	-2411 Mar 06 j 23:07	26°39'48	-1°51'52	retrograde	-2405 Jul 06 j 18:58	12°43'14	
minimum elong	-2411 Mar 06 j 23:07	26°39'48	1°51'55	opposition	-2405 Sep 24 j 07:09	11°17'53	-2°11'06
max. Earth dist.	-2411 Mar 07 j 21:54	26°41'57	30.84149 AU	min. Earth dist.	-2405 Sep 23 j 13:06	11°19'10	28.83122 AU
morning rise	-2411 Mar 23 j 00:12	27°15'41		direct	-2405 Dec 10 j 13:32	9°54'02	
retrograde	-2411 Jun 22 j 16:59	29°14'42		evening set	-2404 Mar 06 j 22:24	11°47'51	
opposition	-2411 Sep 10 j 11:13	27°49'17	-2°00'49				
min. Earth dist.	-2411 Sep 09 j 14:16	27°50'46	28.84045 AU	conjunction	-2404 Mar 22 j 22:56	12°23'34	-2°03'05
direct	-2411 Nov 26 j 19:30	26°25'44		minimum elong	-2404 Mar 22 j 22:56	12°23'34	2°03'07
evening set	-2410 Feb 21 j 14:36	28°19'07		max. Earth dist.	-2404 Mar 23 j 18:55	12°25'26	30.83106 AU
				morning rise	-2404 Apr 08 j 02:20	12°59'33	
conjunction	-2410 Mar 09 j 12:37	28°54'42	-1°54'01	retrograde	-2404 Jul 08 j 09:54	14°58'08	
minimum elong	-2410 Mar 09 j 12:36	28°54'42	1°54'03	opposition	-2404 Sep 25 j 18:19	13°32'51	-2°12'07
max. Earth dist.	-2410 Mar 10 j 10:23	28°56'45	30.83676 AU	min. Earth dist.	-2404 Sep 24 j 24:00	13°34'09	28.83409 AU
morning rise	-2410 Mar 25 j 14:09	29°30'37		direct	-2404 Dec 12 j 01:20	12°09'00	
	-2410 Apr 08 j 09:41	0°		evening set	-2403 Mar 09 j 11:56	14°02'55	
retrograde	-2410 Jun 25 j 04:29	1°29'33					
opposition	-2410 Sep 12 j 22:46	0°04'07	-2°03'00	conjunction	-2403 Mar 25 j 12:48	14°38'38	-2°03'57
min. Earth dist.	-2410 Sep 12 j 03:14	0°05'30	28.83605 AU	minimum elong	-2403 Mar 25 j 12:48	14°38'38	2°03'58
	-2410 Sep 15 j 09:12	30°		max. Earth dist.	-2403 Mar 26 j 08:24	14°40'28	30.83409 AU
direct	-2410 Nov 29 j 05:53	28°40'30		morning rise	-2403 Apr 10 j 16:28	15°14'38	
	-2409 Feb 08 j 01:34	0°		retrograde	-2403 Jul 10 j 23:17	17°13'11	
evening set	-2409 Feb 24 j 03:42	0°33'56		opposition	-2403 Sep 28 j 05:35	15°47'57	-2°12'56
				min. Earth dist.	-2403 Sep 27 j 12:51	15°49'08	28.83729 AU
conjunction	-2409 Mar 12 j 02:18	1°09'32	-1°55'58	direct	-2403 Dec 14 j 13:28	14°24'06	
minimum elong	-2409 Mar 12 j 02:18	1°09'32	1°56'01	evening set	-2402 Mar 12 j 01:41	16°18'05	
max. Earth dist.	-2409 Mar 13 j 00:39	1°11'38	30.83266 AU				
morning rise	-2409 Mar 28 j 04:03	1°45'27		conjunction	-2402 Mar 28 j 03:01	16°53'51	-2°04'38
retrograde	-2409 Jun 27 j 16:37	3°44'19		minimum elong	-2402 Mar 28 j 03:01	16°53'51	2°04'39
opposition	-2409 Sep 15 j 10:08	2°18'52	-2°05'01	max. Earth dist.	-2402 Mar 28 j 21:57	16°55'37	30.83732 AU
min. Earth dist.	-2409 Sep 14 j 14:12	2°20'17	28.83234 AU	morning rise	-2402 Apr 13 j 06:55	17°29'51	
direct	-2409 Dec 01 j 18:03	0°55'11		retrograde	-2402 Jul 13 j 13:47	19°28'20	
evening set	-2408 Feb 26 j 17:03	2°48'40		opposition	-2402 Sep 30 j 16:38	18°03'10	-2°13'33
				min. Earth dist.	-2402 Sep 29 j 23:46	18°04'21	28.84028 AU
conjunction	-2408 Mar 13 j 15:51	3°24'17	-1°57'46	direct	-2402 Dec 17 j 02:38	16°39'16	
minimum elong	-2408 Mar 13 j 15:51	3°24'17	1°57'47	evening set	-2401 Mar 14 j 15:42	18°33'21	
max. Earth dist.	-2408 Mar 14 j 12:47	3°26'15	30.82945 AU				
morning rise	-2408 Mar 29 j 18:04	4°00'13		conjunction	-2401 Mar 30 j 17:18	19°09'08	-2°05'07
retrograde	-2408 Jun 29 j 05:39	5°59'02		minimum elong	-2401 Mar 30 j 17:18	19°09'08	2°05'07
opposition	-2408 Sep 16 j 21:26	4°33'35	-2°06'50	max. Earth dist.	-2401 Mar 31 j 10:42	19°10'45	30.83991 AU
min. Earth dist.	-2408 Sep 16 j 02:15	4°34'57	28.82990 AU	morning rise	-2401 Apr 15 j 21:35	19°45'09	
direct	-2408 Dec 03 j 03:15	3°09'50		retrograde	-2401 Jul 16 j 02:18	21°43'32	
evening set	-2407 Feb 28 j 06:13	5°03'23		opposition	-2401 Oct 03 j 03:54	20°18'24	-2°13'58
				min. Earth dist.	-2401 Oct 02 j 12:54	20°19'28	28.84253 AU
conjunction	-2407 Mar 16 j 05:35	5°39'02	-1°59'22	direct	-2401 Dec 19 j 13:23	18°54'29	
minimum elong	-2407 Mar 16 j 05:35	5°39'02	1°59'23	evening set	-2400 Mar 16 j 05:35	20°48'37	
max. Earth dist.	-2407 Mar 17 j 03:20	5°41'04	30.82765 AU				
morning rise	-2407 Apr 01 j 07:56	6°14'58		conjunction	-2400 Apr 01 j 07:43	21°24'25	-2°05'25

