

Planetary Phenomena of Saturn from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -4900 in astronomical counting style is the year 4901 BCE in historical counting style.

	-4900 Jan 15 j 08:12	15° \mathbb{M}	direct	-4895 Oct 30 j 19:15	21° \mathbb{Z} 54'16	
retrograde	-4900 Apr 08 j 02:53	20° \mathbb{M} 12'12		-4894 Feb 09 j 05:04	0° \approx	
opposition	-4900 Jun 17 j 11:35	16° \mathbb{M} 46'47 0°19'50	evening set	-4894 Feb 10 j 21:33	0° \approx 13'13	
min. Earth dist.	-4900 Jun 17 j 22:05	16° \mathbb{M} 44'45 8.53040 AU				
	-4900 Jul 11 j 18:41	15° \mathbb{R} \mathbb{M}	conjunction	-4894 Feb 28 j 18:03	2° \approx 35'16 -2°14'08	
direct	-4900 Aug 24 j 15:50	13° \mathbb{M} 25'40	minimum elong	-4894 Feb 28 j 18:01	2° \approx 35'16 2°14'21	
	-4900 Oct 06 j 04:19	15° \mathbb{M}	max. Earth dist.	-4894 Mar 01 j 04:17	2° \approx 38'41 9.86338 AU	
evening set	-4900 Dec 02 j 10:35	20° \mathbb{M} 51'51	morning rise	-4894 Mar 18 j 18:18	4° \approx 58'34	
			retrograde	-4894 Jul 04 j 17:15	13° \approx 39'34	
conjunction	-4900 Dec 19 j 11:01	22° \mathbb{M} 59'13 0°00'26	opposition	-4894 Sep 09 j 20:33	10° \approx 07'41 -2°55'07	
minimum elong	-4900 Dec 19 j 11:01	22° \mathbb{M} 59'13 0°00'15	min. Earth dist.	-4894 Sep 09 j 10:57	10° \approx 09'42 7.84755 AU	
behind sun begin	-4900 Dec 19 j 03:58	22° \mathbb{M} 57'02	direct	-4894 Nov 14 j 13:00	6° \approx 39'15	
behind sun end	-4900 Dec 19 j 18:04	23° \mathbb{M} 01'25	evening set	-4893 Feb 26 j 13:46	15° \approx 04'29	
max. Earth dist.	-4900 Dec 18 j 22:34	22° \mathbb{M} 55'20 10.45293 AU		-4893 Feb 26 j 00:05	15° \approx	
desc. node	-4900 Dec 24 j 12:01	23° \mathbb{M} 37'13				
morning rise	-4899 Jan 05 j 16:25	25° \mathbb{M} 08'13	conjunction	-4893 Mar 16 j 13:09	17° \approx 27'45 -2°22'29	
	-4899 Feb 18 j 19:22	0° \mathbb{Z}	minimum elong	-4893 Mar 16 j 13:08	17° \approx 27'44 2°22'39	
retrograde	-4899 Apr 21 j 23:39	3° \mathbb{Z} 03'59	max. Earth dist.	-4893 Mar 17 j 03:21	17° \approx 32'30 9.83770 AU	
	-4899 Jun 26 j 00:07	30° \mathbb{R} \mathbb{M}	morning rise	-4893 Apr 03 j 15:15	19° \approx 51'51	
opposition	-4899 Jun 30 j 22:30	29° \mathbb{M} 36'49 -0°20'09	retrograde	-4893 Jul 19 j 23:24	28° \approx 31'30	
min. Earth dist.	-4899 Jul 01 j 06:53	29° \mathbb{M} 35'11 8.37361 AU	opposition	-4893 Sep 24 j 16:41	24° \approx 59'58 -2°59'38	
direct	-4899 Sep 06 j 11:08	26° \mathbb{M} 14'32	min. Earth dist.	-4893 Sep 24 j 04:44	25° \approx 02'29 7.84247 AU	
	-4899 Nov 12 j 06:13	0° \mathbb{Z}	direct	-4893 Nov 29 j 12:07	21° \approx 30'40	
evening set	-4899 Dec 15 j 14:04	3° \mathbb{Z} 51'11	evening set	-4892 Mar 13 j 09:06	29° \approx 58'45	
				-4892 Mar 13 j 12:57	0° \mathbb{H}	
conjunction	-4898 Jan 01 j 18:51	6° \mathbb{Z} 02'02 -0°32'10				
minimum elong	-4898 Jan 01 j 18:50	6° \mathbb{Z} 02'01 0°32'24	conjunction	-4892 Mar 31 j 10:47	2° \mathbb{H} 22'19 -2°21'21	
max. Earth dist.	-4898 Jan 01 j 09:40	5° \mathbb{Z} 59'06 10.29806 AU	minimum elong	-4892 Mar 31 j 10:48	2° \mathbb{H} 22'19 2°21'29	
morning rise	-4898 Jan 19 j 05:03	8° \mathbb{Z} 14'37	max. Earth dist.	-4892 Apr 01 j 03:51	2° \mathbb{H} 28'00 9.85284 AU	
retrograde	-4898 May 06 j 07:09	16° \mathbb{Z} 23'14	morning rise	-4892 Apr 18 j 13:59	4° \mathbb{H} 46'17	
opposition	-4898 Jul 14 j 18:04	12° \mathbb{Z} 54'28 -1°00'35	retrograde	-4892 Aug 03 j 00:06	13° \mathbb{H} 20'09	
min. Earth dist.	-4898 Jul 14 j 23:33	12° \mathbb{Z} 53'22 8.22301 AU	opposition	-4892 Oct 08 j 10:31	9° \mathbb{H} 49'24 -2°52'06	
direct	-4898 Sep 19 j 16:44	9° \mathbb{Z} 30'55	min. Earth dist.	-4892 Oct 07 j 21:17	9° \mathbb{H} 52'11 7.87721 AU	
evening set	-4898 Dec 29 j 07:45	17° \mathbb{Z} 18'49	direct	-4892 Dec 13 j 14:12	6° \mathbb{H} 19'30	
			evening set	-4891 Mar 29 j 03:23	14° \mathbb{H} 46'49	
conjunction	-4897 Jan 15 j 16:52	19° \mathbb{Z} 33'04 -1°04'01				
minimum elong	-4897 Jan 15 j 16:50	19° \mathbb{Z} 33'03 1°04'16	conjunction	-4891 Apr 16 j 06:35	17° \mathbb{H} 09'46 -2°10'57	
max. Earth dist.	-4897 Jan 15 j 12:09	19° \mathbb{Z} 31'32 10.15319 AU	minimum elong	-4891 Apr 16 j 06:38	17° \mathbb{H} 09'48 2°11'00	
morning rise	-4897 Feb 02 j 07:25	21° \mathbb{Z} 49'06	max. Earth dist.	-4891 Apr 17 j 00:50	17° \mathbb{H} 15'48 9.90675 AU	
	-4897 May 07 j 12:33	0° \mathbb{Z}	morning rise	-4891 May 04 j 09:56	19° \mathbb{H} 32'40	
retrograde	-4897 May 21 j 00:52	0° \mathbb{Z} 09'41	retrograde	-4891 Aug 17 j 16:11	27° \mathbb{H} 57'01	
	-4897 Jun 03 j 14:11	30° \mathbb{R} \mathbb{Z}	opposition	-4891 Oct 22 j 23:25	24° \mathbb{H} 27'28 -2°33'25	
opposition	-4897 Jul 28 j 21:42	26° \mathbb{Z} 39'35 -1°39'04	min. Earth dist.	-4891 Oct 22 j 09:46	24° \mathbb{H} 30'19 7.94803 AU	
min. Earth dist.	-4897 Jul 28 j 23:31	26° \mathbb{Z} 39'13 8.08710 AU	direct	-4891 Dec 28 j 15:34	20° \mathbb{H} 57'19	
direct	-4897 Oct 03 j 07:38	23° \mathbb{Z} 14'43	evening set	-4890 Apr 13 j 16:18	29° \mathbb{H} 20'37	
	-4896 Jan 02 j 22:00	0° \mathbb{Z}		-4890 Apr 18 j 18:40	0° \mathbb{Y}	
evening set	-4896 Jan 12 j 15:42	1° \mathbb{Z} 14'01				
conjunction	-4896 Jan 30 j 04:59	3° \mathbb{Z} 31'24 -1°33'05	conjunction	-4890 May 01 j 20:00	1° \mathbb{Y} 42'08 -1°52'17	
minimum elong	-4896 Jan 30 j 04:55	3° \mathbb{Z} 31'22 1°33'20	minimum elong	-4890 May 01 j 20:04	1° \mathbb{Y} 42'09 1°52'17	
max. Earth dist.	-4896 Jan 30 j 05:30	3° \mathbb{Z} 31'34 10.02708 AU	max. Earth dist.	-4890 May 02 j 14:09	1° \mathbb{Y} 48'04 9.99416 AU	
morning rise	-4896 Feb 16 j 23:22	5° \mathbb{Z} 50'30	morning rise	-4890 May 19 j 22:25	4° \mathbb{Y} 03'09	
retrograde	-4896 Jun 04 j 02:24	14° \mathbb{Z} 21'13	retrograde	-4890 Aug 31 j 22:08	12° \mathbb{Y} 15'32	
opposition	-4896 Aug 11 j 08:38	10° \mathbb{Z} 50'05 -2°12'48	opposition	-4890 Nov 06 j 05:49	8° \mathbb{Y} 47'32 -2°05'28	
min. Earth dist.	-4896 Aug 11 j 06:09	10° \mathbb{Z} 50'35 7.97444 AU	min. Earth dist.	-4890 Nov 05 j 16:04	8° \mathbb{Y} 50'22 8.04899 AU	
direct	-4896 Oct 16 j 08:49	7° \mathbb{Z} 23'56	direct	-4889 Jan 12 j 13:22	5° \mathbb{Y} 17'34	
evening set	-4895 Jan 26 j 12:57	15° \mathbb{Z} 33'54	evening set	-4889 Apr 28 j 20:28	13° \mathbb{Y} 34'11	
conjunction	-4895 Feb 13 j 06:05	17° \mathbb{Z} 53'57 -1°57'09	conjunction	-4889 May 16 j 23:30	15° \mathbb{Y} 53'33 -1°27'07	
minimum elong	-4895 Feb 13 j 06:01	17° \mathbb{Z} 53'56 1°57'23	minimum elong	-4889 May 16 j 23:34	15° \mathbb{Y} 53'34 1°27'03	
max. Earth dist.	-4895 Feb 13 j 11:42	17° \mathbb{Z} 55'49 9.92813 AU	max. Earth dist.	-4889 May 17 j 17:03	15° \mathbb{Y} 59'13 10.10873 AU	
morning rise	-4895 Mar 03 j 03:45	20° \mathbb{Z} 15'32	morning rise	-4889 Jun 03 j 23:53	18° \mathbb{Y} 12'00	
retrograde	-4895 Jun 19 j 09:04	28° \mathbb{Z} 53'23	retrograde	-4889 Sep 14 j 16:50	26° \mathbb{Y} 11'08	
opposition	-4895 Aug 26 j 01:02	25° \mathbb{Z} 21'38 -2°38'58	opposition	-4889 Nov 20 j 04:24	22° \mathbb{Y} 44'53 -1°30'46	
min. Earth dist.	-4895 Aug 25 j 18:35	25° \mathbb{Z} 22'58 7.89264 AU	min. Earth dist.	-4889 Nov 19 j 14:59	22° \mathbb{Y} 47'38 8.17396 AU	
			direct	-4888 Jan 27 j 04:33	19° \mathbb{Y} 15'28	

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Attention, astronomical year style is used: The year -4888 in astronomical counting style is the year 4889 BCE in historical counting style.

evening set	-4888 May 12 j 14:01	27° Υ 23'26		min. Earth dist.	-4882 Feb 02 j 18:22	7° \ominus 34'08	9.02330 AU
				direct	-4882 Apr 15 j 07:20	4° \ominus 11'23	
conjunction	-4888 May 30 j 15:08	29° Υ 40'03	-0°57'31	evening set	-4882 Jul 28 j 09:15	11° \ominus 22'50	
minimum elong	-4888 May 30 j 15:11	29° Υ 40'04	0°57'24				
max. Earth dist.	-4888 May 31 j 07:27	29° Υ 45'14	10.24398 AU	conjunction	-4882 Aug 14 j 06:33	13° \ominus 20'30	1°51'37
	-4888 Jun 02 j 05:56	0° \mathcal{B}		minimum elong	-4882 Aug 14 j 06:30	13° \ominus 20'29	1°51'53
morning rise	-4888 Jun 17 j 12:22	1° \mathcal{B} 55'24		max. Earth dist.	-4882 Aug 14 j 04:36	13° \ominus 19'56	11.07372 AU
retrograde	-4888 Sep 27 j 01:43	9° \mathcal{B} 40'53		morning rise	-4882 Aug 30 j 23:08	15° \ominus 16'53	
opposition	-4888 Dec 02 j 18:23	6° \mathcal{B} 16'28	-0°52'05	retrograde	-4882 Dec 07 j 08:20	22° \ominus 06'22	
min. Earth dist.	-4888 Dec 02 j 06:06	6° \mathcal{B} 18'57	8.31616 AU	opposition	-4881 Feb 14 j 15:09	18° \ominus 50'12	2°26'28
direct	-4887 Feb 09 j 10:58	2° \mathcal{B} 47'50		min. Earth dist.	-4881 Feb 14 j 18:28	18° \ominus 49'35	9.11995 AU
evening set	-4887 May 26 j 19:29	10° \mathcal{B} 45'58		direct	-4881 Apr 27 j 08:46	15° \ominus 28'37	
				evening set	-4881 Aug 08 j 21:21	22° \ominus 33'42	
conjunction	-4887 Jun 13 j 17:24	12° \mathcal{B} 59'23	-0°25'38				
minimum elong	-4887 Jun 13 j 17:25	12° \mathcal{B} 59'24	0°25'28	conjunction	-4881 Aug 25 j 14:10	24° \ominus 29'18	2°07'41
max. Earth dist.	-4887 Jun 14 j 07:46	13° \mathcal{B} 03'52	10.39240 AU	minimum elong	-4881 Aug 25 j 14:08	24° \ominus 29'17	2°07'56
	-4887 Jun 29 j 21:33	15° \mathcal{B}		max. Earth dist.	-4881 Aug 25 j 08:22	24° \ominus 27'37	11.15761 AU
morning rise	-4887 Jul 01 j 10:30	15° \mathcal{B} 11'19		morning rise	-4881 Sep 11 j 03:07	26° \ominus 23'48	
retrograde	-4887 Oct 09 j 23:53	22° \mathcal{B} 43'36			-4881 Oct 15 j 15:15	0° \mathcal{Q}	
opposition	-4887 Dec 15 j 23:57	19° \mathcal{B} 21'02	-0°12'02	retrograde	-4881 Dec 18 j 13:51	3° \mathcal{Q} 10'17	
min. Earth dist.	-4887 Dec 15 j 13:56	19° \mathcal{B} 23'01	8.46790 AU		-4880 Feb 25 j 03:30	30° $\mathcal{R}\mathcal{A}$	
direct	-4886 Feb 23 j 08:54	15° \mathcal{B} 53'24		opposition	-4880 Feb 26 j 08:48	29° \ominus 54'37	2°42'55
asc. node	-4886 Apr 09 j 11:01	17° \mathcal{B} 33'03		min. Earth dist.	-4880 Feb 26 j 15:05	29° \ominus 53'28	9.19169 AU
evening set	-4886 Jun 09 j 12:03	23° \mathcal{B} 41'09		direct	-4880 May 08 j 06:09	26° \ominus 34'04	
					-4880 Jul 15 j 21:17	0° \mathcal{Q}	
conjunction	-4886 Jun 27 j 05:40	25° \mathcal{B} 51'08	0°06'41	evening set	-4880 Aug 19 j 03:15	3° \mathcal{Q} 34'12	
minimum elong	-4886 Jun 27 j 05:39	25° \mathcal{B} 51'08	0°06'53				
behind sun begin	-4886 Jun 26 j 22:57	25° \mathcal{B} 49'06		conjunction	-4880 Sep 04 j 16:25	5° \mathcal{Q} 28'13	2°18'48
behind sun end	-4886 Jun 27 j 12:21	25° \mathcal{B} 53'10		minimum elong	-4880 Sep 04 j 16:23	5° \mathcal{Q} 28'13	2°19'02
max. Earth dist.	-4886 Jun 27 j 17:00	25° \mathcal{B} 54'37	10.54606 AU	max. Earth dist.	-4880 Sep 04 j 07:28	5° \mathcal{Q} 25'38	11.21549 AU
morning rise	-4886 Jul 14 j 18:01	27° \mathcal{B} 59'32		morning rise	-4880 Sep 21 j 02:30	7° \mathcal{Q} 21'23	
	-4886 Jul 31 j 23:16	0° \mathcal{I}		retrograde	-4880 Dec 28 j 21:18	14° \mathcal{Q} 06'46	
retrograde	-4886 Oct 22 j 10:35	5° \mathcal{I} 19'47		opposition	-4879 Mar 09 j 00:37	10° \mathcal{Q} 51'16	2°53'16
opposition	-4886 Dec 28 j 21:11	1° \mathcal{I} 58'58	0°27'09	min. Earth dist.	-4879 Mar 09 j 08:35	10° \mathcal{Q} 49'49	9.23617 AU
min. Earth dist.	-4886 Dec 28 j 13:54	2° \mathcal{I} 00'23	8.62140 AU	direct	-4879 May 19 j 23:35	7° \mathcal{Q} 31'41	
	-4885 Jan 24 j 23:38	30° $\mathcal{R}\mathcal{B}$		evening set	-4879 Aug 30 j 04:40	14° \mathcal{Q} 28'10	
direct	-4885 Mar 08 j 22:19	28° \mathcal{B} 32'28			-4879 Sep 03 j 20:46	15° \mathcal{Q}	
	-4885 Apr 20 j 11:40	0° \mathcal{I}					
evening set	-4885 Jun 22 j 16:03	6° \mathcal{I} 09'58		conjunction	-4879 Sep 15 j 15:15	16° \mathcal{Q} 21'15	2°24'47
				minimum elong	-4879 Sep 15 j 15:14	16° \mathcal{Q} 21'15	2°24'58
conjunction	-4885 Jul 10 j 04:39	8° \mathcal{I} 16'30	0°37'36	max. Earth dist.	-4879 Sep 15 j 04:48	16° \mathcal{Q} 18'14	11.24553 AU
minimum elong	-4885 Jul 10 j 04:38	8° \mathcal{I} 16'29	0°37'50	morning rise	-4879 Oct 01 j 23:19	18° \mathcal{Q} 13'41	
max. Earth dist.	-4885 Jul 10 j 11:57	8° \mathcal{I} 18'42	10.69740 AU	retrograde	-4878 Jan 09 j 04:35	24° \mathcal{Q} 59'42	
morning rise	-4885 Jul 27 j 12:01	10° \mathcal{I} 21'26		opposition	-4878 Mar 20 j 16:05	21° \mathcal{Q} 44'05	2°57'21
retrograde	-4885 Nov 03 j 12:51	17° \mathcal{I} 31'12		min. Earth dist.	-4878 Mar 21 j 01:44	21° \mathcal{Q} 42'20	9.25204 AU
opposition	-4884 Jan 10 j 10:31	14° \mathcal{I} 11'56	1°03'43	direct	-4878 May 31 j 11:10	18° \mathcal{Q} 25'17	
min. Earth dist.	-4884 Jan 10 j 05:46	14° \mathcal{I} 12'51	8.76930 AU	evening set	-4878 Sep 10 j 03:20	25° \mathcal{Q} 19'33	
direct	-4884 Mar 21 j 02:22	10° \mathcal{I} 46'40					
evening set	-4884 Jul 04 j 08:08	18° \mathcal{I} 14'31		conjunction	-4878 Sep 26 j 12:13	27° \mathcal{Q} 12'15	2°25'32
				minimum elong	-4878 Sep 26 j 12:13	27° \mathcal{Q} 12'15	2°25'41
conjunction	-4884 Jul 21 j 15:30	20° \mathcal{I} 17'45	1°06'01	max. Earth dist.	-4878 Sep 25 j 23:49	27° \mathcal{Q} 08'40	11.24679 AU
minimum elong	-4884 Jul 21 j 15:28	20° \mathcal{I} 17'44	1°06'15	morning rise	-4878 Oct 12 j 19:25	29° \mathcal{Q} 04'34	
max. Earth dist.	-4884 Jul 21 j 19:04	20° \mathcal{I} 18'49	10.83952 AU		-4878 Oct 21 j 02:05	0° \mathcal{P}	
morning rise	-4884 Aug 07 j 17:44	22° \mathcal{I} 19'26		retrograde	-4877 Jan 20 j 14:56	5° \mathcal{P} 52'58	
retrograde	-4884 Nov 14 j 07:49	29° \mathcal{I} 20'33		opposition	-4877 Apr 01 j 08:25	2° \mathcal{P} 36'57	2°55'07
opposition	-4883 Jan 21 j 17:12	26° \mathcal{I} 02'34	1°36'21	min. Earth dist.	-4877 Apr 01 j 20:22	2° \mathcal{P} 34'47	9.23874 AU
min. Earth dist.	-4883 Jan 21 j 14:31	26° \mathcal{I} 03'04	8.90505 AU		-4877 May 12 j 21:58	30° $\mathcal{R}\mathcal{Q}$	
direct	-4883 Apr 02 j 20:51	22° \mathcal{I} 38'35		direct	-4877 Jun 11 j 22:25	29° \mathcal{Q} 18'42	
evening set	-4883 Jul 16 j 13:21	29° \mathcal{I} 57'39			-4877 Jul 11 j 11:03	0° \mathcal{P}	
	-4883 Jul 16 j 21:28	0° \mathcal{A}		evening set	-4877 Sep 21 j 01:17	6° \mathcal{P} 12'12	
conjunction	-4883 Aug 02 j 15:33	1° \mathcal{A} 57'54	1°30'54	conjunction	-4877 Oct 07 j 09:20	8° \mathcal{P} 05'07	2°21'01
minimum elong	-4883 Aug 02 j 15:30	1° \mathcal{A} 57'53	1°31'10	minimum elong	-4877 Oct 07 j 09:21	8° \mathcal{P} 05'08	2°21'08
max. Earth dist.	-4883 Aug 02 j 16:32	1° \mathcal{A} 58'11	10.96651 AU	max. Earth dist.	-4877 Oct 06 j 18:18	8° \mathcal{P} 00'46	11.21920 AU
morning rise	-4883 Aug 19 j 12:42	3° \mathcal{A} 56'43		morning rise	-4877 Oct 23 j 16:51	9° \mathcal{P} 57'56	
retrograde	-4883 Nov 25 j 21:57	10° \mathcal{A} 51'05		retrograde	-4876 Feb 01 j 03:16	16° \mathcal{P} 50'22	
opposition	-4882 Feb 02 j 18:23	7° \mathcal{A} 34'08	2°04'09	opposition	-4876 Apr 12 j 02:46	13° \mathcal{P} 33'40	2°46'34

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Attention, astronomical year style is used: The year -4876 in astronomical counting style is the year 4877 BCE in historical counting style.

min. Earth dist.	-4876 Apr 12 j 16:31	13° $\overline{\text{M}}$ 31'09	9.19667 AU	opposition	-4870 Jun 25 j 05:06	24° $\overline{\text{M}}$ 00'18	-0°01'59
direct	-4876 Jun 22 j 08:28	10° $\overline{\text{M}}$ 15'45		min. Earth dist.	-4870 Jun 25 j 14:50	23° $\overline{\text{M}}$ 58'25	8.47294 AU
evening set	-4876 Oct 01 j 00:06	17° $\overline{\text{M}}$ 09'58		direct	-4870 Sep 01 j 02:32	20° $\overline{\text{M}}$ 39'12	
				evening set	-4870 Dec 09 j 23:36	28° $\overline{\text{M}}$ 09'37	
conjunction	-4876 Oct 17 j 08:29	19° $\overline{\text{M}}$ 03'40	2°11'18		-4870 Dec 24 j 15:48	0° $\overline{\text{Z}}$	
minimum elong	-4876 Oct 17 j 08:31	19° $\overline{\text{M}}$ 03'41	2°11'23				
max. Earth dist.	-4876 Oct 16 j 16:40	18° $\overline{\text{M}}$ 59'03	11.16360 AU	conjunction	-4870 Dec 27 j 02:19	0° $\overline{\text{Z}}$ 18'30	-0°17'28
morning rise	-4876 Nov 02 j 17:16	20° $\overline{\text{M}}$ 57'34		minimum elong	-4870 Dec 27 j 02:18	0° $\overline{\text{Z}}$ 18'30	0°17'41
retrograde	-4875 Feb 11 j 22:32	27° $\overline{\text{M}}$ 55'45		max. Earth dist.	-4870 Dec 26 j 15:50	0° $\overline{\text{Z}}$ 15'12	10.39503 AU
opposition	-4875 Apr 24 j 00:34	24° $\overline{\text{M}}$ 38'02	2°31'48	morning rise	-4869 Jan 13 j 09:57	2° $\overline{\text{Z}}$ 29'02	
min. Earth dist.	-4875 Apr 24 j 14:34	24° $\overline{\text{M}}$ 35'28	9.12711 AU	retrograde	-4869 Apr 30 j 03:26	10° $\overline{\text{Z}}$ 30'24	
direct	-4875 Jul 03 j 21:42	21° $\overline{\text{M}}$ 20'13		opposition	-4869 Jul 08 j 19:48	7° $\overline{\text{Z}}$ 02'56	-0°42'21
evening set	-4875 Oct 12 j 01:35	28° $\overline{\text{M}}$ 16'35		min. Earth dist.	-4869 Jul 09 j 02:35	7° $\overline{\text{Z}}$ 01'36	8.31604 AU
	-4875 Oct 26 j 19:42	0° $\overline{\text{Z}}$		direct	-4869 Sep 14 j 01:19	3° $\overline{\text{Z}}$ 40'32	
				evening set	-4869 Dec 23 j 09:46	11° $\overline{\text{Z}}$ 21'53	
conjunction	-4875 Oct 28 j 11:23	0° $\overline{\text{Z}}$ 11'42	1°56'32				
minimum elong	-4875 Oct 28 j 11:26	0° $\overline{\text{Z}}$ 11'42	1°56'34	conjunction	-4868 Jan 09 j 16:41	13° $\overline{\text{Z}}$ 34'13	-0°49'47
max. Earth dist.	-4875 Oct 27 j 19:49	0° $\overline{\text{Z}}$ 07'06	11.08159 AU	minimum elong	-4868 Jan 09 j 16:39	13° $\overline{\text{Z}}$ 34'12	0°50'01
morning rise	-4875 Nov 13 j 22:18	2° $\overline{\text{Z}}$ 07'14		max. Earth dist.	-4868 Jan 09 j 09:06	13° $\overline{\text{Z}}$ 31'47	10.24134 AU
retrograde	-4874 Feb 24 j 01:07	9° $\overline{\text{Z}}$ 12'44		morning rise	-4868 Jan 27 j 04:57	15° $\overline{\text{Z}}$ 48'19	
opposition	-4874 May 06 j 02:52	5° $\overline{\text{Z}}$ 53'46	2°11'00	retrograde	-4868 May 13 j 16:41	24° $\overline{\text{Z}}$ 02'14	
min. Earth dist.	-4874 May 06 j 16:32	5° $\overline{\text{Z}}$ 51'14	9.03219 AU	opposition	-4868 Jul 21 j 19:03	20° $\overline{\text{Z}}$ 33'10	-1°21'55
direct	-4874 Jul 15 j 11:26	2° $\overline{\text{Z}}$ 35'49		min. Earth dist.	-4868 Jul 21 j 22:47	20° $\overline{\text{Z}}$ 32'25	8.16853 AU
evening set	-4874 Oct 23 j 08:03	9° $\overline{\text{Z}}$ 35'52		direct	-4868 Sep 26 j 10:03	17° $\overline{\text{Z}}$ 09'18	
				evening set	-4867 Jan 05 j 10:14	25° $\overline{\text{Z}}$ 02'08	
conjunction	-4874 Nov 08 j 19:59	11° $\overline{\text{Z}}$ 32'53	1°36'59				
minimum elong	-4874 Nov 08 j 20:02	11° $\overline{\text{Z}}$ 32'53	1°36'56	conjunction	-4867 Jan 22 j 21:19	27° $\overline{\text{Z}}$ 17'45	-1°20'18
max. Earth dist.	-4874 Nov 08 j 03:54	11° $\overline{\text{Z}}$ 28'05	10.97573 AU	minimum elong	-4867 Jan 22 j 21:16	27° $\overline{\text{Z}}$ 17'44	1°20'33
morning rise	-4874 Nov 25 j 10:02	13° $\overline{\text{Z}}$ 30'38		max. Earth dist.	-4867 Jan 22 j 17:22	27° $\overline{\text{Z}}$ 16'28	10.10136 AU
retrograde	-4873 Mar 08 j 10:16	20° $\overline{\text{Z}}$ 44'55		morning rise	-4867 Feb 09 j 13:52	29° $\overline{\text{Z}}$ 35'10	
opposition	-4873 May 18 j 10:37	17° $\overline{\text{Z}}$ 24'28	1°44'30		-4867 Feb 12 j 20:01	0° $\overline{\text{Z}}$	
min. Earth dist.	-4873 May 19 j 00:25	17° $\overline{\text{Z}}$ 21'54	8.91497 AU	retrograde	-4867 May 28 j 13:14	8° $\overline{\text{Z}}$ 00'15	
direct	-4873 Jul 27 j 04:50	14° $\overline{\text{Z}}$ 06'06		opposition	-4867 Aug 05 j 01:53	4° $\overline{\text{Z}}$ 29'50	-1°58'05
evening set	-4873 Nov 03 j 21:12	21° $\overline{\text{Z}}$ 11'25		min. Earth dist.	-4867 Aug 05 j 02:35	4° $\overline{\text{Z}}$ 29'41	8.03949 AU
				direct	-4867 Oct 10 j 06:36	1° $\overline{\text{Z}}$ 04'27	
conjunction	-4873 Nov 20 j 11:57	23° $\overline{\text{Z}}$ 10'50	1°13'03	evening set	-4866 Jan 20 j 00:34	9° $\overline{\text{Z}}$ 08'30	
minimum elong	-4873 Nov 20 j 12:00	23° $\overline{\text{Z}}$ 10'51	1°12'57				
max. Earth dist.	-4873 Nov 19 j 19:35	23° $\overline{\text{Z}}$ 05'54	10.84949 AU	conjunction	-4866 Feb 06 j 15:39	11° $\overline{\text{Z}}$ 27'05	-1°46'52
morning rise	-4873 Dec 07 j 05:55	25° $\overline{\text{Z}}$ 11'16		minimum elong	-4866 Feb 06 j 15:35	11° $\overline{\text{Z}}$ 27'04	1°47'07
	-4872 Jan 22 j 08:06	0° $\overline{\text{M}}$		max. Earth dist.	-4866 Feb 06 j 16:13	11° $\overline{\text{Z}}$ 27'16	9.98388 AU
retrograde	-4872 Mar 20 j 04:56	2° $\overline{\text{M}}$ 35'47		morning rise	-4866 Feb 24 j 11:52	13° $\overline{\text{Z}}$ 47'20	
	-4872 May 19 j 16:44	30° $\overline{\text{R}}$ $\overline{\text{Z}}$		retrograde	-4866 Jun 12 j 15:57	22° $\overline{\text{Z}}$ 21'12	
opposition	-4872 May 30 j 01:09	29° $\overline{\text{Z}}$ 13'41	1°12'53	opposition	-4866 Aug 19 j 15:07	18° $\overline{\text{Z}}$ 49'46	-2°28'01
min. Earth dist.	-4872 May 30 j 14:42	29° $\overline{\text{Z}}$ 11'08	8.77939 AU	min. Earth dist.	-4866 Aug 19 j 12:31	18° $\overline{\text{Z}}$ 50'18	7.93716 AU
direct	-4872 Aug 07 j 04:58	25° $\overline{\text{Z}}$ 54'36		direct	-4866 Oct 24 j 12:50	15° $\overline{\text{Z}}$ 22'54	
	-4872 Oct 18 j 03:06	0° $\overline{\text{M}}$		evening set	-4865 Feb 04 j 03:03	23° $\overline{\text{Z}}$ 37'00	
evening set	-4872 Nov 14 j 18:45	3° $\overline{\text{M}}$ 06'44					
				conjunction	-4865 Feb 21 j 21:47	25° $\overline{\text{Z}}$ 57'59	-2°07'20
conjunction	-4872 Dec 01 j 13:05	5° $\overline{\text{M}}$ 08'59	0°45'21	minimum elong	-4865 Feb 21 j 21:45	25° $\overline{\text{Z}}$ 57'58	2°07'34
minimum elong	-4872 Dec 01 j 13:07	5° $\overline{\text{M}}$ 09'00	0°45'13	max. Earth dist.	-4865 Feb 22 j 03:28	25° $\overline{\text{Z}}$ 59'52	9.89674 AU
max. Earth dist.	-4872 Nov 30 j 21:58	5° $\overline{\text{M}}$ 04'21	10.70696 AU	morning rise	-4865 Mar 11 j 20:55	28° $\overline{\text{Z}}$ 20'23	
morning rise	-4872 Dec 18 j 11:25	7° $\overline{\text{M}}$ 12'31			-4865 Mar 24 j 20:53	0° $\overline{\text{Z}}$	
retrograde	-4871 Apr 02 j 08:50	14° $\overline{\text{M}}$ 48'31		retrograde	-4865 Jun 27 j 22:01	6° $\overline{\text{Z}}$ 59'37	
opposition	-4871 Jun 11 j 23:08	11° $\overline{\text{M}}$ 24'37	0°36'59	opposition	-4865 Sep 03 j 08:37	3° $\overline{\text{Z}}$ 27'37	-2°49'04
min. Earth dist.	-4871 Jun 12 j 11:23	11° $\overline{\text{M}}$ 22'17	8.63007 AU	min. Earth dist.	-4865 Sep 03 j 02:24	3° $\overline{\text{Z}}$ 28'55	7.86841 AU
direct	-4871 Aug 19 j 11:39	8° $\overline{\text{M}}$ 04'37			-4865 Nov 04 j 23:13	30° $\overline{\text{R}}$ $\overline{\text{Z}}$	
	-4871 Nov 23 j 15:47	15° $\overline{\text{M}}$		direct	-4865 Nov 08 j 02:54	29° $\overline{\text{Z}}$ 59'25	
evening set	-4871 Nov 27 j 02:59	15° $\overline{\text{M}}$ 25'10			-4865 Nov 11 j 06:24	0° $\overline{\text{Z}}$	
				evening set	-4864 Feb 19 j 15:00	8° $\overline{\text{Z}}$ 21'23	
conjunction	-4871 Dec 14 j 01:26	17° $\overline{\text{M}}$ 30'37	0°14'49				
minimum elong	-4871 Dec 14 j 01:27	17° $\overline{\text{M}}$ 30'37	0°14'38	conjunction	-4864 Mar 08 j 13:02	10° $\overline{\text{Z}}$ 44'04	-2°19'51
behind sun begin	-4871 Dec 13 j 22:21	17° $\overline{\text{M}}$ 29'40		minimum elong	-4864 Mar 08 j 13:00	10° $\overline{\text{Z}}$ 44'03	2°20'03
behind sun end	-4871 Dec 14 j 04:33	17° $\overline{\text{M}}$ 31'34		max. Earth dist.	-4864 Mar 08 j 23:36	10° $\overline{\text{Z}}$ 47'36	9.84617 AU
max. Earth dist.	-4871 Dec 13 j 12:38	17° $\overline{\text{M}}$ 26'39	10.55315 AU	morning rise	-4864 Mar 26 j 14:22	13° $\overline{\text{Z}}$ 07'48	
morning rise	-4871 Dec 31 j 04:21	19° $\overline{\text{M}}$ 37'33			-4864 Apr 10 j 05:20	15° $\overline{\text{Z}}$	
retrograde	-4870 Apr 16 j 00:12	27° $\overline{\text{M}}$ 26'01		retrograde	-4864 Jul 12 j 04:30	21° $\overline{\text{Z}}$ 48'12	
desc. node	-4870 Jun 06 j 10:04	25° $\overline{\text{M}}$ 25'05		opposition	-4864 Sep 17 j 04:01	18° $\overline{\text{Z}}$ 16'08	-2°59'11

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Attention, astronomical year style is used: The year -4864 in astronomical counting style is the year 4865 BCE in historical counting style.

min. Earth dist.	-4864 Sep 16 j 18:27	18° \approx 18'08	7.83806 AU	max. Earth dist.	-4858 Jun 08 j 04:58	7° \approx 07'03	10.30978 AU
	-4864 Nov 06 j 20:38	15° \approx		morning rise	-4858 Jun 25 j 09:05	9° \approx 15'57	
direct	-4864 Nov 21 j 22:50	14° \approx 46'48			-4858 Aug 18 j 19:39	15° \approx	
	-4864 Dec 07 j 00:12	15° \approx		retrograde	-4858 Oct 04 j 08:26	16° \approx 54'39	
evening set	-4863 Mar 06 j 08:36	23° \approx 13'38			-4858 Nov 21 j 01:19	15° \approx	
				opposition	-4858 Dec 10 j 05:55	13° \approx 30'49	-0°31'01
conjunction	-4863 Mar 24 j 09:24	25° \approx 37'11	-2°23'12	min. Earth dist.	-4858 Dec 09 j 18:19	13° \approx 33'08	8.38577 AU
minimum elong	-4863 Mar 24 j 09:25	25° \approx 37'11	2°23'21	direct	-4857 Feb 17 j 07:58	10° \approx 02'19	
max. Earth dist.	-4863 Mar 25 j 00:04	25° \approx 42'05	9.83574 AU		-4857 May 09 j 06:34	15° \approx	
morning rise	-4863 Apr 11 j 12:12	28° \approx 01'21		evening set	-4857 Jun 03 j 12:39	17° \approx 55'12	
	-4863 Apr 27 j 00:16	0° \approx					
retrograde	-4863 Jul 27 j 08:17	6° \approx 38'26		conjunction	-4857 Jun 21 j 08:28	20° \approx 06'56	-0°08'36
opposition	-4863 Oct 01 j 22:41	3° \approx 06'48	-2°57'19	minimum elong	-4857 Jun 21 j 08:28	20° \approx 06'56	0°08'25
min. Earth dist.	-4863 Oct 01 j 10:29	3° \approx 09'22	7.84803 AU	behind sun begin	-4857 Jun 21 j 02:08	20° \approx 04'59	
	-4863 Nov 16 j 18:24	30° \approx		behind sun end	-4857 Jun 21 j 14:47	20° \approx 08'52	
direct	-4863 Dec 06 j 23:05	29° \approx 36'39		max. Earth dist.	-4857 Jun 21 j 21:20	20° \approx 10'54	10.46522 AU
	-4863 Dec 27 j 03:23	0° \approx		morning rise	-4857 Jul 08 j 23:24	22° \approx 17'06	
evening set	-4862 Mar 22 j 03:30	8° \approx 04'51		asc. node	-4857 Sep 29 j 15:38	29° \approx 26'38	
				retrograde	-4857 Oct 17 j 00:07	29° \approx 43'07	
conjunction	-4862 Apr 09 j 06:17	10° \approx 28'19	-2°17'05	opposition	-4857 Dec 23 j 06:53	26° \approx 21'13	0°08'52
minimum elong	-4862 Apr 09 j 06:20	10° \approx 28'20	2°17'10	min. Earth dist.	-4857 Dec 22 j 20:47	26° \approx 23'13	8.54272 AU
max. Earth dist.	-4862 Apr 09 j 23:55	10° \approx 34'11	9.86596 AU	direct	-4856 Mar 02 j 01:41	22° \approx 54'00	
morning rise	-4862 Apr 27 j 09:36	12° \approx 51'57			-4856 Jun 10 j 19:31	0° \approx	
retrograde	-4862 Aug 11 j 05:10	21° \approx 21'36		evening set	-4856 Jun 15 j 22:40	0° \approx 36'30	
opposition	-4862 Oct 16 j 13:58	17° \approx 50'53	-2°43'44				
min. Earth dist.	-4862 Oct 16 j 00:09	17° \approx 53'47	7.89739 AU	conjunction	-4856 Jul 03 j 13:55	2° \approx 44'44	0°23'15
direct	-4862 Dec 22 j 00:18	14° \approx 20'17		minimum elong	-4856 Jul 03 j 13:54	2° \approx 44'43	0°23'28
evening set	-4861 Apr 06 j 19:14	22° \approx 46'16		max. Earth dist.	-4856 Jul 04 j 00:27	2° \approx 47'56	10.62203 AU
				morning rise	-4856 Jul 20 j 23:45	4° \approx 51'21	
conjunction	-4861 Apr 24 j 23:01	25° \approx 08'46	-2°02'08	retrograde	-4856 Oct 28 j 08:13	12° \approx 06'05	
minimum elong	-4861 Apr 24 j 23:05	25° \approx 08'47	2°02'09	opposition	-4855 Jan 03 j 23:53	8° \approx 46'01	0°46'54
max. Earth dist.	-4861 Apr 25 j 18:13	25° \approx 15'05	9.93447 AU	min. Earth dist.	-4855 Jan 03 j 16:26	8° \approx 47'28	8.69756 AU
morning rise	-4861 May 13 j 01:57	27° \approx 30'56		direct	-4855 Mar 15 j 08:40	5° \approx 20'12	
	-4861 Jun 02 j 01:00	0° \approx		evening set	-4855 Jun 28 j 20:37	12° \approx 52'42	
retrograde	-4861 Aug 25 j 16:37	5° \approx 49'52					
opposition	-4861 Oct 30 j 23:44	2° \approx 20'29	-2°19'50	conjunction	-4855 Jul 16 j 06:40	14° \approx 57'32	0°53'01
min. Earth dist.	-4861 Oct 30 j 09:35	2° \approx 23'27	7.98254 AU	minimum elong	-4855 Jul 16 j 06:38	14° \approx 57'31	0°53'16
	-4861 Nov 30 j 20:05	30° \approx		max. Earth dist.	-4855 Jul 16 j 13:58	14° \approx 59'43	10.77277 AU
direct	-4860 Jan 05 j 23:22	28° \approx 49'51		morning rise	-4855 Aug 02 j 11:14	17° \approx 00'45	
	-4860 Feb 10 j 23:50	0° \approx		retrograde	-4855 Nov 09 j 07:13	24° \approx 05'55	
evening set	-4860 Apr 21 j 03:55	7° \approx 10'25		opposition	-4854 Jan 16 j 10:03	20° \approx 47'29	1°21'34
				min. Earth dist.	-4854 Jan 16 j 05:52	20° \approx 48'17	8.84332 AU
conjunction	-4860 May 09 j 07:35	9° \approx 31'05	-1°39'46	direct	-4854 Mar 28 j 06:28	17° \approx 23'06	
minimum elong	-4860 May 09 j 07:39	9° \approx 31'07	1°39'44	evening set	-4854 Jul 11 j 07:12	24° \approx 46'22	
max. Earth dist.	-4860 May 10 j 02:37	9° \approx 37'16	10.03618 AU				
morning rise	-4860 May 27 j 09:07	11° \approx 51'01		conjunction	-4854 Jul 28 j 11:50	26° \approx 48'01	1°19'42
retrograde	-4860 Sep 07 j 17:04	19° \approx 57'06		minimum elong	-4854 Jul 28 j 11:47	26° \approx 48'00	1°19'57
opposition	-4860 Nov 13 j 02:14	16° \approx 29'24	-1°47'57	max. Earth dist.	-4854 Jul 28 j 14:59	26° \approx 48'57	10.91102 AU
min. Earth dist.	-4860 Nov 12 j 12:38	16° \approx 32'13	8.09742 AU	morning rise	-4854 Aug 14 j 11:21	28° \approx 48'10	
direct	-4859 Jan 19 j 17:39	12° \approx 59'06			-4854 Aug 24 j 23:08	0° \approx	
evening set	-4859 May 06 j 02:56	21° \approx 11'48		retrograde	-4854 Nov 20 j 22:55	5° \approx 45'39	
				opposition	-4853 Jan 28 j 14:05	2° \approx 28'32	1°51'45
conjunction	-4859 May 24 j 05:09	23° \approx 29'57	-1°11'59	min. Earth dist.	-4853 Jan 28 j 12:56	2° \approx 28'45	8.97388 AU
minimum elong	-4859 May 24 j 05:12	23° \approx 29'58	1°11'53		-4853 Mar 06 j 14:35	30° \approx	
max. Earth dist.	-4859 May 24 j 22:39	23° \approx 35'33	10.16396 AU	direct	-4853 Apr 09 j 21:45	29° \approx 05'32	
morning rise	-4859 Jun 11 j 04:06	25° \approx 47'00			-4853 May 13 j 20:36	0° \approx	
	-4859 Jul 17 j 17:14	0° \approx		evening set	-4853 Jul 23 j 07:53	6° \approx 20'37	
retrograde	-4859 Sep 21 j 06:27	3° \approx 39'18					
opposition	-4859 Nov 26 j 20:24	0° \approx 13'30	-1°10'46	conjunction	-4853 Aug 09 j 07:21	8° \approx 19'26	1°42'28
min. Earth dist.	-4859 Nov 26 j 07:47	0° \approx 16'04	8.23455 AU	minimum elong	-4853 Aug 09 j 07:18	8° \approx 19'25	1°42'43
	-4859 Nov 29 j 14:45	30° \approx		max. Earth dist.	-4853 Aug 09 j 06:27	8° \approx 19'11	11.03127 AU
direct	-4858 Feb 03 j 04:45	26° \approx 43'56		morning rise	-4853 Aug 26 j 02:12	10° \approx 16'55	
	-4858 Apr 07 j 16:35	0° \approx		retrograde	-4853 Dec 02 j 11:10	17° \approx 08'35	
evening set	-4858 May 20 j 14:12	4° \approx 47'09		opposition	-4852 Feb 09 j 12:57	13° \approx 52'29	2°16'42
				min. Earth dist.	-4852 Feb 09 j 14:12	13° \approx 52'15	9.08397 AU
conjunction	-4858 Jun 07 j 13:42	7° \approx 02'14	-0°40'53	direct	-4852 Apr 21 j 04:36	10° \approx 30'47	
minimum elong	-4858 Jun 07 j 13:44	7° \approx 02'15	0°40'45	evening set	-4852 Aug 03 j 00:00	17° \approx 38'50	

Planetary Phenomena of Saturn from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 5

Attention, astronomical year style is used: The year -4852 in astronomical counting style is the year 4853 BCE in historical counting style.

conjunction	-4852 Aug 19 j 18:53	19° \mathfrak{C} 35'20	2°00'45	conjunction	-4846 Oct 23 j 19:47	25° \mathfrak{M} 21'29	2°03'52
minimum elong	-4852 Aug 19 j 18:50	19° \mathfrak{C} 35'19	2°01'00	minimum elong	-4846 Oct 23 j 19:49	25° \mathfrak{M} 21'30	2°03'55
max. Earth dist.	-4852 Aug 19 j 15:12	19° \mathfrak{C} 34'15	11.12879 AU	max. Earth dist.	-4846 Oct 23 j 02:05	25° \mathfrak{M} 16'18	11.11250 AU
morning rise	-4852 Sep 05 j 09:29	21° \mathfrak{C} 30'38		morning rise	-4846 Nov 09 j 05:44	27° \mathfrak{M} 16'20	
retrograde	-4852 Dec 12 j 20:02	28° \mathfrak{C} 18'22			-4846 Dec 04 j 06:12	0° \mathfrak{L}	
opposition	-4851 Feb 20 j 08:21	25° \mathfrak{C} 02'56	2°35'55	retrograde	-4845 Feb 18 j 21:40	4° \mathfrak{L} 18'39	
min. Earth dist.	-4851 Feb 20 j 12:18	25° \mathfrak{C} 02'12	9.16921 AU	opposition	-4845 May 01 j 00:04	1° \mathfrak{L} 00'03	2°21'14
direct	-4851 May 03 j 04:27	21° \mathfrak{C} 42'23		min. Earth dist.	-4845 May 01 j 15:49	0° \mathfrak{L} 57'10	9.06664 AU
evening set	-4851 Aug 14 j 09:03	28° \mathfrak{C} 44'45			-4845 May 14 j 19:36	30° \mathfrak{R} \mathfrak{M}	
	-4851 Aug 25 j 07:43	0° \mathfrak{L}		direct	-4845 Jul 10 j 13:45	27° \mathfrak{M} 41'50	
					-4845 Sep 02 j 14:56	0° \mathfrak{L}	
conjunction	-4851 Aug 30 j 23:57	0° \mathfrak{L} 39'25	2°14'12	evening set	-4845 Oct 18 j 14:51	4° \mathfrak{L} 40'32	
minimum elong	-4851 Aug 30 j 23:55	0° \mathfrak{L} 39'25	2°14'26	max. Earth dist.	-4845 Nov 03 j 08:00	6° \mathfrak{L} 31'30	11.01296 AU
max. Earth dist.	-4851 Aug 30 j 17:18	0° \mathfrak{L} 37'30	11.19969 AU				
morning rise	-4851 Sep 16 j 11:07	2° \mathfrak{L} 33'06		conjunction	-4845 Nov 04 j 01:40	6° \mathfrak{L} 36'45	1°46'28
retrograde	-4851 Dec 24 j 03:50	9° \mathfrak{L} 18'51		minimum elong	-4845 Nov 04 j 01:43	6° \mathfrak{L} 36'45	1°46'27
opposition	-4850 Mar 04 j 01:27	6° \mathfrak{L} 03'46	2°49'08	morning rise	-4845 Nov 20 j 14:19	8° \mathfrak{L} 33'34	
min. Earth dist.	-4850 Mar 04 j 08:58	6° \mathfrak{L} 02'23	9.22625 AU	retrograde	-4844 Mar 02 j 02:42	15° \mathfrak{L} 44'08	
direct	-4850 May 14 j 22:42	2° \mathfrak{L} 44'11		opposition	-4844 May 12 j 05:23	12° \mathfrak{L} 23'58	1°57'18
evening set	-4850 Aug 25 j 12:58	9° \mathfrak{L} 42'18		min. Earth dist.	-4844 May 12 j 20:38	12° \mathfrak{L} 21'08	8.95521 AU
				direct	-4844 Jul 21 j 07:32	9° \mathfrak{L} 05'18	
conjunction	-4850 Sep 11 j 00:36	11° \mathfrak{L} 35'45	2°22'35	evening set	-4844 Oct 29 j 00:39	16° \mathfrak{L} 08'37	
minimum elong	-4850 Sep 11 j 00:35	11° \mathfrak{L} 35'45	2°22'47				
max. Earth dist.	-4850 Sep 10 j 13:54	11° \mathfrak{L} 32'39	11.24141 AU	conjunction	-4844 Nov 14 j 14:12	18° \mathfrak{L} 07'04	1°24'28
morning rise	-4850 Sep 27 j 09:30	13° \mathfrak{L} 28'27		minimum elong	-4844 Nov 14 j 14:15	18° \mathfrak{L} 07'05	1°24'24
	-4850 Oct 11 j 05:33	15° \mathfrak{L}		max. Earth dist.	-4844 Nov 13 j 21:49	18° \mathfrak{L} 02'09	10.89192 AU
retrograde	-4849 Jan 04 j 09:28	20° \mathfrak{L} 14'04		morning rise	-4844 Dec 01 j 06:16	20° \mathfrak{L} 06'23	
opposition	-4849 Mar 15 j 17:19	16° \mathfrak{L} 58'58	2°56'08	retrograde	-4843 Mar 14 j 18:49	27° \mathfrak{L} 26'40	
min. Earth dist.	-4849 Mar 16 j 03:51	16° \mathfrak{L} 57'02	9.25324 AU	opposition	-4843 May 24 j 16:53	24° \mathfrak{L} 04'46	1°27'56
	-4849 Apr 13 j 22:40	15° \mathfrak{R} \mathfrak{L}		min. Earth dist.	-4843 May 25 j 06:35	24° \mathfrak{L} 02'12	8.82439 AU
direct	-4849 May 26 j 12:42	13° \mathfrak{L} 40'08		direct	-4843 Aug 02 j 05:07	20° \mathfrak{L} 45'29	
	-4849 Jul 07 j 03:26	15° \mathfrak{L}		evening set	-4843 Nov 09 j 18:13	27° \mathfrak{L} 54'57	
evening set	-4849 Sep 05 j 13:19	20° \mathfrak{L} 35'32					
conjunction	-4849 Sep 21 j 22:46	22° \mathfrak{L} 28'20	2°25'45	conjunction	-4843 Nov 26 j 11:02	29° \mathfrak{L} 56'05	0°58'23
minimum elong	-4849 Sep 21 j 22:46	22° \mathfrak{L} 28'20	2°25'55	minimum elong	-4843 Nov 26 j 11:05	29° \mathfrak{L} 56'06	0°58'16
max. Earth dist.	-4849 Sep 21 j 09:20	22° \mathfrak{L} 24'27	11.25301 AU	max. Earth dist.	-4843 Nov 25 j 19:30	29° \mathfrak{L} 51'21	10.75376 AU
morning rise	-4849 Oct 08 j 06:23	24° \mathfrak{L} 20'40			-4843 Nov 26 j 23:55	0° \mathfrak{M}	
	-4849 Dec 09 j 02:24	0° \mathfrak{M}		morning rise	-4843 Dec 13 j 07:17	1° \mathfrak{M} 58'22	
retrograde	-4848 Jan 15 j 19:10	1° \mathfrak{M} 07'58		retrograde	-4842 Mar 27 j 18:51	9° \mathfrak{M} 29'40	
	-4848 Feb 23 j 11:50	30° \mathfrak{R} \mathfrak{L}		opposition	-4842 Jun 06 j 11:33	6° \mathfrak{M} 05'59	0°53'49
opposition	-4848 Mar 26 j 09:28	27° \mathfrak{L} 52'29	2°56'49	min. Earth dist.	-4842 Jun 06 j 23:50	6° \mathfrak{M} 03'39	8.67904 AU
min. Earth dist.	-4848 Mar 26 j 21:39	27° \mathfrak{L} 50'16	9.24977 AU	direct	-4842 Aug 14 j 06:35	2° \mathfrak{M} 45'50	
direct	-4848 Jun 06 j 02:53	24° \mathfrak{L} 34'12		evening set	-4842 Nov 21 j 21:39	10° \mathfrak{M} 03'05	
	-4848 Sep 02 j 04:44	0° \mathfrak{M}					
evening set	-4848 Sep 15 j 11:46	1° \mathfrak{M} 28'13		conjunction	-4842 Dec 08 j 18:10	12° \mathfrak{M} 07'16	0°29'00
conjunction	-4848 Oct 01 j 20:10	3° \mathfrak{M} 21'01	2°23'40	minimum elong	-4842 Dec 08 j 18:11	12° \mathfrak{M} 07'16	0°28'50
minimum elong	-4848 Oct 01 j 20:11	3° \mathfrak{M} 21'02	2°23'47	max. Earth dist.	-4842 Dec 08 j 03:34	12° \mathfrak{M} 02'45	10.60376 AU
max. Earth dist.	-4848 Oct 01 j 05:38	3° \mathfrak{M} 16'49	11.23459 AU	morning rise	-4842 Dec 25 j 19:04	14° \mathfrak{M} 12'51	
morning rise	-4848 Oct 18 j 03:22	5° \mathfrak{M} 13'34			-4841 Jan 01 j 08:18	15° \mathfrak{M}	
retrograde	-4847 Jan 26 j 07:17	12° \mathfrak{M} 04'16		retrograde	-4841 Apr 10 j 04:40	21° \mathfrak{M} 56'13	
opposition	-4847 Apr 07 j 03:14	8° \mathfrak{M} 48'02	2°51'12	opposition	-4841 Jun 19 j 14:02	18° \mathfrak{M} 30'43	0°16'01
min. Earth dist.	-4847 Apr 07 j 16:26	8° \mathfrak{M} 45'38	9.21644 AU	min. Earth dist.	-4841 Jun 20 j 00:49	18° \mathfrak{M} 28'38	8.52513 AU
direct	-4847 Jun 17 j 13:20	5° \mathfrak{M} 30'03		direct	-4841 Aug 26 j 18:10	15° \mathfrak{M} 09'31	
evening set	-4847 Sep 26 j 10:22	12° \mathfrak{M} 24'08		desc. node	-4841 Nov 19 j 22:44	20° \mathfrak{M} 51'18	
				evening set	-4841 Dec 04 j 12:30	22° \mathfrak{M} 36'00	
conjunction	-4847 Oct 12 j 18:37	14° \mathfrak{M} 17'30	2°16'20	conjunction	-4841 Dec 21 j 13:10	24° \mathfrak{M} 43'30	-0°02'45
minimum elong	-4847 Oct 12 j 18:39	14° \mathfrak{M} 17'30	2°16'26	minimum elong	-4841 Dec 21 j 13:10	24° \mathfrak{M} 43'30	0°02'57
max. Earth dist.	-4847 Oct 12 j 02:33	14° \mathfrak{M} 12'49	11.18717 AU	behind sun begin	-4841 Dec 21 j 06:05	24° \mathfrak{M} 41'17	
morning rise	-4847 Oct 29 j 02:37	16° \mathfrak{M} 10'54		behind sun end	-4841 Dec 21 j 20:15	24° \mathfrak{M} 45'42	
retrograde	-4846 Feb 07 j 00:19	23° \mathfrak{M} 06'36		max. Earth dist.	-4841 Dec 21 j 01:08	24° \mathfrak{M} 39'44	10.44834 AU
opposition	-4846 Apr 18 j 23:43	19° \mathfrak{M} 49'19	2°39'17	morning rise	-4840 Jan 07 j 18:50	26° \mathfrak{M} 52'36	
min. Earth dist.	-4846 Apr 19 j 14:29	19° \mathfrak{M} 46'37	9.15470 AU		-4840 Feb 03 j 13:30	0° \mathfrak{X}	
direct	-4846 Jun 29 j 00:47	16° \mathfrak{M} 31'21		retrograde	-4840 Apr 23 j 02:03	4° \mathfrak{X} 48'41	
evening set	-4846 Oct 07 j 10:45	23° \mathfrak{M} 26'58		opposition	-4840 Jul 02 j 01:06	1° \mathfrak{X} 21'26	-0°24'00
				min. Earth dist.	-4840 Jul 02 j 09:28	1° \mathfrak{X} 19'47	8.36974 AU
					-4840 Jul 19 j 19:53	30° \mathfrak{R} \mathfrak{M}	

