

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

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

	-2900 Feb 18 j 12:30	15° κ 8 Ω		opposition	-2894 Mar 27 j 05:34	12° η 24'13	0°48'23
opposition	-2900 Feb 26 j 22:56	14° Ω 38'31	0°52'27	min. Earth dist.	-2894 Mar 27 j 07:23	12° η 24'01	17.75818 AU
min. Earth dist.	-2900 Feb 27 j 12:44	14° Ω 37'03	17.44360 AU	direct	-2894 Jun 12 j 12:33	10° η 20'56	
direct	-2900 May 14 j 04:46	12° Ω 32'57		evening set	-2894 Sep 14 j 22:57	13° η 43'25	
	-2900 Jul 31 j 12:28	15° Ω					
evening set	-2900 Aug 17 j 20:08	16° Ω 01'26		conjunction	-2894 Sep 30 j 17:05	14° η 41'43	0°42'43
				minimum elong	-2894 Sep 30 j 17:05	14° η 41'43	0°42'44
conjunction	-2900 Sep 02 j 20:29	17° Ω 01'31	0°47'11	max. Earth dist.	-2894 Sep 30 j 16:25	14° η 41'37	19.78935 AU
minimum elong	-2900 Sep 02 j 20:28	17° Ω 01'31	0°47'14	morning rise	-2894 Oct 16 j 08:50	15° η 39'40	
max. Earth dist.	-2900 Sep 02 j 06:41	16° Ω 59'20	19.46338 AU	retrograde	-2893 Jan 15 j 20:08	18° η 56'46	
morning rise	-2900 Sep 18 j 17:00	18° Ω 01'03		opposition	-2893 Apr 01 j 05:07	16° η 56'26	0°46'36
retrograde	-2900 Dec 18 j 15:58	21° Ω 20'55		min. Earth dist.	-2893 Apr 01 j 04:27	16° η 56'30	17.82079 AU
opposition	-2899 Mar 03 j 00:55	19° Ω 19'38	0°52'37	direct	-2893 Jun 17 j 13:02	14° η 53'35	
min. Earth dist.	-2899 Mar 03 j 13:04	19° Ω 18'20	17.48500 AU	evening set	-2893 Sep 19 j 16:21	18° η 14'51	
direct	-2899 May 19 j 06:54	17° Ω 14'21					
evening set	-2899 Aug 22 j 18:51	20° Ω 42'00		conjunction	-2893 Oct 05 j 09:35	19° η 12'50	0°41'00
				minimum elong	-2893 Oct 05 j 09:35	19° η 12'50	0°41'01
conjunction	-2899 Sep 07 j 17:51	21° Ω 41'48	0°47'11	max. Earth dist.	-2893 Oct 05 j 10:27	19° η 12'58	19.85256 AU
minimum elong	-2899 Sep 07 j 17:51	21° Ω 41'48	0°47'13	morning rise	-2893 Oct 21 j 00:50	20° η 10'31	
max. Earth dist.	-2899 Sep 07 j 05:21	21° Ω 39'50	19.50759 AU	retrograde	-2892 Jan 20 j 13:21	23° η 27'05	
morning rise	-2899 Sep 23 j 13:31	22° Ω 41'05		opposition	-2892 Apr 05 j 04:08	21° η 26'51	0°44'31
retrograde	-2899 Dec 23 j 14:25	26° Ω 00'33		min. Earth dist.	-2892 Apr 05 j 02:18	21° η 27'02	17.88456 AU
opposition	-2898 Mar 08 j 02:33	23° Ω 59'24	0°52'26	direct	-2892 Jun 21 j 11:16	19° η 24'24	
min. Earth dist.	-2898 Mar 08 j 12:13	23° Ω 58'23	17.53182 AU	evening set	-2892 Sep 23 j 08:41	22° η 44'24	
direct	-2898 May 24 j 09:19	21° Ω 54'28					
evening set	-2898 Aug 27 j 16:36	25° Ω 21'13		conjunction	-2892 Oct 09 j 01:15	23° η 42'05	0°39'02
				minimum elong	-2892 Oct 09 j 01:15	23° η 42'05	0°39'02
conjunction	-2898 Sep 12 j 14:39	26° Ω 20'44	0°46'52	max. Earth dist.	-2892 Oct 09 j 04:21	23° η 42'34	19.91676 AU
minimum elong	-2898 Sep 12 j 14:39	26° Ω 20'44	0°46'56	morning rise	-2892 Oct 24 j 16:02	24° η 39'30	
max. Earth dist.	-2898 Sep 12 j 05:31	26° Ω 19'18	19.55689 AU	retrograde	-2891 Jan 24 j 07:38	27° η 55'30	
morning rise	-2898 Sep 28 j 09:17	27° Ω 19'45		opposition	-2891 Apr 10 j 02:31	25° η 55'22	0°42'12
	-2898 Nov 20 j 17:34	0° η		min. Earth dist.	-2891 Apr 09 j 21:56	25° η 55'50	17.94895 AU
retrograde	-2898 Dec 28 j 11:24	0° η 38'47		direct	-2891 Jun 26 j 10:32	23° η 53'17	
	-2897 Feb 05 j 11:46	30° κ 8 Ω		evening set	-2891 Sep 27 j 23:58	27° η 12'00	
opposition	-2897 Mar 13 j 03:45	28° Ω 37'48	0°51'55				
min. Earth dist.	-2897 Mar 13 j 11:28	28° Ω 36'59	17.58324 AU	conjunction	-2891 Oct 13 j 15:53	28° η 09'22	0°36'51
direct	-2897 May 29 j 10:40	26° Ω 33'15		minimum elong	-2891 Oct 13 j 15:53	28° η 09'22	0°36'51
evening set	-2897 Sep 01 j 13:37	29° Ω 59'03		max. Earth dist.	-2891 Oct 13 j 20:50	28° η 10'08	19.98140 AU
	-2897 Sep 01 j 19:52	0° η		morning rise	-2891 Oct 29 j 06:20	29° η 06'33	
					-2891 Nov 13 j 15:05	0° Ω	
conjunction	-2897 Sep 17 j 10:29	0° η 58'15	0°46'16	retrograde	-2890 Jan 28 j 22:59	2° Ω 21'57	
minimum elong	-2897 Sep 17 j 10:29	0° η 58'15	0°46'19	opposition	-2890 Apr 15 j 00:18	0° Ω 21'52	0°39'38
max. Earth dist.	-2897 Sep 17 j 02:39	0° η 57'02	19.61044 AU	min. Earth dist.	-2890 Apr 14 j 18:43	0° Ω 22'27	18.01386 AU
morning rise	-2897 Oct 03 j 04:24	1° η 57'01			-2890 Apr 23 j 21:58	30° κ η	
retrograde	-2896 Jan 02 j 08:42	5° η 15'36		direct	-2890 Jul 01 j 06:31	28° η 20'09	
opposition	-2896 Mar 17 j 04:44	3° η 14'48	0°51'03		-2890 Sep 03 j 01:46	0° Ω	
min. Earth dist.	-2896 Mar 17 j 10:27	3° η 14'12	17.63868 AU	evening set	-2890 Oct 02 j 14:17	1° Ω 37'32	
direct	-2896 Jun 02 j 11:39	1° η 10'39					
evening set	-2896 Sep 05 j 09:36	4° η 35'25		conjunction	-2890 Oct 18 j 05:41	2° Ω 34'36	0°34'28
				minimum elong	-2890 Oct 18 j 05:41	2° Ω 34'36	0°34'27
conjunction	-2896 Sep 21 j 05:33	5° η 34'20	0°45'22	max. Earth dist.	-2890 Oct 18 j 12:38	2° Ω 35'40	20.04657 AU
minimum elong	-2896 Sep 21 j 05:33	5° η 34'20	0°45'25	morning rise	-2890 Nov 02 j 19:53	3° Ω 31'31	
max. Earth dist.	-2896 Sep 21 j 00:47	5° η 33'35	19.66756 AU	retrograde	-2889 Feb 02 j 15:47	6° Ω 46'19	
morning rise	-2896 Oct 06 j 22:34	6° η 32'49		opposition	-2889 Apr 19 j 20:56	4° Ω 46'17	0°36'52
retrograde	-2895 Jan 06 j 05:04	9° η 50'56		min. Earth dist.	-2889 Apr 19 j 12:29	4° Ω 47'09	18.07915 AU
opposition	-2895 Mar 22 j 05:22	7° η 50'18	0°49'52	direct	-2889 Jul 06 j 03:32	2° Ω 44'54	
min. Earth dist.	-2895 Mar 22 j 08:46	7° η 49'56	17.69714 AU	evening set	-2889 Oct 07 j 03:38	6° Ω 00'56	
direct	-2895 Jun 07 j 12:51	5° η 46'36					
evening set	-2895 Sep 10 j 04:51	9° η 10'15		conjunction	-2889 Oct 22 j 18:33	6° Ω 57'44	0°31'53
				minimum elong	-2889 Oct 22 j 18:33	6° Ω 57'44	0°31'52
conjunction	-2895 Sep 25 j 23:44	10° η 08'51	0°44'11	max. Earth dist.	-2889 Oct 23 j 03:40	6° Ω 59'07	20.11208 AU
minimum elong	-2895 Sep 25 j 23:44	10° η 08'51	0°44'13	morning rise	-2889 Nov 07 j 08:33	7° Ω 54'25	
max. Earth dist.	-2895 Sep 25 j 20:26	10° η 08'20	19.72737 AU	retrograde	-2888 Feb 07 j 05:39	11° Ω 08'36	
morning rise	-2895 Oct 11 j 16:09	11° η 07'04		opposition	-2888 Apr 23 j 17:11	9° Ω 08'36	0°33'54
retrograde	-2894 Jan 11 j 00:37	14° η 24'42		min. Earth dist.	-2888 Apr 23 j 07:44	9° Ω 09'34	18.14503 AU

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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.

direct	-2888 Jul 09 j 21:30	7° <u>♂</u> 07'34		conjunction	-2882 Nov 20 j 15:09	6° <u>♂</u> 46'48	0°10'24
evening set	-2888 Oct 10 j 15:55	10° <u>♂</u> 22'16		minimum elong	-2882 Nov 20 j 15:09	6° <u>♂</u> 46'48	0°10'21
				behind sun begin	-2882 Nov 20 j 09:57	6° <u>♂</u> 46'03	
conjunction	-2888 Oct 26 j 06:24	11° <u>♂</u> 18'46	0°29'09	behind sun end	-2882 Nov 20 j 20:22	6° <u>♂</u> 47'33	
minimum elong	-2888 Oct 26 j 06:24	11° <u>♂</u> 18'46	0°29'09	max. Earth dist.	-2882 Nov 21 j 12:41	6° <u>♂</u> 50'00	20.57691 AU
max. Earth dist.	-2888 Oct 26 j 17:29	11° <u>♂</u> 20'27	20.17831 AU	morning rise	-2882 Dec 06 j 06:02	7° <u>♂</u> 42'05	
morning rise	-2888 Nov 10 j 20:19	12° <u>♂</u> 15'12		retrograde	-2881 Mar 09 j 04:45	10° <u>♂</u> 52'33	
retrograde	-2887 Feb 10 j 21:25	15° <u>♂</u> 28'48		opposition	-2881 May 25 j 16:48	8° <u>♂</u> 53'14	0°09'36
opposition	-2887 Apr 28 j 12:30	13° <u>♂</u> 28'51	0°30'46	min. Earth dist.	-2881 May 24 j 18:16	8° <u>♂</u> 55'30	18.60800 AU
min. Earth dist.	-2887 Apr 27 j 23:52	13° <u>♂</u> 30'08	18.21157 AU	direct	-2881 Aug 10 j 08:12	6° <u>♂</u> 54'58	
direct	-2887 Jul 14 j 16:04	11° <u>♂</u> 28'11		evening set	-2881 Nov 09 j 08:57	10° <u>♂</u> 01'11	
evening set	-2887 Oct 15 j 03:24	14° <u>♂</u> 41'33					
				conjunction	-2881 Nov 24 j 22:46	10° <u>♂</u> 56'06	0°07'03
conjunction	-2887 Oct 30 j 17:34	15° <u>♂</u> 37'47	0°26'17	minimum elong	-2881 Nov 24 j 22:47	10° <u>♂</u> 56'06	0°07'00
minimum elong	-2887 Oct 30 j 17:34	15° <u>♂</u> 37'47	0°26'15	behind sun begin	-2881 Nov 24 j 16:43	10° <u>♂</u> 55'14	
max. Earth dist.	-2887 Oct 31 j 07:07	15° <u>♂</u> 39'50	20.24514 AU	behind sun end	-2881 Nov 25 j 04:51	10° <u>♂</u> 56'59	
morning rise	-2887 Nov 15 j 07:25	16° <u>♂</u> 34'00		max. Earth dist.	-2881 Nov 25 j 22:10	10° <u>♂</u> 59'34	20.63819 AU
retrograde	-2886 Feb 15 j 10:31	19° <u>♂</u> 47'01		morning rise	-2881 Dec 10 j 13:56	11° <u>♂</u> 51'14	
opposition	-2886 May 03 j 07:06	17° <u>♂</u> 47'08	0°27'30		-2880 Mar 05 j 11:36	15° <u>♂</u>	
min. Earth dist.	-2886 May 02 j 17:28	17° <u>♂</u> 48'31	18.27880 AU	retrograde	-2880 Mar 12 j 14:48	15° <u>♂</u> 01'16	
direct	-2886 Jul 19 j 08:06	15° <u>♂</u> 46'50			-2880 Mar 19 j 18:47	15° <u>♂</u>	
evening set	-2886 Oct 19 j 14:01	18° <u>♂</u> 58'55		min. Earth dist.	-2880 May 28 j 08:36	13° <u>♂</u> 04'19	18.66779 AU
				opposition	-2880 May 29 j 07:15	13° <u>♂</u> 02'03	0°05'51
conjunction	-2886 Nov 04 j 03:57	19° <u>♂</u> 54'54	0°23'17	direct	-2880 Aug 13 j 19:57	11° <u>♂</u> 04'08	
minimum elong	-2886 Nov 04 j 03:57	19° <u>♂</u> 54'54	0°23'16	evening set	-2880 Nov 12 j 15:52	14° <u>♂</u> 09'19	
max. Earth dist.	-2886 Nov 04 j 19:03	19° <u>♂</u> 57'11	20.31262 AU		-2880 Nov 27 j 02:20	15° <u>♂</u>	
morning rise	-2886 Nov 19 j 17:54	20° <u>♂</u> 50'55					
retrograde	-2885 Feb 20 j 01:26	24° <u>♂</u> 03'21		conjunction	-2880 Nov 28 j 05:49	15° <u>♂</u> 04'03	0°03'40
min. Earth dist.	-2885 May 07 j 08:09	22° <u>♂</u> 05'16	18.34634 AU	minimum elong	-2880 Nov 28 j 05:48	15° <u>♂</u> 04'03	0°03'36
opposition	-2885 May 08 j 00:47	22° <u>♂</u> 03'34	0°24'06	behind sun begin	-2880 Nov 27 j 23:20	15° <u>♂</u> 03'07	
direct	-2885 Jul 24 j 00:22	20° <u>♂</u> 03'41		behind sun end	-2880 Nov 28 j 12:17	15° <u>♂</u> 04'59	
evening set	-2885 Oct 23 j 23:50	23° <u>♂</u> 14'31		max. Earth dist.	-2880 Nov 29 j 05:25	15° <u>♂</u> 07'32	20.69631 AU
				morning rise	-2880 Dec 13 j 21:31	15° <u>♂</u> 59'03	
conjunction	-2885 Nov 08 j 13:37	24° <u>♂</u> 10'15	0°20'11	retrograde	-2879 Mar 17 j 03:25	19° <u>♂</u> 08'40	
minimum elong	-2885 Nov 08 j 13:37	24° <u>♂</u> 10'15	0°20'09	opposition	-2879 Jun 02 j 20:56	17° <u>♂</u> 09'31	0°02'05
max. Earth dist.	-2885 Nov 09 j 07:07	24° <u>♂</u> 12'53	20.38004 AU	min. Earth dist.	-2879 Jun 01 j 20:40	17° <u>♂</u> 11'57	18.72409 AU
morning rise	-2885 Nov 24 j 03:37	25° <u>♂</u> 06'03		direct	-2879 Aug 18 j 08:04	15° <u>♂</u> 11'55	
retrograde	-2884 Feb 24 j 13:35	28° <u>♂</u> 17'59		evening set	-2879 Nov 16 j 22:24	18° <u>♂</u> 16'06	
opposition	-2884 May 11 j 17:56	26° <u>♂</u> 18'18	0°20'35				
min. Earth dist.	-2884 May 11 j 00:31	26° <u>♂</u> 20'04	18.41364 AU	conjunction	-2879 Dec 02 j 12:41	19° <u>♂</u> 10'42	0°00'13
direct	-2884 Jul 27 j 15:09	24° <u>♂</u> 18'50		minimum elong	-2879 Dec 02 j 12:41	19° <u>♂</u> 10'42	0°00'10
evening set	-2884 Oct 27 j 09:01	27° <u>♂</u> 28'27		behind sun begin	-2879 Dec 02 j 06:13	19° <u>♂</u> 09'46	
				behind sun end	-2879 Dec 02 j 19:09	19° <u>♂</u> 11'37	
conjunction	-2884 Nov 11 j 22:39	28° <u>♂</u> 23'57	0°17'00	max. Earth dist.	-2879 Dec 03 j 13:50	19° <u>♂</u> 14'23	20.75049 AU
minimum elong	-2884 Nov 11 j 22:40	28° <u>♂</u> 23'57	0°16'57	morning rise	-2879 Dec 18 j 04:48	20° <u>♂</u> 05'34	
max. Earth dist.	-2884 Nov 12 j 17:22	28° <u>♂</u> 26'45	20.44711 AU	desc. node	-2879 Dec 25 j 03:30	20° <u>♂</u> 29'08	
morning rise	-2884 Nov 27 j 12:56	29° <u>♂</u> 19'34		retrograde	-2878 Mar 21 j 12:40	23° <u>♂</u> 14'47	
	-2884 Dec 09 j 08:46	0° <u>♂</u>		min. Earth dist.	-2878 Jun 06 j 09:46	21° <u>♂</u> 18'05	18.77625 AU
retrograde	-2883 Feb 28 j 04:05	2° <u>♂</u> 30'59		opposition	-2878 Jun 07 j 09:52	21° <u>♂</u> 15'41	-0°01'40
opposition	-2883 May 16 j 10:16	0° <u>♂</u> 31'26	0°16'59	direct	-2878 Aug 22 j 18:16	19° <u>♂</u> 18'21	
min. Earth dist.	-2883 May 15 j 14:12	0° <u>♂</u> 33'27	18.48021 AU	evening set	-2878 Nov 21 j 04:29	22° <u>♂</u> 21'35	
	-2883 May 29 j 13:26	30° <u>♂</u>					
direct	-2883 Aug 01 j 05:38	28° <u>♂</u> 32'22		conjunction	-2878 Dec 06 j 19:01	23° <u>♂</u> 16'02	-0°03'15
	-2883 Sep 30 j 00:43	0° <u>♂</u>		minimum elong	-2878 Dec 06 j 19:01	23° <u>♂</u> 16'02	0°03'19
evening set	-2883 Oct 31 j 17:27	1° <u>♂</u> 40'48		behind sun begin	-2878 Dec 06 j 12:32	23° <u>♂</u> 15'07	
				behind sun end	-2878 Dec 07 j 01:31	23° <u>♂</u> 16'58	
conjunction	-2883 Nov 16 j 07:09	2° <u>♂</u> 36'07	0°13'44	max. Earth dist.	-2878 Dec 07 j 19:59	23° <u>♂</u> 19'41	20.80057 AU
minimum elong	-2883 Nov 16 j 07:08	2° <u>♂</u> 36'07	0°13'41	morning rise	-2878 Dec 22 j 11:50	24° <u>♂</u> 10'48	
behind sun begin	-2883 Nov 16 j 03:28	2° <u>♂</u> 35'35		retrograde	-2877 Mar 25 j 23:53	27° <u>♂</u> 19'38	
behind sun end	-2883 Nov 16 j 10:49	2° <u>♂</u> 36'38		opposition	-2877 Jun 11 j 22:07	25° <u>♂</u> 20'32	-0°05'24
max. Earth dist.	-2883 Nov 17 j 04:03	2° <u>♂</u> 39'13	20.51292 AU	min. Earth dist.	-2877 Jun 10 j 20:49	25° <u>♂</u> 23'03	18.82419 AU
morning rise	-2883 Dec 01 j 21:38	3° <u>♂</u> 31'33		direct	-2877 Aug 27 j 05:09	23° <u>♂</u> 23'25	
retrograde	-2882 Mar 04 j 15:07	6° <u>♂</u> 42'29		evening set	-2877 Nov 25 j 09:55	26° <u>♂</u> 25'45	
min. Earth dist.	-2882 May 20 j 05:33	4° <u>♂</u> 45'07	18.54521 AU				
opposition	-2882 May 21 j 02:01	4° <u>♂</u> 43'03	0°13'19	conjunction	-2877 Dec 11 j 00:56	27° <u>♂</u> 20'05	-0°06'34
direct	-2882 Aug 05 j 19:04	2° <u>♂</u> 44'25		minimum elong	-2877 Dec 11 j 00:55	27° <u>♂</u> 20'05	0°06'39
evening set	-2882 Nov 05 j 01:30	5° <u>♂</u> 51'42		behind sun begin	-2877 Dec 10 j 18:47	27° <u>♂</u> 19'13	

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Attention, astronomical year style is used: The year -2877 in astronomical counting style is the year 2878 BCE in historical counting style.

behind sun end	-2877 Dec 11 j 07:04	27° \mathbb{M} 20'58		minimum elong	-2870 Jan 03 j 07:13	21° \mathbb{A} 22'38	0°25'08
max. Earth dist.	-2877 Dec 12 j 03:23	27° \mathbb{M} 23'57	20.84629 AU	max. Earth dist.	-2870 Jan 04 j 12:25	21° \mathbb{A} 26'50	21.04587 AU
morning rise	-2877 Dec 26 j 18:14	28° \mathbb{M} 14'46		morning rise	-2870 Jan 19 j 05:08	22° \mathbb{A} 17'05	
	-2876 Jan 29 j 19:55	0° \mathbb{A}		retrograde	-2870 Apr 23 j 10:59	25° \mathbb{A} 24'07	
retrograde	-2876 Mar 29 j 08:26	1° \mathbb{A} 23'13		opposition	-2870 Jul 10 j 18:35	23° \mathbb{A} 24'57	-0°29'13
	-2876 May 31 j 04:30	30° \mathbb{R} \mathbb{M}		min. Earth dist.	-2870 Jul 09 j 15:28	23° \mathbb{A} 27'39	19.05729 AU
min. Earth dist.	-2876 Jun 14 j 08:36	29° \mathbb{M} 26'37	18.86789 AU	direct	-2870 Sep 24 j 10:14	21° \mathbb{A} 28'53	
opposition	-2876 Jun 15 j 09:48	29° \mathbb{M} 24'06	-0°09'04	evening set	-2870 Dec 22 j 16:52	24° \mathbb{A} 26'56	
direct	-2876 Aug 30 j 14:25	27° \mathbb{M} 27'11					
	-2876 Nov 20 j 01:24	0° \mathbb{A}		conjunction	-2869 Jan 07 j 12:00	25° \mathbb{A} 20'53	-0°27'46
evening set	-2876 Nov 28 j 15:06	0° \mathbb{A} 28'40		minimum elong	-2869 Jan 07 j 12:00	25° \mathbb{A} 20'53	0°27'50
				max. Earth dist.	-2869 Jan 08 j 16:13	25° \mathbb{A} 24'56	21.06688 AU
conjunction	-2876 Dec 14 j 06:28	1° \mathbb{A} 22'53	-0°09'51	morning rise	-2869 Jan 23 j 10:56	26° \mathbb{A} 15'22	
minimum elong	-2876 Dec 14 j 06:27	1° \mathbb{A} 22'53	0°09'56	retrograde	-2869 Apr 27 j 20:02	29° \mathbb{A} 22'19	
behind sun begin	-2876 Dec 14 j 01:07	1° \mathbb{A} 22'08		min. Earth dist.	-2869 Jul 13 j 23:25	27° \mathbb{A} 25'52	19.07625 AU
behind sun end	-2876 Dec 14 j 11:48	1° \mathbb{A} 23'39		opposition	-2869 Jul 15 j 02:33	27° \mathbb{A} 23'10	-0°32'09
max. Earth dist.	-2876 Dec 15 j 08:44	1° \mathbb{A} 26'42	20.88812 AU	direct	-2869 Sep 28 j 15:29	25° \mathbb{A} 27'13	
morning rise	-2876 Dec 30 j 00:33	2° \mathbb{A} 17'29		evening set	-2869 Dec 26 j 20:54	28° \mathbb{A} 24'58	
retrograde	-2875 Apr 02 j 18:20	5° \mathbb{A} 25'36					
opposition	-2875 Jun 19 j 20:40	3° \mathbb{A} 26'27	-0°12'40	conjunction	-2868 Jan 11 j 16:54	29° \mathbb{A} 18'56	-0°30'21
min. Earth dist.	-2875 Jun 18 j 18:24	3° \mathbb{A} 29'04	18.90793 AU	minimum elong	-2868 Jan 11 j 16:54	29° \mathbb{A} 18'56	0°30'26
direct	-2875 Sep 03 j 23:40	1° \mathbb{A} 29'41		max. Earth dist.	-2868 Jan 12 j 21:54	29° \mathbb{A} 23'05	21.08354 AU
evening set	-2875 Dec 02 j 19:47	4° \mathbb{A} 30'24			-2868 Jan 23 j 16:53	0° \mathbb{B}	
				morning rise	-2868 Jan 27 j 16:36	0° \mathbb{B} 13'27	
conjunction	-2875 Dec 18 j 11:45	5° \mathbb{A} 24'32	-0°13'04	retrograde	-2868 May 01 j 03:01	3° \mathbb{B} 20'21	
minimum elong	-2875 Dec 18 j 11:45	5° \mathbb{A} 24'32	0°13'09	min. Earth dist.	-2868 Jul 17 j 07:47	1° \mathbb{B} 23'52	19.09056 AU
behind sun begin	-2875 Dec 18 j 07:47	5° \mathbb{A} 23'58		opposition	-2868 Jul 18 j 10:14	1° \mathbb{B} 21'14	-0°34'55
behind sun end	-2875 Dec 18 j 15:43	5° \mathbb{A} 25'05			-2868 Aug 24 j 20:39	30° \mathbb{R} \mathbb{A}	
max. Earth dist.	-2875 Dec 19 j 15:31	5° \mathbb{A} 28'34	20.92625 AU	direct	-2868 Oct 01 j 20:48	29° \mathbb{A} 25'22	
morning rise	-2874 Jan 03 j 06:28	6° \mathbb{A} 19'04			-2868 Nov 07 j 18:14	0° \mathbb{B}	
retrograde	-2874 Apr 07 j 02:29	9° \mathbb{A} 26'52		evening set	-2868 Dec 30 j 01:19	2° \mathbb{B} 22'54	
min. Earth dist.	-2874 Jun 23 j 04:44	7° \mathbb{A} 30'18	18.94439 AU				
opposition	-2874 Jun 24 j 06:56	7° \mathbb{A} 27'41	-0°16'12	conjunction	-2867 Jan 14 j 22:03	3° \mathbb{B} 16'54	-0°32'47
direct	-2874 Sep 08 j 07:47	5° \mathbb{A} 31'05		minimum elong	-2867 Jan 14 j 22:03	3° \mathbb{B} 16'54	0°32'53
evening set	-2874 Dec 07 j 00:21	8° \mathbb{A} 31'06		max. Earth dist.	-2867 Jan 16 j 01:38	3° \mathbb{B} 20'50	21.09549 AU
				morning rise	-2867 Jan 30 j 22:50	4° \mathbb{B} 11'28	
conjunction	-2874 Dec 22 j 16:45	9° \mathbb{A} 25'09	-0°16'12	retrograde	-2867 May 05 j 12:19	7° \mathbb{B} 18'22	
minimum elong	-2874 Dec 22 j 16:45	9° \mathbb{A} 25'09	0°16'17	opposition	-2867 Jul 22 j 17:34	5° \mathbb{B} 19'14	-0°37'32
max. Earth dist.	-2874 Dec 23 j 20:08	9° \mathbb{A} 29'07	20.96108 AU	min. Earth dist.	-2867 Jul 21 j 15:43	5° \mathbb{B} 21'49	19.09997 AU
morning rise	-2873 Jan 07 j 12:17	10° \mathbb{A} 19'39		direct	-2867 Oct 06 j 01:28	3° \mathbb{B} 23'25	
retrograde	-2873 Apr 11 j 11:11	13° \mathbb{A} 27'12		evening set	-2866 Jan 03 j 05:54	6° \mathbb{B} 20'47	
opposition	-2873 Jun 28 j 16:30	11° \mathbb{A} 27'59	-0°19'37				
min. Earth dist.	-2873 Jun 27 j 13:26	11° \mathbb{A} 30'41	18.97767 AU	conjunction	-2866 Jan 19 j 03:37	7° \mathbb{B} 14'52	-0°35'05
direct	-2873 Sep 12 j 15:16	9° \mathbb{A} 31'30		minimum elong	-2866 Jan 19 j 03:37	7° \mathbb{B} 14'52	0°35'09
evening set	-2873 Dec 11 j 04:35	12° \mathbb{A} 30'56		max. Earth dist.	-2866 Jan 20 j 07:23	7° \mathbb{B} 18'49	21.10205 AU
				morning rise	-2866 Feb 04 j 05:13	8° \mathbb{B} 09'29	
conjunction	-2873 Dec 26 j 21:40	13° \mathbb{A} 24'56	-0°19'15	retrograde	-2866 May 09 j 19:33	11° \mathbb{B} 16'24	
minimum elong	-2873 Dec 26 j 21:40	13° \mathbb{A} 24'56	0°19'21	min. Earth dist.	-2866 Jul 25 j 23:56	9° \mathbb{B} 19'44	19.10365 AU
max. Earth dist.	-2873 Dec 28 j 02:24	13° \mathbb{A} 29'05	20.99265 AU	opposition	-2866 Jul 27 j 00:43	9° \mathbb{B} 17'15	-0°39'58
morning rise	-2872 Jan 11 j 17:52	14° \mathbb{A} 19'23		direct	-2866 Oct 10 j 06:43	7° \mathbb{B} 21'26	
retrograde	-2872 Apr 14 j 19:04	17° \mathbb{A} 26'43		evening set	-2865 Jan 07 j 10:46	10° \mathbb{B} 18'43	
min. Earth dist.	-2872 Jun 30 j 22:41	15° \mathbb{A} 30'13	19.00766 AU				
opposition	-2872 Jul 02 j 01:42	15° \mathbb{A} 27'31	-0°22'56	conjunction	-2865 Jan 23 j 09:15	11° \mathbb{B} 12'51	-0°37'12
direct	-2872 Sep 15 j 22:13	13° \mathbb{A} 31'11		minimum elong	-2865 Jan 23 j 09:15	11° \mathbb{B} 12'51	0°37'17
evening set	-2872 Dec 14 j 08:39	16° \mathbb{A} 30'04		max. Earth dist.	-2865 Jan 24 j 11:03	11° \mathbb{B} 16'32	21.10285 AU
				morning rise	-2865 Feb 08 j 11:55	12° \mathbb{B} 07'33	
conjunction	-2872 Dec 30 j 02:19	17° \mathbb{A} 24'02	-0°22'12	retrograde	-2865 May 14 j 04:31	15° \mathbb{B} 14'32	
minimum elong	-2872 Dec 30 j 02:19	17° \mathbb{A} 24'02	0°22'17	min. Earth dist.	-2865 Jul 30 j 07:53	13° \mathbb{B} 17'41	19.10149 AU
max. Earth dist.	-2872 Dec 31 j 06:29	17° \mathbb{A} 28'05	21.02106 AU	opposition	-2865 Jul 31 j 07:41	13° \mathbb{B} 15'18	-0°42'12
morning rise	-2871 Jan 14 j 23:30	18° \mathbb{A} 18'29		direct	-2865 Oct 14 j 11:03	11° \mathbb{B} 19'26	
retrograde	-2871 Apr 19 j 03:38	21° \mathbb{A} 25'39		evening set	-2864 Jan 11 j 15:47	14° \mathbb{B} 16'41	
min. Earth dist.	-2871 Jul 05 j 06:55	19° \mathbb{A} 29'11	19.03437 AU				
opposition	-2871 Jul 06 j 10:26	19° \mathbb{A} 26'27	-0°26'08	conjunction	-2864 Jan 27 j 15:19	15° \mathbb{B} 10'55	-0°39'08
direct	-2871 Sep 20 j 04:21	17° \mathbb{A} 30'15		minimum elong	-2864 Jan 27 j 15:19	15° \mathbb{B} 10'55	0°39'13
evening set	-2871 Dec 18 j 12:44	20° \mathbb{A} 28'41		max. Earth dist.	-2864 Jan 28 j 17:00	15° \mathbb{B} 14'34	21.09766 AU
				morning rise	-2864 Feb 12 j 18:51	16° \mathbb{B} 05'42	
conjunction	-2870 Jan 03 j 07:13	21° \mathbb{A} 22'38	-0°25'02	retrograde	-2864 May 17 j 12:07	19° \mathbb{B} 12'44	

Planetary Phenomena of Uranus from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 4

Attention, astronomical year style is used: The year -2864 in astronomical counting style is the year 2865 BCE in historical counting style.

opposition	-2864 Aug 03 j 14:27	17° Z 13'25	-0°44'15	conjunction	-2857 Feb 24 j 18:58	13° \approx 05'06	-0°47'00
min. Earth dist.	-2864 Aug 02 j 15:48	17° Z 15'42	19.09331 AU	minimum elong	-2857 Feb 24 j 18:58	13° \approx 05'06	0°47'04
direct	-2864 Oct 17 j 16:30	15° Z 17'27		max. Earth dist.	-2857 Feb 25 j 11:08	13° \approx 07'25	20.92766 AU
evening set	-2863 Jan 14 j 21:04	18° Z 14'43		morning rise	-2857 Mar 13 j 05:37	14° \approx 00'59	
					-2857 Mar 31 j 15:48	15° \approx	
conjunction	-2863 Jan 30 j 21:30	19° Z 09'03	-0°40'53	retrograde	-2857 Jun 16 j 02:47	17° \approx 09'28	
minimum elong	-2863 Jan 30 j 21:30	19° Z 09'03	0°40'58	opposition	-2857 Sep 01 j 10:39	15° \approx 09'14	-0°52'09
max. Earth dist.	-2863 Jan 31 j 21:02	19° Z 12'24	21.08676 AU	min. Earth dist.	-2857 Aug 31 j 20:28	15° \approx 10'42	18.90903 AU
morning rise	-2863 Feb 16 j 02:13	20° Z 03'57			-2857 Sep 05 j 04:45	15° R \approx	
retrograde	-2863 May 21 j 21:02	23° Z 11'05		direct	-2857 Nov 15 j 01:43	13° \approx 11'57	
opposition	-2863 Aug 07 j 21:03	21° Z 11'37	-0°46'04		-2856 Jan 21 j 04:34	15° \approx	
min. Earth dist.	-2863 Aug 06 j 23:37	21° Z 13'47	19.07965 AU	evening set	-2856 Feb 12 j 20:49	16° \approx 11'37	
direct	-2863 Oct 21 j 20:53	19° Z 15'30					
evening set	-2862 Jan 19 j 02:39	22° Z 12'52		conjunction	-2856 Feb 29 j 04:34	17° \approx 07'10	-0°47'15
				minimum elong	-2856 Feb 29 j 04:34	17° \approx 07'10	0°47'19
conjunction	-2862 Feb 04 j 04:10	23° Z 07'19	-0°42'26	max. Earth dist.	-2856 Feb 29 j 20:21	17° \approx 09'25	20.88907 AU
minimum elong	-2862 Feb 04 j 04:10	23° Z 07'19	0°42'30	morning rise	-2856 Mar 16 j 16:01	18° \approx 03'15	
max. Earth dist.	-2862 Feb 05 j 03:31	23° Z 10'38	21.07043 AU	retrograde	-2856 Jun 19 j 13:28	21° \approx 12'07	
morning rise	-2862 Feb 20 j 09:44	24° Z 02'21		opposition	-2856 Sep 04 j 17:14	19° \approx 11'49	-0°52'18
retrograde	-2862 May 26 j 04:42	27° Z 09'34		min. Earth dist.	-2856 Sep 04 j 04:12	19° \approx 13'09	18.86878 AU
min. Earth dist.	-2862 Aug 11 j 06:58	25° Z 12'01	19.06082 AU	direct	-2856 Nov 18 j 07:22	17° \approx 14'20	
opposition	-2862 Aug 12 j 03:16	25° Z 09'58	-0°47'40	evening set	-2855 Feb 16 j 06:05	20° \approx 14'40	
direct	-2862 Oct 26 j 02:05	23° Z 13'41					
evening set	-2861 Jan 23 j 08:35	26° Z 11'13		conjunction	-2855 Mar 04 j 14:46	21° \approx 10'27	-0°47'16
				minimum elong	-2855 Mar 04 j 14:46	21° \approx 10'27	0°47'19
conjunction	-2861 Feb 08 j 11:00	27° Z 05'48	-0°43'46	max. Earth dist.	-2855 Mar 05 j 03:46	21° \approx 12'18	20.84732 AU
minimum elong	-2861 Feb 08 j 10:59	27° Z 05'48	0°43'51	morning rise	-2855 Mar 21 j 03:20	22° \approx 06'45	
max. Earth dist.	-2861 Feb 09 j 08:10	27° Z 08'49	21.04943 AU	retrograde	-2855 Jun 24 j 00:23	25° \approx 16'03	
morning rise	-2861 Feb 24 j 17:42	28° Z 00'59		opposition	-2855 Sep 09 j 00:11	23° \approx 15'40	-0°52'12
	-2861 Apr 06 j 06:04	0° \approx		min. Earth dist.	-2855 Sep 08 j 13:11	23° \approx 16'49	18.82531 AU
retrograde	-2861 May 30 j 13:45	1° \approx 08'22		direct	-2855 Nov 22 j 12:17	21° \approx 17'58	
	-2861 Jul 25 j 13:16	30° R Z		evening set	-2854 Feb 20 j 16:05	24° \approx 19'04	
opposition	-2861 Aug 16 j 09:34	29° Z 08'36	-0°49'02				
min. Earth dist.	-2861 Aug 15 j 14:28	29° Z 10'32	19.03771 AU	conjunction	-2854 Mar 09 j 01:56	25° \approx 15'06	-0°47'03
direct	-2861 Oct 30 j 06:38	27° Z 12'07		minimum elong	-2854 Mar 09 j 01:56	25° \approx 15'06	0°47'06
	-2860 Jan 24 j 14:56	0° \approx		max. Earth dist.	-2854 Mar 09 j 14:09	25° \approx 16'50	20.80202 AU
evening set	-2860 Jan 27 j 14:39	0° \approx 09'54		morning rise	-2854 Mar 25 j 15:11	26° \approx 11'38	
				retrograde	-2854 Jun 28 j 12:35	29° \approx 21'22	
conjunction	-2860 Feb 12 j 18:12	1° \approx 04'39	-0°44'55	opposition	-2854 Sep 13 j 07:17	27° \approx 20'56	-0°51'49
minimum elong	-2860 Feb 12 j 18:12	1° \approx 04'39	0°44'59	min. Earth dist.	-2854 Sep 12 j 21:44	27° \approx 21'55	18.77810 AU
max. Earth dist.	-2860 Feb 13 j 15:19	1° \approx 07'39	21.02425 AU	direct	-2854 Nov 26 j 19:28	25° \approx 23'00	
morning rise	-2860 Feb 29 j 01:46	1° \approx 59'59		evening set	-2853 Feb 25 j 03:02	28° \approx 24'54	
retrograde	-2860 Jun 02 j 21:58	5° \approx 07'34					
opposition	-2860 Aug 19 j 15:46	3° \approx 07'40	-0°50'11	conjunction	-2853 Mar 13 j 13:44	29° \approx 21'11	-0°46'35
min. Earth dist.	-2860 Aug 18 j 21:38	3° \approx 09'31	19.01058 AU	minimum elong	-2853 Mar 13 j 13:44	29° \approx 21'11	0°46'38
direct	-2860 Nov 02 j 11:21	1° \approx 10'59		max. Earth dist.	-2853 Mar 13 j 22:41	29° \approx 22'28	20.75302 AU
evening set	-2859 Jan 30 j 21:27	4° \approx 09'07			-2853 Mar 24 j 20:40	0° H	
				morning rise	-2853 Mar 30 j 03:59	0° H 17'58	
conjunction	-2859 Feb 16 j 01:55	5° \approx 04'02	-0°45'50	retrograde	-2853 Jul 02 j 23:52	3° H 28'11	
minimum elong	-2859 Feb 16 j 01:55	5° \approx 04'02	0°45'53	opposition	-2853 Sep 17 j 14:56	1° H 27'39	-0°51'11
max. Earth dist.	-2859 Feb 16 j 20:46	5° \approx 06'43	20.99541 AU	min. Earth dist.	-2853 Sep 17 j 07:45	1° H 28'24	18.72717 AU
morning rise	-2859 Mar 04 j 10:39	5° \approx 59'32			-2853 Oct 27 j 05:31	30° R \approx	
retrograde	-2859 Jun 07 j 07:29	9° \approx 07'23		direct	-2853 Dec 01 j 01:14	29° \approx 29'26	
opposition	-2859 Aug 23 j 21:55	7° \approx 07'21	-0°51'05		-2852 Jan 04 j 11:49	0° H	
min. Earth dist.	-2859 Aug 23 j 05:10	7° \approx 09'03	18.98003 AU	evening set	-2852 Feb 29 j 14:33	2° H 32'11	
direct	-2859 Nov 06 j 16:08	5° \approx 10'27					
evening set	-2858 Feb 04 j 04:40	8° \approx 09'01		conjunction	-2852 Mar 17 j 02:27	3° H 28'45	-0°45'52
				minimum elong	-2852 Mar 17 j 02:27	3° H 28'45	0°45'54
conjunction	-2858 Feb 20 j 10:19	9° \approx 04'08	-0°46'32	max. Earth dist.	-2852 Mar 17 j 10:17	3° H 29'53	20.70005 AU
minimum elong	-2858 Feb 20 j 10:19	9° \approx 04'08	0°46'36	morning rise	-2852 Apr 02 j 17:22	4° H 25'47	
max. Earth dist.	-2858 Feb 21 j 04:54	9° \approx 06'47	20.96312 AU	retrograde	-2852 Jul 06 j 13:08	7° H 36'28	
morning rise	-2858 Mar 08 j 19:51	9° \approx 59'48		opposition	-2852 Sep 20 j 22:55	5° H 35'49	-0°50'16
retrograde	-2858 Jun 11 j 16:40	13° \approx 07'56		min. Earth dist.	-2852 Sep 20 j 17:16	5° H 36'24	18.67208 AU
opposition	-2858 Aug 28 j 04:10	11° \approx 07'48	-0°51'44	direct	-2852 Dec 04 j 09:57	3° H 37'17	
min. Earth dist.	-2858 Aug 27 j 12:25	11° \approx 09'25	18.94606 AU	evening set	-2851 Mar 05 j 03:14	6° H 40'57	
direct	-2858 Nov 10 j 20:49	9° \approx 10'43					
evening set	-2857 Feb 08 j 12:24	12° \approx 09'48		conjunction	-2851 Mar 21 j 15:58	7° H 37'47	-0°44'55

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Attention, astronomical year style is used: The year -2851 in astronomical counting style is the year 2852 BCE in historical counting style.

minimum elong	-2851 Mar 21 j 15:58	7° H 37'47	0°44'57	opposition	-2845 Oct 20 j 18:54	5° Y 14'12	-0°36'34
max. Earth dist.	-2851 Mar 21 j 20:11	7° H 38'24	20.64307 AU	min. Earth dist.	-2845 Oct 21 j 02:40	5° Y 13'23	18.21471 AU
morning rise	-2851 Apr 07 j 07:50	8° H 35'05		direct	-2844 Jan 03 j 10:12	3° Y 12'45	
retrograde	-2851 Jul 11 j 00:50	11° H 46'15		evening set	-2844 Apr 04 j 18:01	6° Y 23'59	
opposition	-2851 Sep 25 j 07:16	9° H 45'25	-0°49'05				
min. Earth dist.	-2851 Sep 25 j 04:14	9° H 45'44	18.61322 AU	conjunction	-2844 Apr 21 j 12:31	7° Y 22'56	-0°31'40
direct	-2851 Dec 08 j 17:35	7° H 46'31		minimum elong	-2844 Apr 21 j 12:31	7° Y 22'56	0°31'40
evening set	-2850 Mar 09 j 16:32	10° H 51'07		max. Earth dist.	-2844 Apr 21 j 02:55	7° Y 21'31	20.18086 AU
				morning rise	-2844 May 08 j 07:57	8° Y 22'04	
conjunction	-2850 Mar 26 j 06:23	11° H 48'15	-0°43'43	retrograde	-2844 Aug 10 j 05:23	11° Y 36'52	
minimum elong	-2850 Mar 26 j 06:23	11° H 48'15	0°43'44	opposition	-2844 Oct 24 j 06:50	9° Y 34'52	-0°33'38
max. Earth dist.	-2850 Mar 26 j 09:23	11° H 48'41	20.58245 AU	min. Earth dist.	-2844 Oct 24 j 15:16	9° Y 33'58	18.14701 AU
morning rise	-2850 Apr 11 j 22:48	12° H 45'48		direct	-2843 Jan 07 j 00:02	7° Y 33'02	
retrograde	-2850 Jul 15 j 14:16	15° H 57'26		evening set	-2843 Apr 09 j 13:36	10° Y 45'33	
opposition	-2850 Sep 29 j 16:00	13° H 56'27	-0°47'39				
min. Earth dist.	-2850 Sep 29 j 14:20	13° H 56'37	18.55090 AU	conjunction	-2843 Apr 26 j 08:30	11° Y 44'47	-0°28'56
direct	-2850 Dec 13 j 03:23	11° H 57'09		minimum elong	-2843 Apr 26 j 08:30	11° Y 44'47	0°28'54
evening set	-2849 Mar 14 j 06:37	15° H 02'44		max. Earth dist.	-2843 Apr 25 j 20:07	11° Y 42'58	20.11356 AU
				morning rise	-2843 May 13 j 04:12	12° Y 44'11	
conjunction	-2849 Mar 30 j 21:12	16° H 00'09	-0°42'16	retrograde	-2843 Aug 14 j 21:25	15° Y 59'34	
minimum elong	-2849 Mar 30 j 21:12	16° H 00'09	0°42'18	opposition	-2843 Oct 28 j 19:29	13° Y 57'30	-0°30'30
max. Earth dist.	-2849 Mar 30 j 20:48	16° H 00'06	20.51881 AU	min. Earth dist.	-2843 Oct 29 j 06:28	13° Y 56'19	18.08024 AU
morning rise	-2849 Apr 16 j 14:27	16° H 57'58		direct	-2842 Jan 11 j 13:00	11° Y 55'18	
retrograde	-2849 Jul 20 j 02:51	20° H 10'06		evening set	-2842 Apr 14 j 09:59	15° Y 09'08	
opposition	-2849 Oct 04 j 01:16	18° H 08'54	-0°45'56				
min. Earth dist.	-2849 Oct 04 j 02:08	18° H 08'49	18.48605 AU	conjunction	-2842 May 01 j 05:27	16° Y 08'41	-0°25'59
direct	-2849 Dec 17 j 12:39	16° H 09'10		minimum elong	-2842 May 01 j 05:27	16° Y 08'41	0°25'58
evening set	-2848 Mar 17 j 21:31	19° H 15'47		max. Earth dist.	-2842 Apr 30 j 15:57	16° Y 06'40	20.04734 AU
				morning rise	-2842 May 18 j 01:13	17° Y 08'19	
conjunction	-2848 Apr 03 j 13:08	20° H 13'31	-0°40'36	retrograde	-2842 Aug 19 j 16:21	20° Y 24'19	
minimum elong	-2848 Apr 03 j 13:08	20° H 13'31	0°40'37	opposition	-2842 Nov 02 j 08:52	18° Y 22'12	-0°27'09
max. Earth dist.	-2848 Apr 03 j 11:42	20° H 13'19	20.45294 AU	min. Earth dist.	-2842 Nov 02 j 20:28	18° Y 20'57	18.01447 AU
morning rise	-2848 Apr 20 j 06:51	21° H 11'35		direct	-2841 Jan 16 j 04:42	16° Y 19'40	
retrograde	-2848 Jul 23 j 16:48	24° H 24'13		evening set	-2841 Apr 19 j 07:23	19° Y 34'49	
opposition	-2848 Oct 07 j 10:45	22° H 22'50	-0°43'57	max. Earth dist.	-2841 May 05 j 11:07	20° Y 32'17	19.98203 AU
min. Earth dist.	-2848 Oct 07 j 12:46	22° H 22'37	18.41926 AU				
direct	-2848 Dec 20 j 23:35	20° H 22'40		conjunction	-2841 May 06 j 03:06	20° Y 34'40	-0°22'53
evening set	-2847 Mar 22 j 13:28	23° H 30'22		minimum elong	-2841 May 06 j 03:06	20° Y 34'40	0°22'51
				morning rise	-2841 May 22 j 22:56	21° Y 34'34	
conjunction	-2847 Apr 08 j 05:45	24° H 28'24	-0°38'41	retrograde	-2841 Aug 24 j 09:49	24° Y 51'10	
minimum elong	-2847 Apr 08 j 05:45	24° H 28'24	0°38'42	opposition	-2841 Nov 06 j 23:11	22° Y 49'02	-0°23'36
max. Earth dist.	-2847 Apr 08 j 01:01	24° H 27'42	20.38551 AU	min. Earth dist.	-2841 Nov 07 j 13:27	22° Y 47'29	17.94969 AU
morning rise	-2847 Apr 25 j 00:10	25° H 26'44		direct	-2840 Jan 20 j 19:18	20° Y 46'09	
retrograde	-2847 Jul 28 j 06:25	28° H 39'53		evening set	-2840 Apr 23 j 05:51	24° Y 02'40	
opposition	-2847 Oct 11 j 20:58	26° H 38'18	-0°41'44	max. Earth dist.	-2840 May 09 j 08:20	25° Y 00'10	19.91767 AU
min. Earth dist.	-2847 Oct 12 j 01:29	26° H 37'49	18.35138 AU				
direct	-2847 Dec 25 j 10:13	24° H 37'41		conjunction	-2840 May 10 j 01:55	25° Y 02'48	-0°19'36
evening set	-2846 Mar 27 j 06:02	27° H 46'31		minimum elong	-2840 May 10 j 01:55	25° Y 02'48	0°19'33
				morning rise	-2840 May 26 j 21:40	26° Y 02'56	
conjunction	-2846 Apr 12 j 23:13	28° H 44'51	-0°36'34	retrograde	-2840 Aug 28 j 06:16	29° Y 20'07	
minimum elong	-2846 Apr 12 j 23:13	28° H 44'51	0°36'34	opposition	-2840 Nov 10 j 14:03	27° Y 17'57	-0°19'53
max. Earth dist.	-2846 Apr 12 j 17:33	28° H 44'02	20.31726 AU	min. Earth dist.	-2840 Nov 11 j 05:06	27° Y 16'20	17.88568 AU
morning rise	-2846 Apr 29 j 17:55	29° H 43'27		direct	-2839 Jan 24 j 12:58	25° Y 14'45	
	-2846 May 04 j 14:44	0° Y		evening set	-2839 Apr 28 j 05:25	28° Y 32'36	
retrograde	-2846 Aug 01 j 21:35	2° Y 57'08		max. Earth dist.	-2839 May 14 j 05:40	29° Y 30'01	19.85393 AU
opposition	-2846 Oct 16 j 07:34	0° Y 55'23	-0°39'16				
min. Earth dist.	-2846 Oct 16 j 12:54	0° Y 54'49	18.28293 AU	conjunction	-2839 May 15 j 01:36	29° Y 33'01	-0°16'11
	-2846 Nov 07 j 19:44	30° R H		minimum elong	-2839 May 15 j 01:36	29° Y 33'01	0°16'09
direct	-2846 Dec 29 j 22:27	28° H 54'21			-2839 May 22 j 12:47	0° B	
	-2845 Feb 18 j 21:00	0° Y		morning rise	-2839 May 31 j 21:08	0° B 33'23	
evening set	-2845 Mar 31 j 23:40	2° Y 04'22		retrograde	-2839 Sep 02 j 01:25	3° B 51'07	
				opposition	-2839 Nov 15 j 06:04	1° B 48'56	-0°16'01
conjunction	-2845 Apr 17 j 17:22	3° Y 03'00	-0°34'13	min. Earth dist.	-2839 Nov 15 j 23:46	1° B 47'01	17.82242 AU
minimum elong	-2845 Apr 17 j 17:22	3° Y 03'00	0°34'12		-2838 Jan 05 j 15:34	30° R Y	
max. Earth dist.	-2845 Apr 17 j 08:43	3° Y 01'44	20.24882 AU	direct	-2838 Jan 29 j 05:40	29° Y 45'22	
morning rise	-2845 May 04 j 12:34	4° Y 01'52			-2838 Feb 21 j 16:49	0° B	
retrograde	-2845 Aug 06 j 12:21	7° Y 16'06		evening set	-2838 May 03 j 05:36	3° B 04'32	

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Attention, astronomical year style is used: The year -2838 in astronomical counting style is the year 2839 BCE in historical counting style.

