Attention, astronomical year style is used: The year -3900 in astronomical counting style is the year 3901 BCE in historical counting style.

retrograde	-3900 Jan 15 j 17:53	11°♑37'11		
opposition	-3900 Mar 31 j 12:18	9°♑36'56	0°49'14	
min. Earth dist.	-3900 Mar 31 j 08:32	9°♑37'19	17.88833 AU	
direct	-3900 Jun 16 j 17:37	7°♑34'41		
evening set	-3900 Sep 18 j 10:10	10°♑54'20		
conjunction	-3900 Oct 04 j 01:43	11°♑51'55	0°43'25	
minimum elong	-3900 Oct 04 j 01:43	11°♑51'55	0°43'29	
max. Earth dist.	-3900 Oct 04 j 05:57	11°♑52'34	19.91983 AU	
morning rise	-3900 Oct 19 j 15:57	12°♑49'18		
retrograde	-3899 Jan 19 j 12:05	16°♑05'39		
opposition	-3899 Apr 05 j 10:59	14°♑05'27	0°47'14	
min. Earth dist.	-3899 Apr 05 j 05:14	14°♑06'02	17.95152 AU	
direct	-3899 Jun 21 j 14:34	12°♑03'34		
evening set	-3899 Sep 23 j 01:13	15°♑21'56		
conjunction	-3899 Oct 08 j 16:23	16°♑19'13	0°41'30	
minimum elong	-3899 Oct 08 j 16:23	16°♑19'13	0°41'33	
max. Earth dist.	-3899 Oct 08 j 23:37	16°♑20'20	19.98330 AU	
morning rise	-3899 Oct 24 j 06:14	17°♑16'21		
retrograde	-3898 Jan 24 j 05:22	20°♑32'08		
opposition	-3898 Apr 10 j 08:52	18°♑31'59	0°44'56	
min. Earth dist.	-3898 Apr 10 j 00:52	18°♑32'48	18.01514 AU	
direct	-3898 Jun 26 j 13:06	16°♑30'28		
evening set	-3898 Sep 27 j 15:20	19°♑47'29		
conjunction	-3898 Oct 13 j 05:54	20°♑44'30	0°39'21	
minimum elong	-3898 Oct 13 j 05:54	20°♑44'30	0°39'23	
max. Earth dist.	-3898 Oct 13 j 14:24	20°♑45'48	20.04721 AU	
morning rise	-3898 Oct 28 j 19:45	21°♑41'23		
retrograde	-3897 Jan 28 j 21:54	24°♑56'36		
opposition	-3897 Apr 15 j 06:00	22°♑56'28	0°42'25	
min. Earth dist.	-3897 Apr 14 j 20:19	22°♑57'27	18.07939 AU	
direct	-3897 Jul 01 j 08:14	20°♑55'17		
evening set	-3897 Oct 02 j 04:24	24°♑10'58		
conjunction	-3897 Oct 17 j 18:42	25°♑07'42	0°36'59	
minimum elong	-3897 Oct 17 j 18:42	25°♑07'42	0°36'59	
max. Earth dist.	-3897 Oct 18 j 06:07	25°♑09'26	20.11172 AU	
morning rise	-3897 Nov 02 j 08:19	26°♑04'21		
retrograde	-3896 Feb 02 j 13:10	29°♑18'59		
opposition	-3896 Apr 19 j 02:11	27°♑18'52	0°39'39	
min. Earth dist.	-3896 Apr 18 j 13:53	27°♑20'08	18.14416 AU	
direct	-3896 Jul 05 j 05:07	25°♑18'03		
evening set	-3896 Oct 05 j 16:44	28°♑32'24		
conjunction	-3896 Oct 21 j 06:34	29°♑28'52	0°34'25	
minimum elong	-3896 Oct 21 j 06:34	29°♑28'52	0°34'26	
max. Earth dist.	-3896 Oct 21 j 19:29	29°♑30'49	20.17689 AU	
	-3896 Oct 29 j 19:37	0°♎		
morning rise	-3896 Nov 05 j 20:17	0°♎25'18		
retrograde	-3895 Feb 06 j 04:08	3°♎39'22		
opposition	-3895 Apr 23 j 21:50	1°♎39'16	0°36'42	
min. Earth dist.	-3895 Apr 23 j 07:56	1°♎40'41	18.20984 AU	
	-3895 Jun 10 j 12:47	30°℞♑		
direct	-3895 Jul 09 j 22:09	29°♑38'48		
	-3895 Aug 07 j 14:30	0°♎		
evening set	-3895 Oct 10 j 03:57	2°♎51'51		
conjunction	-3895 Oct 25 j 17:41	3°♎48'03	0°31'42	
minimum elong	-3895 Oct 25 j 17:41	3°♎48'03	0°31'41	
max. Earth dist.	-3895 Oct 26 j 09:23	3°♎50'26	20.24294 AU	
morning rise	-3895 Nov 10 j 07:22	4°♎44'16		
retrograde	-3894 Feb 10 j 18:14	7°♎57'47		
opposition	-3894 Apr 28 j 16:31	5°♎57'46	0°33'34	
min. Earth dist.	-3894 Apr 27 j 23:47	5°♎59'28	18.27613 AU	
direct	-3894 Jul 14 j 16:30	3°♎57'41		
evening set	-3894 Oct 14 j 14:37	7°♎09'27		
conjunction	-3894 Oct 30 j 04:06	8°♎05'24	0°28'48	
minimum elong	-3894 Oct 30 j 04:06	8°♎05'24	0°28'48	
max. Earth dist.	-3894 Oct 30 j 21:17	8°♎07'59	20.30942 AU	
morning rise	-3894 Nov 14 j 18:02	9°♎01'25		
retrograde	-3893 Feb 15 j 07:35	12°♎14'23		
opposition	-3893 May 03 j 10:21	10°♎14'27	0°30'16	
min. Earth dist.	-3893 May 02 j 16:32	10°♎16'15	18.34283 AU	
direct	-3893 Jul 19 j 07:07	8°♎14'45		
evening set	-3893 Oct 19 j 00:24	11°♎25'17		
conjunction	-3893 Nov 03 j 13:55	12°♎21'01	0°25'47	
minimum elong	-3893 Nov 03 j 13:55	12°♎21'01	0°25'45	
max. Earth dist.	-3893 Nov 04 j 09:27	12°♎23'57	20.37610 AU	
morning rise	-3893 Nov 19 j 03:59	13°♎16'50		
retrograde	-3892 Feb 19 j 21:05	16°♎29'17		
min. Earth dist.	-3892 May 06 j 06:59	14°♎31'32	18.40924 AU	
opposition	-3892 May 07 j 03:28	14°♎29'27	0°26'49	
direct	-3892 Jul 22 j 23:21	12°♎30'10		
evening set	-3892 Oct 22 j 09:30	15°♎39'29		
conjunction	-3892 Nov 06 j 22:55	16°♎35'00	0°22'38	
minimum elong	-3892 Nov 06 j 22:55	16°♎35'00	0°22'36	
max. Earth dist.	-3892 Nov 07 j 19:54	16°♎38'08	20.44214 AU	
morning rise	-3892 Nov 22 j 13:21	17°♎30'39		
retrograde	-3891 Feb 23 j 09:18	20°♎42'36		
opposition	-3891 May 11 j 20:04	18°♎42'53	0°23'15	
min. Earth dist.	-3891 May 10 j 22:55	18°♎45'01	18.47489 AU	
direct	-3891 Jul 27 j 11:52	16°♎44'00		
evening set	-3891 Oct 26 j 18:00	19°♎52'09		
conjunction	-3891 Nov 11 j 07:36	20°♎47'27	0°19'23	
minimum elong	-3891 Nov 11 j 07:36	20°♎47'27	0°19'20	
max. Earth dist.	-3891 Nov 12 j 06:28	20°♎50'51	20.50714 AU	
morning rise	-3891 Nov 26 j 22:20	21°♎42'56		
retrograde	-3890 Feb 27 j 22:28	24°♎54'24		
opposition	-3890 May 16 j 11:39	22°♎54'47	0°19'35	
min. Earth dist.	-3890 May 15 j 12:11	22°♎57'09	18.53900 AU	
direct	-3890 Aug 01 j 02:25	20°♎56'17		
evening set	-3890 Oct 31 j 02:02	24°♎03'19		
conjunction	-3890 Nov 15 j 15:41	24°♎58'25	0°16'02	
minimum elong	-3890 Nov 15 j 15:42	24°♎58'25	0°15'58	
behind sun begin	-3890 Nov 15 j 14:22	24°♎58'14		
behind sun end	-3890 Nov 15 j 17:01	24°♎58'37		
max. Earth dist.	-3890 Nov 16 j 15:40	25°♎01'59	20.57012 AU	
morning rise	-3890 Dec 01 j 06:56	25°♎53'45		
retrograde	-3889 Mar 04 j 09:38	29°♎04'46		
min. Earth dist.	-3889 May 20 j 03:10	27°♎07'37	18.60087 AU	
opposition	-3889 May 21 j 02:44	27°♎05'15	0°15'50	
direct	-3889 Aug 05 j 13:24	25°♎07'07		
evening set	-3889 Nov 04 j 09:28	28°♎13'03		
conjunction	-3889 Nov 19 j 23:23	29°♎07'59	0°12'38	
minimum elong	-3889 Nov 19 j 23:24	29°♎07'59	0°12'34	
behind sun begin	-3889 Nov 19 j 19:06	29°♎07'22		
behind sun end	-3889 Nov 20 j 03:41	29°♎08'36		
max. Earth dist.	-3889 Nov 21 j 00:41	29°♎11'43	20.63057 AU	
	-3889 Dec 04 j 17:03	0°♏		
morning rise	-3889 Dec 05 j 15:01	0°♏03'11		
retrograde	-3888 Mar 07 j 22:10	3°♏13'44		
opposition	-3888 May 24 j 16:57	1°♏14'18	0°12'01	

Attention, astronomical year style is used: The year -3888 in astronomical counting style is the year 3889 BCE in historical counting style.

min. Earth dist.	-3888 May 23 j 15:25	1°♏16'52	18.65973 AU
	-3888 Jun 27 j 01:09	30°℞♎	
direct	-3888 Aug 09 j 02:33	29°♎16'30	
	-3888 Sep 19 j 13:11	0°♏	
evening set	-3888 Nov 07 j 16:34	2°♏21'24	
conjunction	-3888 Nov 23 j 06:42	3°♏16'10	0°09'11
minimum elong	-3888 Nov 23 j 06:42	3°♏16'10	0°09'06
behind sun begin	-3888 Nov 23 j 01:06	3°♏15'22	
behind sun end	-3888 Nov 23 j 12:17	3°♏16'58	
max. Earth dist.	-3888 Nov 24 j 08:45	3°♏20'00	20.68765 AU
morning rise	-3888 Dec 08 j 22:55	4°♏11'14	
retrograde	-3887 Mar 12 j 08:31	7°♏21'22	
min. Earth dist.	-3887 May 28 j 05:28	5°♏24'31	18.71510 AU
opposition	-3887 May 29 j 06:42	5°♏21'59	0°08'09
direct	-3887 Aug 13 j 12:37	3°♏24'28	
evening set	-3887 Nov 11 j 23:03	6°♏28'22	
conjunction	-3887 Nov 27 j 13:38	7°♏22'59	0°05'43
minimum elong	-3887 Nov 27 j 13:38	7°♏22'59	0°05'37
behind sun begin	-3887 Nov 27 j 07:21	7°♏22'05	
behind sun end	-3887 Nov 27 j 19:56	7°♏23'53	
max. Earth dist.	-3887 Nov 28 j 16:31	7°♏26'56	20.74108 AU
morning rise	-3887 Dec 13 j 06:26	8°♏17'56	
retrograde	-3886 Mar 16 j 20:08	11°♏27'38	
opposition	-3886 Jun 02 j 19:34	9°♏28'17	0°04'16
min. Earth dist.	-3886 Jun 01 j 16:40	9°♏30'58	18.76645 AU
direct	-3886 Aug 18 j 00:18	7°♏31'00	
evening set	-3886 Nov 16 j 05:16	10°♏33'58	
conjunction	-3886 Dec 01 j 20:12	11°♏28'27	0°02'12
minimum elong	-3886 Dec 01 j 20:13	11°♏28'27	0°02'06
behind sun begin	-3886 Dec 01 j 13:40	11°♏27'31	
behind sun end	-3886 Dec 02 j 02:45	11°♏29'23	
max. Earth dist.	-3886 Dec 02 j 23:36	11°♏32'27	20.79027 AU
morning rise	-3886 Dec 17 j 13:42	12°♏23'18	
	-3885 Feb 12 j 16:18	15°♏	
retrograde	-3885 Mar 21 j 05:18	15°♏32'35	
	-3885 Apr 27 j 19:57	15°℞♏	
min. Earth dist.	-3885 Jun 06 j 05:24	13°♏35'51	18.81365 AU
opposition	-3885 Jun 07 j 07:41	13°♏33'13	0°00'24
desc. node	-3885 Jul 15 j 06:12	12°♏10'55	
direct	-3885 Aug 22 j 09:25	11°♏36'09	
evening set	-3885 Nov 20 j 10:53	14°♏38'12	
	-3885 Nov 26 j 18:42	15°♏	
conjunction	-3885 Dec 06 j 02:24	15°♏32'35	-0°01'24
minimum elong	-3885 Dec 06 j 02:22	15°♏32'34	0°01'30
behind sun begin	-3885 Dec 05 j 19:49	15°♏31'39	
behind sun end	-3885 Dec 06 j 08:55	15°♏33'30	
max. Earth dist.	-3885 Dec 07 j 06:21	15°♏36'39	20.83553 AU
morning rise	-3885 Dec 21 j 20:32	16°♏27'21	
retrograde	-3884 Mar 24 j 15:55	19°♏36'13	
opposition	-3884 Jun 10 j 19:06	17°♏36'50	-0°03'27
min. Earth dist.	-3884 Jun 09 j 15:16	17°♏39'37	18.85695 AU
direct	-3884 Aug 25 j 19:21	15°♏39'55	
evening set	-3884 Nov 23 j 16:04	18°♏41'08	
conjunction	-3884 Dec 09 j 08:02	19°♏35'25	-0°04'53
minimum elong	-3884 Dec 09 j 08:02	19°♏35'25	0°04'59
behind sun begin	-3884 Dec 09 j 01:39	19°♏34'31	
behind sun end	-3884 Dec 09 j 14:25	19°♏36'19	
max. Earth dist.	-3884 Dec 10 j 12:41	19°♏39'35	20.87689 AU
morning rise	-3884 Dec 25 j 02:59	20°♏30'07	
retrograde	-3883 Mar 28 j 23:59	23°♏38'38	
min. Earth dist.	-3883 Jun 14 j 02:45	21°♏41'56	18.89665 AU
opposition	-3883 Jun 15 j 06:00	21°♏39'12	-0°07'16
direct	-3883 Aug 30 j 03:29	19°♏42'27	
evening set	-3883 Nov 27 j 20:59	22°♏42'54	
conjunction	-3883 Dec 13 j 13:35	23°♏37'05	-0°08'17
minimum elong	-3883 Dec 13 j 13:35	23°♏37'05	0°08'25
behind sun begin	-3883 Dec 13 j 07:49	23°♏36'16	
behind sun end	-3883 Dec 13 j 19:22	23°♏37'54	
max. Earth dist.	-3883 Dec 14 j 18:46	23°♏41'19	20.91496 AU
morning rise	-3883 Dec 29 j 09:18	24°♏31'44	
retrograde	-3882 Apr 02 j 10:22	27°♏39'56	
min. Earth dist.	-3882 Jun 18 j 11:15	25°♏43'20	18.93312 AU
opposition	-3882 Jun 19 j 15:54	25°♏40'28	-0°11'01
direct	-3882 Sep 03 j 11:41	23°♏43'51	
evening set	-3882 Dec 02 j 01:42	26°♏43'37	
conjunction	-3882 Dec 17 j 18:53	27°♏37'45	-0°11'38
minimum elong	-3882 Dec 17 j 18:53	27°♏37'45	0°11'45
behind sun begin	-3882 Dec 17 j 14:13	27°♏37'06	
behind sun end	-3882 Dec 17 j 23:34	27°♏38'25	
max. Earth dist.	-3882 Dec 19 j 00:35	27°♏42'03	20.94973 AU
morning rise	-3881 Jan 02 j 15:27	28°♏32'22	
	-3881 Jan 30 j 13:34	0°♐	
retrograde	-3881 Apr 06 j 17:34	1°♐40'16	
	-3881 Jun 16 j 00:48	30°℞♏	
min. Earth dist.	-3881 Jun 22 j 21:31	29°♏43'36	18.96641 AU
opposition	-3881 Jun 24 j 01:29	29°♏40'48	-0°14'41
direct	-3881 Sep 07 j 18:23	27°♏44'20	
	-3881 Nov 22 j 23:28	0°♐	
evening set	-3881 Dec 06 j 06:03	0°♐43'30	
conjunction	-3881 Dec 21 j 23:57	1°♐37'35	-0°14'55
minimum elong	-3881 Dec 21 j 23:57	1°♐37'35	0°15'03
behind sun begin	-3881 Dec 21 j 21:29	1°♐37'15	
behind sun end	-3881 Dec 22 j 02:25	1°♐37'56	
max. Earth dist.	-3881 Dec 23 j 05:57	1°♐41'55	20.98150 AU
morning rise	-3880 Jan 06 j 21:19	2°♐32'11	
retrograde	-3880 Apr 10 j 04:02	5°♐39'52	
min. Earth dist.	-3880 Jun 26 j 05:14	3°♐43'19	18.99660 AU
opposition	-3880 Jun 27 j 10:26	3°♐40'24	-0°18'17
direct	-3880 Sep 11 j 01:42	1°♐44'04	
evening set	-3880 Dec 09 j 10:26	4°♐42'44	
conjunction	-3880 Dec 25 j 05:02	5°♐36'48	-0°18'07
minimum elong	-3880 Dec 25 j 05:01	5°♐36'48	0°18'15
max. Earth dist.	-3880 Dec 26 j 11:24	5°♐41'10	21.01000 AU
morning rise	-3879 Jan 10 j 03:18	6°♐31'23	
retrograde	-3879 Apr 14 j 11:00	9°♐38'52	
opposition	-3879 Jul 01 j 19:01	7°♐39'26	-0°21'47
min. Earth dist.	-3879 Jun 30 j 14:45	7°♐42'16	19.02349 AU
direct	-3879 Sep 15 j 06:46	5°♐43'16	
evening set	-3879 Dec 13 j 14:42	8°♐41'29	
conjunction	-3879 Dec 29 j 10:09	9°♐35'32	-0°21'14
minimum elong	-3879 Dec 29 j 10:09	9°♐35'32	0°21'23
max. Earth dist.	-3879 Dec 30 j 16:27	9°♐39'53	21.03521 AU
morning rise	-3878 Jan 14 j 09:21	10°♐30'08	
retrograde	-3878 Apr 18 j 21:12	13°♐37'29	
min. Earth dist.	-3878 Jul 04 j 22:03	11°♐40'59	19.04680 AU
opposition	-3878 Jul 06 j 03:04	11°♐38'05	-0°25'11
direct	-3878 Sep 19 j 13:49	9°♐42'02	
evening set	-3878 Dec 17 j 19:07	12°♐39'54	
conjunction	-3877 Jan 02 j 15:19	13°♐33'58	-0°24'15
minimum elong	-3877 Jan 02 j 15:18	13°♐33'58	0°24'25
max. Earth dist.	-3877 Jan 03 j 21:37	13°♐38'19	21.05643 AU
morning rise	-3877 Jan 18 j 15:26	14°♐28'35	
retrograde	-3877 Apr 23 j 04:17	17°♐35'50	

Attention, astronomical year style is used: The year -3877 in astronomical counting style is the year 3878 BCE in historical counting style.

min. Earth dist.	-3877 Jul	09 j 07:07	15°♐39'15	19.06600 AU
opposition	-3877 Jul	10 j 10:47	15°♐36'29	-0°28'27
direct	-3877 Sep	23 j 17:53	13°♐40'33	
evening set	-3877 Dec	21 j 23:35	16°♐38'09	
conjunction	-3876 Jan	06 j 20:39	17°♐32'14	-0°27'09
minimum elong	-3876 Jan	06 j 20:39	17°♐32'14	0°27'19
max. Earth dist.	-3876 Jan	08 j 02:26	17°♐36'30	21.07357 AU
morning rise	-3876 Jan	22 j 21:43	18°♐26'54	
retrograde	-3876 Apr	26 j 13:56	21°♐34'05	
opposition	-3876 Jul	13 j 18:11	19°♐34'46	-0°31'35
min. Earth dist.	-3876 Jul	12 j 14:15	19°♐37'34	19.08082 AU
direct	-3876 Sep	27 j 00:36	17°♐38'55	
evening set	-3876 Dec	25 j 04:13	20°♐36'19	
conjunction	-3875 Jan	10 j 02:08	21°♐30'27	-0°29'56
minimum elong	-3875 Jan	10 j 02:08	21°♐30'27	0°30'06
max. Earth dist.	-3875 Jan	11 j 07:31	21°♐34'39	21.08585 AU
morning rise	-3875 Jan	26 j 04:11	22°♐25'10	
retrograde	-3875 Apr	30 j 21:26	25°♐32'19	
min. Earth dist.	-3875 Jul	16 j 23:16	23°♐35'38	19.09056 AU
opposition	-3875 Jul	18 j 01:27	23°♐33'01	-0°34'34
direct	-3875 Oct	01 j 04:48	21°♐37'13	
evening set	-3875 Dec	29 j 09:12	24°♐34'29	
conjunction	-3874 Jan	14 j 08:04	25°♐28'41	-0°32'34
minimum elong	-3874 Jan	14 j 08:04	25°♐28'40	0°32'43
max. Earth dist.	-3874 Jan	15 j 12:16	25°♐32'42	21.09296 AU
morning rise	-3874 Jan	30 j 11:05	26°♐23'27	
retrograde	-3874 May	05 j 06:35	29°♐30'36	
min. Earth dist.	-3874 Jul	21 j 06:16	27°♐33'53	19.09485 AU
opposition	-3874 Jul	22 j 08:12	27°♐31'17	-0°37'24
direct	-3874 Oct	05 j 10:44	25°♐35'28	
evening set	-3873 Jan	02 j 14:26	28°♐32'40	
conjunction	-3873 Jan	18 j 14:13	29°♐26'57	-0°35'02
minimum elong	-3873 Jan	18 j 14:13	29°♐26'57	0°35'12
max. Earth dist.	-3873 Jan	19 j 17:29	29°♐30'50	21.09428 AU
	-3873 Jan	28 j 06:45	0°♑	
morning rise	-3873 Feb	03 j 18:12	0°♑21'48	
retrograde	-3873 May	09 j 14:04	3°♑28'57	
opposition	-3873 Jul	26 j 15:00	1°♑29'35	-0°40'02
min. Earth dist.	-3873 Jul	25 j 15:01	1°♑32'00	19.09327 AU
	-3873 Sep	06 j 22:36	30°℞♐	
direct	-3873 Oct	09 j 15:20	29°♐33'43	
	-3873 Nov	10 j 15:50	0°♑	
evening set	-3872 Jan	06 j 19:40	2°♑30'54	
conjunction	-3872 Jan	22 j 20:27	3°♑25'15	-0°37'20
minimum elong	-3872 Jan	22 j 20:27	3°♑25'15	0°37'29
max. Earth dist.	-3872 Jan	23 j 22:17	3°♑28'56	21.08993 AU
morning rise	-3872 Feb	08 j 01:27	4°♑20'13	
retrograde	-3872 May	12 j 22:42	7°♑27'23	
opposition	-3872 Jul	29 j 21:31	5°♑27'56	-0°42'29
min. Earth dist.	-3872 Jul	28 j 21:56	5°♑30'18	19.08604 AU
direct	-3872 Oct	12 j 20:54	3°♑31'57	
evening set	-3871 Jan	10 j 01:21	6°♑29'10	
conjunction	-3871 Jan	26 j 03:07	7°♑23'38	-0°39'27
minimum elong	-3871 Jan	26 j 03:07	7°♑23'38	0°39'37
max. Earth dist.	-3871 Jan	27 j 03:57	7°♑27'10	21.07993 AU
morning rise	-3871 Feb	11 j 09:07	8°♑18'42	
retrograde	-3871 May	17 j 06:00	11°♑25'54	
min. Earth dist.	-3871 Aug	02 j 06:14	9°♑28'31	19.07343 AU
opposition	-3871 Aug	03 j 03:47	9°♑26'20	-0°44'43
direct	-3871 Oct	17 j 01:30	7°♑30'12	
evening set	-3870 Jan	14 j 07:16	10°♑27'32	

conjunction	-3870 Jan	30 j 10:05	11°♑22'07	-0°41'23
minimum elong	-3870 Jan	30 j 10:05	11°♑22'07	0°41'33
max. Earth dist.	-3870 Jan	31 j 09:21	11°♑25'26	21.06498 AU
morning rise	-3870 Feb	15 j 17:07	12°♑17'18	
retrograde	-3870 May	21 j 14:51	15°♑24'35	
opposition	-3870 Aug	07 j 09:49	13°♑24'53	-0°46'45
min. Earth dist.	-3870 Aug	06 j 12:49	13°♑27'00	19.05610 AU
direct	-3870 Oct	21 j 06:54	11°♑28'33	
evening set	-3869 Jan	18 j 13:30	14°♑26'04	
conjunction	-3869 Feb	03 j 17:17	15°♑20'48	-0°43'07
minimum elong	-3869 Feb	03 j 17:17	15°♑20'48	0°43'17
max. Earth dist.	-3869 Feb	04 j 15:37	15°♑23'58	21.04535 AU
morning rise	-3869 Feb	20 j 01:15	16°♑16'06	
retrograde	-3869 May	25 j 21:56	19°♑23'30	
opposition	-3869 Aug	11 j 15:48	17°♑23'40	-0°48'33
min. Earth dist.	-3869 Aug	10 j 20:44	17°♑25'37	19.03441 AU
direct	-3869 Oct	25 j 11:10	15°♑27'09	
evening set	-3868 Jan	22 j 20:07	18°♑24'56	
conjunction	-3868 Feb	08 j 00:56	19°♑19'49	-0°44'39
minimum elong	-3868 Feb	08 j 00:56	19°♑19'49	0°44'49
max. Earth dist.	-3868 Feb	08 j 21:40	19°♑22'46	21.02187 AU
morning rise	-3868 Feb	24 j 09:55	20°♑15'16	
retrograde	-3868 May	29 j 07:41	23°♑22'49	
opposition	-3868 Aug	14 j 21:40	21°♑22'52	-0°50'07
min. Earth dist.	-3868 Aug	14 j 03:12	21°♑24'45	19.00909 AU
direct	-3868 Oct	28 j 16:29	19°♑26'07	
evening set	-3867 Jan	26 j 03:09	22°♑24'16	
conjunction	-3867 Feb	11 j 09:02	23°♑19'20	-0°45'58
minimum elong	-3867 Feb	11 j 09:02	23°♑19'20	0°46'06
max. Earth dist.	-3867 Feb	12 j 04:47	23°♑22'08	20.99469 AU
morning rise	-3867 Feb	27 j 18:58	24°♑14'56	
retrograde	-3867 Jun	02 j 15:11	27°♑22'42	
min. Earth dist.	-3867 Aug	18 j 11:09	25°♑24'20	18.98018 AU
opposition	-3867 Aug	19 j 03:39	25°♑22'38	-0°51'27
direct	-3867 Nov	01 j 20:42	23°♑25'42	
evening set	-3866 Jan	30 j 10:50	26°♑24'17	
conjunction	-3866 Feb	15 j 17:45	27°♑19'31	-0°47'03
minimum elong	-3866 Feb	15 j 17:45	27°♑19'31	0°47'12
max. Earth dist.	-3866 Feb	16 j 11:35	27°♑22'03	20.96423 AU
morning rise	-3866 Mar	04 j 04:40	28°♑15'18	
	-3866 Apr	07 j 21:21	0°♒	
retrograde	-3866 Jun	07 j 01:40	1°♒23'18	
	-3866 Aug	08 j 04:06	30°℞♑	
opposition	-3866 Aug	23 j 09:31	29°♑23'10	-0°52'33
min. Earth dist.	-3866 Aug	22 j 17:53	29°♑24'46	18.94805 AU
direct	-3866 Nov	06 j 02:15	27°♑26'01	
	-3865 Jan	27 j 03:20	0°♒	
evening set	-3865 Feb	03 j 19:02	0°♒25'09	
conjunction	-3865 Feb	20 j 03:00	1°♒20'35	-0°47'56
minimum elong	-3865 Feb	20 j 03:00	1°♒20'35	0°48'04
max. Earth dist.	-3865 Feb	20 j 19:42	1°♒22'58	20.93042 AU
morning rise	-3865 Mar	08 j 14:46	2°♒16'33	
retrograde	-3865 Jun	11 j 10:07	5°♒24'51	
opposition	-3865 Aug	27 j 15:46	3°♒24'39	-0°53'24
min. Earth dist.	-3865 Aug	27 j 02:09	3°♒26'03	18.91260 AU
direct	-3865 Nov	10 j 06:48	1°♒27'19	
evening set	-3864 Feb	08 j 03:45	4°♒27'02	
conjunction	-3864 Feb	24 j 12:44	5°♒22'41	-0°48'34
minimum elong	-3864 Feb	24 j 12:44	5°♒22'41	0°48'42
max. Earth dist.	-3864 Feb	25 j 03:16	5°♒24'46	20.89350 AU
morning rise	-3864 Mar	12 j 01:30	6°♒18'52	

Attention, astronomical year style is used: The year -3864 in astronomical counting style is the year 3865 BCE in historical counting style.

retrograde	-3864 Jun 14 j 21:21	9°♒27'31	
opposition	-3864 Aug 30 j 22:10	7°♒27'16	-0°53'59
min. Earth dist.	-3864 Aug 30 j 09:40	7°♒28'33	18.87395 AU
direct	-3864 Nov 13 j 12:55	5°♒29'43	
evening set	-3863 Feb 11 j 13:24	8°♒30'08	
conjunction	-3863 Feb 27 j 23:27	9°♒26'02	-0°48'58
minimum elong	-3863 Feb 27 j 23:27	9°♒26'02	0°49'06
max. Earth dist.	-3863 Feb 28 j 12:36	9°♒27'54	20.85305 AU
morning rise	-3863 Mar 16 j 13:00	10°♒22'25	
retrograde	-3863 Jun 19 j 07:06	13°♒31'26	
opposition	-3863 Sep 04 j 04:45	11°♒31'09	-0°54'18
min. Earth dist.	-3863 Sep 03 j 18:36	11°♒32'12	18.83166 AU
direct	-3863 Nov 17 j 18:13	9°♒33'23	
evening set	-3862 Feb 15 j 23:53	12°♒34'35	
conjunction	-3862 Mar 04 j 10:54	13°♒30'43	-0°49'08
minimum elong	-3862 Mar 04 j 10:54	13°♒30'43	0°49'15
max. Earth dist.	-3862 Mar 04 j 21:16	13°♒32'12	20.80902 AU
morning rise	-3862 Mar 21 j 01:22	14°♒27'20	
	-3862 Mar 30 j 23:56	15°♒	
retrograde	-3862 Jun 23 j 19:13	17°♒36'46	
opposition	-3862 Sep 08 j 11:43	15°♒36'26	-0°54'21
min. Earth dist.	-3862 Sep 08 j 03:07	15°♒37'20	18.78564 AU
	-3862 Sep 23 j 09:04	15°℞♒	
direct	-3862 Nov 22 j 01:12	13°♒38'25	
	-3861 Jan 18 j 13:42	15°♒	
evening set	-3861 Feb 20 j 11:03	16°♒40'27	
conjunction	-3861 Mar 08 j 23:04	17°♒36'50	-0°49'02
minimum elong	-3861 Mar 08 j 23:04	17°♒36'50	0°49'09
max. Earth dist.	-3861 Mar 09 j 07:46	17°♒38'05	20.76086 AU
morning rise	-3861 Mar 25 j 14:11	18°♒33'41	
retrograde	-3861 Jun 28 j 06:02	21°♒43'33	
opposition	-3861 Sep 12 j 19:08	19°♒43'09	-0°54'06
min. Earth dist.	-3861 Sep 12 j 12:57	19°♒43'48	18.73539 AU
direct	-3861 Nov 26 j 07:31	17°♒44'51	
evening set	-3860 Feb 24 j 23:09	20°♒47'47	
conjunction	-3860 Mar 12 j 12:03	21°♒44'25	-0°48'41
minimum elong	-3860 Mar 12 j 12:04	21°♒44'25	0°48'47
max. Earth dist.	-3860 Mar 12 j 17:33	21°♒45'12	20.70868 AU
morning rise	-3860 Mar 29 j 04:03	22°♒41'30	
retrograde	-3860 Jul 01 j 19:12	25°♒51'50	
opposition	-3860 Sep 16 j 02:49	23°♒51'19	-0°53'35
min. Earth dist.	-3860 Sep 15 j 22:28	23°♒51'46	18.68112 AU
direct	-3860 Nov 29 j 15:41	21°♒52'40	
evening set	-3859 Feb 28 j 12:01	24°♒56'31	
conjunction	-3859 Mar 17 j 01:58	25°♒53'27	-0°48'04
minimum elong	-3859 Mar 17 j 01:58	25°♒53'27	0°48'11
max. Earth dist.	-3859 Mar 17 j 05:40	25°♒53'59	20.65233 AU
morning rise	-3859 Apr 02 j 18:33	26°♒50'46	
	-3859 Jun 28 j 12:11	0°♓	
retrograde	-3859 Jul 06 j 07:02	0°♓01'32	
	-3859 Jul 14 j 03:37	30°℞♒	
opposition	-3859 Sep 20 j 11:00	28°♒00'54	-0°52'47
min. Earth dist.	-3859 Sep 20 j 09:04	28°♒01'06	18.62279 AU
direct	-3859 Dec 03 j 23:10	26°♒01'53	
evening set	-3858 Mar 05 j 01:45	29°♒06'42	
	-3858 Mar 20 j 13:33	0°♓	
conjunction	-3858 Mar 21 j 16:29	0°♓03'54	-0°47'12
minimum elong	-3858 Mar 21 j 16:29	0°♓03'54	0°47'17
max. Earth dist.	-3858 Mar 21 j 16:49	0°♓03'56	20.59237 AU
morning rise	-3858 Apr 07 j 09:49	1°♓01'28	
retrograde	-3858 Jul 10 j 20:52	4°♓12'41	

opposition	-3858 Sep 24 j 19:26	2°♓11'53	-0°51'41
min. Earth dist.	-3858 Sep 24 j 19:24	2°♓11'53	18.56122 AU
direct	-3858 Dec 08 j 08:36	0°♓12'28	
evening set	-3857 Mar 09 j 16:08	3°♓18'17	
conjunction	-3857 Mar 26 j 07:49	4°♓15'46	-0°46'04
minimum elong	-3857 Mar 26 j 07:50	4°♓15'46	0°46'09
max. Earth dist.	-3857 Mar 26 j 06:41	4°♓15'36	20.52936 AU
morning rise	-3857 Apr 12 j 01:35	5°♓13'36	
retrograde	-3857 Jul 15 j 09:44	8°♓25'16	
opposition	-3857 Sep 29 j 04:23	6°♓24'18	-0°50'19
min. Earth dist.	-3857 Sep 29 j 06:28	6°♓24'05	18.49698 AU
direct	-3857 Dec 12 j 17:24	4°♓24'27	
evening set	-3856 Mar 13 j 07:18	7°♓31'19	
conjunction	-3856 Mar 29 j 23:41	8°♓29'05	-0°44'41
minimum elong	-3856 Mar 29 j 23:41	8°♓29'05	0°44'45
max. Earth dist.	-3856 Mar 29 j 19:19	8°♓28'27	20.46424 AU
morning rise	-3856 Apr 15 j 18:09	9°♓27'11	
retrograde	-3856 Jul 19 j 00:09	12°♓39'20	
opposition	-3856 Oct 02 j 13:47	10°♓38'11	-0°48'39
min. Earth dist.	-3856 Oct 02 j 17:44	10°♓37'45	18.43102 AU
direct	-3856 Dec 16 j 03:43	8°♓37'53	
evening set	-3855 Mar 17 j 23:21	11°♓45'51	
conjunction	-3855 Apr 03 j 16:37	12°♓43'56	-0°43'03
minimum elong	-3855 Apr 03 j 16:37	12°♓43'56	0°43'06
max. Earth dist.	-3855 Apr 03 j 11:02	12°♓43'07	20.39755 AU
morning rise	-3855 Apr 20 j 11:21	13°♓42'16	
retrograde	-3855 Jul 23 j 14:15	16°♓54'54	
opposition	-3855 Oct 06 j 23:35	14°♓53'35	-0°46'43
min. Earth dist.	-3855 Oct 07 j 05:24	14°♓52'58	18.36381 AU
direct	-3855 Dec 20 j 14:27	12°♓52'51	
evening set	-3854 Mar 22 j 16:21	16°♓01'58	
conjunction	-3854 Apr 08 j 10:07	17°♓00'20	-0°41'11
minimum elong	-3854 Apr 08 j 10:07	17°♓00'20	0°41'14
max. Earth dist.	-3854 Apr 08 j 01:20	16°♓59'03	20.33012 AU
morning rise	-3854 Apr 25 j 05:23	17°♓58'56	
retrograde	-3854 Jul 28 j 05:02	21°♓12'05	
opposition	-3854 Oct 11 j 10:07	19°♓10'36	-0°44'31
min. Earth dist.	-3854 Oct 11 j 17:44	19°♓09'47	18.29629 AU
direct	-3854 Dec 25 j 01:30	17°♓09'26	
evening set	-3853 Mar 27 j 09:52	20°♓19'44	
conjunction	-3853 Apr 13 j 04:23	21°♓18'24	-0°39'04
minimum elong	-3853 Apr 13 j 04:23	21°♓18'24	0°39'05
max. Earth dist.	-3853 Apr 12 j 18:44	21°♓16'59	20.26250 AU
morning rise	-3853 Apr 29 j 23:45	22°♓17'15	
retrograde	-3853 Aug 01 j 20:45	25°♓30'56	
opposition	-3853 Oct 15 j 21:13	23°♓29'19	-0°42'04
min. Earth dist.	-3853 Oct 16 j 06:17	23°♓28'21	18.22878 AU
direct	-3853 Dec 29 j 14:21	21°♓27'46	
evening set	-3852 Mar 31 j 04:35	24°♓39'17	
conjunction	-3852 Apr 16 j 23:29	25°♓38'15	-0°36'43
minimum elong	-3852 Apr 16 j 23:29	25°♓38'15	0°36'44
max. Earth dist.	-3852 Apr 16 j 10:39	25°♓36'22	20.19531 AU
morning rise	-3852 May 03 j 19:13	26°♓37'21	
retrograde	-3852 Aug 05 j 11:55	29°♓51'35	
opposition	-3852 Oct 19 j 08:55	27°♓49'52	-0°39'21
min. Earth dist.	-3852 Oct 19 j 19:55	27°♓48'41	18.16197 AU
direct	-3851 Jan 02 j 02:47	25°♓47'54	
evening set	-3851 Apr 05 j 00:10	29°♓00'43	
conjunction	-3851 Apr 21 j 19:41	29°♓59'59	-0°34'08
minimum elong	-3851 Apr 21 j 19:42	29°♓59'59	0°34'09

