

Attention, astronomical year style is used: The year -12900 in astronomical counting style is the year 12901 BCE in historical counting style.

retrograde	-12900 Apr 05 j 01:56	16° $\mathbb{M}$ 10'38		opposition	-12895 Nov 17 j 13:02	28° $\approx$ 52'33	0°40'53
min. Earth dist.	-12900 Jun 03 j 07:18	11° $\mathbb{M}$ 11'53	4.07352 AU	min. Earth dist.	-12895 Nov 18 j 05:57	28° $\approx$ 47'06	4.32443 AU
opposition	-12900 Jun 04 j 00:46	11° $\mathbb{M}$ 05'58	-1°12'59	direct	-12894 Jan 18 j 21:47	23° $\approx$ 51'21	
direct	-12900 Aug 01 j 05:34	6° $\mathbb{M}$ 08'46			-12894 Mar 27 j 12:31	0° $\mathbb{H}$	
evening set	-12900 Dec 04 j 08:01	25° $\mathbb{M}$ 13'06		evening set	-12894 May 26 j 12:10	12° $\mathbb{H}$ 00'41	
				max. Earth dist.	-12894 Jun 07 j 04:52	14° $\mathbb{H}$ 37'23	6.33222 AU
conjunction	-12900 Dec 18 j 00:10	28° $\mathbb{M}$ 23'53	-1°14'56	conjunction	-12894 Jun 08 j 05:00	14° $\mathbb{H}$ 50'55	0°55'45
minimum elong	-12900 Dec 18 j 00:03	28° $\mathbb{M}$ 23'49	1°14'54	minimum elong	-12894 Jun 08 j 04:55	14° $\mathbb{H}$ 50'52	0°55'31
max. Earth dist.	-12900 Dec 19 j 01:22	28° $\mathbb{M}$ 38'33	6.07370 AU	morning rise	-12894 Jun 20 j 19:03	17° $\mathbb{H}$ 39'48	
	-12900 Dec 24 j 21:20	0° $\mathbb{L}$			-12894 Aug 21 j 22:46	0° $\mathbb{Y}$	
morning rise	-12900 Dec 31 j 18:31	1° $\mathbb{L}$ 35'42		retrograde	-12894 Oct 20 j 09:12	5° $\mathbb{Y}$ 04'38	
retrograde	-12899 May 10 j 13:29	21° $\mathbb{L}$ 17'05		opposition	-12894 Dec 20 j 08:41	0° $\mathbb{Y}$ 12'45	1°54'26
opposition	-12899 Jul 08 j 19:09	16° $\mathbb{L}$ 12'48	-2°20'49	min. Earth dist.	-12894 Dec 21 j 01:21	0° $\mathbb{Y}$ 07'28	4.33122 AU
min. Earth dist.	-12899 Jul 08 j 04:38	16° $\mathbb{L}$ 17'48	4.08701 AU		-12894 Dec 22 j 00:54	30° $\mathbb{R}$ $\mathbb{H}$	
direct	-12899 Sep 05 j 06:36	11° $\mathbb{L}$ 12'10		direct	-12893 Feb 20 j 18:03	25° $\mathbb{H}$ 14'41	
	-12898 Jan 08 j 13:36	0° $\mathbb{M}$			-12893 Apr 20 j 06:32	0° $\mathbb{Y}$	
evening set	-12898 Jan 10 j 14:07	0° $\mathbb{M}$ 27'45		evening set	-12893 Jun 26 j 16:20	13° $\mathbb{Y}$ 13'55	
				max. Earth dist.	-12893 Jul 08 j 04:56	15° $\mathbb{Y}$ 49'31	6.31847 AU
conjunction	-12898 Jan 24 j 07:17	3° $\mathbb{M}$ 37'09	-1°44'56	conjunction	-12893 Jul 09 j 01:48	16° $\mathbb{Y}$ 01'17	1°35'37
minimum elong	-12898 Jan 24 j 07:14	3° $\mathbb{M}$ 37'07	1°45'24	minimum elong	-12893 Jul 09 j 01:43	16° $\mathbb{Y}$ 01'15	1°35'52
max. Earth dist.	-12898 Jan 25 j 01:01	3° $\mathbb{M}$ 47'22	6.10813 AU	morning rise	-12893 Jul 21 j 10:18	18° $\mathbb{Y}$ 48'11	
morning rise	-12898 Feb 07 j 00:12	6° $\mathbb{M}$ 46'21			-12893 Sep 14 j 02:43	0° $\mathbb{B}$	
	-12898 Mar 16 j 12:21	15° $\mathbb{M}$		retrograde	-12893 Nov 22 j 04:59	6° $\mathbb{B}$ 35'29	
retrograde	-12898 Jun 14 j 01:11	25° $\mathbb{M}$ 54'02		opposition	-12892 Jan 22 j 17:46	1° $\mathbb{B}$ 42'01	2°34'56
opposition	-12898 Aug 11 j 20:48	20° $\mathbb{M}$ 52'24	-2°37'21	min. Earth dist.	-12892 Jan 23 j 05:12	1° $\mathbb{B}$ 38'24	4.29906 AU
min. Earth dist.	-12898 Aug 11 j 14:33	20° $\mathbb{M}$ 54'32	4.13974 AU		-12892 Feb 05 j 11:08	30° $\mathbb{R}$ $\mathbb{Y}$	
direct	-12898 Oct 10 j 06:13	15° $\mathbb{M}$ 49'08		direct	-12892 Mar 24 j 12:42	26° $\mathbb{Y}$ 46'49	
	-12897 Jan 24 j 17:19	0° $\mathbb{X}$			-12892 May 10 j 11:50	0° $\mathbb{B}$	
evening set	-12897 Feb 16 j 05:10	4° $\mathbb{X}$ 59'04		evening set	-12892 Jul 26 j 18:19	14° $\mathbb{B}$ 45'11	
					-12892 Jul 27 j 20:28	15° $\mathbb{B}$	
conjunction	-12897 Mar 01 j 19:44	8° $\mathbb{X}$ 04'35	-1°37'24	conjunction	-12892 Aug 08 j 02:26	17° $\mathbb{B}$ 33'38	1°47'41
minimum elong	-12897 Mar 01 j 19:48	8° $\mathbb{X}$ 04'37	1°38'11	minimum elong	-12892 Aug 08 j 02:27	17° $\mathbb{B}$ 33'38	1°48'18
max. Earth dist.	-12897 Mar 01 j 21:20	8° $\mathbb{X}$ 05'29	6.17400 AU	max. Earth dist.	-12892 Aug 07 j 17:04	17° $\mathbb{B}$ 28'17	6.26939 AU
morning rise	-12897 Mar 15 j 08:26	11° $\mathbb{X}$ 08'59		morning rise	-12892 Aug 20 j 11:10	20° $\mathbb{B}$ 22'33	
retrograde	-12897 Jul 17 j 05:36	29° $\mathbb{X}$ 31'41			-12892 Oct 04 j 18:29	0° $\mathbb{I}$	
opposition	-12897 Sep 14 j 04:24	24° $\mathbb{X}$ 33'45	-1°59'58	retrograde	-12892 Dec 25 j 01:53	8° $\mathbb{I}$ 46'06	
min. Earth dist.	-12897 Sep 14 j 07:41	24° $\mathbb{X}$ 32'39	4.21222 AU	opposition	-12891 Feb 24 j 19:50	3° $\mathbb{I}$ 49'41	2°29'23
direct	-12897 Nov 13 j 19:16	19° $\mathbb{X}$ 29'25		min. Earth dist.	-12891 Feb 24 j 22:09	3° $\mathbb{I}$ 48'57	4.23667 AU
	-12896 Feb 12 j 03:24	0° $\mathbb{Z}$		direct	-12891 Mar 31 j 09:53	30° $\mathbb{R}$ $\mathbb{B}$	
evening set	-12896 Mar 22 j 06:17	8° $\mathbb{Z}$ 20'17			-12891 Apr 26 j 13:26	28° $\mathbb{B}$ 56'27	
				evening set	-12891 May 22 j 13:41	0° $\mathbb{I}$	
conjunction	-12896 Apr 04 j 15:57	11° $\mathbb{Z}$ 20'53	-0°57'32		-12891 Aug 27 j 12:24	17° $\mathbb{I}$ 02'46	
minimum elong	-12896 Apr 04 j 16:02	11° $\mathbb{Z}$ 20'56	0°58'23	conjunction	-12891 Sep 09 j 02:09	19° $\mathbb{I}$ 56'34	1°26'53
max. Earth dist.	-12896 Apr 04 j 03:36	11° $\mathbb{Z}$ 13'56	6.24820 AU	minimum elong	-12891 Sep 09 j 02:14	19° $\mathbb{I}$ 56'37	1°27'43
morning rise	-12896 Apr 17 j 22:24	14° $\mathbb{Z}$ 19'48		max. Earth dist.	-12891 Sep 09 j 05:12	19° $\mathbb{I}$ 58'19	6.19879 AU
	-12896 Jul 12 j 10:23	0° $\approx$		morning rise	-12891 Sep 21 j 18:34	22° $\mathbb{I}$ 51'50	
retrograde	-12896 Aug 17 j 12:23	2° $\approx$ 03'24			-12891 Oct 24 j 02:10	0° $\mathbb{E}$	
	-12896 Sep 22 j 17:53	30° $\mathbb{R}$ $\mathbb{Z}$		retrograde	-12890 Jan 29 j 02:48	11° $\mathbb{E}$ 55'57	
opposition	-12896 Oct 15 j 22:56	27° $\mathbb{Z}$ 08'58	-0°45'30	opposition	-12890 Mar 31 j 13:42	6° $\mathbb{E}$ 55'51	1°35'48
min. Earth dist.	-12896 Oct 16 j 11:07	27° $\mathbb{Z}$ 04'59	4.28076 AU	min. Earth dist.	-12890 Mar 31 j 06:11	6° $\mathbb{E}$ 58'18	4.16225 AU
direct	-12896 Dec 16 j 16:30	22° $\mathbb{Z}$ 05'31		direct	-12890 May 30 j 03:12	2° $\mathbb{E}$ 02'49	
	-12895 Mar 04 j 05:37	0° $\approx$		evening set	-12890 Sep 29 j 16:04	20° $\mathbb{E}$ 25'28	
evening set	-12895 Apr 24 j 13:34	10° $\approx$ 33'16		conjunction	-12890 Oct 12 j 16:48	23° $\mathbb{E}$ 27'12	0°37'17
				minimum elong	-12890 Oct 12 j 16:52	23° $\mathbb{E}$ 27'15	0°38'04
conjunction	-12895 May 07 j 15:31	13° $\approx$ 28'29	-0°00'36	max. Earth dist.	-12890 Oct 13 j 10:17	23° $\mathbb{E}$ 37'22	6.12817 AU
minimum elong	-12895 May 07 j 15:32	13° $\approx$ 28'29	0°01'12	morning rise	-12890 Oct 25 j 21:05	26° $\mathbb{E}$ 30'55	
behind sun begin	-12895 May 07 j 07:26	13° $\approx$ 23'59			-12890 Nov 10 j 03:45	0° $\mathbb{O}$	
behind sun end	-12895 May 07 j 23:37	13° $\approx$ 32'59		conjunction	-12889 Feb 06 j 21:59	15° $\mathbb{O}$	
max. Earth dist.	-12895 May 06 j 16:47	13° $\approx$ 15'46	6.30658 AU	minimum elong	-12889 Mar 05 j 23:28	16° $\mathbb{O}$ 07'55	
asc. node	-12895 May 11 j 09:52	14° $\approx$ 19'01			-12889 Apr 01 j 18:28	15° $\mathbb{R}$ $\mathbb{O}$	
	-12895 May 14 j 11:10	15° $\approx$		retrograde			
morning rise	-12895 May 20 j 14:09	16° $\approx$ 21'57					
	-12895 Jul 30 j 08:44	0° $\mathbb{H}$					
retrograde	-12895 Sep 18 j 08:15	3° $\mathbb{H}$ 44'50					
	-12895 Nov 08 j 17:20	30° $\mathbb{R}$ $\approx$					

Attention, astronomical year style is used: The year -12889 in astronomical counting style is the year 12890 BCE in historical counting style.

opposition	-12889 May 05 j 16:47	11° $\Omega$ 04'40	0°07'55			-12883 Feb 07 j 13:51	0° $\approx$	
min. Earth dist.	-12889 May 05 j 02:00	11° $\Omega$ 09'36	4.10057 AU	asc. node		-12883 Mar 20 j 19:46	6° $\approx$ 49'13	
desc. node	-12889 Jun 07 j 06:06	7° $\Omega$ 17'40				-12883 Apr 28 j 14:46	15° $\approx$	
direct	-12889 Jul 03 j 06:59	6° $\Omega$ 10'02		evening set		-12883 Apr 29 j 02:56	15° $\approx$ 06'45	
	-12889 Sep 19 j 08:40	15° $\Omega$		max. Earth dist.		-12883 May 11 j 05:18	17° $\approx$ 48'44	6.31134 AU
evening set	-12889 Nov 03 j 17:00	24° $\Omega$ 55'03						
				conjunction		-12883 May 12 j 03:41	18° $\approx$ 01'16	0°07'50
conjunction	-12889 Nov 17 j 04:04	28° $\Omega$ 03'27	-0°26'17	minimum elong		-12883 May 12 j 03:39	18° $\approx$ 01'15	0°07'16
minimum elong	-12889 Nov 17 j 04:00	28° $\Omega$ 03'25	0°25'50	behind sun begin		-12883 May 11 j 20:16	17° $\approx$ 57'08	
max. Earth dist.	-12889 Nov 18 j 04:37	28° $\Omega$ 17'48	6.08141 AU	behind sun end		-12883 May 12 j 11:03	18° $\approx$ 05'22	
	-12889 Nov 25 j 11:47	0° $\Pi$		morning rise		-12883 May 25 j 01:02	20° $\approx$ 54'02	
morning rise	-12889 Nov 30 j 18:39	1° $\Pi$ 13'40				-12883 Jul 07 j 13:18	0° $\text{H}$	
retrograde	-12888 Apr 09 j 22:25	21° $\Pi$ 04'25		retrograde		-12883 Sep 22 j 20:07	8° $\text{H}$ 16'00	
opposition	-12888 Jun 08 j 19:26	15° $\Pi$ 59'36	-1°24'31	opposition		-12883 Nov 22 j 03:07	3° $\text{H}$ 23'55	0°52'31
min. Earth dist.	-12888 Jun 08 j 02:10	16° $\Pi$ 05'29	4.07339 AU	min. Earth dist.		-12883 Nov 22 j 20:19	3° $\text{H}$ 18'24	4.32767 AU
direct	-12888 Aug 06 j 00:14	11° $\Pi$ 01'53				-12883 Dec 21 j 08:40	30° $\text{R}$ $\approx$	
	-12888 Dec 08 j 18:49	0° $\underline{\Omega}$		direct		-12882 Jan 23 j 13:23	28° $\approx$ 23'11	
evening set	-12888 Dec 09 j 09:22	0° $\underline{\Omega}$ 08'25		evening set		-12882 Feb 25 j 19:47	0° $\text{H}$	
						-12882 May 30 j 22:08	16° $\text{H}$ 30'26	
conjunction	-12888 Dec 23 j 02:05	3° $\underline{\Omega}$ 19'16	-1°21'00					
minimum elong	-12888 Dec 23 j 01:57	3° $\underline{\Omega}$ 19'12	1°21'03	conjunction		-12882 Jun 12 j 13:41	19° $\text{H}$ 20'03	1°02'39
max. Earth dist.	-12888 Dec 24 j 03:35	3° $\underline{\Omega}$ 34'06	6.07560 AU	minimum elong		-12882 Jun 12 j 13:36	19° $\text{H}$ 20'00	1°02'29
morning rise	-12887 Jan 05 j 20:21	6° $\underline{\Omega}$ 30'56		max. Earth dist.		-12882 Jun 11 j 13:07	19° $\text{H}$ 06'18	6.33345 AU
retrograde	-12887 May 15 j 09:25	26° $\underline{\Omega}$ 09'21		morning rise		-12882 Jun 25 j 02:49	22° $\text{H}$ 08'28	
opposition	-12887 Jul 13 j 12:02	21° $\underline{\Omega}$ 05'22	-2°26'23			-12882 Aug 01 j 03:26	0° $\text{Y}$	
min. Earth dist.	-12887 Jul 12 j 23:08	21° $\underline{\Omega}$ 09'48	4.09090 AU	retrograde		-12882 Oct 24 j 21:53	9° $\text{Y}$ 34'53	
direct	-12887 Sep 10 j 01:33	16° $\underline{\Omega}$ 04'20		opposition		-12882 Dec 24 j 23:56	4° $\text{Y}$ 42'50	2°02'27
	-12887 Dec 22 j 19:19	0° $\text{M}$		min. Earth dist.		-12882 Dec 25 j 15:47	4° $\text{Y}$ 37'48	4.33042 AU
evening set	-12886 Jan 15 j 15:59	5° $\text{M}$ 20'49				-12881 Feb 12 j 13:59	30° $\text{R}$ $\text{H}$	
				direct		-12881 Feb 25 j 08:01	29° $\text{H}$ 45'10	
conjunction	-12886 Jan 29 j 08:53	8° $\text{M}$ 29'52	-1°46'07			-12881 Mar 10 j 03:18	0° $\text{Y}$	
minimum elong	-12886 Jan 29 j 08:50	8° $\text{M}$ 29'51	1°46'38	evening set		-12881 Jul 01 j 00:19	17° $\text{Y}$ 43'09	
max. Earth dist.	-12886 Jan 29 j 23:21	8° $\text{M}$ 38'13	6.11344 AU					
morning rise	-12886 Feb 12 j 01:32	11° $\text{M}$ 38'40		conjunction		-12881 Jul 13 j 09:17	20° $\text{Y}$ 30'21	1°39'10
	-12886 Feb 26 j 21:54	15° $\text{M}$		minimum elong		-12881 Jul 13 j 09:12	20° $\text{Y}$ 30'18	1°39'28
	-12886 May 29 j 07:14	0° $\text{J}$		max. Earth dist.		-12881 Jul 12 j 15:05	20° $\text{Y}$ 20'04	6.31545 AU
retrograde	-12886 Jun 18 j 16:01	0° $\text{J}$ 41'32		morning rise		-12881 Jul 25 j 17:11	23° $\text{Y}$ 17'08	
	-12886 Jul 08 j 22:16	30° $\text{R}$ $\text{M}$				-12881 Aug 25 j 18:02	0° $\text{B}$	
opposition	-12886 Aug 16 j 11:45	25° $\text{M}$ 40'22	-2°35'09	retrograde		-12881 Nov 26 j 19:53	11° $\text{B}$ 08'06	
min. Earth dist.	-12886 Aug 16 j 06:25	25° $\text{M}$ 42'12	4.14612 AU	opposition		-12880 Jan 27 j 10:36	6° $\text{B}$ 14'20	2°37'05
direct	-12886 Oct 15 j 00:25	20° $\text{M}$ 36'50		min. Earth dist.		-12880 Jan 27 j 21:05	6° $\text{B}$ 11'01	4.29394 AU
	-12885 Jan 06 j 08:21	0° $\text{J}$		direct		-12880 Mar 29 j 03:16	1° $\text{B}$ 19'31	
evening set	-12885 Feb 21 j 03:48	9° $\text{J}$ 46'02		evening set		-12880 Jul 11 j 19:15	15° $\text{B}$	
						-12880 Jul 31 j 02:58	19° $\text{B}$ 17'47	
conjunction	-12885 Mar 06 j 17:57	12° $\text{J}$ 51'06	-1°33'30					
minimum elong	-12885 Mar 06 j 18:02	12° $\text{J}$ 51'09	1°34'19	conjunction		-12880 Aug 12 j 11:15	22° $\text{B}$ 06'36	1°46'46
max. Earth dist.	-12885 Mar 06 j 17:45	12° $\text{J}$ 50'59	6.18118 AU	minimum elong		-12880 Aug 12 j 11:16	22° $\text{B}$ 06'37	1°47'26
morning rise	-12885 Mar 20 j 05:56	15° $\text{J}$ 54'56		max. Earth dist.		-12880 Aug 12 j 02:04	22° $\text{B}$ 01'22	6.26234 AU
	-12885 May 30 j 09:42	0° $\text{B}$		morning rise		-12880 Aug 24 j 20:42	24° $\text{B}$ 56'05	
retrograde	-12885 Jul 21 j 19:55	4° $\text{B}$ 12'46				-12880 Sep 16 j 16:58	0° $\text{II}$	
	-12885 Sep 13 j 04:39	30° $\text{R}$ $\text{J}$		retrograde		-12880 Dec 29 j 20:21	13° $\text{II}$ 24'37	
opposition	-12885 Sep 18 j 18:24	29° $\text{J}$ 15'24	-1°51'17	opposition		-12879 Mar 01 j 14:16	8° $\text{II}$ 27'42	2°24'41
min. Earth dist.	-12885 Sep 18 j 23:28	29° $\text{J}$ 13'42	4.21938 AU	min. Earth dist.		-12879 Mar 01 j 15:19	8° $\text{II}$ 27'21	4.22799 AU
direct	-12885 Nov 18 j 13:14	24° $\text{J}$ 11'08		direct		-12879 May 01 j 04:29	3° $\text{II}$ 34'33	
	-12884 Jan 22 j 03:22	0° $\text{B}$		evening set		-12879 Sep 01 j 00:02	21° $\text{II}$ 42'18	
evening set	-12884 Mar 27 j 00:02	12° $\text{B}$ 59'53						
				conjunction		-12879 Sep 13 j 15:13	24° $\text{II}$ 37'05	1°21'31
conjunction	-12884 Apr 09 j 08:53	15° $\text{B}$ 59'55	-0°50'11	minimum elong		-12879 Sep 13 j 15:18	24° $\text{II}$ 37'08	1°22'22
minimum elong	-12884 Apr 09 j 08:58	15° $\text{B}$ 59'58	0°51'01	max. Earth dist.		-12879 Sep 13 j 20:55	24° $\text{II}$ 40'23	6.18943 AU
max. Earth dist.	-12884 Apr 08 j 18:59	15° $\text{B}$ 52'06	6.25496 AU	morning rise		-12879 Sep 26 j 08:59	27° $\text{II}$ 33'24	
morning rise	-12884 Apr 22 j 14:27	18° $\text{B}$ 58'14				-12879 Oct 07 j 02:47	0° $\text{E}$	
	-12884 Jun 15 j 06:28	0° $\approx$		retrograde		-12878 Feb 03 j 01:08	16° $\text{E}$ 42'26	
retrograde	-12884 Aug 21 j 23:21	6° $\approx$ 38'36		opposition		-12878 Apr 05 j 09:37	11° $\text{E}$ 41'55	1°25'11
opposition	-12884 Oct 20 j 12:35	1° $\approx$ 44'32	-0°33'30	min. Earth dist.		-12878 Apr 05 j 01:25	11° $\text{E}$ 44'36	4.15279 AU
min. Earth dist.	-12884 Oct 21 j 00:54	1° $\approx$ 40'29	4.28662 AU	direct		-12878 Jun 03 j 19:24	6° $\text{E}$ 48'47	
	-12884 Nov 03 j 02:50	30° $\text{R}$ $\text{B}$		evening set		-12878 Oct 04 j 09:21	25° $\text{E}$ 14'13	
direct	-12884 Dec 21 j 07:51	26° $\text{B}$ 41'20						

Attention, astronomical year style is used: The year -12878 in astronomical counting style is the year 12879 BCE in historical counting style.

conjunction	-12878 Oct 17 j 11:31	28° $\mathfrak{D}$ 17'01	0°28'53	conjunction	-12872 Apr 14 j 03:14	20° $\mathfrak{Z}$ 43'12	-0°42'27
minimum elong	-12878 Oct 17 j 11:35	28° $\mathfrak{D}$ 17'03	0°29'39	minimum elong	-12872 Apr 14 j 03:18	20° $\mathfrak{Z}$ 43'15	0°43'14
max. Earth dist.	-12878 Oct 18 j 04:47	28° $\mathfrak{D}$ 27'04	6.11947 AU	morning rise	-12872 Apr 27 j 07:46	23° $\mathfrak{Z}$ 40'41	
	-12878 Oct 24 j 20:21	0° $\mathfrak{Q}$			-12872 May 26 j 13:34	0° $\approx$	
morning rise	-12878 Oct 30 j 17:33	1° $\mathfrak{Q}$ 21'52		retrograde	-12872 Aug 26 j 12:36	11° $\approx$ 16'39	
	-12877 Jan 04 j 13:24	15° $\mathfrak{Q}$		opposition	-12872 Oct 25 j 03:36	6° $\approx$ 22'55	-0°21'15
retrograde	-12877 Mar 10 j 22:06	21° $\mathfrak{Q}$ 02'25		min. Earth dist.	-12872 Oct 25 j 17:09	6° $\approx$ 18'30	4.29631 AU
desc. node	-12877 Apr 18 j 10:43	18° $\mathfrak{Q}$ 45'53		direct	-12872 Dec 26 j 03:10	1° $\approx$ 19'59	
opposition	-12877 May 10 j 13:23	15° $\mathfrak{Q}$ 58'48	-0°05'22	asc. node	-12871 Jan 28 j 16:59	2° $\approx$ 59'25	
min. Earth dist.	-12877 May 09 j 21:46	16° $\mathfrak{Q}$ 04'02	4.09324 AU		-12871 Apr 12 j 01:38	15° $\approx$	
	-12877 May 17 j 22:26	15° $\mathfrak{R}$ $\mathfrak{Q}$		evening set	-12871 May 03 j 16:24	19° $\approx$ 41'25	
direct	-12877 Jul 08 j 01:01	11° $\mathfrak{Q}$ 03'45					
	-12877 Aug 26 j 22:59	15° $\mathfrak{Q}$		conjunction	-12871 May 16 j 15:53	22° $\approx$ 35'02	0°16'06
evening set	-12877 Nov 08 j 16:40	29° $\mathfrak{Q}$ 52'31		minimum elong	-12871 May 16 j 15:51	22° $\approx$ 35'01	0°15'35
	-12877 Nov 09 j 05:32	0° $\mathfrak{P}$		behind sun begin	-12871 May 16 j 13:45	22° $\approx$ 33'51	
				behind sun end	-12871 May 16 j 17:57	22° $\approx$ 36'11	
conjunction	-12877 Nov 22 j 05:01	3° $\mathfrak{P}$ 01'39	-0°34'55	max. Earth dist.	-12871 May 15 j 17:32	22° $\approx$ 22'33	6.31985 AU
minimum elong	-12877 Nov 22 j 04:57	3° $\mathfrak{P}$ 01'37	0°34'32	morning rise	-12871 May 29 j 11:58	25° $\approx$ 26'57	
max. Earth dist.	-12877 Nov 23 j 07:13	3° $\mathfrak{P}$ 16'58	6.07616 AU		-12871 Jun 19 j 09:51	0° $\mathfrak{H}$	
morning rise	-12877 Dec 05 j 20:24	6° $\mathfrak{P}$ 12'27		retrograde	-12871 Sep 27 j 05:58	12° $\mathfrak{H}$ 46'55	
retrograde	-12876 Apr 14 j 22:43	26° $\mathfrak{P}$ 03'53		opposition	-12871 Nov 26 j 17:23	7° $\mathfrak{H}$ 54'51	1°03'44
opposition	-12876 Jun 13 j 15:47	20° $\mathfrak{P}$ 59'04	-1°35'38	min. Earth dist.	-12871 Nov 27 j 09:46	7° $\mathfrak{H}$ 49'36	4.33450 AU
min. Earth dist.	-12876 Jun 12 j 23:36	21° $\mathfrak{P}$ 04'35	4.07082 AU	direct	-12870 Jan 28 j 04:04	2° $\mathfrak{H}$ 54'29	
direct	-12876 Aug 10 j 20:59	16° $\mathfrak{P}$ 00'53		evening set	-12870 Jun 04 j 07:04	20° $\mathfrak{H}$ 58'19	
	-12876 Nov 21 j 17:30	0° $\mathfrak{U}$					
evening set	-12876 Dec 14 j 13:52	5° $\mathfrak{U}$ 10'37		conjunction	-12870 Jun 16 j 21:22	23° $\mathfrak{H}$ 47'12	1°09'06
				minimum elong	-12870 Jun 16 j 21:16	23° $\mathfrak{H}$ 47'08	1°09'01
conjunction	-12876 Dec 28 j 06:48	8° $\mathfrak{U}$ 21'33	-1°26'36	max. Earth dist.	-12870 Jun 15 j 21:59	23° $\mathfrak{H}$ 34'05	6.33793 AU
minimum elong	-12876 Dec 28 j 06:41	8° $\mathfrak{U}$ 21'29	1°26'44	morning rise	-12870 Jun 29 j 09:21	26° $\mathfrak{H}$ 34'56	
max. Earth dist.	-12876 Dec 29 j 06:08	8° $\mathfrak{U}$ 35'07	6.07560 AU		-12870 Jul 14 j 22:58	0° $\mathfrak{Y}$	
morning rise	-12875 Jan 11 j 01:19	11° $\mathfrak{U}$ 33'13		retrograde	-12870 Oct 29 j 09:47	14° $\mathfrak{Y}$ 02'03	
	-12875 Apr 23 j 17:30	0° $\mathfrak{M}$		opposition	-12870 Dec 29 j 14:18	9° $\mathfrak{Y}$ 09'52	2°09'37
retrograde	-12875 May 20 j 05:45	1° $\mathfrak{M}$ 08'57		min. Earth dist.	-12870 Dec 30 j 06:21	9° $\mathfrak{Y}$ 04'48	4.33223 AU
	-12875 Jun 15 j 12:04	30° $\mathfrak{R}$ $\mathfrak{U}$		direct	-12869 Mar 01 j 22:50	4° $\mathfrak{Y}$ 12'36	
opposition	-12875 Jul 18 j 07:10	26° $\mathfrak{U}$ 05'14	-2°31'03	evening set	-12869 Jul 05 j 06:57	22° $\mathfrak{Y}$ 08'29	
min. Earth dist.	-12875 Jul 17 j 18:28	26° $\mathfrak{U}$ 09'36	4.09367 AU				
direct	-12875 Sep 14 j 22:30	21° $\mathfrak{U}$ 03'44		conjunction	-12869 Jul 17 j 15:14	24° $\mathfrak{Y}$ 55'26	1°42'04
	-12875 Dec 03 j 16:54	0° $\mathfrak{M}$		minimum elong	-12869 Jul 17 j 15:10	24° $\mathfrak{Y}$ 55'24	1°42'25
evening set	-12874 Jan 20 j 20:40	10° $\mathfrak{M}$ 21'24		max. Earth dist.	-12869 Jul 16 j 20:37	24° $\mathfrak{Y}$ 44'55	6.31413 AU
				morning rise	-12869 Jul 29 j 22:59	27° $\mathfrak{Y}$ 42'09	
conjunction	-12874 Feb 03 j 13:26	13° $\mathfrak{M}$ 30'10	-1°46'35		-12869 Aug 09 j 06:35	0° $\mathfrak{B}$	
minimum elong	-12874 Feb 03 j 13:25	13° $\mathfrak{M}$ 30'09	1°47'10		-12869 Nov 11 j 11:16	15° $\mathfrak{B}$	
max. Earth dist.	-12874 Feb 04 j 02:22	13° $\mathfrak{M}$ 37'37	6.11870 AU	retrograde	-12869 Dec 01 j 08:54	15° $\mathfrak{B}$ 36'18	
	-12874 Feb 10 j 01:36	15° $\mathfrak{M}$			-12869 Dec 21 j 08:30	15° $\mathfrak{R}$ $\mathfrak{B}$	
morning rise	-12874 Feb 17 j 05:34	16° $\mathfrak{M}$ 38'29		opposition	-12868 Feb 01 j 01:40	10° $\mathfrak{B}$ 42'08	2°38'13
	-12874 Apr 23 j 07:19	0° $\mathfrak{X}$		min. Earth dist.	-12868 Feb 01 j 10:54	10° $\mathfrak{B}$ 39'12	4.28963 AU
retrograde	-12874 Jun 21 j 11:35	5° $\mathfrak{X}$ 36'21		direct	-12868 Apr 02 j 15:09	5° $\mathfrak{B}$ 47'33	
opposition	-12874 Aug 21 j 05:39	0° $\mathfrak{X}$ 35'41	-2°31'53		-12868 Jun 24 j 13:02	15° $\mathfrak{B}$	
min. Earth dist.	-12874 Aug 21 j 02:18	0° $\mathfrak{X}$ 36'49	4.15329 AU	evening set	-12868 Aug 04 j 09:47	23° $\mathfrak{B}$ 45'37	
	-12874 Aug 25 j 14:37	30° $\mathfrak{R}$ $\mathfrak{M}$					
direct	-12874 Oct 19 j 22:37	25° $\mathfrak{M}$ 31'57		conjunction	-12868 Aug 16 j 18:42	26° $\mathfrak{B}$ 34'56	1°45'13
	-12874 Dec 13 j 23:21	0° $\mathfrak{X}$		minimum elong	-12868 Aug 16 j 18:44	26° $\mathfrak{B}$ 34'57	1°45'56
evening set	-12873 Feb 26 j 04:43	14° $\mathfrak{X}$ 39'39		max. Earth dist.	-12868 Aug 16 j 11:55	26° $\mathfrak{B}$ 31'03	6.25538 AU
				morning rise	-12868 Aug 29 j 04:42	29° $\mathfrak{B}$ 25'00	
conjunction	-12873 Mar 11 j 18:24	17° $\mathfrak{X}$ 44'11	-1°28'55		-12868 Aug 31 j 18:27	0° $\mathfrak{I}$	
minimum elong	-12873 Mar 11 j 18:30	17° $\mathfrak{X}$ 44'14	1°29'44	retrograde	-12867 Jan 03 j 14:11	17° $\mathfrak{I}$ 58'30	
max. Earth dist.	-12873 Mar 11 j 17:05	17° $\mathfrak{X}$ 43'26	6.18987 AU	opposition	-12867 Mar 06 j 07:08	13° $\mathfrak{I}$ 01'11	2°19'10
morning rise	-12873 Mar 25 j 05:37	20° $\mathfrak{X}$ 47'22		min. Earth dist.	-12867 Mar 06 j 07:59	13° $\mathfrak{I}$ 00'54	4.21872 AU
	-12873 May 07 j 09:42	0° $\mathfrak{Z}$		direct	-12867 May 05 j 18:01	8° $\mathfrak{I}$ 08'08	
retrograde	-12873 Jul 26 j 09:28	8° $\mathfrak{Z}$ 59'36		evening set	-12867 Sep 05 j 10:33	26° $\mathfrak{I}$ 17'44	
opposition	-12873 Sep 23 j 10:34	4° $\mathfrak{Z}$ 02'42	-1°41'45				
min. Earth dist.	-12873 Sep 23 j 15:36	4° $\mathfrak{Z}$ 01'01	4.22895 AU	conjunction	-12867 Sep 18 j 02:54	29° $\mathfrak{I}$ 13'33	1°15'44
	-12873 Oct 28 j 19:33	30° $\mathfrak{R}$ $\mathfrak{X}$		minimum elong	-12867 Sep 18 j 03:00	29° $\mathfrak{I}$ 13'36	1°16'34
direct	-12873 Nov 23 j 08:08	28° $\mathfrak{X}$ 58'30		max. Earth dist.	-12867 Sep 18 j 08:18	29° $\mathfrak{I}$ 16'40	6.17869 AU
	-12873 Dec 19 j 05:45	0° $\mathfrak{Z}$			-12867 Sep 21 j 11:10	0° $\mathfrak{D}$	
evening set	-12872 Mar 31 j 19:28	17° $\mathfrak{Z}$ 43'59		morning rise	-12867 Sep 30 j 22:23	2° $\mathfrak{D}$ 11'04	
max. Earth dist.	-12872 Apr 13 j 11:59	20° $\mathfrak{Z}$ 34'39	6.26507 AU	retrograde	-12866 Feb 07 j 21:16	21° $\mathfrak{D}$ 25'44	

Attention, astronomical year style is used: The year -12866 in astronomical counting style is the year 12867 BCE in historical counting style.

opposition	-12866 Apr 10 j 04:14	16° $\Omega$ 24'44	1°14'09	conjunction	-12860 Apr 18 j 19:15	25° $\Xi$ 22'10	-0°34'33
min. Earth dist.	-12866 Apr 09 j 18:37	16° $\Omega$ 27'53	4.14131 AU	minimum elong	-12860 Apr 18 j 19:19	25° $\Xi$ 22'12	0°35'18
direct	-12866 Jun 08 j 09:41	11° $\Omega$ 31'26		max. Earth dist.	-12860 Apr 18 j 03:48	25° $\Xi$ 13'30	6.27577 AU
evening set	-12866 Oct 09 j 02:18	0° $\Omega$ 00'48		morning rise	-12860 May 01 j 22:34	28° $\Xi$ 18'46	
	-12866 Oct 09 j 00:55	0° $\Omega$			-12860 May 09 j 13:16	0° $\approx$	
					-12860 Aug 08 j 00:34	15° $\approx$	
conjunction	-12866 Oct 22 j 06:16	3° $\Omega$ 04'50	0°20'23	retrograde	-12860 Aug 30 j 21:52	15° $\approx$ 50'40	
minimum elong	-12866 Oct 22 j 06:18	3° $\Omega$ 04'51	0°21'06		-12860 Sep 22 j 21:14	15° $\approx$	
max. Earth dist.	-12866 Oct 23 j 01:51	3° $\Omega$ 16'16	6.10858 AU	opposition	-12860 Oct 29 j 17:02	10° $\approx$ 57'15	-0°09'02
morning rise	-12866 Nov 04 j 13:45	6° $\Omega$ 10'52		min. Earth dist.	-12860 Oct 30 j 06:26	10° $\approx$ 52'53	4.30505 AU
	-12866 Dec 14 j 13:10	15° $\Omega$		asc. node	-12860 Dec 09 j 08:05	6° $\approx$ 36'36	
desc. node	-12865 Feb 27 j 15:44	25° $\Omega$ 30'34		direct	-12860 Dec 30 j 18:23	5° $\approx$ 54'37	
retrograde	-12865 Mar 15 j 22:45	25° $\Omega$ 55'47			-12859 Mar 24 j 23:22	15° $\approx$	
opposition	-12865 May 15 j 09:36	20° $\Omega$ 51'57	-0°18'33	evening set	-12859 May 08 j 04:04	24° $\approx$ 12'39	
min. Earth dist.	-12865 May 14 j 18:29	20° $\Omega$ 57'01	4.08396 AU	max. Earth dist.	-12859 May 20 j 02:19	26° $\approx$ 52'10	6.32589 AU
direct	-12865 Jul 12 j 19:13	15° $\Omega$ 56'35					
	-12865 Oct 23 j 12:26	0° $\Pi$		conjunction	-12859 May 21 j 02:06	27° $\approx$ 05'27	0°24'13
evening set	-12865 Nov 13 j 17:14	4° $\Pi$ 50'09		minimum elong	-12859 May 21 j 02:03	27° $\approx$ 05'25	0°23'44
				morning rise	-12859 Jun 02 j 21:03	29° $\approx$ 56'37	
conjunction	-12865 Nov 27 j 06:31	8° $\Pi$ 00'02	-0°43'16		-12859 Jun 03 j 03:08	0° $\text{X}$	
minimum elong	-12865 Nov 27 j 06:26	7° $\Pi$ 59'59	0°42'55	retrograde	-12859 Oct 01 j 17:36	17° $\text{X}$ 15'53	
max. Earth dist.	-12865 Nov 28 j 07:48	8° $\Pi$ 14'49	6.06934 AU	opposition	-12859 Dec 01 j 06:52	12° $\text{X}$ 23'58	1°14'33
morning rise	-12865 Dec 10 j 23:00	11° $\Pi$ 11'33		min. Earth dist.	-12859 Dec 02 j 00:34	12° $\text{X}$ 18'19	4.33736 AU
	-12864 Mar 25 j 03:14	0° $\underline{\Omega}$		direct	-12858 Feb 01 j 19:42	7° $\text{X}$ 23'59	
retrograde	-12864 Apr 19 j 21:42	1° $\underline{\Omega}$ 04'09		evening set	-12858 Jun 08 j 15:25	25° $\text{X}$ 25'58	
	-12864 May 15 j 10:16	30° $\text{X}$ $\Pi$		max. Earth dist.	-12858 Jun 20 j 05:17	28° $\text{X}$ 01'16	6.33718 AU
opposition	-12864 Jun 18 j 12:26	25° $\Pi$ 59'22	-1°46'03				
min. Earth dist.	-12864 Jun 17 j 19:26	26° $\Pi$ 05'10	4.06746 AU	conjunction	-12858 Jun 21 j 04:42	28° $\text{X}$ 14'23	1°15'11
direct	-12864 Aug 15 j 16:48	21° $\Pi$ 00'45		minimum elong	-12858 Jun 21 j 04:36	28° $\text{X}$ 14'20	1°15'09
	-12864 Nov 02 j 19:08	0° $\underline{\Omega}$			-12858 Jun 29 j 01:10	0° $\Upsilon$	
evening set	-12864 Dec 19 j 19:03	10° $\underline{\Omega}$ 14'01		morning rise	-12858 Jul 03 j 15:47	1° $\Upsilon$ 01'46	
				retrograde	-12858 Nov 02 j 21:39	18° $\Upsilon$ 31'34	
conjunction	-12863 Jan 02 j 12:19	13° $\underline{\Omega}$ 25'03	-1°31'34	opposition	-12857 Jan 03 j 05:15	13° $\Upsilon$ 39'12	2°16'10
minimum elong	-12863 Jan 02 j 12:13	13° $\underline{\Omega}$ 24'59	1°31'45	min. Earth dist.	-12857 Jan 03 j 19:59	13° $\Upsilon$ 34'32	4.32819 AU
max. Earth dist.	-12863 Jan 03 j 11:34	13° $\underline{\Omega}$ 38'34	6.07596 AU	direct	-12857 Mar 06 j 10:55	8° $\Upsilon$ 42'19	
morning rise	-12863 Jan 16 j 06:46	16° $\underline{\Omega}$ 36'37		evening set	-12857 Jul 09 j 14:42	26° $\Upsilon$ 38'09	
	-12863 Mar 21 j 12:48	0° $\Pi$					
retrograde	-12863 May 25 j 04:38	6° $\Pi$ 09'28		conjunction	-12857 Jul 21 j 22:40	29° $\Upsilon$ 25'11	1°44'26
opposition	-12863 Jul 23 j 03:01	1° $\Pi$ 06'04	-2°34'35	minimum elong	-12857 Jul 21 j 22:37	29° $\Upsilon$ 25'09	1°44'50
min. Earth dist.	-12863 Jul 22 j 15:51	1° $\Pi$ 09'54	4.09779 AU	max. Earth dist.	-12857 Jul 21 j 05:45	29° $\Upsilon$ 15'36	6.30696 AU
	-12863 Jul 31 j 05:01	30° $\text{X}$ $\underline{\Omega}$			-12857 Jul 24 j 12:11	0° $\text{X}$	
direct	-12863 Sep 19 j 21:45	26° $\underline{\Omega}$ 04'12		morning rise	-12857 Aug 03 j 06:13	2° $\text{X}$ 12'07	
	-12863 Nov 09 j 10:02	0° $\Pi$			-12857 Oct 06 j 07:44	15° $\text{X}$	
	-12862 Jan 24 j 10:31	15° $\Pi$		retrograde	-12857 Dec 06 j 03:09	20° $\text{X}$ 11'33	
evening set	-12862 Jan 26 j 01:25	15° $\Pi$ 22'11		opposition	-12856 Feb 05 j 19:34	15° $\text{X}$ 17'03	2°38'32
				min. Earth dist.	-12856 Feb 06 j 04:42	15° $\text{X}$ 14'09	4.27979 AU
conjunction	-12862 Feb 08 j 18:01	18° $\Pi$ 30'32	-1°46'16		-12856 Feb 08 j 01:22	15° $\text{R}$ $\text{X}$	
minimum elong	-12862 Feb 08 j 18:01	18° $\Pi$ 30'32	1°46'54	direct	-12856 Apr 07 j 06:27	10° $\text{X}$ 22'45	
max. Earth dist.	-12862 Feb 09 j 06:28	18° $\Pi$ 37'41	6.12613 AU		-12856 Jun 02 j 18:46	15° $\text{X}$	
morning rise	-12862 Feb 22 j 09:35	21° $\Pi$ 38'16		evening set	-12856 Aug 08 j 19:57	28° $\text{X}$ 22'23	
	-12862 Apr 01 j 17:23	0° $\text{X}$			-12856 Aug 15 j 22:57	0° $\Pi$	
retrograde	-12862 Jun 28 j 03:46	10° $\text{X}$ 30'02					
opposition	-12862 Aug 25 j 23:02	5° $\text{X}$ 29'51	-2°27'30	conjunction	-12856 Aug 21 j 05:26	1° $\Pi$ 12'27	1°43'01
min. Earth dist.	-12862 Aug 25 j 19:41	5° $\text{X}$ 30'59	4.16324 AU	minimum elong	-12856 Aug 21 j 05:29	1° $\Pi$ 12'29	1°43'44
direct	-12862 Oct 24 j 18:48	0° $\text{X}$ 25'56		max. Earth dist.	-12856 Aug 20 j 23:02	1° $\Pi$ 08'47	6.24368 AU
evening set	-12861 Mar 03 j 04:32	19° $\text{X}$ 30'55		morning rise	-12856 Sep 02 j 16:34	4° $\Pi$ 03'27	
				retrograde	-12855 Jan 08 j 11:14	22° $\Pi$ 43'26	
conjunction	-12861 Mar 16 j 17:26	22° $\text{X}$ 34'41	-1°23'45	opposition	-12855 Mar 11 j 03:48	17° $\Pi$ 45'35	2°12'35
minimum elong	-12861 Mar 16 j 17:32	22° $\text{X}$ 34'44	1°24'35	min. Earth dist.	-12855 Mar 11 j 02:18	17° $\Pi$ 46'04	4.20606 AU
max. Earth dist.	-12861 Mar 16 j 13:26	22° $\text{X}$ 32'25	6.20144 AU	direct	-12855 May 10 j 09:14	12° $\Pi$ 52'38	
morning rise	-12861 Mar 30 j 03:57	25° $\text{X}$ 37'04			-12855 Sep 05 j 08:09	0° $\Xi$	
	-12861 Apr 18 j 23:23	0° $\Xi$		evening set	-12855 Sep 10 j 01:47	1° $\Xi$ 05'12	
retrograde	-12861 Jul 30 j 23:38	13° $\Xi$ 42'58					
opposition	-12861 Sep 28 j 01:44	8° $\Xi$ 46'31	-1°31'39	conjunction	-12855 Sep 22 j 19:49	4° $\Xi$ 02'15	1°09'12
min. Earth dist.	-12861 Sep 28 j 08:48	8° $\Xi$ 44'10	4.24058 AU	minimum elong	-12855 Sep 22 j 19:55	4° $\Xi$ 02'18	1°10'03
direct	-12861 Nov 28 j 04:35	3° $\Xi$ 42'22		max. Earth dist.	-12855 Sep 23 j 04:38	4° $\Xi$ 07'22	6.16654 AU
evening set	-12860 Apr 05 j 12:22	22° $\Xi$ 23'46		morning rise	-12855 Oct 05 j 16:49	7° $\Xi$ 01'02	

Attention, astronomical year style is used: The year -12854 in astronomical counting style is the year 12855 BCE in historical counting style.

retrograde	-12854 Feb 12 j 23:51	26° $\Omega$ 21'22		min. Earth dist.	-12849 Oct 02 j 19:26	13° $\Xi$ 12'59	4.25223 AU
opposition	-12854 Apr 15 j 03:26	21° $\Omega$ 19'57	1°02'07	direct	-12849 Dec 02 j 17:29	8° $\Xi$ 11'35	
min. Earth dist.	-12854 Apr 14 j 17:17	21° $\Omega$ 23'17	4.13074 AU	evening set	-12848 Apr 09 j 23:52	26° $\Xi$ 49'21	
direct	-12854 Jun 13 j 05:51	16° $\Omega$ 26'32		max. Earth dist.	-12848 Apr 22 j 10:16	29° $\Xi$ 36'10	6.28425 AU
	-12854 Sep 22 j 01:49	0° $\Omega$					
evening set	-12854 Oct 14 j 00:28	4° $\Omega$ 59'22		conjunction	-12848 Apr 23 j 05:33	29° $\Xi$ 46'58	-0°26'49
				minimum elong	-12848 Apr 23 j 05:35	29° $\Xi$ 47'00	0°27'33
conjunction	-12854 Oct 27 j 05:52	8° $\Omega$ 04'26	0°11'25		-12848 Apr 24 j 04:48	0° $\approx$	
minimum elong	-12854 Oct 27 j 05:53	8° $\Omega$ 04'26	0°12'04	morning rise	-12848 May 06 j 07:58	2° $\approx$ 42'50	
behind sun begin	-12854 Oct 27 j 00:18	8° $\Omega$ 01'12			-12848 Jul 06 j 20:24	15° $\approx$	
behind sun end	-12854 Oct 27 j 11:28	8° $\Omega$ 07'41		retrograde	-12848 Sep 04 j 05:36	20° $\approx$ 12'02	
max. Earth dist.	-12854 Oct 28 j 02:21	8° $\Omega$ 16'23	6.10093 AU	asc. node	-12848 Oct 22 j 01:36	16° $\approx$ 50'51	
morning rise	-12854 Nov 09 j 15:06	11° $\Omega$ 11'32		opposition	-12848 Nov 03 j 02:00	15° $\approx$ 18'57	0°02'40
	-12854 Nov 26 j 07:03	15° $\Omega$		min. Earth dist.	-12848 Nov 03 j 17:43	15° $\approx$ 13'51	4.30973 AU
desc. node	-12853 Jan 06 j 17:41	23° $\Omega$ 31'26			-12848 Nov 05 j 12:24	15° $\approx$	
	-12853 Feb 24 j 01:24	0° $\mathbb{P}$		direct	-12847 Jan 04 j 06:34	10° $\approx$ 16'33	
retrograde	-12853 Mar 20 j 23:50	0° $\mathbb{P}$ 58'48			-12847 Mar 03 j 18:22	15° $\approx$	
	-12853 Apr 14 j 18:04	30° $\mathbb{R}$ $\Omega$		evening set	-12847 May 12 j 11:16	28° $\approx$ 32'57	
opposition	-12853 May 20 j 09:07	25° $\Omega$ 54'42	-0°32'02		-12847 May 18 j 23:44	0° $\mathbb{H}$	
min. Earth dist.	-12853 May 19 j 15:58	26° $\Omega$ 00'29	4.08040 AU	max. Earth dist.	-12847 May 24 j 08:21	1° $\mathbb{H}$ 11'51	6.32632 AU
direct	-12853 Jul 17 j 16:26	20° $\Omega$ 58'59					
	-12853 Oct 04 j 14:53	0° $\mathbb{P}$		conjunction	-12847 May 25 j 08:18	1° $\mathbb{H}$ 25'15	0°31'50
evening set	-12853 Nov 18 j 21:04	9° $\mathbb{P}$ 55'00		minimum elong	-12847 May 25 j 08:15	1° $\mathbb{H}$ 25'13	0°31'26
				morning rise	-12847 Jun 07 j 02:03	4° $\mathbb{H}$ 15'57	
conjunction	-12853 Dec 02 j 11:17	13° $\mathbb{P}$ 05'11	-0°51'28	retrograde	-12847 Oct 06 j 01:11	21° $\mathbb{H}$ 36'46	
minimum elong	-12853 Dec 02 j 11:11	13° $\mathbb{P}$ 05'08	0°51'13	opposition	-12847 Dec 05 j 17:27	16° $\mathbb{H}$ 44'55	1°24'35
max. Earth dist.	-12853 Dec 03 j 14:07	13° $\mathbb{P}$ 20'52	6.07031 AU	min. Earth dist.	-12847 Dec 06 j 10:38	16° $\mathbb{H}$ 39'26	4.33382 AU
morning rise	-12853 Dec 16 j 04:14	16° $\mathbb{P}$ 16'49		direct	-12846 Feb 06 j 04:34	11° $\mathbb{H}$ 45'22	
	-12852 Feb 20 j 00:13	0° $\Xi$		evening set	-12846 Jun 12 j 21:35	29° $\mathbb{H}$ 47'52	
retrograde	-12852 Apr 24 j 22:01	6° $\Xi$ 06'53			-12846 Jun 13 j 19:20	0° $\mathbb{Y}$	
opposition	-12852 Jun 23 j 09:54	1° $\Xi$ 02'06	-1°55'42	max. Earth dist.	-12846 Jun 24 j 09:58	2° $\mathbb{Y}$ 22'43	6.32975 AU
min. Earth dist.	-12852 Jun 22 j 17:43	1° $\Xi$ 07'38	4.07311 AU				
	-12852 Jul 01 j 00:43	30° $\mathbb{R}$ $\mathbb{P}$		conjunction	-12846 Jun 25 j 09:49	2° $\mathbb{Y}$ 36'08	1°20'38
direct	-12852 Aug 20 j 16:49	26° $\mathbb{P}$ 03'00		minimum elong	-12846 Jun 25 j 09:43	2° $\mathbb{Y}$ 36'04	1°20'40
	-12852 Oct 09 j 18:58	0° $\Xi$		morning rise	-12846 Jul 07 j 20:16	5° $\mathbb{Y}$ 23'29	
evening set	-12852 Dec 25 j 00:12	15° $\Xi$ 16'07		retrograde	-12846 Nov 07 j 12:23	22° $\mathbb{Y}$ 58'26	
				opposition	-12845 Jan 07 j 19:40	18° $\mathbb{Y}$ 05'56	2°21'49
conjunction	-12851 Jan 07 j 17:31	18° $\Xi$ 26'40	-1°35'48	min. Earth dist.	-12845 Jan 08 j 10:50	18° $\mathbb{Y}$ 01'08	4.31756 AU
minimum elong	-12851 Jan 07 j 17:25	18° $\Xi$ 26'37	1°36'04	direct	-12845 Mar 10 j 23:35	13° $\mathbb{Y}$ 09'27	
max. Earth dist.	-12851 Jan 08 j 16:34	18° $\Xi$ 40'02	6.08556 AU		-12845 Jul 08 j 22:12	0° $\mathbb{B}$	
morning rise	-12851 Jan 21 j 11:38	21° $\Xi$ 37'35		evening set	-12845 Jul 13 j 22:26	1° $\mathbb{B}$ 07'27	
	-12851 Feb 28 j 11:24	0° $\mathbb{M}$					
retrograde	-12851 May 29 j 21:43	11° $\mathbb{M}$ 03'31		conjunction	-12845 Jul 26 j 06:19	3° $\mathbb{B}$ 54'55	1°46'06
opposition	-12851 Jul 27 j 20:12	6° $\mathbb{M}$ 00'27	-2°36'49	minimum elong	-12845 Jul 26 j 06:17	3° $\mathbb{B}$ 54'54	1°46'34
min. Earth dist.	-12851 Jul 27 j 09:12	6° $\mathbb{M}$ 04'13	4.11060 AU	max. Earth dist.	-12845 Jul 25 j 14:39	3° $\mathbb{B}$ 46'01	6.29389 AU
direct	-12851 Sep 24 j 17:24	0° $\mathbb{M}$ 58'12		morning rise	-12845 Aug 07 j 14:03	6° $\mathbb{B}$ 42'26	
	-12850 Jan 07 j 16:16	15° $\mathbb{M}$			-12845 Sep 15 j 06:29	15° $\mathbb{B}$	
evening set	-12850 Jan 31 j 02:24	20° $\mathbb{M}$ 13'12		retrograde	-12845 Dec 10 j 20:58	24° $\mathbb{B}$ 49'02	
				opposition	-12844 Feb 10 j 14:10	19° $\mathbb{B}$ 54'08	2°37'48
conjunction	-12850 Feb 13 j 18:23	23° $\mathbb{M}$ 20'41	-1°45'12	min. Earth dist.	-12844 Feb 10 j 20:41	19° $\mathbb{B}$ 52'03	4.26546 AU
minimum elong	-12850 Feb 13 j 18:24	23° $\mathbb{M}$ 20'42	1°45'52	direct	-12844 Apr 11 j 19:12	15° $\mathbb{B}$ 00'11	
max. Earth dist.	-12850 Feb 14 j 03:13	23° $\mathbb{M}$ 25'44	6.14074 AU		-12844 Jul 30 j 19:12	0° $\mathbb{I}$	
morning rise	-12850 Feb 27 j 09:23	26° $\mathbb{M}$ 27'29		evening set	-12844 Aug 13 j 07:37	3° $\mathbb{I}$ 02'48	
	-12850 Mar 15 j 03:58	0° $\mathbb{J}$					
retrograde	-12850 Jul 02 j 16:07	15° $\mathbb{J}$ 11'02		conjunction	-12844 Aug 25 j 18:03	5° $\mathbb{I}$ 53'51	1°40'02
opposition	-12850 Aug 30 j 12:04	10° $\mathbb{J}$ 11'18	-2°22'16	minimum elong	-12844 Aug 25 j 18:06	5° $\mathbb{I}$ 53'53	1°40'47
min. Earth dist.	-12850 Aug 30 j 11:10	10° $\mathbb{J}$ 11'36	4.17807 AU	max. Earth dist.	-12844 Aug 25 j 15:04	5° $\mathbb{I}$ 52'09	6.22928 AU
direct	-12850 Oct 29 j 13:27	5° $\mathbb{J}$ 07'11		morning rise	-12844 Sep 07 j 06:13	8° $\mathbb{I}$ 45'57	
evening set	-12849 Mar 07 j 22:14	24° $\mathbb{J}$ 07'46		retrograde	-12843 Jan 13 j 12:29	27° $\mathbb{I}$ 33'07	
				opposition	-12843 Mar 16 j 02:29	22° $\mathbb{I}$ 34'45	2°04'55
conjunction	-12849 Mar 21 j 10:35	27° $\mathbb{J}$ 10'43	-1°18'17	min. Earth dist.	-12843 Mar 15 j 23:56	22° $\mathbb{I}$ 35'34	4.19254 AU
minimum elong	-12849 Mar 21 j 10:41	27° $\mathbb{J}$ 10'47	1°19'08	direct	-12843 May 15 j 04:21	17° $\mathbb{I}$ 41'52	
max. Earth dist.	-12849 Mar 21 j 05:17	27° $\mathbb{J}$ 07'43	6.21534 AU		-12843 Aug 19 j 05:28	0° $\Xi$	
	-12849 Apr 02 j 22:25	0° $\Xi$		evening set	-12843 Sep 14 j 19:04	5° $\Xi$ 57'28	
morning rise	-12849 Apr 03 j 20:02	0° $\Xi$ 12'09					
retrograde	-12849 Aug 04 j 06:32	18° $\Xi$ 11'34		conjunction	-12843 Sep 27 j 14:36	8° $\Xi$ 55'42	1°02'03
opposition	-12849 Oct 02 j 11:25	13° $\Xi$ 15'38	-1°21'30	minimum elong	-12843 Sep 27 j 14:41	8° $\Xi$ 55'46	1°02'54

Attention, astronomical year style is used: The year -12843 in astronomical counting style is the year 12844 BCE in historical counting style.