max. Earth dist.	-2838 May 19 j 04:03	4°8'01"54	19.79113 AU	minimum elong	-2833 Jun 13 j 12:18	27°8'11"25	0°06'20
				behind sun begin	-2833 Jun 13 j 05:55	27°8'10"28	
conjunction	-2838 May 20 j 01:51	4°8'05"12	-0°12'38	behind sun end	-2833 Jun 13 j 18:41	27°8'12"23	
minimum elong	-2838 May 20 j 01:51	4°8'05"12	0°12'35	morning rise	-2833 Jun 30 j 04:37	28°8'12"45	
behind sun begin	-2838 May 19 j 21:38	4°8'04"35			-2833 Aug 01 j 14:57	0°0'00	
behind sun end	-2838 May 20 j 06:04	4°8'05"49		retrograde	-2833 Sep 30 j 10:08	1°0'33"10	
morning rise	-2838 Jun 05 j 21:08	5°8'05"47			-2833 Dec 01 j 13:43	30°0'00	
retrograde	-2838 Sep 06 j 22:48	8°8'24"04		opposition	-2833 Dec 12 j 21:06	29°8'30"35	0°08'59
opposition	-2838 Nov 19 j 22:41	6°8'21"49	-0°12'01	min. Earth dist.	-2833 Dec 13 j 21:28	29°8'27"55	17.48463 AU
min. Earth dist.	-2838 Nov 20 j 16:57	6°8'19"50	17.76017 AU	direct	-2832 Feb 26 j 11:05	27°8'24"54	
direct	-2837 Feb 03 j 01:03	4°8'17"53			-2832 May 17 j 08:00	0°0'00	
evening set	-2837 May 08 j 06:41	7°8'38"20		evening set	-2832 May 31 j 21:13	0°0'51"04	
max. Earth dist.	-2837 May 24 j 03:28	8°8'35"42	19.72945 AU	max. Earth dist.	-2832 Jun 16 j 09:58	1°0'48"17	19.46223 AU
conjunction	-2837 May 25 j 02:56	8°8'39"15	-0°09'00	conjunction	-2832 Jun 17 j 15:33	1°0'52"52	0°10'01
minimum elong	-2837 May 25 j 02:55	8°8'39"15	0°08'57	minimum elong	-2832 Jun 17 j 15:33	1°0'52"52	0°10'06
behind sun begin	-2837 May 24 j 21:09	8°8'38"24		behind sun begin	-2832 Jun 17 j 10:10	1°0'52"03	
behind sun end	-2837 May 25 j 08:42	8°8'40"07		behind sun end	-2832 Jun 17 j 20:57	1°0'53"41	
morning rise	-2837 Jun 10 j 21:44	9°8'40"01		morning rise	-2832 Jul 04 j 07:10	2°0'54"16	
retrograde	-2837 Sep 11 j 19:10	12°8'58"48		retrograde	-2832 Oct 04 j 08:15	6°0'15"02	
opposition	-2837 Nov 24 j 16:07	10°8'56"29	-0°07'54	opposition	-2832 Dec 16 j 18:02	4°0'12"25	0°13'11
min. Earth dist.	-2837 Nov 25 j 12:48	10°8'54"14	17.69938 AU	min. Earth dist.	-2832 Dec 17 j 18:23	4°0'09"45	17.44169 AU
direct	-2836 Feb 07 j 19:35	8°8'52"11		direct	-2831 Mar 02 j 11:48	2°0'06"27	
evening set	-2836 May 12 j 08:30	12°8'13"53		evening set	-2831 Jun 06 j 01:27	5°0'33"36	
max. Earth dist.	-2836 May 28 j 03:06	13°8'11"08	19.66968 AU				
conjunction	-2836 May 29 j 04:35	13°8'15"01	-0°05'17	conjunction	-2831 Jun 22 j 19:15	6°0'35"29	0°13'44
minimum elong	-2836 May 29 j 04:34	13°8'15"01	0°05'14	minimum elong	-2831 Jun 22 j 19:15	6°0'35"29	0°13'49
behind sun begin	-2836 May 28 j 22:00	13°8'14"03		behind sun begin	-2831 Jun 22 j 15:51	6°0'34"58	
behind sun end	-2836 May 29 j 11:08	13°8'16"00		behind sun end	-2831 Jun 22 j 22:40	6°0'36"00	
morning rise	-2836 Jun 14 j 23:03	14°8'15"58		max. Earth dist.	-2831 Jun 21 j 14:31	6°0'31"01	19.42189 AU
	-2836 Jun 27 j 14:23	15°8'00"00		morning rise	-2831 Jul 09 j 09:44	7°0'36"57	
retrograde	-2836 Sep 15 j 17:11	17°8'35"13		retrograde	-2831 Oct 09 j 07:04	10°0'58"00	
opposition	-2836 Nov 28 j 10:13	15°8'32"49	-0°03'43	opposition	-2831 Dec 21 j 15:54	8°0'55"24	0°17'18
min. Earth dist.	-2836 Nov 29 j 07:20	15°8'30"31	17.64072 AU	min. Earth dist.	-2831 Dec 22 j 16:44	8°0'52"41	17.40419 AU
	-2836 Dec 11 j 02:50	15°8'00"00		direct	-2830 Mar 07 j 12:26	6°0'49"14	
direct	-2835 Feb 11 j 16:44	13°8'28"09		evening set	-2830 Jun 11 j 05:57	10°0'17"15	
	-2835 Apr 13 j 08:25	15°8'00"00		conjunction	-2830 Jun 27 j 22:48	11°0'19"12	0°17'23
evening set	-2835 May 17 j 10:55	16°8'51"03		minimum elong	-2830 Jun 27 j 22:48	11°0'19"12	0°17'28
max. Earth dist.	-2835 Jun 02 j 04:32	17°8'48"23	19.61220 AU	max. Earth dist.	-2830 Jun 26 j 16:53	11°0'14"33	19.38733 AU
conjunction	-2835 Jun 03 j 06:49	17°8'52"24	-0°01'29	morning rise	-2830 Jul 14 j 12:25	12°0'20"43	
minimum elong	-2835 Jun 03 j 06:48	17°8'52"24	0°01'24	retrograde	-2830 Oct 14 j 06:17	15°0'42"03	
behind sun begin	-2835 Jun 03 j 00:01	17°8'51"23		opposition	-2830 Dec 26 j 14:20	13°0'39"29	0°21'19
behind sun end	-2835 Jun 03 j 13:36	17°8'53"25		min. Earth dist.	-2830 Dec 27 j 15:03	13°0'36"47	17.37268 AU
morning rise	-2835 Jun 20 j 00:32	18°8'53"29		direct	-2829 Mar 12 j 14:06	11°0'33"10	
retrograde	-2835 Sep 20 j 14:16	22°8'13"09		evening set	-2829 Jun 16 j 10:42	15°0'02"00	
asc. node	-2835 Oct 20 j 02:18	21°8'49"46		max. Earth dist.	-2829 Jul 01 j 22:11	15°0'59"31	19.35873 AU
opposition	-2835 Dec 03 j 05:10	20°8'10"42	0°00'31	conjunction	-2829 Jul 03 j 02:51	16°0'04"00	0°20'56
min. Earth dist.	-2835 Dec 04 j 04:10	20°8'08"11	17.58481 AU	minimum elong	-2829 Jul 03 j 02:51	16°0'04"00	0°21'00
direct	-2834 Feb 16 j 13:22	18°8'05"40		morning rise	-2829 Jul 19 j 15:16	17°0'05"31	
evening set	-2834 May 22 j 13:56	21°8'29"43		retrograde	-2829 Oct 19 j 06:25	20°0'27"04	
max. Earth dist.	-2834 Jun 07 j 05:14	22°8'26"55	19.55806 AU	opposition	-2829 Dec 31 j 13:19	18°0'24"37	0°25'13
conjunction	-2834 Jun 08 j 09:20	22°8'31"14	0°02'27	min. Earth dist.	-2828 Jan 01 j 14:03	18°0'21"55	17.34696 AU
minimum elong	-2834 Jun 08 j 09:20	22°8'31"14	0°02'30	direct	-2828 Mar 16 j 15:54	16°0'18"12	
behind sun begin	-2834 Jun 08 j 02:33	22°8'30"13		evening set	-2828 Jun 20 j 15:51	19°0'47"45	
behind sun end	-2834 Jun 08 j 16:06	22°8'32"15		max. Earth dist.	-2828 Jul 06 j 01:18	20°0'45"08	19.33591 AU
morning rise	-2834 Jun 25 j 02:33	23°8'32"27		conjunction	-2828 Jul 07 j 06:54	20°0'49"46	0°24'21
retrograde	-2834 Sep 25 j 12:12	26°8'52"32		minimum elong	-2828 Jul 07 j 06:54	20°0'49"46	0°24'26
opposition	-2834 Dec 08 j 00:42	24°8'49"59	0°04'45	morning rise	-2828 Jul 23 j 18:17	21°0'51"16	
min. Earth dist.	-2834 Dec 08 j 23:50	24°8'47"27	17.53263 AU	retrograde	-2828 Oct 23 j 06:40	25°0'13"01	
direct	-2833 Feb 21 j 12:09	22°8'44"36		opposition	-2827 Jan 04 j 13:04	23°0'10"41	0°28'58
evening set	-2833 May 27 j 17:13	26°8'09"45		min. Earth dist.	-2827 Jan 05 j 13:58	23°0'07"58	17.32703 AU
max. Earth dist.	-2833 Jun 12 j 08:21	27°8'07"07	19.50781 AU	direct	-2827 Mar 21 j 17:48	21°0'04"12	
conjunction	-2833 Jun 13 j 12:18	27°8'11"25	0°06'15	evening set	-2827 Jun 25 j 20:53	24°0'34"22	
				max. Earth dist.	-2827 Jul 11 j 06:41	25°0'31"56	19.31863 AU

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Attention, astronomical year style is used: The year -2827 in astronomical counting style is the year 2828 BCE in historical counting style.

conjunction	-2827 Jul 12 j 10:59	25°II36'23	0°27'37	direct	-2820 Apr 24 j 22:35	24°☾35'45	
minimum elong	-2827 Jul 12 j 10:59	25°II36'23	0°27'43	evening set	-2820 Jul 30 j 02:58	28°☾06'39	
morning rise	-2827 Jul 28 j 21:04	26°II37'50		max. Earth dist.	-2820 Aug 14 j 10:20	29°☾04'16	19.33405 AU
retrograde	-2827 Oct 28 j 07:59	29°II59'44					
opposition	-2826 Jan 09 j 13:29	27°II57'31	0°32'31	conjunction	-2820 Aug 15 j 08:27	29°☾07'46	0°44'06
min. Earth dist.	-2826 Jan 10 j 13:49	27°II54'52	17.31231 AU	minimum elong	-2820 Aug 15 j 08:27	29°☾07'46	0°44'11
direct	-2826 Mar 26 j 21:01	25°II51'01			-2820 Aug 29 j 04:16	0°♈	
evening set	-2826 Jul 01 j 02:07	29°II21'41		morning rise	-2820 Aug 31 j 09:38	0°♈08'16	
	-2826 Jul 11 j 08:39	0°☾		retrograde	-2820 Nov 30 j 08:24	3°♈29'36	
max. Earth dist.	-2826 Jul 16 j 10:19	0°☾19'08	19.30645 AU	opposition	-2819 Feb 12 j 02:39	1°♈27'56	0°49'54
				min. Earth dist.	-2819 Feb 12 j 22:32	1°♈25'48	17.34489 AU
conjunction	-2826 Jul 17 j 15:00	0°☾23'39	0°30'43		-2819 Mar 21 j 19:54	30°♈☾	
minimum elong	-2826 Jul 17 j 15:00	0°☾23'39	0°30'47	direct	-2819 Apr 30 j 02:01	29°☾21'45	
morning rise	-2826 Aug 02 j 23:53	1°☾25'02			-2819 Jun 07 j 12:24	0°♈	
retrograde	-2826 Nov 02 j 08:11	4°☾47'01		evening set	-2819 Aug 04 j 05:02	2°♈52'14	
opposition	-2825 Jan 14 j 14:22	2°☾44'55	0°35'51				
min. Earth dist.	-2825 Jan 15 j 15:02	2°☾42'14	17.30275 AU	conjunction	-2819 Aug 20 j 09:04	3°♈53'07	0°45'19
direct	-2825 Mar 31 j 23:09	0°☾38'24		minimum elong	-2819 Aug 20 j 09:04	3°♈53'07	0°45'23
evening set	-2825 Jul 06 j 07:07	4°☾09'26		max. Earth dist.	-2819 Aug 19 j 12:01	3°♈49'48	19.35643 AU
				morning rise	-2819 Sep 05 j 09:12	4°♈53'25	
conjunction	-2825 Jul 22 j 18:54	5°☾11'20	0°33'35	retrograde	-2819 Dec 05 j 08:32	8°♈14'29	
minimum elong	-2825 Jul 22 j 18:54	5°☾11'20	0°33'41	opposition	-2818 Feb 17 j 04:59	6°♈12'52	0°51'05
max. Earth dist.	-2825 Jul 21 j 15:15	5°☾06'58	19.29926 AU	min. Earth dist.	-2818 Feb 17 j 22:14	6°♈11'01	17.37010 AU
morning rise	-2825 Aug 08 j 02:33	6°☾12'38		direct	-2818 May 05 j 08:04	4°♈06'51	
retrograde	-2825 Nov 07 j 10:01	9°☾34'38		evening set	-2818 Aug 09 j 06:18	7°♈36'49	
opposition	-2824 Jan 19 j 15:45	7°☾32'39	0°38'57				
min. Earth dist.	-2824 Jan 20 j 15:21	7°☾30'04	17.29780 AU	conjunction	-2818 Aug 25 j 09:13	8°♈37'28	0°46'14
direct	-2824 Apr 05 j 04:05	5°☾26'08		minimum elong	-2818 Aug 25 j 09:13	8°♈37'28	0°46'18
evening set	-2824 Jul 10 j 12:04	8°☾57'25		max. Earth dist.	-2818 Aug 24 j 15:11	8°♈34'37	19.38454 AU
				morning rise	-2818 Sep 10 j 08:01	9°♈37'32	
conjunction	-2824 Jul 26 j 22:35	9°☾59'12	0°36'14	retrograde	-2818 Dec 10 j 05:49	12°♈58'16	
minimum elong	-2824 Jul 26 j 22:35	9°☾59'12	0°36'19	opposition	-2817 Feb 22 j 07:13	10°♈56'46	0°51'54
max. Earth dist.	-2824 Jul 25 j 19:15	9°☾54'53	19.29659 AU	min. Earth dist.	-2817 Feb 22 j 23:33	10°♈55'01	17.40115 AU
morning rise	-2824 Aug 12 j 04:53	11°☾00'23		direct	-2817 May 10 j 11:07	8°♈50'57	
retrograde	-2824 Nov 11 j 09:24	14°☾22'22		evening set	-2817 Aug 14 j 06:57	12°♈20'18	
opposition	-2823 Jan 23 j 17:35	12°☾20'27	0°41'46				
min. Earth dist.	-2823 Jan 24 j 17:31	12°☾17'51	17.29754 AU	conjunction	-2817 Aug 30 j 08:28	13°♈20'42	0°46'50
direct	-2823 Apr 10 j 06:52	10°☾13'58		minimum elong	-2817 Aug 30 j 08:28	13°♈20'41	0°46'53
evening set	-2823 Jul 15 j 16:38	13°☾45'21		max. Earth dist.	-2817 Aug 29 j 15:29	13°♈18'01	19.41863 AU
max. Earth dist.	-2823 Jul 30 j 23:26	14°☾42'49	19.29870 AU	morning rise	-2817 Sep 15 j 06:19	14°♈20'32	
					-2817 Sep 26 j 04:11	15°♈	
conjunction	-2823 Aug 01 j 01:53	14°☾47'00	0°38'38	retrograde	-2817 Dec 15 j 05:09	17°♈40'55	
minimum elong	-2823 Aug 01 j 01:53	14°☾47'00	0°38'43	opposition	-2816 Feb 27 j 09:19	15°♈39'32	0°52'23
morning rise	-2823 Aug 17 j 06:57	15°☾48'02		min. Earth dist.	-2816 Feb 27 j 22:53	15°♈38'06	17.43812 AU
retrograde	-2823 Nov 16 j 11:06	19°☾09'57			-2816 Mar 14 j 02:33	15°♈♈	
opposition	-2822 Jan 28 j 19:38	17°☾08'06	0°44'17	direct	-2816 May 14 j 14:48	13°♈34'00	
min. Earth dist.	-2822 Jan 29 j 17:54	17°☾05'42	17.30193 AU		-2816 Jul 12 j 04:06	15°♈	
direct	-2822 Apr 15 j 12:48	15°☾01'40		evening set	-2816 Aug 18 j 06:35	17°♈02'39	
evening set	-2822 Jul 20 j 20:34	18°☾33'00					
max. Earth dist.	-2822 Aug 05 j 03:27	19°☾30'32	19.30547 AU	conjunction	-2816 Sep 03 j 07:02	18°♈02'47	0°47'06
				minimum elong	-2816 Sep 03 j 07:02	18°♈02'47	0°47'10
conjunction	-2822 Aug 06 j 04:36	19°☾34'30	0°40'45	max. Earth dist.	-2816 Sep 02 j 17:26	18°♈00'38	19.45844 AU
minimum elong	-2822 Aug 06 j 04:36	19°☾34'30	0°40'49	morning rise	-2816 Sep 19 j 03:38	19°♈02'21	
morning rise	-2822 Aug 22 j 08:19	20°☾35'23		retrograde	-2816 Dec 19 j 02:53	22°♈22'23	
retrograde	-2822 Nov 21 j 09:46	23°☾57'09		opposition	-2815 Mar 03 j 11:24	20°♈21'10	0°52'31
opposition	-2821 Feb 02 j 21:58	21°☾55'23	0°46'29	min. Earth dist.	-2815 Mar 03 j 23:32	20°♈19'53	17.48055 AU
min. Earth dist.	-2821 Feb 03 j 20:19	21°☾52'58	17.31116 AU	direct	-2815 May 19 j 17:15	18°♈15'58	
direct	-2821 Apr 20 j 16:02	19°☾49'00		evening set	-2815 Aug 23 j 05:34	21°♈43'49	
evening set	-2821 Jul 26 j 00:08	23°☾20'11					
max. Earth dist.	-2821 Aug 10 j 06:27	24°☾17'39	19.31723 AU	conjunction	-2815 Sep 08 j 04:41	22°♈43'39	0°47'05
				minimum elong	-2815 Sep 08 j 04:40	22°♈43'39	0°47'09
conjunction	-2821 Aug 11 j 06:48	24°☾21'30	0°42'35	max. Earth dist.	-2815 Sep 07 j 16:16	22°♈41'42	19.50360 AU
minimum elong	-2821 Aug 11 j 06:48	24°☾21'30	0°42'39	morning rise	-2815 Sep 24 j 00:28	23°♈43'00	
morning rise	-2821 Aug 27 j 09:22	25°☾22'12		retrograde	-2815 Dec 24 j 01:31	27°♈02'38	
retrograde	-2821 Nov 26 j 10:36	28°☾43'46		opposition	-2814 Mar 08 j 13:06	25°♈01'35	0°52'18
opposition	-2820 Feb 08 j 00:06	26°☾42'03	0°48'22	min. Earth dist.	-2814 Mar 08 j 22:41	25°♈00'34	17.52816 AU
min. Earth dist.	-2820 Feb 08 j 20:22	26°☾39'52	17.32536 AU	direct	-2814 May 24 j 18:38	22°♈56'44	

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Attention, astronomical year style is used: The year -2814 in astronomical counting style is the year 2815 BCE in historical counting style.

evening set	-2814 Aug 28 j 03:26	26° Ω 23'42		max. Earth dist.	-2808 Oct 09 j 16:12	24° \mathbb{N} 47'45	19.90997 AU
				morning rise	-2808 Oct 25 j 04:06	25° \mathbb{N} 44'45	
conjunction	-2814 Sep 13 j 01:37	27° Ω 23'16	0°46'44	retrograde	-2807 Jan 24 j 19:03	29° \mathbb{N} 00'45	
minimum elong	-2814 Sep 13 j 01:37	27° Ω 23'16	0°46'47	opposition	-2807 Apr 10 j 14:05	27° \mathbb{N} 00'33	0°41'47
max. Earth dist.	-2814 Sep 12 j 16:34	27° Ω 21'51	19.55345 AU	min. Earth dist.	-2807 Apr 10 j 09:45	27° \mathbb{N} 01'00	17.94187 AU
morning rise	-2814 Sep 28 j 20:21	28° Ω 22'20		direct	-2807 Jun 26 j 22:15	24° \mathbb{N} 58'24	
	-2814 Oct 27 j 13:34	0° \mathbb{N}		evening set	-2807 Sep 28 j 12:01	28° \mathbb{N} 17'09	
retrograde	-2814 Dec 28 j 23:14	1° \mathbb{N} 41'32					
	-2813 Mar 05 j 22:30	30° \mathbb{R} Ω		conjunction	-2807 Oct 14 j 04:00	29° \mathbb{N} 14'33	0°36'27
opposition	-2813 Mar 13 j 14:35	29° Ω 40'40	0°51'44	minimum elong	-2807 Oct 14 j 04:00	29° \mathbb{N} 14'33	0°36'27
min. Earth dist.	-2813 Mar 13 j 22:29	29° Ω 39'50	17.57989 AU	max. Earth dist.	-2807 Oct 14 j 08:42	29° \mathbb{N} 15'16	19.97421 AU
direct	-2813 May 29 j 20:56	27° Ω 36'14			-2807 Oct 26 j 12:43	0° Ω	
	-2813 Aug 15 j 08:46	0° \mathbb{N}		morning rise	-2807 Oct 29 j 18:33	0° Ω 11'44	
evening set	-2813 Sep 02 j 00:43	1° \mathbb{N} 02'14		retrograde	-2806 Jan 29 j 11:03	3° Ω 27'08	
				opposition	-2806 Apr 15 j 11:47	1° Ω 26'58	0°39'11
conjunction	-2813 Sep 17 j 21:39	2° \mathbb{N} 01'29	0°46'06	min. Earth dist.	-2806 Apr 15 j 06:15	1° Ω 27'32	18.00669 AU
minimum elong	-2813 Sep 17 j 21:39	2° \mathbb{N} 01'29	0°46'08		-2806 May 24 j 16:16	30° \mathbb{R} \mathbb{N}	
max. Earth dist.	-2813 Sep 17 j 13:43	2° \mathbb{N} 00'15	19.60707 AU	direct	-2806 Jul 01 j 18:12	29° \mathbb{N} 25'08	
morning rise	-2813 Oct 03 j 15:39	3° \mathbb{N} 00'18			-2806 Aug 07 j 16:20	0° Ω	
retrograde	-2812 Jan 02 j 20:24	6° \mathbb{N} 19'03		evening set	-2806 Oct 03 j 02:17	2° Ω 42'33	
opposition	-2812 Mar 17 j 15:40	4° \mathbb{N} 18'20	0°50'50				
min. Earth dist.	-2812 Mar 17 j 21:29	4° \mathbb{N} 17'44	17.63521 AU	conjunction	-2806 Oct 18 j 17:47	3° Ω 39'39	0°34'02
direct	-2812 Jun 02 j 21:25	2° \mathbb{N} 14'17		minimum elong	-2806 Oct 18 j 17:47	3° Ω 39'39	0°34'02
evening set	-2812 Sep 05 j 20:59	5° \mathbb{N} 39'15		max. Earth dist.	-2806 Oct 19 j 00:49	3° Ω 40'43	20.03955 AU
				morning rise	-2806 Nov 03 j 08:03	4° Ω 36'35	
conjunction	-2812 Sep 21 j 17:02	6° \mathbb{N} 38'12	0°45'09	retrograde	-2805 Feb 03 j 03:27	7° Ω 51'21	
minimum elong	-2812 Sep 21 j 17:02	6° \mathbb{N} 38'12	0°45'11	opposition	-2805 Apr 20 j 08:37	5° Ω 51'13	0°36'23
max. Earth dist.	-2812 Sep 21 j 12:11	6° \mathbb{N} 37'27	19.66389 AU	min. Earth dist.	-2805 Apr 20 j 00:05	5° Ω 52'06	18.07243 AU
morning rise	-2812 Oct 07 j 10:07	7° \mathbb{N} 36'44		direct	-2805 Jul 06 j 15:38	3° Ω 49'44	
retrograde	-2811 Jan 06 j 17:13	10° \mathbb{N} 54'59		evening set	-2805 Oct 07 j 15:37	7° Ω 05'48	
opposition	-2811 Mar 22 j 16:30	8° \mathbb{N} 54'26	0°49'37				
min. Earth dist.	-2811 Mar 22 j 20:15	8° \mathbb{N} 54'03	17.69324 AU	conjunction	-2805 Oct 23 j 06:34	8° Ω 02'36	0°31'27
direct	-2811 Jun 07 j 23:38	6° \mathbb{N} 50'48		minimum elong	-2805 Oct 23 j 06:34	8° Ω 02'36	0°31'26
evening set	-2811 Sep 10 j 16:19	10° \mathbb{N} 14'37		max. Earth dist.	-2805 Oct 23 j 15:44	8° Ω 04'00	20.10580 AU
				morning rise	-2805 Nov 07 j 20:37	8° Ω 59'17	
conjunction	-2811 Sep 26 j 11:17	11° \mathbb{N} 13'16	0°43'56	retrograde	-2804 Feb 07 j 17:53	12° Ω 13'28	
minimum elong	-2811 Sep 26 j 11:17	11° \mathbb{N} 13'16	0°43'57	opposition	-2804 Apr 24 j 04:52	10° Ω 13'23	0°33'24
max. Earth dist.	-2811 Sep 26 j 07:43	11° \mathbb{N} 12'42	19.72310 AU	min. Earth dist.	-2804 Apr 23 j 19:08	10° Ω 14'23	18.13937 AU
morning rise	-2811 Oct 12 j 03:48	12° \mathbb{N} 11'31		direct	-2804 Jul 10 j 09:24	8° Ω 12'16	
retrograde	-2810 Jan 11 j 12:40	15° \mathbb{N} 29'17		evening set	-2804 Oct 11 j 04:02	11° Ω 26'59	
opposition	-2810 Mar 27 j 16:49	13° \mathbb{N} 28'50	0°48'05				
min. Earth dist.	-2810 Mar 27 j 18:52	13° \mathbb{N} 28'37	17.75350 AU	conjunction	-2804 Oct 26 j 18:35	12° Ω 23'31	0°28'42
direct	-2810 Jun 12 j 23:15	11° \mathbb{N} 25'35		minimum elong	-2804 Oct 26 j 18:35	12° Ω 23'31	0°28'40
evening set	-2810 Sep 15 j 10:43	14° \mathbb{N} 48'13		max. Earth dist.	-2804 Oct 27 j 05:55	12° Ω 25'14	20.17335 AU
				morning rise	-2804 Nov 11 j 08:30	13° Ω 19'58	
conjunction	-2810 Oct 01 j 04:56	15° \mathbb{N} 46'33	0°42'26	retrograde	-2803 Feb 11 j 09:24	16° Ω 33'33	
minimum elong	-2810 Oct 01 j 04:56	15° \mathbb{N} 46'33	0°42'27	min. Earth dist.	-2803 Apr 28 j 11:15	14° Ω 34'52	18.20739 AU
max. Earth dist.	-2810 Oct 01 j 04:02	15° \mathbb{N} 46'24	19.78421 AU	opposition	-2803 Apr 29 j 00:11	14° Ω 33'33	0°30'15
morning rise	-2810 Oct 16 j 20:44	16° \mathbb{N} 44'32		direct	-2803 Jul 15 j 04:37	12° Ω 32'50	
retrograde	-2809 Jan 16 j 07:41	20° \mathbb{N} 01'43		evening set	-2803 Oct 15 j 15:30	15° Ω 46'14	
opposition	-2809 Apr 01 j 16:24	18° \mathbb{N} 01'24	0°46'15				
min. Earth dist.	-2809 Apr 01 j 16:10	18° \mathbb{N} 01'25	17.81519 AU	conjunction	-2803 Oct 31 j 05:43	16° Ω 42'30	0°25'48
direct	-2809 Jun 18 j 00:38	15° \mathbb{N} 58'32		minimum elong	-2803 Oct 31 j 05:43	16° Ω 42'30	0°25'47
evening set	-2809 Sep 20 j 04:17	19° \mathbb{N} 19'55		max. Earth dist.	-2803 Oct 31 j 19:20	16° Ω 44'33	20.24177 AU
				morning rise	-2803 Nov 15 j 19:37	17° Ω 38'44	
conjunction	-2809 Oct 05 j 21:36	20° \mathbb{N} 17'56	0°40'40	retrograde	-2802 Feb 15 j 22:38	20° Ω 51'45	
minimum elong	-2809 Oct 05 j 21:36	20° \mathbb{N} 17'56	0°40'40	opposition	-2802 May 03 j 18:52	18° Ω 51'51	0°26'57
max. Earth dist.	-2809 Oct 05 j 22:02	20° \mathbb{N} 18'00	19.84653 AU	min. Earth dist.	-2802 May 03 j 04:58	18° Ω 53'16	18.27619 AU
morning rise	-2809 Oct 21 j 12:56	21° \mathbb{N} 15'39		direct	-2802 Jul 19 j 19:59	16° Ω 51'33	
retrograde	-2808 Jan 21 j 01:25	24° \mathbb{N} 32'16		evening set	-2802 Oct 20 j 02:14	20° Ω 03'42	
opposition	-2808 Apr 05 j 15:37	22° \mathbb{N} 32'00	0°44'08				
min. Earth dist.	-2808 Apr 05 j 13:59	22° \mathbb{N} 32'10	17.87811 AU	conjunction	-2802 Nov 04 j 16:12	20° Ω 59'42	0°22'48
direct	-2808 Jun 21 j 22:36	20° \mathbb{N} 29'30		minimum elong	-2802 Nov 04 j 16:12	20° Ω 59'42	0°22'45
evening set	-2808 Sep 23 j 20:35	23° \mathbb{N} 49'35		max. Earth dist.	-2802 Nov 05 j 07:31	21° Ω 02'00	20.31076 AU
				morning rise	-2802 Nov 20 j 06:09	21° Ω 55'42	
conjunction	-2808 Oct 09 j 13:16	24° \mathbb{N} 47'18	0°38'40	retrograde	-2801 Feb 20 j 13:23	25° Ω 08'10	
minimum elong	-2808 Oct 09 j 13:16	24° \mathbb{N} 47'18	0°38'42	opposition	-2801 May 08 j 12:31	23° Ω 08'25	0°23'32

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Attention, astronomical year style is used: The year -2801 in astronomical counting style is the year 2802 BCE in historical counting style.

min. Earth dist.	-2801 May 07 j 19:43	23° <u>♂</u> 10'07	18.34513 AU	minimum elong	-2796 Nov 28 j 18:30	16° <u>♂</u> 10'11	0°03'05
direct	-2801 Jul 24 j 13:02	21° <u>♂</u> 08'33		behind sun begin	-2796 Nov 28 j 12:00	16° <u>♂</u> 09'15	
evening set	-2801 Oct 24 j 12:12	24° <u>♂</u> 19'28		behind sun end	-2796 Nov 29 j 01:00	16° <u>♂</u> 11'07	
				max. Earth dist.	-2796 Nov 29 j 17:56	16° <u>♂</u> 13'38	20.69688 AU
conjunction	-2801 Nov 09 j 02:00	25° <u>♂</u> 15'13	0°19'40	morning rise	-2796 Dec 14 j 10:09	17° <u>♂</u> 05'11	
minimum elong	-2801 Nov 09 j 02:00	25° <u>♂</u> 15'13	0°19'39	retrograde	-2795 Mar 17 j 15:25	20° <u>♂</u> 14'47	
max. Earth dist.	-2801 Nov 09 j 19:30	25° <u>♂</u> 17'51	20.37952 AU	min. Earth dist.	-2795 Jun 02 j 08:49	18° <u>♂</u> 18'04	18.72440 AU
morning rise	-2801 Nov 24 j 16:02	26° <u>♂</u> 11'02		opposition	-2795 Jun 03 j 08:51	18° <u>♂</u> 15'39	0°01'29
retrograde	-2800 Feb 25 j 01:43	29° <u>♂</u> 22'59		direct	-2795 Aug 18 j 19:38	16° <u>♂</u> 18'02	
opposition	-2800 May 12 j 05:48	27° <u>♂</u> 23'22	0°20'00	desc. node	-2795 Oct 28 j 01:44	18° <u>♂</u> 15'38	
min. Earth dist.	-2800 May 11 j 12:20	27° <u>♂</u> 25'08	18.41364 AU	evening set	-2795 Nov 17 j 10:57	19° <u>♂</u> 22'15	
direct	-2800 Jul 28 j 02:36	25° <u>♂</u> 23'56					
evening set	-2800 Oct 27 j 21:23	28° <u>♂</u> 33'38		conjunction	-2795 Dec 03 j 01:16	20° <u>♂</u> 16'50	-0°00'21
				minimum elong	-2795 Dec 03 j 01:14	20° <u>♂</u> 16'50	0°00'25
conjunction	-2800 Nov 12 j 11:03	29° <u>♂</u> 29'09	0°16'28	behind sun begin	-2795 Dec 02 j 18:43	20° <u>♂</u> 15'54	
minimum elong	-2800 Nov 12 j 11:03	29° <u>♂</u> 29'09	0°16'25	behind sun end	-2795 Dec 03 j 07:44	20° <u>♂</u> 17'46	
max. Earth dist.	-2800 Nov 13 j 05:54	29° <u>♂</u> 31'58	20.44758 AU	max. Earth dist.	-2795 Dec 04 j 02:03	20° <u>♂</u> 20'29	20.75056 AU
	-2800 Nov 21 j 01:16	0° <u>♂</u>		morning rise	-2795 Dec 18 j 17:21	21° <u>♂</u> 11'42	
morning rise	-2800 Nov 28 j 01:19	0° <u>♂</u> 24'47		retrograde	-2794 Mar 22 j 00:44	24° <u>♂</u> 20'52	
retrograde	-2799 Feb 28 j 15:48	3° <u>♂</u> 36'14		opposition	-2794 Jun 07 j 21:48	22° <u>♂</u> 21'45	-0°02'15
opposition	-2799 May 16 j 22:13	1° <u>♂</u> 36'45	0°16'24	min. Earth dist.	-2794 Jun 06 j 21:57	22° <u>♂</u> 24'08	18.77610 AU
min. Earth dist.	-2799 May 16 j 02:12	1° <u>♂</u> 38'47	18.48099 AU	direct	-2794 Aug 23 j 06:54	20° <u>♂</u> 24'23	
	-2799 Jul 02 j 12:29	30° <u>♂</u> 3'♂		evening set	-2794 Nov 21 j 16:51	23° <u>♂</u> 27'36	
direct	-2799 Aug 01 j 17:59	29° <u>♂</u> 37'45					
	-2799 Aug 31 j 06:07	0° <u>♂</u>		conjunction	-2794 Dec 07 j 07:23	24° <u>♂</u> 22'03	-0°03'46
evening set	-2799 Nov 01 j 06:03	2° <u>♂</u> 46'17		minimum elong	-2794 Dec 07 j 07:23	24° <u>♂</u> 22'03	0°03'49
				behind sun begin	-2794 Dec 07 j 00:55	24° <u>♂</u> 21'07	
conjunction	-2799 Nov 16 j 19:43	3° <u>♂</u> 41'35	0°13'11	behind sun end	-2794 Dec 07 j 13:51	24° <u>♂</u> 22'58	
minimum elong	-2799 Nov 16 j 19:43	3° <u>♂</u> 41'35	0°13'09	max. Earth dist.	-2794 Dec 08 j 08:14	24° <u>♂</u> 25'41	20.80033 AU
behind sun begin	-2799 Nov 16 j 15:43	3° <u>♂</u> 41'01		morning rise	-2794 Dec 23 j 00:08	25° <u>♂</u> 16'48	
behind sun end	-2799 Nov 16 j 23:42	3° <u>♂</u> 42'10		retrograde	-2793 Mar 26 j 11:40	28° <u>♂</u> 25'33	
max. Earth dist.	-2799 Nov 17 j 16:31	3° <u>♂</u> 44'41	20.51396 AU	min. Earth dist.	-2793 Jun 11 j 08:31	26° <u>♂</u> 28'56	18.82398 AU
morning rise	-2799 Dec 02 j 10:11	4° <u>♂</u> 37'02		opposition	-2793 Jun 12 j 09:50	26° <u>♂</u> 26'24	-0°05'57
retrograde	-2798 Mar 05 j 03:36	7° <u>♂</u> 48'00		direct	-2793 Aug 27 j 17:11	24° <u>♂</u> 29'13	
opposition	-2798 May 21 j 13:53	5° <u>♂</u> 48'39	0°12'43	evening set	-2793 Nov 25 j 22:14	27° <u>♂</u> 31'31	
min. Earth dist.	-2798 May 20 j 17:41	5° <u>♂</u> 50'41	18.54641 AU				
direct	-2798 Aug 06 j 06:17	3° <u>♂</u> 50'03		conjunction	-2793 Dec 11 j 13:12	28° <u>♂</u> 25'50	-0°07'04
evening set	-2798 Nov 05 j 14:08	6° <u>♂</u> 57'27		minimum elong	-2793 Dec 11 j 13:12	28° <u>♂</u> 25'50	0°07'09
				behind sun begin	-2793 Dec 11 j 07:09	28° <u>♂</u> 24'58	
conjunction	-2798 Nov 21 j 03:49	7° <u>♂</u> 52'33	0°09'52	behind sun end	-2793 Dec 11 j 19:15	28° <u>♂</u> 26'41	
minimum elong	-2798 Nov 21 j 03:48	7° <u>♂</u> 52'33	0°09'49	max. Earth dist.	-2793 Dec 12 j 15:32	28° <u>♂</u> 29'40	20.84631 AU
behind sun begin	-2798 Nov 20 j 22:26	7° <u>♂</u> 51'47		morning rise	-2793 Dec 27 j 06:29	29° <u>♂</u> 20'29	
behind sun end	-2798 Nov 21 j 09:11	7° <u>♂</u> 53'20			-2792 Jan 08 j 03:13	0° <u>♂</u> ♂	
max. Earth dist.	-2798 Nov 22 j 01:19	7° <u>♂</u> 55'45	20.57815 AU	retrograde	-2792 Mar 29 j 19:36	2° <u>♂</u> 28'50	
morning rise	-2798 Dec 06 j 18:39	8° <u>♂</u> 47'50		opposition	-2792 Jun 15 j 21:23	0° <u>♂</u> 29'39	-0°09'36
retrograde	-2797 Mar 09 j 16:31	11° <u>♂</u> 58'20		min. Earth dist.	-2792 Jun 14 j 20:09	0° <u>♂</u> 32'11	18.86829 AU
min. Earth dist.	-2797 May 25 j 06:32	10° <u>♂</u> 01'20	18.60919 AU		-2792 Jun 28 j 09:22	30° <u>♂</u> ♂	
opposition	-2797 May 26 j 04:51	9° <u>♂</u> 59'06	0°08'59	direct	-2792 Aug 31 j 02:58	28° <u>♂</u> 32'39	
direct	-2797 Aug 10 j 19:58	8° <u>♂</u> 00'52			-2792 Oct 29 j 23:16	0° <u>♂</u> ♂	
evening set	-2797 Nov 09 j 21:34	11° <u>♂</u> 07'10		evening set	-2792 Nov 29 j 03:10	1° <u>♂</u> ♂34'05	
conjunction	-2797 Nov 25 j 11:22	12° <u>♂</u> 02'05	0°06'30	conjunction	-2792 Dec 14 j 18:30	2° <u>♂</u> 28'17	-0°10'19
minimum elong	-2797 Nov 25 j 11:22	12° <u>♂</u> 02'05	0°06'27	minimum elong	-2792 Dec 14 j 18:30	2° <u>♂</u> 28'17	0°10'24
behind sun begin	-2797 Nov 25 j 05:12	12° <u>♂</u> 01'12		behind sun begin	-2792 Dec 14 j 13:19	2° <u>♂</u> 27'32	
behind sun end	-2797 Nov 25 j 17:31	12° <u>♂</u> 02'58		behind sun end	-2792 Dec 14 j 23:42	2° <u>♂</u> 29'01	
max. Earth dist.	-2797 Nov 26 j 10:32	12° <u>♂</u> 05'31	20.63922 AU	max. Earth dist.	-2792 Dec 15 j 20:55	2° <u>♂</u> 32'07	20.88904 AU
morning rise	-2797 Dec 11 j 02:30	12° <u>♂</u> 57'13		morning rise	-2792 Dec 30 j 12:33	3° <u>♂</u> 22'51	
	-2796 Jan 20 j 11:18	15° <u>♂</u>		retrograde	-2791 Apr 03 j 05:56	6° <u>♂</u> 30'51	
retrograde	-2796 Mar 13 j 03:26	16° <u>♂</u> 07'16		min. Earth dist.	-2791 Jun 19 j 05:35	4° <u>♂</u> 34'17	18.90949 AU
	-2796 May 07 j 11:29	15° <u>♂</u> ♂		opposition	-2791 Jun 20 j 08:10	4° <u>♂</u> 31'38	-0°13'11
opposition	-2796 May 29 j 19:19	14° <u>♂</u> 08'06	0°05'14	direct	-2791 Sep 04 j 11:49	2° <u>♂</u> 34'47	
min. Earth dist.	-2796 May 28 j 21:00	14° <u>♂</u> 10'20	18.66863 AU	evening set	-2791 Dec 03 j 07:50	5° <u>♂</u> 35'26	
direct	-2796 Aug 14 j 07:50	12° <u>♂</u> 10'13					
	-2796 Nov 08 j 16:13	15° <u>♂</u>		conjunction	-2791 Dec 18 j 23:44	6° <u>♂</u> 29'32	-0°13'30
evening set	-2796 Nov 13 j 04:33	15° <u>♂</u> 15'26		minimum elong	-2791 Dec 18 j 23:44	6° <u>♂</u> 29'32	0°13'35
				behind sun begin	-2791 Dec 18 j 20:02	6° <u>♂</u> 29'01	
conjunction	-2796 Nov 28 j 18:29	16° <u>♂</u> 10'11	0°03'08	behind sun end	-2791 Dec 19 j 03:26	6° <u>♂</u> 30'04	






























































































































Planetary Phenomena of Uranus from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 10

Attention, astronomical year style is used: The year -2791 in astronomical counting style is the year 2792 BCE in historical counting style.

max. Earth dist.	-2791 Dec 20 j 03:34	6°♂33'34	20.92854 AU	min. Earth dist.	-2784 Jul 17 j 19:05	2°♂26'53	19.10111 AU
morning rise	-2790 Jan 03 j 18:23	7°♂24'03		direct	-2784 Oct 02 j 08:10	0°♂28'27	
retrograde	-2790 Apr 07 j 12:51	10°♂31'43		evening set	-2784 Dec 30 j 12:49	3°♂25'51	
opposition	-2790 Jun 24 j 18:12	8°♂32'29	-0°16'40				
min. Earth dist.	-2790 Jun 23 j 15:48	8°♂35'07	18.94752 AU	conjunction	-2783 Jan 15 j 09:29	4°♂19'50	-0°33'03
direct	-2790 Sep 08 j 19:39	6°♂35'49		minimum elong	-2783 Jan 15 j 09:29	4°♂19'50	0°33'08
evening set	-2790 Dec 07 j 12:15	9°♂35'45		max. Earth dist.	-2783 Jan 16 j 12:59	4°♂23'46	21.10600 AU
				morning rise	-2783 Jan 31 j 10:09	5°♂14'21	
conjunction	-2790 Dec 23 j 04:37	10°♂29'47	-0°16'37	retrograde	-2783 May 05 j 23:20	8°♂21'08	
minimum elong	-2790 Dec 23 j 04:37	10°♂29'47	0°16'42	min. Earth dist.	-2783 Jul 22 j 02:53	6°♂24'37	19.11036 AU
max. Earth dist.	-2790 Dec 24 j 08:16	10°♂33'47	20.96511 AU	opposition	-2783 Jul 23 j 04:42	6°♂22'02	-0°37'48
morning rise	-2789 Jan 08 j 00:05	11°♂24'14		direct	-2783 Oct 06 j 13:21	4°♂26'15	
retrograde	-2789 Apr 11 j 22:42	14°♂31'38		evening set	-2782 Jan 03 j 17:23	7°♂23'31	
min. Earth dist.	-2789 Jun 28 j 00:19	12°♂35'09	18.98259 AU				
opposition	-2789 Jun 29 j 03:47	12°♂32'24	-0°20'04	conjunction	-2782 Jan 19 j 14:59	8°♂17'33	-0°35'18
direct	-2789 Sep 13 j 03:02	10°♂35'54		minimum elong	-2782 Jan 19 j 14:59	8°♂17'33	0°35'23
evening set	-2789 Dec 11 j 16:15	13°♂35'13		max. Earth dist.	-2782 Jan 20 j 18:24	8°♂21'27	21.11221 AU
				morning rise	-2782 Feb 04 j 16:28	9°♂12'08	
conjunction	-2789 Dec 27 j 09:17	14°♂29'11	-0°19'39	retrograde	-2782 May 10 j 06:50	12°♂18'54	
minimum elong	-2789 Dec 27 j 09:17	14°♂29'11	0°19'43	min. Earth dist.	-2782 Jul 26 j 11:07	10°♂22'15	19.11359 AU
max. Earth dist.	-2789 Dec 28 j 14:16	14°♂33'22	20.99846 AU	opposition	-2782 Jul 27 j 11:41	10°♂19'47	-0°40'12
morning rise	-2788 Jan 12 j 05:27	15°♂23'37		direct	-2782 Oct 10 j 18:17	8°♂24'00	
retrograde	-2788 Apr 15 j 05:26	18°♂30'48		evening set	-2781 Jan 07 j 22:07	11°♂21'10	
min. Earth dist.	-2788 Jul 01 j 09:46	16°♂34'18	19.01430 AU				
opposition	-2788 Jul 02 j 12:58	16°♂31'36	-0°23'21	conjunction	-2781 Jan 23 j 20:31	12°♂15'15	-0°37'23
direct	-2788 Sep 16 j 09:31	14°♂35'15		minimum elong	-2781 Jan 23 j 20:31	12°♂15'15	0°37'28
evening set	-2788 Dec 14 j 20:20	17°♂34'02		max. Earth dist.	-2781 Jan 24 j 22:06	12°♂18'54	21.11261 AU
				morning rise	-2781 Feb 08 j 23:05	13°♂09'55	
conjunction	-2788 Dec 30 j 13:58	18°♂27'58	-0°22'34	retrograde	-2781 May 14 j 15:22	16°♂16'44	
minimum elong	-2788 Dec 30 j 13:58	18°♂27'58	0°22'39	opposition	-2781 Jul 31 j 18:34	14°♂17'32	-0°42'24
max. Earth dist.	-2788 Dec 31 j 18:29	18°♂32'04	21.02852 AU	min. Earth dist.	-2781 Jul 30 j 18:42	14°♂19'55	19.11107 AU
morning rise	-2787 Jan 15 j 11:03	19°♂22'23		direct	-2781 Oct 14 j 23:13	12°♂21'40	
retrograde	-2787 Apr 19 j 14:55	22°♂29'24		evening set	-2780 Jan 12 j 02:48	15°♂18'47	
opposition	-2787 Jul 06 j 21:31	20°♂30'13	-0°26'32				
min. Earth dist.	-2787 Jul 05 j 17:46	20°♂32'59	19.04256 AU	conjunction	-2780 Jan 28 j 02:15	16°♂12'58	-0°39'17
direct	-2787 Sep 20 j 15:46	18°♂34'02		minimum elong	-2780 Jan 28 j 02:15	16°♂12'58	0°39'23
evening set	-2787 Dec 19 j 00:19	21°♂32'21		max. Earth dist.	-2780 Jan 29 j 03:46	16°♂16'36	21.10721 AU
				morning rise	-2780 Feb 13 j 05:42	17°♂07'44	
conjunction	-2786 Jan 03 j 18:43	22°♂26'16	-0°25'23	retrograde	-2780 May 17 j 22:27	20°♂14'36	
minimum elong	-2786 Jan 03 j 18:43	22°♂26'16	0°25'27	min. Earth dist.	-2780 Aug 03 j 02:35	18°♂17'34	19.10289 AU
max. Earth dist.	-2786 Jan 05 j 00:09	22°♂30'30	21.05472 AU	opposition	-2780 Aug 04 j 01:11	18°♂15'17	-0°44'24
morning rise	-2786 Jan 19 j 16:35	23°♂20'41		direct	-2780 Oct 18 j 03:56	16°♂19'20	
retrograde	-2786 Apr 23 j 22:07	26°♂27'34		evening set	-2779 Jan 15 j 07:57	19°♂16'28	
min. Earth dist.	-2786 Jul 10 j 02:40	24°♂31'09	19.06669 AU				
opposition	-2786 Jul 11 j 05:47	24°♂28'26	-0°29'34	conjunction	-2779 Jan 31 j 08:17	20°♂10'45	-0°41'00
direct	-2786 Sep 24 j 21:23	22°♂32'25		minimum elong	-2779 Jan 31 j 08:17	20°♂10'45	0°41'04
evening set	-2786 Dec 23 j 04:20	25°♂30'21		max. Earth dist.	-2779 Feb 01 j 07:56	20°♂14'06	21.09657 AU
				morning rise	-2779 Feb 16 j 12:52	21°♂05'36	
conjunction	-2785 Jan 07 j 23:22	26°♂24'16	-0°28'05	retrograde	-2779 May 22 j 07:11	24°♂12'34	
minimum elong	-2785 Jan 07 j 23:22	26°♂24'16	0°28'10	min. Earth dist.	-2779 Aug 07 j 09:45	22°♂15'18	19.08982 AU
max. Earth dist.	-2785 Jan 09 j 03:53	26°♂28'21	21.07673 AU	opposition	-2779 Aug 08 j 07:25	22°♂13'07	-0°46'11
morning rise	-2785 Jan 23 j 22:11	27°♂18'42		direct	-2779 Oct 22 j 08:30	20°♂17'00	
	-2785 Mar 26 j 14:28	0°♂		evening set	-2778 Jan 19 j 13:16	23°♂14'14	
retrograde	-2785 Apr 28 j 07:02	0°♂25'31					
	-2785 May 31 j 13:25	30°♂		conjunction	-2778 Feb 04 j 14:40	24°♂08'39	-0°42'31
min. Earth dist.	-2785 Jul 14 j 10:29	28°♂29'08	19.08643 AU	minimum elong	-2778 Feb 04 j 14:40	24°♂08'39	0°42'36
opposition	-2785 Jul 15 j 13:42	28°♂26'25	-0°32'29	max. Earth dist.	-2778 Feb 05 j 14:13	24°♂12'00	21.08109 AU
direct	-2785 Sep 29 j 02:58	26°♂30'30		morning rise	-2778 Feb 20 j 20:08	25°♂03'38	
evening set	-2785 Dec 27 j 08:29	29°♂28'09		retrograde	-2778 May 26 j 14:21	28°♂10'42	
	-2784 Jan 05 j 17:55	0°♂		opposition	-2778 Aug 12 j 13:35	26°♂11'08	-0°47'44
				min. Earth dist.	-2778 Aug 11 j 17:05	26°♂13'12	19.07211 AU
conjunction	-2784 Jan 12 j 04:23	0°♂22'05	-0°30'38	direct	-2778 Oct 26 j 13:02	24°♂14'52	
minimum elong	-2784 Jan 12 j 04:22	0°♂22'05	0°30'43	evening set	-2777 Jan 23 j 18:52	27°♂12'17	
max. Earth dist.	-2784 Jan 13 j 09:21	0°♂26'14	21.09395 AU				
morning rise	-2784 Jan 28 j 03:59	1°♂16'33		conjunction	-2777 Feb 08 j 21:09	28°♂06'49	-0°43'50
retrograde	-2784 May 01 j 14:45	4°♂23'20		minimum elong	-2777 Feb 08 j 21:09	28°♂06'49	0°43'54
opposition	-2784 Jul 18 j 21:20	2°♂24'15	-0°35'13	max. Earth dist.	-2777 Feb 09 j 18:50	28°♂09'54	21.06141 AU

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Attention, astronomical year style is used: The year -2777 in astronomical counting style is the year 2778 BCE in historical counting style.