Attention, astronomical year style is used: The year -3851 in astronomical counting style is the year 3852 BCE in historical counting style.

max. Earth dist.	-3851 Apr 21 j 06:01	29°♓57'57	20.12884 AU
	-3851 Apr 21 j 19:51	0°♈	
morning rise	-3851 May 08 j 15:22	0°♈59'19	
retrograde	-3851 Aug 10 j 05:17	4°♈14'07	
opposition	-3851 Oct 23 j 21:25	2°♈12'20	-0°36'23
min. Earth dist.	-3851 Oct 24 j 09:42	2°♈11'00	18.09586 AU
direct	-3850 Jan 06 j 17:29	0°♈10'02	
evening set	-3850 Apr 09 j 20:46	3°♈24'08	
conjunction	-3850 Apr 26 j 16:27	4°♈23'41	-0°31'21
minimum elong	-3850 Apr 26 j 16:27	4°♈23'41	0°31'20
max. Earth dist.	-3850 Apr 25 j 23:39	4°♈21'11	20.06320 AU
morning rise	-3850 May 13 j 12:17	5°♈23'16	
retrograde	-3850 Aug 14 j 21:35	8°♈38'39	
opposition	-3850 Oct 28 j 10:40	6°♈36'49	-0°33'10
min. Earth dist.	-3850 Oct 29 j 01:04	6°♈35'16	18.03073 AU
direct	-3849 Jan 11 j 07:51	4°♈34'10	
evening set	-3849 Apr 14 j 18:12	7°♈49'36	
conjunction	-3849 May 01 j 14:19	8°♈49'26	-0°28'21
minimum elong	-3849 May 01 j 14:19	8°♈49'26	0°28'21
max. Earth dist.	-3849 Apr 30 j 20:39	8°♈46'48	19.99845 AU
morning rise	-3849 May 18 j 09:55	9°♈49'15	
retrograde	-3849 Aug 19 j 16:22	13°♈05'12	
opposition	-3849 Nov 02 j 00:38	11°♈03'20	-0°29'44
min. Earth dist.	-3849 Nov 02 j 16:14	11°♈01'39	17.96634 AU
direct	-3848 Jan 16 j 00:18	9°♈00'22	
evening set	-3848 Apr 18 j 16:44	12°♈17'08	
conjunction	-3848 May 05 j 12:52	13°♈17'14	-0°25'09
minimum elong	-3848 May 05 j 12:52	13°♈17'14	0°25'07
max. Earth dist.	-3848 May 04 j 16:00	13°♈14'07	19.93438 AU
morning rise	-3848 May 22 j 08:26	14°♈17'16	
retrograde	-3848 Aug 23 j 10:07	17°♈33'48	
opposition	-3848 Nov 05 j 15:35	15°♈31'54	-0°26'06
min. Earth dist.	-3848 Nov 06 j 09:34	15°♈29'57	17.90265 AU
direct	-3847 Jan 19 j 16:39	13°♈28'34	
evening set	-3847 Apr 23 j 16:06	16°♈46'40	
conjunction	-3847 May 10 j 12:26	17°♈47'01	-0°21'47
minimum elong	-3847 May 10 j 12:26	17°♈47'01	0°21'44
max. Earth dist.	-3847 May 09 j 14:28	17°♈43'43	19.87091 AU
morning rise	-3847 May 27 j 07:36	18°♈47'16	
retrograde	-3847 Aug 28 j 06:15	22°♈04'20	
opposition	-3847 Nov 10 j 07:13	20°♈02'24	-0°22'16
min. Earth dist.	-3847 Nov 11 j 02:11	20°♈00'21	17.83947 AU
direct	-3846 Jan 24 j 11:24	17°♈58'43	
evening set	-3846 Apr 28 j 16:24	21°♈18'06	
max. Earth dist.	-3846 May 14 j 11:42	22°♈14'57	19.80812 AU
conjunction	-3846 May 15 j 12:33	22°♈18'42	-0°18'15
minimum elong	-3846 May 15 j 12:34	22°♈18'42	0°18'12
morning rise	-3846 Jun 01 j 07:24	23°♈19'09	
retrograde	-3846 Sep 02 j 01:02	26°♈36'45	
opposition	-3846 Nov 14 j 23:52	24°♈34'44	-0°18'16
min. Earth dist.	-3846 Nov 15 j 21:08	24°♈32'26	17.77732 AU
direct	-3845 Jan 29 j 05:38	22°♈30'40	
evening set	-3845 May 03 j 17:05	25°♈51'20	
max. Earth dist.	-3845 May 19 j 11:24	26°♈48'15	19.74660 AU
conjunction	-3845 May 20 j 13:14	26°♈52'10	-0°14'35
minimum elong	-3845 May 20 j 13:14	26°♈52'10	0°14'31
behind sun begin	-3845 May 20 j 10:31	26°♈51'46	
behind sun end	-3845 May 20 j 15:57	26°♈52'34	
morning rise	-3845 Jun 06 j 07:35	27°♈52'47	
	-3845 Jul 16 j 18:12	0°♉	
retrograde	-3845 Sep 06 j 22:20	1°♉10'53	
	-3845 Oct 30 j 10:59	30°℞♈	
opposition	-3845 Nov 19 j 17:07	29°♈08'48	-0°14'07
min. Earth dist.	-3845 Nov 20 j 14:56	29°♈06'25	17.71652 AU
direct	-3844 Feb 03 j 02:27	27°♈04'22	
	-3844 Apr 30 j 07:29	0°♉	
evening set	-3844 May 07 j 18:45	0°♉26'15	
max. Earth dist.	-3844 May 23 j 10:35	1°♉23'01	19.68670 AU
conjunction	-3844 May 24 j 14:35	1°♉27'17	-0°10'49
minimum elong	-3844 May 24 j 14:35	1°♉27'17	0°10'45
behind sun begin	-3844 May 24 j 09:27	1°♉26'31	
behind sun end	-3844 May 24 j 19:43	1°♉28'03	
morning rise	-3844 Jun 10 j 08:22	2°♉28'05	
retrograde	-3844 Sep 10 j 17:57	5°♉46'38	
opposition	-3844 Nov 23 j 11:07	3°♉44'28	-0°09'52
min. Earth dist.	-3844 Nov 24 j 11:10	3°♉41'51	17.65785 AU
direct	-3843 Feb 06 j 22:11	1°♉39'39	
evening set	-3843 May 12 j 20:56	5°♉02'44	
max. Earth dist.	-3843 May 28 j 11:33	5°♉59'33	19.62935 AU
conjunction	-3843 May 29 j 16:27	6°♉03'58	-0°06'58
minimum elong	-3843 May 29 j 16:28	6°♉03'58	0°06'52
behind sun begin	-3843 May 29 j 10:10	6°♉03'02	
behind sun end	-3843 May 29 j 22:45	6°♉04'54	
morning rise	-3843 Jun 15 j 09:36	7°♉04'54	
retrograde	-3843 Sep 15 j 16:42	10°♉23'53	
opposition	-3843 Nov 28 j 05:52	8°♉21'39	-0°05'32
min. Earth dist.	-3843 Nov 29 j 05:59	8°♉19'01	17.60196 AU
direct	-3842 Feb 11 j 20:52	6°♉16'29	
evening set	-3842 May 17 j 23:31	9°♉40'41	
conjunction	-3842 Jun 03 j 18:32	10°♉42'04	-0°03'03
minimum elong	-3842 Jun 03 j 18:33	10°♉42'05	0°02'57
behind sun begin	-3842 Jun 03 j 11:47	10°♉41'04	
behind sun end	-3842 Jun 04 j 01:18	10°♉43'05	
max. Earth dist.	-3842 Jun 02 j 12:33	10°♉37'28	19.57506 AU
morning rise	-3842 Jun 20 j 10:51	11°♉43'08	
	-3842 Sep 11 j 00:45	15°♉	
retrograde	-3842 Sep 20 j 13:02	15°♉02'32	
	-3842 Sep 30 j 03:04	15°℞♉	
opposition	-3842 Dec 03 j 01:29	13°♉00'13	-0°01'08
min. Earth dist.	-3842 Dec 04 j 03:23	12°♉57'24	17.54968 AU
direct	-3841 Feb 16 j 17:28	10°♉54'44	
asc. node	-3841 Mar 07 j 21:49	11°♉04'29	
evening set	-3841 May 23 j 02:35	14°♉20'00	
	-3841 Jun 03 j 01:19	15°♉	
conjunction	-3841 Jun 08 j 21:00	15°♉21'32	0°01'02
minimum elong	-3841 Jun 08 j 21:01	15°♉21'32	0°01'08
behind sun begin	-3841 Jun 08 j 14:15	15°♉20'31	
behind sun end	-3841 Jun 09 j 03:47	15°♉22'33	
max. Earth dist.	-3841 Jun 07 j 14:16	15°♉16'48	19.52486 AU
morning rise	-3841 Jun 25 j 12:35	16°♉22'42	
retrograde	-3841 Sep 25 j 12:55	19°♉42'29	
opposition	-3841 Dec 07 j 21:32	17°♉40'06	0°03'17
min. Earth dist.	-3841 Dec 08 j 23:02	17°♉37'19	17.50173 AU
direct	-3840 Feb 21 j 17:30	15°♉34'18	
evening set	-3840 May 27 j 06:03	19°♉00'35	
conjunction	-3840 Jun 12 j 23:53	20°♉02'16	0°05'01
minimum elong	-3840 Jun 12 j 23:53	20°♉02'16	0°05'09
behind sun begin	-3840 Jun 12 j 17:19	20°♉01'16	
behind sun end	-3840 Jun 13 j 06:27	20°♉03'15	
max. Earth dist.	-3840 Jun 11 j 17:01	19°♉57'29	19.47921 AU
morning rise	-3840 Jun 29 j 14:24	21°♉03'30	
retrograde	-3840 Sep 29 j 10:04	24°♉23'38	
opposition	-3840 Dec 11 j 18:37	22°♉21'14	0°07'42

Attention, astronomical year style is used: The year -3840 in astronomical counting style is the year 3841 BCE in historical counting style.

min. Earth dist.	-3840 Dec 12 j 21:25	22°♉18'18	17.45871 AU
direct	-3839 Feb 25 j 15:19	20°♉15'11	
evening set	-3839 Jun 01 j 09:55	23°♉42'25	
max. Earth dist.	-3839 Jun 16 j 19:16	24°♉39'16	19.43888 AU
conjunction	-3839 Jun 18 j 02:52	24°♉44'11	0°08'57
minimum elong	-3839 Jun 18 j 02:51	24°♉44'11	0°09'04
behind sun begin	-3839 Jun 17 j 21:08	24°♉43'19	
behind sun end	-3839 Jun 18 j 08:34	24°♉45'03	
morning rise	-3839 Jul 04 j 16:28	25°♉45'28	
retrograde	-3839 Oct 04 j 10:24	29°♉05'56	
opposition	-3839 Dec 16 j 16:15	27°♉03'33	0°12'05
min. Earth dist.	-3839 Dec 17 j 18:14	27°♉00'42	17.42120 AU
direct	-3838 Mar 02 j 16:52	24°♉57'19	
evening set	-3838 Jun 06 j 13:57	28°♉25'25	
max. Earth dist.	-3838 Jun 21 j 23:25	29°♉22'27	19.40418 AU
conjunction	-3838 Jun 23 j 06:09	29°♉27'15	0°12'51
minimum elong	-3838 Jun 23 j 06:09	29°♉27'14	0°12'59
behind sun begin	-3838 Jun 23 j 02:09	29°♉26'38	
behind sun end	-3838 Jun 23 j 10:09	29°♉27'51	
	-3838 Jul 02 j 00:42	0°♊	
morning rise	-3838 Jul 09 j 18:32	0°♊28'34	
retrograde	-3838 Oct 09 j 08:04	3°♊49'20	
opposition	-3838 Dec 21 j 14:44	1°♊47'00	0°16'25
min. Earth dist.	-3838 Dec 22 j 17:32	1°♊44'04	17.38948 AU
	-3837 Feb 08 j 10:14	30°℞♉	
direct	-3837 Mar 07 j 16:12	29°♉40'39	
	-3837 Apr 03 j 19:56	0°♊	
evening set	-3837 Jun 11 j 18:14	3°♊09'32	
max. Earth dist.	-3837 Jun 27 j 01:58	4°♊06'29	19.37545 AU
conjunction	-3837 Jun 28 j 09:21	4°♊11'24	0°16'41
minimum elong	-3837 Jun 28 j 09:21	4°♊11'24	0°16'49
morning rise	-3837 Jul 14 j 20:48	5°♊12'44	
retrograde	-3837 Oct 14 j 08:42	8°♊33'47	
opposition	-3837 Dec 26 j 13:46	6°♊31'31	0°20'39
min. Earth dist.	-3837 Dec 27 j 15:43	6°♊28'41	17.36360 AU
direct	-3836 Mar 11 j 19:28	4°♊25'06	
evening set	-3836 Jun 15 j 22:43	7°♊54'41	
max. Earth dist.	-3836 Jul 01 j 06:57	8°♊51'52	19.35229 AU
conjunction	-3836 Jul 02 j 12:57	8°♊56'34	0°20'25
minimum elong	-3836 Jul 02 j 12:57	8°♊56'34	0°20'34
morning rise	-3836 Jul 18 j 23:02	9°♊57'52	
retrograde	-3836 Oct 18 j 07:03	13°♊19'09	
opposition	-3836 Dec 30 j 13:33	11°♊17'00	0°24'45
min. Earth dist.	-3836 Dec 31 j 16:01	11°♊14'07	17.34315 AU
direct	-3835 Mar 16 j 21:07	9°♊10'33	
evening set	-3835 Jun 21 j 03:29	12°♊40'44	
max. Earth dist.	-3835 Jul 06 j 09:45	13°♊37'46	19.33453 AU
conjunction	-3835 Jul 07 j 16:25	13°♊42'35	0°24'02
minimum elong	-3835 Jul 07 j 16:25	13°♊42'35	0°24'12
morning rise	-3835 Jul 24 j 01:25	14°♊43'52	
retrograde	-3835 Oct 23 j 07:37	18°♊05'20	
opposition	-3834 Jan 04 j 14:00	16°♊03'17	0°28'43
min. Earth dist.	-3834 Jan 05 j 15:41	16°♊00'29	17.32803 AU
direct	-3834 Mar 22 j 01:15	13°♊56'49	
evening set	-3834 Jun 26 j 07:54	17°♊27'28	
conjunction	-3834 Jul 12 j 19:49	18°♊29'16	0°27'30
minimum elong	-3834 Jul 12 j 19:49	18°♊29'16	0°27'38
max. Earth dist.	-3834 Jul 11 j 14:55	18°♊24'43	19.32184 AU
morning rise	-3834 Jul 29 j 03:24	19°♊30'28	
retrograde	-3834 Oct 28 j 07:22	22°♊52'04	
opposition	-3833 Jan 09 j 15:04	20°♊50'08	0°32'29
min. Earth dist.	-3833 Jan 10 j 16:40	20°♊47'21	17.31775 AU
direct	-3833 Mar 27 j 04:38	18°♊43'41	
evening set	-3833 Jul 01 j 12:32	22°♊14'39	
conjunction	-3833 Jul 17 j 23:04	23°♊16'22	0°30'46
minimum elong	-3833 Jul 17 j 23:04	23°♊16'22	0°30'56
max. Earth dist.	-3833 Jul 16 j 17:42	23°♊11'44	19.31397 AU
morning rise	-3833 Aug 03 j 05:29	24°♊17'29	
retrograde	-3833 Nov 02 j 07:44	27°♊39'09	
opposition	-3832 Jan 14 j 16:24	25°♊37'17	0°36'01
min. Earth dist.	-3832 Jan 15 j 17:24	25°♊34'35	17.31232 AU
direct	-3832 Mar 31 j 08:34	23°♊30'50	
evening set	-3832 Jul 05 j 16:50	27°♊02'02	
max. Earth dist.	-3832 Jul 20 j 22:43	27°♊59'18	19.31084 AU
conjunction	-3832 Jul 22 j 02:15	28°♊03'39	0°33'50
minimum elong	-3832 Jul 22 j 02:15	28°♊03'39	0°33'59
morning rise	-3832 Aug 07 j 07:14	29°♊04'39	
	-3832 Aug 22 j 18:29	0°♋	
retrograde	-3832 Nov 06 j 08:30	2°♋26'18	
opposition	-3831 Jan 18 j 18:21	0°♋24'32	0°39'19
min. Earth dist.	-3831 Jan 19 j 18:33	0°♋21'55	17.31145 AU
	-3831 Jan 28 j 06:13	30°℞♊	
direct	-3831 Apr 05 j 12:55	28°♊18'08	
	-3831 Jun 08 j 13:18	0°♋	
evening set	-3831 Jul 10 j 20:50	1°♋49'23	
max. Earth dist.	-3831 Jul 26 j 01:28	2°♋46'32	19.31236 AU
conjunction	-3831 Jul 27 j 04:48	2°♋50'51	0°36'40
minimum elong	-3831 Jul 27 j 04:48	2°♋50'51	0°36'49
morning rise	-3831 Aug 12 j 08:33	3°♋51'43	
retrograde	-3831 Nov 11 j 08:27	7°♋13'21	
opposition	-3830 Jan 23 j 20:35	5°♋11'37	0°42'20
min. Earth dist.	-3830 Jan 24 j 20:09	5°♋09'05	17.31546 AU
direct	-3830 Apr 10 j 16:40	3°♋05'15	
evening set	-3830 Jul 16 j 00:16	6°♋36'26	
max. Earth dist.	-3830 Jul 31 j 05:44	7°♋33'45	19.31885 AU
conjunction	-3830 Aug 01 j 07:02	7°♋37'46	0°39'14
minimum elong	-3830 Aug 01 j 07:02	7°♋37'46	0°39'24
morning rise	-3830 Aug 17 j 09:28	8°♋38'28	
retrograde	-3830 Nov 16 j 09:15	11°♋59'58	
opposition	-3829 Jan 28 j 22:52	9°♋58'18	0°45'03
min. Earth dist.	-3829 Jan 29 j 20:51	9°♋55'56	17.32436 AU
direct	-3829 Apr 15 j 21:28	7°♋52'00	
evening set	-3829 Jul 21 j 03:11	11°♋22'59	
max. Earth dist.	-3829 Aug 05 j 08:17	12°♋20'17	19.33034 AU
conjunction	-3829 Aug 06 j 08:37	12°♋24'08	0°41'31
minimum elong	-3829 Aug 06 j 08:36	12°♋24'08	0°41'40
morning rise	-3829 Aug 22 j 09:50	13°♋24'40	
retrograde	-3829 Nov 21 j 08:28	16°♋46'01	
opposition	-3828 Feb 03 j 01:24	14°♋44'23	0°47'27
min. Earth dist.	-3828 Feb 03 j 22:42	14°♋42'05	17.33852 AU
direct	-3828 Apr 20 j 01:06	12°♋38'09	
evening set	-3828 Jul 25 j 05:26	16°♋08'50	
max. Earth dist.	-3828 Aug 09 j 11:19	17°♋06'15	19.34723 AU
conjunction	-3828 Aug 10 j 09:33	17°♋09'46	0°43'31
minimum elong	-3828 Aug 10 j 09:33	17°♋09'46	0°43'41
morning rise	-3828 Aug 26 j 09:33	18°♋10'06	
retrograde	-3828 Nov 25 j 08:37	21°♋31'14	
opposition	-3827 Feb 07 j 03:54	19°♋29'39	0°49'30
min. Earth dist.	-3827 Feb 07 j 22:48	19°♋27'37	17.35806 AU
direct	-3827 Apr 25 j 06:16	17°♋23'34	
evening set	-3827 Jul 30 j 07:00	20°♋53'47	

Attention, astronomical year style is used: The year -3827 in astronomical counting style is the year 3828 BCE in historical counting style.

conjunction	-3827 Aug 15 j 09:48	21°♋54'30	0°45'13
minimum elong	-3827 Aug 15 j 09:48	21°♋54'30	0°45'22
max. Earth dist.	-3827 Aug 14 j 13:35	21°♋51'18	19.36966 AU
morning rise	-3827 Aug 31 j 08:33	22°♋54'37	
retrograde	-3827 Nov 30 j 07:05	26°♋15'32	
opposition	-3826 Feb 12 j 06:35	24°♋13'59	0°51'13
min. Earth dist.	-3826 Feb 13 j 00:28	24°♋12'05	17.38352 AU
direct	-3826 Apr 30 j 09:20	22°♋08'05	
evening set	-3826 Aug 04 j 07:39	25°♋37'46	
conjunction	-3826 Aug 20 j 09:09	26°♋38'14	0°46'36
minimum elong	-3826 Aug 20 j 09:09	26°♋38'14	0°46'44
max. Earth dist.	-3826 Aug 19 j 15:02	26°♋35'22	19.39814 AU
morning rise	-3826 Sep 05 j 06:51	27°♋38'08	
	-3826 Oct 19 j 19:33	0°♌	
retrograde	-3826 Dec 05 j 06:37	0°♌58'46	
	-3825 Jan 22 j 15:53	30°℞♋	
opposition	-3825 Feb 17 j 08:58	28°♋57'19	0°52'35
min. Earth dist.	-3825 Feb 17 j 23:48	28°♋55'43	17.41485 AU
direct	-3825 May 05 j 14:17	26°♋51'39	
	-3825 Aug 03 j 15:59	0°♌	
evening set	-3825 Aug 09 j 07:39	0°♌20'41	
conjunction	-3825 Aug 25 j 07:58	1°♌20'54	0°47'40
minimum elong	-3825 Aug 25 j 07:58	1°♌20'54	0°47'48
max. Earth dist.	-3825 Aug 24 j 16:32	1°♌18'28	19.43242 AU
morning rise	-3825 Sep 10 j 04:29	2°♌20'34	
retrograde	-3825 Dec 10 j 04:01	5°♌40'54	
opposition	-3824 Feb 22 j 11:15	3°♌39'34	0°53'35
min. Earth dist.	-3824 Feb 23 j 01:00	3°♌38'06	17.45204 AU
direct	-3824 May 09 j 16:58	1°♌34'12	
evening set	-3824 Aug 13 j 06:56	5°♌02'31	
conjunction	-3824 Aug 29 j 05:58	6°♌02'28	0°48'25
minimum elong	-3824 Aug 29 j 05:58	6°♌02'28	0°48'32
max. Earth dist.	-3824 Aug 28 j 16:19	6°♌00'19	19.47251 AU
morning rise	-3824 Sep 14 j 01:34	7°♌01'53	
retrograde	-3824 Dec 14 j 02:45	10°♌21'54	
opposition	-3823 Feb 26 j 13:22	8°♌20'43	0°54'14
min. Earth dist.	-3823 Feb 26 j 23:52	8°♌19'36	17.49467 AU
direct	-3823 May 14 j 21:02	6°♌15'43	
evening set	-3823 Aug 18 j 05:09	9°♌43'13	
conjunction	-3823 Sep 03 j 03:08	10°♌42'53	0°48'51
minimum elong	-3823 Sep 03 j 03:08	10°♌42'53	0°48'59
max. Earth dist.	-3823 Sep 02 j 16:42	10°♌41'14	19.51765 AU
morning rise	-3823 Sep 18 j 21:40	11°♌42'03	
	-3823 Dec 11 j 03:07	15°♌	
retrograde	-3823 Dec 18 j 23:34	15°♌01'43	
	-3823 Dec 26 j 22:14	15°℞♌	
opposition	-3822 Mar 03 j 15:26	13°♌00'42	0°54'31
min. Earth dist.	-3822 Mar 04 j 00:46	12°♌59'43	17.54210 AU
direct	-3822 May 19 j 22:51	10°♌56'05	
evening set	-3822 Aug 23 j 02:47	14°♌22'41	
	-3822 Sep 02 j 03:05	15°♌	
conjunction	-3822 Sep 07 j 23:33	15°♌22'04	0°48'57
minimum elong	-3822 Sep 07 j 23:33	15°♌22'04	0°49'04
max. Earth dist.	-3822 Sep 07 j 14:33	15°♌20'39	19.56731 AU
morning rise	-3822 Sep 23 j 17:22	16°♌21'00	
retrograde	-3822 Dec 23 j 21:28	19°♌40'16	
opposition	-3821 Mar 08 j 16:52	17°♌39'26	0°54'26
min. Earth dist.	-3821 Mar 08 j 23:09	17°♌38'46	17.59363 AU
direct	-3821 May 25 j 01:24	15°♌35'12	
evening set	-3821 Aug 27 j 23:26	19°♌00'50	
conjunction	-3821 Sep 12 j 19:19	19°♌59'55	0°48'44
minimum elong	-3821 Sep 12 j 19:19	19°♌59'55	0°48'51
max. Earth dist.	-3821 Sep 12 j 13:31	19°♌59'01	19.62052 AU
morning rise	-3821 Sep 28 j 12:10	20°♌58'36	
retrograde	-3821 Dec 28 j 17:27	24°♌17'27	
opposition	-3820 Mar 12 j 18:16	22°♌16'47	0°54'01
min. Earth dist.	-3820 Mar 12 j 23:23	22°♌16'15	17.64833 AU
direct	-3820 May 29 j 01:34	20°♌12'58	
evening set	-3820 Aug 31 j 19:19	23°♌37'32	
conjunction	-3820 Sep 16 j 14:02	24°♌36'19	0°48'12
minimum elong	-3820 Sep 16 j 14:02	24°♌36'19	0°48'18
max. Earth dist.	-3820 Sep 16 j 09:25	24°♌35'36	19.67662 AU
morning rise	-3820 Oct 02 j 06:20	25°♌34'44	
retrograde	-3819 Jan 01 j 14:56	28°♌53'09	
opposition	-3819 Mar 17 j 19:13	26°♌52'37	0°53'14
min. Earth dist.	-3819 Mar 17 j 21:28	26°♌52'22	17.70560 AU
direct	-3819 Jun 03 j 02:40	24°♌49'11	
evening set	-3819 Sep 05 j 14:13	28°♌12'38	
conjunction	-3819 Sep 21 j 08:13	29°♌11'08	0°47'22
minimum elong	-3819 Sep 21 j 08:13	29°♌11'08	0°47'27
max. Earth dist.	-3819 Sep 21 j 06:48	29°♌10'54	19.73488 AU
	-3819 Oct 04 j 11:01	0°♍	
morning rise	-3819 Oct 06 j 23:42	0°♍09'17	
retrograde	-3818 Jan 06 j 10:11	3°♍27'12	
opposition	-3818 Mar 22 j 19:43	1°♍26'48	0°52'07
min. Earth dist.	-3818 Mar 22 j 20:36	1°♍26'42	17.76469 AU
	-3818 Apr 30 j 09:37	30°℞♌	
direct	-3818 Jun 08 j 01:30	29°♌23'46	
	-3818 Jul 15 j 15:36	0°♍	
evening set	-3818 Sep 10 j 08:16	2°♍46'01	
conjunction	-3818 Sep 26 j 01:18	3°♍44'12	0°46'14
minimum elong	-3818 Sep 26 j 01:18	3°♍44'12	0°46'19
max. Earth dist.	-3818 Sep 26 j 00:50	3°♍44'08	19.79474 AU
morning rise	-3818 Oct 11 j 16:27	4°♍42'06	
retrograde	-3817 Jan 11 j 06:28	7°♍59'31	
opposition	-3817 Mar 27 j 19:35	5°♍59'12	0°50'41
min. Earth dist.	-3817 Mar 27 j 17:59	5°♍59'22	17.82515 AU
direct	-3817 Jun 13 j 01:16	3°♍56'32	
evening set	-3817 Sep 15 j 01:17	7°♍17'33	
conjunction	-3817 Sep 30 j 17:44	8°♍15'27	0°44'49
minimum elong	-3817 Sep 30 j 17:44	8°♍15'27	0°44'52
max. Earth dist.	-3817 Sep 30 j 20:23	8°♍15'51	19.85566 AU
morning rise	-3817 Oct 16 j 08:15	9°♍13'05	
retrograde	-3816 Jan 16 j 00:40	12°♍29'57	
opposition	-3816 Mar 31 j 18:49	10°♍29'42	0°48'56
min. Earth dist.	-3816 Mar 31 j 15:34	10°♍30'02	17.88641 AU
direct	-3816 Jun 16 j 23:41	8°♍27'24	
evening set	-3816 Sep 18 j 17:28	11°♍47'07	
conjunction	-3816 Oct 04 j 09:07	12°♍44'43	0°43'08
minimum elong	-3816 Oct 04 j 09:07	12°♍44'43	0°43'11
max. Earth dist.	-3816 Oct 04 j 12:48	12°♍45'17	19.91744 AU
morning rise	-3816 Oct 19 j 23:26	13°♍42'06	
retrograde	-3815 Jan 19 j 19:02	16°♍58'25	
opposition	-3815 Apr 05 j 17:28	14°♍58'11	0°46'54
min. Earth dist.	-3815 Apr 05 j 11:58	14°♍58'45	17.94867 AU
direct	-3815 Jun 21 j 21:48	12°♍56'14	
evening set	-3815 Sep 23 j 08:21	16°♍14'37	
conjunction	-3815 Oct 08 j 23:37	17°♍11'55	0°41'12
minimum elong	-3815 Oct 08 j 23:37	17°♍11'55	0°41'15
max. Earth dist.	-3815 Oct 09 j 06:33	17°♍12'59	19.98013 AU
morning rise	-3815 Oct 24 j 13:32	18°♍09'03	
retrograde	-3814 Jan 24 j 12:03	21°♍24'47	

Attention, astronomical year style is used: The year -3814 in astronomical counting style is the year 3815 BCE in historical counting style.