max. Earth dist.	-12843 Sep 28 j 01:31	9° $\mathfrak{D}$ 02'03	6.15512 AU	max. Earth dist.	-12837 Mar 25 j 20:49	1° $\mathfrak{Z}$ 48'27	6.22575 AU
morning rise	-12843 Oct 10 j 13:29	11° $\mathfrak{D}$ 55'48		morning rise	-12837 Apr 08 j 14:42	4° $\mathfrak{Z}$ 54'18	
	-12842 Jan 19 j 07:39	0° $\mathfrak{Q}$		retrograde	-12837 Aug 08 j 18:19	22° $\mathfrak{Z}$ 48'35	
retrograde	-12842 Feb 18 j 01:01	1° $\mathfrak{Q}$ 20'59		opposition	-12837 Oct 07 j 00:37	17° $\mathfrak{Z}$ 53'06	-1°10'37
	-12842 Mar 19 j 15:22	30° $\mathfrak{R}$ $\mathfrak{D}$		min. Earth dist.	-12837 Oct 07 j 10:29	17° $\mathfrak{Z}$ 49'50	4.26104 AU
opposition	-12842 Apr 20 j 03:40	26° $\mathfrak{D}$ 19'03	0°49'26	direct	-12837 Dec 07 j 10:55	12° $\mathfrak{Z}$ 49'08	
min. Earth dist.	-12842 Apr 19 j 14:53	26° $\mathfrak{D}$ 23'16	4.12223 AU		-12836 Apr 08 j 06:26	0° $\mathfrak{R}$	
direct	-12842 Jun 18 j 01:49	21° $\mathfrak{D}$ 25'26		evening set	-12836 Apr 14 j 14:16	1° $\mathfrak{R}$ 23'58	
	-12842 Sep 03 j 01:40	0° $\mathfrak{Q}$					
evening set	-12842 Oct 19 j 00:06	10° $\mathfrak{Q}$ 01'00		conjunction	-12836 Apr 27 j 19:01	4° $\mathfrak{R}$ 20'54	-0°18'41
				minimum elong	-12836 Apr 27 j 19:03	4° $\mathfrak{R}$ 20'55	0°19'23
conjunction	-12842 Nov 01 j 07:01	13° $\mathfrak{Q}$ 06'56	0°02'16	max. Earth dist.	-12836 Apr 26 j 23:41	4° $\mathfrak{R}$ 10'04	6.29102 AU
minimum elong	-12842 Nov 01 j 07:01	13° $\mathfrak{Q}$ 06'56	0°02'54	morning rise	-12836 May 10 j 20:10	7° $\mathfrak{R}$ 16'02	
behind sun begin	-12842 Oct 31 j 22:47	13° $\mathfrak{Q}$ 02'09			-12836 Jun 16 j 04:29	15° $\mathfrak{R}$	
behind sun end	-12842 Nov 01 j 15:14	13° $\mathfrak{Q}$ 11'43		asc. node	-12836 Sep 01 j 08:22	24° $\mathfrak{R}$ 37'55	
max. Earth dist.	-12842 Nov 02 j 05:57	13° $\mathfrak{Q}$ 20'19	6.09586 AU	retrograde	-12836 Sep 08 j 15:44	24° $\mathfrak{R}$ 43'06	
	-12842 Nov 09 j 08:44	15° $\mathfrak{Q}$		opposition	-12836 Nov 07 j 15:01	19° $\mathfrak{R}$ 50'20	0°14'46
morning rise	-12842 Nov 14 j 17:33	16° $\mathfrak{Q}$ 14'50		min. Earth dist.	-12836 Nov 08 j 06:46	19° $\mathfrak{R}$ 45'14	4.31398 AU
desc. node	-12842 Nov 15 j 03:20	16° $\mathfrak{Q}$ 20'30			-12836 Dec 28 j 12:57	15° $\mathfrak{R}$ $\mathfrak{R}$	
	-12841 Jan 19 j 22:53	0° $\mathfrak{R}$		direct	-12835 Jan 08 j 20:32	14° $\mathfrak{R}$ 48'19	
retrograde	-12841 Mar 26 j 02:58	6° $\mathfrak{R}$ 03'13			-12835 Jan 20 j 05:22	15° $\mathfrak{R}$	
opposition	-12841 May 25 j 08:41	0° $\mathfrak{R}$ 58'50	-0°45'21		-12835 May 03 j 00:29	0° $\mathfrak{H}$	
min. Earth dist.	-12841 May 24 j 15:46	1° $\mathfrak{R}$ 04'33	4.07894 AU	evening set	-12835 May 16 j 22:04	3° $\mathfrak{H}$ 02'46	
	-12841 Jun 01 j 16:06	30° $\mathfrak{R}$ $\mathfrak{Q}$					
direct	-12841 Jul 22 j 16:16	26° $\mathfrak{Q}$ 02'38		conjunction	-12835 May 29 j 17:40	5° $\mathfrak{H}$ 54'26	0°39'35
	-12841 Sep 10 j 14:51	0° $\mathfrak{R}$		minimum elong	-12835 May 29 j 17:36	5° $\mathfrak{H}$ 54'24	0°39'15
evening set	-12841 Nov 24 j 01:27	15° $\mathfrak{R}$ 00'38		max. Earth dist.	-12835 May 28 j 15:57	5° $\mathfrak{H}$ 40'03	6.32772 AU
				morning rise	-12835 Jun 11 j 10:25	8° $\mathfrak{H}$ 44'37	
conjunction	-12841 Dec 07 j 16:23	18° $\mathfrak{R}$ 11'01	-0°59'20	retrograde	-12835 Oct 10 j 14:37	26° $\mathfrak{H}$ 06'36	
minimum elong	-12841 Dec 07 j 16:17	18° $\mathfrak{R}$ 10'57	0°59'10	opposition	-12835 Dec 10 j 07:59	21° $\mathfrak{H}$ 14'48	1°34'32
max. Earth dist.	-12841 Dec 08 j 19:43	18° $\mathfrak{R}$ 26'57	6.07228 AU	min. Earth dist.	-12835 Dec 11 j 01:48	21° $\mathfrak{H}$ 09'07	4.33255 AU
morning rise	-12841 Dec 21 j 09:52	21° $\mathfrak{R}$ 22'42		direct	-12834 Feb 10 j 19:20	16° $\mathfrak{H}$ 15'39	
	-12840 Jan 29 j 09:01	0° $\mathfrak{D}$			-12834 May 28 j 15:53	0° $\mathfrak{Y}$	
retrograde	-12840 Apr 29 j 21:03	11° $\mathfrak{D}$ 09'48		evening set	-12834 Jun 17 j 06:30	4° $\mathfrak{Y}$ 17'28	
opposition	-12840 Jun 28 j 06:56	6° $\mathfrak{D}$ 05'09	-2°04'33				
min. Earth dist.	-12840 Jun 27 j 14:40	6° $\mathfrak{D}$ 10'43	4.07851 AU	conjunction	-12834 Jun 29 j 17:58	7° $\mathfrak{Y}$ 05'27	1°25'52
direct	-12840 Aug 25 j 14:01	1° $\mathfrak{D}$ 05'36		minimum elong	-12834 Jun 29 j 17:52	7° $\mathfrak{Y}$ 05'24	1°25'57
evening set	-12840 Dec 30 j 05:29	20° $\mathfrak{D}$ 19'00		max. Earth dist.	-12834 Jun 28 j 20:04	6° $\mathfrak{Y}$ 53'08	6.32596 AU
				morning rise	-12834 Jul 12 j 03:34	9° $\mathfrak{Y}$ 52'37	
conjunction	-12839 Jan 12 j 22:38	23° $\mathfrak{D}$ 29'08	-1°39'25	retrograde	-12834 Nov 12 j 02:32	27° $\mathfrak{Y}$ 31'18	
minimum elong	-12839 Jan 12 j 22:32	23° $\mathfrak{D}$ 29'05	1°39'45	opposition	-12833 Jan 12 j 12:30	22° $\mathfrak{Y}$ 38'33	2°26'49
max. Earth dist.	-12839 Jan 13 j 18:45	23° $\mathfrak{D}$ 40'47	6.09355 AU	min. Earth dist.	-12833 Jan 13 j 01:41	22° $\mathfrak{Y}$ 34'23	4.31194 AU
morning rise	-12839 Jan 26 j 16:33	26° $\mathfrak{D}$ 39'30		direct	-12833 Mar 15 j 12:46	17° $\mathfrak{Y}$ 42'33	
	-12839 Feb 10 j 09:48	0° $\mathfrak{M}$			-12833 Jun 22 j 09:50	0° $\mathfrak{Z}$	
	-12839 May 10 j 02:51	15° $\mathfrak{M}$		evening set	-12833 Jul 18 j 07:39	5° $\mathfrak{Z}$ 40'38	
retrograde	-12839 Jun 03 j 16:01	15° $\mathfrak{M}$ 59'36					
	-12839 Jun 28 j 00:05	15° $\mathfrak{R}$ $\mathfrak{M}$		conjunction	-12833 Jul 30 j 15:20	8° $\mathfrak{Z}$ 28'18	1°47'14
opposition	-12839 Aug 01 j 14:07	10° $\mathfrak{M}$ 56'54	-2°38'06	minimum elong	-12833 Jul 30 j 15:19	8° $\mathfrak{Z}$ 28'17	1°47'45
min. Earth dist.	-12839 Aug 01 j 04:55	11° $\mathfrak{M}$ 00'03	4.12044 AU	max. Earth dist.	-12833 Jul 30 j 01:19	8° $\mathfrak{Z}$ 20'19	6.28685 AU
direct	-12839 Sep 29 j 15:37	5° $\mathfrak{M}$ 54'17		morning rise	-12833 Aug 11 j 23:16	11° $\mathfrak{Z}$ 16'09	
	-12839 Dec 19 j 19:49	15° $\mathfrak{M}$			-12833 Aug 28 j 17:47	15° $\mathfrak{Z}$	
evening set	-12838 Feb 05 j 04:10	25° $\mathfrak{M}$ 07'30		retrograde	-12833 Dec 15 j 17:08	29° $\mathfrak{Z}$ 27'46	
				opposition	-12832 Feb 15 j 09:39	24° $\mathfrak{Z}$ 32'24	2°36'06
conjunction	-12838 Feb 18 j 19:55	28° $\mathfrak{M}$ 14'23	-1°43'28	min. Earth dist.	-12832 Feb 15 j 15:24	24° $\mathfrak{Z}$ 30'34	4.25748 AU
minimum elong	-12838 Feb 18 j 19:57	28° $\mathfrak{M}$ 14'24	1°44'10	direct	-12832 Apr 16 j 12:15	19° $\mathfrak{Z}$ 38'41	
max. Earth dist.	-12838 Feb 19 j 03:44	28° $\mathfrak{M}$ 18'51	6.15174 AU		-12832 Jul 13 j 12:52	0° $\mathfrak{I}$	
	-12838 Feb 26 j 12:48	0° $\mathfrak{Z}$		evening set	-12832 Aug 17 j 18:58	7° $\mathfrak{I}$ 41'57	
morning rise	-12838 Mar 04 j 10:04	1° $\mathfrak{Z}$ 20'22					
retrograde	-12838 Jul 07 j 06:17	19° $\mathfrak{Z}$ 57'10		conjunction	-12832 Aug 30 j 06:19	10° $\mathfrak{I}$ 33'44	1°36'30
opposition	-12838 Sep 04 j 02:50	14° $\mathfrak{Z}$ 58'01	-2°16'09	minimum elong	-12832 Aug 30 j 06:23	10° $\mathfrak{I}$ 33'46	1°37'17
min. Earth dist.	-12838 Sep 04 j 03:07	14° $\mathfrak{Z}$ 57'56	4.18918 AU	max. Earth dist.	-12832 Aug 30 j 05:34	10° $\mathfrak{I}$ 33'18	6.22115 AU
direct	-12838 Nov 03 j 08:03	9° $\mathfrak{Z}$ 53'50		morning rise	-12832 Sep 11 j 19:39	13° $\mathfrak{I}$ 26'41	
evening set	-12837 Mar 12 j 18:27	28° $\mathfrak{Z}$ 51'23			-12832 Dec 09 j 19:51	0° $\mathfrak{D}$	
	-12837 Mar 17 j 20:34	0° $\mathfrak{Z}$		retrograde	-12831 Jan 18 j 08:37	2° $\mathfrak{D}$ 18'30	
					-12831 Feb 27 j 02:01	30° $\mathfrak{R}$ $\mathfrak{I}$	
conjunction	-12837 Mar 26 j 05:56	1° $\mathfrak{Z}$ 53'37	-1°12'14	opposition	-12831 Mar 20 j 23:09	27° $\mathfrak{I}$ 19'36	1°56'32
minimum elong	-12837 Mar 26 j 06:02	1° $\mathfrak{Z}$ 53'40	1°13'04	min. Earth dist.	-12831 Mar 20 j 18:12	27° $\mathfrak{I}$ 21'12	4.18484 AU

Attention, astronomical year style is used: The year -12831 in astronomical counting style is the year 12832 BCE in historical counting style.

direct	-12831 May 19 j 20:22	22° $\Pi$ 26'46		evening set	-12825 Mar 17 j 13:56	3° $\Sigma$ 34'08	
	-12831 Jul 31 j 06:56	0° $\Theta$					
evening set	-12831 Sep 19 j 10:38	10° $\Theta$ 43'41		conjunction	-12825 Mar 31 j 00:49	6° $\Sigma$ 35'51	-1°05'42
				minimum elong	-12825 Mar 31 j 00:55	6° $\Sigma$ 35'55	1°06'32
conjunction	-12831 Oct 02 j 07:39	13° $\Theta$ 42'52	0°54'40	max. Earth dist.	-12825 Mar 30 j 14:55	6° $\Sigma$ 30'16	6.23275 AU
minimum elong	-12831 Oct 02 j 07:44	13° $\Theta$ 42'55	0°55'29	morning rise	-12825 Apr 13 j 08:36	9° $\Sigma$ 35'56	
max. Earth dist.	-12831 Oct 02 j 20:38	13° $\Theta$ 50'24	6.14855 AU	retrograde	-12825 Aug 13 j 06:58	27° $\Sigma$ 26'24	
morning rise	-12831 Oct 15 j 08:05	16° $\Theta$ 43'57		opposition	-12825 Oct 11 j 14:27	22° $\Sigma$ 31'26	-0°59'14
	-12831 Dec 18 j 09:18	0° $\Omega$		min. Earth dist.	-12825 Oct 12 j 01:09	22° $\Sigma$ 27'54	4.26729 AU
retrograde	-12830 Feb 23 j 00:35	6° $\Omega$ 12'16		direct	-12825 Dec 12 j 03:35	17° $\Sigma$ 27'44	
min. Earth dist.	-12830 Apr 24 j 11:31	1° $\Omega$ 14'11	4.11703 AU		-12824 Mar 22 j 08:59	0° $\approx$	
opposition	-12830 Apr 25 j 00:30	1° $\Omega$ 09'53	0°36'44	evening set	-12824 Apr 19 j 05:20	6° $\approx$ 00'20	
	-12830 May 03 j 21:41	30° $\kappa$ $\Theta$		max. Earth dist.	-12824 May 01 j 11:40	8° $\approx$ 44'45	6.29613 AU
direct	-12830 Jun 22 j 21:21	26° $\Theta$ 15'56					
	-12830 Aug 10 j 13:04	0° $\Omega$		conjunction	-12824 May 02 j 08:52	8° $\approx$ 56'37	-0°10'23
desc. node	-12830 Sep 25 j 10:51	8° $\Omega$ 29'18		minimum elong	-12824 May 02 j 08:53	8° $\approx$ 56'38	0°11'03
evening set	-12830 Oct 23 j 20:45	14° $\Omega$ 53'32		behind sun begin	-12824 May 02 j 02:49	8° $\approx$ 53'15	
	-12830 Oct 24 j 07:52	15° $\Omega$		behind sun end	-12824 May 02 j 14:57	9° $\approx$ 00'00	
				morning rise	-12824 May 15 j 09:02	11° $\approx$ 51'08	
conjunction	-12830 Nov 06 j 05:01	18° $\Omega$ 00'13	-0°06'45		-12824 May 29 j 16:34	15° $\approx$	
minimum elong	-12830 Nov 06 j 05:00	18° $\Omega$ 00'12	0°06'11	asc. node	-12824 Jul 11 j 09:44	23° $\approx$ 22'54	
behind sun begin	-12830 Nov 05 j 21:10	17° $\Omega$ 55'39		retrograde	-12824 Sep 13 j 03:59	29° $\approx$ 16'40	
behind sun end	-12830 Nov 06 j 12:50	18° $\Omega$ 04'45		opposition	-12824 Nov 12 j 05:13	24° $\approx$ 24'07	0°26'54
max. Earth dist.	-12830 Nov 07 j 05:05	18° $\Omega$ 14'16	6.09254 AU	min. Earth dist.	-12824 Nov 12 j 21:23	24° $\approx$ 18'54	4.31771 AU
morning rise	-12830 Nov 19 j 16:50	21° $\Omega$ 08'48		direct	-12823 Jan 13 j 12:02	19° $\approx$ 22'26	
	-12830 Dec 29 j 19:13	0° $\Pi$			-12823 Apr 15 j 15:53	0° $\text{H}$	
retrograde	-12829 Mar 31 j 01:17	10° $\Pi$ 57'43		evening set	-12823 May 21 j 09:16	7° $\text{H}$ 34'53	
min. Earth dist.	-12829 May 29 j 11:06	5° $\Pi$ 59'02	4.07790 AU	max. Earth dist.	-12823 Jun 02 j 03:51	10° $\text{H}$ 12'34	6.32981 AU
opposition	-12829 May 30 j 04:20	5° $\Pi$ 53'12	-0°57'56				
direct	-12829 Jul 27 j 10:14	0° $\Pi$ 56'34		conjunction	-12823 Jun 03 j 03:43	10° $\text{H}$ 25'56	0°47'11
evening set	-12829 Nov 29 j 02:36	19° $\Pi$ 56'48		minimum elong	-12823 Jun 03 j 03:39	10° $\text{H}$ 25'54	0°46'54
				morning rise	-12823 Jun 15 j 19:10	13° $\text{H}$ 15'31	
conjunction	-12829 Dec 12 j 18:00	23° $\Pi$ 07'19	-1°06'33		-12823 Sep 24 j 20:20	0° $\Upsilon$	
minimum elong	-12829 Dec 12 j 17:53	23° $\Pi$ 07'15	1°06'27	retrograde	-12823 Oct 15 j 03:01	0° $\Upsilon$ 38'28	
max. Earth dist.	-12829 Dec 13 j 19:23	23° $\Pi$ 22'07	6.07329 AU		-12823 Nov 04 j 10:52	30° $\kappa$ $\text{H}$	
morning rise	-12829 Dec 26 j 11:55	26° $\Pi$ 19'04		opposition	-12823 Dec 14 j 23:21	25° $\text{H}$ 46'37	1°43'59
	-12828 Jan 11 j 15:04	0° $\underline{\Omega}$		min. Earth dist.	-12823 Dec 15 j 16:14	25° $\text{H}$ 41'16	4.33291 AU
retrograde	-12828 May 04 j 16:20	16° $\underline{\Omega}$ 03'56		direct	-12822 Feb 15 j 09:45	20° $\text{H}$ 47'58	
min. Earth dist.	-12828 Jul 02 j 09:33	11° $\underline{\Omega}$ 04'35	4.08155 AU		-12822 May 10 j 19:58	0° $\Upsilon$	
opposition	-12828 Jul 03 j 00:38	10° $\underline{\Omega}$ 59'25	-2°12'18	evening set	-12822 Jun 21 j 15:29	8° $\Upsilon$ 48'14	
direct	-12828 Aug 30 j 09:46	5° $\underline{\Omega}$ 59'22		max. Earth dist.	-12822 Jul 03 j 03:57	11° $\Upsilon$ 23'29	6.32418 AU
evening set	-12827 Jan 04 j 07:53	25° $\underline{\Omega}$ 14'10					
				conjunction	-12822 Jul 04 j 01:53	11° $\Upsilon$ 35'50	1°30'36
conjunction	-12827 Jan 18 j 01:12	28° $\underline{\Omega}$ 24'05	-1°42'14	minimum elong	-12822 Jul 04 j 01:47	11° $\Upsilon$ 35'47	1°30'46
minimum elong	-12827 Jan 18 j 01:07	28° $\underline{\Omega}$ 24'03	1°42'38	morning rise	-12822 Jul 16 j 11:00	14° $\Upsilon$ 22'48	
max. Earth dist.	-12827 Jan 18 j 20:43	28° $\underline{\Omega}$ 35'22	6.09833 AU		-12822 Oct 10 j 10:19	0° $\text{B}$	
	-12827 Jan 24 j 23:14	0° $\Pi$		retrograde	-12822 Nov 16 j 18:28	2° $\text{B}$ 04'37	
morning rise	-12827 Jan 31 j 18:38	1° $\Pi$ 34'02			-12822 Dec 24 j 12:02	30° $\kappa$ $\Upsilon$	
	-12827 Apr 06 j 19:27	15° $\Pi$		opposition	-12821 Jan 17 j 05:29	27° $\Upsilon$ 11'32	2°30'56
retrograde	-12827 Jun 08 j 09:30	20° $\Pi$ 49'35		min. Earth dist.	-12821 Jan 17 j 18:11	27° $\Upsilon$ 07'31	4.30809 AU
opposition	-12827 Aug 06 j 05:48	15° $\Pi$ 47'23	-2°38'17	direct	-12821 Mar 20 j 04:05	22° $\Upsilon$ 15'51	
min. Earth dist.	-12827 Aug 05 j 22:04	15° $\Pi$ 50'02	4.12660 AU		-12821 Jun 03 j 19:34	0° $\text{B}$	
	-12827 Aug 12 j 00:57	15° $\kappa$ $\Pi$		evening set	-12821 Jul 22 j 16:16	10° $\text{B}$ 13'24	
direct	-12827 Oct 04 j 09:55	10° $\Pi$ 44'31					
	-12827 Nov 26 j 14:57	15° $\Pi$		conjunction	-12821 Aug 04 j 00:06	13° $\text{B}$ 01'17	1°47'44
evening set	-12826 Feb 10 j 04:18	29° $\Pi$ 57'24		minimum elong	-12821 Aug 04 j 00:06	13° $\text{B}$ 01'17	1°48'18
	-12826 Feb 10 j 08:52	0° $\text{Z}$		max. Earth dist.	-12821 Aug 03 j 12:38	12° $\text{B}$ 54'45	6.28105 AU
					-12821 Aug 12 j 16:53	15° $\text{B}$	
conjunction	-12826 Feb 23 j 19:34	3° $\text{Z}$ 03'51	-1°41'02	morning rise	-12821 Aug 16 j 08:12	15° $\text{B}$ 49'27	
minimum elong	-12826 Feb 23 j 19:37	3° $\text{Z}$ 03'53	1°41'47		-12821 Oct 27 j 21:14	0° $\Pi$	
max. Earth dist.	-12826 Feb 23 j 23:38	3° $\text{Z}$ 06'10	6.15865 AU	retrograde	-12821 Dec 20 j 09:57	4° $\Pi$ 05'35	
morning rise	-12826 Mar 09 j 09:19	6° $\text{Z}$ 09'21			-12820 Feb 13 j 13:29	30° $\kappa$ $\text{B}$	
retrograde	-12826 Jul 11 j 20:00	24° $\text{Z}$ 41'08		opposition	-12820 Feb 20 j 04:05	29° $\text{B}$ 09'45	2°33'28
opposition	-12826 Sep 08 j 17:13	19° $\text{Z}$ 42'31	-2°09'11	min. Earth dist.	-12820 Feb 20 j 08:09	29° $\text{B}$ 08'28	4.25011 AU
min. Earth dist.	-12826 Sep 08 j 18:51	19° $\text{Z}$ 41'58	4.19623 AU	direct	-12820 Apr 21 j 02:47	24° $\text{B}$ 16'16	
direct	-12826 Nov 08 j 02:25	14° $\text{Z}$ 38'15			-12820 Jun 23 j 04:27	0° $\Pi$	
	-12825 Mar 01 j 10:17	0° $\Sigma$		evening set	-12820 Aug 22 j 05:52	12° $\Pi$ 20'15	

Attention, astronomical year style is used: The year -12820 in astronomical counting style is the year 12821 BCE in historical counting style.

conjunction	-12820 Sep 03 j 18:08	15° $\Pi$ 12'48	1°32'24	retrograde	-12814 Jul 16 j 13:13	29° $\text{X}$ 30'20	
minimum elong	-12820 Sep 03 j 18:13	15° $\Pi$ 12'51	1°33'13	opposition	-12814 Sep 13 j 10:01	24° $\text{X}$ 32'17	-2°01'14
max. Earth dist.	-12820 Sep 03 j 18:33	15° $\Pi$ 13'02	6.21274 AU	min. Earth dist.	-12814 Sep 13 j 13:11	24° $\text{X}$ 31'13	4.20471 AU
morning rise	-12820 Sep 16 j 08:46	18° $\Pi$ 06'41		direct	-12814 Nov 12 j 23:25	19° $\text{X}$ 28'01	
	-12820 Nov 12 j 07:44	0° $\mathfrak{C}$			-12813 Feb 11 j 07:45	0° $\mathfrak{C}$	
retrograde	-12819 Jan 23 j 06:17	7° $\mathfrak{C}$ 03'28		evening set	-12813 Mar 22 j 11:17	8° $\mathfrak{C}$ 21'20	
opposition	-12819 Mar 25 j 19:12	2° $\mathfrak{C}$ 04'01	1°47'29				
min. Earth dist.	-12819 Mar 25 j 13:35	2° $\mathfrak{C}$ 05'50	4.17572 AU	conjunction	-12813 Apr 04 j 21:22	11° $\mathfrak{C}$ 22'23	-0°58'39
	-12819 Apr 11 j 06:36	30° $\mathfrak{R}$ $\Pi$		minimum elong	-12813 Apr 04 j 21:27	11° $\mathfrak{C}$ 22'26	0°59'28
direct	-12819 May 24 j 13:48	27° $\Pi$ 11'04		max. Earth dist.	-12813 Apr 04 j 09:59	11° $\mathfrak{C}$ 15'58	6.24183 AU
	-12819 Jul 05 j 23:27	0° $\mathfrak{C}$		morning rise	-12813 Apr 18 j 04:16	14° $\mathfrak{C}$ 21'44	
evening set	-12819 Sep 24 j 02:03	15° $\mathfrak{C}$ 30'05			-12813 Jul 12 j 03:47	0° $\approx$	
				retrograde	-12813 Aug 17 j 19:47	2° $\approx$ 07'38	
conjunction	-12819 Oct 07 j 00:43	18° $\mathfrak{C}$ 30'23	0°46'57		-12813 Sep 23 j 16:45	30° $\mathfrak{R}$ $\mathfrak{C}$	
minimum elong	-12819 Oct 07 j 00:48	18° $\mathfrak{C}$ 30'26	0°47'45	opposition	-12813 Oct 16 j 06:07	27° $\mathfrak{C}$ 13'02	-0°47'22
max. Earth dist.	-12819 Oct 07 j 15:45	18° $\mathfrak{C}$ 39'07	6.13977 AU	min. Earth dist.	-12813 Oct 16 j 16:54	27° $\mathfrak{C}$ 09'29	4.27628 AU
morning rise	-12819 Oct 20 j 02:49	21° $\mathfrak{C}$ 32'37		direct	-12813 Dec 16 j 21:38	22° $\mathfrak{C}$ 09'32	
	-12819 Nov 27 j 12:04	0° $\mathfrak{Q}$			-12812 Mar 03 j 01:51	0° $\approx$	
retrograde	-12818 Feb 28 j 00:15	11° $\mathfrak{Q}$ 04'49		evening set	-12812 Apr 23 j 20:57	10° $\approx$ 38'37	
opposition	-12818 Apr 29 j 21:19	6° $\mathfrak{Q}$ 02'02	0°23'47				
min. Earth dist.	-12818 Apr 29 j 07:34	6° $\mathfrak{Q}$ 06'36	4.10931 AU	conjunction	-12812 May 06 j 23:15	13° $\approx$ 34'03	-0°01'59
direct	-12818 Jun 27 j 14:46	1° $\mathfrak{Q}$ 07'48		minimum elong	-12812 May 06 j 23:16	13° $\approx$ 34'03	0°02'35
desc. node	-12818 Aug 06 j 06:06	3° $\mathfrak{Q}$ 40'01		behind sun begin	-12812 May 06 j 15:12	13° $\approx$ 29'34	
	-12818 Oct 07 j 15:49	15° $\mathfrak{Q}$		behind sun end	-12812 May 07 j 07:20	13° $\approx$ 38'33	
evening set	-12818 Oct 28 j 18:44	19° $\mathfrak{Q}$ 48'41		max. Earth dist.	-12812 May 06 j 02:29	13° $\approx$ 22'25	6.30465 AU
					-12812 May 13 j 08:50	15° $\approx$	
conjunction	-12818 Nov 11 j 04:13	22° $\mathfrak{Q}$ 56'10	-0°15'38	morning rise	-12812 May 19 j 22:09	16° $\approx$ 27'42	
minimum elong	-12818 Nov 11 j 04:10	22° $\mathfrak{Q}$ 56'08	0°15'07	asc. node	-12812 May 19 j 22:40	16° $\approx$ 28'00	
behind sun begin	-12818 Nov 11 j 01:30	22° $\mathfrak{Q}$ 54'35			-12812 Jul 29 j 00:04	0° $\mathfrak{H}$	
behind sun end	-12818 Nov 11 j 06:51	22° $\mathfrak{Q}$ 57'42		retrograde	-12812 Sep 17 j 16:30	3° $\mathfrak{H}$ 50'45	
max. Earth dist.	-12818 Nov 12 j 03:44	23° $\mathfrak{Q}$ 09'54	6.08648 AU		-12812 Nov 08 j 19:18	30° $\mathfrak{R}$ $\approx$	
morning rise	-12818 Nov 24 j 17:20	26° $\mathfrak{Q}$ 05'33		opposition	-12812 Nov 16 j 20:21	28° $\approx$ 58'24	0°38'52
	-12818 Dec 11 j 19:52	0° $\mathfrak{P}$		min. Earth dist.	-12812 Nov 17 j 12:47	28° $\approx$ 53'07	4.32499 AU
retrograde	-12817 Apr 05 j 00:19	15° $\mathfrak{P}$ 55'58		direct	-12811 Jan 18 j 05:24	23° $\approx$ 57'10	
min. Earth dist.	-12817 Jun 03 j 07:45	10° $\mathfrak{P}$ 57'04	4.07403 AU		-12811 Mar 26 j 06:05	0° $\mathfrak{H}$	
opposition	-12817 Jun 04 j 00:53	10° $\mathfrak{P}$ 51'15	-1°10'14	evening set	-12811 May 25 j 20:10	12° $\mathfrak{H}$ 06'09	
direct	-12817 Aug 01 j 06:11	5° $\mathfrak{P}$ 54'05					
evening set	-12817 Dec 04 j 05:49	24° $\mathfrak{P}$ 57'44		conjunction	-12811 Jun 07 j 13:12	14° $\mathfrak{H}$ 56'22	0°54'27
				minimum elong	-12811 Jun 07 j 13:07	14° $\mathfrak{H}$ 56'20	0°54'13
conjunction	-12817 Dec 17 j 22:00	28° $\mathfrak{P}$ 08'34	-1°13'23	max. Earth dist.	-12811 Jun 06 j 12:44	14° $\mathfrak{H}$ 42'41	6.33509 AU
minimum elong	-12817 Dec 17 j 21:53	28° $\mathfrak{P}$ 08'30	1°13'20	morning rise	-12811 Jun 20 j 03:37	17° $\mathfrak{H}$ 45'16	
max. Earth dist.	-12817 Dec 19 j 00:12	28° $\mathfrak{P}$ 23'50	6.07193 AU		-12811 Aug 20 j 19:24	0° $\mathfrak{Y}$	
	-12817 Dec 25 j 21:23	0° $\mathfrak{L}$		retrograde	-12811 Oct 19 j 14:57	5° $\mathfrak{Y}$ 08'18	
morning rise	-12817 Dec 31 j 16:06	1° $\mathfrak{L}$ 20'25		opposition	-12811 Dec 19 j 14:22	0° $\mathfrak{Y}$ 16'21	1°52'42
retrograde	-12816 May 09 j 15:23	21° $\mathfrak{L}$ 03'31		min. Earth dist.	-12811 Dec 20 j 06:43	0° $\mathfrak{Y}$ 11'09	4.33596 AU
opposition	-12816 Jul 07 j 20:22	15° $\mathfrak{L}$ 59'12	-2°19'14		-12811 Dec 21 j 17:51	30° $\mathfrak{R}$ $\mathfrak{H}$	
min. Earth dist.	-12816 Jul 07 j 06:28	16° $\mathfrak{L}$ 03'58	4.08294 AU	direct	-12810 Feb 20 j 00:14	25° $\mathfrak{H}$ 18'05	
direct	-12816 Sep 04 j 06:51	10° $\mathfrak{L}$ 58'43			-12810 Apr 19 j 05:07	0° $\mathfrak{Y}$	
	-12815 Jan 08 j 10:13	0° $\mathfrak{M}$		evening set	-12810 Jun 25 j 23:21	13° $\mathfrak{Y}$ 15'58	
evening set	-12815 Jan 09 j 12:51	0° $\mathfrak{M}$ 15'16					
				conjunction	-12810 Jul 08 j 09:03	16° $\mathfrak{Y}$ 03'10	1°34'44
conjunction	-12815 Jan 23 j 06:00	3° $\mathfrak{M}$ 24'58	-1°44'22	minimum elong	-12810 Jul 08 j 08:58	16° $\mathfrak{Y}$ 03'07	1°34'58
minimum elong	-12815 Jan 23 j 05:56	3° $\mathfrak{M}$ 24'56	1°44'49	max. Earth dist.	-12810 Jul 07 j 13:23	15° $\mathfrak{Y}$ 52'06	6.32460 AU
max. Earth dist.	-12815 Jan 23 j 22:37	3° $\mathfrak{M}$ 34'34	6.10202 AU	morning rise	-12810 Jul 20 j 17:23	18° $\mathfrak{Y}$ 49'48	
morning rise	-12815 Feb 05 j 23:19	6° $\mathfrak{M}$ 34'36			-12810 Sep 13 j 08:33	0° $\mathfrak{B}$	
	-12815 Mar 16 j 08:51	15° $\mathfrak{M}$		retrograde	-12810 Nov 21 j 07:49	6° $\mathfrak{B}$ 34'07	
retrograde	-12815 Jun 13 j 03:54	25° $\mathfrak{M}$ 45'45		opposition	-12809 Jan 21 j 21:09	1° $\mathfrak{B}$ 40'46	2°34'03
opposition	-12815 Aug 11 j 00:03	20° $\mathfrak{M}$ 43'57	-2°37'23	min. Earth dist.	-12809 Jan 22 j 09:06	1° $\mathfrak{B}$ 37'00	4.30585 AU
min. Earth dist.	-12815 Aug 10 j 17:02	20° $\mathfrak{M}$ 46'21	4.13231 AU		-12809 Feb 04 j 10:29	30° $\mathfrak{R}$ $\mathfrak{Y}$	
direct	-12815 Oct 09 j 07:32	15° $\mathfrak{M}$ 40'45		direct	-12809 Mar 24 j 17:57	26° $\mathfrak{Y}$ 45'29	
	-12814 Jan 24 j 06:54	0° $\text{X}$			-12809 May 10 j 22:11	0° $\mathfrak{B}$	
evening set	-12814 Feb 15 j 06:41	4° $\text{X}$ 53'06		evening set	-12809 Jul 26 j 23:34	14° $\mathfrak{B}$ 42'06	
					-12809 Jul 28 j 07:13	15° $\mathfrak{B}$	
conjunction	-12814 Feb 28 j 21:37	7° $\text{X}$ 59'05	-1°37'51				
minimum elong	-12814 Feb 28 j 21:41	7° $\text{X}$ 59'08	1°38'38	conjunction	-12809 Aug 08 j 07:22	17° $\mathfrak{B}$ 30'11	1°47'34
max. Earth dist.	-12814 Mar 01 j 00:28	8° $\text{X}$ 00'43	6.16615 AU	minimum elong	-12809 Aug 08 j 07:22	17° $\mathfrak{B}$ 30'11	1°48'10
morning rise	-12814 Mar 14 j 10:38	11° $\text{X}$ 04'00		max. Earth dist.	-12809 Aug 07 j 19:40	17° $\mathfrak{B}$ 23'32	6.27609 AU



Attention, astronomical year style is used: The year -12809 in astronomical counting style is the year 12810 BCE in historical counting style.

morning rise	-12809 Aug 20 j 16:00	20° <b>8</b> 18'46		opposition	-12803 Aug 15 j 18:34	25° <b>ℓ</b> 41'47	-2°35'18
	-12809 Oct 05 j 08:57	0° <b>Π</b>		min. Earth dist.	-12803 Aug 15 j 13:18	25° <b>ℓ</b> 43'35	4.14030 AU
retrograde	-12809 Dec 25 j 02:46	8° <b>Π</b> 39'22		direct	-12803 Oct 14 j 06:25	20° <b>ℓ</b> 38'19	
opposition	-12808 Feb 24 j 21:08	3° <b>Π</b> 43'05	2°29'54		-12802 Jan 05 j 08:36	0° <b>♂</b>	
min. Earth dist.	-12808 Feb 25 j 00:20	3° <b>Π</b> 42'03	4.24258 AU	evening set	-12802 Feb 20 j 08:44	9° <b>♂</b> 48'55	
	-12808 Mar 29 j 02:36	30° <b>℞</b>					
direct	-12808 Apr 25 j 16:39	28° <b>8</b> 49'43		conjunction	-12802 Mar 05 j 23:13	12° <b>♂</b> 54'19	-1°33'59
	-12808 May 23 j 02:03	0° <b>Π</b>		minimum elong	-12802 Mar 05 j 23:18	12° <b>♂</b> 54'22	1°34'47
evening set	-12808 Aug 26 j 15:27	16° <b>Π</b> 54'45		max. Earth dist.	-12802 Mar 06 j 00:47	12° <b>♂</b> 55'12	6.17631 AU
				morning rise	-12802 Mar 19 j 11:31	15° <b>♂</b> 58'29	
conjunction	-12808 Sep 08 j 04:58	19° <b>Π</b> 48'12	1°27'47		-12802 May 29 j 03:25	0° <b>♂</b>	
minimum elong	-12808 Sep 08 j 05:04	19° <b>Π</b> 48'16	1°28'36	retrograde	-12802 Jul 21 j 02:47	4° <b>♂</b> 18'20	
max. Earth dist.	-12808 Sep 08 j 07:34	19° <b>Π</b> 49'42	6.20347 AU		-12802 Sep 13 j 04:44	30° <b>℞</b> ♂	
morning rise	-12808 Sep 20 j 20:50	22° <b>Π</b> 43'04		opposition	-12802 Sep 18 j 02:09	29° <b>♂</b> 20'43	-1°52'31
	-12808 Oct 23 j 21:52	0° <b>♄</b>		min. Earth dist.	-12802 Sep 18 j 05:32	29° <b>♂</b> 19'35	4.21588 AU
retrograde	-12807 Jan 28 j 02:43	11° <b>♄</b> 45'08		direct	-12802 Nov 17 j 18:42	24° <b>♂</b> 16'24	
opposition	-12807 Mar 30 j 13:47	6° <b>♄</b> 45'19	1°37'49		-12801 Jan 20 j 20:04	0° <b>♂</b>	
min. Earth dist.	-12807 Mar 30 j 07:33	6° <b>♄</b> 47'20	4.16531 AU	evening set	-12801 Mar 27 j 07:01	13° <b>♂</b> 05'58	
direct	-12807 May 29 j 04:28	1° <b>♄</b> 52'19					
evening set	-12807 Sep 28 j 17:24	20° <b>♄</b> 14'26		conjunction	-12801 Apr 09 j 16:03	16° <b>♂</b> 06'10	-0°51'17
				minimum elong	-12801 Apr 09 j 16:08	16° <b>♂</b> 06'13	0°52'05
conjunction	-12807 Oct 11 j 17:31	23° <b>♄</b> 15'53	0°39'00	max. Earth dist.	-12801 Apr 09 j 02:48	15° <b>♂</b> 58'42	6.25308 AU
minimum elong	-12807 Oct 11 j 17:35	23° <b>♄</b> 15'56	0°39'47	morning rise	-12801 Apr 22 j 21:58	19° <b>♂</b> 04'39	
max. Earth dist.	-12807 Oct 12 j 08:13	23° <b>♄</b> 24'27	6.12923 AU		-12801 Jun 14 j 23:08	0° <b>♁</b>	
morning rise	-12807 Oct 24 j 21:24	26° <b>♄</b> 19'22		retrograde	-12801 Aug 22 j 08:33	6° <b>♁</b> 45'32	
	-12807 Nov 10 j 00:32	0° <b>♏</b>		opposition	-12801 Oct 20 j 20:31	1° <b>♁</b> 51'19	-0°35'22
	-12806 Feb 08 j 09:30	15° <b>♏</b>		min. Earth dist.	-12801 Oct 21 j 09:04	1° <b>♁</b> 47'12	4.28625 AU
retrograde	-12806 Mar 04 j 22:45	15° <b>♏</b> 56'17			-12801 Nov 04 j 08:29	30° <b>℞</b> ♂	
	-12806 Mar 29 j 07:54	15° <b>℞</b> ♏		direct	-12801 Dec 21 j 16:33	26° <b>♂</b> 48'01	
opposition	-12806 May 04 j 17:15	10° <b>♏</b> 53'09	0°10'46		-12800 Feb 07 j 00:15	0° <b>♁</b>	
min. Earth dist.	-12806 May 04 j 02:46	10° <b>♏</b> 57'58	4.09947 AU	asc. node	-12800 Mar 29 j 05:08	8° <b>♁</b> 44'27	
desc. node	-12806 Jun 17 j 23:38	6° <b>♏</b> 19'34			-12800 Apr 27 j 10:41	15° <b>♁</b>	
direct	-12806 Jul 02 j 07:44	5° <b>♏</b> 58'34		evening set	-12800 Apr 28 j 10:40	15° <b>♁</b> 13'18	
	-12806 Sep 19 j 08:11	15° <b>♏</b>					
evening set	-12806 Nov 02 j 17:06	24° <b>♏</b> 44'02		conjunction	-12800 May 11 j 11:47	18° <b>♁</b> 07'54	0°06'29
				minimum elong	-12800 May 11 j 11:46	18° <b>♁</b> 07'53	0°05'55
conjunction	-12806 Nov 16 j 04:03	27° <b>♏</b> 52'28	-0°24'22	behind sun begin	-12800 May 11 j 04:05	18° <b>♁</b> 03'37	
minimum elong	-12806 Nov 16 j 04:00	27° <b>♏</b> 52'26	0°23'56	behind sun end	-12800 May 11 j 19:27	18° <b>♁</b> 12'10	
max. Earth dist.	-12806 Nov 17 j 05:25	28° <b>♏</b> 07'18	6.07844 AU	max. Earth dist.	-12800 May 10 j 14:07	17° <b>♁</b> 55'48	6.31238 AU
	-12806 Nov 25 j 06:22	0° <b>♐</b>		morning rise	-12800 May 24 j 09:24	21° <b>♁</b> 00'44	
morning rise	-12806 Nov 29 j 18:13	1° <b>♐</b> 02'42			-12800 Jul 06 j 08:11	0° <b>♐</b>	
retrograde	-12805 Apr 10 j 01:24	20° <b>♐</b> 55'19		retrograde	-12800 Sep 22 j 02:06	8° <b>♐</b> 21'53	
opposition	-12805 Jun 08 j 21:46	15° <b>♐</b> 50'35	-1°22'01	opposition	-12800 Nov 21 j 09:58	3° <b>♐</b> 29'38	0°50'29
min. Earth dist.	-12805 Jun 08 j 05:17	15° <b>♐</b> 56'11	4.06881 AU	min. Earth dist.	-12800 Nov 22 j 02:15	3° <b>♐</b> 24'24	4.32999 AU
direct	-12805 Aug 06 j 02:16	10° <b>♐</b> 53'03			-12800 Dec 21 j 15:51	30° <b>℞</b> ♁	
evening set	-12805 Dec 09 j 10:16	0° <b>♑</b> 00'48		direct	-12799 Jan 22 j 19:38	28° <b>♁</b> 28'42	
	-12805 Dec 09 j 08:53	0° <b>♑</b>			-12799 Feb 24 j 03:04	0° <b>♐</b>	
				evening set	-12799 May 30 j 05:51	16° <b>♐</b> 35'16	
conjunction	-12805 Dec 23 j 02:48	3° <b>♑</b> 11'53	-1°19'39				
minimum elong	-12805 Dec 23 j 02:40	3° <b>♑</b> 11'49	1°19'41	conjunction	-12799 Jun 11 j 21:39	19° <b>♐</b> 24'52	1°01'22
max. Earth dist.	-12805 Dec 24 j 03:19	3° <b>♑</b> 26'10	6.06979 AU	minimum elong	-12799 Jun 11 j 21:34	19° <b>♐</b> 24'49	1°01'12
morning rise	-12804 Jan 05 j 21:20	6° <b>♑</b> 23'55		max. Earth dist.	-12799 Jun 10 j 21:38	19° <b>♐</b> 11'26	6.33684 AU
retrograde	-12804 May 14 j 12:59	26° <b>♑</b> 05'22		morning rise	-12799 Jun 24 j 10:55	22° <b>♐</b> 13'13	
opposition	-12804 Jul 12 j 16:31	21° <b>♑</b> 01'17	-2°25'08		-12799 Jul 31 j 02:56	0° <b>♑</b>	
min. Earth dist.	-12804 Jul 12 j 02:27	21° <b>♑</b> 06'06	4.08446 AU	retrograde	-12799 Oct 24 j 03:46	9° <b>♑</b> 37'46	
direct	-12804 Sep 09 j 04:28	16° <b>♑</b> 00'21		opposition	-12799 Dec 24 j 05:14	4° <b>♑</b> 45'45	2°00'48
	-12804 Dec 22 j 03:03	0° <b>♒</b>		min. Earth dist.	-12799 Dec 24 j 22:03	4° <b>♑</b> 40'25	4.33438 AU
evening set	-12803 Jan 14 j 18:40	5° <b>♒</b> 18'34			-12798 Feb 13 j 01:20	30° <b>℞</b> ♐	
				direct	-12798 Feb 24 j 15:22	29° <b>♐</b> 47'54	
conjunction	-12803 Jan 28 j 11:46	8° <b>♒</b> 28'00	-1°45'42		-12798 Mar 08 j 04:25	0° <b>♑</b>	
minimum elong	-12803 Jan 28 j 11:44	8° <b>♒</b> 27'58	1°46'13	evening set	-12798 Jun 30 j 07:23	17° <b>♑</b> 44'59	
max. Earth dist.	-12803 Jan 29 j 03:45	8° <b>♒</b> 37'13	6.10708 AU				
morning rise	-12803 Feb 11 j 04:35	11° <b>♒</b> 37'10		conjunction	-12798 Jul 12 j 16:22	20° <b>♑</b> 32'03	1°38'22
	-12803 Feb 26 j 03:10	15° <b>♒</b>		minimum elong	-12798 Jul 12 j 16:17	20° <b>♑</b> 32'01	1°38'39
	-12803 May 28 j 04:39	0° <b>♈</b>		max. Earth dist.	-12798 Jul 11 j 20:08	20° <b>♑</b> 20'39	6.31951 AU
retrograde	-12803 Jun 18 j 00:25	0° <b>♈</b> 43'08		morning rise	-12798 Jul 25 j 00:27	23° <b>♑</b> 18'44	
	-12803 Jul 08 j 14:04	30° <b>℞</b> ♒			-12798 Aug 24 j 22:58	0° <b>♈</b>	

Attention, astronomical year style is used: The year -12798 in astronomical counting style is the year 12799 BCE in historical counting style.

retrograde	-12798 Nov 25 j 23:09	11°♄07'32		evening set	-12791 Jan 19 j 22:10	10°♌15'52	
opposition	-12797 Jan 26 j 14:17	6°♄13'49	2°36'24				
min. Earth dist.	-12797 Jan 27 j 00:58	6°♄10'26	4.29776 AU	conjunction	-12791 Feb 02 j 14:59	13°♌24'32	-1°46'16
direct	-12797 Mar 29 j 07:37	1°♄18'48		minimum elong	-12791 Feb 02 j 14:58	13°♌24'31	1°46'50
	-12797 Jul 12 j 03:26	15°♄		max. Earth dist.	-12791 Feb 03 j 05:44	13°♌33'01	6.12087 AU
evening set	-12797 Jul 31 j 08:55	19°♄16'27			-12791 Feb 09 j 13:06	15°♌	
				morning rise	-12791 Feb 16 j 07:11	16°♌32'48	
conjunction	-12797 Aug 12 j 17:14	22°♄05'07	1°46'46		-12791 Apr 22 j 23:51	0°♌	
minimum elong	-12797 Aug 12 j 17:15	22°♄05'07	1°47'26	retrograde	-12791 Jun 22 j 13:46	5°♌30'27	
max. Earth dist.	-12797 Aug 12 j 08:17	22°♄00'00	6.26565 AU	opposition	-12791 Aug 20 j 09:35	0°♌29'36	-2°32'07
morning rise	-12797 Aug 25 j 02:19	24°♄54'21		min. Earth dist.	-12791 Aug 20 j 04:46	0°♌31'14	4.15565 AU
	-12797 Sep 17 j 02:13	0°♌			-12791 Aug 24 j 00:38	30°♌	
retrograde	-12797 Dec 29 j 23:44	13°♌21'06		direct	-12791 Oct 19 j 00:52	25°♌25'55	
opposition	-12796 Feb 29 j 17:10	8°♌24'24	2°25'22		-12791 Dec 13 j 18:39	0°♌	
min. Earth dist.	-12796 Feb 29 j 19:39	8°♌23'36	4.23052 AU	evening set	-12790 Feb 25 j 05:41	14°♌32'09	
direct	-12796 Apr 30 j 09:02	3°♌31'12					
evening set	-12796 Aug 31 j 05:10	21°♌38'47		conjunction	-12790 Mar 10 j 19:22	17°♌36'36	-1°29'38
				minimum elong	-12790 Mar 10 j 19:27	17°♌36'39	1°30'26
conjunction	-12796 Sep 12 j 19:51	24°♌33'20	1°22'27	max. Earth dist.	-12790 Mar 10 j 17:21	17°♌35'27	6.19189 AU
minimum elong	-12796 Sep 12 j 19:57	24°♌33'24	1°23'16	morning rise	-12790 Mar 24 j 06:54	20°♌39'47	
max. Earth dist.	-12796 Sep 12 j 22:58	24°♌35'08	6.19091 AU		-12790 May 07 j 03:15	0°♌	
morning rise	-12796 Sep 25 j 13:26	27°♌29'28		retrograde	-12790 Jul 25 j 13:07	8°♌52'01	
	-12796 Oct 06 j 14:08	0°♌		opposition	-12790 Sep 22 j 13:20	3°♌54'57	-1°43'26
retrograde	-12795 Feb 02 j 03:09	16°♌37'47		min. Earth dist.	-12790 Sep 22 j 19:28	3°♌52'54	4.23003 AU
opposition	-12795 Apr 04 j 12:31	11°♌37'26	1°27'08		-12790 Oct 26 j 07:00	30°♌	
min. Earth dist.	-12795 Apr 04 j 04:14	11°♌40'08	4.15321 AU	direct	-12790 Nov 22 j 11:21	28°♌50'39	
direct	-12795 Jun 02 j 22:33	6°♌44'22			-12790 Dec 19 j 23:01	0°♌	
evening set	-12795 Oct 03 j 13:26	25°♌10'05		evening set	-12789 Mar 31 j 20:33	17°♌35'45	
conjunction	-12795 Oct 16 j 15:24	28°♌12'46	0°30'28	conjunction	-12789 Apr 14 j 04:48	20°♌35'09	-0°43'58
minimum elong	-12795 Oct 16 j 15:27	28°♌12'48	0°31'12	minimum elong	-12789 Apr 14 j 04:52	20°♌35'11	0°44'45
max. Earth dist.	-12795 Oct 17 j 09:39	28°♌23'24	6.11918 AU	max. Earth dist.	-12789 Apr 13 j 14:03	20°♌26'52	6.26474 AU
	-12795 Oct 24 j 07:24	0°♌		morning rise	-12789 Apr 27 j 09:33	23°♌32'45	
morning rise	-12795 Oct 29 j 20:52	1°♌17'26			-12789 May 27 j 06:52	0°♌	
	-12794 Jan 04 j 02:42	15°♌		retrograde	-12789 Aug 26 j 13:56	11°♌09'17	
retrograde	-12794 Mar 10 j 02:51	20°♌58'18		opposition	-12789 Oct 25 j 05:34	6°♌15'27	-0°23'46
desc. node	-12794 Apr 27 j 23:49	17°♌27'25		min. Earth dist.	-12789 Oct 25 j 18:42	6°♌11'10	4.29450 AU
opposition	-12794 May 09 j 17:29	15°♌54'54	-0°02'51	direct	-12789 Dec 26 j 03:22	1°♌12'24	
min. Earth dist.	-12794 May 09 j 02:33	15°♌59'53	4.09266 AU	asc. node	-12788 Feb 09 j 11:34	4°♌08'47	
	-12794 May 16 j 14:42	15°♌			-12788 Apr 11 j 16:37	15°♌	
direct	-12794 Jul 07 j 05:40	11°♌00'05		evening set	-12788 May 02 j 18:58	19°♌34'58	
	-12794 Aug 26 j 13:05	15°♌					
evening set	-12794 Nov 07 j 20:10	29°♌48'49		conjunction	-12788 May 15 j 18:45	22°♌28'53	0°14'21
	-12794 Nov 08 j 15:24	0°♌		minimum elong	-12788 May 15 j 18:43	22°♌28'52	0°13'50
				behind sun begin	-12788 May 15 j 14:28	22°♌26'30	
conjunction	-12794 Nov 21 j 08:04	2°♌57'50	-0°33'14	behind sun end	-12788 May 15 j 22:59	22°♌31'14	
minimum elong	-12794 Nov 21 j 08:00	2°♌57'48	0°32'50	max. Earth dist.	-12788 May 14 j 18:41	22°♌15'26	6.31655 AU
max. Earth dist.	-12794 Nov 22 j 09:33	3°♌12'44	6.07573 AU	morning rise	-12788 May 28 j 15:21	25°♌21'07	
morning rise	-12794 Dec 04 j 23:24	6°♌08'37			-12788 Jun 18 j 23:53	0°♌	
retrograde	-12793 Apr 15 j 01:42	26°♌00'34		retrograde	-12788 Sep 26 j 10:46	12°♌42'14	
opposition	-12793 Jun 13 j 20:38	20°♌55'46	-1°33'23	opposition	-12788 Nov 25 j 19:52	7°♌50'12	1°01'18
min. Earth dist.	-12793 Jun 13 j 02:50	21°♌01'50	4.07097 AU	min. Earth dist.	-12788 Nov 26 j 13:58	7°♌44'24	4.32985 AU
direct	-12793 Aug 11 j 00:56	15°♌57'48		direct	-12787 Jan 27 j 07:22	2°♌49'40	
	-12793 Nov 22 j 03:18	0°♌		evening set	-12787 Jun 03 j 11:41	20°♌55'47	
evening set	-12793 Dec 14 j 16:28	5°♌06'41		max. Earth dist.	-12787 Jun 15 j 01:55	23°♌31'19	6.33218 AU
conjunction	-12793 Dec 28 j 09:21	8°♌17'32	-1°25'23	conjunction	-12787 Jun 16 j 02:30	23°♌45'06	1°07'40
minimum elong	-12793 Dec 28 j 09:14	8°♌17'28	1°25'30	minimum elong	-12787 Jun 16 j 02:25	23°♌45'03	1°07'34
max. Earth dist.	-12793 Dec 29 j 10:26	8°♌32'08	6.07662 AU	morning rise	-12787 Jun 28 j 14:53	26°♌33'15	
morning rise	-12792 Jan 11 j 03:42	11°♌29'08			-12787 Jul 14 j 07:14	0°♌	
	-12792 Apr 23 j 16:03	0°♌		retrograde	-12787 Oct 28 j 13:52	14°♌01'50	
retrograde	-12792 May 19 j 11:00	1°♌05'01		opposition	-12787 Dec 28 j 17:50	9°♌09'42	2°08'00
	-12792 Jun 13 j 21:39	30°♌		min. Earth dist.	-12787 Dec 29 j 09:35	9°♌04'42	4.32592 AU
opposition	-12792 Jul 17 j 12:13	26°♌01'12	-2°29'50	direct	-12786 Mar 01 j 00:52	4°♌12'17	
min. Earth dist.	-12792 Jul 16 j 23:39	26°♌05'31	4.09536 AU	evening set	-12786 Jul 04 j 14:04	22°♌11'04	
direct	-12792 Sep 14 j 04:16	20°♌59'52					
	-12792 Dec 03 j 05:07	0°♌		conjunction	-12786 Jul 16 j 22:39	24°♌58'23	1°41'18

Attention, astronomical year style is used: The year -12786 in astronomical counting style is the year 12787 BCE in historical counting style.