morning rise	-2777 Feb 25 j 03:43	29°  01'56	retrograde	-2771 Jun 24 j 10:15	26°  15'48	
	-2777 Mar 15 j 08:08	0° 	opposition	-2771 Sep 09 j 09:49	24°  15'33	-0°52'03
retrograde	-2777 May 30 j 23:17	2°  09'11	min. Earth dist.	-2771 Sep 08 j 22:52	24°  16'41	18.84411 AU
opposition	-2777 Aug 16 j 19:44	0°  09'28	direct	-2771 Nov 22 j 22:55	22°  17'58	
min. Earth dist.	-2777 Aug 16 j 00:10	0°  11'27	evening set	-2770 Feb 21 j 01:45	25°  18'53	
	-2777 Aug 20 j 17:15	30°  R 				
direct	-2777 Oct 30 j 17:07	28°  13'02	conjunction	-2770 Mar 09 j 11:28	26°  14'51	-0°46'54
	-2776 Jan 05 j 13:23	0° 	minimum elong	-2770 Mar 09 j 11:28	26°  14'51	0°46'57
evening set	-2776 Jan 28 j 00:54	1°  10'42	max. Earth dist.	-2770 Mar 09 j 23:24	26°  16'34	20.82044 AU
			morning rise	-2770 Mar 26 j 00:35	27°  11'20	
conjunction	-2776 Feb 13 j 04:18	2°  05'24		-2770 May 30 j 15:56	0° 	
minimum elong	-2776 Feb 13 j 04:18	2°  05'24	retrograde	-2770 Jun 28 j 21:06	0°  20'54	
max. Earth dist.	-2776 Feb 14 j 01:49	2°  08'27		-2770 Jul 28 j 07:34	30°  R 	
morning rise	-2776 Feb 29 j 11:45	3°  00'40	opposition	-2770 Sep 13 j 17:02	28°  20'34	-0°51'39
retrograde	-2776 Jun 03 j 07:22	6°  08'07	min. Earth dist.	-2770 Sep 13 j 07:44	28°  21'32	18.79599 AU
min. Earth dist.	-2776 Aug 19 j 07:22	4°  10'10	direct	-2770 Nov 27 j 04:58	26°  22'44	
opposition	-2776 Aug 20 j 01:45	4°  08'18	evening set	-2769 Feb 25 j 12:27	29°  24'26	
direct	-2776 Nov 02 j 21:56	2°  11'42		-2769 Mar 07 j 23:11	0° 	
evening set	-2775 Jan 31 j 07:29	5°  09'42				
			conjunction	-2769 Mar 13 j 23:03	0°  20'39	-0°46'25
conjunction	-2775 Feb 16 j 11:51	6°  04'34	minimum elong	-2769 Mar 13 j 23:03	0°  20'39	0°46'27
minimum elong	-2775 Feb 16 j 11:51	6°  04'34	max. Earth dist.	-2769 Mar 14 j 07:43	0°  21'54	20.77021 AU
max. Earth dist.	-2775 Feb 17 j 07:11	6°  07'19	morning rise	-2769 Mar 30 j 13:12	1°  17'22	
morning rise	-2775 Mar 04 j 20:27	7°  00'00	retrograde	-2769 Jul 03 j 09:23	4°  17'25	
retrograde	-2775 Jun 07 j 17:00	10°  07'43	opposition	-2769 Sep 18 j 00:41	2°  26'56	-0°50'58
opposition	-2775 Aug 24 j 07:53	8°  07'47	min. Earth dist.	-2769 Sep 17 j 17:36	2°  27'40	18.74355 AU
min. Earth dist.	-2775 Aug 23 j 14:42	8°  09'32	direct	-2769 Dec 01 j 12:15	0°  28'46	
direct	-2775 Nov 07 j 01:47	6°  10'59	evening set	-2768 Feb 29 j 23:59	3°  31'19	
evening set	-2774 Feb 04 j 14:32	9°  09'26				
			conjunction	-2768 Mar 17 j 11:45	4°  27'49	-0°45'40
conjunction	-2774 Feb 20 j 20:02	10°  04'29	minimum elong	-2768 Mar 17 j 11:45	4°  27'49	0°45'43
minimum elong	-2774 Feb 20 j 20:02	10°  04'29	max. Earth dist.	-2768 Mar 17 j 19:13	4°  28'53	20.71558 AU
max. Earth dist.	-2774 Feb 21 j 14:59	10°  07'11	morning rise	-2768 Apr 03 j 02:35	5°  24'47	
morning rise	-2774 Mar 09 j 05:26	11°  00'06	retrograde	-2768 Jul 06 j 21:06	8°  35'16	
retrograde	-2774 Jun 12 j 01:55	14°  08'06	opposition	-2768 Sep 21 j 08:30	6°  34'38	-0°50'02
opposition	-2774 Aug 28 j 14:01	12°  08'05	min. Earth dist.	-2768 Sep 21 j 03:07	6°  35'12	18.68676 AU
min. Earth dist.	-2774 Aug 27 j 22:05	12°  09'43	direct	-2768 Dec 04 j 19:50	4°  36'08	
direct	-2774 Nov 11 j 06:59	10°  11'08	evening set	-2767 Mar 05 j 12:27	7°  39'33	
evening set	-2773 Feb 08 j 22:15	13°  10'04				
			conjunction	-2767 Mar 22 j 01:05	8°  36'19	-0°44'41
conjunction	-2773 Feb 25 j 04:41	14°  05'20	minimum elong	-2767 Mar 22 j 01:05	8°  36'19	0°44'43
minimum elong	-2773 Feb 25 j 04:41	14°  05'20	max. Earth dist.	-2767 Mar 22 j 05:04	8°  36'54	20.65698 AU
max. Earth dist.	-2773 Feb 25 j 21:11	14°  07'41	morning rise	-2767 Apr 07 j 16:53	9°  33'33	
morning rise	-2773 Mar 13 j 15:13	15°  01'09	retrograde	-2767 Jul 11 j 09:38	12°  44'30	
	-2773 Mar 13 j 06:59	15° 	opposition	-2767 Sep 25 j 16:49	10°  43'41	-0°48'49
retrograde	-2773 Jun 16 j 12:37	18°  09'30	min. Earth dist.	-2767 Sep 25 j 13:48	10°  44'00	18.62635 AU
opposition	-2773 Sep 01 j 20:26	16°  09'24	direct	-2767 Dec 09 j 03:49	8°  44'47	
min. Earth dist.	-2773 Sep 01 j 05:59	16°  10'53	evening set	-2766 Mar 10 j 01:27	11°  49'09	
	-2773 Oct 02 j 00:39	15°  R 				
direct	-2773 Nov 15 j 11:34	14°  12'15	conjunction	-2766 Mar 26 j 15:10	12°  46'13	-0°43'28
	-2773 Dec 28 j 21:35	15° 	minimum elong	-2766 Mar 26 j 15:10	12°  46'13	0°43'30
evening set	-2772 Feb 13 j 06:30	17°  11'46	max. Earth dist.	-2766 Mar 26 j 18:06	12°  46'38	20.59493 AU
			morning rise	-2766 Apr 12 j 07:29	13°  43'41	
conjunction	-2772 Feb 29 j 14:08	18°  07'15	retrograde	-2766 Jul 15 j 22:37	16°  55'08	
minimum elong	-2772 Feb 29 j 14:08	18°  07'15	opposition	-2766 Sep 30 j 01:22	14°  54'08	-0°47'21
max. Earth dist.	-2772 Mar 01 j 06:01	18°  09'31	min. Earth dist.	-2766 Sep 29 j 23:48	14°  54'17	18.56283 AU
morning rise	-2772 Mar 17 j 01:29	19°  03'17	direct	-2766 Dec 13 j 13:07	12°  54'50	
retrograde	-2772 Jun 19 j 22:37	22°  12'00	evening set	-2765 Mar 14 j 15:26	16°  00'10	
opposition	-2772 Sep 05 j 03:02	20°  11'51				
min. Earth dist.	-2772 Sep 04 j 14:05	20°  13'11	conjunction	-2765 Mar 31 j 05:54	16°  57'32	-0°42'00
direct	-2772 Nov 18 j 16:59	18°  14'30	minimum elong	-2765 Mar 31 j 05:54	16°  57'32	0°42'01
evening set	-2771 Feb 16 j 15:47	21°  14'41	max. Earth dist.	-2765 Mar 31 j 05:32	16°  57'29	20.53033 AU
			morning rise	-2765 Apr 16 j 23:04	17°  55'17	
conjunction	-2771 Mar 05 j 00:20	22°  10'24	retrograde	-2765 Jul 20 j 11:17	21°  07'14	
minimum elong	-2771 Mar 05 j 00:21	22°  10'24	opposition	-2765 Oct 04 j 10:24	19°  06'02	-0°45'37
max. Earth dist.	-2771 Mar 05 j 13:18	22°  12'15	min. Earth dist.	-2765 Oct 04 j 11:11	19°  05'57	18.49726 AU
morning rise	-2771 Mar 21 j 12:46	23°  06'39	direct	-2765 Dec 17 j 21:36	17°  06'18	

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Attention, astronomical year style is used: The year -2764 in astronomical counting style is the year 2765 BCE in historical counting style.

evening set	-2764 Mar 18 j 06:03	20° H 12'42		max. Earth dist.	-2758 Apr 30 j 23:51	17° Y 02'56	20.05759 AU
				morning rise	-2758 May 18 j 08:58	18° Y 04'33	
conjunction	-2764 Apr 03 j 21:35	21° H 10'22	-0°40'18	retrograde	-2758 Aug 20 j 00:45	21° Y 20'34	
minimum elong	-2764 Apr 03 j 21:35	21° H 10'22	0°40'19	opposition	-2758 Nov 02 j 17:36	19° Y 18'35	-0°26'43
max. Earth dist.	-2764 Apr 03 j 20:19	21° H 10'11	20.46388 AU	min. Earth dist.	-2758 Nov 03 j 05:19	19° Y 17'19	18.02417 AU
morning rise	-2764 Apr 20 j 15:14	22° H 08'23		direct	-2757 Jan 16 j 12:59	17° Y 16'12	
retrograde	-2764 Jul 24 j 01:53	25° H 20'52		evening set	-2757 Apr 19 j 15:25	20° Y 31'18	
opposition	-2764 Oct 07 j 19:50	23° H 19'28	-0°43'37				
min. Earth dist.	-2764 Oct 07 j 21:50	23° H 19'15	18.43005 AU	conjunction	-2757 May 06 j 11:04	21° Y 31'08	-0°22'29
direct	-2764 Dec 21 j 08:34	21° H 19'20		minimum elong	-2757 May 06 j 11:04	21° Y 31'08	0°22'28
evening set	-2763 Mar 22 j 21:48	24° H 26'50		max. Earth dist.	-2757 May 05 j 18:44	21° Y 28'42	19.99101 AU
				morning rise	-2757 May 23 j 06:53	22° Y 31'01	
conjunction	-2763 Apr 08 j 13:58	25° H 24'48	-0°38'23	retrograde	-2757 Aug 24 j 18:15	25° Y 47'38	
minimum elong	-2763 Apr 08 j 13:58	25° H 24'48	0°38'23	opposition	-2757 Nov 07 j 07:50	23° Y 45'36	-0°23'10
max. Earth dist.	-2763 Apr 08 j 09:26	25° H 24'09	20.39620 AU	min. Earth dist.	-2757 Nov 07 j 22:17	23° Y 44'02	17.95783 AU
morning rise	-2763 Apr 25 j 08:17	26° H 23'06		direct	-2756 Jan 21 j 03:44	21° Y 42'51	
retrograde	-2763 Jul 28 j 14:56	29° H 36'07		evening set	-2756 Apr 23 j 13:52	24° Y 59'18	
opposition	-2763 Oct 12 j 05:49	27° H 34'34	-0°41'23				
min. Earth dist.	-2763 Oct 12 j 10:08	27° H 34'06	18.36207 AU	conjunction	-2756 May 10 j 09:55	25° Y 59'25	-0°19'12
direct	-2763 Dec 25 j 18:17	25° H 34'00		minimum elong	-2756 May 10 j 09:55	25° Y 59'25	0°19'11
evening set	-2762 Mar 27 j 14:14	28° H 42'40		max. Earth dist.	-2756 May 09 j 16:03	25° Y 56'44	19.92479 AU
				morning rise	-2756 May 27 j 05:38	26° Y 59'32	
conjunction	-2762 Apr 13 j 07:19	29° H 40'57	-0°36'15		-2756 Aug 03 j 13:51	0° B	
minimum elong	-2762 Apr 13 j 07:19	29° H 40'57	0°36'14	retrograde	-2756 Aug 28 j 14:53	0° B 16'44	
max. Earth dist.	-2762 Apr 13 j 01:58	29° H 40'10	20.32799 AU		-2756 Sep 22 j 19:15	30° R Y	
	-2762 Apr 18 j 17:14	0° Y		opposition	-2756 Nov 10 j 22:49	28° Y 14'38	-0°19'26
morning rise	-2762 Apr 30 j 01:56	0° Y 39'31		min. Earth dist.	-2756 Nov 11 j 14:06	28° Y 12'59	17.89170 AU
retrograde	-2762 Aug 02 j 06:44	3° Y 53'07		direct	-2755 Jan 24 j 21:37	26° Y 11'30	
opposition	-2762 Oct 16 j 16:23	1° Y 51'25	-0°38'54	evening set	-2755 Apr 28 j 13:20	29° Y 29'16	
min. Earth dist.	-2762 Oct 16 j 21:35	1° Y 50'51	18.29375 AU		-2755 May 07 j 04:19	0° B	
	-2762 Dec 11 j 05:14	30° R H					
direct	-2762 Dec 30 j 06:48	29° H 50'28		conjunction	-2755 May 15 j 09:28	0° B 29'39	-0°15'47
	-2761 Jan 18 j 05:42	0° Y		minimum elong	-2755 May 15 j 09:28	0° B 29'39	0°15'44
evening set	-2761 Apr 01 j 07:36	3° Y 00'20		max. Earth dist.	-2755 May 14 j 12:59	0° B 26'35	19.85877 AU
				morning rise	-2755 Jun 01 j 04:59	1° B 30'00	
conjunction	-2761 Apr 18 j 01:14	3° Y 58'56	-0°33'53	retrograde	-2755 Sep 02 j 09:22	4° B 47'45	
minimum elong	-2761 Apr 18 j 01:14	3° Y 58'56	0°33'53	opposition	-2755 Nov 15 j 14:44	2° B 45'34	-0°15'34
max. Earth dist.	-2761 Apr 17 j 16:50	3° Y 57'42	20.25976 AU	min. Earth dist.	-2755 Nov 16 j 08:39	2° B 43'37	17.82609 AU
morning rise	-2761 May 04 j 20:25	4° Y 57'46		direct	-2754 Jan 29 j 13:57	0° B 42'01	
retrograde	-2761 Aug 06 j 20:56	8° Y 11'58		evening set	-2754 May 03 j 13:30	4° B 01'06	
opposition	-2761 Oct 21 j 03:42	6° Y 10'08	-0°36'11	max. Earth dist.	-2754 May 19 j 11:39	4° B 58'24	19.79365 AU
min. Earth dist.	-2761 Oct 21 j 11:14	6° Y 09'20	18.22569 AU				
direct	-2760 Jan 03 j 18:05	4° Y 08'48		conjunction	-2754 May 20 j 09:45	5° B 01'45	-0°12'14
evening set	-2760 Apr 05 j 01:59	7° Y 19'56		minimum elong	-2754 May 20 j 09:45	5° B 01'45	0°12'12
				behind sun begin	-2754 May 20 j 05:19	5° B 01'05	
conjunction	-2760 Apr 21 j 20:25	8° Y 18'51	-0°31'20	behind sun end	-2754 May 20 j 14:11	5° B 02'24	
minimum elong	-2760 Apr 21 j 20:25	8° Y 18'52	0°31'18	morning rise	-2754 Jun 06 j 05:02	6° B 02'18	
max. Earth dist.	-2760 Apr 21 j 11:07	8° Y 17'29	20.19189 AU	retrograde	-2754 Sep 07 j 07:22	9° B 20'34	
morning rise	-2760 May 08 j 15:47	9° Y 17'58		opposition	-2754 Nov 20 j 07:13	7° B 18'16	-0°11'34
retrograde	-2760 Aug 10 j 14:05	12° Y 32'45		min. Earth dist.	-2754 Nov 21 j 01:41	7° B 16'16	17.76156 AU
opposition	-2760 Oct 24 j 15:28	10° Y 30'51	-0°33'15	direct	-2753 Feb 03 j 09:53	5° B 14'19	
min. Earth dist.	-2760 Oct 24 j 23:52	10° Y 29'58	18.15799 AU	evening set	-2753 May 08 j 14:24	8° B 34'39	
direct	-2759 Jan 07 j 08:14	8° Y 29'10		max. Earth dist.	-2753 May 24 j 10:43	9° B 31'55	19.72981 AU
evening set	-2759 Apr 09 j 21:34	11° Y 41'36					
				conjunction	-2753 May 25 j 10:39	9° B 35'33	-0°08'36
conjunction	-2759 Apr 26 j 16:23	12° Y 40'50	-0°28'34	minimum elong	-2753 May 25 j 10:39	9° B 35'33	0°08'32
minimum elong	-2759 Apr 26 j 16:24	12° Y 40'50	0°28'33	behind sun begin	-2753 May 25 j 04:45	9° B 34'41	
max. Earth dist.	-2759 Apr 26 j 04:04	12° Y 39'01	20.12447 AU	behind sun end	-2753 May 25 j 16:33	9° B 36'25	
morning rise	-2759 May 13 j 12:05	13° Y 40'12		morning rise	-2753 Jun 11 j 05:33	10° B 36'19	
retrograde	-2759 Aug 15 j 05:55	16° Y 55'36		retrograde	-2753 Sep 12 j 02:35	13° B 55'03	
opposition	-2759 Oct 29 j 04:13	14° Y 53'39	-0°30'05	opposition	-2753 Nov 25 j 00:38	11° B 52'40	-0°07'28
min. Earth dist.	-2759 Oct 29 j 15:07	14° Y 52'29	18.09088 AU	min. Earth dist.	-2753 Nov 25 j 21:30	11° B 50'23	17.69873 AU
direct	-2758 Jan 11 j 21:12	12° Y 51'37		direct	-2752 Feb 08 j 03:57	9° B 48'17	
evening set	-2758 Apr 14 j 17:51	16° Y 05'23		evening set	-2752 May 12 j 16:08	13° B 09'52	
				max. Earth dist.	-2752 May 28 j 10:37	14° B 07'05	19.66816 AU
conjunction	-2758 May 01 j 13:15	17° Y 04'55	-0°25'37				
minimum elong	-2758 May 01 j 13:15	17° Y 04'55	0°25'36	conjunction	-2752 May 29 j 12:14	14° B 10'59	-0°04'54

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Attention, astronomical year style is used: The year -2752 in astronomical counting style is the year 2753 BCE in historical counting style.

minimum elong	-2752 May 29 j 12:14	14° 8 10'59	0°04'50	minimum elong	-2747 Jun 23 j 02:26	7° II 29'47	0°14'07
behind sun begin	-2752 May 29 j 05:37	14° 8 10'00		behind sun begin	-2747 Jun 22 j 23:17	7° II 29'18	
behind sun end	-2752 May 29 j 18:51	14° 8 11'58		behind sun end	-2747 Jun 23 j 05:36	7° II 30'16	
	-2752 Jun 11 j 23:01	15° 8		morning rise	-2747 Jul 09 j 17:01	8° II 31'16	
morning rise	-2752 Jun 15 j 06:45	15° 8 11'55		retrograde	-2747 Oct 09 j 15:05	11° II 52'23	
retrograde	-2752 Sep 16 j 01:07	18° 8 31'07		opposition	-2747 Dec 22 j 00:02	9° II 49'44	0°17'38
opposition	-2752 Nov 28 j 18:33	16° 8 28'37	-0°03'17	min. Earth dist.	-2747 Dec 23 j 00:48	9° II 47'01	17.39927 AU
min. Earth dist.	-2752 Nov 29 j 15:43	16° 8 26'18	17.63839 AU	direct	-2746 Mar 07 j 19:32	7° II 43'32	
	-2751 Jan 05 j 11:24	15° 8 8		evening set	-2746 Jun 11 j 13:16	11° II 11'34	
direct	-2751 Feb 12 j 01:44	14° 8 23'51		max. Earth dist.	-2746 Jun 27 j 00:27	12° II 08'55	19.38238 AU
	-2751 Mar 21 j 05:47	15° 8					
evening set	-2751 May 17 j 18:28	17° 8 46'37		conjunction	-2746 Jun 28 j 06:11	12° II 13'33	0°17'40
max. Earth dist.	-2751 Jun 02 j 11:52	18° 8 43'54	19.60924 AU	minimum elong	-2746 Jun 28 j 06:11	12° II 13'33	0°17'44
				morning rise	-2746 Jul 14 j 19:56	13° II 15'05	
conjunction	-2751 Jun 03 j 14:22	18° 8 47'57	-0°01'05	retrograde	-2746 Oct 14 j 14:54	16° II 36'31	
minimum elong	-2751 Jun 03 j 14:22	18° 8 47'57	0°01'02	opposition	-2746 Dec 26 j 22:22	14° II 33'56	0°21'38
behind sun begin	-2751 Jun 03 j 07:35	18° 8 46'57		min. Earth dist.	-2746 Dec 27 j 22:57	14° II 31'15	17.36760 AU
behind sun end	-2751 Jun 03 j 21:09	18° 8 48'58		direct	-2745 Mar 12 j 21:09	12° II 27'37	
morning rise	-2751 Jun 20 j 08:11	19° 8 49'03		evening set	-2745 Jun 16 j 18:06	15° II 56'31	
asc. node	-2751 Sep 14 j 09:31	23° 8 07'30		max. Earth dist.	-2745 Jul 02 j 05:47	16° II 54'06	19.35343 AU
retrograde	-2751 Sep 20 j 21:13	23° 8 08'40					
opposition	-2751 Dec 03 j 13:29	21° 8 06'04	0°00'55	conjunction	-2745 Jul 03 j 10:22	16° II 58'34	0°21'12
min. Earth dist.	-2751 Dec 04 j 12:32	21° 8 03'33	17.58129 AU	minimum elong	-2745 Jul 03 j 10:22	16° II 58'34	0°21'17
direct	-2750 Feb 16 j 21:44	19° 8 00'55		morning rise	-2745 Jul 19 j 22:54	18° II 00'07	
evening set	-2750 May 22 j 21:11	22° 8 24'51		retrograde	-2745 Oct 19 j 14:46	21° II 21'49	
				opposition	-2745 Dec 31 j 21:34	19° II 19'21	0°25'31
conjunction	-2750 Jun 08 j 16:38	23° 8 26'22	0°02'48	min. Earth dist.	-2744 Jan 01 j 22:29	19° II 16'38	17.34130 AU
minimum elong	-2750 Jun 08 j 16:39	23° 8 26'22	0°02'53	direct	-2744 Mar 16 j 23:10	17° II 12'58	
behind sun begin	-2750 Jun 08 j 09:53	23° 8 25'21		evening set	-2744 Jun 20 j 23:26	20° II 42'38	
behind sun end	-2750 Jun 08 j 23:24	23° 8 27'22		max. Earth dist.	-2744 Jul 06 j 08:53	21° II 40'02	19.32976 AU
max. Earth dist.	-2750 Jun 07 j 12:42	23° 8 22'04	19.55408 AU				
morning rise	-2750 Jun 25 j 09:57	24° 8 27'35		conjunction	-2744 Jul 07 j 14:33	21° II 44'41	0°24'36
retrograde	-2750 Sep 25 j 20:16	27° 8 47'38		minimum elong	-2744 Jul 07 j 14:32	21° II 44'41	0°24'41
opposition	-2750 Dec 08 j 08:57	25° 8 44'57	0°05'09	morning rise	-2744 Jul 24 j 02:02	22° II 46'14	
min. Earth dist.	-2750 Dec 09 j 07:57	25° 8 42'26	17.52827 AU	retrograde	-2744 Oct 23 j 15:04	26° II 08'09	
direct	-2749 Feb 21 j 21:06	23° 8 39'27		opposition	-2743 Jan 04 j 21:24	24° II 05'49	0°29'14
evening set	-2749 May 28 j 00:30	27° 8 04'29		min. Earth dist.	-2743 Jan 05 j 22:22	24° II 03'05	17.32030 AU
				direct	-2743 Mar 22 j 01:49	21° II 59'22	
conjunction	-2749 Jun 13 j 19:37	28° 8 06'10	0°06'35	evening set	-2743 Jun 26 j 04:44	25° II 29'41	
minimum elong	-2749 Jun 13 j 19:37	28° 8 06'10	0°06'39				
behind sun begin	-2749 Jun 13 j 13:18	28° 8 05'13		conjunction	-2743 Jul 12 j 18:56	26° II 31'44	0°27'51
behind sun end	-2749 Jun 14 j 01:57	28° 8 07'07		minimum elong	-2743 Jul 12 j 18:56	26° II 31'44	0°27'56
max. Earth dist.	-2749 Jun 12 j 15:43	28° 8 01'52	19.50319 AU	max. Earth dist.	-2743 Jul 11 j 14:33	26° II 27'16	19.31121 AU
morning rise	-2749 Jun 30 j 12:01	29° 8 07'30		morning rise	-2743 Jul 29 j 05:07	27° II 33'14	
	-2749 Jul 15 j 11:58	0° II			-2743 Sep 13 j 19:54	0° III	
retrograde	-2749 Sep 30 j 17:12	2° II 27'54		retrograde	-2743 Oct 28 j 16:17	0° III 55'19	
opposition	-2749 Dec 13 j 05:11	0° II 25'12	0°09'22		-2743 Dec 13 j 21:26	30° R II	
min. Earth dist.	-2749 Dec 14 j 05:32	0° II 22'32	17.47987 AU	opposition	-2742 Jan 09 j 21:57	28° II 53'06	0°32'45
	-2749 Dec 22 j 20:38	30° R 8		min. Earth dist.	-2742 Jan 10 j 22:37	28° II 50'25	17.30418 AU
direct	-2748 Feb 26 j 18:53	28° 8 19'24		direct	-2742 Mar 27 j 04:57	26° II 46'37	
	-2748 Apr 30 j 10:30	0° II			-2742 Jun 26 j 15:24	0° III	
evening set	-2748 Jun 01 j 04:28	1° II 45'31		evening set	-2742 Jul 01 j 10:02	0° III 17'26	
conjunction	-2748 Jun 17 j 22:52	2° II 47'19	0°10'20	conjunction	-2742 Jul 17 j 23:01	1° III 19'27	0°30'55
minimum elong	-2748 Jun 17 j 22:52	2° II 47'19	0°10'24	minimum elong	-2742 Jul 17 j 23:01	1° III 19'27	0°31'00
behind sun begin	-2748 Jun 17 j 17:35	2° II 46'31		max. Earth dist.	-2742 Jul 16 j 18:02	1° III 14'53	19.29750 AU
behind sun end	-2748 Jun 18 j 04:08	2° II 48'06		morning rise	-2742 Aug 03 j 08:04	2° III 20'54	
max. Earth dist.	-2748 Jun 16 j 17:32	2° II 42'46	19.45738 AU	retrograde	-2742 Nov 02 j 16:58	5° III 43'05	
morning rise	-2748 Jul 04 j 14:34	3° II 48'44		opposition	-2741 Jan 14 j 22:59	3° III 40'58	0°36'04
retrograde	-2748 Oct 04 j 16:50	7° II 09'31		min. Earth dist.	-2741 Jan 15 j 23:51	3° III 38'15	17.29296 AU
opposition	-2748 Dec 17 j 02:12	5° II 06'48	0°13'32	direct	-2741 Apr 01 j 08:00	1° III 34'26	
min. Earth dist.	-2748 Dec 18 j 02:17	5° II 04'10	17.43680 AU	evening set	-2741 Jul 06 j 15:16	5° III 05'39	
direct	-2747 Mar 02 j 19:33	3° II 00'46		max. Earth dist.	-2741 Jul 21 j 23:21	6° III 03'12	19.28862 AU
evening set	-2747 Jun 06 j 08:35	6° II 27'52					
max. Earth dist.	-2747 Jun 21 j 21:56	7° II 25'22	19.41698 AU	conjunction	-2741 Jul 23 j 03:11	6° III 07'35	0°33'46
				minimum elong	-2741 Jul 23 j 03:11	6° III 07'35	0°33'50
conjunction	-2747 Jun 23 j 02:27	7° II 29'47	0°14'02	morning rise	-2741 Aug 08 j 10:55	7° III 08'57	

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Attention, astronomical year style is used: The year -2741 in astronomical counting style is the year 2742 BCE in historical counting style.

retrograde	-2741 Nov 07 j 18:32	10° $\mathring{\text{E}}$ 31'09	0°39'07	conjunction	-2734 Aug 25 j 18:13	9° $\mathring{\text{Q}}$ 35'39	0°46'11
opposition	-2740 Jan 20 j 00:21	8° $\mathring{\text{E}}$ 29'08	0°39'07	minimum elong	-2734 Aug 25 j 18:13	9° $\mathring{\text{Q}}$ 35'39	0°46'14
min. Earth dist.	-2740 Jan 21 j 00:18	8° $\mathring{\text{E}}$ 26'31	17.28637 AU	max. Earth dist.	-2734 Aug 25 j 00:29	9° $\mathring{\text{Q}}$ 32'51	19.37423 AU
direct	-2740 Apr 05 j 11:48	6° $\mathring{\text{E}}$ 22'36		morning rise	-2734 Sep 10 j 17:09	10° $\mathring{\text{Q}}$ 35'46	
evening set	-2740 Jul 10 j 20:24	9° $\mathring{\text{E}}$ 54'03		retrograde	-2734 Dec 10 j 15:16	13° $\mathring{\text{Q}}$ 56'37	
max. Earth dist.	-2740 Jul 26 j 03:19	10° $\mathring{\text{E}}$ 51'31	19.28445 AU	opposition	-2733 Feb 22 j 16:14	11° $\mathring{\text{Q}}$ 55'03	0°51'50
				min. Earth dist.	-2733 Feb 23 j 08:08	11° $\mathring{\text{Q}}$ 53'21	17.39177 AU
conjunction	-2740 Jul 27 j 07:01	10° $\mathring{\text{E}}$ 55'54	0°36'23	direct	-2733 May 10 j 19:35	9° $\mathring{\text{Q}}$ 49'11	
minimum elong	-2740 Jul 27 j 07:01	10° $\mathring{\text{E}}$ 55'54	0°36'28	evening set	-2733 Aug 14 j 15:57	13° $\mathring{\text{Q}}$ 18'40	
morning rise	-2740 Aug 12 j 13:28	11° $\mathring{\text{E}}$ 57'08					
retrograde	-2740 Nov 11 j 18:59	15° $\mathring{\text{E}}$ 19'19		conjunction	-2733 Aug 30 j 17:36	14° $\mathring{\text{Q}}$ 19'06	0°46'44
opposition	-2739 Jan 24 j 02:17	13° $\mathring{\text{E}}$ 17'21	0°41'54	minimum elong	-2733 Aug 30 j 17:36	14° $\mathring{\text{Q}}$ 19'06	0°46'48
min. Earth dist.	-2739 Jan 25 j 02:21	13° $\mathring{\text{E}}$ 14'45	17.28476 AU	max. Earth dist.	-2733 Aug 30 j 01:00	14° $\mathring{\text{Q}}$ 16'28	19.41019 AU
direct	-2739 Apr 10 j 15:30	11° $\mathring{\text{E}}$ 10'49			-2733 Sep 10 j 13:24	15° $\mathring{\text{Q}}$	
evening set	-2739 Jul 16 j 00:54	14° $\mathring{\text{E}}$ 42'22		morning rise	-2733 Sep 15 j 15:34	15° $\mathring{\text{Q}}$ 18'58	
max. Earth dist.	-2739 Jul 31 j 07:52	15° $\mathring{\text{E}}$ 39'54	19.28539 AU	retrograde	-2733 Dec 15 j 14:47	18° $\mathring{\text{Q}}$ 39'28	
				opposition	-2732 Feb 27 j 18:21	16° $\mathring{\text{Q}}$ 38'03	0°52'17
conjunction	-2739 Aug 01 j 10:18	15° $\mathring{\text{E}}$ 44'05	0°38'44	min. Earth dist.	-2732 Feb 28 j 07:26	16° $\mathring{\text{Q}}$ 36'39	17.43051 AU
minimum elong	-2739 Aug 01 j 10:18	15° $\mathring{\text{E}}$ 44'05	0°38'48		-2732 Apr 11 j 18:26	15° $\mathring{\text{R}}$ $\mathring{\text{Q}}$	
morning rise	-2739 Aug 17 j 15:30	16° $\mathring{\text{E}}$ 45'11		direct	-2732 May 14 j 23:46	14° $\mathring{\text{Q}}$ 32'29	
retrograde	-2739 Nov 16 j 19:57	20° $\mathring{\text{E}}$ 07'17			-2732 Jun 16 j 11:35	15° $\mathring{\text{Q}}$	
opposition	-2738 Jan 29 j 04:21	18° $\mathring{\text{E}}$ 05'22	0°44'23	evening set	-2732 Aug 18 j 15:48	18° $\mathring{\text{Q}}$ 01'16	
min. Earth dist.	-2738 Jan 30 j 02:45	18° $\mathring{\text{E}}$ 02'56	17.28819 AU				
direct	-2738 Apr 15 j 20:33	15° $\mathring{\text{E}}$ 58'51		conjunction	-2732 Sep 03 j 16:23	19° $\mathring{\text{Q}}$ 01'25	0°47'00
evening set	-2738 Jul 21 j 05:04	19° $\mathring{\text{E}}$ 30'22		minimum elong	-2732 Sep 03 j 16:23	19° $\mathring{\text{Q}}$ 01'25	0°47'03
max. Earth dist.	-2738 Aug 05 j 11:57	20° $\mathring{\text{E}}$ 27'56	19.29148 AU	max. Earth dist.	-2732 Sep 03 j 03:01	18° $\mathring{\text{Q}}$ 59'19	19.45166 AU
				morning rise	-2732 Sep 19 j 13:07	20° $\mathring{\text{Q}}$ 01'03	
conjunction	-2738 Aug 06 j 13:13	20° $\mathring{\text{E}}$ 31'56	0°40'49	retrograde	-2732 Dec 19 j 12:25	23° $\mathring{\text{Q}}$ 21'10	
minimum elong	-2738 Aug 06 j 13:13	20° $\mathring{\text{E}}$ 31'56	0°40'54	opposition	-2731 Mar 03 j 20:34	21° $\mathring{\text{Q}}$ 19'56	0°52'22
morning rise	-2738 Aug 22 j 17:05	21° $\mathring{\text{E}}$ 32'52		min. Earth dist.	-2731 Mar 04 j 08:30	21° $\mathring{\text{Q}}$ 18'40	17.47442 AU
retrograde	-2738 Nov 21 j 19:06	24° $\mathring{\text{E}}$ 54'48		direct	-2731 May 20 j 01:47	19° $\mathring{\text{Q}}$ 14'43	
opposition	-2737 Feb 03 j 06:33	22° $\mathring{\text{E}}$ 52'56	0°46'33	evening set	-2731 Aug 23 j 14:50	22° $\mathring{\text{Q}}$ 42'41	
min. Earth dist.	-2737 Feb 04 j 04:55	22° $\mathring{\text{E}}$ 50'31	17.29708 AU				
direct	-2737 Apr 21 j 00:42	20° $\mathring{\text{E}}$ 46'27		conjunction	-2731 Sep 08 j 14:05	23° $\mathring{\text{Q}}$ 42'34	0°46'56
evening set	-2737 Jul 26 j 08:41	24° $\mathring{\text{E}}$ 17'48		minimum elong	-2731 Sep 08 j 14:05	23° $\mathring{\text{Q}}$ 42'34	0°46'58
				max. Earth dist.	-2731 Sep 08 j 01:49	23° $\mathring{\text{Q}}$ 40'38	19.49800 AU
conjunction	-2737 Aug 11 j 15:31	25° $\mathring{\text{E}}$ 19'10	0°42'37	morning rise	-2731 Sep 24 j 10:00	24° $\mathring{\text{Q}}$ 41'56	
minimum elong	-2737 Aug 11 j 15:31	25° $\mathring{\text{E}}$ 19'10	0°42'42	retrograde	-2731 Dec 24 j 11:23	28° $\mathring{\text{Q}}$ 01'40	
max. Earth dist.	-2737 Aug 10 j 15:25	25° $\mathring{\text{E}}$ 15'21	19.30322 AU	opposition	-2730 Mar 08 j 22:25	26° $\mathring{\text{Q}}$ 00'36	0°52'07
morning rise	-2737 Aug 27 j 18:14	26° $\mathring{\text{E}}$ 19'56		min. Earth dist.	-2730 Mar 09 j 07:48	25° $\mathring{\text{Q}}$ 59'37	17.52288 AU
retrograde	-2737 Nov 26 j 19:21	29° $\mathring{\text{E}}$ 41'39		direct	-2730 May 25 j 04:39	23° $\mathring{\text{Q}}$ 55'45	
opposition	-2736 Feb 08 j 08:53	27° $\mathring{\text{E}}$ 39'49	0°48'23	evening set	-2730 Aug 28 j 13:01	27° $\mathring{\text{Q}}$ 22'51	
min. Earth dist.	-2736 Feb 09 j 05:00	27° $\mathring{\text{E}}$ 37'39	17.31158 AU				
direct	-2736 Apr 25 j 06:41	25° $\mathring{\text{E}}$ 33'25		conjunction	-2730 Sep 13 j 11:18	28° $\mathring{\text{Q}}$ 22'26	0°46'34
evening set	-2736 Jul 30 j 11:33	29° $\mathring{\text{E}}$ 04'27		minimum elong	-2730 Sep 13 j 11:18	28° $\mathring{\text{Q}}$ 22'26	0°46'36
	-2736 Aug 14 j 05:35	0° $\mathring{\text{Q}}$		max. Earth dist.	-2730 Sep 13 j 02:13	28° $\mathring{\text{Q}}$ 21'01	19.54838 AU
				morning rise	-2730 Sep 29 j 06:08	29° $\mathring{\text{Q}}$ 21'32	
conjunction	-2736 Aug 15 j 17:08	0° $\mathring{\text{Q}}$ 05'37	0°44'07		-2730 Oct 09 j 22:32	0° $\mathring{\text{R}}$	
minimum elong	-2736 Aug 15 j 17:08	0° $\mathring{\text{Q}}$ 05'37	0°44'10	retrograde	-2730 Dec 29 j 08:31	2° $\mathring{\text{R}}$ 40'49	
max. Earth dist.	-2736 Aug 14 j 19:16	0° $\mathring{\text{Q}}$ 02'10	19.32065 AU	opposition	-2729 Mar 13 j 23:56	0° $\mathring{\text{R}}$ 39'58	0°51'31
morning rise	-2736 Aug 31 j 18:27	1° $\mathring{\text{Q}}$ 06'11		min. Earth dist.	-2729 Mar 14 j 08:02	0° $\mathring{\text{R}}$ 39'06	17.57491 AU
retrograde	-2736 Nov 30 j 17:39	4° $\mathring{\text{Q}}$ 27'39			-2729 Mar 30 j 01:32	30° $\mathring{\text{R}}$ $\mathring{\text{Q}}$	
opposition	-2735 Feb 12 j 11:29	2° $\mathring{\text{Q}}$ 25'53	0°49'53	direct	-2729 May 30 j 06:00	28° $\mathring{\text{Q}}$ 35'30	
min. Earth dist.	-2735 Feb 13 j 07:03	2° $\mathring{\text{Q}}$ 23'46	17.33209 AU		-2729 Jul 27 j 09:46	0° $\mathring{\text{R}}$	
direct	-2735 Apr 30 j 11:06	0° $\mathring{\text{Q}}$ 19'36		evening set	-2729 Sep 02 j 10:33	2° $\mathring{\text{R}}$ 01'37	
evening set	-2735 Aug 04 j 13:50	3° $\mathring{\text{Q}}$ 50'13					
				conjunction	-2729 Sep 18 j 07:34	3° $\mathring{\text{R}}$ 00'55	0°45'53
conjunction	-2735 Aug 20 j 18:00	4° $\mathring{\text{Q}}$ 51'09	0°45'18	minimum elong	-2729 Sep 18 j 07:34	3° $\mathring{\text{R}}$ 00'55	0°45'54
minimum elong	-2735 Aug 20 j 18:00	4° $\mathring{\text{Q}}$ 51'09	0°45'22	max. Earth dist.	-2729 Sep 17 j 23:24	2° $\mathring{\text{R}}$ 59'38	19.60205 AU
max. Earth dist.	-2735 Aug 19 j 21:23	4° $\mathring{\text{Q}}$ 47'53	19.34434 AU	morning rise	-2729 Oct 04 j 01:40	3° $\mathring{\text{R}}$ 59'45	
morning rise	-2735 Sep 05 j 18:15	5° $\mathring{\text{Q}}$ 51'29		retrograde	-2728 Jan 03 j 06:16	7° $\mathring{\text{R}}$ 18'35	
retrograde	-2735 Dec 05 j 17:19	9° $\mathring{\text{Q}}$ 12'40		opposition	-2728 Mar 18 j 01:16	5° $\mathring{\text{R}}$ 17'52	0°50'35
opposition	-2734 Feb 17 j 13:48	7° $\mathring{\text{Q}}$ 10'58	0°51'02	min. Earth dist.	-2728 Mar 18 j 07:09	5° $\mathring{\text{R}}$ 17'15	17.63004 AU
min. Earth dist.	-2734 Feb 18 j 06:35	7° $\mathring{\text{Q}}$ 09'10	17.35888 AU	direct	-2728 Jun 03 j 07:33	3° $\mathring{\text{R}}$ 13'48	
direct	-2734 May 05 j 16:27	5° $\mathring{\text{Q}}$ 04'52		evening set	-2728 Sep 06 j 06:53	6° $\mathring{\text{R}}$ 38'52	
evening set	-2734 Aug 09 j 15:09	8° $\mathring{\text{Q}}$ 34'57					
				conjunction	-2728 Sep 22 j 03:02	7° $\mathring{\text{R}}$ 37'51	0°44'55

Planetary Phenomena of Uranus from -2900 through -2398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 15

Attention, astronomical year style is used: The year -2728 in astronomical counting style is the year 2729 BCE in historical counting style.

minimum elong	-2728 Sep 22 j 03:02	7° <u>10</u> 37'51	0°44'56	opposition	-2721 Apr 20 j 18:34	6° <u>05</u> 52'17	0°35'57
max. Earth dist.	-2728 Sep 21 j 21:57	7° <u>10</u> 37'04	19.65843 AU	min. Earth dist.	-2721 Apr 20 j 10:04	6° <u>05</u> 53'10	18.06487 AU
morning rise	-2728 Oct 07 j 20:12	8° <u>10</u> 36'25		direct	-2721 Jul 07 j 01:37	4° <u>05</u> 50'48	
retrograde	-2727 Jan 07 j 02:53	11° <u>10</u> 54'45		evening set	-2721 Oct 08 j 02:14	8° <u>05</u> 07'01	
opposition	-2727 Mar 23 j 02:15	9° <u>10</u> 54'12	0°49'20				
min. Earth dist.	-2727 Mar 23 j 06:21	9° <u>10</u> 53'46	17.68743 AU	conjunction	-2721 Oct 23 j 17:13	9° <u>05</u> 03'52	0°31'03
direct	-2727 Jun 08 j 08:46	7° <u>10</u> 50'32		minimum elong	-2721 Oct 23 j 17:13	9° <u>05</u> 03'52	0°31'02
evening set	-2727 Sep 11 j 02:32	11° <u>10</u> 14'28		max. Earth dist.	-2721 Oct 24 j 02:25	9° <u>05</u> 05'16	20.09881 AU
				morning rise	-2721 Nov 08 j 07:19	10° <u>05</u> 00'35	
conjunction	-2727 Sep 26 j 21:35	12° <u>10</u> 13'09	0°43'39	retrograde	-2720 Feb 08 j 04:20	13° <u>05</u> 14'52	
minimum elong	-2727 Sep 26 j 21:35	12° <u>10</u> 13'09	0°43'41	opposition	-2720 Apr 24 j 14:56	11° <u>05</u> 14'49	0°32'57
max. Earth dist.	-2727 Sep 26 j 17:31	12° <u>10</u> 12'31	19.71687 AU	min. Earth dist.	-2720 Apr 24 j 05:03	11° <u>05</u> 15'50	18.13299 AU
morning rise	-2727 Oct 12 j 14:11	13° <u>10</u> 11'26		direct	-2720 Jul 10 j 19:34	9° <u>05</u> 13'44	
retrograde	-2726 Jan 11 j 22:49	16° <u>10</u> 29'16		evening set	-2720 Oct 11 j 14:39	12° <u>05</u> 28'38	
opposition	-2726 Mar 28 j 02:32	14° <u>10</u> 28'49	0°47'46				
min. Earth dist.	-2726 Mar 28 j 04:50	14° <u>10</u> 28'34	17.74683 AU	conjunction	-2720 Oct 27 j 05:16	13° <u>05</u> 25'12	0°28'17
direct	-2726 Jun 13 j 08:46	12° <u>10</u> 25'31		minimum elong	-2720 Oct 27 j 05:16	13° <u>05</u> 25'12	0°28'16
evening set	-2726 Sep 15 j 21:00	15° <u>10</u> 48'17		max. Earth dist.	-2720 Oct 27 j 16:51	13° <u>05</u> 26'57	20.16760 AU
				morning rise	-2720 Nov 11 j 19:13	14° <u>05</u> 21'41	
conjunction	-2726 Oct 01 j 15:21	16° <u>10</u> 46'39	0°42'07	retrograde	-2719 Feb 11 j 20:10	17° <u>05</u> 35'23	
minimum elong	-2726 Oct 01 j 15:21	16° <u>10</u> 46'39	0°42'08	opposition	-2719 Apr 29 j 10:21	15° <u>05</u> 35'27	0°29'47
max. Earth dist.	-2726 Oct 01 j 14:05	16° <u>10</u> 46'27	19.77706 AU	min. Earth dist.	-2719 Apr 28 j 21:23	15° <u>05</u> 36'46	18.20218 AU
morning rise	-2726 Oct 17 j 07:13	17° <u>10</u> 44'40		direct	-2719 Jul 15 j 14:19	13° <u>05</u> 34'46	
retrograde	-2725 Jan 16 j 18:31	21° <u>10</u> 01'56		evening set	-2719 Oct 16 j 02:22	16° <u>05</u> 48'22	
opposition	-2725 Apr 02 j 02:20	19° <u>10</u> 01'35	0°45'54				
min. Earth dist.	-2725 Apr 02 j 02:30	19° <u>10</u> 01'34	17.80758 AU	conjunction	-2719 Oct 31 j 16:37	17° <u>05</u> 44'40	0°25'23
direct	-2725 Jun 18 j 09:34	16° <u>10</u> 58'40		minimum elong	-2719 Oct 31 j 16:37	17° <u>05</u> 44'40	0°25'21
evening set	-2725 Sep 20 j 14:35	20° <u>10</u> 20'11		max. Earth dist.	-2719 Nov 01 j 06:13	17° <u>05</u> 46'43	20.23712 AU
				morning rise	-2719 Nov 16 j 06:34	18° <u>05</u> 40'55	
conjunction	-2725 Oct 06 j 07:59	21° <u>10</u> 18'14	0°40'20	retrograde	-2718 Feb 16 j 09:25	21° <u>05</u> 54'03	
minimum elong	-2725 Oct 06 j 07:59	21° <u>10</u> 18'14	0°40'22	opposition	-2718 May 04 j 05:01	19° <u>05</u> 54'14	0°26'28
max. Earth dist.	-2725 Oct 06 j 08:02	21° <u>10</u> 18'14	19.83852 AU	min. Earth dist.	-2718 May 03 j 15:08	19° <u>05</u> 55'39	18.27198 AU
morning rise	-2725 Oct 21 j 23:24	22° <u>10</u> 15'59		direct	-2718 Jul 20 j 06:15	17° <u>05</u> 54'00	
retrograde	-2724 Jan 21 j 11:57	25° <u>10</u> 32'41		evening set	-2718 Oct 20 j 13:14	21° <u>05</u> 06'19	
opposition	-2724 Apr 06 j 01:33	23° <u>10</u> 32'23	0°43'46				
min. Earth dist.	-2724 Apr 06 j 00:07	23° <u>10</u> 32'32	17.86976 AU	conjunction	-2718 Nov 05 j 03:17	22° <u>05</u> 02'21	0°22'21
direct	-2724 Jun 22 j 08:16	21° <u>10</u> 29'50		minimum elong	-2718 Nov 05 j 03:17	22° <u>05</u> 02'21	0°22'20
evening set	-2724 Sep 24 j 06:59	24° <u>10</u> 50'03		max. Earth dist.	-2718 Nov 05 j 18:42	22° <u>05</u> 04'41	20.30695 AU
				morning rise	-2718 Nov 20 j 17:15	22° <u>05</u> 58'24	
conjunction	-2724 Oct 09 j 23:47	25° <u>10</u> 47'47	0°38'19	retrograde	-2717 Feb 21 j 00:30	26° <u>05</u> 10'58	
minimum elong	-2724 Oct 09 j 23:47	25° <u>10</u> 47'47	0°38'20	opposition	-2717 May 08 j 22:57	24° <u>05</u> 11'18	0°23'02
max. Earth dist.	-2724 Oct 10 j 02:37	25° <u>10</u> 48'14	19.90143 AU	min. Earth dist.	-2717 May 08 j 06:14	24° <u>05</u> 13'00	18.34156 AU
morning rise	-2724 Oct 25 j 14:41	26° <u>10</u> 45'16		direct	-2717 Jul 24 j 22:58	22° <u>05</u> 11'29	
	-2723 Jan 18 j 02:02	0° <u>05</u>		evening set	-2717 Oct 24 j 23:18	25° <u>05</u> 22'34	
retrograde	-2723 Jan 25 j 06:16	0° <u>05</u> 01'22					
	-2723 Feb 01 j 09:30	30° <u>05</u>		conjunction	-2717 Nov 09 j 13:06	26° <u>05</u> 18'21	0°19'13
opposition	-2723 Apr 10 j 24:00	28° <u>05</u> 01'08	0°41'23	minimum elong	-2717 Nov 09 j 13:06	26° <u>05</u> 18'21	0°19'10
min. Earth dist.	-2723 Apr 10 j 19:57	28° <u>05</u> 01'33	17.93326 AU	max. Earth dist.	-2717 Nov 10 j 06:27	26° <u>05</u> 20'57	20.37610 AU
direct	-2723 Jun 27 j 07:51	25° <u>05</u> 58'55		morning rise	-2717 Nov 25 j 03:10	27° <u>05</u> 14'11	
evening set	-2723 Sep 28 j 22:21	29° <u>05</u> 17'48			-2716 Jan 24 j 11:17	0° <u>05</u>	
	-2723 Oct 10 j 11:25	0° <u>05</u>		retrograde	-2716 Feb 25 j 12:57	0° <u>05</u> 26'14	
					-2716 Mar 29 j 14:25	30° <u>05</u>	
conjunction	-2723 Oct 14 j 14:25	0° <u>05</u> 15'14	0°36'05	opposition	-2716 May 12 j 16:24	28° <u>05</u> 26'41	0°19'29
minimum elong	-2723 Oct 14 j 14:25	0° <u>05</u> 15'14	0°36'06	min. Earth dist.	-2716 May 11 j 23:06	28° <u>05</u> 28'26	18.41027 AU
max. Earth dist.	-2723 Oct 14 j 19:00	0° <u>05</u> 15'56	19.96567 AU	direct	-2716 Jul 28 j 13:27	26° <u>05</u> 27'18	
morning rise	-2723 Oct 30 j 05:03	1° <u>05</u> 12'28		evening set	-2716 Oct 28 j 08:46	29° <u>05</u> 37'09	
retrograde	-2722 Jan 29 j 21:35	4° <u>05</u> 27'57			-2716 Nov 03 j 19:47	0° <u>05</u>	
opposition	-2722 Apr 15 j 21:46	2° <u>05</u> 27'45	0°38'46				
min. Earth dist.	-2722 Apr 15 j 16:15	2° <u>05</u> 28'19	17.99834 AU	conjunction	-2716 Nov 12 j 22:28	0° <u>05</u> 32'42	0°15'59
direct	-2722 Jul 02 j 04:10	0° <u>05</u> 25'53		minimum elong	-2716 Nov 12 j 22:28	0° <u>05</u> 32'42	0°15'58
evening set	-2722 Oct 03 j 12:43	3° <u>05</u> 43'27		behind sun begin	-2716 Nov 12 j 21:06	0° <u>05</u> 32'30	
				behind sun end	-2716 Nov 12 j 23:50	0° <u>05</u> 32'54	
conjunction	-2722 Oct 19 j 04:17	4° <u>05</u> 40'35	0°33'39	max. Earth dist.	-2716 Nov 13 j 17:11	0° <u>05</u> 35'30	20.44413 AU
minimum elong	-2722 Oct 19 j 04:17	4° <u>05</u> 40'35	0°33'38	morning rise	-2716 Nov 28 j 12:43	1° <u>05</u> 28'20	
max. Earth dist.	-2722 Oct 19 j 11:30	4° <u>05</u> 41'41	20.03151 AU	retrograde	-2715 Mar 01 j 03:28	4° <u>05</u> 39'52	
morning rise	-2722 Nov 03 j 18:33	5° <u>05</u> 37'33		opposition	-2715 May 17 j 08:53	2° <u>05</u> 40'26	0°15'51
retrograde	-2721 Feb 03 j 14:15	8° <u>05</u> 52'25		min. Earth dist.	-2715 May 16 j 13:07	2° <u>05</u> 42'26	18.47738 AU

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Attention, astronomical year style is used: The year -2715 in astronomical counting style is the year 2716 BCE in historical counting style.