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Attention, astronomical year style is used: The year -4840 in astronomical counting style is the year 4841 BCE in historical counting style.

direct	-4840 Sep 07 j 13:57	27° \mathbb{M} 59'04			-4834 Jul 05 j 12:41	0° \mathbb{H}	
	-4840 Oct 25 j 09:51	0° \mathbb{Z}		retrograde	-4834 Jul 21 j 01:11	0° \mathbb{H} 13'32	
evening set	-4840 Dec 16 j 16:17	5° \mathbb{Z} 35'54			-4834 Aug 05 j 11:54	30° \mathbb{R}	
				opposition	-4834 Sep 25 j 17:47	26° \approx 42'03	-2°59'28
conjunction	-4839 Jan 02 j 21:21	7° \mathbb{Z} 46'50	-0°35'13	min. Earth dist.	-4834 Sep 25 j 06:26	26° \approx 44'26	7.84706 AU
minimum elong	-4839 Jan 02 j 21:20	7° \mathbb{Z} 46'49	0°35'26	direct	-4834 Nov 30 j 14:24	23° \approx 12'42	
max. Earth dist.	-4839 Jan 02 j 13:16	7° \mathbb{Z} 44'15	10.29490 AU		-4833 Mar 02 j 08:53	0° \mathbb{H}	
morning rise	-4839 Jan 20 j 07:39	9° \mathbb{Z} 59'30		evening set	-4833 Mar 15 j 11:12	1° \mathbb{H} 40'29	
retrograde	-4839 May 07 j 10:19	18° \mathbb{Z} 08'18					
opposition	-4839 Jul 15 j 20:38	14° \mathbb{Z} 39'26	-1°04'15	conjunction	-4833 Apr 02 j 12:55	4° \mathbb{H} 03'57	-2°20'52
min. Earth dist.	-4839 Jul 16 j 01:31	14° \mathbb{Z} 38'27	8.22070 AU	minimum elong	-4833 Apr 02 j 12:57	4° \mathbb{H} 03'58	2°20'59
direct	-4839 Sep 20 j 18:53	11° \mathbb{Z} 15'48		max. Earth dist.	-4833 Apr 03 j 05:25	4° \mathbb{H} 09'27	9.85798 AU
evening set	-4839 Dec 30 j 10:20	19° \mathbb{Z} 03'49		morning rise	-4833 Apr 20 j 16:11	6° \mathbb{H} 27'50	
				retrograde	-4833 Aug 05 j 00:28	15° \mathbb{H} 01'00	
conjunction	-4838 Jan 16 j 19:43	21° \mathbb{Z} 18'07	-1°06'49	opposition	-4833 Oct 10 j 11:07	11° \mathbb{H} 30'20	-2°51'00
minimum elong	-4838 Jan 16 j 19:40	21° \mathbb{Z} 18'06	1°07'03	min. Earth dist.	-4833 Oct 09 j 22:00	11° \mathbb{H} 33'05	7.88291 AU
max. Earth dist.	-4838 Jan 16 j 16:00	21° \mathbb{Z} 16'54	10.15160 AU	direct	-4833 Dec 15 j 16:38	8° \mathbb{H} 00'27	
morning rise	-4838 Feb 03 j 10:19	23° \mathbb{Z} 34'10		evening set	-4832 Mar 30 j 04:54	16° \mathbb{H} 27'22	
	-4838 Apr 04 j 14:01	0° \mathbb{Z}					
retrograde	-4838 May 22 j 03:35	1° \mathbb{Z} 54'47		conjunction	-4832 Apr 17 j 08:11	18° \mathbb{H} 50'13	-2°09'44
	-4838 Jul 09 j 14:09	30° \mathbb{R}		minimum elong	-4832 Apr 17 j 08:15	18° \mathbb{H} 50'15	2°09'47
opposition	-4838 Jul 30 j 00:06	28° \mathbb{Z} 24'34	-1°42'19	max. Earth dist.	-4832 Apr 18 j 02:30	18° \mathbb{H} 56'16	9.91317 AU
min. Earth dist.	-4838 Jul 30 j 01:04	28° \mathbb{Z} 24'22	8.08639 AU	morning rise	-4832 May 05 j 11:32	21° \mathbb{H} 13'00	
direct	-4838 Oct 04 j 10:18	24° \mathbb{Z} 59'37		retrograde	-4832 Aug 18 j 15:08	29° \mathbb{H} 36'35	
	-4838 Dec 20 j 10:44	0° \mathbb{Z}		opposition	-4832 Oct 23 j 23:29	26° \mathbb{H} 07'08	-2°31'30
evening set	-4837 Jan 13 j 18:35	2° \mathbb{Z} 58'57		min. Earth dist.	-4832 Oct 23 j 09:19	26° \mathbb{H} 10'05	7.95516 AU
				direct	-4832 Dec 29 j 17:18	22° \mathbb{H} 37'02	
conjunction	-4837 Jan 31 j 07:59	5° \mathbb{Z} 16'21	-1°35'27		-4831 Apr 06 j 20:18	0° \mathbb{Y}	
minimum elong	-4837 Jan 31 j 07:56	5° \mathbb{Z} 16'20	1°35'42	evening set	-4831 Apr 14 j 17:11	0° \mathbb{Y} 59'46	
max. Earth dist.	-4837 Jan 31 j 08:48	5° \mathbb{Z} 16'37	10.02706 AU				
morning rise	-4837 Feb 18 j 02:26	7° \mathbb{Z} 35'26		conjunction	-4831 May 02 j 21:00	3° \mathbb{Y} 21'10	-1°50'29
retrograde	-4837 Jun 06 j 04:52	16° \mathbb{Z} 05'59		minimum elong	-4831 May 02 j 21:04	3° \mathbb{Y} 21'11	1°50'29
opposition	-4837 Aug 13 j 10:49	12° \mathbb{Z} 34'45	-2°15'25	max. Earth dist.	-4831 May 03 j 15:44	3° \mathbb{Y} 27'17	10.00207 AU
min. Earth dist.	-4837 Aug 13 j 07:50	12° \mathbb{Z} 35'22	7.97524 AU	morning rise	-4831 May 20 j 23:20	5° \mathbb{Y} 42'00	
direct	-4837 Oct 18 j 10:59	9° \mathbb{Z} 08'31		retrograde	-4831 Sep 01 j 20:33	13° \mathbb{Y} 53'32	
evening set	-4836 Jan 28 j 15:51	17° \mathbb{Z} 18'25		opposition	-4831 Nov 07 j 05:13	10° \mathbb{Y} 25'37	-2°02'54
				min. Earth dist.	-4831 Nov 06 j 14:59	10° \mathbb{Y} 28'34	8.05736 AU
conjunction	-4836 Feb 15 j 08:58	19° \mathbb{Z} 38'26	-1°58'55	direct	-4830 Jan 13 j 13:26	6° \mathbb{Y} 55'42	
minimum elong	-4836 Feb 15 j 08:55	19° \mathbb{Z} 38'25	1°59'09	evening set	-4830 Apr 29 j 20:43	15° \mathbb{Y} 11'40	
max. Earth dist.	-4836 Feb 15 j 14:14	19° \mathbb{Z} 40'11	9.92960 AU				
morning rise	-4836 Mar 04 j 06:44	21° \mathbb{Z} 59'59		conjunction	-4830 May 17 j 23:46	17° \mathbb{Y} 30'53	-1°24'53
	-4836 May 25 j 05:01	0° \approx		minimum elong	-4830 May 17 j 23:50	17° \mathbb{Y} 30'54	1°24'49
retrograde	-4836 Jun 20 j 11:20	0° \approx 37'29		max. Earth dist.	-4830 May 18 j 17:51	17° \mathbb{Y} 36'42	10.11737 AU
	-4836 Jul 16 j 18:32	30° \mathbb{R}		morning rise	-4830 Jun 04 j 23:56	19° \mathbb{Y} 49'08	
opposition	-4836 Aug 27 j 02:58	27° \mathbb{Z} 05'41	-2°40'45	retrograde	-4830 Sep 15 j 16:22	27° \mathbb{Y} 47'26	
min. Earth dist.	-4836 Aug 26 j 20:38	27° \mathbb{Z} 07'00	7.89485 AU	opposition	-4830 Nov 21 j 03:13	24° \mathbb{Y} 21'17	-1°27'46
direct	-4836 Oct 31 j 20:45	23° \mathbb{Z} 38'13		min. Earth dist.	-4830 Nov 20 j 13:57	24° \mathbb{Y} 24'00	8.18243 AU
	-4835 Jan 27 j 17:08	0° \approx		direct	-4829 Jan 28 j 02:42	20° \mathbb{Y} 51'55	
evening set	-4835 Feb 12 j 00:17	1° \approx 57'00		evening set	-4829 May 14 j 13:32	28° \mathbb{Y} 59'18	
					-4829 May 22 j 15:19	0° \mathbb{B}	
conjunction	-4835 Mar 01 j 20:46	4° \approx 19'00	-2°15'12				
minimum elong	-4835 Mar 01 j 20:44	4° \approx 18'59	2°15'25	conjunction	-4829 Jun 01 j 14:32	1° \mathbb{B} 15'46	-0°55'00
max. Earth dist.	-4835 Mar 02 j 06:17	4° \approx 22'10	9.86625 AU	minimum elong	-4829 Jun 01 j 14:35	1° \mathbb{B} 15'47	0°54'53
morning rise	-4835 Mar 19 j 21:10	6° \approx 42'15		max. Earth dist.	-4829 Jun 02 j 06:53	1° \mathbb{B} 20'57	10.25210 AU
	-4835 Jun 15 j 13:36	15° \approx		morning rise	-4829 Jun 19 j 11:31	3° \mathbb{B} 30'57	
retrograde	-4835 Jul 05 j 19:18	15° \approx 22'43		retrograde	-4829 Sep 29 j 00:38	11° \mathbb{B} 15'44	
	-4835 Jul 25 j 23:49	15° \mathbb{R}		opposition	-4829 Dec 04 j 16:47	7° \mathbb{B} 51'28	-0°48'51
opposition	-4835 Sep 10 j 22:05	11° \approx 50'51	-2°55'56	min. Earth dist.	-4829 Dec 04 j 05:24	7° \mathbb{B} 53'46	8.32370 AU
min. Earth dist.	-4835 Sep 10 j 13:04	11° \approx 52'44	7.85105 AU	direct	-4828 Feb 11 j 09:37	4° \mathbb{B} 22'53	
direct	-4835 Nov 15 j 14:25	8° \approx 22'18		evening set	-4828 May 27 j 18:21	12° \mathbb{B} 20'35	
	-4834 Feb 13 j 17:03	15° \approx					
evening set	-4834 Feb 27 j 16:15	16° \approx 47'19		conjunction	-4828 Jun 14 j 16:02	14° \mathbb{B} 33'51	-0°22'59
				minimum elong	-4828 Jun 14 j 16:03	14° \mathbb{B} 33'52	0°22'49
conjunction	-4834 Mar 17 j 15:39	19° \approx 10'29	-2°22'46	max. Earth dist.	-4828 Jun 15 j 05:34	14° \mathbb{B} 38'04	10.39914 AU
minimum elong	-4834 Mar 17 j 15:39	19° \approx 10'29	2°22'56		-4828 Jun 18 j 03:45	15° \mathbb{B}	
max. Earth dist.	-4834 Mar 18 j 05:02	19° \approx 14'58	9.84177 AU	morning rise	-4828 Jul 02 j 08:59	16° \mathbb{B} 45'39	
morning rise	-4834 Apr 04 j 17:54	21° \approx 34'32		retrograde	-4828 Oct 10 j 20:54	24° \mathbb{B} 17'28	

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Attention, astronomical year style is used: The year -4828 in astronomical counting style is the year 4829 BCE in historical counting style.

opposition	-4828 Dec 16 j 22:01	20° 8 55'03	-0°08'43	retrograde	-4822 Dec 19 j 13:50	4° Ω 46'13	
min. Earth dist.	-4828 Dec 16 j 13:02	20° 8 56'50	8.47380 AU	opposition	-4821 Feb 27 j 08:09	1° Ω 30'27	2°44'16
direct	-4827 Feb 24 j 08:13	17° 8 27'29		min. Earth dist.	-4821 Feb 27 j 14:04	1° Ω 29'22	9.18394 AU
asc. node	-4827 Mar 09 j 17:41	17° 8 36'42			-4821 Mar 20 j 14:36	30° ℞ ☿	
evening set	-4827 Jun 10 j 10:35	25° 8 14'59		direct	-4821 May 10 j 06:16	28° ☿ 09'53	
					-4821 Jun 28 j 09:13	0° Ω	
conjunction	-4827 Jun 28 j 03:54	27° 8 24'51	0°09'20	evening set	-4821 Aug 21 j 01:56	5° Ω 10'23	
minimum elong	-4827 Jun 28 j 03:53	27° 8 24'51	0°09'33				
behind sun begin	-4827 Jun 27 j 21:55	27° 8 23'02		conjunction	-4821 Sep 06 j 15:05	7° Ω 04'31	2°19'38
behind sun end	-4827 Jun 28 j 09:50	27° 8 26'39		minimum elong	-4821 Sep 06 j 15:03	7° Ω 04'30	2°19'51
max. Earth dist.	-4827 Jun 28 j 13:41	27° 8 27'51	10.55088 AU	max. Earth dist.	-4821 Sep 06 j 06:40	7° Ω 02'05	11.20671 AU
morning rise	-4827 Jul 15 j 16:08	29° 8 33'08		morning rise	-4821 Sep 23 j 01:00	8° Ω 57'46	
	-4827 Jul 19 j 09:56	0° Π			-4821 Nov 30 j 22:58	15° Ω	
retrograde	-4827 Oct 23 j 07:58	6° Π 53'09		retrograde	-4821 Dec 30 j 20:53	15° Ω 43'46	
opposition	-4827 Dec 29 j 19:02	3° Π 32'27	0°30'24		-4820 Jan 30 j 08:24	15° ℞ Ω	
min. Earth dist.	-4827 Dec 29 j 12:07	3° Π 33'47	8.62520 AU	opposition	-4820 Mar 10 j 00:24	12° Ω 28'08	2°54'01
direct	-4826 Mar 09 j 21:08	0° Π 06'02		min. Earth dist.	-4820 Mar 10 j 08:08	12° Ω 26'44	9.22646 AU
evening set	-4826 Jun 23 j 14:17	7° Π 43'26		direct	-4820 May 20 j 22:01	9° Ω 08'29	
					-4820 Aug 21 j 08:29	15° Ω	
conjunction	-4826 Jul 11 j 02:40	9° Π 49'53	0°40'10	evening set	-4820 Aug 31 j 03:47	16° Ω 05'26	
minimum elong	-4826 Jul 11 j 02:38	9° Π 49'53	0°40'24				
max. Earth dist.	-4826 Jul 11 j 09:04	9° Π 51'50	10.70000 AU	conjunction	-4820 Sep 16 j 14:18	17° Ω 58'37	2°25'07
morning rise	-4826 Jul 28 j 09:49	11° Π 54'44		minimum elong	-4820 Sep 16 j 14:17	17° Ω 58'37	2°25'17
retrograde	-4826 Nov 04 j 10:26	19° Π 04'30		max. Earth dist.	-4820 Sep 16 j 03:53	17° Ω 55'36	11.23494 AU
opposition	-4825 Jan 11 j 08:28	15° Π 45'18	1°06'46	morning rise	-4820 Oct 02 j 22:18	19° Ω 51'11	
min. Earth dist.	-4825 Jan 11 j 03:31	15° Π 46'15	8.77077 AU	retrograde	-4819 Jan 10 j 05:48	26° Ω 37'53	
direct	-4825 Mar 23 j 00:23	12° Π 20'08		opposition	-4819 Mar 21 j 16:33	23° Ω 22'09	2°57'28
evening set	-4825 Jul 06 j 06:07	19° Π 47'59		min. Earth dist.	-4819 Mar 22 j 02:45	23° Ω 20'17	9.24069 AU
				direct	-4819 Jun 01 j 11:13	20° Ω 03'14	
conjunction	-4825 Jul 23 j 13:22	21° Π 51'12	1°08'22	evening set	-4819 Sep 11 j 02:55	26° Ω 58'00	
minimum elong	-4825 Jul 23 j 13:19	21° Π 51'11	1°08'37				
max. Earth dist.	-4825 Jul 23 j 17:04	21° Π 52'18	10.83976 AU	conjunction	-4819 Sep 27 j 11:40	28° Ω 50'50	2°25'19
morning rise	-4825 Aug 09 j 15:17	23° Π 52'51		minimum elong	-4819 Sep 27 j 11:41	28° Ω 50'50	2°25'27
	-4825 Oct 14 j 20:01	0° ☿		max. Earth dist.	-4819 Sep 26 j 22:33	28° Ω 47'02	11.23479 AU
retrograde	-4825 Nov 16 j 06:23	0° ☿ 54'08			-4819 Oct 07 j 11:17	0° ℞	
	-4825 Dec 19 j 06:38	30° ℞ Π		morning rise	-4819 Oct 13 j 19:01	0° ℞ 43'19	
opposition	-4824 Jan 23 j 15:21	27° Π 36'12	1°39'06	retrograde	-4818 Jan 21 j 14:46	7° ℞ 32'28	
min. Earth dist.	-4824 Jan 23 j 12:54	27° Π 36'40	8.90411 AU	opposition	-4818 Apr 02 j 09:34	4° ℞ 16'17	2°54'34
direct	-4824 Apr 03 j 19:20	24° Π 12'16		min. Earth dist.	-4818 Apr 02 j 21:54	4° ℞ 14'02	9.22619 AU
	-4824 Jul 03 j 23:22	0° ☿		direct	-4818 Jun 12 j 22:06	0° ℞ 57'54	
evening set	-4824 Jul 17 j 11:28	1° ☿ 31'30		evening set	-4818 Sep 22 j 01:17	7° ℞ 51'57	
conjunction	-4824 Aug 03 j 13:29	3° ☿ 31'45	1°32'59	conjunction	-4818 Oct 08 j 09:24	9° ℞ 45'02	2°20'15
minimum elong	-4824 Aug 03 j 13:26	3° ☿ 31'44	1°33'15	minimum elong	-4818 Oct 08 j 09:26	9° ℞ 45'02	2°20'21
max. Earth dist.	-4824 Aug 03 j 14:22	3° ☿ 32'00	10.96431 AU	max. Earth dist.	-4818 Oct 07 j 18:39	9° ℞ 40'45	11.20622 AU
morning rise	-4824 Aug 20 j 10:20	5° ☿ 30'32		morning rise	-4818 Oct 24 j 17:06	11° ℞ 38'02	
retrograde	-4824 Nov 26 j 21:12	12° ☿ 25'12		retrograde	-4817 Feb 02 j 04:59	18° ℞ 31'19	
opposition	-4823 Feb 03 j 16:48	9° ☿ 08'17	2°06'30	opposition	-4817 Apr 14 j 04:25	15° ℞ 14'23	2°45'20
min. Earth dist.	-4823 Feb 03 j 17:48	9° ☿ 08'06	9.01998 AU	min. Earth dist.	-4817 Apr 14 j 17:33	15° ℞ 12'00	9.18330 AU
direct	-4823 Apr 16 j 04:32	5° ☿ 45'34		direct	-4817 Jun 24 j 10:30	11° ℞ 56'21	
evening set	-4823 Jul 29 j 07:35	12° ☿ 57'17		evening set	-4817 Oct 03 j 00:36	18° ℞ 51'08	
conjunction	-4823 Aug 15 j 04:34	14° ☿ 54'58	1°53'21	conjunction	-4817 Oct 19 j 09:15	20° ℞ 45'03	2°09'58
minimum elong	-4823 Aug 15 j 04:31	14° ☿ 54'58	1°53'36	minimum elong	-4817 Oct 19 j 09:18	20° ℞ 45'04	2°10'03
max. Earth dist.	-4823 Aug 15 j 01:31	14° ☿ 54'05	11.06917 AU	max. Earth dist.	-4817 Oct 18 j 18:22	20° ℞ 40'42	11.14995 AU
morning rise	-4823 Aug 31 j 21:03	16° ☿ 51'24		morning rise	-4817 Nov 04 j 18:09	22° ℞ 39'09	
retrograde	-4823 Dec 08 j 05:30	23° ☿ 41'18		retrograde	-4816 Feb 14 j 01:54	29° ℞ 38'11	
opposition	-4822 Feb 15 j 14:04	20° ☿ 25'07	2°28'21	opposition	-4816 Apr 25 j 02:49	26° ℞ 20'16	2°29'53
min. Earth dist.	-4822 Feb 15 j 18:00	20° ☿ 24'24	9.11435 AU	min. Earth dist.	-4816 Apr 25 j 16:03	26° ℞ 17'51	9.11326 AU
direct	-4822 Apr 28 j 07:25	17° ☿ 03'31		direct	-4816 Jul 04 j 22:39	23° ℞ 02'22	
evening set	-4822 Aug 09 j 19:46	24° ☿ 08'58		evening set	-4816 Oct 13 j 02:45	29° ℞ 59'18	
					-4816 Oct 13 j 05:10	0° Ω	
conjunction	-4822 Aug 26 j 12:22	26° ☿ 04'35	2°08'59				
minimum elong	-4822 Aug 26 j 12:19	26° ☿ 04'35	2°09'14	conjunction	-4816 Oct 29 j 12:43	1° Ω 54'38	1°54'40
max. Earth dist.	-4822 Aug 26 j 05:56	26° ☿ 02'43	11.15087 AU	minimum elong	-4816 Oct 29 j 12:46	1° Ω 54'39	1°54'41
morning rise	-4822 Sep 12 j 01:14	27° ☿ 59'09		max. Earth dist.	-4816 Oct 28 j 21:18	1° Ω 50'05	11.06774 AU
	-4822 Sep 30 j 09:23	0° Ω		morning rise	-4816 Nov 14 j 23:53	3° Ω 50'25	

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Attention, astronomical year style is used: The year -4815 in astronomical counting style is the year 4816 BCE in historical counting style.

retrograde	-4815 Feb 25 j 03:58	10° <u>♁</u> 56'48		minimum elong	-4809 Jan 10 j 22:06	15° <u>♂</u> 25'56	0°53'13
opposition	-4815 May 07 j 05:53	7° <u>♁</u> 37'38	2°08'25	max. Earth dist.	-4809 Jan 10 j 14:38	15° <u>♂</u> 23'32	10.23938 AU
min. Earth dist.	-4815 May 07 j 19:26	7° <u>♁</u> 35'08	9.01841 AU	morning rise	-4809 Jan 28 j 10:41	17° <u>♂</u> 40'07	
direct	-4815 Jul 16 j 12:42	4° <u>♁</u> 19'35		retrograde	-4809 May 15 j 21:44	25° <u>♂</u> 54'13	
evening set	-4815 Oct 24 j 09:54	11° <u>♁</u> 20'16		opposition	-4809 Jul 24 j 00:29	22° <u>♂</u> 25'11	-1°25'42
				min. Earth dist.	-4809 Jul 24 j 04:21	22° <u>♂</u> 24'24	8.16794 AU
conjunction	-4815 Nov 09 j 21:58	13° <u>♁</u> 17'30	1°34'36	direct	-4809 Sep 28 j 16:01	19° <u>♂</u> 01'20	
minimum elong	-4815 Nov 09 j 22:01	13° <u>♁</u> 17'31	1°34'34	evening set	-4808 Jan 07 j 15:55	26° <u>♂</u> 54'21	
max. Earth dist.	-4815 Nov 09 j 05:43	13° <u>♁</u> 12'40	10.96235 AU				
morning rise	-4815 Nov 26 j 12:26	15° <u>♁</u> 15'31		conjunction	-4808 Jan 25 j 03:10	29° <u>♂</u> 10'01	-1°23'08
retrograde	-4814 Mar 09 j 14:15	22° <u>♁</u> 30'42		minimum elong	-4808 Jan 25 j 03:07	29° <u>♂</u> 10'00	1°23'23
opposition	-4814 May 19 j 14:23	19° <u>♁</u> 10'06	1°41'20	max. Earth dist.	-4808 Jan 24 j 23:48	29° <u>♂</u> 08'56	10.10200 AU
min. Earth dist.	-4814 May 20 j 04:16	19° <u>♁</u> 07'30	8.90200 AU		-4808 Jan 31 j 12:40	0° <u>♂</u>	
direct	-4814 Jul 28 j 07:45	15° <u>♁</u> 51'37		morning rise	-4808 Feb 11 j 19:51	1° <u>♂</u> 27'26	
evening set	-4814 Nov 04 j 23:40	22° <u>♁</u> 57'34		retrograde	-4808 May 29 j 17:56	9° <u>♂</u> 52'31	
				opposition	-4808 Aug 06 j 07:16	6° <u>♂</u> 22'09	-2°01'17
conjunction	-4814 Nov 21 j 14:46	24° <u>♁</u> 57'13	1°10'14	min. Earth dist.	-4808 Aug 06 j 07:50	6° <u>♂</u> 22'02	8.04150 AU
minimum elong	-4814 Nov 21 j 14:48	24° <u>♁</u> 57'14	1°10'08	direct	-4808 Oct 11 j 12:18	2° <u>♂</u> 56'49	
max. Earth dist.	-4814 Nov 20 j 23:20	24° <u>♁</u> 52'34	10.83722 AU	evening set	-4807 Jan 21 j 06:23	11° <u>♂</u> 00'53	
morning rise	-4814 Dec 08 j 09:06	26° <u>♁</u> 57'55					
	-4813 Jan 04 j 13:04	0° <u>♂</u>		conjunction	-4807 Feb 07 j 21:40	13° <u>♂</u> 19'28	-1°49'08
retrograde	-4813 Mar 22 j 08:44	4° <u>♂</u> 23'18		minimum elong	-4807 Feb 07 j 21:36	13° <u>♂</u> 19'26	1°49'23
opposition	-4813 Jun 01 j 05:26	1° <u>♂</u> 01'03	1°09'13	max. Earth dist.	-4807 Feb 07 j 23:19	13° <u>♂</u> 20'00	9.98706 AU
min. Earth dist.	-4813 Jun 01 j 18:16	0° <u>♂</u> 58'38	8.76796 AU	morning rise	-4807 Feb 25 j 17:53	15° <u>♂</u> 39'39	
	-4813 Jun 14 j 22:24	30° <u>♂</u> 1		retrograde	-4807 Jun 13 j 20:59	24° <u>♂</u> 13'16	
direct	-4813 Aug 09 j 08:08	27° <u>♁</u> 41'55		opposition	-4807 Aug 20 j 20:10	20° <u>♂</u> 41'55	-2°30'24
	-4813 Oct 01 j 01:30	0° <u>♂</u>		min. Earth dist.	-4807 Aug 20 j 17:00	20° <u>♂</u> 42'34	7.94164 AU
evening set	-4813 Nov 16 j 22:01	4° <u>♂</u> 54'39		direct	-4807 Oct 25 j 17:44	17° <u>♂</u> 15'07	
				evening set	-4806 Feb 05 j 09:00	25° <u>♂</u> 29'03	
conjunction	-4813 Dec 03 j 16:45	6° <u>♂</u> 57'08	0°42'12				
minimum elong	-4813 Dec 03 j 16:46	6° <u>♂</u> 57'09	0°42'04	conjunction	-4806 Feb 23 j 03:56	27° <u>♂</u> 49'58	-2°08'52
max. Earth dist.	-4813 Dec 03 j 03:11	6° <u>♂</u> 52'59	10.69657 AU	minimum elong	-4806 Feb 23 j 03:53	27° <u>♂</u> 49'57	2°09'06
morning rise	-4813 Dec 20 j 15:18	9° <u>♂</u> 00'53		max. Earth dist.	-4806 Feb 23 j 10:38	27° <u>♂</u> 52'11	9.90229 AU
	-4812 Feb 18 j 14:04	15° <u>♂</u>			-4806 Mar 11 j 13:21	0° <u>♂</u>	
retrograde	-4812 Apr 03 j 14:16	16° <u>♂</u> 37'41		morning rise	-4806 Mar 13 j 02:59	0° <u>♂</u> 12'16	
	-4812 May 19 j 17:18	15° <u>♂</u> 1		retrograde	-4806 Jun 29 j 03:18	8° <u>♂</u> 50'56	
opposition	-4812 Jun 13 j 03:53	13° <u>♂</u> 13'39	0°32'57	opposition	-4806 Sep 04 j 13:07	5° <u>♂</u> 19'02	-2°50'28
min. Earth dist.	-4812 Jun 13 j 14:43	13° <u>♂</u> 11'35	8.62100 AU	min. Earth dist.	-4806 Sep 04 j 06:11	5° <u>♂</u> 20'29	7.87509 AU
direct	-4812 Aug 20 j 16:12	9° <u>♂</u> 53'38		direct	-4806 Nov 09 j 07:15	1° <u>♂</u> 50'54	
	-4812 Nov 09 j 03:45	15° <u>♂</u>		evening set	-4805 Feb 20 j 20:46	10° <u>♂</u> 12'32	
evening set	-4812 Nov 28 j 07:01	17° <u>♂</u> 14'39					
				conjunction	-4805 Mar 10 j 18:54	12° <u>♂</u> 35'06	-2°20'34
conjunction	-4812 Dec 15 j 05:44	19° <u>♂</u> 20'18	0°11'29	minimum elong	-4805 Mar 10 j 18:52	12° <u>♂</u> 35'05	2°20'45
minimum elong	-4812 Dec 15 j 05:44	19° <u>♂</u> 20'18	0°11'18	max. Earth dist.	-4805 Mar 11 j 06:05	12° <u>♂</u> 38'50	9.85378 AU
behind sun begin	-4812 Dec 15 j 00:30	19° <u>♂</u> 18'41		morning rise	-4805 Mar 28 j 20:07	14° <u>♂</u> 58'41	
behind sun end	-4812 Dec 15 j 10:58	19° <u>♂</u> 21'54			-4805 Mar 29 j 00:09	15° <u>♂</u>	
max. Earth dist.	-4812 Dec 14 j 17:52	19° <u>♂</u> 16'37	10.54548 AU	retrograde	-4805 Jul 14 j 09:46	23° <u>♂</u> 38'16	
morning rise	-4811 Jan 01 j 08:54	21° <u>♂</u> 27'25		opposition	-4805 Sep 19 j 07:58	20° <u>♂</u> 06'19	-2°59'30
retrograde	-4811 Apr 17 j 07:12	29° <u>♂</u> 16'29		min. Earth dist.	-4805 Sep 18 j 21:58	20° <u>♂</u> 08'25	7.84657 AU
desc. node	-4811 Apr 29 j 04:18	29° <u>♂</u> 09'20		direct	-4805 Nov 24 j 03:21	16° <u>♂</u> 37'03	
opposition	-4811 Jun 26 j 10:20	25° <u>♂</u> 50'41	-0°06'10	evening set	-4804 Mar 07 j 13:47	25° <u>♂</u> 03'22	
min. Earth dist.	-4811 Jun 26 j 18:57	25° <u>♂</u> 49'00	8.46681 AU				
direct	-4811 Sep 02 j 05:57	22° <u>♂</u> 29'33		conjunction	-4804 Mar 25 j 14:36	27° <u>♂</u> 26'44	-2°23'04
evening set	-4811 Dec 11 j 04:17	0° <u>♂</u> 00'20		minimum elong	-4804 Mar 25 j 14:37	27° <u>♂</u> 26'44	2°23'12
	-4811 Dec 11 j 03:12	0° <u>♂</u>		max. Earth dist.	-4804 Mar 26 j 05:23	27° <u>♂</u> 31'40	9.84500 AU
				morning rise	-4804 Apr 12 j 17:19	29° <u>♂</u> 50'43	
conjunction	-4811 Dec 28 j 07:09	2° <u>♂</u> 09'20	-0°20'50		-4804 Apr 13 j 21:49	0° <u>♂</u>	
minimum elong	-4811 Dec 28 j 07:07	2° <u>♂</u> 09'20	0°21'03	retrograde	-4804 Jul 28 j 12:13	8° <u>♂</u> 26'48	
max. Earth dist.	-4811 Dec 27 j 20:49	2° <u>♂</u> 06'05	10.39032 AU	opposition	-4804 Oct 03 j 01:58	4° <u>♂</u> 55'18	-2°56'35
morning rise	-4810 Jan 14 j 15:07	4° <u>♂</u> 20'01		min. Earth dist.	-4804 Oct 02 j 13:56	4° <u>♂</u> 57'49	7.85789 AU
retrograde	-4810 May 01 j 10:09	12° <u>♂</u> 21'46		direct	-4804 Dec 08 j 03:12	1° <u>♂</u> 25'12	
opposition	-4810 Jul 10 j 01:16	8° <u>♂</u> 54'17	-0°46'27	evening set	-4803 Mar 23 j 08:02	9° <u>♂</u> 52'44	
min. Earth dist.	-4810 Jul 10 j 07:46	8° <u>♂</u> 53'00	8.31277 AU				
direct	-4810 Sep 15 j 05:12	5° <u>♂</u> 31'52		conjunction	-4803 Apr 10 j 10:47	12° <u>♂</u> 16'01	-2°16'09
evening set	-4810 Dec 24 j 15:05	13° <u>♂</u> 13'32		minimum elong	-4803 Apr 10 j 10:49	12° <u>♂</u> 16'02	2°16'13
				max. Earth dist.	-4803 Apr 11 j 03:51	12° <u>♂</u> 21'40	9.87632 AU
conjunction	-4809 Jan 10 j 22:08	15° <u>♂</u> 25'56	-0°52'59	morning rise	-4803 Apr 28 j 14:06	14° <u>♂</u> 39'26	

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Attention, astronomical year style is used: The year -4803 in astronomical counting style is the year 4804 BCE in historical counting style.

retrograde	-4803 Aug 12 j 07:25	23° X 07'56		evening set	-4797 Jun 17 j 22:30	2° II 13'30	
opposition	-4803 Oct 17 j 16:28	19° X 37'23	-2°42'03				
min. Earth dist.	-4803 Oct 17 j 03:29	19° X 40'06	7.90798 AU	conjunction	-4797 Jul 05 j 13:29	4° II 21'38	0°26'01
direct	-4803 Dec 23 j 03:40	16° X 06'49		minimum elong	-4797 Jul 05 j 13:28	4° II 21'37	0°26'13
evening set	-4802 Apr 07 j 22:57	24° X 32'02		max. Earth dist.	-4797 Jul 05 j 23:35	4° II 24'42	10.62502 AU
				morning rise	-4797 Jul 22 j 23:02	6° II 28'08	
conjunction	-4802 Apr 26 j 02:40	26° X 54'20	-2°00'29	retrograde	-4797 Oct 30 j 07:12	13° II 42'37	
minimum elong	-4802 Apr 26 j 02:44	26° X 54'22	2°00'30	opposition	-4796 Jan 05 j 23:15	10° II 22'33	0°50'13
max. Earth dist.	-4802 Apr 26 j 20:38	27° X 00'15	9.94519 AU	min. Earth dist.	-4796 Jan 05 j 16:56	10° II 23'47	8.69941 AU
morning rise	-4802 May 14 j 05:37	29° X 16'18		direct	-4796 Mar 16 j 07:40	6° II 56'42	
	-4802 May 19 j 22:33	0° Y		evening set	-4796 Jun 29 j 20:09	14° II 29'05	
retrograde	-4802 Aug 26 j 17:48	7° Y 34'04					
opposition	-4802 Nov 01 j 01:32	4° Y 04'51	-2°17'23	conjunction	-4796 Jul 17 j 05:51	16° II 33'49	0°55'37
min. Earth dist.	-4802 Oct 31 j 12:19	4° Y 07'36	7.99312 AU	minimum elong	-4796 Jul 17 j 05:49	16° II 33'48	0°55'51
direct	-4801 Jan 07 j 02:08	0° Y 34'13		max. Earth dist.	-4796 Jul 17 j 11:50	16° II 35'37	10.77328 AU
evening set	-4801 Apr 23 j 06:38	8° Y 53'59		morning rise	-4796 Aug 03 j 10:15	18° II 36'59	
				retrograde	-4796 Nov 10 j 05:21	25° II 42'08	
conjunction	-4801 May 11 j 10:10	11° Y 14'28	-1°37'35	opposition	-4795 Jan 17 j 09:19	22° II 23'41	1°24'36
minimum elong	-4801 May 11 j 10:14	11° Y 14'29	1°37'33	min. Earth dist.	-4795 Jan 17 j 05:49	22° II 24'21	8.84268 AU
max. Earth dist.	-4801 May 12 j 03:49	11° Y 20'11	10.04652 AU	direct	-4795 Mar 29 j 07:14	18° II 59'15	
morning rise	-4801 May 29 j 11:41	13° Y 34'11		evening set	-4795 Jul 12 j 06:36	26° II 22'36	
retrograde	-4801 Sep 09 j 17:35	21° Y 39'12					
opposition	-4801 Nov 15 j 03:16	18° Y 11'37	-1°44'56	conjunction	-4795 Jul 29 j 10:56	28° II 24'12	1°22'01
min. Earth dist.	-4801 Nov 14 j 14:10	18° Y 14'19	8.10730 AU	minimum elong	-4795 Jul 29 j 10:53	28° II 24'11	1°22'16
direct	-4800 Jan 21 j 19:52	14° Y 41'20		max. Earth dist.	-4795 Jul 29 j 13:03	28° II 24'50	10.90906 AU
evening set	-4800 May 07 j 04:41	22° Y 53'17			-4795 Aug 11 j 22:57	0° E	
				morning rise	-4795 Aug 15 j 10:16	0° E 24'18	
conjunction	-4800 May 25 j 06:48	25° Y 11'14	-1°09'25	retrograde	-4795 Nov 21 j 22:23	7° E 22'00	
minimum elong	-4800 May 25 j 06:51	25° Y 11'15	1°09'19	opposition	-4794 Jan 29 j 13:29	4° E 04'51	1°54'24
max. Earth dist.	-4800 May 25 j 23:17	25° Y 16'31	10.17326 AU	min. Earth dist.	-4794 Jan 29 j 12:07	4° E 05'06	8.97078 AU
morning rise	-4800 Jun 12 j 05:42	27° Y 28'05		direct	-4794 Apr 10 j 21:28	0° E 41'50	
	-4800 Jul 03 j 06:10	0° Z		evening set	-4794 Jul 24 j 07:13	7° E 57'07	
retrograde	-4800 Sep 22 j 05:50	5° Z 19'29					
opposition	-4800 Nov 27 j 20:41	1° Z 53'45	-1°07'25	conjunction	-4794 Aug 10 j 06:31	9° E 55'57	1°44'27
min. Earth dist.	-4800 Nov 27 j 08:06	1° Z 56'19	8.24305 AU	minimum elong	-4794 Aug 10 j 06:28	9° E 55'56	1°44'42
	-4800 Dec 22 j 13:28	30° R Y		max. Earth dist.	-4794 Aug 10 j 05:53	9° E 55'46	11.02702 AU
direct	-4799 Feb 04 j 07:12	28° Y 24'12		morning rise	-4794 Aug 27 j 01:04	11° E 53'26	
	-4799 Mar 19 j 15:49	0° Z		retrograde	-4794 Dec 03 j 10:48	18° E 45'30	
evening set	-4799 May 21 j 15:09	6° Z 26'46		opposition	-4793 Feb 10 j 12:46	15° E 29'21	2°18'54
				min. Earth dist.	-4793 Feb 10 j 13:56	15° E 29'08	9.07873 AU
conjunction	-4799 Jun 08 j 14:36	8° Z 41'41	-0°38'07	direct	-4793 Apr 23 j 03:58	12° E 07'39	
minimum elong	-4799 Jun 08 j 14:38	8° Z 41'42	0°37'59	evening set	-4793 Aug 04 j 23:26	19° E 16'02	
max. Earth dist.	-4799 Jun 09 j 05:29	8° Z 46'22	10.31739 AU				
morning rise	-4799 Jun 26 j 09:46	10° Z 55'14		conjunction	-4793 Aug 21 j 18:10	21° E 12'34	2°02'20
	-4799 Aug 01 j 09:04	15° Z		minimum elong	-4793 Aug 21 j 18:07	21° E 12'33	2°02'35
retrograde	-4799 Oct 05 j 07:23	18° Z 33'14		max. Earth dist.	-4793 Aug 21 j 14:43	21° E 11'34	11.12261 AU
opposition	-4799 Dec 11 j 05:42	15° Z 09'25	-0°27'31	morning rise	-4793 Sep 07 j 08:32	23° E 07'55	
min. Earth dist.	-4799 Dec 10 j 18:11	15° Z 11'44	8.39230 AU	retrograde	-4793 Dec 14 j 21:09	29° E 56'11	
	-4799 Dec 13 j 04:46	15° R Z		opposition	-4792 Feb 22 j 08:37	26° E 40'43	2°37'35
direct	-4798 Feb 18 j 09:08	11° Z 40'56		min. Earth dist.	-4792 Feb 22 j 13:11	26° E 39'53	9.16236 AU
	-4798 Apr 24 j 03:28	15° Z		direct	-4792 May 04 j 03:38	23° E 20'10	
evening set	-4798 Jun 04 j 12:59	19° Z 33'19			-4792 Aug 11 j 23:32	0° O	
				evening set	-4792 Aug 15 j 08:51	0° O 22'56	
conjunction	-4798 Jun 22 j 08:40	21° Z 44'53	-0°05'47				
minimum elong	-4798 Jun 22 j 08:39	21° Z 44'53	0°05'36	conjunction	-4792 Aug 31 j 23:29	2° O 17'41	2°15'19
behind sun begin	-4798 Jun 22 j 01:43	21° Z 42'46		minimum elong	-4792 Aug 31 j 23:27	2° O 17'40	2°15'32
behind sun end	-4798 Jun 22 j 15:36	21° Z 47'01		max. Earth dist.	-4792 Aug 31 j 16:09	2° O 15'34	11.19220 AU
max. Earth dist.	-4798 Jun 22 j 21:37	21° Z 48'53	10.47063 AU	morning rise	-4792 Sep 17 j 10:36	4° O 11'27	
morning rise	-4798 Jul 09 j 23:14	23° Z 54'54		retrograde	-4792 Dec 25 j 03:06	10° O 57'48	
asc. node	-4798 Aug 28 j 11:17	29° Z 08'28		opposition	-4791 Mar 05 j 02:12	7° O 42'39	2°50'12
	-4798 Sep 09 j 00:16	0° II		min. Earth dist.	-4791 Mar 05 j 10:06	7° O 41'12	9.21837 AU
retrograde	-4798 Oct 18 j 00:15	1° II 20'28		direct	-4791 May 15 j 22:20	4° O 23'03	
	-4798 Nov 26 j 17:06	30° R Z		evening set	-4791 Aug 26 j 13:02	11° O 21'38	
opposition	-4798 Dec 24 j 06:25	27° Z 58'35	0°12'21				
min. Earth dist.	-4798 Dec 23 j 21:02	28° Z 00'26	8.54696 AU	conjunction	-4791 Sep 12 j 00:30	13° O 15'09	2°23'10
direct	-4797 Mar 04 j 00:56	24° Z 31'21		minimum elong	-4791 Sep 12 j 00:29	13° O 15'09	2°23'22
	-4797 May 29 j 15:24	0° II		max. Earth dist.	-4791 Sep 11 j 13:39	13° O 12'01	11.23310 AU

Attention, astronomical year style is used: The year -4791 in astronomical counting style is the year 4792 BCE in historical counting style.

	-4791 Sep 27 j 05:18	15°♈		morning rise	-4785 Dec 03 j 10:15	21°♑55'39	
morning rise	-4791 Sep 28 j 09:24	15°♈07'58		retrograde	-4784 Mar 16 j 00:21	29°♑16'45	
retrograde	-4790 Jan 05 j 11:27	21°♈54'16		opposition	-4784 May 25 j 22:07	25°♑54'45	1°24'20
opposition	-4790 Mar 16 j 18:39	18°♈39'04	2°56'32	min. Earth dist.	-4784 May 26 j 11:27	25°♑52'15	8.81365 AU
min. Earth dist.	-4790 Mar 17 j 04:36	18°♈37'16	9.24453 AU	direct	-4784 Aug 03 j 07:42	22°♑35'26	
direct	-4790 May 27 j 15:00	15°♈20'15		evening set	-4784 Nov 10 j 22:21	29°♑45'26	
evening set	-4790 Sep 06 j 13:34	22°♈16'05			-4784 Nov 12 j 23:06	0°♐	
conjunction	-4790 Sep 22 j 23:04	24°♈09'01	2°25'47	conjunction	-4784 Nov 27 j 15:21	1°♐46'47	0°55'16
minimum elong	-4790 Sep 22 j 23:05	24°♈09'01	2°25'56	minimum elong	-4784 Nov 27 j 15:23	1°♐46'47	0°55'09
max. Earth dist.	-4790 Sep 22 j 10:31	24°♈05'23	11.24386 AU	max. Earth dist.	-4784 Nov 26 j 23:38	1°♐42'00	10.74350 AU
morning rise	-4790 Oct 09 j 06:37	26°♈01'28		morning rise	-4784 Dec 14 j 12:02	3°♐49'18	
	-4790 Nov 17 j 02:57	0°♐		retrograde	-4783 Mar 29 j 00:28	11°♐21'23	
retrograde	-4789 Jan 16 j 21:14	2°♐49'31		opposition	-4783 Jun 07 j 17:25	7°♐57'34	0°49'48
	-4789 Mar 22 j 11:41	30°♐♌		min. Earth dist.	-4783 Jun 08 j 05:48	7°♐55'13	8.66926 AU
opposition	-4789 Mar 28 j 11:24	29°♐33'56	2°56'33	direct	-4783 Aug 15 j 12:09	4°♐37'21	
min. Earth dist.	-4789 Mar 28 j 22:56	29°♐31'51	9.24017 AU	evening set	-4783 Nov 23 j 02:28	11°♐55'06	
direct	-4789 Jun 08 j 02:52	26°♐15'41					
	-4789 Aug 18 j 13:49	0°♐		conjunction	-4783 Dec 09 j 23:18	13°♐59'29	0°25'37
evening set	-4789 Sep 17 j 12:35	3°♐10'11		minimum elong	-4783 Dec 09 j 23:19	13°♐59'29	0°25'27
				max. Earth dist.	-4783 Dec 09 j 09:18	13°♐55'10	10.59469 AU
conjunction	-4789 Oct 03 j 21:01	5°♐03'08	2°23'07		-4783 Dec 18 j 03:06	15°♐	
minimum elong	-4789 Oct 03 j 21:02	5°♐03'09	2°23'14	morning rise	-4783 Dec 27 j 00:36	16°♐05'17	
max. Earth dist.	-4789 Oct 03 j 06:43	4°♐58'59	11.22458 AU	retrograde	-4782 Apr 11 j 11:28	23°♐49'20	
morning rise	-4789 Oct 20 j 04:16	6°♐55'51		opposition	-4782 Jun 20 j 20:19	20°♐23'43	0°11'45
retrograde	-4788 Jan 28 j 10:18	13°♐47'19		min. Earth dist.	-4782 Jun 21 j 06:55	20°♐21'39	8.51681 AU
opposition	-4788 Apr 08 j 05:46	10°♐31'02	2°50'13	direct	-4782 Aug 27 j 23:41	17°♐02'25	
min. Earth dist.	-4788 Apr 08 j 19:11	10°♐28'36	9.20604 AU	desc. node	-4782 Oct 11 j 01:50	18°♐43'56	
direct	-4788 Jun 18 j 14:43	7°♐13'04		evening set	-4782 Dec 05 j 18:03	24°♐29'20	
evening set	-4788 Sep 27 j 11:45	14°♐07'42					
conjunction	-4788 Oct 13 j 20:00	16°♐01'14	2°15'12	conjunction	-4782 Dec 22 j 19:06	26°♐37'01	-0°06'15
minimum elong	-4788 Oct 13 j 20:02	16°♐01'14	2°15'17	minimum elong	-4782 Dec 22 j 19:06	26°♐37'01	0°06'26
max. Earth dist.	-4788 Oct 13 j 03:23	15°♐56'23	11.17651 AU	behind sun begin	-4782 Dec 22 j 12:24	26°♐34'56	
morning rise	-4788 Oct 30 j 04:15	17°♐54'49		behind sun end	-4782 Dec 23 j 01:48	26°♐39'06	
retrograde	-4787 Feb 08 j 03:09	24°♐51'22		max. Earth dist.	-4782 Dec 22 j 08:23	26°♐33'39	10.44081 AU
opposition	-4787 Apr 20 j 03:02	21°♐34'01	2°37'35	morning rise	-4781 Jan 09 j 01:01	28°♐46'18	
min. Earth dist.	-4787 Apr 20 j 18:04	21°♐31'17	9.14375 AU		-4781 Jan 19 j 04:16	0°♐♌	
direct	-4787 Jun 30 j 02:37	18°♐16'04		retrograde	-4781 Apr 25 j 08:55	6°♐42'56	
evening set	-4787 Oct 08 j 12:39	25°♐12'14		opposition	-4781 Jul 04 j 07:35	3°♐15'32	-0°28'19
				min. Earth dist.	-4781 Jul 04 j 15:08	3°♐14'03	8.36317 AU
conjunction	-4787 Oct 24 j 21:51	27°♐06'57	2°02'10		-4781 Aug 29 j 13:23	30°♐♐	
minimum elong	-4787 Oct 24 j 21:54	27°♐06'57	2°02'12	direct	-4781 Sep 09 j 19:55	29°♐53'05	
max. Earth dist.	-4787 Oct 24 j 04:39	27°♐01'53	11.10144 AU	evening set	-4781 Sep 21 j 00:34	0°♐♌	
morning rise	-4787 Nov 10 j 08:04	29°♐02'00			-4781 Dec 18 j 22:31	7°♐30'18	
	-4787 Nov 18 j 20:25	0°♑		conjunction	-4780 Jan 05 j 03:52	9°♐41'22	-0°38'39
retrograde	-4786 Feb 20 j 01:21	6°♑05'14		minimum elong	-4780 Jan 05 j 03:50	9°♐41'22	0°38'51
opposition	-4786 May 02 j 04:04	2°♑46'32	2°18'50	max. Earth dist.	-4780 Jan 04 j 20:50	9°♐39'08	10.28921 AU
min. Earth dist.	-4786 May 02 j 19:11	2°♑43'45	9.05542 AU	morning rise	-4780 Jan 22 j 14:18	11°♐54'09	
	-4786 Jun 15 j 23:14	30°♐♐		retrograde	-4780 May 08 j 17:07	20°♐03'21	
direct	-4786 Jul 11 j 17:24	29°♐28'19		opposition	-4780 Jul 17 j 03:18	16°♐34'20	-1°08'22
	-4786 Aug 06 j 01:25	0°♑		min. Earth dist.	-4780 Jul 17 j 07:08	16°♐33'34	8.21615 AU
evening set	-4786 Oct 19 j 17:26	6°♑27'34		direct	-4780 Sep 22 j 01:32	13°♐10'37	
				evening set	-4780 Dec 31 j 17:08	20°♐58'54	
conjunction	-4786 Nov 05 j 04:36	8°♑24'01	1°44'13	conjunction	-4779 Jan 18 j 02:38	23°♐13'18	-1°09'58
minimum elong	-4786 Nov 05 j 04:39	8°♑24'01	1°44'12	minimum elong	-4779 Jan 18 j 02:35	23°♐13'17	1°10'11
max. Earth dist.	-4786 Nov 04 j 12:03	8°♑19'06	11.00177 AU	max. Earth dist.	-4779 Jan 17 j 23:16	23°♐12'12	10.14807 AU
morning rise	-4786 Nov 21 j 17:28	10°♑21'03		morning rise	-4779 Feb 04 j 17:25	25°♐29'26	
retrograde	-4785 Mar 04 j 09:08	17°♑32'30			-4779 Mar 15 j 11:11	0°♑	
opposition	-4785 May 14 j 09:55	14°♑12'13	1°54'16	retrograde	-4779 May 23 j 11:19	3°♑50'13	
min. Earth dist.	-4785 May 15 j 00:10	14°♑09'35	8.94404 AU	opposition	-4779 Jul 31 j 06:51	0°♑19'53	-1°45'57
direct	-4785 Jul 23 j 11:11	10°♑53'34		min. Earth dist.	-4779 Jul 31 j 07:14	0°♑19'48	8.08409 AU
evening set	-4785 Oct 31 j 04:04	17°♑57'24			-4779 Aug 04 j 09:03	30°♐♐	
conjunction	-4785 Nov 16 j 17:52	19°♑56'05	1°21'45	direct	-4779 Oct 05 j 15:48	26°♐54'49	
minimum elong	-4785 Nov 16 j 17:54	19°♑56'06	1°21'40		-4779 Dec 03 j 16:05	0°♑	
max. Earth dist.	-4785 Nov 16 j 01:43	19°♑51'14	10.88096 AU	evening set	-4778 Jan 15 j 01:47	4°♑54'20	

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Attention, astronomical year style is used: The year -4778 in astronomical counting style is the year 4779 BCE in historical counting style.