minimum elong	-12786 Jul 16 j 22:35	24° $\Upsilon$ 58'21	1°41'38	retrograde	-12780 May 24 j 06:59	6° $\mathbb{M}$ 05'04	
max. Earth dist.	-12786 Jul 16 j 04:04	24° $\Upsilon$ 47'52	6.30782 AU	opposition	-12780 Jul 22 j 07:39	1° $\mathbb{M}$ 01'33	-2°33'33
morning rise	-12786 Jul 29 j 06:29	27° $\Upsilon$ 45'25		min. Earth dist.	-12780 Jul 21 j 19:20	1° $\mathbb{M}$ 05'47	4.10434 AU
	-12786 Aug 08 j 07:56	0° $\mathbb{B}$			-12780 Jul 29 j 20:33	30° $\mathbb{R}$ $\underline{\mathbb{A}}$	
	-12786 Nov 09 j 11:47	15° $\mathbb{B}$		direct	-12780 Sep 19 j 01:26	25° $\underline{\mathbb{A}}$ 59'48	
retrograde	-12786 Nov 30 j 16:57	15° $\mathbb{B}$ 41'01			-12780 Nov 09 j 03:38	0° $\mathbb{M}$	
	-12786 Dec 21 j 21:55	15° $\mathbb{R}$ $\mathbb{B}$			-12779 Jan 24 j 00:39	15° $\mathbb{M}$	
opposition	-12785 Jan 31 j 07:26	10° $\mathbb{B}$ 47'02	2°37'43	evening set	-12779 Jan 25 j 02:15	15° $\mathbb{M}$ .14'35	
min. Earth dist.	-12785 Jan 31 j 17:46	10° $\mathbb{B}$ 43'45	4.28375 AU				
direct	-12785 Apr 02 j 21:46	5° $\mathbb{B}$ 52'23		conjunction	-12779 Feb 07 j 18:36	18° $\mathbb{M}$ .22'36	-1°46'08
	-12785 Jun 24 j 08:21	15° $\mathbb{B}$		minimum elong	-12779 Feb 07 j 18:36	18° $\mathbb{M}$ .22'36	1°46'45
evening set	-12785 Aug 04 j 18:53	23° $\mathbb{B}$ 52'58		max. Earth dist.	-12779 Feb 08 j 05:51	18° $\mathbb{M}$ .29'03	6.13157 AU
				morning rise	-12779 Feb 21 j 10:17	21° $\mathbb{M}$ .30'07	
conjunction	-12785 Aug 17 j 03:42	26° $\mathbb{B}$ 42'28	1°45'13		-12779 Apr 01 j 11:28	0° $\mathbb{A}$	
minimum elong	-12785 Aug 17 j 03:43	26° $\mathbb{B}$ 42'29	1°45'55	retrograde	-12779 Jun 27 j 06:06	10° $\mathbb{A}$ .20'53	
max. Earth dist.	-12785 Aug 16 j 19:41	26° $\mathbb{B}$ 37'53	6.25042 AU	opposition	-12779 Aug 25 j 01:50	5° $\mathbb{A}$ .20'31	-2°28'03
morning rise	-12785 Aug 29 j 13:50	29° $\mathbb{B}$ 32'45		min. Earth dist.	-12779 Aug 24 j 23:26	5° $\mathbb{A}$ .21'20	4.16702 AU
	-12785 Aug 31 j 13:49	0° $\mathbb{I}$		direct	-12779 Oct 23 j 22:20	0° $\mathbb{A}$ .16'36	
retrograde	-12784 Jan 03 j 21:42	18° $\mathbb{I}$ 07'14		evening set	-12778 Mar 02 j 04:06	19° $\mathbb{A}$ .19'56	
opposition	-12784 Mar 05 j 14:41	13° $\mathbb{I}$ 09'59	2°19'45				
min. Earth dist.	-12784 Mar 05 j 14:18	13° $\mathbb{I}$ 10'07	4.21525 AU	conjunction	-12778 Mar 15 j 17:22	22° $\mathbb{A}$ .23'43	-1°24'41
direct	-12784 May 05 j 00:38	8° $\mathbb{I}$ 16'57		minimum elong	-12778 Mar 15 j 17:27	22° $\mathbb{A}$ .23'46	1°25'30
evening set	-12784 Sep 04 j 20:33	26° $\mathbb{I}$ 27'55		max. Earth dist.	-12778 Mar 15 j 14:16	22° $\mathbb{A}$ .21'57	6.20318 AU
				morning rise	-12778 Mar 29 j 03:56	25° $\mathbb{A}$ .26'05	
conjunction	-12784 Sep 17 j 12:51	29° $\mathbb{I}$ 23'45	1°16'25		-12778 Apr 18 j 20:08	0° $\mathbb{B}$	
minimum elong	-12784 Sep 17 j 12:57	29° $\mathbb{I}$ 23'48	1°17'14	retrograde	-12778 Jul 30 j 00:35	13° $\mathbb{B}$ .32'18	
max. Earth dist.	-12784 Sep 17 j 20:13	29° $\mathbb{I}$ 28'01	6.17705 AU	opposition	-12778 Sep 27 j 03:15	8° $\mathbb{B}$ .35'45	-1°33'37
	-12784 Sep 20 j 03:26	0° $\mathbb{C}$		min. Earth dist.	-12778 Sep 27 j 10:00	8° $\mathbb{B}$ .33'31	4.24023 AU
morning rise	-12784 Sep 30 j 07:53	2° $\mathbb{C}$ 21'10		direct	-12778 Nov 27 j 04:25	3° $\mathbb{B}$ .31'33	
retrograde	-12783 Feb 07 j 06:39	21° $\mathbb{C}$ 35'42		evening set	-12777 Apr 05 j 13:09	22° $\mathbb{B}$ .13'26	
opposition	-12783 Apr 09 j 12:59	16° $\mathbb{C}$ 34'49	1°15'34				
min. Earth dist.	-12783 Apr 09 j 03:40	16° $\mathbb{C}$ 37'52	4.14174 AU	conjunction	-12777 Apr 18 j 20:13	25° $\mathbb{B}$ .12'03	-0°36'11
direct	-12783 Jun 07 j 19:44	11° $\mathbb{C}$ 41'37		minimum elong	-12777 Apr 18 j 20:17	25° $\mathbb{B}$ .12'05	0°36'56
	-12783 Oct 07 j 17:36	0° $\mathbb{D}$		max. Earth dist.	-12777 Apr 18 j 02:16	25° $\mathbb{B}$ .01'59	6.27317 AU
evening set	-12783 Oct 08 j 11:43	0° $\mathbb{D}$ 10'30		morning rise	-12777 May 02 j 00:05	28° $\mathbb{B}$ .08'56	
					-12777 May 10 j 08:31	0° $\mathbb{C}$	
conjunction	-12783 Oct 21 j 15:07	3° $\mathbb{D}$ 14'13	0°21'34		-12777 Aug 10 j 04:13	15° $\mathbb{C}$	
minimum elong	-12783 Oct 21 j 15:10	3° $\mathbb{D}$ 14'15	0°22'15	retrograde	-12777 Aug 31 j 01:53	15° $\mathbb{C}$ .42'16	
max. Earth dist.	-12783 Oct 22 j 10:33	3° $\mathbb{D}$ 25'33	6.11096 AU		-12777 Sep 20 j 22:52	15° $\mathbb{R}$	
morning rise	-12783 Nov 03 j 22:23	6° $\mathbb{D}$ 20'00		opposition	-12777 Oct 29 j 18:56	10° $\mathbb{C}$ .48'48	-0°11'37
	-12783 Dec 13 j 04:18	15° $\mathbb{D}$		min. Earth dist.	-12777 Oct 30 j 09:59	10° $\mathbb{C}$ .43'54	4.30050 AU
desc. node	-12782 Mar 06 j 22:55	25° $\mathbb{D}$ 56'53		asc. node	-12777 Dec 21 j 03:30	5° $\mathbb{C}$ .54'40	
retrograde	-12782 Mar 15 j 04:33	26° $\mathbb{D}$ 03'26		direct	-12777 Dec 30 j 20:25	5° $\mathbb{C}$ .46'00	
opposition	-12782 May 14 j 18:00	20° $\mathbb{D}$ 59'36	-0°16'36		-12776 Mar 24 j 17:16	15° $\mathbb{C}$	
min. Earth dist.	-12782 May 14 j 01:02	21° $\mathbb{D}$ 05'18	4.08830 AU	evening set	-12776 May 07 j 06:58	24° $\mathbb{C}$ .06'15	
direct	-12782 Jul 12 j 03:41	16° $\mathbb{D}$ 04'22		max. Earth dist.	-12776 May 19 j 05:58	26° $\mathbb{C}$ .46'17	6.31975 AU
	-12782 Oct 22 j 09:03	0° $\mathbb{E}$					
evening set	-12782 Nov 13 j 00:00	4° $\mathbb{E}$ 55'31		conjunction	-12776 May 20 j 05:40	26° $\mathbb{C}$ .59'32	0°22'28
				minimum elong	-12776 May 20 j 05:38	26° $\mathbb{C}$ .59'30	0°22'00
conjunction	-12782 Nov 26 j 13:00	8° $\mathbb{E}$ 04'58	-0°41'54	morning rise	-12776 Jun 02 j 00:56	29° $\mathbb{C}$ .51'07	
minimum elong	-12782 Nov 26 j 12:55	8° $\mathbb{E}$ 04'55	0°41'34		-12776 Jun 02 j 16:55	0° $\mathbb{H}$	
max. Earth dist.	-12782 Nov 27 j 16:04	8° $\mathbb{E}$ 20'47	6.07522 AU	retrograde	-12776 Sep 30 j 21:20	17° $\mathbb{H}$ .12'25	
morning rise	-12782 Dec 10 j 04:59	11° $\mathbb{E}$ 16'01		opposition	-12776 Nov 30 j 09:58	12° $\mathbb{H}$ .20'30	1°12'15
	-12781 Mar 24 j 20:51	0° $\underline{\mathbb{A}}$		min. Earth dist.	-12776 Dec 01 j 03:14	12° $\mathbb{H}$ .14'59	4.33030 AU
retrograde	-12781 Apr 20 j 03:52	1° $\underline{\mathbb{A}}$ 06'21		direct	-12775 Jan 31 j 20:37	7° $\mathbb{H}$ .20'26	
	-12781 May 16 j 02:46	30° $\mathbb{R}$ $\mathbb{E}$		evening set	-12775 Jun 07 j 21:27	25° $\mathbb{H}$ .25'35	
opposition	-12781 Jun 18 j 19:28	26° $\mathbb{E}$ 01'29	-1°44'07	max. Earth dist.	-12775 Jun 19 j 10:24	28° $\mathbb{H}$ .00'37	6.32984 AU
min. Earth dist.	-12781 Jun 18 j 02:44	26° $\mathbb{E}$ 07'12	4.07420 AU				
direct	-12781 Aug 16 j 01:43	21° $\mathbb{E}$ 02'59		conjunction	-12775 Jun 20 j 11:02	28° $\mathbb{H}$ .14'28	1°13'51
	-12781 Nov 02 j 23:16	0° $\underline{\mathbb{A}}$		minimum elong	-12775 Jun 20 j 10:57	28° $\mathbb{H}$ .14'24	1°13'50
evening set	-12781 Dec 19 j 22:36	10° $\underline{\mathbb{A}}$ 12'41			-12775 Jun 28 j 07:06	0° $\mathbb{Y}$	
				morning rise	-12775 Jul 02 j 22:35	1° $\mathbb{Y}$ 02'18	
conjunction	-12780 Jan 02 j 15:38	13° $\underline{\mathbb{A}}$ 23'17	-1°30'32	retrograde	-12775 Nov 02 j 05:58	18° $\mathbb{Y}$ 34'05	
minimum elong	-12780 Jan 02 j 15:31	13° $\underline{\mathbb{A}}$ 23'13	1°30'43	opposition	-12774 Jan 02 j 10:31	13° $\mathbb{Y}$ 41'51	2°14'46
max. Earth dist.	-12780 Jan 03 j 16:01	13° $\underline{\mathbb{A}}$ 37'25	6.08290 AU	min. Earth dist.	-12774 Jan 03 j 02:29	13° $\mathbb{Y}$ 36'48	4.32120 AU
morning rise	-12780 Jan 16 j 09:53	16° $\underline{\mathbb{A}}$ 34'27		direct	-12774 Mar 05 j 16:43	8° $\mathbb{Y}$ 44'53	
	-12780 Mar 21 j 00:15	0° $\mathbb{M}$		evening set	-12774 Jul 08 j 23:18	26° $\mathbb{Y}$ 43'42	

Attention, astronomical year style is used: The year -12774 in astronomical counting style is the year 12775 BCE in historical counting style.

conjunction	-12774 Jul 21 j 07:32	29° $\Upsilon$ 31'05	1°43'47	conjunction	-12768 Jan 07 j 18:37	18° $\Omega$ 20'31	-1°34'53
minimum elong	-12774 Jul 21 j 07:29	29° $\Upsilon$ 31'03	1°44'11	minimum elong	-12768 Jan 07 j 18:31	18° $\Omega$ 20'28	1°35'07
max. Earth dist.	-12774 Jul 20 j 14:29	29° $\Upsilon$ 21'25	6.30112 AU	max. Earth dist.	-12768 Jan 08 j 16:00	18° $\Omega$ 32'55	6.08712 AU
	-12774 Jul 23 j 10:35	0° $\mathcal{B}$		morning rise	-12768 Jan 21 j 12:49	21° $\Omega$ 31'24	
morning rise	-12774 Aug 02 j 15:16	2° $\mathcal{B}$ 18'19			-12768 Feb 29 j 00:49	0° $\mathcal{M}$	
	-12774 Oct 04 j 22:32	15° $\mathcal{B}$		retrograde	-12768 May 29 j 00:58	10° $\mathcal{M}$ 57'56	
retrograde	-12774 Dec 05 j 10:12	20° $\mathcal{B}$ 18'54		opposition	-12768 Jul 27 j 00:19	5° $\mathcal{M}$ 54'47	-2°36'08
opposition	-12773 Feb 05 j 02:36	15° $\mathcal{B}$ 24'31	2°38'09	min. Earth dist.	-12768 Jul 26 j 13:58	5° $\mathcal{M}$ 58'20	4.11001 AU
min. Earth dist.	-12773 Feb 05 j 10:21	15° $\mathcal{B}$ 22'04	4.27587 AU	direct	-12768 Sep 23 j 21:36	0° $\mathcal{M}$ 52'38	
	-12773 Feb 08 j 08:02	15° $\mathcal{R}\mathcal{B}$			-12767 Jan 07 j 04:13	15° $\mathcal{M}$	
direct	-12773 Apr 07 j 12:04	10° $\mathcal{B}$ 30'15		evening set	-12767 Jan 30 j 03:28	20° $\mathcal{M}$ 07'29	
	-12773 Jun 02 j 06:19	15° $\mathcal{B}$					
evening set	-12773 Aug 09 j 05:59	28° $\mathcal{B}$ 31'30		conjunction	-12767 Feb 12 j 19:46	23° $\mathcal{M}$ 15'09	-1°45'15
	-12773 Aug 15 j 17:02	0° $\mathcal{I}$		minimum elong	-12767 Feb 12 j 19:47	23° $\mathcal{M}$ 15'10	1°45'54
				max. Earth dist.	-12767 Feb 13 j 05:59	23° $\mathcal{M}$ 21'01	6.13830 AU
conjunction	-12773 Aug 21 j 15:26	1° $\mathcal{I}$ 21'37	1°43'05	morning rise	-12767 Feb 26 j 10:48	26° $\mathcal{M}$ 22'08	
minimum elong	-12773 Aug 21 j 15:29	1° $\mathcal{I}$ 21'38	1°43'48		-12767 Mar 14 j 14:59	0° $\mathcal{J}$	
max. Earth dist.	-12773 Aug 21 j 10:38	1° $\mathcal{I}$ 18'52	6.24211 AU	retrograde	-12767 Jul 01 j 21:04	15° $\mathcal{J}$ 07'45	
morning rise	-12773 Sep 03 j 02:18	4° $\mathcal{I}$ 12'36		opposition	-12767 Aug 29 j 16:46	10° $\mathcal{J}$ 07'57	-2°23'02
retrograde	-12772 Jan 08 j 20:38	22° $\mathcal{I}$ 52'12		min. Earth dist.	-12767 Aug 29 j 15:21	10° $\mathcal{J}$ 08'26	4.17417 AU
opposition	-12772 Mar 10 j 11:51	17° $\mathcal{I}$ 54'28	2°13'14	direct	-12767 Oct 28 j 16:06	5° $\mathcal{J}$ 03'57	
min. Earth dist.	-12772 Mar 10 j 10:46	17° $\mathcal{I}$ 54'49	4.20696 AU	evening set	-12766 Mar 07 j 01:27	24° $\mathcal{J}$ 05'52	
direct	-12772 May 09 j 19:02	13° $\mathcal{I}$ 01'32					
	-12772 Sep 04 j 02:45	0° $\mathcal{E}$		conjunction	-12766 Mar 20 j 13:58	27° $\mathcal{J}$ 09'08	-1°19'11
evening set	-12772 Sep 09 j 11:17	1° $\mathcal{E}$ 13'42		minimum elong	-12766 Mar 20 j 14:04	27° $\mathcal{J}$ 09'11	1°20'00
				max. Earth dist.	-12766 Mar 20 j 07:14	27° $\mathcal{J}$ 05'19	6.21028 AU
conjunction	-12772 Sep 22 j 04:53	4° $\mathcal{E}$ 10'27	1°09'59	morning rise	-12766 Apr 02 j 23:58	0° $\mathcal{S}$ 10'58	
minimum elong	-12772 Sep 22 j 04:58	4° $\mathcal{E}$ 10'30	1°10'49		-12766 Apr 02 j 04:28	0° $\mathcal{S}$	
max. Earth dist.	-12772 Sep 22 j 13:37	4° $\mathcal{E}$ 15'31	6.16963 AU	retrograde	-12766 Aug 03 j 13:48	18° $\mathcal{S}$ 12'53	
morning rise	-12772 Oct 05 j 01:39	7° $\mathcal{E}$ 08'57		opposition	-12766 Oct 01 j 17:24	13° $\mathcal{S}$ 16'50	-1°23'13
retrograde	-12771 Feb 12 j 04:40	26° $\mathcal{E}$ 27'14		min. Earth dist.	-12766 Oct 02 j 01:48	13° $\mathcal{S}$ 14'02	4.24664 AU
opposition	-12771 Apr 14 j 10:34	21° $\mathcal{E}$ 25'52	1°03'45	direct	-12766 Dec 01 j 22:47	8° $\mathcal{S}$ 12'41	
min. Earth dist.	-12771 Apr 13 j 23:01	21° $\mathcal{E}$ 29'39	4.13565 AU	evening set	-12765 Apr 10 j 05:44	26° $\mathcal{S}$ 52'33	
direct	-12771 Jun 12 j 13:03	16° $\mathcal{E}$ 32'30					
	-12771 Sep 21 j 01:14	0° $\mathcal{O}$		conjunction	-12765 Apr 23 j 11:59	29° $\mathcal{S}$ 50'36	-0°28'08
evening set	-12771 Oct 13 j 07:18	5° $\mathcal{O}$ 03'11		minimum elong	-12765 Apr 23 j 12:02	29° $\mathcal{S}$ 50'38	0°28'51
				max. Earth dist.	-12765 Apr 22 j 18:21	29° $\mathcal{S}$ 40'42	6.27874 AU
conjunction	-12771 Oct 26 j 12:16	8° $\mathcal{O}$ 07'45	0°12'46		-12765 Apr 24 j 04:45	0° $\approx$	
minimum elong	-12771 Oct 26 j 12:17	8° $\mathcal{O}$ 07'46	0°13'25	morning rise	-12765 May 06 j 14:39	2° $\approx$ 46'50	
behind sun begin	-12771 Oct 26 j 07:39	8° $\mathcal{O}$ 05'05			-12765 Jul 06 j 15:01	15° $\approx$	
behind sun end	-12771 Oct 26 j 16:55	8° $\mathcal{O}$ 10'28		retrograde	-12765 Sep 04 j 13:28	20° $\approx$ 17'55	
max. Earth dist.	-12771 Oct 27 j 09:45	8° $\mathcal{O}$ 20'18	6.10678 AU	asc. node	-12765 Oct 31 j 06:36	15° $\approx$ 48'59	
morning rise	-12771 Nov 08 j 20:52	11° $\mathcal{O}$ 14'20		opposition	-12765 Nov 03 j 09:11	15° $\approx$ 24'47	0°00'41
	-12771 Nov 25 j 08:19	15° $\mathcal{O}$		min. Earth dist.	-12765 Nov 03 j 23:57	15° $\approx$ 20'00	4.30482 AU
desc. node	-12770 Jan 14 j 22:08	25° $\mathcal{O}$ 06'17			-12765 Nov 06 j 13:36	15° $\mathcal{R}\approx$	
	-12770 Feb 23 j 02:48	0° $\mathcal{M}$		direct	-12764 Jan 04 j 11:51	10° $\approx$ 22'21	
retrograde	-12770 Mar 20 j 04:58	0° $\mathcal{M}$ 59'12			-12764 Mar 02 j 08:15	15° $\approx$	
	-12770 Apr 14 j 00:45	30° $\mathcal{R}\mathcal{O}$		evening set	-12764 May 11 j 19:40	28° $\approx$ 40'33	
opposition	-12770 May 19 j 14:52	25° $\mathcal{O}$ 55'06	-0°29'48		-12764 May 17 j 18:22	0° $\mathcal{H}$	
min. Earth dist.	-12770 May 18 j 22:29	26° $\mathcal{O}$ 00'36	4.08617 AU				
direct	-12770 Jul 17 j 00:27	20° $\mathcal{O}$ 59'27		conjunction	-12764 May 24 j 16:55	1° $\mathcal{H}$ 33'08	0°30'32
	-12770 Oct 03 j 21:28	0° $\mathcal{M}$		minimum elong	-12764 May 24 j 16:52	1° $\mathcal{H}$ 33'07	0°30'09
evening set	-12770 Nov 18 j 00:31	9° $\mathcal{M}$ 52'44		max. Earth dist.	-12764 May 23 j 15:55	1° $\mathcal{H}$ 19'09	6.32245 AU
				morning rise	-12764 Jun 06 j 11:12	4° $\mathcal{H}$ 24'10	
conjunction	-12770 Dec 01 j 14:21	13° $\mathcal{M}$ 02'32	-0°49'59	retrograde	-12764 Oct 05 j 11:29	21° $\mathcal{H}$ 45'48	
minimum elong	-12770 Dec 01 j 14:15	13° $\mathcal{M}$ 02'28	0°49'44	opposition	-12764 Dec 05 j 01:34	16° $\mathcal{H}$ 53'54	1°22'53
max. Earth dist.	-12770 Dec 02 j 17:16	13° $\mathcal{M}$ 18'14	6.07523 AU	min. Earth dist.	-12764 Dec 05 j 19:15	16° $\mathcal{H}$ 48'16	4.33130 AU
morning rise	-12770 Dec 15 j 07:02	16° $\mathcal{M}$ 13'49		direct	-12763 Feb 05 j 12:57	11° $\mathcal{H}$ 54'12	
	-12769 Feb 19 j 12:07	0° $\mathcal{A}$		evening set	-12763 Jun 12 j 07:20	29° $\mathcal{H}$ 57'43	
retrograde	-12769 Apr 25 j 00:53	6° $\mathcal{A}$ 02'30			-12763 Jun 12 j 11:25	0° $\mathcal{Y}$	
opposition	-12769 Jun 23 j 14:10	0° $\mathcal{A}$ 57'44	-1°53'46				
min. Earth dist.	-12769 Jun 22 j 21:26	1° $\mathcal{A}$ 03'27	4.07656 AU	conjunction	-12763 Jun 24 j 20:00	2° $\mathcal{Y}$ 46'09	1°19'40
	-12769 Jun 30 j 16:19	30° $\mathcal{R}\mathcal{M}$		minimum elong	-12763 Jun 24 j 19:55	2° $\mathcal{Y}$ 46'06	1°19'42
direct	-12769 Aug 20 j 20:03	25° $\mathcal{M}$ 58'47		max. Earth dist.	-12763 Jun 23 j 21:30	2° $\mathcal{Y}$ 33'31	6.32888 AU
	-12769 Oct 10 j 11:06	0° $\mathcal{A}$		morning rise	-12763 Jul 07 j 06:33	5° $\mathcal{Y}$ 33'37	
evening set	-12769 Dec 25 j 01:33	15° $\mathcal{A}$ 10'06		retrograde	-12763 Nov 06 j 19:41	23° $\mathcal{Y}$ 07'57	
				opposition	-12762 Jan 07 j 03:27	18° $\mathcal{Y}$ 15'27	2°20'44

Attention, astronomical year style is used: The year -12762 in astronomical counting style is the year 12763 BCE in historical counting style.

min. Earth dist.	-12762 Jan 07 j 17:33	18° $\Upsilon$ 10'59	4.31849 AU	evening set	-12757 Dec 30 j 06:24	20° $\Omega$ 11'34	
direct	-12762 Mar 10 j 06:39	13° $\Upsilon$ 18'54					
	-12762 Jul 07 j 15:22	0° $\mathcal{B}$		conjunction	-12756 Jan 12 j 23:46	23° $\Omega$ 21'56	-1°38'36
evening set	-12762 Jul 13 j 08:32	1° $\mathcal{B}$ 16'49		minimum elong	-12756 Jan 12 j 23:41	23° $\Omega$ 21'52	1°38'55
				max. Earth dist.	-12756 Jan 13 j 21:07	23° $\Omega$ 34'18	6.08960 AU
conjunction	-12762 Jul 25 j 16:21	4° $\mathcal{B}$ 04'11	1°45'40	morning rise	-12756 Jan 26 j 17:38	26° $\Omega$ 32'31	
minimum elong	-12762 Jul 25 j 16:18	4° $\mathcal{B}$ 04'10	1°46'08		-12756 Feb 10 j 23:08	0° $\mathcal{M}$	
max. Earth dist.	-12762 Jul 25 j 00:30	3° $\mathcal{B}$ 55'11	6.29652 AU		-12756 May 10 j 06:13	15° $\mathcal{M}$	
morning rise	-12762 Aug 07 j 00:04	6° $\mathcal{B}$ 51'34		retrograde	-12756 Jun 02 j 21:38	15° $\mathcal{M}$ 55'15	
	-12762 Sep 13 j 22:44	15° $\mathcal{B}$			-12756 Jun 26 j 06:54	15° $\mathcal{R}\mathcal{M}$	
retrograde	-12762 Dec 10 j 05:16	24° $\mathcal{B}$ 56'19		opposition	-12756 Jul 31 j 19:00	10° $\mathcal{M}$ 52'31	-2°37'40
opposition	-12761 Feb 09 j 21:21	20° $\mathcal{B}$ 01'28	2°37'37	min. Earth dist.	-12756 Jul 31 j 09:45	10° $\mathcal{M}$ 55'41	4.11474 AU
min. Earth dist.	-12761 Feb 10 j 04:46	19° $\mathcal{B}$ 59'07	4.26950 AU	direct	-12756 Sep 28 j 18:27	5° $\mathcal{M}$ 50'03	
direct	-12761 Apr 12 j 04:43	15° $\mathcal{B}$ 07'24			-12756 Dec 19 j 05:45	15° $\mathcal{M}$	
	-12761 Jul 30 j 16:45	0° $\mathcal{I}$		evening set	-12755 Feb 04 j 07:11	25° $\mathcal{M}$ 05'06	
evening set	-12761 Aug 13 j 16:22	3° $\mathcal{I}$ 08'50					
				conjunction	-12755 Feb 17 j 23:02	28° $\mathcal{M}$ 12'22	-1°43'37
conjunction	-12761 Aug 26 j 02:36	5° $\mathcal{I}$ 59'35	1°40'20	minimum elong	-12755 Feb 17 j 23:04	28° $\mathcal{M}$ 12'23	1°44'18
minimum elong	-12761 Aug 26 j 02:39	5° $\mathcal{I}$ 59'37	1°41'05	max. Earth dist.	-12755 Feb 18 j 05:46	28° $\mathcal{M}$ 16'13	6.14469 AU
max. Earth dist.	-12761 Aug 25 j 23:26	5° $\mathcal{I}$ 57'46	6.23444 AU		-12755 Feb 25 j 19:15	0° $\mathcal{J}$	
morning rise	-12761 Sep 07 j 14:31	8° $\mathcal{I}$ 51'20		morning rise	-12755 Mar 03 j 13:41	1° $\mathcal{J}$ 18'52	
retrograde	-12760 Jan 13 j 16:00	27° $\mathcal{I}$ 35'46		retrograde	-12755 Jul 06 j 13:40	19° $\mathcal{J}$ 59'13	
opposition	-12760 Mar 15 j 08:02	22° $\mathcal{I}$ 37'29	2°05'55	opposition	-12755 Sep 03 j 09:51	14° $\mathcal{J}$ 59'57	-2°16'59
min. Earth dist.	-12760 Mar 15 j 04:52	22° $\mathcal{I}$ 38'30	4.19847 AU	min. Earth dist.	-12755 Sep 03 j 09:44	14° $\mathcal{J}$ 59'59	4.18164 AU
direct	-12760 May 14 j 10:24	17° $\mathcal{I}$ 44'35		direct	-12755 Nov 02 j 13:34	9° $\mathcal{J}$ 55'48	
	-12760 Aug 18 j 09:45	0° $\mathcal{E}$		evening set	-12754 Mar 12 j 00:35	28° $\mathcal{J}$ 55'59	
evening set	-12760 Sep 14 j 01:38	5° $\mathcal{E}$ 58'16			-12754 Mar 16 j 18:26	0° $\mathcal{Z}$	
conjunction	-12760 Sep 26 j 20:42	8° $\mathcal{E}$ 56'02	1°03'09	conjunction	-12754 Mar 25 j 12:33	1° $\mathcal{Z}$ 58'42	-1°13'04
minimum elong	-12760 Sep 26 j 20:48	8° $\mathcal{E}$ 56'05	1°03'58	minimum elong	-12754 Mar 25 j 12:39	1° $\mathcal{Z}$ 58'45	1°13'53
max. Earth dist.	-12760 Sep 27 j 07:19	9° $\mathcal{E}$ 02'12	6.16113 AU	max. Earth dist.	-12754 Mar 25 j 05:20	1° $\mathcal{Z}$ 54'37	6.21864 AU
morning rise	-12760 Oct 09 j 19:00	11° $\mathcal{E}$ 55'37		morning rise	-12754 Apr 07 j 21:36	4° $\mathcal{Z}$ 59'51	
	-12759 Jan 18 j 22:54	0° $\mathcal{Q}$		retrograde	-12754 Aug 08 j 04:44	22° $\mathcal{Z}$ 57'00	
retrograde	-12759 Feb 17 j 04:41	1° $\mathcal{Q}$ 18'10		opposition	-12754 Oct 06 j 09:32	18° $\mathcal{Z}$ 01'28	-1°12'08
	-12759 Mar 18 j 06:01	30° $\mathcal{R}\mathcal{E}$		min. Earth dist.	-12754 Oct 06 j 18:37	17° $\mathcal{Z}$ 58'28	4.25508 AU
opposition	-12759 Apr 19 j 07:43	26° $\mathcal{E}$ 16'19	0°51'32	direct	-12754 Dec 06 j 18:10	12° $\mathcal{Z}$ 57'34	
min. Earth dist.	-12759 Apr 18 j 20:08	26° $\mathcal{E}$ 20'08	4.12759 AU		-12753 Apr 07 j 20:49	0° $\mathcal{A}$	
direct	-12759 Jun 17 j 08:31	21° $\mathcal{E}$ 22'40		evening set	-12753 Apr 14 j 23:27	1° $\mathcal{A}$ 34'23	
	-12759 Sep 02 j 13:48	0° $\mathcal{Q}$		max. Earth dist.	-12753 Apr 27 j 09:07	4° $\mathcal{A}$ 20'48	6.28680 AU
evening set	-12759 Oct 18 j 03:39	9° $\mathcal{Q}$ 56'12					
				conjunction	-12753 Apr 28 j 04:29	4° $\mathcal{A}$ 31'39	-0°19'50
conjunction	-12759 Oct 31 j 10:05	13° $\mathcal{Q}$ 01'44	0°03'55	minimum elong	-12753 Apr 28 j 04:31	4° $\mathcal{A}$ 31'41	0°20'31
minimum elong	-12759 Oct 31 j 10:05	13° $\mathcal{Q}$ 01'44	0°04'32	morning rise	-12753 May 11 j 06:08	7° $\mathcal{A}$ 27'08	
behind sun begin	-12759 Oct 31 j 02:00	12° $\mathcal{Q}$ 57'02			-12753 Jun 15 j 15:19	15° $\mathcal{A}$	
behind sun end	-12759 Oct 31 j 18:10	13° $\mathcal{Q}$ 06'25		retrograde	-12753 Sep 09 j 02:44	24° $\mathcal{A}$ 55'22	
max. Earth dist.	-12759 Nov 01 j 08:32	13° $\mathcal{Q}$ 14'50	6.10003 AU	asc. node	-12753 Sep 09 j 14:24	24° $\mathcal{A}$ 55'20	
	-12759 Nov 08 j 20:56	15° $\mathcal{Q}$		opposition	-12753 Nov 08 j 00:52	20° $\mathcal{A}$ 02'29	0°13'03
morning rise	-12759 Nov 13 j 20:10	16° $\mathcal{Q}$ 09'14		min. Earth dist.	-12753 Nov 08 j 16:03	19° $\mathcal{A}$ 57'34	4.31197 AU
desc. node	-12759 Nov 24 j 14:56	18° $\mathcal{Q}$ 37'50		direct	-12752 Jan 09 j 05:36	15° $\mathcal{A}$ 00'23	
	-12758 Jan 19 j 16:27	0° $\mathcal{M}$			-12752 May 01 j 11:28	0° $\mathcal{H}$	
retrograde	-12758 Mar 25 j 04:50	5° $\mathcal{M}$ 56'11		evening set	-12752 May 16 j 08:31	3° $\mathcal{H}$ 15'25	
opposition	-12758 May 24 j 11:49	0° $\mathcal{M}$ 51'52	-0°42'50	max. Earth dist.	-12752 May 28 j 05:14	5° $\mathcal{H}$ 54'10	6.32825 AU
min. Earth dist.	-12758 May 23 j 18:53	0° $\mathcal{M}$ 57'35	4.08151 AU				
	-12758 May 30 j 22:33	30° $\mathcal{R}\mathcal{Q}$		conjunction	-12752 May 29 j 04:32	6° $\mathcal{H}$ 07'12	0°38'26
direct	-12758 Jul 21 j 19:01	25° $\mathcal{Q}$ 55'47		minimum elong	-12752 May 29 j 04:28	6° $\mathcal{H}$ 07'10	0°38'06
	-12758 Sep 10 j 13:21	0° $\mathcal{M}$		morning rise	-12752 Jun 10 j 21:23	8° $\mathcal{H}$ 57'26	
evening set	-12758 Nov 23 j 02:44	14° $\mathcal{M}$ 52'27		retrograde	-12752 Oct 09 j 23:39	26° $\mathcal{H}$ 18'32	
				opposition	-12752 Dec 09 j 17:04	21° $\mathcal{H}$ 26'42	1°32'55
conjunction	-12758 Dec 06 j 17:18	18° $\mathcal{M}$ 02'39	-0°57'47	min. Earth dist.	-12752 Dec 10 j 10:00	21° $\mathcal{H}$ 21'19	4.33535 AU
minimum elong	-12758 Dec 06 j 17:11	18° $\mathcal{M}$ 02'35	0°57'36	direct	-12751 Feb 10 j 04:18	16° $\mathcal{H}$ 27'30	
max. Earth dist.	-12758 Dec 07 j 18:56	18° $\mathcal{M}$ 17'36	6.07281 AU		-12751 May 27 j 04:58	0° $\mathcal{Y}$	
morning rise	-12758 Dec 20 j 10:39	21° $\mathcal{M}$ 14'15		evening set	-12751 Jun 16 j 16:50	4° $\mathcal{Y}$ 28'25	
	-12757 Jan 29 j 02:06	0° $\mathcal{A}$		max. Earth dist.	-12751 Jun 28 j 05:21	7° $\mathcal{Y}$ 03'23	6.33059 AU
retrograde	-12757 Apr 29 j 23:25	11° $\mathcal{A}$ 02'07					
opposition	-12757 Jun 28 j 10:21	5° $\mathcal{A}$ 57'23	-2°02'44	conjunction	-12751 Jun 29 j 04:17	7° $\mathcal{Y}$ 16'16	1°24'56
min. Earth dist.	-12757 Jun 27 j 18:39	6° $\mathcal{A}$ 02'46	4.07666 AU	minimum elong	-12751 Jun 29 j 04:11	7° $\mathcal{Y}$ 16'13	1°25'01
direct	-12757 Aug 25 j 17:41	0° $\mathcal{A}$ 57'53		morning rise	-12751 Jul 11 j 14:10	10° $\mathcal{Y}$ 03'20	

Attention, astronomical year style is used: The year -12751 in astronomical counting style is the year 12752 BCE in historical counting style.

retrograde	-12751 Nov 11 j 10:35	27° $\Upsilon$ 39'34		min. Earth dist.	-12745 Jul 02 j 16:01	11° $\Omega$ 04'48	4.07606 AU
opposition	-12750 Jan 11 j 19:43	22° $\Upsilon$ 46'50	2°25'44	direct	-12745 Aug 30 j 14:57	5° $\Omega$ 59'46	
min. Earth dist.	-12750 Jan 12 j 09:40	22° $\Upsilon$ 42'25	4.31772 AU	evening set	-12744 Jan 04 j 12:38	25° $\Omega$ 16'00	
direct	-12750 Mar 14 j 21:42	17° $\Upsilon$ 50'39					
	-12750 Jun 21 j 05:06	0° $\mathcal{B}$		conjunction	-12744 Jan 18 j 05:54	28° $\Omega$ 26'13	-1°41'34
evening set	-12750 Jul 17 j 16:20	5° $\mathcal{B}$ 47'09		minimum elong	-12744 Jan 18 j 05:50	28° $\Omega$ 26'11	1°41'58
max. Earth dist.	-12750 Jul 29 j 10:26	8° $\mathcal{B}$ 26'49	6.29320 AU	max. Earth dist.	-12744 Jan 19 j 00:49	28° $\Omega$ 37'10	6.09226 AU
					-12744 Jan 25 j 00:05	0° $\mathcal{M}$	
conjunction	-12750 Jul 30 j 00:06	8° $\mathcal{B}$ 34'34	1°46'52	morning rise	-12744 Jan 31 j 23:44	1° $\mathcal{M}$ 36'35	
minimum elong	-12750 Jul 30 j 00:05	8° $\mathcal{B}$ 34'33	1°47'22		-12744 Apr 05 j 15:27	15° $\mathcal{M}$	
morning rise	-12750 Aug 11 j 07:47	11° $\mathcal{B}$ 22'05		retrograde	-12744 Jun 07 j 17:20	20° $\mathcal{M}$ 55'06	
	-12750 Aug 27 j 16:02	15° $\mathcal{B}$		opposition	-12744 Aug 05 j 14:17	15° $\mathcal{M}$ 52'42	-2°38'00
retrograde	-12750 Dec 14 j 20:38	29° $\mathcal{B}$ 30'41		min. Earth dist.	-12744 Aug 05 j 05:30	15° $\mathcal{M}$ 55'43	4.12055 AU
opposition	-12749 Feb 14 j 14:37	24° $\mathcal{B}$ 35'27	2°36'04		-12744 Aug 12 j 01:00	15° $\mathcal{R}$ $\mathcal{M}$	
min. Earth dist.	-12749 Feb 14 j 20:34	24° $\mathcal{B}$ 33'33	4.26382 AU	direct	-12744 Oct 03 j 17:10	10° $\mathcal{M}$ 49'51	
direct	-12749 Apr 16 j 18:18	19° $\mathcal{B}$ 41'40			-12744 Nov 25 j 06:14	15° $\mathcal{M}$	
	-12749 Jul 13 j 15:41	0° $\Pi$		evening set	-12743 Feb 09 j 11:04	0° $\mathcal{X}$ 04'19	
evening set	-12749 Aug 18 j 01:45	7° $\Pi$ 43'21			-12743 Feb 09 j 03:27	0° $\mathcal{X}$	
conjunction	-12749 Aug 30 j 12:42	10° $\Pi$ 34'45	1°36'59	conjunction	-12743 Feb 23 j 02:38	3° $\mathcal{X}$ 11'06	-1°41'12
minimum elong	-12749 Aug 30 j 12:46	10° $\Pi$ 34'47	1°37'45	minimum elong	-12743 Feb 23 j 02:41	3° $\mathcal{X}$ 11'08	1°41'56
max. Earth dist.	-12749 Aug 30 j 10:15	10° $\Pi$ 33'20	6.22680 AU	max. Earth dist.	-12743 Feb 23 j 08:40	3° $\mathcal{X}$ 14'33	6.15330 AU
morning rise	-12749 Sep 12 j 01:44	13° $\Pi$ 27'19		morning rise	-12743 Mar 08 j 16:34	6° $\mathcal{X}$ 16'56	
	-12749 Dec 10 j 05:11	0° $\mathcal{D}$		retrograde	-12743 Jul 11 j 07:30	24° $\mathcal{X}$ 51'03	
retrograde	-12748 Jan 18 j 12:06	2° $\mathcal{D}$ 16'42		opposition	-12743 Sep 08 j 03:16	19° $\mathcal{X}$ 52'15	-2°09'57
	-12748 Feb 26 j 22:36	30° $\mathcal{R}$ $\Pi$		min. Earth dist.	-12743 Sep 08 j 04:35	19° $\mathcal{X}$ 51'49	4.19190 AU
opposition	-12748 Mar 20 j 02:38	27° $\Pi$ 17'56	1°57'52	direct	-12743 Nov 07 j 11:29	14° $\mathcal{X}$ 48'00	
min. Earth dist.	-12748 Mar 19 j 23:10	27° $\Pi$ 19'04	4.18913 AU		-12742 Feb 27 j 23:30	0° $\mathcal{Z}$	
direct	-12748 May 19 j 02:24	22° $\Pi$ 25'00		evening set	-12742 Mar 16 j 22:49	3° $\mathcal{Z}$ 44'53	
	-12748 Jul 30 j 16:35	0° $\mathcal{D}$					
evening set	-12748 Sep 18 j 15:19	10° $\mathcal{D}$ 40'57		conjunction	-12742 Mar 30 j 09:59	6° $\mathcal{Z}$ 46'51	-1°06'29
				minimum elong	-12742 Mar 30 j 10:05	6° $\mathcal{Z}$ 46'54	1°07'17
conjunction	-12748 Oct 01 j 11:59	13° $\mathcal{D}$ 39'51	0°55'58	max. Earth dist.	-12742 Mar 30 j 00:50	6° $\mathcal{Z}$ 41'41	6.22962 AU
minimum elong	-12748 Oct 01 j 12:05	13° $\mathcal{D}$ 39'55	0°56'46	morning rise	-12742 Apr 12 j 18:08	9° $\mathcal{Z}$ 47'11	
max. Earth dist.	-12748 Oct 02 j 00:05	13° $\mathcal{D}$ 46'53	6.15119 AU	retrograde	-12742 Aug 12 j 17:01	27° $\mathcal{Z}$ 38'42	
morning rise	-12748 Oct 14 j 11:58	16° $\mathcal{D}$ 40'38		opposition	-12742 Oct 11 j 00:48	22° $\mathcal{Z}$ 43'31	-1°00'40
	-12748 Dec 17 j 21:45	0° $\Omega$		min. Earth dist.	-12742 Oct 11 j 10:28	22° $\mathcal{Z}$ 40'19	4.26557 AU
retrograde	-12747 Feb 22 j 03:23	6° $\Omega$ 07'54		direct	-12742 Dec 11 j 12:30	17° $\mathcal{Z}$ 39'41	
opposition	-12747 Apr 24 j 03:39	1° $\Omega$ 05'42	0°39'05		-12741 Mar 21 j 19:08	0° $\approx$	
min. Earth dist.	-12747 Apr 23 j 15:16	1° $\Omega$ 09'47	4.11784 AU	evening set	-12741 Apr 19 j 15:31	6° $\approx$ 12'39	
	-12747 May 02 j 12:10	30° $\mathcal{R}$ $\mathcal{D}$					
direct	-12747 Jun 22 j 00:34	26° $\mathcal{D}$ 11'50		conjunction	-12741 May 02 j 19:20	9° $\approx$ 09'03	-0°11'30
	-12747 Aug 10 j 04:39	0° $\Omega$		minimum elong	-12741 May 02 j 19:22	9° $\approx$ 09'03	0°12'08
desc. node	-12747 Oct 05 j 01:49	10° $\Omega$ 43'20		behind sun begin	-12741 May 02 j 13:54	9° $\approx$ 06'01	
evening set	-12747 Oct 23 j 00:05	14° $\Omega$ 49'17		behind sun end	-12741 May 03 j 00:50	9° $\approx$ 12'06	
	-12747 Oct 23 j 18:33	15° $\Omega$		max. Earth dist.	-12741 May 01 j 23:30	8° $\approx$ 57'56	6.29599 AU
				morning rise	-12741 May 15 j 19:43	12° $\approx$ 03'38	
conjunction	-12747 Nov 05 j 07:54	17° $\Omega$ 55'49	-0°05'04		-12741 May 29 j 04:19	15° $\approx$	
minimum elong	-12747 Nov 05 j 07:53	17° $\Omega$ 55'49	0°04'30	asc. node	-12741 Jul 19 j 14:17	24° $\approx$ 49'55	
behind sun begin	-12747 Nov 04 j 23:47	17° $\Omega$ 51'06		retrograde	-12741 Sep 13 j 14:42	29° $\approx$ 28'52	
behind sun end	-12747 Nov 05 j 15:59	18° $\Omega$ 00'31		opposition	-12741 Nov 12 j 15:10	24° $\approx$ 36'14	0°25'11
max. Earth dist.	-12747 Nov 06 j 06:01	18° $\Omega$ 08'44	6.09141 AU	min. Earth dist.	-12741 Nov 13 j 07:15	24° $\approx$ 31'02	4.31889 AU
morning rise	-12747 Nov 18 j 19:27	21° $\Omega$ 04'20		direct	-12740 Jan 13 j 22:26	19° $\approx$ 34'28	
	-12747 Dec 29 j 05:56	0° $\mathcal{M}$			-12740 Apr 14 j 02:11	0° $\mathcal{H}$	
retrograde	-12746 Mar 30 j 04:44	10° $\mathcal{M}$ 54'17		evening set	-12740 May 20 j 19:39	7° $\mathcal{H}$ 46'27	
opposition	-12746 May 29 j 08:38	5° $\mathcal{M}$ 49'45	-0°55'31				
min. Earth dist.	-12746 May 28 j 15:43	5° $\mathcal{M}$ 55'29	4.07482 AU	conjunction	-12740 Jun 02 j 14:17	10° $\mathcal{H}$ 37'30	0°46'01
direct	-12746 Jul 26 j 14:37	0° $\mathcal{M}$ 53'12		minimum elong	-12740 Jun 02 j 14:13	10° $\mathcal{H}$ 37'28	0°45'45
evening set	-12746 Nov 28 j 05:42	19° $\mathcal{M}$ 54'14		max. Earth dist.	-12740 Jun 01 j 13:34	10° $\mathcal{H}$ 23'41	6.33205 AU
				morning rise	-12740 Jun 15 j 06:06	13° $\mathcal{H}$ 27'07	
conjunction	-12746 Dec 11 j 21:12	23° $\mathcal{M}$ 04'58	-1°05'08		-12740 Sep 21 j 15:24	0° $\Upsilon$	
minimum elong	-12746 Dec 11 j 21:05	23° $\mathcal{M}$ 04'54	1°05'01	retrograde	-12740 Oct 14 j 11:49	0° $\Upsilon$ 48'44	
max. Earth dist.	-12746 Dec 13 j 00:02	23° $\mathcal{M}$ 20'37	6.06880 AU		-12740 Nov 06 j 10:05	30° $\mathcal{R}$ $\mathcal{H}$	
morning rise	-12746 Dec 25 j 14:57	26° $\mathcal{M}$ 16'54		opposition	-12740 Dec 14 j 07:59	25° $\mathcal{H}$ 56'49	1°42'24
	-12745 Jan 10 j 21:37	0° $\Omega$		min. Earth dist.	-12740 Dec 15 j 00:53	25° $\mathcal{H}$ 51'26	4.33595 AU
retrograde	-12745 May 04 j 23:29	16° $\Omega$ 04'13		direct	-12739 Feb 14 j 18:40	20° $\mathcal{H}$ 57'58	
opposition	-12745 Jul 03 j 06:58	10° $\Omega$ 59'40	-2°10'46		-12739 May 09 j 09:24	0° $\Upsilon$	

Attention, astronomical year style is used: The year -12739 in astronomical counting style is the year 12740 BCE in historical counting style.

evening set	-12739 Jun 21 j 01:25	8° $\Upsilon$ 57'32		conjunction	-12734 Dec 17 j 04:04	28° $\mathbb{M}$ 13'34	-1°12'09
				minimum elong	-12734 Dec 17 j 03:57	28° $\mathbb{M}$ 13'29	1°12'06
conjunction	-12739 Jul 03 j 12:06	11° $\Upsilon$ 45'06	1°29'43	max. Earth dist.	-12734 Dec 18 j 06:06	28° $\mathbb{M}$ 28'44	6.07196 AU
minimum elong	-12739 Jul 03 j 12:01	11° $\Upsilon$ 45'03	1°29'53		-12734 Dec 24 j 18:55	0° $\mathbb{A}$	
max. Earth dist.	-12739 Jul 02 j 15:02	11° $\Upsilon$ 33'14	6.32776 AU	morning rise	-12734 Dec 30 j 22:16	1° $\mathbb{A}$ 25'26	
morning rise	-12739 Jul 15 j 21:08	14° $\Upsilon$ 31'55		retrograde	-12733 May 09 j 21:47	21° $\mathbb{A}$ 08'55	
	-12739 Oct 08 j 14:59	0° $\mathbb{B}$		opposition	-12733 Jul 08 j 04:38	16° $\mathbb{A}$ 04'32	-2°17'49
retrograde	-12739 Nov 16 j 01:19	2° $\mathbb{B}$ 11'47		min. Earth dist.	-12733 Jul 07 j 13:11	16° $\mathbb{A}$ 09'50	4.08398 AU
	-12739 Dec 24 j 23:11	30° $\mathbb{K}$ $\Upsilon$		direct	-12733 Sep 04 j 14:35	11° $\mathbb{A}$ 04'12	
opposition	-12738 Jan 16 j 12:30	27° $\Upsilon$ 18'48	2°30'00		-12732 Jan 08 j 08:22	0° $\mathbb{M}$	
min. Earth dist.	-12738 Jan 17 j 01:46	27° $\Upsilon$ 14'37	4.31179 AU	evening set	-12732 Jan 09 j 18:23	0° $\mathbb{M}$ 19'29	
direct	-12738 Mar 19 j 12:28	22° $\Upsilon$ 23'02					
	-12738 Jun 02 j 13:20	0° $\mathbb{B}$		conjunction	-12732 Jan 23 j 11:33	3° $\mathbb{M}$ 29'04	-1°43'47
evening set	-12738 Jul 22 j 01:28	10° $\mathbb{B}$ 19'55		minimum elong	-12732 Jan 23 j 11:30	3° $\mathbb{M}$ 29'02	1°44'13
				max. Earth dist.	-12732 Jan 24 j 06:15	3° $\mathbb{M}$ 39'52	6.10417 AU
conjunction	-12738 Aug 03 j 09:05	13° $\mathbb{B}$ 07'37	1°47'28	morning rise	-12732 Feb 06 j 04:45	6° $\mathbb{M}$ 38'35	
minimum elong	-12738 Aug 03 j 09:04	13° $\mathbb{B}$ 07'37	1°48'01		-12732 Mar 15 j 07:08	15° $\mathbb{M}$	
max. Earth dist.	-12738 Aug 02 j 19:15	12° $\mathbb{B}$ 59'45	6.28441 AU	retrograde	-12732 Jun 12 j 12:10	25° $\mathbb{M}$ 49'26	
	-12738 Aug 11 j 14:53	15° $\mathbb{B}$		opposition	-12732 Aug 10 j 07:45	20° $\mathbb{M}$ 47'30	-2°37'06
morning rise	-12738 Aug 15 j 17:12	15° $\mathbb{B}$ 55'38		min. Earth dist.	-12732 Aug 10 j 00:51	20° $\mathbb{M}$ 49'52	4.13520 AU
	-12738 Oct 26 j 14:55	0° $\mathbb{I}$		direct	-12732 Oct 08 j 15:42	15° $\mathbb{M}$ 44'23	
retrograde	-12738 Dec 19 j 16:10	4° $\mathbb{I}$ 10'03			-12731 Jan 23 j 07:39	0° $\mathbb{A}$	
	-12737 Feb 13 j 10:11	30° $\mathbb{K}$ $\mathbb{B}$		evening set	-12731 Feb 14 j 11:08	4° $\mathbb{A}$ 54'50	
opposition	-12737 Feb 19 j 10:08	29° $\mathbb{B}$ 14'20	2°33'37				
min. Earth dist.	-12737 Feb 19 j 15:02	29° $\mathbb{B}$ 12'46	4.25275 AU	conjunction	-12731 Feb 28 j 02:09	8° $\mathbb{A}$ 00'42	-1°38'09
direct	-12737 Apr 21 j 10:11	24° $\mathbb{B}$ 20'44		minimum elong	-12731 Feb 28 j 02:13	8° $\mathbb{A}$ 00'44	1°38'55
	-12737 Jun 23 j 01:37	0° $\mathbb{I}$		max. Earth dist.	-12731 Feb 28 j 06:00	8° $\mathbb{A}$ 02'53	6.16930 AU
evening set	-12737 Aug 22 j 13:53	12° $\mathbb{I}$ 24'29		morning rise	-12731 Mar 13 j 15:17	11° $\mathbb{A}$ 05'30	
				retrograde	-12731 Jul 15 j 17:34	29° $\mathbb{A}$ 31'13	
conjunction	-12737 Sep 04 j 02:04	15° $\mathbb{I}$ 16'54	1°32'56	opposition	-12731 Sep 12 j 16:02	24° $\mathbb{A}$ 32'56	-2°02'16
minimum elong	-12737 Sep 04 j 02:09	15° $\mathbb{I}$ 16'57	1°33'44	min. Earth dist.	-12731 Sep 12 j 18:14	24° $\mathbb{A}$ 32'12	4.20770 AU
max. Earth dist.	-12737 Sep 04 j 02:22	15° $\mathbb{I}$ 17'04	6.21453 AU	direct	-12731 Nov 12 j 04:06	19° $\mathbb{A}$ 28'36	
morning rise	-12737 Sep 16 j 16:19	18° $\mathbb{I}$ 10'34			-12730 Feb 10 j 12:17	0° $\mathbb{B}$	
	-12737 Nov 12 j 06:49	0° $\mathbb{B}$		evening set	-12730 Mar 21 j 15:15	8° $\mathbb{B}$ 20'36	
retrograde	-12736 Jan 23 j 12:07	7° $\mathbb{B}$ 06'24					
opposition	-12736 Mar 25 j 01:05	2° $\mathbb{B}$ 07'12	1°48'48	conjunction	-12730 Apr 04 j 01:26	11° $\mathbb{B}$ 21'36	-0°59'46
min. Earth dist.	-12736 Mar 24 j 20:17	2° $\mathbb{B}$ 08'46	4.17658 AU	minimum elong	-12730 Apr 04 j 01:32	11° $\mathbb{B}$ 21'39	1°00'35
	-12736 Apr 10 j 23:33	30° $\mathbb{K}$ $\mathbb{I}$		max. Earth dist.	-12730 Apr 03 j 13:25	11° $\mathbb{B}$ 14'49	6.24405 AU
direct	-12736 May 23 j 20:21	27° $\mathbb{I}$ 14'20		morning rise	-12730 Apr 17 j 08:37	14° $\mathbb{B}$ 20'57	
	-12736 Jul 04 j 20:23	0° $\mathbb{B}$			-12730 Jul 11 j 12:42	0° $\mathbb{A}$	
evening set	-12736 Sep 23 j 09:33	15° $\mathbb{B}$ 33'38		retrograde	-12730 Aug 17 j 01:45	2° $\mathbb{A}$ 06'31	
					-12730 Sep 22 j 17:27	30° $\mathbb{K}$ $\mathbb{B}$	
conjunction	-12736 Oct 06 j 07:43	18° $\mathbb{B}$ 33'45	0°48'09	opposition	-12730 Oct 15 j 10:50	27° $\mathbb{B}$ 11'49	-0°49'25
minimum elong	-12736 Oct 06 j 07:48	18° $\mathbb{B}$ 33'48	0°48'55	min. Earth dist.	-12730 Oct 15 j 22:57	27° $\mathbb{B}$ 07'50	4.27719 AU
max. Earth dist.	-12736 Oct 06 j 20:42	18° $\mathbb{B}$ 41'19	6.13962 AU	direct	-12730 Dec 16 j 03:02	22° $\mathbb{B}$ 08'11	
morning rise	-12736 Oct 19 j 09:33	21° $\mathbb{B}$ 35'51			-12729 Mar 03 j 08:57	0° $\mathbb{A}$	
	-12736 Nov 26 j 12:01	0° $\mathbb{A}$		evening set	-12729 Apr 24 j 01:15	10° $\mathbb{A}$ 37'14	
retrograde	-12735 Feb 27 j 06:09	11° $\mathbb{A}$ 08'17		max. Earth dist.	-12729 May 06 j 06:10	13° $\mathbb{A}$ 20'40	6.30380 AU
opposition	-12735 Apr 29 j 03:55	6° $\mathbb{A}$ 05'41	0°25'51				
min. Earth dist.	-12735 Apr 28 j 14:04	6° $\mathbb{A}$ 10'17	4.10837 AU	conjunction	-12729 May 07 j 04:00	13° $\mathbb{A}$ 32'52	-0°03'33
direct	-12735 Jun 26 j 21:41	1° $\mathbb{A}$ 11'36		minimum elong	-12729 May 07 j 03:59	13° $\mathbb{A}$ 32'51	0°04'08
desc. node	-12735 Aug 14 j 08:42	4° $\mathbb{A}$ 54'18		behind sun begin	-12729 May 06 j 20:01	13° $\mathbb{A}$ 28'25	
	-12735 Oct 06 j 15:16	15° $\mathbb{A}$		behind sun end	-12729 May 07 j 11:57	13° $\mathbb{A}$ 37'18	
evening set	-12735 Oct 28 j 01:29	19° $\mathbb{A}$ 52'56			-12729 May 13 j 15:46	15° $\mathbb{A}$	
				morning rise	-12729 May 20 j 03:11	16° $\mathbb{A}$ 26'41	
conjunction	-12735 Nov 10 j 10:49	23° $\mathbb{A}$ 00'23	-0°14'11	asc. node	-12729 May 30 j 18:07	18° $\mathbb{A}$ 47'13	
minimum elong	-12735 Nov 10 j 10:47	23° $\mathbb{A}$ 00'22	0°13'41		-12729 Jul 29 j 07:38	0° $\mathbb{K}$	
behind sun begin	-12735 Nov 10 j 06:24	22° $\mathbb{A}$ 57'49		retrograde	-12729 Sep 17 j 20:30	3° $\mathbb{K}$ 50'09	
behind sun end	-12735 Nov 10 j 15:10	23° $\mathbb{A}$ 02'55			-12729 Nov 08 j 21:44	30° $\mathbb{K}$ $\mathbb{A}$	
max. Earth dist.	-12735 Nov 11 j 12:00	23° $\mathbb{A}$ 15'06	6.08536 AU	opposition	-12729 Nov 17 j 00:32	28° $\mathbb{A}$ 57'43	0°36'34
morning rise	-12735 Nov 23 j 23:31	26° $\mathbb{A}$ 09'42		min. Earth dist.	-12729 Nov 17 j 17:09	28° $\mathbb{A}$ 52'21	4.32248 AU
	-12735 Dec 10 j 18:29	0° $\mathbb{M}$		direct	-12728 Jan 18 j 08:22	23° $\mathbb{A}$ 56'16	
retrograde	-12734 Apr 04 j 08:38	16° $\mathbb{M}$ 00'56			-12728 Mar 25 j 11:33	0° $\mathbb{K}$	
opposition	-12734 Jun 03 j 08:51	10° $\mathbb{M}$ 56'21	-1°08'11	evening set	-12728 May 25 j 01:58	12° $\mathbb{K}$ 06'45	
min. Earth dist.	-12734 Jun 02 j 15:45	11° $\mathbb{M}$ 02'09	4.07333 AU				
direct	-12734 Jul 31 j 13:56	5° $\mathbb{M}$ 59'29		conjunction	-12728 Jun 06 j 19:26	14° $\mathbb{K}$ 57'19	0°53'00
evening set	-12734 Dec 03 j 12:14	25° $\mathbb{M}$ 02'48		minimum elong	-12728 Jun 06 j 19:21	14° $\mathbb{K}$ 57'16	0°52'46

Attention, astronomical year style is used: The year -12728 in astronomical counting style is the year 12729 BCE in historical counting style.