opposition	-3814 Apr 10 j 15:21	19°♍24'35	0°44'36
min. Earth dist.	-3814 Apr 10 j 07:45	19°♍25'22	18.01172 AU
direct	-3814 Jun 26 j 19:32	17°♍22'58	
evening set	-3814 Sep 27 j 22:33	20°♍40'01	
conjunction	-3814 Oct 13 j 13:10	21°♍37'01	0°39'02
minimum elong	-3814 Oct 13 j 13:10	21°♍37'01	0°39'04
max. Earth dist.	-3814 Oct 13 j 21:21	21°♍38'16	20.04371 AU
morning rise	-3814 Oct 29 j 03:04	22°♍33'55	
retrograde	-3813 Jan 29 j 04:00	25°♍49'04	
opposition	-3813 Apr 15 j 12:17	23°♍48'52	0°42'04
min. Earth dist.	-3813 Apr 15 j 02:42	23°♍49'51	18.07593 AU
direct	-3813 Jul 01 j 15:20	21°♍47'36	
evening set	-3813 Oct 02 j 11:39	25°♍03'19	
conjunction	-3813 Oct 18 j 02:01	26°♍00'03	0°36'40
minimum elong	-3813 Oct 18 j 02:01	26°♍00'03	0°36'42
max. Earth dist.	-3813 Oct 18 j 13:22	26°♍01'47	20.10845 AU
morning rise	-3813 Nov 02 j 15:38	26°♍56'42	
	-3812 Jan 13 j 00:13	0°♎	
retrograde	-3812 Feb 02 j 20:03	0°♎11'17	
	-3812 Feb 23 j 22:23	30°℞♍	
opposition	-3812 Apr 19 j 08:35	28°♍11'07	0°39'18
min. Earth dist.	-3812 Apr 18 j 20:30	28°♍12'22	18.14117 AU
direct	-3812 Jul 05 j 11:21	26°♍10'14	
evening set	-3812 Oct 05 j 23:56	29°♍24'37	
	-3812 Oct 15 j 19:14	0°♎	
conjunction	-3812 Oct 21 j 13:48	0°♎21'05	0°34'07
minimum elong	-3812 Oct 21 j 13:48	0°♎21'05	0°34'06
max. Earth dist.	-3812 Oct 22 j 02:36	0°♎23'02	20.17425 AU
morning rise	-3812 Nov 06 j 03:32	1°♎17'31	
retrograde	-3811 Feb 06 j 10:21	4°♎31'33	
opposition	-3811 Apr 24 j 04:15	2°♎31'27	0°36'21
min. Earth dist.	-3811 Apr 23 j 14:22	2°♎32'52	18.20757 AU
direct	-3811 Jul 10 j 04:37	0°♎30'56	
evening set	-3811 Oct 10 j 11:19	3°♎44'02	
conjunction	-3811 Oct 26 j 01:06	4°♎40'15	0°31'22
minimum elong	-3811 Oct 26 j 01:06	4°♎40'15	0°31'23
max. Earth dist.	-3811 Oct 26 j 16:51	4°♎42'38	20.24104 AU
morning rise	-3811 Nov 10 j 14:46	5°♎36'28	
retrograde	-3810 Feb 11 j 01:31	8°♎49'57	
opposition	-3810 Apr 28 j 22:53	6°♎49'57	0°33'12
min. Earth dist.	-3810 Apr 28 j 06:26	6°♎51'38	18.27458 AU
direct	-3810 Jul 14 j 22:43	4°♎49'51	
evening set	-3810 Oct 14 j 22:02	8°♎01'42	
conjunction	-3810 Oct 30 j 11:33	8°♎57'40	0°28'29
minimum elong	-3810 Oct 30 j 11:33	8°♎57'40	0°28'28
max. Earth dist.	-3810 Oct 31 j 04:34	9°♎00'14	20.30817 AU
morning rise	-3810 Nov 15 j 01:30	9°♎53'42	
retrograde	-3809 Feb 15 j 14:47	13°♎06'40	
opposition	-3809 May 03 j 16:58	11°♎06'46	0°29'54
min. Earth dist.	-3809 May 02 j 23:17	11°♎08'34	18.34175 AU
direct	-3809 Jul 19 j 13:36	9°♎07'06	
evening set	-3809 Oct 19 j 07:52	12°♎17'43	
conjunction	-3809 Nov 03 j 21:25	13°♎13'27	0°25'27
minimum elong	-3809 Nov 03 j 21:25	13°♎13'27	0°25'25
max. Earth dist.	-3809 Nov 04 j 16:56	13°♎16'23	20.37511 AU
morning rise	-3809 Nov 19 j 11:27	14°♎09'17	
retrograde	-3808 Feb 20 j 04:54	17°♎21'46	
opposition	-3808 May 07 j 10:12	15°♎22'00	0°26'26
min. Earth dist.	-3808 May 06 j 14:04	15°♎24'02	18.40824 AU
direct	-3808 Jul 23 j 06:01	13°♎22'45	
evening set	-3808 Oct 22 j 17:15	16°♎32'11	

conjunction	-3808 Nov 07 j 06:39	17°♎27'42	0°22'17
minimum elong	-3808 Nov 07 j 06:39	17°♎27'42	0°22'15
max. Earth dist.	-3808 Nov 08 j 03:16	17°♎30'47	20.44105 AU
morning rise	-3808 Nov 22 j 21:05	18°♎23'22	
retrograde	-3807 Feb 23 j 17:19	21°♎35'22	
min. Earth dist.	-3807 May 11 j 06:05	19°♎37'49	18.47359 AU
opposition	-3807 May 12 j 02:55	19°♎35'43	0°22'52
direct	-3807 Jul 27 j 19:14	17°♎36'52	
evening set	-3807 Oct 27 j 01:51	20°♎45'09	
conjunction	-3807 Nov 11 j 15:28	21°♎40'28	0°19'01
minimum elong	-3807 Nov 11 j 15:28	21°♎40'28	0°18'58
max. Earth dist.	-3807 Nov 12 j 14:02	21°♎43'50	20.50547 AU
morning rise	-3807 Nov 27 j 06:09	22°♎35'58	
retrograde	-3806 Feb 28 j 06:30	25°♎47'31	
opposition	-3806 May 16 j 18:43	23°♎47'58	0°19'11
min. Earth dist.	-3806 May 15 j 19:44	23°♎50'17	18.53685 AU
direct	-3806 Aug 01 j 09:47	21°♎49'31	
evening set	-3806 Oct 31 j 10:07	24°♎56'41	
conjunction	-3806 Nov 15 j 23:44	25°♎51'49	0°15'41
minimum elong	-3806 Nov 15 j 23:44	25°♎51'49	0°15'37
behind sun begin	-3806 Nov 15 j 21:49	25°♎51'32	
behind sun end	-3806 Nov 16 j 01:39	25°♎52'06	
max. Earth dist.	-3806 Nov 16 j 23:00	25°♎55'16	20.56736 AU
morning rise	-3806 Dec 01 j 14:55	26°♎47'10	
retrograde	-3805 Mar 04 j 17:45	29°♎58'15	
min. Earth dist.	-3805 May 20 j 10:46	28°♎01'07	18.59742 AU
opposition	-3805 May 21 j 09:50	27°♎58'48	0°15'25
direct	-3805 Aug 05 j 21:25	26°♎00'41	
evening set	-3805 Nov 04 j 17:46	29°♎06'48	
	-3805 Nov 19 j 19:47	0°♏	
conjunction	-3805 Nov 20 j 07:41	0°♏01'45	0°12'16
minimum elong	-3805 Nov 20 j 07:41	0°♏01'45	0°12'11
behind sun begin	-3805 Nov 20 j 03:13	0°♏01'06	
behind sun end	-3805 Nov 20 j 12:10	0°♏02'24	
max. Earth dist.	-3805 Nov 21 j 08:23	0°♏05'24	20.62635 AU
morning rise	-3805 Dec 05 j 23:15	0°♏56'57	
retrograde	-3804 Mar 08 j 06:01	4°♏07'36	
min. Earth dist.	-3804 May 23 j 23:17	2°♏10'43	18.65466 AU
opposition	-3804 May 25 j 00:16	2°♏08'13	0°11'36
direct	-3804 Aug 09 j 10:33	0°♏10'25	
evening set	-3804 Nov 08 j 00:52	3°♏15'29	
conjunction	-3804 Nov 23 j 14:58	4°♏10'16	0°08'49
minimum elong	-3804 Nov 23 j 14:59	4°♏10'16	0°08'45
behind sun begin	-3804 Nov 23 j 09:17	4°♏09'27	
behind sun end	-3804 Nov 23 j 20:40	4°♏11'05	
max. Earth dist.	-3804 Nov 24 j 16:13	4°♏13'59	20.68171 AU
morning rise	-3804 Dec 09 j 07:10	5°♏05'22	
retrograde	-3803 Mar 12 j 16:17	8°♏15'34	
opposition	-3803 May 29 j 14:09	6°♏16'13	0°07'44
min. Earth dist.	-3803 May 28 j 13:25	6°♏18'41	18.70823 AU
direct	-3803 Aug 13 j 20:34	4°♏18'40	
evening set	-3803 Nov 12 j 07:28	7°♏22'44	
conjunction	-3803 Nov 27 j 22:02	8°♏17'23	0°05'21
minimum elong	-3803 Nov 27 j 22:03	8°♏17'23	0°05'15
behind sun begin	-3803 Nov 27 j 15:43	8°♏16'28	
behind sun end	-3803 Nov 28 j 04:23	8°♏18'17	
max. Earth dist.	-3803 Nov 29 j 00:22	8°♏21'15	20.73339 AU
morning rise	-3803 Dec 13 j 14:47	9°♏12'21	
retrograde	-3802 Mar 17 j 03:45	12°♏22'07	
min. Earth dist.	-3802 Jun 02 j 00:33	10°♏25'24	18.75796 AU
opposition	-3802 Jun 03 j 02:55	10°♏22'46	0°03'52
direct	-3802 Aug 18 j 08:28	8°♏25'26	

Attention, astronomical year style is used: The year -3802 in astronomical counting style is the year 3803 BCE in historical counting style.

evening set	-3802 Nov 16 j 13:38	11°♏28'32	
conjunction	-3802 Dec 02 j 04:34	12°♏23'03	0°01'50
minimum elong	-3802 Dec 02 j 04:33	12°♏23'03	0°01'45
behind sun begin	-3802 Dec 01 j 22:00	12°♏22'07	
behind sun end	-3802 Dec 02 j 11:06	12°♏23'59	
max. Earth dist.	-3802 Dec 03 j 07:20	12°♏26'58	20.78119 AU
morning rise	-3802 Dec 17 j 22:01	13°♏17'56	
	-3801 Jan 19 j 15:23	15°♏	
retrograde	-3801 Mar 21 j 12:41	16°♏27'17	
	-3801 May 25 j 02:23	15°℞♏	
opposition	-3801 Jun 07 j 15:13	14°♏27'54	0°00'01
min. Earth dist.	-3801 Jun 06 j 13:18	14°♏30'29	18.80406 AU
desc. node	-3801 Jun 08 j 14:27	14°♏25'34	
direct	-3801 Aug 22 j 16:49	12°♏30'45	
	-3801 Nov 10 j 23:00	15°♏	
evening set	-3801 Nov 20 j 19:07	15°♏32'57	
conjunction	-3801 Dec 06 j 10:34	16°♏27'21	-0°01'45
minimum elong	-3801 Dec 06 j 10:34	16°♏27'21	0°01'51
behind sun begin	-3801 Dec 06 j 04:02	16°♏26'25	
behind sun end	-3801 Dec 06 j 17:07	16°♏28'16	
max. Earth dist.	-3801 Dec 07 j 14:26	16°♏31'25	20.82560 AU
morning rise	-3801 Dec 22 j 04:39	17°♏22'08	
retrograde	-3800 Mar 24 j 23:24	20°♏31'06	
min. Earth dist.	-3800 Jun 09 j 23:03	18°♏34'25	18.84685 AU
opposition	-3800 Jun 11 j 02:41	18°♏31'40	-0°03'49
direct	-3800 Aug 26 j 03:35	16°♏34'41	
evening set	-3800 Nov 24 j 00:26	19°♏36'02	
conjunction	-3800 Dec 09 j 16:19	20°♏30'20	-0°05'12
minimum elong	-3800 Dec 09 j 16:19	20°♏30'20	0°05'20
behind sun begin	-3800 Dec 09 j 09:58	20°♏29'27	
behind sun end	-3800 Dec 09 j 22:39	20°♏31'14	
max. Earth dist.	-3800 Dec 10 j 20:45	20°♏34'28	20.86679 AU
morning rise	-3800 Dec 25 j 11:12	21°♏25'04	
retrograde	-3799 Mar 29 j 07:45	24°♏33'40	
min. Earth dist.	-3799 Jun 14 j 10:25	22°♏36'55	18.88671 AU
opposition	-3799 Jun 15 j 13:32	22°♏34'12	-0°07'37
direct	-3799 Aug 30 j 10:30	20°♏37'22	
evening set	-3799 Nov 28 j 05:17	23°♏37'58	
conjunction	-3799 Dec 13 j 21:51	24°♏32'11	-0°08'35
minimum elong	-3799 Dec 13 j 21:52	24°♏32'11	0°08'42
behind sun begin	-3799 Dec 13 j 16:09	24°♏31'23	
behind sun end	-3799 Dec 14 j 03:34	24°♏32'59	
max. Earth dist.	-3799 Dec 15 j 03:07	24°♏36'26	20.90523 AU
morning rise	-3799 Dec 29 j 17:29	25°♏26'51	
retrograde	-3798 Apr 02 j 17:42	28°♏35'08	
opposition	-3798 Jun 19 j 23:37	26°♏35'38	-0°11'21
min. Earth dist.	-3798 Jun 18 j 18:57	26°♏38'31	18.92370 AU
direct	-3798 Sep 03 j 19:54	24°♏38'59	
evening set	-3798 Dec 02 j 10:01	27°♏38'53	
conjunction	-3798 Dec 18 j 03:07	28°♏33'03	-0°11'55
minimum elong	-3798 Dec 18 j 03:07	28°♏33'03	0°12'04
behind sun begin	-3798 Dec 17 j 22:35	28°♏32'24	
behind sun end	-3798 Dec 18 j 07:38	28°♏33'41	
max. Earth dist.	-3798 Dec 19 j 08:44	28°♏37'20	20.94064 AU
morning rise	-3797 Jan 02 j 23:34	29°♏27'40	
	-3797 Jan 12 j 17:12	0°♐	
retrograde	-3797 Apr 07 j 01:58	2°♐35'41	
min. Earth dist.	-3797 Jun 23 j 05:16	0°♐39'00	18.95772 AU
opposition	-3797 Jun 24 j 09:14	0°♐36'11	-0°15'01
	-3797 Jul 09 j 16:41	30°℞♏	
direct	-3797 Sep 08 j 01:55	28°♏39'41	
	-3797 Nov 04 j 07:34	0°♐	

evening set	-3797 Dec 06 j 14:28	1°♐39'00	
conjunction	-3797 Dec 22 j 08:20	2°♐33'06	-0°15'12
minimum elong	-3797 Dec 22 j 08:20	2°♐33'06	0°15'19
behind sun begin	-3797 Dec 22 j 06:10	2°♐32'48	
behind sun end	-3797 Dec 22 j 10:30	2°♐33'25	
max. Earth dist.	-3797 Dec 23 j 14:29	2°♐37'27	20.97321 AU
morning rise	-3796 Jan 07 j 05:35	3°♐27'43	
retrograde	-3796 Apr 10 j 11:26	6°♐35'29	
opposition	-3796 Jun 27 j 18:18	4°♐36'01	-0°18'36
min. Earth dist.	-3796 Jun 26 j 13:04	4°♐38'57	18.98867 AU
direct	-3796 Sep 11 j 09:43	2°♐39'40	
evening set	-3796 Dec 09 j 18:51	5°♐38'27	
conjunction	-3796 Dec 25 j 13:22	6°♐32'32	-0°18'23
minimum elong	-3796 Dec 25 j 13:22	6°♐32'32	0°18'32
max. Earth dist.	-3796 Dec 26 j 19:39	6°♐36'53	21.00240 AU
morning rise	-3795 Jan 10 j 11:35	7°♐27'08	
retrograde	-3795 Apr 14 j 19:27	10°♐34'43	
min. Earth dist.	-3795 Jun 30 j 22:52	8°♐38'06	19.01612 AU
opposition	-3795 Jul 02 j 03:04	8°♐35'17	-0°22'05
direct	-3795 Sep 15 j 15:21	6°♐39'05	
evening set	-3795 Dec 13 j 23:17	9°♐37'25	
conjunction	-3795 Dec 29 j 18:39	10°♐31'30	-0°21'30
minimum elong	-3795 Dec 29 j 18:39	10°♐31'30	0°21'38
max. Earth dist.	-3795 Dec 31 j 00:59	10°♐35'51	21.02800 AU
morning rise	-3794 Jan 14 j 17:44	11°♐26'06	
retrograde	-3794 Apr 19 j 04:59	14°♐33'32	
min. Earth dist.	-3794 Jul 05 j 06:11	12°♐37'02	19.03966 AU
opposition	-3794 Jul 06 j 11:06	12°♐34'08	-0°25'27
direct	-3794 Sep 19 j 21:45	10°♐38'04	
evening set	-3794 Dec 18 j 03:50	13°♐36'03	
conjunction	-3793 Jan 02 j 23:55	14°♐30'08	-0°24'29
minimum elong	-3793 Jan 02 j 23:55	14°♐30'08	0°24'38
max. Earth dist.	-3793 Jan 04 j 05:56	14°♐34'26	21.04931 AU
morning rise	-3793 Jan 18 j 23:57	15°♐24'46	
retrograde	-3793 Apr 23 j 12:18	18°♐32'05	
opposition	-3793 Jul 10 j 19:04	16°♐32'43	-0°28'42
min. Earth dist.	-3793 Jul 09 j 15:37	16°♐35'28	19.05875 AU
direct	-3793 Sep 24 j 02:59	14°♐36'46	
evening set	-3793 Dec 22 j 08:17	17°♐34'27	
conjunction	-3792 Jan 07 j 05:17	18°♐28'34	-0°27'22
minimum elong	-3792 Jan 07 j 05:16	18°♐28'34	0°27'32
max. Earth dist.	-3792 Jan 08 j 10:55	18°♐32'48	21.06605 AU
morning rise	-3792 Jan 23 j 06:12	19°♐23'14	
retrograde	-3792 Apr 26 j 22:18	22°♐30'30	
min. Earth dist.	-3792 Jul 12 j 22:52	20°♐33'55	19.07293 AU
opposition	-3792 Jul 14 j 02:38	20°♐31'08	-0°31'49
direct	-3792 Sep 27 j 08:58	18°♐35'14	
evening set	-3792 Dec 25 j 13:11	21°♐32'44	
conjunction	-3791 Jan 10 j 10:58	22°♐26'52	-0°30'07
minimum elong	-3791 Jan 10 j 10:58	22°♐26'52	0°30'16
max. Earth dist.	-3791 Jan 11 j 15:51	22°♐31'00	21.07747 AU
morning rise	-3791 Jan 26 j 12:54	23°♐21'36	
retrograde	-3791 May 01 j 05:16	26°♐28'49	
min. Earth dist.	-3791 Jul 17 j 08:03	24°♐32'03	19.08164 AU
opposition	-3791 Jul 18 j 09:55	24°♐29'27	-0°34'46
direct	-3791 Oct 01 j 13:29	22°♐33'35	
evening set	-3791 Dec 29 j 18:10	25°♐30'55	
conjunction	-3790 Jan 14 j 16:57	26°♐25'07	-0°32'44
minimum elong	-3790 Jan 14 j 16:57	26°♐25'07	0°32'53
max. Earth dist.	-3790 Jan 15 j 20:51	26°♐29'06	21.08341 AU

Attention, astronomical year style is used: The year -3790 in astronomical counting style is the year 3791 BCE in historical counting style.

morning rise	-3790 Jan 30 j 19:51	27°♐19'55	
	-3790 Apr 01 j 20:25	0°♑	
retrograde	-3790 May 05 j 15:19	0°♑27'06	
	-3790 Jun 08 j 20:32	30°℞♐	
opposition	-3790 Jul 22 j 16:53	28°♐27'42	-0°37'34
min. Earth dist.	-3790 Jul 21 j 15:08	28°♐30'17	19.08463 AU
direct	-3790 Oct 05 j 19:39	26°♐31'47	
evening set	-3789 Jan 02 j 23:20	29°♐29'02	
	-3789 Jan 12 j 03:14	0°♑	
conjunction	-3789 Jan 18 j 22:59	0°♑23'19	-0°35'10
minimum elong	-3789 Jan 18 j 22:59	0°♑23'19	0°35'19
max. Earth dist.	-3789 Jan 20 j 01:49	0°♑27'09	21.08344 AU
morning rise	-3789 Feb 04 j 02:52	1°♑18'12	
retrograde	-3789 May 09 j 21:55	4°♑25'23	
opposition	-3789 Jul 26 j 23:42	2°♑25'54	-0°40'10
min. Earth dist.	-3789 Jul 25 j 23:57	2°♑28'18	19.08188 AU
direct	-3789 Oct 09 j 23:34	0°♑29'55	
evening set	-3788 Jan 07 j 04:37	3°♑27'09	
conjunction	-3788 Jan 23 j 05:19	4°♑21'31	-0°37'26
minimum elong	-3788 Jan 23 j 05:18	4°♑21'31	0°37'36
max. Earth dist.	-3788 Jan 24 j 07:05	4°♑25'11	21.07815 AU
morning rise	-3788 Feb 08 j 10:11	5°♑16'29	
retrograde	-3788 May 13 j 07:35	8°♑23'41	
min. Earth dist.	-3788 Jul 29 j 06:38	6°♑26'29	19.07398 AU
opposition	-3788 Jul 30 j 06:08	6°♑24'07	-0°42'35
direct	-3788 Oct 13 j 05:57	4°♑28'00	
evening set	-3787 Jan 10 j 10:12	7°♑25'16	
conjunction	-3787 Jan 26 j 11:52	8°♑19'45	-0°39'32
minimum elong	-3787 Jan 26 j 11:51	8°♑19'45	0°39'41
max. Earth dist.	-3787 Jan 27 j 12:35	8°♑23'16	21.06777 AU
morning rise	-3787 Feb 11 j 17:47	9°♑14'50	
retrograde	-3787 May 17 j 14:22	12°♑22'05	
opposition	-3787 Aug 03 j 12:29	10°♑22'24	-0°44'47
min. Earth dist.	-3787 Aug 02 j 15:01	10°♑24'34	19.06130 AU
direct	-3787 Oct 17 j 09:43	8°♑26'09	
evening set	-3786 Jan 14 j 16:05	11°♑23'33	
conjunction	-3786 Jan 30 j 18:47	12°♑18'09	-0°41'26
minimum elong	-3786 Jan 30 j 18:47	12°♑18'09	0°41'35
max. Earth dist.	-3786 Jan 31 j 18:19	12°♑21'30	21.05301 AU
morning rise	-3786 Feb 16 j 01:41	13°♑13'20	
retrograde	-3786 May 21 j 23:42	16°♑20'41	
opposition	-3786 Aug 07 j 18:24	14°♑20'53	-0°46'46
min. Earth dist.	-3786 Aug 06 j 21:14	14°♑23'02	19.04448 AU
direct	-3786 Oct 21 j 15:42	12°♑24'28	
evening set	-3785 Jan 18 j 22:19	15°♑22'05	
conjunction	-3785 Feb 04 j 01:59	16°♑16'50	-0°43'08
minimum elong	-3785 Feb 04 j 01:59	16°♑16'50	0°43'17
max. Earth dist.	-3785 Feb 05 j 00:27	16°♑20'01	21.03419 AU
morning rise	-3785 Feb 20 j 09:51	17°♑12'09	
retrograde	-3785 May 26 j 07:04	20°♑19'38	
min. Earth dist.	-3785 Aug 11 j 05:15	18°♑21'42	19.02386 AU
opposition	-3785 Aug 12 j 00:29	18°♑19'44	-0°48'33
direct	-3785 Oct 25 j 19:38	16°♑23'10	
evening set	-3784 Jan 23 j 04:46	19°♑21'03	
conjunction	-3784 Feb 08 j 09:31	20°♑15'57	-0°44'38
minimum elong	-3784 Feb 08 j 09:30	20°♑15'57	0°44'46
max. Earth dist.	-3784 Feb 09 j 06:42	20°♑18'58	21.01194 AU
morning rise	-3784 Feb 24 j 18:23	21°♑11'26	
retrograde	-3784 May 29 j 16:26	24°♑19'06	
min. Earth dist.	-3784 Aug 14 j 11:35	22°♑21'02	18.99986 AU
opposition	-3784 Aug 15 j 06:27	22°♑19'07	-0°50'05
direct	-3784 Oct 29 j 01:09	20°♑22'22	
evening set	-3783 Jan 26 j 11:55	23°♑20'38	
conjunction	-3783 Feb 11 j 17:41	24°♑15'42	-0°45'55
minimum elong	-3783 Feb 11 j 17:41	24°♑15'42	0°46'04
max. Earth dist.	-3783 Feb 12 j 13:40	24°♑18'32	20.98620 AU
morning rise	-3783 Feb 28 j 03:31	25°♑11'20	
retrograde	-3783 Jun 03 j 00:40	28°♑19'14	
opposition	-3783 Aug 19 j 12:26	26°♑19'10	-0°51'24
min. Earth dist.	-3783 Aug 18 j 19:38	26°♑20'53	18.97247 AU
direct	-3783 Nov 02 j 05:25	24°♑22'15	
evening set	-3782 Jan 30 j 19:34	27°♑20'58	
conjunction	-3782 Feb 16 j 02:25	28°♑16'14	-0°46'59
minimum elong	-3782 Feb 16 j 02:25	28°♑16'14	0°47'07
max. Earth dist.	-3782 Feb 16 j 20:43	28°♑18'50	20.95730 AU
morning rise	-3782 Mar 04 j 13:13	29°♑12'03	
	-3782 Mar 19 j 09:40	0°♒	
retrograde	-3782 Jun 07 j 10:33	2°♒20'12	
opposition	-3782 Aug 23 j 18:31	0°♒20'05	-0°52'28
min. Earth dist.	-3782 Aug 23 j 02:21	0°♒21'45	18.94188 AU
	-3782 Aug 31 j 23:35	30°℞♑	
direct	-3782 Nov 06 j 11:01	28°♑22'59	
	-3781 Jan 08 j 16:59	0°♒	
evening set	-3781 Feb 04 j 03:44	1°♒22'15	
conjunction	-3781 Feb 20 j 11:34	2°♒17'42	-0°47'50
minimum elong	-3781 Feb 20 j 11:34	2°♒17'42	0°47'59
max. Earth dist.	-3781 Feb 21 j 04:35	2°♒20'08	20.92497 AU
morning rise	-3781 Mar 08 j 23:16	3°♒13'42	
retrograde	-3781 Jun 11 j 19:30	6°♒22'10	
min. Earth dist.	-3781 Aug 27 j 10:57	4°♒23'27	18.90781 AU
opposition	-3781 Aug 28 j 00:54	4°♒22'01	-0°53'17
direct	-3781 Nov 10 j 15:39	2°♒24'45	
evening set	-3780 Feb 08 j 12:41	5°♒24'36	
conjunction	-3780 Feb 24 j 21:34	6°♒20'17	-0°48'27
minimum elong	-3780 Feb 24 j 21:34	6°♒20'17	0°48'35
max. Earth dist.	-3780 Feb 25 j 12:33	6°♒22'25	20.88931 AU
morning rise	-3780 Mar 12 j 10:13	7°♒16'28	
retrograde	-3780 Jun 15 j 06:42	10°♒25'17	
opposition	-3780 Aug 31 j 07:19	8°♒25'05	-0°53'50
min. Earth dist.	-3780 Aug 30 j 18:27	8°♒26'25	18.87027 AU
direct	-3780 Nov 13 j 21:53	6°♒27'36	
evening set	-3779 Feb 11 j 22:28	9°♒28'09	
conjunction	-3779 Feb 28 j 08:24	10°♒24'03	-0°48'50
minimum elong	-3779 Feb 28 j 08:24	10°♒24'03	0°48'57
max. Earth dist.	-3779 Feb 28 j 21:41	10°♒25'57	20.84975 AU
morning rise	-3779 Mar 16 j 21:52	11°♒20'28	
retrograde	-3779 Jun 19 j 16:31	14°♒29'38	
opposition	-3779 Sep 04 j 14:10	12°♒29'24	-0°54'08
min. Earth dist.	-3779 Sep 04 j 03:54	12°♒30'27	18.82864 AU
direct	-3779 Nov 18 j 03:17	10°♒31'41	
evening set	-3778 Feb 16 j 09:02	13°♒32'58	
conjunction	-3778 Mar 04 j 19:55	14°♒29'06	-0°48'58
minimum elong	-3778 Mar 04 j 19:55	14°♒29'06	0°49'05
max. Earth dist.	-3778 Mar 05 j 06:34	14°♒30'38	20.80610 AU
	-3778 Mar 13 j 19:52	15°♒	
morning rise	-3778 Mar 21 j 10:16	15°♒25'44	
retrograde	-3778 Jun 24 j 04:43	18°♒35'17	
opposition	-3778 Sep 08 j 21:11	16°♒34'58	-0°54'08
min. Earth dist.	-3778 Sep 08 j 12:23	16°♒35'53	18.78279 AU
	-3778 Oct 23 j 06:18	15°℞♒	
direct	-3778 Nov 22 j 10:27	14°♒36'59	
	-3778 Dec 22 j 04:23	15°♒	

Attention, astronomical year style is used: The year -3777 in astronomical counting style is the year 3778 BCE in historical counting style.

evening set	-3777 Feb 20 j 20:21	17°♒39'04		
conjunction	-3777 Mar 09 j 08:15	18°♒35'27	-0°48'50	
minimum elong	-3777 Mar 09 j 08:15	18°♒35'27	0°48'56	
max. Earth dist.	-3777 Mar 09 j 16:57	18°♒36'42	20.75800 AU	
morning rise	-3777 Mar 25 j 23:17	19°♒32'18		
retrograde	-3777 Jun 28 j 15:34	22°♒42'15		
opposition	-3777 Sep 13 j 04:42	20°♒41'50	-0°53'52	
min. Earth dist.	-3777 Sep 12 j 22:32	20°♒42'28	18.73249 AU	
direct	-3777 Nov 26 j 17:02	18°♒43'31		
evening set	-3776 Feb 25 j 08:18	21°♒46'26		
conjunction	-3776 Mar 12 j 21:10	22°♒43'04	-0°48'27	
minimum elong	-3776 Mar 12 j 21:11	22°♒43'04	0°48'34	
max. Earth dist.	-3776 Mar 13 j 02:55	22°♒43'54	20.70573 AU	
morning rise	-3776 Mar 29 j 13:06	23°♒40'09		
retrograde	-3776 Jul 02 j 04:21	26°♒50'31		
opposition	-3776 Sep 16 j 12:28	24°♒49'57	-0°53'19	
min. Earth dist.	-3776 Sep 16 j 07:55	24°♒50'25	18.67811 AU	
direct	-3776 Nov 30 j 01:17	22°♒51'16		
evening set	-3775 Feb 28 j 21:11	25°♒55'04		
conjunction	-3775 Mar 17 j 11:02	26°♒51'59	-0°47'49	
minimum elong	-3775 Mar 17 j 11:02	26°♒51'59	0°47'54	
max. Earth dist.	-3775 Mar 17 j 14:53	26°♒52'32	20.64939 AU	
morning rise	-3775 Apr 03 j 03:34	27°♒49'18		
	-3775 May 17 j 19:06	0°♓		
retrograde	-3775 Jul 06 j 16:03	1°♓00'03		
	-3775 Aug 26 j 12:05	30°℞♒		
opposition	-3775 Sep 20 j 20:33	28°♒59'20	-0°52'29	
min. Earth dist.	-3775 Sep 20 j 18:34	28°♒59'32	18.61998 AU	
direct	-3775 Dec 04 j 09:12	27°♒00'16		
	-3774 Mar 03 j 23:14	0°♓		
evening set	-3774 Mar 05 j 10:47	0°♓05'00		
conjunction	-3774 Mar 22 j 01:28	1°♓02'11	-0°46'56	
minimum elong	-3774 Mar 22 j 01:28	1°♓02'11	0°47'01	
max. Earth dist.	-3774 Mar 22 j 02:16	1°♓02'17	20.58984 AU	
morning rise	-3774 Apr 07 j 18:45	1°♓59'44		
retrograde	-3774 Jul 11 j 05:27	5°♓10'56		
opposition	-3774 Sep 25 j 05:00	3°♓10'02	-0°51'22	
min. Earth dist.	-3774 Sep 25 j 04:36	3°♓10'04	18.55903 AU	
direct	-3774 Dec 08 j 18:31	1°♓10'32		
evening set	-3773 Mar 10 j 00:56	4°♓16'16		
conjunction	-3773 Mar 26 j 16:33	5°♓13'44	-0°45'47	
minimum elong	-3773 Mar 26 j 16:33	5°♓13'44	0°45'51	
max. Earth dist.	-3773 Mar 26 j 15:50	5°♓13'38	20.52762 AU	
morning rise	-3773 Apr 12 j 10:17	6°♓11'32		
retrograde	-3773 Jul 15 j 18:02	9°♓23'11		
opposition	-3773 Sep 29 j 13:57	7°♓22'07	-0°49'59	
min. Earth dist.	-3773 Sep 29 j 15:46	7°♓21'55	18.49577 AU	
direct	-3773 Dec 13 j 03:31	5°♓22'13		
evening set	-3772 Mar 13 j 16:09	8°♓28'58		
conjunction	-3772 Mar 30 j 08:28	9°♓26'44	-0°44'23	
minimum elong	-3772 Mar 30 j 08:28	9°♓26'44	0°44'26	
max. Earth dist.	-3772 Mar 30 j 04:42	9°♓26'11	20.46365 AU	
morning rise	-3772 Apr 16 j 02:53	10°♓24'47		
retrograde	-3772 Jul 19 j 08:28	13°♓36'55		
opposition	-3772 Oct 02 j 23:12	11°♓35'41	-0°48'18	
min. Earth dist.	-3772 Oct 03 j 02:38	11°♓35'19	18.43114 AU	
direct	-3772 Dec 16 j 14:01	9°♓35'21		
evening set	-3771 Mar 18 j 08:10	12°♓43'13		
conjunction	-3771 Apr 04 j 01:20	13°♓41'16	-0°42'44	
minimum elong	-3771 Apr 04 j 01:20	13°♓41'16	0°42'47	
max. Earth dist.	-3771 Apr 03 j 20:15	13°♓40'32	20.39840 AU	
morning rise	-3771 Apr 20 j 20:02	14°♓39'36		
retrograde	-3771 Jul 23 j 22:20	17°♓52'12		
opposition	-3771 Oct 07 j 09:09	15°♓50'50	-0°46'21	
min. Earth dist.	-3771 Oct 07 j 14:31	15°♓50'16	18.36550 AU	
direct	-3771 Dec 20 j 23:56	13°♓50'07		
evening set	-3770 Mar 23 j 01:02	16°♓59'08		
conjunction	-3770 Apr 08 j 18:43	17°♓57'29	-0°40'51	
minimum elong	-3770 Apr 08 j 18:44	17°♓57'29	0°40'52	
max. Earth dist.	-3770 Apr 08 j 10:34	17°♓56'17	20.33261 AU	
morning rise	-3770 Apr 25 j 13:55	18°♓56'03		
retrograde	-3770 Jul 28 j 14:03	22°♓09'13		
opposition	-3770 Oct 11 j 19:37	20°♓07'43	-0°44'09	
min. Earth dist.	-3770 Oct 12 j 02:32	20°♓06'59	18.29966 AU	
direct	-3770 Dec 25 j 11:51	18°♓06'36		
evening set	-3769 Mar 27 j 18:42	21°♓16'50		
conjunction	-3769 Apr 13 j 13:09	22°♓15'29	-0°38'43	
minimum elong	-3769 Apr 13 j 13:09	22°♓15'29	0°38'45	
max. Earth dist.	-3769 Apr 13 j 04:00	22°♓14'08	20.26673 AU	
morning rise	-3769 Apr 30 j 08:28	23°♓14'19		
retrograde	-3769 Aug 02 j 05:13	26°♓28'01		
opposition	-3769 Oct 16 j 06:42	24°♓26'26	-0°41'40	
min. Earth dist.	-3769 Oct 16 j 15:19	24°♓25'31	18.23387 AU	
direct	-3769 Dec 29 j 22:54	22°♓24'58		
evening set	-3768 Mar 31 j 13:25	25°♓36'27		
conjunction	-3768 Apr 17 j 08:17	26°♓35'24	-0°36'21	
minimum elong	-3768 Apr 17 j 08:17	26°♓35'24	0°36'22	
max. Earth dist.	-3768 Apr 16 j 19:58	26°♓33'35	20.20121 AU	
morning rise	-3768 May 04 j 04:01	27°♓34'29		
	-3768 Jun 23 j 01:09	0°♈		
retrograde	-3768 Aug 05 j 22:21	0°♈48'46		
	-3768 Sep 19 j 07:18	30°℞♓		
opposition	-3768 Oct 19 j 18:32	28°♓47'07	-0°38'56	
min. Earth dist.	-3768 Oct 20 j 04:56	28°♓46'01	18.16854 AU	
direct	-3767 Jan 02 j 12:21	26°♓45'18		
evening set	-3767 Apr 05 j 09:04	29°♓58'05		
	-3767 Apr 05 j 22:20	0°♈		
conjunction	-3767 Apr 22 j 04:32	0°♈57'20	-0°33'46	
minimum elong	-3767 Apr 22 j 04:32	0°♈57'20	0°33'46	
max. Earth dist.	-3767 Apr 21 j 15:17	0°♈55'23	20.13599 AU	
morning rise	-3767 May 09 j 00:11	1°♈56'40		
retrograde	-3767 Aug 10 j 14:44	5°♈11'31		
opposition	-3767 Oct 24 j 07:00	3°♈09'51	-0°35'57	
min. Earth dist.	-3767 Oct 24 j 19:02	3°♈08'34	18.10346 AU	
direct	-3766 Jan 07 j 01:39	1°♈07'42		
evening set	-3766 Apr 10 j 05:48	4°♈21'49		
max. Earth dist.	-3766 Apr 26 j 08:55	5°♈18'54	20.07114 AU	
conjunction	-3766 Apr 27 j 01:27	5°♈21'21	-0°30'58	
minimum elong	-3766 Apr 27 j 01:27	5°♈21'21	0°30'58	
morning rise	-3766 May 13 j 21:17	6°♈20'56		
retrograde	-3766 Aug 15 j 08:32	9°♈36'23		
opposition	-3766 Oct 28 j 20:21	7°♈34'40	-0°32'44	
min. Earth dist.	-3766 Oct 29 j 10:27	7°♈33'09	18.03882 AU	
direct	-3765 Jan 11 j 16:32	5°♈32'11		
evening set	-3765 Apr 15 j 03:11	8°♈47'37		
conjunction	-3765 May 01 j 23:17	9°♈47'26	-0°27'57	
minimum elong	-3765 May 01 j 23:17	9°♈47'26	0°27'55	
max. Earth dist.	-3765 May 01 j 05:49	9°♈44'50	20.00650 AU	
morning rise	-3765 May 18 j 18:54	10°♈47'15		
retrograde	-3765 Aug 20 j 02:27	14°♈03'16		
opposition	-3765 Nov 02 j 10:30	12°♈01'31	-0°29'17	