conjunction	-4778 Feb 01 j 15:15	7° 3 11'45	-1°38'06	min. Earth dist.	-4773 Oct 25 j 12:42	27° 3 59'58	7.96363 AU
minimum elong	-4778 Feb 01 j 15:12	7° 3 11'44	1°38'20	direct	-4773 Dec 31 j 21:03	24° 3 26'54	
max. Earth dist.	-4778 Feb 01 j 15:44	7° 3 11'55	10.02584 AU		-4772 Mar 23 j 23:29	0° 0 Y	
morning rise	-4778 Feb 19 j 09:55	9° 3 30'53		evening set	-4772 Apr 15 j 22:17	2° 0 Y 49'01	
retrograde	-4778 Jun 07 j 12:55	18° 3 01'20					
opposition	-4778 Aug 14 j 17:24	14° 3 30'02	-2°18'19	conjunction	-4772 May 04 j 02:08	5° 0 Y 10'16	-1°48'24
min. Earth dist.	-4778 Aug 14 j 14:34	14° 3 30'37	7.97520 AU	minimum elong	-4772 May 04 j 02:13	5° 0 Y 10'17	1°48'23
direct	-4778 Oct 19 j 16:48	11° 3 03'39		max. Earth dist.	-4772 May 04 j 21:37	5° 0 Y 16'38	10.01142 AU
evening set	-4777 Jan 29 j 23:15	19° 3 13'38		morning rise	-4772 May 22 j 04:17	7° 0 Y 30'55	
				retrograde	-4772 Sep 03 j 00:46	15° 0 Y 41'27	
conjunction	-4777 Feb 16 j 16:24	21° 3 33'37	-2°00'54	opposition	-4772 Nov 08 j 08:28	12° 0 Y 13'39	-1°59'56
minimum elong	-4777 Feb 16 j 16:21	21° 3 33'36	2°01'08	min. Earth dist.	-4772 Nov 07 j 18:17	12° 0 Y 16'35	8.06741 AU
max. Earth dist.	-4777 Feb 16 j 21:09	21° 3 35'12	9.93061 AU	direct	-4771 Jan 14 j 16:54	8° 0 Y 43'48	
morning rise	-4777 Mar 06 j 14:19	23° 3 55'09		evening set	-4771 May 01 j 01:05	16° 0 Y 59'01	
	-4777 Apr 29 j 10:40	0° 0 0					
retrograde	-4777 Jun 22 j 18:25	2° 0 0 32'17		conjunction	-4771 May 19 j 04:03	19° 0 Y 18'02	-1°22'18
	-4777 Aug 17 j 06:33	30° 0 0 33'00		minimum elong	-4771 May 19 j 04:07	19° 0 Y 18'03	1°22'14
opposition	-4777 Aug 29 j 09:13	29° 3 00'29	-2°42'42	max. Earth dist.	-4771 May 19 j 22:10	19° 0 Y 23'52	10.12808 AU
min. Earth dist.	-4777 Aug 29 j 03:22	29° 3 01'41	7.89696 AU	morning rise	-4771 Jun 06 j 04:01	21° 0 Y 36'04	
direct	-4777 Nov 03 j 03:38	25° 3 32'53		retrograde	-4771 Sep 16 j 18:52	29° 0 Y 33'17	
	-4776 Jan 13 j 18:58	0° 0 0		opposition	-4771 Nov 22 j 05:44	26° 0 Y 07'17	-1°24'20
evening set	-4776 Feb 14 j 07:30	3° 0 0 51'35		min. Earth dist.	-4771 Nov 21 j 17:14	26° 0 Y 09'51	8.19339 AU
				direct	-4770 Jan 29 j 06:51	22° 0 Y 37'58	
conjunction	-4776 Mar 03 j 04:03	6° 0 0 13'31	-2°16'21		-4770 May 09 j 16:03	0° 0 0	
minimum elong	-4776 Mar 03 j 04:01	6° 0 0 13'30	2°16'34	evening set	-4770 May 15 j 17:01	0° 0 0 44'36	
max. Earth dist.	-4776 Mar 03 j 13:20	6° 0 0 16'37	9.86934 AU				
morning rise	-4776 Mar 21 j 04:33	8° 0 0 36'41		conjunction	-4770 Jun 02 j 17:46	3° 0 0 00'49	-0°52'08
	-4776 May 17 j 03:29	15° 0 0		minimum elong	-4770 Jun 02 j 17:48	3° 0 0 00'50	0°52'01
retrograde	-4776 Jul 07 j 01:02	17° 0 0 16'36		max. Earth dist.	-4770 Jun 03 j 09:11	3° 0 0 05'42	10.26300 AU
	-4776 Aug 27 j 19:47	15° 0 0		morning rise	-4770 Jun 20 j 14:34	5° 0 0 15'47	
opposition	-4776 Sep 12 j 03:52	13° 0 0 44'44	-2°56'48	retrograde	-4770 Sep 30 j 01:15	12° 0 0 59'37	
min. Earth dist.	-4776 Sep 11 j 19:07	13° 0 0 46'34	7.85513 AU	opposition	-4770 Dec 05 j 18:44	9° 0 0 35'31	-0°45'11
direct	-4776 Nov 16 j 22:04	10° 0 0 16'07		min. Earth dist.	-4770 Dec 05 j 08:11	9° 0 0 37'38	8.33426 AU
	-4775 Jan 30 j 02:49	15° 0 0		direct	-4769 Feb 12 j 13:02	6° 0 0 07'01	
evening set	-4775 Feb 28 j 23:05	18° 0 0 40'52		evening set	-4769 May 29 j 20:49	14° 0 0 04'00	
					-4769 Jun 06 j 10:44	15° 0 0	
conjunction	-4775 Mar 18 j 22:38	21° 0 0 03'58	-2°23'01	conjunction	-4769 Jun 16 j 18:11	16° 0 0 17'04	-0°19'59
minimum elong	-4775 Mar 18 j 22:38	21° 0 0 03'58	2°23'11	minimum elong	-4769 Jun 16 j 18:12	16° 0 0 17'04	0°19'49
max. Earth dist.	-4775 Mar 19 j 12:07	21° 0 0 08'28	9.84671 AU	max. Earth dist.	-4769 Jun 17 j 06:22	16° 0 0 20'52	10.40905 AU
morning rise	-4775 Apr 06 j 00:56	23° 0 0 27'54		morning rise	-4769 Jul 04 j 10:59	18° 0 0 28'39	
	-4775 Jun 03 j 16:52	0° 0 0 3		retrograde	-4769 Oct 12 j 21:48	25° 0 0 59'45	
retrograde	-4775 Jul 22 j 05:12	2° 0 0 06'10		opposition	-4769 Dec 18 j 23:20	22° 0 0 37'29	-0°05'01
	-4775 Sep 09 j 12:31	30° 0 0		min. Earth dist.	-4769 Dec 18 j 14:40	22° 0 0 39'12	8.48293 AU
opposition	-4775 Sep 26 j 22:55	28° 0 0 34'44	-2°59'12	asc. node	-4768 Feb 04 j 11:39	19° 0 0 34'26	
min. Earth dist.	-4775 Sep 26 j 11:28	28° 0 0 37'09	7.85277 AU	direct	-4768 Feb 26 j 10:22	19° 0 0 10'00	
direct	-4775 Dec 01 j 21:07	25° 0 0 05'21		evening set	-4768 Jun 11 j 12:19	26° 0 0 56'58	
	-4774 Feb 15 j 23:53	0° 0 0 3					
evening set	-4774 Mar 16 j 17:40	3° 0 0 32'46		conjunction	-4768 Jun 29 j 05:23	29° 0 0 06'40	0°12'19
				minimum elong	-4768 Jun 29 j 05:22	29° 0 0 06'39	0°12'31
conjunction	-4774 Apr 03 j 19:34	5° 0 0 56'09	-2°20'15	behind sun begin	-4768 Jun 29 j 00:46	29° 0 0 05'15	
minimum elong	-4774 Apr 03 j 19:36	5° 0 0 56'09	2°20'21	behind sun end	-4768 Jun 29 j 09:59	29° 0 0 08'03	
max. Earth dist.	-4774 Apr 04 j 12:25	6° 0 0 01'45	9.86441 AU	max. Earth dist.	-4768 Jun 29 j 14:17	29° 0 0 09'23	10.55898 AU
morning rise	-4774 Apr 21 j 22:46	8° 0 0 19'52			-4768 Jul 06 j 11:12	0° 0 0 1	
retrograde	-4774 Aug 06 j 03:52	16° 0 0 52'12		morning rise	-4768 Jul 16 j 17:25	1° 0 0 14'46	
opposition	-4774 Oct 11 j 15:33	13° 0 0 21'38	-2°49'40	retrograde	-4768 Oct 24 j 08:13	8° 0 0 13'41	
min. Earth dist.	-4774 Oct 11 j 02:00	13° 0 0 24'28	7.88998 AU	opposition	-4768 Dec 30 j 19:54	5° 0 0 13'42	0°33'59
direct	-4774 Dec 16 j 21:32	9° 0 0 51'46		min. Earth dist.	-4768 Dec 30 j 12:54	5° 0 0 15'04	8.63218 AU
evening set	-4773 Apr 01 j 10:46	18° 0 0 18'13		direct	-4767 Mar 10 j 22:55	1° 0 0 14'23	
				evening set	-4767 Jun 24 j 15:32	9° 0 0 12'42	
conjunction	-4773 Apr 19 j 14:11	20° 0 0 40'57	-2°08'18	conjunction	-4767 Jul 12 j 03:43	11° 0 0 13'04	0°43'00
minimum elong	-4773 Apr 19 j 14:14	20° 0 0 40'59	2°08'21	minimum elong	-4767 Jul 12 j 03:41	11° 0 0 13'04	0°43'14
max. Earth dist.	-4773 Apr 20 j 09:10	20° 0 0 47'13	9.92097 AU	max. Earth dist.	-4767 Jul 12 j 10:06	11° 0 0 13'24	10.70572 AU
morning rise	-4773 May 07 j 17:22	23° 0 0 03'33		morning rise	-4767 Jul 29 j 10:30	13° 0 0 13'52	
	-4773 Jul 12 j 05:13	0° 0 0 Y		retrograde	-4767 Nov 05 j 11:14	20° 0 0 14'59	
retrograde	-4773 Aug 20 j 19:19	1° 0 0 26'16		retrograde	-4766 Jan 12 j 09:18	17° 0 0 12'52	1°10'06
	-4773 Sep 29 j 19:25	30° 0 0		opposition			
opposition	-4773 Oct 26 j 03:21	27° 0 0 56'55	-2°29'14				

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Attention, astronomical year style is used: The year -4766 in astronomical counting style is the year 4767 BCE in historical counting style.

min. Earth dist.	-4766 Jan 12 j 04:42	17° Π 26'45	8.77518 AU	retrograde	-4760 Jan 12 j 07:23	28° Ω 21'41	
direct	-4766 Mar 24 j 02:10	14° Π 00'48		opposition	-4760 Mar 22 j 19:25	25° Ω 05'47	2°57'31
evening set	-4766 Jul 07 j 07:02	21° Π 28'28		min. Earth dist.	-4760 Mar 23 j 06:19	25° Ω 03'48	9.22918 AU
				direct	-4760 Jun 02 j 12:42	21° Ω 46'47	
conjunction	-4766 Jul 24 j 14:00	23° Π 31'34	1°10'58	evening set	-4760 Sep 12 j 04:46	28° Ω 42'04	
minimum elong	-4766 Jul 24 j 13:57	23° Π 31'33	1°11'12		-4760 Sep 23 j 12:28	0° Π	
max. Earth dist.	-4766 Jul 24 j 17:35	23° Π 32'38	10.84277 AU				
morning rise	-4766 Aug 10 j 15:32	25° Π 33'06		conjunction	-4760 Sep 28 j 13:29	0° Π 35'03	2°25'02
	-4766 Sep 22 j 06:58	0° Ξ		minimum elong	-4760 Sep 28 j 13:30	0° Π 35'03	2°25'10
retrograde	-4766 Nov 17 j 07:49	2° Ξ 34'21		max. Earth dist.	-4760 Sep 28 j 00:02	0° Π 31'09	11.22225 AU
	-4765 Jan 15 j 01:09	30° κ Π		morning rise	-4760 Oct 14 j 20:57	2° Π 27'42	
opposition	-4765 Jan 24 j 16:18	29° Π 16'30	1°42'04	retrograde	-4759 Jan 22 j 18:19	9° Π 17'43	
min. Earth dist.	-4765 Jan 24 j 14:55	29° Π 16'46	8.90582 AU	opposition	-4759 Apr 03 j 13:03	6° Π 01'20	2°53'54
direct	-4765 Apr 05 j 18:49	25° Π 52'38		min. Earth dist.	-4759 Apr 04 j 01:07	5° Π 59'08	9.21269 AU
	-4765 Jun 20 j 00:55	0° Ξ		direct	-4759 Jun 14 j 02:03	2° Π 42'50	
evening set	-4765 Jul 19 j 12:17	3° Ξ 11'51		evening set	-4759 Sep 23 j 03:34	9° Π 37'29	
conjunction	-4765 Aug 05 j 13:56	5° Ξ 12'02	1°35'14	conjunction	-4759 Oct 09 j 11:52	11° Π 30'46	2°19'22
minimum elong	-4765 Aug 05 j 13:53	5° Ξ 12'01	1°35'29	minimum elong	-4759 Oct 09 j 11:54	11° Π 30'46	2°19'28
max. Earth dist.	-4765 Aug 05 j 13:40	5° Ξ 11'57	10.96456 AU	max. Earth dist.	-4759 Oct 08 j 21:54	11° Π 26'42	11.19188 AU
morning rise	-4765 Aug 22 j 10:35	7° Ξ 10'47		morning rise	-4759 Oct 25 j 19:37	13° Π 23'58	
retrograde	-4765 Nov 28 j 20:28	14° Ξ 05'34		retrograde	-4758 Feb 03 j 10:20	20° Π 18'12	
opposition	-4764 Feb 05 j 17:49	10° Ξ 48'42	2°09'01	opposition	-4758 Apr 15 j 08:43	17° Π 01'03	2°43'56
min. Earth dist.	-4764 Feb 05 j 19:40	10° Ξ 48'21	9.01894 AU	min. Earth dist.	-4758 Apr 15 j 21:09	16° Π 58'47	9.16818 AU
direct	-4764 Apr 17 j 05:35	7° Ξ 25'59		direct	-4758 Jun 25 j 13:37	13° Π 42'55	
evening set	-4764 Jul 30 j 08:23	14° Ξ 37'52		evening set	-4758 Oct 04 j 03:29	20° Π 38'20	
conjunction	-4764 Aug 16 j 05:03	16° Ξ 35'31	1°55'11	conjunction	-4758 Oct 20 j 12:19	22° Π 32'30	2°08'29
minimum elong	-4764 Aug 16 j 05:00	16° Ξ 35'30	1°55'26	minimum elong	-4758 Oct 20 j 12:22	22° Π 32'31	2°08'33
max. Earth dist.	-4764 Aug 16 j 00:56	16° Ξ 34'19	11.06663 AU	max. Earth dist.	-4758 Oct 19 j 21:34	22° Π 28'11	11.13423 AU
morning rise	-4764 Sep 01 j 21:24	18° Ξ 31'56		morning rise	-4758 Nov 05 j 21:26	24° Π 26'52	
retrograde	-4764 Dec 09 j 07:11	25° Ξ 22'11			-4757 Jan 03 j 08:42	0° Ω	
opposition	-4763 Feb 16 j 15:19	22° Ξ 05'58	2°30'20	retrograde	-4757 Feb 15 j 06:54	1° Ω 26'56	
min. Earth dist.	-4763 Feb 16 j 19:14	22° Ξ 05'14	9.11044 AU		-4757 Mar 31 j 11:06	30° κ Π	
direct	-4763 Apr 29 j 10:11	18° Ξ 44'22		opposition	-4757 Apr 27 j 07:55	28° Π 08'47	2°27'45
evening set	-4763 Aug 10 j 20:38	25° Ξ 50'03		min. Earth dist.	-4757 Apr 27 j 21:12	28° Π 06'21	9.09697 AU
				direct	-4757 Jul 07 j 01:36	24° Π 50'45	
conjunction	-4763 Aug 27 j 13:05	27° Ξ 45'43	2°10'22		-4757 Sep 29 j 03:12	0° Ω	
minimum elong	-4763 Aug 27 j 13:03	27° Ξ 45'42	2°10'36	evening set	-4757 Oct 15 j 06:27	1° Ω 48'27	
max. Earth dist.	-4763 Aug 27 j 06:48	27° Ξ 43'53	11.14552 AU				
morning rise	-4763 Sep 13 j 01:43	29° Ξ 40'18		conjunction	-4757 Oct 31 j 16:34	3° Ω 44'03	1°52'36
	-4763 Sep 15 j 23:14	0° Ω		minimum elong	-4757 Oct 31 j 16:36	3° Ω 44'03	1°52'36
retrograde	-4763 Dec 20 j 15:27	6° Ω 27'51		max. Earth dist.	-4757 Oct 31 j 00:38	3° Ω 39'20	11.05112 AU
opposition	-4762 Feb 28 j 09:54	3° Ω 12'00	2°45'39	morning rise	-4757 Nov 17 j 04:09	5° Ω 40'07	
min. Earth dist.	-4762 Feb 28 j 15:42	3° Ω 10'56	9.17723 AU	retrograde	-4756 Feb 27 j 10:13	12° Ω 47'36	
	-4762 Apr 27 j 18:15	30° κ Ξ		opposition	-4756 May 08 j 11:45	9° Ω 28'15	2°05'35
direct	-4762 May 11 j 06:57	29° Ξ 51'25		min. Earth dist.	-4756 May 09 j 01:39	9° Ω 25'40	9.00147 AU
	-4762 May 24 j 18:05	0° Ω		direct	-4756 Jul 17 j 17:17	6° Ω 10'03	
evening set	-4762 Aug 22 j 03:02	6° Ω 52'14		evening set	-4756 Oct 25 j 14:20	13° Ω 11'33	
				max. Earth dist.	-4756 Nov 10 j 10:54	15° Ω 04'22	10.94538 AU
conjunction	-4762 Sep 07 j 16:04	8° Ω 46'26	2°20'30				
minimum elong	-4762 Sep 07 j 16:02	8° Ω 46'25	2°20'42	conjunction	-4756 Nov 11 j 02:42	15° Ω 09'05	1°31'59
max. Earth dist.	-4762 Sep 07 j 07:48	8° Ω 44'02	11.19867 AU	minimum elong	-4756 Nov 11 j 02:45	15° Ω 09'06	1°31'56
morning rise	-4762 Sep 24 j 01:49	10° Ω 39'46		morning rise	-4756 Nov 27 j 17:33	17° Ω 07'25	
	-4762 Nov 06 j 03:02	15° Ω		retrograde	-4755 Mar 10 j 20:28	24° Ω 23'48	
retrograde	-4762 Dec 31 j 23:41	17° Ω 26'22		opposition	-4755 May 20 j 21:10	21° Ω 02'58	1°37'51
	-4761 Feb 28 j 18:00	15° κ Ω		min. Earth dist.	-4755 May 21 j 10:34	21° Ω 00'28	8.88505 AU
opposition	-4761 Mar 12 j 02:44	14° Ω 10'39	2°54'45	direct	-4755 Jul 29 j 13:16	17° Ω 44'24	
min. Earth dist.	-4761 Mar 12 j 11:09	14° Ω 09'06	9.21722 AU	evening set	-4755 Nov 06 j 04:58	24° Ω 51'12	
direct	-4761 May 22 j 23:43	10° Ω 50'55					
	-4761 Aug 06 j 23:44	15° Ω		conjunction	-4755 Nov 22 j 20:30	26° Ω 51'10	1°07'09
evening set	-4761 Sep 02 j 05:14	17° Ω 48'17		minimum elong	-4755 Nov 22 j 20:33	26° Ω 51'11	1°07'02
				max. Earth dist.	-4755 Nov 22 j 06:22	26° Ω 46'54	10.82055 AU
conjunction	-4761 Sep 18 j 15:36	19° Ω 41'35	2°25'25	morning rise	-4755 Dec 09 j 15:09	28° Ω 52'11	
minimum elong	-4761 Sep 18 j 15:35	19° Ω 41'35	2°25'34		-4755 Dec 19 j 07:42	0° Π	
max. Earth dist.	-4761 Sep 18 j 04:16	19° Ω 38'18	11.22450 AU	retrograde	-4754 Mar 23 j 17:21	6° Π 18'49	
morning rise	-4761 Oct 04 j 23:40	21° Ω 34'17		opposition	-4754 Jun 02 j 13:02	2° Π 56'21	1°05'11

Planetary Phenomena of Saturn from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 13

Attention, astronomical year style is used: The year -4754 in astronomical counting style is the year 4755 BCE in historical counting style.

min. Earth dist.	-4754 Jun 03 j 00:40	2° \mathbb{M} 54'09	8.75173 AU	minimum elong	-4748 Feb 10 j 08:44	15° \mathbb{Z} 24'20	1°51'52
	-4754 Jul 20 j 08:18	30° \mathbb{R} \mathbb{A}		max. Earth dist.	-4748 Feb 10 j 11:37	15° \mathbb{Z} 25'17	9.98601 AU
direct	-4754 Aug 10 j 15:20	29° \mathbb{A} 37'09		morning rise	-4748 Feb 28 j 05:03	17° \mathbb{Z} 44'35	
	-4754 Aug 31 j 13:41	0° \mathbb{M}		retrograde	-4748 Jun 15 j 08:23	26° \mathbb{Z} 18'14	
evening set	-4754 Nov 18 j 04:30	6° \mathbb{M} 50'45		opposition	-4748 Aug 22 j 06:15	22° \mathbb{Z} 46'54	-2°33'02
				min. Earth dist.	-4748 Aug 22 j 02:05	22° \mathbb{Z} 47'46	7.94230 AU
conjunction	-4754 Dec 04 j 23:36	8° \mathbb{M} 53'33	0°38'45	direct	-4748 Oct 27 j 03:43	19° \mathbb{Z} 20'07	
minimum elong	-4754 Dec 04 j 23:37	8° \mathbb{M} 53'34	0°38'36	evening set	-4747 Feb 06 j 20:18	27° \mathbb{Z} 34'13	
max. Earth dist.	-4754 Dec 04 j 10:48	8° \mathbb{M} 49'38	10.68103 AU				
morning rise	-4754 Dec 21 j 22:31	10° \mathbb{M} 57'39		conjunction	-4747 Feb 24 j 15:23	29° \mathbb{Z} 55'08	-2°10'33
	-4753 Jan 27 j 13:13	15° \mathbb{M}		minimum elong	-4747 Feb 24 j 15:21	29° \mathbb{Z} 55'08	2°10'46
retrograde	-4753 Apr 06 j 00:56	18° \mathbb{M} 35'34		max. Earth dist.	-4747 Feb 24 j 22:42	29° \mathbb{Z} 57'34	9.90449 AU
opposition	-4753 Jun 15 j 12:12	15° \mathbb{M} 11'24	0°28'32		-4747 Feb 25 j 06:01	0° \approx	
min. Earth dist.	-4753 Jun 15 j 22:03	15° \mathbb{M} 09'31	8.60646 AU	morning rise	-4747 Mar 14 j 14:30	2° \approx 17'24	
	-4753 Jun 17 j 23:48	15° \mathbb{R} \mathbb{M}		retrograde	-4747 Jun 30 j 14:10	10° \approx 55'45	
direct	-4753 Aug 22 j 21:44	11° \mathbb{M} 51'19		opposition	-4747 Sep 05 j 23:01	7° \approx 23'56	-2°51'57
	-4753 Oct 23 j 11:39	15° \mathbb{M}		min. Earth dist.	-4747 Sep 05 j 15:34	7° \approx 25'29	7.87894 AU
evening set	-4753 Nov 30 j 14:39	19° \mathbb{M} 13'13		direct	-4747 Nov 10 j 17:27	3° \approx 55'48	
				evening set	-4746 Feb 22 j 08:12	12° \approx 17'21	
conjunction	-4753 Dec 17 j 13:35	21° \mathbb{M} 19'07	0°07'48	conjunction	-4746 Mar 12 j 06:24	14° \approx 39'51	-2°21'18
minimum elong	-4753 Dec 17 j 13:36	21° \mathbb{M} 19'07	0°07'37	minimum elong	-4746 Mar 12 j 06:23	14° \approx 39'51	2°21'28
behind sun begin	-4753 Dec 17 j 07:09	21° \mathbb{M} 17'08		max. Earth dist.	-4746 Mar 12 j 17:32	14° \approx 43'34	9.85913 AU
behind sun end	-4753 Dec 17 j 20:02	21° \mathbb{M} 21'06			-4746 Mar 14 j 18:52	15° \approx	
max. Earth dist.	-4753 Dec 17 j 01:53	21° \mathbb{M} 15'29	10.53220 AU	morning rise	-4746 Mar 30 j 07:42	17° \approx 03'20	
morning rise	-4752 Jan 03 j 17:13	23° \mathbb{M} 26'33		retrograde	-4746 Jul 15 j 19:34	25° \approx 42'13	
	-4752 Mar 10 j 06:26	0° \mathbb{A}		opposition	-4746 Sep 20 j 17:29	22° \approx 10'23	-2°59'45
desc. node	-4752 Mar 18 j 00:40	0° \mathbb{A} 26'39		min. Earth dist.	-4746 Sep 20 j 07:38	22° \approx 12'27	7.85338 AU
retrograde	-4752 Apr 18 j 16:51	1° \mathbb{A} 16'36		direct	-4746 Nov 25 j 13:08	18° \approx 41'08	
	-4752 May 28 j 17:39	30° \mathbb{R} \mathbb{M}		evening set	-4745 Mar 10 j 00:53	27° \approx 07'04	
opposition	-4752 Jun 27 j 19:27	27° \mathbb{M} 50'41	-0°10'47				
min. Earth dist.	-4752 Jun 28 j 03:40	27° \mathbb{M} 49'05	8.45502 AU	conjunction	-4745 Mar 28 j 01:40	29° \approx 30'19	-2°22'48
direct	-4752 Sep 03 j 13:23	24° \mathbb{M} 29'29		minimum elong	-4745 Mar 28 j 01:42	29° \approx 30'19	2°22'56
	-4752 Nov 25 j 17:38	0° \mathbb{A}		max. Earth dist.	-4745 Mar 28 j 15:57	29° \approx 35'04	9.85322 AU
evening set	-4752 Dec 12 j 12:49	2° \mathbb{A} 01'02			-4745 Mar 31 j 18:51	0° \mathbb{H}	
conjunction	-4752 Dec 29 j 15:55	4° \mathbb{A} 10'16	-0°24'34	morning rise	-4745 Apr 15 j 04:27	1° \mathbb{H} 54'08	
minimum elong	-4752 Dec 29 j 15:54	4° \mathbb{A} 10'15	0°24'46	retrograde	-4745 Jul 30 j 21:03	10° \mathbb{H} 29'12	
max. Earth dist.	-4752 Dec 29 j 06:05	4° \mathbb{A} 07'09	10.38008 AU	opposition	-4745 Oct 05 j 10:54	6° \mathbb{H} 57'51	-2°55'36
morning rise	-4751 Jan 16 j 00:19	6° \mathbb{A} 21'11		min. Earth dist.	-4745 Oct 04 j 23:22	7° \mathbb{H} 00'17	7.86735 AU
retrograde	-4751 May 02 j 19:17	14° \mathbb{A} 23'44		direct	-4745 Dec 10 j 12:27	3° \mathbb{H} 27'47	
opposition	-4751 Jul 11 j 10:57	10° \mathbb{A} 56'10	-0°51'01	evening set	-4744 Mar 24 j 18:25	11° \mathbb{H} 54'40	
min. Earth dist.	-4751 Jul 11 j 17:20	10° \mathbb{A} 54'54	8.30413 AU				
direct	-4751 Sep 16 j 14:54	7° \mathbb{A} 33'40		conjunction	-4744 Apr 11 j 21:08	14° \mathbb{H} 17'46	-2°14'56
evening set	-4751 Dec 26 j 00:35	15° \mathbb{A} 16'00		minimum elong	-4744 Apr 11 j 21:11	14° \mathbb{H} 17'47	2°15'00
				max. Earth dist.	-4744 Apr 12 j 13:28	14° \mathbb{H} 23'11	9.88697 AU
conjunction	-4750 Jan 12 j 07:59	17° \mathbb{A} 28'36	-0°56'32	morning rise	-4744 Apr 30 j 00:32	16° \mathbb{H} 40'59	
minimum elong	-4750 Jan 12 j 07:56	17° \mathbb{A} 28'35	0°56'45	retrograde	-4744 Aug 13 j 15:42	25° \mathbb{H} 08'14	
max. Earth dist.	-4750 Jan 12 j 01:32	17° \mathbb{A} 26'32	10.23222 AU	opposition	-4744 Oct 19 j 00:35	21° \mathbb{H} 37'51	-2°39'58
morning rise	-4750 Jan 29 j 20:48	19° \mathbb{A} 42'57		min. Earth dist.	-4744 Oct 18 j 12:05	21° \mathbb{H} 40'28	7.91954 AU
retrograde	-4750 May 17 j 07:55	27° \mathbb{A} 57'38		direct	-4744 Dec 24 j 13:07	18° \mathbb{H} 07'18	
opposition	-4750 Jul 25 j 10:23	24° \mathbb{A} 28'33	-1°29'54	evening set	-4743 Apr 09 j 08:27	26° \mathbb{H} 31'42	
min. Earth dist.	-4750 Jul 25 j 13:49	24° \mathbb{A} 27'52	8.16239 AU				
direct	-4750 Sep 30 j 01:20	21° \mathbb{A} 04'39		conjunction	-4743 Apr 27 j 12:09	28° \mathbb{H} 53'46	-1°58'28
evening set	-4749 Jan 09 j 02:15	28° \mathbb{A} 58'14		minimum elong	-4743 Apr 27 j 12:13	28° \mathbb{H} 53'47	1°58'29
	-4749 Jan 17 j 02:17	0° \mathbb{Z}		max. Earth dist.	-4743 Apr 28 j 05:22	28° \mathbb{H} 59'25	9.95758 AU
					-4743 May 05 j 22:18	0° \mathbb{Y}	
conjunction	-4749 Jan 26 j 13:50	1° \mathbb{Z} 14'02	-1°26'16	morning rise	-4743 May 15 j 15:07	1° \mathbb{Y} 15'29	
minimum elong	-4749 Jan 26 j 13:46	1° \mathbb{Z} 14'01	1°26'30	retrograde	-4743 Aug 28 j 00:30	9° \mathbb{Y} 31'53	
max. Earth dist.	-4749 Jan 26 j 11:49	1° \mathbb{Z} 13'22	10.09785 AU	opposition	-4743 Nov 02 j 08:41	6° \mathbb{Y} 02'49	-2°14'25
morning rise	-4749 Feb 13 j 06:37	3° \mathbb{Z} 31'34		min. Earth dist.	-4743 Nov 01 j 19:38	6° \mathbb{Y} 05'32	8.00597 AU
retrograde	-4749 Jun 01 j 05:22	11° \mathbb{Z} 56'59		direct	-4742 Jan 08 j 11:36	2° \mathbb{Y} 32'15	
opposition	-4749 Aug 08 j 17:20	8° \mathbb{Z} 26'36	-2°04'50	evening set	-4742 Apr 24 j 15:08	10° \mathbb{Y} 51'04	
min. Earth dist.	-4749 Aug 08 j 17:00	8° \mathbb{Z} 26'40	8.03901 AU				
direct	-4749 Oct 13 j 21:41	5° \mathbb{Z} 01'15		conjunction	-4742 May 12 j 18:37	13° \mathbb{Y} 11'17	-1°34'57
evening set	-4748 Jan 23 j 17:17	13° \mathbb{Z} 05'43		minimum elong	-4742 May 12 j 18:41	13° \mathbb{Y} 11'18	1°34'54
				max. Earth dist.	-4742 May 13 j 11:51	13° \mathbb{Y} 16'52	10.05975 AU
conjunction	-4748 Feb 10 j 08:48	15° \mathbb{Z} 24'21	-1°51'38	morning rise	-4742 May 30 j 19:58	15° \mathbb{Y} 30'43	

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Attention, astronomical year style is used: The year -4742 in astronomical counting style is the year 4743 BCE in historical counting style.

retrograde	-4742 Sep 10 j 22:30	23° Υ 34'24		conjunction	-4736 Jul 30 j 13:38	0° \ominus 09'16	1°24'36
opposition	-4742 Nov 16 j 09:29	20° Υ 06'57	-1°41'20	minimum elong	-4736 Jul 30 j 13:35	0° \ominus 09'15	1°24'51
min. Earth dist.	-4742 Nov 15 j 20:09	20° Υ 09'42	8.12055 AU	max. Earth dist.	-4736 Jul 30 j 15:34	0° \ominus 09'51	10.91234 AU
direct	-4741 Jan 23 j 04:40	16° Υ 36'45		morning rise	-4736 Aug 16 j 12:36	2° \ominus 09'16	
evening set	-4741 May 09 j 11:58	24° Υ 47'41		retrograde	-4736 Nov 23 j 00:46	9° \ominus 06'50	
				opposition	-4735 Jan 30 j 16:18	5° \ominus 49'42	1°57'19
conjunction	-4741 May 27 j 14:01	27° Υ 05'22	-1°06'22	min. Earth dist.	-4735 Jan 30 j 15:05	5° \ominus 49'56	8.97261 AU
minimum elong	-4741 May 27 j 14:04	27° Υ 05'23	1°06'16	direct	-4735 Apr 12 j 00:52	2° \ominus 26'43	
max. Earth dist.	-4741 May 28 j 06:37	27° Υ 10'40	10.18648 AU	evening set	-4735 Jul 25 j 09:52	9° \ominus 41'53	
morning rise	-4741 Jun 14 j 12:36	29° Υ 21'55					
	-4741 Jun 19 j 15:24	0° $\mathbin{\text{\textcircled{8}}}$		conjunction	-4735 Aug 11 j 08:55	11° \ominus 40'39	1°46'36
retrograde	-4741 Sep 24 j 10:11	7° $\mathbin{\text{\textcircled{8}}}$ 12'06		minimum elong	-4735 Aug 11 j 08:52	11° \ominus 40'38	1°46'51
opposition	-4741 Nov 30 j 02:00	3° $\mathbin{\text{\textcircled{8}}}$ 46'29	-1°03'27	max. Earth dist.	-4735 Aug 11 j 08:17	11° \ominus 40'28	11.02731 AU
min. Earth dist.	-4741 Nov 29 j 13:25	3° $\mathbin{\text{\textcircled{8}}}$ 49'02	8.25589 AU	morning rise	-4735 Aug 28 j 03:04	13° \ominus 38'03	
direct	-4740 Feb 06 j 13:39	0° $\mathbin{\text{\textcircled{8}}}$ 16'59		retrograde	-4735 Dec 04 j 14:29	20° \ominus 30'15	
evening set	-4740 May 22 j 21:20	8° $\mathbin{\text{\textcircled{8}}}$ 18'35		opposition	-4734 Feb 11 j 15:49	17° \ominus 14'06	2°21'15
				min. Earth dist.	-4734 Feb 11 j 17:51	17° \ominus 13'43	9.07767 AU
conjunction	-4740 Jun 09 j 20:38	10° $\mathbin{\text{\textcircled{8}}}$ 33'15	-0°34'52	direct	-4734 Apr 24 j 06:38	13° \ominus 52'25	
minimum elong	-4740 Jun 09 j 20:40	10° $\mathbin{\text{\textcircled{8}}}$ 33'15	0°34'43	evening set	-4734 Aug 06 j 01:53	21° \ominus 00'52	
max. Earth dist.	-4740 Jun 10 j 11:38	10° $\mathbin{\text{\textcircled{8}}}$ 37'58	10.32975 AU				
morning rise	-4740 Jun 27 j 15:25	12° $\mathbin{\text{\textcircled{8}}}$ 46'30		conjunction	-4734 Aug 22 j 20:15	22° \ominus 57'22	2°04'00
	-4740 Jul 16 j 08:25	15° $\mathbin{\text{\textcircled{8}}}$		minimum elong	-4734 Aug 22 j 20:13	22° \ominus 57'21	2°04'15
retrograde	-4740 Oct 06 j 12:40	20° $\mathbin{\text{\textcircled{8}}}$ 23'26		max. Earth dist.	-4734 Aug 22 j 15:55	22° \ominus 56'06	11.12011 AU
opposition	-4740 Dec 12 j 10:15	16° $\mathbin{\text{\textcircled{8}}}$ 59'44	-0°23'26	morning rise	-4734 Sep 08 j 10:27	24° \ominus 52'42	
min. Earth dist.	-4740 Dec 11 j 23:26	17° $\mathbin{\text{\textcircled{8}}}$ 01'54	8.40394 AU		-4734 Oct 31 j 07:00	0° $\mathbin{\text{\textcircled{8}}}$	
	-4739 Jan 08 j 01:38	15° $\mathbin{\text{\textcircled{8}}}$		retrograde	-4734 Dec 15 j 22:31	1° $\mathbin{\text{\textcircled{8}}}$ 41'18	
direct	-4739 Feb 19 j 13:33	13° $\mathbin{\text{\textcircled{8}}}$ 31'16			-4733 Feb 01 j 06:19	30° $\mathbin{\text{\textcircled{8}}}$	
	-4739 Apr 02 j 19:40	15° $\mathbin{\text{\textcircled{8}}}$		opposition	-4733 Feb 23 j 11:54	28° \ominus 25'49	2°39'20
evening set	-4739 Jun 05 j 18:18	21° $\mathbin{\text{\textcircled{8}}}$ 22'50		min. Earth dist.	-4733 Feb 23 j 17:12	28° \ominus 24'50	9.15869 AU
				direct	-4733 May 06 j 05:40	25° \ominus 05'16	
conjunction	-4739 Jun 23 j 13:38	23° $\mathbin{\text{\textcircled{8}}}$ 34'10	-0°02'29		-4733 Jul 28 j 21:42	0° $\mathbin{\text{\textcircled{8}}}$	
minimum elong	-4739 Jun 23 j 13:38	23° $\mathbin{\text{\textcircled{8}}}$ 34'10	0°02'18	evening set	-4733 Aug 17 j 11:20	2° $\mathbin{\text{\textcircled{8}}}$ 08'16	
behind sun begin	-4739 Jun 23 j 06:24	23° $\mathbin{\text{\textcircled{8}}}$ 31'57					
behind sun end	-4739 Jun 23 j 20:52	23° $\mathbin{\text{\textcircled{8}}}$ 36'23		conjunction	-4733 Sep 03 j 01:42	4° $\mathbin{\text{\textcircled{8}}}$ 03'01	2°16'27
max. Earth dist.	-4739 Jun 24 j 02:02	23° $\mathbin{\text{\textcircled{8}}}$ 37'59	10.48136 AU	minimum elong	-4733 Sep 03 j 01:40	4° $\mathbin{\text{\textcircled{8}}}$ 03'00	2°16'40
morning rise	-4739 Jul 11 j 03:50	25° $\mathbin{\text{\textcircled{8}}}$ 43'55		max. Earth dist.	-4733 Sep 02 j 17:37	4° $\mathbin{\text{\textcircled{8}}}$ 00'40	11.18732 AU
asc. node	-4739 Jul 22 j 02:48	27° $\mathbin{\text{\textcircled{8}}}$ 02'06		morning rise	-4733 Sep 19 j 12:46	5° $\mathbin{\text{\textcircled{8}}}$ 56'50	
	-4739 Aug 18 j 21:47	0° $\mathbin{\text{\textcircled{8}}}$		retrograde	-4733 Dec 27 j 06:44	12° $\mathbin{\text{\textcircled{8}}}$ 43'40	
retrograde	-4739 Oct 19 j 03:16	3° $\mathbin{\text{\textcircled{8}}}$ 08'36		opposition	-4732 Mar 06 j 05:38	9° $\mathbin{\text{\textcircled{8}}}$ 28'27	2°51'16
	-4739 Dec 22 j 15:27	30° $\mathbin{\text{\textcircled{8}}}$		min. Earth dist.	-4732 Mar 06 j 13:21	9° $\mathbin{\text{\textcircled{8}}}$ 27'03	9.21248 AU
opposition	-4739 Dec 25 j 10:21	29° $\mathbin{\text{\textcircled{8}}}$ 46'49	0°16'21	direct	-4732 May 17 j 02:52	6° $\mathbin{\text{\textcircled{8}}}$ 08'52	
min. Earth dist.	-4739 Dec 25 j 02:10	29° $\mathbin{\text{\textcircled{8}}}$ 48'26	8.55676 AU	evening set	-4732 Aug 27 j 15:35	13° $\mathbin{\text{\textcircled{8}}}$ 07'45	
direct	-4738 Mar 05 j 05:52	26° $\mathbin{\text{\textcircled{8}}}$ 19'36			-4732 Sep 12 j 22:23	15° $\mathbin{\text{\textcircled{8}}}$	
	-4738 May 13 j 12:34	0° $\mathbin{\text{\textcircled{8}}}$					
evening set	-4738 Jun 19 j 02:55	4° $\mathbin{\text{\textcircled{8}}}$ 01'07		conjunction	-4732 Sep 13 j 03:01	15° $\mathbin{\text{\textcircled{8}}}$ 01'21	2°23'45
				minimum elong	-4732 Sep 13 j 03:00	15° $\mathbin{\text{\textcircled{8}}}$ 01'20	2°23'55
conjunction	-4738 Jul 06 j 17:27	6° $\mathbin{\text{\textcircled{8}}}$ 09'00	0°29'11	max. Earth dist.	-4732 Sep 12 j 16:40	14° $\mathbin{\text{\textcircled{8}}}$ 58'21	11.22622 AU
minimum elong	-4738 Jul 06 j 17:25	6° $\mathbin{\text{\textcircled{8}}}$ 09'00	0°29'23	morning rise	-4732 Sep 29 j 11:45	16° $\mathbin{\text{\textcircled{8}}}$ 54'13	
max. Earth dist.	-4738 Jul 07 j 02:07	6° $\mathbin{\text{\textcircled{8}}}$ 11'38	10.63361 AU	retrograde	-4731 Jan 06 j 15:33	23° $\mathbin{\text{\textcircled{8}}}$ 41'06	
morning rise	-4738 Jul 24 j 02:42	8° $\mathbin{\text{\textcircled{8}}}$ 15'18		opposition	-4731 Mar 17 j 22:36	20° $\mathbin{\text{\textcircled{8}}}$ 25'49	2°56'54
retrograde	-4738 Oct 31 j 08:54	15° $\mathbin{\text{\textcircled{8}}}$ 29'11		min. Earth dist.	-4731 Mar 18 j 08:04	20° $\mathbin{\text{\textcircled{8}}}$ 24'06	9.23670 AU
opposition	-4737 Jan 07 j 02:41	12° $\mathbin{\text{\textcircled{8}}}$ 09'11	0°53'58	direct	-4731 May 28 j 17:49	17° $\mathbin{\text{\textcircled{8}}}$ 07'01	
min. Earth dist.	-4737 Jan 06 j 21:02	12° $\mathbin{\text{\textcircled{8}}}$ 10'16	8.70690 AU	evening set	-4731 Sep 07 j 16:24	24° $\mathbin{\text{\textcircled{8}}}$ 03'11	
direct	-4737 Mar 18 j 13:08	8° $\mathbin{\text{\textcircled{8}}}$ 43'19					
evening set	-4737 Jul 01 j 23:40	16° $\mathbin{\text{\textcircled{8}}}$ 15'14		conjunction	-4731 Sep 24 j 01:52	25° $\mathbin{\text{\textcircled{8}}}$ 56'14	2°25'46
				minimum elong	-4731 Sep 24 j 01:53	25° $\mathbin{\text{\textcircled{8}}}$ 56'14	2°25'54
conjunction	-4737 Jul 19 j 08:59	18° $\mathbin{\text{\textcircled{8}}}$ 19'47	0°58'32	max. Earth dist.	-4731 Sep 23 j 13:34	25° $\mathbin{\text{\textcircled{8}}}$ 52'40	11.23509 AU
minimum elong	-4737 Jul 19 j 08:56	18° $\mathbin{\text{\textcircled{8}}}$ 19'46	0°58'46	morning rise	-4731 Oct 10 j 09:21	27° $\mathbin{\text{\textcircled{8}}}$ 48'48	
max. Earth dist.	-4737 Jul 19 j 13:46	18° $\mathbin{\text{\textcircled{8}}}$ 21'14	10.77938 AU		-4731 Oct 30 j 11:17	0° $\mathbin{\text{\textcircled{8}}}$	
morning rise	-4737 Aug 05 j 13:07	20° $\mathbin{\text{\textcircled{8}}}$ 22'46		retrograde	-4730 Jan 18 j 02:15	4° $\mathbin{\text{\textcircled{8}}}$ 37'33	
retrograde	-4737 Nov 12 j 07:58	27° $\mathbin{\text{\textcircled{8}}}$ 27'35		opposition	-4730 Mar 29 j 16:01	1° $\mathbin{\text{\textcircled{8}}}$ 21'53	2°56'10
opposition	-4736 Jan 19 j 12:18	24° $\mathbin{\text{\textcircled{8}}}$ 09'09	1°27'59	min. Earth dist.	-4730 Mar 30 j 03:52	1° $\mathbin{\text{\textcircled{8}}}$ 19'44	9.23045 AU
min. Earth dist.	-4736 Jan 19 j 08:47	24° $\mathbin{\text{\textcircled{8}}}$ 09'49	8.84746 AU		-4730 Apr 18 j 00:15	30° $\mathbin{\text{\textcircled{8}}}$	
direct	-4736 Mar 30 j 10:44	20° $\mathbin{\text{\textcircled{8}}}$ 44'44		direct	-4730 Jun 09 j 06:24	28° $\mathbin{\text{\textcircled{8}}}$ 03'37	
evening set	-4736 Jul 13 j 09:33	28° $\mathbin{\text{\textcircled{8}}}$ 07'47			-4730 Jul 29 j 13:57	0° $\mathbin{\text{\textcircled{8}}}$	
	-4736 Jul 29 j 06:26	0° $\mathbin{\text{\textcircled{8}}}$		evening set	-4730 Sep 18 j 15:54	4° $\mathbin{\text{\textcircled{8}}}$ 58'35	
				max. Earth dist.	-4730 Oct 04 j 09:13	6° $\mathbin{\text{\textcircled{8}}}$ 47'18	11.21397 AU

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Attention, astronomical year style is used: The year -4730 in astronomical counting style is the year 4731 BCE in historical counting style.

conjunction	-4730 Oct 05 j 00:16	6° \mathbb{M} 51'40	2°22'28	morning rise	-4724 Dec 28 j 09:58	18° \mathbb{M} 07'14	
minimum elong	-4730 Oct 05 j 00:18	6° \mathbb{M} 51'41	2°22'34	retrograde	-4723 Apr 12 j 22:14	25° \mathbb{M} 52'29	
morning rise	-4730 Oct 21 j 07:44	8° \mathbb{M} 44'34		opposition	-4723 Jun 22 j 06:52	22° \mathbb{M} 26'39	0°06'57
retrograde	-4729 Jan 29 j 15:04	15° \mathbb{M} 36'50		min. Earth dist.	-4723 Jun 22 j 16:30	22° \mathbb{M} 24'47	8.50243 AU
opposition	-4729 Apr 10 j 10:57	12° \mathbb{M} 20'28	2°49'04	desc. node	-4723 Aug 27 j 13:24	19° \mathbb{M} 05'27	
min. Earth dist.	-4729 Apr 11 j 01:01	12° \mathbb{M} 17'54	9.19450 AU	direct	-4723 Aug 29 j 09:22	19° \mathbb{M} 05'17	
direct	-4729 Jun 20 j 18:12	9° \mathbb{M} 02'28		evening set	-4723 Dec 07 j 03:49	26° \mathbb{M} 33'04	
evening set	-4729 Sep 29 j 15:36	15° \mathbb{M} 57'40					
conjunction	-4729 Oct 15 j 23:57	17° \mathbb{M} 51'24	2°13'55	conjunction	-4723 Dec 24 j 05:18	28° \mathbb{M} 41'03	-0°10'09
minimum elong	-4729 Oct 15 j 23:59	17° \mathbb{M} 51'24	2°14'00	minimum elong	-4723 Dec 24 j 05:17	28° \mathbb{M} 41'03	0°10'20
max. Earth dist.	-4729 Oct 15 j 07:14	17° \mathbb{M} 46'30	11.16414 AU	behind sun begin	-4723 Dec 23 j 23:39	28° \mathbb{M} 39'18	
morning rise	-4729 Nov 01 j 08:27	19° \mathbb{M} 45'13		behind sun end	-4723 Dec 24 j 10:56	28° \mathbb{M} 42'48	
retrograde	-4728 Feb 10 j 08:12	26° \mathbb{M} 42'42		max. Earth dist.	-4723 Dec 23 j 19:39	28° \mathbb{M} 38'02	10.42718 AU
opposition	-4728 Apr 21 j 08:54	23° \mathbb{M} 25'15	2°35'41		-4722 Jan 03 j 16:30	0° \mathbb{Z}	
min. Earth dist.	-4728 Apr 21 j 23:43	23° \mathbb{M} 22'32	9.13049 AU	morning rise	-4722 Jan 10 j 11:32	0° \mathbb{Z} 50'38	
direct	-4728 Jul 01 j 07:49	20° \mathbb{M} 07'15		retrograde	-4722 Apr 26 j 21:20	8° \mathbb{Z} 48'20	
evening set	-4728 Oct 09 j 17:09	27° \mathbb{M} 04'07		opposition	-4722 Jul 05 j 18:50	5° \mathbb{Z} 20'45	-0°33'10
max. Earth dist.	-4728 Oct 25 j 10:14	28° \mathbb{M} 54'14	11.08747 AU	min. Earth dist.	-4722 Jul 06 j 01:14	5° \mathbb{Z} 19'30	8.35061 AU
				direct	-4722 Sep 11 j 06:07	1° \mathbb{Z} 58'11	
				evening set	-4722 Dec 20 j 09:34	9° \mathbb{Z} 36'15	
conjunction	-4728 Oct 26 j 02:39	28° \mathbb{M} 59'04	2°00'16				
minimum elong	-4728 Oct 26 j 02:42	28° \mathbb{M} 59'05	2°00'17	conjunction	-4721 Jan 06 j 15:10	11° \mathbb{Z} 47'35	-0°42'29
	-4728 Nov 03 j 17:57	0° \mathbb{Z}		minimum elong	-4721 Jan 06 j 15:08	11° \mathbb{Z} 47'34	0°42'42
morning rise	-4728 Nov 11 j 13:02	0° \mathbb{Z} 54'22		max. Earth dist.	-4721 Jan 06 j 08:26	11° \mathbb{Z} 45'26	10.27771 AU
retrograde	-4727 Feb 21 j 10:15	7° \mathbb{Z} 58'40		morning rise	-4721 Jan 24 j 01:58	14° \mathbb{Z} 00'38	
opposition	-4727 May 03 j 10:51	4° \mathbb{Z} 39'50	2°16'11	retrograde	-4721 May 11 j 06:53	22° \mathbb{Z} 10'41	
min. Earth dist.	-4727 May 04 j 01:13	4° \mathbb{Z} 37'12	9.04074 AU	opposition	-4721 Jul 19 j 15:06	18° \mathbb{Z} 41'32	-1°13'00
direct	-4727 Jul 12 j 23:38	1° \mathbb{Z} 21'37		min. Earth dist.	-4721 Jul 19 j 18:20	18° \mathbb{Z} 40'53	8.20606 AU
evening set	-4727 Oct 20 j 22:51	8° \mathbb{Z} 21'35		direct	-4721 Sep 24 j 11:20	15° \mathbb{Z} 17'41	
				evening set	-4720 Jan 03 j 05:11	23° \mathbb{Z} 06'44	
conjunction	-4727 Nov 06 j 10:19	10° \mathbb{Z} 18'19	1°41'44				
minimum elong	-4727 Nov 06 j 10:21	10° \mathbb{Z} 18'20	1°41'42	conjunction	-4720 Jan 20 j 14:52	25° \mathbb{Z} 21'18	-1°13'30
max. Earth dist.	-4727 Nov 05 j 18:00	10° \mathbb{Z} 13'28	10.98663 AU	minimum elong	-4720 Jan 20 j 14:49	25° \mathbb{Z} 21'17	1°13'44
morning rise	-4727 Nov 22 j 23:30	12° \mathbb{Z} 15'40		max. Earth dist.	-4720 Jan 20 j 11:29	25° \mathbb{Z} 20'13	10.13937 AU
retrograde	-4726 Mar 05 j 17:20	19° \mathbb{Z} 28'14		morning rise	-4720 Feb 07 j 05:59	27° \mathbb{Z} 37'39	
opposition	-4726 May 15 j 17:43	16° \mathbb{Z} 07'49	1°50'54		-4720 Feb 26 j 13:25	0° \mathbb{Z}	
min. Earth dist.	-4726 May 16 j 07:42	16° \mathbb{Z} 05'13	8.92846 AU	retrograde	-4720 May 25 j 01:18	5° \mathbb{Z} 59'03	
direct	-4726 Jul 24 j 16:02	12° \mathbb{Z} 49'07		opposition	-4720 Aug 01 j 19:07	2° \mathbb{Z} 28'36	-1°50'04
evening set	-4726 Nov 01 j 10:29	19° \mathbb{Z} 53'47		min. Earth dist.	-4720 Aug 01 j 19:24	2° \mathbb{Z} 28'33	8.07708 AU
max. Earth dist.	-4726 Nov 17 j 07:56	21° \mathbb{Z} 47'45	10.86524 AU		-4720 Sep 04 j 22:32	30° \mathbb{R} \mathbb{Z}	
				direct	-4720 Oct 07 j 03:06	29° \mathbb{Z} 03'23	
conjunction	-4726 Nov 18 j 00:33	21° \mathbb{Z} 52'45	1°18'43		-4720 Nov 07 j 21:13	0° \mathbb{Z}	
minimum elong	-4726 Nov 18 j 00:36	21° \mathbb{Z} 52'46	1°18'38	evening set	-4719 Jan 16 j 14:33	7° \mathbb{Z} 03'31	
morning rise	-4726 Dec 04 j 17:28	23° \mathbb{Z} 52'39					
	-4725 Feb 06 j 21:05	0° \mathbb{M}		conjunction	-4719 Feb 03 j 04:14	9° \mathbb{Z} 21'04	-1°41'05
retrograde	-4725 Mar 18 j 09:10	1° \mathbb{M} 14'56		minimum elong	-4719 Feb 03 j 04:10	9° \mathbb{Z} 21'03	1°41'19
	-4725 Apr 27 j 17:32	30° \mathbb{R} \mathbb{Z}		max. Earth dist.	-4719 Feb 03 j 04:56	9° \mathbb{Z} 21'18	10.02045 AU
opposition	-4725 May 28 j 06:52	27° \mathbb{Z} 52'47	1°20'21	morning rise	-4719 Feb 20 j 23:11	11° \mathbb{Z} 40'19	
min. Earth dist.	-4725 May 28 j 20:32	27° \mathbb{Z} 50'13	8.79776 AU	retrograde	-4719 Jun 09 j 01:39	20° \mathbb{Z} 11'02	
direct	-4725 Aug 05 j 15:20	24° \mathbb{Z} 33'22		opposition	-4719 Aug 16 j 05:47	16° \mathbb{Z} 39'41	-2°21'35
	-4725 Oct 29 j 06:42	0° \mathbb{M}		min. Earth dist.	-4719 Aug 16 j 02:59	16° \mathbb{Z} 40'15	7.97166 AU
evening set	-4725 Nov 13 j 05:50	1° \mathbb{M} 44'16		direct	-4719 Oct 21 j 05:56	13° \mathbb{Z} 13'09	
				evening set	-4718 Jan 31 j 12:39	21° \mathbb{Z} 23'32	
conjunction	-4725 Nov 29 j 23:11	3° \mathbb{M} 45'55	0°51'49				
minimum elong	-4725 Nov 29 j 23:13	3° \mathbb{M} 45'56	0°51'41	conjunction	-4718 Feb 18 j 06:02	23° \mathbb{Z} 43'35	-2°03'06
max. Earth dist.	-4725 Nov 29 j 07:51	3° \mathbb{M} 41'14	10.72778 AU	minimum elong	-4718 Feb 18 j 05:59	23° \mathbb{Z} 43'34	2°03'19
morning rise	-4725 Dec 16 j 20:21	5° \mathbb{M} 48'47		max. Earth dist.	-4718 Feb 18 j 11:21	23° \mathbb{Z} 45'21	9.92876 AU
retrograde	-4724 Mar 30 j 10:51	13° \mathbb{M} 22'04		morning rise	-4718 Mar 08 j 04:06	26° \mathbb{Z} 05'09	
opposition	-4724 Jun 09 j 03:05	9° \mathbb{M} 58'05	0°45'20		-4718 Apr 09 j 07:50	0° \mathbb{Z}	
min. Earth dist.	-4724 Jun 09 j 15:18	9° \mathbb{M} 55'45	8.65376 AU	retrograde	-4718 Jun 24 j 05:56	4° \mathbb{Z} 42'10	
direct	-4724 Aug 16 j 20:28	6° \mathbb{M} 37'46		opposition	-4718 Aug 30 j 21:18	1° \mathbb{Z} 10'19	-2°44'52
evening set	-4724 Nov 24 j 11:01	13° \mathbb{M} 56'25		min. Earth dist.	-4718 Aug 30 j 15:16	1° \mathbb{Z} 11'35	7.89697 AU
	-4724 Dec 03 j 02:53	15° \mathbb{M}			-4718 Sep 14 j 06:20	30° \mathbb{R} \mathbb{Z}	
				direct	-4718 Nov 04 j 16:50	27° \mathbb{Z} 42'37	
conjunction	-4724 Dec 11 j 08:19	16° \mathbb{M} 01'07	0°21'50		-4718 Dec 24 j 14:31	0° \mathbb{Z}	
minimum elong	-4724 Dec 11 j 08:20	16° \mathbb{M} 01'07	0°21'40	evening set	-4717 Feb 15 j 21:01	6° \mathbb{Z} 01'26	
max. Earth dist.	-4724 Dec 10 j 19:36	15° \mathbb{M} 57'11	10.57964 AU				

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Attention, astronomical year style is used: The year -4717 in astronomical counting style is the year 4718 BCE in historical counting style.