max. Earth dist.	-12728 Jun 05 j 18:17	14° $\text{H}$ 43'14	6.33110 AU			-12723 Nov 23 j 15:51	0° $\text{H}$	
morning rise	-12728 Jun 19 j 10:08	17° $\text{H}$ 46'30		morning rise		-12723 Nov 29 j 04:51	1° $\text{H}$ 17'18	
	-12728 Aug 19 j 21:14	0° $\text{Y}$		retrograde		-12722 Apr 09 j 09:54	21° $\text{H}$ 08'18	
retrograde	-12728 Oct 18 j 21:42	5° $\text{Y}$ 10'35		opposition		-12722 Jun 08 j 08:54	16° $\text{H}$ 03'30	-1°20'24
opposition	-12728 Dec 18 j 19:19	0° $\text{Y}$ 18'42	1°50'55	min. Earth dist.		-12722 Jun 07 j 14:37	16° $\text{H}$ 09'43	4.07397 AU
min. Earth dist.	-12728 Dec 19 j 13:09	0° $\text{Y}$ 13'03	4.33065 AU	direct		-12722 Aug 05 j 13:30	11° $\text{H}$ 06'05	
	-12728 Dec 21 j 06:17	30° $\text{R}$ $\text{H}$				-12722 Dec 07 j 23:53	0° $\text{A}$	
direct	-12727 Feb 19 j 06:02	25° $\text{H}$ 20'17		evening set		-12722 Dec 08 j 18:50	0° $\text{A}$ 10'57	
	-12727 Apr 18 j 03:29	0° $\text{Y}$						
evening set	-12727 Jun 25 j 07:19	13° $\text{Y}$ 20'41		conjunction		-12722 Dec 22 j 11:11	3° $\text{A}$ 21'38	-1°18'40
				minimum elong		-12722 Dec 22 j 11:04	3° $\text{A}$ 21'34	1°18'43
conjunction	-12727 Jul 07 j 17:16	16° $\text{Y}$ 08'17	1°33'48	max. Earth dist.		-12722 Dec 23 j 13:35	3° $\text{A}$ 37'00	6.07630 AU
minimum elong	-12727 Jul 07 j 17:11	16° $\text{Y}$ 08'14	1°34'02	morning rise		-12721 Jan 05 j 05:21	6° $\text{A}$ 33'14	
max. Earth dist.	-12727 Jul 06 j 19:13	15° $\text{Y}$ 55'51	6.31830 AU	retrograde		-12721 May 14 j 21:50	26° $\text{A}$ 12'25	
morning rise	-12727 Jul 20 j 02:01	18° $\text{Y}$ 55'18		opposition		-12721 Jul 13 j 01:50	21° $\text{A}$ 08'15	-2°23'56
	-12727 Sep 12 j 02:22	0° $\text{B}$		min. Earth dist.		-12721 Jul 12 j 12:09	21° $\text{A}$ 12'56	4.09152 AU
retrograde	-12727 Nov 20 j 15:23	6° $\text{B}$ 41'09		direct		-12721 Sep 09 j 15:19	16° $\text{A}$ 07'26	
opposition	-12726 Jan 21 j 03:49	1° $\text{B}$ 47'52	2°33'16			-12721 Dec 22 j 01:08	0° $\text{M}$	
min. Earth dist.	-12726 Jan 21 j 15:54	1° $\text{B}$ 44'03	4.29908 AU	evening set		-12720 Jan 15 j 00:13	5° $\text{M}$ 22'05	
	-12726 Feb 04 j 17:05	30° $\text{R}$ $\text{Y}$						
direct	-12726 Mar 23 j 23:56	26° $\text{Y}$ 52'25		conjunction		-12720 Jan 28 j 17:11	8° $\text{M}$ 31'09	-1°45'18
	-12726 May 09 j 06:53	0° $\text{B}$		minimum elong		-12720 Jan 28 j 17:09	8° $\text{M}$ 31'07	1°45'48
evening set	-12726 Jul 26 j 09:43	14° $\text{B}$ 51'58		max. Earth dist.		-12720 Jan 29 j 10:02	8° $\text{M}$ 40'50	6.11397 AU
	-12726 Jul 26 j 23:55	15° $\text{B}$		morning rise		-12720 Feb 11 j 09:56	11° $\text{M}$ 39'59	
						-12720 Feb 26 j 04:04	15° $\text{M}$	
conjunction	-12726 Aug 07 j 17:47	17° $\text{B}$ 40'23	1°47'20			-12720 May 27 j 04:41	0° $\text{A}$	
minimum elong	-12726 Aug 07 j 17:47	17° $\text{B}$ 40'23	1°47'55	retrograde		-12720 Jun 17 j 04:58	0° $\text{A}$ 44'02	
max. Earth dist.	-12726 Aug 07 j 06:58	17° $\text{B}$ 34'13	6.26951 AU			-12720 Jul 08 j 01:44	30° $\text{R}$ $\text{M}$	
morning rise	-12726 Aug 20 j 02:17	20° $\text{B}$ 29'13		opposition		-12720 Aug 15 j 01:22	25° $\text{M}$ 42'35	-2°35'14
	-12726 Oct 03 j 19:32	0° $\text{II}$		min. Earth dist.		-12720 Aug 14 j 19:01	25° $\text{M}$ 44'45	4.14647 AU
retrograde	-12726 Dec 24 j 13:15	8° $\text{II}$ 51'23		direct		-12720 Oct 13 j 12:12	20° $\text{M}$ 39'11	
opposition	-12725 Feb 24 j 06:15	3° $\text{II}$ 55'16	2°30'06			-12719 Jan 04 j 14:09	0° $\text{A}$	
min. Earth dist.	-12725 Feb 24 j 09:56	3° $\text{II}$ 54'05	4.23678 AU	evening set		-12719 Feb 19 j 12:08	9° $\text{A}$ 47'06	
	-12725 Apr 01 j 01:37	30° $\text{R}$ $\text{B}$						
direct	-12725 Apr 26 j 02:10	29° $\text{B}$ 01'54		conjunction		-12719 Mar 05 j 02:31	12° $\text{A}$ 52'15	-1°34'29
	-12725 May 20 j 22:15	0° $\text{II}$		minimum elong		-12719 Mar 05 j 02:36	12° $\text{A}$ 52'18	1°35'15
evening set	-12725 Aug 27 j 03:29	17° $\text{II}$ 09'11		max. Earth dist.		-12719 Mar 05 j 02:59	12° $\text{A}$ 52'31	6.18112 AU
				morning rise		-12719 Mar 18 j 15:01	15° $\text{A}$ 56'17	
conjunction	-12725 Sep 08 j 16:45	20° $\text{II}$ 02'47	1°28'09			-12719 May 28 j 15:05	0° $\text{B}$	
minimum elong	-12725 Sep 08 j 16:50	20° $\text{II}$ 02'50	1°28'57	retrograde		-12719 Jul 20 j 08:30	4° $\text{B}$ 15'25	
max. Earth dist.	-12725 Sep 08 j 18:19	20° $\text{II}$ 03'41	6.19889 AU			-12719 Sep 12 j 00:38	30° $\text{R}$ $\text{A}$	
morning rise	-12725 Sep 21 j 08:38	22° $\text{II}$ 57'48		opposition		-12719 Sep 17 j 07:11	29° $\text{A}$ 17'42	-1°53'49
	-12725 Oct 23 j 04:31	0° $\text{B}$		min. Earth dist.		-12719 Sep 17 j 11:54	29° $\text{A}$ 16'07	4.21887 AU
retrograde	-12724 Jan 28 j 13:30	12° $\text{B}$ 00'52		direct		-12719 Nov 17 j 00:18	24° $\text{A}$ 13'21	
opposition	-12724 Mar 30 j 00:46	7° $\text{B}$ 01'03	1°38'46			-12718 Jan 20 j 07:56	0° $\text{B}$	
min. Earth dist.	-12724 Mar 29 j 17:24	7° $\text{B}$ 03'27	4.16242 AU	evening set		-12718 Mar 26 j 09:56	13° $\text{B}$ 02'00	
direct	-12724 May 28 j 15:10	2° $\text{B}$ 08'06						
evening set	-12724 Sep 28 j 05:50	20° $\text{B}$ 31'05		conjunction		-12718 Apr 08 j 19:24	16° $\text{B}$ 02'18	-0°52'34
				minimum elong		-12718 Apr 08 j 19:29	16° $\text{B}$ 02'21	0°53'21
conjunction	-12724 Oct 11 j 05:52	23° $\text{B}$ 32'30	0°39'49	max. Earth dist.		-12718 Apr 08 j 06:16	15° $\text{B}$ 54'55	6.25386 AU
minimum elong	-12724 Oct 11 j 05:56	23° $\text{B}$ 32'32	0°40'35	morning rise		-12718 Apr 22 j 01:29	19° $\text{B}$ 00'52	
max. Earth dist.	-12724 Oct 11 j 23:01	23° $\text{B}$ 42'29	6.12836 AU			-12718 Jun 14 j 11:31	0° $\text{B}$	
morning rise	-12724 Oct 24 j 09:18	26° $\text{B}$ 35'51		retrograde		-12718 Aug 21 j 11:51	6° $\text{B}$ 42'13	
	-12724 Nov 08 j 07:01	0° $\text{B}$		opposition		-12718 Oct 20 j 00:25	1° $\text{B}$ 47'56	-0°37'34
	-12723 Feb 04 j 10:55	15° $\text{B}$		min. Earth dist.		-12718 Oct 20 j 12:46	1° $\text{B}$ 43'53	4.28492 AU
retrograde	-12723 Mar 04 j 10:58	16° $\text{B}$ 12'28				-12718 Nov 03 j 01:18	30° $\text{R}$ $\text{B}$	
	-12723 Apr 01 j 04:16	15° $\text{R}$ $\text{B}$		direct		-12718 Dec 20 j 18:37	26° $\text{B}$ 44'33	
opposition	-12723 May 04 j 05:15	11° $\text{B}$ 09'24	0°12'12			-12717 Feb 06 j 13:58	0° $\text{B}$	
min. Earth dist.	-12723 May 03 j 14:36	11° $\text{B}$ 14'17	4.10084 AU	asc. node		-12717 Apr 09 j 01:35	10° $\text{B}$ 55'21	
desc. node	-12723 Jun 23 j 14:17	6° $\text{B}$ 21'56				-12717 Apr 27 j 19:16	15° $\text{B}$	
direct	-12723 Jul 01 j 20:27	6° $\text{B}$ 14'59		evening set		-12717 Apr 28 j 15:03	15° $\text{B}$ 10'58	
	-12723 Sep 17 j 11:56	15° $\text{B}$						
evening set	-12723 Nov 02 j 04:24	24° $\text{B}$ 59'14		conjunction		-12717 May 11 j 16:25	18° $\text{B}$ 05'51	0°04'54
				minimum elong		-12717 May 11 j 16:25	18° $\text{B}$ 05'51	0°04'21
conjunction	-12723 Nov 15 j 14:49	28° $\text{B}$ 07'20	-0°23'18	behind sun begin		-12717 May 11 j 08:29	18° $\text{B}$ 01'26	
minimum elong	-12723 Nov 15 j 14:47	28° $\text{B}$ 07'18	0°22'53	behind sun end		-12717 May 12 j 00:21	18° $\text{B}$ 10'15	
max. Earth dist.	-12723 Nov 16 j 16:08	28° $\text{B}$ 22'07	6.08181 AU	max. Earth dist.		-12717 May 10 j 16:49	17° $\text{B}$ 52'39	6.30899 AU



Attention, astronomical year style is used: The year -12717 in astronomical counting style is the year 12718 BCE in historical counting style.

morning rise	-12717 May 24 j 14:33	20°≈59'01			-12711 May 17 j 10:16	15°℞♂	
	-12717 Jul 06 j 16:00	0°℞	direct		-12711 Jul 06 j 15:30	11°♂11'07	
retrograde	-12717 Sep 22 j 09:11	8°℞21'35			-12711 Aug 24 j 18:27	15°♂	
opposition	-12717 Nov 21 j 14:41	3°℞29'24	0°48'15	evening set	-12711 Nov 07 j 04:12	29°♂57'23	
min. Earth dist.	-12717 Nov 22 j 08:42	3°℞23'37	4.32484 AU		-12711 Nov 07 j 08:43	0°♂	
	-12717 Dec 21 j 18:50	30°℞≈					
direct	-12716 Jan 23 j 00:48	28°≈28'22		conjunction	-12711 Nov 20 j 15:49	3°♂06'00	-0°32'00
	-12716 Feb 24 j 07:58	0°℞		minimum elong	-12711 Nov 20 j 15:45	3°♂05'58	0°31'36
evening set	-12716 May 29 j 12:22	16°℞37'28		max. Earth dist.	-12711 Nov 21 j 18:24	3°♂21'31	6.08090 AU
max. Earth dist.	-12716 Jun 10 j 03:36	19°℞13'28	6.33032 AU	morning rise	-12711 Dec 04 j 06:37	6°♂16'19	
				retrograde	-12710 Apr 14 j 09:39	26°♂06'29	
conjunction	-12716 Jun 11 j 04:43	19°℞27'33	1°00'00	opposition	-12710 Jun 13 j 04:56	21°♂01'37	-1°31'37
minimum elong	-12716 Jun 11 j 04:38	19°℞27'30	0°59'51	min. Earth dist.	-12710 Jun 12 j 12:02	21°♂07'23	4.07544 AU
morning rise	-12716 Jun 23 j 18:23	22°℞16'20		direct	-12710 Aug 10 j 10:56	16°♂03'43	
	-12716 Jul 30 j 02:39	0°♂			-12710 Nov 21 j 01:45	0°♂	
retrograde	-12716 Oct 23 j 10:39	9°♂42'53		evening set	-12710 Dec 13 j 21:49	5°♂10'13	
opposition	-12716 Dec 23 j 11:24	4°♂50'56	1°59'14				
min. Earth dist.	-12716 Dec 24 j 03:49	4°♂45'44	4.32725 AU	conjunction	-12710 Dec 27 j 14:29	8°♂20'51	-1°24'24
	-12715 Feb 15 j 01:33	30°℞℞		minimum elong	-12710 Dec 27 j 14:22	8°♂20'47	1°24'31
direct	-12715 Feb 23 j 19:45	29°℞53'01		max. Earth dist.	-12710 Dec 28 j 15:32	8°♂35'24	6.07976 AU
	-12715 Mar 04 j 14:14	0°♂		morning rise	-12709 Jan 10 j 08:47	11°♂32'16	
evening set	-12715 Jun 29 j 16:49	17°♂53'18			-12709 Apr 23 j 09:03	0°♂	
max. Earth dist.	-12715 Jul 11 j 06:11	20°♂29'32	6.31255 AU	retrograde	-12709 May 19 j 16:43	1°♂07'43	
					-12709 Jun 14 j 17:19	30°℞♂	
conjunction	-12715 Jul 12 j 02:07	20°♂40'48	1°37'34	opposition	-12709 Jul 17 j 19:26	26°♂03'49	-2°28'50
minimum elong	-12715 Jul 12 j 02:02	20°♂40'45	1°37'50	min. Earth dist.	-12709 Jul 17 j 06:06	26°♂08'24	4.09687 AU
morning rise	-12715 Jul 24 j 10:21	23°♂27'50		direct	-12709 Sep 14 j 09:52	21°♂02'35	
	-12715 Aug 23 j 13:53	0°♂			-12709 Dec 03 j 05:59	0°♂	
retrograde	-12715 Nov 25 j 09:52	11°♂18'26		evening set	-12708 Jan 20 j 02:38	10°♂17'36	
opposition	-12714 Jan 25 j 22:46	6°♂24'55	2°35'45				
min. Earth dist.	-12714 Jan 26 j 10:17	6°♂21'17	4.29164 AU	conjunction	-12708 Feb 02 j 19:21	13°♂26'16	-1°46'01
direct	-12714 Mar 28 j 16:48	1°♂29'55		minimum elong	-12708 Feb 02 j 19:19	13°♂26'15	1°46'34
	-12714 Jul 10 j 14:17	15°♂		max. Earth dist.	-12708 Feb 03 j 08:44	13°♂33'57	6.12055 AU
evening set	-12714 Jul 30 j 20:33	19°♂30'06			-12708 Feb 09 j 14:27	15°♂	
				morning rise	-12708 Feb 16 j 11:45	16°♂34'36	
conjunction	-12714 Aug 12 j 04:49	22°♂18'58	1°46'36		-12708 Apr 21 j 23:30	0°♂	
minimum elong	-12714 Aug 12 j 04:50	22°♂18'59	1°47'15	retrograde	-12708 Jun 21 j 21:26	5°♂33'30	
max. Earth dist.	-12714 Aug 11 j 19:02	22°♂13'23	6.26104 AU	opposition	-12708 Aug 19 j 17:01	0°♂32'30	-2°32'23
morning rise	-12714 Aug 24 j 14:04	25°♂08'26		min. Earth dist.	-12708 Aug 19 j 13:07	0°♂33'50	4.15358 AU
	-12714 Sep 15 j 11:07	0°♂			-12708 Aug 23 j 16:33	30°℞♂	
retrograde	-12714 Dec 29 j 09:48	13°♂36'01		direct	-12708 Oct 18 j 08:18	25°♂28'51	
opposition	-12713 Mar 01 j 03:22	8°♂39'23	2°25'37		-12708 Dec 12 j 16:13	0°♂	
min. Earth dist.	-12713 Mar 01 j 04:24	8°♂39'03	4.22803 AU	evening set	-12707 Feb 24 j 10:54	14°♂35'38	
direct	-12713 Apr 30 j 18:16	3°♂46'13					
evening set	-12713 Aug 31 j 17:20	21°♂54'39		conjunction	-12707 Mar 10 j 01:01	17°♂40'22	-1°30'12
				minimum elong	-12707 Mar 10 j 01:06	17°♂40'24	1°30'59
conjunction	-12713 Sep 13 j 08:00	24°♂49'10	1°22'53	max. Earth dist.	-12707 Mar 10 j 00:23	17°♂40'00	6.18840 AU
minimum elong	-12713 Sep 13 j 08:05	24°♂49'13	1°23'41	morning rise	-12707 Mar 23 j 12:41	20°♂43'48	
max. Earth dist.	-12713 Sep 13 j 13:24	24°♂52'18	6.19076 AU		-12707 May 06 j 00:01	0°♂	
morning rise	-12713 Sep 26 j 01:09	27°♂45'09		retrograde	-12707 Jul 24 j 20:55	8°♂58'04	
	-12713 Oct 05 j 22:04	0°♂		opposition	-12707 Sep 21 j 21:25	4°♂00'53	-1°44'42
retrograde	-12712 Feb 02 j 14:25	16°♂52'42		min. Earth dist.	-12707 Sep 22 j 02:37	3°♂59'08	4.22565 AU
opposition	-12712 Apr 03 j 23:16	11°♂52'24	1°28'10		-12707 Oct 26 j 19:42	30°℞♂	
min. Earth dist.	-12712 Apr 03 j 15:15	11°♂55'01	4.15536 AU	direct	-12707 Nov 21 j 17:16	28°♂56'35	
direct	-12712 Jun 02 j 10:44	6°♂59'22			-12707 Dec 17 j 23:40	0°♂	
evening set	-12712 Oct 03 j 00:31	25°♂23'56		evening set	-12706 Mar 31 j 04:16	17°♂43'20	
conjunction	-12712 Oct 16 j 01:55	28°♂26'13	0°31'25	conjunction	-12706 Apr 13 j 12:43	20°♂43'02	-0°45'01
minimum elong	-12712 Oct 16 j 01:59	28°♂26'15	0°32'09	minimum elong	-12706 Apr 13 j 12:47	20°♂43'05	0°45'46
max. Earth dist.	-12712 Oct 16 j 19:36	28°♂36'31	6.12301 AU	max. Earth dist.	-12706 Apr 12 j 20:37	20°♂34'00	6.25984 AU
	-12712 Oct 22 j 18:58	0°♂		morning rise	-12706 Apr 26 j 18:01	23°♂41'02	
morning rise	-12712 Oct 29 j 07:08	1°♂30'33			-12706 May 25 j 22:34	0°♂	
	-12711 Jan 02 j 07:33	15°♂		retrograde	-12706 Aug 26 j 01:14	11°♂≈19'30	
retrograde	-12711 Mar 09 j 09:36	21°♂09'21		opposition	-12706 Oct 24 j 14:55	6°♂≈25'35	-0°25'26
desc. node	-12711 May 04 j 09:47	16°♂43'37		min. Earth dist.	-12706 Oct 25 j 04:52	6°♂≈21'01	4.28958 AU
min. Earth dist.	-12711 May 08 j 10:45	16°♂11'20	4.09760 AU	direct	-12706 Dec 25 j 12:50	1°♂≈22'25	
opposition	-12711 May 09 j 03:01	16°♂05'54	-0°01'08	asc. node	-12705 Feb 16 j 12:43	5°♂≈19'34	

Attention, astronomical year style is used: The year -12705 in astronomical counting style is the year 12706 BCE in historical counting style.

	-12705 Apr 11 j 04:31	15°♊		morning rise	-12700 Nov 03 j 05:03	6°♈23'54	
evening set	-12705 May 03 j 04:57	19°♊46'51			-12700 Dec 12 j 04:25	15°♈	
max. Earth dist.	-12705 May 15 j 06:33	22°♊28'25	6.31213 AU	retrograde	-12699 Mar 14 j 10:56	26°♈05'28	
				desc. node	-12699 Mar 14 j 21:09	26°♈05'27	
conjunction	-12705 May 16 j 05:17	22°♊41'08	0°13'12	min. Earth dist.	-12699 May 13 j 08:49	21°♈06'58	4.09213 AU
minimum elong	-12705 May 16 j 05:15	22°♊41'07	0°12'42	opposition	-12699 May 14 j 00:30	21°♈01'43	-0°14'28
behind sun begin	-12705 May 16 j 00:09	22°♊38'16		direct	-12699 Jul 11 j 12:15	16°♈06'32	
behind sun end	-12705 May 16 j 10:22	22°♊43'57			-12699 Oct 21 j 12:52	0°♏	
morning rise	-12705 May 29 j 02:05	25°♊33'39		evening set	-12699 Nov 12 j 04:59	4°♏56'01	
	-12705 Jun 18 j 10:38	0°♏					
retrograde	-12705 Sep 26 j 20:52	12°♏55'57		conjunction	-12699 Nov 25 j 17:37	8°♏05'13	-0°40'28
opposition	-12705 Nov 26 j 06:05	8°♏03'52	0°59'45	minimum elong	-12699 Nov 25 j 17:32	8°♏05'10	0°40'09
min. Earth dist.	-12705 Nov 26 j 22:55	7°♏58'29	4.32639 AU	max. Earth dist.	-12699 Nov 26 j 20:04	8°♏20'39	6.07742 AU
direct	-12704 Jan 27 j 15:51	3°♏03'16		morning rise	-12699 Dec 09 j 09:23	11°♏16'04	
evening set	-12704 Jun 02 j 23:39	21°♏10'45			-12698 Mar 24 j 02:49	0°♏	
				retrograde	-12698 Apr 19 j 08:50	1°♏06'08	
conjunction	-12704 Jun 15 j 14:39	24°♏00'16	1°06'43		-12698 May 15 j 07:28	30°♏	
minimum elong	-12704 Jun 15 j 14:33	24°♏00'13	1°06'38	min. Earth dist.	-12698 Jun 17 j 08:20	26°♏07'10	4.07452 AU
max. Earth dist.	-12704 Jun 14 j 13:44	23°♏46'17	6.33009 AU	opposition	-12698 Jun 18 j 01:31	26°♏01'19	-1°42'15
morning rise	-12704 Jun 28 j 03:21	26°♏48'36		direct	-12698 Aug 15 j 06:35	21°♏02'56	
	-12704 Jul 12 j 15:08	0°♏			-12698 Nov 02 j 04:44	0°♏	
retrograde	-12704 Oct 28 j 02:34	14°♏17'12		evening set	-12698 Dec 19 j 02:33	10°♏12'10	
opposition	-12704 Dec 28 j 04:31	9°♏25'07	2°06'52				
min. Earth dist.	-12704 Dec 28 j 21:05	9°♏19'52	4.32527 AU	conjunction	-12697 Jan 01 j 19:25	13°♏22'48	-1°29'34
direct	-12703 Feb 28 j 12:48	4°♏27'34		minimum elong	-12697 Jan 01 j 19:19	13°♏22'44	1°29'45
evening set	-12703 Jul 04 j 02:38	22°♏26'50		max. Earth dist.	-12697 Jan 02 j 18:11	13°♏36'02	6.08118 AU
				morning rise	-12697 Jan 15 j 13:46	16°♏34'06	
conjunction	-12703 Jul 16 j 11:24	25°♏14'11	1°40'45		-12697 Mar 21 j 03:41	0°♏	
minimum elong	-12703 Jul 16 j 11:20	25°♏14'09	1°41'05	retrograde	-12697 May 24 j 13:41	6°♏06'30	
max. Earth dist.	-12703 Jul 15 j 16:51	25°♏03'42	6.30870 AU	opposition	-12697 Jul 22 j 14:34	1°♏02'54	-2°32'45
morning rise	-12703 Jul 28 j 19:20	28°♏01'13		min. Earth dist.	-12697 Jul 22 j 03:01	1°♏06'52	4.10051 AU
	-12703 Aug 06 j 16:11	0°♏			-12697 Jul 30 j 07:15	30°♏	
	-12703 Nov 05 j 09:32	15°♏		direct	-12697 Sep 19 j 08:14	26°♏01'13	
retrograde	-12703 Nov 30 j 02:09	15°♏55'36			-12697 Nov 09 j 04:25	0°♏	
	-12703 Dec 24 j 22:01	15°♏			-12696 Jan 24 j 00:59	15°♏	
opposition	-12702 Jan 30 j 17:31	11°♏01'40	2°37'16	evening set	-12696 Jan 25 j 07:07	15°♏17'11	
min. Earth dist.	-12702 Jan 31 j 02:43	10°♏58'45	4.28622 AU				
direct	-12702 Apr 02 j 07:18	6°♏06'58		conjunction	-12696 Feb 07 j 23:49	18°♏25'34	-1°45'59
	-12702 Jun 22 j 14:38	15°♏		minimum elong	-12696 Feb 07 j 23:49	18°♏25'34	1°46'35
evening set	-12702 Aug 04 j 06:56	24°♏06'58		max. Earth dist.	-12696 Feb 08 j 12:27	18°♏32'49	6.12609 AU
				morning rise	-12696 Feb 21 j 15:36	21°♏33'25	
conjunction	-12702 Aug 16 j 15:39	26°♏56'16	1°45'14		-12696 Mar 31 j 08:59	0°♏	
minimum elong	-12702 Aug 16 j 15:40	26°♏56'17	1°45'55	retrograde	-12696 Jun 26 j 15:13	10°♏27'14	
max. Earth dist.	-12702 Aug 16 j 08:33	26°♏52'12	6.25431 AU	opposition	-12696 Aug 24 j 10:29	5°♏26'48	-2°28'27
morning rise	-12702 Aug 29 j 01:27	29°♏46'16		min. Earth dist.	-12696 Aug 24 j 07:22	5°♏27'52	4.16048 AU
	-12702 Aug 30 j 01:38	0°♏		direct	-12696 Oct 23 j 04:20	0°♏23'01	
retrograde	-12701 Jan 03 j 07:48	18°♏18'36		evening set	-12695 Mar 01 j 11:45	19°♏28'37	
opposition	-12701 Mar 05 j 23:55	13°♏21'29	2°20'13				
min. Earth dist.	-12701 Mar 06 j 00:37	13°♏21'15	4.22015 AU	conjunction	-12695 Mar 15 j 01:10	22°♏32'50	-1°25'14
direct	-12701 May 05 j 12:13	8°♏28'24		minimum elong	-12695 Mar 15 j 01:16	22°♏32'53	1°26'02
evening set	-12701 Sep 05 j 06:52	26°♏37'52		max. Earth dist.	-12695 Mar 14 j 21:03	22°♏30'30	6.19613 AU
				morning rise	-12695 Mar 28 j 12:18	25°♏35'42	
conjunction	-12701 Sep 17 j 22:43	29°♏33'17	1°17'06		-12695 Apr 17 j 09:50	0°♏	
minimum elong	-12701 Sep 17 j 22:49	29°♏33'20	1°17'54	retrograde	-12695 Jul 29 j 12:33	13°♏45'03	
max. Earth dist.	-12701 Sep 18 j 04:55	29°♏36'52	6.18251 AU	opposition	-12695 Sep 26 j 13:57	8°♏48'24	-1°34'47
	-12701 Sep 19 j 20:54	0°♏		min. Earth dist.	-12695 Sep 26 j 20:44	8°♏46'08	4.23349 AU
morning rise	-12701 Sep 30 j 17:31	2°♏30'20		direct	-12695 Nov 26 j 14:23	3°♏44'10	
retrograde	-12700 Feb 07 j 12:00	21°♏42'16		evening set	-12694 Apr 04 j 23:47	22°♏28'26	
opposition	-12700 Apr 08 j 20:28	16°♏41'28	1°17'04				
min. Earth dist.	-12700 Apr 08 j 10:27	16°♏44'45	4.14730 AU	conjunction	-12694 Apr 18 j 07:24	25°♏27'29	-0°37'06
direct	-12700 Jun 07 j 03:21	11°♏48'18		minimum elong	-12694 Apr 18 j 07:27	25°♏27'31	0°37'49
	-12700 Oct 06 j 16:58	0°♏		max. Earth dist.	-12694 Apr 17 j 15:46	25°♏18'42	6.26759 AU
evening set	-12700 Oct 07 j 19:22	0°♏15'16		morning rise	-12694 May 01 j 11:28	28°♏24'44	
					-12694 May 08 j 15:08	0°♏	
conjunction	-12700 Oct 20 j 22:24	3°♏18'35	0°22'50		-12694 Aug 05 j 16:23	15°♏	
minimum elong	-12700 Oct 20 j 22:27	3°♏18'36	0°23'31	retrograde	-12694 Aug 30 j 14:14	15°♏59'51	
max. Earth dist.	-12700 Oct 21 j 18:04	3°♏30'02	6.11601 AU		-12694 Sep 24 j 13:14	15°♏	

Attention, astronomical year style is used: The year -12694 in astronomical counting style is the year 12695 BCE in historical counting style.

opposition	-12694 Oct 29 j 06:49	11° $\approx$ 06'20	-0°13'03	minimum elong	-12688 Oct 25 j 18:26	8° $\Omega$ 10'13	0°14'49
min. Earth dist.	-12694 Oct 29 j 20:27	11° $\approx$ 01'54	4.29666 AU	behind sun begin	-12688 Oct 25 j 15:12	8° $\Omega$ 08'21	
asc. node	-12694 Dec 27 j 02:41	6° $\approx$ 04'28		behind sun end	-12688 Oct 25 j 21:40	8° $\Omega$ 12'06	
direct	-12694 Dec 30 j 06:37	6° $\approx$ 03'33		max. Earth dist.	-12688 Oct 26 j 14:48	8° $\Omega$ 22'06	6.10716 AU
	-12693 Mar 23 j 14:30	15° $\approx$		morning rise	-12688 Nov 08 j 02:41	11° $\Omega$ 16'37	
evening set	-12693 May 07 j 19:48	24° $\approx$ 25'03			-12688 Nov 24 j 10:00	15° $\Omega$	
				desc. node	-12687 Jan 23 j 06:23	26° $\Omega$ 34'46	
conjunction	-12693 May 20 j 18:37	27° $\approx$ 18'30	0°21'29		-12687 Feb 21 j 20:34	0° $\mathfrak{M}$	
minimum elong	-12693 May 20 j 18:35	27° $\approx$ 18'29	0°21'02	retrograde	-12687 Mar 19 j 10:51	1° $\mathfrak{M}$ 01'33	
max. Earth dist.	-12693 May 19 j 18:30	27° $\approx$ 05'00	6.31806 AU		-12687 Apr 13 j 19:10	30° $\mathfrak{R}$ $\Omega$	
	-12693 Jun 01 j 19:49	0° $\mathfrak{H}$		opposition	-12687 May 18 j 21:24	25° $\Omega$ 57'34	-0°27'37
morning rise	-12693 Jun 02 j 14:20	0° $\mathfrak{H}$ 10'18		min. Earth dist.	-12687 May 18 j 05:00	26° $\Omega$ 03'04	4.08478 AU
retrograde	-12693 Oct 01 j 11:09	17° $\mathfrak{H}$ 31'34		direct	-12687 Jul 16 j 06:08	21° $\Omega$ 02'01	
opposition	-12693 Nov 30 j 22:10	12° $\mathfrak{H}$ 39'35	1°10'51		-12687 Oct 02 j 22:27	0° $\mathfrak{M}$	
min. Earth dist.	-12693 Dec 01 j 15:36	12° $\mathfrak{H}$ 34'00	4.33083 AU	evening set	-12687 Nov 17 j 06:25	9° $\mathfrak{M}$ 55'39	
direct	-12692 Feb 01 j 09:26	7° $\mathfrak{H}$ 39'21					
evening set	-12692 Jun 07 j 10:26	25° $\mathfrak{H}$ 44'15		conjunction	-12687 Nov 30 j 19:58	13° $\mathfrak{M}$ 05'28	-0°48'37
max. Earth dist.	-12692 Jun 19 j 01:26	28° $\mathfrak{H}$ 20'15	6.33254 AU	minimum elong	-12687 Nov 30 j 19:53	13° $\mathfrak{M}$ 05'25	0°48'22
				max. Earth dist.	-12687 Dec 01 j 21:42	13° $\mathfrak{M}$ 20'30	6.07218 AU
conjunction	-12692 Jun 20 j 00:24	28° $\mathfrak{H}$ 33'08	1°12'59	morning rise	-12687 Dec 14 j 12:34	16° $\mathfrak{M}$ 16'52	
minimum elong	-12692 Jun 20 j 00:18	28° $\mathfrak{H}$ 33'05	1°12'58		-12686 Feb 18 j 08:33	0° $\Omega$	
	-12692 Jun 26 j 11:15	0° $\mathfrak{Y}$		retrograde	-12686 Apr 24 j 08:41	6° $\Omega$ 07'29	
morning rise	-12692 Jul 02 j 11:58	1° $\mathfrak{Y}$ 20'54		opposition	-12686 Jun 22 j 22:23	1° $\Omega$ 02'39	-1°52'07
retrograde	-12692 Nov 01 j 15:42	18° $\mathfrak{Y}$ 50'52		min. Earth dist.	-12686 Jun 22 j 06:02	1° $\Omega$ 08'15	4.07206 AU
opposition	-12691 Jan 01 j 21:10	13° $\mathfrak{Y}$ 58'36	2°13'38		-12686 Jun 30 j 15:04	30° $\mathfrak{R}$ $\mathfrak{M}$	
min. Earth dist.	-12691 Jan 02 j 12:07	13° $\mathfrak{Y}$ 53'52	4.32570 AU	direct	-12686 Aug 20 j 04:17	26° $\mathfrak{M}$ 03'46	
direct	-12691 Mar 05 j 03:01	9° $\mathfrak{Y}$ 01'30			-12686 Oct 09 j 03:59	0° $\Omega$	
evening set	-12691 Jul 08 j 11:29	26° $\mathfrak{Y}$ 58'58		evening set	-12686 Dec 24 j 08:10	15° $\Omega$ 16'16	
conjunction	-12691 Jul 20 j 19:36	29° $\mathfrak{Y}$ 46'07	1°43'17	conjunction	-12685 Jan 07 j 01:29	18° $\Omega$ 27'00	-1°34'03
minimum elong	-12691 Jul 20 j 19:33	29° $\mathfrak{Y}$ 46'05	1°43'40	minimum elong	-12685 Jan 07 j 01:22	18° $\Omega$ 26'57	1°34'18
max. Earth dist.	-12691 Jul 20 j 01:56	29° $\mathfrak{Y}$ 36'06	6.30678 AU	max. Earth dist.	-12685 Jan 08 j 00:46	18° $\Omega$ 40'31	6.08179 AU
	-12691 Jul 21 j 20:08	0° $\mathfrak{X}$		morning rise	-12685 Jan 20 j 19:40	21° $\Omega$ 38'10	
morning rise	-12691 Aug 02 j 03:19	2° $\mathfrak{X}$ 33'06			-12685 Feb 27 j 17:18	0° $\mathfrak{M}$	
	-12691 Oct 03 j 00:45	15° $\mathfrak{X}$		retrograde	-12685 May 29 j 11:50	11° $\mathfrak{M}$ 07'25	
retrograde	-12691 Dec 04 j 19:56	20° $\mathfrak{X}$ 30'52		opposition	-12685 Jul 27 j 10:32	6° $\mathfrak{M}$ 04'11	-2°35'31
opposition	-12690 Feb 04 j 11:20	15° $\mathfrak{X}$ 36'32	2°37'46	min. Earth dist.	-12685 Jul 26 j 23:39	6° $\mathfrak{M}$ 07'55	4.10437 AU
min. Earth dist.	-12690 Feb 04 j 20:31	15° $\mathfrak{X}$ 33'37	4.28194 AU	direct	-12685 Sep 24 j 05:56	1° $\mathfrak{M}$ 02'10	
	-12690 Feb 09 j 06:49	15° $\mathfrak{R}$ $\mathfrak{X}$			-12684 Jan 06 j 17:16	15° $\mathfrak{M}$	
direct	-12690 Apr 06 j 23:20	10° $\mathfrak{X}$ 42'05		evening set	-12684 Jan 30 j 12:14	20° $\mathfrak{M}$ 18'32	
	-12690 May 31 j 10:03	15° $\mathfrak{X}$					
evening set	-12690 Aug 08 j 16:10	28° $\mathfrak{X}$ 41'40		conjunction	-12684 Feb 13 j 04:32	23° $\mathfrak{M}$ 26'30	-1°45'09
	-12690 Aug 14 j 09:35	0° $\mathfrak{I}$		minimum elong	-12684 Feb 13 j 04:33	23° $\mathfrak{M}$ 26'31	1°45'47
				max. Earth dist.	-12684 Feb 13 j 14:16	23° $\mathfrak{M}$ 32'05	6.13273 AU
conjunction	-12690 Aug 21 j 01:26	1° $\mathfrak{I}$ 31'28	1°43'13	morning rise	-12684 Feb 26 j 20:00	26° $\mathfrak{M}$ 33'53	
minimum elong	-12690 Aug 21 j 01:29	1° $\mathfrak{I}$ 31'29	1°43'55		-12684 Mar 13 j 02:24	0° $\mathfrak{X}$	
max. Earth dist.	-12690 Aug 20 j 19:35	1° $\mathfrak{I}$ 28'07	6.24798 AU	retrograde	-12684 Jul 01 j 08:52	15° $\mathfrak{X}$ 22'02	
morning rise	-12690 Sep 02 j 12:05	4° $\mathfrak{I}$ 22'05		opposition	-12684 Aug 29 j 04:43	10° $\mathfrak{X}$ 22'03	-2°23'24
retrograde	-12689 Jan 08 j 01:29	22° $\mathfrak{I}$ 58'57		min. Earth dist.	-12684 Aug 29 j 02:40	10° $\mathfrak{X}$ 22'45	4.16921 AU
opposition	-12689 Mar 10 j 18:41	18° $\mathfrak{I}$ 01'18	2°13'57	direct	-12684 Oct 28 j 03:20	5° $\mathfrak{X}$ 18'02	
min. Earth dist.	-12689 Mar 10 j 17:34	18° $\mathfrak{I}$ 01'40	4.21217 AU	evening set	-12683 Mar 06 j 12:08	24° $\mathfrak{X}$ 21'15	
direct	-12689 May 10 j 02:17	13° $\mathfrak{I}$ 08'19					
	-12689 Sep 04 j 01:16	0° $\mathfrak{E}$		conjunction	-12683 Mar 20 j 01:01	27° $\mathfrak{X}$ 24'48	-1°19'40
evening set	-12689 Sep 09 j 19:27	1° $\mathfrak{E}$ 19'08		minimum elong	-12683 Mar 20 j 01:07	27° $\mathfrak{X}$ 24'52	1°20'28
				max. Earth dist.	-12683 Mar 19 j 20:32	27° $\mathfrak{X}$ 22'16	6.20646 AU
conjunction	-12689 Sep 22 j 12:43	4° $\mathfrak{E}$ 15'33	1°10'52		-12683 Mar 31 j 11:24	0° $\mathfrak{Z}$	
minimum elong	-12689 Sep 22 j 12:48	4° $\mathfrak{E}$ 15'36	1°11'42	morning rise	-12683 Apr 02 j 11:10	0° $\mathfrak{Z}$ 26'53	
max. Earth dist.	-12689 Sep 22 j 20:30	4° $\mathfrak{E}$ 20'04	6.17362 AU	retrograde	-12683 Aug 03 j 03:20	18° $\mathfrak{Z}$ 30'17	
morning rise	-12689 Oct 05 j 08:59	7° $\mathfrak{E}$ 13'40		opposition	-12683 Oct 01 j 06:06	13° $\mathfrak{Z}$ 34'06	-1°24'14
retrograde	-12688 Feb 12 j 11:05	26° $\mathfrak{E}$ 30'22		min. Earth dist.	-12683 Oct 01 j 13:44	13° $\mathfrak{Z}$ 31'34	4.24408 AU
opposition	-12688 Apr 13 j 16:42	21° $\mathfrak{E}$ 29'06	1°05'32	direct	-12683 Dec 01 j 10:22	8° $\mathfrak{Z}$ 29'58	
min. Earth dist.	-12688 Apr 13 j 06:52	21° $\mathfrak{E}$ 32'19	4.13790 AU	evening set	-12682 Apr 09 j 18:02	27° $\mathfrak{Z}$ 10'26	
direct	-12688 Jun 11 j 21:36	16° $\mathfrak{E}$ 35'42		max. Earth dist.	-12682 Apr 22 j 06:26	29° $\mathfrak{Z}$ 58'31	6.27748 AU
	-12688 Sep 20 j 02:57	0° $\Omega$			-12682 Apr 22 j 09:04	0° $\approx$	
evening set	-12688 Oct 12 j 13:50	5° $\Omega$ 05'49					
				conjunction	-12682 Apr 23 j 00:27	0° $\approx$ 08'38	-0°28'59
conjunction	-12688 Oct 25 j 18:24	8° $\Omega$ 10'12	0°14'11	minimum elong	-12682 Apr 23 j 00:30	0° $\approx$ 08'39	0°29'41

Attention, astronomical year style is used: The year -12682 in astronomical counting style is the year 12683 BCE in historical counting style.

morning rise	-12682 May 06 j 03:32	3°≈05'02			-12676 Sep 01 j 00:47	0°Ω	
	-12682 Jul 04 j 07:09	15°≈		evening set	-12676 Oct 17 j 13:30	10°Ω07'42	
retrograde	-12682 Sep 04 j 02:44	20°≈36'22					
opposition	-12682 Nov 02 j 21:49	15°≈43'06	-0°00'41	conjunction	-12676 Oct 30 j 19:32	13°Ω13'09	0°05'06
min. Earth dist.	-12682 Nov 03 j 12:25	15°≈38'21	4.30484 AU	minimum elong	-12676 Oct 30 j 19:33	13°Ω13'10	0°05'42
asc. node	-12682 Nov 06 j 00:51	15°≈18'43		behind sun begin	-12676 Oct 30 j 11:40	13°Ω08'34	
	-12682 Nov 08 j 10:44	15°≈		behind sun end	-12676 Oct 31 j 03:27	13°Ω17'45	
direct	-12681 Jan 04 j 00:10	10°≈40'32		max. Earth dist.	-12676 Oct 31 j 16:55	13°Ω25'38	6.09861 AU
	-12681 Feb 28 j 18:42	15°≈			-12676 Nov 07 j 10:36	15°Ω	
evening set	-12681 May 12 j 08:28	28°≈58'42		morning rise	-12676 Nov 13 j 05:23	16°Ω20'38	
	-12681 May 16 j 22:46	0°≈		desc. node	-12676 Dec 01 j 12:49	20°Ω31'12	
max. Earth dist.	-12681 May 24 j 06:48	1°≈38'20	6.32379 AU		-12675 Jan 17 j 21:15	0°≈	
				retrograde	-12675 Mar 24 j 14:45	6°≈08'32	
conjunction	-12681 May 25 j 06:05	1°≈51'21	0°29'34	opposition	-12675 May 23 j 22:14	1°≈04'19	-0°41'03
minimum elong	-12681 May 25 j 06:02	1°≈51'19	0°29'11	min. Earth dist.	-12675 May 23 j 05:05	1°≈10'06	4.07986 AU
morning rise	-12681 Jun 07 j 00:23	4°≈42'22			-12675 May 31 j 22:41	30°≈Ω	
retrograde	-12681 Oct 05 j 23:02	22°≈03'07		direct	-12675 Jul 21 j 05:39	26°Ω08'25	
opposition	-12681 Dec 05 j 13:12	17°≈11'13	1°21'27		-12675 Sep 08 j 12:56	0°≈	
min. Earth dist.	-12681 Dec 06 j 06:25	17°≈05'44	4.33365 AU	evening set	-12675 Nov 22 j 12:12	15°≈05'21	
direct	-12680 Feb 06 j 00:28	12°≈11'27					
	-12680 Jun 10 j 18:12	0°≈		conjunction	-12675 Dec 06 j 02:44	18°≈15'35	-0°56'39
evening set	-12680 Jun 11 j 20:04	0°≈14'23		minimum elong	-12675 Dec 06 j 02:38	18°≈15'32	0°56'29
max. Earth dist.	-12680 Jun 23 j 08:41	2°≈49'15	6.33192 AU	max. Earth dist.	-12675 Dec 07 j 06:49	18°≈31'59	6.07169 AU
				morning rise	-12675 Dec 19 j 19:50	21°≈27'12	
conjunction	-12680 Jun 24 j 08:45	3°≈02'45	1°18'49		-12674 Jan 27 j 09:48	0°≈	
minimum elong	-12680 Jun 24 j 08:39	3°≈02'42	1°18'50	retrograde	-12674 Apr 29 j 10:48	11°≈15'50	
morning rise	-12680 Jul 06 j 19:35	5°≈50'11		opposition	-12674 Jun 27 j 21:48	6°≈11'08	-2°01'19
retrograde	-12680 Nov 06 j 07:07	23°≈22'55		min. Earth dist.	-12674 Jun 27 j 05:28	6°≈16'44	4.07663 AU
opposition	-12679 Jan 06 j 13:44	18°≈30'27	2°19'41	direct	-12674 Aug 25 j 04:25	1°≈11'53	
min. Earth dist.	-12679 Jan 07 j 04:51	18°≈25'40	4.32177 AU	evening set	-12674 Dec 29 j 15:44	20°≈24'44	
direct	-12679 Mar 09 j 18:09	13°≈33'44					
	-12679 Jul 06 j 01:37	0°≈		conjunction	-12673 Jan 12 j 08:50	23°≈34'59	-1°37'53
evening set	-12679 Jul 12 j 20:24	1°≈31'03		minimum elong	-12673 Jan 12 j 08:45	23°≈34'56	1°38'13
				max. Earth dist.	-12673 Jan 13 j 06:18	23°≈47'24	6.09079 AU
conjunction	-12679 Jul 25 j 04:24	4°≈18'21	1°45'14	morning rise	-12673 Jan 26 j 02:54	26°≈45'34	
minimum elong	-12679 Jul 25 j 04:21	4°≈18'19	1°45'41		-12673 Feb 09 j 09:04	0°≈	
max. Earth dist.	-12679 Jul 24 j 12:42	4°≈09'27	6.29976 AU		-12673 May 07 j 23:52	15°≈	
morning rise	-12679 Aug 06 j 11:57	7°≈05'34		retrograde	-12673 Jun 03 j 07:01	16°≈08'08	
	-12679 Sep 12 j 07:08	15°≈			-12673 Jun 29 j 09:00	15°≈	
retrograde	-12679 Dec 09 j 13:26	25°≈08'34		opposition	-12673 Aug 01 j 06:05	11°≈05'14	-2°37'02
opposition	-12678 Feb 09 j 06:20	20°≈13'52	2°37'23	min. Earth dist.	-12673 Jul 31 j 19:36	11°≈08'49	4.11714 AU
min. Earth dist.	-12678 Feb 09 j 13:55	20°≈11'28	4.27240 AU	direct	-12673 Sep 29 j 05:39	6°≈02'50	
direct	-12678 Apr 11 j 14:08	15°≈19'47			-12673 Dec 18 j 14:14	15°≈	
	-12678 Jul 29 j 05:53	0°≈		evening set	-12672 Feb 04 j 15:28	25°≈16'05	
evening set	-12678 Aug 13 j 03:25	3°≈20'51					
				conjunction	-12672 Feb 18 j 07:24	28°≈23'12	-1°43'34
conjunction	-12678 Aug 25 j 13:21	6°≈11'25	1°40'32	minimum elong	-12672 Feb 18 j 07:26	28°≈23'13	1°44'15
minimum elong	-12678 Aug 25 j 13:25	6°≈11'26	1°41'15	max. Earth dist.	-12672 Feb 18 j 16:14	28°≈28'16	6.14822 AU
max. Earth dist.	-12678 Aug 25 j 08:36	6°≈08'41	6.23662 AU		-12672 Feb 25 j 08:42	0°≈	
morning rise	-12678 Sep 07 j 01:04	9°≈02'59		morning rise	-12672 Mar 02 j 21:58	1°≈29'32	
retrograde	-12677 Jan 13 j 01:12	27°≈46'22		retrograde	-12672 Jul 05 j 23:56	20°≈08'57	
opposition	-12677 Mar 15 j 16:44	22°≈48'14	2°06'42	opposition	-12672 Sep 02 j 19:41	15°≈09'31	-2°17'25
min. Earth dist.	-12677 Mar 15 j 14:51	22°≈48'50	4.19959 AU	min. Earth dist.	-12672 Sep 02 j 19:31	15°≈09'34	4.18574 AU
direct	-12677 May 14 j 20:58	17°≈55'19		direct	-12672 Nov 01 j 23:32	10°≈05'21	
	-12677 Aug 17 j 23:43	0°≈		evening set	-12671 Mar 11 j 07:41	29°≈03'25	
evening set	-12677 Sep 14 j 11:49	6°≈09'09			-12671 Mar 15 j 12:25	0°≈	
conjunction	-12677 Sep 27 j 06:40	9°≈06'49	1°03'59	conjunction	-12671 Mar 24 j 19:45	2°≈05'59	-1°13'47
minimum elong	-12677 Sep 27 j 06:46	9°≈06'52	1°04'47	minimum elong	-12671 Mar 24 j 19:51	2°≈06'02	1°14'35
max. Earth dist.	-12677 Sep 27 j 16:44	9°≈12'39	6.16121 AU	max. Earth dist.	-12671 Mar 24 j 12:18	2°≈01'46	6.22257 AU
morning rise	-12677 Oct 10 j 04:39	12°≈06'16		morning rise	-12671 Apr 07 j 05:01	5°≈07'02	
	-12676 Jan 17 j 08:34	0°≈		retrograde	-12671 Aug 07 j 11:37	23°≈03'09	
retrograde	-12676 Feb 17 j 13:35	1°≈28'43		opposition	-12671 Oct 05 j 17:21	18°≈07'24	-1°13'37
	-12676 Mar 19 j 14:36	30°≈		min. Earth dist.	-12671 Oct 06 j 02:18	18°≈04'26	4.25832 AU
opposition	-12676 Apr 18 j 16:48	26°≈27'06	0°53'07	direct	-12671 Dec 06 j 01:16	13°≈03'18	
min. Earth dist.	-12676 Apr 18 j 05:20	26°≈30'52	4.12682 AU		-12670 Apr 06 j 18:50	0°≈	
direct	-12676 Jun 16 j 17:19	21°≈33'37		evening set	-12670 Apr 14 j 06:08	1°≈39'02	

Attention, astronomical year style is used: The year -12670 in astronomical counting style is the year 12671 BCE in historical counting style.

conjunction	-12670 Apr 27 j 11:26	4°≈36'19	-0°21'06	min. Earth dist.	-12664 Apr 23 j 04:40	1°Ω32'44	4.11587 AU
minimum elong	-12670 Apr 27 j 11:28	4°≈36'20	0°21'46		-12664 May 05 j 01:41	30°R☾	
max. Earth dist.	-12670 Apr 26 j 15:53	4°≈25'21	6.28883 AU	direct	-12664 Jun 21 j 15:12	26°☾34'31	
morning rise	-12670 May 10 j 13:16	7°≈31'47			-12664 Aug 07 j 03:03	0°Ω	
	-12670 Jun 14 j 13:49	15°≈		desc. node	-12664 Oct 09 j 10:31	12°Ω10'31	
retrograde	-12670 Sep 08 j 10:13	24°≈59'30			-12664 Oct 21 j 17:33	15°Ω	
asc. node	-12670 Sep 17 j 23:39	24°≈50'34		evening set	-12664 Oct 22 j 14:42	15°Ω12'16	
opposition	-12670 Nov 07 j 07:21	20°≈06'34	0°11'01				
min. Earth dist.	-12670 Nov 07 j 23:37	20°≈01'17	4.31235 AU	conjunction	-12664 Nov 04 j 22:22	18°Ω18'42	-0°04'17
direct	-12669 Jan 08 j 12:26	15°≈04'18		minimum elong	-12664 Nov 04 j 22:23	18°Ω18'42	0°03'44
	-12669 May 01 j 10:41	0°X		behind sun begin	-12664 Nov 04 j 14:12	18°Ω13'57	
evening set	-12669 May 16 j 15:45	3°X19'41		behind sun end	-12664 Nov 05 j 06:34	18°Ω23'28	
max. Earth dist.	-12669 May 28 j 10:18	5°X57'16	6.32666 AU	max. Earth dist.	-12664 Nov 05 j 23:17	18°Ω33'15	6.09164 AU
				morning rise	-12664 Nov 18 j 09:33	21°Ω27'05	
conjunction	-12669 May 29 j 12:03	6°X11'40	0°37'04		-12664 Dec 26 j 23:47	0°M	
minimum elong	-12669 May 29 j 11:59	6°X11'38	0°36'44	retrograde	-12663 Mar 29 j 19:29	11°M16'33	
morning rise	-12669 Jun 11 j 05:21	9°X02'07		opposition	-12663 May 28 j 23:31	6°M12'03	-0°54'17
retrograde	-12669 Oct 10 j 07:09	26°X23'40		min. Earth dist.	-12663 May 28 j 06:02	6°M17'58	4.07741 AU
opposition	-12669 Dec 09 j 23:32	21°X31'47	1°31'07	direct	-12663 Jul 26 j 05:40	1°M15'43	
min. Earth dist.	-12669 Dec 10 j 17:28	21°X26'04	4.33198 AU	evening set	-12663 Nov 27 j 18:50	20°M14'54	
direct	-12668 Feb 10 j 10:17	16°X32'19					
	-12668 May 26 j 01:27	0°Y		conjunction	-12663 Dec 11 j 09:52	23°M25'16	-1°04'18
evening set	-12668 Jun 16 j 01:28	4°Y35'08		minimum elong	-12663 Dec 11 j 09:45	23°M25'12	1°04'12
				max. Earth dist.	-12663 Dec 12 j 12:49	23°M40'59	6.07334 AU
conjunction	-12668 Jun 28 j 13:25	7°Y23'20	1°23'55	morning rise	-12663 Dec 25 j 03:34	26°M36'56	
minimum elong	-12668 Jun 28 j 13:19	7°Y23'17	1°24'00		-12662 Jan 08 j 22:51	0°A	
max. Earth dist.	-12668 Jun 27 j 14:28	7°Y10'26	6.32569 AU	retrograde	-12662 May 04 j 10:23	16°A22'28	
morning rise	-12668 Jul 10 j 23:25	10°Y10'40		opposition	-12662 Jul 02 j 20:26	11°A17'50	-2°09'38
retrograde	-12668 Nov 10 j 19:14	27°Y48'10		min. Earth dist.	-12662 Jul 02 j 03:58	11°A23'29	4.08214 AU
opposition	-12667 Jan 11 j 03:20	22°Y55'31	2°24'42	direct	-12662 Aug 30 j 04:39	6°A18'03	
min. Earth dist.	-12667 Jan 11 j 18:06	22°Y50'51	4.31164 AU	evening set	-12661 Jan 03 j 22:53	25°A31'06	
direct	-12667 Mar 14 j 05:23	17°Y59'13					
	-12667 Jun 19 j 19:20	0°B		conjunction	-12661 Jan 17 j 16:05	28°A40'56	-1°41'02
evening set	-12667 Jul 17 j 03:20	5°B58'32		minimum elong	-12661 Jan 17 j 16:01	28°A40'53	1°41'25
				max. Earth dist.	-12661 Jan 18 j 12:57	28°A52'59	6.09938 AU
conjunction	-12667 Jul 29 j 11:07	8°B46'16	1°46'26		-12661 Jan 23 j 08:57	0°M	
minimum elong	-12667 Jul 29 j 11:05	8°B46'15	1°46'56	morning rise	-12661 Jan 31 j 09:39	1°M50'53	
max. Earth dist.	-12667 Jul 28 j 19:08	8°B37'11	6.28632 AU		-12661 Apr 04 j 19:07	15°M	
morning rise	-12667 Aug 10 j 19:04	11°B34'08		retrograde	-12661 Jun 08 j 04:34	21°M07'11	
	-12667 Aug 26 j 04:34	15°B		opposition	-12661 Aug 06 j 01:29	16°M04'44	-2°37'33
retrograde	-12667 Dec 14 j 08:01	29°B44'36		min. Earth dist.	-12661 Aug 05 j 17:06	16°M07'36	4.12786 AU
opposition	-12666 Feb 14 j 00:33	24°B49'27	2°35'58		-12661 Aug 14 j 00:05	15°R M	
min. Earth dist.	-12666 Feb 14 j 07:00	24°B47'24	4.25669 AU	direct	-12661 Oct 04 j 05:27	11°M02'00	
direct	-12666 Apr 16 j 04:17	19°B55'34			-12661 Nov 24 j 08:34	15°M	
	-12666 Jul 11 j 21:01	0°II			-12660 Feb 08 j 19:27	0°X	
evening set	-12666 Aug 17 j 14:43	8°II00'10		evening set	-12660 Feb 09 j 18:35	0°X13'06	
conjunction	-12666 Aug 30 j 01:49	10°II51'52	1°37'07	conjunction	-12660 Feb 23 j 10:06	3°X19'33	-1°41'19
minimum elong	-12666 Aug 30 j 01:53	10°II51'55	1°37'52	minimum elong	-12660 Feb 23 j 10:09	3°X19'35	1°42'02
max. Earth dist.	-12666 Aug 30 j 00:17	10°II50'59	6.22013 AU	max. Earth dist.	-12660 Feb 23 j 16:23	3°X23'08	6.16001 AU
morning rise	-12666 Sep 11 j 14:41	13°II44'40		morning rise	-12660 Mar 08 j 00:04	6°X25'06	
	-12666 Dec 06 j 23:57	0°☾		retrograde	-12660 Jul 10 j 14:10	24°X57'35	
retrograde	-12665 Jan 18 j 01:16	2°☾35'53		opposition	-12660 Sep 07 j 11:50	19°X58'41	-2°10'38
	-12665 Mar 01 j 09:29	30°R II		min. Earth dist.	-12660 Sep 07 j 12:30	19°X58'27	4.19754 AU
opposition	-12665 Mar 20 j 15:13	27°II37'16	1°58'28	direct	-12660 Nov 06 j 19:08	14°X54'26	
min. Earth dist.	-12665 Mar 20 j 11:28	27°II38'29	4.18366 AU		-12659 Feb 26 j 20:57	0°Z	
direct	-12665 May 19 j 14:38	22°II44'25		evening set	-12659 Mar 16 j 04:49	3°Z49'15	
	-12665 Jul 29 j 10:46	0°☾					
evening set	-12665 Sep 19 j 05:58	11°☾02'20		conjunction	-12659 Mar 29 j 16:03	6°Z51'04	-1°07'22
				minimum elong	-12659 Mar 29 j 16:09	6°Z51'08	1°08'09
conjunction	-12665 Oct 02 j 02:21	14°☾01'19	0°56'31	max. Earth dist.	-12659 Mar 29 j 05:59	6°Z45'24	6.23368 AU
minimum elong	-12665 Oct 02 j 02:27	14°☾01'22	0°57'17	morning rise	-12659 Apr 12 j 00:26	9°Z51'19	
max. Earth dist.	-12665 Oct 02 j 14:07	14°☾08'10	6.14727 AU	retrograde	-12659 Aug 12 j 01:07	27°Z42'14	
morning rise	-12665 Oct 15 j 02:15	17°☾02'12		opposition	-12659 Oct 10 j 07:36	22°Z47'02	-1°02'22
	-12665 Dec 16 j 07:33	0°Ω		min. Earth dist.	-12659 Oct 10 j 18:43	22°Z43'21	4.26765 AU
retrograde	-12664 Feb 22 j 17:20	6°Ω30'30		direct	-12659 Dec 10 j 19:46	17°Z43'08	
opposition	-12664 Apr 23 j 18:03	1°Ω28'18	0°40'05		-12658 Mar 20 j 18:44	0°≈	

Attention, astronomical year style is used: The year -12658 in astronomical counting style is the year 12659 BCE in historical counting style.