direct	-2715 Aug 02 j 04:41	0°M.41'27		conjunction	-2710 Dec 07 j 19:11	25°M.25'40	-0°04'15
evening set	-2715 Nov 01 j 17:33	3°M.50'06		minimum elong	-2710 Dec 07 j 19:12	25°M.25'40	0°04'19
				behind sun begin	-2710 Dec 07 j 12:46	25°M.24'45	
conjunction	-2715 Nov 17 j 07:14	4°M.45'26	0°12'42	behind sun end	-2710 Dec 08 j 01:37	25°M.26'35	
minimum elong	-2715 Nov 17 j 07:14	4°M.45'26	0°12'39	max. Earth dist.	-2710 Dec 08 j 20:02	25°M.29'18	20.79204 AU
behind sun begin	-2715 Nov 17 j 02:58	4°M.44'49		morning rise	-2710 Dec 23 j 11:55	26°M.20'26	
behind sun end	-2715 Nov 17 j 11:29	4°M.46'03		retrograde	-2709 Mar 26 j 22:01	29°M.29'08	
max. Earth dist.	-2715 Nov 18 j 03:33	4°M.48'27	20.51004 AU	opposition	-2709 Jun 12 j 21:00	27°M.29'54	-0°06'29
morning rise	-2715 Dec 02 j 21:43	5°M.40'54		min. Earth dist.	-2709 Jun 11 j 19:45	27°M.32'25	18.81578 AU
retrograde	-2714 Mar 05 j 14:37	8°M.51'56		direct	-2709 Aug 28 j 05:04	25°M.32'36	
min. Earth dist.	-2714 May 21 j 04:55	6°M.54'36	18.54211 AU	evening set	-2709 Nov 26 j 09:54	28°M.34'55	
opposition	-2714 May 22 j 00:49	6°M.52'35	0°12'10				
direct	-2714 Aug 06 j 17:43	4°M.53'59		conjunction	-2709 Dec 12 j 00:50	29°M.29'15	-0°07'32
evening set	-2714 Nov 06 j 01:45	8°M.01'28		minimum elong	-2709 Dec 12 j 00:49	29°M.29'15	0°07'36
				behind sun begin	-2709 Dec 11 j 18:52	29°M.28'24	
conjunction	-2714 Nov 21 j 15:26	8°M.56'35	0°09'22	behind sun end	-2709 Dec 12 j 06:47	29°M.30'05	
minimum elong	-2714 Nov 21 j 15:26	8°M.56'35	0°09'18	max. Earth dist.	-2709 Dec 13 j 03:12	29°M.33'05	20.83836 AU
behind sun begin	-2714 Nov 21 j 09:54	8°M.55'47			-2709 Dec 20 j 19:52	0°X	
behind sun end	-2714 Nov 21 j 20:57	8°M.57'23		morning rise	-2709 Dec 27 j 18:05	0°X.23'54	
max. Earth dist.	-2714 Nov 22 j 12:33	8°M.59'44	20.57332 AU	retrograde	-2708 Mar 30 j 06:41	3°X.32'15	
morning rise	-2714 Dec 07 j 06:14	9°M.51'53		min. Earth dist.	-2708 Jun 15 j 07:24	1°X.35'30	18.86076 AU
retrograde	-2713 Mar 10 j 04:09	13°M.02'25		opposition	-2708 Jun 16 j 08:34	1°X.32'59	-0°10'07
opposition	-2713 May 26 j 15:52	11°M.03'09	0°08'26		-2708 Jul 31 j 01:19	30°R.M.	
min. Earth dist.	-2713 May 25 j 17:52	11°M.05'22	18.60381 AU	direct	-2708 Aug 31 j 13:38	29°M.35'53	
direct	-2713 Aug 11 j 07:46	9°M.04'53			-2708 Oct 01 j 08:31	0°X	
evening set	-2713 Nov 10 j 09:23	12°M.11'15		evening set	-2708 Nov 29 j 14:53	2°X.37'22	
conjunction	-2713 Nov 25 j 23:11	13°M.06'11	0°06'00	conjunction	-2708 Dec 15 j 06:13	3°X.31'34	-0°10'46
minimum elong	-2713 Nov 25 j 23:11	13°M.06'11	0°05'57	minimum elong	-2708 Dec 15 j 06:13	3°X.31'34	0°10'50
behind sun begin	-2713 Nov 25 j 16:57	13°M.05'17		behind sun begin	-2708 Dec 15 j 01:11	3°X.30'51	
behind sun end	-2713 Nov 26 j 05:26	13°M.07'05		behind sun end	-2708 Dec 15 j 11:15	3°X.32'17	
max. Earth dist.	-2713 Nov 26 j 21:43	13°M.09'31	20.63327 AU	max. Earth dist.	-2708 Dec 16 j 08:53	3°X.35'27	20.88199 AU
morning rise	-2713 Dec 11 j 14:19	14°M.01'19		morning rise	-2708 Dec 31 j 00:12	4°X.26'09	
	-2713 Dec 29 j 05:43	15°M.		retrograde	-2707 Apr 03 j 16:32	7°X.34'09	
retrograde	-2712 Mar 13 j 14:07	17°M.11'23		opposition	-2707 Jun 20 j 19:11	5°X.34'53	-0°13'40
min. Earth dist.	-2712 May 29 j 08:30	15°M.14'22	18.66208 AU	min. Earth dist.	-2707 Jun 19 j 16:29	5°X.37'33	18.90306 AU
opposition	-2712 May 30 j 06:26	15°M.12'10	0°04'41	direct	-2707 Sep 04 j 22:49	3°X.37'59	
	-2712 Jun 04 j 07:47	15°R.M.		evening set	-2707 Dec 03 j 19:30	6°X.38'43	
direct	-2712 Aug 14 j 19:10	13°M.14'11					
	-2712 Oct 20 j 02:42	15°M.		conjunction	-2707 Dec 19 j 11:22	7°X.32'50	-0°13'56
evening set	-2712 Nov 13 j 16:20	16°M.19'27		minimum elong	-2707 Dec 19 j 11:22	7°X.32'50	0°14'00
				behind sun begin	-2707 Dec 19 j 07:57	7°X.32'21	
conjunction	-2712 Nov 29 j 06:20	17°M.14'13	0°02'37	behind sun end	-2707 Dec 19 j 14:47	7°X.33'19	
minimum elong	-2712 Nov 29 j 06:19	17°M.14'13	0°02'33	max. Earth dist.	-2707 Dec 20 j 15:20	7°X.36'53	20.92274 AU
behind sun begin	-2712 Nov 28 j 23:48	17°M.13'16		morning rise	-2706 Jan 04 j 05:58	8°X.27'21	
behind sun end	-2712 Nov 29 j 12:50	17°M.15'09		retrograde	-2706 Apr 08 j 00:40	11°X.35'03	
max. Earth dist.	-2712 Nov 30 j 05:21	17°M.17'36	20.68978 AU	min. Earth dist.	-2706 Jun 24 j 02:54	9°X.38'28	18.94241 AU
morning rise	-2712 Dec 14 j 21:58	18°M.09'13		opposition	-2706 Jun 25 j 05:24	9°X.35'49	-0°17'08
retrograde	-2711 Mar 18 j 02:18	21°M.18'48		direct	-2706 Sep 09 j 06:26	7°X.39'08	
opposition	-2711 Jun 03 j 20:04	19°M.19'35	0°00'56	evening set	-2706 Dec 07 j 23:48	10°X.39'09	
min. Earth dist.	-2711 Jun 02 j 20:19	19°M.21'58	18.71675 AU				
direct	-2711 Aug 19 j 08:03	17°M.21'52		conjunction	-2706 Dec 23 j 16:08	11°X.33'12	-0°17'02
desc. node	-2711 Sep 03 j 17:09	17°M.27'56		minimum elong	-2706 Dec 23 j 16:08	11°X.33'12	0°17'06
evening set	-2711 Nov 17 j 22:47	20°M.26'06		max. Earth dist.	-2706 Dec 24 j 20:06	11°X.37'15	20.96064 AU
				morning rise	-2705 Jan 08 j 11:32	12°X.27'40	
conjunction	-2711 Dec 03 j 13:03	21°M.20'42	-0°00'51	retrograde	-2705 Apr 12 j 10:02	15°X.35'08	
minimum elong	-2711 Dec 03 j 13:03	21°M.20'42	0°00'55	min. Earth dist.	-2705 Jun 28 j 11:17	13°X.38'42	18.97875 AU
behind sun begin	-2711 Dec 03 j 06:31	21°M.19'46		opposition	-2705 Jun 29 j 15:01	13°X.35'56	-0°20'31
behind sun end	-2711 Dec 03 j 19:35	21°M.21'37		direct	-2705 Sep 13 j 13:54	11°X.39'27	
max. Earth dist.	-2711 Dec 04 j 13:27	21°M.24'16	20.74255 AU	evening set	-2705 Dec 12 j 03:57	14°X.38'52	
morning rise	-2711 Dec 19 j 05:10	22°M.15'34					
retrograde	-2710 Mar 22 j 11:18	25°M.24'42		conjunction	-2705 Dec 27 j 20:56	15°X.32'51	-0°20'02
min. Earth dist.	-2710 Jun 07 j 09:22	23°M.27'50	18.76784 AU	minimum elong	-2705 Dec 27 j 20:56	15°X.32'51	0°20'07
opposition	-2710 Jun 08 j 08:53	23°M.25'29	-0°02'48	max. Earth dist.	-2705 Dec 29 j 01:58	15°X.37'03	20.99523 AU
direct	-2710 Aug 23 j 17:45	21°M.27'58		morning rise	-2704 Jan 12 j 17:03	16°X.27'18	
evening set	-2710 Nov 22 j 04:39	24°M.31'13		retrograde	-2704 Apr 15 j 17:41	19°X.34'34	
				min. Earth dist.	-2704 Jul 01 j 20:57	17°X.38'08	19.01162 AU

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Attention, astronomical year style is used: The year -2704 in astronomical counting style is the year 2705 BCE in historical counting style.

opposition	-2704 Jul 03 j 00:13	17° ♂ 35'24	-0°23'47	conjunction	-2697 Jan 24 j 08:10	13° ♂ 20'13	-0°37'35
direct	-2704 Sep 16 j 20:40	15° ♂ 39'07		minimum elong	-2697 Jan 24 j 08:09	13° ♂ 20'13	0°37'40
evening set	-2704 Dec 15 j 08:01	18° ♂ 38'00		max. Earth dist.	-2697 Jan 25 j 09:47	13° ♂ 23'52	21.10897 AU
				morning rise	-2697 Feb 09 j 10:39	14° ♂ 14'52	
conjunction	-2704 Dec 31 j 01:38	19° ♂ 31'57	-0°22'57	retrograde	-2697 May 15 j 02:31	17° ♂ 21'38	
minimum elong	-2704 Dec 31 j 01:38	19° ♂ 31'57	0°23'01	min. Earth dist.	-2697 Jul 31 j 06:10	15° ♂ 24'43	19.10731 AU
max. Earth dist.	-2703 Jan 01 j 06:15	19° ♂ 36'05	21.02631 AU	opposition	-2697 Aug 01 j 05:59	15° ♂ 22'20	-0°42'36
morning rise	-2703 Jan 15 j 22:39	20° ♂ 26'23		direct	-2697 Oct 15 j 11:10	13° ♂ 26'23	
retrograde	-2703 Apr 20 j 03:05	23° ♂ 33'30		evening set	-2696 Jan 12 j 14:31	16° ♂ 23'27	
min. Earth dist.	-2703 Jul 06 j 04:58	21° ♂ 37'10	19.04069 AU				
opposition	-2703 Jul 07 j 08:55	21° ♂ 34'23	-0°26'56	conjunction	-2696 Jan 28 j 13:52	17° ♂ 17'37	-0°39'27
direct	-2703 Sep 21 j 03:03	19° ♂ 38'15		minimum elong	-2696 Jan 28 j 13:52	17° ♂ 17'37	0°39'31
evening set	-2703 Dec 19 j 12:08	22° ♂ 36'42		max. Earth dist.	-2696 Jan 29 j 15:25	17° ♂ 21'15	21.10352 AU
				morning rise	-2696 Feb 13 j 17:16	18° ♂ 12'21	
conjunction	-2702 Jan 04 j 06:27	23° ♂ 30'38	-0°25'44	retrograde	-2696 May 18 j 09:19	21° ♂ 19'08	
minimum elong	-2702 Jan 04 j 06:26	23° ♂ 30'38	0°25'50	opposition	-2696 Aug 04 j 12:28	19° ♂ 19'43	-0°44'33
max. Earth dist.	-2702 Jan 05 j 11:43	23° ♂ 34'50	21.05309 AU	min. Earth dist.	-2696 Aug 03 j 13:57	19° ♂ 21'59	19.09945 AU
morning rise	-2702 Jan 20 j 04:12	24° ♂ 25'03		direct	-2696 Oct 18 j 15:50	17° ♂ 23'39	
retrograde	-2702 Apr 24 j 10:02	27° ♂ 32'02		evening set	-2695 Jan 15 j 19:30	20° ♂ 20'43	
opposition	-2702 Jul 11 j 17:09	25° ♂ 32'58	-0°29'57				
min. Earth dist.	-2702 Jul 10 j 14:07	25° ♂ 35'40	19.06523 AU	conjunction	-2695 Jan 31 j 19:46	21° ♂ 14'59	-0°41'07
direct	-2702 Sep 25 j 08:53	23° ♂ 37'00		minimum elong	-2695 Jan 31 j 19:46	21° ♂ 14'59	0°41'13
evening set	-2702 Dec 23 j 16:17	26° ♂ 35'03		max. Earth dist.	-2695 Feb 01 j 19:41	21° ♂ 18'23	21.09349 AU
				morning rise	-2695 Feb 17 j 00:16	22° ♂ 09'50	
conjunction	-2701 Jan 08 j 11:16	27° ♂ 28'59	-0°28'24	retrograde	-2695 May 22 j 17:57	25° ♂ 16'41	
minimum elong	-2701 Jan 08 j 11:16	27° ♂ 28'59	0°28'29	opposition	-2695 Aug 08 j 18:44	23° ♂ 17'08	-0°46'17
max. Earth dist.	-2701 Jan 09 j 15:39	27° ♂ 33'03	21.07533 AU	min. Earth dist.	-2695 Aug 07 j 20:47	23° ♂ 19'21	19.08726 AU
morning rise	-2701 Jan 24 j 09:58	28° ♂ 23'25		direct	-2695 Oct 22 j 20:30	21° ♂ 20'55	
	-2701 Feb 24 j 21:04	0° ♂		evening set	-2694 Jan 20 j 00:42	24° ♂ 18'05	
retrograde	-2701 Apr 28 j 19:38	1° ♂ 30'19					
	-2701 Jul 03 j 22:33	30° ♂ 30'19		conjunction	-2694 Feb 05 j 01:58	25° ♂ 12'28	-0°42'36
min. Earth dist.	-2701 Jul 14 j 21:56	29° ♂ 33'59	19.08497 AU	minimum elong	-2694 Feb 05 j 01:58	25° ♂ 12'28	0°42'40
opposition	-2701 Jul 16 j 01:08	29° ♂ 31'16	-0°32'49	max. Earth dist.	-2694 Feb 06 j 01:44	25° ♂ 15'51	21.07912 AU
direct	-2701 Sep 29 j 14:38	27° ♂ 35'24		morning rise	-2694 Feb 21 j 07:19	26° ♂ 07'26	
	-2701 Dec 17 j 17:52	0° ♂		retrograde	-2694 May 27 j 01:11	29° ♂ 14'24	
evening set	-2701 Dec 27 j 20:26	0° ♂ 33'08		min. Earth dist.	-2694 Aug 12 j 04:05	27° ♂ 16'51	19.07094 AU
				opposition	-2694 Aug 13 j 00:50	27° ♂ 14'45	-0°47'49
conjunction	-2700 Jan 12 j 16:15	1° ♂ 27'05	-0°30'56	direct	-2694 Oct 27 j 00:46	25° ♂ 18'24	
minimum elong	-2700 Jan 12 j 16:15	1° ♂ 27'05	0°31'01	evening set	-2693 Jan 24 j 06:16	28° ♂ 15'44	
max. Earth dist.	-2700 Jan 13 j 20:54	1° ♂ 31'11	21.09228 AU				
morning rise	-2700 Jan 28 j 15:47	2° ♂ 21'33		conjunction	-2693 Feb 09 j 08:29	29° ♂ 10'15	-0°43'53
retrograde	-2700 May 02 j 02:03	5° ♂ 28'23		minimum elong	-2693 Feb 09 j 08:29	29° ♂ 10'15	0°43'57
min. Earth dist.	-2700 Jul 18 j 06:53	3° ♂ 31'56	19.09915 AU	max. Earth dist.	-2693 Feb 10 j 06:31	29° ♂ 13'23	21.06106 AU
opposition	-2700 Jul 19 j 08:52	3° ♂ 29'20	-0°35'32		-2693 Feb 24 j 00:25	0° ♂	
direct	-2700 Oct 02 j 19:54	1° ♂ 33'32		morning rise	-2693 Feb 25 j 14:56	0° ♂ 05'21	
evening set	-2700 Dec 31 j 00:51	4° ♂ 31'01		retrograde	-2693 May 31 j 10:15	3° ♂ 12'31	
				min. Earth dist.	-2693 Aug 16 j 10:50	1° ♂ 14'46	19.05108 AU
conjunction	-2699 Jan 15 j 21:27	5° ♂ 24'59	-0°33'19	opposition	-2693 Aug 17 j 06:54	1° ♂ 12'44	-0°49'07
minimum elong	-2699 Jan 15 j 21:27	5° ♂ 24'59	0°33'23		-2693 Sep 18 j 12:51	30° ♂ 30'19	
max. Earth dist.	-2699 Jan 17 j 00:42	5° ♂ 28'53	21.10367 AU	direct	-2693 Oct 31 j 05:18	29° ♂ 16'15	
morning rise	-2699 Jan 31 j 22:00	6° ♂ 19'30			-2693 Dec 11 j 17:59	0° ♂	
retrograde	-2699 May 06 j 11:25	9° ♂ 26'17		evening set	-2692 Jan 28 j 12:09	2° ♂ 13'51	
opposition	-2699 Jul 23 j 16:05	7° ♂ 27'11	-0°38'05				
min. Earth dist.	-2699 Jul 22 j 14:28	7° ♂ 29'45	19.10763 AU	conjunction	-2692 Feb 13 j 15:29	3° ♂ 08'31	-0°44'57
direct	-2699 Oct 07 j 01:13	5° ♂ 31'22		minimum elong	-2692 Feb 13 j 15:29	3° ♂ 08'31	0°45'01
evening set	-2698 Jan 04 j 05:20	8° ♂ 28'40		max. Earth dist.	-2692 Feb 14 j 13:17	3° ♂ 11'37	21.03934 AU
				morning rise	-2692 Feb 29 j 22:51	4° ♂ 03'46	
conjunction	-2698 Jan 20 j 02:52	9° ♂ 22'42	-0°35'33	retrograde	-2692 Jun 03 j 18:13	7° ♂ 11'09	
minimum elong	-2698 Jan 20 j 02:52	9° ♂ 22'42	0°35'36	opposition	-2692 Aug 20 j 13:00	5° ♂ 11'18	-0°50'11
max. Earth dist.	-2698 Jan 21 j 05:59	9° ♂ 26'34	21.10912 AU	min. Earth dist.	-2692 Aug 19 j 18:13	5° ♂ 13'12	19.02753 AU
morning rise	-2698 Feb 05 j 04:17	10° ♂ 17'16		direct	-2692 Nov 03 j 09:21	3° ♂ 14'41	
retrograde	-2698 May 10 j 17:44	13° ♂ 24'01		evening set	-2691 Jan 31 j 18:43	6° ♂ 12'38	
opposition	-2698 Jul 27 j 23:11	11° ♂ 24'51	-0°40'26				
min. Earth dist.	-2698 Jul 26 j 22:55	11° ♂ 27'17	19.11015 AU	conjunction	-2691 Feb 16 j 23:00	7° ♂ 07'28	-0°45'49
direct	-2698 Oct 11 j 06:11	9° ♂ 29'00		minimum elong	-2691 Feb 16 j 23:00	7° ♂ 07'28	0°45'52
evening set	-2697 Jan 08 j 09:48	12° ♂ 26'08		max. Earth dist.	-2691 Feb 17 j 18:45	7° ♂ 10'17	21.01415 AU
				morning rise	-2691 Mar 05 j 07:29	8° ♂ 02'53	

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Attention, astronomical year style is used: The year -2691 in astronomical counting style is the year 2692 BCE in historical counting style.

retrograde	-2691 Jun 08 j 03:56	11° \approx 10'32	opposition	-2685 Sep 18 j 11:54	3° H 30'00	-0°50'44
opposition	-2691 Aug 24 j 18:59	9° \approx 10'37 -0°51'01	min. Earth dist.	-2685 Sep 18 j 04:45	3° H 30'44	18.75198 AU
min. Earth dist.	-2691 Aug 24 j 01:15	9° \approx 12'25 19.00054 AU	direct	-2685 Dec 01 j 23:05	1° H 31'54	
direct	-2691 Nov 07 j 14:01	7° \approx 13'51	evening set	-2684 Mar 01 j 10:55	4° H 34'21	
evening set	-2690 Feb 05 j 01:45	10° \approx 12'15				
conjunction	-2690 Feb 21 j 07:09	11° \approx 07'17 -0°46'27	conjunction	-2684 Mar 17 j 22:36	5° H 30'49	-0°45'27
minimum elong	-2690 Feb 21 j 07:09	11° \approx 07'17 0°46'31	minimum elong	-2684 Mar 17 j 22:36	5° H 30'49	0°45'28
max. Earth dist.	-2690 Feb 22 j 02:27	11° \approx 10'02 20.98529 AU	max. Earth dist.	-2684 Mar 18 j 06:04	5° H 31'53	20.72390 AU
morning rise	-2690 Mar 09 j 16:29	12° \approx 02'53	morning rise	-2684 Apr 03 j 13:22	6° H 27'45	
retrograde	-2690 May 22 j 11:23	15° \approx	retrograde	-2684 Jul 07 j 08:01	9° H 38'10	
retrograde	-2690 Jun 12 j 12:51	15° \approx 10'50	opposition	-2684 Sep 21 j 19:41	7° H 37'35	-0°49'46
min. Earth dist.	-2690 Jul 03 j 19:51	15° \approx	min. Earth dist.	-2684 Sep 21 j 14:21	7° H 38'08	18.69500 AU
opposition	-2690 Aug 28 j 08:59	13° \approx 12'32 18.96978 AU	direct	-2684 Dec 05 j 07:02	5° H 39'08	
direct	-2690 Aug 29 j 01:15	13° \approx 10'53 -0°51'37	evening set	-2683 Mar 05 j 23:13	8° H 42'26	
evening set	-2690 Nov 11 j 18:21	11° \approx 13'59	conjunction	-2683 Mar 22 j 11:44	9° H 39'11	-0°44'26
conjunction	-2689 Feb 09 j 09:19	14° \approx 12'53	minimum elong	-2683 Mar 22 j 11:44	9° H 39'11	0°44'28
retrograde	-2689 Feb 23 j 06:49	15° \approx	max. Earth dist.	-2683 Mar 22 j 15:52	9° H 39'46	20.66525 AU
conjunction	-2689 Feb 25 j 15:41	15° \approx 08'07 -0°46'52	morning rise	-2683 Apr 08 j 03:25	10° H 36'22	
minimum elong	-2689 Feb 25 j 15:41	15° \approx 08'07 0°46'55	retrograde	-2683 Jul 11 j 20:19	13° H 47'15	
max. Earth dist.	-2689 Feb 26 j 08:41	15° \approx 10'32 20.95279 AU	opposition	-2683 Sep 26 j 03:44	11° H 46'27	-0°48'31
morning rise	-2689 Mar 14 j 02:07	16° \approx 03'55	min. Earth dist.	-2683 Sep 26 j 00:32	11° H 46'47	18.63474 AU
retrograde	-2689 Jun 16 j 23:24	19° \approx 12'14	direct	-2683 Dec 09 j 14:59	9° H 47'36	
opposition	-2689 Sep 02 j 07:42	17° \approx 12'13 -0°51'58	evening set	-2682 Mar 10 j 12:05	12° H 51'50	
min. Earth dist.	-2689 Sep 01 j 16:52	17° \approx 13'45 18.93526 AU	conjunction	-2682 Mar 27 j 01:42	13° H 48'52	-0°43'11
direct	-2689 Nov 15 j 23:15	15° \approx 15'10	minimum elong	-2682 Mar 27 j 01:42	13° H 48'52	0°43'12
evening set	-2688 Feb 13 j 17:44	18° \approx 14'40	max. Earth dist.	-2682 Mar 27 j 04:48	13° H 49'19	20.60356 AU
conjunction	-2688 Mar 01 j 01:15	19° \approx 10'07 -0°47'04	morning rise	-2682 Apr 12 j 17:57	14° H 46'19	
minimum elong	-2688 Mar 01 j 01:15	19° \approx 10'07 0°47'07	retrograde	-2682 Jul 16 j 08:49	17° H 57'39	
max. Earth dist.	-2688 Mar 01 j 17:26	19° \approx 12'26 20.91614 AU	opposition	-2682 Sep 30 j 12:11	15° H 56'40	-0°47'01
morning rise	-2688 Mar 17 j 12:31	20° \approx 06'07	min. Earth dist.	-2682 Sep 30 j 10:29	15° H 56'51	18.57178 AU
retrograde	-2688 Jun 20 j 09:38	23° \approx 14'50	direct	-2682 Dec 13 j 23:26	13° H 57'25	
opposition	-2688 Sep 05 j 14:15	21° \approx 14'46 -0°52'03	evening set	-2681 Mar 15 j 01:47	17° H 02'37	
min. Earth dist.	-2688 Sep 05 j 01:15	21° \approx 16'06 18.89639 AU	conjunction	-2681 Mar 31 j 16:10	17° H 59'56	-0°41'42
direct	-2688 Nov 19 j 04:38	19° \approx 17'32	minimum elong	-2681 Mar 31 j 16:11	17° H 59'56	0°41'43
evening set	-2687 Feb 17 j 03:01	22° \approx 17'41	max. Earth dist.	-2681 Mar 31 j 16:07	17° H 59'56	20.53967 AU
conjunction	-2687 Mar 05 j 11:29	23° \approx 13'23 -0°47'01	morning rise	-2681 Apr 17 j 09:18	18° H 57'39	
minimum elong	-2687 Mar 05 j 11:29	23° \approx 13'23 0°47'04	retrograde	-2681 Jul 20 j 22:14	22° H 09'30	
max. Earth dist.	-2687 Mar 06 j 00:42	23° \approx 15'16 20.87512 AU	opposition	-2681 Oct 04 j 21:09	20° H 08'19	-0°45'16
morning rise	-2687 Mar 21 j 23:48	24° \approx 09'36	min. Earth dist.	-2681 Oct 04 j 21:32	20° H 08'17	18.50703 AU
retrograde	-2687 Jun 24 j 20:53	27° \approx 18'44	direct	-2681 Dec 18 j 08:59	18° H 08'38	
opposition	-2687 Sep 09 j 21:11	25° \approx 18'35 -0°51'53	evening set	-2680 Mar 18 j 16:22	21° H 14'53	
min. Earth dist.	-2687 Sep 09 j 10:04	25° \approx 19'43 18.85302 AU	conjunction	-2680 Apr 04 j 07:48	22° H 12'31	-0°39'59
direct	-2687 Nov 23 j 09:53	23° \approx 21'06	minimum elong	-2680 Apr 04 j 07:48	22° H 12'31	0°39'59
evening set	-2686 Feb 21 j 12:52	26° \approx 21'59	max. Earth dist.	-2680 Apr 04 j 06:50	22° H 12'22	20.47414 AU
conjunction	-2686 Mar 09 j 22:27	27° \approx 17'55 -0°46'44	morning rise	-2680 Apr 21 j 01:21	23° H 10'29	
minimum elong	-2686 Mar 09 j 22:27	27° \approx 17'55 0°46'47	retrograde	-2680 Jul 24 j 11:21	26° H 22'51	
max. Earth dist.	-2686 Mar 10 j 10:28	27° \approx 19'38 20.82927 AU	opposition	-2680 Oct 08 j 06:26	24° H 21'29	-0°43'15
morning rise	-2686 Mar 26 j 11:28	28° \approx 14'22	min. Earth dist.	-2680 Oct 08 j 08:07	24° H 21'18	18.44088 AU
retrograde	-2686 Apr 30 j 05:57	0° H	direct	-2680 Dec 21 j 18:41	22° H 21'24	
opposition	-2686 Jun 29 j 08:13	1° H 23'55	evening set	-2679 Mar 23 j 07:59	25° H 28'45	
min. Earth dist.	-2686 Aug 30 j 06:49	30° \approx	conjunction	-2679 Apr 09 j 00:04	26° H 26'40	-0°38'03
direct	-2686 Sep 14 j 04:25	29° \approx 23'39 -0°51'26	minimum elong	-2679 Apr 09 j 00:04	26° H 26'40	0°38'03
evening set	-2686 Sep 13 j 19:11	29° \approx 24'37 18.80472 AU	max. Earth dist.	-2679 Apr 08 j 19:54	26° H 26'04	20.40763 AU
conjunction	-2685 Mar 14 j 10:05	1° H 23'44 -0°46'13	morning rise	-2679 Apr 25 j 18:20	27° H 24'55	
minimum elong	-2685 Mar 14 j 10:05	1° H 23'44 0°46'15	retrograde	-2679 Jun 20 j 04:42	0° Y	
max. Earth dist.	-2685 Mar 14 j 18:49	1° H 24'59 20.77879 AU	opposition	-2679 Jul 29 j 01:42	0° Y 37'50	
morning rise	-2685 Mar 31 j 00:09	2° H 20'25	min. Earth dist.	-2679 Sep 06 j 06:54	30° \approx	
retrograde	-2685 Jul 03 j 19:57	5° H 30'25	direct	-2679 Oct 12 j 16:27	28° H 36'19	-0°41'00
			evening set	-2679 Oct 12 j 20:13	28° H 35'55	18.37411 AU
				-2679 Dec 26 j 05:25	26° H 35'49	
				-2678 Mar 28 j 00:09	29° H 44'19	
				-2678 Apr 01 j 13:19	0° Y	

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Attention, astronomical year style is used: The year -2678 in astronomical counting style is the year 2679 BCE in historical counting style.

conjunction	-2678 Apr 13 j 17:10	0° Υ 42'34	-0°35'54	opposition	-2672 Nov 11 j 09:11	29° Υ 14'46	-0°18'57
minimum elong	-2678 Apr 13 j 17:10	0° Υ 42'34	0°35'54	min. Earth dist.	-2672 Nov 12 j 00:40	29° Υ 13'05	17.90289 AU
max. Earth dist.	-2678 Apr 13 j 12:16	0° Υ 41'51	20.34062 AU	direct	-2671 Jan 25 j 07:56	27° Υ 11'41	
morning rise	-2678 Apr 30 j 11:43	1° Υ 41'04			-2671 Apr 20 j 12:19	0° \mathcal{B}	
retrograde	-2678 Aug 02 j 16:20	4° Υ 54'33		evening set	-2671 Apr 28 j 23:03	0° \mathcal{B} 29'15	
opposition	-2678 Oct 17 j 03:00	2° Υ 52'55	-0°38'30				
min. Earth dist.	-2678 Oct 17 j 07:49	2° Υ 52'24	18.30694 AU	conjunction	-2671 May 15 j 19:09	1° \mathcal{B} 29'36	-0°15'20
direct	-2678 Dec 30 j 16:54	0° Υ 52'03		minimum elong	-2671 May 15 j 19:09	1° \mathcal{B} 29'36	0°15'18
evening set	-2677 Apr 01 j 17:36	4° Υ 01'45		behind sun begin	-2671 May 15 j 17:33	1° \mathcal{B} 29'22	
				behind sun end	-2671 May 15 j 20:45	1° \mathcal{B} 29'50	
conjunction	-2677 Apr 18 j 11:09	5° Υ 00'18	-0°33'31	max. Earth dist.	-2671 May 14 j 22:26	1° \mathcal{B} 26'29	19.86928 AU
minimum elong	-2677 Apr 18 j 11:09	5° Υ 00'18	0°33'31	morning rise	-2671 Jun 01 j 14:42	2° \mathcal{B} 29'54	
max. Earth dist.	-2677 Apr 18 j 03:08	4° Υ 59'07	20.27350 AU	retrograde	-2671 Sep 02 j 19:06	5° \mathcal{B} 47'31	
morning rise	-2677 May 05 j 06:18	5° Υ 59'06		opposition	-2671 Nov 16 j 01:01	3° \mathcal{B} 45'20	-0°15'04
retrograde	-2677 Aug 07 j 07:35	9° Υ 13'10		min. Earth dist.	-2671 Nov 16 j 19:04	3° \mathcal{B} 43'23	17.83591 AU
opposition	-2677 Oct 21 j 14:11	7° Υ 11'25	-0°35'46	direct	-2670 Jan 30 j 00:41	1° \mathcal{B} 41'50	
min. Earth dist.	-2677 Oct 21 j 21:18	7° Υ 10'40	18.23987 AU	evening set	-2670 May 03 j 22:51	5° \mathcal{B} 00'42	
direct	-2676 Jan 04 j 04:38	5° Υ 10'12					
evening set	-2676 Apr 05 j 11:56	8° Υ 21'09		conjunction	-2670 May 20 j 19:08	6° \mathcal{B} 01'18	-0°11'48
				minimum elong	-2670 May 20 j 19:08	6° \mathcal{B} 01'18	0°11'45
conjunction	-2676 Apr 22 j 06:19	9° Υ 20'02	-0°30'57	behind sun begin	-2670 May 20 j 14:28	6° \mathcal{B} 00'37	
minimum elong	-2676 Apr 22 j 06:19	9° Υ 20'02	0°30'57	behind sun end	-2670 May 20 j 23:49	6° \mathcal{B} 02'00	
max. Earth dist.	-2676 Apr 21 j 21:23	9° Υ 18'43	20.20643 AU	max. Earth dist.	-2670 May 19 j 21:08	5° \mathcal{B} 57'59	19.80288 AU
morning rise	-2676 May 09 j 01:38	10° Υ 19'05		morning rise	-2670 Jun 06 j 14:27	7° \mathcal{B} 01'50	
retrograde	-2676 Aug 11 j 00:21	13° Υ 33'45		retrograde	-2670 Sep 07 j 16:02	10° \mathcal{B} 19'58	
opposition	-2676 Oct 25 j 02:02	11° Υ 31'57	-0°32'49	opposition	-2670 Nov 20 j 17:23	8° \mathcal{B} 17'40	-0°11'04
min. Earth dist.	-2676 Oct 25 j 10:16	11° Υ 31'04	18.17271 AU	min. Earth dist.	-2670 Nov 21 j 11:56	8° \mathcal{B} 15'40	17.77021 AU
direct	-2675 Jan 07 j 18:04	9° Υ 30'23		direct	-2669 Feb 03 j 20:16	6° \mathcal{B} 13'45	
evening set	-2675 Apr 10 j 07:28	12° Υ 42'39		evening set	-2669 May 08 j 23:42	9° \mathcal{B} 33'53	
conjunction	-2675 Apr 27 j 02:11	13° Υ 41'49	-0°28'10	conjunction	-2669 May 25 j 19:55	10° \mathcal{B} 34'45	-0°08'10
minimum elong	-2675 Apr 27 j 02:11	13° Υ 41'49	0°28'08	minimum elong	-2669 May 25 j 19:56	10° \mathcal{B} 34'45	0°08'07
max. Earth dist.	-2675 Apr 26 j 14:03	13° Υ 40'02	20.13924 AU	behind sun begin	-2669 May 25 j 13:55	10° \mathcal{B} 33'52	
morning rise	-2675 May 13 j 21:50	14° Υ 41'09		behind sun end	-2669 May 26 j 01:56	10° \mathcal{B} 35'38	
retrograde	-2675 Aug 15 j 16:41	17° Υ 56'27		max. Earth dist.	-2669 May 24 j 19:55	10° \mathcal{B} 31'06	19.73804 AU
opposition	-2675 Oct 29 j 14:42	15° Υ 54'35	-0°29'38	morning rise	-2669 Jun 11 j 14:52	11° \mathcal{B} 35'28	
min. Earth dist.	-2675 Oct 30 j 01:30	15° Υ 53'25	18.10554 AU	retrograde	-2669 Sep 12 j 12:00	14° \mathcal{B} 54'06	
direct	-2674 Jan 12 j 07:13	13° Υ 52'39		opposition	-2669 Nov 25 j 10:32	12° \mathcal{B} 51'42	-0°06'59
evening set	-2674 Apr 15 j 03:50	17° Υ 06'15		min. Earth dist.	-2669 Nov 26 j 07:26	12° \mathcal{B} 49'25	17.70659 AU
				direct	-2668 Feb 08 j 14:34	10° \mathcal{B} 47'21	
conjunction	-2674 May 01 j 23:10	18° Υ 05'44	-0°25'12	evening set	-2668 May 13 j 01:12	14° \mathcal{B} 08'45	
minimum elong	-2674 May 01 j 23:10	18° Υ 05'44	0°25'11		-2668 May 27 j 04:50	15° \mathcal{B}	
max. Earth dist.	-2674 May 01 j 09:54	18° Υ 03'46	20.07196 AU				
morning rise	-2674 May 18 j 18:50	19° Υ 05'19		conjunction	-2668 May 29 j 21:18	15° \mathcal{B} 09'50	-0°04'28
retrograde	-2674 Aug 20 j 11:13	22° Υ 21'13		minimum elong	-2668 May 29 j 21:19	15° \mathcal{B} 09'50	0°04'25
opposition	-2674 Nov 03 j 04:03	20° Υ 19'18	-0°26'15	behind sun begin	-2668 May 29 j 14:40	15° \mathcal{B} 08'51	
min. Earth dist.	-2674 Nov 03 j 15:55	20° Υ 18'01	18.03813 AU	behind sun end	-2668 May 30 j 03:59	15° \mathcal{B} 10'50	
direct	-2673 Jan 16 j 22:55	18° Υ 17'01		max. Earth dist.	-2668 May 28 j 19:59	15° \mathcal{B} 05'59	19.67575 AU
evening set	-2673 Apr 20 j 01:18	21° Υ 31'56		morning rise	-2668 Jun 15 j 15:52	16° \mathcal{B} 10'45	
				retrograde	-2668 Sep 16 j 09:56	19° \mathcal{B} 29'50	
conjunction	-2673 May 06 j 20:55	22° Υ 31'43	-0°22'04	opposition	-2668 Nov 29 j 04:21	17° \mathcal{B} 27'20	-0°02'50
minimum elong	-2673 May 06 j 20:55	22° Υ 31'43	0°22'02	min. Earth dist.	-2668 Nov 30 j 01:25	17° \mathcal{B} 25'02	17.64580 AU
max. Earth dist.	-2673 May 06 j 04:25	22° Υ 29'15	20.00440 AU	direct	-2667 Feb 12 j 11:43	15° \mathcal{B} 22'35	
morning rise	-2673 May 23 j 16:44	23° Υ 31'33		evening set	-2667 May 18 j 03:13	18° \mathcal{B} 45'12	
retrograde	-2673 Aug 25 j 04:37	26° Υ 48'03					
opposition	-2673 Nov 07 j 18:21	24° Υ 46'03	-0°22'41	conjunction	-2667 Jun 03 j 23:04	19° \mathcal{B} 46'29	-0°00'40
min. Earth dist.	-2673 Nov 08 j 08:56	24° Υ 44'29	17.97053 AU	minimum elong	-2667 Jun 03 j 23:06	19° \mathcal{B} 46'30	0°00'36
direct	-2672 Jan 21 j 13:53	22° Υ 43'22		behind sun begin	-2667 Jun 03 j 16:19	19° \mathcal{B} 45'29	
evening set	-2672 Apr 23 j 23:41	25° Υ 59'38		behind sun end	-2667 Jun 04 j 05:52	19° \mathcal{B} 47'30	
				max. Earth dist.	-2667 Jun 02 j 20:46	19° \mathcal{B} 42'28	19.61654 AU
conjunction	-2672 May 10 j 19:42	26° Υ 59'42	-0°18'46	morning rise	-2667 Jun 20 j 16:58	20° \mathcal{B} 47'33	
minimum elong	-2672 May 10 j 19:43	26° Υ 59'42	0°18'43	asc. node	-2667 Aug 06 j 01:47	23° \mathcal{B} 10'22	
max. Earth dist.	-2672 May 10 j 01:47	26° Υ 57'01	19.93674 AU	retrograde	-2667 Sep 21 j 06:43	24° \mathcal{B} 07'06	
morning rise	-2672 May 27 j 15:23	27° Υ 59'47		opposition	-2667 Dec 03 j 23:06	22° \mathcal{B} 04'31	0°01'22
	-2672 Jul 04 j 22:37	0° \mathcal{B}		min. Earth dist.	-2667 Dec 04 j 21:59	22° \mathcal{B} 02'01	17.58860 AU
retrograde	-2672 Aug 29 j 00:30	1° \mathcal{B} 16'51		direct	-2666 Feb 17 j 07:21	19° \mathcal{B} 59'24	
	-2672 Oct 24 j 12:15	30° $\mathcal{R}\Upsilon$		evening set	-2666 May 23 j 05:54	23° \mathcal{B} 23'11	

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Attention, astronomical year style is used: The year -2666 in astronomical counting style is the year 2667 BCE in historical counting style.

max. Earth dist.	-2666 Jun 07 j 21:48	24° 8 20'26	19.56145 AU	opposition	-2660 Jan 01 j 06:38	20° II 17'32	0°25'50
				min. Earth dist.	-2660 Jan 02 j 07:49	20° II 14'47	17.34786 AU
conjunction	-2666 Jun 09 j 01:23	24° 8 24'40	0°03'12	direct	-2660 Mar 17 j 07:36	18° II 11'12	
minimum elong	-2666 Jun 09 j 01:22	24° 8 24'40	0°03'15	evening set	-2660 Jun 21 j 08:01	21° II 40'46	
behind sun begin	-2666 Jun 08 j 18:37	24° 8 23'39					
behind sun end	-2666 Jun 09 j 08:07	24° 8 25'40		conjunction	-2660 Jul 07 j 23:10	22° II 42'48	0°24'53
morning rise	-2666 Jun 25 j 18:42	25° 8 25'52		minimum elong	-2660 Jul 07 j 23:10	22° II 42'48	0°24'58
retrograde	-2666 Sep 26 j 05:15	28° 8 45'51		max. Earth dist.	-2660 Jul 06 j 17:08	22° II 38'06	19.33553 AU
opposition	-2666 Dec 08 j 18:20	26° 8 43'11	0°05'35	morning rise	-2660 Jul 24 j 10:46	23° II 44'21	
min. Earth dist.	-2666 Dec 09 j 17:00	26° 8 40'42	17.53579 AU	retrograde	-2660 Oct 24 j 00:15	27° II 06'13	
direct	-2665 Feb 22 j 06:07	24° 8 37'44		opposition	-2659 Jan 05 j 06:29	25° II 03'53	0°29'31
evening set	-2665 May 28 j 09:06	28° 8 02'39		min. Earth dist.	-2659 Jan 06 j 07:36	25° II 01'09	17.32518 AU
max. Earth dist.	-2665 Jun 13 j 00:29	29° 8 00'02	19.51088 AU	direct	-2659 Mar 22 j 10:41	22° II 57'27	
				evening set	-2659 Jun 26 j 13:08	26° II 27'39	
conjunction	-2665 Jun 14 j 04:15	29° 8 04'18	0°06'58	max. Earth dist.	-2659 Jul 11 j 22:39	27° II 25'10	19.31507 AU
minimum elong	-2665 Jun 14 j 04:14	29° 8 04'18	0°07'02				
behind sun begin	-2665 Jun 13 j 21:58	29° 8 03'22		conjunction	-2659 Jul 13 j 03:25	27° II 29'41	0°28'06
behind sun end	-2665 Jun 14 j 10:29	29° 8 05'15		minimum elong	-2659 Jul 13 j 03:25	27° II 29'41	0°28'10
	-2665 Jun 29 j 07:25	0° II		morning rise	-2659 Jul 29 j 13:41	28° II 31'11	
morning rise	-2665 Jun 30 j 20:41	0° II 05'37			-2659 Aug 24 j 07:48	0° III	
retrograde	-2665 Oct 01 j 02:56	3° II 25'59		retrograde	-2659 Oct 29 j 01:04	1° III 53'12	
opposition	-2665 Dec 13 j 14:35	1° II 23'19	0°09'46		-2658 Jan 06 j 20:01	30° R II	
min. Earth dist.	-2665 Dec 14 j 14:39	1° II 20'41	17.48777 AU	opposition	-2658 Jan 10 j 06:58	29° II 50'57	0°33'01
	-2664 Jan 17 j 07:30	30° R 8		min. Earth dist.	-2658 Jan 11 j 08:02	29° II 48'13	17.30698 AU
direct	-2664 Feb 27 j 03:36	29° 8 17'37		direct	-2658 Mar 27 j 13:49	27° II 44'26	
	-2664 Apr 07 j 13:13	0° II			-2658 Jun 10 j 07:33	0° III	
evening set	-2664 Jun 01 j 12:56	2° II 43'36		evening set	-2658 Jul 01 j 18:32	1° III 15'07	
max. Earth dist.	-2664 Jun 17 j 02:20	3° II 40'53	19.46547 AU	max. Earth dist.	-2658 Jul 17 j 02:00	2° III 12'28	19.29920 AU
conjunction	-2664 Jun 18 j 07:22	3° II 45'23	0°10'42	conjunction	-2658 Jul 18 j 07:35	2° III 17'07	0°31'08
minimum elong	-2664 Jun 18 j 07:22	3° II 45'23	0°10'46	minimum elong	-2658 Jul 18 j 07:35	2° III 17'07	0°31'11
behind sun begin	-2664 Jun 18 j 02:14	3° II 44'37		morning rise	-2658 Aug 03 j 16:45	3° III 18'34	
behind sun end	-2664 Jun 18 j 12:30	3° II 46'09		retrograde	-2658 Nov 03 j 01:20	6° III 40'40	
morning rise	-2664 Jul 04 j 23:06	4° II 46'47		opposition	-2657 Jan 15 j 07:45	4° III 38'28	0°36'17
retrograde	-2664 Oct 05 j 01:50	8° II 07'33		min. Earth dist.	-2657 Jan 16 j 08:52	4° III 35'44	17.29357 AU
opposition	-2664 Dec 17 j 11:25	6° II 04'53	0°13'55	direct	-2657 Apr 01 j 16:48	2° III 31'52	
min. Earth dist.	-2664 Dec 18 j 11:07	6° II 02'17	17.44503 AU	evening set	-2657 Jul 06 j 23:42	6° III 02'58	
direct	-2663 Mar 03 j 04:18	3° II 58'58		max. Earth dist.	-2657 Jul 22 j 07:29	7° III 00'27	19.28814 AU
evening set	-2663 Jun 06 j 17:06	7° II 25'59					
max. Earth dist.	-2663 Jun 22 j 06:34	8° II 23'27	19.42532 AU	conjunction	-2657 Jul 23 j 11:44	7° III 04'54	0°33'56
				minimum elong	-2657 Jul 23 j 11:44	7° III 04'54	0°34'01
conjunction	-2663 Jun 23 j 11:01	8° II 27'52	0°14'23	morning rise	-2657 Aug 08 j 19:34	8° III 06'15	
minimum elong	-2663 Jun 23 j 11:00	8° II 27'52	0°14'27	retrograde	-2657 Nov 08 j 02:55	11° III 28'22	
behind sun begin	-2663 Jun 23 j 08:10	8° II 27'26		opposition	-2656 Jan 20 j 09:07	9° III 26'14	0°39'18
behind sun end	-2663 Jun 23 j 13:51	8° II 28'18		min. Earth dist.	-2656 Jan 21 j 09:28	9° III 23'35	17.28486 AU
morning rise	-2663 Jul 10 j 01:39	9° II 29'21		direct	-2656 Apr 05 j 21:26	7° III 19'36	
retrograde	-2663 Oct 10 j 00:24	12° II 50'26		evening set	-2656 Jul 11 j 04:40	10° III 50'55	
opposition	-2663 Dec 22 j 09:10	10° II 47'51	0°18'00	max. Earth dist.	-2656 Jul 26 j 11:10	11° III 48'18	19.28198 AU
min. Earth dist.	-2663 Dec 23 j 09:52	10° II 45'09	17.40757 AU				
direct	-2662 Mar 08 j 03:40	8° II 41'46		conjunction	-2656 Jul 27 j 15:23	11° III 52'46	0°36'31
evening set	-2662 Jun 11 j 21:41	12° II 09'43		minimum elong	-2656 Jul 27 j 15:23	11° III 52'46	0°36'35
max. Earth dist.	-2662 Jun 27 j 08:58	13° II 07'04	19.39051 AU	morning rise	-2656 Aug 12 j 21:58	12° III 54'01	
				retrograde	-2656 Nov 12 j 02:27	16° III 16'06	
conjunction	-2662 Jun 28 j 14:41	13° II 11'41	0°17'59	opposition	-2655 Jan 24 j 10:51	14° III 14'01	0°42'02
minimum elong	-2662 Jun 28 j 14:41	13° II 11'41	0°18'04	min. Earth dist.	-2655 Jan 25 j 11:09	14° III 11'23	17.28142 AU
morning rise	-2662 Jul 15 j 04:32	14° II 13'13		direct	-2655 Apr 11 j 00:21	12° III 07'20	
retrograde	-2662 Oct 15 j 00:13	17° II 34'38		evening set	-2655 Jul 16 j 09:10	15° III 38'47	
opposition	-2662 Dec 27 j 07:31	15° II 32'07	0°21'59				
min. Earth dist.	-2662 Dec 28 j 08:02	15° II 29'26	17.37534 AU	conjunction	-2655 Aug 01 j 18:42	16° III 40'30	0°38'50
direct	-2661 Mar 13 j 06:09	13° II 25'53		minimum elong	-2655 Aug 01 j 18:42	16° III 40'30	0°38'55
evening set	-2661 Jun 17 j 02:38	16° II 54'43		max. Earth dist.	-2655 Jul 31 j 16:02	16° III 36'17	19.28128 AU
				morning rise	-2655 Aug 18 j 00:00	17° III 41'37	
conjunction	-2661 Jul 03 j 18:56	17° II 56'44	0°21'30	retrograde	-2655 Nov 17 j 04:13	21° III 03'37	
minimum elong	-2661 Jul 03 j 18:56	17° II 56'44	0°21'34	opposition	-2654 Jan 29 j 12:43	19° III 01'34	0°44'29
max. Earth dist.	-2661 Jul 02 j 14:10	17° II 52'15	19.36064 AU	min. Earth dist.	-2654 Jan 30 j 11:27	18° III 59'06	17.28344 AU
morning rise	-2661 Jul 20 j 07:32	18° II 58'16		direct	-2654 Apr 16 j 05:52	16° III 54'54	
retrograde	-2661 Oct 19 j 23:48	22° II 19'56		evening set	-2654 Jul 21 j 13:10	20° III 26'20	

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Attention, astronomical year style is used: The year -2654 in astronomical counting style is the year 2655 BCE in historical counting style.

conjunction	-2654 Aug 06 j 21:28	21°☿27'54	0°40'53	morning rise	-2648 Sep 19 j 21:41	20°♊57'39	
minimum elong	-2654 Aug 06 j 21:27	21°☿27'54	0°40'57	retrograde	-2648 Dec 19 j 21:17	24°♊17'57	
max. Earth dist.	-2654 Aug 05 j 19:50	21°☿23'51	19.28620 AU	opposition	-2647 Mar 04 j 05:00	22°♊16'47	0°52'13
morning rise	-2654 Aug 23 j 01:30	22°☿28'52		min. Earth dist.	-2647 Mar 04 j 17:12	22°♊15'29	17.46931 AU
retrograde	-2654 Nov 22 j 02:55	25°☿50'44		direct	-2647 May 20 j 09:59	20°♊11'38	
opposition	-2653 Feb 03 j 14:55	23°☿48'44	0°46'36	evening set	-2647 Aug 23 j 23:30	23°♊39'48	
min. Earth dist.	-2653 Feb 04 j 13:24	23°☿46'18	17.29140 AU				
direct	-2653 Apr 21 j 08:50	21°☿42'06		conjunction	-2647 Sep 08 j 22:52	24°♊39'44	0°46'47
evening set	-2653 Jul 26 j 16:41	25°☿13'24		minimum elong	-2647 Sep 08 j 22:52	24°♊39'44	0°46'50
				max. Earth dist.	-2647 Sep 08 j 10:30	24°♊37'47	19.49269 AU
conjunction	-2653 Aug 11 j 23:38	26°☿14'48	0°42'38	morning rise	-2647 Sep 24 j 18:54	25°♊39'09	
minimum elong	-2653 Aug 11 j 23:38	26°☿14'48	0°42'42	retrograde	-2647 Dec 24 j 20:27	28°♊59'03	
max. Earth dist.	-2653 Aug 10 j 23:35	26°☿10'59	19.29725 AU	opposition	-2646 Mar 09 j 06:50	26°♊58'03	0°51'56
morning rise	-2653 Aug 28 j 02:27	27°☿15'34		min. Earth dist.	-2646 Mar 09 j 16:27	26°♊57'02	17.51733 AU
	-2653 Oct 21 j 13:53	0°♊		direct	-2646 May 25 j 12:41	24°♊53'15	
retrograde	-2653 Nov 27 j 04:05	0°♊37'16		evening set	-2646 Aug 28 j 21:54	28°♊20'33	
	-2652 Jan 03 j 15:38	30°♋☿					
opposition	-2652 Feb 08 j 17:07	28°☿35'20	0°48'24	conjunction	-2646 Sep 13 j 20:18	29°♊20'11	0°46'23
min. Earth dist.	-2652 Feb 09 j 13:16	28°☿33'09	17.30551 AU	minimum elong	-2646 Sep 13 j 20:18	29°♊20'11	0°46'24
direct	-2652 Apr 25 j 15:01	26°☿28'49		max. Earth dist.	-2646 Sep 13 j 11:00	29°♊18'43	19.54250 AU
evening set	-2652 Jul 30 j 19:34	29°☿59'51			-2646 Sep 24 j 10:11	0°♋	
	-2652 Jul 30 j 20:32	0°♊		morning rise	-2646 Sep 29 j 15:13	0°♋19'20	
max. Earth dist.	-2652 Aug 15 j 03:17	0°♊57'34	19.31459 AU	retrograde	-2646 Dec 29 j 17:34	3°♋38'46	
				opposition	-2645 Mar 14 j 08:40	1°♋37'57	0°51'18
conjunction	-2652 Aug 16 j 01:17	1°♊01'03	0°44'06	min. Earth dist.	-2645 Mar 14 j 17:06	1°♋37'04	17.56870 AU
minimum elong	-2652 Aug 16 j 01:16	1°♊01'03	0°44'10		-2645 Apr 27 j 22:41	30°♋♊	
morning rise	-2652 Sep 01 j 02:44	2°♊01'37		direct	-2645 May 30 j 14:28	29°♊33'32	
retrograde	-2652 Dec 01 j 02:01	5°♊23'07			-2645 Jul 01 j 13:52	0°♋	
opposition	-2651 Feb 12 j 19:40	3°♊21'16	0°49'52	evening set	-2645 Sep 02 j 19:33	2°♋59'50	
min. Earth dist.	-2651 Feb 13 j 15:09	3°♊19'10	17.32619 AU				
direct	-2651 Apr 30 j 17:55	1°♊14'55		conjunction	-2645 Sep 18 j 16:41	3°♋59'10	0°45'40
evening set	-2651 Aug 04 j 21:43	4°♊45'35		minimum elong	-2645 Sep 18 j 16:41	3°♋59'10	0°45'42
max. Earth dist.	-2651 Aug 20 j 05:36	5°♊43'19	19.33862 AU	max. Earth dist.	-2645 Sep 18 j 08:16	3°♋57'51	19.59541 AU
				morning rise	-2645 Oct 04 j 10:52	4°♋58'03	
conjunction	-2651 Aug 21 j 02:03	5°♊46'33	0°45'16	retrograde	-2644 Jan 03 j 15:46	8°♋17'01	
minimum elong	-2651 Aug 21 j 02:03	5°♊46'33	0°45'18	opposition	-2644 Mar 18 j 10:04	6°♋16'19	0°50'20
morning rise	-2651 Sep 06 j 02:26	6°♊46'56		min. Earth dist.	-2644 Mar 18 j 16:06	6°♋15'41	17.62300 AU
retrograde	-2651 Dec 06 j 02:37	10°♊08'10		direct	-2644 Jun 03 j 15:55	4°♋12'15	
opposition	-2650 Feb 17 j 22:00	8°♊06'27	0°50'59	evening set	-2644 Sep 06 j 16:08	7°♋37'29	
min. Earth dist.	-2650 Feb 18 j 14:41	8°♊04'40	17.35333 AU				
direct	-2650 May 06 j 00:10	6°♊00'20		conjunction	-2644 Sep 22 j 12:25	8°♋36'30	0°44'40
evening set	-2650 Aug 09 j 23:14	9°♊30'32		minimum elong	-2644 Sep 22 j 12:25	8°♋36'30	0°44'41
max. Earth dist.	-2650 Aug 25 j 08:40	10°♊28'28	19.36892 AU	max. Earth dist.	-2644 Sep 22 j 07:05	8°♋35'40	19.65096 AU
				morning rise	-2644 Oct 08 j 05:39	9°♋35'07	
conjunction	-2650 Aug 26 j 02:25	10°♊31'17	0°46'07	retrograde	-2643 Jan 07 j 11:59	12°♋53'33	
minimum elong	-2650 Aug 26 j 02:25	10°♊31'17	0°46'10	opposition	-2643 Mar 23 j 11:04	10°♋52'59	0°49'02
morning rise	-2650 Sep 11 j 01:30	11°♊31'25		min. Earth dist.	-2643 Mar 23 j 15:33	10°♋52'31	17.67959 AU
retrograde	-2650 Dec 10 j 23:52	14°♊52'23		direct	-2643 Jun 08 j 17:25	8°♋49'16	
opposition	-2649 Feb 23 j 00:21	12°♊50'50	0°51'45	evening set	-2643 Sep 11 j 11:47	12°♋13'20	
min. Earth dist.	-2649 Feb 23 j 16:19	12°♊49'08	17.38663 AU				
direct	-2649 May 11 j 02:54	10°♊45'00		conjunction	-2643 Sep 27 j 06:58	13°♋12'03	0°43'22
evening set	-2649 Aug 15 j 00:11	14°♊14'39		minimum elong	-2643 Sep 27 j 06:59	13°♋12'03	0°43'24
	-2649 Aug 27 j 02:17	15°♊		max. Earth dist.	-2643 Sep 27 j 02:35	13°♋11'22	19.70865 AU
max. Earth dist.	-2649 Aug 30 j 09:29	15°♊12'31	19.40521 AU	morning rise	-2643 Oct 12 j 23:41	14°♋10'23	
				retrograde	-2642 Jan 12 j 08:25	17°♋28'16	
conjunction	-2649 Aug 31 j 01:59	15°♊15'07	0°46'39	opposition	-2642 Mar 28 j 11:27	15°♋27'46	0°47'26
minimum elong	-2649 Aug 31 j 01:59	15°♊15'07	0°46'42	min. Earth dist.	-2642 Mar 28 j 13:51	15°♋27'31	17.73826 AU
morning rise	-2649 Sep 16 j 00:05	16°♊15'02		direct	-2642 Jun 13 j 17:54	13°♋24'24	
retrograde	-2649 Dec 15 j 23:52	19°♊35'41		evening set	-2642 Sep 16 j 06:20	16°♋47'15	
opposition	-2648 Feb 28 j 02:38	17°♊34'20	0°52'10				
min. Earth dist.	-2648 Feb 28 j 15:48	17°♊32'55	17.42554 AU	conjunction	-2642 Oct 02 j 00:48	17°♋45'39	0°41'49
direct	-2648 May 15 j 07:42	15°♊28'49		minimum elong	-2642 Oct 02 j 00:48	17°♋45'39	0°41'50
evening set	-2648 Aug 19 j 00:07	18°♊57'47		max. Earth dist.	-2642 Oct 01 j 23:23	17°♋45'26	19.76824 AU
max. Earth dist.	-2648 Sep 03 j 11:27	19°♊55'53	19.44666 AU	morning rise	-2642 Oct 17 j 16:44	18°♋43'42	
				retrograde	-2641 Jan 17 j 02:51	22°♋00'59	
conjunction	-2648 Sep 04 j 00:49	19°♊57'59	0°46'52	opposition	-2641 Apr 02 j 11:10	20°♋00'34	0°45'33
minimum elong	-2648 Sep 04 j 00:50	19°♊57'59	0°46'55	min. Earth dist.	-2641 Apr 02 j 11:37	20°♋00'31	17.79860 AU