conjunction	-4717 Mar 05 j 17:49	8° \approx 23'22	-2°17'36	min. Earth dist.	-4712 Nov 23 j 01:16	28° Υ 08'36	8.20878 AU
minimum elong	-4717 Mar 05 j 17:48	8° \approx 23'22	2°17'48	direct	-4711 Jan 30 j 16:09	24° Υ 36'54	
max. Earth dist.	-4717 Mar 06 j 03:59	8° \approx 26'46	9.87102 AU		-4711 Apr 24 j 07:10	0° \mathcal{B}	
morning rise	-4717 Mar 23 j 18:20	10° \approx 46'29		evening set	-4711 May 17 j 01:33	2° \mathcal{B} 42'22	
	-4717 Apr 27 j 12:59	15° \approx					
retrograde	-4717 Jul 09 j 12:01	19° \approx 25'55		conjunction	-4711 Jun 04 j 02:00	4° \mathcal{B} 58'16	-0°48'47
opposition	-4717 Sep 14 j 15:33	15° \approx 54'03	-2°57'42	minimum elong	-4711 Jun 04 j 02:03	4° \mathcal{B} 58'17	0°48'40
min. Earth dist.	-4717 Sep 14 j 06:11	15° \approx 56'00	7.85856 AU	max. Earth dist.	-4711 Jun 04 j 16:24	5° \mathcal{B} 02'49	10.27882 AU
	-4717 Sep 25 j 12:43	15° $\mathcal{R}\approx$		morning rise	-4711 Jun 21 j 22:37	7° \mathcal{B} 12'53	
direct	-4717 Nov 19 j 10:17	12° \approx 25'21		retrograde	-4711 Oct 01 j 07:04	14° \mathcal{B} 55'21	
	-4716 Jan 11 j 15:50	15° \approx		opposition	-4711 Dec 07 j 01:17	11° \mathcal{B} 31'24	-0°40'56
evening set	-4716 Mar 02 j 12:16	20° \approx 49'54		min. Earth dist.	-4711 Dec 06 j 14:50	11° \mathcal{B} 33'30	8.35001 AU
				direct	-4710 Feb 13 j 21:02	8° \mathcal{B} 03'00	
conjunction	-4716 Mar 20 j 12:03	23° \approx 12'56	-2°23'14		-4710 May 23 j 00:29	15° \mathcal{B}	
minimum elong	-4716 Mar 20 j 12:04	23° \approx 12'56	2°23'23	evening set	-4710 May 31 j 04:00	15° \mathcal{B} 58'51	
max. Earth dist.	-4716 Mar 21 j 02:34	23° \approx 17'47	9.85172 AU				
morning rise	-4716 Apr 07 j 14:18	25° \approx 36'45		conjunction	-4710 Jun 18 j 01:04	18° \mathcal{B} 11'36	-0°16'33
	-4716 May 13 j 20:21	0° \mathcal{H}		minimum elong	-4710 Jun 18 j 01:05	18° \mathcal{B} 11'36	0°16'23
retrograde	-4716 Jul 23 j 16:10	4° \mathcal{H} 14'13		max. Earth dist.	-4710 Jun 18 j 12:37	18° \mathcal{B} 15'11	10.42441 AU
opposition	-4716 Sep 28 j 09:56	0° \mathcal{H} 42'48	-2°58'46	morning rise	-4710 Jul 05 j 17:32	20° \mathcal{B} 22'51	
min. Earth dist.	-4716 Sep 27 j 21:46	0° \mathcal{H} 45'21	7.85930 AU	retrograde	-4710 Oct 14 j 01:58	27° \mathcal{B} 52'48	
	-4716 Oct 06 j 23:22	30° $\mathcal{R}\approx$		opposition	-4710 Dec 20 j 05:00	24° \mathcal{B} 30'40	-0°00'47
direct	-4716 Dec 03 j 08:08	27° \approx 13'23		min. Earth dist.	-4710 Dec 19 j 20:10	24° \mathcal{B} 32'25	8.49755 AU
	-4715 Jan 28 j 00:40	0° \mathcal{H}		asc. node	-4710 Dec 27 j 16:32	23° \mathcal{B} 55'19	
evening set	-4715 Mar 18 j 06:23	5° \mathcal{H} 40'20		direct	-4709 Feb 27 j 18:10	21° \mathcal{B} 03'19	
				evening set	-4709 Jun 13 j 18:20	28° \mathcal{B} 49'18	
conjunction	-4715 Apr 05 j 08:28	8° \mathcal{H} 03'35	-2°19'25		-4709 Jun 23 j 11:37	0° \mathcal{H}	
minimum elong	-4715 Apr 05 j 08:31	8° \mathcal{H} 03'36	2°19'31	conjunction	-4709 Jul 01 j 11:08	0° \mathcal{H} 58'41	0°15'40
max. Earth dist.	-4715 Apr 06 j 02:06	8° \mathcal{H} 09'27	9.87238 AU	minimum elong	-4709 Jul 01 j 11:07	0° \mathcal{H} 58'41	0°15'51
morning rise	-4715 Apr 23 j 11:35	10° \mathcal{H} 27'09		behind sun begin	-4709 Jul 01 j 10:31	0° \mathcal{H} 58'30	
retrograde	-4715 Aug 07 j 15:15	18° \mathcal{H} 58'22		behind sun end	-4709 Jul 01 j 11:43	0° \mathcal{H} 58'52	
min. Earth dist.	-4715 Oct 12 j 11:51	15° \mathcal{H} 30'48	7.89916 AU	max. Earth dist.	-4709 Jul 01 j 20:02	1° \mathcal{H} 01'25	10.57261 AU
opposition	-4715 Oct 13 j 01:46	15° \mathcal{H} 27'53	-2°47'59	morning rise	-4709 Jul 18 j 22:41	3° \mathcal{H} 06'30	
direct	-4715 Dec 18 j 08:17	11° \mathcal{H} 58'02		retrograde	-4709 Oct 26 j 12:41	10° \mathcal{H} 25'09	
evening set	-4714 Apr 02 j 22:45	20° \mathcal{H} 23'49		opposition	-4708 Jan 02 j 00:49	7° \mathcal{H} 04'42	0°38'00
conjunction	-4714 Apr 21 j 02:13	22° \mathcal{H} 46'23	-2°06'33	min. Earth dist.	-4708 Jan 01 j 18:15	7° \mathcal{H} 05'59	8.64461 AU
minimum elong	-4714 Apr 21 j 02:17	22° \mathcal{H} 46'24	2°06'35	direct	-4708 Mar 12 j 05:03	3° \mathcal{H} 38'31	
max. Earth dist.	-4714 Apr 21 j 21:35	22° \mathcal{H} 52'46	9.93139 AU	evening set	-4708 Jun 25 j 20:44	11° \mathcal{H} 14'48	
morning rise	-4714 May 09 j 05:17	25° \mathcal{H} 08'46					
	-4714 Jun 19 j 13:55	0° Υ		conjunction	-4708 Jul 13 j 08:34	13° \mathcal{H} 20'52	0°46'10
retrograde	-4714 Aug 22 j 05:36	3° Υ 30'12		minimum elong	-4708 Jul 13 j 08:32	13° \mathcal{H} 20'51	0°46'22
opposition	-4714 Oct 27 j 12:49	0° Υ 01'01	-2°26'30	max. Earth dist.	-4708 Jul 13 j 14:42	13° \mathcal{H} 22'43	10.71673 AU
min. Earth dist.	-4714 Oct 26 j 22:20	0° Υ 04'02	7.97508 AU	morning rise	-4708 Jul 30 j 14:52	15° \mathcal{H} 25'18	
	-4714 Oct 27 j 17:42	30° $\mathcal{R}\mathcal{H}$		retrograde	-4708 Nov 06 j 16:06	22° \mathcal{H} 34'13	
direct	-4713 Jan 02 j 07:48	26° \mathcal{H} 31'03		opposition	-4707 Jan 13 j 13:48	19° \mathcal{H} 15'15	1°13'47
	-4713 Mar 07 j 09:26	0° Υ		min. Earth dist.	-4707 Jan 13 j 10:23	19° \mathcal{H} 15'54	8.78475 AU
evening set	-4713 Apr 18 j 09:11	4° \mathcal{U} 52'20		direct	-4707 Mar 25 j 06:03	15° \mathcal{H} 50'17	
				evening set	-4707 Jul 08 j 11:41	23° \mathcal{H} 17'25	
conjunction	-4713 May 06 j 12:57	7° Υ 13'20	-1°45'53				
minimum elong	-4713 May 06 j 13:01	7° Υ 13'22	1°45'52	conjunction	-4707 Jul 25 j 18:08	25° \mathcal{H} 20'19	1°13'48
max. Earth dist.	-4713 May 07 j 08:23	7° Υ 19'40	10.02403 AU	minimum elong	-4707 Jul 25 j 18:06	25° \mathcal{H} 20'18	1°14'02
morning rise	-4713 May 24 j 14:58	9° Υ 33'44		max. Earth dist.	-4707 Jul 25 j 20:28	25° \mathcal{H} 21'01	10.85061 AU
retrograde	-4713 Sep 05 j 08:46	17° Υ 42'55		morning rise	-4707 Aug 11 j 19:18	27° \mathcal{H} 21'40	
opposition	-4713 Nov 10 j 17:05	14° \mathcal{U} 15'19	-1°56'24		-4707 Sep 04 j 12:25	0° \mathcal{G}	
min. Earth dist.	-4713 Nov 10 j 03:26	14° \mathcal{U} 18'08	8.08102 AU	retrograde	-4707 Nov 18 j 10:08	4° \mathcal{G} 22'35	
direct	-4712 Jan 17 j 03:15	10° \mathcal{U} 45'32		opposition	-4706 Jan 25 j 20:36	1° \mathcal{G} 04'50	1°45'18
evening set	-4712 May 02 j 10:53	18° \mathcal{U} 59'44		min. Earth dist.	-4706 Jan 25 j 20:16	1° \mathcal{G} 04'54	8.91212 AU
					-4706 Feb 09 j 08:53	30° $\mathcal{R}\mathcal{H}$	
conjunction	-4712 May 20 j 13:38	21° \mathcal{U} 18'27	-1°19'16	direct	-4706 Apr 07 j 00:03	27° \mathcal{H} 41'03	
minimum elong	-4712 May 20 j 13:41	21° \mathcal{U} 18'29	1°19'11		-4706 Jun 01 j 02:21	0° \mathcal{G}	
max. Earth dist.	-4712 May 21 j 07:05	21° \mathcal{U} 24'03	10.14275 AU	evening set	-4706 Jul 20 j 16:27	4° \mathcal{G} 59'59	
morning rise	-4712 Jun 07 j 13:28	23° \mathcal{U} 36'11					
	-4712 Aug 07 j 20:18	0° \mathcal{B}		conjunction	-4706 Aug 06 j 17:37	7° \mathcal{G} 00'00	1°37'40
retrograde	-4712 Sep 18 j 01:03	1° \mathcal{B} 31'58		minimum elong	-4706 Aug 06 j 17:34	6° \mathcal{G} 59'59	1°37'55
	-4712 Oct 29 j 21:03	30° $\mathcal{R}\mathcal{U}$		max. Earth dist.	-4706 Aug 06 j 16:00	6° \mathcal{G} 59'32	10.96902 AU
opposition	-4712 Nov 23 j 13:17	28° \mathcal{U} 06'09	-1°20'19	morning rise	-4706 Aug 23 j 14:02	8° \mathcal{G} 58'38	

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Attention, astronomical year style is used: The year -4706 in astronomical counting style is the year 4707 BCE in historical counting style.

retrograde	-4706 Nov 30 j 00:23	15° \mathfrak{D} 53'22		retrograde	-4699 Feb 04 j 17:41	22° \mathfrak{M} 12'19	
opposition	-4705 Feb 06 j 22:00	12° \mathfrak{D} 36'33	2°11'42	opposition	-4699 Apr 16 j 16:02	18° \mathfrak{M} 54'59	2°42'18
min. Earth dist.	-4705 Feb 07 j 00:03	12° \mathfrak{D} 36'10	9.02172 AU	min. Earth dist.	-4699 Apr 17 j 04:37	18° \mathfrak{M} 52'41	9.15136 AU
direct	-4705 Apr 19 j 11:04	9° \mathfrak{D} 13'54		direct	-4699 Jun 26 j 18:56	15° \mathfrak{M} 36'44	
evening set	-4705 Aug 01 j 12:11	16° \mathfrak{D} 25'40		evening set	-4699 Oct 05 j 09:14	22° \mathfrak{M} 32'56	
conjunction	-4705 Aug 18 j 08:36	18° \mathfrak{D} 23'16	1°57'09	conjunction	-4699 Oct 21 j 18:09	24° \mathfrak{M} 27'22	2°06'47
minimum elong	-4705 Aug 18 j 08:33	18° \mathfrak{D} 23'15	1°57'23	minimum elong	-4699 Oct 21 j 18:12	24° \mathfrak{M} 27'23	2°06'50
max. Earth dist.	-4705 Aug 18 j 04:11	18° \mathfrak{D} 21'58	11.06751 AU	max. Earth dist.	-4699 Oct 21 j 02:42	24° \mathfrak{M} 22'50	11.11647 AU
morning rise	-4705 Sep 04 j 00:39	20° \mathfrak{D} 19'36		morning rise	-4699 Nov 07 j 03:39	26° \mathfrak{M} 22'02	
retrograde	-4705 Dec 11 j 11:13	27° \mathfrak{D} 10'01		retrograde	-4699 Dec 11 j 11:50	0° \mathfrak{D}	
opposition	-4704 Feb 18 j 19:35	23° \mathfrak{D} 53'48	2°32'25	retrograde	-4698 Feb 16 j 15:39	3° \mathfrak{D} 23'19	
min. Earth dist.	-4704 Feb 18 j 23:35	23° \mathfrak{D} 53'04	9.10949 AU	opposition	-4698 Apr 28 j 16:11	0° \mathfrak{D} 04'58	2°25'20
direct	-4704 Apr 30 j 13:55	20° \mathfrak{D} 32'15		min. Earth dist.	-4698 Apr 29 j 06:00	0° \mathfrak{D} 02'26	9.07828 AU
evening set	-4704 Aug 12 j 00:26	27° \mathfrak{D} 38'02		direct	-4698 Apr 29 j 19:13	30° \mathfrak{R} \mathfrak{M}	
conjunction	-4704 Aug 28 j 16:41	29° \mathfrak{D} 33'40	2°11'48	direct	-4698 Jul 08 j 08:37	26° \mathfrak{M} 46'48	
minimum elong	-4704 Aug 28 j 16:39	29° \mathfrak{D} 33'39	2°12'01	evening set	-4698 Sep 11 j 01:54	0° \mathfrak{D}	
max. Earth dist.	-4704 Aug 28 j 10:19	29° \mathfrak{D} 31'49	11.14265 AU	evening set	-4698 Oct 16 j 13:04	3° \mathfrak{D} 45'23	
morning rise	-4704 Sep 01 j 11:07	0° \mathfrak{D}		conjunction	-4698 Nov 01 j 23:27	5° \mathfrak{D} 41'18	1°50'16
retrograde	-4704 Sep 14 j 05:00	1° \mathfrak{D} 28'15		minimum elong	-4698 Nov 01 j 23:29	5° \mathfrak{D} 41'19	1°50'15
opposition	-4704 Dec 21 j 20:45	8° \mathfrak{D} 16'10		max. Earth dist.	-4698 Nov 01 j 07:30	5° \mathfrak{D} 36'34	11.03180 AU
min. Earth dist.	-4703 Mar 01 j 14:35	5° \mathfrak{D} 00'19	2°47'04	morning rise	-4698 Nov 18 j 11:27	7° \mathfrak{D} 37'44	
direct	-4703 Mar 01 j 21:13	4° \mathfrak{D} 59'06	9.17258 AU	retrograde	-4697 Feb 28 j 18:29	14° \mathfrak{D} 46'32	
evening set	-4703 Aug 23 j 07:00	8° \mathfrak{D} 40'49		opposition	-4697 May 10 j 20:48	11° \mathfrak{D} 26'56	2°02'25
conjunction	-4703 Sep 08 j 19:45	10° \mathfrak{D} 35'03	2°21'21	min. Earth dist.	-4697 May 11 j 10:34	11° \mathfrak{D} 24'23	8.98150 AU
minimum elong	-4703 Sep 08 j 19:44	10° \mathfrak{D} 35'02	2°21'32	direct	-4697 Jul 20 j 00:38	8° \mathfrak{D} 08'36	
max. Earth dist.	-4703 Sep 08 j 10:28	10° \mathfrak{D} 32'21	11.19219 AU	evening set	-4697 Oct 27 j 21:53	15° \mathfrak{D} 11'06	
morning rise	-4703 Sep 25 j 05:25	12° \mathfrak{D} 28'27		conjunction	-4697 Nov 13 j 10:43	17° \mathfrak{D} 09'00	1°29'04
retrograde	-4703 Oct 18 j 14:12	15° \mathfrak{D}		minimum elong	-4697 Nov 13 j 10:46	17° \mathfrak{D} 09'01	1°29'00
opposition	-4702 Jan 02 j 03:57	19° \mathfrak{D} 15'37		max. Earth dist.	-4697 Nov 12 j 19:54	17° \mathfrak{D} 04'34	10.92505 AU
min. Earth dist.	-4702 Mar 13 j 08:01	15° \mathfrak{D} 59'49	2°55'27	morning rise	-4697 Nov 30 j 01:54	19° \mathfrak{D} 07'42	
direct	-4702 Mar 13 j 17:25	15° \mathfrak{D} 58'06	9.20911 AU	retrograde	-4696 Mar 12 j 07:55	26° \mathfrak{D} 25'31	
evening set	-4702 Mar 27 j 03:52	15° \mathfrak{R} \mathfrak{D}		opposition	-4696 May 22 j 07:14	23° \mathfrak{D} 04'26	1°33'59
conjunction	-4702 May 24 j 03:28	12° \mathfrak{D} 40'03		min. Earth dist.	-4696 May 22 j 19:40	23° \mathfrak{D} 02'07	8.86443 AU
evening set	-4702 Jul 18 j 19:37	15° \mathfrak{D}		direct	-4696 Jul 30 j 22:46	19° \mathfrak{D} 45'44	
conjunction	-4702 Sep 03 j 09:21	19° \mathfrak{D} 37'50		evening set	-4696 Nov 07 j 13:41	26° \mathfrak{D} 53'36	
conjunction	-4702 Sep 19 j 19:33	21° \mathfrak{D} 31'13	2°25'39	conjunction	-4696 Nov 24 j 05:38	28° \mathfrak{D} 53'58	1°03'43
minimum elong	-4702 Sep 19 j 19:33	21° \mathfrak{D} 31'13	2°25'48	minimum elong	-4696 Nov 24 j 05:40	28° \mathfrak{D} 53'58	1°03'36
max. Earth dist.	-4702 Sep 19 j 07:24	21° \mathfrak{D} 27'42	11.21472 AU	max. Earth dist.	-4696 Nov 23 j 16:07	28° \mathfrak{D} 49'52	10.79997 AU
morning rise	-4702 Oct 06 j 03:42	23° \mathfrak{D} 24'03		morning rise	-4696 Dec 03 j 07:44	0° \mathfrak{M}	
retrograde	-4701 Jan 13 j 12:37	0° \mathfrak{M} 12'15		retrograde	-4696 Dec 11 j 00:41	0° \mathfrak{M} 55'23	
opposition	-4701 Jan 29 j 12:10	30° \mathfrak{R} \mathfrak{D}		opposition	-4695 Mar 25 j 06:43	8° \mathfrak{M} 23'29	
min. Earth dist.	-4701 Mar 25 j 01:10	26° \mathfrak{D} 56'12	2°57'28	min. Earth dist.	-4695 Jun 04 j 00:17	5° \mathfrak{M} 00'48	1°00'43
direct	-4701 Mar 25 j 12:09	26° \mathfrak{D} 54'12	9.21783 AU	direct	-4695 Jun 04 j 11:07	4° \mathfrak{M} 58'45	8.73137 AU
evening set	-4701 Jun 04 j 18:38	23° \mathfrak{D} 37'07		evening set	-4695 Aug 11 j 23:46	1° \mathfrak{M} 41'29	
conjunction	-4701 Sep 09 j 12:11	0° \mathfrak{M}		conjunction	-4695 Nov 19 j 14:37	8° \mathfrak{M} 56'12	
minimum elong	-4701 Sep 14 j 09:15	0° \mathfrak{M} 32'58		minimum elong	-4695 Dec 06 j 10:03	10° \mathfrak{M} 59'23	0°34'55
max. Earth dist.	-4701 Sep 30 j 18:04	2° \mathfrak{M} 26'07	2°24'38	max. Earth dist.	-4695 Dec 06 j 10:04	10° \mathfrak{M} 59'24	0°34'46
morning rise	-4701 Sep 30 j 18:05	2° \mathfrak{M} 26'07	2°24'45	morning rise	-4695 Dec 05 j 21:17	10° \mathfrak{M} 55'28	10.66129 AU
retrograde	-4701 Sep 30 j 04:55	2° \mathfrak{M} 22'18	11.20937 AU	retrograde	-4695 Dec 23 j 09:34	13° \mathfrak{M} 03'54	
opposition	-4701 Oct 17 j 01:31	4° \mathfrak{M} 18'57		opposition	-4694 Jan 08 j 22:39	15° \mathfrak{M}	
min. Earth dist.	-4700 Jan 25 j 01:36	11° \mathfrak{M} 09'52		min. Earth dist.	-4694 Apr 07 j 13:34	20° \mathfrak{M} 43'17	
direct	-4700 Apr 04 j 19:23	7° \mathfrak{M} 53'19	2°53'04	direct	-4694 Jun 17 j 00:31	17° \mathfrak{M} 18'54	0°23'38
evening set	-4700 Apr 05 j 07:04	7° \mathfrak{M} 51'11	9.19837 AU	evening set	-4694 Jun 17 j 10:07	17° \mathfrak{M} 17'04	8.58754 AU
conjunction	-4700 Jun 15 j 07:27	4° \mathfrak{M} 34'46		conjunction	-4694 Jul 20 j 09:03	15° \mathfrak{R} \mathfrak{M}	
minimum elong	-4700 Sep 24 j 08:36	11° \mathfrak{M} 30'03		minimum elong	-4694 Aug 24 j 08:00	13° \mathfrak{M} 58'41	
max. Earth dist.	-4700 Oct 10 j 17:03	13° \mathfrak{M} 23'34	2°18'19	max. Earth dist.	-4694 Sep 27 j 12:49	15° \mathfrak{M}	
morning rise	-4700 Oct 10 j 17:05	13° \mathfrak{M} 23'34	2°18'24	morning rise	-4694 Dec 02 j 02:07	21° \mathfrak{M} 21'45	
retrograde	-4700 Oct 10 j 03:11	13° \mathfrak{M} 19'31	11.17627 AU	retrograde	-4694 Dec 19 j 01:28	23° \mathfrak{M} 28'02	0°03'44
opposition	-4700 Oct 27 j 00:54	15° \mathfrak{M} 17'00		opposition	-4694 Dec 19 j 01:27	23° \mathfrak{M} 28'02	0°03'34
min. Earth dist.				behind sun begin	-4694 Dec 18 j 18:25	23° \mathfrak{M} 25'52	
direct				behind sun end	-4694 Dec 19 j 08:29	23° \mathfrak{M} 30'12	

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Attention, astronomical year style is used: The year -4694 in astronomical counting style is the year 4695 BCE in historical counting style.

max. Earth dist.	-4694 Dec 18 j 14:14	23° \mathbb{M} 24'33	10.51449 AU	conjunction	-4687 Mar 13 j 23:10	16° \approx 57'06	-2°21'59
morning rise	-4693 Jan 05 j 05:38	25° \mathbb{M} 35'51		minimum elong	-4687 Mar 13 j 23:09	16° \approx 57'06	2°22'09
desc. node	-4693 Jan 31 j 09:05	28° \mathbb{M} 37'53		max. Earth dist.	-4687 Mar 14 j 09:59	17° \approx 00'42	9.86419 AU
	-4693 Feb 13 j 18:44	0° \mathbb{A}		morning rise	-4687 Apr 01 j 00:40	19° \approx 20'31	
retrograde	-4693 Apr 21 j 06:37	3° \mathbb{A} 27'15		retrograde	-4687 Jul 17 j 11:02	27° \approx 58'39	
opposition	-4693 Jun 30 j 08:46	0° \mathbb{A} 01'09	-0°15'54	opposition	-4687 Sep 22 j 08:03	24° \approx 26'57	-2°59'52
	-4693 Jun 30 j 14:41	30° \mathbb{R} \mathbb{M}		min. Earth dist.	-4687 Sep 21 j 22:32	24° \approx 28'57	7.86036 AU
min. Earth dist.	-4693 Jun 30 j 16:42	29° \mathbb{M} 59'36	8.43880 AU	direct	-4687 Nov 27 j 04:15	20° \approx 57'42	
direct	-4693 Sep 06 j 01:58	26° \mathbb{M} 39'49		evening set	-4686 Mar 11 j 17:21	29° \approx 23'18	
	-4693 Nov 07 j 21:59	0° \mathbb{A}			-4686 Mar 16 j 09:24	0° \mathbb{H}	
evening set	-4693 Dec 15 j 01:35	4° \mathbb{A} 12'25					
				conjunction	-4686 Mar 29 j 18:14	1° \mathbb{H} 46'24	-2°22'22
conjunction	-4692 Jan 01 j 05:07	6° \mathbb{A} 21'58	-0°28'40	minimum elong	-4686 Mar 29 j 18:15	1° \mathbb{H} 46'24	2°22'29
minimum elong	-4692 Jan 01 j 05:06	6° \mathbb{A} 21'58	0°28'53	max. Earth dist.	-4686 Mar 30 j 08:10	1° \mathbb{H} 51'02	9.86200 AU
max. Earth dist.	-4693 Dec 31 j 20:45	6° \mathbb{A} 19'20	10.36557 AU	morning rise	-4686 Apr 16 j 21:06	4° \mathbb{H} 10'04	
morning rise	-4692 Jan 18 j 13:53	8° \mathbb{A} 33'13		retrograde	-4686 Aug 01 j 11:16	12° \mathbb{H} 43'59	
retrograde	-4692 May 04 j 10:27	16° \mathbb{A} 36'54		opposition	-4686 Oct 07 j 00:44	9° \mathbb{H} 12'49	-2°54'19
opposition	-4692 Jul 13 j 01:02	13° \mathbb{A} 09'09	-0°56'03	min. Earth dist.	-4686 Oct 06 j 13:21	9° \mathbb{H} 15'12	7.87778 AU
min. Earth dist.	-4692 Jul 13 j 06:35	13° \mathbb{A} 08'03	8.29159 AU	direct	-4686 Dec 12 j 04:21	5° \mathbb{H} 42'47	
direct	-4692 Sep 18 j 03:49	9° \mathbb{A} 46'32		evening set	-4685 Mar 27 j 10:07	14° \mathbb{H} 09'00	
evening set	-4692 Dec 27 j 14:33	17° \mathbb{A} 29'45					
				conjunction	-4685 Apr 14 j 12:55	16° \mathbb{H} 31'53	-2°13'27
conjunction	-4691 Jan 13 j 22:23	19° \mathbb{A} 42'36	-1°00'27	minimum elong	-4685 Apr 14 j 12:58	16° \mathbb{H} 31'54	2°13'31
minimum elong	-4691 Jan 13 j 22:20	19° \mathbb{A} 42'35	1°00'39	max. Earth dist.	-4685 Apr 15 j 05:09	16° \mathbb{H} 37'16	9.89897 AU
max. Earth dist.	-4691 Jan 13 j 17:41	19° \mathbb{A} 41'06	10.22148 AU	morning rise	-4685 May 02 j 16:17	18° \mathbb{H} 54'53	
morning rise	-4691 Jan 31 j 11:27	21° \mathbb{A} 57'13		retrograde	-4685 Aug 16 j 03:47	27° \mathbb{H} 20'44	
	-4691 May 03 j 10:40	0° \mathbb{B}		opposition	-4685 Oct 21 j 13:31	23° \mathbb{H} 50'32	-2°37'27
retrograde	-4691 May 18 j 23:57	0° \mathbb{B} 12'44		min. Earth dist.	-4685 Oct 21 j 00:47	23° \mathbb{H} 53'12	7.93282 AU
	-4691 Jun 03 j 14:32	30° \mathbb{R} \mathbb{A}		direct	-4685 Dec 27 j 04:34	20° \mathbb{H} 20'05	
opposition	-4691 Jul 27 j 01:01	26° \mathbb{A} 43'31	-1°34'31	evening set	-4684 Apr 10 j 23:03	28° \mathbb{H} 43'31	
min. Earth dist.	-4691 Jul 27 j 03:13	26° \mathbb{A} 43'05	8.15369 AU		-4684 Apr 20 j 19:15	0° \mathbb{Y}	
direct	-4691 Oct 01 j 15:02	23° \mathbb{A} 19'32					
	-4691 Dec 31 j 22:26	0° \mathbb{B}		conjunction	-4684 Apr 29 j 02:50	1° \mathbb{Y} 05'20	-1°56'05
evening set	-4690 Jan 10 j 17:23	1° \mathbb{B} 13'52		minimum elong	-4684 Apr 29 j 02:54	1° \mathbb{Y} 05'21	1°56'05
				max. Earth dist.	-4684 Apr 29 j 20:15	1° \mathbb{Y} 11'02	9.97205 AU
conjunction	-4690 Jan 28 j 05:18	3° \mathbb{B} 29'51	-1°29'43	morning rise	-4684 May 17 j 05:39	3° \mathbb{Y} 26'45	
minimum elong	-4690 Jan 28 j 05:15	3° \mathbb{B} 29'50	1°29'56	retrograde	-4684 Aug 29 j 11:04	11° \mathbb{Y} 41'37	
max. Earth dist.	-4690 Jan 28 j 04:29	3° \mathbb{B} 29'35	10.09090 AU	opposition	-4684 Nov 03 j 20:32	8° \mathbb{Y} 12'46	-2°10'56
morning rise	-4690 Feb 14 j 22:18	5° \mathbb{B} 47'33		min. Earth dist.	-4684 Nov 03 j 07:03	8° \mathbb{Y} 15'34	8.02122 AU
retrograde	-4690 Jun 02 j 21:23	14° \mathbb{B} 13'29		direct	-4683 Jan 10 j 01:11	4° \mathbb{Y} 42'18	
opposition	-4690 Aug 10 j 08:16	10° \mathbb{B} 43'02	-2°08'42	evening set	-4683 Apr 26 j 04:36	12° \mathbb{Y} 59'59	
min. Earth dist.	-4690 Aug 10 j 06:52	10° \mathbb{B} 43'20	8.03413 AU				
direct	-4690 Oct 15 j 12:14	7° \mathbb{B} 17'38		conjunction	-4683 May 14 j 08:06	15° \mathbb{Y} 19'55	-1°31'53
evening set	-4689 Jan 25 j 09:18	15° \mathbb{B} 22'39		minimum elong	-4683 May 14 j 08:10	15° \mathbb{Y} 19'56	1°31'50
				max. Earth dist.	-4683 May 15 j 01:43	15° \mathbb{Y} 25'37	10.07572 AU
conjunction	-4689 Feb 12 j 01:00	17° \mathbb{B} 41'24	-1°54'21	morning rise	-4683 Jun 01 j 09:09	17° \mathbb{Y} 39'01	
minimum elong	-4689 Feb 12 j 00:57	17° \mathbb{B} 41'23	1°54'35	retrograde	-4683 Sep 12 j 09:02	25° \mathbb{Y} 41'08	
max. Earth dist.	-4689 Feb 12 j 04:20	17° \mathbb{B} 42'30	9.98296 AU	opposition	-4683 Nov 17 j 20:15	22° \mathbb{Y} 13'53	-1°37'11
morning rise	-4689 Mar 01 j 21:26	20° \mathbb{B} 01'43		min. Earth dist.	-4683 Nov 17 j 06:53	22° \mathbb{Y} 16'38	8.13680 AU
retrograde	-4689 Jun 18 j 00:26	28° \mathbb{B} 35'30		direct	-4682 Jan 24 j 16:11	18° \mathbb{Y} 43'48	
opposition	-4689 Aug 24 j 21:21	25° \mathbb{B} 04'11	-2°35'51	evening set	-4682 May 11 j 00:09	26° \mathbb{Y} 53'33	
min. Earth dist.	-4689 Aug 24 j 16:36	25° \mathbb{B} 05'10	7.94135 AU				
direct	-4689 Oct 29 j 17:56	21° \mathbb{B} 37'22		conjunction	-4682 May 29 j 02:01	29° \mathbb{Y} 10'55	-1°02'52
evening set	-4688 Feb 09 j 12:50	29° \mathbb{B} 51'46		minimum elong	-4682 May 29 j 02:04	29° \mathbb{Y} 10'56	1°02'46
	-4688 Feb 10 j 14:08	0° \approx		max. Earth dist.	-4682 May 29 j 18:49	29° \mathbb{Y} 16'16	10.20294 AU
					-4682 Jun 04 j 12:03	0° \mathbb{B}	
conjunction	-4688 Feb 27 j 08:01	2° \approx 12'43	-2°12'20	morning rise	-4682 Jun 16 j 00:13	1° \mathbb{B} 27'06	
minimum elong	-4688 Feb 27 j 07:59	2° \approx 12'42	2°12'32	retrograde	-4682 Sep 25 j 20:30	9° \mathbb{B} 15'49	
max. Earth dist.	-4688 Feb 27 j 15:19	2° \approx 15'08	9.90549 AU	opposition	-4682 Dec 01 j 11:50	5° \mathbb{B} 50'23	-0°58'56
morning rise	-4688 Mar 16 j 07:20	4° \approx 34'59		min. Earth dist.	-4682 Nov 30 j 23:53	5° \mathbb{B} 52'49	8.27222 AU
retrograde	-4688 Jul 02 j 06:17	13° \approx 13'02		direct	-4681 Feb 07 j 23:56	2° \mathbb{B} 21'00	
opposition	-4688 Sep 07 j 14:01	9° \approx 41'17	-2°53'29	evening set	-4681 May 25 j 08:03	10° \mathbb{B} 21'26	
min. Earth dist.	-4688 Sep 07 j 06:35	9° \approx 42'50	7.88203 AU				
direct	-4688 Nov 12 j 07:55	6° \approx 13'07		conjunction	-4681 Jun 12 j 07:01	12° \mathbb{B} 35'46	-0°31'10
evening set	-4687 Feb 24 j 00:52	14° \approx 34'40		minimum elong	-4681 Jun 12 j 07:03	12° \mathbb{B} 35'46	0°31'01
	-4687 Feb 27 j 06:13	15° \approx		max. Earth dist.	-4681 Jun 12 j 21:30	12° \mathbb{B} 40'18	10.34577 AU
				morning rise	-4681 Jun 30 j 01:26	14° \mathbb{B} 48'40	

Attention, astronomical year style is used: The year -4681 in astronomical counting style is the year 4682 BCE in historical counting style.

	-4681 Jul 01 j 14:26	15°♄		morning rise	-4675 Sep 09 j 15:20	26°♄45'03	
retrograde	-4681 Oct 08 j 20:16	22°♄24'17			-4675 Oct 10 j 04:32	0°♄	
opposition	-4681 Dec 14 j 19:07	19°♄00'47	-0°18'49	retrograde	-4675 Dec 17 j 04:07	3°♄33'49	
min. Earth dist.	-4681 Dec 14 j 09:20	19°♄02'44	8.41945 AU	opposition	-4674 Feb 24 j 18:07	0°♄18'17	2°41'08
direct	-4680 Feb 22 j 00:27	15°♄32'23		min. Earth dist.	-4674 Feb 24 j 23:33	0°♄17'17	9.15771 AU
evening set	-4680 Jun 07 j 03:50	23°♄22'54			-4674 Feb 28 j 21:31	30°♄	
asc. node	-4680 Jun 09 j 23:39	23°♄43'28		direct	-4674 May 07 j 13:33	26°♄57'45	
					-4674 Jul 10 j 16:44	0°♄	
conjunction	-4680 Jun 24 j 22:39	25°♄33'53	0°01'19	evening set	-4674 Aug 18 j 16:36	4°♄00'46	
minimum elong	-4680 Jun 24 j 22:41	25°♄33'53	0°01'30				
behind sun begin	-4680 Jun 24 j 15:27	25°♄31'41		conjunction	-4674 Sep 04 j 06:47	5°♄55'30	2°17'38
behind sun end	-4680 Jun 25 j 05:55	25°♄36'06		minimum elong	-4674 Sep 04 j 06:45	5°♄55'29	2°17'49
max. Earth dist.	-4680 Jun 25 j 09:44	25°♄37'17	10.49609 AU	max. Earth dist.	-4674 Sep 03 j 22:45	5°♄53'10	11.18479 AU
morning rise	-4680 Jul 12 j 12:33	27°♄43'20		morning rise	-4674 Sep 20 j 17:38	7°♄49'18	
	-4680 Aug 01 j 01:37	0°♄		retrograde	-4674 Dec 28 j 13:04	14°♄36'29	
retrograde	-4680 Oct 20 j 09:47	5°♄06'55		opposition	-4673 Mar 08 j 11:59	11°♄21'13	2°52'20
opposition	-4680 Dec 26 j 18:15	1°♄45'17	0°20'49	min. Earth dist.	-4673 Mar 08 j 19:23	11°♄19'51	9.20854 AU
min. Earth dist.	-4680 Dec 26 j 10:47	1°♄46'45	8.57063 AU	direct	-4673 May 19 j 08:18	8°♄01'39	
	-4679 Jan 19 j 05:05	30°♄		evening set	-4673 Aug 29 j 20:53	15°♄00'40	
direct	-4679 Mar 06 j 15:48	28°♄18'07			-4673 Aug 29 j 18:33	15°♄	
	-4679 Apr 21 j 13:07	0°♄					
evening set	-4679 Jun 20 j 11:17	5°♄58'43		conjunction	-4673 Sep 15 j 08:13	16°♄54'17	2°24'17
				minimum elong	-4673 Sep 15 j 08:13	16°♄54'17	2°24'27
conjunction	-4679 Jul 08 j 01:19	8°♄06'19	0°32'42	max. Earth dist.	-4673 Sep 14 j 22:12	16°♄51'23	11.22095 AU
minimum elong	-4679 Jul 08 j 01:18	8°♄06'18	0°32'54	morning rise	-4673 Oct 01 j 16:47	18°♄47'13	
max. Earth dist.	-4679 Jul 08 j 08:43	8°♄08'34	10.64631 AU	retrograde	-4672 Jan 08 j 22:07	25°♄34'35	
morning rise	-4679 Jul 25 j 10:12	10°♄12'18		opposition	-4672 Mar 19 j 05:20	22°♄19'14	2°57'12
retrograde	-4679 Nov 01 j 15:19	17°♄25'21		min. Earth dist.	-4672 Mar 19 j 15:11	22°♄17'26	9.23022 AU
opposition	-4678 Jan 08 j 09:57	14°♄05'26	0°58'07	direct	-4672 May 29 j 23:41	19°♄00'25	
min. Earth dist.	-4678 Jan 08 j 04:17	14°♄06'32	8.71842 AU	evening set	-4672 Sep 08 j 21:56	25°♄56'50	
direct	-4678 Mar 19 j 21:32	10°♄39'40					
evening set	-4678 Jul 03 j 06:52	18°♄10'47		conjunction	-4672 Sep 25 j 07:15	27°♄49'57	2°25'39
				minimum elong	-4672 Sep 25 j 07:15	27°♄49'57	2°25'46
conjunction	-4678 Jul 20 j 15:48	20°♄15'06	1°01'45	max. Earth dist.	-4672 Sep 24 j 18:16	27°♄46'12	11.22746 AU
minimum elong	-4678 Jul 20 j 15:46	20°♄15'05	1°01'59	morning rise	-4672 Oct 11 j 14:46	29°♄42'37	
max. Earth dist.	-4678 Jul 20 j 20:21	20°♄16'28	10.78948 AU		-4672 Oct 14 j 04:16	0°♄	
morning rise	-4678 Aug 06 j 19:28	22°♄17'50		retrograde	-4671 Jan 19 j 09:12	6°♄31'59	
retrograde	-4678 Nov 13 j 13:27	29°♄22'05		opposition	-4671 Mar 30 j 23:20	3°♄16'13	2°55'39
opposition	-4677 Jan 20 j 19:01	26°♄03'42	1°31'40	min. Earth dist.	-4671 Mar 31 j 11:54	3°♄13'56	9.22168 AU
min. Earth dist.	-4677 Jan 20 j 15:37	26°♄04'21	8.85613 AU		-4671 Jun 03 j 21:37	30°♄	
direct	-4677 Apr 01 j 18:43	22°♄39'21		direct	-4671 Jun 10 j 12:44	29°♄57'55	
evening set	-4677 Jul 15 j 16:00	0°♄01'49			-4671 Jun 17 j 03:15	0°♄	
	-4677 Jul 15 j 09:43	0°♄		evening set	-4671 Sep 19 j 21:42	6°♄53'14	
conjunction	-4677 Aug 01 j 19:43	2°♄03'06	1°27'24	conjunction	-4671 Oct 06 j 06:03	8°♄46'27	2°21'41
minimum elong	-4677 Aug 01 j 19:40	2°♄03'05	1°27'39	minimum elong	-4671 Oct 06 j 06:04	8°♄46'28	2°21'47
max. Earth dist.	-4677 Aug 01 j 21:37	2°♄03'39	10.91940 AU	max. Earth dist.	-4671 Oct 05 j 14:33	8°♄41'57	11.20406 AU
morning rise	-4677 Aug 18 j 18:11	4°♄02'53		morning rise	-4671 Oct 22 j 13:41	10°♄39'31	
retrograde	-4677 Nov 25 j 07:33	11°♄00'08		retrograde	-4670 Jan 30 j 21:55	17°♄32'35	
opposition	-4676 Feb 01 j 22:37	7°♄43'02	2°00'27	opposition	-4670 Apr 11 j 18:50	14°♄16'04	2°47'44
min. Earth dist.	-4676 Feb 01 j 22:19	7°♄43'06	8.97814 AU	min. Earth dist.	-4670 Apr 12 j 08:56	14°♄13'30	9.18339 AU
direct	-4676 Apr 13 j 06:59	4°♄20'05		direct	-4670 Jun 22 j 01:22	10°♄58'01	
evening set	-4676 Jul 26 j 15:49	11°♄34'54		evening set	-4670 Sep 30 j 21:48	17°♄53'44	
conjunction	-4676 Aug 12 j 14:24	13°♄33'31	1°48'55	conjunction	-4670 Oct 17 j 06:24	19°♄47'40	2°12'28
minimum elong	-4676 Aug 12 j 14:21	13°♄33'30	1°49'10	minimum elong	-4670 Oct 17 j 06:27	19°♄47'40	2°12'32
max. Earth dist.	-4676 Aug 12 j 12:49	13°♄33'03	11.03111 AU	max. Earth dist.	-4670 Oct 16 j 14:17	19°♄42'57	11.15187 AU
morning rise	-4676 Aug 29 j 08:13	15°♄30'48		morning rise	-4670 Nov 02 j 15:03	21°♄41'41	
retrograde	-4676 Dec 05 j 18:51	22°♄22'52		retrograde	-4669 Feb 11 j 18:15	28°♄40'08	
opposition	-4675 Feb 12 j 22:02	19°♄06'45	2°23'45	opposition	-4669 Apr 23 j 17:26	25°♄22'32	2°33'32
min. Earth dist.	-4675 Feb 13 j 01:06	19°♄06'10	9.07991 AU	min. Earth dist.	-4669 Apr 24 j 07:38	25°♄19'56	9.11703 AU
direct	-4675 Apr 25 j 12:10	15°♄45'05		direct	-4669 Jul 03 j 15:56	22°♄04'31	
evening set	-4675 Aug 07 j 07:25	22°♄53'22		evening set	-4669 Oct 12 j 00:09	29°♄02'00	
					-4669 Oct 20 j 07:28	0°♄	
conjunction	-4675 Aug 24 j 01:21	24°♄49'46	2°05'46				
minimum elong	-4675 Aug 24 j 01:18	24°♄49'46	2°06'00	conjunction	-4669 Oct 28 j 09:54	0°♄57'13	1°58'09
max. Earth dist.	-4675 Aug 23 j 19:50	24°♄48'10	11.12065 AU	minimum elong	-4669 Oct 28 j 09:57	0°♄57'14	1°58'10

Planetary Phenomena of Saturn from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 20

Attention, astronomical year style is used: The year -4669 in astronomical counting style is the year 4670 BCE in historical counting style.

max. Earth dist.	-4669 Oct 27 j 17:38	0° $\underline{\mathbf{0}}^{\mathbf{52}}\mathbf{25}$	11.07295 AU	conjunction	-4662 Jan 08 j 06:06	14° $\mathbf{\text{X}}^{\mathbf{02}}\mathbf{39}$	-0°46'37
morning rise	-4669 Nov 13 j 20:31	2° $\underline{\mathbf{0}}^{\mathbf{52}}\mathbf{48}$		minimum elong	-4662 Jan 08 j 06:04	14° $\mathbf{\text{X}}^{\mathbf{02}}\mathbf{39}$	0°46'50
retrograde	-4668 Feb 23 j 19:48	9° $\underline{\mathbf{0}}^{\mathbf{58}}\mathbf{11}$		max. Earth dist.	-4662 Jan 07 j 23:13	14° $\mathbf{\text{X}}^{\mathbf{00}}\mathbf{27}$	10.26229 AU
opposition	-4668 May 04 j 20:17	6° $\underline{\mathbf{0}}^{\mathbf{39}}\mathbf{13}$	2°13'15	morning rise	-4662 Jan 25 j 17:25	16° $\mathbf{\text{X}}^{\mathbf{16}}\mathbf{04}$	
min. Earth dist.	-4668 May 05 j 10:34	6° $\underline{\mathbf{0}}^{\mathbf{36}}\mathbf{35}$	9.02518 AU	retrograde	-4662 May 12 j 23:45	24° $\mathbf{\text{X}}^{\mathbf{27}}\mathbf{19}$	
direct	-4668 Jul 14 j 06:09	3° $\underline{\mathbf{0}}^{\mathbf{20}}\mathbf{58}$		opposition	-4662 Jul 21 j 06:36	20° $\mathbf{\text{X}}^{\mathbf{58}}\mathbf{02}$	-1°17'59
evening set	-4668 Oct 22 j 06:47	10° $\underline{\mathbf{0}}^{\mathbf{21}}\mathbf{44}$		min. Earth dist.	-4662 Jul 21 j 09:53	20° $\mathbf{\text{X}}^{\mathbf{57}}\mathbf{22}$	8.19192 AU
				direct	-4662 Sep 26 j 01:39	17° $\mathbf{\text{X}}^{\mathbf{34}}\mathbf{00}$	
conjunction	-4668 Nov 07 j 18:26	12° $\underline{\mathbf{0}}^{\mathbf{18}}\mathbf{44}$	1°39'00	evening set	-4661 Jan 04 j 21:09	25° $\mathbf{\text{X}}^{\mathbf{24}}\mathbf{14}$	
minimum elong	-4668 Nov 07 j 18:29	12° $\underline{\mathbf{0}}^{\mathbf{18}}\mathbf{45}$	1°38'58				
max. Earth dist.	-4668 Nov 07 j 01:31	12° $\underline{\mathbf{0}}^{\mathbf{13}}\mathbf{42}$	10.97031 AU	conjunction	-4661 Jan 22 j 07:10	27° $\mathbf{\text{X}}^{\mathbf{39}}\mathbf{06}$	-1°17'17
morning rise	-4668 Nov 24 j 08:06	14° $\underline{\mathbf{0}}^{\mathbf{16}}\mathbf{25}$		minimum elong	-4661 Jan 22 j 07:07	27° $\mathbf{\text{X}}^{\mathbf{39}}\mathbf{05}$	1°17'30
retrograde	-4667 Mar 07 j 04:24	21° $\underline{\mathbf{0}}^{\mathbf{30}}\mathbf{14}$		max. Earth dist.	-4661 Jan 22 j 04:10	27° $\mathbf{\text{X}}^{\mathbf{38}}\mathbf{07}$	10.12660 AU
opposition	-4667 May 17 j 04:17	18° $\underline{\mathbf{0}}^{\mathbf{09}}\mathbf{41}$	1°47'14	morning rise	-4661 Feb 08 j 22:41	29° $\mathbf{\text{X}}^{\mathbf{55}}\mathbf{44}$	
min. Earth dist.	-4667 May 17 j 18:42	18° $\underline{\mathbf{0}}^{\mathbf{07}}\mathbf{00}$	8.91136 AU		-4661 Feb 09 j 12:08	0° $\mathbf{\text{Z}}$	
direct	-4667 Jul 26 j 01:16	14° $\underline{\mathbf{0}}^{\mathbf{50}}\mathbf{54}$		retrograde	-4661 May 27 j 17:33	8° $\mathbf{\text{Z}}^{\mathbf{18}}\mathbf{05}$	
evening set	-4667 Nov 02 j 19:25	21° $\underline{\mathbf{0}}^{\mathbf{56}}\mathbf{29}$		opposition	-4661 Aug 04 j 11:19	4° $\mathbf{\text{Z}}^{\mathbf{47}}\mathbf{31}$	-1°54'27
				min. Earth dist.	-4661 Aug 04 j 11:32	4° $\mathbf{\text{Z}}^{\mathbf{47}}\mathbf{29}$	8.06599 AU
conjunction	-4667 Nov 19 j 09:49	23° $\underline{\mathbf{0}}^{\mathbf{55}}\mathbf{48}$	1°15'26	direct	-4661 Oct 09 j 19:35	1° $\mathbf{\text{Z}}^{\mathbf{22}}\mathbf{09}$	
minimum elong	-4667 Nov 19 j 09:52	23° $\underline{\mathbf{0}}^{\mathbf{55}}\mathbf{49}$	1°15'20	evening set	-4660 Jan 19 j 07:34	9° $\mathbf{\text{Z}}^{\mathbf{23}}\mathbf{15}$	
max. Earth dist.	-4667 Nov 18 j 17:12	23° $\underline{\mathbf{0}}^{\mathbf{50}}\mathbf{47}$	10.84768 AU				
morning rise	-4667 Dec 06 j 03:16	25° $\underline{\mathbf{0}}^{\mathbf{56}}\mathbf{04}$		conjunction	-4660 Feb 05 j 21:37	11° $\mathbf{\text{Z}}^{\mathbf{41}}\mathbf{03}$	-1°44'15
	-4666 Jan 12 j 20:19	0° $\mathbf{\text{M}}$		minimum elong	-4660 Feb 05 j 21:34	11° $\mathbf{\text{Z}}^{\mathbf{41}}\mathbf{02}$	1°44'28
retrograde	-4666 Mar 19 j 21:14	3° $\mathbf{\text{M}}^{\mathbf{19}}\mathbf{42}$		max. Earth dist.	-4660 Feb 05 j 23:21	11° $\mathbf{\text{Z}}^{\mathbf{41}}\mathbf{37}$	10.01102 AU
opposition	-4666 May 29 j 18:26	29° $\underline{\mathbf{0}}^{\mathbf{57}}\mathbf{24}$	1°16'02	morning rise	-4660 Feb 23 j 16:49	14° $\mathbf{\text{Z}}^{\mathbf{00}}\mathbf{30}$	
	-4666 May 29 j 04:38	30° $\mathbf{\text{R}}^{\mathbf{0}}\mathbf{\underline{\mathbf{0}}}$		retrograde	-4660 Jun 10 j 18:14	22° $\mathbf{\text{Z}}^{\mathbf{31}}\mathbf{52}$	
min. Earth dist.	-4666 May 30 j 08:10	29° $\underline{\mathbf{0}}^{\mathbf{54}}\mathbf{49}$	8.77972 AU	opposition	-4660 Aug 17 j 22:23	19° $\mathbf{\text{Z}}^{\mathbf{00}}\mathbf{24}$	-2°25'02
direct	-4666 Aug 07 j 01:15	26° $\underline{\mathbf{0}}^{\mathbf{37}}\mathbf{54}$		min. Earth dist.	-4660 Aug 17 j 19:03	19° $\mathbf{\text{Z}}^{\mathbf{01}}\mathbf{05}$	7.96423 AU
	-4666 Oct 10 j 18:41	0° $\mathbf{\text{M}}$		direct	-4660 Oct 22 j 22:07	15° $\mathbf{\text{Z}}^{\mathbf{33}}\mathbf{44}$	
evening set	-4666 Nov 14 j 16:01	3° $\mathbf{\text{M}}^{\mathbf{49}}\mathbf{50}$		evening set	-4659 Feb 02 j 06:34	23° $\mathbf{\text{Z}}^{\mathbf{44}}\mathbf{49}$	
conjunction	-4666 Dec 01 j 09:53	5° $\mathbf{\text{M}}^{\mathbf{51}}\mathbf{51}$	0°48'03	conjunction	-4659 Feb 20 j 00:21	26° $\mathbf{\text{Z}}^{\mathbf{05}}\mathbf{03}$	-2°05'23
minimum elong	-4666 Dec 01 j 09:55	5° $\mathbf{\text{M}}^{\mathbf{51}}\mathbf{52}$	0°47'55	minimum elong	-4659 Feb 20 j 00:19	26° $\mathbf{\text{Z}}^{\mathbf{05}}\mathbf{02}$	2°05'36
max. Earth dist.	-4666 Nov 30 j 19:27	5° $\mathbf{\text{M}}^{\mathbf{47}}\mathbf{26}$	10.70951 AU	max. Earth dist.	-4659 Feb 20 j 06:58	26° $\mathbf{\text{Z}}^{\mathbf{07}}\mathbf{15}$	9.92320 AU
morning rise	-4666 Dec 18 j 07:27	7° $\mathbf{\text{M}}^{\mathbf{55}}\mathbf{06}$		morning rise	-4659 Mar 09 j 22:34	28° $\mathbf{\text{Z}}^{\mathbf{26}}\mathbf{44}$	
	-4665 Mar 08 j 11:09	15° $\mathbf{\text{M}}$			-4659 Mar 22 j 03:10	0° $\mathbf{\text{X}}$	
retrograde	-4665 Apr 01 j 23:38	15° $\mathbf{\text{M}}^{\mathbf{29}}\mathbf{49}$		retrograde	-4659 Jun 25 j 23:39	7° $\mathbf{\text{X}}^{\mathbf{03}}\mathbf{57}$	
	-4665 Apr 26 j 19:09	15° $\mathbf{\text{R}}^{\mathbf{0}}\mathbf{\text{M}}$		opposition	-4659 Sep 01 j 13:56	3° $\mathbf{\text{X}}^{\mathbf{32}}\mathbf{01}$	-2°47'06
opposition	-4665 Jun 11 j 15:34	12° $\mathbf{\text{M}}^{\mathbf{05}}\mathbf{39}$	0°40'29	min. Earth dist.	-4659 Sep 01 j 07:01	3° $\mathbf{\text{X}}^{\mathbf{33}}\mathbf{28}$	7.89354 AU
min. Earth dist.	-4665 Jun 12 j 03:04	12° $\mathbf{\text{M}}^{\mathbf{03}}\mathbf{27}$	8.63541 AU	direct	-4659 Nov 06 j 08:59	0° $\mathbf{\text{X}}^{\mathbf{04}}\mathbf{11}$	
direct	-4665 Aug 19 j 07:54	8° $\mathbf{\text{M}}^{\mathbf{45}}\mathbf{14}$		evening set	-4658 Feb 17 j 15:29	8° $\mathbf{\text{X}}^{\mathbf{23}}\mathbf{25}$	
	-4665 Nov 17 j 21:20	15° $\mathbf{\text{M}}$					
evening set	-4665 Nov 26 j 22:36	16° $\mathbf{\text{M}}^{\mathbf{05}}\mathbf{00}$		conjunction	-4658 Mar 07 j 12:37	10° $\mathbf{\text{X}}^{\mathbf{45}}\mathbf{26}$	-2°18'50
				minimum elong	-4658 Mar 07 j 12:36	10° $\mathbf{\text{X}}^{\mathbf{45}}\mathbf{26}$	2°19'01
conjunction	-4665 Dec 13 j 20:22	18° $\mathbf{\text{M}}^{\mathbf{10}}\mathbf{06}$	0°17'46	max. Earth dist.	-4658 Mar 07 j 23:58	10° $\mathbf{\text{X}}^{\mathbf{49}}\mathbf{13}$	9.86954 AU
minimum elong	-4665 Dec 13 j 20:23	18° $\mathbf{\text{M}}^{\mathbf{10}}\mathbf{06}$	0°17'36	morning rise	-4658 Mar 25 j 13:11	13° $\mathbf{\text{X}}^{\mathbf{08}}\mathbf{35}$	
max. Earth dist.	-4665 Dec 13 j 08:27	18° $\mathbf{\text{M}}^{\mathbf{06}}\mathbf{24}$	10.56141 AU		-4658 Apr 09 j 02:36	15° $\mathbf{\text{X}}$	
morning rise	-4665 Dec 30 j 22:23	20° $\mathbf{\text{M}}^{\mathbf{16}}\mathbf{36}$		retrograde	-4658 Jul 11 j 05:57	21° $\mathbf{\text{X}}^{\mathbf{47}}\mathbf{44}$	
retrograde	-4664 Apr 14 j 13:58	28° $\mathbf{\text{M}}^{\mathbf{03}}\mathbf{18}$		opposition	-4658 Sep 16 j 08:01	18° $\mathbf{\text{X}}^{\mathbf{15}}\mathbf{49}$	-2°58'30
opposition	-4664 Jun 23 j 20:29	24° $\mathbf{\text{M}}^{\mathbf{37}}\mathbf{18}$	0°01'48	min. Earth dist.	-4658 Sep 15 j 21:45	18° $\mathbf{\text{X}}^{\mathbf{17}}\mathbf{58}$	7.85916 AU
min. Earth dist.	-4664 Jun 24 j 05:10	24° $\mathbf{\text{M}}^{\mathbf{35}}\mathbf{37}$	8.48458 AU		-4658 Nov 06 j 03:12	15° $\mathbf{\text{R}}^{\mathbf{0}}\mathbf{\text{X}}$	
desc. node	-4664 Jul 10 j 22:27	23° $\mathbf{\text{M}}^{\mathbf{19}}\mathbf{49}$		direct	-4658 Nov 21 j 02:47	14° $\mathbf{\text{X}}^{\mathbf{47}}\mathbf{01}$	
direct	-4664 Aug 30 j 21:22	21° $\mathbf{\text{M}}^{\mathbf{15}}\mathbf{49}$			-4658 Dec 06 j 01:33	15° $\mathbf{\text{X}}$	
evening set	-4664 Dec 08 j 16:51	28° $\mathbf{\text{M}}^{\mathbf{44}}\mathbf{46}$		evening set	-4657 Mar 05 j 06:41	23° $\mathbf{\text{X}}^{\mathbf{11}}\mathbf{37}$	
	-4664 Dec 18 j 18:05	0° $\mathbf{\text{X}}$					
				conjunction	-4657 Mar 23 j 06:42	25° $\mathbf{\text{X}}^{\mathbf{34}}\mathbf{38}$	-2°23'18
conjunction	-4664 Dec 25 j 18:41	0° $\mathbf{\text{X}}^{\mathbf{53}}\mathbf{07}$	-0°14'21	minimum elong	-4657 Mar 23 j 06:42	25° $\mathbf{\text{X}}^{\mathbf{34}}\mathbf{39}$	2°23'27
minimum elong	-4664 Dec 25 j 18:40	0° $\mathbf{\text{X}}^{\mathbf{53}}\mathbf{07}$	0°14'33	max. Earth dist.	-4657 Mar 23 j 22:01	25° $\mathbf{\text{X}}^{\mathbf{39}}\mathbf{45}$	9.85431 AU
behind sun begin	-4664 Dec 25 j 15:30	0° $\mathbf{\text{X}}^{\mathbf{52}}\mathbf{08}$		morning rise	-4657 Apr 10 j 08:57	27° $\mathbf{\text{X}}^{\mathbf{58}}\mathbf{24}$	
behind sun end	-4664 Dec 25 j 21:50	0° $\mathbf{\text{X}}^{\mathbf{54}}\mathbf{06}$			-4657 Apr 26 j 07:17	0° $\mathbf{\text{H}}$	
max. Earth dist.	-4664 Dec 25 j 09:11	0° $\mathbf{\text{X}}^{\mathbf{50}}\mathbf{08}$	10.40991 AU	retrograde	-4657 Jul 26 j 09:30	6° $\mathbf{\text{H}}^{\mathbf{35}}\mathbf{09}$	
morning rise	-4663 Jan 12 j 01:25	3° $\mathbf{\text{X}}^{\mathbf{03}}\mathbf{05}$		opposition	-4657 Oct 01 j 01:59	3° $\mathbf{\text{H}}^{\mathbf{03}}\mathbf{45}$	-2°58'06
retrograde	-4663 Apr 28 j 14:31	11° $\mathbf{\text{X}}^{\mathbf{02}}\mathbf{11}$		min. Earth dist.	-4657 Sep 30 j 13:23	3° $\mathbf{\text{H}}^{\mathbf{06}}\mathbf{24}$	7.86381 AU
opposition	-4663 Jul 07 j 09:33	7° $\mathbf{\text{X}}^{\mathbf{34}}\mathbf{26}$	-0°38'24		-4657 Nov 14 j 19:39	30° $\mathbf{\text{R}}^{\mathbf{0}}\mathbf{\text{X}}$	
min. Earth dist.	-4663 Jul 07 j 15:27	7° $\mathbf{\text{X}}^{\mathbf{33}}\mathbf{16}$	8.33417 AU	direct	-4657 Dec 06 j 01:05	29° $\mathbf{\text{X}}^{\mathbf{34}}\mathbf{15}$	
direct	-4663 Sep 12 j 18:02	4° $\mathbf{\text{X}}^{\mathbf{11}}\mathbf{44}$			-4657 Dec 27 j 05:57	0° $\mathbf{\text{H}}$	
evening set	-4663 Dec 22 j 00:11	11° $\mathbf{\text{X}}^{\mathbf{51}}\mathbf{00}$		evening set	-4656 Mar 20 j 00:26	8° $\mathbf{\text{H}}^{\mathbf{00}}\mathbf{54}$	