evening set	-12658 Apr 18 j 21:30	6°≈15'50		evening set	-12653 Jul 02 j 13:15	0°☾	
max. Earth dist.	-12658 May 01 j 04:40	9°≈00'37	6.29574 AU		-12653 Sep 23 j 23:33	15°☾54'35	
conjunction	-12658 May 02 j 01:45	9°≈12'24	-0°12'51	conjunction	-12653 Oct 06 j 21:37	18°☾54'34	0°48'46
minimum elong	-12658 May 02 j 01:46	9°≈12'25	0°13'28	minimum elong	-12653 Oct 06 j 21:42	18°☾54'37	0°49'32
behind sun begin	-12658 May 01 j 21:14	9°≈09'53		max. Earth dist.	-12653 Oct 07 j 12:58	19°☾03'30	6.14077 AU
behind sun end	-12658 May 02 j 06:18	9°≈14'56		morning rise	-12653 Oct 19 j 22:59	21°☾56'27	
morning rise	-12658 May 15 j 02:26	12°≈07'09			-12653 Nov 25 j 09:47	0°♈	
	-12658 May 28 j 04:35	15°≈		retrograde	-12652 Feb 27 j 18:55	11°♈27'38	
asc. node	-12658 Jul 28 j 07:37	26°≈14'59		opposition	-12652 Apr 28 j 16:48	6°♈25'01	0°27'03
retrograde	-12658 Sep 12 j 20:51	29°≈32'55		min. Earth dist.	-12652 Apr 28 j 03:02	6°♈29'35	4.11142 AU
opposition	-12658 Nov 11 j 21:23	24°≈40'15	0°23'08	direct	-12652 Jun 26 j 11:34	1°♈30'58	
min. Earth dist.	-12658 Nov 12 j 13:45	24°≈34'58	4.31651 AU	desc. node	-12652 Aug 19 j 10:50	6°♈02'55	
direct	-12657 Jan 13 j 03:13	19°≈38'21			-12652 Oct 04 j 19:13	15°♈	
	-12657 Apr 13 j 23:10	0°♏		evening set	-12652 Oct 27 j 13:45	20°♈10'32	
evening set	-12657 May 21 j 03:12	7°♏51'57					
conjunction	-12657 Jun 02 j 22:14	10°♏43'21	0°44'42	conjunction	-12652 Nov 09 j 22:31	23°♈17'34	-0°13'14
minimum elong	-12657 Jun 02 j 22:10	10°♏43'18	0°44'25	minimum elong	-12652 Nov 09 j 22:30	23°♈17'33	0°12'45
max. Earth dist.	-12657 Jun 01 j 20:43	10°♏29'03	6.32783 AU	behind sun begin	-12652 Nov 09 j 17:22	23°♈14'34	
morning rise	-12657 Jun 15 j 14:21	13°♏33'16		behind sun end	-12652 Nov 10 j 03:38	23°♈20'32	
	-12657 Sep 20 j 06:46	0°♐		max. Earth dist.	-12652 Nov 10 j 22:47	23°♈31'44	6.08949 AU
retrograde	-12657 Oct 14 j 20:58	0°♐56'19		morning rise	-12652 Nov 23 j 11:02	26°♈26'33	
	-12657 Nov 08 j 12:44	30°♐♏			-12652 Dec 09 j 00:15	0°♐	
opposition	-12657 Dec 14 j 15:16	26°♏04'32	1°40'44	retrograde	-12651 Apr 03 j 17:30	16°♐15'52	
min. Earth dist.	-12657 Dec 15 j 09:33	25°♏58'43	4.33022 AU	opposition	-12651 Jun 02 j 20:27	11°♐11'10	-1°06'41
direct	-12656 Feb 15 j 02:25	21°♏05'36		min. Earth dist.	-12651 Jun 02 j 02:13	11°♐17'21	4.07780 AU
	-12656 May 07 j 23:02	0°♐		direct	-12651 Jul 31 j 01:53	6°♐14'18	
evening set	-12656 Jun 20 j 11:23	9°♐07'55		evening set	-12651 Dec 02 j 21:33	25°♐15'13	
conjunction	-12656 Jul 02 j 22:21	11°♐55'53	1°28'49	conjunction	-12651 Dec 16 j 13:16	28°♐25'40	-1°11'13
minimum elong	-12656 Jul 02 j 22:16	11°♐55'50	1°28'59	minimum elong	-12651 Dec 16 j 13:09	28°♐25'36	1°11'11
max. Earth dist.	-12656 Jul 01 j 23:06	11°♐42'47	6.32103 AU	max. Earth dist.	-12651 Dec 17 j 16:17	28°♐41'24	6.07604 AU
morning rise	-12656 Jul 15 j 07:50	14°♐43'08			-12651 Dec 23 j 07:20	0°♑	
	-12656 Oct 06 j 04:24	0°♑		morning rise	-12651 Dec 30 j 07:05	1°♑37'13	
retrograde	-12656 Nov 15 j 11:28	2°♑24'54		retrograde	-12650 May 09 j 08:27	21°♑19'38	
	-12656 Dec 26 j 09:59	30°♑♐		opposition	-12650 Jul 07 j 15:12	16°♑15'10	-2°16'43
opposition	-12655 Jan 15 j 21:37	27°♐32'01	2°29'08	min. Earth dist.	-12650 Jul 07 j 00:42	16°♑20'08	4.08692 AU
min. Earth dist.	-12655 Jan 16 j 10:51	27°♐27'50	4.30481 AU	direct	-12650 Sep 04 j 02:14	11°♑14'53	
direct	-12655 Mar 18 j 20:42	22°♐36'09			-12649 Jan 07 j 00:22	0°♒	
	-12655 May 31 j 16:21	0°♑		evening set	-12649 Jan 09 j 02:09	0°♒28'30	
evening set	-12655 Jul 21 j 13:53	10°♑36'03					
conjunction	-12655 Aug 02 j 21:49	13°♑24'07	1°47'08	conjunction	-12649 Jan 22 j 19:15	3°♒38'00	-1°43'21
minimum elong	-12655 Aug 02 j 21:48	13°♑24'07	1°47'40	minimum elong	-12649 Jan 22 j 19:12	3°♒37'58	1°43'46
max. Earth dist.	-12655 Aug 02 j 09:11	13°♑16'55	6.27806 AU	max. Earth dist.	-12649 Jan 23 j 13:46	3°♒48'40	6.10555 AU
	-12655 Aug 09 j 22:13	15°♑		morning rise	-12649 Feb 05 j 12:32	6°♒47'29	
morning rise	-12655 Aug 15 j 05:51	16°♑12'24			-12649 Mar 14 j 21:47	15°♒	
	-12655 Oct 24 j 02:33	0°♒		retrograde	-12649 Jun 12 j 20:34	25°♒58'37	
retrograde	-12655 Dec 19 j 04:53	4°♒28'19		opposition	-12649 Aug 10 j 17:38	20°♒56'36	-2°36'58
	-12654 Feb 15 j 07:59	30°♑♑		min. Earth dist.	-12649 Aug 10 j 09:56	20°♒59'14	4.13501 AU
opposition	-12654 Feb 18 j 21:39	29°♑32'48	2°33'34	direct	-12649 Oct 08 j 23:53	15°♒53'32	
min. Earth dist.	-12654 Feb 19 j 02:43	29°♑31'11	4.24775 AU		-12648 Jan 22 j 23:01	0°♓	
direct	-12654 Apr 20 j 22:09	24°♑39'14		evening set	-12648 Feb 14 j 19:05	5°♓03'53	
	-12654 Jun 20 j 15:58	0°♒					
evening set	-12654 Aug 22 j 04:01	12°♒44'52		conjunction	-12648 Feb 28 j 10:07	8°♓09'51	-1°38'25
conjunction	-12654 Sep 03 j 15:57	15°♒37'21	1°33'06	minimum elong	-12648 Feb 28 j 10:11	8°♓09'53	1°39'10
minimum elong	-12654 Sep 03 j 16:02	15°♒37'23	1°33'53	max. Earth dist.	-12648 Feb 28 j 13:02	8°♓11'30	6.16760 AU
max. Earth dist.	-12654 Sep 03 j 15:35	15°♒37'08	6.21133 AU	morning rise	-12648 Mar 12 j 23:32	11°♓14'50	
morning rise	-12654 Sep 16 j 06:13	18°♒31'06		retrograde	-12648 Jul 15 j 05:20	29°♓42'02	
	-12654 Nov 09 j 21:39	0°☾		opposition	-12648 Sep 12 j 02:32	24°♓43'40	-2°03'07
retrograde	-12653 Jan 23 j 00:47	7°☾27'19		min. Earth dist.	-12648 Sep 12 j 05:44	24°♓42'36	4.20473 AU
opposition	-12653 Mar 25 j 13:59	2°☾28'07	1°49'26	direct	-12648 Nov 11 j 14:26	19°♓39'21	
min. Earth dist.	-12653 Mar 25 j 07:56	2°☾30'05	4.17554 AU		-12647 Feb 08 j 22:33	0°♔	
	-12653 Apr 14 j 14:18	30°♑♒		evening set	-12647 Mar 21 j 00:34	8°♔32'25	
direct	-12653 May 24 j 09:12	27°♒35'13					
				conjunction	-12647 Apr 03 j 11:14	11°♔33'45	-1°00'34
				minimum elong	-12647 Apr 03 j 11:20	11°♔33'48	1°01'21
				max. Earth dist.	-12647 Apr 03 j 00:09	11°♔27'30	6.24012 AU

Attention, astronomical year style is used: The year -12647 in astronomical counting style is the year 12648 BCE in historical counting style.

morning rise	-12647 Apr 16 j 18:39	14°♁33'23		conjunction	-12642 Sep 08 j 05:57	20°♁20'42	1°28'32
	-12647 Jul 08 j 22:59	0°♁		minimum elong	-12642 Sep 08 j 06:03	20°♁20'45	1°29'19
retrograde	-12647 Aug 16 j 12:27	2°♁20'45		max. Earth dist.	-12642 Sep 08 j 08:54	20°♁22'24	6.20356 AU
	-12647 Sep 24 j 08:50	30°♁♁		morning rise	-12642 Sep 20 j 21:21	23°♁15'21	
opposition	-12647 Oct 14 j 21:57	27°♁25'58	-0°50'47		-12642 Oct 21 j 08:29	0°♁	
min. Earth dist.	-12647 Oct 15 j 09:04	27°♁22'18	4.27287 AU	retrograde	-12641 Jan 28 j 00:50	12°♁16'10	
direct	-12647 Dec 15 j 12:00	22°♁22'17		opposition	-12641 Mar 30 j 11:40	7°♁16'30	1°39'43
	-12646 Mar 01 j 10:33	0°♁		min. Earth dist.	-12641 Mar 30 j 05:19	7°♁18'34	4.16765 AU
evening set	-12646 Apr 23 j 13:01	10°♁53'08		direct	-12641 May 29 j 03:54	2°♁23'35	
				evening set	-12641 Sep 28 j 17:05	20°♁44'49	
conjunction	-12646 May 06 j 15:58	13°♁49'02	-0°04'31				
minimum elong	-12646 May 06 j 15:59	13°♁49'03	0°05'05	conjunction	-12641 Oct 11 j 16:33	23°♁45'47	0°40'45
behind sun begin	-12646 May 06 j 08:08	13°♁44'40		minimum elong	-12641 Oct 11 j 16:37	23°♁45'50	0°41'30
behind sun end	-12646 May 06 j 23:50	13°♁53'25		max. Earth dist.	-12641 Oct 12 j 08:02	23°♁54'48	6.13355 AU
max. Earth dist.	-12646 May 05 j 17:31	13°♁36'28	6.29954 AU	morning rise	-12641 Oct 24 j 19:45	26°♁48'46	
	-12646 May 11 j 22:41	15°♁			-12641 Nov 07 j 18:42	0°♁	
morning rise	-12646 May 19 j 15:37	16°♁43'12			-12640 Feb 02 j 17:13	15°♁	
asc. node	-12646 Jun 05 j 20:53	20°♁29'36		retrograde	-12640 Mar 03 j 17:59	16°♁23'14	
	-12646 Jul 26 j 19:57	0°♁			-12640 Apr 02 j 14:34	15°♁♁	
retrograde	-12646 Sep 17 j 10:43	4°♁08'02		opposition	-12640 May 03 j 14:38	11°♁20'14	0°13'53
	-12646 Nov 10 j 18:26	30°♁♁		min. Earth dist.	-12640 May 02 j 23:20	11°♁25'20	4.10544 AU
opposition	-12646 Nov 16 j 12:45	29°♁15'36	0°35'11	desc. node	-12640 Jun 30 j 03:46	6°♁26'01	
min. Earth dist.	-12646 Nov 17 j 06:11	29°♁09'59	4.31864 AU	direct	-12640 Jul 01 j 05:59	6°♁25'53	
direct	-12645 Jan 17 j 21:08	24°♁14'06			-12640 Sep 16 j 01:04	15°♁	
	-12645 Mar 24 j 02:46	0°♁		evening set	-12640 Nov 01 j 12:55	25°♁08'19	
evening set	-12645 May 25 j 15:31	12°♁26'10					
max. Earth dist.	-12645 Jun 06 j 08:25	15°♁03'02	6.32805 AU	conjunction	-12640 Nov 14 j 23:04	28°♁16'07	-0°22'05
				minimum elong	-12640 Nov 14 j 23:02	28°♁16'05	0°21'40
conjunction	-12645 Jun 07 j 09:22	15°♁17'00	0°52'08	max. Earth dist.	-12640 Nov 16 j 00:54	28°♁31'12	6.08538 AU
minimum elong	-12645 Jun 07 j 09:17	15°♁16'58	0°51'54		-12640 Nov 22 j 09:03	0°♁	
morning rise	-12645 Jun 20 j 00:19	18°♁06'26		morning rise	-12640 Nov 28 j 12:34	1°♁25'43	
	-12645 Aug 18 j 08:46	0°♁		retrograde	-12639 Apr 08 j 18:56	21°♁15'49	
retrograde	-12645 Oct 19 j 10:19	5°♁31'05		opposition	-12639 Jun 07 j 17:46	16°♁11'03	-1°18'38
opposition	-12645 Dec 19 j 08:05	0°♁39'12	1°49'50	min. Earth dist.	-12639 Jun 07 j 00:44	16°♁16'50	4.07593 AU
min. Earth dist.	-12645 Dec 20 j 00:47	0°♁33'53	4.32882 AU	direct	-12639 Aug 04 j 23:46	11°♁13'44	
	-12645 Dec 24 j 11:48	30°♁♁			-12639 Dec 06 j 19:20	0°♁	
direct	-12644 Feb 19 j 17:34	25°♁40'42		evening set	-12639 Dec 08 j 01:31	0°♁17'26	
	-12644 Apr 15 j 08:42	0°♁					
evening set	-12644 Jun 24 j 21:59	13°♁42'03		conjunction	-12639 Dec 21 j 17:41	3°♁28'03	-1°17'39
max. Earth dist.	-12644 Jul 06 j 11:01	16°♁17'50	6.31793 AU	minimum elong	-12639 Dec 21 j 17:34	3°♁27'59	1°17'42
				max. Earth dist.	-12639 Dec 22 j 19:31	3°♁43'04	6.07641 AU
conjunction	-12644 Jul 07 j 08:08	16°♁29'44	1°33'13	morning rise	-12638 Jan 04 j 11:51	6°♁39'39	
minimum elong	-12644 Jul 07 j 08:02	16°♁29'41	1°33'26	retrograde	-12638 May 14 j 05:47	26°♁19'38	
morning rise	-12644 Jul 19 j 16:54	19°♁16'49		opposition	-12638 Jul 12 j 10:43	21°♁15'25	-2°22'53
	-12644 Sep 09 j 16:13	0°♁		min. Earth dist.	-12638 Jul 11 j 20:19	21°♁20'21	4.08974 AU
retrograde	-12644 Nov 20 j 05:21	7°♁02'06		direct	-12638 Sep 08 j 22:21	16°♁14'42	
opposition	-12643 Jan 20 j 16:36	2°♁08'56	2°32'39		-12638 Dec 20 j 18:29	0°♁	
min. Earth dist.	-12643 Jan 21 j 05:22	2°♁04'54	4.30016 AU	evening set	-12637 Jan 14 j 07:08	5°♁29'44	
	-12643 Feb 07 j 06:35	30°♁♁					
direct	-12643 Mar 23 j 14:14	27°♁13'27		conjunction	-12637 Jan 28 j 00:06	8°♁38'58	-1°44'56
	-12643 May 06 j 01:28	0°♁		minimum elong	-12637 Jan 28 j 00:03	8°♁38'57	1°45'24
	-12643 Jul 25 j 01:30	15°♁		max. Earth dist.	-12637 Jan 28 j 15:41	8°♁47'57	6.11038 AU
evening set	-12643 Jul 26 j 00:23	15°♁12'56		morning rise	-12637 Feb 10 j 17:05	11°♁48'04	
					-12637 Feb 24 j 20:21	15°♁	
conjunction	-12643 Aug 07 j 08:19	18°♁01'15	1°47'10		-12637 May 25 j 05:06	0°♁	
minimum elong	-12643 Aug 07 j 08:18	18°♁01'15	1°47'44	retrograde	-12637 Jun 17 j 15:53	0°♁54'32	
max. Earth dist.	-12643 Aug 06 j 20:27	17°♁54'30	6.27193 AU		-12637 Jul 10 j 21:23	30°♁♁	
morning rise	-12643 Aug 19 j 16:52	20°♁49'58		opposition	-12637 Aug 15 j 11:40	25°♁52'58	-2°35'17
	-12643 Oct 01 j 15:27	0°♁		min. Earth dist.	-12637 Aug 15 j 06:12	25°♁54'50	4.14126 AU
retrograde	-12643 Dec 24 j 00:18	9°♁10'33		direct	-12637 Oct 13 j 22:06	20°♁49'36	
opposition	-12642 Feb 23 j 18:12	4°♁14'30	2°30'11		-12636 Jan 03 j 23:27	0°♁	
min. Earth dist.	-12642 Feb 23 j 20:58	4°♁13'37	4.24046 AU	evening set	-12636 Feb 19 j 20:51	9°♁59'14	
	-12642 Apr 05 j 06:04	30°♁♁					
direct	-12642 Apr 25 j 14:04	29°♁21'07		conjunction	-12636 Mar 04 j 11:40	13°♁50'49	-1°34'47
	-12642 May 15 j 21:46	0°♁		minimum elong	-12636 Mar 04 j 11:45	13°♁50'51	1°35'32
evening set	-12642 Aug 26 j 16:48	17°♁27'23		max. Earth dist.	-12636 Mar 04 j 13:41	13°♁50'57	6.17486 AU
				morning rise	-12636 Mar 18 j 00:20	16°♁50'13	

Attention, astronomical year style is used: The year -12636 in astronomical counting style is the year 12637 BCE in historical counting style.

	-12636 May 26 j 10:33	0°♄	retrograde	-12631 Dec 28 j 20:46	13°♊50'07	
retrograde	-12636 Jul 19 j 20:17	4°♄31'17	opposition	-12630 Feb 28 j 13:32	8°♊53'35	2°25'51
	-12636 Sep 13 j 12:04	30°♄♌	min. Earth dist.	-12630 Feb 28 j 16:14	8°♊52'43	4.23362 AU
opposition	-12636 Sep 16 j 19:08	29°♌33'29	direct	-12630 Apr 30 j 07:00	4°♊00'19	
min. Earth dist.	-12636 Sep 16 j 22:38	29°♌32'18	evening set	-12630 Aug 31 j 04:35	22°♊07'11	
direct	-12636 Nov 16 j 09:45	24°♌29'12				
	-12635 Jan 18 j 01:31	0°♄	conjunction	-12630 Sep 12 j 18:49	25°♊01'20	1°23'25
evening set	-12635 Mar 25 j 21:44	13°♄20'07	minimum elong	-12630 Sep 12 j 18:54	25°♊01'23	1°24'12
			max. Earth dist.	-12630 Sep 12 j 22:13	25°♊03'18	6.19550 AU
conjunction	-12635 Apr 08 j 07:23	16°♄20'48	morning rise	-12630 Sep 25 j 11:45	27°♊56'59	
minimum elong	-12635 Apr 08 j 07:28	16°♄20'51		-12630 Oct 04 j 11:48	0°♄	
max. Earth dist.	-12635 Apr 07 j 17:29	16°♄12'59	retrograde	-12629 Feb 01 j 21:14	17°♄02'27	
morning rise	-12635 Apr 21 j 14:01	19°♄19'49	opposition	-12629 Apr 04 j 08:00	12°♄02'15	1°29'25
	-12635 Jun 12 j 03:25	0°♌	min. Earth dist.	-12629 Apr 03 j 23:46	12°♄04'56	4.15885 AU
retrograde	-12635 Aug 21 j 03:19	7°♌03'26	direct	-12629 Jun 02 j 19:26	7°♄09'13	
opposition	-12635 Oct 19 j 14:07	2°♌09'04	evening set	-12629 Oct 03 j 09:54	25°♄32'52	
min. Earth dist.	-12635 Oct 20 j 02:46	2°♌04'54				
	-12635 Nov 05 j 12:42	30°♌♍	conjunction	-12629 Oct 16 j 11:02	28°♄34'55	0°32'31
direct	-12635 Dec 20 j 08:26	27°♍05'37	minimum elong	-12629 Oct 16 j 11:06	28°♄34'57	0°33'14
	-12634 Feb 03 j 06:19	0°♌	max. Earth dist.	-12629 Oct 17 j 04:29	28°♄45'05	6.12493 AU
asc. node	-12634 Apr 14 j 04:23	12°♌29'01		-12629 Oct 22 j 13:05	0°♌	
	-12634 Apr 25 j 16:16	15°♌	morning rise	-12629 Oct 29 j 15:42	1°♌38'58	
evening set	-12634 Apr 28 j 05:10	15°♌33'45		-12628 Jan 01 j 20:47	15°♌	
max. Earth dist.	-12634 May 10 j 09:30	18°♌16'53	retrograde	-12628 Mar 08 j 18:54	21°♌17'15	
			opposition	-12628 May 08 j 11:45	16°♌13'54	0°00'42
conjunction	-12634 May 11 j 07:04	18°♌28'57	min. Earth dist.	-12628 May 07 j 21:04	16°♌18'49	4.09764 AU
minimum elong	-12634 May 11 j 07:03	18°♌28'56	desc. node	-12628 May 11 j 09:57	15°♌50'30	
behind sun begin	-12634 May 10 j 23:02	18°♌24'29		-12628 May 17 j 19:37	15°♌♌	
behind sun end	-12634 May 11 j 15:03	18°♌33'24	direct	-12628 Jul 06 j 01:55	11°♌19'11	
morning rise	-12634 May 24 j 05:19	21°♌22'20		-12628 Aug 23 j 05:06	15°♌	
	-12634 Jul 04 j 05:15	0°♌	evening set	-12628 Nov 06 j 12:34	0°♌05'26	
retrograde	-12634 Sep 21 j 22:56	8°♌45'38		-12628 Nov 06 j 03:11	0°♌	
opposition	-12634 Nov 21 j 04:58	3°♌53'21				
min. Earth dist.	-12634 Nov 21 j 21:15	3°♌48'07	conjunction	-12628 Nov 19 j 23:51	3°♌14'01	-0°30'44
	-12634 Dec 26 j 00:55	30°♌♍	minimum elong	-12628 Nov 19 j 23:48	3°♌13'59	0°30'21
direct	-12633 Jan 22 j 13:41	28°♌52'16	max. Earth dist.	-12628 Nov 21 j 01:32	3°♌29'00	6.07916 AU
	-12633 Feb 19 j 06:19	0°♌	morning rise	-12628 Dec 03 j 14:31	6°♌24'21	
evening set	-12633 May 30 j 03:43	17°♌01'42	retrograde	-12627 Apr 13 j 18:43	26°♌15'44	
			opposition	-12627 Jun 12 j 14:43	21°♌10'56	-1°29'57
conjunction	-12633 Jun 11 j 20:07	19°♌51'48	min. Earth dist.	-12627 Jun 11 j 21:10	21°♌16'54	4.07222 AU
minimum elong	-12633 Jun 11 j 20:02	19°♌51'45	direct	-12627 Aug 09 j 19:09	16°♌13'09	
max. Earth dist.	-12633 Jun 10 j 19:09	19°♌37'49		-12627 Nov 19 j 16:13	0°♌	
morning rise	-12633 Jun 24 j 10:02	22°♌40'37	evening set	-12627 Dec 13 j 06:23	5°♌20'33	
	-12633 Jul 28 j 17:43	0°♌				
retrograde	-12633 Oct 24 j 01:50	10°♌06'08	conjunction	-12627 Dec 26 j 22:57	8°♌31'22	-1°23'29
opposition	-12633 Dec 24 j 01:17	5°♌14'09	minimum elong	-12627 Dec 26 j 22:50	8°♌31'18	1°23'36
min. Earth dist.	-12633 Dec 24 j 18:17	5°♌08'45	max. Earth dist.	-12627 Dec 27 j 23:16	8°♌45'30	6.07539 AU
direct	-12632 Feb 24 j 11:16	0°♌16'03	morning rise	-12626 Jan 09 j 17:20	11°♌43'01	
evening set	-12632 Jun 29 j 07:38	18°♌15'21		-12626 Apr 20 j 07:40	0°♌	
			retrograde	-12626 May 19 j 04:30	1°♌21'01	
conjunction	-12632 Jul 11 j 17:03	21°♌02'42		-12626 Jun 16 j 17:24	30°♌♍	
minimum elong	-12632 Jul 11 j 16:59	21°♌02'40	opposition	-12626 Jul 17 j 07:07	26°♌17'02	-2°27'59
max. Earth dist.	-12632 Jul 10 j 21:10	20°♌51'30	min. Earth dist.	-12626 Jul 16 j 18:10	26°♌21'29	4.09168 AU
morning rise	-12632 Jul 24 j 01:19	23°♌49'34	direct	-12626 Sep 13 j 21:26	21°♌15'52	
	-12632 Aug 21 j 11:31	0°♌		-12626 Dec 01 j 11:11	0°♌	
retrograde	-12632 Nov 24 j 20:26	11°♌37'45	evening set	-12625 Jan 19 j 12:47	10°♌32'24	
opposition	-12631 Jan 25 j 10:36	6°♌44'12				
min. Earth dist.	-12631 Jan 25 j 21:17	6°♌40'49	conjunction	-12625 Feb 02 j 05:49	13°♌41'24	-1°45'42
direct	-12631 Mar 28 j 04:31	1°♌49'03	minimum elong	-12625 Feb 02 j 05:47	13°♌41'24	1°46'15
	-12631 Jul 08 j 18:24	15°♌	max. Earth dist.	-12625 Feb 02 j 21:19	13°♌50'20	6.11516 AU
evening set	-12631 Jul 30 j 09:51	19°♌47'37		-12625 Feb 07 j 22:22	15°♌	
			morning rise	-12625 Feb 15 j 22:16	16°♌50'04	
conjunction	-12631 Aug 11 j 18:00	22°♌36'12		-12625 Apr 20 j 18:20	0°♌	
minimum elong	-12631 Aug 11 j 18:01	22°♌36'12	retrograde	-12625 Jun 22 j 11:00	5°♌51'31	
max. Earth dist.	-12631 Aug 11 j 08:26	22°♌30'44	opposition	-12625 Aug 20 j 06:23	0°♌50'28	-2°32'25
morning rise	-12631 Aug 24 j 02:56	25°♌25'18	min. Earth dist.	-12625 Aug 20 j 01:21	0°♌52'11	4.14853 AU
	-12631 Sep 13 j 17:22	0°♌		-12625 Aug 26 j 11:14	30°♌♌	



Attention, astronomical year style is used: The year -12625 in astronomical counting style is the year 12626 BCE in historical counting style.

direct	-12625 Oct 18 j 19:18	25° $\mathbb{M}$ 46'55		conjunction	-12619 Aug 16 j 04:51	27° $\mathbb{B}$ 14'23	1°45'12
	-12625 Dec 11 j 02:28	0° $\mathbb{A}$		minimum elong	-12619 Aug 16 j 04:52	27° $\mathbb{B}$ 14'24	1°45'52
evening set	-12624 Feb 24 j 23:16	14° $\mathbb{A}$ 55'08		max. Earth dist.	-12619 Aug 15 j 20:38	27° $\mathbb{B}$ 09'42	6.25672 AU
				morning rise	-12619 Aug 28 j 14:32	0° $\mathbb{II}$ 04'14	
conjunction	-12624 Mar 09 j 13:25	18° $\mathbb{A}$ 00'07	-1°30'26		-12619 Aug 28 j 07:05	0° $\mathbb{II}$	
minimum elong	-12624 Mar 09 j 13:30	18° $\mathbb{A}$ 00'10	1°31'13	retrograde	-12618 Jan 02 j 17:11	18° $\mathbb{II}$ 35'13	
max. Earth dist.	-12624 Mar 09 j 12:17	17° $\mathbb{A}$ 59'28	6.18402 AU	opposition	-12618 Mar 05 j 10:41	13° $\mathbb{II}$ 38'12	2°20'34
morning rise	-12624 Mar 23 j 01:31	21° $\mathbb{A}$ 03'53		min. Earth dist.	-12618 Mar 05 j 11:16	13° $\mathbb{II}$ 38'01	4.22180 AU
	-12624 May 03 j 18:32	0° $\mathbb{B}$		direct	-12618 May 04 j 22:45	8° $\mathbb{II}$ 45'07	
retrograde	-12624 Jul 24 j 12:08	9° $\mathbb{B}$ 20'02		evening set	-12618 Sep 04 j 19:21	26° $\mathbb{II}$ 54'31	
opposition	-12624 Sep 21 j 12:02	4° $\mathbb{B}$ 22'41	-1°45'23				
min. Earth dist.	-12624 Sep 21 j 17:07	4° $\mathbb{B}$ 20'59	4.22228 AU	conjunction	-12618 Sep 17 j 10:59	29° $\mathbb{II}$ 49'48	1°17'38
	-12624 Oct 31 j 09:18	30° $\mathbb{R}$ $\mathbb{A}$		minimum elong	-12618 Sep 17 j 11:04	29° $\mathbb{II}$ 49'51	1°18'26
direct	-12624 Nov 21 j 07:46	29° $\mathbb{A}$ 18'22		max. Earth dist.	-12618 Sep 17 j 16:33	29° $\mathbb{II}$ 53'02	6.18318 AU
	-12624 Dec 12 j 10:45	0° $\mathbb{B}$			-12618 Sep 18 j 04:36	0° $\mathbb{B}$	
evening set	-12623 Mar 30 j 18:05	18° $\mathbb{B}$ 06'01		morning rise	-12618 Sep 30 j 05:24	2° $\mathbb{B}$ 46'41	
				retrograde	-12617 Feb 06 j 23:57	21° $\mathbb{B}$ 58'19	
conjunction	-12623 Apr 13 j 02:57	21° $\mathbb{B}$ 05'56	-0°45'38	opposition	-12617 Apr 09 j 07:40	16° $\mathbb{B}$ 57'39	1°18'13
minimum elong	-12623 Apr 13 j 03:01	21° $\mathbb{B}$ 05'59	0°46'22	min. Earth dist.	-12617 Apr 08 j 23:07	17° $\mathbb{B}$ 00'27	4.14678 AU
max. Earth dist.	-12623 Apr 12 j 13:12	20° $\mathbb{B}$ 58'13	6.25780 AU	direct	-12617 Jun 07 j 16:29	12° $\mathbb{B}$ 04'30	
morning rise	-12623 Apr 26 j 08:21	24° $\mathbb{B}$ 04'06			-12617 Oct 06 j 00:12	0° $\mathbb{Q}$	
	-12623 May 23 j 16:11	0° $\mathbb{A}$		evening set	-12617 Oct 08 j 07:25	0° $\mathbb{Q}$ 31'57	
retrograde	-12623 Aug 25 j 15:47	11° $\mathbb{A}$ 43'11					
opposition	-12623 Oct 24 j 05:32	6° $\mathbb{A}$ 49'12	-0°26'30	conjunction	-12617 Oct 21 j 10:12	3° $\mathbb{Q}$ 35'14	0°23'47
min. Earth dist.	-12623 Oct 24 j 18:18	6° $\mathbb{A}$ 45'01	4.28886 AU	minimum elong	-12617 Oct 21 j 10:14	3° $\mathbb{Q}$ 35'15	0°24'26
direct	-12623 Dec 25 j 02:17	1° $\mathbb{A}$ 46'01		max. Earth dist.	-12617 Oct 22 j 05:11	3° $\mathbb{Q}$ 46'18	6.11452 AU
asc. node	-12622 Feb 21 j 06:54	6° $\mathbb{A}$ 27'47		morning rise	-12617 Nov 03 j 16:40	6° $\mathbb{Q}$ 40'32	
	-12622 Apr 08 j 21:54	15° $\mathbb{A}$			-12617 Dec 11 j 07:01	15° $\mathbb{Q}$	
evening set	-12622 May 02 j 19:50	20° $\mathbb{A}$ 10'38		retrograde	-12616 Mar 13 j 22:52	26° $\mathbb{Q}$ 22'48	
				desc. node	-12616 Mar 20 j 13:49	26° $\mathbb{Q}$ 18'35	
conjunction	-12622 May 15 j 20:13	23° $\mathbb{A}$ 04'57	0°12'24	opposition	-12616 May 13 j 12:45	21° $\mathbb{Q}$ 19'13	-0°12'59
minimum elong	-12622 May 15 j 20:12	23° $\mathbb{A}$ 04'57	0°11'55	min. Earth dist.	-12616 May 12 j 20:31	21° $\mathbb{Q}$ 24'39	4.09012 AU
behind sun begin	-12622 May 15 j 14:37	23° $\mathbb{A}$ 01'50		direct	-12616 Jul 10 j 23:27	16° $\mathbb{Q}$ 24'13	
behind sun end	-12622 May 16 j 01:48	23° $\mathbb{A}$ 08'03			-12616 Oct 19 j 16:19	0° $\mathbb{P}$	
max. Earth dist.	-12622 May 14 j 20:32	22° $\mathbb{A}$ 51'42	6.31264 AU	evening set	-12616 Nov 11 j 17:05	5° $\mathbb{P}$ 14'19	
morning rise	-12622 May 28 j 17:25	25° $\mathbb{A}$ 57'35					
	-12622 Jun 16 j 05:05	0° $\mathbb{H}$		conjunction	-12616 Nov 25 j 05:28	8° $\mathbb{P}$ 23'32	-0°39'28
retrograde	-12622 Sep 26 j 12:20	13° $\mathbb{H}$ 19'22		minimum elong	-12616 Nov 25 j 05:23	8° $\mathbb{P}$ 23'29	0°39'10
opposition	-12622 Nov 25 j 20:12	8° $\mathbb{H}$ 27'15	0°58'32	max. Earth dist.	-12616 Nov 26 j 07:50	8° $\mathbb{P}$ 38'57	6.07539 AU
min. Earth dist.	-12622 Nov 26 j 13:42	8° $\mathbb{H}$ 21'38	4.32794 AU	morning rise	-12616 Dec 08 j 21:06	11° $\mathbb{P}$ 34'26	
direct	-12621 Jan 27 j 06:49	3° $\mathbb{H}$ 26'30			-12615 Mar 19 j 21:51	0° $\mathbb{U}$	
evening set	-12621 Jun 03 j 14:21	21° $\mathbb{H}$ 33'36		retrograde	-12615 Apr 18 j 22:07	1° $\mathbb{U}$ 25'45	
max. Earth dist.	-12621 Jun 15 j 05:55	24° $\mathbb{H}$ 09'48	6.33253 AU		-12615 May 18 j 14:02	30° $\mathbb{R}$ $\mathbb{P}$	
				opposition	-12615 Jun 17 j 15:16	26° $\mathbb{P}$ 20'54	-1°40'57
conjunction	-12621 Jun 16 j 05:41	24° $\mathbb{H}$ 23'07	1°05'56	min. Earth dist.	-12615 Jun 16 j 21:48	26° $\mathbb{P}$ 26'52	4.07303 AU
minimum elong	-12621 Jun 16 j 05:36	24° $\mathbb{H}$ 23'04	1°05'51	direct	-12615 Aug 14 j 20:33	21° $\mathbb{P}$ 22'42	
morning rise	-12621 Jun 28 j 18:24	27° $\mathbb{H}$ 11'23			-12615 Oct 31 j 00:49	0° $\mathbb{U}$	
	-12621 Jul 11 j 12:29	0° $\mathbb{Y}$		evening set	-12615 Dec 18 j 14:34	10° $\mathbb{U}$ 31'47	
retrograde	-12621 Oct 28 j 14:40	14° $\mathbb{Y}$ 38'39					
opposition	-12621 Dec 28 j 17:18	9° $\mathbb{Y}$ 46'34	2°05'49	conjunction	-12614 Jan 01 j 07:33	13° $\mathbb{U}$ 42'28	-1°28'50
min. Earth dist.	-12621 Dec 29 j 09:13	9° $\mathbb{Y}$ 41'32	4.32833 AU	minimum elong	-12614 Jan 01 j 07:26	13° $\mathbb{U}$ 42'24	1°29'00
direct	-12620 Feb 29 j 00:57	4° $\mathbb{Y}$ 48'56		max. Earth dist.	-12614 Jan 02 j 09:18	13° $\mathbb{U}$ 57'25	6.08094 AU
evening set	-12620 Jul 03 j 16:54	22° $\mathbb{Y}$ 47'32		morning rise	-12614 Jan 15 j 01:45	16° $\mathbb{U}$ 53'45	
max. Earth dist.	-12620 Jul 15 j 06:02	25° $\mathbb{Y}$ 23'42	6.31199 AU		-12614 Mar 18 j 17:56	0° $\mathbb{M}$	
				retrograde	-12614 May 24 j 03:25	6° $\mathbb{M}$ 26'27	
conjunction	-12620 Jul 16 j 01:37	25° $\mathbb{Y}$ 34'46	1°40'13	opposition	-12614 Jul 22 j 04:38	1° $\mathbb{M}$ 22'47	-2°31'58
minimum elong	-12620 Jul 16 j 01:33	25° $\mathbb{Y}$ 34'44	1°40'33	min. Earth dist.	-12614 Jul 21 j 15:56	1° $\mathbb{M}$ 27'08	4.10184 AU
morning rise	-12620 Jul 28 j 09:36	28° $\mathbb{Y}$ 21'41			-12614 Aug 01 j 09:21	30° $\mathbb{R}$ $\mathbb{U}$	
	-12620 Aug 04 j 17:43	0° $\mathbb{B}$		direct	-12614 Sep 18 j 21:16	26° $\mathbb{U}$ 21'16	
	-12620 Oct 31 j 22:12	15° $\mathbb{B}$			-12614 Nov 06 j 09:53	0° $\mathbb{M}$	
retrograde	-12620 Nov 29 j 15:19	16° $\mathbb{B}$ 14'24			-12613 Jan 22 j 03:57	15° $\mathbb{M}$	
	-12620 Dec 28 j 10:05	15° $\mathbb{R}$ $\mathbb{B}$		evening set	-12613 Jan 24 j 18:49	15° $\mathbb{M}$ 35'47	
opposition	-12619 Jan 30 j 05:08	11° $\mathbb{B}$ 20'33	2°36'47				
min. Earth dist.	-12619 Jan 30 j 15:59	11° $\mathbb{B}$ 17'06	4.28922 AU	conjunction	-12613 Feb 07 j 11:20	18° $\mathbb{M}$ 44'00	-1°45'43
direct	-12619 Apr 01 j 20:47	6° $\mathbb{B}$ 25'42		minimum elong	-12613 Feb 07 j 11:20	18° $\mathbb{M}$ 44'00	1°46'19
	-12619 Jun 20 j 13:08	15° $\mathbb{B}$		max. Earth dist.	-12613 Feb 07 j 23:59	18° $\mathbb{M}$ 51'16	6.12888 AU
evening set	-12619 Aug 03 j 20:11	24° $\mathbb{B}$ 25'12		morning rise	-12613 Feb 21 j 03:22	21° $\mathbb{M}$ 51'48	

Attention, astronomical year style is used: The year -12613 in astronomical counting style is the year 12614 BCE in historical counting style.

	-12613 Mar 30 j 09:21	0°♈		evening set	-12607 Aug 08 j 05:38	28°♏59'19	
retrograde	-12613 Jun 27 j 03:02	10°♈44'47			-12607 Aug 12 j 15:59	0°♐	
opposition	-12613 Aug 24 j 23:36	5°♈44'09	-2°28'27				
min. Earth dist.	-12613 Aug 24 j 19:49	5°♈45'26	4.16445 AU	conjunction	-12607 Aug 20 j 14:52	1°♐49'25	1°43'11
direct	-12613 Oct 23 j 18:11	0°♈40'20		minimum elong	-12607 Aug 20 j 14:55	1°♐49'26	1°43'52
evening set	-12612 Feb 29 j 22:01	19°♈43'41		max. Earth dist.	-12607 Aug 20 j 07:48	1°♐45'21	6.24065 AU
				morning rise	-12607 Sep 02 j 01:33	4°♐40'21	
conjunction	-12612 Mar 14 j 11:36	22°♈47'42	-1°25'36	retrograde	-12606 Jan 07 j 16:13	23°♐19'30	
minimum elong	-12612 Mar 14 j 11:42	22°♈47'45	1°26'23	opposition	-12606 Mar 10 j 07:42	18°♐21'59	2°14'18
max. Earth dist.	-12612 Mar 14 j 09:29	22°♈46'30	6.20097 AU	min. Earth dist.	-12606 Mar 10 j 07:14	18°♐22'08	4.20493 AU
morning rise	-12612 Mar 27 j 22:40	25°♈50'22		direct	-12606 May 09 j 15:49	13°♐29'00	
	-12612 Apr 15 j 17:48	0°♉			-12606 Sep 01 j 23:41	0°♑	
retrograde	-12612 Jul 28 j 23:27	13°♉58'15		evening set	-12606 Sep 09 j 10:48	1°♑42'38	
opposition	-12612 Sep 26 j 01:00	9°♉01'26	-1°35'43				
min. Earth dist.	-12612 Sep 26 j 07:30	8°♉59'16	4.23847 AU	conjunction	-12606 Sep 22 j 04:04	4°♑39'19	1°11'14
direct	-12612 Nov 26 j 01:16	3°♉57'09		minimum elong	-12606 Sep 22 j 04:09	4°♑39'23	1°12'02
evening set	-12611 Apr 04 j 08:56	22°♉39'21		max. Earth dist.	-12606 Sep 22 j 12:34	4°♑44'15	6.16721 AU
				morning rise	-12606 Oct 05 j 00:14	7°♑37'41	
conjunction	-12611 Apr 17 j 16:38	25°♉38'15	-0°38'03	retrograde	-12605 Feb 12 j 02:42	26°♑56'21	
minimum elong	-12611 Apr 17 j 16:42	25°♉38'17	0°38'45	opposition	-12605 Apr 14 j 08:17	21°♑55'13	1°06'16
max. Earth dist.	-12611 Apr 16 j 23:22	25°♉28'34	6.27187 AU	min. Earth dist.	-12605 Apr 13 j 21:27	21°♑58'46	4.13309 AU
morning rise	-12611 Apr 30 j 21:03	28°♉35'24		direct	-12605 Jun 12 j 12:15	17°♑01'58	
	-12611 May 07 j 05:30	0°♊			-12605 Sep 18 j 17:38	0°♒	
	-12611 Aug 03 j 02:44	15°♊		evening set	-12605 Oct 13 j 06:36	5°♒33'38	
retrograde	-12611 Aug 29 j 23:30	16°♊09'18					
	-12611 Sep 25 j 21:06	15°♋		conjunction	-12605 Oct 26 j 10:55	8°♒38'05	0°14'44
opposition	-12611 Oct 28 j 15:48	11°♋15'38	-0°14'42	minimum elong	-12605 Oct 26 j 10:57	8°♒38'05	0°15'21
min. Earth dist.	-12611 Oct 29 j 06:21	11°♋10'53	4.29971 AU	behind sun begin	-12605 Oct 26 j 08:32	8°♒36'41	
direct	-12611 Dec 29 j 15:45	6°♋12'37		behind sun end	-12605 Oct 26 j 13:22	8°♒39'30	
asc. node	-12610 Jan 03 j 06:03	6°♋14'34		max. Earth dist.	-12605 Oct 27 j 07:47	8°♒50'15	6.10426 AU
	-12610 Mar 22 j 04:34	15°♋		morning rise	-12605 Nov 08 j 19:03	11°♒44'33	
evening set	-12610 May 07 j 04:31	24°♋33'26			-12605 Nov 23 j 00:21	15°♒	
max. Earth dist.	-12610 May 19 j 03:42	27°♋13'30	6.31946 AU	desc. node	-12604 Jan 27 j 15:27	27°♒35'35	
					-12604 Feb 16 j 23:18	0°♓	
conjunction	-12610 May 20 j 03:46	27°♋26'58	0°20'16	retrograde	-12604 Mar 19 j 03:24	1°♓30'18	
minimum elong	-12610 May 20 j 03:44	27°♋26'56	0°19'49		-12604 Apr 19 j 00:42	30°♓	
	-12610 May 31 j 13:49	0°♌		opposition	-12604 May 18 j 14:25	26°♓26'18	-0°26'43
morning rise	-12610 Jun 01 j 23:35	0°♌18'46		min. Earth dist.	-12604 May 17 j 21:09	26°♓32'07	4.08408 AU
retrograde	-12610 Sep 30 j 19:26	17°♌39'37		direct	-12604 Jul 15 j 23:43	21°♓30'53	
opposition	-12610 Nov 30 j 06:05	12°♌47'39	1°09'06		-12604 Sep 30 j 04:32	0°♐	
min. Earth dist.	-12610 Dec 01 j 00:10	12°♌41'52	4.33033 AU	evening set	-12604 Nov 16 j 22:40	10°♐24'07	
direct	-12609 Jan 31 j 16:55	7°♌47'17					
evening set	-12609 Jun 07 j 19:57	25°♌53'03		conjunction	-12604 Nov 30 j 12:08	13°♐33'48	-0°47'58
max. Earth dist.	-12609 Jun 19 j 08:12	28°♌27'37	6.33002 AU	minimum elong	-12604 Nov 30 j 12:03	13°♐33'45	0°47'44
				max. Earth dist.	-12604 Dec 01 j 16:53	13°♐50'36	6.07384 AU
conjunction	-12609 Jun 20 j 10:04	28°♌42'08	1°11'56	morning rise	-12604 Dec 14 j 04:24	16°♐45'01	
minimum elong	-12609 Jun 20 j 09:58	28°♌42'05	1°11'54		-12603 Feb 15 j 07:44	0°♑	
	-12609 Jun 26 j 04:51	0°♒		retrograde	-12603 Apr 24 j 00:51	6°♑34'46	
morning rise	-12609 Jul 02 j 22:04	1°♒30'09		opposition	-12603 Jun 22 j 15:14	1°♑29'55	-1°51'10
retrograde	-12609 Nov 02 j 02:17	19°♒00'50		min. Earth dist.	-12603 Jun 21 j 21:57	1°♑35'49	4.07605 AU
opposition	-12608 Jan 02 j 05:39	14°♒08'37	2°12'27		-12603 Jul 03 j 18:50	30°♒	
min. Earth dist.	-12608 Jan 02 j 22:18	14°♒03'20	4.32129 AU	direct	-12603 Aug 19 j 20:52	26°♒31'14	
direct	-12608 Mar 04 j 11:43	9°♒11'20			-12603 Oct 05 j 16:28	0°♓	
evening set	-12608 Jul 07 j 22:36	27°♒11'08		evening set	-12603 Dec 23 j 22:35	15°♓41'18	
conjunction	-12608 Jul 20 j 07:07	29°♒58'38	1°42'42	conjunction	-12602 Jan 06 j 15:31	18°♓51'39	-1°33'31
minimum elong	-12608 Jul 20 j 07:04	29°♒58'36	1°43'06	minimum elong	-12602 Jan 06 j 15:24	18°♓51'35	1°33'45
max. Earth dist.	-12608 Jul 19 j 13:03	29°♒48'24	6.30088 AU	max. Earth dist.	-12602 Jan 07 j 14:53	19°♓05'12	6.08752 AU
	-12608 Jul 20 j 09:32	0°♈		morning rise	-12602 Jan 20 j 09:44	22°♓02'32	
morning rise	-12608 Aug 01 j 14:54	2°♈45'55			-12602 Feb 25 j 09:34	0°♐	
	-12608 Oct 01 j 02:11	15°♈		retrograde	-12602 May 29 j 00:25	11°♐29'44	
retrograde	-12608 Dec 04 j 06:32	20°♈45'19		opposition	-12602 Jul 27 j 01:24	6°♐26'22	-2°34'53
opposition	-12607 Feb 03 j 21:24	15°♈51'08	2°37'25	min. Earth dist.	-12602 Jul 26 j 13:30	6°♐30'27	4.11128 AU
min. Earth dist.	-12607 Feb 04 j 06:45	15°♈48'10	4.27507 AU	direct	-12602 Sep 23 j 21:31	1°♐24'25	
	-12607 Feb 10 j 15:36	15°♈			-12601 Jan 04 j 16:49	15°♐	
direct	-12607 Apr 06 j 08:29	10°♈56'40		evening set	-12601 Jan 29 j 23:53	20°♐37'28	
	-12607 May 29 j 03:34	15°♈					

Attention, astronomical year style is used: The year -12601 in astronomical counting style is the year 12602 BCE in historical counting style.

conjunction	-12601 Feb 12 j 16:10	23° <b>ℓ</b> 45'04	-1°45'01	min. Earth dist.	-12595 Feb 09 j 01:56	20° <b>♊</b> 30'18	4.26596 AU
minimum elong	-12601 Feb 12 j 16:11	23° <b>ℓ</b> 45'04	1°45'39	direct	-12595 Apr 11 j 01:55	15° <b>♊</b> 38'38	
max. Earth dist.	-12601 Feb 13 j 03:40	23° <b>ℓ</b> 51'39	6.14026 AU		-12595 Jul 27 j 06:09	0° <b>♊</b>	
morning rise	-12601 Feb 26 j 07:25	26° <b>ℓ</b> 52'02		evening set	-12595 Aug 12 j 18:03	3° <b>♊</b> 42'20	
	-12601 Mar 12 j 05:46	0° <b>♊</b>					
retrograde	-12601 Jul 01 j 21:21	15° <b>♊</b> 37'56		conjunction	-12595 Aug 25 j 04:10	6° <b>♊</b> 33'10	1°40'33
opposition	-12601 Aug 29 j 16:59	10° <b>♊</b> 37'53	-2°23'35	minimum elong	-12595 Aug 25 j 04:13	6° <b>♊</b> 33'11	1°41'15
min. Earth dist.	-12601 Aug 29 j 15:13	10° <b>♊</b> 38'29	4.17654 AU	max. Earth dist.	-12595 Aug 25 j 00:38	6° <b>♊</b> 31'08	6.23123 AU
direct	-12601 Oct 28 j 16:14	5° <b>♊</b> 33'56		morning rise	-12595 Sep 06 j 15:44	9° <b>♊</b> 24'55	
evening set	-12600 Mar 05 j 21:27	24° <b>♊</b> 34'08		retrograde	-12594 Jan 12 j 15:17	28° <b>♊</b> 09'26	
				opposition	-12594 Mar 15 j 06:33	23° <b>♊</b> 11'26	2°07'04
conjunction	-12600 Mar 19 j 10:20	27° <b>♊</b> 37'24	-1°20'12	min. Earth dist.	-12594 Mar 15 j 04:09	23° <b>♊</b> 12'12	4.19597 AU
minimum elong	-12600 Mar 19 j 10:26	27° <b>♊</b> 37'28	1°21'00	direct	-12594 May 14 j 10:47	18° <b>♊</b> 18'34	
max. Earth dist.	-12600 Mar 19 j 05:07	27° <b>♊</b> 34'27	6.21278 AU		-12594 Aug 15 j 18:03	0° <b>♊</b>	
	-12600 Mar 29 j 22:49	0° <b>♊</b>		evening set	-12594 Sep 14 j 03:34	6° <b>♊</b> 33'34	
morning rise	-12600 Apr 01 j 20:38	0° <b>♊</b> 39'16					
retrograde	-12600 Aug 02 j 12:02	18° <b>♊</b> 41'06		conjunction	-12594 Sep 26 j 22:07	9° <b>♊</b> 31'12	1°04'23
opposition	-12600 Sep 30 j 15:48	13° <b>♊</b> 44'48	-1°25'25	minimum elong	-12594 Sep 26 j 22:13	9° <b>♊</b> 31'15	1°05'10
min. Earth dist.	-12600 Sep 30 j 23:33	13° <b>♊</b> 42'13	4.24902 AU	max. Earth dist.	-12594 Sep 27 j 08:02	9° <b>♊</b> 36'57	6.15958 AU
direct	-12600 Nov 30 j 19:32	8° <b>♊</b> 40'34		morning rise	-12594 Oct 09 j 20:00	12° <b>♊</b> 30'37	
evening set	-12599 Apr 09 j 02:16	27° <b>♊</b> 19'33			-12593 Jan 12 j 19:15	0° <b>♊</b>	
	-12599 Apr 21 j 01:22	0° <b>♊</b>		retrograde	-12593 Feb 17 j 03:44	1° <b>♊</b> 52'59	
					-12593 Mar 24 j 09:23	30° <b>♊</b>	
conjunction	-12599 Apr 22 j 08:56	0° <b>♊</b> 17'42	-0°30'04	opposition	-12593 Apr 19 j 07:35	26° <b>♊</b> 51'18	0°53'58
minimum elong	-12599 Apr 22 j 08:59	0° <b>♊</b> 17'44	0°30'46	min. Earth dist.	-12593 Apr 18 j 19:16	26° <b>♊</b> 55'21	4.12720 AU
max. Earth dist.	-12599 Apr 21 j 14:30	0° <b>♊</b> 07'22	6.28059 AU	direct	-12593 Jun 17 j 08:50	21° <b>♊</b> 57'46	
morning rise	-12599 May 05 j 12:10	3° <b>♊</b> 14'03			-12593 Aug 30 j 14:29	0° <b>♊</b>	
	-12599 Jul 02 j 19:17	15° <b>♊</b>		evening set	-12593 Oct 18 j 04:24	10° <b>♊</b> 31'11	
retrograde	-12599 Sep 03 j 12:03	20° <b>♊</b> 44'47					
opposition	-12599 Nov 02 j 05:57	15° <b>♊</b> 51'32	-0°02'29	conjunction	-12593 Oct 31 j 10:19	13° <b>♊</b> 36'26	0°05'48
min. Earth dist.	-12599 Nov 02 j 21:47	15° <b>♊</b> 46'24	4.30585 AU	minimum elong	-12593 Oct 31 j 10:19	13° <b>♊</b> 36'26	0°06'23
	-12599 Nov 08 j 21:13	15° <b>♊</b>		behind sun begin	-12593 Oct 31 j 02:34	13° <b>♊</b> 31'56	
asc. node	-12599 Nov 13 j 12:20	14° <b>♊</b> 24'52		behind sun end	-12593 Oct 31 j 18:04	13° <b>♊</b> 40'57	
direct	-12598 Jan 03 j 08:29	10° <b>♊</b> 48'52		max. Earth dist.	-12593 Nov 01 j 09:51	13° <b>♊</b> 50'10	6.10080 AU
	-12598 Feb 27 j 03:16	15° <b>♊</b>			-12593 Nov 06 j 09:29	15° <b>♊</b>	
evening set	-12598 May 11 j 17:11	29° <b>♊</b> 07'20		morning rise	-12593 Nov 13 j 19:44	16° <b>♊</b> 43'38	
	-12598 May 15 j 15:55	0° <b>♊</b>		desc. node	-12593 Dec 06 j 17:55	21° <b>♊</b> 55'25	
					-12592 Jan 16 j 06:58	0° <b>♊</b>	
conjunction	-12598 May 24 j 15:05	2° <b>♊</b> 00'11	0°28'19	retrograde	-12592 Mar 24 j 04:43	6° <b>♊</b> 30'06	
minimum elong	-12598 May 24 j 15:02	2° <b>♊</b> 00'09	0°27'56	opposition	-12592 May 23 j 12:38	1° <b>♊</b> 25'51	-0°39'51
max. Earth dist.	-12598 May 23 j 13:16	1° <b>♊</b> 45'45	6.32246 AU	min. Earth dist.	-12592 May 22 j 19:25	1° <b>♊</b> 31'38	4.08334 AU
morning rise	-12598 Jun 06 j 09:49	4° <b>♊</b> 51'25			-12592 Jun 03 j 07:23	30° <b>♊</b>	
retrograde	-12598 Oct 05 j 08:14	22° <b>♊</b> 12'42		direct	-12592 Jul 20 j 20:33	26° <b>♊</b> 30'00	
opposition	-12598 Dec 04 j 21:19	17° <b>♊</b> 20'48	1°19'46		-12592 Sep 05 j 16:16	0° <b>♊</b>	
min. Earth dist.	-12598 Dec 05 j 15:35	17° <b>♊</b> 14'58	4.33026 AU	evening set	-12592 Nov 22 j 01:00	15° <b>♊</b> 24'51	
direct	-12597 Feb 05 j 07:57	12° <b>♊</b> 20'51					
	-12597 Jun 10 j 08:00	0° <b>♊</b>		conjunction	-12592 Dec 05 j 15:03	18° <b>♊</b> 34'43	-0°55'50
evening set	-12597 Jun 12 j 06:20	0° <b>♊</b> 25'46		minimum elong	-12592 Dec 05 j 14:57	18° <b>♊</b> 34'40	0°55'40
				max. Earth dist.	-12592 Dec 06 j 18:00	18° <b>♊</b> 50'26	6.07556 AU
conjunction	-12597 Jun 24 j 19:29	3° <b>♊</b> 14'30	1°17'50	morning rise	-12592 Dec 19 j 08:04	21° <b>♊</b> 46'03	
minimum elong	-12597 Jun 24 j 19:23	3° <b>♊</b> 14'27	1°17'51		-12591 Jan 25 j 10:26	0° <b>♊</b>	
max. Earth dist.	-12597 Jun 23 j 19:27	3° <b>♊</b> 01'00	6.32690 AU	retrograde	-12591 Apr 28 j 21:37	11° <b>♊</b> 33'18	
morning rise	-12597 Jul 07 j 06:26	6° <b>♊</b> 02'14		opposition	-12591 Jun 27 j 10:56	6° <b>♊</b> 28'29	-2°00'13
retrograde	-12597 Nov 06 j 17:40	23° <b>♊</b> 36'22		min. Earth dist.	-12591 Jun 26 j 17:52	6° <b>♊</b> 34'20	4.08013 AU
opposition	-12596 Jan 06 j 23:09	18° <b>♊</b> 44'03	2°18'39	direct	-12591 Aug 24 j 17:46	1° <b>♊</b> 29'15	
min. Earth dist.	-12596 Jan 07 j 14:58	18° <b>♊</b> 39'03	4.31565 AU	evening set	-12591 Dec 29 j 02:17	20° <b>♊</b> 40'10	
direct	-12596 Mar 09 j 03:32	13° <b>♊</b> 47'16					
	-12596 Jul 04 j 09:04	0° <b>♊</b>		conjunction	-12590 Jan 11 j 19:26	23° <b>♊</b> 50'16	-1°37'21
evening set	-12596 Jul 12 j 09:07	1° <b>♊</b> 47'25		minimum elong	-12590 Jan 11 j 19:20	23° <b>♊</b> 50'13	1°37'40
				max. Earth dist.	-12590 Jan 12 j 17:52	24° <b>♊</b> 03'16	6.09347 AU
conjunction	-12596 Jul 24 j 17:10	4° <b>♊</b> 35'03	1°44'45	morning rise	-12590 Jan 25 j 13:16	27° <b>♊</b> 00'41	
minimum elong	-12596 Jul 24 j 17:07	4° <b>♊</b> 35'01	1°45'12		-12590 Feb 07 j 16:47	0° <b>♊</b>	
max. Earth dist.	-12596 Jul 23 j 23:22	4° <b>♊</b> 24'57	6.29312 AU		-12590 May 04 j 15:39	15° <b>♊</b>	
morning rise	-12596 Aug 06 j 01:03	7° <b>♊</b> 22'38		retrograde	-12590 Jun 02 j 20:06	16° <b>♊</b> 22'58	
	-12596 Sep 10 j 08:40	15° <b>♊</b>			-12590 Jul 01 j 15:49	15° <b>♊</b>	
retrograde	-12596 Dec 09 j 02:31	25° <b>♊</b> 27'25		opposition	-12590 Jul 31 j 18:28	11° <b>♊</b> 20'02	-2°36'37
opposition	-12595 Feb 08 j 18:01	20° <b>♊</b> 32'49	2°37'08	min. Earth dist.	-12590 Jul 31 j 08:51	11° <b>♊</b> 23'19	4.11850 AU

Attention, astronomical year style is used: The year -12590 in astronomical counting style is the year 12591 BCE in historical counting style.