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Attention, astronomical year style is used: The year -2641 in astronomical counting style is the year 2642 BCE in historical counting style.

direct	-2641 Jun 18 j 18:51	17° <u>17</u> 57'32		minimum elong	-2635 Nov 01 j 02:27	18° <u>15</u> 43'32	0°24'58
evening set	-2641 Sep 20 j 23:59	21° <u>17</u> 19'07		max. Earth dist.	-2635 Nov 01 j 15:52	18° <u>15</u> 45'33	20.23407 AU
				morning rise	-2635 Nov 16 j 16:27	19° <u>15</u> 39'49	
conjunction	-2641 Oct 06 j 17:29	22° <u>17</u> 17'12	0°40'01	retrograde	-2634 Feb 16 j 19:50	22° <u>15</u> 53'00	
minimum elong	-2641 Oct 06 j 17:29	22° <u>17</u> 17'12	0°40'01	opposition	-2634 May 04 j 14:15	20° <u>15</u> 53'15	0°26'01
max. Earth dist.	-2641 Oct 06 j 17:20	22° <u>17</u> 17'10	19.82955 AU	min. Earth dist.	-2634 May 04 j 00:24	20° <u>15</u> 54'39	18.26919 AU
morning rise	-2641 Oct 22 j 09:00	23° <u>17</u> 14'58		direct	-2634 Jul 20 j 15:23	18° <u>15</u> 53'03	
retrograde	-2640 Jan 21 j 21:24	26° <u>17</u> 31'39		evening set	-2634 Oct 20 j 23:07	22° <u>15</u> 05'31	
opposition	-2640 Apr 06 j 10:24	24° <u>17</u> 31'16	0°43'23				
min. Earth dist.	-2640 Apr 06 j 08:55	24° <u>17</u> 31'25	17.86089 AU	conjunction	-2634 Nov 05 j 13:12	23° <u>15</u> 01'34	0°21'56
direct	-2640 Jun 22 j 17:30	22° <u>17</u> 28'34		minimum elong	-2634 Nov 05 j 13:12	23° <u>15</u> 01'34	0°21'53
evening set	-2640 Sep 24 j 16:16	25° <u>17</u> 48'50		max. Earth dist.	-2634 Nov 06 j 04:38	23° <u>15</u> 03'54	20.30432 AU
				morning rise	-2634 Nov 21 j 03:10	23° <u>15</u> 57'38	
conjunction	-2640 Oct 10 j 09:10	26° <u>17</u> 46'36	0°37'58	retrograde	-2633 Feb 21 j 10:41	27° <u>15</u> 10'18	
minimum elong	-2640 Oct 10 j 09:10	26° <u>17</u> 46'36	0°37'59	opposition	-2633 May 09 j 08:20	25° <u>15</u> 10'42	0°22'34
max. Earth dist.	-2640 Oct 10 j 12:06	26° <u>17</u> 47'03	19.89280 AU	min. Earth dist.	-2633 May 08 j 15:51	25° <u>15</u> 12'22	18.33897 AU
morning rise	-2640 Oct 26 j 00:08	27° <u>17</u> 44'06		direct	-2633 Jul 25 j 08:53	23° <u>15</u> 10'56	
	-2640 Dec 08 j 12:37	0° <u>15</u>		evening set	-2633 Oct 25 j 09:29	26° <u>15</u> 22'10	
retrograde	-2639 Jan 25 j 14:23	1° <u>15</u> 00'10					
	-2639 Mar 16 j 23:40	30° <u>15</u>		conjunction	-2633 Nov 09 j 23:19	27° <u>15</u> 17'59	0°18'47
opposition	-2639 Apr 11 j 08:51	28° <u>15</u> 59'50	0°40'59	minimum elong	-2633 Nov 09 j 23:19	27° <u>15</u> 17'59	0°18'45
min. Earth dist.	-2639 Apr 11 j 04:49	29° <u>15</u> 00'15	17.92499 AU	max. Earth dist.	-2633 Nov 10 j 16:20	27° <u>15</u> 20'32	20.37349 AU
direct	-2639 Jun 27 j 16:53	26° <u>15</u> 57'29		morning rise	-2633 Nov 25 j 13:24	28° <u>15</u> 13'51	
	-2639 Sep 24 j 17:31	0° <u>15</u>			-2633 Dec 28 j 19:09	0° <u>15</u>	
evening set	-2639 Sep 29 j 07:48	0° <u>15</u> 16'25		retrograde	-2632 Feb 25 j 23:18	1° <u>15</u> 26'00	
					-2632 Apr 29 j 02:23	30° <u>15</u>	
conjunction	-2639 Oct 14 j 23:55	1° <u>15</u> 13'53	0°35'43	min. Earth dist.	-2632 May 12 j 08:57	29° <u>15</u> 28'15	18.40752 AU
minimum elong	-2639 Oct 14 j 23:55	1° <u>15</u> 13'53	0°35'43	opposition	-2632 May 13 j 01:57	29° <u>15</u> 26'32	0°19'00
max. Earth dist.	-2639 Oct 15 j 04:26	1° <u>15</u> 14'34	19.95788 AU	direct	-2632 Jul 28 j 23:00	27° <u>15</u> 27'12	
morning rise	-2639 Oct 30 j 14:37	2° <u>15</u> 11'07			-2632 Oct 17 j 22:33	0° <u>15</u>	
retrograde	-2638 Jan 30 j 07:01	5° <u>15</u> 26'35		evening set	-2632 Oct 28 j 19:03	0° <u>15</u> 37'13	
opposition	-2638 Apr 16 j 06:27	3° <u>15</u> 26'18	0°38'22				
min. Earth dist.	-2638 Apr 16 j 00:43	3° <u>15</u> 26'53	17.99116 AU	conjunction	-2632 Nov 13 j 08:48	1° <u>15</u> 32'48	0°15'33
direct	-2638 Jul 02 j 13:08	1° <u>15</u> 24'19		minimum elong	-2632 Nov 13 j 08:48	1° <u>15</u> 32'48	0°15'30
evening set	-2638 Oct 03 j 22:13	4° <u>15</u> 41'56		behind sun begin	-2632 Nov 13 j 06:43	1° <u>15</u> 32'30	
				behind sun end	-2632 Nov 13 j 10:53	1° <u>15</u> 33'06	
conjunction	-2638 Oct 19 j 13:52	5° <u>15</u> 39'06	0°33'17	max. Earth dist.	-2632 Nov 14 j 03:19	1° <u>15</u> 35'34	20.44110 AU
minimum elong	-2638 Oct 19 j 13:52	5° <u>15</u> 39'06	0°33'17	morning rise	-2632 Nov 28 j 23:03	2° <u>15</u> 28'28	
max. Earth dist.	-2638 Oct 19 j 21:13	5° <u>15</u> 40'13	20.02499 AU	retrograde	-2631 Mar 01 j 13:25	5° <u>15</u> 40'07	
morning rise	-2638 Nov 04 j 04:10	6° <u>15</u> 36'05		opposition	-2631 May 17 j 18:38	3° <u>15</u> 40'46	0°15'22
retrograde	-2637 Feb 03 j 23:12	9° <u>15</u> 50'56		min. Earth dist.	-2631 May 16 j 23:17	3° <u>15</u> 42'43	18.47397 AU
opposition	-2637 Apr 21 j 03:25	7° <u>15</u> 50'46	0°35'32	direct	-2631 Aug 02 j 14:35	1° <u>15</u> 41'50	
min. Earth dist.	-2637 Apr 20 j 18:48	7° <u>15</u> 51'39	18.05903 AU	evening set	-2631 Nov 02 j 04:07	4° <u>15</u> 50'39	
direct	-2637 Jul 07 j 10:20	5° <u>15</u> 49'13					
evening set	-2637 Oct 08 j 11:44	9° <u>15</u> 05'30		conjunction	-2631 Nov 17 j 17:47	5° <u>15</u> 46'01	0°12'15
				minimum elong	-2631 Nov 17 j 17:47	5° <u>15</u> 46'01	0°12'13
conjunction	-2637 Oct 24 j 02:46	10° <u>15</u> 02'22	0°30'40	behind sun begin	-2631 Nov 17 j 13:19	5° <u>15</u> 45'22	
minimum elong	-2637 Oct 24 j 02:46	10° <u>15</u> 02'22	0°30'39	behind sun end	-2631 Nov 17 j 22:15	5° <u>15</u> 46'40	
max. Earth dist.	-2637 Oct 24 j 11:55	10° <u>15</u> 03'46	20.09367 AU	max. Earth dist.	-2631 Nov 18 j 13:35	5° <u>15</u> 48'58	20.50616 AU
morning rise	-2637 Nov 08 j 16:55	10° <u>15</u> 59'07		morning rise	-2631 Dec 03 j 08:15	6° <u>15</u> 41'30	
retrograde	-2636 Feb 08 j 14:24	14° <u>15</u> 13'25		retrograde	-2630 Mar 06 j 01:01	9° <u>15</u> 52'38	
opposition	-2636 Apr 24 j 23:51	12° <u>15</u> 13'21	0°32'31	opposition	-2630 May 22 j 10:37	7° <u>15</u> 53'22	0°11'40
min. Earth dist.	-2636 Apr 24 j 13:46	12° <u>15</u> 14'23	18.12847 AU	min. Earth dist.	-2630 May 21 j 15:12	7° <u>15</u> 55'20	18.53772 AU
direct	-2636 Jul 11 j 04:23	10° <u>15</u> 12'14		direct	-2630 Aug 07 j 03:28	5° <u>15</u> 54'47	
evening set	-2636 Oct 12 j 00:19	13° <u>15</u> 27'14		evening set	-2630 Nov 06 j 12:28	9° <u>15</u> 02'28	
conjunction	-2636 Oct 27 j 15:02	14° <u>15</u> 23'49	0°27'53	conjunction	-2630 Nov 22 j 02:12	9° <u>15</u> 57'37	0°08'55
minimum elong	-2636 Oct 27 j 15:02	14° <u>15</u> 23'49	0°27'52	minimum elong	-2630 Nov 22 j 02:11	9° <u>15</u> 57'37	0°08'53
max. Earth dist.	-2636 Oct 28 j 02:43	14° <u>15</u> 25'36	20.16366 AU	behind sun begin	-2630 Nov 21 j 20:33	9° <u>15</u> 56'48	
morning rise	-2636 Nov 12 j 05:01	15° <u>15</u> 20'19		behind sun end	-2630 Nov 22 j 07:50	9° <u>15</u> 58'26	
retrograde	-2635 Feb 12 j 06:02	18° <u>15</u> 34'03		max. Earth dist.	-2630 Nov 22 j 22:58	10° <u>15</u> 00'42	20.56840 AU
opposition	-2635 Apr 29 j 19:18	16° <u>15</u> 34'09	0°29'20	morning rise	-2630 Dec 07 j 16:58	10° <u>15</u> 52'56	
min. Earth dist.	-2635 Apr 29 j 06:23	16° <u>15</u> 35'28	18.19873 AU	retrograde	-2629 Mar 10 j 13:59	14° <u>15</u> 03'34	
direct	-2635 Jul 15 j 23:37	14° <u>15</u> 33'29		min. Earth dist.	-2629 May 26 j 04:18	12° <u>15</u> 06'31	18.59831 AU
evening set	-2635 Oct 16 j 12:08	17° <u>15</u> 47'12		opposition	-2629 May 27 j 01:52	12° <u>15</u> 04'21	0°07'56
				direct	-2629 Aug 11 j 17:23	10° <u>15</u> 06'05	
conjunction	-2635 Nov 01 j 02:27	18° <u>15</u> 43'32	0°24'58	evening set	-2629 Nov 10 j 20:04	13° <u>15</u> 12'36	

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Attention, astronomical year style is used: The year -2629 in astronomical counting style is the year 2630 BCE in historical counting style.

conjunction	-2629 Nov 26 j 09:53	14° $\overline{\text{M}}$ 07'34	0°05'34	conjunction	-2624 Dec 15 j 16:57	4° $\overline{\text{X}}$ 33'47	-0°11'09
minimum elong	-2629 Nov 26 j 09:53	14° $\overline{\text{M}}$ 07'34	0°05'31	minimum elong	-2624 Dec 15 j 16:57	4° $\overline{\text{X}}$ 33'47	0°11'13
behind sun begin	-2629 Nov 26 j 03:35	14° $\overline{\text{M}}$ 06'40		behind sun begin	-2624 Dec 15 j 12:04	4° $\overline{\text{X}}$ 33'06	
behind sun end	-2629 Nov 26 j 16:11	14° $\overline{\text{M}}$ 08'29		behind sun end	-2624 Dec 15 j 21:51	4° $\overline{\text{X}}$ 34'29	
max. Earth dist.	-2629 Nov 27 j 07:57	14° $\overline{\text{M}}$ 10'50	20.62726 AU	max. Earth dist.	-2624 Dec 16 j 19:43	4° $\overline{\text{X}}$ 37'41	20.87702 AU
	-2629 Dec 11 j 06:09	15° $\overline{\text{M}}$		morning rise	-2624 Dec 31 j 10:52	5° $\overline{\text{X}}$ 28'23	
morning rise	-2629 Dec 12 j 01:02	15° $\overline{\text{M}}$ 02'44		retrograde	-2623 Apr 04 j 03:27	8° $\overline{\text{X}}$ 36'25	
retrograde	-2628 Mar 14 j 00:34	18° $\overline{\text{M}}$ 12'53		min. Earth dist.	-2623 Jun 20 j 02:29	6° $\overline{\text{X}}$ 39'51	18.89863 AU
opposition	-2628 May 30 j 16:32	16° $\overline{\text{M}}$ 13'41	0°04'11	opposition	-2623 Jun 21 j 05:27	6° $\overline{\text{X}}$ 37'09	-0°14'05
min. Earth dist.	-2628 May 29 j 19:00	16° $\overline{\text{M}}$ 15'50	18.65558 AU	direct	-2623 Sep 05 j 09:22	4° $\overline{\text{X}}$ 40'14	
	-2628 Jul 02 j 17:03	15° $\overline{\text{K}}$ $\overline{\text{M}}$		evening set	-2623 Dec 04 j 06:19	7° $\overline{\text{X}}$ 41'02	
direct	-2628 Aug 15 j 05:26	14° $\overline{\text{M}}$ 15'41					
	-2628 Sep 26 j 04:55	15° $\overline{\text{M}}$		conjunction	-2623 Dec 19 j 22:06	8° $\overline{\text{X}}$ 35'10	-0°14'18
evening set	-2628 Nov 14 j 03:06	17° $\overline{\text{M}}$ 21'06		minimum elong	-2623 Dec 19 j 22:06	8° $\overline{\text{X}}$ 35'10	0°14'22
				behind sun begin	-2623 Dec 19 j 18:58	8° $\overline{\text{X}}$ 34'44	
conjunction	-2628 Nov 29 j 17:07	18° $\overline{\text{M}}$ 15'52	0°02'11	behind sun end	-2623 Dec 20 j 01:15	8° $\overline{\text{X}}$ 35'37	
minimum elong	-2628 Nov 29 j 17:07	18° $\overline{\text{M}}$ 15'52	0°02'08	max. Earth dist.	-2623 Dec 21 j 02:01	8° $\overline{\text{X}}$ 39'13	20.91885 AU
behind sun begin	-2628 Nov 29 j 10:35	18° $\overline{\text{M}}$ 14'56		morning rise	-2622 Jan 04 j 16:39	9° $\overline{\text{X}}$ 29'42	
behind sun end	-2628 Nov 29 j 23:38	18° $\overline{\text{M}}$ 16'49		retrograde	-2622 Apr 08 j 10:35	12° $\overline{\text{X}}$ 37'26	
max. Earth dist.	-2628 Nov 30 j 15:59	18° $\overline{\text{M}}$ 19'15	20.68295 AU	opposition	-2622 Jun 25 j 15:40	10° $\overline{\text{X}}$ 38'12	-0°17'32
morning rise	-2628 Dec 15 j 08:45	19° $\overline{\text{M}}$ 10'54		min. Earth dist.	-2622 Jun 24 j 13:06	10° $\overline{\text{X}}$ 40'51	18.93901 AU
retrograde	-2627 Mar 18 j 12:33	22° $\overline{\text{M}}$ 20'33		direct	-2622 Sep 09 j 16:31	8° $\overline{\text{X}}$ 41'30	
min. Earth dist.	-2627 Jun 03 j 06:33	20° $\overline{\text{M}}$ 23'41	18.70967 AU	evening set	-2622 Dec 08 j 10:45	11° $\overline{\text{X}}$ 41'37	
opposition	-2627 Jun 04 j 06:02	20° $\overline{\text{M}}$ 21'20	0°00'27				
desc. node	-2627 Jul 18 j 23:10	18° $\overline{\text{M}}$ 48'02		conjunction	-2622 Dec 24 j 03:04	12° $\overline{\text{X}}$ 35'39	-0°17'23
direct	-2627 Aug 19 j 17:29	18° $\overline{\text{M}}$ 23'34		minimum elong	-2622 Dec 24 j 03:04	12° $\overline{\text{X}}$ 35'39	0°17'27
evening set	-2627 Nov 18 j 09:30	21° $\overline{\text{M}}$ 27'55		max. Earth dist.	-2622 Dec 25 j 07:08	12° $\overline{\text{X}}$ 39'43	20.95774 AU
				morning rise	-2621 Jan 08 j 22:23	13° $\overline{\text{X}}$ 30'08	
conjunction	-2627 Dec 03 j 23:45	22° $\overline{\text{M}}$ 22'32	-0°01'18	retrograde	-2621 Apr 12 j 20:43	16° $\overline{\text{X}}$ 37'37	
minimum elong	-2627 Dec 03 j 23:46	22° $\overline{\text{M}}$ 22'32	0°01'22	min. Earth dist.	-2621 Jun 28 j 21:33	14° $\overline{\text{X}}$ 41'12	18.97623 AU
behind sun begin	-2627 Dec 03 j 17:14	22° $\overline{\text{M}}$ 21'36		opposition	-2621 Jun 30 j 01:23	14° $\overline{\text{X}}$ 38'26	-0°20'53
behind sun end	-2627 Dec 04 j 06:18	22° $\overline{\text{M}}$ 23'28		direct	-2621 Sep 14 j 00:41	12° $\overline{\text{X}}$ 41'56	
max. Earth dist.	-2627 Dec 04 j 23:56	22° $\overline{\text{M}}$ 26'05	20.73541 AU	evening set	-2621 Dec 12 j 14:55	15° $\overline{\text{X}}$ 41'25	
morning rise	-2627 Dec 19 j 15:53	23° $\overline{\text{M}}$ 17'26					
retrograde	-2626 Mar 22 j 21:24	26° $\overline{\text{M}}$ 26'37		conjunction	-2621 Dec 28 j 07:51	16° $\overline{\text{X}}$ 35'25	-0°20'22
opposition	-2626 Jun 08 j 19:01	24° $\overline{\text{M}}$ 27'23	-0°03'16	minimum elong	-2621 Dec 28 j 07:51	16° $\overline{\text{X}}$ 35'25	0°20'26
min. Earth dist.	-2626 Jun 07 j 19:37	24° $\overline{\text{M}}$ 29'44	18.76078 AU	max. Earth dist.	-2621 Dec 29 j 12:50	16° $\overline{\text{X}}$ 39'36	20.99304 AU
direct	-2626 Aug 24 j 04:28	22° $\overline{\text{M}}$ 29'50		morning rise	-2620 Jan 13 j 03:55	17° $\overline{\text{X}}$ 29'52	
evening set	-2626 Nov 22 j 15:16	25° $\overline{\text{M}}$ 33'11		retrograde	-2620 Apr 16 j 03:59	20° $\overline{\text{X}}$ 37'08	
				min. Earth dist.	-2620 Jul 02 j 07:38	18° $\overline{\text{X}}$ 40'42	19.00962 AU
conjunction	-2626 Dec 08 j 05:48	26° $\overline{\text{M}}$ 27'39	-0°04'39	opposition	-2620 Jul 03 j 10:44	18° $\overline{\text{X}}$ 38'00	-0°24'08
minimum elong	-2626 Dec 08 j 05:48	26° $\overline{\text{M}}$ 27'39	0°04'43	direct	-2620 Sep 17 j 06:41	16° $\overline{\text{X}}$ 41'42	
behind sun begin	-2626 Dec 07 j 23:24	26° $\overline{\text{M}}$ 26'44		evening set	-2620 Dec 15 j 19:10	19° $\overline{\text{X}}$ 40'39	
behind sun end	-2626 Dec 08 j 12:11	26° $\overline{\text{M}}$ 28'34					
max. Earth dist.	-2626 Dec 09 j 06:44	26° $\overline{\text{M}}$ 31'18	20.78518 AU	conjunction	-2620 Dec 31 j 12:44	20° $\overline{\text{X}}$ 34'36	-0°23'15
morning rise	-2626 Dec 23 j 22:27	27° $\overline{\text{M}}$ 22'26		minimum elong	-2620 Dec 31 j 12:44	20° $\overline{\text{X}}$ 34'36	0°23'20
	-2625 Feb 19 j 14:22	0° $\overline{\text{X}}$		max. Earth dist.	-2619 Jan 01 j 17:23	20° $\overline{\text{X}}$ 38'43	21.02442 AU
retrograde	-2625 Mar 27 j 08:52	0° $\overline{\text{X}}$ 31'12		morning rise	-2619 Jan 16 j 09:39	21° $\overline{\text{X}}$ 29'02	
	-2625 May 03 j 00:08	30° $\overline{\text{K}}$ $\overline{\text{M}}$		retrograde	-2619 Apr 20 j 13:34	24° $\overline{\text{X}}$ 36'08	
min. Earth dist.	-2625 Jun 12 j 05:45	28° $\overline{\text{M}}$ 34'28	18.80928 AU	opposition	-2619 Jul 07 j 19:21	22° $\overline{\text{X}}$ 37'02	-0°27'16
opposition	-2625 Jun 13 j 07:09	28° $\overline{\text{M}}$ 31'56	-0°06'56	min. Earth dist.	-2619 Jul 06 j 15:37	22° $\overline{\text{X}}$ 39'48	19.03879 AU
direct	-2625 Aug 28 j 15:00	26° $\overline{\text{M}}$ 34'35		direct	-2619 Sep 21 j 13:46	20° $\overline{\text{X}}$ 40'54	
evening set	-2625 Nov 26 j 20:41	29° $\overline{\text{M}}$ 37'01		evening set	-2619 Dec 19 j 23:24	23° $\overline{\text{X}}$ 39'24	
	-2625 Dec 03 j 12:28	0° $\overline{\text{X}}$					
conjunction	-2625 Dec 12 j 11:34	0° $\overline{\text{X}}$ 31'21	-0°07'56	conjunction	-2618 Jan 04 j 17:37	24° $\overline{\text{X}}$ 33'20	-0°26'02
minimum elong	-2625 Dec 12 j 11:34	0° $\overline{\text{X}}$ 31'21	0°08'00	minimum elong	-2618 Jan 04 j 17:37	24° $\overline{\text{X}}$ 33'20	0°26'06
behind sun begin	-2625 Dec 12 j 05:41	0° $\overline{\text{X}}$ 30'31		max. Earth dist.	-2618 Jan 05 j 22:40	24° $\overline{\text{X}}$ 37'30	21.05109 AU
behind sun end	-2625 Dec 12 j 17:26	0° $\overline{\text{X}}$ 32'11		morning rise	-2618 Jan 20 j 15:20	25° $\overline{\text{X}}$ 27'45	
max. Earth dist.	-2625 Dec 13 j 13:51	0° $\overline{\text{X}}$ 35'11	20.83230 AU	retrograde	-2618 Apr 24 j 21:01	28° $\overline{\text{X}}$ 34'44	
morning rise	-2625 Dec 28 j 04:47	1° $\overline{\text{X}}$ 26'02		min. Earth dist.	-2618 Jul 11 j 01:12	26° $\overline{\text{X}}$ 38'20	19.06300 AU
retrograde	-2624 Mar 30 j 16:35	4° $\overline{\text{X}}$ 34'24		opposition	-2618 Jul 12 j 03:50	26° $\overline{\text{X}}$ 35'40	-0°30'15
opposition	-2624 Jun 16 j 18:42	2° $\overline{\text{X}}$ 35'08	-0°10'32	direct	-2618 Sep 25 j 19:14	24° $\overline{\text{X}}$ 39'40	
min. Earth dist.	-2624 Jun 15 j 17:24	2° $\overline{\text{X}}$ 37'40	18.85525 AU	evening set	-2618 Dec 24 j 03:30	27° $\overline{\text{X}}$ 37'46	
direct	-2624 Sep 01 j 00:07	0° $\overline{\text{X}}$ 38'00					
evening set	-2624 Nov 30 j 01:38	3° $\overline{\text{X}}$ 39'34		conjunction	-2617 Jan 08 j 22:26	28° $\overline{\text{X}}$ 31'41	-0°28'40
				minimum elong	-2617 Jan 08 j 22:26	28° $\overline{\text{X}}$ 31'41	0°28'45
				max. Earth dist.	-2617 Jan 10 j 02:40	28° $\overline{\text{X}}$ 35'44	21.07272 AU

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

morning rise	-2617 Jan 24 j 21:03	29° 26 '08	direct	-2611 Oct 23 j 07:41	22° 22 '49
	-2617 Feb 04 j 04:29	0° 3	evening set	-2610 Jan 20 j 11:31	25° 3 '20'01
retrograde	-2617 Apr 29 j 06:07	2° 33 '02			
min. Earth dist.	-2617 Jul 15 j 09:02	0° 36 '39 19.08191 AU	conjunction	-2610 Feb 05 j 12:42	26° 3 '14'25 -0°42'37
opposition	-2617 Jul 16 j 11:57	0° 33 '58 -0°33'06	minimum elong	-2610 Feb 05 j 12:41	26° 3 '14'25 0°42'41
	-2617 Jul 30 j 20:54	30° 8 ' 2	max. Earth dist.	-2610 Feb 06 j 12:38	26° 3 '17'49 21.07523 AU
direct	-2617 Sep 30 j 01:34	28° 2 '38'03	morning rise	-2610 Feb 21 j 17:58	27° 3 '09'23
	-2617 Nov 26 j 22:57	0° 3		-2610 May 01 j 10:04	0° 3
evening set	-2617 Dec 28 j 07:49	1° 3 '35'49	retrograde	-2610 May 27 j 11:26	0° 3 '16'23
				-2610 Jun 22 j 21:55	30° 8 ' 3
conjunction	-2616 Jan 13 j 03:33	2° 3 '29'45 -0°31'10	opposition	-2610 Aug 13 j 11:26	28° 3 '16'43 -0°47'48
minimum elong	-2616 Jan 13 j 03:33	2° 3 '29'45 0°31'14	min. Earth dist.	-2610 Aug 12 j 14:30	28° 3 '18'50 19.06767 AU
max. Earth dist.	-2616 Jan 14 j 07:43	2° 3 '33'47 21.08869 AU	direct	-2610 Oct 27 j 11:41	26° 3 '20'22
morning rise	-2616 Jan 29 j 03:01	3° 3 '24'14	evening set	-2609 Jan 24 j 16:52	29° 3 '17'45
retrograde	-2616 May 02 j 13:32	6° 3 '31'02		-2609 Feb 06 j 04:51	0° 3
opposition	-2616 Jul 19 j 19:39	4° 3 '31'57 -0°35'47			
min. Earth dist.	-2616 Jul 18 j 18:06	4° 3 '34'30 19.09502 AU	conjunction	-2609 Feb 09 j 19:01	0° 3 '12'16 -0°43'51
direct	-2616 Oct 03 j 06:51	2° 3 '36'04	minimum elong	-2609 Feb 09 j 19:01	0° 3 '12'16 0°43'54
evening set	-2616 Dec 31 j 12:08	5° 3 '33'34	max. Earth dist.	-2609 Feb 10 j 17:30	0° 3 '15'28 21.05842 AU
			morning rise	-2609 Feb 26 j 01:23	1° 3 ' 07 '23
conjunction	-2615 Jan 16 j 08:43	6° 3 '27'32 -0°33'31	retrograde	-2609 May 31 j 20:56	4° 3 ' 14 '35
minimum elong	-2615 Jan 16 j 08:43	6° 3 '27'32 0°33'35	opposition	-2609 Aug 17 j 17:33	2° 3 ' 14 '50 -0°49'04
max. Earth dist.	-2615 Jan 17 j 11:38	6° 3 '31'23 21.09900 AU	min. Earth dist.	-2609 Aug 16 j 21:07	2° 3 ' 16 '54 19.04904 AU
morning rise	-2615 Feb 01 j 09:11	7° 3 '22'03	direct	-2609 Oct 31 j 16:00	0° 3 ' 18 '22
retrograde	-2615 May 06 j 22:05	10° 3 '28'49	evening set	-2608 Jan 28 j 22:49	3° 3 ' 16 '01
min. Earth dist.	-2615 Jul 23 j 01:31	8° 3 '32'12 19.10243 AU			
opposition	-2615 Jul 24 j 02:59	8° 3 '29'39 -0°38'17	conjunction	-2608 Feb 14 j 02:02	4° 3 ' 10 '42 -0°44'54
direct	-2615 Oct 07 j 12:33	6° 3 '33'45	minimum elong	-2608 Feb 14 j 02:02	4° 3 ' 10 '42 0°44'57
evening set	-2614 Jan 04 j 16:28	9° 3 '31'03	max. Earth dist.	-2608 Feb 15 j 00:07	4° 3 ' 13 '50 21.03790 AU
			morning rise	-2608 Mar 01 j 09:20	5° 3 ' 05 '57
conjunction	-2614 Jan 20 j 13:54	10° 3 '25'04 -0°35'42	retrograde	-2608 Jun 04 j 04:29	8° 3 ' 13 '22
minimum elong	-2614 Jan 20 j 13:54	10° 3 '25'04 0°35'47	opposition	-2608 Aug 20 j 23:33	6° 3 ' 13 '34 -0°50'06
max. Earth dist.	-2614 Jan 21 j 16:40	10° 3 '28'53 21.10353 AU	min. Earth dist.	-2608 Aug 20 j 04:41	6° 3 ' 15 '29 19.02664 AU
morning rise	-2614 Feb 05 j 15:15	11° 3 '19'39	direct	-2608 Nov 03 j 20:06	4° 3 ' 16 '59
retrograde	-2614 May 11 j 04:54	14° 3 '26'23	evening set	-2607 Feb 01 j 05:19	7° 3 ' 14 '59
min. Earth dist.	-2614 Jul 27 j 09:55	12° 3 '29'32 19.10430 AU			
opposition	-2614 Jul 28 j 10:01	12° 3 '27'07 -0°40'35	conjunction	-2607 Feb 17 j 09:32	8° 3 ' 09 '50 -0°45'43
direct	-2614 Oct 11 j 17:32	10° 3 '31'11	minimum elong	-2607 Feb 17 j 09:32	8° 3 ' 09 '50 0°45'47
evening set	-2613 Jan 08 j 20:55	13° 3 '28'19	max. Earth dist.	-2607 Feb 18 j 05:40	8° 3 ' 12 '42 21.01377 AU
			morning rise	-2607 Mar 05 j 17:55	9° 3 ' 05 '15
conjunction	-2613 Jan 24 j 19:13	14° 3 '22'24 -0°37'43	retrograde	-2607 Jun 08 j 14:35	12° 3 ' 12 '57
minimum elong	-2613 Jan 24 j 19:13	14° 3 '22'24 0°37'47	min. Earth dist.	-2607 Aug 24 j 11:43	10° 3 ' 14 '55 19.00055 AU
max. Earth dist.	-2613 Jan 25 j 20:47	14° 3 '26'03 21.10304 AU	opposition	-2607 Aug 25 j 05:42	10° 3 ' 13 '05 -0°50'54
morning rise	-2613 Feb 09 j 21:36	15° 3 '17'03	direct	-2607 Nov 08 j 00:33	8° 3 ' 16 '23
retrograde	-2613 May 15 j 13:31	18° 3 '23'48	evening set	-2606 Feb 05 j 12:16	11° 3 ' 14 '48
opposition	-2613 Aug 01 j 16:42	16° 3 '24'25 -0°42'42			
min. Earth dist.	-2613 Jul 31 j 16:45	16° 3 '26'50 19.10144 AU	conjunction	-2606 Feb 21 j 17:33	12° 3 ' 09 '50 -0°46'20
direct	-2613 Oct 15 j 22:41	14° 3 '28'24	minimum elong	-2606 Feb 21 j 17:33	12° 3 ' 09 '50 0°46'23
evening set	-2612 Jan 13 j 01:29	17° 3 '25'28	max. Earth dist.	-2606 Feb 22 j 13:01	12° 3 ' 12 '37 20.98560 AU
			morning rise	-2606 Mar 10 j 02:47	13° 3 ' 05 '26
conjunction	-2612 Jan 29 j 00:45	18° 3 '19'39 -0°39'32		-2606 Apr 17 j 16:55	15° 3
minimum elong	-2612 Jan 29 j 00:45	18° 3 '19'39 0°39'37	retrograde	-2606 Jun 12 j 23:12	16° 3 ' 13 '27
max. Earth dist.	-2612 Jan 30 j 02:14	18° 3 '23'16 21.09783 AU		-2606 Aug 10 j 00:02	15° 8
morning rise	-2612 Feb 14 j 04:04	19° 3 '14'23	opposition	-2606 Aug 29 j 12:00	14° 3 ' 13 '32 -0°51'28
retrograde	-2612 May 18 j 19:53	22° 3 '21'10	min. Earth dist.	-2606 Aug 28 j 19:46	14° 3 ' 15 '12 18.97028 AU
opposition	-2612 Aug 04 j 23:11	20° 3 '21'41 -0°44'37	direct	-2606 Nov 12 j 05:01	12° 3 ' 16 '42
min. Earth dist.	-2612 Aug 04 j 00:35	20° 3 '23'58 19.09408 AU		-2605 Feb 05 j 02:41	15° 3
direct	-2612 Oct 19 j 03:05	18° 3 '25'34	evening set	-2605 Feb 09 j 20:02	15° 3 ' 15 '37
evening set	-2611 Jan 16 j 06:24	21° 3 '22'39			
			conjunction	-2605 Feb 26 j 02:18	16° 3 ' 10 '51 -0°46'43
conjunction	-2611 Feb 01 j 06:34	22° 3 '16'55 -0°41'10	minimum elong	-2605 Feb 26 j 02:18	16° 3 ' 10 '51 0°46'47
minimum elong	-2611 Feb 01 j 06:34	22° 3 '16'55 0°41'14	max. Earth dist.	-2605 Feb 26 j 19:23	16° 3 ' 13 '17 20.95335 AU
max. Earth dist.	-2611 Feb 02 j 06:42	22° 3 '20'22 21.08851 AU	morning rise	-2605 Mar 14 j 12:36	17° 3 ' 06 '39
morning rise	-2611 Feb 17 j 10:56	23° 3 '11'46	retrograde	-2605 Jun 17 j 10:17	20° 3 ' 15 '01
retrograde	-2611 May 23 j 04:57	26° 3 '18'39	opposition	-2605 Sep 02 j 18:24	18° 3 ' 15 '02 -0°51'46
min. Earth dist.	-2611 Aug 08 j 07:00	24° 3 '21'18 19.08280 AU	min. Earth dist.	-2605 Sep 02 j 03:32	18° 3 ' 16 '33 18.93578 AU
opposition	-2611 Aug 09 j 05:16	24° 3 '19'03 -0°46'19	direct	-2605 Nov 16 j 10:18	16° 3 ' 18 '00

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

evening set	-2604 Feb 14 j 04:31	19° \approx 17'30		max. Earth dist.	-2598 Mar 27 j 15:19	14° \mathbb{H} 50'25	20.60302 AU
				morning rise	-2598 Apr 13 j 03:55	15° \mathbb{H} 47'19	
conjunction	-2604 Mar 01 j 11:55	20° \approx 12'58 -0°46'53		retrograde	-2598 Jul 16 j 18:31	18° \mathbb{H} 58'36	
minimum elong	-2604 Mar 01 j 11:55	20° \approx 12'58 0°46'55		opposition	-2598 Sep 30 j 22:48	16° \mathbb{H} 57'32 -0°46'38	
max. Earth dist.	-2604 Mar 02 j 03:51	20° \approx 15'14 20.91643 AU		min. Earth dist.	-2598 Sep 30 j 20:47	16° \mathbb{H} 57'45 18.57188 AU	
morning rise	-2604 Mar 17 j 23:05	21° \approx 08'57		direct	-2598 Dec 14 j 10:51	14° \mathbb{H} 58'14	
retrograde	-2604 Jun 20 j 19:54	24° \approx 17'41		evening set	-2597 Mar 15 j 11:54	18° \mathbb{H} 03'21	
opposition	-2604 Sep 06 j 01:07	22° \approx 17'37 -0°51'50					
min. Earth dist.	-2604 Sep 05 j 12:18	22° \approx 18'56 18.89639 AU		conjunction	-2597 Apr 01 j 02:13	19° \mathbb{H} 00'38 -0°41'20	
direct	-2604 Nov 19 j 15:17	20° \approx 20'22		minimum elong	-2597 Apr 01 j 02:13	19° \mathbb{H} 00'38 0°41'21	
evening set	-2603 Feb 17 j 13:47	23° \approx 20'30		max. Earth dist.	-2597 Apr 01 j 02:46	19° \mathbb{H} 00'43 20.54046 AU	
				morning rise	-2597 Apr 17 j 19:16	19° \mathbb{H} 58'20	
conjunction	-2603 Mar 05 j 22:08	24° \approx 16'11 -0°46'48		retrograde	-2597 Jul 21 j 07:33	23° \mathbb{H} 10'08	
minimum elong	-2603 Mar 05 j 22:08	24° \approx 16'11 0°46'51		opposition	-2597 Oct 05 j 07:37	21° \mathbb{H} 08'54 -0°44'51	
max. Earth dist.	-2603 Mar 06 j 11:09	24° \approx 18'02 20.87469 AU		min. Earth dist.	-2597 Oct 05 j 07:29	21° \mathbb{H} 08'55 18.50861 AU	
morning rise	-2603 Mar 22 j 10:19	25° \approx 12'23		direct	-2597 Dec 18 j 19:06	19° \mathbb{H} 09'12	
retrograde	-2603 Jun 25 j 07:37	28° \approx 21'30		evening set	-2596 Mar 19 j 02:24	22° \mathbb{H} 15'23	
opposition	-2603 Sep 10 j 07:59	26° \approx 21'19 -0°51'37					
min. Earth dist.	-2603 Sep 09 j 20:50	26° \approx 22'28 18.85216 AU		conjunction	-2596 Apr 04 j 17:45	23° \mathbb{H} 12'59 -0°39'37	
direct	-2603 Nov 23 j 21:49	24° \approx 23'47		minimum elong	-2596 Apr 04 j 17:45	23° \mathbb{H} 12'59 0°39'37	
evening set	-2602 Feb 21 j 23:39	27° \approx 24'37		max. Earth dist.	-2596 Apr 04 j 17:21	23° \mathbb{H} 12'56 20.47649 AU	
				morning rise	-2596 Apr 21 j 11:16	24° \mathbb{H} 10'57	
conjunction	-2602 Mar 10 j 09:08	28° \approx 20'32 -0°46'30		retrograde	-2596 Jul 24 j 22:05	27° \mathbb{H} 23'17	
minimum elong	-2602 Mar 10 j 09:08	28° \approx 20'32 0°46'31		opposition	-2596 Oct 08 j 17:01	25° \mathbb{H} 21'56 -0°42'50	
max. Earth dist.	-2602 Mar 10 j 20:49	28° \approx 22'13 20.82802 AU		min. Earth dist.	-2596 Oct 08 j 18:20	25° \mathbb{H} 21'47 18.44406 AU	
morning rise	-2602 Mar 26 j 22:05	29° \approx 16'58		direct	-2596 Dec 22 j 05:20	23° \mathbb{H} 21'53	
	-2602 Apr 09 j 02:47	0° \mathbb{H}		evening set	-2595 Mar 23 j 17:52	26° \mathbb{H} 29'10	
retrograde	-2602 Jun 29 j 17:58	2° \mathbb{H} 26'28					
opposition	-2602 Sep 14 j 15:12	0° \mathbb{H} 26'08 -0°51'09		conjunction	-2595 Apr 09 j 09:52	27° \mathbb{H} 27'04 -0°37'40	
min. Earth dist.	-2602 Sep 14 j 06:04	0° \mathbb{H} 27'05 18.80312 AU		minimum elong	-2595 Apr 09 j 09:52	27° \mathbb{H} 27'04 0°37'40	
	-2602 Sep 25 j 06:03	30° \mathbb{R} \approx		max. Earth dist.	-2595 Apr 09 j 06:19	27° \mathbb{H} 26'33 20.41157 AU	
direct	-2602 Nov 28 j 03:42	28° \approx 28'19		morning rise	-2595 Apr 26 j 04:04	28° \mathbb{H} 25'19	
	-2601 Jan 28 j 10:50	0° \mathbb{H}			-2595 May 26 j 03:58	0° \mathbb{Y}	
evening set	-2601 Feb 26 j 10:09	1° \mathbb{H} 29'51		retrograde	-2595 Jul 29 j 11:47	1° \mathbb{Y} 38'14	
					-2595 Oct 03 j 22:04	30° \mathbb{R} \mathbb{H}	
conjunction	-2601 Mar 14 j 20:36	2° \mathbb{H} 26'02 -0°45'56		opposition	-2595 Oct 13 j 02:59	29° \mathbb{H} 36'45 -0°40'34	
minimum elong	-2601 Mar 14 j 20:36	2° \mathbb{H} 26'02 0°45'58		min. Earth dist.	-2595 Oct 13 j 06:14	29° \mathbb{H} 36'24 18.37881 AU	
max. Earth dist.	-2601 Mar 15 j 05:20	2° \mathbb{H} 27'17 20.77698 AU		direct	-2595 Dec 26 j 15:01	27° \mathbb{H} 36'21	
morning rise	-2601 Mar 31 j 10:36	3° \mathbb{H} 22'42			-2594 Mar 14 j 23:02	0° \mathbb{Y}	
retrograde	-2601 Jul 04 j 06:00	6° \mathbb{H} 32'37		evening set	-2594 Mar 28 j 10:08	0° \mathbb{Y} 44'49	
opposition	-2601 Sep 18 j 22:40	4° \mathbb{H} 32'06 -0°50'25					
min. Earth dist.	-2601 Sep 18 j 15:20	4° \mathbb{H} 32'51 18.74999 AU		conjunction	-2594 Apr 14 j 03:05	1° \mathbb{Y} 43'02 -0°35'29	
direct	-2601 Dec 02 j 11:10	2° \mathbb{H} 33'55		minimum elong	-2594 Apr 14 j 03:05	1° \mathbb{Y} 43'02 0°35'29	
evening set	-2600 Mar 01 j 21:27	5° \mathbb{H} 36'16		max. Earth dist.	-2594 Apr 13 j 22:40	1° \mathbb{Y} 42'24 20.34601 AU	
				morning rise	-2594 Apr 30 j 21:36	2° \mathbb{Y} 41'33	
conjunction	-2600 Mar 18 j 09:03	6° \mathbb{H} 32'43 -0°45'08		retrograde	-2594 Aug 03 j 03:34	5° \mathbb{Y} 55'04	
minimum elong	-2600 Mar 18 j 09:03	6° \mathbb{H} 32'43 0°45'10		opposition	-2594 Oct 17 j 13:30	3° \mathbb{Y} 53'31 -0°38'03	
max. Earth dist.	-2600 Mar 18 j 16:34	6° \mathbb{H} 33'47 20.72194 AU		min. Earth dist.	-2594 Oct 17 j 18:05	3° \mathbb{Y} 53'01 18.31293 AU	
morning rise	-2600 Apr 03 j 23:44	7° \mathbb{H} 29'37		direct	-2594 Dec 31 j 02:31	1° \mathbb{Y} 52'47	
retrograde	-2600 Jul 07 j 17:17	10° \mathbb{H} 39'57		evening set	-2593 Apr 02 j 03:33	5° \mathbb{Y} 02'28	
opposition	-2600 Sep 22 j 06:16	8° \mathbb{H} 39'15 -0°49'25					
min. Earth dist.	-2600 Sep 22 j 00:52	8° \mathbb{H} 39'49 18.69319 AU		conjunction	-2593 Apr 18 j 21:03	6° \mathbb{Y} 01'01 -0°33'06	
direct	-2600 Dec 05 j 18:23	6° \mathbb{H} 40'43		minimum elong	-2593 Apr 18 j 21:04	6° \mathbb{Y} 01'01 0°33'07	
evening set	-2599 Mar 06 j 09:35	9° \mathbb{H} 43'55		max. Earth dist.	-2593 Apr 18 j 13:23	5° \mathbb{Y} 59'53 20.27996 AU	
				morning rise	-2593 May 05 j 16:11	6° \mathbb{Y} 59'48	
conjunction	-2599 Mar 22 j 22:02	10° \mathbb{H} 40'38 -0°44'06		retrograde	-2593 Aug 07 j 18:36	10° \mathbb{Y} 13'56	
minimum elong	-2599 Mar 22 j 22:02	10° \mathbb{H} 40'38 0°44'07		opposition	-2593 Oct 22 j 00:46	8° \mathbb{Y} 12'18 -0°35'18	
max. Earth dist.	-2599 Mar 23 j 02:33	10° \mathbb{H} 41'17 20.66376 AU		min. Earth dist.	-2593 Oct 22 j 07:38	8° \mathbb{Y} 11'35 18.24660 AU	
morning rise	-2599 Apr 08 j 13:40	11° \mathbb{H} 37'48		direct	-2592 Jan 04 j 14:15	6° \mathbb{Y} 11'14	
retrograde	-2599 Jul 12 j 05:44	14° \mathbb{H} 48'35		evening set	-2592 Apr 05 j 21:59	9° \mathbb{Y} 22'12	
opposition	-2599 Sep 26 j 14:20	12° \mathbb{H} 47'42 -0°48'09					
min. Earth dist.	-2599 Sep 26 j 10:44	12° \mathbb{H} 48'05 18.63368 AU		conjunction	-2592 Apr 22 j 16:17	10° \mathbb{Y} 21'04 -0°30'31	
direct	-2599 Dec 10 j 02:09	10° \mathbb{H} 48'46		minimum elong	-2592 Apr 22 j 16:17	10° \mathbb{Y} 21'04 0°30'29	
evening set	-2598 Mar 10 j 22:12	13° \mathbb{H} 52'54		max. Earth dist.	-2592 Apr 22 j 07:33	10° \mathbb{Y} 19'47 20.21325 AU	
				morning rise	-2592 May 09 j 11:33	11° \mathbb{Y} 20'08	
conjunction	-2598 Mar 27 j 11:43	14° \mathbb{H} 49'54 -0°42'50		retrograde	-2592 Aug 11 j 11:25	14° \mathbb{Y} 34'52	
minimum elong	-2598 Mar 27 j 11:43	14° \mathbb{H} 49'54 0°42'52		opposition	-2592 Oct 25 j 12:37	12° \mathbb{Y} 33'12 -0°32'19	

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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.

min. Earth dist.	-2592 Oct 25 j 20:53	12° Υ 32'19	18.17948 AU	min. Earth dist.	-2586 Nov 21 j 22:27	9° \mathcal{B} 17'28	17.77073 AU
direct	-2591 Jan 08 j 03:36	10° Υ 31'47		direct	-2585 Feb 04 j 06:51	7° \mathcal{B} 15'32	
evening set	-2591 Apr 10 j 17:36	13° Υ 44'04		evening set	-2585 May 09 j 09:38	10° \mathcal{B} 35'34	
				max. Earth dist.	-2585 May 25 j 05:51	11° \mathcal{B} 32'47	19.73840 AU
conjunction	-2591 Apr 27 j 12:15	14° Υ 43'14	-0°27'43	conjunction	-2585 May 26 j 05:51	11° \mathcal{B} 36'25	-0°07'43
minimum elong	-2591 Apr 27 j 12:16	14° Υ 43'14	0°27'43	minimum elong	-2585 May 26 j 05:51	11° \mathcal{B} 36'25	0°07'40
max. Earth dist.	-2591 Apr 27 j 00:03	14° Υ 41'26	20.14578 AU	behind sun begin	-2585 May 25 j 23:44	11° \mathcal{B} 35'31	
morning rise	-2591 May 14 j 07:54	15° Υ 42'34		behind sun end	-2585 May 26 j 11:58	11° \mathcal{B} 37'19	
retrograde	-2591 Aug 16 j 03:41	18° Υ 57'56		morning rise	-2585 Jun 12 j 00:50	12° \mathcal{B} 37'08	
opposition	-2591 Oct 30 j 01:25	16° Υ 56'11	-0°29'08		-2585 Jul 28 j 21:26	15° \mathcal{B}	
min. Earth dist.	-2591 Oct 30 j 12:10	16° Υ 55'02	18.11170 AU	retrograde	-2585 Sep 12 j 21:39	15° \mathcal{B} 55'44	
direct	-2590 Jan 12 j 17:22	14° Υ 54'23			-2585 Oct 29 j 20:23	15° \mathcal{R} \mathcal{B}	
evening set	-2590 Apr 15 j 13:51	18° Υ 07'59		opposition	-2585 Nov 25 j 21:08	13° \mathcal{B} 53'16	-0°06'29
				min. Earth dist.	-2585 Nov 26 j 17:52	13° \mathcal{B} 51'00	17.70689 AU
conjunction	-2590 May 02 j 09:10	19° Υ 07'28	-0°24'45	direct	-2584 Feb 09 j 01:04	11° \mathcal{B} 48'52	
minimum elong	-2590 May 02 j 09:10	19° Υ 07'28	0°24'43		-2584 May 10 j 14:09	15° \mathcal{B}	
max. Earth dist.	-2590 May 01 j 19:47	19° Υ 05'29	20.07756 AU	evening set	-2584 May 13 j 11:02	15° \mathcal{B} 10'10	
morning rise	-2590 May 19 j 04:49	20° Υ 07'03		max. Earth dist.	-2584 May 29 j 06:11	16° \mathcal{B} 07'26	19.67606 AU
retrograde	-2590 Aug 20 j 21:52	23° Υ 23'01					
opposition	-2590 Nov 03 j 14:54	21° Υ 21'11	-0°25'44	conjunction	-2584 May 30 j 07:09	16° \mathcal{B} 11'14	-0°04'02
min. Earth dist.	-2590 Nov 04 j 02:52	21° Υ 19'54	18.04306 AU	minimum elong	-2584 May 30 j 07:08	16° \mathcal{B} 11'14	0°03'59
direct	-2589 Jan 17 j 08:59	19° Υ 19'00		behind sun begin	-2584 May 30 j 00:26	16° \mathcal{B} 10'14	
evening set	-2589 Apr 20 j 11:27	22° Υ 33'54		behind sun end	-2584 May 30 j 13:50	16° \mathcal{B} 12'14	
				morning rise	-2584 Jun 16 j 01:40	17° \mathcal{B} 12'08	
conjunction	-2589 May 07 j 07:00	23° Υ 33'40	-0°21'36	retrograde	-2584 Sep 16 j 20:07	20° \mathcal{B} 31'12	
minimum elong	-2589 May 07 j 07:00	23° Υ 33'40	0°21'34	opposition	-2584 Nov 29 j 14:53	18° \mathcal{B} 28'37	-0°02'21
max. Earth dist.	-2589 May 06 j 14:12	23° Υ 31'10	20.00864 AU	min. Earth dist.	-2584 Nov 30 j 11:40	18° \mathcal{B} 26'21	17.64625 AU
morning rise	-2589 May 24 j 02:50	24° Υ 33'30		direct	-2583 Feb 12 j 22:18	16° \mathcal{B} 23'50	
retrograde	-2589 Aug 25 j 15:12	27° Υ 50'03		evening set	-2583 May 18 j 13:06	19° \mathcal{B} 46'21	
opposition	-2589 Nov 08 j 05:05	25° Υ 48'05	-0°22'10	max. Earth dist.	-2583 Jun 03 j 06:50	20° \mathcal{B} 43'38	19.61722 AU
min. Earth dist.	-2589 Nov 08 j 19:42	25° Υ 46'31	17.97405 AU				
direct	-2588 Jan 22 j 00:40	23° Υ 45'29		conjunction	-2583 Jun 04 j 08:58	20° \mathcal{B} 47'38	-0°00'14
evening set	-2588 Apr 24 j 09:47	27° Υ 01'41		minimum elong	-2583 Jun 04 j 08:58	20° \mathcal{B} 47'38	0°00'11
max. Earth dist.	-2588 May 10 j 11:44	27° Υ 59'03	19.93959 AU	behind sun begin	-2583 Jun 04 j 02:15	20° \mathcal{B} 46'38	
				behind sun end	-2583 Jun 04 j 15:41	20° \mathcal{B} 48'38	
conjunction	-2588 May 11 j 05:48	28° Υ 01'45	-0°18'18	morning rise	-2583 Jun 21 j 02:53	21° \mathcal{B} 48'41	
minimum elong	-2588 May 11 j 05:48	28° Υ 01'45	0°18'17	asc. node	-2583 Jun 26 j 11:51	22° \mathcal{B} 07'45	
morning rise	-2588 May 28 j 01:28	29° Υ 01'49		retrograde	-2583 Sep 21 j 16:15	25° \mathcal{B} 08'12	
	-2588 Jun 14 j 06:14	0° \mathcal{B}		opposition	-2583 Dec 04 j 09:36	23° \mathcal{B} 05'33	0°01'50
retrograde	-2588 Aug 29 j 10:58	2° \mathcal{B} 18'55		min. Earth dist.	-2583 Dec 05 j 08:11	23° \mathcal{B} 03'05	17.58963 AU
opposition	-2588 Nov 11 j 20:00	0° \mathcal{B} 16'50	-0°18'26	direct	-2582 Feb 17 j 18:05	21° \mathcal{B} 00'25	
min. Earth dist.	-2588 Nov 12 j 11:32	0° \mathcal{B} 15'09	17.90508 AU	evening set	-2582 May 23 j 15:40	24° \mathcal{B} 24'06	
	-2588 Nov 18 j 08:13	30° \mathcal{R} Υ		max. Earth dist.	-2582 Jun 08 j 08:05	25° \mathcal{B} 21'25	19.56282 AU
direct	-2587 Jan 25 j 18:22	28° Υ 13'47					
	-2587 Apr 01 j 12:05	0° \mathcal{B}		conjunction	-2582 Jun 09 j 11:11	25° \mathcal{B} 25'35	0°03'37
evening set	-2587 Apr 29 j 08:58	1° \mathcal{B} 31'17		minimum elong	-2582 Jun 09 j 11:11	25° \mathcal{B} 25'35	0°03'41
max. Earth dist.	-2587 May 15 j 08:11	2° \mathcal{B} 28'29	19.87093 AU	behind sun begin	-2582 Jun 09 j 04:28	25° \mathcal{B} 24'34	
				behind sun end	-2582 Jun 09 j 17:54	25° \mathcal{B} 26'35	
conjunction	-2587 May 16 j 05:02	2° \mathcal{B} 31'37	-0°14'52	morning rise	-2582 Jun 26 j 04:34	26° \mathcal{B} 26'47	
minimum elong	-2587 May 16 j 05:02	2° \mathcal{B} 31'37	0°14'50	retrograde	-2582 Sep 26 j 15:31	29° \mathcal{B} 46'44	
behind sun begin	-2587 May 16 j 02:42	2° \mathcal{B} 31'16		opposition	-2582 Dec 09 j 04:56	27° \mathcal{B} 44'03	0°06'01
behind sun end	-2587 May 16 j 07:21	2° \mathcal{B} 31'57		min. Earth dist.	-2582 Dec 10 j 03:15	27° \mathcal{B} 41'36	17.53752 AU
morning rise	-2587 Jun 02 j 00:36	3° \mathcal{B} 31'55		direct	-2581 Feb 22 j 16:44	25° \mathcal{B} 38'37	
retrograde	-2587 Sep 03 j 05:12	6° \mathcal{B} 49'32		evening set	-2581 May 28 j 18:59	29° \mathcal{B} 03'27	
opposition	-2587 Nov 16 j 11:44	4° \mathcal{B} 47'19	-0°14'33	max. Earth dist.	-2581 Jun 13 j 10:38	0° \mathcal{B} 00'52	19.51300 AU
min. Earth dist.	-2587 Nov 17 j 05:43	4° \mathcal{B} 45'23	17.83706 AU		-2581 Jun 13 j 05:01	0° \mathcal{B}	
direct	-2586 Jan 30 j 11:17	2° \mathcal{B} 43'49					
evening set	-2586 May 04 j 08:51	6° \mathcal{B} 02'36		conjunction	-2581 Jun 14 j 14:08	0° \mathcal{B} 05'06	0°07'21
max. Earth dist.	-2586 May 20 j 07:15	6° \mathcal{B} 59'53	19.80367 AU	minimum elong	-2581 Jun 14 j 14:07	0° \mathcal{B} 05'06	0°07'24
				behind sun begin	-2581 Jun 14 j 07:57	0° \mathcal{B} 04'10	
conjunction	-2586 May 21 j 05:08	7° \mathcal{B} 03'12	-0°11'20	behind sun end	-2581 Jun 14 j 20:18	0° \mathcal{B} 06'02	
minimum elong	-2586 May 21 j 05:07	7° \mathcal{B} 03'11	0°11'18	morning rise	-2581 Jul 01 j 06:38	1° \mathcal{B} 06'25	
behind sun begin	-2586 May 21 j 00:14	7° \mathcal{B} 02'28		retrograde	-2581 Oct 01 j 12:51	4° \mathcal{B} 26'47	
behind sun end	-2586 May 21 j 10:00	7° \mathcal{B} 03'55		opposition	-2581 Dec 14 j 01:08	2° \mathcal{B} 24'08	0°10'12
morning rise	-2586 Jun 07 j 00:26	8° \mathcal{B} 03'42		min. Earth dist.	-2581 Dec 15 j 01:01	2° \mathcal{B} 21'31	17.49022 AU
retrograde	-2586 Sep 08 j 02:36	11° \mathcal{B} 21'50		direct	-2580 Feb 27 j 14:12	0° \mathcal{B} 18'27	
opposition	-2586 Nov 21 j 03:56	9° \mathcal{B} 19'29	-0°10'34				