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Attention, astronomical year style is used: The year -4656 in astronomical counting style is the year 4657 BCE in historical counting style.

conjunction	-4656 Apr 07 j 02:38	10° X 24'03	-2°18'20	opposition	-4651 Dec 21 j 15:20	26° B 35'28	0°04'01
minimum elong	-4656 Apr 07 j 02:41	10° X 24'04	2°18'25	min. Earth dist.	-4651 Dec 21 j 06:38	26° B 37'11	8.51595 AU
max. Earth dist.	-4656 Apr 07 j 20:30	10° X 29'59	9.87880 AU	direct	-4650 Mar 01 j 05:44	23° B 08'15	
morning rise	-4656 Apr 25 j 05:47	12° X 47'29			-4650 Jun 07 j 18:33	0° II	
retrograde	-4656 Aug 09 j 06:58	21° X 17'38		evening set	-4650 Jun 15 j 05:11	0° II 52'56	
opposition	-4656 Oct 14 j 17:07	17° X 47'13	-2°45'56				
min. Earth dist.	-4656 Oct 14 j 03:24	17° X 50'06	7.90726 AU	conjunction	-4650 Jul 02 j 21:32	3° II 01'57	0°19'28
direct	-4656 Dec 20 j 01:02	14° X 17'19		minimum elong	-4650 Jul 02 j 21:31	3° II 01'57	0°19'39
evening set	-4655 Apr 04 j 16:08	22° X 42'31		max. Earth dist.	-4650 Jul 03 j 06:31	3° II 04'41	10.59050 AU
				morning rise	-4650 Jul 20 j 08:31	5° II 09'21	
conjunction	-4655 Apr 22 j 19:36	25° X 04'54	-2°04'27	retrograde	-4650 Oct 27 j 21:57	12° II 26'46	
minimum elong	-4655 Apr 22 j 19:40	25° X 04'55	2°04'28	opposition	-4649 Jan 03 j 10:17	9° II 06'30	0°42'32
max. Earth dist.	-4655 Apr 23 j 14:36	25° X 11'09	9.94121 AU	min. Earth dist.	-4649 Jan 03 j 04:39	9° II 07'36	8.66178 AU
morning rise	-4655 May 10 j 22:41	27° X 27'05		direct	-4649 Mar 14 j 14:32	5° II 40'27	
	-4655 May 31 j 10:43	0° Y		evening set	-4649 Jun 28 j 06:19	13° II 15'38	
retrograde	-4655 Aug 23 j 19:31	5° Y 47'11					
opposition	-4655 Oct 29 j 03:23	2° Y 18'09	-2°23'16	conjunction	-4649 Jul 15 j 17:35	15° II 21'21	0°49'41
min. Earth dist.	-4655 Oct 28 j 13:25	2° Y 21'03	7.98630 AU	minimum elong	-4649 Jul 15 j 17:33	15° II 21'20	0°49'54
	-4655 Nov 28 j 10:09	30° R X		max. Earth dist.	-4649 Jul 15 j 22:45	15° II 22'54	10.73277 AU
direct	-4654 Jan 03 j 23:33	28° X 48'10		morning rise	-4649 Aug 01 j 23:25	17° II 25'27	
	-4654 Feb 09 j 10:00	0° Y		retrograde	-4649 Nov 08 j 22:31	24° II 33'23	
evening set	-4654 Apr 20 j 01:35	7° Y 08'37		opposition	-4648 Jan 15 j 22:28	21° II 14'36	1°17'52
				min. Earth dist.	-4648 Jan 15 j 20:01	21° II 15'04	8.79967 AU
conjunction	-4654 May 08 j 05:12	9° Y 29'23	-1°42'57	direct	-4648 Mar 26 j 16:10	17° II 49'45	
minimum elong	-4654 May 08 j 05:16	9° Y 29'24	1°42'54	evening set	-4648 Jul 09 j 20:19	25° II 16'03	
max. Earth dist.	-4654 May 08 j 23:58	9° Y 35'29	10.03675 AU				
morning rise	-4654 May 26 j 07:08	11° Y 49'30		conjunction	-4648 Jul 27 j 02:11	27° II 18'38	1°16'55
retrograde	-4654 Sep 06 j 21:53	19° Y 57'14		minimum elong	-4648 Jul 27 j 02:08	27° II 18'37	1°17'09
opposition	-4654 Nov 12 j 06:44	16° Y 29'49	-1°52'17	max. Earth dist.	-4648 Jul 27 j 03:05	27° II 18'54	10.86397 AU
min. Earth dist.	-4654 Nov 11 j 17:17	16° Y 32'35	8.09503 AU	morning rise	-4648 Aug 13 j 02:57	29° II 19'42	
direct	-4653 Jan 18 j 18:23	13° Y 00'06			-4648 Aug 18 j 22:17	0° B	
evening set	-4653 May 05 j 01:59	21° Y 13'14		retrograde	-4648 Nov 19 j 17:24	6° B 19'57	
				opposition	-4647 Jan 27 j 04:39	3° B 02'21	1°48'49
conjunction	-4653 May 23 j 04:32	23° Y 31'39	-1°15'44	min. Earth dist.	-4647 Jan 27 j 04:36	3° B 02'22	8.92397 AU
minimum elong	-4653 May 23 j 04:35	23° Y 31'41	1°15'39		-4647 Mar 18 j 06:43	30° R II	
max. Earth dist.	-4653 May 23 j 21:34	23° Y 37'07	10.15818 AU	direct	-4647 Apr 08 j 09:59	29° II 38'42	
morning rise	-4653 Jun 10 j 04:13	25° Y 49'04			-4647 Apr 29 j 10:07	0° B	
	-4653 Jul 16 j 07:39	0° B		evening set	-4647 Jul 22 j 00:12	6° B 56'58	
retrograde	-4653 Sep 20 j 12:47	3° B 43'17					
opposition	-4653 Nov 26 j 01:50	0° B 17'38	-1°15'39	conjunction	-4647 Aug 08 j 00:56	8° B 56'46	1°40'18
min. Earth dist.	-4653 Nov 25 j 13:26	0° B 20'10	8.22539 AU	minimum elong	-4647 Aug 08 j 00:53	8° B 56'45	1°40'33
	-4653 Nov 29 j 16:39	30° R Y		max. Earth dist.	-4647 Aug 07 j 22:48	8° B 56'08	10.97906 AU
direct	-4652 Feb 02 j 06:54	26° Y 48'29		morning rise	-4647 Aug 24 j 20:53	10° B 55'09	
	-4652 Apr 04 j 20:35	0° B		retrograde	-4647 Dec 01 j 07:26	17° B 49'32	
evening set	-4652 May 18 j 15:15	4° B 52'41		opposition	-4646 Feb 08 j 05:50	14° B 32'48	2°14'34
				min. Earth dist.	-4646 Feb 08 j 07:52	14° B 32'26	9.02999 AU
conjunction	-4652 Jun 05 j 15:29	7° B 08'14	-0°44'56	direct	-4646 Apr 20 j 19:00	11° B 10'19	
minimum elong	-4652 Jun 05 j 15:31	7° B 08'14	0°44'48	evening set	-4646 Aug 02 j 19:15	18° B 21'37	
max. Earth dist.	-4652 Jun 06 j 05:57	7° B 12'48	10.29654 AU				
morning rise	-4652 Jun 23 j 11:46	9° B 22'28		conjunction	-4646 Aug 19 j 15:21	20° B 19'02	1°59'13
	-4652 Aug 15 j 08:53	15° B		minimum elong	-4646 Aug 19 j 15:19	20° B 19'02	1°59'28
retrograde	-4652 Oct 02 j 16:45	17° B 03'20		max. Earth dist.	-4646 Aug 19 j 10:59	20° B 17'46	11.07377 AU
	-4652 Nov 21 j 08:34	15° R B		morning rise	-4646 Sep 05 j 06:57	22° B 15'14	
opposition	-4652 Dec 08 j 12:40	13° B 39'32	-0°36'04	retrograde	-4646 Dec 12 j 18:53	29° B 05'33	
min. Earth dist.	-4652 Dec 08 j 01:45	13° B 41'44	8.36832 AU	opposition	-4645 Feb 20 j 03:19	25° B 49'25	2°34'35
direct	-4651 Feb 15 j 11:19	10° B 11'15		min. Earth dist.	-4645 Feb 20 j 08:06	25° B 48'32	9.11382 AU
	-4651 May 05 j 20:49	15° B		direct	-4645 May 02 j 21:43	22° B 27'59	
evening set	-4651 Jun 01 j 16:17	18° B 05'46		evening set	-4645 Aug 14 j 07:15	29° B 33'31	
					-4645 Aug 18 j 03:49	0° B	
conjunction	-4651 Jun 19 j 13:02	20° B 18'06	-0°12'37				
minimum elong	-4651 Jun 19 j 13:03	20° B 18'06	0°12'28	conjunction	-4645 Aug 30 j 23:08	1° B 29'04	2°13'16
behind sun begin	-4651 Jun 19 j 08:25	20° B 16'40		minimum elong	-4645 Aug 30 j 23:06	1° B 29'03	2°13'29
behind sun end	-4651 Jun 19 j 17:41	20° B 19'31		max. Earth dist.	-4645 Aug 30 j 15:47	1° B 26'56	11.14485 AU
max. Earth dist.	-4651 Jun 20 j 00:58	20° B 21'47	10.44300 AU	morning rise	-4645 Sep 16 j 11:11	3° B 23'34	
morning rise	-4651 Jul 07 j 04:57	22° B 28'56		retrograde	-4645 Dec 24 j 03:25	10° B 11'37	
retrograde	-4651 Oct 15 j 11:44	29° B 57'26		opposition	-4644 Mar 02 j 22:18	6° B 55'48	2°48'29
asc. node	-4651 Nov 13 j 12:45	29° B 12'53		min. Earth dist.	-4644 Mar 03 j 06:08	6° B 54'21	9.17279 AU

Attention, astronomical year style is used: The year -4644 in astronomical counting style is the year 4645 BCE in historical counting style.

direct	-4644 May 13 j 17:51	3°Ω35'16		opposition	-4638 May 12 j 08:07	13°♂31'20	1°58'58
evening set	-4644 Aug 24 j 13:39	10°Ω36'21		min. Earth dist.	-4638 May 12 j 21:22	13°♂28'52	8.96021 AU
				direct	-4638 Jul 21 j 11:52	10°♂12'51	
conjunction	-4644 Sep 10 j 02:05	12°Ω30'33	2°22'11	evening set	-4638 Oct 29 j 07:39	17°♂16'23	
minimum elong	-4644 Sep 10 j 02:04	12°Ω30'33	2°22'21				
max. Earth dist.	-4644 Sep 09 j 15:32	12°Ω27'29	11.19026 AU	conjunction	-4638 Nov 14 j 20:56	19°♂14'42	1°25'55
morning rise	-4644 Sep 26 j 11:41	14°Ω23'58		minimum elong	-4638 Nov 14 j 20:59	19°♂14'43	1°25'51
	-4644 Oct 01 j 19:36	15°Ω		max. Earth dist.	-4638 Nov 14 j 06:26	19°♂10'21	10.90277 AU
retrograde	-4643 Jan 03 j 10:57	21°Ω11'32		morning rise	-4638 Dec 01 j 12:31	21°♂13'49	
opposition	-4643 Mar 14 j 15:59	17°Ω55'41	2°56'05	retrograde	-4637 Mar 14 j 22:12	28°♂33'09	
min. Earth dist.	-4643 Mar 15 j 01:51	17°Ω53'53	9.20511 AU	opposition	-4637 May 24 j 19:40	25°♂11'49	1°29'48
	-4643 May 02 j 17:23	15°♂Ω		min. Earth dist.	-4637 May 25 j 07:41	25°♂09'34	8.84127 AU
direct	-4643 May 25 j 11:57	14°Ω35'56		direct	-4637 Aug 02 j 08:13	21°♂52'56	
	-4643 Jun 17 j 00:47	15°Ω		evening set	-4637 Nov 10 j 00:47	29°♂02'01	
evening set	-4643 Sep 04 j 15:53	21°Ω33'54			-4637 Nov 18 j 02:05	0°♂	
conjunction	-4643 Sep 21 j 02:00	23°Ω27'20	2°25'49	conjunction	-4637 Nov 26 j 17:04	1°♂02'48	1°00'02
minimum elong	-4643 Sep 21 j 02:00	23°Ω27'20	2°25'57	minimum elong	-4637 Nov 26 j 17:07	1°♂02'49	0°59'55
max. Earth dist.	-4643 Sep 20 j 13:45	23°Ω23'47	11.20862 AU	max. Earth dist.	-4637 Nov 26 j 03:07	0°♂58'34	10.77631 AU
morning rise	-4643 Oct 07 j 10:03	25°Ω20'14		morning rise	-4637 Dec 13 j 12:42	3°♂04'41	
	-4643 Nov 23 j 11:00	0°♂		retrograde	-4636 Mar 26 j 20:42	10°♂34'27	
retrograde	-4642 Jan 14 j 21:41	2°♂09'03		opposition	-4636 Jun 05 j 14:04	7°♂11'30	0°55'56
	-4642 Mar 10 j 18:18	30°♂Ω		min. Earth dist.	-4636 Jun 06 j 01:00	7°♂09'25	8.70732 AU
opposition	-4642 Mar 26 j 09:30	28°Ω52'54	2°57'16	direct	-4636 Aug 13 j 11:10	3°♂51'58	
min. Earth dist.	-4642 Mar 26 j 20:16	28°Ω50'56	9.20967 AU	evening set	-4636 Nov 21 j 03:10	11°♂08'06	
direct	-4642 Jun 06 j 02:46	25°Ω33'49					
	-4642 Aug 23 j 13:57	0°♂		conjunction	-4636 Dec 07 j 23:00	13°♂11'44	0°30'49
evening set	-4642 Sep 15 j 16:03	2°♂29'59		minimum elong	-4636 Dec 07 j 23:02	13°♂11'44	0°30'40
max. Earth dist.	-4642 Oct 01 j 11:47	4°♂19'27	11.19922 AU	max. Earth dist.	-4636 Dec 07 j 10:16	13°♂07'48	10.63732 AU
					-4636 Dec 22 j 15:54	15°♂	
conjunction	-4642 Oct 02 j 00:55	4°♂23'16	2°24'07	morning rise	-4636 Dec 24 j 23:09	15°♂16'43	
minimum elong	-4642 Oct 02 j 00:57	4°♂23'17	2°24'13	retrograde	-4635 Apr 09 j 05:23	22°♂57'53	
morning rise	-4642 Oct 18 j 08:21	6°♂16'15		opposition	-4635 Jun 18 j 15:41	19°♂33'14	0°18'23
retrograde	-4641 Jan 26 j 10:13	13°♂07'59		min. Earth dist.	-4635 Jun 19 j 01:19	19°♂31'23	8.56385 AU
opposition	-4641 Apr 07 j 04:11	9°♂51'17	2°52'03	direct	-4635 Aug 25 j 22:05	16°♂12'49	
min. Earth dist.	-4641 Apr 07 j 16:17	9°♂49'05	9.18626 AU	evening set	-4635 Dec 03 j 16:18	23°♂37'21	
direct	-4641 Jun 17 j 14:13	6°♂32'40		desc. node	-4635 Dec 12 j 14:00	24°♂43'23	
evening set	-4641 Sep 26 j 15:55	13°♂28'31					
max. Earth dist.	-4641 Oct 12 j 09:31	15°♂17'53	11.16237 AU	conjunction	-4635 Dec 20 j 16:12	25°♂44'06	-0°00'43
				minimum elong	-4635 Dec 20 j 16:12	25°♂44'06	0°00'54
conjunction	-4641 Oct 13 j 00:22	15°♂22'13	2°17'06	behind sun begin	-4635 Dec 20 j 09:06	25°♂41'54	
minimum elong	-4641 Oct 13 j 00:24	15°♂22'13	2°17'11	behind sun end	-4635 Dec 20 j 23:18	25°♂46'17	
morning rise	-4641 Oct 29 j 08:26	17°♂15'53		max. Earth dist.	-4635 Dec 20 j 06:05	25°♂40'57	10.49148 AU
retrograde	-4640 Feb 07 j 03:33	24°♂12'11		morning rise	-4634 Jan 06 j 20:55	27°♂52'24	
opposition	-4640 Apr 18 j 01:35	20°♂54'41	2°40'27		-4634 Jan 24 j 18:42	0°♂	
min. Earth dist.	-4640 Apr 18 j 15:07	20°♂52'12	9.13568 AU	retrograde	-4634 Apr 23 j 00:35	5°♂45'33	
direct	-4640 Jun 28 j 03:14	17°♂36'20		opposition	-4634 Jul 02 j 01:08	2°♂19'13	-0°21'22
evening set	-4640 Oct 06 j 17:06	24°♂33'14		min. Earth dist.	-4634 Jul 02 j 08:23	2°♂17'48	8.41691 AU
max. Earth dist.	-4640 Oct 22 j 10:05	26°♂23'13	11.09926 AU		-4634 Aug 03 j 20:55	30°♂♂	
				direct	-4634 Sep 07 j 16:18	28°♂57'42	
conjunction	-4640 Oct 23 j 02:10	26°♂27'56	2°04'54		-4634 Oct 11 j 17:28	0°♂	
minimum elong	-4640 Oct 23 j 02:12	26°♂27'57	2°04'56	evening set	-4634 Dec 16 j 17:36	6°♂31'48	
morning rise	-4640 Nov 08 j 12:00	28°♂22'54					
	-4640 Nov 22 j 22:14	0°♂		conjunction	-4633 Jan 02 j 21:41	8°♂41'46	-0°33'04
retrograde	-4639 Feb 18 j 00:57	5°♂25'23		minimum elong	-4633 Jan 02 j 21:40	8°♂41'46	0°33'16
opposition	-4639 Apr 30 j 02:36	2°♂06'48	2°22'40	max. Earth dist.	-4633 Jan 02 j 15:00	8°♂39'39	10.34504 AU
min. Earth dist.	-4639 Apr 30 j 16:41	2°♂04'13	9.05951 AU	morning rise	-4633 Jan 20 j 06:50	10°♂53'26	
	-4639 May 31 j 06:47	30°♂♂		retrograde	-4633 May 07 j 05:12	18°♂58'43	
direct	-4639 Jul 09 j 17:26	28°♂48'30		opposition	-4633 Jul 15 j 18:32	15°♂30'44	-1°01'26
	-4639 Aug 17 j 03:05	0°♂		min. Earth dist.	-4633 Jul 15 j 22:42	15°♂29'55	8.27300 AU
evening set	-4639 Oct 17 j 21:43	5°♂47'59		direct	-4633 Sep 20 j 20:08	12°♂07'58	
				evening set	-4633 Dec 30 j 08:18	19°♂52'32	
conjunction	-4639 Nov 03 j 08:30	7°♂44'13	1°47'43				
minimum elong	-4639 Nov 03 j 08:33	7°♂44'14	1°47'42	conjunction	-4632 Jan 16 j 16:33	22°♂05'45	-1°04'37
max. Earth dist.	-4639 Nov 02 j 17:03	7°♂39'38	11.01177 AU	minimum elong	-4632 Jan 16 j 16:30	22°♂05'44	1°04'49
morning rise	-4639 Nov 19 j 20:50	9°♂41'00		max. Earth dist.	-4632 Jan 16 j 13:05	22°♂04'38	10.20478 AU
retrograde	-4638 Mar 02 j 07:14	16°♂51'13		morning rise	-4632 Feb 03 j 05:58	24°♂20'42	

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Attention, astronomical year style is used: The year -4632 in astronomical counting style is the year 4633 BCE in historical counting style.

	-4632 Mar 25 j 10:02	0°♄	conjunction	-4626 Apr 16 j 10:30	18°♄59'27	-2°11'36
retrograde	-4632 May 20 j 19:47	2°♄37'31	minimum elong	-4626 Apr 16 j 10:33	18°♄59'28	2°11'40
	-4632 Jul 17 j 23:01	30°♄♂	max. Earth dist.	-4626 Apr 17 j 03:34	19°♄05'05	9.91087 AU
opposition	-4632 Jul 28 j 19:33	29°♄08'06	morning rise	-4626 May 04 j 13:45	21°♄22'11	
min. Earth dist.	-4632 Jul 28 j 20:30	29°♄07'55	retrograde	-4626 Aug 17 j 21:15	29°♄46'37	
direct	-4632 Oct 03 j 08:26	25°♄43'58	opposition	-4626 Oct 23 j 07:39	26°♄16'37	-2°34'27
	-4632 Dec 12 j 23:45	0°♄	min. Earth dist.	-4626 Oct 22 j 18:12	26°♄19'26	7.94663 AU
evening set	-4631 Jan 12 j 12:43	3°♄39'29	direct	-4626 Dec 28 j 23:25	22°♄46'18	
				-4625 Apr 04 j 17:50	0°♄	
conjunction	-4631 Jan 30 j 00:56	5°♄55'46	evening set	-4625 Apr 13 j 19:15	1°♄08'44	
minimum elong	-4631 Jan 30 j 00:52	5°♄55'45				
max. Earth dist.	-4631 Jan 30 j 00:38	5°♄55'40	conjunction	-4625 May 01 j 23:07	3°♄30'19	-1°53'16
morning rise	-4631 Feb 16 j 18:19	8°♄13'45	minimum elong	-4625 May 01 j 23:12	3°♄30'20	1°53'15
retrograde	-4631 Jun 04 j 18:26	16°♄40'35	max. Earth dist.	-4625 May 02 j 17:23	3°♄36'17	9.98775 AU
opposition	-4631 Aug 12 j 03:34	13°♄10'03	morning rise	-4625 May 20 j 01:43	5°♄51'25	
min. Earth dist.	-4631 Aug 12 j 01:34	13°♄10'27	retrograde	-4625 Sep 01 j 04:46	14°♄04'36	
direct	-4631 Oct 17 j 05:42	9°♄44'30	opposition	-4625 Nov 06 j 13:35	10°♄35'59	-2°06'51
evening set	-4630 Jan 27 j 06:04	17°♄50'32	min. Earth dist.	-4625 Nov 05 j 23:49	10°♄38'50	8.03831 AU
			direct	-4624 Jan 12 j 18:50	7°♄05'39	
conjunction	-4630 Feb 13 j 21:59	20°♄09'29	evening set	-4624 Apr 27 j 23:32	15°♄22'06	
minimum elong	-4630 Feb 13 j 21:56	20°♄09'28				
max. Earth dist.	-4630 Feb 14 j 01:25	20°♄10'37	conjunction	-4624 May 16 j 02:56	17°♄41'42	-1°28'20
morning rise	-4630 Mar 03 j 18:45	22°♄30'00	minimum elong	-4624 May 16 j 03:00	17°♄41'44	1°28'16
	-4630 May 16 j 04:53	0°♄	max. Earth dist.	-4624 May 16 j 20:55	17°♄47'31	10.09418 AU
retrograde	-4630 Jun 19 j 22:18	1°♄04'14	morning rise	-4624 Jun 03 j 03:41	20°♄00'25	
	-4630 Jul 24 j 18:36	30°♄♂	retrograde	-4624 Sep 14 j 01:13	28°♄00'43	
opposition	-4630 Aug 26 j 17:03	27°♄32'55	opposition	-4624 Nov 19 j 12:04	24°♄33'45	-1°32'23
min. Earth dist.	-4630 Aug 26 j 12:13	27°♄33'55	min. Earth dist.	-4624 Nov 18 j 23:10	24°♄36'24	8.15609 AU
direct	-4630 Oct 31 j 12:49	24°♄05'58	direct	-4623 Jan 26 j 09:36	21°♄03'47	
	-4629 Jan 23 j 18:37	0°♄	evening set	-4623 May 12 j 17:35	29°♄12'10	
evening set	-4629 Feb 11 j 10:27	2°♄21'07		-4623 May 19 j 02:08	0°♄	
conjunction	-4629 Mar 01 j 05:52	4°♄42'10	conjunction	-4623 May 30 j 19:09	1°♄29'09	-0°58'52
minimum elong	-4629 Mar 01 j 05:49	4°♄42'09	minimum elong	-4623 May 30 j 19:12	1°♄29'10	0°58'45
max. Earth dist.	-4629 Mar 01 j 13:18	4°♄44'38	max. Earth dist.	-4623 May 31 j 11:30	1°♄34'21	10.22295 AU
morning rise	-4629 Mar 19 j 05:26	7°♄04'32	morning rise	-4623 Jun 17 j 17:00	3°♄44'55	
	-4629 Jun 07 j 05:56	15°♄	retrograde	-4623 Sep 27 j 09:50	11°♄31'50	
retrograde	-4629 Jul 05 j 03:39	15°♄42'32	opposition	-4623 Dec 03 j 02:31	8°♄06'41	-0°53'47
	-4629 Aug 02 j 01:01	15°♄	min. Earth dist.	-4623 Dec 02 j 15:23	8°♄08'56	8.29252 AU
opposition	-4629 Sep 10 j 09:55	12°♄10'52	direct	-4622 Feb 09 j 17:11	4°♄37'26	
min. Earth dist.	-4629 Sep 10 j 02:26	12°♄12'25	evening set	-4622 May 26 j 23:45	12°♄36'26	
direct	-4629 Nov 15 j 04:35	8°♄42'39				
	-4628 Feb 10 j 14:54	15°♄	conjunction	-4622 Jun 13 j 22:13	14°♄50'19	-0°26'58
evening set	-4628 Feb 26 j 22:49	17°♄04'31	minimum elong	-4622 Jun 13 j 22:15	14°♄50'20	0°26'49
			max. Earth dist.	-4622 Jun 14 j 11:35	14°♄54'30	10.36613 AU
conjunction	-4628 Mar 15 j 21:23	19°♄26'58		-4622 Jun 15 j 05:09	15°♄	
minimum elong	-4628 Mar 15 j 21:23	19°♄26'58	morning rise	-4622 Jul 01 j 16:16	17°♄02'48	
max. Earth dist.	-4628 Mar 16 j 08:39	19°♄30'43	retrograde	-4622 Oct 10 j 07:57	24°♄36'48	
morning rise	-4628 Apr 02 j 23:03	21°♄50'23	opposition	-4622 Dec 16 j 08:32	21°♄13'30	-0°13'38
	-4628 Jun 26 j 22:04	0°♄	min. Earth dist.	-4622 Dec 15 j 23:16	21°♄15'21	8.43960 AU
retrograde	-4628 Jul 19 j 06:55	0°♄27'56	direct	-4621 Feb 23 j 16:03	17°♄45'15	
	-4628 Aug 10 j 15:56	30°♄	asc. node	-4621 Apr 24 j 13:37	20°♄36'29	
opposition	-4628 Sep 24 j 03:41	26°♄56'22	evening set	-4621 Jun 09 j 17:49	25°♄34'22	
min. Earth dist.	-4628 Sep 23 j 17:50	26°♄58'26				
direct	-4628 Nov 29 j 01:40	23°♄27'07	conjunction	-4621 Jun 27 j 12:11	27°♄44'56	0°05'28
	-4627 Feb 26 j 21:26	0°♄	minimum elong	-4621 Jun 27 j 12:11	27°♄44'56	0°05'39
evening set	-4627 Mar 13 j 15:19	1°♄52'37	behind sun begin	-4621 Jun 27 j 05:15	27°♄42'49	
			behind sun end	-4621 Jun 27 j 19:07	27°♄47'02	
conjunction	-4627 Mar 31 j 16:28	4°♄15'38	max. Earth dist.	-4621 Jun 27 j 22:09	27°♄47'59	10.51570 AU
minimum elong	-4627 Mar 31 j 16:30	4°♄15'39	morning rise	-4621 Jul 15 j 01:39	29°♄53'57	
max. Earth dist.	-4627 Apr 01 j 07:04	4°♄20'29		-4621 Jul 15 j 21:46	0°♄	
morning rise	-4627 Apr 18 j 19:23	6°♄39'10	retrograde	-4621 Oct 22 j 20:43	7°♄16'06	
retrograde	-4627 Aug 03 j 05:34	15°♄12'02	opposition	-4621 Dec 29 j 06:23	3°♄54'38	0°25'47
opposition	-4627 Oct 08 j 19:42	11°♄41'02	min. Earth dist.	-4621 Dec 28 j 22:54	3°♄56'06	8.58949 AU
min. Earth dist.	-4627 Oct 08 j 07:41	11°♄43'33	direct	-4620 Mar 08 j 05:36	0°♄27'36	
direct	-4627 Dec 14 j 01:04	8°♄11'04	evening set	-4620 Jun 21 j 23:44	8°♄06'55	
evening set	-4626 Mar 29 j 07:29	16°♄36'43				

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Attention, astronomical year style is used: The year -4620 in astronomical counting style is the year 4621 BCE in historical counting style.

conjunction	-4620 Jul 09 j 13:20	10° Π 14'07	0°36'36	evening set	-4614 Aug 31 j 04:47	16° Ω 59'59	
minimum elong	-4620 Jul 09 j 13:19	10° Π 14'06	0°36'48				
max. Earth dist.	-4620 Jul 09 j 20:22	10° Π 16'15	10.66411 AU	conjunction	-4614 Sep 16 j 15:54	18° Ω 53'37	2°24'45
morning rise	-4620 Jul 26 j 21:40	12° Π 19'42		minimum elong	-4614 Sep 16 j 15:53	18° Ω 53'36	2°24'54
retrograde	-4620 Nov 03 j 00:54	19° Π 31'35		max. Earth dist.	-4614 Sep 16 j 05:15	18° Ω 50'31	11.21790 AU
opposition	-4619 Jan 09 j 21:06	16° Π 11'48	1°02'40	morning rise	-4614 Oct 03 j 00:22	20° Ω 46'33	
min. Earth dist.	-4619 Jan 09 j 15:34	16° Π 12'52	8.73499 AU	retrograde	-4613 Jan 10 j 07:18	27° Ω 34'18	
direct	-4619 Mar 21 j 10:45	12° Π 46'08		opposition	-4613 Mar 21 j 14:56	24° Ω 18'53	2°57'21
evening set	-4619 Jul 04 j 18:00	20° Π 16'08		min. Earth dist.	-4613 Mar 22 j 01:42	24° Ω 16'56	9.22561 AU
				direct	-4613 Jun 01 j 08:13	21° Ω 00'04	
conjunction	-4619 Jul 22 j 02:27	22° Π 20'04	1°05'15	evening set	-4613 Sep 11 j 05:57	27° Ω 56'37	
minimum elong	-4619 Jul 22 j 02:25	22° Π 20'04	1°05'28				
max. Earth dist.	-4619 Jul 22 j 07:01	22° Π 21'27	10.80458 AU	conjunction	-4613 Sep 27 j 15:05	29° Ω 49'47	2°25'24
morning rise	-4619 Aug 08 j 05:28	24° Π 22'27		minimum elong	-4613 Sep 27 j 15:06	29° Ω 49'47	2°25'31
	-4619 Oct 04 j 22:18	0° Ξ		max. Earth dist.	-4613 Sep 27 j 01:15	29° Ω 45'46	11.22133 AU
retrograde	-4619 Nov 14 j 23:46	1° Ξ 25'49			-4613 Sep 29 j 02:19	0° Π	
	-4619 Dec 27 j 01:18	30° \mathbb{R} Π		morning rise	-4613 Oct 13 j 22:42	1° Π 42'33	
opposition	-4618 Jan 22 j 05:28	28° Π 07'31	1°35'39	retrograde	-4612 Jan 21 j 17:14	8° Π 32'28	
min. Earth dist.	-4618 Jan 22 j 02:56	28° Π 08'00	8.86976 AU	opposition	-4612 Apr 01 j 09:13	5° Π 16'35	2°54'57
direct	-4618 Apr 03 j 05:58	24° Π 43'16		min. Earth dist.	-4612 Apr 01 j 22:03	5° Π 14'15	9.21409 AU
	-4618 Jun 28 j 12:28	0° Ξ		direct	-4612 Jun 11 j 21:51	1° Π 58'15	
evening set	-4618 Jul 17 j 02:00	2° Ξ 04'48		evening set	-4612 Sep 21 j 05:53	8° Π 53'52	
conjunction	-4618 Aug 03 j 05:10	4° Ξ 05'46	1°30'25	conjunction	-4612 Oct 07 j 14:18	10° Π 47'12	2°20'44
minimum elong	-4618 Aug 03 j 05:07	4° Ξ 05'46	1°30'39	minimum elong	-4612 Oct 07 j 14:20	10° Π 47'12	2°20'50
max. Earth dist.	-4618 Aug 03 j 06:14	4° Ξ 06'05	10.93127 AU	max. Earth dist.	-4612 Oct 06 j 23:05	10° Π 42'46	11.19502 AU
morning rise	-4618 Aug 20 j 03:09	6° Ξ 05'17		morning rise	-4612 Oct 23 j 22:00	12° Π 40'24	
retrograde	-4618 Nov 26 j 15:18	13° Ξ 01'53		retrograde	-4611 Feb 01 j 09:32	19° Π 34'15	
opposition	-4617 Feb 03 j 08:23	9° Ξ 44'51	2°03'46	opposition	-4611 Apr 13 j 05:20	16° Π 17'35	2°46'10
min. Earth dist.	-4617 Feb 03 j 09:15	9° Ξ 44'41	8.98838 AU	min. Earth dist.	-4611 Apr 13 j 18:58	16° Π 15'06	9.17284 AU
direct	-4617 Apr 15 j 16:32	6° Ξ 21'56		direct	-4611 Jun 23 j 12:02	12° Π 59'32	
evening set	-4617 Jul 29 j 00:55	13° Ξ 36'04		evening set	-4611 Oct 02 j 06:22	19° Π 55'39	
conjunction	-4617 Aug 14 j 22:57	15° Ξ 34'27	1°51'22	conjunction	-4611 Oct 18 j 15:10	21° Π 49'47	2°10'48
minimum elong	-4617 Aug 14 j 22:54	15° Ξ 34'26	1°51'36	minimum elong	-4611 Oct 18 j 15:12	21° Π 49'48	2°10'52
max. Earth dist.	-4617 Aug 14 j 19:57	15° Ξ 33'34	11.03938 AU	max. Earth dist.	-4611 Oct 17 j 23:22	21° Π 45'10	11.13987 AU
morning rise	-4617 Aug 31 j 16:28	17° Ξ 31'32		morning rise	-4611 Nov 03 j 23:57	23° Π 44'02	
retrograde	-4617 Dec 08 j 02:40	24° Ξ 23'15			-4610 Jan 14 j 03:37	0° Ξ	
opposition	-4616 Feb 15 j 07:19	21° Ξ 07'08	2°26'21	retrograde	-4610 Feb 13 j 05:39	0° Ξ 43'27	
min. Earth dist.	-4616 Feb 15 j 10:53	21° Ξ 06'29	9.08637 AU		-4610 Mar 15 j 19:57	30° \mathbb{R} Π	
direct	-4616 Apr 26 j 23:25	17° Ξ 45'30		opposition	-4610 Apr 25 j 04:39	27° Π 25'43	2°31'07
evening set	-4616 Aug 08 j 15:52	24° Ξ 53'21		min. Earth dist.	-4610 Apr 25 j 18:46	27° Π 23'07	9.10355 AU
				direct	-4610 Jul 05 j 00:35	24° Π 07'41	
conjunction	-4616 Aug 25 j 09:26	26° Ξ 49'36	2°07'35		-4610 Oct 03 j 17:48	0° Ξ	
minimum elong	-4616 Aug 25 j 09:23	26° Ξ 49'35	2°07'49	evening set	-4610 Oct 13 j 09:33	1° Ξ 05'49	
max. Earth dist.	-4616 Aug 25 j 03:25	26° Ξ 47'51	11.12506 AU				
morning rise	-4616 Sep 10 j 23:05	28° Ξ 44'43		conjunction	-4610 Oct 29 j 19:28	3° Ξ 01'17	1°55'48
	-4616 Sep 22 j 03:58	0° Ω		minimum elong	-4610 Oct 29 j 19:31	3° Ξ 01'17	1°55'48
retrograde	-4616 Dec 18 j 13:06	5° Ω 33'25		max. Earth dist.	-4610 Oct 29 j 02:29	2° Ξ 56'16	11.05818 AU
opposition	-4615 Feb 26 j 03:16	2° Ω 17'51	2°42'57	morning rise	-4610 Nov 15 j 06:28	4° Ξ 57'09	
min. Earth dist.	-4615 Feb 26 j 08:37	2° Ω 16'52	9.16019 AU	retrograde	-4609 Feb 25 j 08:07	12° Ξ 03'42	
	-4615 Apr 01 j 14:57	30° \mathbb{R} Ξ		opposition	-4609 May 07 j 08:20	8° Ξ 44'37	2°10'01
direct	-4615 May 08 j 22:59	28° Ξ 57'23		min. Earth dist.	-4609 May 07 j 23:13	8° Ξ 41'52	9.00908 AU
	-4615 Jun 14 j 15:08	0° Ω		direct	-4609 Jul 16 j 16:42	5° Ξ 26'19	
evening set	-4615 Aug 20 j 00:37	6° Ω 00'07		evening set	-4609 Oct 24 j 17:06	12° Ξ 27'56	
				max. Earth dist.	-4609 Nov 09 j 11:40	14° Ξ 20'06	10.95318 AU
conjunction	-4615 Sep 05 j 14:35	7° Ω 54'47	2°18'47				
minimum elong	-4615 Sep 05 j 14:33	7° Ω 54'46	2°18'58	conjunction	-4609 Nov 10 j 05:01	14° Ξ 25'16	1°36'00
max. Earth dist.	-4615 Sep 05 j 06:44	7° Ω 52'30	11.18530 AU	minimum elong	-4609 Nov 10 j 05:04	14° Ξ 25'17	1°35'57
morning rise	-4615 Sep 22 j 01:05	9° Ω 48'31		morning rise	-4609 Nov 26 j 19:10	16° Ξ 23'19	
	-4615 Nov 15 j 06:01	15° Ω		retrograde	-4608 Mar 08 j 17:38	23° Ξ 38'29	
retrograde	-4615 Dec 29 j 21:59	16° Ω 35'53		opposition	-4608 May 18 j 17:25	20° Ξ 17'48	1°43'13
	-4614 Feb 14 j 02:41	15° \mathbb{R} Ω		min. Earth dist.	-4608 May 19 j 08:06	20° Ξ 15'04	8.89314 AU
opposition	-4614 Mar 09 j 21:19	13° Ω 20'34	2°53'20	direct	-4608 Jul 27 j 12:21	16° Ξ 58'59	
min. Earth dist.	-4614 Mar 10 j 05:08	13° Ω 19'08	9.20725 AU	evening set	-4608 Nov 04 j 06:47	24° Ξ 05'35	
direct	-4614 May 20 j 16:59	10° Ω 01'01					
	-4614 Aug 12 j 22:02	15° Ω		conjunction	-4608 Nov 20 j 21:40	26° Ξ 05'16	1°11'51

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Attention, astronomical year style is used: The year -4608 in astronomical counting style is the year 4609 BCE in historical counting style.

minimum elong	-4608 Nov 20 j 21:43	26° Ω 05'17	1°11'45	opposition	-4602 Aug 06 j 06:53	7° Ξ 15'32	-1°59'02
max. Earth dist.	-4608 Nov 20 j 05:46	26° Ω 00'28	10.82873 AU	min. Earth dist.	-4602 Aug 06 j 06:27	7° Ξ 15'37	8.05317 AU
morning rise	-4608 Dec 07 j 15:32	28° Ω 05'56		direct	-4602 Oct 11 j 14:09	3° Ξ 50'00	
	-4608 Dec 24 j 04:34	0° \mathbb{M}		evening set	-4601 Jan 21 j 04:17	11° Ξ 52'15	
retrograde	-4607 Mar 21 j 11:53	5° \mathbb{M} 31'08					
opposition	-4607 May 31 j 08:42	2° \mathbb{M} 08'39	1°11'21	conjunction	-4601 Feb 07 j 18:46	14° Ξ 10'18	-1°47'31
min. Earth dist.	-4607 May 31 j 21:50	2° \mathbb{M} 06'10	8.76005 AU	minimum elong	-4601 Feb 07 j 18:43	14° Ξ 10'17	1°47'44
	-4607 Jul 01 j 05:36	30° \mathbb{R} Ω		max. Earth dist.	-4601 Feb 07 j 21:55	14° Ξ 11'21	10.00000 AU
direct	-4607 Aug 08 j 14:22	28° Ω 49'06		morning rise	-4601 Feb 25 j 14:10	16° Ξ 30'01	
	-4607 Sep 14 j 20:57	0° \mathbb{M}		retrograde	-4601 Jun 13 j 16:12	25° Ξ 02'07	
evening set	-4607 Nov 16 j 04:52	6° \mathbb{M} 02'12		opposition	-4601 Aug 20 j 18:28	21° Ξ 30'31	-2°28'35
				min. Earth dist.	-4601 Aug 20 j 14:05	21° Ξ 31'25	7.95547 AU
conjunction	-4607 Dec 02 j 23:16	8° \mathbb{M} 04'39	0°44'01	direct	-4601 Oct 25 j 17:26	18° Ξ 03'41	
minimum elong	-4607 Dec 02 j 23:18	8° \mathbb{M} 04'39	0°43'52	evening set	-4600 Feb 05 j 04:20	26° Ξ 15'39	
max. Earth dist.	-4607 Dec 02 j 09:31	8° \mathbb{M} 00'26	10.68944 AU				
morning rise	-4607 Dec 19 j 21:16	10° \mathbb{M} 08'19		conjunction	-4600 Feb 22 j 22:28	28° Ξ 36'03	-2°07'42
	-4606 Feb 03 j 12:21	15° \mathbb{M}		minimum elong	-4600 Feb 22 j 22:26	28° Ξ 36'03	2°07'54
retrograde	-4606 Apr 03 j 17:16	17° \mathbb{M} 44'39		max. Earth dist.	-4600 Feb 23 j 06:18	28° Ξ 38'39	9.91656 AU
	-4606 Jun 04 j 14:11	15° \mathbb{R} \mathbb{M}			-4600 Mar 04 j 11:58	0° \approx	
opposition	-4606 Jun 13 j 06:55	14° \mathbb{M} 20'19	0°35'17	morning rise	-4600 Mar 11 j 20:51	0° \approx 57'53	
min. Earth dist.	-4606 Jun 13 j 17:36	14° \mathbb{M} 18'17	8.61508 AU	retrograde	-4600 Jun 27 j 21:50	9° \approx 35'21	
direct	-4606 Aug 20 j 21:27	10° \mathbb{M} 59'51		opposition	-4600 Sep 03 j 10:15	6° \approx 03'19	-2°49'17
	-4606 Oct 30 j 03:47	15° \mathbb{M}		min. Earth dist.	-4600 Sep 03 j 02:24	6° \approx 04'57	7.88934 AU
evening set	-4606 Nov 28 j 13:05	18° \mathbb{M} 20'55		direct	-4600 Nov 08 j 05:21	2° \approx 35'19	
				evening set	-4599 Feb 19 j 13:57	10° \approx 55'03	
conjunction	-4606 Dec 15 j 11:15	20° \mathbb{M} 26'25	0°13'24				
minimum elong	-4606 Dec 15 j 11:16	20° \mathbb{M} 26'25	0°13'14	conjunction	-4599 Mar 09 j 11:21	13° \approx 17'10	-2°19'59
behind sun begin	-4606 Dec 15 j 07:03	20° \mathbb{M} 25'08		minimum elong	-4599 Mar 09 j 11:20	13° \approx 17'09	2°20'09
behind sun end	-4606 Dec 15 j 15:28	20° \mathbb{M} 27'43		max. Earth dist.	-4599 Mar 09 j 23:19	13° \approx 21'09	9.86763 AU
max. Earth dist.	-4606 Dec 14 j 23:17	20° \mathbb{M} 22'43	10.54113 AU		-4599 Mar 22 j 09:02	15° \approx	
morning rise	-4605 Jan 01 j 13:50	22° \mathbb{M} 33'24		morning rise	-4599 Mar 27 j 12:04	15° \approx 40'21	
	-4605 Mar 27 j 13:15	0° \mathbb{X}		retrograde	-4599 Jul 13 j 03:14	24° \approx 19'11	
retrograde	-4605 Apr 17 j 08:58	0° \mathbb{X} 21'43		opposition	-4599 Sep 18 j 04:13	20° \approx 47'13	-2°59'09
	-4605 May 08 j 05:00	30° \mathbb{R} \mathbb{M}		min. Earth dist.	-4599 Sep 17 j 17:35	20° \approx 49'27	7.85965 AU
desc. node	-4605 May 22 j 09:28	29° \mathbb{M} 22'15		direct	-4599 Nov 22 j 23:28	17° \approx 18'16	
opposition	-4605 Jun 26 j 13:07	26° \mathbb{M} 55'34	-0°03'43	evening set	-4598 Mar 07 j 05:19	25° \approx 42'58	
min. Earth dist.	-4605 Jun 26 j 21:28	26° \mathbb{M} 53'56	8.46455 AU				
direct	-4605 Sep 02 j 10:36	23° \mathbb{M} 33'58		conjunction	-4598 Mar 25 j 05:27	28° \approx 05'58	-2°23'12
	-4605 Dec 02 j 13:52	0° \mathbb{X}		minimum elong	-4598 Mar 25 j 05:28	28° \approx 05'58	2°23'20
evening set	-4605 Dec 11 j 08:56	1° \mathbb{X} 04'19		max. Earth dist.	-4598 Mar 25 j 20:48	28° \approx 11'05	9.85708 AU
					-4598 Apr 08 j 13:15	0° \mathbb{H}	
conjunction	-4605 Dec 28 j 11:07	3° \mathbb{X} 13'05	-0°18'50	morning rise	-4598 Apr 12 j 07:50	0° \mathbb{H} 29'39	
minimum elong	-4605 Dec 28 j 11:06	3° \mathbb{X} 13'04	0°19'02	retrograde	-4598 Jul 28 j 05:35	9° \mathbb{H} 05'34	
max. Earth dist.	-4605 Dec 28 j 01:29	3° \mathbb{X} 10'02	10.39045 AU	opposition	-4598 Oct 02 j 21:44	5° \mathbb{H} 34'12	-2°57'09
morning rise	-4604 Jan 14 j 18:26	5° \mathbb{X} 23'29		min. Earth dist.	-4598 Oct 02 j 09:18	5° \mathbb{H} 36'49	7.86882 AU
retrograde	-4604 Apr 30 j 09:07	13° \mathbb{X} 24'10		direct	-4598 Dec 07 j 21:39	2° \mathbb{H} 04'34	
opposition	-4604 Jul 09 j 03:24	9° \mathbb{X} 56'16	-0°43'57	evening set	-4597 Mar 22 j 22:33	10° \mathbb{H} 30'53	
min. Earth dist.	-4604 Jul 09 j 09:21	9° \mathbb{X} 55'06	8.31555 AU				
direct	-4604 Sep 14 j 10:39	6° \mathbb{X} 33'25		conjunction	-4597 Apr 10 j 00:48	12° \mathbb{H} 53'55	-2°17'00
evening set	-4604 Dec 23 j 17:54	14° \mathbb{X} 14'06		minimum elong	-4597 Apr 10 j 00:51	12° \mathbb{H} 53'56	2°17'05
				max. Earth dist.	-4597 Apr 10 j 18:18	12° \mathbb{H} 59'43	9.88599 AU
conjunction	-4603 Jan 10 j 00:16	16° \mathbb{X} 26'09	-0°50'59	morning rise	-4597 Apr 28 j 04:03	15° \mathbb{H} 17'12	
minimum elong	-4603 Jan 10 j 00:14	16° \mathbb{X} 26'09	0°51'12	retrograde	-4597 Aug 12 j 01:48	23° \mathbb{H} 46'05	
max. Earth dist.	-4603 Jan 09 j 17:56	16° \mathbb{X} 24'07	10.24474 AU	opposition	-4597 Oct 17 j 12:09	20° \mathbb{H} 15'46	-2°43'30
morning rise	-4603 Jan 27 j 12:06	18° \mathbb{X} 39'57		min. Earth dist.	-4597 Oct 16 j 22:49	20° \mathbb{H} 18'33	7.91640 AU
retrograde	-4603 May 14 j 19:09	26° \mathbb{X} 52'38		direct	-4597 Dec 22 j 21:07	16° \mathbb{H} 45'46	
opposition	-4603 Jul 23 j 01:26	23° \mathbb{X} 23'12	-1°23'15	evening set	-4596 Apr 06 j 13:20	25° \mathbb{H} 10'15	
min. Earth dist.	-4603 Jul 23 j 04:35	23° \mathbb{X} 22'34	8.17577 AU				
direct	-4603 Sep 27 j 19:56	19° \mathbb{X} 59'00		conjunction	-4596 Apr 24 j 16:50	27° \mathbb{H} 32'27	-2°02'00
evening set	-4602 Jan 06 j 16:29	27° \mathbb{X} 50'34		minimum elong	-4596 Apr 24 j 16:54	27° \mathbb{H} 32'29	2°02'02
	-4602 Jan 23 j 09:16	0° Ξ		max. Earth dist.	-4596 Apr 25 j 11:15	27° \mathbb{H} 38'30	9.95225 AU
				morning rise	-4596 May 12 j 19:58	29° \mathbb{H} 54'25	
conjunction	-4602 Jan 24 j 03:01	0° Ξ 05'47	-1°21'15		-4596 May 13 j 13:21	0° \mathbb{Y}	
minimum elong	-4602 Jan 24 j 02:57	0° Ξ 05'46	1°21'28	retrograde	-4596 Aug 25 j 13:24	8° \mathbb{Y} 12'59	
max. Earth dist.	-4602 Jan 24 j 01:12	0° Ξ 05'11	10.11190 AU	opposition	-4596 Oct 30 j 21:24	4° \mathbb{Y} 44'04	-2°19'36
morning rise	-4602 Feb 10 j 18:53	2° Ξ 22'45		min. Earth dist.	-4596 Oct 30 j 07:36	4° \mathbb{Y} 46'56	7.99890 AU
retrograde	-4602 May 29 j 14:17	10° Ξ 46'14		direct	-4595 Jan 05 j 19:29	1° \mathbb{Y} 14'04	

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Attention, astronomical year style is used: The year -4595 in astronomical counting style is the year 4596 BCE in historical counting style.