Attention, astronomical year style is used: The year -2400 in astronomical counting style is the year 2401 BCE in historical counting style.

minimum elong	-2400 Apr 01 j 07:43	21° ⋈ 24'25	2°05'25
max. Earth dist.	-2400 Apr 02 j 00:53	21° ⋈ 26'01	30.84171 AU
morning rise	-2400 Apr 17 j 12:06	22° ⋈ 00'26	
retrograde	-2400 Jul 17 j 15:35	23° ⋈ 58'42	
opposition	-2400 Oct 04 j 14:53	22° ⋈ 33'36	-2°14'11
min. Earth dist.	-2400 Oct 04 j 00:06	22° ⋈ 34'39	28.84381 AU
direct	-2400 Dec 21 j 02:17	21° ⋈ 09'37	
evening set	-2399 Mar 18 j 19:37	23° ⋈ 03'48	

conjunction	-2399 Apr 03 j 21:58	23° ⋈ 39'37	-2°05'31
minimum elong	-2399 Apr 03 j 21:59	23° ⋈ 39'37	2°05'31
max. Earth dist.	-2399 Apr 04 j 13:05	23° ⋈ 41'02	30.84271 AU
morning rise	-2399 Apr 20 j 02:47	24° ⋈ 15'39	
retrograde	-2399 Jul 20 j 04:19	26° ⋈ 13'47	
opposition	-2399 Oct 07 j 01:57	24° ⋈ 48'41	-2°14'11
min. Earth dist.	-2399 Oct 06 j 12:28	24° ⋈ 49'39	28.84463 AU
direct	-2399 Dec 23 j 12:24	23° ⋈ 24'37	