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

evening set	-2580 Jun 01 j 22:54	3°II44'25		evening set	-2574 Jul 02 j 04:58	2°III7'01	
conjunction	-2580 Jun 18 j 17:23	4°II46'11	0°11'04	conjunction	-2574 Jul 18 j 18:07	3°III19'02	0°31'21
minimum elong	-2580 Jun 18 j 17:23	4°II46'11	0°11'08	minimum elong	-2574 Jul 18 j 18:06	3°III19'02	0°31'25
behind sun begin	-2580 Jun 18 j 12:25	4°II45'26		max. Earth dist.	-2574 Jul 17 j 12:14	3°III14'20	19.29656 AU
behind sun end	-2580 Jun 18 j 22:21	4°II46'56		morning rise	-2574 Aug 04 j 03:23	4°III20'29	
max. Earth dist.	-2580 Jun 17 j 12:46	4°II41'46	19.46824 AU	retrograde	-2574 Nov 03 j 12:09	7°III42'40	
morning rise	-2580 Jul 05 j 09:12	5°II47'36		opposition	-2573 Jan 15 j 18:34	5°III40'27	0°36'30
retrograde	-2580 Oct 05 j 12:59	9°II08'22		min. Earth dist.	-2573 Jan 16 j 19:48	5°III37'42	17.29023 AU
opposition	-2580 Dec 17 j 22:04	7°II05'46	0°14'20	direct	-2573 Apr 02 j 04:03	3°III33'49	
min. Earth dist.	-2580 Dec 18 j 21:35	7°II03'11	17.44794 AU	evening set	-2573 Jul 07 j 10:04	7°III04'57	
direct	-2579 Mar 03 j 14:19	4°II59'54		conjunction	-2573 Jul 23 j 22:12	8°III06'54	0°34'07
evening set	-2579 Jun 07 j 03:02	8°II26'54		minimum elong	-2573 Jul 23 j 22:12	8°III06'54	0°34'11
conjunction	-2579 Jun 23 j 20:59	9°II28'48	0°14'44	max. Earth dist.	-2573 Jul 22 j 17:51	8°III02'26	19.28417 AU
minimum elong	-2579 Jun 23 j 20:59	9°II28'48	0°14'48	morning rise	-2573 Aug 09 j 06:06	9°III08'17	
behind sun begin	-2579 Jun 23 j 18:32	9°II28'26		retrograde	-2573 Nov 08 j 12:57	12°III30'27	
behind sun end	-2579 Jun 23 j 23:26	9°II29'10		opposition	-2572 Jan 20 j 19:51	10°III28'17	0°39'28
max. Earth dist.	-2579 Jun 22 j 16:46	9°II24'25	19.42829 AU	min. Earth dist.	-2572 Jan 21 j 20:26	10°III25'36	17.28035 AU
morning rise	-2579 Jul 10 j 11:43	10°II30'17		direct	-2572 Apr 06 j 07:48	8°III21'36	
retrograde	-2579 Oct 10 j 11:27	13°II51'25		evening set	-2572 Jul 11 j 15:03	11°III52'57	
opposition	-2579 Dec 22 j 19:54	11°II48'54	0°18'23	max. Earth dist.	-2572 Jul 26 j 21:28	12°III50'20	19.27706 AU
min. Earth dist.	-2579 Dec 23 j 20:41	11°II46'11	17.41041 AU	conjunction	-2572 Jul 28 j 01:51	12°III54'49	0°36'39
direct	-2578 Mar 08 j 13:54	9°II42'53		minimum elong	-2572 Jul 28 j 01:51	12°III54'49	0°36'44
evening set	-2578 Jun 12 j 07:53	13°II10'51		morning rise	-2572 Aug 13 j 08:34	13°III56'05	
max. Earth dist.	-2578 Jun 27 j 19:19	14°II08'13	19.39310 AU	retrograde	-2572 Nov 12 j 13:40	17°III18'14	
conjunction	-2578 Jun 29 j 00:55	14°II12'49	0°18'20	opposition	-2571 Jan 24 j 21:31	15°III16'04	0°42'10
minimum elong	-2578 Jun 29 j 00:55	14°II12'49	0°18'23	min. Earth dist.	-2571 Jan 25 j 21:45	15°III13'26	17.27619 AU
morning rise	-2578 Jul 15 j 14:49	15°II14'22		direct	-2571 Apr 11 j 11:31	13°III09'19	
retrograde	-2578 Oct 15 j 11:37	18°II35'50		evening set	-2571 Jul 16 j 19:18	16°III40'47	
opposition	-2578 Dec 27 j 18:12	16°II33'23	0°22'21	max. Earth dist.	-2571 Aug 01 j 02:28	17°III38'20	19.27583 AU
min. Earth dist.	-2578 Dec 28 j 18:49	16°II30'41	17.37754 AU	conjunction	-2571 Aug 02 j 04:59	17°III42'32	0°38'55
direct	-2577 Mar 13 j 15:34	14°II27'13		minimum elong	-2571 Aug 02 j 04:59	17°III42'32	0°38'59
evening set	-2577 Jun 17 j 12:58	17°II56'04		morning rise	-2571 Aug 18 j 10:25	18°III43'40	
max. Earth dist.	-2577 Jul 03 j 00:26	18°II53'35	19.36231 AU	retrograde	-2571 Nov 17 j 14:14	22°III05'43	
conjunction	-2577 Jul 04 j 05:19	18°II58'06	0°21'49	opposition	-2570 Jan 29 j 23:21	20°III03'36	0°44'33
minimum elong	-2577 Jul 04 j 05:19	18°II58'06	0°21'54	min. Earth dist.	-2570 Jan 30 j 22:04	20°III01'07	17.27788 AU
morning rise	-2577 Jul 20 j 17:58	19°II59'39		direct	-2570 Apr 16 j 15:48	17°III56'51	
retrograde	-2577 Oct 20 j 11:09	23°II21'23		evening set	-2570 Jul 21 j 23:22	21°III28'17	
opposition	-2576 Jan 01 j 17:31	21°II19'01	0°26'10	max. Earth dist.	-2570 Aug 06 j 06:06	22°III25'50	19.28065 AU
min. Earth dist.	-2576 Jan 02 j 18:58	21°II16'14	17.34894 AU	conjunction	-2570 Aug 07 j 07:44	22°III29'53	0°40'55
direct	-2576 Mar 17 j 17:44	19°II12'44		minimum elong	-2570 Aug 07 j 07:44	22°III29'53	0°40'59
evening set	-2576 Jun 21 j 18:19	22°II42'19		morning rise	-2570 Aug 23 j 11:52	23°III30'51	
max. Earth dist.	-2576 Jul 07 j 03:20	23°II39'39	19.33588 AU	retrograde	-2570 Nov 22 j 13:56	26°III52'46	
conjunction	-2576 Jul 08 j 09:31	23°II44'23	0°25'10	opposition	-2569 Feb 04 j 01:23	24°III50'41	0°46'38
minimum elong	-2576 Jul 08 j 09:31	23°II44'23	0°25'14	min. Earth dist.	-2569 Feb 04 j 23:37	24°III48'16	17.28600 AU
morning rise	-2576 Jul 24 j 21:11	24°II45'56		direct	-2569 Apr 21 j 19:36	22°III43'59	
retrograde	-2576 Oct 24 j 11:18	28°II07'53		evening set	-2569 Jul 27 j 02:53	26°III15'18	
opposition	-2575 Jan 05 j 17:21	26°II05'34	0°29'50	max. Earth dist.	-2569 Aug 11 j 10:11	27°III12'57	19.29210 AU
min. Earth dist.	-2575 Jan 06 j 18:34	26°II02'49	17.32479 AU	conjunction	-2569 Aug 12 j 09:57	27°III16'43	0°42'38
direct	-2575 Mar 22 j 21:00	23°II59'09		minimum elong	-2569 Aug 12 j 09:57	27°III16'43	0°42'42
evening set	-2575 Jun 26 j 23:36	27°II29'23		morning rise	-2569 Aug 28 j 12:51	28°III17'30	
max. Earth dist.	-2575 Jul 12 j 08:58	28°II26'53	19.31390 AU	retrograde	-2569 Sep 27 j 13:02	0°II	
conjunction	-2575 Jul 13 j 13:58	28°II31'27	0°28'21	opposition	-2569 Nov 27 j 14:09	1°II39'14	
minimum elong	-2575 Jul 13 j 13:57	28°II31'27	0°28'25	min. Earth dist.	-2568 Jan 31 j 07:54	30°RIII	
morning rise	-2575 Jul 30 j 00:18	29°II32'57		opposition	-2568 Feb 09 j 03:38	29°III37'14	0°48'23
retrograde	-2575 Aug 06 j 11:08	0°III		min. Earth dist.	-2568 Feb 09 j 23:32	29°III35'05	17.30069 AU
opposition	-2575 Oct 29 j 11:33	2°III55'02		direct	-2568 Apr 26 j 00:54	27°III30'39	
min. Earth dist.	-2574 Jan 10 j 17:44	0°III52'48	0°33'17	evening set	-2568 Jul 13 j 22:05	0°II	
direct	-2574 Jan 11 j 19:08	0°III50'01	17.30509 AU	conjunction	-2568 Jul 31 j 05:42	1°II01'43	
retrograde	-2574 Jan 31 j 12:34	30°RII		minimum elong	-2568 Aug 16 j 11:29	2°II02'56	0°44'04
opposition	-2574 Mar 28 j 00:22	28°II46'17		morning rise	-2568 Aug 16 j 11:29	2°II02'56	0°44'06
min. Earth dist.	-2574 May 20 j 19:25	0°III					

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

max. Earth dist.	-2568 Aug 15 j 13:37	1°Ω59'28	19.31016 AU	morning rise	-2562 Sep 30 j 02:11	1°♊21'24	
morning rise	-2568 Sep 01 j 13:03	3°Ω03'31		retrograde	-2562 Dec 30 j 04:13	4°♊40'51	
retrograde	-2568 Dec 01 j 12:49	6°Ω25'03		opposition	-2561 Mar 14 j 19:15	2°♊39'58	0°50'59
opposition	-2567 Feb 13 j 06:06	4°Ω23'10	0°49'48	min. Earth dist.	-2561 Mar 15 j 04:05	2°♊39'02	17.56283 AU
min. Earth dist.	-2567 Feb 14 j 01:18	4°Ω21'05	17.32213 AU	direct	-2561 May 31 j 01:24	0°♊35'27	
direct	-2567 May 01 j 04:46	2°Ω16'46		evening set	-2561 Sep 03 j 06:29	4°♊01'48	
evening set	-2567 Aug 05 j 08:00	5°Ω47'28					
				conjunction	-2561 Sep 19 j 03:42	5°♊01'09	0°45'22
conjunction	-2567 Aug 21 j 12:27	6°Ω48'28	0°45'11	minimum elong	-2561 Sep 19 j 03:42	5°♊01'09	0°45'23
minimum elong	-2567 Aug 21 j 12:27	6°Ω48'28	0°45'14	max. Earth dist.	-2561 Sep 18 j 18:49	4°♊59'46	19.58895 AU
max. Earth dist.	-2567 Aug 20 j 16:14	6°Ω45'16	19.33495 AU	morning rise	-2561 Oct 04 j 21:59	6°♊00'04	
morning rise	-2567 Sep 06 j 12:56	7°Ω48'51		retrograde	-2560 Jan 04 j 02:04	9°♊19'02	
retrograde	-2567 Dec 06 j 12:42	11°Ω10'08		opposition	-2560 Mar 18 j 20:39	7°♊18'16	0°49'58
opposition	-2566 Feb 18 j 08:17	9°Ω08'23	0°50'52	min. Earth dist.	-2560 Mar 19 j 02:56	7°♊17'36	17.61594 AU
min. Earth dist.	-2566 Feb 19 j 00:52	9°Ω06'36	17.34994 AU	direct	-2560 Jun 04 j 03:19	5°♊14'06	
direct	-2566 May 06 j 09:56	7°Ω02'14		evening set	-2560 Sep 07 j 02:58	8°♊39'23	
evening set	-2566 Aug 10 j 09:37	10°Ω32'29					
				conjunction	-2560 Sep 22 j 23:22	9°♊38'26	0°44'19
conjunction	-2566 Aug 26 j 12:55	11°Ω33'14	0°45'59	minimum elong	-2560 Sep 22 j 23:22	9°♊38'26	0°44'21
minimum elong	-2566 Aug 26 j 12:55	11°Ω33'14	0°46'02	max. Earth dist.	-2560 Sep 22 j 17:38	9°♊37'32	19.64335 AU
max. Earth dist.	-2566 Aug 25 j 19:06	11°Ω30'26	19.36576 AU	morning rise	-2560 Oct 08 j 16:42	10°♊37'03	
morning rise	-2566 Sep 11 j 12:06	12°Ω33'25		retrograde	-2559 Jan 07 j 22:19	13°♊55'31	
	-2566 Oct 27 j 22:46	15°Ω		opposition	-2559 Mar 23 j 21:38	11°♊54'51	0°48'39
retrograde	-2566 Dec 11 j 10:56	15°Ω54'24		min. Earth dist.	-2559 Mar 24 j 02:32	11°♊54'20	17.67146 AU
	-2565 Jan 26 j 18:44	15°♊Ω		direct	-2559 Jun 09 j 04:20	9°♊51'02	
opposition	-2565 Feb 23 j 10:48	13°Ω52'50	0°51'36	evening set	-2559 Sep 11 j 22:42	13°♊15'10	
min. Earth dist.	-2565 Feb 24 j 02:44	13°Ω51'08	17.38356 AU				
direct	-2565 May 11 j 13:09	11°Ω46'59		conjunction	-2559 Sep 27 j 17:59	14°♊13'54	0°43'00
	-2565 Aug 10 j 21:32	15°Ω		minimum elong	-2559 Sep 27 j 17:59	14°♊13'54	0°43'01
evening set	-2565 Aug 15 j 10:37	15°Ω16'40		max. Earth dist.	-2559 Sep 27 j 13:13	14°♊13'09	19.70014 AU
				morning rise	-2559 Oct 13 j 10:47	15°♊12'16	
conjunction	-2565 Aug 31 j 12:30	16°Ω17'09	0°46'29	retrograde	-2558 Jan 12 j 18:21	18°♊30'09	
minimum elong	-2565 Aug 31 j 12:30	16°Ω17'09	0°46'33	opposition	-2558 Mar 28 j 21:48	16°♊29'34	0°47'01
max. Earth dist.	-2565 Aug 30 j 20:00	16°Ω14'33	19.40211 AU	min. Earth dist.	-2558 Mar 29 j 00:25	16°♊29'18	17.72943 AU
morning rise	-2565 Sep 16 j 10:41	17°Ω17'05		direct	-2558 Jun 14 j 04:18	14°♊26'05	
retrograde	-2565 Dec 16 j 10:41	20°Ω37'46		evening set	-2558 Sep 16 j 17:13	17°♊49'00	
opposition	-2564 Feb 28 j 13:08	18°Ω36'23	0°51'58				
min. Earth dist.	-2564 Feb 29 j 02:19	18°Ω34'58	17.42231 AU	conjunction	-2558 Oct 02 j 11:48	18°♊47'26	0°41'25
direct	-2564 May 15 j 17:55	16°Ω30'50		minimum elong	-2558 Oct 02 j 11:48	18°♊47'26	0°41'26
evening set	-2564 Aug 19 j 10:47	19°Ω59'50		max. Earth dist.	-2558 Oct 02 j 10:16	18°♊47'12	19.75930 AU
				morning rise	-2558 Oct 18 j 03:49	19°♊45'31	
conjunction	-2564 Sep 04 j 11:35	21°Ω00'04	0°46'40	retrograde	-2557 Jan 17 j 13:44	23°♊02'49	
minimum elong	-2564 Sep 04 j 11:35	21°Ω00'04	0°46'44	opposition	-2557 Apr 02 j 21:38	21°♊02'19	0°45'06
max. Earth dist.	-2564 Sep 03 j 21:54	20°Ω57'55	19.44319 AU	min. Earth dist.	-2557 Apr 02 j 22:19	21°♊02'14	17.78966 AU
morning rise	-2564 Sep 20 j 08:32	21°Ω59'45		direct	-2557 Jun 19 j 04:57	18°♊59'10	
retrograde	-2564 Dec 20 j 08:17	25°Ω20'04		evening set	-2557 Sep 21 j 10:44	22°♊20'50	
opposition	-2563 Mar 04 j 15:29	23°Ω18'52	0°51'59				
min. Earth dist.	-2563 Mar 05 j 03:55	23°Ω17'32	17.46555 AU	conjunction	-2557 Oct 07 j 04:19	23°♊18'56	0°39'36
direct	-2563 May 20 j 20:12	21°Ω13'40		minimum elong	-2557 Oct 07 j 04:19	23°♊18'56	0°39'37
evening set	-2563 Aug 24 j 10:11	24°Ω41'52		max. Earth dist.	-2557 Oct 07 j 04:11	23°♊18'55	19.82082 AU
				morning rise	-2557 Oct 22 j 19:56	24°♊16'45	
conjunction	-2563 Sep 09 j 09:40	25°Ω41'49	0°46'33	retrograde	-2556 Jan 22 j 07:42	27°♊33'29	
minimum elong	-2563 Sep 09 j 09:40	25°Ω41'49	0°46'35	opposition	-2556 Apr 06 j 20:49	25°♊33'01	0°42'55
max. Earth dist.	-2563 Sep 08 j 20:58	25°Ω39'49	19.48849 AU	min. Earth dist.	-2556 Apr 06 j 19:13	25°♊33'11	17.85253 AU
morning rise	-2563 Sep 25 j 05:48	26°Ω41'15		direct	-2556 Jun 23 j 03:22	23°♊30'14	
	-2563 Dec 18 j 21:05	0°♊		evening set	-2556 Sep 25 j 03:07	26°♊50'36	
retrograde	-2563 Dec 25 j 07:25	0°♊01'10					
	-2563 Dec 31 j 19:32	30°♊Ω		conjunction	-2556 Oct 10 j 20:07	27°♊48'24	0°37'33
opposition	-2562 Mar 09 j 17:28	28°Ω00'07	0°51'39	minimum elong	-2556 Oct 10 j 20:07	27°♊48'24	0°37'32
min. Earth dist.	-2562 Mar 10 j 03:15	27°Ω59'04	17.51262 AU	max. Earth dist.	-2556 Oct 10 j 23:19	27°♊48'54	19.88496 AU
direct	-2562 May 25 j 23:44	25°Ω55'15		morning rise	-2556 Oct 26 j 11:08	28°♊45'56	
evening set	-2562 Aug 29 j 08:42	29°Ω22'35			-2556 Nov 17 j 01:24	0°♊	
	-2562 Sep 08 j 09:40	0°♊		retrograde	-2555 Jan 26 j 01:55	2°♊02'03	
				opposition	-2555 Apr 11 j 19:10	0°♊01'41	0°40'30
conjunction	-2562 Sep 14 j 07:12	0°♊22'14	0°46'06	min. Earth dist.	-2555 Apr 11 j 15:06	0°♊02'06	17.91787 AU
minimum elong	-2562 Sep 14 j 07:12	0°♊22'14	0°46'09		-2555 Apr 12 j 11:25	30°♊♊	
max. Earth dist.	-2562 Sep 13 j 21:27	0°♊20'42	19.53720 AU	direct	-2555 Jun 28 j 02:48	27°♊59'18	

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Attention, astronomical year style is used: The year -2555 in astronomical counting style is the year 2556 BCE in historical counting style.

	-2555 Sep 06 j 17:35	0°♊			-2549 Dec 08 j 08:33	0°♋	
evening set	-2555 Sep 29 j 18:39	1°♊18'21		retrograde	-2548 Feb 26 j 10:43	2°♋29'53	
				opposition	-2548 May 13 j 12:51	0°♋30'26	0°18'25
conjunction	-2555 Oct 15 j 10:51	2°♊15'51	0°35'17	min. Earth dist.	-2548 May 12 j 20:02	0°♋32'08	18.40738 AU
minimum elong	-2555 Oct 15 j 10:51	2°♊15'51	0°35'17		-2548 May 26 j 05:03	30°♋♊	
max. Earth dist.	-2555 Oct 15 j 15:34	2°♊16'34	19.95155 AU	direct	-2548 Jul 29 j 10:08	28°♊31'06	
morning rise	-2555 Oct 31 j 01:37	3°♊13'07			-2548 Sep 27 j 15:32	0°♋	
retrograde	-2554 Jan 30 j 17:58	6°♊28'39		evening set	-2548 Oct 29 j 06:39	1°♋41'09	
opposition	-2554 Apr 16 j 16:55	4°♊28'23	0°37'51				
min. Earth dist.	-2554 Apr 16 j 10:52	4°♊29'00	17.98566 AU	conjunction	-2548 Nov 13 j 20:25	2°♋36'44	0°15'01
direct	-2554 Jul 02 j 23:04	2°♊26'24		minimum elong	-2548 Nov 13 j 20:26	2°♋36'44	0°14'59
evening set	-2554 Oct 04 j 09:04	5°♊44'10		behind sun begin	-2548 Nov 13 j 17:47	2°♋36'21	
				behind sun end	-2548 Nov 13 j 23:05	2°♋37'07	
conjunction	-2554 Oct 20 j 00:48	6°♊41'21	0°32'49	max. Earth dist.	-2548 Nov 14 j 14:40	2°♋39'28	20.44066 AU
minimum elong	-2554 Oct 20 j 00:48	6°♊41'21	0°32'48	morning rise	-2548 Nov 29 j 10:39	3°♋32'24	
max. Earth dist.	-2554 Oct 20 j 08:34	6°♊42'32	20.02037 AU	retrograde	-2547 Mar 02 j 00:40	6°♋44'01	
morning rise	-2554 Nov 04 j 15:07	7°♊38'22		min. Earth dist.	-2547 May 17 j 10:25	4°♋46'35	18.47316 AU
retrograde	-2553 Feb 04 j 10:42	10°♊53'18		opposition	-2547 May 18 j 05:27	4°♋44'40	0°14'47
opposition	-2553 Apr 21 j 13:56	8°♊53'11	0°35'01	direct	-2547 Aug 03 j 02:09	2°♋45'41	
min. Earth dist.	-2553 Apr 21 j 05:10	8°♊54'05	18.05526 AU	evening set	-2547 Nov 02 j 15:44	5°♋54'32	
direct	-2553 Jul 07 j 20:47	6°♊51'40					
evening set	-2553 Oct 08 j 22:45	10°♊08'06		conjunction	-2547 Nov 18 j 05:26	6°♋49'53	0°11'43
				minimum elong	-2547 Nov 18 j 05:25	6°♋49'53	0°11'41
conjunction	-2553 Oct 24 j 13:51	11°♊05'00	0°30'11	behind sun begin	-2547 Nov 18 j 00:43	6°♋49'12	
minimum elong	-2553 Oct 24 j 13:51	11°♊05'00	0°30'11	behind sun end	-2547 Nov 18 j 10:08	6°♋50'34	
max. Earth dist.	-2553 Oct 24 j 23:11	11°♊06'25	20.09076 AU	max. Earth dist.	-2547 Nov 19 j 00:40	6°♋52'45	20.50492 AU
morning rise	-2553 Nov 09 j 04:04	12°♊01'46		morning rise	-2547 Dec 03 j 19:54	7°♋45'23	
retrograde	-2552 Feb 09 j 01:39	15°♊16'09		retrograde	-2546 Mar 06 j 12:05	10°♋56'27	
opposition	-2552 Apr 25 j 10:23	13°♊16'09	0°31'59	opposition	-2546 May 22 j 21:34	8°♋57'09	0°11'05
min. Earth dist.	-2552 Apr 25 j 00:04	13°♊17'12	18.12631 AU	min. Earth dist.	-2546 May 22 j 02:27	8°♋59'05	18.53600 AU
direct	-2552 Jul 11 j 14:45	11°♊15'05		direct	-2546 Aug 07 j 14:57	6°♋58'31	
evening set	-2552 Oct 12 j 11:20	14°♊30'13		evening set	-2546 Nov 06 j 23:57	10°♋06'09	
conjunction	-2552 Oct 28 j 02:08	15°♊26'50	0°27'24	conjunction	-2546 Nov 22 j 13:42	11°♋01'18	0°08'23
minimum elong	-2552 Oct 28 j 02:08	15°♊26'50	0°27'23	minimum elong	-2546 Nov 22 j 13:42	11°♋01'18	0°08'21
max. Earth dist.	-2552 Oct 28 j 14:06	15°♊28'39	20.16217 AU	behind sun begin	-2546 Nov 22 j 07:56	11°♋00'28	
morning rise	-2552 Nov 12 j 16:09	16°♊23'21		behind sun end	-2546 Nov 22 j 19:29	11°♋02'08	
retrograde	-2551 Feb 12 j 17:15	19°♊37'10		max. Earth dist.	-2546 Nov 23 j 10:12	11°♋04'21	20.56623 AU
opposition	-2551 Apr 30 j 05:59	17°♊37'20	0°28'47	morning rise	-2546 Dec 08 j 04:27	11°♋56'37	
min. Earth dist.	-2551 Apr 29 j 17:03	17°♊38'39	18.19776 AU		-2545 Feb 22 j 03:30	15°♋	
direct	-2551 Jul 16 j 10:04	15°♊36'44		retrograde	-2545 Mar 11 j 01:01	15°♋07'11	
evening set	-2551 Oct 16 j 23:20	18°♊50'34			-2545 Mar 28 j 03:12	15°♋♊	
				opposition	-2545 May 27 j 12:48	13°♋07'54	0°07'21
conjunction	-2551 Nov 01 j 13:40	19°♊46'55	0°24'28	min. Earth dist.	-2545 May 26 j 15:31	13°♋10'02	18.59570 AU
minimum elong	-2551 Nov 01 j 13:41	19°♊46'55	0°24'26	direct	-2545 Aug 12 j 05:41	11°♋09'32	
max. Earth dist.	-2551 Nov 02 j 03:02	19°♊48'56	20.23354 AU	evening set	-2545 Nov 11 j 07:37	14°♋16'02	
morning rise	-2551 Nov 17 j 03:42	20°♊43'12			-2545 Nov 23 j 19:16	15°♋	
retrograde	-2550 Feb 17 j 07:04	23°♊56'27					
min. Earth dist.	-2550 May 04 j 11:02	21°♊58'10	18.26898 AU	conjunction	-2545 Nov 26 j 21:24	15°♋10'59	0°05'03
opposition	-2550 May 05 j 00:54	21°♊56'46	0°25'27	minimum elong	-2545 Nov 26 j 21:25	15°♋10'59	0°05'00
direct	-2550 Jul 21 j 02:14	19°♊56'36		behind sun begin	-2545 Nov 26 j 15:04	15°♋10'04	
evening set	-2550 Oct 21 j 10:30	23°♊09'10		behind sun end	-2545 Nov 27 j 03:47	15°♋11'54	
				max. Earth dist.	-2545 Nov 27 j 19:05	15°♋14'11	20.62436 AU
conjunction	-2550 Nov 06 j 00:37	24°♊05'15	0°21'25	morning rise	-2545 Dec 12 j 12:35	16°♋06'09	
minimum elong	-2550 Nov 06 j 00:37	24°♊05'15	0°21'23	retrograde	-2544 Mar 14 j 11:01	19°♋16'12	
max. Earth dist.	-2550 Nov 06 j 16:03	24°♊07'34	20.30432 AU	min. Earth dist.	-2544 May 30 j 06:01	17°♋19'03	18.65250 AU
morning rise	-2550 Nov 21 j 14:34	25°♊01'19		opposition	-2544 May 31 j 03:18	17°♋16'55	0°03'37
retrograde	-2549 Feb 21 j 21:51	28°♊14'01		direct	-2544 Aug 15 j 16:43	15°♋18'49	
opposition	-2549 May 09 j 19:09	26°♊14'28	0°21'59	evening set	-2544 Nov 14 j 14:29	18°♋24'12	
min. Earth dist.	-2549 May 09 j 02:49	26°♊16'07	18.33906 AU				
direct	-2549 Jul 25 j 19:40	24°♊14'44		conjunction	-2544 Nov 30 j 04:32	19°♋18'58	0°01'40
evening set	-2549 Oct 25 j 20:54	27°♊26'02		minimum elong	-2544 Nov 30 j 04:31	19°♋18'58	0°01'36
				behind sun begin	-2544 Nov 29 j 21:59	19°♋18'02	
conjunction	-2549 Nov 10 j 10:44	28°♊21'51	0°18'15	behind sun end	-2544 Nov 30 j 11:03	19°♋19'54	
minimum elong	-2549 Nov 10 j 10:44	28°♊21'51	0°18'13	max. Earth dist.	-2544 Dec 01 j 03:20	19°♋22'20	20.67979 AU
max. Earth dist.	-2549 Nov 11 j 03:26	28°♊24'21	20.37352 AU	morning rise	-2544 Dec 15 j 20:07	20°♋13'59	
morning rise	-2549 Nov 26 j 00:50	29°♊17'43		retrograde	-2543 Mar 18 j 22:42	23°♋23'33	

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Attention, astronomical year style is used: The year -2543 in astronomical counting style is the year 2544 BCE in historical counting style.

desc. node	-2543 May 25 j 11:29	21° \mathbb{M} 48'41		evening set	-2538 Dec 08 j 22:19	12° \mathbb{X} 45'08	
opposition	-2543 Jun 04 j 16:50	21° \mathbb{M} 24'16	-0°00'06				
min. Earth dist.	-2543 Jun 03 j 17:27	21° \mathbb{M} 26'36	18.70658 AU	conjunction	-2538 Dec 24 j 14:37	13° \mathbb{X} 39'12	-0°17'48
direct	-2543 Aug 20 j 05:44	19° \mathbb{M} 26'24		minimum elong	-2538 Dec 24 j 14:37	13° \mathbb{X} 39'12	0°17'52
evening set	-2543 Nov 18 j 20:53	22° \mathbb{M} 30'45		max. Earth dist.	-2538 Dec 25 j 18:42	13° \mathbb{X} 43'16	20.95806 AU
				morning rise	-2537 Jan 09 j 09:53	14° \mathbb{X} 33'42	
conjunction	-2543 Dec 04 j 11:05	23° \mathbb{M} 25'22	-0°01'48	retrograde	-2537 Apr 13 j 08:40	17° \mathbb{X} 41'17	
minimum elong	-2543 Dec 04 j 11:05	23° \mathbb{M} 25'22	0°01'51	min. Earth dist.	-2537 Jun 29 j 08:54	15° \mathbb{X} 44'59	18.97647 AU
behind sun begin	-2543 Dec 04 j 04:33	23° \mathbb{M} 24'26		opposition	-2537 Jun 30 j 12:37	15° \mathbb{X} 42'13	-0°21'21
behind sun end	-2543 Dec 04 j 17:37	23° \mathbb{M} 26'18		direct	-2537 Sep 14 j 10:49	13° \mathbb{X} 45'49	
max. Earth dist.	-2543 Dec 05 j 11:09	23° \mathbb{M} 28'54	20.73248 AU	evening set	-2537 Dec 13 j 02:46	16° \mathbb{X} 45'27	
morning rise	-2543 Dec 20 j 03:09	24° \mathbb{M} 20'15					
retrograde	-2542 Mar 23 j 07:53	27° \mathbb{M} 29'23		conjunction	-2537 Dec 28 j 19:38	17° \mathbb{X} 39'28	-0°20'47
min. Earth dist.	-2542 Jun 08 j 06:23	25° \mathbb{M} 32'26	18.75819 AU	minimum elong	-2537 Dec 28 j 19:38	17° \mathbb{X} 39'28	0°20'51
opposition	-2542 Jun 09 j 05:44	25° \mathbb{M} 30'05	-0°03'48	max. Earth dist.	-2537 Dec 30 j 00:16	17° \mathbb{X} 43'36	20.99311 AU
direct	-2542 Aug 24 j 15:06	23° \mathbb{M} 32'28		morning rise	-2536 Jan 13 j 15:39	18° \mathbb{X} 33'56	
evening set	-2542 Nov 23 j 02:43	26° \mathbb{M} 35'51		retrograde	-2536 Apr 16 j 16:12	21° \mathbb{X} 41'19	
				opposition	-2536 Jul 03 j 22:00	19° \mathbb{X} 42'18	-0°24'35
conjunction	-2542 Dec 08 j 17:14	27° \mathbb{M} 30'19	-0°05'08	min. Earth dist.	-2536 Jul 02 j 19:14	19° \mathbb{X} 44'59	19.00941 AU
minimum elong	-2542 Dec 08 j 17:14	27° \mathbb{M} 30'19	0°05'12	direct	-2536 Sep 17 j 17:45	17° \mathbb{X} 46'06	
behind sun begin	-2542 Dec 08 j 10:54	27° \mathbb{M} 29'25		evening set	-2536 Dec 16 j 07:07	20° \mathbb{X} 45'12	
behind sun end	-2542 Dec 08 j 23:34	27° \mathbb{M} 31'13					
max. Earth dist.	-2542 Dec 09 j 18:17	27° \mathbb{M} 33'59	20.78297 AU	conjunction	-2535 Jan 01 j 00:38	21° \mathbb{X} 39'10	-0°23'39
morning rise	-2542 Dec 24 j 09:49	28° \mathbb{M} 25'05		minimum elong	-2535 Jan 01 j 00:38	21° \mathbb{X} 39'10	0°23'43
	-2541 Jan 23 j 12:37	0° \mathbb{X}		max. Earth dist.	-2535 Jan 02 j 04:58	21° \mathbb{X} 43'16	21.02375 AU
retrograde	-2541 Mar 27 j 18:38	1° \mathbb{X} 33'49		morning rise	-2535 Jan 16 j 21:28	22° \mathbb{X} 33'37	
	-2541 Jun 03 j 01:34	30° \mathbb{R} \mathbb{M}		retrograde	-2535 Apr 21 j 02:27	25° \mathbb{X} 40'51	
opposition	-2541 Jun 13 j 17:53	29° \mathbb{M} 34'33	-0°07'27	min. Earth dist.	-2535 Jul 07 j 03:25	23° \mathbb{X} 44'36	19.03756 AU
min. Earth dist.	-2541 Jun 12 j 16:27	29° \mathbb{M} 37'06	18.80752 AU	opposition	-2535 Jul 08 j 06:54	23° \mathbb{X} 41'51	-0°27'41
direct	-2541 Aug 29 j 02:15	27° \mathbb{M} 37'11		direct	-2535 Sep 22 j 00:47	21° \mathbb{X} 45'48	
	-2541 Nov 15 j 10:17	0° \mathbb{X}		evening set	-2535 Dec 20 j 11:25	24° \mathbb{X} 44'26	
evening set	-2541 Nov 27 j 08:04	0° \mathbb{X} 39'40					
				conjunction	-2534 Jan 05 j 05:33	25° \mathbb{X} 38'23	-0°26'24
conjunction	-2541 Dec 12 j 22:55	1° \mathbb{X} 34'00	-0°08'23	minimum elong	-2534 Jan 05 j 05:33	25° \mathbb{X} 38'23	0°26'29
minimum elong	-2541 Dec 12 j 22:56	1° \mathbb{X} 34'00	0°08'27	max. Earth dist.	-2534 Jan 06 j 10:01	25° \mathbb{X} 42'28	21.04914 AU
behind sun begin	-2541 Dec 12 j 17:10	1° \mathbb{X} 33'11		morning rise	-2534 Jan 21 j 03:11	26° \mathbb{X} 32'50	
behind sun end	-2541 Dec 13 j 04:42	1° \mathbb{X} 34'49		retrograde	-2534 Apr 25 j 09:10	29° \mathbb{X} 39'55	
max. Earth dist.	-2541 Dec 14 j 01:12	1° \mathbb{X} 37'50	20.83099 AU	opposition	-2534 Jul 12 j 15:32	27° \mathbb{X} 40'56	-0°30'39
morning rise	-2541 Dec 28 j 16:08	2° \mathbb{X} 28'41		min. Earth dist.	-2534 Jul 11 j 13:18	27° \mathbb{X} 43'33	19.06030 AU
retrograde	-2540 Mar 31 j 03:45	5° \mathbb{X} 37'04		direct	-2534 Sep 26 j 06:46	25° \mathbb{X} 44'58	
min. Earth dist.	-2540 Jun 16 j 04:17	3° \mathbb{X} 40'22	18.85436 AU	evening set	-2534 Dec 24 j 15:43	28° \mathbb{X} 43'11	
opposition	-2540 Jun 17 j 05:33	3° \mathbb{X} 37'50	-0°11'03				
direct	-2540 Sep 01 j 10:26	1° \mathbb{X} 40'43		conjunction	-2533 Jan 09 j 10:37	29° \mathbb{X} 37'08	-0°29'01
evening set	-2540 Nov 30 j 13:08	4° \mathbb{X} 42'23		minimum elong	-2533 Jan 09 j 10:37	29° \mathbb{X} 37'08	0°29'05
				max. Earth dist.	-2533 Jan 10 j 14:21	29° \mathbb{X} 41'07	21.06918 AU
conjunction	-2540 Dec 16 j 04:28	5° \mathbb{X} 36'37	-0°11'36		-2533 Jan 16 j 02:04	0° \mathbb{Z}	
minimum elong	-2540 Dec 16 j 04:27	5° \mathbb{X} 36'37	0°11'40	morning rise	-2533 Jan 25 j 09:08	0° \mathbb{Z} 31'35	
behind sun begin	-2540 Dec 15 j 23:45	5° \mathbb{X} 35'57		retrograde	-2533 Apr 29 j 19:00	3° \mathbb{Z} 38'34	
behind sun end	-2540 Dec 16 j 09:10	5° \mathbb{X} 37'17		opposition	-2533 Jul 16 j 23:40	1° \mathbb{Z} 39'31	-0°33'28
max. Earth dist.	-2540 Dec 17 j 07:19	5° \mathbb{X} 40'31	20.87652 AU	min. Earth dist.	-2533 Jul 15 j 21:06	1° \mathbb{Z} 42'11	19.07750 AU
morning rise	-2540 Dec 31 j 22:18	6° \mathbb{X} 31'13			-2533 Sep 04 j 19:02	30° \mathbb{R} \mathbb{X}	
retrograde	-2539 Apr 04 j 13:58	9° \mathbb{X} 39'17		direct	-2533 Sep 30 j 13:33	29° \mathbb{X} 43'37	
opposition	-2539 Jun 21 j 16:15	7° \mathbb{X} 40'06	-0°14'34		-2533 Oct 25 j 19:11	0° \mathbb{Z}	
min. Earth dist.	-2539 Jun 20 j 13:20	7° \mathbb{X} 42'48	18.89843 AU	evening set	-2533 Dec 28 j 19:59	2° \mathbb{Z} 41'28	
direct	-2539 Sep 05 j 19:32	5° \mathbb{X} 43'14					
evening set	-2539 Dec 04 j 17:55	8° \mathbb{X} 44'09		conjunction	-2532 Jan 13 j 15:41	3° \mathbb{Z} 35'26	-0°31'29
				minimum elong	-2532 Jan 13 j 15:41	3° \mathbb{Z} 35'26	0°31'33
conjunction	-2539 Dec 20 j 09:41	9° \mathbb{X} 38'18	-0°14'44	max. Earth dist.	-2532 Jan 14 j 19:16	3° \mathbb{Z} 39'23	21.08345 AU
minimum elong	-2539 Dec 20 j 09:40	9° \mathbb{X} 38'18	0°14'48	morning rise	-2532 Jan 29 j 15:07	4° \mathbb{Z} 29'55	
behind sun begin	-2539 Dec 20 j 06:54	9° \mathbb{X} 37'54		retrograde	-2532 May 03 j 01:06	7° \mathbb{Z} 36'47	
behind sun end	-2539 Dec 20 j 12:27	9° \mathbb{X} 38'41		min. Earth dist.	-2532 Jul 19 j 06:24	5° \mathbb{Z} 40'11	19.08896 AU
max. Earth dist.	-2539 Dec 21 j 13:28	9° \mathbb{X} 42'20	20.91894 AU	opposition	-2532 Jul 20 j 07:31	5° \mathbb{Z} 37'40	-0°36'06
morning rise	-2538 Jan 05 j 04:12	10° \mathbb{X} 32'50		direct	-2532 Oct 03 j 18:42	3° \mathbb{Z} 41'45	
retrograde	-2538 Apr 08 j 22:21	13° \mathbb{X} 40'38		evening set	-2531 Jan 01 j 00:18	6° \mathbb{Z} 39'18	
min. Earth dist.	-2538 Jun 25 j 00:18	11° \mathbb{X} 44'10	18.93926 AU				
opposition	-2538 Jun 26 j 02:44	11° \mathbb{X} 41'31	-0°18'01	conjunction	-2531 Jan 16 j 20:49	7° \mathbb{Z} 33'17	-0°33'48
direct	-2538 Sep 10 j 03:08	9° \mathbb{X} 44'55		minimum elong	-2531 Jan 16 j 20:49	7° \mathbb{Z} 33'17	0°33'52

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Attention, astronomical year style is used: The year -2531 in astronomical counting style is the year 2532 BCE in historical counting style.

max. Earth dist.	-2531 Jan 17 j 23:29	7° $\overline{3}$ 37'06	21.09228 AU	opposition	-2525 Aug 18 j 05:23	3° \approx 19'51	-0°49'06
morning rise	-2531 Feb 01 j 21:12	8° $\overline{3}$ 27'49		direct	-2525 Nov 01 j 04:14	1° \approx 23'22	
retrograde	-2531 May 07 j 10:08	11° $\overline{3}$ 34'35		evening set	-2524 Jan 29 j 10:52	4° \approx 21'04	
opposition	-2531 Jul 24 j 14:42	9° $\overline{3}$ 35'22	-0°38'34				
min. Earth dist.	-2531 Jul 23 j 13:29	9° $\overline{3}$ 37'54	19.09515 AU	conjunction	-2524 Feb 14 j 14:01	5° \approx 15'45	-0°44'54
direct	-2531 Oct 08 j 00:57	7° $\overline{3}$ 39'24		minimum elong	-2524 Feb 14 j 14:00	5° \approx 15'45	0°44'57
evening set	-2530 Jan 05 j 04:37	10° $\overline{3}$ 36'43		max. Earth dist.	-2524 Feb 15 j 12:01	5° \approx 18'53	21.03287 AU
				morning rise	-2524 Mar 01 j 21:14	6° \approx 11'01	
conjunction	-2530 Jan 21 j 01:58	11° $\overline{3}$ 30'45	-0°35'56	retrograde	-2524 Jun 04 j 16:50	9° \approx 18'30	
minimum elong	-2530 Jan 21 j 01:58	11° $\overline{3}$ 30'45	0°36'00	opposition	-2524 Aug 21 j 11:36	7° \approx 18'40	-0°50'05
max. Earth dist.	-2530 Jan 22 j 04:31	11° $\overline{3}$ 34'33	21.09592 AU	min. Earth dist.	-2524 Aug 20 j 16:42	7° \approx 20'35	19.02177 AU
morning rise	-2530 Feb 06 j 03:16	12° $\overline{3}$ 25'20		direct	-2524 Nov 04 j 08:06	5° \approx 22'05	
retrograde	-2530 May 11 j 16:09	15° $\overline{3}$ 32'05		evening set	-2523 Feb 01 j 17:27	8° \approx 20'09	
opposition	-2530 Jul 28 j 21:47	13° $\overline{3}$ 32'44	-0°40'50				
min. Earth dist.	-2530 Jul 27 j 21:56	13° $\overline{3}$ 35'08	19.09648 AU	conjunction	-2523 Feb 17 j 21:35	9° \approx 15'00	-0°45'41
direct	-2530 Oct 12 j 05:27	11° $\overline{3}$ 36'42		minimum elong	-2523 Feb 17 j 21:35	9° \approx 15'00	0°45'45
evening set	-2529 Jan 09 j 08:52	14° $\overline{3}$ 33'51		max. Earth dist.	-2523 Feb 18 j 17:47	9° \approx 17'53	21.00895 AU
				morning rise	-2523 Mar 06 j 05:50	10° \approx 10'26	
conjunction	-2529 Jan 25 j 07:08	15° $\overline{3}$ 27'57	-0°37'54	retrograde	-2523 Jun 09 j 03:03	13° \approx 18'13	
minimum elong	-2529 Jan 25 j 07:08	15° $\overline{3}$ 27'57	0°37'59	opposition	-2523 Aug 25 j 17:45	11° \approx 18'20	-0°50'51
max. Earth dist.	-2529 Jan 26 j 08:49	15° $\overline{3}$ 31'36	21.09514 AU	min. Earth dist.	-2523 Aug 24 j 23:43	11° \approx 20'10	18.99568 AU
morning rise	-2529 Feb 10 j 09:26	16° $\overline{3}$ 22'36		direct	-2523 Nov 08 j 13:05	9° \approx 21'38	
retrograde	-2529 May 16 j 00:50	19° $\overline{3}$ 29'21		evening set	-2522 Feb 06 j 00:39	12° \approx 20'09	
min. Earth dist.	-2529 Aug 01 j 04:31	17° $\overline{3}$ 32'17	19.09360 AU				
opposition	-2529 Aug 02 j 04:28	17° $\overline{3}$ 29'53	-0°42'54	conjunction	-2522 Feb 22 j 05:49	13° \approx 15'12	-0°46'16
direct	-2529 Oct 16 j 10:55	15° $\overline{3}$ 33'44		minimum elong	-2522 Feb 22 j 05:49	13° \approx 15'12	0°46'19
evening set	-2528 Jan 13 j 13:30	18° $\overline{3}$ 30'50		max. Earth dist.	-2522 Feb 23 j 01:04	13° \approx 17'56	20.98058 AU
				morning rise	-2522 Mar 10 j 14:59	14° \approx 10'49	
conjunction	-2528 Jan 29 j 12:40	19° $\overline{3}$ 25'01	-0°39'41		-2522 Mar 25 j 20:56	15° \approx	
minimum elong	-2528 Jan 29 j 12:40	19° $\overline{3}$ 25'01	0°39'44	retrograde	-2522 Jun 13 j 11:38	17° \approx 18'55	
max. Earth dist.	-2528 Jan 30 j 14:09	19° $\overline{3}$ 28'38	21.09013 AU	min. Earth dist.	-2522 Aug 29 j 08:12	15° \approx 20'38	18.96498 AU
morning rise	-2528 Feb 14 j 15:55	20° $\overline{3}$ 19'45		opposition	-2522 Aug 30 j 00:11	15° \approx 19'00	-0°51'22
retrograde	-2528 May 19 j 07:31	23° $\overline{3}$ 26'32			-2522 Sep 06 j 18:58	15° \approx	
opposition	-2528 Aug 05 j 10:50	21° $\overline{3}$ 26'58	-0°44'46	direct	-2522 Nov 12 j 17:27	13° \approx 22'10	
min. Earth dist.	-2528 Aug 04 j 12:17	21° $\overline{3}$ 29'14	19.08667 AU		-2521 Jan 15 j 07:01	15° \approx	
direct	-2528 Oct 19 j 14:53	19° $\overline{3}$ 30'45		evening set	-2521 Feb 10 j 08:25	16° \approx 21'11	
evening set	-2527 Jan 16 j 18:20	22° $\overline{3}$ 27'51					
				conjunction	-2521 Feb 26 j 14:38	17° \approx 16'26	-0°46'36
conjunction	-2527 Feb 01 j 18:27	23° $\overline{3}$ 22'08	-0°41'17	minimum elong	-2521 Feb 26 j 14:38	17° \approx 16'26	0°46'38
minimum elong	-2527 Feb 01 j 18:27	23° $\overline{3}$ 22'08	0°41'21	max. Earth dist.	-2521 Feb 27 j 07:35	17° \approx 18'51	20.94760 AU
max. Earth dist.	-2527 Feb 02 j 18:47	23° $\overline{3}$ 25'36	21.08140 AU	morning rise	-2521 Mar 15 j 00:52	18° \approx 12'14	
morning rise	-2527 Feb 17 j 22:44	24° $\overline{3}$ 16'59		retrograde	-2521 Jun 17 j 22:39	21° \approx 20'42	
retrograde	-2527 May 23 j 16:09	27° $\overline{3}$ 23'52		opposition	-2521 Sep 03 j 06:46	19° \approx 20'43	-0°51'37
opposition	-2527 Aug 09 j 17:04	25° $\overline{3}$ 24'12	-0°46'26	min. Earth dist.	-2521 Sep 02 j 16:04	19° \approx 22'13	18.92946 AU
min. Earth dist.	-2527 Aug 08 j 18:34	25° $\overline{3}$ 26'28	19.07607 AU	direct	-2521 Nov 16 j 22:57	17° \approx 23'40	
direct	-2527 Oct 23 j 19:44	23° $\overline{3}$ 27'53		evening set	-2520 Feb 14 j 17:01	20° \approx 23'16	
evening set	-2526 Jan 20 j 23:20	26° $\overline{3}$ 25'06					
				conjunction	-2520 Mar 02 j 00:20	21° \approx 18'45	-0°46'43
conjunction	-2526 Feb 06 j 00:25	27° $\overline{3}$ 19'29	-0°42'42	minimum elong	-2520 Mar 02 j 00:20	21° \approx 18'45	0°46'46
minimum elong	-2526 Feb 06 j 00:25	27° $\overline{3}$ 19'29	0°42'44	max. Earth dist.	-2520 Mar 02 j 15:53	21° \approx 20'58	20.90945 AU
max. Earth dist.	-2526 Feb 07 j 00:25	27° $\overline{3}$ 22'54	21.06886 AU	morning rise	-2520 Mar 18 j 11:26	22° \approx 14'45	
morning rise	-2526 Feb 22 j 05:37	28° $\overline{3}$ 14'28		retrograde	-2520 Jun 21 j 08:05	25° \approx 23'34	
	-2526 Mar 29 j 08:00	0° \approx		opposition	-2520 Sep 06 j 13:29	23° \approx 23'29	-0°51'38
retrograde	-2526 May 27 j 23:31	1° \approx 21'30		min. Earth dist.	-2520 Sep 06 j 01:02	23° \approx 24'46	18.88872 AU
	-2526 Jul 28 j 22:15	30° \approx		direct	-2520 Nov 20 j 04:20	21° \approx 26'12	
opposition	-2526 Aug 13 j 23:18	29° $\overline{3}$ 21'46	-0°47'52	evening set	-2519 Feb 18 j 02:14	24° \approx 26'26	
min. Earth dist.	-2526 Aug 13 j 02:15	29° $\overline{3}$ 23'53	19.06169 AU				
direct	-2526 Oct 27 j 23:30	27° $\overline{3}$ 25'22		conjunction	-2519 Mar 06 j 10:34	25° \approx 22'08	-0°46'36
	-2525 Jan 18 j 06:29	0° \approx		minimum elong	-2519 Mar 06 j 10:34	25° \approx 22'08	0°46'38
evening set	-2525 Jan 25 j 04:52	0° \approx 22'46		max. Earth dist.	-2519 Mar 06 j 23:23	25° \approx 23'58	20.86638 AU
				morning rise	-2519 Mar 22 j 22:41	26° \approx 18'21	
conjunction	-2525 Feb 10 j 06:57	1° \approx 17'18	-0°43'54	retrograde	-2519 Jun 25 j 19:28	29° \approx 27'34	
minimum elong	-2525 Feb 10 j 06:57	1° \approx 17'18	0°43'57	opposition	-2519 Sep 10 j 20:28	27° \approx 27'19	-0°51'22
max. Earth dist.	-2525 Feb 11 j 05:35	1° \approx 20'32	21.05281 AU	min. Earth dist.	-2519 Sep 10 j 09:28	27° \approx 28'27	18.84320 AU
morning rise	-2525 Feb 26 j 13:13	2° \approx 12'25		direct	-2519 Nov 24 j 10:24	25° \approx 29'45	
retrograde	-2525 Jun 01 j 08:51	5° \approx 19'39		evening set	-2518 Feb 22 j 11:53	28° \approx 30'39	
min. Earth dist.	-2525 Aug 17 j 08:43	3° \approx 21'57	19.04374 AU				