evening set	-4595 Apr 21 j 21:42	9° Υ 33'34		morning rise	-4590 Aug 03 j 10:55	19° Π 32'50	
				retrograde	-4590 Nov 10 j 08:43	26° Π 39'41	
conjunction	-4595 May 10 j 01:16	11° Υ 54'03	-1°39'38	opposition	-4589 Jan 17 j 10:04	23° Π 21'05	1°22'11
minimum elong	-4595 May 10 j 01:21	11° Υ 54'05	1°39'36	min. Earth dist.	-4589 Jan 17 j 07:48	23° Π 21'31	8.81754 AU
max. Earth dist.	-4595 May 10 j 19:37	12° Υ 00'01	10.05091 AU	direct	-4589 Mar 29 j 05:46	19° Π 56'26	
morning rise	-4595 May 28 j 03:06	14° Υ 13'53		evening set	-4589 Jul 12 j 07:38	27° Π 21'39	
retrograde	-4595 Sep 08 j 13:56	22° Υ 19'57					
opposition	-4595 Nov 13 j 23:39	18° Υ 52'42	-1°47'43	conjunction	-4589 Jul 29 j 12:59	29° Π 23'53	1°20'13
min. Earth dist.	-4595 Nov 13 j 09:53	18° Υ 55'32	8.11043 AU	minimum elong	-4589 Jul 29 j 12:57	29° Π 23'52	1°20'27
direct	-4594 Jan 20 j 14:11	15° Υ 23'03		max. Earth dist.	-4589 Jul 29 j 13:18	29° Π 23'59	10.88042 AU
evening set	-4594 May 06 j 20:42	23° Υ 35'02			-4589 Aug 03 j 14:18	0° Θ	
				morning rise	-4589 Aug 15 j 13:16	1° Θ 24'36	
conjunction	-4594 May 24 j 23:07	25° Υ 53'07	-1°11'50	retrograde	-4589 Nov 22 j 03:07	8° Θ 24'03	
minimum elong	-4594 May 24 j 23:11	25° Υ 53'09	1°11'44	opposition	-4588 Jan 29 j 15:25	5° Θ 06'37	1°52'30
max. Earth dist.	-4594 May 25 j 16:22	25° Υ 58'39	10.17492 AU	min. Earth dist.	-4588 Jan 29 j 15:20	5° Θ 06'38	8.93895 AU
morning rise	-4594 Jun 11 j 22:29	28° Υ 10'10		direct	-4588 Apr 09 j 21:24	1° Θ 43'12	
	-4594 Jun 26 j 22:10	0° Ξ		evening set	-4588 Jul 23 j 10:31	9° Θ 00'36	
retrograde	-4594 Sep 22 j 03:08	6° Ξ 02'45					
opposition	-4594 Nov 27 j 17:41	2° Ξ 37'17	-1°10'32	conjunction	-4588 Aug 09 j 10:51	11° Θ 00'06	1°43'03
min. Earth dist.	-4594 Nov 27 j 04:37	2° Ξ 39'57	8.24320 AU	minimum elong	-4588 Aug 09 j 10:48	11° Θ 00'05	1°43'17
	-4593 Jan 03 j 10:48	30° Υ		max. Earth dist.	-4588 Aug 09 j 08:43	10° Θ 59'29	10.99227 AU
direct	-4593 Feb 04 j 01:13	29° Υ 08'16		morning rise	-4588 Aug 26 j 06:13	12° Θ 58'13	
	-4593 Mar 07 j 13:06	0° Ξ		retrograde	-4588 Dec 02 j 17:47	19° Θ 52'05	
evening set	-4593 May 21 j 08:24	7° Ξ 11'08		opposition	-4587 Feb 09 j 16:15	16° Θ 35'32	2°17'31
				min. Earth dist.	-4587 Feb 09 j 18:53	16° Θ 35'02	9.04143 AU
conjunction	-4593 Jun 08 j 08:25	9° Ξ 26'17	-0°40'43	direct	-4587 Apr 22 j 06:04	13° Θ 13'14	
minimum elong	-4593 Jun 08 j 08:27	9° Ξ 26'17	0°40'35	evening set	-4587 Aug 04 j 04:49	20° Θ 23'53	
max. Earth dist.	-4593 Jun 08 j 23:41	9° Ξ 31'05	10.31552 AU				
morning rise	-4593 Jun 26 j 04:13	11° Ξ 40'05		conjunction	-4587 Aug 21 j 00:26	22° Θ 21'06	2°01'20
	-4593 Jul 24 j 20:49	15° Ξ		minimum elong	-4587 Aug 21 j 00:23	22° Θ 21'05	2°01'34
retrograde	-4593 Oct 05 j 06:49	19° Ξ 19'19		max. Earth dist.	-4587 Aug 20 j 19:25	22° Θ 19'38	11.08323 AU
opposition	-4593 Dec 11 j 03:22	15° Ξ 55'43	-0°30'45	morning rise	-4587 Sep 06 j 15:36	24° Θ 17'05	
min. Earth dist.	-4593 Dec 10 j 16:19	15° Ξ 57'56	8.38811 AU		-4587 Nov 07 j 07:52	0° Ω	
	-4593 Dec 22 j 21:12	15° Υ		retrograde	-4587 Dec 14 j 04:08	1° Ω 07'08	
direct	-4592 Feb 18 j 03:16	12° Ξ 27'34			-4586 Jan 20 j 21:20	30° Υ	
	-4592 Apr 14 j 04:30	15° Ξ		opposition	-4586 Feb 21 j 13:31	27° Θ 51'09	2°36'45
evening set	-4592 Jun 03 j 08:00	20° Ξ 20'37		min. Earth dist.	-4586 Feb 21 j 19:29	27° Θ 50'02	9.12140 AU
				direct	-4586 May 04 j 06:55	24° Θ 29'52	
conjunction	-4592 Jun 21 j 04:21	22° Ξ 32'32	-0°08'22		-4586 Aug 01 j 09:47	0° Ω	
minimum elong	-4592 Jun 21 j 04:21	22° Ξ 32'32	0°08'12	evening set	-4586 Aug 15 j 16:17	1° Ω 34'59	
behind sun begin	-4592 Jun 20 j 21:57	22° Ξ 30'34					
behind sun end	-4592 Jun 21 j 10:45	22° Ξ 34'30		conjunction	-4586 Sep 01 j 07:43	3° Ω 30'23	2°14'43
max. Earth dist.	-4592 Jun 21 j 16:38	22° Ξ 36'20	10.46340 AU	minimum elong	-4586 Sep 01 j 07:41	3° Ω 30'22	2°14'55
morning rise	-4592 Jul 08 j 19:41	24° Ξ 42'55		max. Earth dist.	-4586 Aug 31 j 22:57	3° Ω 27'50	11.15031 AU
	-4592 Aug 27 j 22:33	0° Π		morning rise	-4586 Sep 17 j 19:36	5° Ω 24'47	
asc. node	-4592 Sep 26 j 13:52	1° Π 47'08		retrograde	-4586 Dec 25 j 11:29	12° Ω 12'50	
retrograde	-4592 Oct 17 j 01:00	2° Π 09'48		opposition	-4585 Mar 05 j 08:15	8° Ω 57'04	2°49'49
	-4592 Dec 07 j 15:51	30° Υ		min. Earth dist.	-4585 Mar 05 j 16:42	8° Ω 55'30	9.17619 AU
opposition	-4592 Dec 23 j 04:53	28° Ξ 48'03	0°09'13	direct	-4585 May 16 j 04:12	5° Ω 36'38	
min. Earth dist.	-4592 Dec 22 j 20:52	28° Ξ 49'38	8.53651 AU	evening set	-4585 Aug 26 j 22:17	12° Ω 37'32	
direct	-4591 Mar 02 j 19:54	25° Ξ 20'58					
	-4591 May 20 j 16:41	0° Π		conjunction	-4585 Sep 12 j 10:29	14° Ω 31'40	2°22'56
evening set	-4591 Jun 16 j 19:22	3° Π 04'16		minimum elong	-4585 Sep 12 j 10:28	14° Ω 31'40	2°23'06
				max. Earth dist.	-4585 Sep 11 j 23:27	14° Ω 28'28	11.19144 AU
conjunction	-4591 Jul 04 j 11:07	5° Π 12'50	0°23'34		-4585 Sep 16 j 12:09	15° Ω	
minimum elong	-4591 Jul 04 j 11:06	5° Π 12'50	0°23'45	morning rise	-4585 Sep 28 j 19:56	16° Ω 25'02	
max. Earth dist.	-4591 Jul 04 j 19:23	5° Π 15'21	10.61081 AU	retrograde	-4584 Jan 05 j 21:22	23° Ω 12'51	
morning rise	-4591 Jul 21 j 21:33	7° Π 19'49		opposition	-4584 Mar 16 j 01:59	19° Ω 57'00	2°56'35
retrograde	-4591 Oct 29 j 08:17	14° Π 35'50		min. Earth dist.	-4584 Mar 16 j 11:49	19° Ω 55'12	9.20407 AU
opposition	-4590 Jan 04 j 22:53	11° Π 15'47	0°47'22	direct	-4584 May 26 j 22:17	16° Ω 37'20	
min. Earth dist.	-4590 Jan 04 j 18:01	11° Π 16'44	8.68162 AU	evening set	-4584 Sep 06 j 00:22	23° Ω 35'15	
direct	-4590 Mar 16 j 05:20	7° Π 49'54					
evening set	-4590 Jun 29 j 18:55	15° Π 23'49		conjunction	-4584 Sep 22 j 10:26	25° Ω 28'43	2°25'51
				minimum elong	-4584 Sep 22 j 10:26	25° Ω 28'43	2°25'59
conjunction	-4590 Jul 17 j 05:32	17° Π 29'07	0°53'27	max. Earth dist.	-4584 Sep 21 j 22:19	25° Ω 25'12	11.20535 AU
minimum elong	-4590 Jul 17 j 05:29	17° Π 29'06	0°53'39	morning rise	-4584 Oct 08 j 18:19	27° Ω 21'39	
max. Earth dist.	-4590 Jul 17 j 09:27	17° Π 30'18	10.75166 AU		-4584 Nov 02 j 05:47	0° Υ	

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Attention, astronomical year style is used: The year -4583 in astronomical counting style is the year 4584 BCE in historical counting style.

retrograde	-4583 Jan 16 j 07:27	4° \mathbb{M} 10'56		opposition	-4577 Jun 08 j 05:20	9° \mathbb{M} 25'44	0°50'55
opposition	-4583 Mar 27 j 19:54	0° \mathbb{M} 54'43	2°56'55	min. Earth dist.	-4577 Jun 08 j 16:41	9° \mathbb{M} 23'35	8.68333 AU
min. Earth dist.	-4583 Mar 28 j 07:01	0° \mathbb{M} 52'41	9.20421 AU	direct	-4577 Aug 16 j 01:11	6° \mathbb{M} 05'58	
	-4583 Apr 09 j 11:36	30° \mathbb{R} 02		evening set	-4577 Nov 23 j 17:07	13° \mathbb{M} 23'27	
direct	-4583 Jun 07 j 11:35	27° \mathbb{M} 35'40			-4577 Dec 06 j 20:25	15° \mathbb{M}	
	-4583 Aug 02 j 19:14	0° \mathbb{M}					
evening set	-4583 Sep 17 j 00:42	4° \mathbb{M} 32'00		conjunction	-4577 Dec 10 j 13:29	15° \mathbb{M} 27'33	0°26'33
				minimum elong	-4577 Dec 10 j 13:30	15° \mathbb{M} 27'33	0°26'23
conjunction	-4583 Oct 03 j 09:30	6° \mathbb{M} 25'22	2°23'26	max. Earth dist.	-4577 Dec 10 j 01:21	15° \mathbb{M} 23'48	10.61303 AU
minimum elong	-4583 Oct 03 j 09:31	6° \mathbb{M} 25'23	2°23'32	morning rise	-4577 Dec 27 j 14:09	17° \mathbb{M} 33'02	
max. Earth dist.	-4583 Oct 02 j 19:35	6° \mathbb{M} 21'20	11.19165 AU	retrograde	-4576 Apr 10 j 23:05	25° \mathbb{M} 15'59	
morning rise	-4583 Oct 19 j 17:02	8° \mathbb{M} 18'28		opposition	-4576 Jun 20 j 08:17	21° \mathbb{M} 51'03	0°12'57
retrograde	-4582 Jan 27 j 21:29	15° \mathbb{M} 10'52		min. Earth dist.	-4576 Jun 20 j 17:30	21° \mathbb{M} 49'16	8.53949 AU
opposition	-4582 Apr 08 j 15:03	11° \mathbb{M} 54'04	2°50'49	direct	-4576 Aug 27 j 12:47	18° \mathbb{M} 30'24	
min. Earth dist.	-4582 Apr 09 j 04:08	11° \mathbb{M} 51'40	9.17662 AU	desc. node	-4576 Oct 22 j 08:40	21° \mathbb{M} 08'55	
direct	-4582 Jun 19 j 00:29	8° \mathbb{M} 35'24		evening set	-4576 Dec 05 j 07:57	25° \mathbb{M} 56'26	
evening set	-4582 Sep 28 j 00:54	15° \mathbb{M} 31'36					
				conjunction	-4576 Dec 22 j 08:26	28° \mathbb{M} 03'40	-0°05'15
conjunction	-4582 Oct 14 j 09:22	17° \mathbb{M} 25'28	2°15'43	minimum elong	-4576 Dec 22 j 08:26	28° \mathbb{M} 03'40	0°05'26
minimum elong	-4582 Oct 14 j 09:24	17° \mathbb{M} 25'28	2°15'47	behind sun begin	-4576 Dec 22 j 01:35	28° \mathbb{M} 01'32	
max. Earth dist.	-4582 Oct 13 j 17:33	17° \mathbb{M} 20'50	11.15078 AU	behind sun end	-4576 Dec 22 j 15:17	28° \mathbb{M} 05'48	
morning rise	-4582 Oct 30 j 17:44	19° \mathbb{M} 19'21		max. Earth dist.	-4576 Dec 21 j 23:30	28° \mathbb{M} 00'53	10.46738 AU
retrograde	-4581 Feb 08 j 13:26	26° \mathbb{M} 16'31			-4575 Jan 06 j 21:07	0° \mathbb{Z}	
opposition	-4581 Apr 20 j 12:57	22° \mathbb{M} 58'50	2°38'22	morning rise	-4575 Jan 08 j 13:37	0° \mathbb{Z} 12'28	
min. Earth dist.	-4581 Apr 21 j 03:06	22° \mathbb{M} 56'14	9.12211 AU	retrograde	-4575 Apr 24 j 19:31	8° \mathbb{Z} 07'29	
direct	-4581 Jun 30 j 12:54	19° \mathbb{M} 40'22		opposition	-4575 Jul 03 j 19:04	4° \mathbb{Z} 40'51	-0°27'00
evening set	-4581 Oct 09 j 02:33	26° \mathbb{M} 37'52		min. Earth dist.	-4575 Jul 04 j 01:13	4° \mathbb{Z} 39'39	8.39350 AU
				direct	-4575 Sep 09 j 08:59	1° \mathbb{Z} 19'09	
conjunction	-4581 Oct 25 j 11:52	28° \mathbb{M} 32'48	2°02'49	evening set	-4575 Dec 18 j 11:19	8° \mathbb{Z} 54'51	
minimum elong	-4581 Oct 25 j 11:54	28° \mathbb{M} 32'48	2°02'51				
max. Earth dist.	-4581 Oct 24 j 19:56	28° \mathbb{M} 28'06	11.08391 AU	conjunction	-4574 Jan 04 j 15:53	11° \mathbb{Z} 05'18	-0°37'34
	-4581 Nov 06 j 21:10	0° \mathbb{Z}		minimum elong	-4574 Jan 04 j 15:51	11° \mathbb{Z} 05'18	0°37'46
morning rise	-4581 Nov 10 j 21:56	0° \mathbb{Z} 28'01		max. Earth dist.	-4574 Jan 04 j 10:03	11° \mathbb{Z} 03'27	10.32261 AU
retrograde	-4580 Feb 20 j 13:34	7° \mathbb{Z} 31'38		morning rise	-4574 Jan 22 j 01:29	13° \mathbb{Z} 17'27	
opposition	-4580 May 01 j 14:40	4° \mathbb{Z} 12'48	2°19'45	retrograde	-4574 May 09 j 02:33	21° \mathbb{Z} 24'28	
min. Earth dist.	-4580 May 02 j 04:27	4° \mathbb{Z} 10'16	9.04235 AU	opposition	-4574 Jul 17 j 13:41	17° \mathbb{Z} 56'15	-1°06'56
direct	-4580 Jul 11 j 05:29	0° \mathbb{Z} 54'21		min. Earth dist.	-4574 Jul 17 j 16:45	17° \mathbb{Z} 55'39	8.25218 AU
evening set	-4580 Oct 19 j 07:56	7° \mathbb{Z} 54'36		direct	-4574 Sep 22 j 13:13	14° \mathbb{Z} 33'17	
				evening set	-4573 Jan 01 j 03:57	22° \mathbb{Z} 19'25	
conjunction	-4580 Nov 04 j 19:04	9° \mathbb{Z} 51'09	1°44'59				
minimum elong	-4580 Nov 04 j 19:07	9° \mathbb{Z} 51'10	1°44'57	conjunction	-4573 Jan 18 j 12:32	24° \mathbb{Z} 33'03	-1°08'51
max. Earth dist.	-4580 Nov 04 j 03:56	9° \mathbb{Z} 46'39	10.99307 AU	minimum elong	-4573 Jan 18 j 12:29	24° \mathbb{Z} 33'02	1°09'03
morning rise	-4580 Nov 21 j 07:42	11° \mathbb{Z} 48'16		max. Earth dist.	-4573 Jan 18 j 09:30	24° \mathbb{Z} 32'04	10.18575 AU
retrograde	-4579 Mar 03 j 21:47	18° \mathbb{Z} 59'47		morning rise	-4573 Feb 05 j 02:26	26° \mathbb{Z} 48'26	
opposition	-4579 May 13 j 21:11	15° \mathbb{Z} 39'37	1°55'15		-4573 Mar 03 j 15:55	0° \mathbb{Z}	
min. Earth dist.	-4579 May 14 j 10:08	15° \mathbb{Z} 37'13	8.94002 AU	retrograde	-4573 May 23 j 18:46	5° \mathbb{Z} 06'42	
direct	-4579 Jul 22 j 22:41	12° \mathbb{Z} 20'59		opposition	-4573 Jul 31 j 15:55	1° \mathbb{Z} 37'06	-1°44'27
evening set	-4579 Oct 30 j 18:54	19° \mathbb{Z} 25'28		min. Earth dist.	-4573 Jul 31 j 16:14	1° \mathbb{Z} 37'02	8.12250 AU
					-4573 Aug 21 j 13:40	30° \mathbb{R} 01	
conjunction	-4579 Nov 16 j 08:30	21° \mathbb{Z} 24'08	1°22'34	direct	-4573 Oct 06 j 02:27	28° \mathbb{Z} 12'46	
minimum elong	-4579 Nov 16 j 08:33	21° \mathbb{Z} 24'09	1°22'30		-4573 Nov 19 j 09:08	0° \mathbb{Z}	
max. Earth dist.	-4579 Nov 15 j 17:26	21° \mathbb{Z} 19'37	10.88141 AU	evening set	-4572 Jan 15 j 09:58	6° \mathbb{Z} 09'41	
morning rise	-4579 Dec 03 j 00:37	23° \mathbb{Z} 23'40					
	-4578 Feb 14 j 05:34	0° \mathbb{M}		conjunction	-4572 Feb 01 j 22:30	8° \mathbb{Z} 26'17	-1°37'01
retrograde	-4578 Mar 16 j 12:17	0° \mathbb{M} 44'30		minimum elong	-4572 Feb 01 j 22:26	8° \mathbb{Z} 26'16	1°37'14
	-4578 Apr 16 j 05:21	30° \mathbb{R} 01		max. Earth dist.	-4572 Feb 01 j 22:27	8° \mathbb{Z} 26'16	10.06393 AU
opposition	-4578 May 26 j 09:48	27° \mathbb{Z} 22'51	1°25'23	morning rise	-4572 Feb 19 j 16:19	10° \mathbb{Z} 44'37	
min. Earth dist.	-4578 May 26 j 22:09	27° \mathbb{Z} 20'32	8.81875 AU	retrograde	-4572 Jun 06 j 17:54	19° \mathbb{Z} 12'32	
direct	-4578 Aug 03 j 20:01	24° \mathbb{Z} 03'46		opposition	-4572 Aug 14 j 00:49	15° \mathbb{Z} 41'53	-2°16'55
	-4578 Nov 01 j 00:14	0° \mathbb{M}		min. Earth dist.	-4572 Aug 13 j 22:41	15° \mathbb{Z} 42'19	8.01194 AU
evening set	-4578 Nov 11 j 13:20	1° \mathbb{M} 14'01		direct	-4572 Oct 19 j 01:59	12° \mathbb{Z} 16'10	
				evening set	-4571 Jan 29 j 04:49	20° \mathbb{Z} 23'26	
conjunction	-4578 Nov 28 j 05:59	3° \mathbb{M} 15'14	0°56'09				
minimum elong	-4578 Nov 28 j 06:01	3° \mathbb{M} 15'14	0°56'02	conjunction	-4571 Feb 15 j 21:06	22° \mathbb{Z} 42'38	-1°59'59
max. Earth dist.	-4578 Nov 27 j 15:32	3° \mathbb{M} 10'50	10.75302 AU	minimum elong	-4571 Feb 15 j 21:03	22° \mathbb{Z} 42'37	2°00'11
morning rise	-4578 Dec 15 j 02:14	5° \mathbb{M} 17'34		max. Earth dist.	-4571 Feb 16 j 00:57	22° \mathbb{Z} 43'54	9.96523 AU
retrograde	-4577 Mar 29 j 12:42	12° \mathbb{M} 48'59		morning rise	-4571 Mar 05 j 18:14	25° \mathbb{Z} 03'24	

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Attention, astronomical year style is used: The year -4571 in astronomical counting style is the year 4572 BCE in historical counting style.

	-4571 Apr 16 j 18:57	0°♊	conjunction	-4565 May 19 j 00:57	20°♏11'32	-1°24'24
retrograde	-4571 Jun 21 j 21:16	3°♊38'16	minimum elong	-4565 May 19 j 01:01	20°♏11'33	1°24'20
opposition	-4571 Aug 28 j 14:47	0°♊06'56 -2°41'37	max. Earth dist.	-4565 May 19 j 18:40	20°♏17'14	10.11155 AU
min. Earth dist.	-4571 Aug 28 j 09:51	0°♊07'58 7.92863 AU	morning rise	-4565 Jun 06 j 01:29	22°♏29'54	
	-4571 Aug 30 j 00:19	30°♊		-4565 Aug 25 j 05:49	0°♊	
direct	-4571 Nov 02 j 11:12	26°♊39'53	retrograde	-4565 Sep 16 j 19:05	0°♊28'27	
	-4570 Jan 02 j 15:03	0°♊		-4565 Oct 09 j 09:56	30°♊	
evening set	-4570 Feb 13 j 10:19	4°♊55'58	opposition	-4565 Nov 22 j 07:03	27°♏01'46	-1°27'09
			min. Earth dist.	-4565 Nov 21 j 18:44	27°♏04'18	8.17470 AU
conjunction	-4570 Mar 03 j 06:06	7°♊17'13 -2°15'48	direct	-4564 Jan 29 j 06:49	23°♏31'56	
minimum elong	-4570 Mar 03 j 06:04	7°♊17'13 2°15'58		-4564 May 01 j 00:35	0°♊	
max. Earth dist.	-4570 Mar 03 j 14:18	7°♊19'57 9.89754 AU	evening set	-4564 May 14 j 14:20	1°♊39'02	
morning rise	-4570 Mar 21 j 05:53	9°♊39'44				
	-4570 May 05 j 21:20	15°♊	conjunction	-4564 Jun 01 j 15:33	3°♊55'36	-0°54'29
retrograde	-4570 Jul 07 j 01:43	18°♊17'54	minimum elong	-4564 Jun 01 j 15:36	3°♊55'37	0°54'22
	-4570 Sep 09 j 14:12	15°♊	max. Earth dist.	-4564 Jun 02 j 07:01	4°♊00'31	10.24266 AU
opposition	-4570 Sep 12 j 07:57	14°♊46'17 -2°56'17	morning rise	-4564 Jun 19 j 13:07	6°♊10'58	
min. Earth dist.	-4570 Sep 11 j 23:59	14°♊47'57 7.87927 AU	retrograde	-4564 Sep 29 j 02:24	13°♊56'06	
direct	-4570 Nov 17 j 03:13	11°♊18'02	opposition	-4564 Dec 04 j 20:15	10°♊31'14	-0°48'11
	-4569 Jan 20 j 21:19	15°♊	min. Earth dist.	-4564 Dec 04 j 09:27	10°♊33'25	8.31292 AU
evening set	-4569 Feb 28 j 23:13	19°♊40'26	direct	-4563 Feb 11 j 13:06	7°♊02'07	
			evening set	-4563 May 28 j 18:53	14°♊59'43	
conjunction	-4569 Mar 18 j 22:09	22°♊03'00 -2°22'58		-4563 May 28 j 19:50	15°♊	
minimum elong	-4569 Mar 18 j 22:09	22°♊03'00 2°23'06				
max. Earth dist.	-4569 Mar 19 j 10:33	22°♊07'08 9.86645 AU	conjunction	-4563 Jun 15 j 16:52	17°♊13'09	-0°22'26
morning rise	-4569 Apr 05 j 23:55	24°♊26'26	minimum elong	-4563 Jun 15 j 16:54	17°♊13'10	0°22'16
	-4569 May 23 j 20:02	0°♊	max. Earth dist.	-4563 Jun 16 j 05:28	17°♊17'05	10.38702 AU
retrograde	-4569 Jul 22 j 05:01	3°♊03'40	morning rise	-4563 Jul 03 j 10:29	19°♊25'10	
	-4569 Sep 21 j 12:41	30°♊	retrograde	-4563 Oct 11 j 23:17	26°♊57'29	
opposition	-4569 Sep 27 j 01:39	29°♊32'13 -2°59'25	opposition	-4563 Dec 18 j 01:03	23°♊34'25	-0°08'02
min. Earth dist.	-4569 Sep 26 j 14:57	29°♊34'28 7.86774 AU	min. Earth dist.	-4563 Dec 17 j 15:34	23°♊36'18	8.46063 AU
direct	-4569 Dec 01 j 23:50	26°♊02'59	direct	-4562 Feb 25 j 10:46	20°♊06'19	
	-4568 Feb 07 j 09:50	0°♊	asc. node	-4562 Mar 04 j 04:24	20°♊08'40	
evening set	-4568 Mar 15 j 15:53	4°♊28'34	evening set	-4562 Jun 11 j 11:09	27°♊53'58	
				-4562 Jun 28 j 15:47	0°♊	
conjunction	-4568 Apr 02 j 17:23	6°♊51'36 -2°20'47				
minimum elong	-4568 Apr 02 j 17:25	6°♊51'37 2°20'53	conjunction	-4562 Jun 29 j 05:04	0°♊04'05	0°09'55
max. Earth dist.	-4568 Apr 03 j 09:10	6°♊56'51 9.87439 AU	minimum elong	-4562 Jun 29 j 05:03	0°♊04'04	0°10'05
morning rise	-4568 Apr 20 j 20:19	9°♊15'03	behind sun begin	-4562 Jun 28 j 23:17	0°♊02'19	
retrograde	-4568 Aug 05 j 03:56	17°♊47'04	behind sun end	-4562 Jun 29 j 10:48	0°♊05'49	
opposition	-4568 Oct 10 j 17:15	14°♊16'15 -2°50'42	max. Earth dist.	-4562 Jun 29 j 14:59	0°♊07'07	10.53666 AU
min. Earth dist.	-4568 Oct 10 j 04:26	14°♊18'56 7.89484 AU	morning rise	-4562 Jul 16 j 17:56	2°♊12'38	
direct	-4568 Dec 15 j 22:43	10°♊46'20	retrograde	-4562 Oct 24 j 10:12	9°♊33'16	
evening set	-4567 Mar 31 j 07:48	19°♊11'39	opposition	-4562 Dec 30 j 21:40	6°♊11'58	0°31'07
			min. Earth dist.	-4562 Dec 30 j 14:05	6°♊13'27	8.61008 AU
conjunction	-4567 Apr 18 j 11:01	21°♊34'16 -2°09'28	direct	-4561 Mar 10 j 23:33	2°♊45'04	
minimum elong	-4567 Apr 18 j 11:05	21°♊34'17 2°09'30	evening set	-4561 Jun 24 j 15:25	10°♊22'57	
max. Earth dist.	-4567 Apr 19 j 05:01	21°♊40'12 9.92068 AU				
morning rise	-4567 May 06 j 14:11	23°♊56'50	conjunction	-4561 Jul 12 j 04:31	12°♊29'42	0°40'46
	-4567 Jun 29 j 16:40	0°♏	minimum elong	-4561 Jul 12 j 04:29	12°♊29'42	0°40'57
retrograde	-4567 Aug 19 j 19:31	2°♏19'58	max. Earth dist.	-4561 Jul 12 j 11:46	12°♊31'54	10.68408 AU
	-4567 Oct 10 j 23:57	30°♏	morning rise	-4561 Jul 29 j 12:10	14°♊34'51	
opposition	-4567 Oct 25 j 04:37	28°♏50'12 -2°31'03	retrograde	-4561 Nov 05 j 14:57	21°♊45'23	
min. Earth dist.	-4567 Oct 24 j 14:51	28°♏53'05 7.95849 AU	opposition	-4560 Jan 12 j 11:19	18°♊25'45	1°07'31
direct	-4567 Dec 30 j 21:09	25°♏19'58	min. Earth dist.	-4560 Jan 12 j 06:26	18°♊26'42	8.75416 AU
	-4566 Mar 16 j 02:22	0°♏	direct	-4560 Mar 23 j 01:53	15°♊00'12	
evening set	-4566 Apr 15 j 18:43	3°♏41'41	evening set	-4560 Jul 06 j 08:18	22°♊28'53	
conjunction	-4566 May 03 j 22:34	6°♏03'00 -1°50'05	conjunction	-4560 Jul 23 j 16:07	24°♊32'26	1°08'58
minimum elong	-4566 May 03 j 22:38	6°♏03'02 1°50'04	minimum elong	-4560 Jul 23 j 16:04	24°♊32'25	1°09'11
max. Earth dist.	-4566 May 04 j 17:15	6°♏09'06 10.00173 AU	max. Earth dist.	-4560 Jul 23 j 20:09	24°♊33'38	10.82263 AU
morning rise	-4566 May 22 j 00:58	8°♏23'50	morning rise	-4560 Aug 09 j 18:29	26°♊34'23	
retrograde	-4566 Sep 03 j 01:16	16°♏35'27		-4560 Sep 10 j 05:34	0°♏	
opposition	-4566 Nov 08 j 09:42	13°♏07'05 -2°02'20	retrograde	-4560 Nov 16 j 11:18	3°♏36'36	
min. Earth dist.	-4566 Nov 07 j 20:11	13°♏09'53 8.05399 AU	opposition	-4559 Jan 23 j 18:47	0°♏18'26	1°39'51
direct	-4565 Jan 14 j 16:56	9°♏36'52	min. Earth dist.	-4559 Jan 23 j 17:18	0°♏18'43	8.88673 AU
evening set	-4565 Apr 30 j 21:45	17°♏52'16		-4559 Jan 27 j 19:47	30°♏	

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Attention, astronomical year style is used: The year -4559 in astronomical counting style is the year 4560 BCE in historical counting style.

direct	-4559 Apr 04 j 19:42	26° Π 54'15		evening set	-4553 Sep 23 j 15:17	10° Π 57'42	
	-4559 Jun 08 j 02:30	0° \mathfrak{C}					
evening set	-4559 Jul 18 j 14:57	4° \mathfrak{C} 14'39		conjunction	-4553 Oct 09 j 23:48	12° Π 51'07	2°19'37
				minimum elong	-4553 Oct 09 j 23:50	12° Π 51'08	2°19'42
conjunction	-4559 Aug 04 j 17:24	6° \mathfrak{C} 15'15	1°33'34	max. Earth dist.	-4553 Oct 09 j 09:00	12° Π 46'48	11.18965 AU
minimum elong	-4559 Aug 04 j 17:21	6° \mathfrak{C} 15'14	1°33'48	morning rise	-4553 Oct 26 j 07:31	14° Π 44'25	
max. Earth dist.	-4559 Aug 04 j 17:11	6° \mathfrak{C} 15'11	10.94677 AU	retrograde	-4552 Feb 03 j 20:56	21° Π 38'49	
morning rise	-4559 Aug 21 j 14:55	8° \mathfrak{C} 14'25		opposition	-4552 Apr 14 j 17:04	18° Π 22'03	2°44'24
retrograde	-4559 Nov 28 j 01:30	15° \mathfrak{C} 10'09		min. Earth dist.	-4552 Apr 15 j 06:36	18° Π 19'35	9.16576 AU
opposition	-4558 Feb 04 j 20:55	11° \mathfrak{C} 53'10	2°07'13	direct	-4552 Jun 24 j 21:43	15° Π 04'03	
min. Earth dist.	-4558 Feb 04 j 22:13	11° \mathfrak{C} 52'55	9.00253 AU	evening set	-4552 Oct 03 j 16:04	22° Π 00'22	
direct	-4558 Apr 17 j 07:31	8° \mathfrak{C} 30'19		max. Earth dist.	-4552 Oct 19 j 08:34	23° Π 49'51	11.13121 AU
evening set	-4558 Jul 30 j 12:33	15° \mathfrak{C} 43'29					
				conjunction	-4552 Oct 20 j 00:56	23° Π 54'39	2°08'59
conjunction	-4558 Aug 16 j 10:04	17° \mathfrak{C} 41'34	1°53'52	minimum elong	-4552 Oct 20 j 00:58	23° Π 54'39	2°09'02
minimum elong	-4558 Aug 16 j 10:01	17° \mathfrak{C} 41'33	1°54'07	morning rise	-4552 Nov 05 j 09:58	25° Π 49'04	
max. Earth dist.	-4558 Aug 16 j 06:25	17° \mathfrak{C} 40'29	11.05181 AU		-4552 Dec 15 j 22:04	0° \mathfrak{A}	
morning rise	-4558 Sep 02 j 03:11	19° \mathfrak{C} 38'21		retrograde	-4551 Feb 14 j 18:05	2° \mathfrak{A} 49'17	
retrograde	-4558 Dec 09 j 13:42	26° \mathfrak{C} 29'29			-4551 Apr 20 j 04:42	30° \mathfrak{R} Π	
opposition	-4557 Feb 16 j 19:07	23° \mathfrak{C} 13'22	2°28'59	opposition	-4551 Apr 26 j 17:01	29° Π 31'26	2°28'30
min. Earth dist.	-4557 Feb 16 j 22:32	23° \mathfrak{C} 12'44	9.09711 AU	min. Earth dist.	-4551 Apr 27 j 07:49	29° Π 28'43	9.09315 AU
direct	-4557 Apr 29 j 11:58	19° \mathfrak{C} 51'49		direct	-4551 Jul 06 j 11:36	26° Π 13'25	
evening set	-4557 Aug 11 j 02:35	26° \mathfrak{C} 58'52			-4551 Sep 15 j 04:25	0° \mathfrak{A}	
				evening set	-4551 Oct 14 j 19:49	3° \mathfrak{A} 12'00	
conjunction	-4557 Aug 27 j 19:49	28° \mathfrak{C} 54'54	2°09'25				
minimum elong	-4557 Aug 27 j 19:47	28° \mathfrak{C} 54'53	2°09'38	conjunction	-4551 Oct 31 j 05:54	5° \mathfrak{A} 07'41	1°53'18
max. Earth dist.	-4557 Aug 27 j 13:58	28° \mathfrak{C} 53'12	11.13389 AU	minimum elong	-4551 Oct 31 j 05:57	5° \mathfrak{A} 07'42	1°53'18
	-4557 Sep 06 j 03:40	0° \mathfrak{O}		max. Earth dist.	-4551 Oct 30 j 12:05	5° \mathfrak{A} 02'25	11.04627 AU
morning rise	-4557 Sep 13 j 09:00	0° \mathfrak{O} 49'49		morning rise	-4551 Nov 16 j 17:20	7° \mathfrak{A} 03'49	
retrograde	-4557 Dec 20 j 23:18	7° \mathfrak{O} 38'09		retrograde	-4550 Feb 26 j 20:54	14° \mathfrak{A} 11'24	
opposition	-4556 Feb 28 j 14:39	4° \mathfrak{O} 22'35	2°44'44	opposition	-4550 May 08 j 21:16	10° \mathfrak{A} 52'12	2°06'35
min. Earth dist.	-4556 Feb 28 j 20:24	4° \mathfrak{O} 21'32	9.16716 AU	min. Earth dist.	-4550 May 09 j 12:48	10° \mathfrak{A} 49'20	8.99548 AU
direct	-4556 May 10 j 10:20	1° \mathfrak{O} 02'10		direct	-4550 Jul 18 j 03:56	7° \mathfrak{A} 33'54	
evening set	-4556 Aug 21 j 10:43	8° \mathfrak{O} 04'22		evening set	-4550 Oct 26 j 04:08	14° \mathfrak{A} 36'14	
conjunction	-4556 Sep 07 j 00:20	9° \mathfrak{O} 58'52	2°19'53	conjunction	-4550 Nov 11 j 16:27	16° \mathfrak{A} 33'51	1°32'52
minimum elong	-4556 Sep 07 j 00:18	9° \mathfrak{O} 58'52	2°20'04	minimum elong	-4550 Nov 11 j 16:30	16° \mathfrak{A} 33'52	1°32'48
max. Earth dist.	-4556 Sep 06 j 15:55	9° \mathfrak{O} 56'26	11.19030 AU	max. Earth dist.	-4550 Nov 10 j 23:18	16° \mathfrak{A} 28'44	10.93813 AU
morning rise	-4556 Sep 23 j 10:33	11° \mathfrak{O} 52'29		morning rise	-4550 Nov 28 j 06:59	18° \mathfrak{A} 32'13	
	-4556 Oct 22 j 21:01	15° \mathfrak{O}		retrograde	-4549 Mar 11 j 07:21	25° \mathfrak{A} 48'41	
retrograde	-4556 Dec 31 j 08:53	18° \mathfrak{O} 39'45		opposition	-4549 May 21 j 07:12	22° \mathfrak{A} 27'51	1°39'03
opposition	-4555 Mar 11 j 08:41	15° \mathfrak{O} 24'25	2°54'14	min. Earth dist.	-4549 May 21 j 21:40	22° \mathfrak{A} 25'09	8.87656 AU
min. Earth dist.	-4555 Mar 11 j 17:27	15° \mathfrak{O} 22'49	9.21042 AU	direct	-4549 Jul 30 j 01:10	19° \mathfrak{A} 09'01	
	-4555 Mar 16 j 22:24	15° \mathfrak{R} \mathfrak{O}		evening set	-4549 Nov 06 j 18:52	26° \mathfrak{A} 16'34	
direct	-4555 May 22 j 04:06	12° \mathfrak{O} 04'55					
	-4555 Jul 23 j 22:03	15° \mathfrak{O}		conjunction	-4549 Nov 23 j 10:13	28° \mathfrak{A} 16'37	1°08'10
evening set	-4555 Sep 01 j 14:23	19° \mathfrak{O} 03'32		minimum elong	-4549 Nov 23 j 10:15	28° \mathfrak{A} 16'38	1°08'03
				max. Earth dist.	-4549 Nov 22 j 18:45	28° \mathfrak{A} 11'56	10.81090 AU
conjunction	-4555 Sep 18 j 01:11	20° \mathfrak{O} 57'05	2°25'07		-4549 Dec 07 j 17:04	0° \mathfrak{M}	
minimum elong	-4555 Sep 18 j 01:11	20° \mathfrak{O} 57'05	2°25'16	morning rise	-4549 Dec 10 j 04:27	0° \mathfrak{M} .17'39	
max. Earth dist.	-4555 Sep 17 j 13:29	20° \mathfrak{O} 53'42	11.21920 AU	retrograde	-4548 Mar 23 j 05:15	7° \mathfrak{M} .44'21	
morning rise	-4555 Oct 04 j 09:39	22° \mathfrak{O} 50'00		opposition	-4548 Jun 01 j 23:36	4° \mathfrak{M} .21'44	1°06'32
retrograde	-4554 Jan 11 j 16:33	29° \mathfrak{O} 37'55		min. Earth dist.	-4548 Jun 02 j 12:10	4° \mathfrak{M} .19'21	8.74103 AU
opposition	-4554 Mar 23 j 02:15	26° \mathfrak{O} 22'26	2°57'21	direct	-4548 Aug 10 j 03:21	1° \mathfrak{M} .02'09	
min. Earth dist.	-4554 Mar 23 j 13:30	26° \mathfrak{O} 20'23	9.22517 AU	evening set	-4548 Nov 17 j 18:22	8° \mathfrak{M} .16'23	
direct	-4554 Jun 02 j 18:58	23° \mathfrak{O} 03'39					
evening set	-4554 Sep 12 j 15:20	0° Π 00'04		conjunction	-4548 Dec 04 j 13:10	10° \mathfrak{M} .19'15	0°39'52
	-4554 Sep 12 j 15:05	0° Π		minimum elong	-4548 Dec 04 j 13:11	10° \mathfrak{M} .19'15	0°39'44
max. Earth dist.	-4554 Sep 28 j 10:31	1° Π 49'12	11.21921 AU	max. Earth dist.	-4548 Dec 03 j 23:08	10° \mathfrak{M} .14'56	10.66957 AU
				morning rise	-4548 Dec 21 j 11:43	12° \mathfrak{M} .23'22	
conjunction	-4554 Sep 29 j 00:25	1° Π 53'14	2°25'02		-4547 Jan 13 j 03:53	15° \mathfrak{M} .	
minimum elong	-4554 Sep 29 j 00:26	1° Π 53'15	2°25'08	retrograde	-4547 Apr 05 j 11:18	20° \mathfrak{M} .01'20	
morning rise	-4554 Oct 15 j 08:02	3° Π 46'02		opposition	-4547 Jun 14 j 23:04	16° \mathfrak{M} .36'52	0°29'59
retrograde	-4553 Jan 23 j 04:54	10° Π 36'20		min. Earth dist.	-4547 Jun 15 j 09:42	16° \mathfrak{M} .34'50	8.59446 AU
opposition	-4553 Apr 03 j 20:31	7° Π 20'22	2°54'04		-4547 Jul 06 j 22:27	15° \mathfrak{R} \mathfrak{M} .	
min. Earth dist.	-4553 Apr 04 j 09:01	7° Π 18'05	9.21030 AU	direct	-4547 Aug 22 j 10:13	13° \mathfrak{M} .16'18	
direct	-4553 Jun 14 j 09:48	4° Π 02'04			-4547 Oct 06 j 07:23	15° \mathfrak{M} .	

Attention, astronomical year style is used: The year -4547 in astronomical counting style is the year 4548 BCE in historical counting style.

evening set	-4547 Nov 30 j 04:10	20° \mathbb{M} 38'44		direct	-4541 Nov 11 j 02:54	5° \approx 11'13	
				evening set	-4540 Feb 22 j 14:32	13° \approx 31'45	
conjunction	-4547 Dec 17 j 02:45	22° \mathbb{M} 44'41	0°08'59		-4540 Mar 04 j 17:58	15° \approx	
minimum elong	-4547 Dec 17 j 02:45	22° \mathbb{M} 44'41	0°08'49				
behind sun begin	-4547 Dec 16 j 20:37	22° \mathbb{M} 42'47		conjunction	-4540 Mar 11 j 12:10	15° \approx 54'01	-2°20'58
behind sun end	-4547 Dec 17 j 08:52	22° \mathbb{M} 46'34		minimum elong	-4540 Mar 11 j 12:09	15° \approx 54'01	2°21'08
max. Earth dist.	-4547 Dec 16 j 14:14	22° \mathbb{M} 40'47	10.52012 AU	max. Earth dist.	-4540 Mar 12 j 00:11	15° \approx 58'01	9.86242 AU
morning rise	-4546 Jan 03 j 05:58	24° \mathbb{M} 52'07		morning rise	-4540 Mar 29 j 13:10	18° \approx 17'20	
	-4546 Feb 19 j 19:36	0° \mathbb{A}		retrograde	-4540 Jul 15 j 02:49	26° \approx 56'05	
desc. node	-4546 Apr 01 j 10:55	2° \mathbb{A} 26'26		opposition	-4540 Sep 20 j 02:39	23° \approx 24'05	-2°59'33
retrograde	-4546 Apr 19 j 02:46	2° \mathbb{A} 42'11		min. Earth dist.	-4540 Sep 19 j 16:05	23° \approx 26'18	7.85707 AU
	-4546 Jun 18 j 17:54	30° \mathbb{M}		direct	-4540 Nov 24 j 21:42	19° \approx 54'55	
opposition	-4546 Jun 28 j 06:31	29° \mathbb{M} 15'52	-0°09'18	evening set	-4539 Mar 09 j 06:23	28° \approx 19'59	
min. Earth dist.	-4546 Jun 28 j 15:15	29° \mathbb{M} 14'10	8.44331 AU		-4539 Mar 21 j 21:28	0° \mathbb{H}	
direct	-4546 Sep 04 j 02:32	25° \mathbb{M} 54'08					
	-4546 Nov 13 j 11:55	0° \mathbb{A}		conjunction	-4539 Mar 27 j 06:43	0° \mathbb{H} 43'02	-2°22'52
evening set	-4546 Dec 13 j 01:44	3° \mathbb{A} 26'01		minimum elong	-4539 Mar 27 j 06:44	0° \mathbb{H} 43'02	2°22'59
				max. Earth dist.	-4539 Mar 27 j 21:50	0° \mathbb{H} 48'04	9.85709 AU
conjunction	-4546 Dec 30 j 04:23	5° \mathbb{A} 35'13	-0°23'22	morning rise	-4539 Apr 14 j 09:18	3° \mathbb{H} 06'44	
minimum elong	-4546 Dec 30 j 04:22	5° \mathbb{A} 35'13	0°23'33	retrograde	-4539 Jul 30 j 04:40	11° \mathbb{H} 41'58	
max. Earth dist.	-4546 Dec 29 j 18:58	5° \mathbb{A} 32'15	10.36931 AU	opposition	-4539 Oct 04 j 19:52	8° \mathbb{H} 10'36	-2°55'53
morning rise	-4545 Jan 16 j 12:15	7° \mathbb{A} 46'06		min. Earth dist.	-4539 Oct 04 j 07:35	8° \mathbb{H} 13'11	7.87138 AU
retrograde	-4545 May 03 j 04:52	15° \mathbb{A} 48'33		direct	-4539 Dec 09 j 20:53	4° \mathbb{H} 40'47	
opposition	-4545 Jul 11 j 22:05	12° \mathbb{A} 20'29	-0°49'33	evening set	-4538 Mar 24 j 23:21	13° \mathbb{H} 07'01	
min. Earth dist.	-4545 Jul 12 j 04:04	12° \mathbb{A} 19'18	8.29482 AU				
direct	-4545 Sep 17 j 04:04	8° \mathbb{A} 57'28		conjunction	-4538 Apr 12 j 01:46	15° \mathbb{H} 29'59	-2°15'23
evening set	-4545 Dec 26 j 12:30	16° \mathbb{A} 39'43		minimum elong	-4538 Apr 12 j 01:49	15° \mathbb{H} 30'00	2°15'27
				max. Earth dist.	-4538 Apr 12 j 19:06	15° \mathbb{H} 35'44	9.89108 AU
conjunction	-4544 Jan 12 j 19:24	18° \mathbb{A} 52'14	-0°55'22	morning rise	-4538 Apr 30 j 05:06	17° \mathbb{H} 53'09	
minimum elong	-4544 Jan 12 j 19:22	18° \mathbb{A} 52'13	0°55'35	retrograde	-4538 Aug 13 j 23:29	26° \mathbb{H} 20'54	
max. Earth dist.	-4544 Jan 12 j 14:10	18° \mathbb{A} 50'33	10.22463 AU	opposition	-4538 Oct 19 j 09:42	22° \mathbb{H} 50'37	-2°40'42
morning rise	-4544 Jan 30 j 07:38	21° \mathbb{A} 06'29		min. Earth dist.	-4538 Oct 18 j 20:09	22° \mathbb{H} 53'27	7.92381 AU
retrograde	-4544 May 16 j 17:06	29° \mathbb{A} 20'50		direct	-4538 Dec 24 j 20:59	19° \mathbb{H} 20'32	
opposition	-4544 Jul 24 j 21:20	25° \mathbb{A} 51'13	-1°28'31	evening set	-4537 Apr 09 j 13:17	27° \mathbb{H} 44'27	
min. Earth dist.	-4544 Jul 24 j 23:51	25° \mathbb{A} 50'42	8.15676 AU		-4537 Apr 26 j 21:10	0° \mathbb{Y}	
direct	-4544 Sep 29 j 14:01	22° \mathbb{A} 26'50					
	-4543 Jan 05 j 22:11	0° \mathbb{Z}		conjunction	-4537 Apr 27 j 16:55	0° \mathbb{Y} 06'29	-1°59'15
evening set	-4543 Jan 08 j 12:59	0° \mathbb{Z} 19'57		minimum elong	-4537 Apr 27 j 16:59	0° \mathbb{Y} 06'30	1°59'16
				max. Earth dist.	-4537 Apr 28 j 11:31	0° \mathbb{Y} 12'35	9.96199 AU
conjunction	-4543 Jan 26 j 00:02	2° \mathbb{Z} 35'35	-1°25'12	morning rise	-4537 May 15 j 20:00	2° \mathbb{Y} 28'14	
minimum elong	-4543 Jan 25 j 23:58	2° \mathbb{Z} 35'34	1°25'25	retrograde	-4537 Aug 28 j 09:06	10° \mathbb{Y} 45'20	
max. Earth dist.	-4543 Jan 25 j 23:29	2° \mathbb{Z} 35'24	10.09403 AU	opposition	-4537 Nov 02 j 18:01	7° \mathbb{Y} 16'31	-2°15'32
morning rise	-4543 Feb 12 j 16:13	4° \mathbb{Z} 52'57		min. Earth dist.	-4537 Nov 02 j 03:40	7° \mathbb{Y} 19'30	8.01057 AU
retrograde	-4543 May 31 j 13:20	13° \mathbb{Z} 17'52		direct	-4536 Jan 08 j 19:05	3° \mathbb{Y} 46'30	
opposition	-4543 Aug 08 j 03:48	9° \mathbb{Z} 46'59	-2°03'36	evening set	-4536 Apr 23 j 20:37	12° \mathbb{Y} 05'06	
min. Earth dist.	-4543 Aug 08 j 02:19	9° \mathbb{Z} 47'17	8.03700 AU				
direct	-4543 Oct 13 j 09:55	6° \mathbb{Z} 21'15		conjunction	-4536 May 12 j 00:15	14° \mathbb{Y} 25'20	-1°36'00
evening set	-4542 Jan 23 j 02:37	14° \mathbb{Z} 24'57		minimum elong	-4536 May 12 j 00:19	14° \mathbb{Y} 25'21	1°35'56
				max. Earth dist.	-4536 May 12 j 19:06	14° \mathbb{Y} 31'27	10.06458 AU
conjunction	-4542 Feb 09 j 17:29	16° \mathbb{Z} 43'21	-1°50'44	morning rise	-4536 May 30 j 01:51	16° \mathbb{Y} 44'51	
minimum elong	-4542 Feb 09 j 17:26	16° \mathbb{Z} 43'20	1°50'57	retrograde	-4536 Sep 10 j 08:12	24° \mathbb{Y} 49'17	
max. Earth dist.	-4542 Feb 09 j 21:30	16° \mathbb{Z} 44'41	9.98547 AU	opposition	-4536 Nov 15 j 19:10	21° \mathbb{Y} 22'11	-1°42'44
morning rise	-4542 Feb 27 j 13:09	19° \mathbb{Z} 03'22		min. Earth dist.	-4536 Nov 15 j 04:49	21° \mathbb{Y} 25'08	8.12561 AU
retrograde	-4542 Jun 15 j 15:41	27° \mathbb{Z} 36'30		direct	-4535 Jan 22 j 11:36	17° \mathbb{Y} 52'35	
opposition	-4542 Aug 22 j 16:11	24° \mathbb{Z} 04'45	-2°32'03	evening set	-4535 May 08 j 18:21	26° \mathbb{Y} 03'26	
min. Earth dist.	-4542 Aug 22 j 10:56	24° \mathbb{Z} 05'50	7.94312 AU				
direct	-4542 Oct 27 j 14:41	20° \mathbb{Z} 37'44		conjunction	-4535 May 26 j 20:39	28° \mathbb{Y} 21'12	-1°07'35
evening set	-4541 Feb 07 j 04:03	28° \mathbb{Z} 50'52		minimum elong	-4535 May 26 j 20:42	28° \mathbb{Y} 21'13	1°07'29
	-4541 Feb 15 j 22:42	0° \approx		max. Earth dist.	-4535 May 27 j 14:38	28° \mathbb{Y} 26'56	10.19174 AU
					-4535 Jun 08 j 19:04	0° \mathbb{B}	
conjunction	-4541 Feb 24 j 22:27	1° \approx 11'32	-2°09'54	morning rise	-4535 Jun 13 j 19:35	0° \mathbb{B} 37'51	
minimum elong	-4541 Feb 24 j 22:25	1° \approx 11'31	2°10'06	retrograde	-4535 Sep 23 j 21:50	8° \mathbb{B} 28'45	
max. Earth dist.	-4541 Feb 25 j 06:41	1° \approx 14'16	9.90635 AU	opposition	-4535 Nov 29 j 12:15	5° \mathbb{B} 03'30	-1°05'01
morning rise	-4541 Mar 14 j 21:05	3° \approx 33'35		min. Earth dist.	-4535 Nov 28 j 22:59	5° \mathbb{B} 06'12	8.26125 AU
retrograde	-4541 Jun 30 j 21:15	12° \approx 11'34		direct	-4534 Feb 05 j 20:34	1° \mathbb{B} 34'36	
opposition	-4541 Sep 06 j 08:32	8° \approx 39'26	-2°51'20	evening set	-4534 May 23 j 04:28	9° \mathbb{B} 36'08	
min. Earth dist.	-4541 Sep 06 j 00:18	8° \approx 41'09	7.88165 AU				

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Attention, astronomical year style is used: The year -4534 in astronomical counting style is the year 4535 BCE in historical counting style.