Attention, astronomical year style is used: The year -3765 in astronomical counting style is the year 3766 BCE in historical counting style.

min. Earth dist.	-3765 Nov 03 j 02:04	11°♈59'50	17.97420 AU
direct	-3764 Jan 16 j 08:49	9°♈58'41	
evening set	-3764 Apr 19 j 01:52	13°♈15'26	
conjunction	-3764 May 05 j 21:58	14°♈15'31	-0°24'44
minimum elong	-3764 May 05 j 21:58	14°♈15'31	0°24'43
max. Earth dist.	-3764 May 05 j 01:06	14°♈12'24	19.94196 AU
morning rise	-3764 May 22 j 17:33	15°♈15'34	
retrograde	-3764 Aug 23 j 20:30	18°♈32'08	
opposition	-3764 Nov 06 j 01:23	16°♈30'19	-0°25'38
min. Earth dist.	-3764 Nov 06 j 19:16	16°♈28'23	17.90985 AU
direct	-3763 Jan 20 j 01:37	14°♈27'06	
evening set	-3763 Apr 24 j 01:13	17°♈45'09	
conjunction	-3763 May 10 j 21:34	18°♈45'31	-0°21'22
minimum elong	-3763 May 10 j 21:34	18°♈45'31	0°21'19
max. Earth dist.	-3763 May 09 j 23:41	18°♈42'13	19.87773 AU
morning rise	-3763 May 27 j 16:44	19°♈45'45	
retrograde	-3763 Aug 28 j 15:55	23°♈02'50	
opposition	-3763 Nov 10 j 17:07	21°♈00'57	-0°21'48
min. Earth dist.	-3763 Nov 11 j 12:07	20°♈58'53	17.84587 AU
direct	-3762 Jan 24 j 20:37	18°♈57'21	
evening set	-3762 Apr 29 j 01:20	22°♈16'40	
conjunction	-3762 May 15 j 21:29	23°♈17'15	-0°17'50
minimum elong	-3762 May 15 j 21:29	23°♈17'15	0°17'47
max. Earth dist.	-3762 May 14 j 20:41	23°♈13'30	19.81416 AU
morning rise	-3762 Jun 01 j 16:22	24°♈17'41	
retrograde	-3762 Sep 02 j 10:35	27°♈35'17	
opposition	-3762 Nov 15 j 09:38	25°♈33'17	-0°17'48
min. Earth dist.	-3762 Nov 16 j 06:49	25°♈30'59	17.78301 AU
direct	-3761 Jan 29 j 15:06	23°♈29'17	
evening set	-3761 May 04 j 02:03	26°♈49'50	
conjunction	-3761 May 20 j 22:13	27°♈50'39	-0°14'10
minimum elong	-3761 May 20 j 22:13	27°♈50'39	0°14'07
behind sun begin	-3761 May 20 j 19:07	27°♈50'11	
behind sun end	-3761 May 21 j 01:19	27°♈51'06	
max. Earth dist.	-3761 May 19 j 20:39	27°♈46'46	19.75205 AU
morning rise	-3761 Jun 06 j 16:35	28°♈51'15	
	-3761 Jun 26 j 22:37	0°♉	
retrograde	-3761 Sep 07 j 07:25	2°♉09'18	
opposition	-3761 Nov 20 j 02:39	0°♉07'13	-0°13'40
min. Earth dist.	-3761 Nov 21 j 00:30	0°♉04'50	17.72181 AU
	-3761 Nov 22 j 21:02	30°℞♈	
direct	-3760 Feb 03 j 12:00	28°♈02'49	
	-3760 Apr 12 j 21:03	0°♉	
evening set	-3760 May 08 j 03:36	1°♉24'34	
conjunction	-3760 May 24 j 23:26	2°♉25'35	-0°10'24
minimum elong	-3760 May 24 j 23:27	2°♉25'35	0°10'19
behind sun begin	-3760 May 24 j 18:08	2°♉24'48	
behind sun end	-3760 May 25 j 04:45	2°♉26'22	
max. Earth dist.	-3760 May 23 j 19:36	2°♉21'21	19.69195 AU
morning rise	-3760 Jun 10 j 17:18	3°♉26'21	
retrograde	-3760 Sep 11 j 03:10	6°♉44'50	
opposition	-3760 Nov 23 j 20:38	4°♉42'39	-0°09'25
min. Earth dist.	-3760 Nov 24 j 20:31	4°♉40'03	17.66312 AU
direct	-3759 Feb 07 j 07:47	2°♉37'50	
evening set	-3759 May 13 j 05:32	6°♉00'45	
max. Earth dist.	-3759 May 28 j 20:40	6°♉57'37	19.63473 AU
conjunction	-3759 May 30 j 01:05	7°♉01'57	-0°06'34
minimum elong	-3759 May 30 j 01:05	7°♉01'57	0°06'29
behind sun begin	-3759 May 29 j 18:43	7°♉01'00	
behind sun end	-3759 May 30 j 07:27	7°♉02'54	
morning rise	-3759 Jun 15 j 18:15	8°♉02'52	
retrograde	-3759 Sep 16 j 01:08	11°♉21'45	
opposition	-3759 Nov 28 j 15:11	9°♉19'29	-0°05'06
min. Earth dist.	-3759 Nov 29 j 15:05	9°♉16'52	17.60757 AU
direct	-3758 Feb 12 j 05:58	7°♉14'18	
evening set	-3758 May 18 j 08:03	10°♉38'19	
max. Earth dist.	-3758 Jun 02 j 21:24	11°♉35'08	19.58101 AU
conjunction	-3758 Jun 04 j 03:06	11°♉39'41	-0°02'40
minimum elong	-3758 Jun 04 j 03:05	11°♉39'41	0°02'34
behind sun begin	-3758 Jun 03 j 20:19	11°♉38'41	
behind sun end	-3758 Jun 04 j 09:52	11°♉40'42	
morning rise	-3758 Jun 20 j 19:29	12°♉40'43	
	-3758 Aug 04 j 13:04	15°♉	
retrograde	-3758 Sep 20 j 22:05	16°♉00'00	
	-3758 Nov 08 j 11:20	15°℞♉	
opposition	-3758 Dec 03 j 10:38	13°♉57'39	-0°00'43
min. Earth dist.	-3758 Dec 04 j 12:12	13°♉54'51	17.55608 AU
asc. node	-3757 Feb 01 j 14:49	11°♉58'31	
direct	-3757 Feb 17 j 02:58	11°♉52'08	
	-3757 May 18 j 15:10	15°♉	
evening set	-3757 May 23 j 10:51	15°♉17'12	
max. Earth dist.	-3757 Jun 07 j 23:15	16°♉14'04	19.53174 AU
conjunction	-3757 Jun 09 j 05:23	16°♉18'43	0°01'24
minimum elong	-3757 Jun 09 j 05:22	16°♉18'43	0°01'31
behind sun begin	-3757 Jun 08 j 22:36	16°♉17'42	
behind sun end	-3757 Jun 09 j 12:09	16°♉19'44	
morning rise	-3757 Jun 25 j 21:01	17°♉19'51	
retrograde	-3757 Sep 25 j 20:54	20°♉39'30	
opposition	-3757 Dec 08 j 06:41	18°♉37'06	0°03'41
min. Earth dist.	-3757 Dec 09 j 07:45	18°♉34'22	17.50915 AU
direct	-3756 Feb 22 j 02:29	16°♉31'18	
evening set	-3756 May 27 j 14:17	19°♉57'23	
max. Earth dist.	-3756 Jun 12 j 01:40	20°♉54'18	19.48721 AU
conjunction	-3756 Jun 13 j 08:09	20°♉59'01	0°05'22
minimum elong	-3756 Jun 13 j 08:08	20°♉59'01	0°05'29
behind sun begin	-3756 Jun 13 j 01:37	20°♉58'02	
behind sun end	-3756 Jun 13 j 14:40	21°♉00'00	
morning rise	-3756 Jun 29 j 22:44	22°♉00'14	
retrograde	-3756 Sep 29 j 18:35	25°♉20'14	
opposition	-3756 Dec 12 j 03:36	23°♉17'49	0°08'05
min. Earth dist.	-3756 Dec 13 j 05:59	23°♉14'56	17.46733 AU
direct	-3755 Feb 26 j 00:46	21°♉11'48	
evening set	-3755 Jun 01 j 18:06	24°♉38'50	
max. Earth dist.	-3755 Jun 17 j 04:08	25°♉35'45	19.44813 AU
conjunction	-3755 Jun 18 j 11:07	25°♉40'33	0°09'17
minimum elong	-3755 Jun 18 j 11:07	25°♉40'33	0°09'25
behind sun begin	-3755 Jun 18 j 05:30	25°♉39'42	
behind sun end	-3755 Jun 18 j 16:44	25°♉41'24	
morning rise	-3755 Jul 05 j 00:49	26°♉41'50	
	-3755 Sep 25 j 23:33	0°♊	
retrograde	-3755 Oct 04 j 18:19	0°♊02'10	
	-3755 Oct 13 j 12:07	30°℞♉	
opposition	-3755 Dec 17 j 01:12	27°♉59'48	0°12'27
min. Earth dist.	-3755 Dec 18 j 02:44	27°♉57'00	17.43096 AU
direct	-3754 Mar 03 j 01:47	25°♉53'37	
evening set	-3754 Jun 06 j 21:58	29°♉21'31	
	-3754 Jun 17 j 08:21	0°♊	
max. Earth dist.	-3754 Jun 22 j 07:51	0°♊18'35	19.41441 AU
conjunction	-3754 Jun 23 j 14:14	0°♊23'19	0°13'09
minimum elong	-3754 Jun 23 j 14:14	0°♊23'19	0°13'17
behind sun begin	-3754 Jun 23 j 10:25	0°♊22'44	
behind sun end	-3754 Jun 23 j 18:03	0°♊23'54	
morning rise	-3754 Jul 10 j 02:44	1°♊24'37	

Attention, astronomical year style is used: The year -3754 in astronomical counting style is the year 3755 BCE in historical counting style.

retrograde	-3754 Oct 09 j 16:51	4°♊45'16	
opposition	-3754 Dec 21 j 23:37	2°♊42'59	0°16'45
min. Earth dist.	-3754 Dec 23 j 02:11	2°♊40'04	17.39997 AU
direct	-3753 Mar 08 j 01:26	0°♊36'42	
evening set	-3753 Jun 12 j 02:23	4°♊05'25	
max. Earth dist.	-3753 Jun 27 j 10:29	5°♊02'23	19.38611 AU
conjunction	-3753 Jun 28 j 17:34	5°♊07'15	0°16'58
minimum elong	-3753 Jun 28 j 17:34	5°♊07'15	0°17'06
morning rise	-3753 Jul 15 j 05:07	6°♊08'33	
retrograde	-3753 Oct 14 j 16:57	9°♊29'29	
opposition	-3753 Dec 26 j 22:26	7°♊27'17	0°20'57
min. Earth dist.	-3753 Dec 28 j 00:15	7°♊24'28	17.37422 AU
direct	-3752 Mar 12 j 03:46	5°♊20'56	
evening set	-3752 Jun 16 j 06:55	8°♊50'22	
conjunction	-3752 Jul 02 j 21:13	9°♊52'13	0°20'41
minimum elong	-3752 Jul 02 j 21:13	9°♊52'13	0°20'50
max. Earth dist.	-3752 Jul 01 j 15:11	9°♊47'31	19.36273 AU
morning rise	-3752 Jul 19 j 07:23	10°♊53'30	
retrograde	-3752 Oct 18 j 16:19	14°♊14'40	
opposition	-3752 Dec 30 j 22:16	12°♊12'35	0°25'02
min. Earth dist.	-3751 Jan 01 j 00:50	12°♊09'41	17.35328 AU
direct	-3751 Mar 17 j 05:17	10°♊06'11	
evening set	-3751 Jun 21 j 11:35	13°♊36'13	
max. Earth dist.	-3751 Jul 06 j 17:48	14°♊33'12	19.34415 AU
conjunction	-3751 Jul 08 j 00:35	14°♊38'02	0°24'16
minimum elong	-3751 Jul 08 j 00:35	14°♊38'02	0°24'25
morning rise	-3751 Jul 24 j 09:39	15°♊39'17	
retrograde	-3751 Oct 23 j 16:27	19°♊00'39	
opposition	-3750 Jan 04 j 22:35	16°♊58'38	0°28'58
min. Earth dist.	-3750 Jan 06 j 00:18	16°♊55'50	17.33707 AU
direct	-3750 Mar 22 j 09:17	14°♊52'13	
evening set	-3750 Jun 26 j 16:06	18°♊22'43	
max. Earth dist.	-3750 Jul 11 j 22:53	19°♊19'54	19.33015 AU
conjunction	-3750 Jul 13 j 04:06	19°♊24'29	0°27'42
minimum elong	-3750 Jul 13 j 04:06	19°♊24'29	0°27'51
morning rise	-3750 Jul 29 j 11:45	20°♊25'40	
retrograde	-3750 Oct 28 j 15:57	23°♊47'09	
opposition	-3749 Jan 09 j 23:27	21°♊45'14	0°32'42
min. Earth dist.	-3749 Jan 11 j 01:22	21°♊42'25	17.32534 AU
direct	-3749 Mar 27 j 12:29	19°♊38'48	
evening set	-3749 Jul 01 j 20:39	23°♊09'39	
max. Earth dist.	-3749 Jul 17 j 01:27	24°♊06'39	19.32073 AU
conjunction	-3749 Jul 18 j 07:17	24°♊11'20	0°30'57
minimum elong	-3749 Jul 18 j 07:17	24°♊11'20	0°31'05
morning rise	-3749 Aug 03 j 13:49	25°♊12'26	
retrograde	-3749 Nov 02 j 16:04	28°♊34'00	
opposition	-3748 Jan 15 j 00:44	26°♊32'08	0°36'12
min. Earth dist.	-3748 Jan 16 j 01:52	26°♊29'24	17.31824 AU
direct	-3748 Mar 31 j 17:04	24°♊25'41	
evening set	-3748 Jul 06 j 00:47	27°♊56'45	
max. Earth dist.	-3748 Jul 21 j 06:25	28°♊53'57	19.31590 AU
conjunction	-3748 Jul 22 j 10:18	28°♊58'21	0°33'58
minimum elong	-3748 Jul 22 j 10:18	28°♊58'21	0°34'07
morning rise	-3748 Aug 07 j 15:23	29°♊59'20	
	-3748 Aug 07 j 19:45	0°♋	
retrograde	-3748 Nov 06 j 16:02	3°♋20'53	
opposition	-3747 Jan 19 j 02:28	1°♋19'06	0°39'27
min. Earth dist.	-3747 Jan 20 j 03:01	1°♋16'26	17.31572 AU
	-3747 Feb 21 j 00:18	30°℞♊	
direct	-3747 Apr 05 j 21:24	29°♊12'40	
	-3747 May 18 j 16:36	0°♋	
evening set	-3747 Jul 11 j 04:42	2°♋43'48	
max. Earth dist.	-3747 Jul 26 j 08:58	3°♋40'52	19.31591 AU
conjunction	-3747 Jul 27 j 12:48	3°♋45'16	0°36'45
minimum elong	-3747 Jul 27 j 12:48	3°♋45'15	0°36'55
morning rise	-3747 Aug 12 j 16:42	4°♋46'07	
retrograde	-3747 Nov 11 j 15:57	8°♋07'38	
opposition	-3746 Jan 24 j 04:27	6°♋05'52	0°42'25
min. Earth dist.	-3746 Jan 25 j 04:06	6°♋03'19	17.31836 AU
direct	-3746 Apr 11 j 01:01	3°♋59'27	
evening set	-3746 Jul 16 j 07:49	7°♋30'32	
conjunction	-3746 Aug 01 j 14:45	8°♋31'51	0°39'17
minimum elong	-3746 Aug 01 j 14:45	8°♋31'51	0°39'26
max. Earth dist.	-3746 Jul 31 j 13:13	8°♋27'49	19.32117 AU
morning rise	-3746 Aug 17 j 17:19	9°♋32'33	
retrograde	-3746 Nov 16 j 16:34	12°♋53'57	
opposition	-3745 Jan 29 j 06:36	10°♋52'14	0°45'05
min. Earth dist.	-3745 Jan 30 j 04:48	10°♋49'50	17.32616 AU
direct	-3745 Apr 16 j 05:41	8°♋45'52	
evening set	-3745 Jul 21 j 10:38	12°♋16'46	
conjunction	-3745 Aug 06 j 16:10	13°♋17'54	0°41'32
minimum elong	-3745 Aug 06 j 16:10	13°♋17'54	0°41'42
max. Earth dist.	-3745 Aug 05 j 15:31	13°♋14'00	19.33177 AU
morning rise	-3745 Aug 22 j 17:32	14°♋18'25	
retrograde	-3745 Nov 21 j 15:35	17°♋39'40	
opposition	-3744 Feb 03 j 08:47	15°♋37'59	0°47'26
min. Earth dist.	-3744 Feb 04 j 06:04	15°♋35'42	17.33970 AU
direct	-3744 Apr 20 j 08:16	13°♋31'42	
evening set	-3744 Jul 25 j 12:43	17°♋02'18	
conjunction	-3744 Aug 10 j 16:59	18°♋03'14	0°43'30
minimum elong	-3744 Aug 10 j 16:59	18°♋03'14	0°43'38
max. Earth dist.	-3744 Aug 09 j 18:47	17°♋59'43	19.34829 AU
morning rise	-3744 Aug 26 j 17:05	19°♋03'34	
retrograde	-3744 Nov 25 j 16:25	22°♋24'37	
opposition	-3743 Feb 07 j 11:11	20°♋22'59	0°49'28
min. Earth dist.	-3743 Feb 08 j 06:06	20°♋20'57	17.35913 AU
direct	-3743 Apr 25 j 13:32	18°♋16'51	
evening set	-3743 Jul 30 j 14:03	21°♋47'00	
conjunction	-3743 Aug 15 j 16:58	22°♋47'43	0°45'10
minimum elong	-3743 Aug 15 j 16:58	22°♋47'43	0°45'18
max. Earth dist.	-3743 Aug 14 j 20:38	22°♋44'30	19.37081 AU
morning rise	-3743 Aug 31 j 15:52	23°♋47'51	
retrograde	-3743 Nov 30 j 14:08	27°♋08'41	
opposition	-3742 Feb 12 j 13:39	25°♋07'07	0°51'08
min. Earth dist.	-3742 Feb 13 j 07:25	25°♋05'13	17.38484 AU
direct	-3742 Apr 30 j 15:56	23°♋01'11	
evening set	-3742 Aug 04 j 14:45	26°♋30'49	
conjunction	-3742 Aug 20 j 16:24	27°♋31'18	0°46'31
minimum elong	-3742 Aug 20 j 16:24	27°♋31'18	0°46'39
max. Earth dist.	-3742 Aug 19 j 22:20	27°♋28'27	19.39966 AU
morning rise	-3742 Sep 05 j 14:12	28°♋31'12	
	-3742 Oct 01 j 05:28	0°♌	
retrograde	-3742 Dec 05 j 14:12	1°♌51'46	
	-3741 Feb 13 j 21:05	30°℞♋	
opposition	-3741 Feb 17 j 15:45	29°♋50'19	0°52'28
min. Earth dist.	-3741 Feb 18 j 06:40	29°♋48'44	17.41658 AU
direct	-3741 May 05 j 21:08	27°♋44'39	
	-3741 Jul 19 j 15:38	0°♌	
evening set	-3741 Aug 09 j 14:44	1°♌13'41	
conjunction	-3741 Aug 25 j 15:12	2°♌13'54	0°47'33
minimum elong	-3741 Aug 25 j 15:12	2°♌13'54	0°47'41

Attention, astronomical year style is used: The year -3741 in astronomical counting style is the year 3742 BCE in historical counting style.

max. Earth dist.	-3741 Aug 24 j 23:33	2°♌11'26	19.43435 AU
morning rise	-3741 Sep 10 j 11:51	3°♌13'35	
retrograde	-3741 Dec 10 j 11:03	6°♌33'52	
opposition	-3740 Feb 22 j 18:07	4°♌32'34	0°53'27
min. Earth dist.	-3740 Feb 23 j 07:56	4°♌31'06	17.45406 AU
direct	-3740 May 09 j 23:08	2°♌27'13	
evening set	-3740 Aug 13 j 13:57	5°♌55'32	
conjunction	-3740 Aug 29 j 13:07	6°♌55'29	0°48'17
minimum elong	-3740 Aug 29 j 13:07	6°♌55'29	0°48'25
max. Earth dist.	-3740 Aug 28 j 23:27	6°♌53'20	19.47455 AU
morning rise	-3740 Sep 14 j 08:50	7°♌54'55	
retrograde	-3740 Dec 14 j 10:27	11°♌14'54	
opposition	-3739 Feb 26 j 20:13	9°♌13'45	0°54'04
min. Earth dist.	-3739 Feb 27 j 06:55	9°♌12'37	17.49660 AU
direct	-3739 May 15 j 03:56	7°♌08'45	
evening set	-3739 Aug 18 j 12:22	10°♌36'16	
conjunction	-3739 Sep 03 j 10:28	11°♌35'57	0°48'41
minimum elong	-3739 Sep 03 j 10:28	11°♌35'57	0°48'48
max. Earth dist.	-3739 Sep 02 j 23:41	11°♌34'15	19.51940 AU
morning rise	-3739 Sep 19 j 05:07	12°♌35'08	
	-3739 Nov 04 j 07:27	15°♌	
retrograde	-3739 Dec 19 j 06:37	15°♌54'46	
	-3738 Feb 04 j 06:56	15°℞♌	
opposition	-3738 Mar 03 j 22:14	13°♌53'47	0°54'19
min. Earth dist.	-3738 Mar 04 j 07:56	13°♌52'45	17.54359 AU
direct	-3738 May 20 j 05:06	11°♌49'10	
	-3738 Aug 19 j 02:08	15°♌	
evening set	-3738 Aug 23 j 10:00	15°♌15'47	
conjunction	-3738 Sep 08 j 06:55	16°♌15'10	0°48'46
minimum elong	-3738 Sep 08 j 06:55	16°♌15'10	0°48'53
max. Earth dist.	-3738 Sep 07 j 21:40	16°♌13'43	19.56837 AU
morning rise	-3738 Sep 24 j 00:51	17°♌14'07	
retrograde	-3738 Dec 24 j 05:19	20°♌33'22	
opposition	-3737 Mar 08 j 23:49	18°♌32'32	0°54'13
min. Earth dist.	-3737 Mar 09 j 06:29	18°♌31'50	17.59419 AU
direct	-3737 May 25 j 08:10	16°♌28'17	
evening set	-3737 Aug 28 j 06:47	19°♌53'56	
conjunction	-3737 Sep 13 j 02:46	20°♌53'02	0°48'31
minimum elong	-3737 Sep 13 j 02:46	20°♌53'02	0°48'37
max. Earth dist.	-3737 Sep 12 j 20:31	20°♌52'04	19.62047 AU
morning rise	-3737 Sep 28 j 19:42	21°♌51'42	
retrograde	-3737 Dec 29 j 00:52	25°♌10'32	
opposition	-3736 Mar 13 j 01:15	23°♌09'51	0°53'46
min. Earth dist.	-3736 Mar 13 j 06:53	23°♌09'16	17.64767 AU
direct	-3736 May 29 j 08:47	21°♌06'00	
evening set	-3736 Sep 01 j 02:51	24°♌30'36	
conjunction	-3736 Sep 16 j 21:41	25°♌29'23	0°47'58
minimum elong	-3736 Sep 16 j 21:41	25°♌29'23	0°48'03
max. Earth dist.	-3736 Sep 16 j 16:39	25°♌28'36	19.67529 AU
morning rise	-3736 Oct 02 j 14:03	26°♌27'49	
retrograde	-3735 Jan 01 j 22:23	29°♌46'11	
opposition	-3735 Mar 18 j 02:12	27°♌45'37	0°52'57
min. Earth dist.	-3735 Mar 18 j 04:52	27°♌45'21	17.70359 AU
direct	-3735 Jun 03 j 09:56	25°♌42'08	
evening set	-3735 Sep 05 j 21:42	29°♌05'36	
	-3735 Sep 20 j 13:29	0°♍	
conjunction	-3735 Sep 21 j 15:49	0°♍04'06	0°47'06
minimum elong	-3735 Sep 21 j 15:49	0°♍04'06	0°47'11
max. Earth dist.	-3735 Sep 21 j 13:57	0°♍03'49	19.73216 AU
morning rise	-3735 Oct 07 j 07:24	1°♍02'16	
retrograde	-3734 Jan 06 j 17:11	4°♍20'09	
opposition	-3734 Mar 23 j 02:45	2°♍19'41	0°51'49
min. Earth dist.	-3734 Mar 23 j 04:11	2°♍19'33	17.76128 AU
direct	-3734 Jun 08 j 09:43	0°♍16'35	
evening set	-3734 Sep 10 j 15:54	3°♍38'51	
conjunction	-3734 Sep 26 j 09:02	4°♍37'03	0°45'57
minimum elong	-3734 Sep 26 j 09:02	4°♍37'03	0°46'00
max. Earth dist.	-3734 Sep 26 j 08:08	4°♍36'55	19.79071 AU
morning rise	-3734 Oct 12 j 00:15	5°♍34'58	
retrograde	-3733 Jan 11 j 13:14	8°♍52'20	
opposition	-3733 Mar 28 j 02:25	6°♍51'57	0°50'21
min. Earth dist.	-3733 Mar 28 j 01:10	6°♍52'04	17.82055 AU
direct	-3733 Jun 13 j 08:46	4°♍49'11	
evening set	-3733 Sep 15 j 08:56	8°♍10'13	
conjunction	-3733 Oct 01 j 01:30	9°♍08'08	0°44'31
minimum elong	-3733 Oct 01 j 01:31	9°♍08'08	0°44'35
max. Earth dist.	-3733 Oct 01 j 03:50	9°♍08'29	19.85067 AU
morning rise	-3733 Oct 16 j 16:05	10°♍05'46	
retrograde	-3732 Jan 16 j 06:51	13°♍22'36	
opposition	-3732 Apr 01 j 01:44	11°♍22'16	0°48'35
min. Earth dist.	-3732 Mar 31 j 22:55	11°♍22'34	17.88111 AU
direct	-3732 Jun 17 j 07:32	9°♍19'52	
evening set	-3732 Sep 19 j 00:59	12°♍39'36	
conjunction	-3732 Oct 04 j 16:43	13°♍37'13	0°42'49
minimum elong	-3732 Oct 04 j 16:43	13°♍37'13	0°42'52
max. Earth dist.	-3732 Oct 04 j 20:15	13°♍37'45	19.91201 AU
morning rise	-3732 Oct 20 j 07:07	14°♍34'36	
retrograde	-3731 Jan 20 j 01:43	17°♍50'53	
opposition	-3731 Apr 06 j 00:18	15°♍50'35	0°46'32
min. Earth dist.	-3731 Apr 05 j 18:52	15°♍51'09	17.94322 AU
direct	-3731 Jun 22 j 04:54	13°♍48'32	
evening set	-3731 Sep 23 j 15:57	17°♍06'57	
conjunction	-3731 Oct 09 j 07:18	18°♍04'16	0°40'52
minimum elong	-3731 Oct 09 j 07:18	18°♍04'16	0°40'54
max. Earth dist.	-3731 Oct 09 j 14:13	18°♍05'20	19.97484 AU
morning rise	-3731 Oct 24 j 21:15	19°♍01'25	
retrograde	-3730 Jan 24 j 18:09	22°♍17'07	
opposition	-3730 Apr 10 j 22:00	20°♍16'52	0°44'14
min. Earth dist.	-3730 Apr 10 j 14:36	20°♍17'37	18.00679 AU
direct	-3730 Jun 27 j 02:12	18°♍15'11	
evening set	-3730 Sep 28 j 06:07	21°♍32'17	
conjunction	-3730 Oct 13 j 20:48	22°♍29'19	0°38'42
minimum elong	-3730 Oct 13 j 20:48	22°♍29'19	0°38'44
max. Earth dist.	-3730 Oct 14 j 04:57	22°♍30'34	20.03922 AU
morning rise	-3730 Oct 29 j 10:43	23°♍26'13	
retrograde	-3729 Jan 29 j 11:39	26°♍41'22	
opposition	-3729 Apr 15 j 19:02	24°♍41'09	0°41'41
min. Earth dist.	-3729 Apr 15 j 09:14	24°♍42'09	18.07201 AU
direct	-3729 Jul 01 j 21:44	22°♍39'50	
evening set	-3729 Oct 02 j 19:09	25°♍55'39	
conjunction	-3729 Oct 18 j 09:34	26°♍52'24	0°36'19
minimum elong	-3729 Oct 18 j 09:34	26°♍52'24	0°36'19
max. Earth dist.	-3729 Oct 18 j 21:02	26°♍54'09	20.10512 AU
morning rise	-3729 Nov 02 j 23:11	27°♍49'05	
	-3729 Dec 15 j 01:20	0°♎	
retrograde	-3728 Feb 03 j 02:46	1°♎03'40	
	-3728 Mar 26 j 16:44	30°℞♍	
opposition	-3728 Apr 19 j 15:20	29°♍03'33	0°38'55
min. Earth dist.	-3728 Apr 19 j 03:13	29°♍04'47	18.13849 AU
direct	-3728 Jul 05 j 17:40	27°♍02'40	
	-3728 Oct 01 j 10:51	0°♎	
evening set	-3728 Oct 06 j 07:34	0°♎17'10	

Attention, astronomical year style is used: The year -3728 in astronomical counting style is the year 3729 BCE in historical counting style.