direct	-12590 Sep 28 j 18:26	6°♄17'42			-12584 Dec 03 j 18:52	0°♄	
	-12590 Dec 16 j 18:39	15°♄		retrograde	-12584 Dec 13 j 22:22	0°♄09'28	
evening set	-12589 Feb 04 j 01:29	25°♄30'10			-12584 Dec 24 j 02:03	30°♄	
				opposition	-12583 Feb 13 j 14:48	25°♄14'28	2°35'49
conjunction	-12589 Feb 17 j 17:29	28°♄37'19	-1°43'36	min. Earth dist.	-12583 Feb 13 j 21:30	25°♄12'20	4.25927 AU
minimum elong	-12589 Feb 17 j 17:31	28°♄37'20	1°44'16	direct	-12583 Apr 15 j 19:56	20°♄20'37	
max. Earth dist.	-12589 Feb 18 j 01:55	28°♄42'09	6.14802 AU		-12583 Jul 09 j 11:20	0°♄	
	-12589 Feb 23 j 18:08	0°♄		evening set	-12583 Aug 17 j 06:31	8°♄24'34	
morning rise	-12589 Mar 03 j 08:16	1°♄43'44					
retrograde	-12589 Jul 06 j 11:07	20°♄24'06		conjunction	-12583 Aug 29 j 17:15	11°♄16'01	1°37'16
opposition	-12589 Sep 03 j 07:55	15°♄24'34	-2°17'53	minimum elong	-12583 Aug 29 j 17:19	11°♄16'03	1°38'01
min. Earth dist.	-12589 Sep 03 j 07:05	15°♄24'51	4.18419 AU	max. Earth dist.	-12583 Aug 29 j 14:26	11°♄14'24	6.22380 AU
direct	-12589 Nov 02 j 10:08	10°♄20'27		morning rise	-12583 Sep 11 j 06:02	14°♄08'36	
evening set	-12588 Mar 10 j 18:35	29°♄19'07			-12583 Dec 03 j 12:07	0°♄	
	-12588 Mar 13 j 19:24	0°♄		retrograde	-12582 Jan 17 j 13:45	2°♄57'54	
					-12582 Mar 04 j 03:05	30°♄	
conjunction	-12588 Mar 24 j 06:49	2°♄21'53	-1°14'21	opposition	-12582 Mar 20 j 04:30	27°♄59'20	1°59'01
minimum elong	-12588 Mar 24 j 06:55	2°♄21'56	1°15'07	min. Earth dist.	-12582 Mar 20 j 00:11	28°♄00'44	4.18813 AU
max. Earth dist.	-12588 Mar 23 j 23:04	2°♄17'30	6.21996 AU	direct	-12582 May 19 j 04:34	23°♄06'28	
morning rise	-12588 Apr 06 j 16:23	5°♄23'10			-12582 Jul 27 j 01:48	0°♄	
retrograde	-12588 Aug 07 j 02:17	23°♄20'52		evening set	-12582 Sep 18 j 19:42	11°♄22'52	
opposition	-12588 Oct 05 j 06:14	18°♄25'06	-1°14'41				
min. Earth dist.	-12588 Oct 05 j 15:59	18°♄21'52	4.25494 AU	conjunction	-12582 Oct 01 j 15:55	14°♄21'31	0°57'09
direct	-12588 Dec 05 j 13:47	13°♄21'02		minimum elong	-12582 Oct 01 j 16:00	14°♄21'35	0°57'55
	-12587 Apr 04 j 20:51	0°♄		max. Earth dist.	-12582 Oct 02 j 05:00	14°♄29'08	6.15221 AU
evening set	-12587 Apr 13 j 18:49	1°♄58'10		morning rise	-12582 Oct 14 j 15:16	17°♄22'00	
max. Earth dist.	-12587 Apr 26 j 04:56	4°♄44'48	6.28495 AU		-12582 Dec 14 j 00:48	0°♄	
				retrograde	-12581 Feb 22 j 05:17	6°♄48'06	
conjunction	-12587 Apr 27 j 00:32	4°♄55'46	-0°21'55	opposition	-12581 Apr 24 j 06:09	1°♄46'01	0°41'22
minimum elong	-12587 Apr 27 j 00:34	4°♄55'47	0°22'34	min. Earth dist.	-12581 Apr 23 j 17:33	1°♄50'11	4.12082 AU
morning rise	-12587 May 10 j 02:41	7°♄51'33			-12581 May 07 j 22:51	30°♄	
	-12587 Jun 12 j 11:01	15°♄		direct	-12581 Jun 22 j 04:25	26°♄52'18	
retrograde	-12587 Sep 07 j 23:43	25°♄20'44			-12581 Aug 05 j 12:47	0°♄	
asc. node	-12587 Sep 23 j 04:15	24°♄58'22		desc. node	-12581 Oct 16 j 05:27	13°♄52'58	
opposition	-12587 Nov 06 j 20:52	20°♄27'46	0°09'48		-12581 Oct 21 j 01:44	15°♄	
min. Earth dist.	-12587 Nov 07 j 12:27	20°♄22'42	4.30852 AU	evening set	-12581 Oct 23 j 02:15	15°♄28'07	
direct	-12586 Jan 08 j 00:13	15°♄25'27					
	-12586 Apr 29 j 07:02	0°♄		conjunction	-12581 Nov 05 j 09:22	18°♄34'09	-0°03'16
evening set	-12586 May 16 j 06:27	3°♄42'32		minimum elong	-12581 Nov 05 j 09:21	18°♄34'09	0°02'44
max. Earth dist.	-12586 May 28 j 01:52	6°♄20'41	6.32338 AU	behind sun begin	-12581 Nov 05 j 01:07	18°♄29'21	
				behind sun end	-12581 Nov 05 j 17:36	18°♄38'56	
conjunction	-12586 May 29 j 03:03	6°♄34'47	0°36'16	max. Earth dist.	-12581 Nov 06 j 08:19	18°♄47'33	6.09594 AU
minimum elong	-12586 May 29 j 03:00	6°♄34'45	0°35'57	morning rise	-12581 Nov 18 j 20:18	21°♄42'11	
morning rise	-12586 Jun 10 j 20:35	9°♄25'29			-12581 Dec 26 j 06:01	0°♄	
retrograde	-12586 Oct 09 j 22:54	26°♄47'53		retrograde	-12580 Mar 29 j 03:45	11°♄30'06	
opposition	-12586 Dec 09 j 13:58	21°♄56'04	1°30'04	opposition	-12580 May 28 j 10:20	6°♄25'37	-0°52'41
min. Earth dist.	-12586 Dec 10 j 08:15	21°♄50'15	4.32948 AU	min. Earth dist.	-12580 May 27 j 16:17	6°♄31'43	4.08058 AU
direct	-12585 Feb 10 j 01:18	16°♄56'38		direct	-12580 Jul 25 j 16:45	1°♄29'19	
	-12585 May 24 j 17:22	0°♄		evening set	-12580 Nov 27 j 03:56	20°♄26'58	
evening set	-12585 Jun 16 j 17:28	5°♄00'33					
max. Earth dist.	-12585 Jun 28 j 05:39	7°♄35'29	6.32422 AU	conjunction	-12580 Dec 10 j 18:51	23°♄37'10	-1°03'18
				minimum elong	-12580 Dec 10 j 18:45	23°♄37'06	1°03'12
conjunction	-12585 Jun 29 j 05:33	7°♄48'56	1°23'19	max. Earth dist.	-12580 Dec 11 j 22:24	23°♄53'13	6.07509 AU
minimum elong	-12585 Jun 29 j 05:27	7°♄48'52	1°23'25	morning rise	-12580 Dec 24 j 12:10	26°♄48'37	
morning rise	-12585 Jul 11 j 15:50	10°♄36'25			-12579 Jan 07 j 10:54	0°♄	
retrograde	-12585 Nov 11 j 10:00	28°♄13'54		retrograde	-12579 May 03 j 21:41	16°♄34'11	
opposition	-12584 Jan 11 j 18:00	23°♄21'17	2°24'02	opposition	-12579 Jul 02 j 07:11	11°♄29'31	-2°08'26
min. Earth dist.	-12584 Jan 12 j 08:08	23°♄16'49	4.31144 AU	min. Earth dist.	-12579 Jul 01 j 15:50	11°♄34'47	4.08212 AU
direct	-12584 Mar 13 j 19:53	18°♄24'55		direct	-12579 Aug 29 j 16:09	6°♄29'48	
	-12584 Jun 17 j 09:20	0°♄		evening set	-12578 Jan 03 j 07:18	25°♄42'23	
evening set	-12584 Jul 16 j 19:43	6°♄24'37					
				conjunction	-12578 Jan 17 j 00:28	28°♄52'18	-1°40'30
conjunction	-12584 Jul 29 j 03:41	9°♄12'21	1°46'09	minimum elong	-12578 Jan 17 j 00:24	28°♄52'15	1°40'52
minimum elong	-12584 Jul 29 j 03:39	9°♄12'20	1°46'39	max. Earth dist.	-12578 Jan 17 j 20:49	29°♄04'04	6.09747 AU
max. Earth dist.	-12584 Jul 28 j 13:13	9°♄04'08	6.28754 AU		-12578 Jan 21 j 21:38	0°♄	
morning rise	-12584 Aug 10 j 11:26	12°♄00'08		morning rise	-12578 Jan 30 j 18:12	2°♄02'24	
	-12584 Aug 23 j 21:44	15°♄			-12578 Apr 02 j 23:37	15°♄	

Attention, astronomical year style is used: The year -12578 in astronomical counting style is the year 12579 BCE in historical counting style.

retrograde	-12578 Jun 07 j 14:46	21° <b>ℓ</b> 20'18	min. Earth dist.	-12572 Jan 17 j 02:01	27° <b>Υ</b> 52'12	4.30938 AU
opposition	-12578 Aug 05 j 12:45	16° <b>ℓ</b> 17'44 -2°37'16	direct	-12572 Mar 18 j 13:11	23° <b>Υ</b> 00'37	
min. Earth dist.	-12578 Aug 05 j 03:33	16° <b>ℓ</b> 20'53 4.12429 AU		-12572 May 29 j 02:17	0° <b>♄</b>	
	-12578 Aug 15 j 02:38	15° <b>ℓ</b>	evening set	-12572 Jul 21 j 05:28	10° <b>♄</b> 59'06	
direct	-12578 Oct 03 j 14:38	11° <b>ℓ</b> 15'02				
	-12578 Nov 22 j 05:19	15° <b>ℓ</b>	conjunction	-12572 Aug 02 j 13:15	13° <b>♄</b> 46'54 1°46'52	
	-12577 Feb 07 j 04:14	0° <b>♄</b>	minimum elong	-12572 Aug 02 j 13:14	13° <b>♄</b> 46'54 1°47'23	
evening set	-12577 Feb 09 j 04:23	0° <b>♄</b> 27'16	max. Earth dist.	-12572 Aug 01 j 23:14	13° <b>♄</b> 38'56 6.28350 AU	
				-12572 Aug 07 j 21:49	15° <b>♄</b>	
conjunction	-12577 Feb 22 j 20:00	3° <b>♄</b> 33'59 -1°41'25	morning rise	-12572 Aug 14 j 21:20	16° <b>♄</b> 34'57	
minimum elong	-12577 Feb 22 j 20:02	3° <b>♄</b> 34'01 1°42'08		-12572 Oct 21 j 09:21	0° <b>♄</b>	
max. Earth dist.	-12577 Feb 23 j 01:35	3° <b>♄</b> 37'11 6.15507 AU	retrograde	-12572 Dec 18 j 16:07	4° <b>♄</b> 48'13	
morning rise	-12577 Mar 08 j 10:15	6° <b>♄</b> 39'53		-12571 Feb 17 j 11:09	30° <b>♄</b>	
retrograde	-12577 Jul 11 j 04:31	25° <b>♄</b> 14'56	opposition	-12571 Feb 18 j 10:02	29° <b>♄</b> 52'43 2°33'29	
opposition	-12577 Sep 08 j 00:46	20° <b>♄</b> 15'55 -2°11'12	min. Earth dist.	-12571 Feb 18 j 14:44	29° <b>♄</b> 51'13 4.25346 AU	
min. Earth dist.	-12577 Sep 08 j 02:16	20° <b>♄</b> 15'25 4.19165 AU	direct	-12571 Apr 20 j 10:53	24° <b>♄</b> 59'02	
direct	-12577 Nov 07 j 07:34	15° <b>♄</b> 11'41		-12571 Jun 18 j 05:32	0° <b>♄</b>	
	-12576 Feb 25 j 22:03	0° <b>♄</b>	evening set	-12571 Aug 21 j 17:34	13° <b>♄</b> 03'04	
evening set	-12576 Mar 15 j 16:58	4° <b>♄</b> 08'30				
			conjunction	-12571 Sep 03 j 05:23	15° <b>♄</b> 55'14 1°33'22	
conjunction	-12576 Mar 29 j 04:39	7° <b>♄</b> 10'45 -1°07'55	minimum elong	-12571 Sep 03 j 05:28	15° <b>♄</b> 55'17 1°34'08	
minimum elong	-12576 Mar 29 j 04:45	7° <b>♄</b> 10'48 1°08'41	max. Earth dist.	-12571 Sep 03 j 05:34	15° <b>♄</b> 55'21 6.21675 AU	
max. Earth dist.	-12576 Mar 28 j 20:01	7° <b>♄</b> 05'52 6.22744 AU	morning rise	-12571 Sep 15 j 19:10	18° <b>♄</b> 48'36	
morning rise	-12576 Apr 11 j 13:16	10° <b>♄</b> 11'23		-12571 Nov 07 j 21:40	0° <b>♄</b>	
retrograde	-12576 Aug 11 j 15:06	28° <b>♄</b> 04'46	retrograde	-12570 Jan 22 j 12:20	7° <b>♄</b> 42'29	
opposition	-12576 Oct 09 j 22:04	23° <b>♄</b> 09'27 -1°03'21	opposition	-12570 Mar 25 j 01:00	2° <b>♄</b> 43'27 1°50'14	
min. Earth dist.	-12576 Oct 10 j 07:46	23° <b>♄</b> 06'14 4.26186 AU	min. Earth dist.	-12570 Mar 24 j 20:33	2° <b>♄</b> 44'53 4.18006 AU	
direct	-12576 Dec 10 j 07:57	18° <b>♄</b> 05'33		-12570 Apr 16 j 09:49	30° <b>♄</b>	
	-12575 Mar 18 j 10:39	0° <b>♄</b>	direct	-12570 May 23 j 22:07	27° <b>♄</b> 50'33	
evening set	-12575 Apr 18 j 12:29	6° <b>♄</b> 40'16		-12570 Jun 29 j 21:05	0° <b>♄</b>	
			evening set	-12570 Sep 23 j 11:13	16° <b>♄</b> 08'42	
conjunction	-12575 May 01 j 16:55	9° <b>♄</b> 37'08 -0°13'33				
minimum elong	-12575 May 01 j 16:57	9° <b>♄</b> 37'08 0°14'10	conjunction	-12570 Oct 06 j 08:48	19° <b>♄</b> 08'22 0°49'37	
behind sun begin	-12575 May 01 j 13:02	9° <b>♄</b> 34'58	minimum elong	-12570 Oct 06 j 08:53	19° <b>♄</b> 08'24 0°50'21	
behind sun end	-12575 May 01 j 20:52	9° <b>♄</b> 39'19	max. Earth dist.	-12570 Oct 06 j 21:43	19° <b>♄</b> 15'52 6.14393 AU	
max. Earth dist.	-12575 Apr 30 j 19:56	9° <b>♄</b> 25'22 6.29111 AU	morning rise	-12570 Oct 19 j 09:59	22° <b>♄</b> 09'58	
morning rise	-12575 May 14 j 18:02	12° <b>♄</b> 32'13		-12570 Nov 23 j 19:00	0° <b>♄</b>	
	-12575 May 25 j 21:52	15° <b>♄</b>	retrograde	-12569 Feb 27 j 03:27	11° <b>♄</b> 40'04	
asc. node	-12575 Aug 01 j 18:26	27° <b>♄</b> 17'51	opposition	-12569 Apr 29 j 03:01	6° <b>♄</b> 37'33 0°28'35	
retrograde	-12575 Sep 12 j 14:14	29° <b>♄</b> 59'18	min. Earth dist.	-12569 Apr 28 j 13:00	6° <b>♄</b> 42'12 4.11292 AU	
opposition	-12575 Nov 11 j 13:07	25° <b>♄</b> 06'35 0°22'05	direct	-12569 Jun 26 j 21:29	1° <b>♄</b> 43'34	
min. Earth dist.	-12575 Nov 12 j 05:46	25° <b>♄</b> 01'12 4.31346 AU	desc. node	-12569 Aug 26 j 17:33	7° <b>♄</b> 21'56	
direct	-12574 Jan 12 j 19:36	20° <b>♄</b> 04'38		-12569 Oct 04 j 07:18	15° <b>♄</b>	
	-12574 Apr 11 j 08:10	0° <b>♄</b>	evening set	-12569 Oct 27 j 23:56	20° <b>♄</b> 22'47	
evening set	-12574 May 20 j 19:44	8° <b>♄</b> 19'10				
			conjunction	-12569 Nov 10 j 08:35	23° <b>♄</b> 29'45 -0°12'06	
conjunction	-12574 Jun 02 j 15:06	11° <b>♄</b> 10'44 0°44'00	minimum elong	-12569 Nov 10 j 08:33	23° <b>♄</b> 29'44 0°11'38	
minimum elong	-12574 Jun 02 j 15:02	11° <b>♄</b> 10'41 0°43'44	behind sun begin	-12569 Nov 10 j 02:42	23° <b>♄</b> 26'20	
max. Earth dist.	-12574 Jun 01 j 14:33	10° <b>♄</b> 57'00 6.32671 AU	behind sun end	-12569 Nov 10 j 14:23	23° <b>♄</b> 33'08	
morning rise	-12574 Jun 15 j 07:23	14° <b>♄</b> 00'46	max. Earth dist.	-12569 Nov 11 j 09:08	23° <b>♄</b> 44'06 6.08930 AU	
	-12574 Sep 14 j 11:21	0° <b>♄</b>	morning rise	-12569 Nov 23 j 20:39	26° <b>♄</b> 38'36	
retrograde	-12574 Oct 14 j 11:52	1° <b>♄</b> 23'33		-12569 Dec 08 j 12:26	0° <b>♄</b>	
	-12574 Nov 13 j 18:35	30° <b>♄</b>	retrograde	-12568 Apr 03 j 05:28	16° <b>♄</b> 28'35	
opposition	-12574 Dec 14 j 06:54	26° <b>♄</b> 31'39 1°39'46	opposition	-12568 Jun 02 j 07:33	11° <b>♄</b> 23'59 -1°05'05	
min. Earth dist.	-12574 Dec 14 j 23:43	26° <b>♄</b> 26'18 4.33120 AU	min. Earth dist.	-12568 Jun 01 j 14:36	11° <b>♄</b> 29'44 4.07584 AU	
direct	-12573 Feb 14 j 17:17	21° <b>♄</b> 32'38	direct	-12568 Jul 30 j 13:47	6° <b>♄</b> 27'16	
	-12573 May 06 j 06:09	0° <b>♄</b>	evening set	-12568 Dec 02 j 07:28	25° <b>♄</b> 28'42	
evening set	-12573 Jun 21 j 04:09	9° <b>♄</b> 34'32				
			conjunction	-12568 Dec 15 j 23:02	28° <b>♄</b> 39'17 -1°10'16	
conjunction	-12573 Jul 03 j 15:13	12° <b>♄</b> 22'26 1°28'15	minimum elong	-12568 Dec 15 j 22:55	28° <b>♄</b> 39'12 1°10'14	
minimum elong	-12573 Jul 03 j 15:08	12° <b>♄</b> 22'22 1°28'24	max. Earth dist.	-12568 Dec 17 j 01:32	28° <b>♄</b> 54'43 6.07261 AU	
max. Earth dist.	-12573 Jul 02 j 17:07	12° <b>♄</b> 09'59 6.32407 AU		-12568 Dec 21 j 17:38	0° <b>♄</b>	
morning rise	-12573 Jul 16 j 00:40	15° <b>♄</b> 09'33	morning rise	-12568 Dec 29 j 16:56	1° <b>♄</b> 51'02	
	-12573 Oct 03 j 07:53	0° <b>♄</b>	retrograde	-12567 May 08 j 20:22	21° <b>♄</b> 35'31	
retrograde	-12573 Nov 16 j 02:31	2° <b>♄</b> 49'27	opposition	-12567 Jul 07 j 03:40	16° <b>♄</b> 31'03 -2°15'41	
	-12573 Dec 30 j 16:36	30° <b>♄</b>	min. Earth dist.	-12567 Jul 06 j 12:05	16° <b>♄</b> 36'24 4.08251 AU	
opposition	-12572 Jan 16 j 12:06	27° <b>♄</b> 56'36 2°28'26	direct	-12567 Sep 03 j 12:40	11° <b>♄</b> 30'55	

Attention, astronomical year style is used: The year -12566 in astronomical counting style is the year 12567 BCE in historical counting style.

	-12566 Jan 05 j 05:12	0°♄	direct	-12561 Feb 19 j 09:58	26°♄06'15	
evening set	-12566 Jan 08 j 13:18	0°♄45'51		-12561 Apr 13 j 00:30	0°♄	
			evening set	-12561 Jun 25 j 13:35	14°♄06'51	
conjunction	-12566 Jan 22 j 06:27	3°♄55'38 -1°42'53				
minimum elong	-12566 Jan 22 j 06:23	3°♄55'36 1°43'18	conjunction	-12561 Jul 07 j 23:54	16°♄54'29 1°32'39	
max. Earth dist.	-12566 Jan 23 j 00:37	4°♄06'08 6.10061 AU	minimum elong	-12561 Jul 07 j 23:49	16°♄54'26 1°32'52	
morning rise	-12566 Feb 04 j 23:57	7°♄05'27	max. Earth dist.	-12561 Jul 07 j 02:25	16°♄42'23 6.32104 AU	
	-12566 Mar 12 j 21:17	15°♄	morning rise	-12561 Jul 20 j 08:45	19°♄41'27	
retrograde	-12566 Jun 12 j 11:38	26°♄19'13		-12561 Sep 08 j 02:15	0°♄	
opposition	-12566 Aug 10 j 07:59	21°♄17'05 -2°36'44	retrograde	-12561 Nov 20 j 17:46	7°♄25'05	
min. Earth dist.	-12566 Aug 10 j 00:41	21°♄19'35 4.12992 AU	opposition	-12560 Jan 21 j 05:54	2°♄31'55 2°32'01	
direct	-12566 Oct 08 j 13:55	16°♄14'05	min. Earth dist.	-12560 Jan 21 j 18:08	2°♄28'03 4.30338 AU	
	-12565 Jan 20 j 19:38	0°♄		-12560 Feb 11 j 07:01	30°♄	
evening set	-12565 Feb 14 j 08:05	5°♄25'55	direct	-12560 Mar 23 j 03:00	27°♄36'17	
				-12560 May 02 j 11:00	0°♄	
conjunction	-12565 Feb 27 j 23:31	8°♄32'14 -1°38'28		-12560 Jul 23 j 01:05	15°♄	
minimum elong	-12565 Feb 27 j 23:35	8°♄32'16 1°39'12	evening set	-12560 Jul 25 j 15:18	15°♄35'05	
max. Earth dist.	-12565 Feb 28 j 04:34	8°♄35'07 6.16289 AU				
morning rise	-12565 Mar 13 j 13:03	11°♄37'31	conjunction	-12560 Aug 06 j 23:12	18°♄23'15 1°46'57	
	-12565 Jul 07 j 15:54	0°♄	minimum elong	-12560 Aug 06 j 23:11	18°♄23'15 1°47'32	
retrograde	-12565 Jul 15 j 20:25	0°♄06'47	max. Earth dist.	-12560 Aug 06 j 11:12	18°♄16'25 6.27488 AU	
	-12565 Jul 24 j 01:04	30°♄	morning rise	-12560 Aug 19 j 07:33	21°♄11'47	
opposition	-12565 Sep 12 j 18:07	25°♄08'19 -2°03'31		-12560 Sep 29 j 10:01	0°♄	
min. Earth dist.	-12565 Sep 12 j 19:44	25°♄07'46 4.20086 AU	retrograde	-12560 Dec 23 j 14:09	9°♄30'48	
direct	-12565 Nov 12 j 03:45	20°♄04'03	opposition	-12559 Feb 23 j 06:38	4°♄34'51 2°30'14	
	-12564 Feb 07 j 09:22	0°♄	min. Earth dist.	-12559 Feb 23 j 11:13	4°♄33'24 4.24267 AU	
evening set	-12564 Mar 20 j 15:25	8°♄58'09		-12559 Apr 11 j 02:56	30°♄	
			direct	-12559 Apr 25 j 04:31	29°♄41'21	
conjunction	-12564 Apr 03 j 02:09	11°♄59'40 -1°00'59		-12559 May 09 j 04:27	0°♄	
minimum elong	-12564 Apr 03 j 02:15	11°♄59'43 1°01'46	evening set	-12559 Aug 26 j 06:49	17°♄47'19	
max. Earth dist.	-12564 Apr 02 j 14:40	11°♄53'11 6.23735 AU				
morning rise	-12564 Apr 16 j 10:00	14°♄59'34	conjunction	-12559 Sep 07 j 19:41	20°♄40'28 1°28'50	
	-12564 Jul 04 j 21:46	0°♄	minimum elong	-12559 Sep 07 j 19:46	20°♄40'31 1°29'37	
retrograde	-12564 Aug 16 j 05:45	2°♄47'58	max. Earth dist.	-12559 Sep 07 j 20:36	20°♄41'00 6.20476 AU	
	-12564 Sep 27 j 23:16	30°♄	morning rise	-12559 Sep 20 j 10:59	23°♄34'59	
opposition	-12564 Oct 14 j 14:10	27°♄53'03 -0°51'35		-12559 Oct 19 j 08:58	0°♄	
min. Earth dist.	-12564 Oct 15 j 01:35	27°♄49'17 4.27131 AU	retrograde	-12558 Jan 27 j 11:34	12°♄35'04	
direct	-12564 Dec 15 j 04:49	22°♄49'18	opposition	-12558 Mar 29 j 23:55	7°♄35'29 1°40'32	
	-12563 Feb 26 j 12:12	0°♄	min. Earth dist.	-12558 Mar 29 j 17:15	7°♄37'39 4.16775 AU	
evening set	-12563 Apr 23 j 04:50	11°♄20'29	direct	-12558 May 28 j 15:34	2°♄42'33	
max. Earth dist.	-12563 May 05 j 11:33	14°♄04'59 6.29927 AU	evening set	-12558 Sep 28 j 06:26	21°♄04'04	
conjunction	-12563 May 06 j 08:13	14°♄16'32 -0°05'09	conjunction	-12558 Oct 11 j 05:46	24°♄04'59 0°41'30	
minimum elong	-12563 May 06 j 08:13	14°♄16'33 0°05'43	minimum elong	-12558 Oct 11 j 05:51	24°♄05'02 0°42'14	
behind sun begin	-12563 May 06 j 00:28	14°♄12'13	max. Earth dist.	-12558 Oct 11 j 21:27	24°♄14'07 6.13256 AU	
behind sun end	-12563 May 06 j 15:59	14°♄20'52	morning rise	-12558 Oct 24 j 08:34	27°♄07'52	
	-12563 May 09 j 13:49	15°♄		-12558 Nov 05 j 21:36	0°♄	
morning rise	-12563 May 19 j 07:56	17°♄10'46		-12557 Jan 29 j 19:05	15°♄	
asc. node	-12563 Jun 10 j 00:23	21°♄54'10	retrograde	-12557 Mar 04 j 08:15	16°♄42'52	
	-12563 Jul 23 j 10:56	0°♄		-12557 Apr 06 j 15:25	15°♄	
retrograde	-12563 Sep 17 j 01:24	4°♄35'23	opposition	-12557 May 04 j 03:58	11°♄39'59 0°15'10	
	-12563 Nov 13 j 23:12	30°♄	min. Earth dist.	-12557 May 03 j 13:56	11°♄44'39 4.10340 AU	
opposition	-12563 Nov 16 j 04:19	29°♄42'53 0°34'09	direct	-12557 Jul 01 j 20:42	6°♄45'42	
min. Earth dist.	-12563 Nov 16 j 20:26	29°♄37'41 4.31958 AU	desc. node	-12557 Jul 06 j 02:37	6°♄47'33	
direct	-12562 Jan 17 j 11:43	24°♄41'18		-12557 Sep 14 j 21:02	15°♄	
	-12562 Mar 20 j 22:02	0°♄	evening set	-12557 Nov 02 j 02:26	25°♄28'55	
evening set	-12562 May 25 j 07:45	12°♄53'05				
max. Earth dist.	-12562 Jun 06 j 00:03	15°♄29'33 6.33007 AU	conjunction	-12557 Nov 15 j 12:21	28°♄36'45 -0°21'11	
			minimum elong	-12557 Nov 15 j 12:18	28°♄36'43 0°20'47	
conjunction	-12562 Jun 07 j 01:38	15°♄43'53 0°51'25	max. Earth dist.	-12557 Nov 16 j 13:48	28°♄51'37 6.08269 AU	
minimum elong	-12562 Jun 07 j 01:33	15°♄43'50 0°51'12		-12557 Nov 21 j 10:52	0°♄	
morning rise	-12562 Jun 19 j 16:50	18°♄33'17	morning rise	-12557 Nov 29 j 01:46	1°♄46'27	
	-12562 Aug 15 j 09:26	0°♄	retrograde	-12556 Apr 08 j 09:00	21°♄37'51	
retrograde	-12562 Oct 19 j 02:25	5°♄56'48	opposition	-12556 Jun 07 j 08:28	16°♄33'10 -1°17'24	
opposition	-12562 Dec 18 j 22:53	1°♄04'54 1°48'49	min. Earth dist.	-12556 Jun 06 j 14:12	16°♄39'22 4.07335 AU	
min. Earth dist.	-12562 Dec 19 j 16:39	0°♄59'16 4.33154 AU	direct	-12556 Aug 04 j 12:57	11°♄36'04	
	-12562 Dec 27 j 12:38	30°♄		-12556 Dec 04 j 17:33	0°♄	

Attention, astronomical year style is used: The year -12556 in astronomical counting style is the year 12557 BCE in historical counting style.

evening set	-12556 Dec 07 j 15:26	0°♌40'20			evening set	-12550 Feb 16 j 05:10	0°♐	
conjunction	-12556 Dec 21 j 07:27	3°♌51'00	-1°16'55		max. Earth dist.	-12550 May 29 j 13:54	17°♐12'50	
minimum elong	-12556 Dec 21 j 07:20	3°♌50'56	1°16'58			-12550 Jun 10 j 05:20	19°♐48'49	6.33148 AU
max. Earth dist.	-12556 Dec 22 j 09:51	4°♌06'22	6.07459 AU		conjunction	-12550 Jun 11 j 06:45	20°♐03'04	0°58'10
morning rise	-12555 Jan 04 j 01:35	7°♌02'41			minimum elong	-12550 Jun 11 j 06:40	20°♐03'01	0°58'01
retrograde	-12555 May 13 j 21:21	26°♌43'45			morning rise	-12550 Jun 23 j 20:45	22°♐51'56	
min. Earth dist.	-12555 Jul 11 j 11:58	21°♌44'30	4.08920 AU			-12550 Jul 27 j 05:51	0°♑	
opposition	-12555 Jul 12 j 02:40	21°♌39'28	-2°22'03		retrograde	-12550 Oct 23 j 10:36	10°♑17'16	
direct	-12555 Sep 08 j 14:43	16°♌38'53			opposition	-12550 Dec 23 j 10:01	5°♑25'22	1°56'50
evening set	-12555 Dec 18 j 12:39	0°♌			min. Earth dist.	-12550 Dec 24 j 03:24	5°♑19'52	4.32833 AU
	-12554 Jan 13 j 20:57	5°♌53'18			direct	-12549 Feb 23 j 18:57	0°♑27'10	
conjunction	-12554 Jan 27 j 14:05	9°♌02'31	-1°44'32		evening set	-12549 Jun 29 j 18:55	18°♑27'58	
minimum elong	-12554 Jan 27 j 14:02	9°♌02'30	1°45'01		max. Earth dist.	-12549 Jul 11 j 06:22	21°♑03'04	6.31326 AU
max. Earth dist.	-12554 Jan 28 j 08:44	9°♌13'16	6.11157 AU		conjunction	-12549 Jul 12 j 04:27	21°♑15'33	1°36'18
morning rise	-12554 Feb 10 j 06:59	12°♌11'34			minimum elong	-12549 Jul 12 j 04:22	21°♑15'30	1°36'34
	-12554 Feb 22 j 16:25	15°♌			morning rise	-12549 Jul 24 j 12:58	24°♑02'39	
	-12554 May 20 j 03:18	0°♍				-12549 Aug 20 j 21:21	0°♒	
retrograde	-12554 Jun 17 j 06:30	1°♍17'41			retrograde	-12549 Nov 25 j 09:02	11°♒51'52	
	-12554 Jul 15 j 03:34	30°♍			opposition	-12548 Jan 25 j 20:28	6°♒58'29	2°34'34
opposition	-12554 Aug 15 j 03:08	26°♍16'01	-2°35'00		min. Earth dist.	-12548 Jan 26 j 09:18	6°♒54'25	4.29163 AU
min. Earth dist.	-12554 Aug 14 j 20:08	26°♍18'25	4.14423 AU		direct	-12548 Mar 27 j 15:06	2°♒03'12	
direct	-12554 Oct 13 j 12:17	21°♍12'47				-12548 Jul 07 j 00:35	15°♒	
	-12553 Jan 01 j 14:41	0°♍			evening set	-12548 Jul 29 j 22:49	20°♒04'32	
evening set	-12553 Feb 19 j 10:04	10°♍20'32			conjunction	-12548 Aug 11 j 07:09	22°♒53'27	1°46'20
conjunction	-12553 Mar 05 j 00:42	13°♍25'52	-1°34'53		minimum elong	-12548 Aug 11 j 07:10	22°♒53'28	1°46'57
minimum elong	-12553 Mar 05 j 00:47	13°♍25'55	1°35'37		max. Earth dist.	-12548 Aug 10 j 20:15	22°♒47'14	6.26014 AU
max. Earth dist.	-12553 Mar 05 j 02:25	13°♍26'50	6.17926 AU		morning rise	-12548 Aug 23 j 16:10	25°♒42'52	
morning rise	-12553 Mar 18 j 13:36	16°♍30'08				-12548 Sep 11 j 21:26	0°♓	
	-12553 May 24 j 20:19	0°♓			retrograde	-12548 Dec 28 j 08:56	14°♓09'44	
retrograde	-12553 Jul 20 j 09:33	4°♓50'48			opposition	-12547 Feb 28 j 01:36	9°♓13'22	2°26'03
	-12553 Sep 16 j 11:36	30°♓			min. Earth dist.	-12547 Feb 28 j 03:58	9°♓12'37	4.22616 AU
opposition	-12553 Sep 17 j 09:00	29°♓52'49	-1°55'09		direct	-12547 Apr 29 j 17:31	4°♓20'08	
min. Earth dist.	-12553 Sep 17 j 12:35	29°♓51'36	4.21761 AU		evening set	-12547 Aug 30 j 19:44	22°♓30'10	
direct	-12553 Nov 17 j 00:44	24°♓48'28			conjunction	-12547 Sep 12 j 09:57	25°♓24'37	1°23'40
	-12552 Jan 16 j 15:07	0°♓			minimum elong	-12547 Sep 12 j 10:03	25°♓24'40	1°24'26
evening set	-12552 Mar 25 j 09:16	13°♓37'02			max. Earth dist.	-12547 Sep 12 j 13:28	25°♓26'39	6.18801 AU
conjunction	-12552 Apr 07 j 19:10	16°♓37'31	-0°53'55		morning rise	-12547 Sep 25 j 02:44	28°♓20'32	
minimum elong	-12552 Apr 07 j 19:15	16°♓37'34	0°54'41			-12547 Oct 02 j 08:54	0°♔	
max. Earth dist.	-12552 Apr 07 j 06:57	16°♓30'39	6.25332 AU		retrograde	-12546 Feb 01 j 14:13	17°♔28'33	
morning rise	-12552 Apr 21 j 01:44	19°♓36'18			opposition	-12546 Apr 03 j 23:18	12°♔28'28	1°30'03
	-12552 Jun 10 j 04:43	0°♔			min. Earth dist.	-12546 Apr 03 j 15:45	12°♔30'56	4.15192 AU
retrograde	-12552 Aug 20 j 13:48	7°♔18'08			direct	-12546 Jun 02 j 11:37	7°♔35'30	
opposition	-12552 Oct 19 j 01:23	2°♔23'40	-0°40'00		evening set	-12546 Oct 03 j 02:58	26°♔01'39	
min. Earth dist.	-12552 Oct 19 j 13:38	2°♔19'39	4.28501 AU		conjunction	-12546 Oct 16 j 03:59	29°♔03'56	0°32'59
	-12552 Nov 07 j 02:05	30°♔			minimum elong	-12546 Oct 16 j 04:03	29°♔03'58	0°33'41
direct	-12552 Dec 19 j 19:16	27°♔20'08			max. Earth dist.	-12546 Oct 16 j 22:00	29°♔14'26	6.11928 AU
	-12551 Jan 31 j 18:03	0°♔				-12546 Oct 20 j 04:06	0°♕	
asc. node	-12551 Apr 20 j 15:02	14°♔13'36			morning rise	-12546 Oct 29 j 08:38	2°♕08'13	
	-12551 Apr 24 j 03:26	15°♔				-12546 Dec 29 j 15:13	15°♕	
evening set	-12551 Apr 27 j 15:44	15°♔46'37			retrograde	-12545 Mar 09 j 12:18	21°♕48'14	
conjunction	-12551 May 10 j 17:39	18°♔41'41	0°03'01		opposition	-12545 May 09 j 05:20	16°♕44'59	0°01'27
minimum elong	-12551 May 10 j 17:39	18°♔41'42	0°02'29		min. Earth dist.	-12545 May 08 j 13:10	16°♕50'22	4.09398 AU
behind sun begin	-12551 May 10 j 09:34	18°♔37'12			desc. node	-12545 May 15 j 05:43	15°♕57'04	
behind sun end	-12551 May 11 j 01:43	18°♔46'11				-12545 May 22 j 15:30	15°♕	
max. Earth dist.	-12551 May 09 j 17:39	18°♔28'17	6.30956 AU		direct	-12545 Jul 06 j 18:19	11°♕50'25	
morning rise	-12551 May 23 j 16:18	21°♔35'02				-12545 Aug 20 j 04:23	15°♕	
	-12551 Jul 02 j 14:48	0°♖				-12545 Nov 04 j 13:42	0°♗	
retrograde	-12551 Sep 21 j 09:45	8°♖57'05			evening set	-12545 Nov 07 j 06:30	0°♗37'34	
opposition	-12551 Nov 20 j 14:26	4°♖04'48	0°45'25		conjunction	-12545 Nov 20 j 17:36	3°♗46'08	-0°30'13
min. Earth dist.	-12551 Nov 21 j 08:35	3°♖58'58	4.32574 AU		minimum elong	-12545 Nov 20 j 17:33	3°♗46'06	0°29'51
	-12551 Dec 27 j 21:15	30°♖			max. Earth dist.	-12545 Nov 21 j 20:21	4°♗01'46	6.07773 AU
direct	-12550 Jan 22 j 00:13	29°♖03'30						

Attention, astronomical year style is used: The year -12545 in astronomical counting style is the year 12546 BCE in historical counting style.

morning rise	-12545 Dec 04 j 08:06	6° $\mathbb{M}$ 56'28			-12539 Jun 14 j 18:30	0° $\mathbb{H}$	
retrograde	-12544 Apr 13 j 12:50	26° $\mathbb{M}$ 48'10		retrograde	-12539 Sep 25 j 21:44	13° $\mathbb{H}$ 30'09	
opposition	-12544 Jun 12 j 09:19	21° $\mathbb{M}$ 43'17	-1°29'11	opposition	-12539 Nov 25 j 05:08	8° $\mathbb{H}$ 38'04	0°56'52
min. Earth dist.	-12544 Jun 11 j 15:06	21° $\mathbb{M}$ 49'29	4.07314 AU	min. Earth dist.	-12539 Nov 25 j 23:21	8° $\mathbb{H}$ 32'14	4.32774 AU
direct	-12544 Aug 09 j 14:30	16° $\mathbb{M}$ 45'38		direct	-12538 Jan 26 j 15:16	3° $\mathbb{H}$ 37'12	
	-12544 Nov 16 j 23:43	0° $\mathbb{L}$		evening set	-12538 Jun 03 j 00:53	21° $\mathbb{H}$ 45'09	
evening set	-12544 Dec 12 j 23:17	5° $\mathbb{L}$ 51'45					
conjunction	-12544 Dec 26 j 15:49	9° $\mathbb{L}$ 02'23	-1°23'00	conjunction	-12538 Jun 15 j 16:21	24° $\mathbb{H}$ 34'51	1°04'54
minimum elong	-12544 Dec 26 j 15:42	9° $\mathbb{L}$ 02'19	1°23'06	minimum elong	-12538 Jun 15 j 16:16	24° $\mathbb{H}$ 34'48	1°04'50
max. Earth dist.	-12544 Dec 27 j 19:21	9° $\mathbb{L}$ 18'23	6.07866 AU	max. Earth dist.	-12538 Jun 14 j 13:37	24° $\mathbb{H}$ 19'51	6.33015 AU
morning rise	-12543 Jan 09 j 09:57	12° $\mathbb{L}$ 13'48		morning rise	-12538 Jun 28 j 05:30	27° $\mathbb{H}$ 23'22	
	-12543 Apr 14 j 22:51	0° $\mathbb{M}$			-12538 Jul 10 j 01:20	0° $\mathbb{Y}$	
retrograde	-12543 May 18 j 21:04	1° $\mathbb{M}$ 50'22		retrograde	-12538 Oct 28 j 02:18	14° $\mathbb{Y}$ 51'21	
	-12543 Jun 21 j 10:04	30° $\mathbb{R}$ $\mathbb{L}$		opposition	-12538 Dec 28 j 02:53	9° $\mathbb{Y}$ 59'21	2°04'37
min. Earth dist.	-12543 Jul 16 j 10:35	26° $\mathbb{L}$ 51'11	4.09704 AU	min. Earth dist.	-12538 Dec 28 j 20:27	9° $\mathbb{Y}$ 53'46	4.32408 AU
opposition	-12543 Jul 17 j 00:45	26° $\mathbb{L}$ 46'19	-2°27'19	direct	-12537 Feb 28 j 10:41	5° $\mathbb{Y}$ 01'32	
direct	-12543 Sep 13 j 14:34	21° $\mathbb{L}$ 45'19		evening set	-12537 Jul 04 j 04:57	23° $\mathbb{Y}$ 02'24	
	-12543 Nov 28 j 16:19	0° $\mathbb{M}$		conjunction	-12537 Jul 16 j 14:05	25° $\mathbb{Y}$ 50'00	1°39'37
evening set	-12542 Jan 19 j 03:43	10° $\mathbb{M}$ 58'53		minimum elong	-12537 Jul 16 j 14:01	25° $\mathbb{Y}$ 49'57	1°39'56
conjunction	-12542 Feb 01 j 20:26	14° $\mathbb{M}$ 07'29	-1°45'27	max. Earth dist.	-12537 Jul 15 j 18:22	25° $\mathbb{Y}$ 38'50	6.30640 AU
minimum elong	-12542 Feb 01 j 20:25	14° $\mathbb{M}$ 07'28	1°46'00	morning rise	-12537 Jul 28 j 22:09	28° $\mathbb{Y}$ 37'12	
max. Earth dist.	-12542 Feb 02 j 11:39	14° $\mathbb{M}$ 16'14	6.12193 AU		-12537 Aug 04 j 02:09	0° $\mathbb{B}$	
	-12542 Feb 05 j 15:50	15° $\mathbb{M}$			-12537 Oct 29 j 06:29	15° $\mathbb{B}$	
morning rise	-12542 Feb 15 j 13:00	17° $\mathbb{M}$ 15'50		retrograde	-12537 Nov 30 j 02:58	16° $\mathbb{B}$ 31'29	
	-12542 Apr 17 j 23:45	0° $\mathbb{J}$			-12536 Jan 01 j 04:47	15° $\mathbb{R}$ $\mathbb{B}$	
retrograde	-12542 Jun 22 j 00:31	6° $\mathbb{J}$ 14'57		opposition	-12536 Jan 30 j 16:21	11° $\mathbb{B}$ 37'46	2°36'20
opposition	-12542 Aug 19 j 21:38	1° $\mathbb{J}$ 13'44	-2°32'17	min. Earth dist.	-12536 Jan 31 j 03:08	11° $\mathbb{B}$ 34'21	4.28303 AU
min. Earth dist.	-12542 Aug 19 j 16:13	1° $\mathbb{J}$ 15'35	4.15601 AU	direct	-12536 Apr 01 j 07:06	6° $\mathbb{B}$ 42'56	
	-12542 Aug 29 j 00:17	30° $\mathbb{R}$ $\mathbb{M}$		evening set	-12536 Jun 18 j 11:10	15° $\mathbb{B}$	
direct	-12542 Oct 18 j 11:55	26° $\mathbb{M}$ 10'12			-12536 Aug 03 j 10:37	24° $\mathbb{B}$ 45'12	
	-12542 Dec 08 j 01:43	0° $\mathbb{J}$		conjunction	-12536 Aug 15 j 19:14	27° $\mathbb{B}$ 34'38	1°45'05
evening set	-12541 Feb 24 j 11:31	15° $\mathbb{J}$ 15'05		minimum elong	-12536 Aug 15 j 19:16	27° $\mathbb{B}$ 34'39	1°45'45
conjunction	-12541 Mar 10 j 01:45	18° $\mathbb{J}$ 19'43	-1°30'42	max. Earth dist.	-12536 Aug 15 j 10:05	27° $\mathbb{B}$ 29'24	6.25057 AU
minimum elong	-12541 Mar 10 j 01:50	18° $\mathbb{J}$ 19'46	1°31'27		-12536 Aug 26 j 09:30	0° $\mathbb{I}$	
max. Earth dist.	-12541 Mar 10 j 02:08	18° $\mathbb{J}$ 19'56	6.19164 AU	morning rise	-12536 Aug 28 j 04:59	0° $\mathbb{I}$ 24'45	
morning rise	-12541 Mar 23 j 13:42	21° $\mathbb{J}$ 23'07		retrograde	-12535 Jan 02 j 08:22	18° $\mathbb{I}$ 57'27	
	-12541 May 02 j 17:47	0° $\mathbb{Z}$		opposition	-12535 Mar 05 j 00:19	14° $\mathbb{I}$ 00'33	2°20'47
retrograde	-12541 Jul 25 j 00:24	9° $\mathbb{Z}$ 36'59		min. Earth dist.	-12535 Mar 05 j 01:23	14° $\mathbb{I}$ 00'13	4.21637 AU
opposition	-12541 Sep 22 j 00:33	4° $\mathbb{Z}$ 39'35	-1°46'06	direct	-12535 May 04 j 13:10	9° $\mathbb{I}$ 07'27	
min. Earth dist.	-12541 Sep 22 j 05:37	4° $\mathbb{Z}$ 37'53	4.22932 AU	evening set	-12535 Sep 04 j 11:11	27° $\mathbb{I}$ 18'54	
	-12541 Nov 05 j 17:39	30° $\mathbb{R}$ $\mathbb{J}$			-12535 Sep 16 j 02:02	0° $\mathbb{G}$	
direct	-12541 Nov 21 j 20:22	29° $\mathbb{J}$ 35'15		conjunction	-12535 Sep 17 j 02:47	0° $\mathbb{G}$ 14'20	1°17'55
	-12541 Dec 08 j 02:19	0° $\mathbb{Z}$		minimum elong	-12535 Sep 17 j 02:52	0° $\mathbb{G}$ 14'23	1°18'42
evening set	-12540 Mar 30 j 04:24	18° $\mathbb{Z}$ 20'16		max. Earth dist.	-12535 Sep 17 j 09:17	0° $\mathbb{G}$ 18'06	6.17915 AU
conjunction	-12540 Apr 12 j 13:17	21° $\mathbb{Z}$ 19'59	-0°46'27	morning rise	-12535 Sep 29 j 21:04	3° $\mathbb{G}$ 11'20	
minimum elong	-12540 Apr 12 j 13:21	21° $\mathbb{Z}$ 20'01	0°47'11	retrograde	-12534 Feb 06 j 14:46	22° $\mathbb{G}$ 23'47	
max. Earth dist.	-12540 Apr 11 j 21:40	21° $\mathbb{Z}$ 11'13	6.26346 AU	opposition	-12534 Apr 08 j 23:04	17° $\mathbb{G}$ 23'13	1°18'53
morning rise	-12540 Apr 25 j 18:59	24° $\mathbb{Z}$ 17'59		min. Earth dist.	-12534 Apr 08 j 13:24	17° $\mathbb{G}$ 26'22	4.14476 AU
	-12540 May 22 j 01:08	0° $\mathbb{X}$		direct	-12534 Jun 07 j 07:23	12° $\mathbb{G}$ 30'09	
retrograde	-12540 Aug 25 j 02:09	11° $\mathbb{X}$ 55'36		evening set	-12534 Oct 03 j 19:17	0° $\mathbb{Q}$	
opposition	-12540 Oct 23 j 15:44	7° $\mathbb{X}$ 01'31	-0°27'59		-12534 Oct 07 j 23:36	0° $\mathbb{Q}$ 57'58	
min. Earth dist.	-12540 Oct 24 j 05:30	6° $\mathbb{X}$ 57'00	4.29281 AU	conjunction	-12534 Oct 21 j 02:04	4° $\mathbb{Q}$ 01'07	0°24'21
direct	-12540 Dec 24 j 12:38	1° $\mathbb{X}$ 58'09		minimum elong	-12534 Oct 21 j 02:07	4° $\mathbb{Q}$ 01'09	0°25'00
asc. node	-12539 Feb 28 j 02:01	7° $\mathbb{X}$ 48'30		max. Earth dist.	-12534 Oct 21 j 21:27	4° $\mathbb{Q}$ 12'26	6.11443 AU
	-12539 Apr 07 j 09:39	15° $\mathbb{X}$		morning rise	-12534 Nov 03 j 08:18	7° $\mathbb{Q}$ 06'18	
evening set	-12539 May 02 j 05:30	20° $\mathbb{X}$ 21'51			-12534 Dec 08 j 21:00	15° $\mathbb{Q}$	
max. Earth dist.	-12539 May 14 j 06:32	23° $\mathbb{X}$ 02'56	6.31457 AU	retrograde	-12533 Mar 14 j 13:48	26° $\mathbb{Q}$ 48'09	
conjunction	-12539 May 15 j 06:18	23° $\mathbb{X}$ 16'14	0°11'17	desc. node	-12533 Mar 25 j 05:43	26° $\mathbb{Q}$ 37'08	
minimum elong	-12539 May 15 j 06:17	23° $\mathbb{X}$ 16'13	0°10'48	min. Earth dist.	-12533 May 13 j 11:49	21° $\mathbb{Q}$ 50'04	4.09169 AU
behind sun begin	-12539 May 15 j 00:07	23° $\mathbb{X}$ 12'47		opposition	-12533 May 14 j 04:32	21° $\mathbb{Q}$ 44'29	-0°11'59
behind sun end	-12539 May 15 j 12:26	23° $\mathbb{X}$ 19'39		direct	-12533 Jul 11 j 16:25	16° $\mathbb{Q}$ 49'29	
morning rise	-12539 May 28 j 03:34	26° $\mathbb{X}$ 08'50			-12533 Oct 18 j 11:05	0° $\mathbb{M}$	
				evening set	-12533 Nov 12 j 07:47	5° $\mathbb{M}$ 38'18	



Attention, astronomical year style is used: The year -12533 in astronomical counting style is the year 12534 BCE in historical counting style.

conjunction	-12533 Nov 25 j 19:59	8° $\mathbb{M}$ 47'16	-0°38'45			-12527 May 29 j 08:36	0° $\mathbb{H}$	
minimum elong	-12533 Nov 25 j 19:55	8° $\mathbb{M}$ 47'13	0°38'27	morning rise	-12527 Jun 01 j 15:17	0° $\mathbb{H}$ 43'49		
max. Earth dist.	-12533 Nov 27 j 00:22	9° $\mathbb{M}$ 03'50	6.07816 AU	retrograde	-12527 Sep 30 j 11:26	18° $\mathbb{H}$ 05'41		
morning rise	-12533 Dec 09 j 11:14	11° $\mathbb{M}$ 57'53		opposition	-12527 Nov 29 j 21:10	13° $\mathbb{H}$ 13'43	1°08'04	
	-12532 Mar 15 j 15:40	0° $\mathbb{L}$		min. Earth dist.	-12527 Nov 30 j 15:09	13° $\mathbb{H}$ 07'56	4.32733 AU	
retrograde	-12532 Apr 18 j 12:22	1° $\mathbb{L}$ 47'57		direct	-12526 Jan 31 j 07:08	8° $\mathbb{H}$ 13'16		
	-12532 May 21 j 23:10	30° $\mathbb{R}$ $\mathbb{M}$		evening set	-12526 Jun 07 j 12:27	26° $\mathbb{H}$ 20'22		
opposition	-12532 Jun 17 j 06:14	26° $\mathbb{M}$ 43'04	-1°39'53	max. Earth dist.	-12526 Jun 19 j 02:31	28° $\mathbb{H}$ 55'58	6.32791 AU	
min. Earth dist.	-12532 Jun 16 j 12:32	26° $\mathbb{M}$ 49'06	4.07639 AU					
direct	-12532 Aug 14 j 11:24	21° $\mathbb{M}$ 44'57		conjunction	-12526 Jun 20 j 02:54	29° $\mathbb{H}$ 09'40	1°11'19	
	-12532 Oct 28 j 18:21	0° $\mathbb{L}$		minimum elong	-12526 Jun 20 j 02:49	29° $\mathbb{H}$ 09'37	1°11'17	
evening set	-12532 Dec 18 j 03:15	10° $\mathbb{L}$ 52'04			-12526 Jun 23 j 20:32	0° $\mathbb{Y}$		
				morning rise	-12526 Jul 02 j 14:56	1° $\mathbb{Y}$ 57'49		
conjunction	-12532 Dec 31 j 19:50	14° $\mathbb{L}$ 02'28	-1°28'14	retrograde	-12526 Nov 01 j 18:12	19° $\mathbb{Y}$ 28'45		
minimum elong	-12532 Dec 31 j 19:44	14° $\mathbb{L}$ 02'24	1°28'24	opposition	-12525 Jan 01 j 21:13	14° $\mathbb{Y}$ 36'37	2°11'42	
max. Earth dist.	-12531 Jan 01 j 20:24	14° $\mathbb{L}$ 16'43	6.08400 AU	min. Earth dist.	-12525 Jan 02 j 13:36	14° $\mathbb{Y}$ 31'25	4.32029 AU	
morning rise	-12531 Jan 14 j 14:06	17° $\mathbb{L}$ 13'36		direct	-12525 Mar 05 j 03:39	9° $\mathbb{Y}$ 39'20		
	-12531 Mar 16 j 10:08	0° $\mathbb{M}$		evening set	-12525 Jul 08 j 16:00	27° $\mathbb{Y}$ 39'43		
retrograde	-12531 May 23 j 15:34	6° $\mathbb{M}$ 45'40			-12525 Jul 19 j 00:21	0° $\mathbb{B}$		
opposition	-12531 Jul 21 j 18:33	1° $\mathbb{M}$ 41'53	-2°31'21	max. Earth dist.	-12525 Jul 20 j 05:12	0° $\mathbb{B}$ 16'20	6.30110 AU	
min. Earth dist.	-12531 Jul 21 j 05:32	1° $\mathbb{M}$ 46'21	4.10404 AU					
	-12531 Aug 03 j 10:06	30° $\mathbb{R}$ $\mathbb{L}$		conjunction	-12525 Jul 21 j 00:27	0° $\mathbb{B}$ 27'15	1°42'21	
direct	-12531 Sep 18 j 11:16	26° $\mathbb{L}$ 40'25		minimum elong	-12525 Jul 21 j 00:23	0° $\mathbb{B}$ 27'13	1°42'44	
	-12531 Nov 03 j 15:33	0° $\mathbb{M}$		morning rise	-12525 Aug 02 j 08:25	3° $\mathbb{B}$ 14'34		
	-12530 Jan 20 j 07:39	15° $\mathbb{M}$			-12525 Sep 28 j 23:21	15° $\mathbb{B}$		
evening set	-12530 Jan 24 j 06:08	15° $\mathbb{M}$ 53'43		retrograde	-12525 Dec 04 j 22:17	21° $\mathbb{B}$ 13'15		
				opposition	-12524 Feb 04 j 12:49	16° $\mathbb{B}$ 19'06	2°37'06	
conjunction	-12530 Feb 06 j 22:48	19° $\mathbb{M}$ 01'55	-1°45'34	min. Earth dist.	-12524 Feb 04 j 22:12	16° $\mathbb{B}$ 16'08	4.27652 AU	
minimum elong	-12530 Feb 06 j 22:48	19° $\mathbb{M}$ 01'55	1°46'09		-12524 Feb 15 j 01:27	15° $\mathbb{R}$ $\mathbb{B}$		
max. Earth dist.	-12530 Feb 07 j 12:34	19° $\mathbb{M}$ 09'49	6.13000 AU	direct	-12524 Apr 06 j 00:55	11° $\mathbb{B}$ 24'33		
morning rise	-12530 Feb 20 j 14:44	22° $\mathbb{M}$ 09'39			-12524 May 25 j 12:54	15° $\mathbb{B}$		
	-12530 Mar 28 j 10:09	0° $\mathbb{Z}$		evening set	-12524 Aug 07 j 22:35	29° $\mathbb{B}$ 26'56		
retrograde	-12530 Jun 26 j 17:38	11° $\mathbb{Z}$ 03'06			-12524 Aug 10 j 08:38	0° $\mathbb{I}$		
opposition	-12530 Aug 24 j 13:06	6° $\mathbb{Z}$ 02'28	-2°28'37					
min. Earth dist.	-12530 Aug 24 j 09:52	6° $\mathbb{Z}$ 03'34	4.16427 AU	conjunction	-12524 Aug 20 j 07:53	2° $\mathbb{I}$ 16'55	1°43'11	
direct	-12530 Oct 23 j 07:19	0° $\mathbb{Z}$ 58'44		minimum elong	-12524 Aug 20 j 07:55	2° $\mathbb{I}$ 16'56	1°43'51	
evening set	-12529 Mar 01 j 09:46	20° $\mathbb{Z}$ 02'06		max. Earth dist.	-12524 Aug 20 j 01:58	2° $\mathbb{I}$ 13'32	6.24334 AU	
				morning rise	-12524 Sep 01 j 18:18	5° $\mathbb{I}$ 07'39		
conjunction	-12529 Mar 14 j 23:27	23° $\mathbb{Z}$ 06'15	-1°25'59	retrograde	-12523 Jan 07 j 06:08	23° $\mathbb{I}$ 45'05		
minimum elong	-12529 Mar 14 j 23:33	23° $\mathbb{Z}$ 06'18	1°26'45	opposition	-12523 Mar 09 j 22:23	18° $\mathbb{I}$ 47'42	2°14'35	
max. Earth dist.	-12529 Mar 14 j 20:33	23° $\mathbb{Z}$ 04'36	6.19941 AU	min. Earth dist.	-12523 Mar 09 j 21:46	18° $\mathbb{I}$ 47'54	4.20877 AU	
morning rise	-12529 Mar 28 j 10:50	26° $\mathbb{Z}$ 09'05		direct	-12523 May 09 j 07:34	13° $\mathbb{I}$ 54'44		
	-12529 Apr 14 j 19:17	0° $\mathbb{Z}$			-12523 Aug 30 j 20:00	0° $\mathbb{G}$		
retrograde	-12529 Jul 29 j 12:58	14° $\mathbb{Z}$ 18'17		evening set	-12523 Sep 09 j 02:27	2° $\mathbb{G}$ 07'05		
opposition	-12529 Sep 26 j 14:43	9° $\mathbb{Z}$ 21'23	-1°36'34					
min. Earth dist.	-12529 Sep 26 j 20:59	9° $\mathbb{Z}$ 19'18	4.23593 AU	conjunction	-12523 Sep 21 j 19:16	5° $\mathbb{G}$ 03'25	1°11'40	
direct	-12529 Nov 26 j 13:36	4° $\mathbb{Z}$ 17'06		minimum elong	-12523 Sep 21 j 19:22	5° $\mathbb{G}$ 03'29	1°12'27	
evening set	-12528 Apr 03 j 22:05	23° $\mathbb{Z}$ 00'24		max. Earth dist.	-12523 Sep 22 j 02:44	5° $\mathbb{G}$ 07'45	6.17178 AU	
				morning rise	-12523 Oct 04 j 15:11	8° $\mathbb{G}$ 01'27		
conjunction	-12528 Apr 17 j 06:05	25° $\mathbb{Z}$ 59'34	-0°38'45	retrograde	-12522 Feb 11 j 15:22	27° $\mathbb{G}$ 17'59		
minimum elong	-12528 Apr 17 j 06:09	25° $\mathbb{Z}$ 59'36	0°39'27	opposition	-12522 Apr 13 j 21:50	22° $\mathbb{G}$ 16'52	1°07'14	
max. Earth dist.	-12528 Apr 16 j 13:26	25° $\mathbb{Z}$ 50'13	6.26876 AU	min. Earth dist.	-12522 Apr 13 j 10:56	22° $\mathbb{G}$ 20'26	4.13792 AU	
morning rise	-12528 Apr 30 j 10:44	28° $\mathbb{Z}$ 56'58		direct	-12522 Jun 12 j 03:08	17° $\mathbb{G}$ 23'35		
	-12528 May 05 j 04:11	0° $\mathbb{X}$			-12522 Sep 16 j 18:02	0° $\mathbb{Q}$		
	-12528 Jul 29 j 12:12	15° $\mathbb{X}$		evening set	-12522 Oct 12 j 19:53	5° $\mathbb{Q}$ 53'23		
retrograde	-12528 Aug 29 j 15:28	16° $\mathbb{X}$ 32'16						
	-12528 Sep 29 j 19:38	15° $\mathbb{R}$ $\mathbb{X}$		conjunction	-12522 Oct 25 j 23:59	8° $\mathbb{Q}$ 57'29	0°15'35	
opposition	-12528 Oct 28 j 06:06	11° $\mathbb{X}$ 38'38	-0°15'49	minimum elong	-12522 Oct 26 j 00:01	8° $\mathbb{Q}$ 57'30	0°16'12	
min. Earth dist.	-12528 Oct 28 j 20:57	11° $\mathbb{X}$ 33'47	4.29631 AU	max. Earth dist.	-12522 Oct 26 j 21:46	9° $\mathbb{Q}$ 10'11	6.10899 AU	
direct	-12528 Dec 29 j 05:22	6° $\mathbb{X}$ 35'37		morning rise	-12522 Nov 08 j 07:37	12° $\mathbb{Q}$ 03'33		
asc. node	-12527 Jan 07 j 23:26	6° $\mathbb{X}$ 44'18			-12522 Nov 21 j 03:40	15° $\mathbb{Q}$		
	-12527 Mar 19 j 15:29	15° $\mathbb{X}$		desc. node	-12521 Feb 01 j 22:40	28° $\mathbb{Q}$ 40'15		
evening set	-12527 May 06 j 19:32	24° $\mathbb{X}$ 57'55			-12521 Feb 13 j 11:51	0° $\mathbb{M}$		
				retrograde	-12521 Mar 19 j 15:19	1° $\mathbb{M}$ 47'21		
conjunction	-12527 May 19 j 19:03	27° $\mathbb{X}$ 51'42	0°19'30		-12521 Apr 22 j 10:37	30° $\mathbb{R}$ $\mathbb{Q}$		
minimum elong	-12527 May 19 j 19:01	27° $\mathbb{X}$ 51'41	0°19'04	min. Earth dist.	-12521 May 18 j 10:05	26° $\mathbb{Q}$ 49'00	4.08823 AU	
max. Earth dist.	-12527 May 18 j 17:59	27° $\mathbb{X}$ 37'41	6.31605 AU	opposition	-12521 May 19 j 02:45	26° $\mathbb{Q}$ 43'24	-0°25'16	