conjunction	-4534 Jun 10 j 04:09	11°♄50'54	-0°36'11	direct	-4528 Apr 23 j 17:38	15°♄20'55	
minimum elong	-4534 Jun 10 j 04:11	11°♄50'55	0°36'02	evening set	-4528 Aug 05 j 16:10	22°♄30'43	
max. Earth dist.	-4534 Jun 10 j 20:01	11°♄55'53	10.33495 AU				
morning rise	-4534 Jun 27 j 23:26	14°♄04'17		conjunction	-4528 Aug 22 j 11:10	24°♄27'38	2°03'26
	-4534 Jul 05 j 14:48	15°♄		minimum elong	-4528 Aug 22 j 11:08	24°♄27'38	2°03'40
retrograde	-4534 Oct 07 j 00:01	21°♄41'49		max. Earth dist.	-4528 Aug 22 j 04:48	24°♄25'47	11.09638 AU
opposition	-4534 Dec 12 j 20:50	18°♄18'28	-0°25'05	morning rise	-4528 Sep 08 j 01:58	26°♄23'23	
min. Earth dist.	-4534 Dec 12 j 10:06	18°♄20'36	8.40865 AU		-4528 Oct 12 j 09:45	0°♄	
	-4533 Feb 06 j 08:56	15°♄♄		retrograde	-4528 Dec 15 j 13:32	3°♄12'58	
direct	-4533 Feb 19 j 21:57	14°♄50'28			-4527 Feb 22 j 09:40	30°♄♄	
	-4533 Mar 05 j 12:29	15°♄		opposition	-4527 Feb 23 j 01:16	29°♄57'07	2°38'51
evening set	-4533 Jun 06 j 02:29	22°♄42'05		min. Earth dist.	-4527 Feb 23 j 08:01	29°♄55'52	9.13264 AU
				direct	-4527 May 05 j 19:31	26°♄36'00	
conjunction	-4533 Jun 23 j 22:17	24°♄53'32	-0°03'50		-4527 Jul 12 j 23:11	0°♄	
minimum elong	-4533 Jun 23 j 22:18	24°♄53'32	0°03'40	evening set	-4527 Aug 17 j 02:48	3°♄40'30	
behind sun begin	-4533 Jun 23 j 15:08	24°♄51'20					
behind sun end	-4533 Jun 24 j 05:28	24°♄55'44		conjunction	-4527 Sep 02 j 17:49	5°♄35'41	2°16'06
max. Earth dist.	-4533 Jun 24 j 10:22	24°♄57'15	10.48497 AU	minimum elong	-4527 Sep 02 j 17:47	5°♄35'41	2°16'18
morning rise	-4533 Jul 11 j 13:08	27°♄03'27		max. Earth dist.	-4527 Sep 02 j 08:17	5°♄32'55	11.15936 AU
	-4533 Aug 06 j 03:41	0°♄♄		morning rise	-4527 Sep 19 j 05:26	7°♄29'55	
asc. node	-4533 Aug 07 j 05:31	0°♄♄06'52		retrograde	-4527 Dec 26 j 23:00	14°♄17'46	
retrograde	-4533 Oct 19 j 14:56	4°♄♄28'39		opposition	-4526 Mar 06 j 19:39	11°♄02'04	2°51'03
opposition	-4533 Dec 25 j 21:04	1°♄♄07'09	0°14'43	min. Earth dist.	-4526 Mar 07 j 04:09	11°♄00'31	9.18308 AU
min. Earth dist.	-4533 Dec 25 j 13:31	1°♄♄08'38	8.55879 AU	direct	-4526 May 17 j 16:56	7°♄41'48	
	-4532 Jan 09 j 08:40	30°♄♄		evening set	-4526 Aug 28 j 08:12	14°♄42'15	
direct	-4532 Mar 04 j 14:51	27°♄40'14			-4526 Aug 30 j 22:35	15°♄	
	-4532 Apr 27 j 18:49	0°♄♄					
evening set	-4532 Jun 18 j 12:10	5°♄♄22'02		conjunction	-4526 Sep 13 j 20:16	16°♄36'17	2°23'35
				minimum elong	-4526 Sep 13 j 20:15	16°♄36'17	2°23'45
conjunction	-4532 Jul 06 j 03:15	7°♄♄30'06	0°27'54	max. Earth dist.	-4526 Sep 13 j 09:14	16°♄33'05	11.19599 AU
minimum elong	-4532 Jul 06 j 03:13	7°♄♄30'06	0°28'05	morning rise	-4526 Sep 30 j 05:26	18°♄29'34	
max. Earth dist.	-4532 Jul 06 j 10:37	7°♄♄32'21	10.63332 AU	retrograde	-4525 Jan 07 j 07:49	25°♄17'24	
morning rise	-4532 Jul 23 j 13:11	9°♄♄36'36		opposition	-4525 Mar 18 j 13:17	22°♄01'34	2°56'55
retrograde	-4532 Oct 30 j 21:49	16°♄♄51'06		min. Earth dist.	-4525 Mar 18 j 23:27	21°♄59'43	9.20628 AU
opposition	-4531 Jan 06 j 13:50	13°♄♄31'17	0°52'27	direct	-4525 May 29 j 08:16	18°♄42'01	
min. Earth dist.	-4531 Jan 06 j 09:01	13°♄♄32'13	8.70402 AU	evening set	-4525 Sep 08 j 10:07	25°♄39'43	
direct	-4531 Mar 17 j 22:20	10°♄♄05'37					
evening set	-4531 Jul 01 j 09:55	17°♄♄38'04		conjunction	-4525 Sep 24 j 20:01	27°♄33'09	2°25'46
				minimum elong	-4525 Sep 24 j 20:01	27°♄33'09	2°25'53
conjunction	-4531 Jul 18 j 19:55	19°♄♄42'54	0°57'22	max. Earth dist.	-4525 Sep 24 j 07:13	27°♄29'26	11.20517 AU
minimum elong	-4531 Jul 18 j 19:52	19°♄♄42'53	0°57'34	morning rise	-4525 Oct 11 j 03:49	29°♄26'04	
max. Earth dist.	-4531 Jul 18 j 23:23	19°♄♄43'57	10.77348 AU		-4525 Oct 16 j 04:12	0°♄♄	
morning rise	-4531 Aug 05 j 00:42	21°♄♄46'10		retrograde	-4524 Jan 18 j 18:57	6°♄♄15'38	
retrograde	-4531 Nov 11 j 21:01	28°♄♄51'45		opposition	-4524 Mar 29 j 07:24	2°♄♄59'23	2°56'22
opposition	-4530 Jan 18 j 23:55	25°♄♄33'21	1°26'39	min. Earth dist.	-4524 Mar 29 j 19:38	2°♄♄57'09	9.20167 AU
min. Earth dist.	-4530 Jan 18 j 21:22	25°♄♄33'50	8.83855 AU		-4524 May 19 j 10:55	30°♄♄♄	
direct	-4530 Mar 30 j 20:59	22°♄♄08'57		direct	-4524 Jun 08 j 22:37	29°♄40'21	
evening set	-4530 Jul 13 j 21:06	29°♄♄32'51			-4524 Jun 29 j 05:47	0°♄♄	
	-4530 Jul 17 j 18:05	0°♄♄		evening set	-4524 Sep 18 j 10:25	6°♄♄36'41	
conjunction	-4530 Jul 31 j 01:57	1°♄♄34'40	1°23'37	conjunction	-4524 Oct 04 j 19:05	8°♄♄30'07	2°22'37
minimum elong	-4530 Jul 31 j 01:54	1°♄♄34'40	1°23'50	minimum elong	-4524 Oct 04 j 19:06	8°♄♄30'07	2°22'42
max. Earth dist.	-4530 Jul 31 j 02:29	1°♄♄34'50	10.90023 AU	max. Earth dist.	-4524 Oct 04 j 03:52	8°♄♄25'41	11.18684 AU
morning rise	-4530 Aug 17 j 01:33	3°♄♄35'00		morning rise	-4524 Oct 21 j 02:47	10°♄♄23'18	
retrograde	-4530 Nov 23 j 15:04	10°♄♄33'26		retrograde	-4523 Jan 29 j 07:39	17°♄♄16'13	
opposition	-4529 Jan 31 j 04:18	7°♄♄16'13	1°56'15	opposition	-4523 Apr 10 j 02:57	13°♄♄59'17	2°49'24
min. Earth dist.	-4529 Jan 31 j 04:39	7°♄♄16'08	8.95744 AU	min. Earth dist.	-4523 Apr 10 j 16:52	13°♄♄56'45	9.16952 AU
direct	-4529 Apr 12 j 11:39	3°♄♄53'00		direct	-4523 Jun 20 j 11:00	10°♄♄40'35	
evening set	-4529 Jul 25 j 22:48	11°♄♄09'20		evening set	-4523 Sep 29 j 10:40	17°♄♄37'00	
conjunction	-4529 Aug 11 j 22:34	13°♄♄08'29	1°45'49	conjunction	-4523 Oct 15 j 19:17	19°♄♄31'00	2°14'10
minimum elong	-4529 Aug 11 j 22:31	13°♄♄08'28	1°46'03	minimum elong	-4523 Oct 15 j 19:19	19°♄♄31'00	2°14'14
max. Earth dist.	-4529 Aug 11 j 20:00	13°♄♄07'44	11.00907 AU	max. Earth dist.	-4523 Oct 15 j 03:13	19°♄♄26'18	11.14151 AU
morning rise	-4529 Aug 28 j 17:22	15°♄♄06'16		morning rise	-4523 Nov 01 j 03:52	21°♄♄25'03	
retrograde	-4529 Dec 05 j 05:14	21°♄♄59'22		retrograde	-4522 Feb 10 j 01:58	28°♄♄23'01	
opposition	-4528 Feb 12 j 04:28	18°♄♄43'00	2°20'29	opposition	-4522 Apr 22 j 01:14	25°♄♄05'07	2°36'05
min. Earth dist.	-4528 Feb 12 j 08:15	18°♄♄42'18	9.05658 AU	min. Earth dist.	-4522 Apr 22 j 15:21	25°♄♄02'32	9.11061 AU

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Attention, astronomical year style is used: The year -4522 in astronomical counting style is the year 4523 BCE in historical counting style.

direct	-4522 Jul 02 j 01:34	21° $\overline{\text{m}}$ 46'35		morning rise	-4516 Jan 11 j 07:07	2° $\overline{\text{x}}$ 34'17	
evening set	-4522 Oct 10 j 12:48	28° $\overline{\text{m}}$ 44'30		retrograde	-4516 Apr 26 j 16:40	10° $\overline{\text{x}}$ 31'15	
	-4522 Oct 21 j 07:50	0° $\underline{\text{a}}$		opposition	-4516 Jul 05 j 13:52	7° $\overline{\text{x}}$ 04'21	-0°32'41
				min. Earth dist.	-4516 Jul 05 j 19:11	7° $\overline{\text{x}}$ 03'18	8.36921 AU
conjunction	-4522 Oct 26 j 22:26	0° $\underline{\text{a}}$ 39'40	2°00'34	direct	-4516 Sep 11 j 01:21	3° $\overline{\text{x}}$ 42'27	
minimum elong	-4522 Oct 26 j 22:28	0° $\underline{\text{a}}$ 39'40	2°00'35	evening set	-4516 Dec 20 j 05:54	11° $\overline{\text{x}}$ 19'50	
max. Earth dist.	-4522 Oct 26 j 06:42	0° $\underline{\text{a}}$ 35'01	11.07036 AU				
morning rise	-4522 Nov 12 j 08:42	2° $\underline{\text{a}}$ 35'07		conjunction	-4515 Jan 06 j 10:53	13° $\overline{\text{x}}$ 30'47	-0°42'06
retrograde	-4521 Feb 22 j 03:37	9° $\underline{\text{a}}$ 39'43		minimum elong	-4515 Jan 06 j 10:51	13° $\overline{\text{x}}$ 30'47	0°42'18
opposition	-4521 May 04 j 03:33	6° $\underline{\text{a}}$ 20'40	2°16'38	max. Earth dist.	-4515 Jan 06 j 05:05	13° $\overline{\text{x}}$ 28'56	10.29913 AU
min. Earth dist.	-4521 May 04 j 17:11	6° $\underline{\text{a}}$ 18'09	9.02676 AU	morning rise	-4515 Jan 23 j 21:05	15° $\overline{\text{x}}$ 43'27	
direct	-4521 Jul 13 j 16:32	3° $\underline{\text{a}}$ 02'07		retrograde	-4515 May 11 j 01:39	23° $\overline{\text{x}}$ 52'20	
evening set	-4521 Oct 21 j 18:56	10° $\underline{\text{a}}$ 02'59		opposition	-4515 Jul 19 j 09:50	20° $\overline{\text{x}}$ 23'55	-1°12'26
				min. Earth dist.	-4515 Jul 19 j 12:29	20° $\overline{\text{x}}$ 23'23	8.23003 AU
conjunction	-4521 Nov 07 j 06:20	11° $\underline{\text{a}}$ 59'50	1°42'04	direct	-4515 Sep 24 j 06:23	17° $\overline{\text{x}}$ 00'45	
minimum elong	-4521 Nov 07 j 06:23	11° $\underline{\text{a}}$ 59'51	1°42'03	evening set	-4514 Jan 03 j 00:33	24° $\overline{\text{x}}$ 48'39	
max. Earth dist.	-4521 Nov 06 j 14:34	11° $\underline{\text{a}}$ 55'08	10.97573 AU				
morning rise	-4521 Nov 23 j 19:23	13° $\underline{\text{a}}$ 57'17		conjunction	-4514 Jan 20 j 09:31	27° $\overline{\text{x}}$ 02'44	-1°13'04
retrograde	-4520 Mar 05 j 11:20	21° $\underline{\text{a}}$ 10'02		minimum elong	-4514 Jan 20 j 09:28	27° $\overline{\text{x}}$ 02'43	1°13'16
opposition	-4520 May 15 j 11:07	17° $\underline{\text{a}}$ 49'36	1°51'22	max. Earth dist.	-4514 Jan 20 j 06:47	27° $\overline{\text{x}}$ 01'50	10.16529 AU
min. Earth dist.	-4520 May 16 j 00:32	17° $\underline{\text{a}}$ 47'07	8.92091 AU	morning rise	-4514 Feb 06 j 23:59	29° $\overline{\text{x}}$ 18'34	
direct	-4520 Jul 24 j 10:09	14° $\underline{\text{a}}$ 30'48			-4514 Feb 12 j 11:40	0° $\overline{\text{z}}$	
evening set	-4520 Nov 01 j 06:52	21° $\underline{\text{a}}$ 36'11		retrograde	-4514 May 25 j 17:49	7° $\overline{\text{z}}$ 38'26	
				opposition	-4514 Aug 02 j 13:18	4° $\overline{\text{z}}$ 08'42	-1°49'24
conjunction	-4520 Nov 17 j 20:46	23° $\underline{\text{a}}$ 35'12	1°19'04	min. Earth dist.	-4514 Aug 02 j 13:23	4° $\overline{\text{z}}$ 08'41	8.10430 AU
minimum elong	-4520 Nov 17 j 20:49	23° $\underline{\text{a}}$ 35'13	1°18'59	direct	-4514 Oct 07 j 22:54	0° $\overline{\text{z}}$ 44'10	
max. Earth dist.	-4520 Nov 17 j 04:57	23° $\underline{\text{a}}$ 30'26	10.86095 AU	evening set	-4513 Jan 17 j 08:18	8° $\overline{\text{z}}$ 42'39	
morning rise	-4520 Dec 04 j 13:29	25° $\underline{\text{a}}$ 35'07					
	-4519 Jan 15 j 04:04	0° $\overline{\text{m}}$		conjunction	-4513 Feb 03 j 21:15	10° $\overline{\text{z}}$ 59'38	-1°40'37
retrograde	-4519 Mar 18 j 03:59	2° $\overline{\text{m}}$ 57'26		minimum elong	-4513 Feb 03 j 21:11	10° $\overline{\text{z}}$ 59'37	1°40'49
	-4519 May 22 j 14:06	30° $\overline{\text{r}}$ $\underline{\text{a}}$		max. Earth dist.	-4513 Feb 03 j 22:09	10° $\overline{\text{z}}$ 59'56	10.04809 AU
opposition	-4519 May 28 j 00:49	29° $\underline{\text{a}}$ 35'30	1°20'48	morning rise	-4513 Feb 21 j 15:29	13° $\overline{\text{z}}$ 18'19	
min. Earth dist.	-4519 May 28 j 13:46	29° $\underline{\text{a}}$ 33'04	8.79689 AU	retrograde	-4513 Jun 09 j 16:45	21° $\overline{\text{z}}$ 47'25	
direct	-4519 Aug 05 j 09:52	26° $\underline{\text{a}}$ 16'12		opposition	-4513 Aug 16 j 23:08	18° $\overline{\text{z}}$ 16'40	-2°20'54
	-4519 Oct 12 j 22:42	0° $\overline{\text{m}}$		min. Earth dist.	-4513 Aug 16 j 20:35	18° $\overline{\text{z}}$ 17'12	7.99877 AU
evening set	-4519 Nov 13 j 02:35	3° $\overline{\text{m}}$ 27'35		direct	-4513 Oct 22 j 00:25	14° $\overline{\text{z}}$ 50'48	
				evening set	-4512 Feb 01 j 04:37	22° $\overline{\text{z}}$ 59'19	
conjunction	-4519 Nov 29 j 19:44	5° $\overline{\text{m}}$ 29'13	0°52'09				
minimum elong	-4519 Nov 29 j 19:46	5° $\overline{\text{m}}$ 29'14	0°52'02	conjunction	-4512 Feb 18 j 21:22	25° $\overline{\text{z}}$ 18'50	-2°02'39
max. Earth dist.	-4519 Nov 29 j 05:28	5° $\overline{\text{m}}$ 24'52	10.73016 AU	minimum elong	-4512 Feb 18 j 21:19	25° $\overline{\text{z}}$ 18'49	2°02'51
morning rise	-4519 Dec 16 j 16:31	7° $\overline{\text{m}}$ 32'01		max. Earth dist.	-4512 Feb 19 j 02:32	25° $\overline{\text{z}}$ 20'32	9.95454 AU
	-4518 Mar 21 j 02:15	15° $\overline{\text{m}}$		morning rise	-4512 Mar 07 j 18:48	27° $\overline{\text{z}}$ 39'51	
retrograde	-4518 Mar 31 j 05:13	15° $\overline{\text{m}}$ 05'06			-4512 Mar 26 j 09:18	0° \approx	
	-4518 Apr 10 j 09:38	15° $\overline{\text{r}}$ $\overline{\text{m}}$		retrograde	-4512 Jun 23 j 20:28	6° \approx 15'26	
opposition	-4518 Jun 09 j 21:21	11° $\overline{\text{m}}$ 41'32	0°45'46	opposition	-4512 Aug 30 j 13:39	2° \approx 44'04	-2°44'17
min. Earth dist.	-4518 Jun 10 j 08:39	11° $\overline{\text{m}}$ 39'24	8.65953 AU	min. Earth dist.	-4512 Aug 30 j 07:58	2° \approx 45'15	7.92064 AU
direct	-4518 Aug 17 j 15:21	8° $\overline{\text{m}}$ 21'34			-4512 Oct 07 j 17:42	30° $\overline{\text{r}}$ $\overline{\text{z}}$	
	-4518 Nov 19 j 17:22	15° $\overline{\text{m}}$		direct	-4512 Nov 04 j 09:45	29° $\overline{\text{z}}$ 16'55	
evening set	-4518 Nov 25 j 07:53	15° $\overline{\text{m}}$ 40'25			-4512 Dec 01 j 19:05	0° \approx	
				evening set	-4511 Feb 15 j 11:19	7° \approx 33'57	
conjunction	-4518 Dec 12 j 04:50	17° $\overline{\text{m}}$ 44'59	0°22'11				
minimum elong	-4518 Dec 12 j 04:51	17° $\overline{\text{m}}$ 44'59	0°22'01	conjunction	-4511 Mar 05 j 07:33	9° \approx 55'24	-2°17'18
max. Earth dist.	-4518 Dec 11 j 17:31	17° $\overline{\text{m}}$ 41'29	10.58864 AU	minimum elong	-4511 Mar 05 j 07:32	9° \approx 55'24	2°17'28
morning rise	-4518 Dec 29 j 05:57	19° $\overline{\text{m}}$ 50'56		max. Earth dist.	-4511 Mar 05 j 17:08	9° \approx 58'36	9.89205 AU
retrograde	-4517 Apr 13 j 17:21	27° $\overline{\text{m}}$ 35'45		morning rise	-4511 Mar 23 j 07:31	12° \approx 18'04	
opposition	-4517 Jun 23 j 01:38	24° $\overline{\text{m}}$ 10'30	0°07'24		-4511 Apr 13 j 19:39	15° \approx	
min. Earth dist.	-4517 Jun 23 j 10:00	24° $\overline{\text{m}}$ 08'53	8.51477 AU	retrograde	-4511 Jul 09 j 01:58	20° \approx 56'26	
direct	-4517 Aug 30 j 04:47	20° $\overline{\text{m}}$ 49'40		opposition	-4511 Sep 14 j 07:04	17° \approx 24'51	-2°57'21
desc. node	-4517 Sep 01 j 14:37	20° $\overline{\text{m}}$ 49'58		min. Earth dist.	-4511 Sep 13 j 22:09	17° \approx 26'43	7.87646 AU
evening set	-4517 Dec 08 j 00:28	28° $\overline{\text{m}}$ 17'14			-4511 Oct 16 j 07:51	15° $\overline{\text{r}}$ \approx	
	-4517 Dec 21 j 18:04	0° $\overline{\text{x}}$		direct	-4511 Nov 19 j 01:41	13° \approx 56'34	
					-4511 Dec 22 j 12:03	15° \approx	
conjunction	-4517 Dec 25 j 01:26	0° $\overline{\text{x}}$ 24'58	-0°09'47	evening set	-4510 Mar 03 j 00:54	22° \approx 19'31	
minimum elong	-4517 Dec 25 j 01:26	0° $\overline{\text{x}}$ 24'58	0°09'58				
behind sun begin	-4517 Dec 24 j 19:39	0° $\overline{\text{x}}$ 23'10		conjunction	-4510 Mar 21 j 00:10	24° \approx 42'11	-2°23'09
behind sun end	-4517 Dec 25 j 07:12	0° $\overline{\text{x}}$ 26'46		minimum elong	-4510 Mar 21 j 00:11	24° \approx 42'11	2°23'17
max. Earth dist.	-4517 Dec 24 j 16:58	0° $\overline{\text{x}}$ 22'19	10.44266 AU	max. Earth dist.	-4510 Mar 21 j 13:50	24° \approx 46'44	9.86621 AU

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Attention, astronomical year style is used: The year -4510 in astronomical counting style is the year 4511 BCE in historical counting style.

morning rise	-4510 Apr 08 j 02:00	27° \approx 05'39	evening set	-4504 May 30 j 15:09	17° \approx 25'44	
	-4510 May 01 j 07:12	0° \approx				
retrograde	-4510 Jul 24 j 06:01	5° \approx 42'32	conjunction	-4504 Jun 17 j 12:46	19° \approx 38'44	-0°17'44
opposition	-4510 Sep 29 j 00:46	2° \approx 11'12 -2°58'47	minimum elong	-4504 Jun 17 j 12:47	19° \approx 38'45	0°17'35
min. Earth dist.	-4510 Sep 28 j 13:11	2° \approx 13'37 7.87014 AU	max. Earth dist.	-4504 Jun 18 j 01:23	19° \approx 42'40	10.40856 AU
	-4510 Oct 27 j 06:36	30° \approx	morning rise	-4504 Jul 05 j 05:49	21° \approx 50'17	
direct	-4510 Dec 03 j 22:59	28° \approx 41'58	retrograde	-4504 Oct 13 j 15:11	29° \approx 20'52	
	-4509 Jan 10 j 07:21	0° \approx	opposition	-4504 Dec 19 j 18:40	25° \approx 58'02	-0°02'16
evening set	-4509 Mar 18 j 17:41	7° \approx 07'40	min. Earth dist.	-4504 Dec 19 j 08:57	25° \approx 59'58	8.48234 AU
			asc. node	-4503 Jan 10 j 07:51	24° \approx 19'37	
conjunction	-4509 Apr 05 j 19:25	9° \approx 30'41 -2°19'38	direct	-4503 Feb 27 j 07:13	22° \approx 30'07	
minimum elong	-4509 Apr 05 j 19:27	9° \approx 30'41 2°19'43		-4503 Jun 10 j 23:27	0° \approx	
max. Earth dist.	-4509 Apr 06 j 12:06	9° \approx 36'13 9.87941 AU	evening set	-4503 Jun 13 j 05:47	0° \approx 16'16	
morning rise	-4509 Apr 23 j 22:21	11° \approx 54'04				
retrograde	-4509 Aug 08 j 04:16	20° \approx 25'12	conjunction	-4503 Jun 30 j 23:11	2° \approx 25'54	0°14'28
opposition	-4509 Oct 13 j 16:01	16° \approx 54'33 -2°48'26	minimum elong	-4503 Jun 30 j 23:10	2° \approx 25'53	0°14'39
min. Earth dist.	-4509 Oct 13 j 02:50	16° \approx 57'19 7.90233 AU	behind sun begin	-4503 Jun 30 j 20:15	2° \approx 25'00	
direct	-4509 Dec 18 j 22:28	13° \approx 24'41	behind sun end	-4503 Jul 01 j 02:05	2° \approx 26'46	
evening set	-4508 Apr 02 j 09:15	21° \approx 49'40	max. Earth dist.	-4503 Jul 01 j 09:30	2° \approx 29'03	10.55838 AU
			morning rise	-4503 Jul 18 j 11:20	4° \approx 33'57	
conjunction	-4508 Apr 20 j 12:34	24° \approx 12'09 -2°07'04	retrograde	-4503 Oct 26 j 02:28	11° \approx 53'02	
minimum elong	-4508 Apr 20 j 12:38	24° \approx 12'10 2°07'06	opposition	-4502 Jan 01 j 14:16	8° \approx 31'56	0°36'33
max. Earth dist.	-4508 Apr 21 j 06:52	24° \approx 18'10 9.93065 AU	min. Earth dist.	-4502 Jan 01 j 07:06	8° \approx 33'20	8.63156 AU
morning rise	-4508 May 08 j 15:43	26° \approx 34'32	direct	-4502 Mar 12 j 17:13	5° \approx 05'12	
	-4508 Jun 05 j 16:13	0° \approx	evening set	-4502 Jun 26 j 08:20	12° \approx 41'36	
retrograde	-4508 Aug 21 j 18:02	4° \approx 56'20				
opposition	-4508 Oct 27 j 02:45	1° \approx 26'49 -2°27'20	conjunction	-4502 Jul 13 j 20:48	14° \approx 47'53	0°45'00
min. Earth dist.	-4508 Oct 26 j 13:12	1° \approx 29'39 7.97060 AU	minimum elong	-4502 Jul 13 j 20:46	14° \approx 47'52	0°45'12
	-4508 Nov 14 j 00:24	30° \approx	max. Earth dist.	-4502 Jul 14 j 03:49	14° \approx 50'00	10.70501 AU
direct	-4507 Jan 01 j 21:07	27° \approx 56'39	morning rise	-4502 Jul 31 j 03:47	16° \approx 52'33	
	-4507 Feb 19 j 02:29	0° \approx	retrograde	-4502 Nov 07 j 04:45	24° \approx 01'41	
evening set	-4507 Apr 17 j 19:25	6° \approx 17'38	opposition	-4501 Jan 14 j 02:48	20° \approx 42'14	1°12'24
			min. Earth dist.	-4501 Jan 13 j 22:50	20° \approx 42'59	8.77450 AU
conjunction	-4507 May 05 j 23:10	8° \approx 38'42 -1°46'41	direct	-4501 Mar 25 j 18:10	17° \approx 16'47	
minimum elong	-4507 May 05 j 23:14	8° \approx 38'44 1°46'40	evening set	-4501 Jul 08 j 23:46	24° \approx 44'08	
max. Earth dist.	-4507 May 06 j 17:30	8° \approx 44'41 10.01599 AU				
morning rise	-4507 May 24 j 01:26	10° \approx 59'15	conjunction	-4501 Jul 26 j 06:50	26° \approx 47'13	1°12'43
retrograde	-4507 Sep 04 j 21:36	19° \approx 09'14	minimum elong	-4501 Jul 26 j 06:48	26° \approx 47'13	1°12'56
opposition	-4507 Nov 10 j 06:55	15° \approx 41'09 -1°57'33	max. Earth dist.	-4501 Jul 26 j 09:42	26° \approx 48'04	10.84195 AU
min. Earth dist.	-4507 Nov 09 j 17:48	15° \approx 43'52 8.07001 AU	morning rise	-4501 Aug 12 j 08:41	28° \approx 48'47	
direct	-4506 Jan 16 j 16:00	12° \approx 11'03		-4501 Aug 22 j 16:44	0° \approx	
evening set	-4506 May 02 j 21:08	20° \approx 25'21	retrograde	-4501 Nov 18 j 23:07	5° \approx 49'48	
			opposition	-4500 Jan 26 j 09:09	2° \approx 31'45	1°44'03
conjunction	-4506 May 21 j 00:05	22° \approx 44'17 -1°20'16	min. Earth dist.	-4500 Jan 26 j 08:10	2° \approx 31'56	8.90510 AU
minimum elong	-4506 May 21 j 00:09	22° \approx 44'18 1°20'11		-4500 Mar 04 j 02:15	30° \approx	
max. Earth dist.	-4506 May 21 j 17:09	22° \approx 49'46 10.12930 AU	direct	-4500 Apr 06 j 12:43	29° \approx 07'40	
morning rise	-4506 Jun 08 j 00:24	25° \approx 02'17		-4500 May 09 j 16:15	0° \approx	
	-4506 Jul 21 j 23:10	0° \approx	evening set	-4500 Jul 20 j 04:57	6° \approx 26'51	
retrograde	-4506 Sep 18 j 14:34	2° \approx 59'03				
	-4506 Nov 18 j 12:57	30° \approx	conjunction	-4500 Aug 06 j 06:46	8° \approx 27'04	1°36'43
opposition	-4506 Nov 24 j 03:10	29° \approx 32'39 -1°21'39	minimum elong	-4500 Aug 06 j 06:43	8° \approx 27'03	1°36'56
min. Earth dist.	-4506 Nov 23 j 14:56	29° \approx 35'09 8.19375 AU	max. Earth dist.	-4500 Aug 06 j 05:43	8° \approx 26'45	10.96379 AU
direct	-4505 Jan 31 j 04:41	26° \approx 02'58	morning rise	-4500 Aug 23 j 03:46	10° \approx 25'51	
	-4505 Apr 11 j 08:41	0° \approx	retrograde	-4500 Nov 29 j 14:06	17° \approx 20'40	
evening set	-4505 May 17 j 12:10	4° \approx 08'44	opposition	-4499 Feb 06 j 10:29	14° \approx 03'44	2°10'37
			min. Earth dist.	-4499 Feb 06 j 11:36	14° \approx 03'32	9.01824 AU
conjunction	-4505 Jun 04 j 13:03	6° \approx 24'54 -0°49'55	direct	-4499 Apr 18 j 22:41	10° \approx 41'01	
minimum elong	-4505 Jun 04 j 13:06	6° \approx 24'55 0°49'47	evening set	-4499 Aug 01 j 01:08	17° \approx 53'06	
max. Earth dist.	-4505 Jun 05 j 04:01	6° \approx 29'38 10.26289 AU				
morning rise	-4505 Jun 22 j 10:17	8° \approx 39'50	conjunction	-4499 Aug 17 j 22:13	19° \approx 50'51	1°56'20
	-4505 Aug 23 j 13:25	15° \approx	minimum elong	-4499 Aug 17 j 22:10	19° \approx 50'50	1°56'34
retrograde	-4505 Oct 01 j 20:04	16° \approx 23'10	max. Earth dist.	-4499 Aug 17 j 18:43	19° \approx 49'49	11.06593 AU
	-4505 Nov 10 j 17:45	15° \approx	morning rise	-4499 Sep 03 j 14:45	21° \approx 47'20	
opposition	-4505 Dec 07 j 15:06	12° \approx 58'33 -0°42'23	retrograde	-4499 Dec 11 j 01:18	28° \approx 37'47	
min. Earth dist.	-4505 Dec 07 j 03:57	13° \approx 00'48 8.33388 AU	opposition	-4498 Feb 18 j 08:00	25° \approx 21'42	2°31'31
direct	-4504 Feb 14 j 10:37	9° \approx 29'36	min. Earth dist.	-4498 Feb 18 j 11:33	25° \approx 21'03	9.10968 AU
	-4504 May 09 j 23:29	15° \approx	direct	-4498 May 01 j 01:22	22° \approx 00'15	

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Attention, astronomical year style is used: The year -4498 in astronomical counting style is the year 4499 BCE in historical counting style.

evening set	-4498 Aug 12 j 14:13	29° \mathfrak{D} 06'26			-4492 May 21 j 11:17	30° \mathfrak{R} \mathfrak{M}	
	-4498 Aug 20 j 08:50	0° \mathfrak{Q}		direct	-4492 Jul 07 j 22:27	28° \mathfrak{M} 19'50	
					-4492 Aug 22 j 17:54	0° \mathfrak{Q}	
conjunction	-4498 Aug 29 j 07:02	1° \mathfrak{Q} 02'12	2°11'09	evening set	-4492 Oct 16 j 06:06	5° \mathfrak{Q} 18'42	
minimum elong	-4498 Aug 29 j 07:00	1° \mathfrak{Q} 02'12	2°11'22				
max. Earth dist.	-4498 Aug 29 j 00:57	1° \mathfrak{Q} 00'26	11.14469 AU	conjunction	-4492 Nov 01 j 16:26	7° \mathfrak{Q} 14'33	1°50'40
morning rise	-4498 Sep 14 j 19:47	2° \mathfrak{Q} 56'53		minimum elong	-4492 Nov 01 j 16:28	7° \mathfrak{Q} 14'34	1°50'40
retrograde	-4498 Dec 22 j 10:59	9° \mathfrak{Q} 44'45		max. Earth dist.	-4492 Oct 31 j 22:41	7° \mathfrak{Q} 09'18	11.03753 AU
opposition	-4497 Mar 02 j 02:56	6° \mathfrak{Q} 29'14	2°46'23	morning rise	-4492 Nov 18 j 04:11	9° \mathfrak{Q} 10'54	
min. Earth dist.	-4497 Mar 02 j 09:40	6° \mathfrak{Q} 28'00	9.17629 AU	retrograde	-4491 Feb 28 j 09:10	16° \mathfrak{Q} 19'19	
direct	-4497 May 12 j 22:37	3° \mathfrak{Q} 08'54		opposition	-4491 May 10 j 10:09	13° \mathfrak{Q} 00'00	2°03'01
evening set	-4497 Aug 23 j 21:35	10° \mathfrak{Q} 10'26		min. Earth dist.	-4491 May 11 j 01:34	12° \mathfrak{Q} 57'09	8.98515 AU
				direct	-4491 Jul 19 j 16:06	9° \mathfrak{Q} 41'43	
conjunction	-4497 Sep 09 j 10:46	12° \mathfrak{Q} 04'46	2°20'53	evening set	-4491 Oct 27 j 15:00	16° \mathfrak{Q} 44'33	
minimum elong	-4497 Sep 09 j 10:44	12° \mathfrak{Q} 04'45	2°21'03	max. Earth dist.	-4491 Nov 12 j 11:04	18° \mathfrak{Q} 37'26	10.92636 AU
max. Earth dist.	-4497 Sep 09 j 01:11	12° \mathfrak{Q} 01'59	11.19758 AU				
morning rise	-4497 Sep 25 j 20:49	13° \mathfrak{Q} 58'14		conjunction	-4491 Nov 13 j 03:45	18° \mathfrak{Q} 42'26	1°29'38
	-4497 Oct 05 j 01:52	15° \mathfrak{Q}		minimum elong	-4491 Nov 13 j 03:48	18° \mathfrak{Q} 42'27	1°29'35
retrograde	-4496 Jan 02 j 18:13	20° \mathfrak{Q} 45'16		morning rise	-4491 Nov 29 j 18:36	20° \mathfrak{Q} 41'04	
opposition	-4496 Mar 12 j 20:40	17° \mathfrak{Q} 29'57	2°54'58	retrograde	-4490 Mar 12 j 22:56	27° \mathfrak{Q} 58'35	
min. Earth dist.	-4496 Mar 13 j 06:09	17° \mathfrak{Q} 28'13	9.21593 AU	opposition	-4490 May 22 j 20:42	24° \mathfrak{Q} 37'38	1°34'47
	-4496 Apr 20 j 15:21	15° \mathfrak{R} \mathfrak{Q}		min. Earth dist.	-4490 May 23 j 10:44	24° \mathfrak{Q} 35'01	8.86329 AU
direct	-4496 May 23 j 15:34	14° \mathfrak{Q} 10'32		direct	-4490 Jul 31 j 13:42	21° \mathfrak{Q} 18'49	
	-4496 Jun 25 j 04:43	15° \mathfrak{Q}		evening set	-4490 Nov 08 j 06:45	28° \mathfrak{Q} 27'04	
evening set	-4496 Sep 03 j 00:37	21° \mathfrak{Q} 08'43		-4490 Nov 21 j 03:59	0° \mathfrak{M}		
conjunction	-4496 Sep 19 j 11:11	23° \mathfrak{Q} 02'09	2°25'21	conjunction	-4490 Nov 24 j 22:26	0° \mathfrak{M} 27'26	1°04'25
minimum elong	-4496 Sep 19 j 11:10	23° \mathfrak{Q} 02'09	2°25'29	minimum elong	-4490 Nov 24 j 22:29	0° \mathfrak{M} 27'27	1°04'19
max. Earth dist.	-4496 Sep 18 j 23:02	22° \mathfrak{Q} 58'38	11.22291 AU	max. Earth dist.	-4490 Nov 24 j 06:36	0° \mathfrak{M} 22'38	10.79636 AU
morning rise	-4496 Oct 05 j 19:32	24° \mathfrak{Q} 55'00		morning rise	-4490 Dec 11 j 17:08	2° \mathfrak{M} 28'49	
	-4496 Nov 27 j 14:27	0° \mathfrak{M}		retrograde	-4489 Mar 25 j 20:42	9° \mathfrak{M} 56'44	
retrograde	-4495 Jan 13 j 04:19	1° \mathfrak{M} 42'58		opposition	-4489 Jun 04 j 14:02	6° \mathfrak{M} 34'01	1°01'41
	-4495 Mar 02 j 12:35	30° \mathfrak{R} \mathfrak{Q}		min. Earth dist.	-4489 Jun 05 j 02:41	6° \mathfrak{M} 31'37	8.72525 AU
opposition	-4495 Mar 24 j 14:05	28° \mathfrak{Q} 27'28	2°57'11	direct	-4489 Aug 12 j 14:19	3° \mathfrak{M} 14'24	
min. Earth dist.	-4495 Mar 25 j 01:08	28° \mathfrak{Q} 25'27	9.22710 AU	evening set	-4489 Nov 20 j 07:24	10° \mathfrak{M} 29'36	
direct	-4495 Jun 04 j 07:59	25° \mathfrak{Q} 08'46		max. Earth dist.	-4489 Dec 06 j 11:43	12° \mathfrak{M} 28'15	10.65290 AU
	-4495 Aug 25 j 23:59	0° \mathfrak{M}					
evening set	-4495 Sep 14 j 01:13	2° \mathfrak{M} 04'55		conjunction	-4489 Dec 07 j 02:31	12° \mathfrak{M} 32'48	0°35'44
conjunction	-4495 Sep 30 j 10:19	3° \mathfrak{M} 58'05	2°24'31	minimum elong	-4489 Dec 07 j 02:33	12° \mathfrak{M} 32'49	0°35'35
minimum elong	-4495 Sep 30 j 10:20	3° \mathfrak{M} 58'05	2°24'37	morning rise	-4489 Dec 24 j 01:41	14° \mathfrak{M} 37'18	
max. Earth dist.	-4495 Sep 29 j 20:54	3° \mathfrak{M} 54'11	11.21948 AU	-4489 Dec 27 j 05:17	15° \mathfrak{M}		
morning rise	-4495 Oct 16 j 17:51	5° \mathfrak{M} 50'52		retrograde	-4488 Apr 07 j 03:04	22° \mathfrak{M} 16'43	
retrograde	-4494 Jan 24 j 16:27	12° \mathfrak{M} 41'24		opposition	-4488 Jun 16 j 14:40	18° \mathfrak{M} 52'06	0°24'42
opposition	-4494 Apr 05 j 08:20	9° \mathfrak{M} 25'24	2°52'59	min. Earth dist.	-4488 Jun 17 j 01:51	18° \mathfrak{M} 49'58	8.57692 AU
min. Earth dist.	-4494 Apr 05 j 20:37	9° \mathfrak{M} 23'10	9.20894 AU	direct	-4488 Aug 24 j 00:25	15° \mathfrak{M} 31'27	
direct	-4494 Jun 15 j 20:09	6° \mathfrak{M} 07'12		evening set	-4488 Dec 01 j 18:34	22° \mathfrak{M} 55'03	
evening set	-4494 Sep 25 j 01:08	13° \mathfrak{M} 02'44					
conjunction	-4494 Oct 11 j 09:41	14° \mathfrak{M} 56'12	2°18'22	conjunction	-4488 Dec 18 j 17:36	25° \mathfrak{M} 01'23	0°04'37
minimum elong	-4494 Oct 11 j 09:43	14° \mathfrak{M} 56'12	2°18'27	minimum elong	-4488 Dec 18 j 17:37	25° \mathfrak{M} 01'23	0°04'27
max. Earth dist.	-4494 Oct 10 j 18:37	14° \mathfrak{M} 51'48	11.18683 AU	behind sun begin	-4488 Dec 18 j 10:39	24° \mathfrak{M} 59'14	
morning rise	-4494 Oct 27 j 17:31	16° \mathfrak{M} 49'34		behind sun end	-4488 Dec 19 j 00:34	25° \mathfrak{M} 03'32	
retrograde	-4493 Feb 05 j 08:45	23° \mathfrak{M} 44'23		max. Earth dist.	-4488 Dec 18 j 05:07	24° \mathfrak{M} 57'30	10.50206 AU
opposition	-4493 Apr 17 j 05:06	20° \mathfrak{M} 27'34	2°42'27	morning rise	-4487 Jan 04 j 21:24	27° \mathfrak{M} 09'15	
min. Earth dist.	-4493 Apr 17 j 19:14	20° \mathfrak{M} 24'59	9.16143 AU	-4487 Jan 29 j 06:28	0° \mathfrak{X}		
direct	-4493 Jun 27 j 08:44	17° \mathfrak{M} 09'35		desc. node	-4487 Feb 10 j 08:36	1° \mathfrak{X} 15'42	
evening set	-4493 Oct 06 j 02:05	24° \mathfrak{M} 06'00		retrograde	-4487 Apr 20 j 20:30	5° \mathfrak{X} 00'52	
conjunction	-4493 Oct 22 j 10:58	26° \mathfrak{M} 00'23	2°07'02	opposition	-4487 Jun 29 j 23:13	1° \mathfrak{X} 34'23	-0°14'48
minimum elong	-4493 Oct 22 j 11:00	26° \mathfrak{M} 00'23	2°07'04	min. Earth dist.	-4487 Jun 30 j 08:11	1° \mathfrak{X} 32'38	8.42485 AU
max. Earth dist.	-4493 Oct 21 j 17:46	25° \mathfrak{M} 55'20	11.12549 AU	-4487 Jul 20 j 22:42	30° \mathfrak{R} \mathfrak{M}		
morning rise	-4493 Nov 07 j 20:19	27° \mathfrak{M} 54'57		direct	-4487 Sep 05 j 18:05	28° \mathfrak{M} 12'32	
	-4493 Nov 26 j 16:02	0° \mathfrak{Q}		-4487 Oct 20 j 21:27	0° \mathfrak{X}		
retrograde	-4492 Feb 17 j 05:44	4° \mathfrak{Q} 55'44		evening set	-4487 Dec 14 j 17:48	5° \mathfrak{X} 45'44	
opposition	-4492 Apr 28 j 05:26	1° \mathfrak{Q} 37'50	2°25'43	conjunction	-4487 Dec 31 j 21:00	7° \mathfrak{X} 55'21	-0°27'47
min. Earth dist.	-4492 Apr 28 j 20:54	1° \mathfrak{Q} 35'00	9.08585 AU	minimum elong	-4487 Dec 31 j 20:58	7° \mathfrak{X} 55'20	0°27'59
				max. Earth dist.	-4487 Dec 31 j 12:21	7° \mathfrak{X} 52'36	10.35069 AU
				morning rise	-4486 Jan 18 j 05:16	10° \mathfrak{X} 06'39	

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Attention, astronomical year style is used: The year -4486 in astronomical counting style is the year 4487 BCE in historical counting style.

retrograde	-4486 May 05 j 00:23	18°♄10'41		morning rise	-4480 Apr 16 j 09:45	5°♄41'12	
opposition	-4486 Jul 13 j 15:48	14°♄42'26	-0°54'59	retrograde	-4480 Aug 01 j 02:06	14°♄15'56	
min. Earth dist.	-4486 Jul 13 j 21:20	14°♄41'20	8.27638 AU	opposition	-4480 Oct 06 j 17:05	10°♄44'35	-2°54'24
direct	-4486 Sep 18 j 20:00	11°♄19'17		min. Earth dist.	-4480 Oct 06 j 04:33	10°♄47'13	7.87230 AU
evening set	-4486 Dec 28 j 06:19	19°♄02'58		direct	-4480 Dec 11 j 20:07	7°♄14'38	
				evening set	-4479 Mar 26 j 23:14	15°♄40'53	
conjunction	-4485 Jan 14 j 13:42	21°♄15'52	-0°59'36				
minimum elong	-4485 Jan 14 j 13:40	21°♄15'51	0°59'48	conjunction	-4479 Apr 14 j 01:56	18°♄03'51	-2°13'35
max. Earth dist.	-4485 Jan 14 j 09:19	21°♄14'28	10.20650 AU	minimum elong	-4479 Apr 14 j 01:59	18°♄03'52	2°13'38
morning rise	-4485 Feb 01 j 02:16	23°♄30'31		max. Earth dist.	-4479 Apr 14 j 19:45	18°♄09'45	9.89428 AU
	-4485 Apr 03 j 16:21	0°♄		morning rise	-4479 May 02 j 05:19	20°♄26'57	
retrograde	-4485 May 19 j 13:32	1°♄46'24		retrograde	-4479 Aug 15 j 19:33	28°♄53'47	
	-4485 Jul 05 j 06:01	30°♄		opposition	-4479 Oct 21 j 06:32	25°♄23'33	-2°37'43
opposition	-4485 Jul 27 j 16:13	28°♄16'36	-1°33'33	min. Earth dist.	-4479 Oct 20 j 16:19	25°♄26'32	7.92903 AU
min. Earth dist.	-4485 Jul 27 j 17:51	28°♄16'16	8.13942 AU	direct	-4479 Dec 26 j 19:38	21°♄53'23	
direct	-4485 Oct 02 j 07:49	24°♄52'04			-4478 Apr 09 j 07:40	0°♄	
	-4485 Dec 19 j 15:58	0°♄		evening set	-4478 Apr 11 j 12:31	0°♄16'55	
evening set	-4484 Jan 11 j 08:31	2°♄46'37					
conjunction	-4484 Jan 28 j 19:57	5°♄02'38	-1°28'57	conjunction	-4478 Apr 29 j 16:20	2°♄38'51	-1°56'22
minimum elong	-4484 Jan 28 j 19:53	5°♄02'37	1°29'10	minimum elong	-4478 Apr 29 j 16:24	2°♄38'52	1°56'21
max. Earth dist.	-4484 Jan 28 j 19:51	5°♄02'36	10.07755 AU	max. Earth dist.	-4478 Apr 30 j 11:45	2°♄45'13	9.96933 AU
morning rise	-4484 Feb 15 j 12:30	7°♄20'21		morning rise	-4478 May 17 j 19:17	5°♄00'25	
retrograde	-4484 Jun 02 j 10:56	15°♄46'36		retrograde	-4478 Aug 30 j 04:42	13°♄16'20	
opposition	-4484 Aug 09 j 23:43	12°♄15'33	-2°07'52	opposition	-4478 Nov 04 j 14:11	9°♄47'36	-2°11'19
min. Earth dist.	-4484 Aug 09 j 21:35	12°♄15'59	8.02185 AU	min. Earth dist.	-4478 Nov 03 j 23:09	9°♄50'43	8.01967 AU
direct	-4484 Oct 15 j 04:28	8°♄49'38		direct	-4477 Jan 10 j 16:13	6°♄17'35	
evening set	-4483 Jan 24 j 23:57	16°♄54'42		evening set	-4477 Apr 26 j 18:58	14°♄35'27	
conjunction	-4483 Feb 11 j 15:07	19°♄13'26	-1°53'43	conjunction	-4477 May 14 j 22:39	16°♄55'30	-1°32'15
minimum elong	-4483 Feb 11 j 15:03	19°♄13'25	1°53'55	minimum elong	-4477 May 14 j 22:43	16°♄55'32	1°32'11
max. Earth dist.	-4483 Feb 11 j 19:03	19°♄14'44	9.97170 AU	max. Earth dist.	-4477 May 15 j 18:20	17°♄01'53	10.07555 AU
morning rise	-4483 Mar 01 j 11:09	21°♄33'46		morning rise	-4477 Jun 01 j 24:00	19°♄14'46	
	-4483 Jun 05 j 14:52	0°♄		retrograde	-4477 Sep 13 j 04:10	27°♄17'49	
retrograde	-4483 Jun 17 j 14:16	0°♄07'51		opposition	-4477 Nov 18 j 14:29	23°♄50'52	-1°37'39
	-4483 Jun 29 j 13:28	30°♄		min. Earth dist.	-4477 Nov 18 j 00:00	23°♄53'50	8.13800 AU
opposition	-4483 Aug 24 j 12:49	26°♄35'59	-2°35'12	direct	-4476 Jan 25 j 07:20	20°♄21'18	
min. Earth dist.	-4483 Aug 24 j 07:28	26°♄37'06	7.93114 AU	evening set	-4476 May 10 j 15:39	28°♄31'15	
direct	-4483 Oct 29 j 09:56	23°♄08'45			-4476 May 22 j 08:51	0°♄	
	-4482 Jan 29 j 07:13	0°♄		conjunction	-4476 May 28 j 17:46	0°♄48'44	-1°03'17
evening set	-4482 Feb 09 j 02:41	1°♄23'05		minimum elong	-4476 May 28 j 17:49	0°♄48'45	1°03'10
				max. Earth dist.	-4476 May 29 j 12:10	0°♄54'36	10.20567 AU
conjunction	-4482 Feb 26 j 21:22	3°♄43'59	-2°11'52	morning rise	-4476 Jun 15 j 16:21	3°♄05'05	
minimum elong	-4482 Feb 26 j 21:20	3°♄43'59	2°12'03	retrograde	-4476 Sep 25 j 16:18	10°♄54'31	
max. Earth dist.	-4482 Feb 27 j 05:21	3°♄46'39	9.89618 AU	opposition	-4476 Dec 01 j 06:46	7°♄29'29	-0°59'26
morning rise	-4482 Mar 16 j 20:21	6°♄06'17		min. Earth dist.	-4476 Nov 30 j 17:53	7°♄32'06	8.27635 AU
retrograde	-4482 Jul 02 j 20:20	14°♄44'47		direct	-4475 Feb 07 j 16:45	4°♄00'40	
opposition	-4482 Sep 08 j 05:46	11°♄12'34	-2°53'04	evening set	-4475 May 25 j 00:31	12°♄01'11	
min. Earth dist.	-4482 Sep 07 j 21:42	11°♄14'15	7.87361 AU				
direct	-4482 Nov 12 j 23:36	7°♄44'08		conjunction	-4475 Jun 11 j 23:44	14°♄15'35	-0°31'36
	-4481 Feb 16 j 02:48	15°♄		minimum elong	-4475 Jun 11 j 23:46	14°♄15'36	0°31'27
evening set	-4481 Feb 24 j 13:59	16°♄05'32		max. Earth dist.	-4475 Jun 12 j 15:25	14°♄20'30	10.35129 AU
					-4475 Jun 17 j 21:19	15°♄	
conjunction	-4481 Mar 14 j 11:53	18°♄27'58	-2°21'43	morning rise	-4475 Jun 29 j 18:35	16°♄28'37	
minimum elong	-4481 Mar 14 j 11:53	18°♄27'58	2°21'52	retrograde	-4475 Oct 08 j 15:54	24°♄04'43	
max. Earth dist.	-4481 Mar 14 j 23:50	18°♄31'57	9.85652 AU	opposition	-4475 Dec 14 j 14:26	20°♄41'37	-0°19'22
morning rise	-4481 Apr 01 j 13:11	20°♄51'26		min. Earth dist.	-4475 Dec 14 j 04:01	20°♄43'42	8.42610 AU
retrograde	-4481 Jul 18 j 01:42	29°♄30'12		direct	-4474 Feb 21 j 17:58	17°♄13'45	
opposition	-4481 Sep 23 j 00:06	25°♄58'09	-2°59'42	evening set	-4474 Jun 07 j 21:05	25°♄04'13	
min. Earth dist.	-4481 Sep 22 j 13:35	26°♄00'21	7.85345 AU	asc. node	-4474 Jun 16 j 00:27	26°♄03'46	
direct	-4481 Nov 27 j 20:14	22°♄28'48					
	-4480 Mar 04 j 06:04	0°♄		conjunction	-4474 Jun 25 j 16:18	27°♄15'15	0°00'51
evening set	-4480 Mar 11 j 06:18	0°♄54'20		minimum elong	-4474 Jun 25 j 16:18	27°♄15'15	0°01'01
				behind sun begin	-4474 Jun 25 j 09:04	27°♄13'03	
conjunction	-4480 Mar 29 j 06:57	3°♄17'28	-2°22'19	behind sun end	-4474 Jun 25 j 23:32	27°♄17'27	
minimum elong	-4480 Mar 29 j 06:59	3°♄17'28	2°22'25	max. Earth dist.	-4474 Jun 26 j 03:53	27°♄18'48	10.50351 AU
max. Earth dist.	-4480 Mar 29 j 22:14	3°♄22'33	9.85578 AU	morning rise	-4474 Jul 13 j 06:42	29°♄24'46	

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Attention, astronomical year style is used: The year -4474 in astronomical counting style is the year 4475 BCE in historical counting style.