conjunction	-3728 Oct 21 j 21:29	1°♎13'39	0°33'45
minimum elong	-3728 Oct 21 j 21:29	1°♎13'40	0°33'46
max. Earth dist.	-3728 Oct 22 j 10:11	1°♎15'35	20.17221 AU
morning rise	-3728 Nov 06 j 11:15	2°♎10'07	
retrograde	-3727 Feb 06 j 18:55	5°♎24'11	
opposition	-3727 Apr 24 j 10:55	3°♎24'09	0°35'57
min. Earth dist.	-3727 Apr 23 j 20:51	3°♎25'35	18.20612 AU
direct	-3727 Jul 10 j 11:05	1°♎23'41	
evening set	-3727 Oct 10 j 18:54	4°♎36'55	
conjunction	-3727 Oct 26 j 08:45	5°♎33'10	0°31'00
minimum elong	-3727 Oct 26 j 08:45	5°♎33'10	0°30'59
max. Earth dist.	-3727 Oct 27 j 00:27	5°♎35'33	20.24008 AU
morning rise	-3727 Nov 10 j 22:26	6°♎29'25	
retrograde	-3726 Feb 11 j 09:01	9°♎42'57	
opposition	-3726 Apr 29 j 05:42	7°♎43'03	0°32'48
min. Earth dist.	-3726 Apr 28 j 13:21	7°♎44'43	18.27396 AU
direct	-3726 Jul 15 j 05:07	5°♎43'02	
evening set	-3726 Oct 15 j 05:45	8°♎55'02	
conjunction	-3726 Oct 30 j 19:17	9°♎51'01	0°28'06
minimum elong	-3726 Oct 30 j 19:17	9°♎51'01	0°28'05
max. Earth dist.	-3726 Oct 31 j 11:59	9°♎53'32	20.30782 AU
morning rise	-3726 Nov 15 j 09:14	10°♎47'04	
retrograde	-3725 Feb 15 j 23:13	14°♎00'06	
opposition	-3725 May 03 j 23:46	12°♎00'19	0°29'29
min. Earth dist.	-3725 May 03 j 06:10	12°♎02'06	18.34152 AU
direct	-3725 Jul 19 j 20:35	10°♎00'44	
evening set	-3725 Oct 19 j 15:46	13°♎11'31	
conjunction	-3725 Nov 04 j 05:21	14°♎07'17	0°25'04
minimum elong	-3725 Nov 04 j 05:21	14°♎07'17	0°25'02
max. Earth dist.	-3725 Nov 05 j 00:38	14°♎10'11	20.37493 AU
morning rise	-3725 Nov 19 j 19:21	15°♎03'08	
retrograde	-3724 Feb 20 j 12:51	18°♎15'41	
opposition	-3724 May 07 j 17:12	16°♎16'01	0°26'01
min. Earth dist.	-3724 May 06 j 21:27	16°♎18'01	18.40794 AU
direct	-3724 Jul 23 j 12:57	14°♎16'51	
evening set	-3724 Oct 23 j 01:13	17°♎26'26	
conjunction	-3724 Nov 07 j 14:38	18°♎21'59	0°21'54
minimum elong	-3724 Nov 07 j 14:38	18°♎21'59	0°21'51
max. Earth dist.	-3724 Nov 08 j 10:46	18°♎24'59	20.44052 AU
morning rise	-3724 Nov 23 j 05:03	19°♎17'40	
retrograde	-3723 Feb 24 j 01:29	22°♎29'44	
opposition	-3723 May 12 j 10:05	20°♎30'11	0°22'26
min. Earth dist.	-3723 May 11 j 13:37	20°♎32'14	18.47267 AU
direct	-3723 Jul 28 j 02:21	18°♎31'23	
evening set	-3723 Oct 27 j 10:04	21°♎39'49	
conjunction	-3723 Nov 11 j 23:41	22°♎35'09	0°18'38
minimum elong	-3723 Nov 11 j 23:42	22°♎35'09	0°18'35
max. Earth dist.	-3723 Nov 12 j 21:52	22°♎38'28	20.50405 AU
morning rise	-3723 Nov 27 j 14:20	23°♎30'40	
retrograde	-3722 Feb 28 j 14:31	26°♎42'15	
min. Earth dist.	-3722 May 16 j 03:35	24°♎45'02	18.53483 AU
opposition	-3722 May 17 j 01:53	24°♎42'47	0°18'45
direct	-3722 Aug 01 j 17:15	22°♎44'21	
evening set	-3722 Oct 31 j 18:30	25°♎51'40	
conjunction	-3722 Nov 16 j 08:06	26°♎46'49	0°15'17
minimum elong	-3722 Nov 16 j 08:06	26°♎46'49	0°15'13
behind sun begin	-3722 Nov 16 j 05:41	26°♎46'28	
behind sun end	-3722 Nov 16 j 10:31	26°♎47'10	
max. Earth dist.	-3722 Nov 17 j 06:44	26°♎50'10	20.56467 AU
morning rise	-3722 Dec 01 j 23:16	27°♎42'10	
	-3721 Jan 17 j 12:38	0°♏	

retrograde	-3721 Mar 05 j 01:47	0°♏53'18	
	-3721 Apr 22 j 15:58	30°℞♎	
opposition	-3721 May 21 j 17:17	28°♎53'53	0°14'59
min. Earth dist.	-3721 May 20 j 18:47	28°♎56'08	18.59398 AU
direct	-3721 Aug 06 j 05:01	26°♎55'45	
	-3721 Nov 04 j 12:30	0°♏	
evening set	-3721 Nov 05 j 02:06	0°♏01'58	
conjunction	-3721 Nov 20 j 16:02	0°♏56'56	0°11'52
minimum elong	-3721 Nov 20 j 16:02	0°♏56'56	0°11'49
behind sun begin	-3721 Nov 20 j 11:23	0°♏56'16	
behind sun end	-3721 Nov 20 j 20:41	0°♏57'36	
max. Earth dist.	-3721 Nov 21 j 16:18	1°♏00'31	20.62209 AU
morning rise	-3721 Dec 06 j 07:32	1°♏52'09	
retrograde	-3720 Mar 08 j 14:01	5°♏02'48	
min. Earth dist.	-3720 May 24 j 07:31	3°♏05'51	18.64958 AU
opposition	-3720 May 25 j 07:50	3°♏03'25	0°11'10
direct	-3720 Aug 09 j 18:27	1°♏05'34	
evening set	-3720 Nov 08 j 09:21	4°♏10'42	
conjunction	-3720 Nov 23 j 23:27	5°♏05'30	0°08'26
minimum elong	-3720 Nov 23 j 23:27	5°♏05'30	0°08'21
behind sun begin	-3720 Nov 23 j 17:40	5°♏04'41	
behind sun end	-3720 Nov 24 j 05:14	5°♏06'20	
max. Earth dist.	-3720 Nov 25 j 00:04	5°♏09'08	20.67589 AU
morning rise	-3720 Dec 09 j 15:38	6°♏00'36	
retrograde	-3719 Mar 13 j 00:09	9°♏10'48	
opposition	-3719 May 29 j 21:41	7°♏11'24	0°07'19
min. Earth dist.	-3719 May 28 j 21:29	7°♏13'49	18.70174 AU
direct	-3719 Aug 14 j 05:02	5°♏13'46	
evening set	-3719 Nov 12 j 15:52	8°♏17'53	
conjunction	-3719 Nov 28 j 06:29	9°♏12'33	0°04'58
minimum elong	-3719 Nov 28 j 06:28	9°♏12'32	0°04'53
behind sun begin	-3719 Nov 28 j 00:05	9°♏11'38	
behind sun end	-3719 Nov 28 j 12:51	9°♏13'27	
max. Earth dist.	-3719 Nov 29 j 08:29	9°♏16'22	20.72633 AU
morning rise	-3719 Dec 13 j 23:10	10°♏07'31	
retrograde	-3718 Mar 17 j 11:23	13°♏17'16	
min. Earth dist.	-3718 Jun 02 j 08:39	11°♏20'26	18.75044 AU
opposition	-3718 Jun 03 j 10:36	11°♏17'50	0°03'27
direct	-3718 Aug 18 j 16:43	9°♏20'25	
evening set	-3718 Nov 16 j 22:00	12°♏23'33	
conjunction	-3718 Dec 02 j 12:51	13°♏18'05	0°01'28
minimum elong	-3718 Dec 02 j 12:51	13°♏18'05	0°01'21
behind sun begin	-3718 Dec 02 j 06:19	13°♏17'09	
behind sun end	-3718 Dec 02 j 19:24	13°♏19'01	
max. Earth dist.	-3718 Dec 03 j 15:17	13°♏21'57	20.77337 AU
morning rise	-3718 Dec 18 j 06:16	14°♏12'58	
	-3717 Jan 01 j 09:43	15°♏	
retrograde	-3717 Mar 21 j 20:24	17°♏22'18	
desc. node	-3717 May 01 j 13:29	16°♏44'25	
opposition	-3717 Jun 07 j 22:55	15°♏22'50	-0°00'24
min. Earth dist.	-3717 Jun 06 j 21:10	15°♏25'24	18.79612 AU
	-3717 Jun 17 j 12:05	15°℞♏	
direct	-3717 Aug 23 j 01:58	13°♏25'35	
	-3717 Oct 24 j 09:03	15°♏	
evening set	-3717 Nov 21 j 03:36	16°♏27'50	
conjunction	-3717 Dec 06 j 19:01	17°♏22'15	-0°02'07
minimum elong	-3717 Dec 06 j 19:01	17°♏22'15	0°02'13
behind sun begin	-3717 Dec 06 j 12:29	17°♏21'19	
behind sun end	-3717 Dec 07 j 01:34	17°♏23'10	
max. Earth dist.	-3717 Dec 07 j 22:49	17°♏26'18	20.81766 AU
morning rise	-3717 Dec 22 j 13:01	18°♏17'02	
retrograde	-3716 Mar 25 j 06:57	21°♏26'00	

Attention, astronomical year style is used: The year -3716 in astronomical counting style is the year 3717 BCE in historical counting style.

min. Earth dist.	-3716 Jun 10 j 06:52	19°♏29'15	18.83906 AU
opposition	-3716 Jun 11 j 10:26	19°♏26'30	-0°04'13
direct	-3716 Aug 26 j 12:00	17°♏29'26	
evening set	-3716 Nov 24 j 08:54	20°♏30'52	
conjunction	-3716 Dec 10 j 00:44	21°♏25'11	-0°05'33
minimum elong	-3716 Dec 10 j 00:43	21°♏25'11	0°05'40
behind sun begin	-3716 Dec 09 j 18:26	21°♏24'17	
behind sun end	-3716 Dec 10 j 07:01	21°♏26'04	
max. Earth dist.	-3716 Dec 11 j 04:55	21°♏29'17	20.85920 AU
morning rise	-3716 Dec 25 j 19:33	22°♏19'55	
retrograde	-3715 Mar 29 j 15:21	25°♏28'33	
opposition	-3715 Jun 15 j 21:27	23°♏29'02	-0°07'59
min. Earth dist.	-3715 Jun 14 j 18:16	23°♏31'45	18.87937 AU
direct	-3715 Aug 30 j 19:35	21°♏32'09	
evening set	-3715 Nov 28 j 13:53	24°♏32'51	
conjunction	-3715 Dec 14 j 06:24	25°♏27'05	-0°08'55
minimum elong	-3715 Dec 14 j 06:24	25°♏27'05	0°09'03
behind sun begin	-3715 Dec 14 j 00:47	25°♏26'17	
behind sun end	-3715 Dec 14 j 12:00	25°♏27'52	
max. Earth dist.	-3715 Dec 15 j 11:38	25°♏31'19	20.89816 AU
morning rise	-3715 Dec 30 j 01:54	26°♏21'45	
retrograde	-3714 Apr 03 j 01:41	29°♏30'05	
min. Earth dist.	-3714 Jun 19 j 02:48	27°♏33'28	18.91690 AU
opposition	-3714 Jun 20 j 07:30	27°♏30'36	-0°11'43
direct	-3714 Sep 04 j 04:14	25°♏33'54	
evening set	-3714 Dec 02 j 18:43	28°♏33'57	
conjunction	-3714 Dec 18 j 11:44	29°♏28'07	-0°12'15
minimum elong	-3714 Dec 18 j 11:44	29°♏28'07	0°12'21
behind sun begin	-3714 Dec 18 j 07:21	29°♏27'30	
behind sun end	-3714 Dec 18 j 16:07	29°♏28'44	
max. Earth dist.	-3714 Dec 19 j 17:09	29°♏32'23	20.93416 AU
	-3714 Dec 27 j 16:20	0°♐	
morning rise	-3713 Jan 03 j 08:08	0°♐22'46	
retrograde	-3713 Apr 07 j 09:31	3°♐30'51	
opposition	-3713 Jun 24 j 17:22	1°♐31'24	-0°15'22
min. Earth dist.	-3713 Jun 23 j 13:22	1°♐34'12	18.95145 AU
	-3713 Aug 07 j 09:16	30°℞♏	
direct	-3713 Sep 08 j 10:10	29°♏34'55	
	-3713 Oct 09 j 18:52	0°♐	
evening set	-3713 Dec 06 j 23:08	2°♐34'22	
conjunction	-3713 Dec 22 j 16:57	3°♐28'29	-0°15'30
minimum elong	-3713 Dec 22 j 16:57	3°♐28'29	0°15'38
behind sun begin	-3713 Dec 22 j 15:14	3°♐28'15	
behind sun end	-3713 Dec 22 j 18:40	3°♐28'44	
max. Earth dist.	-3713 Dec 23 j 23:10	3°♐32'51	20.96713 AU
morning rise	-3712 Jan 07 j 14:07	4°♐23'07	
retrograde	-3712 Apr 10 j 20:03	7°♐31'00	
min. Earth dist.	-3712 Jun 26 j 21:23	5°♐34'31	18.98266 AU
opposition	-3712 Jun 28 j 02:35	5°♐31'35	-0°18'56
direct	-3712 Sep 11 j 18:04	3°♐35'17	
evening set	-3712 Dec 10 j 03:47	6°♐34'14	
conjunction	-3712 Dec 25 j 22:12	7°♐28'20	-0°18'41
minimum elong	-3712 Dec 25 j 22:12	7°♐28'20	0°18'49
max. Earth dist.	-3712 Dec 27 j 04:16	7°♐32'40	20.99644 AU
morning rise	-3711 Jan 10 j 20:20	8°♐22'58	
retrograde	-3711 Apr 15 j 03:41	11°♐30'41	
min. Earth dist.	-3711 Jul 01 j 07:24	9°♐34'07	19.01008 AU
opposition	-3711 Jul 02 j 11:23	9°♐31'19	-0°22'24
direct	-3711 Sep 15 j 22:44	7°♐35'10	
evening set	-3711 Dec 14 j 08:20	10°♐33'42	
conjunction	-3711 Dec 30 j 03:38	11°♐27'48	-0°21'47
minimum elong	-3711 Dec 30 j 03:38	11°♐27'48	0°21'55
max. Earth dist.	-3711 Dec 31 j 09:54	11°♐32'09	21.02178 AU
morning rise	-3710 Jan 15 j 02:35	12°♐22'26	
retrograde	-3710 Apr 19 j 13:48	15°♐30'01	
opposition	-3710 Jul 06 j 19:41	13°♐30'42	-0°25'45
min. Earth dist.	-3710 Jul 05 j 15:02	13°♐33'34	19.03314 AU
direct	-3710 Sep 20 j 06:18	11°♐34'41	
evening set	-3710 Dec 18 j 12:58	14°♐32'52	
conjunction	-3709 Jan 03 j 08:55	15°♐26'58	-0°24'46
minimum elong	-3709 Jan 03 j 08:55	15°♐26'58	0°24'55
max. Earth dist.	-3709 Jan 04 j 14:35	15°♐31'13	21.04236 AU
morning rise	-3709 Jan 19 j 08:50	16°♐21'38	
retrograde	-3709 Apr 23 j 21:46	19°♐29'08	
min. Earth dist.	-3709 Jul 10 j 00:47	17°♐32'32	19.05130 AU
opposition	-3709 Jul 11 j 03:50	17°♐29'49	-0°28'59
direct	-3709 Sep 24 j 10:35	15°♐33'54	
evening set	-3709 Dec 22 j 17:42	18°♐31'47	
conjunction	-3708 Jan 07 j 14:36	19°♐25'55	-0°27'37
minimum elong	-3708 Jan 07 j 14:36	19°♐25'55	0°27'46
max. Earth dist.	-3708 Jan 08 j 19:57	19°♐30'07	21.05796 AU
morning rise	-3708 Jan 23 j 15:24	20°♐20'37	
retrograde	-3708 Apr 27 j 07:14	23°♐28'02	
min. Earth dist.	-3708 Jul 13 j 08:10	21°♐31'28	19.06415 AU
opposition	-3708 Jul 14 j 11:30	21°♐28'44	-0°32'04
direct	-3708 Sep 27 j 17:45	19°♐32'50	
evening set	-3708 Dec 25 j 22:39	22°♐30'30	
conjunction	-3707 Jan 10 j 20:22	23°♐24'41	-0°30'21
minimum elong	-3707 Jan 10 j 20:22	23°♐24'40	0°30'30
max. Earth dist.	-3707 Jan 12 j 00:37	23°♐28'43	21.06793 AU
morning rise	-3707 Jan 26 j 22:13	24°♐19'26	
retrograde	-3707 May 01 j 15:19	27°♐26'47	
opposition	-3707 Jul 18 j 19:02	25°♐27'25	-0°35'00
min. Earth dist.	-3707 Jul 17 j 17:37	25°♐29'59	19.07130 AU
direct	-3707 Oct 01 j 22:18	23°♐31'31	
evening set	-3707 Dec 30 j 03:39	26°♐29'01	
conjunction	-3706 Jan 15 j 02:22	27°♐23'15	-0°32'55
minimum elong	-3706 Jan 15 j 02:22	27°♐23'15	0°33'03
max. Earth dist.	-3706 Jan 16 j 05:55	27°♐27'11	21.07232 AU
morning rise	-3706 Jan 31 j 05:08	28°♐18'03	
	-3706 Mar 05 j 19:22	0°♑	
retrograde	-3706 May 06 j 00:09	1°♑25'22	
	-3706 Jul 08 j 18:19	30°℞♐	
min. Earth dist.	-3706 Jul 22 j 00:31	29°♐28'29	19.07286 AU
opposition	-3706 Jul 23 j 01:57	29°♐25'55	-0°37'45
direct	-3706 Oct 06 j 04:35	27°♐29'57	
	-3706 Dec 26 j 00:57	0°♑	
evening set	-3705 Jan 03 j 08:50	0°♑27'20	
conjunction	-3705 Jan 19 j 08:24	1°♑21'38	-0°35'20
minimum elong	-3705 Jan 19 j 08:24	1°♑21'38	0°35'29
max. Earth dist.	-3705 Jan 20 j 10:47	1°♑25'24	21.07120 AU
morning rise	-3705 Feb 04 j 12:13	2°♑16'32	
retrograde	-3705 May 10 j 07:27	5°♑23'49	
min. Earth dist.	-3705 Jul 26 j 09:19	3°♑26'38	19.06925 AU
opposition	-3705 Jul 27 j 08:51	3°♑24'15	-0°40'19
direct	-3705 Oct 10 j 09:26	1°♑28'11	
evening set	-3704 Jan 07 j 13:58	4°♑25'30	
conjunction	-3704 Jan 23 j 14:36	5°♑19'54	-0°37'34
minimum elong	-3704 Jan 23 j 14:36	5°♑19'54	0°37'42
max. Earth dist.	-3704 Jan 24 j 16:21	5°♑23'34	21.06531 AU
morning rise	-3704 Feb 08 j 19:23	6°♑14'53	
retrograde	-3704 May 13 j 16:23	9°♑22'11	

Attention, astronomical year style is used: The year -3704 in astronomical counting style is the year 3705 BCE in historical counting style.

opposition	-3704 Jul 30 j 15:19	7°♓22'30	-0°42'42
min. Earth dist.	-3704 Jul 29 j 15:47	7°♓24'52	19.06104 AU
direct	-3704 Oct 13 j 15:06	5°♓26'17	
evening set	-3703 Jan 10 j 19:36	8°♓23'38	
conjunction	-3703 Jan 26 j 21:09	9°♓18'08	-0°39'37
minimum elong	-3703 Jan 26 j 21:09	9°♓18'08	0°39'46
max. Earth dist.	-3703 Jan 27 j 21:45	9°♓21'38	21.05489 AU
morning rise	-3703 Feb 12 j 02:59	10°♓13'14	
retrograde	-3703 May 17 j 23:15	13°♓20'33	
opposition	-3703 Aug 03 j 21:34	11°♓20'46	-0°44'52
min. Earth dist.	-3703 Aug 03 j 00:02	11°♓22'57	19.04864 AU
direct	-3703 Oct 17 j 19:32	9°♓24'24	
evening set	-3702 Jan 15 j 01:25	12°♓21'53	
conjunction	-3702 Jan 31 j 04:02	13°♓16'30	-0°41'29
minimum elong	-3702 Jan 31 j 04:02	13°♓16'30	0°41'37
max. Earth dist.	-3702 Feb 01 j 03:49	13°♓19'53	21.04065 AU
morning rise	-3702 Feb 16 j 10:49	14°♓11'42	
retrograde	-3702 May 22 j 08:42	17°♓19'08	
min. Earth dist.	-3702 Aug 07 j 06:10	15°♓21'24	19.03253 AU
opposition	-3702 Aug 08 j 03:39	15°♓19'13	-0°46'49
direct	-3702 Oct 22 j 01:04	13°♓22'42	
evening set	-3701 Jan 19 j 07:31	16°♓20'22	
conjunction	-3701 Feb 04 j 11:04	17°♓15'08	-0°43'09
minimum elong	-3701 Feb 04 j 11:03	17°♓15'08	0°43'17
max. Earth dist.	-3701 Feb 05 j 09:42	17°♓18'21	21.02269 AU
morning rise	-3701 Feb 20 j 18:51	18°♓10'29	
retrograde	-3701 May 26 j 15:41	21°♓18'02	
opposition	-3701 Aug 12 j 09:51	19°♓18'03	-0°48'33
min. Earth dist.	-3701 Aug 11 j 14:20	19°♓20'02	19.01288 AU
direct	-3701 Oct 26 j 04:50	17°♓21'23	
evening set	-3700 Jan 23 j 14:05	20°♓19'20	
conjunction	-3700 Feb 08 j 18:45	21°♓14'14	-0°44'37
minimum elong	-3700 Feb 08 j 18:45	21°♓14'14	0°44'46
max. Earth dist.	-3700 Feb 09 j 16:21	21°♓17'19	21.00147 AU
morning rise	-3700 Feb 25 j 03:31	22°♓09'44	
retrograde	-3700 May 30 j 02:01	25°♓17'29	
opposition	-3700 Aug 15 j 15:48	23°♓17'25	-0°50'04
min. Earth dist.	-3700 Aug 14 j 20:36	23°♓19'22	18.98994 AU
direct	-3700 Oct 29 j 10:39	21°♓20'35	
evening set	-3699 Jan 26 j 21:17	24°♓18'55	
conjunction	-3699 Feb 12 j 02:56	25°♓14'00	-0°45'53
minimum elong	-3699 Feb 12 j 02:56	25°♓14'00	0°46'00
max. Earth dist.	-3699 Feb 12 j 23:07	25°♓16'53	20.97679 AU
morning rise	-3699 Feb 28 j 12:43	26°♓09'40	
retrograde	-3699 Jun 03 j 09:38	29°♓17'38	
opposition	-3699 Aug 19 j 22:01	27°♓17'31	-0°51'20
min. Earth dist.	-3699 Aug 19 j 05:03	27°♓19'15	18.96354 AU
direct	-3699 Nov 02 j 14:17	25°♓20'33	
evening set	-3698 Jan 31 j 04:56	28°♓19'20	
conjunction	-3698 Feb 16 j 11:41	29°♓14'36	-0°46'55
minimum elong	-3698 Feb 16 j 11:41	29°♓14'36	0°47'04
max. Earth dist.	-3698 Feb 17 j 06:25	29°♓17'17	20.94876 AU
	-3698 Mar 01 j 19:36	0°♒	
morning rise	-3698 Mar 04 j 22:22	0°♒10'26	
retrograde	-3698 Jun 07 j 20:40	3°♒18'41	
min. Earth dist.	-3698 Aug 23 j 11:48	1°♒20'13	18.93366 AU
opposition	-3698 Aug 24 j 04:10	1°♒18'32	-0°52'22
	-3698 Sep 28 j 03:27	30°℞♓	
direct	-3698 Nov 06 j 20:32	29°♓21'25	
	-3698 Dec 15 j 16:24	0°♒	
evening set	-3697 Feb 04 j 13:19	2°♒20'45	

conjunction	-3697 Feb 20 j 21:02	3°♒16'13	-0°47'44
minimum elong	-3697 Feb 20 j 21:02	3°♒16'13	0°47'52
max. Earth dist.	-3697 Feb 21 j 14:08	3°♒18'39	20.91700 AU
morning rise	-3697 Mar 09 j 08:40	4°♒12'14	
retrograde	-3697 Jun 12 j 05:19	7°♒20'48	
opposition	-3697 Aug 28 j 10:39	5°♒20'37	-0°53'09
min. Earth dist.	-3697 Aug 27 j 20:46	5°♒22'03	18.89999 AU
direct	-3697 Nov 11 j 00:50	3°♒23'20	
evening set	-3696 Feb 08 j 22:19	6°♒23'16	
conjunction	-3696 Feb 25 j 07:08	7°♒18'58	-0°48'19
minimum elong	-3696 Feb 25 j 07:08	7°♒18'58	0°48'27
max. Earth dist.	-3696 Feb 25 j 22:17	7°♒21'07	20.88145 AU
morning rise	-3696 Mar 12 j 19:41	8°♒15'11	
retrograde	-3696 Jun 15 j 16:59	11°♒24'06	
opposition	-3696 Aug 31 j 17:16	9°♒23'53	-0°53'40
min. Earth dist.	-3696 Aug 31 j 04:26	9°♒25'12	18.86224 AU
direct	-3696 Nov 14 j 07:39	7°♒26'22	
evening set	-3695 Feb 12 j 08:16	10°♒27'01	
conjunction	-3695 Feb 28 j 18:04	11°♒22'56	-0°48'40
minimum elong	-3695 Feb 28 j 18:04	11°♒22'56	0°48'46
max. Earth dist.	-3695 Mar 01 j 07:07	11°♒24'48	20.84141 AU
morning rise	-3695 Mar 17 j 07:28	12°♒19'21	
	-3695 May 16 j 19:59	15°♒	
retrograde	-3695 Jun 20 j 02:44	15°♒28'39	
	-3695 Jul 24 j 19:27	15°℞♒	
opposition	-3695 Sep 05 j 00:08	13°♒28'22	-0°53'55
min. Earth dist.	-3695 Sep 04 j 14:04	13°♒29'24	18.81994 AU
direct	-3695 Nov 18 j 13:06	11°♒30'37	
evening set	-3694 Feb 16 j 18:51	14°♒31'59	
	-3694 Feb 25 j 01:12	15°♒	
conjunction	-3694 Mar 05 j 05:41	15°♒28'09	-0°48'45
minimum elong	-3694 Mar 05 j 05:41	15°♒28'09	0°48'51
max. Earth dist.	-3694 Mar 05 j 16:15	15°♒29'39	20.79696 AU
morning rise	-3694 Mar 21 j 19:56	16°♒24'47	
retrograde	-3694 Jun 24 j 14:42	19°♒34'28	
opposition	-3694 Sep 09 j 07:19	17°♒34'05	-0°53'54
min. Earth dist.	-3694 Sep 08 j 22:29	17°♒35'00	18.77318 AU
direct	-3694 Nov 22 j 20:45	15°♒36'03	
evening set	-3693 Feb 21 j 06:03	18°♒38'12	
conjunction	-3693 Mar 09 j 17:52	19°♒34'36	-0°48'36
minimum elong	-3693 Mar 09 j 17:52	19°♒34'36	0°48'42
max. Earth dist.	-3693 Mar 10 j 02:21	19°♒35'49	20.74797 AU
morning rise	-3693 Mar 26 j 08:53	20°♒31'28	
retrograde	-3693 Jun 29 j 01:16	23°♒41'32	
opposition	-3693 Sep 13 j 14:55	21°♒41'02	-0°53'36
min. Earth dist.	-3693 Sep 13 j 08:47	21°♒41'41	18.72207 AU
direct	-3693 Nov 27 j 03:21	19°♒42'40	
evening set	-3692 Feb 25 j 18:06	22°♒45'39	
conjunction	-3692 Mar 13 j 06:54	23°♒42'19	-0°48'11
minimum elong	-3692 Mar 13 j 06:54	23°♒42'19	0°48'16
max. Earth dist.	-3692 Mar 13 j 12:43	23°♒43'09	20.69508 AU
morning rise	-3692 Mar 29 j 22:46	24°♒39'25	
retrograde	-3692 Jul 02 j 13:59	27°♒49'53	
opposition	-3692 Sep 16 j 22:33	25°♒49'14	-0°53'01
min. Earth dist.	-3692 Sep 16 j 17:49	25°♒49'43	18.66732 AU
direct	-3692 Nov 30 j 12:02	23°♒50'29	
evening set	-3691 Mar 01 j 06:57	26°♒54'21	
conjunction	-3691 Mar 17 j 20:43	27°♒51'17	-0°47'31
minimum elong	-3691 Mar 17 j 20:43	27°♒51'17	0°47'37
max. Earth dist.	-3691 Mar 18 j 00:36	27°♒51'51	20.63866 AU
morning rise	-3691 Apr 03 j 13:12	28°♒48'38	

Attention, astronomical year style is used: The year -3691 in astronomical counting style is the year 3692 BCE in historical counting style.

	-3691 Apr 25 j 20:00	0°♓	
retrograde	-3691 Jul 07 j 01:19	1°♓59'30	
	-3691 Sep 20 j 18:16	30°♅♒	
opposition	-3691 Sep 21 j 06:44	29°♒58'42	-0°52'09
min. Earth dist.	-3691 Sep 21 j 04:33	29°♒58'55	18.60944 AU
direct	-3691 Dec 04 j 19:32	27°♒59'34	
	-3690 Feb 13 j 21:57	0°♓	
evening set	-3690 Mar 05 j 20:24	1°♓04'22	
conjunction	-3690 Mar 22 j 11:00	2°♓01'34	-0°46'36
minimum elong	-3690 Mar 22 j 11:00	2°♓01'34	0°46'41
max. Earth dist.	-3690 Mar 22 j 12:16	2°♓01'45	20.57964 AU
morning rise	-3690 Apr 08 j 04:13	2°♓59'09	
retrograde	-3690 Jul 11 j 14:58	6°♓10'28	
opposition	-3690 Sep 25 j 15:10	4°♓09'29	-0°51'00
min. Earth dist.	-3690 Sep 25 j 14:17	4°♓09'35	18.54933 AU
direct	-3690 Dec 09 j 05:01	2°♓09'57	
evening set	-3689 Mar 10 j 10:41	5°♓15'45	
conjunction	-3689 Mar 27 j 02:11	6°♓13'14	-0°45'26
minimum elong	-3689 Mar 27 j 02:11	6°♓13'14	0°45'30
max. Earth dist.	-3689 Mar 27 j 01:53	6°♓13'12	20.51855 AU
morning rise	-3689 Apr 12 j 19:53	7°♓11'04	
retrograde	-3689 Jul 16 j 03:40	10°♓22'50	
opposition	-3689 Sep 30 j 00:04	8°♓21'42	-0°49'35
min. Earth dist.	-3689 Sep 30 j 01:30	8°♓21'33	18.48751 AU
direct	-3689 Dec 13 j 13:39	6°♓21'46	
evening set	-3688 Mar 14 j 01:49	9°♓28'37	
conjunction	-3688 Mar 30 j 18:05	10°♓26'23	-0°44'01
minimum elong	-3688 Mar 30 j 18:05	10°♓26'23	0°44'04
max. Earth dist.	-3688 Mar 30 j 15:01	10°♓25'56	20.45623 AU
morning rise	-3688 Apr 16 j 12:27	11°♓24'28	
retrograde	-3688 Jul 19 j 18:16	14°♓36'43	
opposition	-3688 Oct 03 j 09:26	12°♓35'26	-0°47'53
min. Earth dist.	-3688 Oct 03 j 12:13	12°♓35'09	18.42468 AU
direct	-3688 Dec 16 j 23:53	10°♓35'06	
evening set	-3687 Mar 18 j 17:48	13°♓43'03	
conjunction	-3687 Apr 04 j 10:53	14°♓41'07	-0°42'21
minimum elong	-3687 Apr 04 j 10:54	14°♓41'07	0°42'23
max. Earth dist.	-3687 Apr 04 j 06:27	14°♓40'28	20.39292 AU
morning rise	-3687 Apr 21 j 05:32	15°♓39'27	
retrograde	-3687 Jul 24 j 08:35	18°♓52'11	
opposition	-3687 Oct 07 j 19:22	16°♓50'48	-0°45'56
min. Earth dist.	-3687 Oct 08 j 00:15	16°♓50'17	18.36110 AU
direct	-3687 Dec 21 j 10:04	14°♓50'06	
evening set	-3686 Mar 23 j 10:42	17°♓59'11	
conjunction	-3686 Apr 09 j 04:22	18°♓57'32	-0°40'27
minimum elong	-3686 Apr 09 j 04:22	18°♓57'32	0°40'29
max. Earth dist.	-3686 Apr 08 j 21:01	18°♓56'28	20.32930 AU
morning rise	-3686 Apr 25 j 23:32	19°♓56'08	
retrograde	-3686 Jul 29 j 00:03	23°♓09'24	
opposition	-3686 Oct 12 j 05:55	21°♓07'55	-0°43'42
min. Earth dist.	-3686 Oct 12 j 12:10	21°♓07'15	18.29741 AU
direct	-3686 Dec 25 j 21:13	19°♓06'51	
evening set	-3685 Mar 28 j 04:18	22°♓17'08	
conjunction	-3685 Apr 13 j 22:44	23°♓15'47	-0°38'18
minimum elong	-3685 Apr 13 j 22:44	23°♓15'47	0°38'19
max. Earth dist.	-3685 Apr 13 j 14:16	23°♓14'33	20.26549 AU
morning rise	-3685 Apr 30 j 18:04	24°♓14'38	
retrograde	-3685 Aug 02 j 16:02	27°♓28'26	
opposition	-3685 Oct 16 j 17:10	25°♓26'54	-0°41'12
min. Earth dist.	-3685 Oct 17 j 01:24	25°♓26'01	18.23350 AU
direct	-3685 Dec 30 j 09:18	23°♓25'30	
evening set	-3684 Mar 31 j 23:12	26°♓37'01	
conjunction	-3684 Apr 17 j 18:02	27°♓35'58	-0°35'55
minimum elong	-3684 Apr 17 j 18:02	27°♓35'58	0°35'56
max. Earth dist.	-3684 Apr 17 j 06:22	27°♓34'15	20.20163 AU
morning rise	-3684 May 04 j 13:46	28°♓35'04	
	-3684 May 30 j 19:46	0°♈	
retrograde	-3684 Aug 06 j 08:12	1°♈49'26	
	-3684 Oct 15 j 11:11	30°♄♓	
opposition	-3684 Oct 20 j 04:57	29°♓47'51	-0°38'27
min. Earth dist.	-3684 Oct 20 j 14:58	29°♓46'46	18.16956 AU
direct	-3683 Jan 02 j 22:10	27°♓46'05	
	-3683 Mar 19 j 02:13	0°♈	
evening set	-3683 Apr 05 j 18:59	0°♈58'54	
conjunction	-3683 Apr 22 j 14:25	1°♈58'09	-0°33'19
minimum elong	-3683 Apr 22 j 14:25	1°♈58'09	0°33'19
max. Earth dist.	-3683 Apr 22 j 01:33	1°♈56'15	20.13747 AU
morning rise	-3683 May 09 j 10:04	2°♈57'30	
retrograde	-3683 Aug 11 j 01:38	6°♈12'25	
opposition	-3683 Oct 24 j 17:40	4°♈10'48	-0°35'27
min. Earth dist.	-3683 Oct 25 j 05:37	4°♈09'31	18.10521 AU
direct	-3682 Jan 07 j 12:10	2°♈08'43	
evening set	-3682 Apr 10 j 15:42	5°♈22'48	
conjunction	-3682 Apr 27 j 11:19	6°♈22'20	-0°30'30
minimum elong	-3682 Apr 27 j 11:19	6°♈22'20	0°30'28
max. Earth dist.	-3682 Apr 26 j 19:03	6°♈19'55	20.07296 AU
morning rise	-3682 May 14 j 07:09	7°♈21'55	
retrograde	-3682 Aug 15 j 18:42	10°♈37'25	
opposition	-3682 Oct 29 j 07:07	8°♈35'44	-0°32'12
min. Earth dist.	-3682 Oct 29 j 21:03	8°♈34'14	18.04056 AU
direct	-3681 Jan 12 j 03:20	6°♈33'16	
evening set	-3681 Apr 15 j 13:19	9°♈48'40	
conjunction	-3681 May 02 j 09:24	10°♈48'29	-0°27'28
minimum elong	-3681 May 02 j 09:24	10°♈48'29	0°27'27
max. Earth dist.	-3681 May 01 j 15:58	10°♈45'53	20.00801 AU
morning rise	-3681 May 19 j 05:00	11°♈48'18	
retrograde	-3681 Aug 20 j 13:04	15°♈04'20	
opposition	-3681 Nov 02 j 21:15	13°♈02'35	-0°28'45
min. Earth dist.	-3681 Nov 03 j 12:54	13°♈00'53	17.97544 AU
direct	-3680 Jan 16 j 19:15	10°♈59'45	
evening set	-3680 Apr 19 j 12:01	14°♈16'26	
max. Earth dist.	-3680 May 05 j 11:10	15°♈13'23	19.94285 AU
conjunction	-3680 May 06 j 08:07	15°♈16'31	-0°24'15
minimum elong	-3680 May 06 j 08:07	15°♈16'31	0°24'13
morning rise	-3680 May 23 j 03:43	16°♈16'33	
retrograde	-3680 Aug 24 j 07:11	19°♈33'07	
opposition	-3680 Nov 06 j 12:14	17°♈31'16	-0°25'05
min. Earth dist.	-3680 Nov 07 j 05:59	17°♈29'21	17.91038 AU
direct	-3679 Jan 20 j 12:34	15°♈28'02	
evening set	-3679 Apr 24 j 11:16	18°♈46'00	
max. Earth dist.	-3679 May 10 j 09:45	19°♈43'03	19.87790 AU
conjunction	-3679 May 11 j 07:36	19°♈46'20	-0°20'52
minimum elong	-3679 May 11 j 07:36	19°♈46'20	0°20'50
morning rise	-3679 May 28 j 02:46	20°♈46'34	
retrograde	-3679 Aug 29 j 02:29	24°♈03'38	
opposition	-3679 Nov 11 j 03:54	22°♈01'42	-0°21'15
min. Earth dist.	-3679 Nov 11 j 22:52	21°♈59'39	17.84575 AU
direct	-3678 Jan 25 j 06:44	19°♈58'04	
evening set	-3678 Apr 29 j 11:25	23°♈17'17	
max. Earth dist.	-3678 May 15 j 06:45	24°♈14'07	19.81387 AU
conjunction	-3678 May 16 j 07:34	24°♈17'52	-0°17'20