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Attention, astronomical year style is used: The year -2518 in astronomical counting style is the year 2519 BCE in historical counting style.

conjunction	-2518 Mar 10 j 21:19	29° \approx 26'35	-0°46'15	retrograde	-2512 Jul 25 j 09:37	28° \mathbf{H} 29'57	
minimum elong	-2518 Mar 10 j 21:20	29° \approx 26'35	0°46'17	opposition	-2512 Oct 09 j 05:29	26° \mathbf{H} 28'34	-0°42'20
max. Earth dist.	-2518 Mar 11 j 08:52	29° \approx 28'14	20.81857 AU	min. Earth dist.	-2512 Oct 09 j 06:24	26° \mathbf{H} 28'28	18.43865 AU
	-2518 Mar 20 j 14:53	0° \mathbf{H}		direct	-2512 Dec 22 j 17:00	24° \mathbf{H} 28'31	
morning rise	-2518 Mar 27 j 10:16	0° \mathbf{H} 23'02		evening set	-2511 Mar 24 j 05:58	27° \mathbf{H} 35'51	
retrograde	-2518 Jun 30 j 05:44	3° \mathbf{H} 32'38					
opposition	-2518 Sep 15 j 03:43	1° \mathbf{H} 32'14	-0°50'51	conjunction	-2511 Apr 09 j 21:56	28° \mathbf{H} 33'46	-0°37'12
min. Earth dist.	-2518 Sep 14 j 18:48	1° \mathbf{H} 33'09	18.79323 AU	minimum elong	-2511 Apr 09 j 21:56	28° \mathbf{H} 33'46	0°37'12
	-2518 Oct 27 j 19:26	30° \mathbf{R} \approx		max. Earth dist.	-2511 Apr 09 j 18:54	28° \mathbf{H} 33'20	20.40698 AU
direct	-2518 Nov 28 j 16:48	29° \approx 34'21		morning rise	-2511 Apr 26 j 16:07	29° \mathbf{H} 32'02	
	-2518 Dec 30 j 03:47	0° \mathbf{H}			-2511 May 04 j 23:43	0° \mathbf{Y}	
evening set	-2517 Feb 26 j 22:26	2° \mathbf{H} 35'58		retrograde	-2511 Jul 30 j 00:50	2° \mathbf{Y} 45'03	
				opposition	-2511 Oct 13 j 15:33	0° \mathbf{Y} 43'34	-0°40'02
conjunction	-2517 Mar 15 j 08:51	3° \mathbf{H} 32'09	-0°45'39	min. Earth dist.	-2511 Oct 13 j 18:15	0° \mathbf{Y} 43'16	18.37494 AU
minimum elong	-2517 Mar 15 j 08:51	3° \mathbf{H} 32'09	0°45'41		-2511 Oct 31 j 04:04	30° \mathbf{R} \mathbf{H}	
max. Earth dist.	-2517 Mar 15 j 17:38	3° \mathbf{H} 33'25	20.76684 AU	direct	-2511 Dec 27 j 03:47	28° \mathbf{H} 43'10	
morning rise	-2517 Mar 31 j 22:48	4° \mathbf{H} 28'51			-2510 Feb 20 j 15:10	0° \mathbf{Y}	
retrograde	-2517 Jul 04 j 17:54	7° \mathbf{H} 38'51		evening set	-2510 Mar 28 j 22:14	1° \mathbf{Y} 51'41	
opposition	-2517 Sep 19 j 11:01	5° \mathbf{H} 38'15	-0°50'05				
min. Earth dist.	-2517 Sep 19 j 03:40	5° \mathbf{H} 39'01	18.73972 AU	conjunction	-2510 Apr 14 j 15:08	2° \mathbf{Y} 49'55	-0°35'00
direct	-2517 Dec 02 j 23:44	3° \mathbf{H} 40'00		minimum elong	-2510 Apr 14 j 15:08	2° \mathbf{Y} 49'55	0°35'01
evening set	-2516 Mar 02 j 09:41	6° \mathbf{H} 42'25		max. Earth dist.	-2510 Apr 14 j 11:12	2° \mathbf{Y} 49'21	20.34282 AU
				morning rise	-2510 May 01 j 09:39	3° \mathbf{Y} 48'27	
conjunction	-2516 Mar 18 j 21:12	7° \mathbf{H} 38'53	-0°44'49	retrograde	-2510 Aug 03 j 15:37	7° \mathbf{Y} 02'03	
minimum elong	-2516 Mar 18 j 21:12	7° \mathbf{H} 38'53	0°44'51	opposition	-2510 Oct 18 j 02:14	5° \mathbf{Y} 00'30	-0°37'30
max. Earth dist.	-2516 Mar 19 j 04:46	7° \mathbf{H} 39'58	20.71168 AU	min. Earth dist.	-2510 Oct 18 j 06:33	5° \mathbf{Y} 00'02	18.31027 AU
morning rise	-2516 Apr 04 j 11:52	8° \mathbf{H} 35'49		direct	-2510 Dec 31 j 14:55	2° \mathbf{Y} 59'48	
retrograde	-2516 Jul 08 j 05:00	11° \mathbf{H} 46'15		evening set	-2509 Apr 02 j 15:53	6° \mathbf{Y} 09'31	
opposition	-2516 Sep 22 j 18:44	9° \mathbf{H} 45'28	-0°49'02				
min. Earth dist.	-2516 Sep 22 j 13:17	9° \mathbf{H} 46'03	18.68310 AU	conjunction	-2509 Apr 19 j 09:20	7° \mathbf{Y} 08'04	-0°32'36
direct	-2516 Dec 06 j 06:42	7° \mathbf{H} 46'52		minimum elong	-2509 Apr 19 j 09:20	7° \mathbf{Y} 08'04	0°32'35
evening set	-2515 Mar 06 j 21:38	10° \mathbf{H} 50'08		max. Earth dist.	-2509 Apr 19 j 02:02	7° \mathbf{Y} 07'00	20.27776 AU
				morning rise	-2509 May 06 j 04:26	8° \mathbf{Y} 06'52	
conjunction	-2515 Mar 23 j 10:01	11° \mathbf{H} 46'52	-0°43'45	retrograde	-2509 Aug 08 j 07:29	11° \mathbf{Y} 21'05	
minimum elong	-2515 Mar 23 j 10:01	11° \mathbf{H} 46'52	0°43'47	opposition	-2509 Oct 22 j 13:30	9° \mathbf{Y} 19'27	-0°34'43
max. Earth dist.	-2515 Mar 23 j 14:50	11° \mathbf{H} 47'34	20.65392 AU	min. Earth dist.	-2509 Oct 22 j 20:07	9° \mathbf{Y} 18'45	18.24470 AU
morning rise	-2515 Apr 09 j 01:35	12° \mathbf{H} 44'03		direct	-2508 Jan 05 j 02:50	7° \mathbf{Y} 18'24	
retrograde	-2515 Jul 12 j 18:09	15° \mathbf{H} 54'57		evening set	-2508 Apr 06 j 10:29	10° \mathbf{Y} 29'24	
opposition	-2515 Sep 27 j 02:45	13° \mathbf{H} 53'59	-0°47'45				
min. Earth dist.	-2515 Sep 26 j 22:47	13° \mathbf{H} 54'24	18.62426 AU	conjunction	-2508 Apr 23 j 04:43	11° \mathbf{Y} 28'16	-0°29'59
direct	-2515 Dec 10 j 14:56	11° \mathbf{H} 55'00		minimum elong	-2508 Apr 23 j 04:43	11° \mathbf{Y} 28'16	0°29'59
evening set	-2514 Mar 11 j 10:20	14° \mathbf{H} 59'12		max. Earth dist.	-2508 Apr 22 j 20:13	11° \mathbf{Y} 27'01	20.21152 AU
				morning rise	-2508 May 09 j 23:57	12° \mathbf{Y} 27'19	
conjunction	-2514 Mar 27 j 23:47	15° \mathbf{H} 56'13	-0°42'27	retrograde	-2508 Aug 12 j 00:17	15° \mathbf{Y} 42'08	
minimum elong	-2514 Mar 27 j 23:47	15° \mathbf{H} 56'13	0°42'28	opposition	-2508 Oct 26 j 01:36	13° \mathbf{Y} 40'27	-0°31'43
max. Earth dist.	-2514 Mar 28 j 03:36	15° \mathbf{H} 56'46	20.59408 AU	min. Earth dist.	-2508 Oct 26 j 09:50	13° \mathbf{Y} 39'34	18.17780 AU
morning rise	-2514 Apr 13 j 15:56	16° \mathbf{H} 53'40		direct	-2507 Jan 08 j 16:23	11° \mathbf{Y} 39'02	
retrograde	-2514 Jul 17 j 06:13	20° \mathbf{H} 05'02		evening set	-2507 Apr 11 j 06:03	14° \mathbf{Y} 51'18	
opposition	-2514 Oct 01 j 11:10	18° \mathbf{H} 03'55	-0°46'12				
min. Earth dist.	-2514 Oct 01 j 08:53	18° \mathbf{H} 04'09	18.56358 AU	conjunction	-2507 Apr 28 j 00:40	15° \mathbf{Y} 50'28	-0°27'10
direct	-2514 Dec 14 j 22:24	16° \mathbf{H} 04'34		minimum elong	-2507 Apr 28 j 00:40	15° \mathbf{Y} 50'28	0°27'09
evening set	-2513 Mar 15 j 23:57	19° \mathbf{H} 09'45		max. Earth dist.	-2507 Apr 27 j 12:36	15° \mathbf{Y} 48'41	20.14403 AU
				morning rise	-2507 May 14 j 20:16	16° \mathbf{Y} 49'48	
conjunction	-2513 Apr 01 j 14:14	20° \mathbf{H} 07'03	-0°40'56	retrograde	-2507 Aug 16 j 16:47	20° \mathbf{Y} 05'13	
minimum elong	-2513 Apr 01 j 14:15	20° \mathbf{H} 07'03	0°40'57	opposition	-2507 Oct 30 j 14:29	18° \mathbf{Y} 03'25	-0°28'31
max. Earth dist.	-2513 Apr 01 j 15:10	20° \mathbf{H} 07'11	20.53282 AU	min. Earth dist.	-2507 Oct 31 j 01:08	18° \mathbf{Y} 02'17	18.10981 AU
morning rise	-2513 Apr 18 j 07:16	21° \mathbf{H} 04'46		direct	-2506 Jan 13 j 05:58	16° \mathbf{Y} 01'37	
retrograde	-2513 Jul 21 j 20:33	24° \mathbf{H} 16'41		evening set	-2506 Apr 16 j 02:31	19° \mathbf{Y} 15'10	
opposition	-2513 Oct 05 j 20:07	22° \mathbf{H} 15'24	-0°44'23				
min. Earth dist.	-2513 Oct 05 j 19:26	22° \mathbf{H} 15'28	18.50169 AU	conjunction	-2506 May 02 j 21:48	20° \mathbf{Y} 14'39	-0°24'11
direct	-2513 Dec 19 j 08:06	20° \mathbf{H} 15'41		minimum elong	-2506 May 02 j 21:48	20° \mathbf{Y} 14'39	0°24'10
evening set	-2512 Mar 19 j 14:28	23° \mathbf{H} 21'55		max. Earth dist.	-2506 May 02 j 08:31	20° \mathbf{Y} 12'41	20.07548 AU
				morning rise	-2506 May 19 j 17:25	21° \mathbf{Y} 14'14	
conjunction	-2512 Apr 05 j 05:45	24° \mathbf{H} 19'32	-0°39'11	retrograde	-2506 Aug 21 j 10:59	24° \mathbf{Y} 30'12	
minimum elong	-2512 Apr 05 j 05:45	24° \mathbf{H} 19'32	0°39'10	opposition	-2506 Nov 04 j 03:54	22° \mathbf{Y} 28'19	-0°25'06
max. Earth dist.	-2512 Apr 05 j 05:43	24° \mathbf{H} 19'32	20.47030 AU	min. Earth dist.	-2506 Nov 04 j 15:57	22° \mathbf{Y} 27'01	18.04081 AU
morning rise	-2512 Apr 21 j 23:12	25° \mathbf{H} 17'31		direct	-2505 Jan 17 j 21:52	20° \mathbf{Y} 26'06	

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Attention, astronomical year style is used: The year -2505 in astronomical counting style is the year 2506 BCE in historical counting style.

evening set	-2505 Apr 21 j 00:06	23° Υ 40'57		behind sun end	-2500 May 31 j 02:17	17° \mathcal{B} 18'49	
				max. Earth dist.	-2500 May 29 j 19:04	17° \mathcal{B} 14'06	19.67587 AU
conjunction	-2505 May 07 j 19:38	24° Υ 40'43	-0°21'01	morning rise	-2500 Jun 16 j 14:05	18° \mathcal{B} 18'43	
minimum elong	-2505 May 07 j 19:38	24° Υ 40'43	0°21'00	retrograde	-2500 Sep 17 j 08:25	21° \mathcal{B} 37'50	
max. Earth dist.	-2505 May 07 j 02:53	24° Υ 38'13	20.00625 AU	opposition	-2500 Nov 30 j 03:50	19° \mathcal{B} 35'17	-0°01'44
morning rise	-2505 May 24 j 15:28	25° Υ 40'33		min. Earth dist.	-2500 Dec 01 j 00:11	19° \mathcal{B} 33'04	17.64669 AU
retrograde	-2505 Aug 26 j 04:11	28° Υ 57'06		direct	-2499 Feb 13 j 11:13	17° \mathcal{B} 30'34	
opposition	-2505 Nov 08 j 18:10	26° Υ 55'05	-0°21'31	asc. node	-2499 May 03 j 10:42	19° \mathcal{B} 59'05	
min. Earth dist.	-2505 Nov 09 j 08:43	26° Υ 53'30	17.97153 AU	evening set	-2499 May 19 j 01:20	20° \mathcal{B} 53'05	
direct	-2504 Jan 22 j 13:15	24° Υ 52'25					
evening set	-2504 Apr 24 j 22:21	28° Υ 08'34		conjunction	-2499 Jun 04 j 21:11	21° \mathcal{B} 54'22	0°00'21
				minimum elong	-2499 Jun 04 j 21:12	21° \mathcal{B} 54'22	0°00'24
conjunction	-2504 May 11 j 18:19	29° Υ 08'38	-0°17'43	behind sun begin	-2499 Jun 04 j 14:26	21° \mathcal{B} 53'22	
minimum elong	-2504 May 11 j 18:20	29° Υ 08'38	0°17'41	behind sun end	-2499 Jun 05 j 03:58	21° \mathcal{B} 55'22	
max. Earth dist.	-2504 May 11 j 00:31	29° Υ 05'58	19.93700 AU	max. Earth dist.	-2499 Jun 03 j 19:26	21° \mathcal{B} 50'26	19.61831 AU
	-2504 May 26 j 02:38	0° \mathcal{B}		morning rise	-2499 Jun 21 j 15:10	22° \mathcal{B} 55'26	
morning rise	-2504 May 28 j 13:58	0° \mathcal{B} 08'42		retrograde	-2499 Sep 22 j 05:17	26° \mathcal{B} 15'02	
retrograde	-2504 Aug 29 j 23:34	3° \mathcal{B} 25'47		opposition	-2499 Dec 04 j 22:36	24° \mathcal{B} 12'27	0°02'26
opposition	-2504 Nov 12 j 08:58	1° \mathcal{B} 23'39	-0°17'47	min. Earth dist.	-2499 Dec 05 j 20:44	24° \mathcal{B} 10'01	17.59136 AU
min. Earth dist.	-2504 Nov 13 j 00:29	1° \mathcal{B} 21'58	17.90252 AU	direct	-2498 Feb 18 j 06:27	22° \mathcal{B} 07'24	
	-2504 Dec 17 j 20:31	30° $\mathcal{R}\Upsilon$		evening set	-2498 May 24 j 04:03	25° \mathcal{B} 31'07	
direct	-2503 Jan 26 j 07:21	29° Υ 20'33					
	-2503 Mar 06 j 05:01	0° \mathcal{B}		conjunction	-2498 Jun 09 j 23:36	26° \mathcal{B} 32'36	0°04'09
evening set	-2503 Apr 29 j 21:32	2° \mathcal{B} 38'00		minimum elong	-2498 Jun 09 j 23:36	26° \mathcal{B} 32'36	0°04'11
				behind sun begin	-2498 Jun 09 j 16:56	26° \mathcal{B} 31'36	
conjunction	-2503 May 16 j 17:34	3° \mathcal{B} 38'20	-0°14'17	behind sun end	-2498 Jun 10 j 06:17	26° \mathcal{B} 33'36	
minimum elong	-2503 May 16 j 17:35	3° \mathcal{B} 38'20	0°14'16	max. Earth dist.	-2498 Jun 08 j 21:00	26° \mathcal{B} 28'31	19.56521 AU
behind sun begin	-2503 May 16 j 14:37	3° \mathcal{B} 37'54		morning rise	-2498 Jun 26 j 17:01	27° \mathcal{B} 33'49	
behind sun end	-2503 May 16 j 20:32	3° \mathcal{B} 38'46			-2498 Aug 13 j 07:18	0° \mathcal{B}	
max. Earth dist.	-2503 May 15 j 20:53	3° \mathcal{B} 35'14	19.86850 AU	retrograde	-2498 Sep 27 j 04:47	0° \mathcal{B} 53'52	
morning rise	-2503 Jun 02 j 13:11	4° \mathcal{B} 38'38			-2498 Nov 11 j 22:12	30° $\mathcal{R}\mathcal{B}$	
retrograde	-2503 Sep 03 j 17:44	7° \mathcal{B} 56'15		opposition	-2498 Dec 09 j 17:51	28° \mathcal{B} 51'17	0°06'37
opposition	-2503 Nov 17 j 00:37	5° \mathcal{B} 53'59	-0°13'54	min. Earth dist.	-2498 Dec 10 j 15:46	28° \mathcal{B} 48'53	17.54048 AU
min. Earth dist.	-2503 Nov 17 j 18:25	5° \mathcal{B} 52'03	17.83484 AU	direct	-2497 Feb 23 j 05:16	26° \mathcal{B} 45'58	
direct	-2502 Jan 31 j 00:12	3° \mathcal{B} 50'26			-2497 May 26 j 06:45	0° \mathcal{B}	
evening set	-2502 May 04 j 21:16	7° \mathcal{B} 09'11		evening set	-2497 May 29 j 07:28	0° \mathcal{B} 10'52	
				max. Earth dist.	-2497 Jun 13 j 23:22	1° \mathcal{B} 08'19	19.51652 AU
conjunction	-2502 May 21 j 17:33	8° \mathcal{B} 09'47	-0°10'46				
minimum elong	-2502 May 21 j 17:34	8° \mathcal{B} 09'47	0°10'42	conjunction	-2497 Jun 15 j 02:38	1° \mathcal{B} 12'31	0°07'52
behind sun begin	-2502 May 21 j 12:25	8° \mathcal{B} 09'01		minimum elong	-2497 Jun 15 j 02:37	1° \mathcal{B} 12'31	0°07'56
behind sun end	-2502 May 21 j 22:43	8° \mathcal{B} 10'32		behind sun begin	-2497 Jun 14 j 20:34	1° \mathcal{B} 11'37	
max. Earth dist.	-2502 May 20 j 20:03	8° \mathcal{B} 06'32	19.80171 AU	behind sun end	-2497 Jun 15 j 08:40	1° \mathcal{B} 13'26	
morning rise	-2502 Jun 07 j 12:54	9° \mathcal{B} 10'18		morning rise	-2497 Jul 01 j 19:11	2° \mathcal{B} 13'51	
retrograde	-2502 Sep 08 j 14:31	12° \mathcal{B} 28'26		retrograde	-2497 Oct 02 j 02:32	5° \mathcal{B} 34'19	
opposition	-2502 Nov 21 j 16:53	10° \mathcal{B} 26'03	-0°09'56	opposition	-2497 Dec 14 j 14:12	3° \mathcal{B} 31'47	0°10'46
min. Earth dist.	-2502 Nov 22 j 11:11	10° \mathcal{B} 24'04	17.76908 AU	min. Earth dist.	-2497 Dec 15 j 13:48	3° \mathcal{B} 29'12	17.49412 AU
direct	-2501 Feb 04 j 19:52	8° \mathcal{B} 22'05		direct	-2496 Feb 28 j 02:00	1° \mathcal{B} 26'15	
evening set	-2501 May 09 j 22:03	11° \mathcal{B} 42'07		evening set	-2496 Jun 02 j 11:22	4° \mathcal{B} 52'15	
				max. Earth dist.	-2496 Jun 18 j 01:34	5° \mathcal{B} 49'40	19.47240 AU
conjunction	-2501 May 26 j 18:13	12° \mathcal{B} 42'57	-0°07'09				
minimum elong	-2501 May 26 j 18:14	12° \mathcal{B} 42'57	0°07'06	conjunction	-2496 Jun 19 j 05:53	5° \mathcal{B} 54'03	0°11'35
behind sun begin	-2501 May 26 j 11:59	12° \mathcal{B} 42'02		minimum elong	-2496 Jun 19 j 05:52	5° \mathcal{B} 54'03	0°11'38
behind sun end	-2501 May 27 j 00:29	12° \mathcal{B} 43'53		behind sun begin	-2496 Jun 19 j 01:08	5° \mathcal{B} 53'20	
max. Earth dist.	-2501 May 25 j 18:29	12° \mathcal{B} 39'21	19.73716 AU	behind sun end	-2496 Jun 19 j 10:37	5° \mathcal{B} 54'46	
morning rise	-2501 Jun 12 j 13:14	13° \mathcal{B} 43'40		morning rise	-2496 Jul 05 j 21:43	6° \mathcal{B} 55'28	
	-2501 Jul 05 j 04:49	15° \mathcal{B}		retrograde	-2496 Oct 06 j 02:32	10° \mathcal{B} 16'21	
retrograde	-2501 Sep 13 j 10:13	17° \mathcal{B} 02'18		opposition	-2496 Dec 18 j 11:11	8° \mathcal{B} 13'51	0°14'53
opposition	-2501 Nov 26 j 09:59	14° \mathcal{B} 59'49	-0°05'52	min. Earth dist.	-2496 Dec 19 j 10:30	8° \mathcal{B} 11'18	17.45220 AU
	-2501 Nov 26 j 08:19	15° $\mathcal{R}\mathcal{B}$		direct	-2495 Mar 04 j 02:55	6° \mathcal{B} 08'08	
min. Earth dist.	-2501 Nov 27 j 06:22	14° \mathcal{B} 57'36	17.70614 AU	evening set	-2495 Jun 07 j 15:47	9° \mathcal{B} 35'11	
direct	-2500 Feb 09 j 14:10	12° \mathcal{B} 55'27		max. Earth dist.	-2495 Jun 23 j 05:25	10° \mathcal{B} 32'41	19.43251 AU
	-2500 Apr 21 j 05:39	15° \mathcal{B}					
evening set	-2500 May 13 j 23:24	16° \mathcal{B} 16'45		conjunction	-2495 Jun 24 j 09:43	10° \mathcal{B} 37'05	0°15'14
				minimum elong	-2495 Jun 24 j 09:43	10° \mathcal{B} 37'05	0°15'18
conjunction	-2500 May 30 j 19:32	17° \mathcal{B} 17'49	-0°03'29	behind sun begin	-2495 Jun 24 j 07:58	10° \mathcal{B} 36'49	
minimum elong	-2500 May 30 j 19:32	17° \mathcal{B} 17'49	0°03'25	behind sun end	-2495 Jun 24 j 11:28	10° \mathcal{B} 37'21	
behind sun begin	-2500 May 30 j 12:48	17° \mathcal{B} 16'49		morning rise	-2495 Jul 11 j 00:29	11° \mathcal{B} 38'34	

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Attention, astronomical year style is used: The year -2495 in astronomical counting style is the year 2496 BCE in historical counting style.

retrograde	-2495 Oct 11 j 00:57	14° Π 59'48	evening set	-2488 Jul 12 j 03:45	13° \ominus 00'42	
opposition	-2495 Dec 23 j 09:01	12° Π 57'22 0°18'56	max. Earth dist.	-2488 Jul 27 j 10:19	13° \ominus 58'05	19.27678 AU
min. Earth dist.	-2495 Dec 24 j 09:50	12° Π 54'39 17.41450 AU				
direct	-2494 Mar 09 j 01:48	10° Π 51'27	conjunction	-2488 Jul 28 j 14:36	14° \ominus 02'33 0°36'53	
evening set	-2494 Jun 12 j 20:41	14° Π 19'27	minimum elong	-2488 Jul 28 j 14:36	14° \ominus 02'33 0°36'57	
max. Earth dist.	-2494 Jun 28 j 08:03	15° Π 16'48 19.39686 AU	morning rise	-2488 Aug 13 j 21:24	15° \ominus 03'49	
			retrograde	-2488 Nov 13 j 01:40	18° \ominus 25'53	
conjunction	-2494 Jun 29 j 13:46	15° Π 21'26 0°18'48	opposition	-2487 Jan 25 j 10:37	16° \ominus 23'38 0°42'24	
minimum elong	-2494 Jun 29 j 13:46	15° Π 21'26 0°18'53	min. Earth dist.	-2487 Jan 26 j 10:39	16° \ominus 21'01 17.27606 AU	
morning rise	-2494 Jul 16 j 03:43	16° Π 22'58	direct	-2487 Apr 12 j 00:47	14° \ominus 16'49	
retrograde	-2494 Oct 16 j 01:21	19° Π 44'30	evening set	-2487 Jul 17 j 08:04	17° \ominus 48'11	
opposition	-2494 Dec 28 j 07:32	17° Π 42'06 0°22'52				
min. Earth dist.	-2494 Dec 29 j 08:06	17° Π 39'25 17.38090 AU	conjunction	-2487 Aug 02 j 17:48	18° \ominus 49'55 0°39'07	
direct	-2493 Mar 14 j 05:02	15° Π 36'01	minimum elong	-2487 Aug 02 j 17:48	18° \ominus 49'55 0°39'11	
evening set	-2493 Jun 18 j 01:51	19° Π 04'51	max. Earth dist.	-2487 Aug 01 j 15:36	18° \ominus 45'46 19.27597 AU	
			morning rise	-2487 Aug 18 j 23:16	19° \ominus 51'02	
conjunction	-2493 Jul 04 j 18:12	20° Π 06'53 0°22'16	retrograde	-2487 Nov 18 j 03:00	23° \ominus 13'00	
minimum elong	-2493 Jul 04 j 18:12	20° Π 06'53 0°22'20	opposition	-2486 Jan 30 j 12:16	21° \ominus 10'49 0°44'44	
max. Earth dist.	-2493 Jul 03 j 13:05	20° Π 02'20 19.36516 AU	min. Earth dist.	-2486 Jan 31 j 10:53	21° \ominus 08'21 17.27842 AU	
morning rise	-2493 Jul 21 j 06:53	21° Π 08'26	direct	-2486 Apr 17 j 05:35	19° \ominus 04'01	
retrograde	-2493 Oct 21 j 00:16	24° Π 30'11	evening set	-2486 Jul 22 j 12:08	22° \ominus 35'23	
opposition	-2492 Jan 02 j 06:51	22° Π 27'50 0°26'39				
min. Earth dist.	-2492 Jan 03 j 08:27	22° Π 25'02 17.35130 AU	conjunction	-2486 Aug 07 j 20:32	23° \ominus 36'58 0°41'04	
direct	-2492 Mar 18 j 06:17	20° Π 21'35	minimum elong	-2486 Aug 07 j 20:32	23° \ominus 36'58 0°41'07	
evening set	-2492 Jun 22 j 07:18	23° Π 51'08	max. Earth dist.	-2486 Aug 06 j 19:06	23° \ominus 32'57 19.28165 AU	
			morning rise	-2486 Aug 24 j 00:45	24° \ominus 37'56	
conjunction	-2492 Jul 08 j 22:33	24° Π 53'11 0°25'35	retrograde	-2486 Nov 23 j 02:08	27° \ominus 59'48	
minimum elong	-2492 Jul 08 j 22:33	24° Π 53'11 0°25'39	opposition	-2485 Feb 04 j 14:21	25° \ominus 57'41 0°46'45	
max. Earth dist.	-2492 Jul 07 j 16:08	24° Π 48'26 19.33774 AU	min. Earth dist.	-2485 Feb 05 j 12:18	25° \ominus 55'18 17.28755 AU	
morning rise	-2492 Jul 25 j 10:16	25° Π 54'44	direct	-2485 Apr 22 j 08:28	23° \ominus 50'58	
retrograde	-2492 Oct 25 j 00:55	29° Π 16'40	evening set	-2485 Jul 27 j 15:34	27° \ominus 22'14	
opposition	-2491 Jan 06 j 06:41	27° Π 14'21 0°30'16				
min. Earth dist.	-2491 Jan 07 j 07:55	27° Π 11'35 17.32616 AU	conjunction	-2485 Aug 12 j 22:42	28° \ominus 23'39 0°42'44	
direct	-2491 Mar 23 j 10:25	25° Π 07'55	minimum elong	-2485 Aug 12 j 22:42	28° \ominus 23'39 0°42'47	
evening set	-2491 Jun 27 j 12:28	28° Π 38'05	max. Earth dist.	-2485 Aug 11 j 23:20	28° \ominus 19'57 19.29420 AU	
max. Earth dist.	-2491 Jul 12 j 21:44	29° Π 35'33 19.31480 AU	morning rise	-2485 Aug 29 j 01:38	29° \ominus 24'26	
				-2485 Sep 07 j 20:22	0° Ω	
conjunction	-2491 Jul 14 j 02:54	29° Π 40'08 0°28'44	retrograde	-2485 Nov 28 j 03:30	2° Ω 46'08	
minimum elong	-2491 Jul 14 j 02:54	29° Π 40'08 0°28'47	opposition	-2484 Feb 09 j 16:33	0° Ω 44'09 0°48'27	
	-2491 Jul 19 j 09:21	0° \ominus	min. Earth dist.	-2484 Feb 10 j 12:17	0° Ω 42'01 17.30333 AU	
morning rise	-2491 Jul 30 j 13:19	0° \ominus 41'38		-2484 Feb 27 j 01:41	30° \Re \ominus	
retrograde	-2491 Oct 30 j 00:49	4° \ominus 03'41	direct	-2484 Apr 26 j 13:45	28° \ominus 37'36	
opposition	-2490 Jan 11 j 07:07	2° \ominus 01'23 0°33'41		-2484 Jun 22 j 17:25	0° Ω	
min. Earth dist.	-2490 Jan 12 j 08:40	1° \ominus 58'36 17.30554 AU	evening set	-2484 Jul 31 j 18:31	2° Ω 08'39	
	-2490 Mar 14 j 13:10	30° \Re Π	max. Earth dist.	-2484 Aug 16 j 02:37	3° Ω 06'26 19.31332 AU	
direct	-2490 Mar 28 j 13:23	29° Π 54'50				
	-2490 Apr 11 j 11:21	0° \ominus	conjunction	-2484 Aug 17 j 00:22	3° Ω 09'52 0°44'06	
evening set	-2490 Jul 02 j 17:55	3° \ominus 25'28	minimum elong	-2484 Aug 17 j 00:22	3° Ω 09'52 0°44'10	
max. Earth dist.	-2490 Jul 18 j 01:03	4° \ominus 22'45 19.29670 AU	morning rise	-2484 Sep 02 j 02:01	4° Ω 10'28	
			retrograde	-2484 Dec 02 j 02:01	7° Ω 31'59	
conjunction	-2490 Jul 19 j 07:06	4° \ominus 27'29 0°31'41	opposition	-2483 Feb 13 j 18:55	5° Ω 30'09 0°49'49	
minimum elong	-2490 Jul 19 j 07:06	4° \ominus 27'29 0°31'44	min. Earth dist.	-2483 Feb 14 j 14:00	5° Ω 28'06 17.32571 AU	
morning rise	-2490 Aug 04 j 16:26	5° \ominus 28'56	direct	-2483 May 01 j 16:26	3° Ω 23'49	
retrograde	-2490 Nov 04 j 01:06	8° \ominus 51'02	evening set	-2483 Aug 05 j 20:47	6° Ω 54'33	
opposition	-2489 Jan 16 j 07:47	6° \ominus 48'45 0°36'51	max. Earth dist.	-2483 Aug 21 j 05:19	7° Ω 52'23 19.33882 AU	
min. Earth dist.	-2489 Jan 17 j 08:58	6° \ominus 46'00 17.29008 AU				
direct	-2489 Apr 02 j 17:18	4° \ominus 42'04	conjunction	-2483 Aug 22 j 01:21	7° Ω 55'33 0°45'11	
evening set	-2489 Jul 07 j 22:59	8° \ominus 13'05	minimum elong	-2483 Aug 22 j 01:21	7° Ω 55'33 0°45'13	
max. Earth dist.	-2489 Jul 23 j 06:52	9° \ominus 10'34 19.28389 AU	morning rise	-2483 Sep 07 j 01:54	8° Ω 55'57	
			retrograde	-2483 Dec 07 j 02:45	12° Ω 17'14	
conjunction	-2489 Jul 24 j 11:11	9° \ominus 15'02 0°34'24	opposition	-2482 Feb 18 j 21:13	10° Ω 15'35 0°50'50	
minimum elong	-2489 Jul 24 j 11:11	9° \ominus 15'02 0°34'28	min. Earth dist.	-2482 Feb 19 j 13:50	10° Ω 13'48 17.35393 AU	
morning rise	-2489 Aug 09 j 19:09	10° \ominus 16'23	direct	-2482 May 06 j 22:21	8° Ω 09'31	
retrograde	-2489 Nov 09 j 01:55	13° \ominus 38'29	evening set	-2482 Aug 10 j 22:29	11° Ω 39'48	
opposition	-2488 Jan 21 j 09:03	11° \ominus 36'14 0°39'46	max. Earth dist.	-2482 Aug 26 j 07:57	12° Ω 37'44 19.36975 AU	
min. Earth dist.	-2488 Jan 22 j 09:41	11° \ominus 33'33 17.28001 AU				
direct	-2488 Apr 06 j 21:28	9° \ominus 29'28	conjunction	-2482 Aug 27 j 01:49	12° Ω 40'34 0°45'56	

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Attention, astronomical year style is used: The year -2482 in astronomical counting style is the year 2483 BCE in historical counting style.

minimum elong	-2482 Aug 27 j 01:49	12° Ω 40'34	0°46'00	morning rise	-2476 Oct 09 j 05:40	11° Π 44'50	
morning rise	-2482 Sep 12 j 01:05	13° Ω 40'44		retrograde	-2475 Jan 08 j 10:14	15° Π 03'13	
	-2482 Oct 04 j 16:09	15° Ω		opposition	-2475 Mar 24 j 10:02	13° Π 02'29	0°48'14
retrograde	-2482 Dec 12 j 00:18	17° Ω 01'45		min. Earth dist.	-2475 Mar 24 j 15:15	13° Π 01'56	17.66885 AU
opposition	-2481 Feb 23 j 23:41	15° Ω 00'17	0°51'30	direct	-2475 Jun 09 j 16:54	10° Π 58'33	
	-2481 Feb 24 j 02:16	15° κ Ω		evening set	-2475 Sep 12 j 11:21	14° Π 22'37	
min. Earth dist.	-2481 Feb 24 j 15:46	14° Ω 58'33	17.38744 AU				
direct	-2481 May 12 j 01:10	12° Ω 54'30		conjunction	-2475 Sep 28 j 06:44	15° Π 21'22	0°42'37
	-2481 Jul 22 j 19:04	15° Ω		minimum elong	-2475 Sep 28 j 06:44	15° Π 21'22	0°42'38
evening set	-2481 Aug 15 j 23:35	16° Ω 24'14		max. Earth dist.	-2475 Sep 28 j 01:48	15° Π 20'36	19.69725 AU
max. Earth dist.	-2481 Aug 31 j 09:00	17° Ω 22'07	19.40575 AU	morning rise	-2475 Oct 13 j 23:38	16° Π 19'43	
				retrograde	-2474 Jan 13 j 06:59	19° Π 37'32	
conjunction	-2481 Sep 01 j 01:33	17° Ω 24'44	0°46'23	opposition	-2474 Mar 29 j 10:13	17° Π 36'50	0°46'34
minimum elong	-2481 Sep 01 j 01:33	17° Ω 24'44	0°46'26	min. Earth dist.	-2474 Mar 29 j 12:49	17° Π 36'34	17.72638 AU
morning rise	-2481 Sep 16 j 23:48	18° Ω 24'40		direct	-2474 Jun 14 j 17:43	15° Π 33'13	
retrograde	-2481 Dec 17 j 00:19	21° Ω 45'22		evening set	-2474 Sep 17 j 05:41	18° Π 56'05	
opposition	-2480 Feb 29 j 02:03	19° Ω 44'04	0°51'49				
min. Earth dist.	-2480 Feb 29 j 15:27	19° Ω 42'38	17.42562 AU	conjunction	-2474 Oct 03 j 00:20	19° Π 54'30	0°41'00
direct	-2480 May 16 j 06:38	17° Ω 38'36		minimum elong	-2474 Oct 03 j 00:20	19° Π 54'30	0°41'01
evening set	-2480 Aug 19 j 23:39	21° Ω 07'37		max. Earth dist.	-2474 Oct 02 j 22:50	19° Π 54'16	19.75621 AU
max. Earth dist.	-2480 Sep 04 j 10:36	22° Ω 05'40	19.44601 AU	morning rise	-2474 Oct 18 j 16:24	20° Π 52'35	
				retrograde	-2473 Jan 18 j 00:59	24° Π 09'48	
conjunction	-2480 Sep 05 j 00:31	22° Ω 07'52	0°46'31	opposition	-2473 Apr 03 j 09:54	22° Π 09'10	0°44'37
minimum elong	-2480 Sep 05 j 00:31	22° Ω 07'52	0°46'33	min. Earth dist.	-2473 Apr 03 j 10:35	22° Π 09'06	17.78676 AU
morning rise	-2480 Sep 20 j 21:33	23° Ω 07'33		direct	-2473 Jun 19 j 17:30	20° Π 05'55	
retrograde	-2480 Dec 20 j 21:20	26° Ω 27'54		evening set	-2473 Sep 21 j 23:12	23° Π 27'30	
opposition	-2479 Mar 05 j 04:23	24° Ω 26'44	0°51'47				
min. Earth dist.	-2479 Mar 05 j 17:09	24° Ω 25'23	17.46783 AU	conjunction	-2473 Oct 07 j 16:50	24° Π 25'36	0°39'09
direct	-2479 May 21 j 09:04	22° Ω 21'35		minimum elong	-2473 Oct 07 j 16:51	24° Π 25'36	0°39'09
evening set	-2479 Aug 24 j 23:09	25° Ω 49'49		max. Earth dist.	-2473 Oct 07 j 16:43	24° Π 25'35	19.81820 AU
				morning rise	-2473 Oct 23 j 08:31	25° Π 23'24	
conjunction	-2479 Sep 09 j 22:42	26° Ω 49'46	0°46'20	retrograde	-2472 Jan 22 j 20:03	28° Π 40'02	
minimum elong	-2479 Sep 09 j 22:42	26° Ω 49'46	0°46'22	opposition	-2472 Apr 07 j 08:56	26° Π 39'29	0°42'24
max. Earth dist.	-2479 Sep 09 j 09:44	26° Ω 47'44	19.49013 AU	min. Earth dist.	-2472 Apr 07 j 07:03	26° Π 39'40	17.85034 AU
morning rise	-2479 Sep 25 j 18:53	27° Ω 49'13		direct	-2472 Jun 23 j 16:23	24° Π 36'35	
	-2479 Nov 05 j 03:10	0° Π		evening set	-2472 Sep 25 j 15:26	27° Π 56'54	
retrograde	-2479 Dec 25 j 20:16	1° Π 09'07					
	-2478 Feb 17 j 04:05	30° κ Ω		conjunction	-2472 Oct 11 j 08:31	28° Π 54'42	0°37'04
opposition	-2478 Mar 10 j 06:11	29° Ω 08'06	0°51'23	minimum elong	-2472 Oct 11 j 08:31	28° Π 54'42	0°37'04
min. Earth dist.	-2478 Mar 10 j 16:18	29° Ω 07'02	17.51360 AU	max. Earth dist.	-2472 Oct 11 j 11:49	28° Π 55'12	19.88324 AU
direct	-2478 May 26 j 12:51	27° Ω 03'15		morning rise	-2472 Oct 26 j 23:35	29° Π 52'14	
	-2478 Aug 21 j 10:52	0° Π			-2472 Oct 29 j 03:21	0° Ω	
evening set	-2478 Aug 29 j 21:41	0° Π 30'35		retrograde	-2471 Jan 26 j 12:56	3° Ω 08'16	
				opposition	-2471 Apr 12 j 07:16	1° Ω 07'50	0°39'58
conjunction	-2478 Sep 14 j 20:15	1° Π 30'15	0°45'51	min. Earth dist.	-2471 Apr 12 j 03:04	1° Ω 08'16	17.91663 AU
minimum elong	-2478 Sep 14 j 20:15	1° Π 30'15	0°45'52		-2471 May 11 j 05:47	30° κ Π	
max. Earth dist.	-2478 Sep 14 j 10:08	1° Π 28'40	19.53749 AU	direct	-2471 Jun 28 j 14:48	29° Π 05'22	
morning rise	-2478 Sep 30 j 15:18	2° Π 29'25			-2471 Aug 14 j 01:48	0° Ω	
retrograde	-2478 Dec 30 j 16:43	5° Π 48'52		evening set	-2471 Sep 30 j 06:59	2° Ω 24'23	
opposition	-2477 Mar 15 j 08:00	3° Π 47'58	0°50'40				
min. Earth dist.	-2477 Mar 15 j 17:13	3° Π 47'00	17.56244 AU	conjunction	-2471 Oct 15 j 23:14	3° Ω 21'52	0°34'47
direct	-2477 May 31 j 14:15	1° Π 43'26		minimum elong	-2471 Oct 15 j 23:14	3° Ω 21'52	0°34'46
evening set	-2477 Sep 03 j 19:16	5° Π 09'46		max. Earth dist.	-2471 Oct 16 j 03:54	3° Ω 22'35	19.95083 AU
				morning rise	-2471 Oct 31 j 14:02	4° Ω 19'09	
conjunction	-2477 Sep 19 j 16:35	6° Π 09'07	0°45'03	retrograde	-2470 Jan 31 j 06:16	7° Ω 34'36	
minimum elong	-2477 Sep 19 j 16:35	6° Π 09'07	0°45'05	opposition	-2470 Apr 17 j 04:52	5° Ω 34'18	0°37'18
max. Earth dist.	-2477 Sep 19 j 07:25	6° Π 07'41	19.58790 AU	min. Earth dist.	-2470 Apr 16 j 22:34	5° Ω 34'57	17.98540 AU
morning rise	-2477 Oct 05 j 10:56	7° Π 08'01		direct	-2470 Jul 03 j 11:22	3° Ω 32'18	
retrograde	-2476 Jan 04 j 14:55	10° Π 26'58		evening set	-2470 Oct 04 j 21:27	6° Ω 50'01	
opposition	-2476 Mar 19 j 09:18	8° Π 26'09	0°49'36				
min. Earth dist.	-2476 Mar 19 j 15:47	8° Π 25'28	17.61426 AU	conjunction	-2470 Oct 20 j 13:15	7° Ω 47'13	0°32'18
direct	-2476 Jun 04 j 16:24	6° Π 21'54		minimum elong	-2470 Oct 20 j 13:15	7° Ω 47'13	0°32'18
evening set	-2476 Sep 07 j 15:46	9° Π 47'09		max. Earth dist.	-2470 Oct 20 j 21:04	7° Ω 48'25	20.02059 AU
				morning rise	-2470 Nov 05 j 03:37	8° Ω 44'14	
conjunction	-2476 Sep 23 j 12:15	10° Π 46'12	0°43'58	retrograde	-2469 Feb 04 j 22:38	11° Ω 59'07	
minimum elong	-2476 Sep 23 j 12:15	10° Π 46'12	0°43'59	opposition	-2469 Apr 22 j 01:57	9° Ω 58'59	0°34'26
max. Earth dist.	-2476 Sep 23 j 06:16	10° Π 45'16	19.64115 AU	min. Earth dist.	-2469 Apr 21 j 17:11	9° Ω 59'53	18.05581 AU

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Attention, astronomical year style is used: The year -2469 in astronomical counting style is the year 2470 BCE in historical counting style.

direct	-2469 Jul 08 j 08:10	7° <u>♏</u> 57'28		conjunction	-2463 Nov 18 j 18:05	7° <u>♏</u> 56'07	0°11'08
evening set	-2469 Oct 09 j 11:05	11° <u>♏</u> 13'53		minimum elong	-2463 Nov 18 j 18:05	7° <u>♏</u> 56'07	0°11'06
				behind sun begin	-2463 Nov 18 j 13:08	7° <u>♏</u> 55'24	
conjunction	-2469 Oct 25 j 02:14	12° <u>♏</u> 10'47	0°29'39	behind sun end	-2463 Nov 18 j 23:01	7° <u>♏</u> 56'50	
minimum elong	-2469 Oct 25 j 02:14	12° <u>♏</u> 10'47	0°29'38	max. Earth dist.	-2463 Nov 19 j 13:03	7° <u>♏</u> 58'56	20.50375 AU
max. Earth dist.	-2469 Oct 25 j 11:28	12° <u>♏</u> 12'12	20.09162 AU	morning rise	-2463 Dec 04 j 08:34	8° <u>♏</u> 51'36	
morning rise	-2469 Nov 09 j 16:30	13° <u>♏</u> 07'34		retrograde	-2462 Mar 07 j 00:01	12° <u>♏</u> 02'40	
retrograde	-2468 Feb 09 j 14:22	16° <u>♏</u> 21'54		opposition	-2462 May 23 j 09:36	10° <u>♏</u> 03'22	0°10'26
opposition	-2468 Apr 25 j 22:26	14° <u>♏</u> 21'56	0°31'23	min. Earth dist.	-2462 May 22 j 14:40	10° <u>♏</u> 05'16	18.53471 AU
min. Earth dist.	-2468 Apr 25 j 12:05	14° <u>♏</u> 22'59	18.12731 AU	direct	-2462 Aug 08 j 03:48	8° <u>♏</u> 04'41	
direct	-2468 Jul 12 j 02:44	12° <u>♏</u> 20'53		evening set	-2462 Nov 07 j 12:34	11° <u>♏</u> 12'22	
evening set	-2468 Oct 12 j 23:51	15° <u>♏</u> 36'01					
				conjunction	-2462 Nov 23 j 02:22	12° <u>♏</u> 07'31	0°07'49
conjunction	-2468 Oct 28 j 14:42	16° <u>♏</u> 32'39	0°26'51	minimum elong	-2462 Nov 23 j 02:22	12° <u>♏</u> 07'31	0°07'46
minimum elong	-2468 Oct 28 j 14:42	16° <u>♏</u> 32'39	0°26'50	behind sun begin	-2462 Nov 22 j 20:27	12° <u>♏</u> 06'40	
max. Earth dist.	-2468 Oct 29 j 02:38	16° <u>♏</u> 34'27	20.16328 AU	behind sun end	-2462 Nov 23 j 08:16	12° <u>♏</u> 08'22	
morning rise	-2468 Nov 13 j 04:44	17° <u>♏</u> 29'10		max. Earth dist.	-2462 Nov 23 j 22:52	12° <u>♏</u> 10'34	20.56500 AU
retrograde	-2467 Feb 13 j 06:04	20° <u>♏</u> 42'57		morning rise	-2462 Dec 08 j 17:06	13° <u>♏</u> 02'50	
opposition	-2467 Apr 30 j 17:56	18° <u>♏</u> 43'09	0°28'10		-2461 Jan 15 j 14:53	15° <u>♏</u>	
min. Earth dist.	-2467 Apr 30 j 05:17	18° <u>♏</u> 44'26	18.19886 AU	retrograde	-2461 Mar 11 j 12:33	16° <u>♏</u> 13'21	
direct	-2467 Jul 16 j 22:01	16° <u>♏</u> 42'34			-2461 May 08 j 11:33	15° <u>♏</u>	
evening set	-2467 Oct 17 j 11:59	19° <u>♏</u> 56'26		min. Earth dist.	-2461 May 27 j 03:32	14° <u>♏</u> 16'12	18.59466 AU
				opposition	-2461 May 28 j 00:45	14° <u>♏</u> 14'04	0°06'43
conjunction	-2467 Nov 02 j 02:20	20° <u>♏</u> 52'47	0°23'54	direct	-2461 Aug 12 j 17:36	12° <u>♏</u> 15'40	
minimum elong	-2467 Nov 02 j 02:20	20° <u>♏</u> 52'47	0°23'53		-2461 Nov 05 j 08:35	15° <u>♏</u>	
max. Earth dist.	-2467 Nov 02 j 15:26	20° <u>♏</u> 54'46	20.23459 AU	evening set	-2461 Nov 11 j 20:02	15° <u>♏</u> 22'10	
morning rise	-2467 Nov 17 j 16:23	21° <u>♏</u> 49'05					
retrograde	-2466 Feb 17 j 20:02	25° <u>♏</u> 02'19		conjunction	-2461 Nov 27 j 09:52	16° <u>♏</u> 17'07	0°04'29
opposition	-2466 May 05 j 13:02	23° <u>♏</u> 02'40	0°24'49	minimum elong	-2461 Nov 27 j 09:52	16° <u>♏</u> 17'07	0°04'25
min. Earth dist.	-2466 May 04 j 23:24	23° <u>♏</u> 04'03	18.26987 AU	behind sun begin	-2461 Nov 27 j 03:26	16° <u>♏</u> 16'12	
direct	-2466 Jul 21 j 14:28	21° <u>♏</u> 02'32		behind sun end	-2461 Nov 27 j 16:17	16° <u>♏</u> 18'03	
evening set	-2466 Oct 21 j 23:08	24° <u>♏</u> 15'08		max. Earth dist.	-2461 Nov 28 j 07:32	16° <u>♏</u> 20'20	20.62369 AU
				morning rise	-2461 Dec 13 j 01:02	17° <u>♏</u> 12'17	
conjunction	-2466 Nov 06 j 13:17	25° <u>♏</u> 11'13	0°20'50	retrograde	-2460 Mar 14 j 22:42	20° <u>♏</u> 22'18	
minimum elong	-2466 Nov 06 j 13:17	25° <u>♏</u> 11'13	0°20'48	opposition	-2460 May 31 j 15:13	18° <u>♏</u> 23'00	0°03'00
max. Earth dist.	-2466 Nov 07 j 04:35	25° <u>♏</u> 13'32	20.30496 AU	min. Earth dist.	-2460 May 30 j 17:48	18° <u>♏</u> 25'09	18.65233 AU
morning rise	-2466 Nov 22 j 03:13	26° <u>♏</u> 07'18		direct	-2460 Aug 16 j 05:15	16° <u>♏</u> 24'52	
retrograde	-2465 Feb 22 j 10:50	29° <u>♏</u> 20'00		evening set	-2460 Nov 15 j 02:55	19° <u>♏</u> 30'16	
opposition	-2465 May 10 j 07:19	27° <u>♏</u> 20'29	0°21'20				
min. Earth dist.	-2465 May 09 j 15:22	27° <u>♏</u> 22'06	18.33943 AU	conjunction	-2460 Nov 30 j 16:57	20° <u>♏</u> 25'02	0°01'06
direct	-2465 Jul 26 j 08:17	25° <u>♏</u> 20'46		minimum elong	-2460 Nov 30 j 16:57	20° <u>♏</u> 25'02	0°01'03
evening set	-2465 Oct 26 j 09:42	28° <u>♏</u> 32'07		behind sun begin	-2460 Nov 30 j 10:26	20° <u>♏</u> 24'06	
				behind sun end	-2460 Nov 30 j 23:28	20° <u>♏</u> 25'58	
conjunction	-2465 Nov 10 j 23:33	29° <u>♏</u> 27'57	0°17'40	max. Earth dist.	-2460 Dec 01 j 16:00	20° <u>♏</u> 28'26	20.68026 AU
minimum elong	-2465 Nov 10 j 23:33	29° <u>♏</u> 27'57	0°17'39	morning rise	-2460 Dec 16 j 08:29	21° <u>♏</u> 20'02	
max. Earth dist.	-2465 Nov 11 j 15:53	29° <u>♏</u> 30'24	20.37356 AU	retrograde	-2459 Mar 19 j 10:26	24° <u>♏</u> 29'34	
	-2465 Nov 19 j 20:59	0° <u>♏</u>		desc. node	-2459 Mar 27 j 14:05	24° <u>♏</u> 27'56	
morning rise	-2465 Nov 26 j 13:39	0° <u>♏</u> 23'49		min. Earth dist.	-2459 Jun 04 j 04:57	22° <u>♏</u> 32'39	18.70782 AU
retrograde	-2464 Feb 26 j 23:16	3° <u>♏</u> 35'58		opposition	-2459 Jun 05 j 04:33	22° <u>♏</u> 30'17	-0°00'42
min. Earth dist.	-2464 May 13 j 08:26	1° <u>♏</u> 38'13	18.40710 AU	direct	-2459 Aug 20 j 17:16	20° <u>♏</u> 32'24	
opposition	-2464 May 14 j 00:55	1° <u>♏</u> 36'33	0°17'46	evening set	-2459 Nov 19 j 09:17	23° <u>♏</u> 36'46	
	-2464 Jun 29 j 08:11	30° <u>♏</u>					
direct	-2464 Jul 29 j 22:52	29° <u>♏</u> 37'13		conjunction	-2459 Dec 04 j 23:27	24° <u>♏</u> 31'22	-0°02'20
	-2464 Aug 28 j 19:17	0° <u>♏</u>		minimum elong	-2459 Dec 04 j 23:27	24° <u>♏</u> 31'22	0°02'24
evening set	-2464 Oct 29 j 19:23	2° <u>♏</u> 47'20		behind sun begin	-2459 Dec 04 j 16:56	24° <u>♏</u> 30'26	
				behind sun end	-2459 Dec 05 j 05:59	24° <u>♏</u> 32'18	
conjunction	-2464 Nov 14 j 09:14	3° <u>♏</u> 42'55	0°14'26	max. Earth dist.	-2459 Dec 05 j 23:38	24° <u>♏</u> 34'55	20.73460 AU
minimum elong	-2464 Nov 14 j 09:14	3° <u>♏</u> 42'55	0°14'24	morning rise	-2459 Dec 20 j 15:30	25° <u>♏</u> 26'15	
behind sun begin	-2464 Nov 14 j 06:04	3° <u>♏</u> 42'28		retrograde	-2458 Mar 23 j 19:27	28° <u>♏</u> 35'20	
behind sun end	-2464 Nov 14 j 12:24	3° <u>♏</u> 43'23		opposition	-2458 Jun 09 j 17:32	26° <u>♏</u> 36'04	-0°04'22
max. Earth dist.	-2464 Nov 15 j 03:14	3° <u>♏</u> 45'37	20.44003 AU	min. Earth dist.	-2458 Jun 08 j 17:50	26° <u>♏</u> 38'27	18.76121 AU
morning rise	-2464 Nov 29 j 23:26	4° <u>♏</u> 38'36		direct	-2458 Aug 25 j 03:19	24° <u>♏</u> 38'29	
retrograde	-2463 Mar 02 j 12:55	7° <u>♏</u> 50'12		evening set	-2458 Nov 23 j 14:56	27° <u>♏</u> 41'51	
opposition	-2463 May 18 j 17:35	5° <u>♏</u> 50'51	0°14'08				
min. Earth dist.	-2463 May 17 j 22:54	5° <u>♏</u> 52'44	18.47222 AU	conjunction	-2458 Dec 09 j 05:28	28° <u>♏</u> 36'18	-0°05'38
direct	-2463 Aug 03 j 14:36	3° <u>♏</u> 51'52		minimum elong	-2458 Dec 09 j 05:27	28° <u>♏</u> 36'18	0°05'41
evening set	-2463 Nov 03 j 04:24	7° <u>♏</u> 00'45		behind sun begin	-2458 Dec 08 j 23:11	28° <u>♏</u> 35'24	