	-4474 Jul 18 j 04:09	0°♊			-4468 Nov 16 j 23:03	15°♏	
retrograde	-4474 Oct 21 j 06:01	6°♊48'35		retrograde	-4468 Dec 28 j 09:39	16°♏23'17	
opposition	-4474 Dec 27 j 13:34	3°♊27'17	0°20'15		-4467 Feb 09 j 02:40	15°♏	
min. Earth dist.	-4474 Dec 27 j 05:42	3°♊28'50	8.57829 AU	opposition	-4467 Mar 08 j 07:26	13°♏07'40	2°52'08
direct	-4473 Mar 07 j 09:28	0°♊00'33		min. Earth dist.	-4467 Mar 08 j 15:54	13°♏06'07	9.19321 AU
evening set	-4473 Jun 21 j 05:15	7°♊41'03		direct	-4467 May 19 j 04:05	9°♏47'35	
					-4467 Aug 13 j 11:58	15°♏	
conjunction	-4473 Jul 08 j 19:45	9°♊48'41	0°32'14	evening set	-4467 Aug 29 j 18:19	16°♏47'20	
minimum elong	-4473 Jul 08 j 19:43	9°♊48'41	0°32'26				
max. Earth dist.	-4473 Jul 09 j 03:04	9°♊50'55	10.65353 AU	conjunction	-4467 Sep 15 j 06:08	18°♏41'12	2°24'07
morning rise	-4473 Jul 26 j 05:08	11°♊54'45		minimum elong	-4467 Sep 15 j 06:07	18°♏41'12	2°24'16
retrograde	-4473 Nov 02 j 11:42	19°♊07'53		max. Earth dist.	-4467 Sep 14 j 18:54	18°♏37'57	11.20421 AU
opposition	-4472 Jan 09 j 05:13	15°♊48'15	0°57'33	morning rise	-4467 Oct 01 j 15:03	20°♏34'21	
min. Earth dist.	-4472 Jan 08 j 23:51	15°♊49'18	8.72460 AU	retrograde	-4466 Jan 08 j 19:05	27°♏21'59	
direct	-4472 Mar 19 j 15:28	12°♊22'47		opposition	-4466 Mar 20 j 00:50	24°♏06'12	2°57'06
evening set	-4472 Jul 03 j 01:31	19°♊53'54		min. Earth dist.	-4466 Mar 20 j 11:50	24°♏04'12	9.21257 AU
				direct	-4466 May 30 j 19:52	20°♏46'45	
conjunction	-4472 Jul 20 j 10:56	21°♊58'17	1°01'18	evening set	-4466 Sep 09 j 19:51	27°♏43'57	
minimum elong	-4472 Jul 20 j 10:54	21°♊58'16	1°01'30				
max. Earth dist.	-4472 Jul 20 j 14:56	21°♊59'29	10.79404 AU	conjunction	-4466 Sep 26 j 05:30	29°♏37'18	2°25'33
morning rise	-4472 Aug 06 j 15:00	24°♊01'06		minimum elong	-4466 Sep 26 j 05:30	29°♏37'18	2°25'40
	-4472 Oct 08 j 18:55	0°♋		max. Earth dist.	-4466 Sep 25 j 15:31	29°♏33'15	11.20945 AU
retrograde	-4472 Nov 13 j 10:29	1°♋05'28			-4466 Sep 29 j 11:47	0°♎	
	-4472 Dec 19 j 19:18	30°♋		morning rise	-4466 Oct 12 j 13:19	1°♎30'10	
opposition	-4471 Jan 20 j 14:21	27°♋47'17	1°31'07	retrograde	-4465 Jan 20 j 04:28	8°♎19'42	
min. Earth dist.	-4471 Jan 20 j 11:49	27°♋47'46	8.85881 AU	opposition	-4465 Mar 31 j 18:43	5°♎03'27	2°55'39
direct	-4471 Apr 01 j 13:14	24°♋23'05		min. Earth dist.	-4465 Apr 01 j 07:54	5°♎01'03	9.20389 AU
	-4471 Jun 29 j 20:48	0°♋		direct	-4465 Jun 11 j 08:51	1°♎44'28	
evening set	-4471 Jul 15 j 11:16	1°♋45'43		evening set	-4465 Sep 20 j 19:49	8°♎40'31	
conjunction	-4471 Aug 01 j 15:29	3°♋47'07	1°26'59	conjunction	-4465 Oct 07 j 04:25	10°♎33'55	2°21'40
minimum elong	-4471 Aug 01 j 15:27	3°♋47'06	1°27'12	minimum elong	-4465 Oct 07 j 04:27	10°♎33'55	2°21'45
max. Earth dist.	-4471 Aug 01 j 16:13	3°♋47'20	10.91984 AU	max. Earth dist.	-4465 Oct 06 j 12:39	10°♎29'20	11.18700 AU
morning rise	-4471 Aug 18 j 14:24	5°♋47'01		morning rise	-4465 Oct 23 j 12:12	12°♎27'07	
retrograde	-4471 Nov 25 j 04:06	12°♋44'25		retrograde	-4464 Jan 31 j 18:03	19°♎20'17	
opposition	-4470 Feb 01 j 17:54	9°♋27'24	1°59'57	opposition	-4464 Apr 11 j 14:19	16°♎03'15	2°47'49
min. Earth dist.	-4470 Feb 01 j 19:03	9°♋27'11	8.97633 AU	min. Earth dist.	-4464 Apr 12 j 04:19	16°♎00'41	9.16753 AU
direct	-4470 Apr 14 j 01:16	6°♋04'25		direct	-4464 Jun 21 j 22:52	12°♎44'33	
evening set	-4470 Jul 27 j 11:42	13°♋19'35		evening set	-4464 Sep 30 j 19:54	19°♎40'51	
conjunction	-4470 Aug 13 j 10:47	15°♋18'23	1°48'33	conjunction	-4464 Oct 17 j 04:42	21°♎34'55	2°12'31
minimum elong	-4470 Aug 13 j 10:45	15°♋18'22	1°48'46	minimum elong	-4464 Oct 17 j 04:44	21°♎34'56	2°12'34
max. Earth dist.	-4470 Aug 13 j 07:19	15°♋17'21	11.02681 AU	max. Earth dist.	-4464 Oct 16 j 12:55	21°♎30'18	11.13747 AU
morning rise	-4470 Aug 30 j 05:08	17°♋15'49		morning rise	-4464 Nov 02 j 13:21	23°♎29'03	
retrograde	-4470 Dec 06 j 14:58	24°♋08'04			-4463 Jan 18 j 17:56	0°♌	
opposition	-4469 Feb 13 j 17:15	20°♋51'53	2°23'20	retrograde	-4463 Feb 11 j 14:22	0°♌27'27	
min. Earth dist.	-4469 Feb 13 j 21:40	20°♋51'04	9.07322 AU		-4463 Mar 07 j 16:47	30°♌	
direct	-4469 Apr 26 j 07:13	17°♋29'59		opposition	-4463 Apr 23 j 12:49	27°♎09'25	2°33'41
evening set	-4469 Aug 08 j 04:00	24°♋38'49		min. Earth dist.	-4463 Apr 24 j 02:46	27°♎06'52	9.10444 AU
				direct	-4463 Jul 03 j 12:29	23°♎50'52	
conjunction	-4469 Aug 24 j 22:27	26°♋35'25	2°05'27		-4463 Oct 04 j 18:57	0°♍	
minimum elong	-4469 Aug 24 j 22:25	26°♋35'25	2°05'40	evening set	-4463 Oct 11 j 22:22	0°♍48'52	
max. Earth dist.	-4469 Aug 24 j 15:15	26°♋33'19	11.11151 AU				
morning rise	-4469 Sep 10 j 12:53	28°♋30'53		conjunction	-4463 Oct 28 j 08:10	2°♍44'10	1°58'16
	-4469 Sep 23 j 20:24	0°♌		minimum elong	-4463 Oct 28 j 08:13	2°♍44'11	1°58'16
retrograde	-4469 Dec 18 j 01:08	5°♌19'52		max. Earth dist.	-4463 Oct 27 j 15:55	2°♍39'23	11.06224 AU
opposition	-4468 Feb 25 j 13:23	2°♌04'08	2°40'50	morning rise	-4463 Nov 13 j 18:43	4°♍39'48	
min. Earth dist.	-4468 Feb 25 j 20:02	2°♌02'55	9.14628 AU	retrograde	-4462 Feb 23 j 15:02	11°♍45'02	
	-4468 Mar 26 j 19:48	30°♌		opposition	-4462 May 05 j 15:26	8°♍25'49	2°13'27
direct	-4468 May 07 j 09:23	28°♌43'13		min. Earth dist.	-4462 May 06 j 05:39	8°♍23'11	9.01661 AU
	-4468 Jun 17 j 02:04	0°♌		direct	-4462 Jul 15 j 02:27	5°♍07'10	
evening set	-4468 Aug 18 j 13:40	5°♌46'52		evening set	-4462 Oct 23 j 04:59	12°♍08'25	
conjunction	-4468 Sep 04 j 04:23	7°♌41'50	2°17'23	conjunction	-4462 Nov 08 j 16:33	14°♍05'29	1°39'09
minimum elong	-4468 Sep 04 j 04:21	7°♌41'50	2°17'34	minimum elong	-4462 Nov 08 j 16:36	14°♍05'29	1°39'07
max. Earth dist.	-4468 Sep 03 j 19:01	7°♌39'07	11.17126 AU	max. Earth dist.	-4462 Nov 07 j 23:37	14°♍00'26	10.96382 AU
morning rise	-4468 Sep 20 j 15:34	9°♌35'50		morning rise	-4462 Nov 25 j 06:04	16°♍03'10	

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Attention, astronomical year style is used: The year -4461 in astronomical counting style is the year 4462 BCE in historical counting style.

retrograde	-4461 Mar 07 j 23:51	23°♌16'48		minimum elong	-4455 Jan 22 j 04:02	29°♏26'31	1°17'10
opposition	-4461 May 17 j 23:36	19°♌56'10	1°47'28	max. Earth dist.	-4455 Jan 22 j 01:57	29°♏25'50	10.14495 AU
min. Earth dist.	-4461 May 18 j 13:56	19°♌53'30	8.90711 AU		-4455 Jan 26 j 11:16	0°♏	
direct	-4461 Jul 26 j 21:43	16°♌37'14		morning rise	-4455 Feb 08 j 19:02	1°♏42'49	
evening set	-4461 Nov 03 j 17:30	23°♌43'13		retrograde	-4455 May 27 j 13:32	10°♏04'22	
				opposition	-4455 Aug 04 j 08:14	6°♏34'29	-1°53'58
conjunction	-4461 Nov 20 j 07:46	25°♌42'31	1°15'37	min. Earth dist.	-4455 Aug 04 j 08:05	6°♏34'31	8.08550 AU
minimum elong	-4461 Nov 20 j 07:49	25°♌42'32	1°15'32	direct	-4455 Oct 09 j 16:56	3°♏09'48	
max. Earth dist.	-4461 Nov 19 j 15:44	25°♌37'41	10.84560 AU	evening set	-4454 Jan 19 j 04:16	11°♏09'55	
morning rise	-4461 Dec 07 j 00:55	27°♌42'46					
	-4461 Dec 27 j 03:37	0°♌		conjunction	-4454 Feb 05 j 17:42	13°♏27'19	-1°43'54
retrograde	-4460 Mar 19 j 16:53	5°♌06'13		minimum elong	-4454 Feb 05 j 17:38	13°♏27'17	1°44'06
opposition	-4460 May 29 j 14:01	1°♌44'02	1°16'18	max. Earth dist.	-4454 Feb 05 j 20:02	13°♏28'05	10.03105 AU
min. Earth dist.	-4460 May 30 j 03:10	1°♌41'33	8.77991 AU	morning rise	-4454 Feb 23 j 12:14	15°♏46'22	
	-4460 Jun 22 j 19:05	30°♌		retrograde	-4454 Jun 11 j 14:12	24°♏16'49	
direct	-4460 Aug 06 j 21:37	28°♌24'35		opposition	-4454 Aug 18 j 19:05	20°♏45'56	-2°24'31
	-4460 Sep 19 j 10:52	0°♌		min. Earth dist.	-4454 Aug 18 j 15:39	20°♏46'39	7.98408 AU
evening set	-4460 Nov 14 j 14:10	5°♌36'50		direct	-4454 Oct 23 j 19:07	17°♏19'54	
				evening set	-4453 Feb 03 j 02:09	25°♏29'48	
conjunction	-4460 Dec 01 j 07:52	7°♌38'50	0°48'16				
minimum elong	-4460 Dec 01 j 07:54	7°♌38'50	0°48'08	conjunction	-4453 Feb 20 j 19:21	27°♏49'37	-2°05'02
max. Earth dist.	-4460 Nov 30 j 18:02	7°♌34'36	10.71186 AU	minimum elong	-4453 Feb 20 j 19:18	27°♏49'37	2°05'13
morning rise	-4460 Dec 18 j 05:03	9°♌41'59		max. Earth dist.	-4453 Feb 21 j 02:04	27°♏51'51	9.94203 AU
	-4459 Feb 07 j 05:26	15°♌			-4453 Mar 09 j 07:18	0°♏	
retrograde	-4459 Apr 01 j 20:06	17°♌16'28		morning rise	-4453 Mar 10 j 16:58	0°♏10'56	
	-4459 May 27 j 11:04	15°♌		retrograde	-4453 Jun 26 j 19:13	8°♏47'24	
opposition	-4459 Jun 11 j 11:21	13°♌52'38	0°40'46	opposition	-4453 Sep 02 j 10:20	5°♏15'57	-2°46'36
min. Earth dist.	-4459 Jun 11 j 22:13	13°♌50'34	8.63997 AU	min. Earth dist.	-4453 Sep 02 j 03:33	5°♏17'21	7.91061 AU
direct	-4459 Aug 19 j 04:40	10°♌32'29		direct	-4453 Nov 07 j 05:22	1°♏48'39	
	-4459 Nov 01 j 22:00	15°♌		evening set	-4452 Feb 18 j 10:05	10°♏06'47	
evening set	-4459 Nov 26 j 20:49	17°♌52'28					
				conjunction	-4452 Mar 07 j 06:43	12°♏28'28	-2°18'32
conjunction	-4459 Dec 13 j 18:15	19°♌57'28	0°18'00	minimum elong	-4452 Mar 07 j 06:41	12°♏28'27	2°18'42
minimum elong	-4459 Dec 13 j 18:16	19°♌57'28	0°17'50	max. Earth dist.	-4452 Mar 07 j 17:24	12°♏32'01	9.88425 AU
max. Earth dist.	-4459 Dec 13 j 06:53	19°♌53'56	10.56807 AU	morning rise	-4452 Mar 25 j 06:51	14°♏51'19	
morning rise	-4459 Dec 30 j 19:50	22°♌03'51			-4452 Mar 26 j 09:32	15°♏	
retrograde	-4458 Apr 15 j 10:57	29°♌50'14		retrograde	-4452 Jul 11 j 01:26	23°♏30'04	
opposition	-4458 Jun 24 j 16:42	26°♌24'44	0°02'06	opposition	-4452 Sep 16 j 04:12	19°♏58'29	-2°58'08
min. Earth dist.	-4458 Jun 25 j 00:46	26°♌23'10	8.49338 AU	min. Earth dist.	-4452 Sep 15 j 18:31	20°♏00'30	7.87106 AU
desc. node	-4458 Jul 14 j 16:43	24°♌55'08		direct	-4452 Nov 20 j 22:41	16°♏30'06	
direct	-4458 Aug 31 j 17:24	23°♌03'42		evening set	-4451 Mar 05 j 00:39	24°♏53'50	
	-4458 Dec 05 j 04:16	0°♏					
evening set	-4458 Dec 09 j 14:56	0°♏32'40		conjunction	-4451 Mar 23 j 00:11	27°♏16'38	-2°23'07
				minimum elong	-4451 Mar 23 j 00:12	27°♏16'38	2°23'14
conjunction	-4458 Dec 26 j 16:16	2°♏40'50	-0°14'06	max. Earth dist.	-4451 Mar 23 j 14:23	27°♏21'21	9.86311 AU
minimum elong	-4458 Dec 26 j 16:15	2°♏40'50	0°14'17	morning rise	-4451 Apr 10 j 02:09	29°♏40'12	
behind sun begin	-4458 Dec 26 j 12:50	2°♏39'46			-4451 Apr 12 j 15:05	0°♏	
behind sun end	-4458 Dec 26 j 19:40	2°♏41'54		retrograde	-4451 Jul 26 j 04:51	8°♏16'57	
max. Earth dist.	-4458 Dec 26 j 07:11	2°♏37'59	10.42078 AU	opposition	-4451 Sep 30 j 22:04	4°♏45'41	-2°57'55
morning rise	-4457 Jan 12 j 22:31	4°♏50'37		min. Earth dist.	-4451 Sep 30 j 10:15	4°♏48'10	7.86941 AU
retrograde	-4457 Apr 29 j 11:16	12°♏49'19		direct	-4451 Dec 05 j 20:42	1°♏16'25	
opposition	-4457 Jul 08 j 06:14	9°♏22'12	-0°38'03	evening set	-4450 Mar 20 j 17:44	9°♏42'28	
min. Earth dist.	-4457 Jul 08 j 11:42	9°♏21'07	8.34713 AU				
direct	-4457 Sep 13 j 14:55	6°♏00'05		conjunction	-4450 Apr 07 j 19:37	12°♏05'32	-2°18'18
evening set	-4457 Dec 22 j 22:03	13°♏39'06		minimum elong	-4450 Apr 07 j 19:40	12°♏05'32	2°18'22
				max. Earth dist.	-4450 Apr 08 j 12:22	12°♏11'05	9.88109 AU
conjunction	-4456 Jan 09 j 03:26	15°♏50'30	-0°46'20	morning rise	-4450 Apr 25 j 22:41	14°♏28'54	
minimum elong	-4456 Jan 09 j 03:24	15°♏50'29	0°46'32	retrograde	-4450 Aug 10 j 02:00	22°♏59'26	
max. Earth dist.	-4456 Jan 08 j 21:23	15°♏48'34	10.27724 AU	opposition	-4450 Oct 15 j 13:16	19°♏28'57	-2°45'58
morning rise	-4456 Jan 26 j 14:14	18°♏03'39		min. Earth dist.	-4450 Oct 15 j 00:17	19°♏31'40	7.90633 AU
retrograde	-4456 May 12 j 20:17	26°♏14'20		direct	-4450 Dec 20 j 20:15	15°♏59'04	
opposition	-4456 Jul 21 j 03:34	22°♏45'43	-1°17'35	evening set	-4449 Apr 05 j 09:07	24°♏23'58	
min. Earth dist.	-4456 Jul 21 j 06:27	22°♏45'09	8.20873 AU				
direct	-4456 Sep 25 j 23:09	19°♏22'22		conjunction	-4449 Apr 23 j 12:30	26°♏46'23	-2°04'33
evening set	-4455 Jan 04 j 18:37	27°♏11'59		minimum elong	-4449 Apr 23 j 12:34	26°♏46'24	2°04'34
				max. Earth dist.	-4449 Apr 24 j 06:27	26°♏52'18	9.93703 AU
conjunction	-4455 Jan 22 j 04:05	29°♏26'32	-1°16'58	morning rise	-4449 May 11 j 15:44	29°♏08'40	

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Attention, astronomical year style is used: The year -4449 in astronomical counting style is the year 4450 BCE in historical counting style.

	-4449 May 18 j 08:33	0°♊		evening set	-4443 Jun 28 j 01:05	14°♊59'39	
retrograde	-4449 Aug 24 j 14:57	7°♊29'27					
opposition	-4449 Oct 29 j 23:36	4°♊00'08	-2°23'31	conjunction	-4443 Jul 15 j 12:49	17°♊05'29	0°49'11
min. Earth dist.	-4449 Oct 29 j 10:19	4°♊02'55	7.97911 AU	minimum elong	-4443 Jul 15 j 12:47	17°♊05'28	0°49'23
direct	-4448 Jan 04 j 19:02	0°♊30'00		max. Earth dist.	-4443 Jul 15 j 19:06	17°♊07'23	10.72503 AU
evening set	-4448 Apr 19 j 18:48	8°♊50'30		morning rise	-4443 Aug 01 j 19:14	19°♊09'44	
				retrograde	-4443 Nov 08 j 17:39	26°♊17'34	
conjunction	-4448 May 07 j 22:31	11°♊11'25	-1°43'11	opposition	-4442 Jan 15 j 18:16	22°♊58'16	1°17'14
minimum elong	-4448 May 07 j 22:35	11°♊11'27	1°43'09	min. Earth dist.	-4442 Jan 15 j 14:38	22°♊58'58	8.79430 AU
max. Earth dist.	-4448 May 08 j 16:21	11°♊17'14	10.02668 AU	direct	-4442 Mar 27 j 12:19	19°♊32'58	
morning rise	-4448 May 26 j 00:46	13°♊31'45		evening set	-4442 Jul 10 j 14:57	26°♊58'59	
retrograde	-4448 Sep 06 j 17:36	21°♊40'24					
opposition	-4448 Nov 12 j 03:05	18°♊12'33	-1°52'40	conjunction	-4442 Jul 27 j 21:22	29°♊01'39	1°16'24
min. Earth dist.	-4448 Nov 11 j 13:51	18°♊15'17	8.08251 AU	minimum elong	-4442 Jul 27 j 21:19	29°♊01'38	1°16'36
direct	-4447 Jan 18 j 13:57	14°♊42'32		max. Earth dist.	-4442 Jul 27 j 23:30	29°♊02'17	10.86114 AU
evening set	-4447 May 04 j 19:34	22°♊56'01			-4442 Aug 05 j 01:26	0°♊	
				morning rise	-4442 Aug 13 j 22:41	1°♊02'47	
conjunction	-4447 May 22 j 22:23	25°♊14'41	-1°16'03	retrograde	-4442 Nov 20 j 12:11	8°♊02'41	
minimum elong	-4447 May 22 j 22:27	25°♊14'42	1°15'59	opposition	-4441 Jan 27 j 23:29	4°♊44'45	1°48'09
max. Earth dist.	-4447 May 23 j 15:18	25°♊20'07	10.14364 AU	min. Earth dist.	-4441 Jan 27 j 22:12	4°♊45'00	8.92362 AU
morning rise	-4447 Jun 09 j 22:28	27°♊32'23		direct	-4441 Apr 09 j 04:39	1°♊20'49	
	-4447 Jun 30 j 06:05	0°♊		evening set	-4441 Jul 22 j 18:44	8°♊38'46	
retrograde	-4447 Sep 20 j 09:01	5°♊27'40					
opposition	-4447 Nov 25 j 22:33	2°♊01'29	-1°16'07	conjunction	-4441 Aug 08 j 20:01	10°♊38'35	1°39'46
min. Earth dist.	-4447 Nov 25 j 09:44	2°♊04'06	8.20953 AU	minimum elong	-4441 Aug 08 j 19:58	10°♊38'34	1°39'59
	-4447 Dec 22 j 11:24	30°♊		max. Earth dist.	-4441 Aug 08 j 19:09	10°♊38'20	10.98132 AU
direct	-4446 Feb 02 j 02:53	28°♊31'56		morning rise	-4441 Aug 25 j 16:23	12°♊36'59	
	-4446 Mar 15 j 11:16	0°♊		retrograde	-4441 Dec 02 j 01:56	19°♊30'52	
evening set	-4446 May 19 j 09:13	6°♊36'35		opposition	-4440 Feb 08 j 23:58	16°♊14'02	2°13'54
				min. Earth dist.	-4440 Feb 09 j 01:01	16°♊13'50	9.03470 AU
conjunction	-4446 Jun 06 j 09:55	8°♊52'25	-0°45'19	direct	-4440 Apr 20 j 13:07	12°♊51'28	
minimum elong	-4446 Jun 06 j 09:57	8°♊52'25	0°45'11	evening set	-4440 Aug 02 j 13:41	20°♊02'25	
max. Earth dist.	-4446 Jun 07 j 01:19	8°♊57'17	10.28011 AU				
morning rise	-4446 Jun 24 j 06:42	11°♊06'58		conjunction	-4440 Aug 19 j 10:14	21°♊59'50	1°58'42
	-4446 Jul 28 j 03:17	15°♊		minimum elong	-4440 Aug 19 j 10:11	21°♊59'49	1°58'55
retrograde	-4446 Oct 03 j 13:10	18°♊48'47		max. Earth dist.	-4440 Aug 19 j 06:54	21°♊58'51	11.08110 AU
opposition	-4446 Dec 09 j 09:31	15°♊24'22	-0°36'34	morning rise	-4440 Sep 05 j 02:11	23°♊55'59	
min. Earth dist.	-4446 Dec 08 j 21:51	15°♊26'43	8.35208 AU		-4440 Nov 12 j 07:10	0°♊	
	-4446 Dec 14 j 10:56	15°♊		retrograde	-4440 Dec 12 j 13:36	0°♊45'41	
direct	-4445 Feb 16 j 07:15	11°♊55'36			-4439 Jan 12 j 07:21	30°♊	
	-4445 Apr 19 j 05:04	15°♊		opposition	-4439 Feb 19 j 20:49	27°♊29'42	2°33'55
evening set	-4445 Jun 02 j 10:54	19°♊50'27		min. Earth dist.	-4439 Feb 20 j 01:05	27°♊28'55	9.12359 AU
				direct	-4439 May 02 j 14:45	24°♊08'22	
conjunction	-4445 Jun 20 j 08:10	22°♊03'03	-0°13'03		-4439 Aug 03 j 01:55	0°♊	
minimum elong	-4445 Jun 20 j 08:11	22°♊03'03	0°12'53	evening set	-4439 Aug 14 j 01:42	1°♊13'35	
behind sun begin	-4445 Jun 20 j 03:48	22°♊01'43					
behind sun end	-4445 Jun 20 j 12:33	22°♊04'24		conjunction	-4439 Aug 30 j 17:59	3°♊09'05	2°12'47
max. Earth dist.	-4445 Jun 20 j 21:27	22°♊07'10	10.42769 AU	minimum elong	-4439 Aug 30 j 17:56	3°♊09'05	2°12'58
morning rise	-4445 Jul 08 j 00:37	24°♊14'10		max. Earth dist.	-4439 Aug 30 j 11:02	3°♊07'04	11.15710 AU
	-4445 Sep 02 j 01:05	0°♊		morning rise	-4439 Sep 16 j 06:25	5°♊03'32	
retrograde	-4445 Oct 16 j 08:31	1°♊43'13		retrograde	-4439 Dec 23 j 20:30	11°♊50'50	
asc. node	-4445 Nov 19 j 10:22	0°♊42'30		opposition	-4438 Mar 03 j 15:02	8°♊35'22	2°47'52
	-4445 Nov 30 j 15:54	30°♊		min. Earth dist.	-4438 Mar 03 j 22:32	8°♊34'00	9.18725 AU
opposition	-4445 Dec 22 j 12:04	28°♊20'37	0°03'29	direct	-4438 May 14 j 10:25	5°♊15'08	
min. Earth dist.	-4445 Dec 22 j 02:31	28°♊22'30	8.50200 AU	evening set	-4438 Aug 25 j 08:09	12°♊15'55	
direct	-4444 Mar 01 j 01:30	24°♊52'51					
	-4444 May 23 j 02:53	0°♊		conjunction	-4438 Sep 10 j 20:56	14°♊10'02	2°21'45
evening set	-4444 Jun 15 j 00:07	2°♊37'39		minimum elong	-4438 Sep 10 j 20:55	14°♊10'01	2°21'55
				max. Earth dist.	-4438 Sep 10 j 10:34	14°♊07'02	11.20688 AU
conjunction	-4444 Jul 02 j 16:57	4°♊46'51	0°19'01		-4438 Sep 18 j 01:38	15°♊	
minimum elong	-4444 Jul 02 j 16:56	4°♊46'51	0°19'12	morning rise	-4438 Sep 27 j 06:48	16°♊03'20	
max. Earth dist.	-4444 Jul 03 j 03:22	4°♊50'02	10.57840 AU	retrograde	-4437 Jan 04 j 04:47	22°♊50'04	
morning rise	-4444 Jul 20 j 04:28	6°♊54'27		opposition	-4437 Mar 15 j 08:09	19°♊34'45	2°55'32
retrograde	-4444 Oct 27 j 17:52	14°♊12'05		min. Earth dist.	-4437 Mar 15 j 17:38	19°♊33'01	9.22356 AU
opposition	-4443 Jan 03 j 06:47	10°♊51'12	0°41'57	direct	-4437 May 26 j 04:44	16°♊15'26	
min. Earth dist.	-4443 Jan 03 j 00:16	10°♊52'28	8.65174 AU	evening set	-4437 Sep 05 j 10:27	23°♊13'02	
direct	-4443 Mar 14 j 10:43	7°♊24'37					

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Attention, astronomical year style is used: The year -4437 in astronomical counting style is the year 4438 BCE in historical counting style.

conjunction	-4437 Sep 21 j 20:52	25° Ω 06'21	2°25'28	conjunction	-4431 Nov 26 j 09:23	2° \mathbb{M} 35'01	1°00'44
minimum elong	-4437 Sep 21 j 20:52	25° Ω 06'21	2°25'36	minimum elong	-4431 Nov 26 j 09:25	2° \mathbb{M} 35'02	1°00'37
max. Earth dist.	-4437 Sep 21 j 08:59	25° Ω 02'55	11.22879 AU	max. Earth dist.	-4431 Nov 25 j 16:36	2° \mathbb{M} 29'56	10.78448 AU
morning rise	-4437 Oct 08 j 05:00	26° Ω 59'05		morning rise	-4431 Dec 13 j 04:36	4° \mathbb{M} 36'41	
	-4437 Nov 05 j 13:46	0° \mathbb{M}		retrograde	-4430 Mar 27 j 09:30	12° \mathbb{M} 05'39	
retrograde	-4436 Jan 15 j 15:00	3° \mathbb{M} 46'57		opposition	-4430 Jun 06 j 03:01	8° \mathbb{M} 42'49	0°56'56
opposition	-4436 Mar 26 j 01:20	0° \mathbb{M} 31'26	2°56'51	min. Earth dist.	-4430 Jun 06 j 16:22	8° \mathbb{M} 40'18	8.71206 AU
min. Earth dist.	-4436 Mar 26 j 12:11	0° \mathbb{M} 29'28	9.23124 AU	direct	-4430 Aug 14 j 02:19	5° \mathbb{M} 23'09	
	-4436 Apr 02 j 06:47	30° \mathbb{R} 8		evening set	-4430 Nov 21 j 19:04	12° \mathbb{M} 39'11	
direct	-4436 Jun 05 j 18:28	27° Ω 12'51					
	-4436 Aug 05 j 18:36	0° \mathbb{M}		conjunction	-4430 Dec 08 j 14:34	14° \mathbb{M} 42'42	0°31'42
evening set	-4436 Sep 15 j 10:37	4° \mathbb{M} 08'35		minimum elong	-4430 Dec 08 j 14:35	14° \mathbb{M} 42'42	0°31'33
				max. Earth dist.	-4430 Dec 07 j 23:26	14° \mathbb{M} 38'02	10.63873 AU
conjunction	-4436 Oct 01 j 19:38	6° \mathbb{M} 01'42	2°23'53		-4430 Dec 10 j 22:42	15° \mathbb{M}	
minimum elong	-4436 Oct 01 j 19:39	6° \mathbb{M} 01'42	2°23'59	morning rise	-4430 Dec 25 j 14:13	16° \mathbb{M} 47'31	
max. Earth dist.	-4436 Oct 01 j 06:12	5° \mathbb{M} 57'48	11.22196 AU	retrograde	-4429 Apr 09 j 18:05	24° \mathbb{M} 28'10	
morning rise	-4436 Oct 18 j 03:06	7° \mathbb{M} 54'28		opposition	-4429 Jun 19 j 04:36	21° \mathbb{M} 03'27	0°19'34
retrograde	-4435 Jan 26 j 03:15	14° \mathbb{M} 45'06		min. Earth dist.	-4429 Jun 19 j 16:09	21° \mathbb{M} 01'14	8.56177 AU
opposition	-4435 Apr 06 j 19:34	11° \mathbb{M} 29'05	2°51'47	direct	-4429 Aug 26 j 12:55	17° \mathbb{M} 42'43	
min. Earth dist.	-4435 Apr 07 j 08:21	11° \mathbb{M} 26'46	9.20981 AU	evening set	-4429 Dec 04 j 07:26	25° \mathbb{M} 07'19	
direct	-4435 Jun 17 j 06:35	8° \mathbb{M} 10'57					
evening set	-4435 Sep 26 j 10:19	15° \mathbb{M} 06'16		conjunction	-4429 Dec 21 j 06:59	27° \mathbb{M} 14'01	0°00'20
				minimum elong	-4429 Dec 21 j 06:59	27° \mathbb{M} 14'00	0°00'09
conjunction	-4435 Oct 12 j 18:49	16° \mathbb{M} 59'45	2°17'02	behind sun begin	-4429 Dec 20 j 23:59	27° \mathbb{M} 11'50	
minimum elong	-4435 Oct 12 j 18:50	16° \mathbb{M} 59'46	2°17'06	behind sun end	-4429 Dec 21 j 13:59	27° \mathbb{M} 16'10	
max. Earth dist.	-4435 Oct 12 j 02:50	16° \mathbb{M} 55'06	11.18627 AU	max. Earth dist.	-4429 Dec 20 j 19:07	27° \mathbb{M} 10'18	10.48623 AU
morning rise	-4435 Oct 29 j 02:51	18° \mathbb{M} 53'11		desc. node	-4429 Dec 25 j 02:09	27° \mathbb{M} 42'35	
retrograde	-4434 Feb 06 j 19:18	25° \mathbb{M} 48'14		morning rise	-4428 Jan 07 j 11:10	29° \mathbb{M} 22'14	
opposition	-4434 Apr 18 j 16:21	22° \mathbb{M} 31'23	2°40'24		-4428 Jan 12 j 15:19	0° \mathbb{M}	
min. Earth dist.	-4434 Apr 19 j 07:13	22° \mathbb{M} 28'40	9.15941 AU	retrograde	-4428 Apr 22 j 12:31	7° \mathbb{M} 15'14	
direct	-4434 Jun 28 j 19:03	19° \mathbb{M} 13'27		opposition	-4428 Jul 01 j 14:07	3° \mathbb{M} 48'37	-0°20'05
evening set	-4434 Oct 07 j 11:14	26° \mathbb{M} 09'48		min. Earth dist.	-4428 Jul 01 j 22:44	3° \mathbb{M} 46'56	8.40852 AU
				direct	-4428 Sep 07 j 07:25	0° \mathbb{M} 26'40	
conjunction	-4434 Oct 23 j 20:14	28° \mathbb{M} 04'15	2°05'00	evening set	-4428 Dec 16 j 08:18	8° \mathbb{M} 01'04	
minimum elong	-4434 Oct 23 j 20:17	28° \mathbb{M} 04'16	2°05'02				
max. Earth dist.	-4434 Oct 23 j 02:52	27° \mathbb{M} 59'09	11.12216 AU	conjunction	-4427 Jan 02 j 11:59	10° \mathbb{M} 11'04	-0°32'01
morning rise	-4434 Nov 09 j 05:50	29° \mathbb{M} 58'56		minimum elong	-4427 Jan 02 j 11:58	10° \mathbb{M} 11'03	0°32'13
	-4434 Nov 09 j 09:34	0° \mathbb{M}		max. Earth dist.	-4427 Jan 02 j 03:53	10° \mathbb{M} 08'29	10.33405 AU
retrograde	-4433 Feb 18 j 15:48	7° \mathbb{M} 00'10		morning rise	-4427 Jan 19 j 20:38	12° \mathbb{M} 22'44	
opposition	-4433 Apr 30 j 16:45	3° \mathbb{M} 42'09	2°22'51	retrograde	-4427 May 06 j 17:27	20° \mathbb{M} 28'12	
min. Earth dist.	-4433 May 01 j 08:13	3° \mathbb{M} 39'19	9.08104 AU	opposition	-4427 Jul 15 j 07:38	16° \mathbb{M} 59'47	-1°00'09
direct	-4433 Jul 10 j 09:14	0° \mathbb{M} 24'11		min. Earth dist.	-4427 Jul 15 j 12:29	16° \mathbb{M} 58'50	8.25978 AU
evening set	-4433 Oct 18 j 15:23	7° \mathbb{M} 23'09		direct	-4427 Sep 20 j 10:48	13° \mathbb{M} 36'32	
max. Earth dist.	-4433 Nov 03 j 08:49	9° \mathbb{M} 14'03	11.03132 AU	evening set	-4427 Dec 29 j 22:31	21° \mathbb{M} 21'33	
conjunction	-4433 Nov 04 j 02:02	9° \mathbb{M} 19'09	1°48'01	conjunction	-4426 Jan 16 j 06:17	23° \mathbb{M} 34'50	-1°03'35
minimum elong	-4433 Nov 04 j 02:05	9° \mathbb{M} 19'10	1°48'00	minimum elong	-4426 Jan 16 j 06:14	23° \mathbb{M} 34'49	1°03'48
morning rise	-4433 Nov 20 j 13:59	11° \mathbb{M} 15'38		max. Earth dist.	-4426 Jan 16 j 01:53	23° \mathbb{M} 33'25	10.19008 AU
retrograde	-4432 Mar 01 j 22:21	18° \mathbb{M} 24'42		morning rise	-4426 Feb 02 j 19:15	25° \mathbb{M} 49'51	
opposition	-4432 May 11 j 21:54	15° \mathbb{M} 05'18	1°59'25		-4426 Mar 10 j 10:16	0° \mathbb{M}	
min. Earth dist.	-4432 May 12 j 12:50	15° \mathbb{M} 02'32	8.97739 AU	retrograde	-4426 May 21 j 08:30	4° \mathbb{M} 07'07	
direct	-4432 Jul 21 j 03:16	11° \mathbb{M} 47'02		opposition	-4426 Jul 29 j 09:10	0° \mathbb{M} 37'10	-1°38'17
evening set	-4432 Oct 29 j 00:47	18° \mathbb{M} 50'09		min. Earth dist.	-4426 Jul 29 j 10:24	0° \mathbb{M} 36'55	8.12359 AU
					-4426 Aug 06 j 02:31	30° \mathbb{R} 8	
conjunction	-4432 Nov 14 j 13:50	20° \mathbb{M} 48'14	1°26'26	direct	-4426 Oct 03 j 22:42	27° \mathbb{M} 12'30	
minimum elong	-4432 Nov 14 j 13:53	20° \mathbb{M} 48'15	1°26'22		-4426 Nov 28 j 23:18	0° \mathbb{M}	
max. Earth dist.	-4432 Nov 13 j 20:56	20° \mathbb{M} 43'10	10.91720 AU	evening set	-4425 Jan 13 j 02:19	5° \mathbb{M} 08'25	
morning rise	-4432 Dec 01 j 05:03	22° \mathbb{M} 47'06					
	-4431 Mar 03 j 22:30	0° \mathbb{M}		conjunction	-4425 Jan 30 j 14:02	7° \mathbb{M} 24'47	-1°32'27
retrograde	-4431 Mar 14 j 11:51	0° \mathbb{M} 05'27		minimum elong	-4425 Jan 30 j 13:58	7° \mathbb{M} 24'45	1°32'39
	-4431 Mar 25 j 01:20	30° \mathbb{R} 8		max. Earth dist.	-4425 Jan 30 j 13:34	7° \mathbb{M} 24'38	10.06248 AU
opposition	-4431 May 24 j 09:01	26° \mathbb{M} 44'25	1°30'33	morning rise	-4425 Feb 17 j 07:01	9° \mathbb{M} 42'51	
min. Earth dist.	-4431 May 24 j 23:10	26° \mathbb{M} 41'46	8.85264 AU	retrograde	-4425 Jun 05 j 07:36	18° \mathbb{M} 10'19	
direct	-4431 Aug 01 j 23:10	23° \mathbb{M} 25'35		opposition	-4425 Aug 12 j 17:41	14° \mathbb{M} 39'10	-2°11'50
	-4431 Nov 04 j 20:39	0° \mathbb{M}		min. Earth dist.	-4425 Aug 12 j 15:38	14° \mathbb{M} 39'35	8.00793 AU
evening set	-4431 Nov 09 j 17:26	0° \mathbb{M} 34'25		direct	-4425 Oct 17 j 20:28	11° \mathbb{M} 13'04	
				evening set	-4424 Jan 27 j 19:17	19° \mathbb{M} 19'28	

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Attention, astronomical year style is used: The year -4424 in astronomical counting style is the year 4425 BCE in historical counting style.

conjunction	-4424 Feb 14 j 10:46	21° Z 38'30	-1°56'27	opposition	-4419 Nov 06 j 08:31	12° Y 14'06	-2°07'07
minimum elong	-4424 Feb 14 j 10:43	21° Z 38'29	1°56'38	min. Earth dist.	-4419 Nov 05 j 17:22	12° Y 17'15	8.02831 AU
max. Earth dist.	-4424 Feb 14 j 14:25	21° Z 39'42	9.95908 AU	direct	-4418 Jan 12 j 11:22	8° Y 44'03	
morning rise	-4424 Mar 03 j 07:15	23° Z 59'08		evening set	-4418 Apr 28 j 15:21	17° Y 01'17	
	-4424 Apr 25 j 15:24	0° \approx					
retrograde	-4424 Jun 19 j 11:08	2° \approx 34'07		conjunction	-4418 May 16 j 18:56	19° Y 21'08	-1°28'32
	-4424 Aug 14 j 12:42	30° R Z		minimum elong	-4418 May 16 j 19:00	19° Y 21'09	1°28'28
opposition	-4424 Aug 26 j 07:34	29° Z 02'11	-2°38'02	max. Earth dist.	-4418 May 17 j 14:56	19° Y 27'36	10.08591 AU
min. Earth dist.	-4424 Aug 26 j 02:31	29° Z 03'14	7.92014 AU	morning rise	-4418 Jun 03 j 20:04	21° Y 40'10	
direct	-4424 Oct 31 j 04:18	25° Z 34'45		retrograde	-4418 Sep 14 j 21:42	29° Y 41'55	
	-4423 Jan 10 j 13:33	0° \approx		opposition	-4418 Nov 20 j 08:02	26° Y 15'06	-1°32'39
evening set	-4423 Feb 10 j 23:20	3° \approx 50'15		min. Earth dist.	-4418 Nov 19 j 17:56	26° Y 18'00	8.14972 AU
				direct	-4417 Jan 27 j 02:55	22° Y 45'34	
conjunction	-4423 Feb 28 j 18:23	6° \approx 11'25	-2°13'35		-4417 May 06 j 01:44	0° Z	
minimum elong	-4423 Feb 28 j 18:20	6° \approx 11'24	2°13'45	evening set	-4417 May 13 j 10:56	0° Z 54'40	
max. Earth dist.	-4423 Mar 01 j 02:28	6° \approx 14'06	9.88687 AU				
morning rise	-4423 Mar 18 j 17:41	8° \approx 33'56		conjunction	-4417 May 31 j 12:46	3° Z 11'52	-0°59'03
	-4423 May 15 j 09:47	15° \approx		minimum elong	-4417 May 31 j 12:49	3° Z 11'53	0°58'57
retrograde	-4423 Jul 04 j 16:39	17° \approx 12'54		max. Earth dist.	-4417 Jun 01 j 06:46	3° Z 17'35	10.21874 AU
	-4423 Aug 24 j 19:27	15° R \approx		morning rise	-4417 Jun 18 j 11:06	5° Z 27'55	
opposition	-4423 Sep 10 j 01:02	13° \approx 40'39	-2°54'30	retrograde	-4417 Sep 28 j 07:27	13° Z 16'00	
min. Earth dist.	-4423 Sep 09 j 16:59	13° \approx 42'20	7.86625 AU	opposition	-4417 Dec 03 j 23:25	9° Z 51'09	-0°54'00
direct	-4423 Nov 14 j 19:57	10° \approx 12'04		min. Earth dist.	-4417 Dec 03 j 10:58	9° Z 53'40	8.29048 AU
	-4422 Jan 28 j 13:32	15° \approx		direct	-4416 Feb 10 j 11:35	6° Z 22'25	
evening set	-4422 Feb 26 j 11:25	18° \approx 34'19		evening set	-4416 May 26 j 18:38	14° Z 21'57	
					-4416 May 31 j 22:00	15° Z	
conjunction	-4422 Mar 16 j 09:42	20° \approx 56'55	-2°22'15				
minimum elong	-4422 Mar 16 j 09:41	20° \approx 56'55	2°22'23	conjunction	-4416 Jun 13 j 17:25	16° Z 36'01	-0°27'09
max. Earth dist.	-4422 Mar 16 j 22:15	21° \approx 01'06	9.85115 AU	minimum elong	-4416 Jun 13 j 17:26	16° Z 36'02	0°27'00
morning rise	-4422 Apr 03 j 11:11	23° \approx 20'30		max. Earth dist.	-4416 Jun 14 j 08:23	16° Z 40'42	10.36644 AU
	-4422 Jun 02 j 16:17	0° X		morning rise	-4416 Jul 01 j 11:56	18° Z 48'42	
retrograde	-4422 Jul 19 j 21:01	1° X 59'19		retrograde	-4416 Oct 10 j 06:50	26° Z 23'29	
	-4422 Sep 05 j 17:59	30° R \approx		opposition	-4416 Dec 16 j 06:10	23° Z 00'35	-0°13'51
opposition	-4422 Sep 24 j 19:33	28° \approx 27'15	-2°59'35	min. Earth dist.	-4416 Dec 15 j 19:35	23° Z 02'41	8.44209 AU
min. Earth dist.	-4422 Sep 24 j 08:35	28° \approx 29'33	7.85022 AU	direct	-4415 Feb 23 j 11:16	19° Z 32'52	
direct	-4422 Nov 29 j 16:51	24° \approx 57'47		asc. node	-4415 Apr 26 j 10:40	22° Z 35'17	
	-4421 Feb 14 j 18:22	0° X		evening set	-4415 Jun 09 j 13:49	27° Z 22'14	
evening set	-4421 Mar 14 j 04:05	3° X 23'44					
				conjunction	-4415 Jun 27 j 08:34	29° Z 32'55	0°05'18
conjunction	-4421 Apr 01 j 05:08	5° X 46'58	-2°21'36	minimum elong	-4415 Jun 27 j 08:34	29° Z 32'55	0°05'28
minimum elong	-4421 Apr 01 j 05:10	5° X 46'59	2°21'41	behind sun begin	-4415 Jun 27 j 01:36	29° Z 30'47	
max. Earth dist.	-4421 Apr 01 j 21:21	5° X 52'22	9.85471 AU	behind sun end	-4415 Jun 27 j 15:31	29° Z 35'02	
morning rise	-4421 Apr 19 j 08:02	8° X 10'45		max. Earth dist.	-4415 Jun 27 j 20:03	29° Z 36'26	10.52034 AU
retrograde	-4421 Aug 03 j 21:07	16° X 45'04			-4415 Jul 01 j 00:26	0° II	
opposition	-4421 Oct 09 j 12:23	13° X 13'42	-2°52'43	morning rise	-4415 Jul 14 j 22:29	1° II 42'03	
min. Earth dist.	-4421 Oct 08 j 23:07	13° X 16'30	7.87332 AU	retrograde	-4415 Oct 22 j 19:34	9° II 04'36	
direct	-4421 Dec 14 j 15:43	9° X 43'40		opposition	-4415 Dec 29 j 04:24	5° II 43'30	0°25'34
evening set	-4420 Mar 28 j 21:00	18° X 09'56		min. Earth dist.	-4415 Dec 28 j 19:47	5° II 45'12	8.59587 AU
				direct	-4414 Mar 09 j 02:07	2° II 16'57	
conjunction	-4420 Apr 16 j 00:01	20° X 32'55	-2°11'40	evening set	-4414 Jun 22 j 20:33	9° II 56'15	
minimum elong	-4420 Apr 16 j 00:05	20° X 32'56	2°11'43				
max. Earth dist.	-4420 Apr 16 j 18:49	20° X 39'08	9.89744 AU	conjunction	-4414 Jul 10 j 10:36	12° II 03'30	0°36'24
morning rise	-4420 May 04 j 03:24	22° X 55'57		minimum elong	-4414 Jul 10 j 10:34	12° II 03'29	0°36'36
	-4420 Jul 10 j 01:49	0° Y		max. Earth dist.	-4414 Jul 10 j 18:43	12° II 05'57	10.67181 AU
retrograde	-4420 Aug 17 j 15:11	1° Y 21'57		morning rise	-4414 Jul 27 j 19:21	14° II 09'09	
	-4420 Sep 25 j 12:54	30° R X		retrograde	-4414 Nov 04 j 00:15	21° II 21'05	
min. Earth dist.	-4420 Oct 22 j 10:38	27° X 54'51	7.93407 AU	opposition	-4413 Jan 10 j 19:08	18° II 01'38	1°02'24
opposition	-4420 Oct 23 j 01:26	27° X 51'46	-2°34'38	min. Earth dist.	-4413 Jan 10 j 13:27	18° II 02'44	8.74336 AU
direct	-4420 Dec 28 j 14:48	24° X 21'32		direct	-4413 Mar 22 j 07:29	14° II 36'20	
	-4419 Mar 22 j 04:02	0° Y		evening set	-4413 Jul 05 j 15:33	22° II 06'12	
evening set	-4419 Apr 13 j 09:49	2° Y 44'43					
				conjunction	-4413 Jul 23 j 00:26	24° II 10'10	1°05'02
conjunction	-4419 May 01 j 13:45	5° Y 06'33	-1°53'26	minimum elong	-4413 Jul 23 j 00:23	24° II 10'09	1°05'14
minimum elong	-4419 May 01 j 13:49	5° Y 06'34	1°53'25	max. Earth dist.	-4413 Jul 23 j 04:59	24° II 11'32	10.81300 AU
max. Earth dist.	-4419 May 02 j 09:57	5° Y 13'10	9.97634 AU	morning rise	-4413 Aug 09 j 03:49	26° II 12'34	
morning rise	-4419 May 19 j 16:33	7° Y 27'58			-4413 Sep 13 j 08:47	0° Z	
retrograde	-4419 Sep 01 j 00:04	15° Y 42'45		retrograde	-4413 Nov 15 j 23:12	3° Z 15'46	

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Attention, astronomical year style is used: The year -4412 in astronomical counting style is the year 4413 BCE in historical counting style.

	-4412 Jan 22 j 15:42	30° \mathbb{R} II		opposition	-4406 Apr 02 j 04:36	7° \mathbb{M} 03'55	2°54'48
opposition	-4412 Jan 23 j 03:24	29° \mathbb{II} 57'46	1°35'20	min. Earth dist.	-4406 Apr 02 j 17:56	7° \mathbb{M} 01'29	9.20790 AU
min. Earth dist.	-4412 Jan 23 j 01:24	29° \mathbb{II} 58'09	8.87776 AU	direct	-4406 Jun 12 j 19:22	3° \mathbb{M} 45'01	
direct	-4412 Apr 03 j 02:08	26° \mathbb{II} 33'45		evening set	-4406 Sep 22 j 03:49	10° \mathbb{M} 40'42	
	-4412 Jun 10 j 02:25	0° \mathbb{S}					
evening set	-4412 Jul 17 j 00:02	3° \mathbb{S} 55'10		conjunction	-4406 Oct 08 j 12:30	12° \mathbb{M} 34'04	2°20'38
				minimum elong	-4406 Oct 08 j 12:32	12° \mathbb{M} 34'05	2°20'42
conjunction	-4412 Aug 03 j 03:34	5° \mathbb{S} 56'10	1°30'10	max. Earth dist.	-4406 Oct 07 j 21:01	12° \mathbb{M} 29'34	11.18923 AU
minimum elong	-4412 Aug 03 j 03:31	5° \mathbb{S} 56'09	1°30'22	morning rise	-4406 Oct 24 j 20:15	14° \mathbb{M} 27'15	
max. Earth dist.	-4412 Aug 03 j 03:46	5° \mathbb{S} 56'14	10.93835 AU	retrograde	-4405 Feb 02 j 04:21	21° \mathbb{M} 20'31	
morning rise	-4412 Aug 20 j 01:57	7° \mathbb{S} 55'42		opposition	-4405 Apr 14 j 00:08	18° \mathbb{M} 03'27	2°46'08
retrograde	-4412 Nov 26 j 13:39	14° \mathbb{S} 52'05		min. Earth dist.	-4405 Apr 14 j 13:50	18° \mathbb{M} 00'57	9.16786 AU
opposition	-4411 Feb 03 j 06:14	11° \mathbb{S} 35'15	2°03'25	direct	-4405 Jun 24 j 08:27	14° \mathbb{M} 44'50	
min. Earth dist.	-4411 Feb 03 j 07:53	11° \mathbb{S} 34'56	8.99437 AU	evening set	-4405 Oct 03 j 03:50	21° \mathbb{M} 40'54	
direct	-4411 Apr 15 j 14:31	8° \mathbb{S} 12'26					
evening set	-4411 Jul 28 j 23:08	15° \mathbb{S} 26'29		conjunction	-4405 Oct 19 j 12:42	23° \mathbb{M} 35'01	2°10'49
				minimum elong	-4405 Oct 19 j 12:45	23° \mathbb{M} 35'01	2°10'51
conjunction	-4411 Aug 14 j 21:35	17° \mathbb{S} 24'54	1°51'05	max. Earth dist.	-4405 Oct 18 j 20:45	23° \mathbb{M} 30'21	11.13605 AU
minimum elong	-4411 Aug 14 j 21:33	17° \mathbb{S} 24'53	1°51'18	morning rise	-4405 Nov 04 j 21:27	25° \mathbb{M} 29'12	
max. Earth dist.	-4411 Aug 14 j 17:21	17° \mathbb{S} 23'39	11.04394 AU		-4405 Dec 19 j 09:37	0° \mathbb{S}	
morning rise	-4411 Aug 31 j 15:32	19° \mathbb{S} 22'00		retrograde	-4404 Feb 13 j 23:31	2° \mathbb{S} 27'54	
retrograde	-4411 Dec 08 j 01:19	26° \mathbb{S} 13'29			-4404 Apr 13 j 10:11	30° \mathbb{R} \mathbb{M}	
opposition	-4410 Feb 15 j 04:44	22° \mathbb{S} 57'25	2°25'59	opposition	-4404 Apr 24 j 22:49	29° \mathbb{M} 09'47	2°31'13
min. Earth dist.	-4410 Feb 15 j 08:58	22° \mathbb{S} 56'38	9.08944 AU	min. Earth dist.	-4404 Apr 25 j 13:12	29° \mathbb{M} 07'09	9.10118 AU
direct	-4410 Apr 27 j 21:06	19° \mathbb{S} 35'43		direct	-4404 Jul 04 j 20:37	25° \mathbb{M} 51'15	
evening set	-4410 Aug 09 j 14:22	26° \mathbb{S} 43'33			-4404 Sep 17 j 09:32	0° \mathbb{S}	
				evening set	-4404 Oct 13 j 06:25	2° \mathbb{S} 49'14	
conjunction	-4410 Aug 26 j 08:24	28° \mathbb{S} 39'51	2°07'18				
minimum elong	-4410 Aug 26 j 08:22	28° \mathbb{S} 39'51	2°07'30	conjunction	-4404 Oct 29 j 16:17	4° \mathbb{S} 44'38	1°55'56
max. Earth dist.	-4410 Aug 26 j 01:21	28° \mathbb{S} 37'48	11.12647 AU	minimum elong	-4404 Oct 29 j 16:20	4° \mathbb{S} 44'39	1°55'56
	-4410 Sep 06 j 20:16	0° \mathbb{Q}		max. Earth dist.	-4404 Oct 28 j 23:04	4° \mathbb{S} 39'33	11.05738 AU
morning rise	-4410 Sep 11 j 22:23	0° \mathbb{Q} 35'01		morning rise	-4404 Nov 15 j 03:12	6° \mathbb{S} 40'24	
retrograde	-4410 Dec 19 j 10:52	7° \mathbb{Q} 23'22		retrograde	-4403 Feb 25 j 01:19	13° \mathbb{S} 46'06	
opposition	-4409 Feb 27 j 00:11	4° \mathbb{Q} 07'46	2°42'36	opposition	-4403 May 07 j 01:38	10° \mathbb{S} 26'46	2°10'15
min. Earth dist.	-4409 Feb 27 j 06:37	4° \mathbb{Q} 06'35	9.15996 AU	min. Earth dist.	-4403 May 07 j 16:44	10° \mathbb{S} 23'59	9.01000 AU
direct	-4409 May 09 j 20:00	0° \mathbb{Q} 47'03		direct	-4403 Jul 16 j 12:00	7° \mathbb{S} 08'05	
evening set	-4409 Aug 20 j 23:13	7° \mathbb{Q} 49'50		evening set	-4403 Oct 24 j 13:16	14° \mathbb{S} 09'32	
				max. Earth dist.	-4403 Nov 09 j 07:43	16° \mathbb{S} 01'34	10.95571 AU
conjunction	-4409 Sep 06 j 13:36	9° \mathbb{Q} 44'34	2°18'30				
minimum elong	-4409 Sep 06 j 13:34	9° \mathbb{Q} 44'34	2°18'41	conjunction	-4403 Nov 10 j 01:05	16° \mathbb{S} 06'45	1°36'16
max. Earth dist.	-4409 Sep 06 j 04:24	9° \mathbb{Q} 41'54	11.18346 AU	minimum elong	-4403 Nov 10 j 01:08	16° \mathbb{S} 06'46	1°36'13
morning rise	-4409 Sep 23 j 00:24	11° \mathbb{Q} 38'21		morning rise	-4403 Nov 26 j 14:59	18° \mathbb{S} 04'39	
	-4409 Oct 24 j 22:23	15° \mathbb{Q}		retrograde	-4402 Mar 09 j 09:29	25° \mathbb{S} 18'56	
retrograde	-4409 Dec 30 j 19:33	18° \mathbb{Q} 25'21		opposition	-4402 May 19 j 10:01	21° \mathbb{S} 58'10	1°43'38
opposition	-4408 Mar 09 j 17:58	15° \mathbb{Q} 09'52	2°53'01	min. Earth dist.	-4402 May 20 j 00:44	21° \mathbb{S} 55'25	8.89734 AU
min. Earth dist.	-4408 Mar 10 j 03:00	15° \mathbb{Q} 08'12	9.20391 AU	direct	-4402 Jul 28 j 07:05	18° \mathbb{S} 39'09	
	-4408 Mar 11 j 23:45	15° \mathbb{R} \mathbb{Q}		evening set	-4402 Nov 05 j 02:14	25° \mathbb{S} 45'33	
direct	-4408 May 20 j 14:44	11° \mathbb{Q} 49'56					
	-4408 Jul 25 j 04:59	15° \mathbb{Q}		conjunction	-4402 Nov 21 j 16:54	27° \mathbb{S} 45'05	1°12'15
evening set	-4408 Aug 31 j 03:13	18° \mathbb{Q} 48'59		minimum elong	-4402 Nov 21 j 16:57	27° \mathbb{S} 45'06	1°12'10
				max. Earth dist.	-4402 Nov 21 j 01:19	27° \mathbb{S} 40'23	10.83441 AU
conjunction	-4408 Sep 16 j 14:40	20° \mathbb{Q} 42'40	2°24'30	morning rise	-4402 Dec 08 j 10:21	29° \mathbb{S} 45'33	
minimum elong	-4408 Sep 16 j 14:39	20° \mathbb{Q} 42'40	2°24'39		-4402 Dec 10 j 11:20	0° \mathbb{M}	
max. Earth dist.	-4408 Sep 16 j 02:33	20° \mathbb{Q} 39'10	11.21331 AU	retrograde	-4401 Mar 22 j 04:06	7° \mathbb{M} 09'56	
morning rise	-4408 Oct 02 j 23:27	22° \mathbb{Q} 35'40		opposition	-4401 Jun 01 j 00:54	3° \mathbb{M} 47'33	1°11'55
retrograde	-4407 Jan 10 j 03:43	29° \mathbb{Q} 23'02		min. Earth dist.	-4401 Jun 01 j 13:40	3° \mathbb{M} 45'08	8.76729 AU
opposition	-4407 Mar 21 j 11:06	26° \mathbb{Q} 07'20	2°57'06	direct	-4401 Aug 09 j 08:18	0° \mathbb{M} 28'00	
min. Earth dist.	-4407 Mar 21 j 22:57	26° \mathbb{Q} 05'10	9.22005 AU	evening set	-4401 Nov 16 j 23:40	7° \mathbb{M} 40'53	
direct	-4407 Jun 01 j 05:30	22° \mathbb{Q} 48'01					
evening set	-4407 Sep 11 j 04:15	29° \mathbb{Q} 44'40		conjunction	-4401 Dec 03 j 17:43	9° \mathbb{M} 43'09	0°44'32
	-4407 Sep 13 j 10:12	0° \mathbb{M}		minimum elong	-4401 Dec 03 j 17:45	9° \mathbb{M} 43'10	0°44'24
				max. Earth dist.	-4401 Dec 03 j 03:55	9° \mathbb{M} 38'56	10.69803 AU
conjunction	-4407 Sep 27 j 13:42	1° \mathbb{M} 37'54	2°25'13	morning rise	-4401 Dec 20 j 15:17	11° \mathbb{M} 46'37	
minimum elong	-4407 Sep 27 j 13:43	1° \mathbb{M} 37'54	2°25'19		-4400 Jan 18 j 04:03	15° \mathbb{M}	
max. Earth dist.	-4407 Sep 26 j 23:00	1° \mathbb{M} 33'38	11.21524 AU	retrograde	-4400 Apr 03 j 10:04	19° \mathbb{M} 22'11	
morning rise	-4407 Oct 13 j 21:32	3° \mathbb{M} 30'42		opposition	-4400 Jun 12 j 22:58	15° \mathbb{M} 58'09	0°36'00
retrograde	-4406 Jan 21 j 13:13	10° \mathbb{M} 20'10		min. Earth dist.	-4400 Jun 13 j 09:35	15° \mathbb{M} 56'07	8.62501 AU

Attention, astronomical year style is used: The year -4400 in astronomical counting style is the year 4401 BCE in historical counting style.

	-4400 Jun 25 j 19:55	15° \mathbb{M}	
direct	-4400 Aug 20 j 13:58	12° \mathbb{M} 37'53	
	-4400 Oct 12 j 14:42	15° \mathbb{M}	
evening set	-4400 Nov 28 j 07:20	19° \mathbb{M} 58'42	
conjunction	-4400 Dec 15 j 05:05	22° \mathbb{M} 04'01	0°14'01
minimum elong	-4400 Dec 15 j 05:05	22° \mathbb{M} 04'01	0°13'52
behind sun begin	-4400 Dec 15 j 01:20	22° \mathbb{M} 02'51	
behind sun end	-4400 Dec 15 j 08:51	22° \mathbb{M} 05'10	
max. Earth dist.	-4400 Dec 14 j 16:55	22° \mathbb{M} 00'14	10.55223 AU
morning rise	-4399 Jan 01 j 07:12	24° \mathbb{M} 10'45	
	-4399 Feb 26 j 13:03	0° \mathbb{A}	
retrograde	-4399 Apr 17 j 00:18	1° \mathbb{A} 58'22	
desc. node	-4399 May 29 j 21:03	0° \mathbb{A} 31'34	
	-4399 Jun 06 j 18:56	30° \mathbb{M}	
opposition	-4399 Jun 26 j 05:06	28° \mathbb{M} 32'41	-0°02'53
min. Earth dist.	-4399 Jun 26 j 13:34	28° \mathbb{M} 31'02	8.47674 AU
direct	-4399 Sep 02 j 03:32	25° \mathbb{M} 11'28	
	-4399 Nov 18 j 07:10	0° \mathbb{A}	
evening set	-4399 Dec 11 j 02:42	2° \mathbb{A} 41'34	
conjunction	-4399 Dec 28 j 04:22	4° \mathbb{A} 50'05	-0°18'08
minimum elong	-4399 Dec 28 j 04:20	4° \mathbb{A} 50'04	0°18'19
max. Earth dist.	-4399 Dec 27 j 18:40	4° \mathbb{A} 47'01	10.40364 AU