Attention, astronomical year style is used: The year -3678 in astronomical counting style is the year 3679 BCE in historical counting style.

minimum elong	-3678 May 16 j 07:34	24°♈17'52	0°17'17
morning rise	-3678 Jun 02 j 02:31	25°♈18'18	
retrograde	-3678 Sep 02 j 21:16	28°♈35'52	
opposition	-3678 Nov 15 j 20:17	26°♈33'48	-0°17'15
min. Earth dist.	-3678 Nov 16 j 17:15	26°♈31'31	17.78260 AU
direct	-3677 Jan 30 j 01:36	24°♈29'45	
evening set	-3677 May 04 j 12:00	27°♈50'13	
max. Earth dist.	-3677 May 20 j 06:50	28°♈47'10	19.75162 AU
conjunction	-3677 May 21 j 08:13	28°♈51'01	-0°13'41
minimum elong	-3677 May 21 j 08:13	28°♈51'01	0°13'37
behind sun begin	-3677 May 21 j 04:41	28°♈50'30	
behind sun end	-3677 May 21 j 11:44	28°♈51'32	
morning rise	-3677 Jun 07 j 02:38	29°♈51'38	
	-3677 Jun 09 j 11:27	0°♉	
retrograde	-3677 Sep 07 j 17:46	3°♉09'39	
opposition	-3677 Nov 20 j 13:23	1°♉07'30	-0°13'07
min. Earth dist.	-3677 Nov 21 j 11:01	1°♉05'09	17.72141 AU
	-3677 Dec 17 j 21:43	30°℞♈	
direct	-3676 Feb 03 j 21:57	29°♈03'04	
	-3676 Mar 22 j 01:31	0°♉	
evening set	-3676 May 08 j 13:31	2°♉24'43	
max. Earth dist.	-3676 May 24 j 05:40	3°♉21'31	19.69172 AU
conjunction	-3676 May 25 j 09:22	3°♉25'44	-0°09'56
minimum elong	-3676 May 25 j 09:22	3°♉25'44	0°09'51
behind sun begin	-3676 May 25 j 03:53	3°♉24'55	
behind sun end	-3676 May 25 j 14:50	3°♉26'33	
morning rise	-3676 Jun 11 j 03:17	4°♉26'30	
retrograde	-3676 Sep 11 j 13:18	7°♉44'59	
opposition	-3676 Nov 24 j 07:14	5°♉42'44	-0°08'54
min. Earth dist.	-3676 Nov 25 j 06:44	5°♉40'10	17.66315 AU
direct	-3675 Feb 07 j 18:15	3°♉37'55	
evening set	-3675 May 13 j 15:26	7°♉00'45	
max. Earth dist.	-3675 May 29 j 07:04	7°♉57'41	19.63514 AU
conjunction	-3675 May 30 j 11:02	8°♉01'57	-0°06'06
minimum elong	-3675 May 30 j 11:01	8°♉01'57	0°06'01
behind sun begin	-3675 May 30 j 04:35	8°♉01'00	
behind sun end	-3675 May 30 j 17:28	8°♉02'55	
morning rise	-3675 Jun 16 j 04:14	9°♉02'52	
retrograde	-3675 Sep 16 j 11:24	12°♉21'46	
opposition	-3675 Nov 29 j 01:51	10°♉19'27	-0°04'35
min. Earth dist.	-3675 Nov 30 j 01:21	10°♉16'53	17.60846 AU
direct	-3674 Feb 12 j 16:25	8°♉14'18	
evening set	-3674 May 18 j 17:48	11°♉38'15	
max. Earth dist.	-3674 Jun 03 j 07:33	12°♉35'07	19.58245 AU
conjunction	-3674 Jun 04 j 12:52	12°♉39'37	-0°02'12
minimum elong	-3674 Jun 04 j 12:52	12°♉39'37	0°02'07
behind sun begin	-3674 Jun 04 j 06:05	12°♉38'36	
behind sun end	-3674 Jun 04 j 19:39	12°♉40'38	
morning rise	-3674 Jun 21 j 05:21	13°♉40'40	
	-3674 Jul 14 j 13:22	15°♉	
retrograde	-3674 Sep 21 j 07:47	16°♉59'58	
	-3674 Dec 02 j 23:30	15°℞♉	
opposition	-3674 Dec 03 j 21:19	14°♉57'37	-0°00'13
min. Earth dist.	-3674 Dec 04 j 22:21	14°♉54'53	17.55813 AU
asc. node	-3674 Dec 22 j 17:09	14°♉09'32	
direct	-3673 Feb 17 j 13:21	12°♉52'10	
	-3673 May 01 j 06:03	15°♉	
evening set	-3673 May 23 j 20:45	16°♉17'12	
max. Earth dist.	-3673 Jun 08 j 09:45	17°♉14'10	19.53445 AU
conjunction	-3673 Jun 09 j 15:18	17°♉18'43	0°01'51
minimum elong	-3673 Jun 09 j 15:18	17°♉18'43	0°01'56
behind sun begin	-3673 Jun 09 j 08:32	17°♉17'42	
behind sun end	-3673 Jun 09 j 22:04	17°♉19'44	
morning rise	-3673 Jun 26 j 06:58	18°♉19'51	
retrograde	-3673 Sep 26 j 07:39	21°♉39'33	
opposition	-3673 Dec 08 j 17:15	19°♉37'12	0°04'10
min. Earth dist.	-3673 Dec 09 j 17:53	19°♉34'31	17.51254 AU
direct	-3672 Feb 22 j 12:57	17°♉31'30	
evening set	-3672 May 28 j 00:15	20°♉57'35	
conjunction	-3672 Jun 13 j 18:08	21°♉59'13	0°05'47
minimum elong	-3672 Jun 13 j 18:09	21°♉59'13	0°05'54
behind sun begin	-3672 Jun 13 j 11:41	21°♉58'15	
behind sun end	-3672 Jun 14 j 00:36	22°♉00'12	
max. Earth dist.	-3672 Jun 12 j 12:00	21°♉54'34	19.49132 AU
morning rise	-3672 Jun 30 j 08:49	23°♉00'27	
retrograde	-3672 Sep 30 j 05:02	26°♉20'30	
opposition	-3672 Dec 12 j 14:15	24°♉18'12	0°08'32
min. Earth dist.	-3672 Dec 13 j 16:15	24°♉15'21	17.47206 AU
direct	-3671 Feb 26 j 10:47	22°♉12'18	
evening set	-3671 Jun 02 j 04:00	25°♉39'21	
conjunction	-3671 Jun 18 j 21:04	26°♉41'05	0°09'41
minimum elong	-3671 Jun 18 j 21:05	26°♉41'05	0°09'47
behind sun begin	-3671 Jun 18 j 15:35	26°♉40'15	
behind sun end	-3671 Jun 19 j 02:34	26°♉41'55	
max. Earth dist.	-3671 Jun 17 j 14:37	26°♉36'21	19.45343 AU
morning rise	-3671 Jul 05 j 10:50	27°♉42'22	
	-3671 Aug 17 j 23:05	0°♊	
retrograde	-3671 Oct 05 j 05:48	1°♊02'47	
	-3671 Nov 23 j 19:02	30°℞♉	
opposition	-3671 Dec 17 j 11:49	29°♉00'32	0°12'53
min. Earth dist.	-3671 Dec 18 j 13:05	28°♉57'46	17.43667 AU
direct	-3670 Mar 03 j 11:38	26°♉54'31	
	-3670 Jun 01 j 02:23	0°♊	
evening set	-3670 Jun 07 j 08:09	0°♊22'27	
max. Earth dist.	-3670 Jun 22 j 18:12	1°♊19'33	19.42046 AU
conjunction	-3670 Jun 24 j 00:26	1°♊24'15	0°13'33
minimum elong	-3670 Jun 24 j 00:26	1°♊24'15	0°13'41
behind sun begin	-3670 Jun 23 j 20:55	1°♊23'43	
behind sun end	-3670 Jun 24 j 03:58	1°♊24'47	
morning rise	-3670 Jul 10 j 13:01	2°♊25'34	
retrograde	-3670 Oct 10 j 03:52	5°♊46'17	
opposition	-3670 Dec 22 j 10:10	3°♊44'08	0°17'10
min. Earth dist.	-3670 Dec 23 j 12:44	3°♊41'13	17.40621 AU
direct	-3669 Mar 08 j 10:59	1°♊37'59	
evening set	-3669 Jun 12 j 12:39	5°♊06'44	
max. Earth dist.	-3669 Jun 27 j 20:58	6°♊03'44	19.39235 AU
conjunction	-3669 Jun 29 j 03:54	6°♊08'34	0°17'20
minimum elong	-3669 Jun 29 j 03:54	6°♊08'34	0°17'28
morning rise	-3669 Jul 15 j 15:31	7°♊09'53	
retrograde	-3669 Oct 15 j 04:50	10°♊30'53	
opposition	-3669 Dec 27 j 09:11	8°♊28'47	0°21'22
min. Earth dist.	-3669 Dec 28 j 11:00	8°♊25'58	17.38035 AU
direct	-3668 Mar 12 j 13:48	6°♊22'34	
evening set	-3668 Jun 16 j 17:16	9°♊52'00	
max. Earth dist.	-3668 Jul 02 j 01:29	10°♊49'08	19.36858 AU
conjunction	-3668 Jul 03 j 07:36	10°♊53'51	0°21'02
minimum elong	-3668 Jul 03 j 07:35	10°♊53'51	0°21'10
morning rise	-3668 Jul 19 j 17:49	11°♊55'08	
retrograde	-3668 Oct 19 j 03:04	15°♊16'20	
opposition	-3668 Dec 31 j 09:02	13°♊14'19	0°25'25
min. Earth dist.	-3667 Jan 01 j 11:47	13°♊11'24	17.35882 AU
direct	-3667 Mar 17 j 15:24	11°♊08'01	
evening set	-3667 Jun 21 j 22:02	14°♊38'02	
max. Earth dist.	-3667 Jul 07 j 04:14	15°♊35'00	19.34929 AU

Attention, astronomical year style is used: The year -3667 in astronomical counting style is the year 3668 BCE in historical counting style.

conjunction	-3667 Jul 08 j 11:07	15°♊39'50	0°24'35
minimum elong	-3667 Jul 08 j 11:06	15°♊39'50	0°24'44
morning rise	-3667 Jul 24 j 20:16	16°♊41'05	
retrograde	-3667 Oct 24 j 03:41	20°♊02'27	
opposition	-3666 Jan 05 j 09:19	18°♊00'29	0°29'18
min. Earth dist.	-3666 Jan 06 j 11:08	17°♊57'40	17.34178 AU
direct	-3666 Mar 22 j 19:41	15°♊54'06	
evening set	-3666 Jun 27 j 02:27	19°♊24'32	
max. Earth dist.	-3666 Jul 12 j 09:10	20°♊21'41	19.33437 AU
conjunction	-3666 Jul 13 j 14:34	20°♊26'18	0°27'59
minimum elong	-3666 Jul 13 j 14:33	20°♊26'18	0°28'07
morning rise	-3666 Jul 29 j 22:19	21°♊27'29	
retrograde	-3666 Oct 29 j 02:34	24°♊48'56	
opposition	-3665 Jan 10 j 10:12	22°♊47'00	0°32'59
min. Earth dist.	-3665 Jan 11 j 12:22	22°♊44'10	17.32907 AU
direct	-3665 Mar 27 j 23:07	20°♊40'34	
evening set	-3665 Jul 02 j 07:00	24°♊11'19	
max. Earth dist.	-3665 Jul 17 j 11:45	25°♊08'17	19.32400 AU
conjunction	-3665 Jul 18 j 17:43	25°♊13'00	0°31'11
minimum elong	-3665 Jul 18 j 17:43	25°♊13'00	0°31'20
morning rise	-3665 Aug 04 j 00:21	26°♊14'06	
retrograde	-3665 Nov 03 j 02:40	29°♊35'35	
opposition	-3664 Jan 15 j 11:17	27°♊33'41	0°36'27
min. Earth dist.	-3664 Jan 16 j 12:28	27°♊30'57	17.32110 AU
direct	-3664 Apr 01 j 03:45	25°♊27'11	
evening set	-3664 Jul 06 j 11:05	28°♊58'08	
conjunction	-3664 Jul 22 j 20:43	29°♊59'43	0°34'10
minimum elong	-3664 Jul 22 j 20:43	29°♊59'43	0°34'19
max. Earth dist.	-3664 Jul 21 j 16:48	29°♊55'19	19.31845 AU
	-3664 Jul 22 j 22:32	0°♋	
morning rise	-3664 Aug 08 j 01:54	1°♋00'41	
retrograde	-3664 Nov 07 j 02:13	4°♋22'08	
opposition	-3663 Jan 19 j 12:57	2°♋20'16	0°39'39
min. Earth dist.	-3663 Jan 20 j 13:40	2°♋17'36	17.31802 AU
direct	-3663 Apr 06 j 07:46	0°♋13'46	
evening set	-3663 Jul 11 j 14:44	3°♋44'45	
conjunction	-3663 Jul 27 j 22:55	4°♋46'12	0°36'55
minimum elong	-3663 Jul 27 j 22:55	4°♋46'12	0°37'03
max. Earth dist.	-3663 Jul 26 j 19:09	4°♋41'49	19.31806 AU
morning rise	-3663 Aug 13 j 02:57	5°♋47'02	
retrograde	-3663 Nov 12 j 02:05	9°♋08'25	
opposition	-3662 Jan 24 j 14:44	7°♋06'34	0°42'34
min. Earth dist.	-3662 Jan 25 j 14:19	7°♋04'01	17.32043 AU
direct	-3662 Apr 11 j 11:54	5°♋00'03	
evening set	-3662 Jul 16 j 17:48	8°♋30'58	
max. Earth dist.	-3662 Jul 31 j 23:34	9°♋28'16	19.32328 AU
conjunction	-3662 Aug 02 j 00:51	9°♋32'16	0°39'24
minimum elong	-3662 Aug 02 j 00:51	9°♋32'16	0°39'32
morning rise	-3662 Aug 18 j 03:31	10°♋32'56	
retrograde	-3662 Nov 17 j 01:47	13°♋54'12	
opposition	-3661 Jan 29 j 16:37	11°♋52'23	0°45'11
min. Earth dist.	-3661 Jan 30 j 14:53	11°♋49'59	17.32846 AU
direct	-3661 Apr 16 j 15:59	9°♋45'55	
evening set	-3661 Jul 21 j 20:32	13°♋16'39	
max. Earth dist.	-3661 Aug 06 j 01:40	14°♋13'54	19.33435 AU
conjunction	-3661 Aug 07 j 02:08	14°♋17'46	0°41'36
minimum elong	-3661 Aug 07 j 02:08	14°♋17'46	0°41'44
morning rise	-3661 Aug 23 j 03:37	15°♋18'16	
retrograde	-3661 Nov 22 j 01:15	18°♋39'22	
opposition	-3660 Feb 03 j 18:47	16°♋37'36	0°47'29
min. Earth dist.	-3660 Feb 04 j 15:47	16°♋35'20	17.34270 AU
direct	-3660 Apr 20 j 19:34	14°♋31'14	
evening set	-3660 Jul 25 j 22:26	18°♋01'40	
max. Earth dist.	-3660 Aug 10 j 05:00	18°♋59'08	19.35173 AU
conjunction	-3660 Aug 11 j 02:48	19°♋02'35	0°43'31
minimum elong	-3660 Aug 11 j 02:47	19°♋02'35	0°43'40
morning rise	-3660 Aug 27 j 02:58	20°♋02'54	
retrograde	-3660 Nov 26 j 00:56	23°♋23'49	
opposition	-3659 Feb 07 j 21:04	21°♋22'08	0°49'28
min. Earth dist.	-3659 Feb 08 j 15:47	21°♋20'07	17.36313 AU
direct	-3659 Apr 25 j 23:31	19°♋15'57	
evening set	-3659 Jul 30 j 23:50	22°♋45'59	
max. Earth dist.	-3659 Aug 15 j 06:38	23°♋43'29	19.37539 AU
conjunction	-3659 Aug 16 j 02:50	23°♋46'41	0°45'08
minimum elong	-3659 Aug 16 j 02:50	23°♋46'41	0°45'16
morning rise	-3659 Sep 01 j 01:50	24°♋46'47	
retrograde	-3659 Dec 01 j 00:02	28°♋07'30	
opposition	-3658 Feb 12 j 23:18	26°♋05'55	0°51'06
min. Earth dist.	-3658 Feb 13 j 16:46	26°♋04'03	17.38999 AU
direct	-3658 May 01 j 02:13	23°♋59'59	
evening set	-3658 Aug 05 j 00:25	27°♋29'32	
max. Earth dist.	-3658 Aug 20 j 08:26	28°♋27'11	19.40532 AU
conjunction	-3658 Aug 21 j 02:13	28°♋29'59	0°46'27
minimum elong	-3658 Aug 21 j 02:13	28°♋29'59	0°46'35
morning rise	-3658 Sep 06 j 00:07	29°♋29'53	
	-3658 Sep 14 j 06:39	0°♌	
retrograde	-3658 Dec 05 j 23:30	2°♌50'21	
opposition	-3657 Feb 18 j 01:28	0°♌48'56	0°52'23
min. Earth dist.	-3657 Feb 18 j 16:14	0°♌47'22	17.42261 AU
	-3657 Mar 09 j 16:30	30°℞♋	
direct	-3657 May 06 j 06:08	28°♋43'18	
	-3657 Jun 30 j 09:58	0°♌	
evening set	-3657 Aug 10 j 00:24	2°♌12'15	
max. Earth dist.	-3657 Aug 25 j 09:18	3°♌10'00	19.44069 AU
conjunction	-3657 Aug 26 j 00:56	3°♌12'28	0°47'27
minimum elong	-3657 Aug 26 j 00:56	3°♌12'28	0°47'35
morning rise	-3657 Sep 10 j 21:42	4°♌12'08	
retrograde	-3657 Dec 10 j 21:35	7°♌32'21	
opposition	-3656 Feb 23 j 03:41	5°♌31'06	0°53'19
min. Earth dist.	-3656 Feb 23 j 17:25	5°♌29'38	17.46057 AU
direct	-3656 May 10 j 08:36	3°♌25'48	
evening set	-3656 Aug 13 j 23:40	6°♌54'04	
conjunction	-3656 Aug 29 j 22:57	7°♌54'01	0°48'09
minimum elong	-3656 Aug 29 j 22:57	7°♌54'01	0°48'15
max. Earth dist.	-3656 Aug 29 j 09:22	7°♌51'53	19.48114 AU
morning rise	-3656 Sep 14 j 18:45	8°♌53'26	
retrograde	-3656 Dec 14 j 20:26	12°♌13'22	
opposition	-3655 Feb 27 j 05:45	10°♌12'17	0°53'53
min. Earth dist.	-3655 Feb 27 j 16:31	10°♌11'08	17.50313 AU
direct	-3655 May 15 j 12:24	8°♌07'20	
evening set	-3655 Aug 18 j 22:00	11°♌34'49	
conjunction	-3655 Sep 03 j 20:11	12°♌34'30	0°48'30
minimum elong	-3655 Sep 03 j 20:11	12°♌34'30	0°48'37
max. Earth dist.	-3655 Sep 03 j 09:09	12°♌32'46	19.52573 AU
morning rise	-3655 Sep 19 j 14:57	13°♌33'40	
	-3655 Oct 14 j 14:33	15°♌	
retrograde	-3655 Dec 19 j 17:15	16°♌53'15	
	-3654 Mar 01 j 07:03	15°℞♌	
opposition	-3654 Mar 04 j 07:43	14°♌52'20	0°54'06
min. Earth dist.	-3654 Mar 04 j 17:36	14°♌51'17	17.54961 AU
direct	-3654 May 20 j 14:33	12°♌47'46	
	-3654 Aug 02 j 12:47	15°♌	

Attention, astronomical year style is used: The year -3654 in astronomical counting style is the year 3655 BCE in historical counting style.

evening set	-3654 Aug 23 j 19:43	16°♌14'22		
conjunction	-3654 Sep 08 j 16:43	17°♌13'45	0°48'33	
minimum elong	-3654 Sep 08 j 16:43	17°♌13'45	0°48'38	
max. Earth dist.	-3654 Sep 08 j 07:12	17°♌12'15	19.57396 AU	
morning rise	-3654 Sep 24 j 10:41	18°♌12'40		
retrograde	-3654 Dec 24 j 14:56	21°♌31'52		
opposition	-3653 Mar 09 j 09:06	19°♌31'05	0°53'57	
min. Earth dist.	-3653 Mar 09 j 16:03	19°♌30'22	17.59929 AU	
direct	-3653 May 25 j 17:38	17°♌26'53		
evening set	-3653 Aug 28 j 16:33	20°♌52'31		
conjunction	-3653 Sep 13 j 12:35	21°♌51'37	0°48'16	
minimum elong	-3653 Sep 13 j 12:35	21°♌51'37	0°48'21	
max. Earth dist.	-3653 Sep 13 j 05:49	21°♌50'33	19.62502 AU	
morning rise	-3653 Sep 29 j 05:36	22°♌50'17		
retrograde	-3653 Dec 29 j 10:35	26°♌09'03		
opposition	-3652 Mar 13 j 10:30	24°♌08'24	0°53'27	
min. Earth dist.	-3652 Mar 13 j 16:30	24°♌07'47	17.65164 AU	
direct	-3652 May 29 j 18:16	22°♌04'34		
evening set	-3652 Sep 01 j 12:26	25°♌29'08		
conjunction	-3652 Sep 17 j 07:22	26°♌27'56	0°47'41	
minimum elong	-3652 Sep 17 j 07:22	26°♌27'56	0°47'46	
max. Earth dist.	-3652 Sep 17 j 01:53	26°♌27'04	19.67861 AU	
morning rise	-3652 Oct 02 j 23:48	27°♌26'20		
	-3652 Nov 22 j 12:26	0°♍		
retrograde	-3651 Jan 02 j 07:37	0°♍44'39		
	-3651 Feb 13 j 17:48	30°℞♌		
opposition	-3651 Mar 18 j 11:19	28°♌44'06	0°52'37	
min. Earth dist.	-3651 Mar 18 j 14:17	28°♌43'47	17.70625 AU	
direct	-3651 Jun 03 j 19:51	26°♌40'36		
	-3651 Sep 05 j 04:43	0°♍		
evening set	-3651 Sep 06 j 07:21	0°♍04'02		
conjunction	-3651 Sep 22 j 01:32	1°♍02'32	0°46'47	
minimum elong	-3651 Sep 22 j 01:32	1°♍02'32	0°46'51	
max. Earth dist.	-3651 Sep 21 j 23:05	1°♍02'10	19.73420 AU	
morning rise	-3651 Oct 07 j 17:11	2°♍00'42		
retrograde	-3650 Jan 07 j 02:04	5°♍18'30		
opposition	-3650 Mar 23 j 11:33	3°♍18'01	0°51'26	
min. Earth dist.	-3650 Mar 23 j 13:28	3°♍17'49	17.76277 AU	
direct	-3650 Jun 08 j 18:42	1°♍14'52		
evening set	-3650 Sep 11 j 01:22	4°♍37'06		
conjunction	-3650 Sep 26 j 18:37	5°♍35'18	0°45'36	
minimum elong	-3650 Sep 26 j 18:37	5°♍35'18	0°45'41	
max. Earth dist.	-3650 Sep 26 j 17:18	5°♍35'05	19.79173 AU	
morning rise	-3650 Oct 12 j 09:54	6°♍33'11		
retrograde	-3649 Jan 11 j 21:56	9°♍50'27		
opposition	-3649 Mar 28 j 11:11	7°♍50'01	0°49'57	
min. Earth dist.	-3649 Mar 28 j 10:11	7°♍50'07	17.82116 AU	
direct	-3649 Jun 13 j 18:25	5°♍47'12		
evening set	-3649 Sep 15 j 18:10	9°♍08'10		
conjunction	-3649 Oct 01 j 10:49	10°♍06'04	0°44'09	
minimum elong	-3649 Oct 01 j 10:49	10°♍06'04	0°44'12	
max. Earth dist.	-3649 Oct 01 j 12:52	10°♍06'23	19.85102 AU	
morning rise	-3649 Oct 17 j 01:28	11°♍03'42		
retrograde	-3648 Jan 16 j 15:36	14°♍20'25		
opposition	-3648 Apr 01 j 10:19	12°♍20'01	0°48'10	
min. Earth dist.	-3648 Apr 01 j 07:49	12°♍20'17	17.88137 AU	
direct	-3648 Jun 17 j 16:17	10°♍17'32		
evening set	-3648 Sep 19 j 10:08	13°♍37'13		
conjunction	-3648 Oct 05 j 01:57	14°♍34'48	0°42'26	
minimum elong	-3648 Oct 05 j 01:58	14°♍34'48	0°42'29	

max. Earth dist.	-3648 Oct 05 j 05:20	14°♍35'20	19.91232 AU	
morning rise	-3648 Oct 20 j 16:24	15°♍32'12		
retrograde	-3647 Jan 20 j 09:52	18°♍48'20		
opposition	-3647 Apr 06 j 08:38	16°♍47'58	0°46'06	
min. Earth dist.	-3647 Apr 06 j 03:13	16°♍48'32	17.94376 AU	
direct	-3647 Jun 22 j 13:57	14°♍45'50		
evening set	-3647 Sep 24 j 00:54	18°♍04'12		
conjunction	-3647 Oct 09 j 16:20	19°♍01'31	0°40'29	
minimum elong	-3647 Oct 09 j 16:20	19°♍01'31	0°40'30	
max. Earth dist.	-3647 Oct 09 j 23:14	19°♍02'34	19.97570 AU	
morning rise	-3647 Oct 25 j 06:20	19°♍58'38		
retrograde	-3646 Jan 25 j 02:38	23°♍14'13		
opposition	-3646 Apr 11 j 06:19	21°♍13'55	0°43'47	
min. Earth dist.	-3646 Apr 10 j 23:00	21°♍14'40	18.00810 AU	
direct	-3646 Jun 27 j 10:55	19°♍12'09		
evening set	-3646 Sep 28 j 15:01	22°♍29'13		
conjunction	-3646 Oct 14 j 05:45	23°♍26'14	0°38'18	
minimum elong	-3646 Oct 14 j 05:45	23°♍26'14	0°38'18	
max. Earth dist.	-3646 Oct 14 j 13:54	23°♍27'29	20.04105 AU	
morning rise	-3646 Oct 29 j 19:41	24°♍23'08		
retrograde	-3645 Jan 29 j 19:15	27°♍38'09		
opposition	-3645 Apr 16 j 03:09	25°♍37'55	0°41'14	
min. Earth dist.	-3645 Apr 15 j 17:13	25°♍38'57	18.07439 AU	
direct	-3645 Jul 02 j 06:18	23°♍36'34		
evening set	-3645 Oct 03 j 04:04	26°♍52'20		
conjunction	-3645 Oct 18 j 18:33	27°♍49'05	0°35'55	
minimum elong	-3645 Oct 18 j 18:33	27°♍49'06	0°35'55	
max. Earth dist.	-3645 Oct 19 j 06:07	27°♍50'51	20.10812 AU	
morning rise	-3645 Nov 03 j 08:12	28°♍45'45		
	-3645 Nov 25 j 06:43	0°♎		
retrograde	-3644 Feb 03 j 11:10	2°♎00'13		
opposition	-3644 Apr 19 j 23:29	0°♎00'07	0°38'27	
min. Earth dist.	-3644 Apr 19 j 11:27	0°♎01'21	18.14204 AU	
	-3644 Apr 20 j 00:36	30°℞♍		
direct	-3644 Jul 06 j 01:57	27°♍59'13		
	-3644 Sep 14 j 19:45	0°♎		
evening set	-3644 Oct 06 j 16:22	1°♎13'41		
conjunction	-3644 Oct 22 j 06:21	2°♎10'10	0°33'20	
minimum elong	-3644 Oct 22 j 06:21	2°♎10'10	0°33'19	
max. Earth dist.	-3644 Oct 22 j 19:05	2°♎12'06	20.17632 AU	
morning rise	-3644 Nov 06 j 20:09	3°♎06'36		
retrograde	-3643 Feb 07 j 02:32	6°♎20'34		
opposition	-3643 Apr 24 j 19:05	4°♎20'34	0°35'28	
min. Earth dist.	-3643 Apr 24 j 04:58	4°♎22'01	18.21063 AU	
direct	-3643 Jul 10 j 19:09	2°♎20'07		
evening set	-3643 Oct 11 j 03:50	5°♎33'20		
conjunction	-3643 Oct 26 j 17:45	6°♎29'33	0°30'35	
minimum elong	-3643 Oct 26 j 17:45	6°♎29'33	0°30'35	
max. Earth dist.	-3643 Oct 27 j 09:31	6°♎31'57	20.24498 AU	
morning rise	-3643 Nov 11 j 07:26	7°♎25'47		
retrograde	-3642 Feb 11 j 17:25	10°♎39'13		
opposition	-3642 Apr 29 j 13:46	8°♎39'22	0°32'19	
min. Earth dist.	-3642 Apr 28 j 21:44	8°♎41'00	18.27914 AU	
direct	-3642 Jul 15 j 13:17	6°♎39'22		
evening set	-3642 Oct 15 j 14:46	9°♎51'20		
conjunction	-3642 Oct 31 j 04:19	10°♎47'19	0°27'40	
minimum elong	-3642 Oct 31 j 04:19	10°♎47'19	0°27'39	
max. Earth dist.	-3642 Oct 31 j 20:55	10°♎49'49	20.31325 AU	
morning rise	-3642 Nov 15 j 18:17	11°♎43'21		
retrograde	-3641 Feb 16 j 07:45	14°♎56'18		
opposition	-3641 May 04 j 08:00	12°♎56'34	0°28'59	

Attention, astronomical year style is used: The year -3641 in astronomical counting style is the year 3642 BCE in historical counting style.