Attention, astronomical year style is used: The year -12521 in astronomical counting style is the year 12522 BCE in historical counting style.

direct	-12521 Jul 16 j 12:34	21° $\Omega$ 48'03		conjunction	-12515 May 24 j 08:09	2° $\mathbb{X}$ 28'19	0°27'39
	-12521 Sep 29 j 06:56	0° $\mathbb{M}$		minimum elong	-12515 May 24 j 08:06	2° $\mathbb{X}$ 28'17	0°27'18
evening set	-12521 Nov 17 j 09:45	10° $\mathbb{M}$ 39'25		morning rise	-12515 Jun 06 j 03:06	5° $\mathbb{X}$ 19'45	
				retrograde	-12515 Oct 05 j 01:43	22° $\mathbb{X}$ 41'27	
conjunction	-12521 Nov 30 j 22:43	13° $\mathbb{M}$ 48'48	-0°46'59	opposition	-12515 Dec 04 j 13:48	17° $\mathbb{X}$ 49'35	1°18'51
minimum elong	-12521 Nov 30 j 22:38	13° $\mathbb{M}$ 48'44	0°46'46	min. Earth dist.	-12515 Dec 05 j 07:57	17° $\mathbb{X}$ 43'47	4.32959 AU
max. Earth dist.	-12521 Dec 02 j 01:25	14° $\mathbb{M}$ 04'23	6.07682 AU	direct	-12514 Feb 05 j 01:11	12° $\mathbb{X}$ 49'37	
morning rise	-12521 Dec 14 j 14:54	16° $\mathbb{M}$ 59'47			-12514 Jun 07 j 21:21	0° $\mathbb{Y}$	
	-12520 Feb 14 j 09:33	0° $\mathbb{L}$		evening set	-12514 Jun 11 j 23:54	0° $\mathbb{Y}$ 54'44	
retrograde	-12520 Apr 23 j 10:26	6° $\mathbb{L}$ 48'47					
min. Earth dist.	-12520 Jun 21 j 09:12	1° $\mathbb{L}$ 49'54	4.07748 AU	conjunction	-12514 Jun 24 j 13:09	3° $\mathbb{Y}$ 43'30	1°17'15
opposition	-12520 Jun 22 j 02:50	1° $\mathbb{L}$ 43'53	-1°49'53	minimum elong	-12514 Jun 24 j 13:04	3° $\mathbb{Y}$ 43'26	1°17'17
	-12520 Jul 05 j 02:07	30° $\mathbb{R}$ $\mathbb{M}$		max. Earth dist.	-12514 Jun 23 j 12:43	3° $\mathbb{Y}$ 29'46	6.32823 AU
direct	-12520 Aug 19 j 08:35	26° $\mathbb{M}$ 45'13		morning rise	-12514 Jul 07 j 00:21	6° $\mathbb{Y}$ 31'14	
	-12520 Oct 03 j 11:08	0° $\mathbb{L}$		retrograde	-12514 Nov 06 j 09:08	24° $\mathbb{Y}$ 04'15	
evening set	-12520 Dec 23 j 07:58	15° $\mathbb{L}$ 54'18		opposition	-12513 Jan 06 j 14:58	19° $\mathbb{Y}$ 11'52	2°17'53
				min. Earth dist.	-12513 Jan 07 j 05:58	19° $\mathbb{Y}$ 07'07	4.31886 AU
conjunction	-12519 Jan 06 j 00:57	19° $\mathbb{L}$ 04'38	-1°32'51	direct	-12513 Mar 09 j 19:32	14° $\mathbb{Y}$ 14'59	
minimum elong	-12519 Jan 06 j 00:51	19° $\mathbb{L}$ 04'35	1°33'06		-12513 Jul 03 j 01:25	0° $\mathbb{X}$	
max. Earth dist.	-12519 Jan 07 j 01:07	19° $\mathbb{L}$ 18'39	6.08735 AU	evening set	-12513 Jul 13 j 01:53	2° $\mathbb{X}$ 14'07	
morning rise	-12519 Jan 19 j 19:00	22° $\mathbb{L}$ 15'29					
	-12519 Feb 23 j 17:55	0° $\mathbb{M}$		conjunction	-12513 Jul 25 j 10:05	5° $\mathbb{X}$ 01'35	1°44'23
retrograde	-12519 May 28 j 13:23	11° $\mathbb{M}$ 43'38		minimum elong	-12513 Jul 25 j 10:02	5° $\mathbb{X}$ 01'34	1°44'50
opposition	-12519 Jul 26 j 13:23	6° $\mathbb{M}$ 40'12	-2°34'20	max. Earth dist.	-12513 Jul 24 j 17:46	4° $\mathbb{X}$ 52'20	6.29788 AU
min. Earth dist.	-12519 Jul 26 j 02:21	6° $\mathbb{M}$ 43'59	4.10936 AU	morning rise	-12513 Aug 06 j 17:45	7° $\mathbb{X}$ 48'56	
direct	-12519 Sep 23 j 09:30	1° $\mathbb{M}$ 38'19			-12513 Sep 08 j 22:24	15° $\mathbb{X}$	
	-12518 Jan 03 j 00:38	15° $\mathbb{M}$		retrograde	-12513 Dec 09 j 16:17	25° $\mathbb{X}$ 51'20	
evening set	-12518 Jan 29 j 09:52	20° $\mathbb{M}$ 51'45		opposition	-12512 Feb 09 j 08:06	20° $\mathbb{X}$ 56'49	2°36'49
				min. Earth dist.	-12512 Feb 09 j 16:34	20° $\mathbb{X}$ 54'09	4.27164 AU
conjunction	-12518 Feb 12 j 02:16	23° $\mathbb{M}$ 59'33	-1°44'57	direct	-12512 Apr 10 j 17:49	16° $\mathbb{X}$ 02'36	
minimum elong	-12518 Feb 12 j 02:17	23° $\mathbb{M}$ 59'34	1°45'33		-12512 Jul 25 j 04:02	0° $\mathbb{I}$	
max. Earth dist.	-12518 Feb 12 j 13:14	24° $\mathbb{M}$ 05'50	6.13662 AU	evening set	-12512 Aug 12 j 09:17	4° $\mathbb{I}$ 04'39	
morning rise	-12518 Feb 25 j 17:49	27° $\mathbb{M}$ 06'48					
	-12518 Mar 10 j 13:16	0° $\mathbb{X}$		conjunction	-12512 Aug 24 j 19:02	6° $\mathbb{I}$ 55'08	1°40'37
retrograde	-12518 Jul 01 j 09:24	15° $\mathbb{X}$ 54'50		minimum elong	-12512 Aug 24 j 19:05	6° $\mathbb{I}$ 55'10	1°41'19
opposition	-12518 Aug 29 j 05:50	10° $\mathbb{X}$ 54'40	-2°23'55	max. Earth dist.	-12512 Aug 24 j 13:33	6° $\mathbb{I}$ 51'59	6.23704 AU
min. Earth dist.	-12518 Aug 29 j 03:21	10° $\mathbb{X}$ 55'30	4.17164 AU	morning rise	-12512 Sep 06 j 06:30	9° $\mathbb{I}$ 46'35	
direct	-12518 Oct 28 j 03:07	5° $\mathbb{X}$ 50'42		retrograde	-12511 Jan 12 j 02:38	28° $\mathbb{I}$ 28'34	
evening set	-12517 Mar 06 j 09:33	24° $\mathbb{X}$ 52'40		opposition	-12511 Mar 14 j 18:44	23° $\mathbb{I}$ 30'38	2°07'32
				min. Earth dist.	-12511 Mar 14 j 16:28	23° $\mathbb{I}$ 31'22	4.20127 AU
conjunction	-12517 Mar 19 j 22:39	27° $\mathbb{X}$ 56'17	-1°20'37	direct	-12511 May 13 j 23:55	18° $\mathbb{I}$ 37'42	
minimum elong	-12517 Mar 19 j 22:45	27° $\mathbb{X}$ 56'21	1°21'24		-12511 Aug 13 j 20:48	0° $\mathbb{O}$	
max. Earth dist.	-12517 Mar 19 j 17:25	27° $\mathbb{X}$ 53'20	6.20714 AU	evening set	-12511 Sep 13 j 16:29	6° $\mathbb{O}$ 51'15	
	-12517 Mar 29 j 01:21	0° $\mathbb{Z}$					
morning rise	-12517 Apr 02 j 09:16	0° $\mathbb{Z}$ 58'32		conjunction	-12511 Sep 26 j 10:52	9° $\mathbb{O}$ 48'36	1°05'01
retrograde	-12517 Aug 03 j 04:36	19° $\mathbb{Z}$ 02'52		minimum elong	-12511 Sep 26 j 10:58	9° $\mathbb{O}$ 48'39	1°05'47
opposition	-12517 Oct 01 j 06:28	14° $\mathbb{Z}$ 06'31	-1°26'16	max. Earth dist.	-12511 Sep 26 j 21:12	9° $\mathbb{O}$ 54'35	6.16393 AU
min. Earth dist.	-12517 Oct 01 j 14:41	14° $\mathbb{Z}$ 03'47	4.24317 AU	morning rise	-12511 Oct 09 j 08:13	12° $\mathbb{O}$ 47'39	
direct	-12517 Dec 01 j 09:30	9° $\mathbb{Z}$ 02'18			-12510 Jan 09 j 19:12	0° $\mathbb{Q}$	
evening set	-12516 Apr 08 j 16:49	27° $\mathbb{Z}$ 43'21		retrograde	-12510 Feb 16 j 15:20	2° $\mathbb{Q}$ 08'21	
	-12516 Apr 18 j 21:13	0° $\mathbb{W}$			-12510 Mar 26 j 07:58	30° $\mathbb{R}$ $\mathbb{O}$	
				opposition	-12510 Apr 18 j 18:52	27° $\mathbb{O}$ 06'51	0°55'15
conjunction	-12516 Apr 21 j 23:54	0° $\mathbb{W}$ 41'54	-0°30'42	min. Earth dist.	-12510 Apr 18 j 07:50	27° $\mathbb{O}$ 10'28	4.13020 AU
minimum elong	-12516 Apr 21 j 23:57	0° $\mathbb{W}$ 41'55	0°31'23	direct	-12510 Jun 16 j 21:01	22° $\mathbb{O}$ 13'24	
max. Earth dist.	-12516 Apr 21 j 06:09	0° $\mathbb{W}$ 31'56	6.27511 AU		-12510 Aug 28 j 18:18	0° $\mathbb{Q}$	
morning rise	-12516 May 05 j 03:29	3° $\mathbb{W}$ 38'38		evening set	-12510 Oct 17 j 15:44	10° $\mathbb{Q}$ 45'59	
	-12516 Jun 29 j 22:24	15° $\mathbb{W}$					
retrograde	-12516 Sep 03 j 03:47	21° $\mathbb{W}$ 11'16		conjunction	-12510 Oct 30 j 21:09	13° $\mathbb{Q}$ 51'00	0°06'49
opposition	-12516 Nov 01 j 21:51	16° $\mathbb{W}$ 17'55	-0°03'27	minimum elong	-12510 Oct 30 j 21:10	13° $\mathbb{Q}$ 51'01	0°07'24
min. Earth dist.	-12516 Nov 02 j 12:27	16° $\mathbb{W}$ 13'10	4.30148 AU	behind sun begin	-12510 Oct 30 j 13:40	13° $\mathbb{Q}$ 46'39	
	-12516 Nov 12 j 00:04	15° $\mathbb{R}$ $\mathbb{W}$		behind sun end	-12510 Oct 31 j 04:40	13° $\mathbb{Q}$ 55'23	
asc. node	-12516 Nov 17 j 14:33	14° $\mathbb{W}$ 18'48		max. Earth dist.	-12510 Oct 31 j 18:13	14° $\mathbb{Q}$ 03'18	6.10210 AU
direct	-12515 Jan 02 j 22:33	11° $\mathbb{W}$ 15'13			-12510 Nov 04 j 19:21	15° $\mathbb{Q}$	
	-12515 Feb 23 j 13:50	15° $\mathbb{W}$		morning rise	-12510 Nov 13 j 06:27	16° $\mathbb{Q}$ 58'04	
evening set	-12515 May 11 j 09:59	29° $\mathbb{W}$ 35'15		desc. node	-12510 Dec 12 j 19:19	23° $\mathbb{Q}$ 36'06	
	-12515 May 13 j 06:34	0° $\mathbb{X}$			-12509 Jan 14 j 08:24	0° $\mathbb{M}$	
max. Earth dist.	-12515 May 23 j 07:34	2° $\mathbb{X}$ 14'34	6.31984 AU	retrograde	-12509 Mar 24 j 14:07	6° $\mathbb{M}$ 44'29	

Attention, astronomical year style is used: The year -12509 in astronomical counting style is the year 12510 BCE in historical counting style.

opposition	-12509 May 23 j 23:52	1° $\mathbb{M}$ 40'18	-0°38'16	conjunction	-12503 May 28 j 20:00	7° $\mathbb{H}$ 03'03	0°35'36
min. Earth dist.	-12509 May 23 j 06:21	1° $\mathbb{M}$ 46'12	4.08280 AU	minimum elong	-12503 May 28 j 19:57	7° $\mathbb{H}$ 03'01	0°35'17
	-12509 Jun 05 j 16:22	30° $\mathbb{R}$ 0		max. Earth dist.	-12503 May 27 j 19:20	6° $\mathbb{H}$ 49'15	6.32469 AU
direct	-12509 Jul 21 j 07:26	26° $\mathbb{Q}$ 44'33		morning rise	-12503 Jun 10 j 13:40	9° $\mathbb{H}$ 53'45	
	-12509 Sep 04 j 09:16	0° $\mathbb{M}$		retrograde	-12503 Oct 09 j 13:24	27° $\mathbb{H}$ 15'12	
evening set	-12509 Nov 22 j 11:26	15° $\mathbb{M}$ 39'35		opposition	-12503 Dec 09 j 05:24	22° $\mathbb{H}$ 23'18	1°29'05
				min. Earth dist.	-12503 Dec 09 j 22:42	22° $\mathbb{H}$ 17'47	4.33175 AU
conjunction	-12509 Dec 06 j 01:29	18° $\mathbb{M}$ 49'31	-0°54'50	direct	-12502 Feb 09 j 16:14	17° $\mathbb{H}$ 23'42	
minimum elong	-12509 Dec 06 j 01:23	18° $\mathbb{M}$ 49'28	0°54'40		-12502 May 22 j 06:54	0° $\mathbb{Y}$	
max. Earth dist.	-12509 Dec 07 j 05:08	19° $\mathbb{M}$ 05'40	6.07343 AU	evening set	-12502 Jun 16 j 09:54	5° $\mathbb{Y}$ 26'58	
morning rise	-12509 Dec 19 j 18:11	22° $\mathbb{M}$ 00'53					
	-12508 Jan 24 j 15:31	0° $\mathbb{Q}$		conjunction	-12502 Jun 28 j 22:05	8° $\mathbb{Y}$ 15'15	1°22'43
retrograde	-12508 Apr 28 j 11:22	11° $\mathbb{Q}$ 49'45		minimum elong	-12502 Jun 28 j 21:59	8° $\mathbb{Y}$ 15'12	1°22'49
opposition	-12508 Jun 26 j 23:34	6° $\mathbb{Q}$ 44'58	-1°59'01	max. Earth dist.	-12502 Jun 27 j 22:32	8° $\mathbb{Y}$ 02'01	6.32730 AU
min. Earth dist.	-12508 Jun 26 j 07:24	6° $\mathbb{Q}$ 50'30	4.07660 AU	morning rise	-12502 Jul 11 j 08:22	11° $\mathbb{Y}$ 02'38	
direct	-12508 Aug 24 j 06:33	1° $\mathbb{Q}$ 45'53		retrograde	-12502 Nov 11 j 01:02	28° $\mathbb{Y}$ 38'28	
evening set	-12508 Dec 28 j 13:24	20° $\mathbb{Q}$ 57'46		opposition	-12501 Jan 11 j 08:20	23° $\mathbb{Y}$ 45'54	2°23'16
				min. Earth dist.	-12501 Jan 11 j 23:37	23° $\mathbb{Y}$ 41'04	4.31484 AU
conjunction	-12507 Jan 11 j 06:32	24° $\mathbb{Q}$ 08'05	-1°36'45	direct	-12501 Mar 14 j 12:06	18° $\mathbb{Y}$ 49'23	
minimum elong	-12507 Jan 11 j 06:26	24° $\mathbb{Q}$ 08'02	1°37'04		-12501 Jun 16 j 02:29	0° $\mathbb{B}$	
max. Earth dist.	-12507 Jan 12 j 04:53	24° $\mathbb{Q}$ 21'02	6.08893 AU	evening set	-12501 Jul 17 j 11:23	6° $\mathbb{B}$ 48'12	
morning rise	-12507 Jan 25 j 00:37	27° $\mathbb{Q}$ 18'49					
	-12507 Feb 05 j 19:29	0° $\mathbb{M}$		conjunction	-12501 Jul 29 j 19:16	9° $\mathbb{B}$ 35'47	1°45'50
	-12507 Apr 30 j 16:57	15° $\mathbb{M}$		minimum elong	-12501 Jul 29 j 19:15	9° $\mathbb{B}$ 35'46	1°46'19
retrograde	-12507 Jun 02 j 09:35	16° $\mathbb{M}$ 43'32		max. Earth dist.	-12501 Jul 29 j 03:00	9° $\mathbb{B}$ 26'33	6.29084 AU
	-12507 Jul 04 j 18:34	15° $\mathbb{R}$ $\mathbb{M}$		morning rise	-12501 Aug 11 j 03:08	12° $\mathbb{B}$ 23'27	
opposition	-12507 Jul 31 j 08:36	11° $\mathbb{M}$ 40'31	-2°36'11		-12501 Aug 22 j 19:15	15° $\mathbb{B}$	
min. Earth dist.	-12507 Jul 30 j 21:41	11° $\mathbb{M}$ 44'15	4.11355 AU		-12501 Nov 26 j 01:43	0° $\mathbb{I}$	
direct	-12507 Sep 28 j 06:20	6° $\mathbb{M}$ 38'16		retrograde	-12501 Dec 14 j 10:36	0° $\mathbb{I}$ 30'59	
	-12507 Dec 14 j 10:43	15° $\mathbb{M}$			-12500 Jan 01 j 21:07	30° $\mathbb{R}$ $\mathbb{B}$	
evening set	-12506 Feb 03 j 14:27	25° $\mathbb{M}$ 52'13		opposition	-12500 Feb 14 j 03:39	25° $\mathbb{B}$ 36'01	2°35'38
				min. Earth dist.	-12500 Feb 14 j 10:17	25° $\mathbb{B}$ 33'54	4.26213 AU
conjunction	-12506 Feb 17 j 06:34	28° $\mathbb{M}$ 59'39	-1°43'31	direct	-12500 Apr 15 j 08:47	20° $\mathbb{B}$ 42'00	
minimum elong	-12506 Feb 17 j 06:36	28° $\mathbb{M}$ 59'40	1°44'10		-12500 Jul 07 j 07:15	0° $\mathbb{I}$	
max. Earth dist.	-12506 Feb 17 j 15:15	29° $\mathbb{M}$ 04'38	6.14317 AU	evening set	-12500 Aug 16 j 21:07	8° $\mathbb{I}$ 45'26	
	-12506 Feb 21 j 15:59	0° $\mathbb{X}$					
morning rise	-12506 Mar 02 j 21:38	2° $\mathbb{X}$ 06'25		conjunction	-12500 Aug 29 j 07:51	11° $\mathbb{I}$ 36'45	1°37'24
retrograde	-12506 Jul 06 j 04:08	20° $\mathbb{X}$ 49'02		minimum elong	-12500 Aug 29 j 07:55	11° $\mathbb{I}$ 36'47	1°38'08
opposition	-12506 Sep 02 j 23:44	15° $\mathbb{X}$ 49'23	-2°18'07	max. Earth dist.	-12500 Aug 29 j 05:19	11° $\mathbb{I}$ 35'18	6.22592 AU
min. Earth dist.	-12506 Sep 02 j 23:16	15° $\mathbb{X}$ 49'32	4.17977 AU	morning rise	-12500 Sep 10 j 20:15	14° $\mathbb{I}$ 29'07	
direct	-12506 Nov 02 j 01:34	10° $\mathbb{X}$ 45'17			-12500 Nov 30 j 11:41	0° $\mathbb{Q}$	
evening set	-12505 Mar 11 j 09:21	29° $\mathbb{X}$ 45'08		retrograde	-12499 Jan 17 j 03:20	3° $\mathbb{Q}$ 17'15	
	-12505 Mar 12 j 11:50	0° $\mathbb{B}$			-12499 Mar 06 j 08:36	30° $\mathbb{R}$ $\mathbb{I}$	
conjunction	-12505 Mar 24 j 21:58	2° $\mathbb{B}$ 48'11	-1°14'39	opposition	-12499 Mar 19 j 17:04	28° $\mathbb{I}$ 18'50	1°59'36
minimum elong	-12505 Mar 24 j 22:03	2° $\mathbb{B}$ 48'14	1°15'25	min. Earth dist.	-12499 Mar 19 j 14:24	28° $\mathbb{I}$ 19'41	4.18916 AU
max. Earth dist.	-12505 Mar 24 j 16:07	2° $\mathbb{B}$ 44'53	6.21636 AU	direct	-12499 May 18 j 18:40	23° $\mathbb{I}$ 25'55	
morning rise	-12505 Apr 07 j 07:41	5° $\mathbb{B}$ 49'42			-12499 Jul 24 j 20:13	0° $\mathbb{Q}$	
retrograde	-12505 Aug 07 j 17:44	23° $\mathbb{B}$ 48'44		evening set	-12499 Sep 18 j 09:35	11° $\mathbb{Q}$ 42'21	
opposition	-12505 Oct 05 j 22:43	18° $\mathbb{B}$ 52'48	-1°15'21				
min. Earth dist.	-12505 Oct 06 j 06:51	18° $\mathbb{B}$ 50'07	4.25251 AU	conjunction	-12499 Oct 01 j 05:23	14° $\mathbb{Q}$ 40'52	0°57'47
direct	-12505 Dec 06 j 04:31	13° $\mathbb{B}$ 48'43		minimum elong	-12499 Oct 01 j 05:29	14° $\mathbb{Q}$ 40'55	0°58'31
	-12504 Apr 02 j 09:19	0° $\mathbb{Q}$		max. Earth dist.	-12499 Oct 01 j 16:08	14° $\mathbb{Q}$ 47'06	6.15197 AU
evening set	-12504 Apr 13 j 11:05	2° $\mathbb{Q}$ 26'25		morning rise	-12499 Oct 14 j 04:39	17° $\mathbb{Q}$ 41'15	
					-12499 Dec 11 j 17:58	0° $\mathbb{Q}$	
conjunction	-12504 Apr 26 j 16:54	5° $\mathbb{Q}$ 24'07	-0°22'28	retrograde	-12498 Feb 21 j 17:01	7° $\mathbb{Q}$ 07'28	
minimum elong	-12504 Apr 26 j 16:56	5° $\mathbb{Q}$ 24'09	0°23'07	opposition	-12498 Apr 23 j 19:08	2° $\mathbb{Q}$ 05'28	0°42'31
max. Earth dist.	-12504 Apr 25 j 21:22	5° $\mathbb{Q}$ 13'10	6.28390 AU	min. Earth dist.	-12498 Apr 23 j 06:06	2° $\mathbb{Q}$ 09'46	4.11931 AU
morning rise	-12504 May 09 j 19:25	8° $\mathbb{Q}$ 20'03			-12498 May 10 j 04:37	30° $\mathbb{R}$ $\mathbb{Q}$	
	-12504 Jun 09 j 19:27	15° $\mathbb{Q}$		direct	-12498 Jun 21 j 16:45	27° $\mathbb{Q}$ 11'48	
retrograde	-12504 Sep 07 j 17:18	25° $\mathbb{Q}$ 49'21			-12498 Aug 02 j 14:14	0° $\mathbb{Q}$	
asc. node	-12504 Sep 26 j 22:32	25° $\mathbb{Q}$ 13'33			-12498 Oct 19 j 04:24	15° $\mathbb{Q}$	
opposition	-12504 Nov 06 j 13:19	20° $\mathbb{Q}$ 56'16	0°08'53	desc. node	-12498 Oct 21 j 02:56	15° $\mathbb{Q}$ 26'56	
min. Earth dist.	-12504 Nov 07 j 05:23	20° $\mathbb{Q}$ 51'03	4.30871 AU	evening set	-12498 Oct 22 j 15:53	15° $\mathbb{Q}$ 48'22	
direct	-12503 Jan 07 j 17:48	15° $\mathbb{Q}$ 53'51					
	-12503 Apr 26 j 18:32	0° $\mathbb{H}$		conjunction	-12498 Nov 04 j 22:55	18° $\mathbb{Q}$ 54'27	-0°02'24
evening set	-12503 May 15 j 23:06	4° $\mathbb{H}$ 10'45		minimum elong	-12498 Nov 04 j 22:56	18° $\mathbb{Q}$ 54'27	0°01'53
				behind sun begin	-12498 Nov 04 j 14:41	18° $\mathbb{Q}$ 49'39	

Attention, astronomical year style is used: The year -12498 in astronomical counting style is the year 12499 BCE in historical counting style.

behind sun end	-12498 Nov 05 j 07:12	18°Ω59'16		retrograde	-12492 Sep 11 j 23:41	0°⋈13'59	
max. Earth dist.	-12498 Nov 05 j 22:42	19°Ω08'21	6.09346 AU		-12492 Sep 24 j 00:44	30°♊	
morning rise	-12498 Nov 18 j 09:31	22°Ω02'30		opposition	-12492 Nov 10 j 23:46	25°≈21'14	0°20'36
	-12498 Dec 24 j 03:32	0°♎		min. Earth dist.	-12492 Nov 11 j 16:05	25°≈15'57	4.31840 AU
retrograde	-12497 Mar 29 j 19:35	11°♏51'45		direct	-12491 Jan 12 j 05:45	20°≈19'09	
min. Earth dist.	-12497 May 28 j 07:48	6°♏53'11	4.07743 AU		-12491 Apr 09 j 14:15	0°♋	
opposition	-12497 May 29 j 00:57	6°♏47'23	-0°51'28	evening set	-12491 May 20 j 06:39	8°♋32'31	
direct	-12497 Jul 26 j 07:58	1°♏51'16		max. Earth dist.	-12491 May 31 j 23:15	11°♋08'59	6.33006 AU
evening set	-12497 Nov 27 j 18:12	20°♏49'56					
				conjunction	-12491 Jun 02 j 02:05	11°♋24'00	0°42'57
conjunction	-12497 Dec 11 j 08:56	24°♏00'15	-1°02'33	minimum elong	-12491 Jun 02 j 02:01	11°♋23'57	0°42'41
minimum elong	-12497 Dec 11 j 08:50	24°♏00'11	1°02'26	morning rise	-12491 Jun 14 j 18:39	14°♋14'00	
max. Earth dist.	-12497 Dec 12 j 12:38	24°♏16'24	6.07192 AU		-12491 Sep 11 j 17:25	0°♌	
morning rise	-12497 Dec 25 j 02:19	27°♏11'53		retrograde	-12491 Oct 13 j 22:46	1°♌35'39	
	-12496 Jan 06 j 07:32	0°♍			-12491 Nov 15 j 09:41	30°♌	
retrograde	-12496 May 03 j 12:59	16°♍59'04		opposition	-12491 Dec 13 j 16:07	26°♌43'51	1°38'19
opposition	-12496 Jul 01 j 23:19	11°♍54'26	-2°07'32	min. Earth dist.	-12491 Dec 14 j 11:12	26°♌37'47	4.33252 AU
min. Earth dist.	-12496 Jul 01 j 06:12	12°♍00'17	4.07982 AU	direct	-12490 Feb 14 j 04:03	21°♌44'38	
direct	-12496 Aug 29 j 06:32	6°♍54'57			-12490 May 04 j 14:05	0°♌	
evening set	-12495 Jan 02 j 22:05	26°♍07'50		evening set	-12490 Jun 20 j 14:56	9°♌46'56	
				max. Earth dist.	-12490 Jul 02 j 02:28	12°♌21'34	6.32317 AU
conjunction	-12495 Jan 16 j 15:12	29°♍17'48	-1°40'02				
minimum elong	-12495 Jan 16 j 15:07	29°♍17'45	1°40'24	conjunction	-12490 Jul 03 j 02:18	12°♌34'59	1°27'26
max. Earth dist.	-12495 Jan 17 j 12:32	29°♍30'08	6.09667 AU	minimum elong	-12490 Jul 03 j 02:13	12°♌34'56	1°27'36
	-12495 Jan 19 j 16:09	0°♎		morning rise	-12490 Jul 15 j 11:55	15°♌22'14	
morning rise	-12495 Jan 30 j 08:59	2°♎27'59			-12490 Oct 01 j 01:57	0°♏	
	-12495 Mar 31 j 03:38	15°♎		retrograde	-12490 Nov 15 j 11:41	3°♏02'16	
retrograde	-12495 Jun 07 j 07:32	21°♎46'31			-12490 Dec 31 j 22:47	30°♏	
opposition	-12495 Aug 05 j 05:33	16°♎43'52	-2°36'51	opposition	-12489 Jan 15 j 21:10	28°♏09'31	2°27'37
min. Earth dist.	-12495 Aug 04 j 20:07	16°♎47'06	4.12525 AU	min. Earth dist.	-12489 Jan 16 j 11:25	28°♏05'00	4.30640 AU
	-12495 Aug 18 j 03:31	15°♎		direct	-12489 Mar 18 j 21:01	23°♏13'23	
direct	-12495 Oct 03 j 07:58	11°♎41'18			-12489 May 28 j 06:16	0°♏	
	-12495 Nov 18 j 16:37	15°♎		evening set	-12489 Jul 21 j 17:27	11°♏13'49	
	-12494 Feb 04 j 22:18	0°♏		max. Earth dist.	-12489 Aug 02 j 10:26	13°♏53'23	6.27869 AU
evening set	-12494 Feb 08 j 18:57	0°♏52'24					
conjunction	-12494 Feb 22 j 10:44	3°♏59'03	-1°41'21	conjunction	-12489 Aug 03 j 01:22	14°♏01'53	1°46'34
minimum elong	-12494 Feb 22 j 10:47	3°♏59'04	1°42'03	minimum elong	-12489 Aug 03 j 01:21	14°♏01'52	1°47'05
max. Earth dist.	-12494 Feb 22 j 19:07	4°♏03'50	6.15795 AU		-12489 Aug 07 j 07:23	15°♏	
morning rise	-12494 Mar 08 j 00:56	7°♏04'49		morning rise	-12489 Aug 15 j 09:25	16°♏50'08	
retrograde	-12494 Jul 10 j 18:31	25°♏38'54			-12489 Oct 20 j 03:37	0°♐	
opposition	-12494 Sep 07 j 16:15	20°♏39'47	-2°11'24	retrograde	-12489 Dec 19 j 05:42	5°♐04'51	
min. Earth dist.	-12494 Sep 07 j 16:01	20°♏39'52	4.19622 AU	opposition	-12488 Feb 18 j 20:52	0°♐09'32	2°33'30
direct	-12494 Nov 06 j 21:48	15°♏35'38		min. Earth dist.	-12488 Feb 19 j 03:36	0°♐07'24	4.24708 AU
	-12493 Feb 23 j 18:22	0°♑			-12488 Feb 20 j 02:49	30°♑	
evening set	-12493 Mar 16 j 06:30	4°♑30'15		direct	-12488 Apr 19 j 22:31	25°♑15'47	
					-12488 Jun 15 j 20:56	0°♐	
conjunction	-12493 Mar 29 j 18:02	7°♑32'13	-1°08'21	evening set	-12488 Aug 21 j 07:25	13°♐22'44	
minimum elong	-12493 Mar 29 j 18:08	7°♑32'17	1°09'07				
max. Earth dist.	-12493 Mar 29 j 08:47	7°♑27'00	6.23318 AU	conjunction	-12488 Sep 02 j 19:09	16°♐15'12	1°33'34
morning rise	-12493 Apr 12 j 02:53	10°♑32'40		minimum elong	-12488 Sep 02 j 19:13	16°♐15'15	1°34'19
retrograde	-12493 Aug 12 j 04:38	28°♑24'13		max. Earth dist.	-12488 Sep 02 j 17:28	16°♐14'14	6.20933 AU
opposition	-12493 Oct 10 j 11:29	23°♑28'46	-1°04'18	morning rise	-12488 Sep 15 j 09:01	19°♐08'53	
min. Earth dist.	-12493 Oct 10 j 21:54	23°♑25'19	4.26807 AU		-12488 Nov 05 j 12:41	0°♑	
direct	-12493 Dec 10 j 22:54	18°♑24'47		retrograde	-12487 Jan 22 j 01:31	8°♑05'11	
	-12492 Mar 16 j 11:42	0°≈		opposition	-12487 Mar 24 j 14:31	3°♑06'15	1°50'51
evening set	-12492 Apr 18 j 00:10	6°≈57'12		min. Earth dist.	-12487 Mar 24 j 09:18	3°♑07'56	4.17238 AU
max. Earth dist.	-12492 Apr 30 j 08:44	9°≈42'37	6.29701 AU		-12487 Apr 19 j 15:47	30°♑	
				direct	-12487 May 23 j 09:55	28°♐13'24	
conjunction	-12492 May 01 j 04:56	9°≈53'54	-0°14'26		-12487 Jun 25 j 21:00	0°♑	
minimum elong	-12492 May 01 j 04:57	9°≈53'55	0°15'02	evening set	-12487 Sep 23 j 03:05	16°♑34'30	
behind sun begin	-12492 May 01 j 02:05	9°≈52'19					
behind sun end	-12492 May 01 j 07:50	9°≈55'31		conjunction	-12487 Oct 06 j 00:41	19°♑34'28	0°50'05
morning rise	-12492 May 14 j 06:02	12°≈48'47		minimum elong	-12487 Oct 06 j 00:46	19°♑34'30	0°50'49
	-12492 May 24 j 04:00	15°≈		max. Earth dist.	-12487 Oct 06 j 14:54	19°♑42'45	6.13671 AU
asc. node	-12492 Aug 07 j 17:29	28°≈17'22		morning rise	-12487 Oct 19 j 01:36	22°♑36'19	
	-12492 Aug 31 j 00:02	0°♋			-12487 Nov 21 j 06:44	0°♒	
				retrograde	-12486 Feb 26 j 21:36	12°♒08'56	

Attention, astronomical year style is used: The year -12486 in astronomical counting style is the year 12487 BCE in historical counting style.

opposition	-12486 Apr 28 j 19:46	7°Ω06'30	0°29'22		-12480 Feb 25 j 13:59	0°≈	
min. Earth dist.	-12486 Apr 28 j 06:11	7°Ω11'00	4.10680 AU	evening set	-12480 Apr 22 j 15:24	11°≈33'43	
direct	-12486 Jun 26 j 15:08	2°Ω12'34					
desc. node	-12486 Aug 29 j 16:43	8°Ω25'12		conjunction	-12480 May 05 j 18:47	14°≈29'37	-0°06'10
	-12486 Oct 01 j 17:10	15°Ω		minimum elong	-12480 May 05 j 18:48	14°≈29'38	0°06'43
evening set	-12486 Oct 27 j 17:28	20°Ω53'41		behind sun begin	-12480 May 05 j 11:15	14°≈25'26	
				behind sun end	-12480 May 06 j 02:22	14°≈33'50	
conjunction	-12486 Nov 10 j 01:56	24°Ω00'48	-0°11'35	max. Earth dist.	-12480 May 04 j 19:36	14°≈16'40	6.30397 AU
minimum elong	-12486 Nov 10 j 01:54	24°Ω00'47	0°11'07		-12480 May 08 j 01:06	15°≈	
behind sun begin	-12486 Nov 09 j 19:47	23°Ω57'13		morning rise	-12480 May 18 j 18:54	17°≈23'47	
behind sun end	-12486 Nov 10 j 08:02	24°Ω04'21		asc. node	-12480 Jun 16 j 13:47	23°≈35'33	
max. Earth dist.	-12486 Nov 11 j 03:17	24°Ω15'37	6.08486 AU		-12480 Jul 21 j 14:14	0°✕	
morning rise	-12486 Nov 23 j 14:02	27°Ω09'50		retrograde	-12480 Sep 16 j 12:27	4°✕47'06	
	-12486 Dec 05 j 22:12	0°♐			-12480 Nov 14 j 21:20	30°♑≈	
retrograde	-12485 Apr 03 j 23:15	17°♐01'09		opposition	-12480 Nov 15 j 14:05	29°≈54'36	0°32'33
min. Earth dist.	-12485 Jun 02 j 07:15	12°♐02'55	4.07368 AU	min. Earth dist.	-12480 Nov 16 j 08:02	29°≈48'48	4.32236 AU
opposition	-12485 Jun 03 j 02:06	11°♐56'32	-1°04'20	direct	-12479 Jan 16 j 22:27	24°≈52'49	
direct	-12485 Jul 31 j 07:05	6°♐59'57			-12479 Mar 19 j 02:28	0°✕	
evening set	-12485 Dec 03 j 01:19	26°♐01'23		evening set	-12479 May 24 j 17:58	13°✕04'21	
				max. Earth dist.	-12479 Jun 05 j 10:21	15°✕40'44	6.33071 AU
conjunction	-12485 Dec 16 j 16:41	29°♐11'52	-1°09'47	conjunction	-12479 Jun 06 j 12:19	15°✕55'16	0°50'21
minimum elong	-12485 Dec 16 j 16:34	29°♐11'48	1°09'45	minimum elong	-12479 Jun 06 j 12:14	15°✕55'14	0°50'09
max. Earth dist.	-12485 Dec 17 j 20:38	29°♐28'10	6.07288 AU	morning rise	-12479 Jun 19 j 03:37	18°✕44'44	
	-12485 Dec 20 j 03:14	0°♑			-12479 Aug 13 j 17:10	0°♑	
morning rise	-12485 Dec 30 j 10:27	2°♑23'33		retrograde	-12479 Oct 18 j 11:28	6°♑08'04	
retrograde	-12484 May 08 j 14:26	22°♑07'46		opposition	-12479 Dec 18 j 07:55	1°♑16'16	1°47'27
opposition	-12484 Jul 06 j 22:33	17°♑03'09	-2°15'02	min. Earth dist.	-12479 Dec 19 j 02:01	1°♑10'31	4.33011 AU
min. Earth dist.	-12484 Jul 06 j 06:29	17°♑08'40	4.08509 AU		-12479 Dec 28 j 10:38	30°♑✕	
direct	-12484 Sep 03 j 08:30	12°♑03'06		direct	-12478 Feb 18 j 17:56	26°✕17'32	
	-12483 Jan 02 j 16:42	0°♒			-12478 Apr 11 j 00:51	0°♑	
evening set	-12483 Jan 08 j 05:40	1°♒15'59		evening set	-12478 Jun 25 j 00:55	14°♑19'31	
conjunction	-12483 Jan 21 j 22:50	4°♒25'31	-1°42'34	max. Earth dist.	-12478 Jul 06 j 11:45	16°♑54'02	6.31775 AU
minimum elong	-12483 Jan 21 j 22:47	4°♒25'28	1°42'58	conjunction	-12478 Jul 07 j 11:20	17°♑07'21	1°31'55
max. Earth dist.	-12483 Jan 22 j 20:05	4°♒37'46	6.10536 AU	minimum elong	-12478 Jul 07 j 11:15	17°♑07'18	1°32'08
morning rise	-12483 Feb 04 j 16:09	7°♒35'03		morning rise	-12478 Jul 19 j 20:27	19°♑54'34	
	-12483 Mar 10 j 05:45	15°♒			-12478 Sep 06 j 07:47	0°♑	
retrograde	-12483 Jun 12 j 03:20	26°♒46'57		retrograde	-12478 Nov 20 j 06:34	7°♑39'12	
opposition	-12483 Aug 10 j 01:06	21°♒44'42	-2°36'25	opposition	-12477 Jan 20 j 16:09	2°♑46'13	2°31'21
min. Earth dist.	-12483 Aug 09 j 16:22	21°♒47'41	4.13636 AU	min. Earth dist.	-12477 Jan 21 j 06:19	2°♑41'44	4.29855 AU
direct	-12483 Oct 08 j 06:16	16°♒41'48			-12477 Feb 12 j 22:57	30°♑♑	
	-12482 Jan 18 j 10:59	0°♑		direct	-12477 Mar 23 j 13:56	27°♑50'30	
evening set	-12482 Feb 13 j 22:25	5°♑50'25			-12477 Apr 30 j 17:45	0°♑	
conjunction	-12482 Feb 27 j 13:35	8°♑56'19	-1°38'32	evening set	-12477 Jul 22 j 08:36	15°♑	
minimum elong	-12482 Feb 27 j 13:39	8°♑56'21	1°39'15		-12477 Jul 26 j 04:21	15°♑51'49	
max. Earth dist.	-12482 Feb 27 j 17:59	8°♑58'50	6.17030 AU	conjunction	-12477 Aug 07 j 12:27	18°♑40'18	1°46'44
morning rise	-12482 Mar 13 j 03:17	12°♑01'17		minimum elong	-12477 Aug 07 j 12:26	18°♑40'17	1°47'18
	-12482 Jun 28 j 15:38	0°♑		max. Earth dist.	-12477 Aug 06 j 23:31	18°♑32'55	6.26915 AU
retrograde	-12482 Jul 15 j 10:04	0°♑28'10		morning rise	-12477 Aug 19 j 20:54	21°♑29'06	
	-12482 Aug 01 j 02:45	30°♑♑			-12477 Sep 28 j 10:33	0°♑	
opposition	-12482 Sep 12 j 08:43	25°♑29'33	-2°03'55	retrograde	-12477 Dec 24 j 02:13	9°♑49'45	
min. Earth dist.	-12482 Sep 12 j 10:40	25°♑28'53	4.20849 AU	opposition	-12476 Feb 23 j 18:40	4°♑54'00	2°30'20
direct	-12482 Nov 11 j 19:53	20°♑25'15		min. Earth dist.	-12476 Feb 23 j 22:39	4°♑52'43	4.23690 AU
	-12481 Feb 05 j 05:55	0°♑		direct	-12476 Apr 24 j 15:09	0°♑00'33	
evening set	-12481 Mar 21 j 03:16	9°♑16'13		evening set	-12476 Aug 25 j 21:46	18°♑09'03	
conjunction	-12481 Apr 03 j 14:12	12°♑17'27	-1°01'36	conjunction	-12476 Sep 07 j 10:35	21°♑02'24	1°29'04
minimum elong	-12481 Apr 03 j 14:17	12°♑17'30	1°02'22	minimum elong	-12476 Sep 07 j 10:40	21°♑02'27	1°29'49
max. Earth dist.	-12481 Apr 03 j 04:03	12°♑11'44	6.24463 AU	max. Earth dist.	-12476 Sep 07 j 11:54	21°♑03'10	6.19961 AU
morning rise	-12481 Apr 16 j 21:56	15°♑17'02		morning rise	-12476 Sep 20 j 01:42	23°♑57'05	
	-12481 Jul 03 j 08:05	0°≈			-12476 Oct 17 j 05:10	0°♑	
retrograde	-12481 Aug 16 j 16:36	3°≈03'19		retrograde	-12475 Jan 27 j 03:29	12°♑58'41	
	-12481 Sep 30 j 14:11	30°♑♑		opposition	-12475 Mar 29 j 14:23	7°♑59'13	1°41'10
opposition	-12481 Oct 15 j 01:53	28°♑08'21	-0°52'47	min. Earth dist.	-12475 Mar 29 j 08:14	8°♑01'13	4.16378 AU
min. Earth dist.	-12481 Oct 15 j 13:02	28°♑04'40	4.27762 AU	direct	-12475 May 28 j 07:13	3°♑06'21	
direct	-12481 Dec 15 j 16:08	23°♑04'33					

Attention, astronomical year style is used: The year -12475 in astronomical counting style is the year 12476 BCE in historical counting style.

evening set	-12475 Sep 27 j 22:13	21° $\Omega$ 29'12	conjunction	-12469 Apr 08 j 08:07	16° $\mathfrak{Z}$ 58'26	-0°54'34	
			minimum elong	-12469 Apr 08 j 08:12	16° $\mathfrak{Z}$ 58'29	0°55'19	
conjunction	-12475 Oct 10 j 21:20	24° $\mathfrak{Z}$ 30'09	0°42'02	max. Earth dist.	-12469 Apr 07 j 18:31	16° $\mathfrak{Z}$ 50'47	6.25085 AU
minimum elong	-12475 Oct 10 j 21:25	24° $\mathfrak{Z}$ 30'12	0°42'44	morning rise	-12469 Apr 21 j 15:07	19° $\mathfrak{Z}$ 57'28	
max. Earth dist.	-12475 Oct 11 j 13:37	24° $\mathfrak{Z}$ 39'38	6.13018 AU		-12469 Jun 08 j 19:04	0° $\approx$	
morning rise	-12475 Oct 24 j 00:00	27° $\mathfrak{Z}$ 33'04		retrograde	-12469 Aug 21 j 04:57	7° $\approx$ 40'36	
	-12475 Nov 03 j 16:16	0° $\Omega$		opposition	-12469 Oct 19 j 15:36	2° $\approx$ 46'03	-0°41'06
	-12474 Jan 25 j 07:32	15° $\Omega$		min. Earth dist.	-12469 Oct 20 j 04:12	2° $\approx$ 41'54	4.28198 AU
retrograde	-12474 Mar 03 j 22:54	17° $\Omega$ 08'27			-12469 Nov 10 j 23:52	30° $\mathfrak{R}$ $\mathfrak{Z}$	
	-12474 Apr 10 j 10:22	15° $\mathfrak{R}$ $\Omega$		direct	-12469 Dec 20 j 08:39	27° $\mathfrak{Z}$ 42'26	
opposition	-12474 May 03 j 19:34	12° $\Omega$ 05'37	0°16'06		-12468 Jan 29 j 00:21	0° $\approx$	
min. Earth dist.	-12474 May 03 j 04:07	12° $\Omega$ 10'45	4.10298 AU		-12468 Apr 21 j 22:59	15° $\approx$	
direct	-12474 Jul 01 j 11:38	7° $\Omega$ 11'26		asc. node	-12468 Apr 25 j 12:08	15° $\approx$ 46'59	
desc. node	-12474 Jul 09 j 19:35	7° $\Omega$ 18'29		evening set	-12468 Apr 27 j 06:03	16° $\approx$ 10'12	
	-12474 Sep 12 j 07:22	15° $\Omega$		max. Earth dist.	-12468 May 09 j 09:41	18° $\approx$ 52'51	6.30639 AU
evening set	-12474 Nov 01 j 17:49	25° $\Omega$ 54'16					
			conjunction	-12468 May 10 j 08:26	19° $\approx$ 05'35	0°02'14	
conjunction	-12474 Nov 15 j 03:26	29° $\Omega$ 01'55	-0°20'29	minimum elong	-12468 May 10 j 08:25	19° $\approx$ 05'34	0°01'43
minimum elong	-12474 Nov 15 j 03:24	29° $\Omega$ 01'53	0°20'05	behind sun begin	-12468 May 10 j 00:20	19° $\approx$ 01'04	
max. Earth dist.	-12474 Nov 16 j 05:32	29° $\Omega$ 17'10	6.08390 AU	behind sun end	-12468 May 10 j 16:31	19° $\approx$ 10'04	
	-12474 Nov 19 j 06:50	0° $\mathfrak{M}$		morning rise	-12468 May 23 j 07:14	21° $\approx$ 59'09	
morning rise	-12474 Nov 28 j 16:35	2° $\mathfrak{M}$ 11'26			-12468 Jun 30 j 03:35	0° $\mathfrak{H}$	
retrograde	-12473 Apr 08 j 23:47	22° $\mathfrak{M}$ 02'09		retrograde	-12468 Sep 21 j 01:15	9° $\mathfrak{H}$ 22'13	
opposition	-12473 Jun 07 j 23:54	16° $\mathfrak{M}$ 57'22	-1°16'20	opposition	-12468 Nov 20 j 05:09	4° $\mathfrak{H}$ 29'57	0°44'20
min. Earth dist.	-12473 Jun 07 j 05:37	17° $\mathfrak{M}$ 03'34	4.07562 AU	min. Earth dist.	-12468 Nov 20 j 22:54	4° $\mathfrak{H}$ 24'15	4.32276 AU
direct	-12473 Aug 05 j 05:42	12° $\mathfrak{M}$ 00'16			-12467 Jan 02 j 23:03	30° $\mathfrak{R}$ $\approx$	
	-12473 Dec 03 j 15:51	0° $\underline{\Omega}$		direct	-12467 Jan 21 j 13:48	29° $\approx$ 28'37	
evening set	-12473 Dec 08 j 04:56	1° $\underline{\Omega}$ 02'55			-12467 Feb 09 j 06:58	0° $\mathfrak{H}$	
			evening set	-12467 May 29 j 06:03	17° $\mathfrak{H}$ 39'16		
conjunction	-12473 Dec 21 j 20:52	4° $\underline{\Omega}$ 13'23	-1°16'16				
minimum elong	-12473 Dec 21 j 20:45	4° $\underline{\Omega}$ 13'19	1°16'19	conjunction	-12467 Jun 10 j 23:01	20° $\mathfrak{H}$ 29'41	0°57'29
max. Earth dist.	-12473 Dec 23 j 01:08	4° $\underline{\Omega}$ 29'50	6.07736 AU	minimum elong	-12467 Jun 10 j 22:55	20° $\mathfrak{H}$ 29'38	0°57'21
morning rise	-12472 Jan 04 j 14:43	7° $\underline{\Omega}$ 24'50		max. Earth dist.	-12467 Jun 09 j 20:14	20° $\mathfrak{H}$ 14'41	6.32896 AU
retrograde	-12472 May 13 j 11:00	27° $\underline{\Omega}$ 05'03		morning rise	-12467 Jun 23 j 13:25	23° $\mathfrak{H}$ 18'48	
opposition	-12472 Jul 11 j 17:12	22° $\underline{\Omega}$ 00'41	-2°21'16		-12467 Jul 24 j 16:52	0° $\mathfrak{Y}$	
min. Earth dist.	-12472 Jul 11 j 02:03	22° $\underline{\Omega}$ 05'53	4.09186 AU	retrograde	-12467 Oct 23 j 03:38	10° $\mathfrak{Y}$ 44'34	
direct	-12472 Sep 08 j 04:25	17° $\underline{\Omega}$ 00'13		opposition	-12467 Dec 23 j 01:26	5° $\mathfrak{Y}$ 52'41	1°56'00
	-12472 Dec 16 j 11:38	0° $\mathfrak{M}$		min. Earth dist.	-12467 Dec 23 j 19:20	5° $\mathfrak{Y}$ 46'59	4.32658 AU
evening set	-12471 Jan 13 j 08:57	6° $\mathfrak{M}$ 13'02		direct	-12466 Feb 23 j 10:35	0° $\mathfrak{Y}$ 54'21	
			evening set	-12466 Jun 29 j 11:54	18° $\mathfrak{Y}$ 56'00		
conjunction	-12471 Jan 27 j 01:50	9° $\mathfrak{M}$ 22'06	-1°44'15				
minimum elong	-12471 Jan 27 j 01:47	9° $\mathfrak{M}$ 22'05	1°44'44	conjunction	-12466 Jul 11 j 21:45	21° $\mathfrak{Y}$ 43'43	1°35'52
max. Earth dist.	-12471 Jan 27 j 19:06	9° $\mathfrak{M}$ 32'03	6.11342 AU	minimum elong	-12466 Jul 11 j 21:40	21° $\mathfrak{Y}$ 43'40	1°36'07
morning rise	-12471 Feb 09 j 18:56	12° $\mathfrak{M}$ 31'07		max. Earth dist.	-12466 Jul 11 j 00:57	21° $\mathfrak{Y}$ 31'58	6.31261 AU
	-12471 Feb 20 j 17:31	15° $\mathfrak{M}$		morning rise	-12466 Jul 24 j 06:14	24° $\mathfrak{Y}$ 30'52	
	-12471 May 16 j 04:55	0° $\mathfrak{X}$			-12466 Aug 18 j 08:39	0° $\mathfrak{B}$	
retrograde	-12471 Jun 16 j 19:20	1° $\mathfrak{X}$ 37'18		retrograde	-12466 Nov 24 j 23:59	12° $\mathfrak{B}$ 19'38	
	-12471 Jul 18 j 04:00	30° $\mathfrak{R}$ $\mathfrak{M}$		opposition	-12465 Jan 25 j 11:55	7° $\mathfrak{B}$ 26'18	2°34'07
opposition	-12471 Aug 14 j 16:56	26° $\mathfrak{M}$ 35'31	-2°34'56	min. Earth dist.	-12465 Jan 25 j 23:56	7° $\mathfrak{B}$ 22'30	4.29231 AU
min. Earth dist.	-12471 Aug 14 j 10:07	26° $\mathfrak{M}$ 37'51	4.14496 AU	direct	-12465 Mar 28 j 06:26	2° $\mathfrak{B}$ 31'00	
direct	-12471 Oct 13 j 02:28	21° $\mathfrak{M}$ 32'18			-12465 Jul 05 j 13:26	15° $\mathfrak{B}$	
	-12471 Dec 30 j 10:02	0° $\mathfrak{X}$		evening set	-12465 Jul 30 j 16:05	20° $\mathfrak{B}$ 32'20	
evening set	-12470 Feb 18 j 21:44	10° $\mathfrak{X}$ 39'35					
			conjunction	-12465 Aug 12 j 00:16	23° $\mathfrak{B}$ 21'08	1°46'13	
conjunction	-12470 Mar 04 j 12:39	13° $\mathfrak{X}$ 45'00	-1°35'08	minimum elong	-12465 Aug 12 j 00:16	23° $\mathfrak{B}$ 21'08	1°46'50
minimum elong	-12470 Mar 04 j 12:43	13° $\mathfrak{X}$ 45'03	1°35'51	max. Earth dist.	-12465 Aug 11 j 12:53	23° $\mathfrak{B}$ 14'38	6.26208 AU
max. Earth dist.	-12470 Mar 04 j 15:30	13° $\mathfrak{X}$ 46'38	6.17885 AU	morning rise	-12465 Aug 24 j 09:15	26° $\mathfrak{B}$ 10'26	
morning rise	-12470 Mar 18 j 01:32	16° $\mathfrak{X}$ 49'20			-12465 Sep 10 j 12:06	0° $\mathfrak{I}$	
	-12470 May 22 j 07:35	0° $\mathfrak{Z}$		retrograde	-12465 Dec 29 j 00:23	14° $\mathfrak{I}$ 35'56	
retrograde	-12470 Jul 20 j 00:05	5° $\mathfrak{Z}$ 10'53		opposition	-12464 Feb 28 j 16:38	9° $\mathfrak{I}$ 39'37	2°26'09
opposition	-12470 Sep 16 j 22:41	0° $\mathfrak{Z}$ 12'52	-1°55'50	min. Earth dist.	-12464 Feb 28 j 19:33	9° $\mathfrak{I}$ 38'41	4.22919 AU
min. Earth dist.	-12470 Sep 17 j 02:16	0° $\mathfrak{Z}$ 11'40	4.21614 AU	direct	-12464 Apr 29 j 10:27	4° $\mathfrak{I}$ 46'18	
	-12470 Sep 18 j 13:02	30° $\mathfrak{R}$ $\mathfrak{X}$		evening set	-12464 Aug 30 j 11:51	22° $\mathfrak{I}$ 55'25	
direct	-12470 Nov 16 j 13:24	25° $\mathfrak{X}$ 08'35					
	-12469 Jan 13 j 23:06	0° $\mathfrak{Z}$		conjunction	-12464 Sep 12 j 01:54	25° $\mathfrak{I}$ 49'37	1°23'59
evening set	-12469 Mar 25 j 22:05	13° $\mathfrak{Z}$ 57'45		minimum elong	-12464 Sep 12 j 01:59	25° $\mathfrak{I}$ 49'40	1°24'44
			max. Earth dist.	-12464 Sep 12 j 05:47	25° $\mathfrak{I}$ 51'51	6.19197 AU	

Attention, astronomical year style is used: The year -12464 in astronomical counting style is the year 12465 BCE in historical counting style.