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Attention, astronomical year style is used: The year -2458 in astronomical counting style is the year 2459 BCE in historical counting style.

behind sun end	-2458 Dec 09 j 11:44	28° $\overline{\text{M}}$ 37'12		conjunction	-2451 Jan 01 j 13:03	22° $\overline{\text{A}}$ 45'06	-0°24'03
max. Earth dist.	-2458 Dec 10 j 06:51	28° $\overline{\text{M}}$ 40'01	20.78689 AU	minimum elong	-2451 Jan 01 j 13:03	22° $\overline{\text{A}}$ 45'06	0°24'07
morning rise	-2458 Dec 24 j 22:00	29° $\overline{\text{M}}$ 31'04		max. Earth dist.	-2451 Jan 02 j 17:09	22° $\overline{\text{A}}$ 49'09	21.03131 AU
	-2457 Jan 02 j 12:01	0° $\overline{\text{A}}$		morning rise	-2451 Jan 17 j 09:46	23° $\overline{\text{A}}$ 39'31	
retrograde	-2457 Mar 28 j 07:11	2° $\overline{\text{A}}$ 39'45		retrograde	-2451 Apr 21 j 13:37	26° $\overline{\text{A}}$ 46'38	
min. Earth dist.	-2457 Jun 13 j 03:54	0° $\overline{\text{A}}$ 43'07	18.81230 AU	opposition	-2451 Jul 08 j 18:50	24° $\overline{\text{A}}$ 47'42	-0°28'06
opposition	-2457 Jun 14 j 05:41	0° $\overline{\text{A}}$ 40'32	-0°08'00	min. Earth dist.	-2451 Jul 07 j 15:43	24° $\overline{\text{A}}$ 50'24	19.04459 AU
	-2457 Jul 01 j 11:23	30° $\overline{\text{R}}$ $\overline{\text{M}}$		direct	-2451 Sep 22 j 13:10	22° $\overline{\text{A}}$ 51'39	
direct	-2457 Aug 29 j 13:58	28° $\overline{\text{M}}$ 43'12		evening set	-2451 Dec 20 j 23:59	25° $\overline{\text{A}}$ 50'14	
	-2457 Oct 24 j 11:32	0° $\overline{\text{A}}$					
evening set	-2457 Nov 27 j 20:23	1° $\overline{\text{A}}$ 45'40		conjunction	-2450 Jan 05 j 18:03	26° $\overline{\text{A}}$ 44'09	-0°26'46
				minimum elong	-2450 Jan 05 j 18:03	26° $\overline{\text{A}}$ 44'09	0°26'49
conjunction	-2457 Dec 13 j 11:12	2° $\overline{\text{A}}$ 40'00	-0°08'53	max. Earth dist.	-2450 Jan 06 j 21:59	26° $\overline{\text{A}}$ 48'10	21.05558 AU
minimum elong	-2457 Dec 13 j 11:12	2° $\overline{\text{A}}$ 40'00	0°08'56	morning rise	-2450 Jan 21 j 15:37	27° $\overline{\text{A}}$ 38'34	
behind sun begin	-2457 Dec 13 j 05:34	2° $\overline{\text{A}}$ 39'12			-2450 Mar 12 j 23:54	0° $\overline{\text{B}}$	
behind sun end	-2457 Dec 13 j 16:50	2° $\overline{\text{A}}$ 40'48		retrograde	-2450 Apr 25 j 21:13	0° $\overline{\text{B}}$ 45'33	
max. Earth dist.	-2457 Dec 14 j 13:33	2° $\overline{\text{A}}$ 43'51	20.83660 AU		-2450 Jun 10 j 01:14	30° $\overline{\text{R}}$ $\overline{\text{A}}$	
morning rise	-2457 Dec 29 j 04:22	3° $\overline{\text{A}}$ 34'40		min. Earth dist.	-2450 Jul 12 j 01:44	28° $\overline{\text{A}}$ 49'09	19.06607 AU
retrograde	-2456 Mar 31 j 15:16	6° $\overline{\text{A}}$ 42'59		opposition	-2450 Jul 13 j 03:32	28° $\overline{\text{A}}$ 46'35	-0°31'02
opposition	-2456 Jun 17 j 17:12	4° $\overline{\text{A}}$ 43'50	-0°11'35	direct	-2450 Sep 26 j 18:46	26° $\overline{\text{A}}$ 50'37	
min. Earth dist.	-2456 Jun 16 j 15:45	4° $\overline{\text{A}}$ 46'22	18.86072 AU	evening set	-2450 Dec 25 j 04:05	29° $\overline{\text{A}}$ 48'45	
direct	-2456 Sep 01 j 22:12	2° $\overline{\text{A}}$ 46'46			-2450 Dec 28 j 12:08	0° $\overline{\text{B}}$	
evening set	-2456 Dec 01 j 01:23	5° $\overline{\text{A}}$ 48'25					
				conjunction	-2449 Jan 09 j 22:57	0° $\overline{\text{B}}$ 42'40	-0°29'21
conjunction	-2456 Dec 16 j 16:41	6° $\overline{\text{A}}$ 42'38	-0°12'04	minimum elong	-2449 Jan 09 j 22:57	0° $\overline{\text{B}}$ 42'40	0°29'25
minimum elong	-2456 Dec 16 j 16:41	6° $\overline{\text{A}}$ 42'38	0°12'07	max. Earth dist.	-2449 Jan 11 j 02:24	0° $\overline{\text{B}}$ 46'36	21.07432 AU
behind sun begin	-2456 Dec 16 j 12:11	6° $\overline{\text{A}}$ 42'00		morning rise	-2449 Jan 25 j 21:24	1° $\overline{\text{B}}$ 37'06	
behind sun end	-2456 Dec 16 j 21:11	6° $\overline{\text{A}}$ 43'16		retrograde	-2449 Apr 30 j 06:13	4° $\overline{\text{B}}$ 43'57	
max. Earth dist.	-2456 Dec 17 j 19:47	6° $\overline{\text{A}}$ 46'35	20.88354 AU	min. Earth dist.	-2449 Jul 16 j 09:23	2° $\overline{\text{B}}$ 47'32	19.08197 AU
morning rise	-2455 Jan 01 j 10:28	7° $\overline{\text{A}}$ 37'13		opposition	-2449 Jul 17 j 11:39	2° $\overline{\text{B}}$ 44'55	-0°33'48
retrograde	-2455 Apr 05 j 02:22	10° $\overline{\text{A}}$ 45'13		direct	-2449 Oct 01 j 01:31	0° $\overline{\text{B}}$ 48'58	
min. Earth dist.	-2455 Jun 21 j 00:59	8° $\overline{\text{A}}$ 48'49	18.90598 AU	evening set	-2449 Dec 29 j 08:21	3° $\overline{\text{B}}$ 46'45	
opposition	-2455 Jun 22 j 04:04	8° $\overline{\text{A}}$ 46'07	-0°15'05				
direct	-2455 Sep 06 j 07:51	6° $\overline{\text{A}}$ 49'19		conjunction	-2448 Jan 14 j 03:58	4° $\overline{\text{B}}$ 40'41	-0°31'47
evening set	-2455 Dec 05 j 06:07	9° $\overline{\text{A}}$ 50'13		minimum elong	-2448 Jan 14 j 03:58	4° $\overline{\text{B}}$ 40'41	0°31'50
				max. Earth dist.	-2448 Jan 15 j 07:06	4° $\overline{\text{B}}$ 44'34	21.08741 AU
conjunction	-2455 Dec 20 j 21:48	10° $\overline{\text{A}}$ 44'20	-0°15'12	morning rise	-2448 Jan 30 j 03:20	5° $\overline{\text{B}}$ 35'08	
minimum elong	-2455 Dec 20 j 21:48	10° $\overline{\text{A}}$ 44'20	0°15'16	retrograde	-2448 May 03 j 13:03	8° $\overline{\text{B}}$ 41'53	
behind sun begin	-2455 Dec 20 j 19:30	10° $\overline{\text{A}}$ 44'01		opposition	-2448 Jul 20 j 19:15	6° $\overline{\text{B}}$ 42'45	-0°36'24
behind sun end	-2455 Dec 21 j 00:06	10° $\overline{\text{A}}$ 44'39		min. Earth dist.	-2448 Jul 19 j 18:28	6° $\overline{\text{B}}$ 45'14	19.09249 AU
max. Earth dist.	-2455 Dec 22 j 01:35	10° $\overline{\text{A}}$ 48'22	20.92691 AU	direct	-2448 Oct 04 j 06:52	4° $\overline{\text{B}}$ 46'48	
morning rise	-2454 Jan 05 j 16:16	11° $\overline{\text{A}}$ 38'51		evening set	-2447 Jan 01 j 12:29	7° $\overline{\text{B}}$ 44'17	
retrograde	-2454 Apr 09 j 10:08	14° $\overline{\text{A}}$ 46'36					
opposition	-2454 Jun 26 j 14:35	12° $\overline{\text{A}}$ 47'33	-0°18'30	conjunction	-2447 Jan 17 j 08:57	8° $\overline{\text{B}}$ 38'15	-0°34'03
min. Earth dist.	-2454 Jun 25 j 12:11	12° $\overline{\text{A}}$ 50'11	18.94752 AU	minimum elong	-2447 Jan 17 j 08:56	8° $\overline{\text{B}}$ 38'15	0°34'07
direct	-2454 Sep 10 j 14:34	10° $\overline{\text{A}}$ 51'00		max. Earth dist.	-2447 Jan 18 j 11:30	8° $\overline{\text{B}}$ 42'03	21.09555 AU
evening set	-2454 Dec 09 j 10:41	13° $\overline{\text{A}}$ 51'12		morning rise	-2447 Feb 02 j 09:14	9° $\overline{\text{B}}$ 32'45	
				retrograde	-2447 May 07 j 21:45	12° $\overline{\text{B}}$ 39'26	
conjunction	-2454 Dec 25 j 02:57	14° $\overline{\text{A}}$ 45'15	-0°18'15	min. Earth dist.	-2447 Jul 24 j 01:15	10° $\overline{\text{B}}$ 42'43	19.09827 AU
minimum elong	-2454 Dec 25 j 02:57	14° $\overline{\text{A}}$ 45'15	0°18'19	opposition	-2447 Jul 25 j 02:27	10° $\overline{\text{B}}$ 40'12	-0°38'49
max. Earth dist.	-2454 Dec 26 j 07:05	14° $\overline{\text{A}}$ 49'19	20.96647 AU	direct	-2447 Oct 08 j 12:38	8° $\overline{\text{B}}$ 44'12	
morning rise	-2453 Jan 09 j 22:07	15° $\overline{\text{A}}$ 39'43		evening set	-2446 Jan 05 j 16:36	11° $\overline{\text{B}}$ 41'28	
retrograde	-2453 Apr 13 j 20:19	18° $\overline{\text{A}}$ 47'13					
min. Earth dist.	-2453 Jun 29 j 20:53	16° $\overline{\text{A}}$ 50'59	18.98491 AU	conjunction	-2446 Jan 21 j 13:51	12° $\overline{\text{B}}$ 35'28	-0°36'09
opposition	-2453 Jul 01 j 00:27	16° $\overline{\text{A}}$ 48'14	-0°21'50	minimum elong	-2446 Jan 21 j 13:51	12° $\overline{\text{B}}$ 35'28	0°36'13
direct	-2453 Sep 14 j 23:28	14° $\overline{\text{A}}$ 51'54		max. Earth dist.	-2446 Jan 22 j 16:14	12° $\overline{\text{B}}$ 39'14	21.09900 AU
evening set	-2453 Dec 13 j 15:10	17° $\overline{\text{A}}$ 51'29		morning rise	-2446 Feb 06 j 15:04	13° $\overline{\text{B}}$ 30'02	
				retrograde	-2446 May 12 j 04:08	16° $\overline{\text{B}}$ 36'42	
conjunction	-2453 Dec 29 j 07:58	18° $\overline{\text{A}}$ 45'29	-0°21'12	min. Earth dist.	-2446 Jul 28 j 09:37	14° $\overline{\text{B}}$ 39'45	19.09966 AU
minimum elong	-2453 Dec 29 j 07:58	18° $\overline{\text{A}}$ 45'29	0°21'16	opposition	-2446 Jul 29 j 09:29	14° $\overline{\text{B}}$ 37'22	-0°41'03
max. Earth dist.	-2453 Dec 30 j 12:20	18° $\overline{\text{A}}$ 49'34	21.00140 AU	direct	-2446 Oct 12 j 17:21	12° $\overline{\text{B}}$ 41'19	
morning rise	-2452 Jan 14 j 03:56	19° $\overline{\text{A}}$ 39'55		evening set	-2445 Jan 09 j 20:54	15° $\overline{\text{B}}$ 38'27	
retrograde	-2452 Apr 17 j 04:13	22° $\overline{\text{A}}$ 47'13					
min. Earth dist.	-2452 Jul 03 j 07:34	20° $\overline{\text{A}}$ 50'54	19.01742 AU	conjunction	-2445 Jan 25 j 19:04	16° $\overline{\text{B}}$ 32'31	-0°38'05
opposition	-2452 Jul 04 j 10:00	20° $\overline{\text{A}}$ 48'16	-0°25'02	minimum elong	-2445 Jan 25 j 19:04	16° $\overline{\text{B}}$ 32'31	0°38'08
direct	-2452 Sep 18 j 05:19	18° $\overline{\text{A}}$ 52'06		max. Earth dist.	-2445 Jan 26 j 20:50	16° $\overline{\text{B}}$ 36'12	21.09848 AU
evening set	-2452 Dec 16 j 19:36	21° $\overline{\text{A}}$ 51'09		morning rise	-2445 Feb 10 j 21:16	17° $\overline{\text{B}}$ 27'09	

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Attention, astronomical year style is used: The year -2445 in astronomical counting style is the year 2446 BCE in historical counting style.

retrograde	-2445 May 16 j 13:11	20° ♁ 33'51	evening set	-2438 Feb 06 j 12:33	13° ♁ 25'55	
opposition	-2445 Aug 02 j 16:01	18° ♁ 34'24 -0°43'05				
min. Earth dist.	-2445 Aug 01 j 15:54	18° ♁ 36'50 19.09719 AU	conjunction	-2438 Feb 22 j 17:38	14° ♁ 20'58 -0°46'10	
direct	-2445 Oct 16 j 22:38	16° ♁ 38'18	minimum elong	-2438 Feb 22 j 17:38	14° ♁ 20'58 0°46'12	
evening set	-2444 Jan 14 j 01:27	19° ♁ 35'23	max. Earth dist.	-2438 Feb 23 j 12:26	14° ♁ 23'38 20.98375 AU	
				-2438 Mar 06 j 04:22	15° ♁	
conjunction	-2444 Jan 30 j 00:32	20° ♁ 29'33 -0°39'50	morning rise	-2438 Mar 11 j 02:44	15° ♁ 16'34	
minimum elong	-2444 Jan 30 j 00:31	20° ♁ 29'33 0°39'54	retrograde	-2438 Jun 13 j 23:31	18° ♁ 24'41	
max. Earth dist.	-2444 Jan 31 j 01:56	20° ♁ 33'10 21.09399 AU	opposition	-2438 Aug 30 j 12:09	16° ♁ 24'48 -0°51'14	
morning rise	-2444 Feb 15 j 03:42	21° ♁ 24'17	min. Earth dist.	-2438 Aug 29 j 20:35	16° ♁ 26'24 18.96733 AU	
retrograde	-2444 May 19 j 19:19	24° ♁ 31'03		-2438 Oct 08 j 04:51	15° ♁	
opposition	-2444 Aug 05 j 22:31	22° ♁ 31'32 -0°44'54	direct	-2438 Nov 13 j 05:21	14° ♁ 27'59	
min. Earth dist.	-2444 Aug 04 j 23:52	22° ♁ 33'49 19.09081 AU		-2438 Dec 18 j 12:45	15° ♁	
direct	-2444 Oct 20 j 02:27	20° ♁ 35'22	evening set	-2437 Feb 10 j 20:25	17° ♁ 27'00	
evening set	-2443 Jan 17 j 06:10	23° ♁ 32'30				
			conjunction	-2437 Feb 27 j 02:34	18° ♁ 22'14 -0°46'28	
conjunction	-2443 Feb 02 j 06:12	24° ♁ 26'45 -0°41'24	minimum elong	-2437 Feb 27 j 02:34	18° ♁ 22'14 0°46'31	
minimum elong	-2443 Feb 02 j 06:12	24° ♁ 26'45 0°41'27	max. Earth dist.	-2437 Feb 27 j 19:06	18° ♁ 24'35 20.94904 AU	
max. Earth dist.	-2443 Feb 03 j 06:44	24° ♁ 30'15 21.08581 AU	morning rise	-2437 Mar 15 j 12:43	19° ♁ 18'02	
morning rise	-2443 Feb 18 j 10:21	25° ♁ 21'36	retrograde	-2437 Jun 18 j 10:23	22° ♁ 26'29	
retrograde	-2443 May 24 j 04:48	28° ♁ 28'29	opposition	-2437 Sep 03 j 18:39	20° ♁ 26'28 -0°51'27	
min. Earth dist.	-2443 Aug 09 j 06:03	26° ♁ 31'11 19.08074 AU	min. Earth dist.	-2437 Sep 03 j 04:14	20° ♁ 27'57 18.92994 AU	
opposition	-2443 Aug 10 j 04:42	26° ♁ 28'54 -0°46'32	direct	-2437 Nov 17 j 11:25	18° ♁ 29'24	
direct	-2443 Oct 24 j 07:32	24° ♁ 32'40	evening set	-2436 Feb 15 j 04:56	21° ♁ 28'57	
evening set	-2442 Jan 21 j 11:17	27° ♁ 29'55				
			conjunction	-2436 Mar 02 j 12:10	22° ♁ 24'25 -0°46'33	
conjunction	-2442 Feb 06 j 12:16	28° ♁ 24'18 -0°42'46	minimum elong	-2436 Mar 02 j 12:10	22° ♁ 24'25 0°46'34	
minimum elong	-2442 Feb 06 j 12:16	28° ♁ 24'18 0°42'50	max. Earth dist.	-2436 Mar 03 j 03:07	22° ♁ 26'33 20.90900 AU	
max. Earth dist.	-2442 Feb 07 j 12:15	28° ♁ 27'43 21.07379 AU	morning rise	-2436 Mar 18 j 23:13	23° ♁ 20'25	
morning rise	-2442 Feb 22 j 17:24	29° ♁ 19'16	retrograde	-2436 Jun 21 j 19:30	26° ♁ 29'11	
	-2442 Mar 07 j 06:49	0° ♁	opposition	-2436 Sep 07 j 01:27	24° ♁ 29'02 -0°51'24	
retrograde	-2442 May 28 j 11:14	2° ♁ 26'20	min. Earth dist.	-2436 Sep 06 j 13:21	24° ♁ 30'16 18.88734 AU	
opposition	-2442 Aug 14 j 11:00	0° ♁ 26'41 -0°47'56	direct	-2436 Nov 20 j 16:20	22° ♁ 31'41	
min. Earth dist.	-2442 Aug 13 j 14:00	0° ♁ 28'49 19.06680 AU	evening set	-2435 Feb 18 j 13:54	25° ♁ 31'49	
	-2442 Aug 25 j 13:08	30° ♁				
direct	-2442 Oct 28 j 11:02	28° ♁ 30'23	conjunction	-2435 Mar 06 j 22:09	26° ♁ 27'30 -0°46'23	
	-2442 Dec 28 j 03:16	0° ♁	minimum elong	-2435 Mar 06 j 22:09	26° ♁ 27'30 0°46'25	
evening set	-2441 Jan 25 j 16:42	1° ♁ 27'50	max. Earth dist.	-2435 Mar 07 j 10:44	26° ♁ 29'18 20.86420 AU	
			morning rise	-2435 Mar 23 j 10:12	27° ♁ 23'43	
conjunction	-2441 Feb 10 j 18:44	2° ♁ 22'22 -0°43'56		-2435 May 20 j 10:11	0° ♁	
minimum elong	-2441 Feb 10 j 18:44	2° ♁ 22'22 0°43'59	retrograde	-2435 Jun 26 j 06:54	0° ♁ 32'52	
max. Earth dist.	-2441 Feb 11 j 17:31	2° ♁ 25'36 21.05802 AU		-2435 Aug 02 j 14:37	30° ♁	
morning rise	-2441 Feb 27 j 00:56	3° ♁ 17'28	opposition	-2435 Sep 11 j 08:19	28° ♁ 32'31 -0°51'06	
retrograde	-2441 Jun 01 j 21:11	6° ♁ 24'44	min. Earth dist.	-2435 Sep 10 j 21:24	28° ♁ 33'38 18.84029 AU	
opposition	-2441 Aug 18 j 17:10	4° ♁ 25'03 -0°49'07	direct	-2435 Nov 24 j 23:13	26° ♁ 34'50	
min. Earth dist.	-2441 Aug 17 j 20:32	4° ♁ 27'09 19.04891 AU	evening set	-2434 Feb 22 j 23:35	29° ♁ 35'39	
direct	-2441 Nov 01 j 16:03	2° ♁ 28'40		-2434 Mar 02 j 04:13	0° ♁	
evening set	-2440 Jan 29 j 22:49	5° ♁ 26'24				
			conjunction	-2434 Mar 11 j 08:55	0° ♁ 31'34 -0°45'59	
conjunction	-2440 Feb 15 j 01:51	6° ♁ 21'05 -0°44'54	minimum elong	-2434 Mar 11 j 08:55	0° ♁ 31'34 0°46'01	
minimum elong	-2440 Feb 15 j 01:51	6° ♁ 21'05 0°44'57	max. Earth dist.	-2434 Mar 11 j 20:09	0° ♁ 33'10 20.81511 AU	
max. Earth dist.	-2440 Feb 15 j 23:41	6° ♁ 24'12 21.03790 AU	morning rise	-2434 Mar 27 j 21:48	1° ♁ 28'00	
morning rise	-2440 Mar 02 j 09:00	7° ♁ 16'21	retrograde	-2434 Jun 30 j 16:43	4° ♁ 37'32	
retrograde	-2440 Jun 05 j 04:40	10° ♁ 23'52	opposition	-2434 Sep 15 j 15:25	2° ♁ 36'59 -0°50'33	
opposition	-2440 Aug 21 j 23:19	8° ♁ 24'08 -0°50'03	min. Earth dist.	-2434 Sep 15 j 06:41	2° ♁ 37'54 18.78934 AU	
min. Earth dist.	-2440 Aug 21 j 04:44	8° ♁ 26'01 19.02655 AU	direct	-2434 Nov 29 j 04:57	0° ♁ 38'59	
direct	-2440 Nov 04 j 19:48	6° ♁ 27'39	evening set	-2433 Feb 27 j 09:56	3° ♁ 40'31	
evening set	-2439 Feb 02 j 05:26	9° ♁ 25'45				
			conjunction	-2433 Mar 15 j 20:17	4° ♁ 36'41 -0°45'21	
conjunction	-2439 Feb 18 j 09:29	10° ♁ 20'36 -0°45'39	minimum elong	-2433 Mar 15 j 20:17	4° ♁ 36'41 0°45'23	
minimum elong	-2439 Feb 18 j 09:29	10° ♁ 20'36 0°45'41	max. Earth dist.	-2433 Mar 16 j 05:07	4° ♁ 37'57 20.76263 AU	
max. Earth dist.	-2439 Feb 19 j 05:34	10° ♁ 23'27 21.01335 AU	morning rise	-2433 Apr 01 j 10:10	5° ♁ 33'22	
morning rise	-2439 Mar 06 j 17:39	11° ♁ 16'01	retrograde	-2433 Jul 05 j 04:42	8° ♁ 43'18	
retrograde	-2439 Jun 09 j 14:55	14° ♁ 23'50	opposition	-2433 Sep 19 j 22:42	6° ♁ 42'34 -0°49'43	
min. Earth dist.	-2439 Aug 25 j 11:48	12° ♁ 25'51 18.99954 AU	min. Earth dist.	-2433 Sep 19 j 15:14	6° ♁ 43'21 18.73529 AU	
opposition	-2439 Aug 26 j 05:36	12° ♁ 24'02 -0°50'46	direct	-2433 Dec 03 j 12:19	4° ♁ 44'12	
direct	-2439 Nov 09 j 01:05	10° ♁ 27'24	evening set	-2432 Mar 02 j 21:03	7° ♁ 46'32	

Attention, astronomical year style is used: The year -2432 in astronomical counting style is the year 2433 BCE in historical counting style.

conjunction	-2432 Mar 19 j 08:27	8° H 42'59	-0°44'29	retrograde	-2426 Aug 04 j 03:54	8° Y 06'09	
minimum elong	-2432 Mar 19 j 08:27	8° H 42'59	0°44'30	opposition	-2426 Oct 18 j 13:57	6° Y 04'38	-0°36'56
max. Earth dist.	-2432 Mar 19 j 16:02	8° H 44'04	20.70711 AU	min. Earth dist.	-2426 Oct 18 j 18:33	6° Y 04'09	18.30578 AU
morning rise	-2432 Apr 04 j 23:02	9° H 39'54		direct	-2425 Jan 01 j 01:48	4° Y 03'58	
retrograde	-2432 Jul 08 j 15:40	12° H 50'17		evening set	-2425 Apr 03 j 03:22	7° Y 13'49	
opposition	-2432 Sep 23 j 06:16	10° H 49'23	-0°48'39				
min. Earth dist.	-2432 Sep 23 j 00:49	10° H 49'57	18.67853 AU	conjunction	-2425 Apr 19 j 20:46	8° Y 12'23	-0°32'04
direct	-2432 Dec 06 j 19:08	8° H 50'40		minimum elong	-2425 Apr 19 j 20:47	8° Y 12'23	0°32'04
evening set	-2431 Mar 07 j 08:55	11° H 53'53		max. Earth dist.	-2425 Apr 19 j 13:15	8° Y 11'17	20.27267 AU
				morning rise	-2425 May 06 j 15:50	9° Y 11'13	
conjunction	-2431 Mar 23 j 21:15	12° H 50'36	-0°43'23	retrograde	-2425 Aug 08 j 20:02	12° Y 25'35	
minimum elong	-2431 Mar 23 j 21:15	12° H 50'36	0°43'24	opposition	-2425 Oct 23 j 01:27	10° Y 23'59	-0°34'08
max. Earth dist.	-2431 Mar 24 j 02:19	12° H 51'20	20.64942 AU	min. Earth dist.	-2425 Oct 23 j 08:11	10° Y 23'16	18.23893 AU
morning rise	-2431 Apr 09 j 12:43	13° H 47'47		direct	-2424 Jan 05 j 14:24	8° Y 22'57	
retrograde	-2431 Jul 13 j 04:23	16° H 58'39		evening set	-2424 Apr 06 j 21:58	11° Y 34'03	
opposition	-2431 Sep 27 j 14:16	14° H 57'35	-0°47'19				
min. Earth dist.	-2431 Sep 27 j 10:02	14° H 58'01	18.61990 AU	conjunction	-2424 Apr 23 j 16:09	12° Y 32'57	-0°29'26
direct	-2431 Dec 11 j 02:50	12° H 58'31		minimum elong	-2424 Apr 23 j 16:09	12° Y 32'57	0°29'25
evening set	-2430 Mar 11 j 21:26	16° H 02'40		max. Earth dist.	-2424 Apr 23 j 07:19	12° Y 31'39	20.20493 AU
				morning rise	-2424 May 10 j 11:20	13° Y 32'03	
conjunction	-2430 Mar 28 j 10:49	16° H 59'41	-0°42'04	retrograde	-2424 Aug 12 j 12:21	16° Y 47'01	
minimum elong	-2430 Mar 28 j 10:49	16° H 59'41	0°42'04	opposition	-2424 Oct 26 j 13:35	14° Y 45'19	-0°31'07
max. Earth dist.	-2430 Mar 28 j 14:50	17° H 00'16	20.58987 AU	min. Earth dist.	-2424 Oct 26 j 22:04	14° Y 44'24	18.17041 AU
morning rise	-2430 Apr 14 j 02:56	17° H 57'08		direct	-2423 Jan 09 j 03:11	12° Y 43'55	
retrograde	-2430 Jul 17 j 17:02	21° H 08'31		evening set	-2423 Apr 11 j 17:39	15° Y 56'17	
opposition	-2430 Oct 01 j 22:45	19° H 07'19	-0°45'44				
min. Earth dist.	-2430 Oct 01 j 20:23	19° H 07'34	18.55953 AU	conjunction	-2423 Apr 28 j 12:14	16° Y 55'28	-0°26'37
direct	-2430 Dec 15 j 10:54	17° H 07'56		minimum elong	-2423 Apr 28 j 12:14	16° Y 55'28	0°26'36
evening set	-2429 Mar 16 j 11:06	20° H 13'06		max. Earth dist.	-2423 Apr 27 j 23:49	16° Y 53'38	20.13585 AU
				morning rise	-2423 May 15 j 07:51	17° Y 54'50	
conjunction	-2429 Apr 02 j 01:20	21° H 10'25	-0°40'30	retrograde	-2423 Aug 17 j 05:17	21° Y 10'24	
minimum elong	-2429 Apr 02 j 01:20	21° H 10'25	0°40'30	opposition	-2423 Oct 31 j 02:27	19° Y 08'34	-0°27'53
max. Earth dist.	-2429 Apr 02 j 02:34	21° H 10'35	20.52896 AU	min. Earth dist.	-2423 Oct 31 j 13:09	19° Y 07'25	18.10086 AU
morning rise	-2429 Apr 18 j 18:18	22° H 08'08		direct	-2422 Jan 13 j 17:55	17° Y 06'44	
retrograde	-2429 Jul 22 j 06:52	25° H 20'04		evening set	-2422 Apr 16 j 14:02	20° Y 20'22	
opposition	-2429 Oct 06 j 07:36	23° H 18'46	-0°43'54				
min. Earth dist.	-2429 Oct 06 j 06:42	23° H 18'52	18.49797 AU	conjunction	-2422 May 03 j 09:19	21° Y 19'53	-0°23'37
direct	-2429 Dec 19 j 19:25	21° H 19'02		minimum elong	-2422 May 03 j 09:19	21° Y 19'53	0°23'35
evening set	-2428 Mar 20 j 01:38	24° H 25'18		max. Earth dist.	-2422 May 02 j 19:48	21° Y 17'53	20.06588 AU
				morning rise	-2422 May 20 j 04:57	22° Y 19'30	
conjunction	-2428 Apr 05 j 16:51	25° H 22'56	-0°38'44	retrograde	-2422 Aug 21 j 22:36	25° Y 35'37	
minimum elong	-2428 Apr 05 j 16:51	25° H 22'56	0°38'44	opposition	-2422 Nov 04 j 15:58	23° Y 33'40	-0°24'28
max. Earth dist.	-2428 Apr 05 j 16:59	25° H 22'57	20.46673 AU	min. Earth dist.	-2422 Nov 05 j 04:07	23° Y 32'21	18.03059 AU
morning rise	-2428 Apr 22 j 10:17	26° H 20'55		direct	-2421 Jan 18 j 09:11	21° Y 31'23	
retrograde	-2428 Jul 25 j 21:14	29° H 33'26		evening set	-2421 Apr 21 j 11:37	24° Y 46'19	
opposition	-2428 Oct 09 j 17:08	27° H 32'04	-0°41'49				
min. Earth dist.	-2428 Oct 09 j 18:04	27° H 31'58	18.43511 AU	conjunction	-2421 May 08 j 07:08	25° Y 46'07	-0°20'27
direct	-2428 Dec 23 j 04:50	25° H 32'03		minimum elong	-2421 May 08 j 07:08	25° Y 46'07	0°20'25
evening set	-2427 Mar 24 j 17:05	28° H 39'26		max. Earth dist.	-2421 May 07 j 14:15	25° Y 43'36	19.99562 AU
				morning rise	-2421 May 25 j 02:59	26° Y 45'59	
conjunction	-2427 Apr 10 j 08:59	29° H 37'22	-0°36'44		-2421 Aug 16 j 18:30	0° B	
minimum elong	-2427 Apr 10 j 08:59	29° H 37'22	0°36'44	retrograde	-2421 Aug 26 j 16:08	0° B 02'39	
max. Earth dist.	-2427 Apr 10 j 06:08	29° H 36'57	20.40341 AU		-2421 Sep 05 j 15:40	30° R Y	
	-2427 Apr 16 j 19:58	0° Y		opposition	-2421 Nov 09 j 06:07	28° Y 00'32	-0°20'52
morning rise	-2427 Apr 27 j 03:08	0° Y 35'39		min. Earth dist.	-2421 Nov 09 j 20:32	27° Y 58'59	17.96058 AU
retrograde	-2427 Jul 30 j 12:12	3° Y 48'47		direct	-2420 Jan 23 j 01:33	25° Y 57'48	
opposition	-2427 Oct 14 j 03:16	1° Y 47'20	-0°39'30	evening set	-2420 Apr 25 j 09:51	29° Y 14'02	
min. Earth dist.	-2427 Oct 14 j 05:56	1° Y 47'03	18.37118 AU		-2420 May 08 j 07:43	0° B	
	-2427 Dec 05 j 08:17	30° R H					
direct	-2427 Dec 27 j 15:01	29° H 46'59		conjunction	-2420 May 12 j 05:50	0° B 14'07	-0°17'08
	-2426 Jan 18 j 20:05	0° Y		minimum elong	-2420 May 12 j 05:50	0° B 14'07	0°17'07
evening set	-2426 Mar 29 j 09:37	2° Y 55'35		max. Earth dist.	-2420 May 11 j 12:09	0° B 11'29	19.92594 AU
				morning rise	-2420 May 29 j 01:30	1° B 14'13	
conjunction	-2426 Apr 15 j 02:26	3° Y 53'51	-0°34'30	retrograde	-2420 Aug 30 j 11:05	4° B 31'25	
minimum elong	-2426 Apr 15 j 02:26	3° Y 53'51	0°34'30	opposition	-2420 Nov 12 j 21:02	2° B 29'10	-0°17'08
max. Earth dist.	-2426 Apr 14 j 22:24	3° Y 53'15	20.33876 AU	min. Earth dist.	-2420 Nov 13 j 12:23	2° B 27'30	17.89144 AU
morning rise	-2426 May 01 j 20:55	4° Y 52'24		direct	-2419 Jan 26 j 18:54	0° B 26'00	

Attention, astronomical year style is used: The year -2419 in astronomical counting style is the year 2420 BCE in historical counting style.

evening set	-2419 Apr 30 j 08:52	3° 8 43'29		conjunction	-2414 Jun 10 j 11:26	27° 8 38'26	0°04'41
max. Earth dist.	-2419 May 16 j 08:28	4° 8 40'47	19.85757 AU	minimum elong	-2414 Jun 10 j 11:26	27° 8 38'26	0°04'44
				behind sun begin	-2414 Jun 10 j 04:48	27° 8 37'27	
conjunction	-2419 May 17 j 04:55	4° 8 43'51	-0°13'43	behind sun end	-2414 Jun 10 j 18:03	27° 8 39'26	
minimum elong	-2419 May 17 j 04:55	4° 8 43'51	0°13'40	morning rise	-2414 Jun 27 j 04:52	28° 8 39'41	
behind sun begin	-2419 May 17 j 01:26	4° 8 43'20			-2414 Jul 20 j 19:37	0° II	
behind sun end	-2419 May 17 j 08:23	4° 8 44'21		retrograde	-2414 Sep 27 j 16:56	1° II 59'51	
morning rise	-2419 Jun 03 j 00:35	5° 8 44'11			-2414 Dec 09 j 05:23	30° R 8	
retrograde	-2419 Sep 04 j 05:35	9° 8 01'55		opposition	-2414 Dec 10 j 06:22	29° 8 57'16	0°07'12
opposition	-2419 Nov 17 j 12:44	6° 8 59'31	-0°13'16	min. Earth dist.	-2414 Dec 11 j 04:05	29° 8 54'53	17.53541 AU
min. Earth dist.	-2419 Nov 18 j 06:11	6° 8 57'38	17.82415 AU	direct	-2413 Feb 23 j 17:16	27° 8 51'59	
direct	-2418 Jan 31 j 12:20	4° 8 55'53			-2413 May 07 j 07:07	0° II	
evening set	-2418 May 05 j 08:42	8° 8 14'40		evening set	-2413 May 29 j 19:27	1° II 16'58	
max. Earth dist.	-2418 May 21 j 07:59	9° 8 12'08	19.79137 AU	max. Earth dist.	-2413 Jun 14 j 11:31	2° II 14'29	19.51165 AU
conjunction	-2418 May 22 j 05:01	9° 8 15'18	-0°10'11	conjunction	-2413 Jun 15 j 14:35	2° II 18'39	0°08'24
minimum elong	-2418 May 22 j 05:00	9° 8 15'18	0°10'09	minimum elong	-2413 Jun 15 j 14:35	2° II 18'39	0°08'27
behind sun begin	-2418 May 21 j 23:39	9° 8 14'30		behind sun begin	-2413 Jun 15 j 08:40	2° II 17'45	
behind sun end	-2418 May 22 j 10:22	9° 8 16'05		behind sun end	-2413 Jun 15 j 20:30	2° II 19'32	
morning rise	-2418 Jun 08 j 00:21	10° 8 15'51		morning rise	-2413 Jul 02 j 07:11	3° II 20'00	
retrograde	-2418 Sep 09 j 02:27	13° 8 34'04		retrograde	-2413 Oct 02 j 15:03	6° II 40'37	
opposition	-2418 Nov 22 j 04:57	11° 8 31'34	-0°09'18	opposition	-2413 Dec 15 j 02:50	4° II 38'06	0°11'21
min. Earth dist.	-2418 Nov 22 j 22:56	11° 8 29'37	17.75924 AU	min. Earth dist.	-2413 Dec 16 j 02:25	4° II 35'31	17.48929 AU
direct	-2417 Feb 05 j 07:34	9° 8 27'32		direct	-2412 Feb 28 j 14:57	2° II 32'35	
evening set	-2417 May 10 j 09:31	12° 8 47'36		evening set	-2412 Jun 02 j 23:39	5° II 58'42	
max. Earth dist.	-2417 May 26 j 06:24	13° 8 44'56	19.72790 AU				
conjunction	-2417 May 27 j 05:42	13° 8 48'28	-0°06'35	conjunction	-2412 Jun 19 j 18:11	7° II 00'31	0°12'05
minimum elong	-2417 May 27 j 05:42	13° 8 48'28	0°06'33	minimum elong	-2412 Jun 19 j 18:11	7° II 00'31	0°12'09
behind sun begin	-2417 May 26 j 23:20	13° 8 47'31		behind sun begin	-2412 Jun 19 j 13:42	6° II 59'51	
behind sun end	-2417 May 27 j 12:04	13° 8 49'24		behind sun end	-2412 Jun 19 j 22:39	7° II 01'12	
morning rise	-2417 Jun 13 j 00:45	14° 8 49'13		max. Earth dist.	-2412 Jun 18 j 14:03	6° II 56'10	19.46744 AU
	-2417 Jun 16 j 01:54	15° 8		morning rise	-2412 Jul 06 j 10:03	8° II 01'59	
retrograde	-2417 Sep 13 j 21:59	18° 8 07'56		retrograde	-2412 Oct 06 j 15:35	11° II 23'00	
opposition	-2417 Nov 26 j 22:14	16° 8 05'21	-0°05'14	opposition	-2412 Dec 19 j 00:00	9° II 20'32	0°15'27
min. Earth dist.	-2417 Nov 27 j 18:09	16° 8 03'11	17.69754 AU	min. Earth dist.	-2412 Dec 19 j 23:23	9° II 17'58	17.44699 AU
	-2417 Dec 23 j 05:58	15° R 8		direct	-2411 Mar 04 j 15:08	7° II 14'50	
direct	-2416 Feb 10 j 02:02	14° 8 00'56		evening set	-2411 Jun 08 j 04:11	10° II 41'59	
	-2416 Mar 29 j 01:05	15° 8					
evening set	-2416 May 14 j 10:48	17° 8 22'15		conjunction	-2411 Jun 24 j 22:10	11° II 43'55	0°15'43
max. Earth dist.	-2416 May 30 j 07:10	18° 8 19'44	19.66793 AU	minimum elong	-2411 Jun 24 j 22:10	11° II 43'55	0°15'47
				behind sun begin	-2411 Jun 24 j 22:02	11° II 43'54	
				behind sun end	-2411 Jun 24 j 22:17	11° II 43'56	
conjunction	-2416 May 31 j 06:57	18° 8 23'21	-0°02'55	max. Earth dist.	-2411 Jun 23 j 17:45	11° II 39'31	19.42686 AU
minimum elong	-2416 May 31 j 06:56	18° 8 23'21	0°02'53	morning rise	-2411 Jul 11 j 13:00	12° II 45'27	
behind sun begin	-2416 May 31 j 00:10	18° 8 22'21		retrograde	-2411 Oct 11 j 14:29	16° II 06'50	
behind sun end	-2416 May 31 j 13:43	18° 8 24'21		opposition	-2411 Dec 23 j 22:07	14° II 04'24	0°19'28
morning rise	-2416 Jun 17 j 01:30	19° 8 24'17		min. Earth dist.	-2411 Dec 24 j 23:07	14° II 01'40	17.40833 AU
retrograde	-2416 Sep 17 j 20:29	22° 8 43'30		direct	-2410 Mar 09 j 14:52	11° II 58'30	
opposition	-2416 Nov 30 j 16:07	20° 8 40'53	-0°01'07	evening set	-2410 Jun 13 j 09:22	15° II 26'37	
min. Earth dist.	-2416 Dec 01 j 12:03	20° 8 38'42	17.63946 AU	max. Earth dist.	-2410 Jun 28 j 20:41	16° II 24'00	19.39008 AU
direct	-2415 Feb 13 j 22:57	18° 8 36'08					
asc. node	-2415 Mar 10 j 16:53	18° 8 52'28		conjunction	-2410 Jun 30 j 02:29	16° II 28'38	0°19'16
evening set	-2415 May 19 j 12:59	21° 8 58'41		minimum elong	-2410 Jun 30 j 02:28	16° II 28'38	0°19'20
max. Earth dist.	-2415 Jun 04 j 07:30	22° 8 56'08	19.61178 AU	morning rise	-2410 Jul 16 j 16:28	17° II 30'13	
				retrograde	-2410 Oct 16 j 14:56	20° II 51'54	
conjunction	-2415 Jun 05 j 08:51	23° 8 00'00	0°00'54	opposition	-2410 Dec 28 j 20:41	18° II 49'30	0°23'22
minimum elong	-2415 Jun 05 j 08:51	23° 8 00'00	0°00'56	min. Earth dist.	-2410 Dec 29 j 21:24	18° II 46'48	17.37349 AU
behind sun begin	-2415 Jun 05 j 02:04	22° 8 59'00		direct	-2409 Mar 14 j 16:58	16° II 43'24	
behind sun end	-2415 Jun 05 j 15:38	23° 8 01'01		evening set	-2409 Jun 18 j 14:43	20° II 12'22	
morning rise	-2415 Jun 22 j 02:52	24° 8 01'06		max. Earth dist.	-2409 Jul 04 j 01:46	21° II 09'52	19.35714 AU
retrograde	-2415 Sep 22 j 17:14	27° 8 20'48					
opposition	-2415 Dec 05 j 10:52	25° 8 18'11	0°03'02	conjunction	-2409 Jul 05 j 07:07	21° II 14'27	0°22'42
min. Earth dist.	-2415 Dec 06 j 08:41	25° 8 15'48	17.58544 AU	minimum elong	-2409 Jul 05 j 07:06	21° II 14'27	0°22'46
direct	-2414 Feb 18 j 18:48	23° 8 13'08		morning rise	-2409 Jul 21 j 19:51	22° II 16'02	
evening set	-2414 May 24 j 15:50	26° 8 36'56		retrograde	-2409 Oct 21 j 14:23	25° II 37'57	
max. Earth dist.	-2414 Jun 09 j 09:20	27° 8 34'26	19.55981 AU	opposition	-2408 Jan 02 j 20:11	23° II 35'36	0°27'08
				min. Earth dist.	-2408 Jan 03 j 21:59	23° II 32'46	17.34268 AU

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Attention, astronomical year style is used: The year -2408 in astronomical counting style is the year 2409 BCE in historical counting style.

direct	-2408 Mar 18 j 19:11	21°II29'20		conjunction	-2402 Aug 08 j 10:09	24°☾47'11	0°41'13
evening set	-2408 Jun 22 j 20:08	24°II59'01		minimum elong	-2402 Aug 08 j 10:09	24°☾47'11	0°41'16
max. Earth dist.	-2408 Jul 08 j 04:58	25°II56'20	19.32858 AU	morning rise	-2402 Aug 24 j 14:27	25°☾48'12	
				retrograde	-2402 Nov 23 j 17:01	29°☾10'13	
conjunction	-2408 Jul 09 j 11:26	26°II01'07	0°25'59	opposition	-2401 Feb 05 j 04:13	27°☾08'08	0°46'54
minimum elong	-2408 Jul 09 j 11:26	26°II01'07	0°26'02	min. Earth dist.	-2401 Feb 06 j 01:39	27°☾05'49	17.28095 AU
morning rise	-2408 Jul 25 j 23:14	27°II02'42		direct	-2401 Apr 22 j 21:54	25°☾01'28	
	-2408 Sep 25 j 21:08	0°☾		evening set	-2401 Jul 28 j 05:19	28°☾32'54	
retrograde	-2408 Oct 25 j 14:26	0°☾24'49					
	-2408 Nov 24 j 19:23	30°RII		conjunction	-2401 Aug 13 j 12:34	29°☾34'21	0°42'50
opposition	-2407 Jan 06 j 20:04	28°II22'27	0°30'42	minimum elong	-2401 Aug 13 j 12:34	29°☾34'21	0°42'53
min. Earth dist.	-2407 Jan 07 j 21:19	28°II19'42	17.31650 AU	max. Earth dist.	-2401 Aug 12 j 13:34	29°☾30'43	19.28832 AU
direct	-2407 Mar 23 j 22:52	26°II16'01			-2401 Aug 20 j 06:35	0°♂	
evening set	-2407 Jun 28 j 01:32	29°II46'19		morning rise	-2401 Aug 29 j 15:35	0°♂35'12	
	-2407 Jul 01 j 18:26	0°☾		retrograde	-2401 Nov 28 j 17:42	3°♂57'04	
max. Earth dist.	-2407 Jul 13 j 10:47	0°☾43'50	19.30477 AU	opposition	-2400 Feb 10 j 06:35	1°♂55'08	0°48'33
				min. Earth dist.	-2400 Feb 11 j 02:00	1°♂53'01	17.29806 AU
conjunction	-2407 Jul 14 j 16:01	0°☾48'25	0°29'06		-2400 Apr 06 j 04:14	30°R☾	
minimum elong	-2407 Jul 14 j 16:01	0°☾48'25	0°29'09	direct	-2400 Apr 27 j 02:48	29°☾48'38	
morning rise	-2407 Jul 31 j 02:30	1°☾49'58			-2400 May 17 j 21:06	0°♂	
retrograde	-2407 Oct 30 j 14:13	5°☾12'11		evening set	-2400 Aug 01 j 08:20	3°♂19'50	
opposition	-2406 Jan 11 j 20:25	3°☾09'51	0°34'04				
min. Earth dist.	-2406 Jan 12 j 22:06	3°☾07'03	17.29523 AU	conjunction	-2400 Aug 17 j 14:16	4°♂21'06	0°44'10
direct	-2406 Mar 29 j 02:27	1°☾03'16		minimum elong	-2400 Aug 17 j 14:16	4°♂21'06	0°44'12
evening set	-2406 Jul 03 j 07:04	4°☾34'04		max. Earth dist.	-2400 Aug 16 j 16:41	4°♂17'41	19.30860 AU
				morning rise	-2400 Sep 02 j 16:03	5°♂21'44	
conjunction	-2406 Jul 19 j 20:18	5°☾36'07	0°32'00	retrograde	-2400 Dec 02 j 16:57	8°♂43'25	
minimum elong	-2406 Jul 19 j 20:18	5°☾36'07	0°32'04	opposition	-2399 Feb 14 j 09:08	6°♂41'38	0°49'51
max. Earth dist.	-2406 Jul 18 j 14:19	5°☾31'24	19.28624 AU	min. Earth dist.	-2399 Feb 15 j 03:57	6°♂39'36	17.32135 AU
morning rise	-2406 Aug 05 j 05:44	6°☾37'37		direct	-2399 May 02 j 06:27	4°♂35'21	
retrograde	-2406 Nov 04 j 14:41	9°☾59'54		evening set	-2399 Aug 06 j 10:54	8°♂06'13	
opposition	-2405 Jan 16 j 21:15	7°☾57'34	0°37'12				
min. Earth dist.	-2405 Jan 17 j 22:17	7°☾54'50	17.27958 AU	conjunction	-2399 Aug 22 j 15:33	9°♂07'15	0°45'11
direct	-2405 Apr 03 j 06:45	5°☾50'51		minimum elong	-2399 Aug 22 j 15:33	9°♂07'15	0°45'14
evening set	-2405 Jul 08 j 12:07	9°☾22'01		max. Earth dist.	-2399 Aug 21 j 19:43	9°♂04'07	19.33475 AU
max. Earth dist.	-2405 Jul 23 j 20:18	10°☾19'35	19.27346 AU	morning rise	-2399 Sep 07 j 16:10	10°♂07'41	
				retrograde	-2399 Dec 07 j 17:13	13°♂29'06	
conjunction	-2405 Jul 25 j 00:22	10°☾24'00	0°34'41				
minimum elong	-2405 Jul 25 j 00:22	10°☾24'00	0°34'45				
morning rise	-2405 Aug 10 j 08:24	11°☾25'25					
retrograde	-2405 Nov 09 j 15:03	14°☾47'42					
opposition	-2404 Jan 21 j 22:36	12°☾45'24	0°40'03				
min. Earth dist.	-2404 Jan 22 j 23:06	12°☾42'44	17.26984 AU				
direct	-2404 Apr 07 j 10:37	10°☾38'36					
evening set	-2404 Jul 12 j 17:05	14°☾10'00					
max. Earth dist.	-2404 Jul 27 j 23:55	15°☾07'28	19.26697 AU				
conjunction	-2404 Jul 29 j 03:59	15°☾11'54	0°37'07				
minimum elong	-2404 Jul 29 j 03:59	15°☾11'54	0°37'12				
morning rise	-2404 Aug 14 j 10:52	16°☾13'13					
retrograde	-2404 Nov 13 j 15:52	19°☾35'27					
opposition	-2403 Jan 26 j 00:09	17°☾33'11	0°42'39				
min. Earth dist.	-2403 Jan 26 j 23:48	17°☾30'36	17.26678 AU				
direct	-2403 Apr 12 j 14:23	15°☾26'21					
evening set	-2403 Jul 17 j 21:28	18°☾57'53					
max. Earth dist.	-2403 Aug 02 j 05:27	19°☾55'34	19.26727 AU				
conjunction	-2403 Aug 03 j 07:18	19°☾59'40	0°39'18				
minimum elong	-2403 Aug 03 j 07:18	19°☾59'40	0°39'21				
morning rise	-2403 Aug 19 j 12:50	21°☾00'50					
retrograde	-2403 Nov 18 j 16:36	24°☾22'59					
opposition	-2402 Jan 31 j 02:04	22°☾20'48	0°44'56				
min. Earth dist.	-2402 Feb 01 j 00:20	22°☾18'22	17.27039 AU				
direct	-2402 Apr 17 j 18:19	20°☾14'00					
evening set	-2402 Jul 23 j 01:42	23°☾45'33					
max. Earth dist.	-2402 Aug 07 j 08:58	24°☾43'11	19.27434 AU				