min. Earth dist.	-3641 May 03 j 14:31	12°♎58'20	18.34706 AU
direct	-3641 Jul 20 j 04:31	10°♎57'00	
evening set	-3641 Oct 20 j 00:45	14°♎07'46	
conjunction	-3641 Nov 04 j 14:21	15°♎03'31	0°24'37
minimum elong	-3641 Nov 04 j 14:21	15°♎03'31	0°24'35
max. Earth dist.	-3641 Nov 05 j 09:34	15°♎06'24	20.38046 AU
morning rise	-3641 Nov 20 j 04:20	15°♎59'21	
retrograde	-3640 Feb 20 j 21:29	19°♎11'48	
min. Earth dist.	-3640 May 07 j 06:07	17°♎14'10	18.41339 AU
opposition	-3640 May 08 j 01:30	17°♎12'12	0°25'31
direct	-3640 Jul 23 j 21:24	15°♎13'03	
evening set	-3640 Oct 23 j 10:23	18°♎22'37	
conjunction	-3640 Nov 07 j 23:47	19°♎18'09	0°21'27
minimum elong	-3640 Nov 07 j 23:47	19°♎18'09	0°21'25
max. Earth dist.	-3640 Nov 08 j 19:31	19°♎21'06	20.44578 AU
morning rise	-3640 Nov 23 j 14:11	20°♎13'49	
retrograde	-3639 Feb 24 j 10:51	23°♎25'48	
opposition	-3639 May 12 j 18:14	21°♎26'17	0°21'56
min. Earth dist.	-3639 May 11 j 22:03	21°♎28'19	18.47768 AU
direct	-3639 Jul 28 j 10:56	19°♎27'31	
evening set	-3639 Oct 27 j 19:11	22°♎35'55	
conjunction	-3639 Nov 12 j 08:49	23°♎31'15	0°18'11
minimum elong	-3639 Nov 12 j 08:49	23°♎31'15	0°18'07
max. Earth dist.	-3639 Nov 13 j 06:36	23°♎34'30	20.50866 AU
morning rise	-3639 Nov 27 j 23:25	24°♎26'45	
retrograde	-3638 Feb 28 j 23:10	27°♎38'15	
opposition	-3638 May 17 j 10:10	25°♎38'49	0°18'15
min. Earth dist.	-3638 May 16 j 12:17	25°♎41'01	18.53900 AU
direct	-3638 Aug 02 j 02:06	23°♎40'23	
evening set	-3638 Nov 01 j 03:31	26°♎47'40	
conjunction	-3638 Nov 16 j 17:06	27°♎42'48	0°14'50
minimum elong	-3638 Nov 16 j 17:06	27°♎42'48	0°14'47
behind sun begin	-3638 Nov 16 j 14:16	27°♎42'24	
behind sun end	-3638 Nov 16 j 19:57	27°♎43'13	
max. Earth dist.	-3638 Nov 17 j 15:08	27°♎46'05	20.56834 AU
morning rise	-3638 Dec 02 j 08:13	28°♎38'09	
	-3638 Dec 27 j 10:59	0°♏	
retrograde	-3637 Mar 05 j 11:02	1°♏49'11	
	-3637 May 17 j 19:42	30°℞♎	
min. Earth dist.	-3637 May 21 j 03:13	29°♎52'01	18.59713 AU
opposition	-3637 May 22 j 01:30	29°♎49'47	0°14'29
direct	-3637 Aug 06 j 14:09	27°♎51'39	
	-3637 Oct 19 j 01:56	0°♏	
evening set	-3637 Nov 05 j 11:07	0°♏57'50	
conjunction	-3637 Nov 21 j 01:03	1°♏52'48	0°11'26
minimum elong	-3637 Nov 21 j 01:03	1°♏52'48	0°11'21
behind sun begin	-3637 Nov 20 j 20:13	1°♏52'06	
behind sun end	-3637 Nov 21 j 05:53	1°♏53'30	
max. Earth dist.	-3637 Nov 22 j 00:54	1°♏56'20	20.62481 AU
morning rise	-3637 Dec 06 j 16:30	2°♏48'00	
retrograde	-3636 Mar 08 j 22:16	5°♏58'34	
opposition	-3636 May 25 j 15:57	3°♏59'11	0°10'41
min. Earth dist.	-3636 May 24 j 15:58	4°♏01'35	18.65189 AU
direct	-3636 Aug 10 j 03:42	2°♏01'19	
evening set	-3636 Nov 08 j 18:10	5°♏06'26	
conjunction	-3636 Nov 24 j 08:15	6°♏01'13	0°08'00
minimum elong	-3636 Nov 24 j 08:15	6°♏01'13	0°07'56
behind sun begin	-3636 Nov 24 j 02:22	6°♏00'23	
behind sun end	-3636 Nov 24 j 14:07	6°♏02'04	
max. Earth dist.	-3636 Nov 25 j 08:25	6°♏04'47	20.67793 AU
morning rise	-3636 Dec 10 j 00:24	6°♏56'18	
retrograde	-3635 Mar 13 j 08:38	10°♏06'26	
min. Earth dist.	-3635 May 29 j 05:41	8°♏09'25	18.70355 AU
opposition	-3635 May 30 j 05:44	8°♏07'01	0°06'51
direct	-3635 Aug 14 j 13:43	6°♏09'22	
evening set	-3635 Nov 13 j 00:37	9°♏13'28	
conjunction	-3635 Nov 28 j 15:10	10°♏08'07	0°04'33
minimum elong	-3635 Nov 28 j 15:10	10°♏08'07	0°04'27
behind sun begin	-3635 Nov 28 j 08:45	10°♏07'12	
behind sun end	-3635 Nov 28 j 21:35	10°♏09'02	
max. Earth dist.	-3635 Nov 29 j 17:04	10°♏11'55	20.72806 AU
morning rise	-3635 Dec 14 j 07:45	11°♏03'05	
retrograde	-3634 Mar 17 j 19:04	14°♏12'46	
opposition	-3634 Jun 03 j 18:26	12°♏13'20	0°03'01
min. Earth dist.	-3634 Jun 02 j 16:41	12°♏15'55	18.75223 AU
direct	-3634 Aug 19 j 01:45	10°♏15'54	
evening set	-3634 Nov 17 j 06:43	13°♏19'04	
conjunction	-3634 Dec 02 j 21:29	14°♏13'35	0°01'03
minimum elong	-3634 Dec 02 j 21:30	14°♏13'35	0°00'57
behind sun begin	-3634 Dec 02 j 14:58	14°♏12'39	
behind sun end	-3634 Dec 03 j 04:02	14°♏14'31	
max. Earth dist.	-3634 Dec 03 j 23:46	14°♏17'25	20.77536 AU
	-3634 Dec 16 j 03:54	15°♏	
morning rise	-3634 Dec 18 j 14:50	15°♏08'27	
desc. node	-3633 Mar 21 j 21:30	18°♏17'44	
retrograde	-3633 Mar 22 j 04:20	18°♏17'45	
min. Earth dist.	-3633 Jun 07 j 05:00	16°♏20'53	18.79839 AU
opposition	-3633 Jun 08 j 06:44	16°♏18'18	-0°00'49
	-3633 Jul 13 j 21:38	15°℞♏	
direct	-3633 Aug 23 j 09:50	14°♏21'04	
	-3633 Oct 01 j 15:01	15°♏	
evening set	-3633 Nov 21 j 12:08	17°♏23'21	
conjunction	-3633 Dec 07 j 03:31	18°♏17'45	-0°02'30
minimum elong	-3633 Dec 07 j 03:30	18°♏17'45	0°02'36
behind sun begin	-3633 Dec 06 j 20:58	18°♏16'49	
behind sun end	-3633 Dec 07 j 10:02	18°♏18'41	
max. Earth dist.	-3633 Dec 08 j 07:25	18°♏21'50	20.82024 AU
morning rise	-3633 Dec 22 j 21:23	19°♏12'32	
retrograde	-3632 Mar 25 j 14:37	22°♏21'28	
opposition	-3632 Jun 11 j 18:14	20°♏22'02	-0°04'37
min. Earth dist.	-3632 Jun 10 j 14:46	20°♏24'47	18.84197 AU
direct	-3632 Aug 26 j 20:17	18°♏25'01	
evening set	-3632 Nov 24 j 17:31	21°♏26'30	
conjunction	-3632 Dec 10 j 09:16	22°♏20'48	-0°05'55
minimum elong	-3632 Dec 10 j 09:16	22°♏20'48	0°06'01
behind sun begin	-3632 Dec 10 j 03:01	22°♏19'55	
behind sun end	-3632 Dec 10 j 15:30	22°♏21'41	
max. Earth dist.	-3632 Dec 11 j 13:21	22°♏24'53	20.86247 AU
morning rise	-3632 Dec 26 j 04:00	23°♏15'31	
retrograde	-3631 Mar 29 j 23:24	26°♏24'08	
min. Earth dist.	-3631 Jun 15 j 02:01	24°♏27'26	18.88297 AU
opposition	-3631 Jun 16 j 05:06	24°♏24'43	-0°08'23
direct	-3631 Aug 31 j 03:12	22°♏27'54	
evening set	-3631 Nov 28 j 22:25	25°♏28'39	
conjunction	-3631 Dec 14 j 14:53	26°♏22'53	-0°09'16
minimum elong	-3631 Dec 14 j 14:53	26°♏22'53	0°09'22
behind sun begin	-3631 Dec 14 j 09:22	26°♏22'06	
behind sun end	-3631 Dec 14 j 20:24	26°♏23'40	
max. Earth dist.	-3631 Dec 15 j 20:12	26°♏27'08	20.90203 AU
morning rise	-3631 Dec 30 j 10:17	27°♏17'33	
	-3630 Mar 01 j 16:57	0°♐	
retrograde	-3630 Apr 03 j 09:25	0°♐25'53	
	-3630 May 06 j 19:56	30°℞♏	

Attention, astronomical year style is used: The year -3630 in astronomical counting style is the year 3631 BCE in historical counting style.

min. Earth dist.	-3630 Jun 19 j 10:48	28°♏29'22	18.92097 AU	
opposition	-3630 Jun 20 j 15:20	28°♏26'30	-0°12'05	
direct	-3630 Sep 04 j 12:00	26°♏29'54		
evening set	-3630 Dec 03 j 03:11	29°♏30'00		
	-3630 Dec 11 j 21:06	0°♐		
conjunction	-3630 Dec 18 j 20:07	0°♐24'10	-0°12'35	
minimum elong	-3630 Dec 18 j 20:07	0°♐24'10	0°12'43	
behind sun begin	-3630 Dec 18 j 15:55	0°♐23'34		
behind sun end	-3630 Dec 19 j 00:20	0°♐24'45		
max. Earth dist.	-3630 Dec 20 j 01:22	0°♐28'24	20.93835 AU	
morning rise	-3629 Jan 03 j 16:26	1°♐18'48		
retrograde	-3629 Apr 07 j 18:07	4°♐26'55		
min. Earth dist.	-3629 Jun 23 j 21:29	2°♐30'20	18.95566 AU	
opposition	-3629 Jun 25 j 01:18	2°♐27'33	-0°15'44	
direct	-3629 Sep 08 j 18:20	0°♐31'08		
evening set	-3629 Dec 07 j 07:49	3°♐30'40		
conjunction	-3629 Dec 23 j 01:33	4°♐24'47	-0°15'50	
minimum elong	-3629 Dec 23 j 01:33	4°♐24'47	0°15'57	
behind sun begin	-3629 Dec 23 j 00:26	4°♐24'38		
behind sun end	-3629 Dec 23 j 02:40	4°♐24'57		
max. Earth dist.	-3629 Dec 24 j 07:38	4°♐29'08	20.97125 AU	
morning rise	-3628 Jan 07 j 22:36	5°♐19'24		
retrograde	-3628 Apr 11 j 03:58	8°♐27'18		
min. Earth dist.	-3628 Jun 27 j 05:42	6°♐30'53	18.98657 AU	
opposition	-3628 Jun 28 j 10:35	6°♐28'00	-0°19'17	
direct	-3628 Sep 12 j 01:58	4°♐31'45		
evening set	-3628 Dec 10 j 12:32	7°♐30'46		
conjunction	-3628 Dec 26 j 06:52	8°♐24'52	-0°19'00	
minimum elong	-3628 Dec 26 j 06:52	8°♐24'52	0°19'08	
max. Earth dist.	-3628 Dec 27 j 12:26	8°♐29'07	21.00000 AU	
morning rise	-3627 Jan 11 j 04:54	9°♐19'29		
retrograde	-3627 Apr 15 j 12:18	12°♐27'13		
opposition	-3627 Jul 02 j 19:37	10°♐27'56	-0°22'44	
min. Earth dist.	-3627 Jul 01 j 16:00	10°♐30'42	19.01314 AU	
direct	-3627 Sep 16 j 07:47	8°♐31'50		
evening set	-3627 Dec 14 j 17:12	11°♐30'25		
conjunction	-3627 Dec 30 j 12:23	12°♐24'31	-0°22'05	
minimum elong	-3627 Dec 30 j 12:23	12°♐24'31	0°22'13	
max. Earth dist.	-3627 Dec 31 j 18:14	12°♐28'48	21.02417 AU	
morning rise	-3626 Jan 15 j 11:11	13°♐19'08		
retrograde	-3626 Apr 19 j 22:13	16°♐26'44		
min. Earth dist.	-3626 Jul 05 j 23:48	14°♐30'17	19.03477 AU	
opposition	-3626 Jul 07 j 04:00	14°♐27'28	-0°26'05	
direct	-3626 Sep 20 j 14:48	12°♐31'28		
evening set	-3626 Dec 18 j 22:03	15°♐29'42		
conjunction	-3625 Jan 03 j 17:53	16°♐23'47	-0°25'02	
minimum elong	-3625 Jan 03 j 17:53	16°♐23'47	0°25'11	
max. Earth dist.	-3625 Jan 04 j 22:47	16°♐27'56	21.04312 AU	
morning rise	-3625 Jan 19 j 17:42	17°♐18'26		
retrograde	-3625 Apr 24 j 05:43	20°♐25'56		
min. Earth dist.	-3625 Jul 10 j 09:44	18°♐29'19	19.05108 AU	
opposition	-3625 Jul 11 j 12:20	18°♐26'39	-0°29'17	
direct	-3625 Sep 24 j 20:03	16°♐30'42		
evening set	-3625 Dec 23 j 02:43	19°♐28'37		
conjunction	-3624 Jan 07 j 23:33	20°♐22'44	-0°27'53	
minimum elong	-3624 Jan 07 j 23:33	20°♐22'44	0°28'01	
max. Earth dist.	-3624 Jan 09 j 04:21	20°♐26'52	21.05670 AU	
morning rise	-3624 Jan 24 j 00:14	21°♐17'25		
retrograde	-3624 Apr 27 j 15:53	24°♐24'50		
opposition	-3624 Jul 14 j 20:07	22°♐25'29	-0°32'20	
min. Earth dist.	-3624 Jul 13 j 17:15	22°♐28'11	19.06177 AU	
direct	-3624 Sep 28 j 02:53	20°♐29'33		
evening set	-3624 Dec 26 j 07:44	23°♐27'13		
conjunction	-3623 Jan 11 j 05:20	24°♐21'23	-0°30'34	
minimum elong	-3623 Jan 11 j 05:20	24°♐21'23	0°30'42	
max. Earth dist.	-3623 Jan 12 j 08:53	24°♐25'19	21.06454 AU	
morning rise	-3623 Jan 27 j 07:06	25°♐16'08		
retrograde	-3623 May 01 j 22:38	28°♐23'27		
min. Earth dist.	-3623 Jul 18 j 02:35	26°♐26'33	19.06691 AU	
opposition	-3623 Jul 19 j 03:32	26°♐24'02	-0°35'14	
direct	-3623 Oct 02 j 07:14	24°♐28'03		
evening set	-3623 Dec 30 j 12:37	27°♐25'32		
conjunction	-3622 Jan 15 j 11:16	28°♐19'46	-0°33'07	
minimum elong	-3622 Jan 15 j 11:16	28°♐19'46	0°33'16	
max. Earth dist.	-3622 Jan 16 j 14:32	28°♐23'39	21.06713 AU	
morning rise	-3622 Jan 31 j 13:55	29°♐14'34		
	-3622 Feb 14 j 14:14	0°♑		
retrograde	-3622 May 06 j 08:23	2°♑21'51		
min. Earth dist.	-3622 Jul 22 j 09:26	0°♑24'51	19.06693 AU	
opposition	-3622 Jul 23 j 10:34	0°♑22'19	-0°37'57	
	-3622 Aug 01 j 17:55	30°℞♐		
direct	-3622 Oct 06 j 13:57	28°♐26'15		
	-3622 Dec 07 j 18:14	0°♑		
evening set	-3621 Jan 03 j 17:37	1°♑23'38		
conjunction	-3621 Jan 19 j 17:04	2°♑17'56	-0°35'29	
minimum elong	-3621 Jan 19 j 17:04	2°♑17'56	0°35'37	
max. Earth dist.	-3621 Jan 20 j 19:12	2°♑21'40	21.06474 AU	
morning rise	-3621 Feb 04 j 20:48	3°♑12'49		
retrograde	-3621 May 10 j 15:12	6°♑20'06		
opposition	-3621 Jul 27 j 17:29	4°♑20'28	-0°40'29	
min. Earth dist.	-3621 Jul 26 j 18:11	4°♑22'49	19.06237 AU	
direct	-3621 Oct 10 j 17:34	2°♑24'18		
evening set	-3620 Jan 07 j 22:49	5°♑21'38		
conjunction	-3620 Jan 23 j 23:21	6°♑16'02	-0°37'41	
minimum elong	-3620 Jan 23 j 23:21	6°♑16'02	0°37'50	
max. Earth dist.	-3620 Jan 25 j 01:10	6°♑19'43	21.05815 AU	
morning rise	-3620 Feb 09 j 04:00	7°♑11'01		
retrograde	-3620 May 14 j 00:31	10°♑18'19		
opposition	-3620 Jul 30 j 23:52	8°♑18'35	-0°42'49	
min. Earth dist.	-3620 Jul 30 j 00:26	8°♑20'57	19.05376 AU	
direct	-3620 Oct 14 j 00:05	6°♑22'18		
evening set	-3619 Jan 11 j 04:25	9°♑19'42		
conjunction	-3619 Jan 27 j 05:50	10°♑14'12	-0°39'43	
minimum elong	-3619 Jan 27 j 05:50	10°♑14'12	0°39'51	
max. Earth dist.	-3619 Jan 28 j 06:20	10°♑17'42	21.04756 AU	
morning rise	-3619 Feb 12 j 11:34	11°♑09'18		
retrograde	-3619 May 18 j 08:04	14°♑16'42		
min. Earth dist.	-3619 Aug 03 j 08:47	12°♑19'02	19.04137 AU	
opposition	-3619 Aug 04 j 06:18	12°♑16'51	-0°44'57	
direct	-3619 Oct 18 j 03:29	10°♑20'27		
evening set	-3618 Jan 15 j 10:07	13°♑18'00		
conjunction	-3618 Jan 31 j 12:37	14°♑12'37	-0°41'33	
minimum elong	-3618 Jan 31 j 12:37	14°♑12'37	0°41'41	
max. Earth dist.	-3618 Feb 01 j 12:35	14°♑16'02	21.03343 AU	
morning rise	-3618 Feb 16 j 19:15	15°♑07'51		
retrograde	-3618 May 22 j 17:19	18°♑15'22		
opposition	-3618 Aug 08 j 12:24	16°♑15'26	-0°46'52	
min. Earth dist.	-3618 Aug 07 j 14:49	16°♑17'38	19.02546 AU	
direct	-3618 Oct 22 j 09:23	14°♑18'55		
evening set	-3617 Jan 19 j 16:21	17°♑16'42		
conjunction	-3617 Feb 04 j 19:46	18°♑11'28	-0°43'11	

Attention, astronomical year style is used: The year -3617 in astronomical counting style is the year 3618 BCE in historical counting style.

minimum elong	-3617 Feb 04 j 19:46	18°♉11'28	0°43'19
max. Earth dist.	-3617 Feb 05 j 18:19	18°♉14'41	21.01578 AU
morning rise	-3617 Feb 21 j 03:28	19°♉06'50	
retrograde	-3617 May 27 j 01:26	22°♉14'31	
opposition	-3617 Aug 12 j 18:40	20°♉14'32	-0°48'34
min. Earth dist.	-3617 Aug 11 j 23:07	20°♉16'32	19.00615 AU
direct	-3617 Oct 26 j 13:14	18°♉17'54	
evening set	-3616 Jan 23 j 22:53	21°♉15'59	
conjunction	-3616 Feb 09 j 03:28	22°♉10'55	-0°44'37
minimum elong	-3616 Feb 09 j 03:28	22°♉10'55	0°44'45
max. Earth dist.	-3616 Feb 10 j 01:12	22°♉14'01	20.99486 AU
morning rise	-3616 Feb 25 j 12:07	23°♉06'26	
retrograde	-3616 May 30 j 11:11	26°♉14'20	
min. Earth dist.	-3616 Aug 15 j 05:28	24°♉16'17	18.98338 AU
opposition	-3616 Aug 16 j 00:48	24°♉14'18	-0°50'03
direct	-3616 Oct 29 j 18:40	22°♉17'32	
evening set	-3615 Jan 27 j 06:12	25°♉16'01	
conjunction	-3615 Feb 12 j 11:43	26°♉11'07	-0°45'51
minimum elong	-3615 Feb 12 j 11:43	26°♉11'07	0°45'59
max. Earth dist.	-3615 Feb 13 j 07:45	26°♉13'59	20.97024 AU
morning rise	-3615 Feb 28 j 21:23	27°♉06'49	
	-3615 May 09 j 23:35	0°♒	
retrograde	-3615 Jun 03 j 19:40	0°♒14'58	
	-3615 Jun 28 j 20:05	30°℞♉	
opposition	-3615 Aug 20 j 07:00	28°♉14'54	-0°51'17
min. Earth dist.	-3615 Aug 19 j 14:03	28°♉16'38	18.95690 AU
direct	-3615 Nov 02 j 23:09	26°♉18'00	
evening set	-3614 Jan 31 j 13:59	29°♉16'57	
	-3614 Feb 13 j 06:54	0°♒	
conjunction	-3614 Feb 16 j 20:38	0°♒12'15	-0°46'52
minimum elong	-3614 Feb 16 j 20:38	0°♒12'15	0°46'59
max. Earth dist.	-3614 Feb 17 j 15:24	0°♒14'55	20.94197 AU
morning rise	-3614 Mar 05 j 07:12	1°♒08'06	
retrograde	-3614 Jun 08 j 06:09	4°♒16'33	
opposition	-3614 Aug 24 j 13:20	2°♒16'27	-0°52'17
min. Earth dist.	-3614 Aug 23 j 20:58	2°♒18'08	18.92656 AU
direct	-3614 Nov 07 j 05:03	0°♒19'23	
evening set	-3613 Feb 04 j 22:25	3°♒18'53	
conjunction	-3613 Feb 21 j 06:01	4°♒14'23	-0°47'39
minimum elong	-3613 Feb 21 j 06:01	4°♒14'23	0°47'46
max. Earth dist.	-3613 Feb 21 j 22:50	4°♒16'47	20.90948 AU
morning rise	-3613 Mar 09 j 17:33	5°♒10'26	
retrograde	-3613 Jun 12 j 15:11	8°♒19'13	
opposition	-3613 Aug 28 j 20:01	6°♒19'04	-0°53'02
min. Earth dist.	-3613 Aug 28 j 06:21	6°♒20'28	18.89188 AU
direct	-3613 Nov 11 j 09:55	4°♒21'48	
evening set	-3612 Feb 09 j 07:39	7°♒21'54	
conjunction	-3612 Feb 25 j 16:23	8°♒17'37	-0°48'11
minimum elong	-3612 Feb 25 j 16:23	8°♒17'37	0°48'18
max. Earth dist.	-3612 Feb 26 j 07:20	8°♒19'45	20.87264 AU
morning rise	-3612 Mar 13 j 04:49	9°♒13'52	
retrograde	-3612 Jun 16 j 02:45	12°♒22'58	
opposition	-3612 Sep 01 j 02:40	10°♒22'44	-0°53'30
min. Earth dist.	-3612 Aug 31 j 14:02	10°♒24'02	18.85263 AU
direct	-3612 Nov 14 j 17:01	8°♒25'14	
evening set	-3611 Feb 12 j 17:43	11°♒26'00	
conjunction	-3611 Mar 01 j 03:24	12°♒21'57	-0°48'30
minimum elong	-3611 Mar 01 j 03:24	12°♒21'57	0°48'36
max. Earth dist.	-3611 Mar 01 j 15:59	12°♒23'45	20.83095 AU
morning rise	-3611 Mar 17 j 16:44	13°♒18'24	
	-3611 Apr 19 j 22:52	15°♒	
retrograde	-3611 Jun 20 j 12:05	16°♒27'51	
	-3611 Aug 23 j 03:15	15°℞♒	
opposition	-3611 Sep 05 j 09:49	14°♒27'31	-0°53'43
min. Earth dist.	-3611 Sep 05 j 00:03	14°♒28'31	18.80858 AU
direct	-3611 Nov 18 j 22:29	12°♒29'43	
	-3610 Feb 07 j 16:54	15°♒	
evening set	-3610 Feb 17 j 04:11	15°♒31'11	
conjunction	-3610 Mar 05 j 14:57	16°♒27'22	-0°48'33
minimum elong	-3610 Mar 05 j 14:57	16°♒27'22	0°48'39
max. Earth dist.	-3610 Mar 06 j 01:22	16°♒28'51	20.78475 AU
morning rise	-3610 Mar 22 j 05:06	17°♒24'02	
retrograde	-3610 Jun 25 j 00:25	20°♒33'50	
opposition	-3610 Sep 09 j 17:04	18°♒33'21	-0°53'39
min. Earth dist.	-3610 Sep 09 j 08:23	18°♒34'15	18.76013 AU
direct	-3610 Nov 23 j 06:40	16°♒35'14	
evening set	-3609 Feb 21 j 15:31	19°♒37'27	
conjunction	-3609 Mar 10 j 03:15	20°♒33'53	-0°48'22
minimum elong	-3609 Mar 10 j 03:15	20°♒33'53	0°48'27
max. Earth dist.	-3609 Mar 10 j 11:27	20°♒35'03	20.73427 AU
morning rise	-3609 Mar 26 j 18:13	21°♒30'47	
retrograde	-3609 Jun 29 j 10:25	24°♒40'57	
opposition	-3609 Sep 14 j 00:37	22°♒40'18	-0°53'19
min. Earth dist.	-3609 Sep 13 j 18:44	22°♒40'55	18.70779 AU
direct	-3609 Nov 27 j 13:07	20°♒41'48	
evening set	-3608 Feb 26 j 03:29	23°♒44'50	
conjunction	-3608 Mar 13 j 16:15	24°♒41'31	-0°47'55
minimum elong	-3608 Mar 13 j 16:15	24°♒41'31	0°48'01
max. Earth dist.	-3608 Mar 13 j 22:10	24°♒42'22	20.68038 AU
morning rise	-3608 Mar 30 j 08:04	25°♒38'39	
retrograde	-3608 Jul 02 j 23:24	28°♒49'12	
opposition	-3608 Sep 17 j 08:22	26°♒48'23	-0°52'42
min. Earth dist.	-3608 Sep 17 j 03:37	26°♒48'53	18.65232 AU
direct	-3608 Nov 30 j 22:01	24°♒49'30	
evening set	-3607 Mar 01 j 16:17	27°♒53'24	
conjunction	-3607 Mar 18 j 05:57	28°♒50'22	-0°47'13
minimum elong	-3607 Mar 18 j 05:57	28°♒50'22	0°47'17
max. Earth dist.	-3607 Mar 18 j 09:53	28°♒50'56	20.62349 AU
morning rise	-3607 Apr 03 j 22:24	29°♒47'43	
	-3607 Apr 07 j 14:10	0°♓	
retrograde	-3607 Jul 07 j 10:27	2°♓58'41	
opposition	-3607 Sep 21 j 16:29	0°♓57'42	-0°51'48
min. Earth dist.	-3607 Sep 21 j 14:18	0°♓57'56	18.59428 AU
	-3607 Oct 15 j 14:44	30°℞♒	
direct	-3607 Dec 05 j 05:27	28°♒58'25	
	-3606 Jan 23 j 15:37	0°♓	
evening set	-3606 Mar 06 j 05:45	2°♓03'16	
conjunction	-3606 Mar 22 j 20:18	3°♓00'29	-0°46'16
minimum elong	-3606 Mar 22 j 20:19	3°♓00'29	0°46'21
max. Earth dist.	-3606 Mar 22 j 21:55	3°♓00'43	20.56459 AU
morning rise	-3606 Apr 08 j 13:28	3°♓58'06	
retrograde	-3606 Jul 12 j 00:18	7°♓09'30	
opposition	-3606 Sep 26 j 00:58	5°♓08'21	-0°50'38
min. Earth dist.	-3606 Sep 25 j 23:47	5°♓08'29	18.53454 AU
direct	-3606 Dec 09 j 15:09	3°♓08'41	
evening set	-3605 Mar 10 j 19:56	6°♓14'31	
conjunction	-3605 Mar 27 j 11:23	7°♓12'02	-0°45'05
minimum elong	-3605 Mar 27 j 11:23	7°♓12'02	0°45'08
max. Earth dist.	-3605 Mar 27 j 11:19	7°♓12'01	20.50408 AU
morning rise	-3605 Apr 13 j 05:05	8°♓09'54	
retrograde	-3605 Jul 16 j 12:37	11°♓21'46	
opposition	-3605 Sep 30 j 10:02	9°♓20'29	-0°49'11

Attention, astronomical year style is used: The year -3605 in astronomical counting style is the year 3606 BCE in historical counting style.

min. Earth dist.	-3605 Sep 30 j 11:12	9°♓20'22	18.47345 AU
direct	-3605 Dec 13 j 23:34	7°♓20'27	
evening set	-3604 Mar 14 j 11:08	10°♓27'20	
conjunction	-3604 Mar 31 j 03:23	11°♓25'08	-0°43'38
minimum elong	-3604 Mar 31 j 03:23	11°♓25'08	0°43'41
max. Earth dist.	-3604 Mar 31 j 00:45	11°♓24'46	20.44264 AU
morning rise	-3604 Apr 16 j 21:42	12°♓23'15	
retrograde	-3604 Jul 20 j 03:46	15°♓35'38	
opposition	-3604 Oct 03 j 19:24	13°♓34'14	-0°47'28
min. Earth dist.	-3604 Oct 03 j 21:40	13°♓34'00	18.41162 AU
direct	-3604 Dec 17 j 10:25	11°♓33'50	
evening set	-3603 Mar 19 j 03:13	14°♓41'51	
conjunction	-3603 Apr 04 j 20:15	15°♓39'57	-0°41'57
minimum elong	-3603 Apr 04 j 20:15	15°♓39'57	0°42'00
max. Earth dist.	-3603 Apr 04 j 16:07	15°♓39'21	20.38046 AU
morning rise	-3603 Apr 21 j 14:55	16°♓38'19	
retrograde	-3603 Jul 24 j 17:31	19°♓51'13	
opposition	-3603 Oct 08 j 05:33	17°♓49'45	-0°45'28
min. Earth dist.	-3603 Oct 08 j 10:02	17°♓49'17	18.34922 AU
direct	-3603 Dec 21 j 19:54	15°♓49'01	
evening set	-3602 Mar 23 j 20:03	18°♓58'12	
conjunction	-3602 Apr 09 j 13:42	19°♓56'36	-0°40'02
minimum elong	-3602 Apr 09 j 13:42	19°♓56'36	0°40'03
max. Earth dist.	-3602 Apr 09 j 06:54	19°♓55'36	20.31802 AU
morning rise	-3602 Apr 26 j 08:53	20°♓55'13	
retrograde	-3602 Jul 29 j 10:11	24°♓08'41	
opposition	-3602 Oct 12 j 16:15	22°♓07'10	-0°43'13
min. Earth dist.	-3602 Oct 12 j 21:59	22°♓06'33	18.28662 AU
direct	-3602 Dec 26 j 08:01	20°♓06'06	
evening set	-3601 Mar 28 j 13:59	23°♓16'31	
conjunction	-3601 Apr 14 j 08:22	24°♓15'13	-0°37'52
minimum elong	-3601 Apr 14 j 08:22	24°♓15'13	0°37'54
max. Earth dist.	-3601 Apr 14 j 00:12	24°♓14'01	20.25517 AU
morning rise	-3601 May 01 j 03:42	25°♓14'06	
retrograde	-3601 Aug 03 j 01:34	28°♓28'07	
opposition	-3601 Oct 17 j 03:33	26°♓26'35	-0°40'42
min. Earth dist.	-3601 Oct 17 j 11:35	26°♓25'43	18.22355 AU
direct	-3601 Dec 30 j 19:03	24°♓25'12	
evening set	-3600 Apr 01 j 09:04	27°♓36'53	
conjunction	-3600 Apr 18 j 03:53	28°♓35'52	-0°35'28
minimum elong	-3600 Apr 18 j 03:53	28°♓35'52	0°35'28
max. Earth dist.	-3600 Apr 17 j 16:33	28°♓34'12	20.19195 AU
morning rise	-3600 May 04 j 23:36	29°♓35'01	
	-3600 May 12 j 07:22	0°♈	
retrograde	-3600 Aug 06 j 19:30	2°♈49'37	
opposition	-3600 Oct 20 j 15:37	0°♈48'02	-0°37'55
min. Earth dist.	-3600 Oct 21 j 01:20	0°♈47'00	18.16004 AU
	-3600 Nov 08 j 20:52	30°♑♓	
direct	-3599 Jan 03 j 08:42	28°♓46'19	
	-3599 Feb 26 j 13:17	0°♈	
evening set	-3599 Apr 06 j 04:59	1°♈59'18	
max. Earth dist.	-3599 Apr 22 j 11:40	2°♈56'43	20.12796 AU
conjunction	-3599 Apr 23 j 00:21	2°♈58'35	-0°32'50
minimum elong	-3599 Apr 23 j 00:21	2°♈58'35	0°32'50
morning rise	-3599 May 09 j 19:59	3°♈57'59	
retrograde	-3599 Aug 11 j 12:11	7°♈13'09	
opposition	-3599 Oct 25 j 04:28	5°♈11'32	-0°34'54
min. Earth dist.	-3599 Oct 25 j 16:21	5°♈10'15	18.09569 AU
direct	-3598 Jan 07 j 22:07	3°♈09'28	
evening set	-3598 Apr 11 j 01:57	6°♈23'43	

conjunction	-3598 Apr 27 j 21:32	7°♈23'18	-0°30'00
minimum elong	-3598 Apr 27 j 21:32	7°♈23'18	0°29'59
max. Earth dist.	-3598 Apr 27 j 05:26	7°♈20'54	20.06334 AU
morning rise	-3598 May 14 j 17:23	8°♈22'56	
retrograde	-3598 Aug 16 j 06:30	11°♈38'39	
opposition	-3598 Oct 29 j 18:00	9°♈36'57	-0°31'38
min. Earth dist.	-3598 Oct 30 j 07:43	9°♈35'28	18.03084 AU
direct	-3597 Jan 12 j 13:16	7°♈34'31	
evening set	-3597 Apr 15 j 23:38	10°♈50'03	
conjunction	-3597 May 02 j 19:43	11°♈49'55	-0°26'57
minimum elong	-3597 May 02 j 19:43	11°♈49'55	0°26'55
max. Earth dist.	-3597 May 02 j 02:24	11°♈47'20	19.99818 AU
morning rise	-3597 May 19 j 15:21	12°♈49'46	
retrograde	-3597 Aug 21 j 00:27	16°♈06'00	
opposition	-3597 Nov 03 j 08:20	14°♈04'13	-0°28'10
min. Earth dist.	-3597 Nov 03 j 23:55	14°♈02'32	17.96549 AU
direct	-3596 Jan 17 j 05:40	12°♈01'24	
evening set	-3596 Apr 19 j 22:25	15°♈18'12	
conjunction	-3596 May 06 j 18:30	16°♈18'19	-0°23'44
minimum elong	-3596 May 06 j 18:30	16°♈18'19	0°23'42
max. Earth dist.	-3596 May 05 j 21:47	16°♈15'13	19.93289 AU
morning rise	-3596 May 23 j 14:08	17°♈18'24	
retrograde	-3596 Aug 24 j 18:33	20°♈35'08	
opposition	-3596 Nov 06 j 23:17	18°♈33'15	-0°24'30
min. Earth dist.	-3596 Nov 07 j 16:47	18°♈31'21	17.90046 AU
direct	-3595 Jan 20 j 22:33	16°♈30'00	
evening set	-3595 Apr 24 j 21:45	19°♈48'04	
conjunction	-3595 May 11 j 18:06	20°♈48'26	-0°20'20
minimum elong	-3595 May 11 j 18:06	20°♈48'26	0°20'17
max. Earth dist.	-3595 May 10 j 20:36	20°♈45'12	19.86817 AU
morning rise	-3595 May 28 j 13:19	21°♈48'43	
retrograde	-3595 Aug 29 j 13:43	25°♈05'56	
opposition	-3595 Nov 11 j 15:02	23°♈03'56	-0°20'39
min. Earth dist.	-3595 Nov 12 j 09:50	23°♈01'53	17.83627 AU
direct	-3594 Jan 25 j 17:30	21°♈00'16	
evening set	-3594 Apr 29 j 21:46	24°♈19'33	
conjunction	-3594 May 16 j 17:58	25°♈20'10	-0°16'49
minimum elong	-3594 May 16 j 17:58	25°♈20'10	0°16'45
max. Earth dist.	-3594 May 15 j 17:35	25°♈16'29	19.80477 AU
morning rise	-3594 Jun 02 j 12:59	26°♈20'38	
retrograde	-3594 Sep 03 j 08:14	29°♈38'20	
opposition	-3594 Nov 16 j 07:28	27°♈36'12	-0°16'40
min. Earth dist.	-3594 Nov 17 j 04:04	27°♈33'58	17.77389 AU
direct	-3593 Jan 30 j 12:14	25°♈32'07	
evening set	-3593 May 04 j 22:29	28°♈52'38	
conjunction	-3593 May 21 j 18:44	29°♈53'28	-0°13'10
minimum elong	-3593 May 21 j 18:44	29°♈53'28	0°13'06
behind sun begin	-3593 May 21 j 14:50	29°♈52'53	
behind sun end	-3593 May 21 j 22:38	29°♈54'03	
max. Earth dist.	-3593 May 20 j 17:57	29°♈49'43	19.74343 AU
	-3593 May 23 j 13:47	0°♉	
morning rise	-3593 Jun 07 j 13:11	0°♉54'06	
retrograde	-3593 Sep 08 j 04:38	4°♉12'14	
opposition	-3593 Nov 21 j 00:30	2°♉10'01	-0°12'33
min. Earth dist.	-3593 Nov 21 j 21:53	2°♉07'41	17.71383 AU
direct	-3592 Feb 04 j 09:06	0°♉05'32	
evening set	-3592 May 09 j 00:02	3°♉27'14	
conjunction	-3592 May 25 j 19:53	4°♉28'16	-0°09'25
minimum elong	-3592 May 25 j 19:54	4°♉28'16	0°09'20
behind sun begin	-3592 May 25 j 14:15	4°♉27'26	
behind sun end	-3592 May 26 j 01:33	4°♉29'06	