morning rise	-12464 Sep 24 j 18:24	28° $\Pi$ 45'15		retrograde	-12458 Jul 24 j 14:06	9° $\Xi$ 56'14	
	-12464 Sep 30 j 05:10	0° $\Theta$		opposition	-12458 Sep 21 j 14:11	4° $\Xi$ 58'44	-1°46'54
retrograde	-12463 Feb 01 j 02:40	17° $\Theta$ 51'07		min. Earth dist.	-12458 Sep 21 j 18:51	4° $\Xi$ 57'10	4.22363 AU
opposition	-12463 Apr 03 j 13:14	12° $\Theta$ 51'09	1°30'49		-12458 Nov 13 j 17:31	30° $\mathbb{R}$ 27	
min. Earth dist.	-12463 Apr 03 j 05:11	12° $\Theta$ 53'46	4.15667 AU	direct	-12458 Nov 21 j 08:20	29° $\mathbb{Z}$ 54'24	
direct	-12463 Jun 02 j 02:05	7° $\Theta$ 58'13			-12458 Nov 28 j 23:51	0° $\Xi$	
evening set	-12463 Oct 02 j 17:08	26° $\Theta$ 22'37		evening set	-12457 Mar 30 j 17:48	18° $\Xi$ 41'34	
conjunction	-12463 Oct 15 j 17:43	29° $\Theta$ 24'29	0°33'44	conjunction	-12457 Apr 13 j 03:01	21° $\Xi$ 41'40	-0°47'06
minimum elong	-12463 Oct 15 j 17:47	29° $\Theta$ 24'31	0°34'25	minimum elong	-12457 Apr 13 j 03:06	21° $\Xi$ 41'43	0°47'48
max. Earth dist.	-12463 Oct 16 j 11:03	29° $\Theta$ 34'36	6.12428 AU	max. Earth dist.	-12457 Apr 12 j 12:27	21° $\Xi$ 33'28	6.25775 AU
	-12463 Oct 18 j 06:38	0° $\Omega$		morning rise	-12457 Apr 26 j 08:59	24° $\Xi$ 40'02	
morning rise	-12463 Oct 28 j 22:00	2° $\Omega$ 28'22			-12457 May 20 j 20:15	0° $\approx$	
	-12463 Dec 27 j 08:52	15° $\Omega$		retrograde	-12457 Aug 25 j 19:08	12° $\approx$ 19'54	
retrograde	-12462 Mar 08 j 24:00	22° $\Omega$ 06'21		opposition	-12457 Oct 24 j 06:56	7° $\approx$ 25'49	-0°29'00
opposition	-12462 May 08 j 18:05	17° $\Omega$ 03'05	0°02'48	min. Earth dist.	-12457 Oct 24 j 20:33	7° $\approx$ 21'21	4.28765 AU
min. Earth dist.	-12462 May 08 j 02:17	17° $\Omega$ 08'21	4.09863 AU	direct	-12457 Dec 25 j 02:47	2° $\approx$ 22'31	
desc. node	-12462 May 20 j 09:33	15° $\Omega$ 31'33		asc. node	-12456 Mar 04 j 10:58	9° $\approx$ 00'47	
	-12462 May 24 j 15:39	15° $\mathbb{R}$ $\Omega$			-12456 Apr 04 j 23:23	15° $\approx$	
direct	-12462 Jul 06 j 08:44	12° $\Omega$ 08'30		evening set	-12456 May 01 j 21:21	20° $\approx$ 48'07	
	-12462 Aug 17 j 11:25	15° $\Omega$					
	-12462 Nov 02 j 21:26	0° $\mathbb{P}$		conjunction	-12456 May 14 j 22:25	23° $\approx$ 42'48	0°10'35
evening set	-12462 Nov 06 j 18:07	0° $\mathbb{P}$ 53'41		minimum elong	-12456 May 14 j 22:24	23° $\approx$ 42'47	0°10'07
				behind sun begin	-12456 May 14 j 15:56	23° $\approx$ 39'11	
conjunction	-12462 Nov 20 j 05:01	4° $\mathbb{P}$ 01'57	-0°29'14	behind sun end	-12456 May 15 j 04:52	23° $\approx$ 46'23	
minimum elong	-12462 Nov 20 j 04:57	4° $\mathbb{P}$ 01'54	0°28'52	max. Earth dist.	-12456 May 13 j 22:25	23° $\approx$ 29'23	6.31049 AU
max. Earth dist.	-12462 Nov 21 j 08:31	4° $\mathbb{P}$ 18'00	6.08167 AU	morning rise	-12456 May 27 j 20:07	26° $\approx$ 35'44	
morning rise	-12462 Dec 03 j 19:07	7° $\mathbb{P}$ 11'57			-12456 Jun 12 j 08:36	0° $\mathbb{H}$	
retrograde	-12461 Apr 14 j 00:03	27° $\mathbb{P}$ 02'21		retrograde	-12456 Sep 25 j 14:35	13° $\mathbb{H}$ 58'10	
opposition	-12461 Jun 12 j 21:08	21° $\mathbb{P}$ 57'31	-1°27'46	opposition	-12456 Nov 24 j 21:10	9° $\mathbb{H}$ 06'03	0°55'54
min. Earth dist.	-12461 Jun 12 j 03:13	22° $\mathbb{P}$ 03'36	4.07595 AU	min. Earth dist.	-12456 Nov 25 j 14:45	9° $\mathbb{H}$ 00'24	4.32531 AU
direct	-12461 Aug 10 j 02:08	16° $\mathbb{P}$ 59'58		direct	-12455 Jan 26 j 06:23	4° $\mathbb{H}$ 05'08	
	-12461 Nov 16 j 09:41	0° $\underline{\Omega}$		evening set	-12455 Jun 02 j 18:05	22° $\mathbb{H}$ 14'01	
evening set	-12461 Dec 13 j 09:05	6° $\underline{\Omega}$ 04'37		max. Earth dist.	-12455 Jun 14 j 09:13	24° $\mathbb{H}$ 50'01	6.32982 AU
conjunction	-12461 Dec 27 j 01:15	9° $\underline{\Omega}$ 15'04	-1°22'12	conjunction	-12455 Jun 15 j 09:54	25° $\mathbb{H}$ 03'52	1°04'17
minimum elong	-12461 Dec 27 j 01:08	9° $\underline{\Omega}$ 15'00	1°22'18	minimum elong	-12455 Jun 15 j 09:48	25° $\mathbb{H}$ 03'48	1°04'13
max. Earth dist.	-12461 Dec 28 j 02:53	9° $\underline{\Omega}$ 29'58	6.07990 AU	morning rise	-12455 Jun 27 j 23:03	27° $\mathbb{H}$ 52'26	
morning rise	-12460 Jan 09 j 19:26	12° $\underline{\Omega}$ 26'26			-12455 Jul 07 j 13:51	0° $\mathbb{Y}$	
	-12460 Apr 12 j 08:58	0° $\mathbb{M}$		retrograde	-12455 Oct 27 j 18:18	15° $\mathbb{Y}$ 19'53	
retrograde	-12460 May 18 j 07:14	2° $\mathbb{M}$ 03'20		opposition	-12455 Dec 27 j 18:48	10° $\mathbb{Y}$ 27'55	2°03'48
	-12460 Jun 22 j 21:44	30° $\mathbb{R}$ $\underline{\Omega}$		min. Earth dist.	-12455 Dec 28 j 11:44	10° $\mathbb{Y}$ 22'33	4.32582 AU
opposition	-12460 Jul 16 j 12:20	26° $\underline{\Omega}$ 59'11	-2°26'31	direct	-12454 Feb 28 j 03:10	5° $\mathbb{Y}$ 30'08	
min. Earth dist.	-12460 Jul 15 j 22:07	27° $\underline{\Omega}$ 04'04	4.09651 AU	evening set	-12454 Jul 03 j 22:08	23° $\mathbb{Y}$ 30'25	
direct	-12460 Sep 13 j 01:58	21° $\underline{\Omega}$ 58'13		max. Earth dist.	-12454 Jul 15 j 10:28	26° $\mathbb{Y}$ 06'12	6.30999 AU
	-12460 Nov 26 j 23:03	0° $\mathbb{M}$					
evening set	-12459 Jan 18 j 13:01	11° $\mathbb{M}$ 11'38		conjunction	-12454 Jul 16 j 07:08	26° $\mathbb{Y}$ 17'53	1°39'11
				minimum elong	-12454 Jul 16 j 07:04	26° $\mathbb{Y}$ 17'51	1°39'30
conjunction	-12459 Feb 01 j 05:57	14° $\mathbb{M}$ 20'24	-1°45'12	morning rise	-12454 Jul 28 j 15:22	29° $\mathbb{Y}$ 04'58	
minimum elong	-12459 Feb 01 j 05:56	14° $\mathbb{M}$ 20'23	1°45'44		-12454 Aug 01 j 17:38	0° $\mathbb{Z}$	
max. Earth dist.	-12459 Feb 01 j 22:14	14° $\mathbb{M}$ 29'46	6.11980 AU		-12454 Oct 24 j 12:27	15° $\mathbb{Z}$	
	-12459 Feb 04 j 02:48	15° $\mathbb{M}$		retrograde	-12454 Nov 29 j 17:35	16° $\mathbb{Z}$ 57'18	
morning rise	-12459 Feb 14 j 22:29	17° $\mathbb{M}$ 28'53			-12453 Jan 05 j 07:09	15° $\mathbb{R}$ $\mathbb{Z}$	
	-12459 Apr 16 j 02:00	0° $\mathbb{Z}$		opposition	-12453 Jan 30 j 06:58	12° $\mathbb{Z}$ 03'35	2°35'52
retrograde	-12459 Jun 21 j 14:12	6° $\mathbb{Z}$ 29'46		min. Earth dist.	-12453 Jan 30 j 17:49	12° $\mathbb{Z}$ 00'08	4.28799 AU
opposition	-12459 Aug 19 j 09:55	1° $\mathbb{Z}$ 28'30	-2°32'24	direct	-12453 Apr 01 j 23:08	7° $\mathbb{Z}$ 08'36	
min. Earth dist.	-12459 Aug 19 j 05:02	1° $\mathbb{Z}$ 30'10	4.15238 AU		-12453 Jun 16 j 21:20	15° $\mathbb{Z}$	
	-12459 Aug 30 j 09:28	30° $\mathbb{R}$ $\mathbb{M}$		evening set	-12453 Aug 04 j 02:16	25° $\mathbb{Z}$ 09'24	
direct	-12459 Oct 17 j 23:20	26° $\mathbb{M}$ 25'02					
	-12459 Dec 05 j 17:08	0° $\mathbb{Z}$		conjunction	-12453 Aug 16 j 10:55	27° $\mathbb{Z}$ 58'35	1°45'01
evening set	-12458 Feb 23 j 22:28	15° $\mathbb{Z}$ 31'10		minimum elong	-12453 Aug 16 j 10:56	27° $\mathbb{Z}$ 58'36	1°45'40
				max. Earth dist.	-12453 Aug 16 j 02:30	27° $\mathbb{Z}$ 53'47	6.25637 AU
conjunction	-12458 Mar 09 j 12:53	18° $\mathbb{Z}$ 36'07	-1°31'01		-12453 Aug 25 j 07:24	0° $\mathbb{I}$	
minimum elong	-12458 Mar 09 j 12:58	18° $\mathbb{Z}$ 36'10	1°31'46	morning rise	-12453 Aug 28 j 20:21	0° $\mathbb{I}$ 48'22	
max. Earth dist.	-12458 Mar 09 j 12:32	18° $\mathbb{Z}$ 35'55	6.18668 AU	retrograde	-12452 Jan 02 j 19:51	19° $\mathbb{I}$ 18'16	
morning rise	-12458 Mar 23 j 01:14	21° $\mathbb{Z}$ 39'53		opposition	-12452 Mar 04 j 12:51	14° $\mathbb{I}$ 21'30	2°21'00
	-12458 Apr 30 j 18:19	0° $\Xi$		min. Earth dist.	-12452 Mar 04 j 14:16	14° $\mathbb{I}$ 21'03	4.22238 AU

Attention, astronomical year style is used: The year -12452 in astronomical counting style is the year 12453 BCE in historical counting style.

direct	-12452 May 04 j 03:11	9° $\Pi$ 28'23		minimum elong	-12446 Mar 14 j 13:33	23° $\Sigma$ 29'47	1°26'59
evening set	-12452 Sep 04 j 00:52	27° $\Pi$ 38'07		max. Earth dist.	-12446 Mar 14 j 11:24	23° $\Sigma$ 28'34	6.19519 AU
	-12452 Sep 14 j 06:42	0° $\Theta$		morning rise	-12446 Mar 28 j 01:05	26° $\Sigma$ 32'52	
					-12446 Apr 12 j 13:37	0° $\Sigma$	
conjunction	-12452 Sep 16 j 15:59	0° $\Theta$ 33'09	1°18'23	retrograde	-12446 Jul 29 j 06:17	14° $\Sigma$ 43'43	
minimum elong	-12452 Sep 16 j 16:05	0° $\Theta$ 33'13	1°19'10	opposition	-12446 Sep 26 j 06:38	9° $\Sigma$ 46'43	-1°37'10
max. Earth dist.	-12452 Sep 16 j 20:33	0° $\Theta$ 35'48	6.18460 AU	min. Earth dist.	-12446 Sep 26 j 13:00	9° $\Sigma$ 44'35	4.23264 AU
morning rise	-12452 Sep 29 j 09:59	3° $\Theta$ 29'46		direct	-12446 Nov 26 j 05:13	4° $\Sigma$ 42'25	
retrograde	-12451 Feb 06 j 01:23	22° $\Theta$ 40'00		evening set	-12445 Apr 04 j 13:28	23° $\Sigma$ 26'31	
opposition	-12451 Apr 08 j 10:10	17° $\Theta$ 39'31	1°19'58				
min. Earth dist.	-12451 Apr 08 j 01:07	17° $\Theta$ 42'28	4.14901 AU	conjunction	-12445 Apr 17 j 21:46	26° $\Sigma$ 25'53	-0°39'17
direct	-12451 Jun 06 j 19:56	12° $\Theta$ 46'24		minimum elong	-12445 Apr 17 j 21:50	26° $\Sigma$ 25'55	0°39'58
	-12451 Oct 02 j 04:30	0° $\Omega$		max. Earth dist.	-12445 Apr 17 j 06:10	26° $\Sigma$ 17'08	6.26661 AU
evening set	-12451 Oct 07 j 10:53	1° $\Omega$ 12'59		morning rise	-12445 May 01 j 02:39	29° $\Sigma$ 23'28	
					-12445 May 03 j 20:16	0° $\approx$	
conjunction	-12451 Oct 20 j 13:09	4° $\Omega$ 15'53	0°25'18		-12445 Jul 25 j 18:29	15° $\approx$	
minimum elong	-12451 Oct 20 j 13:11	4° $\Omega$ 15'55	0°25'56	retrograde	-12445 Aug 30 j 06:39	16° $\approx$ 59'19	
max. Earth dist.	-12451 Oct 21 j 08:40	4° $\Omega$ 27'15	6.11722 AU		-12445 Oct 05 j 00:33	15° $\approx$	
morning rise	-12451 Nov 02 j 18:55	7° $\Omega$ 20'46		opposition	-12445 Oct 28 j 22:10	12° $\approx$ 05'31	-0°16'43
	-12451 Dec 07 j 04:15	15° $\Omega$		min. Earth dist.	-12445 Oct 29 j 11:46	12° $\approx$ 01'04	4.29552 AU
retrograde	-12450 Mar 14 j 00:39	27° $\Omega$ 01'46		direct	-12445 Dec 29 j 20:14	7° $\approx$ 02'24	
desc. node	-12450 Mar 31 j 07:16	26° $\Omega$ 33'00		asc. node	-12444 Jan 12 j 21:27	7° $\approx$ 20'21	
opposition	-12450 May 13 j 15:18	21° $\Omega$ 58'14	-0°10'23		-12444 Mar 16 j 20:21	15° $\approx$	
min. Earth dist.	-12450 May 12 j 23:29	22° $\Omega$ 03'31	4.09279 AU	evening set	-12444 May 06 j 11:48	25° $\approx$ 24'49	
direct	-12450 Jul 11 j 03:09	17° $\Omega$ 03'21		max. Earth dist.	-12444 May 18 j 11:19	28° $\approx$ 05'09	6.31670 AU
	-12450 Oct 16 j 20:56	0° $\Pi$					
evening set	-12450 Nov 11 j 18:04	5° $\Pi$ 51'47		conjunction	-12444 May 19 j 11:30	28° $\approx$ 18'40	0°18'50
				minimum elong	-12444 May 19 j 11:28	28° $\approx$ 18'39	0°18'25
conjunction	-12450 Nov 25 j 05:52	9° $\Pi$ 00'39	-0°37'40		-12444 May 27 j 00:44	0° $\text{X}$	
minimum elong	-12450 Nov 25 j 05:48	9° $\Pi$ 00'36	0°37'23	morning rise	-12444 Jun 01 j 07:54	1° $\text{X}$ 10'49	
max. Earth dist.	-12450 Nov 26 j 07:54	9° $\Pi$ 15'51	6.07742 AU	retrograde	-12444 Sep 30 j 03:30	18° $\text{X}$ 32'01	
morning rise	-12450 Dec 08 j 21:04	12° $\Pi$ 11'15		opposition	-12444 Nov 29 j 12:35	13° $\text{X}$ 40'00	1°07'03
	-12449 Mar 13 j 20:21	0° $\underline{\Omega}$		min. Earth dist.	-12444 Nov 30 j 06:53	13° $\text{X}$ 34'08	4.32917 AU
retrograde	-12449 Apr 18 j 22:15	2° $\underline{\Omega}$ 02'13		direct	-12443 Jan 30 j 23:43	8° $\text{X}$ 39'28	
	-12449 May 24 j 16:35	30° $\text{R}$ $\Pi$		evening set	-12443 Jun 07 j 04:39	26° $\text{X}$ 45'59	
opposition	-12449 Jun 17 j 17:38	26° $\Pi$ 57'20	-1°38'29				
min. Earth dist.	-12449 Jun 16 j 23:38	27° $\Pi$ 03'28	4.07390 AU	conjunction	-12443 Jun 19 j 19:12	29° $\text{X}$ 35'14	1°10'40
direct	-12449 Aug 14 j 22:28	21° $\Pi$ 59'18		minimum elong	-12443 Jun 19 j 19:07	29° $\text{X}$ 35'11	1°10'38
	-12449 Oct 27 j 22:18	0° $\underline{\Omega}$		max. Earth dist.	-12443 Jun 18 j 17:47	29° $\text{X}$ 20'59	6.33062 AU
evening set	-12449 Dec 18 j 13:25	11° $\underline{\Omega}$ 07'05			-12443 Jun 21 j 15:22	0° $\Upsilon$	
				morning rise	-12443 Jul 02 j 07:27	2° $\Upsilon$ 23'21	
conjunction	-12448 Jan 01 j 06:08	14° $\underline{\Omega}$ 17'40	-1°27'29	retrograde	-12443 Nov 01 j 08:01	19° $\Upsilon$ 52'46	
minimum elong	-12448 Jan 01 j 06:01	14° $\underline{\Omega}$ 17'37	1°27'39	opposition	-12442 Jan 01 j 11:22	15° $\Upsilon$ 00'35	2°10'50
max. Earth dist.	-12448 Jan 02 j 07:52	14° $\underline{\Omega}$ 32'38	6.08027 AU	min. Earth dist.	-12442 Jan 02 j 03:29	14° $\Upsilon$ 55'28	4.32364 AU
morning rise	-12448 Jan 15 j 00:14	17° $\underline{\Omega}$ 28'58		direct	-12442 Mar 04 j 18:07	10° $\Upsilon$ 03'08	
	-12448 Mar 14 j 07:51	0° $\mathbb{L}$		evening set	-12442 Jul 08 j 07:23	28° $\Upsilon$ 02'40	
retrograde	-12448 May 23 j 06:04	7° $\mathbb{L}$ 03'14			-12442 Jul 16 j 23:31	0° $\text{B}$	
opposition	-12448 Jul 21 j 07:42	1° $\mathbb{L}$ 59'26	-2°30'41				
min. Earth dist.	-12448 Jul 20 j 19:11	2° $\mathbb{L}$ 03'43	4.09945 AU	conjunction	-12442 Jul 20 j 16:00	0° $\text{B}$ 50'05	1°41'55
	-12448 Aug 05 j 06:09	30° $\text{R}$ $\underline{\Omega}$		minimum elong	-12442 Jul 20 j 15:56	0° $\text{B}$ 50'03	1°42'18
direct	-12448 Sep 18 j 00:08	26° $\underline{\Omega}$ 58'04		max. Earth dist.	-12442 Jul 19 j 21:34	0° $\text{B}$ 39'39	6.30484 AU
	-12448 Oct 31 j 21:32	0° $\mathbb{L}$		morning rise	-12442 Aug 01 j 23:47	3° $\text{B}$ 37'13	
	-12447 Jan 18 j 10:08	15° $\mathbb{L}$			-12442 Sep 26 j 11:17	15° $\text{B}$	
evening set	-12447 Jan 23 j 17:48	16° $\mathbb{L}$ 12'37		retrograde	-12442 Dec 04 j 11:06	21° $\text{B}$ 33'59	
				opposition	-12441 Feb 04 j 01:38	16° $\text{B}$ 39'56	2°36'43
conjunction	-12447 Feb 06 j 10:34	19° $\mathbb{L}$ 21'06	-1°45'22	min. Earth dist.	-12441 Feb 04 j 11:56	16° $\text{B}$ 36'41	4.28019 AU
minimum elong	-12447 Feb 06 j 10:34	19° $\mathbb{L}$ 21'06	1°45'56		-12441 Feb 17 j 11:26	15° $\text{R}$ $\text{B}$	
max. Earth dist.	-12447 Feb 07 j 00:27	19° $\mathbb{L}$ 29'05	6.12493 AU	direct	-12441 Apr 06 j 15:18	11° $\text{B}$ 45'18	
morning rise	-12447 Feb 20 j 02:49	22° $\mathbb{L}$ 29'12			-12441 May 23 j 13:43	15° $\text{B}$	
	-12447 Mar 26 j 07:19	0° $\Sigma$		evening set	-12441 Aug 08 j 13:01	29° $\text{B}$ 46'53	
retrograde	-12447 Jun 26 j 07:26	11° $\Sigma$ 25'03			-12441 Aug 09 j 12:05	0° $\Pi$	
opposition	-12447 Aug 24 j 03:44	6° $\Sigma$ 24'15	-2°28'43				
min. Earth dist.	-12447 Aug 23 j 23:15	6° $\Sigma$ 25'46	4.15937 AU	conjunction	-12441 Aug 20 j 22:02	2° $\Pi$ 36'40	1°43'12
direct	-12447 Oct 22 j 20:04	1° $\Sigma$ 20'31		minimum elong	-12441 Aug 20 j 22:04	2° $\Pi$ 36'41	1°43'51
evening set	-12446 Feb 28 j 23:35	20° $\Sigma$ 25'20		max. Earth dist.	-12441 Aug 20 j 13:47	2° $\Pi$ 31'56	6.24643 AU
				morning rise	-12441 Sep 02 j 08:27	5° $\Pi$ 27'14	
conjunction	-12446 Mar 14 j 13:28	23° $\Sigma$ 29'44	-1°26'13	retrograde	-12440 Jan 07 j 17:32	24° $\Pi$ 03'08	



Attention, astronomical year style is used: The year -12440 in astronomical counting style is the year 12441 BCE in historical counting style.

opposition	-12440 Mar 09 j 10:08	19° $\Pi$ 05'50	2°14'59	conjunction	-12434 Mar 19 j 12:45	28° $\times$ 20'10	-1°20'54
min. Earth dist.	-12440 Mar 09 j 09:54	19° $\Pi$ 05'54	4.21085 AU	minimum elong	-12434 Mar 19 j 12:51	28° $\times$ 20'13	1°21'40
direct	-12440 May 08 j 19:57	14° $\Pi$ 12'46		max. Earth dist.	-12434 Mar 19 j 09:48	28° $\times$ 18'29	6.21165 AU
	-12440 Aug 29 j 01:48	0° $\mathfrak{C}$			-12434 Mar 26 j 21:24	0° $\mathfrak{C}$	
evening set	-12440 Sep 08 j 15:39	2° $\mathfrak{C}$ 24'54		morning rise	-12434 Apr 01 j 23:22	1° $\mathfrak{C}$ 22'13	
				retrograde	-12434 Aug 02 j 16:57	19° $\mathfrak{C}$ 25'02	
conjunction	-12440 Sep 21 j 08:23	5° $\mathfrak{C}$ 21'07	1°12'13	opposition	-12434 Sep 30 j 20:47	14° $\mathfrak{C}$ 28'31	-1°26'59
minimum elong	-12440 Sep 21 j 08:28	5° $\mathfrak{C}$ 21'10	1°12'59	min. Earth dist.	-12434 Oct 01 j 03:23	14° $\mathfrak{C}$ 26'19	4.24906 AU
max. Earth dist.	-12440 Sep 21 j 16:07	5° $\mathfrak{C}$ 25'36	6.17268 AU	direct	-12434 Nov 30 j 22:55	9° $\mathfrak{C}$ 24'19	
morning rise	-12440 Oct 04 j 03:51	8° $\mathfrak{C}$ 18'56		evening set	-12433 Apr 09 j 05:19	28° $\mathfrak{C}$ 02'53	
retrograde	-12439 Feb 11 j 04:02	27° $\mathfrak{C}$ 35'02			-12433 Apr 17 j 23:12	0° $\approx$	
opposition	-12439 Apr 13 j 09:48	22° $\mathfrak{C}$ 34'06	1°08'21				
min. Earth dist.	-12439 Apr 13 j 00:08	22° $\mathfrak{C}$ 37'16	4.13750 AU	conjunction	-12433 Apr 22 j 12:21	1° $\approx$ 01'09	-0°31'28
direct	-12439 Jun 11 j 15:43	17° $\mathfrak{C}$ 40'54		minimum elong	-12433 Apr 22 j 12:25	1° $\approx$ 01'11	0°32'08
	-12439 Sep 14 j 22:23	0° $\Omega$		max. Earth dist.	-12433 Apr 21 j 18:10	0° $\approx$ 50'57	6.28177 AU
evening set	-12439 Oct 12 j 08:38	6° $\Omega$ 11'10		morning rise	-12433 May 05 j 16:09	3° $\approx$ 57'40	
					-12433 Jun 28 j 17:38	15° $\approx$	
conjunction	-12439 Oct 25 j 12:19	9° $\Omega$ 15'11	0°16'28	retrograde	-12433 Sep 03 j 15:58	21° $\approx$ 28'06	
minimum elong	-12439 Oct 25 j 12:21	9° $\Omega$ 15'12	0°17'04	opposition	-12433 Nov 02 j 09:39	16° $\approx$ 34'40	-0°04'49
max. Earth dist.	-12439 Oct 26 j 07:55	9° $\Omega$ 26'38	6.10720 AU	min. Earth dist.	-12433 Nov 03 j 01:20	16° $\approx$ 29'34	4.30804 AU
morning rise	-12439 Nov 07 j 19:53	12° $\Omega$ 21'16			-12433 Nov 14 j 17:25	15° $\mathbb{R}$ $\approx$	
	-12439 Nov 19 j 08:20	15° $\Omega$		asc. node	-12433 Nov 24 j 08:37	13° $\approx$ 52'32	
desc. node	-12438 Feb 07 j 04:13	29° $\Omega$ 40'40		direct	-12432 Jan 03 j 12:07	11° $\approx$ 31'51	
	-12438 Feb 10 j 01:12	0° $\mathbb{P}$			-12432 Feb 22 j 00:50	15° $\approx$	
retrograde	-12438 Mar 19 j 03:06	2° $\mathbb{P}$ 06'08		evening set	-12432 May 10 j 20:51	29° $\approx$ 49'44	
	-12438 Apr 24 j 23:50	30° $\mathbb{R}$ $\Omega$			-12432 May 11 j 15:23	0° $\mathbb{H}$	
opposition	-12438 May 18 j 15:48	27° $\Omega$ 02'18	-0°23'55				
min. Earth dist.	-12438 May 17 j 22:34	27° $\Omega$ 08'05	4.08523 AU	conjunction	-12432 May 23 j 19:18	2° $\mathbb{H}$ 42'40	0°26'37
direct	-12438 Jul 16 j 00:52	22° $\Omega$ 07'04		minimum elong	-12432 May 23 j 19:16	2° $\mathbb{H}$ 42'39	0°26'16
	-12438 Sep 27 j 03:11	0° $\mathbb{P}$		max. Earth dist.	-12432 May 22 j 18:03	2° $\mathbb{H}$ 28'34	6.32548 AU
evening set	-12438 Nov 16 j 22:43	10° $\mathbb{P}$ 59'36		morning rise	-12432 Jun 05 j 14:23	5° $\mathbb{H}$ 33'56	
				retrograde	-12432 Oct 04 j 09:55	22° $\mathbb{H}$ 53'42	
conjunction	-12438 Nov 30 j 11:45	14° $\mathbb{P}$ 09'09	-0°46'08	opposition	-12432 Dec 03 j 22:55	18° $\mathbb{H}$ 01'47	1°17'18
minimum elong	-12438 Nov 30 j 11:40	14° $\mathbb{P}$ 09'06	0°45'55	min. Earth dist.	-12432 Dec 04 j 17:10	17° $\mathbb{H}$ 55'57	4.33378 AU
max. Earth dist.	-12438 Dec 01 j 15:51	14° $\mathbb{P}$ 25'35	6.07321 AU	direct	-12431 Feb 04 j 10:05	13° $\mathbb{H}$ 01'38	
morning rise	-12438 Dec 14 j 03:39	17° $\mathbb{P}$ 20'15			-12431 Jun 06 j 11:00	0° $\mathbb{Y}$	
	-12437 Feb 11 j 22:15	0° $\underline{\mathfrak{A}}$		evening set	-12431 Jun 11 j 10:06	1° $\mathbb{Y}$ 06'01	
retrograde	-12437 Apr 24 j 02:47	7° $\underline{\mathfrak{A}}$ 11'17					
opposition	-12437 Jun 22 j 17:57	2° $\underline{\mathfrak{A}}$ 06'29	-1°48'50	conjunction	-12431 Jun 23 j 23:32	3° $\mathbb{Y}$ 54'45	1°16'20
min. Earth dist.	-12437 Jun 22 j 00:41	2° $\underline{\mathfrak{A}}$ 12'23	4.07384 AU	minimum elong	-12431 Jun 23 j 23:26	3° $\mathbb{Y}$ 54'42	1°16'22
	-12437 Jul 08 j 17:16	30° $\mathbb{R}$ $\mathbb{P}$		max. Earth dist.	-12431 Jun 22 j 21:50	3° $\mathbb{Y}$ 40'19	6.33057 AU
direct	-12437 Aug 19 j 23:36	27° $\mathbb{P}$ 08'05		morning rise	-12431 Jul 06 j 10:50	6° $\mathbb{Y}$ 42'27	
	-12437 Oct 01 j 03:28	0° $\underline{\mathfrak{A}}$		retrograde	-12431 Nov 05 j 18:38	24° $\mathbb{Y}$ 14'31	
evening set	-12437 Dec 23 j 21:54	16° $\underline{\mathfrak{A}}$ 18'07		opposition	-12430 Jan 05 j 23:12	19° $\mathbb{Y}$ 22'15	2°16'49
				min. Earth dist.	-12430 Jan 06 j 16:22	19° $\mathbb{Y}$ 16'49	4.31901 AU
conjunction	-12436 Jan 06 j 14:47	19° $\underline{\mathfrak{A}}$ 28'36	-1°32'17	direct	-12430 Mar 09 j 05:19	14° $\mathbb{Y}$ 25'11	
minimum elong	-12436 Jan 06 j 14:41	19° $\underline{\mathfrak{A}}$ 28'33	1°32'31		-12430 Jul 01 j 15:57	0° $\mathfrak{B}$	
max. Earth dist.	-12436 Jan 07 j 15:43	19° $\underline{\mathfrak{A}}$ 43'04	6.08442 AU	evening set	-12430 Jul 12 j 12:18	2° $\mathfrak{B}$ 25'08	
morning rise	-12436 Jan 20 j 09:00	22° $\underline{\mathfrak{A}}$ 39'40					
	-12436 Feb 22 j 09:07	0° $\mathbb{M}$		conjunction	-12430 Jul 24 j 20:34	5° $\mathfrak{B}$ 12'44	1°43'56
retrograde	-12436 May 28 j 04:40	12° $\mathbb{M}$ 09'21		minimum elong	-12430 Jul 24 j 20:31	5° $\mathfrak{B}$ 12'42	1°44'22
opposition	-12436 Jul 26 j 05:40	7° $\mathbb{M}$ 05'54	-2°33'48	max. Earth dist.	-12430 Jul 24 j 01:22	5° $\mathfrak{B}$ 01'51	6.29576 AU
min. Earth dist.	-12436 Jul 25 j 16:37	7° $\mathbb{M}$ 10'23	4.10799 AU	morning rise	-12430 Aug 06 j 04:27	8° $\mathfrak{B}$ 00'13	
direct	-12436 Sep 23 j 00:03	2° $\mathbb{M}$ 04'13			-12430 Sep 07 j 10:26	15° $\mathfrak{B}$	
	-12436 Dec 31 j 15:01	15° $\mathbb{M}$		retrograde	-12430 Dec 09 j 01:27	26° $\mathfrak{B}$ 03'06	
evening set	-12435 Jan 29 j 00:25	21° $\mathbb{M}$ 17'29		opposition	-12429 Feb 08 j 16:49	21° $\mathfrak{B}$ 08'41	2°36'38
				min. Earth dist.	-12429 Feb 09 j 01:45	21° $\mathfrak{B}$ 05'51	4.26747 AU
conjunction	-12435 Feb 11 j 16:48	24° $\mathbb{M}$ 25'17	-1°44'46	direct	-12429 Apr 11 j 01:39	16° $\mathfrak{B}$ 14'18	
minimum elong	-12435 Feb 11 j 16:49	24° $\mathbb{M}$ 25'17	1°45'22		-12429 Jul 24 j 14:49	0° $\mathbb{I}$	
max. Earth dist.	-12435 Feb 12 j 05:11	24° $\mathbb{M}$ 32'22	6.13731 AU	evening set	-12429 Aug 12 j 20:59	4° $\mathbb{I}$ 18'38	
morning rise	-12435 Feb 25 j 08:27	27° $\mathbb{M}$ 32'33					
	-12435 Mar 08 j 05:49	0° $\times$		conjunction	-12429 Aug 25 j 06:53	7° $\mathbb{I}$ 09'22	1°40'45
retrograde	-12435 Jul 01 j 02:00	16° $\times$ 20'34		minimum elong	-12429 Aug 25 j 06:56	7° $\mathbb{I}$ 09'24	1°41'26
opposition	-12435 Aug 28 j 22:03	11° $\times$ 20'17	-2°23'56	max. Earth dist.	-12429 Aug 25 j 01:20	7° $\mathbb{I}$ 06'11	6.23122 AU
min. Earth dist.	-12435 Aug 28 j 19:24	11° $\times$ 21'11	4.17433 AU	morning rise	-12429 Sep 06 j 18:08	10° $\mathbb{I}$ 00'59	
direct	-12435 Oct 27 j 19:49	6° $\times$ 16'25		retrograde	-12428 Jan 12 j 15:54	28° $\mathbb{I}$ 44'48	
evening set	-12434 Mar 05 j 23:28	25° $\times$ 16'41		opposition	-12428 Mar 14 j 05:44	23° $\mathbb{I}$ 47'03	2°08'10

Attention, astronomical year style is used: The year -12428 in astronomical counting style is the year 12429 BCE in historical counting style.

min. Earth dist.	-12428 Mar 14 j 05:02	23° $\Pi$ 47'16	4.19425 AU	min. Earth dist.	-12423 Sep 02 j 13:09	16° $\text{X}$ 13'26	4.18685 AU
direct	-12428 May 13 j 11:21	18° $\Pi$ 54'06		direct	-12423 Nov 01 j 16:03	11° $\text{X}$ 08'44	
	-12428 Aug 11 j 23:13	0° $\text{E}$		evening set	-12422 Mar 10 j 22:17	0° $\text{O}$ 05'30	
evening set	-12428 Sep 13 j 06:11	7° $\text{E}$ 10'35			-12422 Mar 10 j 12:27	0° $\text{E}$	
conjunction	-12428 Sep 26 j 00:19	10° $\text{E}$ 08'10	1°05'33	conjunction	-12422 Mar 24 j 10:41	3° $\text{O}$ 08'10	-1°15'06
minimum elong	-12428 Sep 26 j 00:25	10° $\text{E}$ 08'13	1°06'18	minimum elong	-12422 Mar 24 j 10:47	3° $\text{O}$ 08'13	1°15'51
max. Earth dist.	-12428 Sep 26 j 08:51	10° $\text{E}$ 13'07	6.15631 AU	max. Earth dist.	-12422 Mar 24 j 03:54	3° $\text{O}$ 04'20	6.22395 AU
morning rise	-12428 Oct 08 j 21:43	13° $\text{E}$ 07'31		morning rise	-12422 Apr 06 j 20:35	6° $\text{O}$ 09'23	
	-12427 Jan 06 j 02:38	0° $\text{O}$		retrograde	-12422 Aug 07 j 06:30	24° $\text{O}$ 06'08	
retrograde	-12427 Feb 16 j 04:51	2° $\text{O}$ 30'54		opposition	-12422 Oct 05 j 11:31	19° $\text{O}$ 10'07	-1°16'20
	-12427 Mar 29 j 08:25	30° $\text{R}$ $\text{E}$		min. Earth dist.	-12422 Oct 05 j 20:33	19° $\text{O}$ 07'07	4.25991 AU
opposition	-12427 Apr 18 j 08:55	27° $\text{E}$ 29'26	0°56'12	direct	-12422 Dec 05 j 18:53	14° $\text{O}$ 05'59	
min. Earth dist.	-12427 Apr 17 j 20:49	27° $\text{E}$ 33'24	4.12276 AU		-12421 Apr 01 j 16:49	0° $\approx$	
direct	-12427 Jun 16 j 09:37	22° $\text{E}$ 36'02		evening set	-12421 Apr 13 j 21:52	2° $\approx$ 41'03	
	-12427 Aug 26 j 06:32	0° $\text{O}$		max. Earth dist.	-12421 Apr 26 j 09:09	5° $\approx$ 28'02	6.29050 AU
evening set	-12427 Oct 17 j 07:10	11° $\text{O}$ 11'12					
conjunction	-12427 Oct 30 j 12:38	14° $\text{O}$ 16'30	0°07'28	conjunction	-12421 Apr 27 j 03:58	5° $\approx$ 38'34	-0°23'24
minimum elong	-12427 Oct 30 j 12:39	14° $\text{O}$ 16'30	0°08'02	minimum elong	-12421 Apr 27 j 04:01	5° $\approx$ 38'35	0°24'02
behind sun begin	-12427 Oct 30 j 05:20	14° $\text{O}$ 12'14		morning rise	-12421 May 10 j 06:28	8° $\approx$ 34'15	
behind sun end	-12427 Oct 30 j 19:59	14° $\text{O}$ 20'46			-12421 Jun 09 j 03:54	15° $\approx$	
max. Earth dist.	-12427 Oct 31 j 11:51	14° $\text{O}$ 30'05	6.09559 AU	retrograde	-12421 Sep 08 j 02:08	26° $\approx$ 01'39	
	-12427 Nov 02 j 15:00	15° $\text{O}$		asc. node	-12421 Oct 04 j 09:22	24° $\approx$ 55'55	
morning rise	-12427 Nov 12 j 21:39	17° $\text{O}$ 23'46		opposition	-12421 Nov 06 j 23:18	21° $\approx$ 08'33	0°07'19
desc. node	-12427 Dec 16 j 12:24	24° $\text{O}$ 54'35		min. Earth dist.	-12421 Nov 07 j 15:04	21° $\approx$ 03'26	4.31407 AU
	-12426 Jan 11 j 10:40	0° $\text{O}$		direct	-12420 Jan 08 j 03:06	16° $\approx$ 06'04	
retrograde	-12426 Mar 24 j 08:26	7° $\text{O}$ 12'34			-12420 Apr 25 j 07:18	0° $\text{H}$	
opposition	-12426 May 23 j 16:52	2° $\text{O}$ 08'23	-0°37'22	evening set	-12420 May 15 j 09:04	4° $\text{H}$ 21'41	
min. Earth dist.	-12426 May 22 j 23:27	2° $\text{O}$ 14'14	4.07787 AU	max. Earth dist.	-12420 May 27 j 03:04	6° $\text{H}$ 58'50	6.32832 AU
	-12426 Jun 09 j 03:59	30° $\text{R}$ $\text{O}$		conjunction	-12420 May 28 j 06:04	7° $\text{H}$ 13'55	0°34'29
direct	-12426 Jul 21 j 00:58	27° $\text{O}$ 12'44		minimum elong	-12420 May 28 j 06:00	7° $\text{H}$ 13'53	0°34'10
	-12426 Aug 31 j 11:50	0° $\text{O}$		morning rise	-12420 Jun 10 j 00:04	10° $\text{H}$ 04'36	
evening set	-12426 Nov 22 j 04:18	16° $\text{O}$ 08'56		retrograde	-12420 Oct 08 j 23:38	27° $\text{H}$ 24'58	
conjunction	-12426 Dec 05 j 18:08	19° $\text{O}$ 18'57	-0°54'16	opposition	-12420 Dec 08 j 13:55	22° $\text{H}$ 33'11	1°27'32
minimum elong	-12426 Dec 05 j 18:02	19° $\text{O}$ 18'54	0°54'07	min. Earth dist.	-12420 Dec 09 j 09:27	22° $\text{H}$ 26'57	4.33336 AU
max. Earth dist.	-12426 Dec 06 j 22:50	19° $\text{O}$ 35'43	6.07046 AU	direct	-12419 Feb 09 j 02:13	17° $\text{H}$ 33'26	
morning rise	-12426 Dec 19 j 10:53	22° $\text{O}$ 30'27			-12419 May 20 j 21:20	0° $\text{Y}$	
	-12425 Jan 21 j 23:22	0° $\text{O}$		evening set	-12419 Jun 15 j 19:52	5° $\text{Y}$ 37'05	
retrograde	-12425 Apr 29 j 04:11	12° $\text{O}$ 20'10		max. Earth dist.	-12419 Jun 27 j 07:16	8° $\text{Y}$ 11'25	6.32676 AU
opposition	-12425 Jun 27 j 17:42	7° $\text{O}$ 15'18	-1°58'19	conjunction	-12419 Jun 28 j 08:23	8° $\text{Y}$ 25'31	1°21'50
min. Earth dist.	-12425 Jun 26 j 23:22	7° $\text{O}$ 21'34	4.07607 AU	minimum elong	-12419 Jun 28 j 08:17	8° $\text{Y}$ 25'28	1°21'55
direct	-12425 Aug 24 j 23:29	2° $\text{O}$ 16'21		morning rise	-12419 Jul 10 j 18:51	11° $\text{Y}$ 13'01	
evening set	-12425 Dec 29 j 05:58	21° $\text{O}$ 27'27		retrograde	-12419 Nov 10 j 09:24	28° $\text{Y}$ 48'57	
conjunction	-12424 Jan 11 j 22:56	24° $\text{O}$ 37'38	-1°36'22	opposition	-12418 Jan 10 j 16:38	23° $\text{Y}$ 56'32	2°22'20
minimum elong	-12424 Jan 11 j 22:51	24° $\text{O}$ 37'35	1°36'40	min. Earth dist.	-12418 Jan 11 j 08:07	23° $\text{Y}$ 51'38	4.31243 AU
max. Earth dist.	-12424 Jan 12 j 22:47	24° $\text{O}$ 51'27	6.09085 AU	direct	-12418 Mar 13 j 19:12	18° $\text{Y}$ 59'57	
morning rise	-12424 Jan 25 j 16:56	27° $\text{O}$ 48'13			-12418 Jun 14 j 13:58	0° $\text{B}$	
	-12424 Feb 04 j 07:54	0° $\text{M}$		evening set	-12418 Jul 16 j 22:34	7° $\text{B}$ 00'37	
	-12424 Apr 25 j 22:22	15° $\text{M}$		conjunction	-12418 Jul 29 j 06:37	9° $\text{B}$ 48'26	1°45'28
retrograde	-12424 Jun 02 j 02:42	17° $\text{M}$ 12'12		minimum elong	-12418 Jul 29 j 06:35	9° $\text{B}$ 48'25	1°45'56
	-12424 Jul 08 j 22:35	15° $\text{R}$ $\text{M}$		max. Earth dist.	-12418 Jul 28 j 13:36	9° $\text{B}$ 38'46	6.28699 AU
opposition	-12424 Jul 31 j 02:20	12° $\text{M}$ 09'01	-2°35'46	morning rise	-12418 Aug 10 j 14:28	12° $\text{B}$ 36'17	
min. Earth dist.	-12424 Jul 30 j 15:10	12° $\text{M}$ 12'51	4.11761 AU		-12418 Aug 21 j 07:13	15° $\text{B}$	
direct	-12424 Sep 28 j 01:08	7° $\text{M}$ 06'51			-12418 Nov 21 j 17:04	0° $\text{I}$	
	-12424 Dec 11 j 15:39	15° $\text{M}$		retrograde	-12418 Dec 13 j 23:05	0° $\text{I}$ 44'59	
evening set	-12423 Feb 03 j 05:17	26° $\text{M}$ 18'18			-12417 Jan 05 j 03:58	30° $\text{R}$ $\text{B}$	
conjunction	-12423 Feb 16 j 21:29	29° $\text{M}$ 25'28	-1°43'27	opposition	-12417 Feb 13 j 13:32	25° $\text{B}$ 50'16	2°35'34
minimum elong	-12423 Feb 16 j 21:30	29° $\text{M}$ 25'29	1°44'06	min. Earth dist.	-12417 Feb 13 j 21:58	25° $\text{B}$ 47'35	4.25724 AU
max. Earth dist.	-12423 Feb 17 j 08:46	29° $\text{M}$ 31'55	6.14901 AU	direct	-12417 Apr 15 j 19:30	20° $\text{B}$ 56'14	
	-12423 Feb 19 j 09:54	0° $\text{X}$			-12417 Jul 06 j 11:22	0° $\text{I}$	
morning rise	-12423 Mar 02 j 12:25	2° $\text{X}$ 31'56		evening set	-12417 Aug 17 j 09:58	9° $\text{I}$ 02'11	
retrograde	-12423 Jul 05 j 17:44	21° $\text{X}$ 12'32		conjunction	-12417 Aug 29 j 20:38	11° $\text{I}$ 53'43	1°37'35
opposition	-12423 Sep 02 j 15:10	16° $\text{X}$ 12'45	-2°18'17	minimum elong	-12417 Aug 29 j 20:41	11° $\text{I}$ 53'45	1°38'19

Attention, astronomical year style is used: The year -12417 in astronomical counting style is the year 12418 BCE in historical counting style.

max. Earth dist.	-12417 Aug 29 j 16:35	11° $\Pi$ 51'23	6.22066 AU	max. Earth dist.	-12411 Feb 22 j 04:19	4° $\text{𐤆}$ 19'53	6.15829 AU
morning rise	-12417 Sep 11 j 09:07	14° $\Pi$ 46'18		morning rise	-12411 Mar 07 j 12:04	7° $\text{𐤆}$ 21'51	
	-12417 Nov 28 j 17:09	0° $\text{𐤆}$		retrograde	-12411 Jul 10 j 07:27	25° $\text{𐤆}$ 56'33	
retrograde	-12416 Jan 17 j 14:47	3° $\text{𐤆}$ 35'59		opposition	-12411 Sep 07 j 05:07	20° $\text{𐤆}$ 57'18	-2°11'57
	-12416 Mar 08 j 10:25	30° $\text{𐤆}$ 11		min. Earth dist.	-12411 Sep 07 j 05:36	20° $\text{𐤆}$ 57'08	4.19543 AU
opposition	-12416 Mar 19 j 04:55	28° $\Pi$ 37'43	2°00'15	direct	-12411 Nov 06 j 11:12	15° $\text{𐤆}$ 53'05	
min. Earth dist.	-12416 Mar 19 j 01:18	28° $\Pi$ 38'53	4.18435 AU		-12410 Feb 21 j 20:54	0° $\text{𐤆}$	
direct	-12416 May 18 j 05:06	23° $\Pi$ 44'54		evening set	-12410 Mar 15 j 17:56	4° $\text{𐤆}$ 47'57	
	-12416 Jul 22 j 12:31	0° $\text{𐤆}$					
evening set	-12416 Sep 17 j 23:38	12° $\text{𐤆}$ 03'17		conjunction	-12410 Mar 29 j 05:53	7° $\text{𐤆}$ 50'07	-1°08'57
				minimum elong	-12410 Mar 29 j 05:59	7° $\text{𐤆}$ 50'10	1°09'42
conjunction	-12416 Sep 30 j 19:23	15° $\text{𐤆}$ 01'56	0°58'21	max. Earth dist.	-12410 Mar 28 j 21:51	7° $\text{𐤆}$ 45'35	6.23142 AU
minimum elong	-12416 Sep 30 j 19:28	15° $\text{𐤆}$ 01'59	0°59'05	morning rise	-12410 Apr 11 j 14:49	10° $\text{𐤆}$ 50'42	
max. Earth dist.	-12416 Oct 01 j 07:36	15° $\text{𐤆}$ 09'02	6.14820 AU	retrograde	-12410 Aug 11 j 17:56	28° $\text{𐤆}$ 43'20	
morning rise	-12416 Oct 13 j 18:17	18° $\text{𐤆}$ 02'22		opposition	-12410 Oct 10 j 00:32	23° $\text{𐤆}$ 47'50	-1°05'24
	-12416 Dec 09 j 06:50	0° $\Omega$		min. Earth dist.	-12410 Oct 10 j 10:24	23° $\text{𐤆}$ 44'34	4.26559 AU
retrograde	-12415 Feb 21 j 07:51	7° $\Omega$ 29'39		direct	-12410 Dec 10 j 10:22	18° $\text{𐤆}$ 43'51	
opposition	-12415 Apr 23 j 09:04	2° $\Omega$ 27'43	0°43'34		-12409 Mar 15 j 09:17	0° $\approx$	
min. Earth dist.	-12415 Apr 22 j 20:29	2° $\Omega$ 31'53	4.11698 AU	evening set	-12409 Apr 18 j 13:11	7° $\approx$ 17'16	
	-12415 May 12 j 23:09	30° $\text{𐤆}$ 34'08					
direct	-12415 Jun 21 j 08:05	27° $\text{𐤆}$ 34'08		conjunction	-12409 May 01 j 18:05	10° $\approx$ 14'11	-0°15'16
	-12415 Jul 30 j 03:58	0° $\Omega$		minimum elong	-12409 May 01 j 18:07	10° $\approx$ 14'12	0°15'51
	-12415 Oct 17 j 03:17	15° $\Omega$		behind sun begin	-12409 May 01 j 17:00	10° $\approx$ 13'35	
evening set	-12415 Oct 22 j 06:11	16° $\Omega$ 11'10		behind sun end	-12409 May 01 j 19:14	10° $\approx$ 14'49	
desc. node	-12415 Oct 25 j 13:46	16° $\Omega$ 57'29		max. Earth dist.	-12409 Apr 30 j 20:18	10° $\approx$ 02'00	6.29404 AU
				morning rise	-12409 May 14 j 19:42	13° $\approx$ 09'21	
conjunction	-12415 Nov 04 j 12:56	19° $\Omega$ 17'11	-0°01'37		-12409 May 23 j 03:55	15° $\approx$	
minimum elong	-12415 Nov 04 j 12:56	19° $\Omega$ 17'11	0°01'06	asc. node	-12409 Aug 14 j 02:07	29° $\approx$ 12'57	
behind sun begin	-12415 Nov 04 j 04:40	19° $\Omega$ 12'22			-12409 Aug 24 j 09:18	0° $\text{𐤆}$	
behind sun end	-12415 Nov 04 j 21:11	19° $\Omega$ 21'59		retrograde	-12409 Sep 12 j 15:15	0° $\text{𐤆}$ 35'40	
max. Earth dist.	-12415 Nov 05 j 13:05	19° $\Omega$ 31'17	6.09271 AU		-12409 Oct 01 j 20:38	30° $\text{𐤆}$ 34	
morning rise	-12415 Nov 17 j 23:25	22° $\Omega$ 25'11		opposition	-12409 Nov 11 j 13:30	25° $\approx$ 42'51	0°19'22
	-12415 Dec 21 j 21:58	0° $\text{𐤆}$		min. Earth dist.	-12409 Nov 12 j 06:42	25° $\approx$ 37'16	4.31531 AU
retrograde	-12414 Mar 29 j 08:38	12° $\text{𐤆}$ 14'17		direct	-12408 Jan 12 j 19:33	20° $\approx$ 40'38	
opposition	-12414 May 28 j 15:18	7° $\text{𐤆}$ 09'53	-0°50'16		-12408 Apr 07 j 05:45	0° $\text{𐤆}$	
min. Earth dist.	-12414 May 27 j 20:38	7° $\text{𐤆}$ 16'11	4.07827 AU	evening set	-12408 May 19 j 21:13	8° $\text{𐤆}$ 55'20	
direct	-12414 Jul 25 j 21:42	2° $\text{𐤆}$ 13'49					
evening set	-12414 Nov 27 j 07:25	21° $\text{𐤆}$ 11'25		conjunction	-12408 Jun 01 j 17:09	11° $\text{𐤆}$ 47'06	0°42'10
				minimum elong	-12408 Jun 01 j 17:05	11° $\text{𐤆}$ 47'04	0°41'54
conjunction	-12414 Dec 10 j 21:55	24° $\text{𐤆}$ 21'32	-1°01'47	max. Earth dist.	-12408 May 31 j 15:31	11° $\text{𐤆}$ 32'45	6.32725 AU
minimum elong	-12414 Dec 10 j 21:49	24° $\text{𐤆}$ 21'28	1°01'41	morning rise	-12408 Jun 14 j 09:51	14° $\text{𐤆}$ 37'18	
max. Earth dist.	-12414 Dec 12 j 02:12	24° $\text{𐤆}$ 38'02	6.07385 AU		-12408 Sep 07 j 10:28	0° $\text{𐤆}$	
morning rise	-12414 Dec 24 j 15:05	27° $\text{𐤆}$ 32'59		retrograde	-12408 Oct 13 j 12:49	1° $\text{𐤆}$ 59'31	
	-12413 Jan 04 j 07:18	0° $\text{𐤆}$			-12408 Nov 19 j 01:51	30° $\text{𐤆}$ 34	
retrograde	-12413 May 04 j 02:27	17° $\text{𐤆}$ 19'28		opposition	-12408 Dec 13 j 06:09	27° $\text{𐤆}$ 07'44	1°37'19
opposition	-12413 Jul 02 j 13:21	12° $\text{𐤆}$ 14'40	-2°06'34	min. Earth dist.	-12408 Dec 14 j 00:22	27° $\text{𐤆}$ 01'56	4.33036 AU
min. Earth dist.	-12413 Jul 01 j 20:36	12° $\text{𐤆}$ 20'25	4.08206 AU	direct	-12407 Feb 13 j 16:45	22° $\text{𐤆}$ 08'28	
direct	-12413 Aug 29 j 21:39	7° $\text{𐤆}$ 15'12			-12407 May 01 j 23:58	0° $\text{𐤆}$	
evening set	-12412 Jan 03 j 09:29	26° $\text{𐤆}$ 26'24		evening set	-12407 Jun 20 j 06:57	10° $\text{𐤆}$ 11'50	
conjunction	-12412 Jan 17 j 02:36	29° $\text{𐤆}$ 36'14	-1°39'36	conjunction	-12407 Jul 02 j 18:23	12° $\text{𐤆}$ 59'59	1°26'52
minimum elong	-12412 Jan 17 j 02:32	29° $\text{𐤆}$ 36'12	1°39'57	minimum elong	-12407 Jul 02 j 18:17	12° $\text{𐤆}$ 59'56	1°27'02
max. Earth dist.	-12412 Jan 18 j 01:35	29° $\text{𐤆}$ 49'31	6.09871 AU	max. Earth dist.	-12407 Jul 01 j 17:55	12° $\text{𐤆}$ 46'13	6.32193 AU
	-12412 Jan 18 j 19:43	0° $\text{𐤆}$		morning rise	-12407 Jul 15 j 04:13	15° $\text{𐤆}$ 47'22	
morning rise	-12412 Jan 30 j 20:15	2° $\text{𐤆}$ 46'17			-12407 Sep 27 j 12:55	0° $\text{𐤆}$	
	-12412 Mar 28 j 22:37	15° $\text{𐤆}$		retrograde	-12407 Nov 15 j 04:03	3° $\text{𐤆}$ 27'14	
retrograde	-12412 Jun 06 j 19:45	22° $\text{𐤆}$ 04'31			-12406 Jan 04 j 01:24	30° $\text{𐤆}$ 34	
opposition	-12412 Aug 04 j 18:42	17° $\text{𐤆}$ 01'45	-2°36'33	opposition	-12406 Jan 15 j 11:46	28° $\text{𐤆}$ 34'33	2°27'01
min. Earth dist.	-12412 Aug 04 j 08:34	17° $\text{𐤆}$ 05'13	4.12665 AU	min. Earth dist.	-12406 Jan 16 j 02:54	28° $\text{𐤆}$ 29'46	4.30622 AU
	-12412 Aug 20 j 01:26	15° $\text{𐤆}$		direct	-12406 Mar 18 j 12:46	23° $\text{𐤆}$ 38'20	
direct	-12412 Oct 02 j 19:36	11° $\text{𐤆}$ 59'15			-12406 May 25 j 11:38	0° $\text{𐤆}$	
	-12412 Nov 15 j 22:35	15° $\text{𐤆}$		evening set	-12406 Jul 21 j 09:41	11° $\text{𐤆}$ 39'05	
	-12411 Feb 03 j 02:58	0° $\text{𐤆}$					
evening set	-12411 Feb 08 j 05:51	1° $\text{𐤆}$ 09'24		conjunction	-12406 Aug 02 j 17:43	14° $\text{𐤆}$ 27'09	1°46'21
				minimum elong	-12406 Aug 02 j 17:42	14° $\text{𐤆}$ 27'08	1°46'52
conjunction	-12411 Feb 21 j 21:32	4° $\text{𐤆}$ 16'01	-1°41'28	max. Earth dist.	-12406 Aug 02 j 03:00	14° $\text{𐤆}$ 18'46	6.27972 AU
minimum elong	-12411 Feb 21 j 21:35	4° $\text{𐤆}$ 16'02	1°42'09		-12406 Aug 05 j 03:25	15° $\text{𐤆}$	

Attention, astronomical year style is used: The year -12406 in astronomical counting style is the year 12407 BCE in historical counting style.

morning rise	-12406 Aug 15 j 01:46	17°♄15'21	opposition	-12400 Aug 09 j 11:50	21°♌55'48	-2°36'17
	-12406 Oct 17 j 05:08	0°♈	min. Earth dist.	-12400 Aug 09 j 03:25	21°♌58'41	4.13386 AU
retrograde	-12406 Dec 18 j 18:41	5°♈28'59	direct	-12400 Oct 07 j 16:47	16°♌52'57	
opposition	-12405 Feb 18 j 11:01	0°♈33'44	2°33'28	-12399 Jan 16 j 21:53	0°♈	
min. Earth dist.	-12405 Feb 18 j 16:42	0°♈31'56	4.24946 AU	evening set	-12399 Feb 13 j 07:12	6°♈02'20
	-12405 Feb 22 j 21:20	30°♈				
direct	-12405 Apr 20 j 12:21	25°♈39'59		conjunction	-12399 Feb 26 j 22:43	9°♈08'32 -1°38'46
	-12405 Jun 13 j 21:03	0°♈		minimum elong	-12399 Feb 26 j 22:46	9°♈08'34 1°39'27
evening set	-12405 Aug 21 j 23:12	13°♈46'22		max. Earth dist.	-12399 Feb 27 j 04:22	9°♈11'45 6.16638 AU
				morning rise	-12399 Mar 12 j 12:29	12°♈13'45
conjunction	-12405 Sep 03 j 10:44	16°♈38'36	1°33'47		-12399 Jun 24 j 03:33	0°♈
minimum elong	-12405 Sep 03 j 10:49	16°♈38'39	1°34'32	retrograde	-12399 Jul 14 j 23:03	0°♈42'57
max. Earth dist.	-12405 Sep 03 j 09:28	16°♈37'53	6.21286 AU		-12399 Aug 04 j 14:43	30°♈
morning rise	-12405 Sep 16 j 00:17	19°♈32'00		opposition	-12399 Sep 11 j 20:29	25°♈44'18 -2°04'40
	-12405 Nov 04 j 03:26	0°♈		min. Earth dist.	-12399 Sep 11 j 22:22	25°♈43'40 4.20349 AU
retrograde	-12404 Jan 22 j 15:19	8°♈26'25		direct	-12399 Nov 11 j 06:06	20°♈40'04
opposition	-12404 Mar 24 j 03:53	3°♈27'35	1°51'30			
min. Earth dist.	-12404 Mar 23 j 23:36	3°♈28'59	4.17676 AU			
	-12404 Apr 22 j 23:46	30°♈				
direct	-12404 May 23 j 01:38	28°♈34'45				
	-12404 Jun 21 j 21:00	0°♈				
evening set	-12404 Sep 22 j 17:01	16°♈54'22				
conjunction	-12404 Oct 05 j 14:13	19°♈53'58	0°50'47			
minimum elong	-12404 Oct 05 j 14:18	19°♈54'01	0°51'30			
max. Earth dist.	-12404 Oct 06 j 03:59	20°♈01'59	6.14159 AU			
morning rise	-12404 Oct 18 j 14:50	22°♈55'27				
	-12404 Nov 19 j 08:24	0°♈				
retrograde	-12403 Feb 26 j 07:53	12°♈25'50				
opposition	-12403 Apr 28 j 07:52	7°♈23'30	0°30'42			
min. Earth dist.	-12403 Apr 27 j 17:36	7°♈28'13	4.11193 AU			
direct	-12403 Jun 26 j 03:19	2°♈29'41				
desc. node	-12403 Sep 04 j 08:49	9°♈48'07				
	-12403 Sep 30 j 00:16	15°♈				
evening set	-12403 Oct 27 j 04:53	21°♈08'45				
conjunction	-12403 Nov 09 j 12:57	24°♈15'29	-0°10'33			
minimum elong	-12403 Nov 09 j 12:55	24°♈15'28	0°10'06			
behind sun begin	-12403 Nov 09 j 06:19	24°♈11'37				
behind sun end	-12403 Nov 09 j 19:32	24°♈19'18				
max. Earth dist.	-12403 Nov 10 j 13:50	24°♈30'01	6.08965 AU			
morning rise	-12403 Nov 23 j 00:38	27°♈24'08				
	-12403 Dec 04 j 07:55	0°♈				
retrograde	-12402 Apr 03 j 09:32	17°♈13'53				
opposition	-12402 Jun 02 j 13:07	12°♈09'16	-1°02'45			
min. Earth dist.	-12402 Jun 01 j 19:02	12°♈15'24	4.07749 AU			
direct	-12402 Jul 30 j 19:45	7°♈12'44				
evening set	-12402 Dec 02 j 10:22	26°♈12'25				
conjunction	-12402 Dec 16 j 01:35	29°♈22'42	-1°08'50			
minimum elong	-12402 Dec 16 j 01:28	29°♈22'38	1°08'48			
max. Earth dist.	-12402 Dec 17 j 06:21	29°♈39'28	6.07539 AU			
	-12402 Dec 18 j 17:36	0°♈				
morning rise	-12402 Dec 29 j 19:04	2°♈34'10				
retrograde	-12401 May 09 j 00:12	22°♈18'04				
opposition	-12401 Jul 07 j 08:57	17°♈13'29	-2°13'56			
min. Earth dist.	-12401 Jul 06 j 16:48	17°♈19'01	4.08610 AU			
direct	-12401 Sep 03 j 17:52	12°♈13'35				
	-12400 Jan 02 j 07:37	0°♈				
evening set	-12400 Jan 08 j 13:46	1°♈25'45				
conjunction	-12400 Jan 22 j 06:43	4°♈35'15	-1°42'07			
minimum elong	-12400 Jan 22 j 06:39	4°♈35'13	1°42'31			
max. Earth dist.	-12400 Jan 23 j 02:11	4°♈46'30	6.10459 AU			
morning rise	-12400 Feb 05 j 00:14	7°♈44'54				
	-12400 Mar 08 j 18:46	15°♈				
retrograde	-12400 Jun 11 j 13:26	26°♈58'09				