Attention, astronomical year style is used: The year -3592 in astronomical counting style is the year 3593 BCE in historical counting style.

max. Earth dist.	-3592 May 24 j 16:46	4°♉24'08	19.68484 AU
morning rise	-3592 Jun 11 j 13:53	5°♉29'04	
retrograde	-3592 Sep 12 j 00:18	8°♉47'37	
opposition	-3592 Nov 24 j 18:28	6°♉45'19	-0°08'19
min. Earth dist.	-3592 Nov 25 j 17:28	6°♉42'48	17.65705 AU
direct	-3591 Feb 08 j 05:07	4°♉40'27	
evening set	-3591 May 14 j 01:51	8°♉03'19	
conjunction	-3591 May 30 j 21:27	9°♉04'32	-0°05'36
minimum elong	-3591 May 30 j 21:28	9°♉04'32	0°05'32
behind sun begin	-3591 May 30 j 14:57	9°♉03'34	
behind sun end	-3591 May 31 j 03:59	9°♉05'30	
max. Earth dist.	-3591 May 29 j 18:16	9°♉00'23	19.62983 AU
morning rise	-3591 Jun 16 j 14:43	10°♉05'28	
retrograde	-3591 Sep 16 j 22:11	13°♉24'27	
opposition	-3591 Nov 29 j 13:07	11°♉22'05	-0°04'02
min. Earth dist.	-3591 Nov 30 j 12:09	11°♉19'34	17.60404 AU
direct	-3590 Feb 13 j 03:18	9°♉16'55	
evening set	-3590 May 19 j 04:25	12°♉40'54	
conjunction	-3590 Jun 04 j 23:29	13°♉42'16	-0°01'42
minimum elong	-3590 Jun 04 j 23:30	13°♉42'16	0°01'37
behind sun begin	-3590 Jun 04 j 16:43	13°♉41'16	
behind sun end	-3590 Jun 05 j 06:17	13°♉43'17	
max. Earth dist.	-3590 Jun 03 j 18:42	13°♉37'51	19.57894 AU
morning rise	-3590 Jun 21 j 16:03	14°♉43'20	
	-3590 Jun 26 j 08:08	15°♉	
retrograde	-3590 Sep 21 j 19:14	18°♉02'43	
asc. node	-3590 Nov 07 j 07:41	17°♉07'16	
opposition	-3590 Dec 04 j 08:30	16°♉00'20	0°00'19
min. Earth dist.	-3590 Dec 05 j 09:00	15°♉57'40	17.55554 AU
	-3590 Dec 28 j 08:59	15°℞♉	
direct	-3589 Feb 18 j 00:17	13°♉54'53	
	-3589 Apr 09 j 13:15	15°♉	
evening set	-3589 May 24 j 07:27	17°♉19'57	
max. Earth dist.	-3589 Jun 08 j 21:09	18°♉17'02	19.53275 AU
conjunction	-3589 Jun 10 j 02:06	18°♉21'29	0°02'20
minimum elong	-3589 Jun 10 j 02:05	18°♉21'29	0°02'26
behind sun begin	-3589 Jun 09 j 19:19	18°♉20'28	
behind sun end	-3589 Jun 10 j 08:51	18°♉22'30	
morning rise	-3589 Jun 26 j 17:48	19°♉22'39	
retrograde	-3589 Sep 26 j 18:28	22°♉42'24	
opposition	-3589 Dec 09 j 04:39	20°♉40'04	0°04'42
min. Earth dist.	-3589 Dec 10 j 04:49	20°♉37'25	17.51163 AU
direct	-3588 Feb 22 j 23:46	18°♉34'24	
evening set	-3588 May 28 j 11:03	22°♉00'30	
max. Earth dist.	-3588 Jun 12 j 23:12	22°♉57'33	19.49115 AU
conjunction	-3588 Jun 14 j 04:59	23°♉02'09	0°06'15
minimum elong	-3588 Jun 14 j 04:58	23°♉02'09	0°06'22
behind sun begin	-3588 Jun 13 j 22:35	23°♉01'11	
behind sun end	-3588 Jun 14 j 11:21	23°♉03'07	
morning rise	-3588 Jun 30 j 19:43	24°♉03'23	
retrograde	-3588 Sep 30 j 16:35	27°♉23'31	
opposition	-3588 Dec 13 j 01:41	25°♉21'14	0°09'04
min. Earth dist.	-3588 Dec 14 j 03:18	25°♉18'26	17.47247 AU
direct	-3587 Feb 26 j 21:57	23°♉15'24	
evening set	-3587 Jun 02 j 15:02	26°♉42'29	
max. Earth dist.	-3587 Jun 18 j 02:08	27°♉39'34	19.45431 AU
conjunction	-3587 Jun 19 j 08:11	27°♉44'13	0°10'09
minimum elong	-3587 Jun 19 j 08:11	27°♉44'13	0°10'16
behind sun begin	-3587 Jun 19 j 02:52	27°♉43'25	
behind sun end	-3587 Jun 19 j 13:30	27°♉45'02	
morning rise	-3587 Jul 05 j 22:01	28°♉45'31	
	-3587 Jul 27 j 11:12	0°♊	

retrograde	-3587 Oct 05 j 16:57	2°♊06'00	
opposition	-3587 Dec 17 j 23:21	0°♊03'47	0°13'24
min. Earth dist.	-3587 Dec 19 j 00:25	0°♊01'03	17.43787 AU
	-3587 Dec 19 j 09:59	30°℞♉	
direct	-3586 Mar 03 j 23:09	27°♉57'49	
	-3586 May 13 j 17:42	0°♊	
evening set	-3586 Jun 07 j 19:16	1°♊25'46	
max. Earth dist.	-3586 Jun 23 j 05:26	2°♊22'53	19.42180 AU
conjunction	-3586 Jun 24 j 11:37	2°♊27'35	0°14'00
minimum elong	-3586 Jun 24 j 11:37	2°♊27'35	0°14'07
behind sun begin	-3586 Jun 24 j 08:27	2°♊27'06	
behind sun end	-3586 Jun 24 j 14:47	2°♊28'04	
morning rise	-3586 Jul 11 j 00:18	3°♊28'55	
retrograde	-3586 Oct 10 j 15:35	6°♊49'41	
opposition	-3586 Dec 22 j 21:56	4°♊47'34	0°17'40
min. Earth dist.	-3586 Dec 24 j 00:22	4°♊44'40	17.40757 AU
direct	-3585 Mar 08 j 22:36	2°♊41'28	
evening set	-3585 Jun 12 j 23:57	6°♊10'13	
max. Earth dist.	-3585 Jun 28 j 08:25	7°♊07'15	19.39358 AU
conjunction	-3585 Jun 29 j 15:16	7°♊12'04	0°17'46
minimum elong	-3585 Jun 29 j 15:16	7°♊12'04	0°17'54
morning rise	-3585 Jul 16 j 02:56	8°♊13'24	
retrograde	-3585 Oct 15 j 16:23	11°♊34'25	
opposition	-3585 Dec 27 j 20:59	9°♊32'21	0°21'49
min. Earth dist.	-3585 Dec 28 j 22:42	9°♊29'33	17.38140 AU
direct	-3584 Mar 13 j 01:35	7°♊26'09	
evening set	-3584 Jun 17 j 04:42	10°♊55'36	
conjunction	-3584 Jul 03 j 19:06	11°♊57'27	0°21'26
minimum elong	-3584 Jul 03 j 19:06	11°♊57'27	0°21'34
max. Earth dist.	-3584 Jul 02 j 12:48	11°♊52'43	19.36939 AU
morning rise	-3584 Jul 20 j 05:24	12°♊58'45	
retrograde	-3584 Oct 19 j 15:24	16°♊19'58	
opposition	-3584 Dec 31 j 20:57	14°♊17'58	0°25'51
min. Earth dist.	-3583 Jan 01 j 23:39	14°♊15'04	17.35937 AU
direct	-3583 Mar 18 j 02:38	12°♊11'41	
evening set	-3583 Jun 22 j 09:23	15°♊41'40	
conjunction	-3583 Jul 08 j 22:32	16°♊43'30	0°24'58
minimum elong	-3583 Jul 08 j 22:32	16°♊43'30	0°25'05
max. Earth dist.	-3583 Jul 07 j 15:37	16°♊38'39	19.34954 AU
morning rise	-3583 Jul 25 j 07:47	17°♊44'45	
retrograde	-3583 Oct 24 j 15:56	21°♊06'08	
opposition	-3582 Jan 05 j 21:13	19°♊04'10	0°29'42
min. Earth dist.	-3582 Jan 06 j 22:55	19°♊01'22	17.34172 AU
direct	-3582 Mar 23 j 07:11	16°♊57'47	
evening set	-3582 Jun 27 j 13:58	20°♊28'13	
max. Earth dist.	-3582 Jul 12 j 20:36	21°♊25'21	19.33409 AU
conjunction	-3582 Jul 14 j 02:08	21°♊30'00	0°28'19
minimum elong	-3582 Jul 14 j 02:08	21°♊30'00	0°28'28
morning rise	-3582 Jul 30 j 09:58	22°♊31'11	
retrograde	-3582 Oct 29 j 14:42	25°♊52'38	
opposition	-3581 Jan 10 j 21:57	23°♊50'42	0°33'20
min. Earth dist.	-3581 Jan 12 j 00:09	23°♊47'51	17.32860 AU
direct	-3581 Mar 28 j 09:47	21°♊44'16	
evening set	-3581 Jul 02 j 18:31	25°♊15'00	
max. Earth dist.	-3581 Jul 17 j 23:21	26°♊11'59	19.32346 AU
conjunction	-3581 Jul 19 j 05:20	26°♊16'42	0°31'29
minimum elong	-3581 Jul 19 j 05:19	26°♊16'42	0°31'37
morning rise	-3581 Aug 04 j 12:03	27°♊17'48	
	-3581 Sep 27 j 02:21	0°♋	
retrograde	-3581 Nov 03 j 14:57	0°♋39'17	
	-3581 Dec 12 j 02:52	30°℞♊	

Attention, astronomical year style is used: The year -3580 in astronomical counting style is the year 3581 BCE in historical counting style.

opposition	-3580 Jan 15 j 23:05	28°♊37'22	0°36'45
min. Earth dist.	-3580 Jan 17 j 00:06	28°♊34'39	17.32052 AU
direct	-3580 Apr 01 j 15:18	26°♊30'52	
evening set	-3580 Jul 06 j 22:28	0°♋01'48	
	-3580 Jul 06 j 10:47	0°♋	
max. Earth dist.	-3580 Jul 22 j 04:23	0°♋59'00	19.31796 AU
conjunction	-3580 Jul 23 j 08:11	1°♋03'23	0°34'25
minimum elong	-3580 Jul 23 j 08:11	1°♋03'23	0°34'34
morning rise	-3580 Aug 08 j 13:26	2°♋04'22	
retrograde	-3580 Nov 07 j 13:48	5°♋25'49	
opposition	-3579 Jan 20 j 00:40	3°♋23'56	0°39'54
min. Earth dist.	-3579 Jan 21 j 01:19	3°♋21'16	17.31772 AU
direct	-3579 Apr 06 j 19:14	1°♋17'25	
evening set	-3579 Jul 12 j 02:11	4°♋48'23	
max. Earth dist.	-3579 Jul 27 j 06:49	5°♋45'29	19.31808 AU
conjunction	-3579 Jul 28 j 10:27	5°♋49'50	0°37'07
minimum elong	-3579 Jul 28 j 10:27	5°♋49'50	0°37'16
morning rise	-3579 Aug 13 j 14:35	6°♋50'41	
retrograde	-3579 Nov 12 j 13:35	10°♋12'04	
opposition	-3578 Jan 25 j 02:17	8°♋10'12	0°42'46
min. Earth dist.	-3578 Jan 26 j 01:33	8°♋07'42	17.32088 AU
direct	-3578 Apr 11 j 23:34	6°♋03'42	
evening set	-3578 Jul 17 j 05:12	9°♋34'36	
max. Earth dist.	-3578 Aug 01 j 11:19	10°♋31'57	19.32426 AU
conjunction	-3578 Aug 02 j 12:20	10°♋35'54	0°39'33
minimum elong	-3578 Aug 02 j 12:20	10°♋35'54	0°39'41
morning rise	-3578 Aug 18 j 15:05	11°♋36'35	
retrograde	-3578 Nov 17 j 13:20	14°♋57'51	
opposition	-3577 Jan 30 j 04:16	12°♋56'03	0°45'20
min. Earth dist.	-3577 Jan 31 j 02:16	12°♋53'40	17.33007 AU
direct	-3577 Apr 17 j 03:43	10°♋49'36	
evening set	-3577 Jul 22 j 07:54	14°♋20'20	
conjunction	-3577 Aug 07 j 13:33	15°♋21'27	0°41'43
minimum elong	-3577 Aug 07 j 13:33	15°♋21'27	0°41'52
max. Earth dist.	-3577 Aug 06 j 13:19	15°♋17'37	19.33665 AU
morning rise	-3577 Aug 23 j 15:06	16°♋21'58	
retrograde	-3577 Nov 22 j 12:38	19°♋43'04	
opposition	-3576 Feb 04 j 06:20	17°♋41'20	0°47'36
min. Earth dist.	-3576 Feb 05 j 02:51	17°♋39'08	17.34576 AU
direct	-3576 Apr 21 j 06:23	15°♋35'02	
evening set	-3576 Jul 26 j 09:52	19°♋05'28	
conjunction	-3576 Aug 11 j 14:20	20°♋06'23	0°43'36
minimum elong	-3576 Aug 11 j 14:20	20°♋06'23	0°43'43
max. Earth dist.	-3576 Aug 10 j 16:53	20°♋03'00	19.35559 AU
morning rise	-3576 Aug 27 j 14:34	21°♋06'42	
retrograde	-3576 Nov 26 j 13:18	24°♋27'37	
opposition	-3575 Feb 08 j 08:34	22°♋26'01	0°49'31
min. Earth dist.	-3575 Feb 09 j 03:03	22°♋24'01	17.36773 AU
direct	-3575 Apr 26 j 10:49	20°♋19'55	
evening set	-3575 Jul 31 j 11:11	23°♋49'57	
conjunction	-3575 Aug 16 j 14:16	24°♋50'39	0°45'10
minimum elong	-3575 Aug 16 j 14:16	24°♋50'39	0°45'18
max. Earth dist.	-3575 Aug 15 j 18:14	24°♋47'29	19.38069 AU
morning rise	-3575 Sep 01 j 13:23	25°♋50'46	
retrograde	-3575 Dec 01 j 11:36	29°♋11'28	
opposition	-3574 Feb 13 j 10:48	27°♋09'59	0°51'06
min. Earth dist.	-3574 Feb 14 j 04:01	27°♋08'09	17.39581 AU
direct	-3574 May 01 j 12:42	25°♋04'08	
evening set	-3574 Aug 05 j 11:53	28°♋33'41	
conjunction	-3574 Aug 21 j 13:46	29°♋34'09	0°46'27
minimum elong	-3574 Aug 21 j 13:46	29°♋34'09	0°46'34
max. Earth dist.	-3574 Aug 20 j 20:14	29°♋31'23	19.41160 AU
	-3574 Aug 28 j 09:32	0°♌	
morning rise	-3574 Sep 06 j 11:43	0°♌34'02	
retrograde	-3574 Dec 06 j 11:54	3°♌54'29	
opposition	-3573 Feb 18 j 12:51	1°♌53'10	0°52'21
min. Earth dist.	-3573 Feb 19 j 03:42	1°♌51'35	17.42917 AU
	-3573 Apr 14 j 16:57	30°℞♋	
direct	-3573 May 06 j 17:33	29°♋47'37	
	-3573 May 28 j 11:40	0°♌	
evening set	-3573 Aug 10 j 12:00	3°♌16'33	
conjunction	-3573 Aug 26 j 12:35	4°♌16'46	0°47'24
minimum elong	-3573 Aug 26 j 12:35	4°♌16'46	0°47'31
max. Earth dist.	-3573 Aug 25 j 20:51	4°♌14'17	19.44745 AU
morning rise	-3573 Sep 11 j 09:25	5°♌16'25	
retrograde	-3573 Dec 11 j 09:04	8°♌36'36	
opposition	-3572 Feb 23 j 15:09	6°♌35'25	0°53'13
min. Earth dist.	-3572 Feb 24 j 04:59	6°♌33'57	17.46737 AU
direct	-3572 May 10 j 19:26	4°♌30'11	
evening set	-3572 Aug 14 j 11:12	7°♌58'25	
conjunction	-3572 Aug 30 j 10:34	8°♌58'21	0°48'02
minimum elong	-3572 Aug 30 j 10:34	8°♌58'21	0°48'09
max. Earth dist.	-3572 Aug 29 j 20:58	8°♌56'12	19.48783 AU
morning rise	-3572 Sep 15 j 06:24	9°♌57'45	
retrograde	-3572 Dec 15 j 08:20	13°♌17'36	
opposition	-3571 Feb 27 j 17:11	11°♌16'34	0°53'44
min. Earth dist.	-3571 Feb 28 j 04:15	11°♌15'24	17.50960 AU
direct	-3571 May 16 j 00:22	9°♌11'40	
evening set	-3571 Aug 19 j 09:42	12°♌39'05	
conjunction	-3571 Sep 04 j 07:56	13°♌38'44	0°48'21
minimum elong	-3571 Sep 04 j 07:56	13°♌38'44	0°48'26
max. Earth dist.	-3571 Sep 03 j 20:33	13°♌36'57	19.53187 AU
morning rise	-3571 Sep 20 j 02:45	14°♌37'54	
	-3571 Sep 26 j 04:19	15°♌	
retrograde	-3571 Dec 20 j 04:22	17°♌57'22	
opposition	-3570 Mar 04 j 18:57	15°♌56'28	0°53'54
min. Earth dist.	-3570 Mar 05 j 05:12	15°♌55'23	17.55537 AU
	-3570 Mar 27 j 22:12	15°℞♌	
direct	-3570 May 21 j 01:30	13°♌51'53	
	-3570 Jul 11 j 23:40	15°♌	
evening set	-3570 Aug 24 j 07:26	17°♌18'24	
conjunction	-3570 Sep 09 j 04:31	18°♌17'46	0°48'20
minimum elong	-3570 Sep 09 j 04:31	18°♌17'46	0°48'26
max. Earth dist.	-3570 Sep 08 j 18:44	18°♌16'14	19.57922 AU
morning rise	-3570 Sep 24 j 22:32	19°♌16'41	
retrograde	-3570 Dec 25 j 02:40	22°♌35'44	
opposition	-3569 Mar 09 j 20:24	20°♌34'56	0°53'42
min. Earth dist.	-3569 Mar 10 j 03:44	20°♌34'10	17.60402 AU
direct	-3569 May 26 j 05:14	18°♌30'41	
evening set	-3569 Aug 29 j 04:07	21°♌56'13	
conjunction	-3569 Sep 14 j 00:14	22°♌55'17	0°48'01
minimum elong	-3569 Sep 14 j 00:14	22°♌55'17	0°48'06
max. Earth dist.	-3569 Sep 13 j 17:03	22°♌54'10	19.62916 AU
morning rise	-3569 Sep 29 j 17:18	23°♌53'56	
retrograde	-3569 Dec 29 j 21:42	27°♌12'33	
opposition	-3568 Mar 13 j 21:41	25°♌11'51	0°53'09
min. Earth dist.	-3568 Mar 14 j 04:04	25°♌11'10	17.65522 AU
direct	-3568 May 30 j 05:43	23°♌07'56	
evening set	-3568 Sep 01 j 23:59	26°♌32'22	
conjunction	-3568 Sep 17 j 19:02	27°♌31'08	0°47'23
minimum elong	-3568 Sep 17 j 19:02	27°♌31'08	0°47'28

Attention, astronomical year style is used: The year -3568 in astronomical counting style is the year 3569 BCE in historical counting style.

max. Earth dist.	-3568 Sep 17 j 13:17	27°♌30'15	19.68165 AU
morning rise	-3568 Oct 03 j 11:31	28°♌29'32	
	-3568 Oct 30 j 00:22	0°♍	
retrograde	-3567 Jan 02 j 18:45	1°♍47'40	
	-3567 Mar 13 j 17:55	30°℞♌	
opposition	-3567 Mar 18 j 22:16	29°♌47'02	0°52'15
min. Earth dist.	-3567 Mar 19 j 01:35	29°♌46'41	17.70880 AU
direct	-3567 Jun 04 j 07:30	27°♌43'26	
	-3567 Aug 18 j 15:22	0°♍	
evening set	-3567 Sep 06 j 18:38	1°♍06'43	
conjunction	-3567 Sep 22 j 12:56	2°♍05'12	0°46'27
minimum elong	-3567 Sep 22 j 12:57	2°♍05'12	0°46'32
max. Earth dist.	-3567 Sep 22 j 10:12	2°♍04'46	19.73635 AU
morning rise	-3567 Oct 08 j 04:41	3°♍03'20	
retrograde	-3566 Jan 07 j 12:45	6°♍20'57	
opposition	-3566 Mar 23 j 22:26	4°♍20'22	0°51'03
min. Earth dist.	-3566 Mar 24 j 00:38	4°♍20'08	17.76458 AU
direct	-3566 Jun 09 j 06:39	2°♍17'06	
evening set	-3566 Sep 11 j 12:27	5°♍39'11	
conjunction	-3566 Sep 27 j 05:47	6°♍37'21	0°45'14
minimum elong	-3566 Sep 27 j 05:47	6°♍37'21	0°45'17
max. Earth dist.	-3566 Sep 27 j 04:25	6°♍37'08	19.79335 AU
morning rise	-3566 Oct 12 j 21:07	7°♍35'14	
retrograde	-3565 Jan 12 j 08:17	10°♍52'19	
opposition	-3565 Mar 28 j 21:48	8°♍51'47	0°49'31
min. Earth dist.	-3565 Mar 28 j 20:51	8°♍51'53	17.82272 AU
direct	-3565 Jun 14 j 06:17	6°♍48'50	
evening set	-3565 Sep 16 j 05:09	10°♍09'41	
conjunction	-3565 Oct 01 j 21:52	11°♍07'34	0°43'45
minimum elong	-3565 Oct 01 j 21:52	11°♍07'34	0°43'48
max. Earth dist.	-3565 Oct 01 j 23:54	11°♍07'53	19.85269 AU
morning rise	-3565 Oct 17 j 12:34	12°♍05'11	
retrograde	-3564 Jan 17 j 01:11	15°♍21'43	
opposition	-3564 Apr 01 j 20:49	13°♍21'15	0°47'42
min. Earth dist.	-3564 Apr 01 j 18:18	13°♍21'30	17.88331 AU
direct	-3564 Jun 18 j 03:46	11°♍18'40	
evening set	-3564 Sep 19 j 20:54	14°♍38'14	
conjunction	-3564 Oct 05 j 12:47	15°♍35'49	0°42'00
minimum elong	-3564 Oct 05 j 12:47	15°♍35'49	0°42'02
max. Earth dist.	-3564 Oct 05 j 16:16	15°♍36'21	19.91461 AU
morning rise	-3564 Oct 21 j 03:17	16°♍33'11	
retrograde	-3563 Jan 20 j 19:57	19°♍49'12	
opposition	-3563 Apr 06 j 19:00	17°♍48'47	0°45'37
min. Earth dist.	-3563 Apr 06 j 13:19	17°♍49'23	17.94649 AU
direct	-3563 Jun 23 j 01:09	15°♍46'36	
evening set	-3563 Sep 24 j 11:41	19°♍04'54	
conjunction	-3563 Oct 10 j 03:09	20°♍02'12	0°40'02
minimum elong	-3563 Oct 10 j 03:09	20°♍02'12	0°40'03
max. Earth dist.	-3563 Oct 10 j 10:05	20°♍03'16	19.97892 AU
morning rise	-3563 Oct 25 j 17:10	20°♍59'19	
retrograde	-3562 Jan 25 j 11:53	24°♍14'47	
opposition	-3562 Apr 11 j 16:24	22°♍14'30	0°43'17
min. Earth dist.	-3562 Apr 11 j 09:03	22°♍15'15	18.01184 AU
direct	-3562 Jun 27 j 20:48	20°♍12'44	
evening set	-3562 Sep 29 j 01:44	23°♍29'46	
conjunction	-3562 Oct 14 j 16:32	24°♍26'47	0°37'50
minimum elong	-3562 Oct 14 j 16:32	24°♍26'47	0°37'51
max. Earth dist.	-3562 Oct 15 j 00:42	24°♍28'02	20.04533 AU
morning rise	-3562 Oct 30 j 06:31	25°♍23'40	
retrograde	-3561 Jan 30 j 05:48	28°♍38'37	
opposition	-3561 Apr 16 j 13:16	26°♍38'26	0°40'42
min. Earth dist.	-3561 Apr 16 j 03:08	26°♍39'29	18.07911 AU
direct	-3561 Jul 02 j 16:32	24°♍37'08	
evening set	-3561 Oct 03 j 14:39	27°♍52'54	
conjunction	-3561 Oct 19 j 05:11	28°♍49'38	0°35'26
minimum elong	-3561 Oct 19 j 05:11	28°♍49'38	0°35'26
max. Earth dist.	-3561 Oct 19 j 16:45	28°♍51'24	20.11324 AU
morning rise	-3561 Nov 03 j 18:52	29°♍46'18	
	-3561 Nov 07 j 15:32	0°♎	
retrograde	-3560 Feb 03 j 21:08	3°♎00'44	
opposition	-3560 Apr 20 j 09:33	1°♎00'42	0°37'54
min. Earth dist.	-3560 Apr 19 j 21:38	1°♎01'55	18.14744 AU
	-3560 May 16 j 07:33	30°℞♍	
direct	-3560 Jul 06 j 11:04	28°♍59'52	
	-3560 Aug 24 j 08:53	0°♎	
evening set	-3560 Oct 07 j 03:03	2°♎14'22	
conjunction	-3560 Oct 22 j 17:04	3°♎10'50	0°32'50
minimum elong	-3560 Oct 22 j 17:04	3°♎10'50	0°32'51
max. Earth dist.	-3560 Oct 23 j 05:38	3°♎12'45	20.18194 AU
morning rise	-3560 Nov 07 j 06:53	4°♎07'17	
retrograde	-3559 Feb 07 j 13:40	7°♎21'12	
opposition	-3559 Apr 25 j 04:59	5°♎21'18	0°34'55
min. Earth dist.	-3559 Apr 24 j 14:56	5°♎22'44	18.21634 AU
direct	-3559 Jul 11 j 05:06	3°♎20'55	
evening set	-3559 Oct 11 j 14:29	6°♎34'10	
conjunction	-3559 Oct 27 j 04:26	7°♎30'24	0°30'04
minimum elong	-3559 Oct 27 j 04:26	7°♎30'24	0°30'03
max. Earth dist.	-3559 Oct 27 j 19:58	7°♎32'45	20.25067 AU
morning rise	-3559 Nov 11 j 18:07	8°♎26'38	
retrograde	-3558 Feb 12 j 04:01	11°♎40'03	
opposition	-3558 Apr 29 j 23:48	9°♎40'17	0°31'44
min. Earth dist.	-3558 Apr 29 j 08:06	9°♎41'53	18.28471 AU
direct	-3558 Jul 15 j 22:37	7°♎40'22	
evening set	-3558 Oct 16 j 01:23	10°♎52'22	
conjunction	-3558 Oct 31 j 14:56	11°♎48'21	0°27'09
minimum elong	-3558 Oct 31 j 14:56	11°♎48'21	0°27'07
max. Earth dist.	-3558 Nov 01 j 07:10	11°♎50'48	20.31857 AU
morning rise	-3558 Nov 16 j 04:52	12°♎44'22	
retrograde	-3557 Feb 16 j 18:36	15°♎57'18	
opposition	-3557 May 04 j 18:00	13°♎57'39	0°28'24
min. Earth dist.	-3557 May 04 j 00:44	13°♎59'24	18.35205 AU
direct	-3557 Jul 20 j 14:58	11°♎58'08	
evening set	-3557 Oct 20 j 11:29	15°♎08'56	
conjunction	-3557 Nov 05 j 01:05	16°♎04'41	0°24'05
minimum elong	-3557 Nov 05 j 01:05	16°♎04'41	0°24'03
max. Earth dist.	-3557 Nov 05 j 19:55	16°♎07'30	20.38503 AU
morning rise	-3557 Nov 20 j 15:02	17°♎00'30	
retrograde	-3556 Feb 21 j 08:15	20°♎12'55	
opposition	-3556 May 08 j 11:27	18°♎13'23	0°24'55
min. Earth dist.	-3556 May 07 j 16:35	18°♎15'17	18.41749 AU
direct	-3556 Jul 24 j 07:13	16°♎14'16	
evening set	-3556 Oct 23 j 21:02	19°♎23'50	
conjunction	-3556 Nov 08 j 10:27	20°♎19'22	0°20'55
minimum elong	-3556 Nov 08 j 10:27	20°♎19'22	0°20'52
max. Earth dist.	-3556 Nov 09 j 05:40	20°♎22'14	20.44932 AU
morning rise	-3556 Nov 24 j 00:50	21°♎15'01	
retrograde	-3555 Feb 24 j 20:48	24°♎26'56	
min. Earth dist.	-3555 May 12 j 08:22	22°♎29'27	18.48060 AU
opposition	-3555 May 13 j 04:12	22°♎27'27	0°21'20
direct	-3555 Jul 28 j 21:28	20°♎28'40	
evening set	-3555 Oct 28 j 05:51	23°♎37'04	

Attention, astronomical year style is used: The year -3555 in astronomical counting style is the year 3556 BCE in historical counting style.

conjunction	-3555 Nov 12 j 19:29	24°♎32'23	0°17'38
minimum elong	-3555 Nov 12 j 19:29	24°♎32'24	0°17'35
max. Earth dist.	-3555 Nov 13 j 16:52	24°♎35'35	20.51097 AU
morning rise	-3555 Nov 28 j 10:01	25°♎27'52	
retrograde	-3554 Mar 01 j 09:23	28°♎39'17	
opposition	-3554 May 17 j 19:58	26°♎39'50	0°17'39
min. Earth dist.	-3554 May 16 j 22:37	26°♎41'59	18.54074 AU
direct	-3554 Aug 02 j 12:23	24°♎41'22	
evening set	-3554 Nov 01 j 14:08	27°♎48'36	
conjunction	-3554 Nov 17 j 03:43	28°♎43'44	0°14'18
minimum elong	-3554 Nov 17 j 03:43	28°♎43'44	0°14'14
behind sun begin	-3554 Nov 17 j 00:26	28°♎43'15	
behind sun end	-3554 Nov 17 j 07:00	28°♎44'12	
max. Earth dist.	-3554 Nov 18 j 01:21	28°♎46'56	20.56967 AU
morning rise	-3554 Dec 02 j 18:49	29°♎39'03	
	-3554 Dec 08 j 20:56	0°♏	
retrograde	-3553 Mar 05 j 20:21	2°♏49'58	
opposition	-3553 May 22 j 11:13	0°♏50'31	0°13'54
min. Earth dist.	-3553 May 21 j 13:15	0°♏52'44	18.59810 AU
	-3553 Jun 13 j 02:10	30°℞♎	
direct	-3553 Aug 07 j 00:35	28°♎52'19	
	-3553 Sep 28 j 03:46	0°♏	
evening set	-3553 Nov 05 j 21:29	1°♏58'25	
conjunction	-3553 Nov 21 j 11:26	2°♏53'22	0°10'55
minimum elong	-3553 Nov 21 j 11:26	2°♏53'22	0°10'51
behind sun begin	-3553 Nov 21 j 06:24	2°♏52'38	
behind sun end	-3553 Nov 21 j 16:28	2°♏54'05	
max. Earth dist.	-3553 Nov 22 j 11:13	2°♏56'53	20.62561 AU
morning rise	-3553 Dec 07 j 02:51	3°♏48'33	
retrograde	-3552 Mar 09 j 07:51	6°♏58'58	
min. Earth dist.	-3552 May 25 j 01:55	5°♏01'53	18.65264 AU
opposition	-3552 May 26 j 01:34	4°♏59'30	0°10'07
direct	-3552 Aug 10 j 13:52	3°♏01'33	
evening set	-3552 Nov 09 j 04:30	6°♏06'34	
conjunction	-3552 Nov 24 j 18:33	7°♏01'20	0°07'30
minimum elong	-3552 Nov 24 j 18:33	7°♏01'21	0°07'24
behind sun begin	-3552 Nov 24 j 12:34	7°♏00'29	
behind sun end	-3552 Nov 25 j 00:33	7°♏02'12	
max. Earth dist.	-3552 Nov 25 j 18:39	7°♏04'53	20.67885 AU
morning rise	-3552 Dec 10 j 10:40	7°♏56'24	
retrograde	-3551 Mar 13 j 17:51	11°♏06'21	
opposition	-3551 May 30 j 15:04	9°♏06'52	0°06'18
min. Earth dist.	-3551 May 29 j 15:02	9°♏09'17	18.70481 AU
direct	-3551 Aug 15 j 00:18	7°♏09'08	
evening set	-3551 Nov 13 j 10:49	10°♏13'09	
conjunction	-3551 Nov 29 j 01:22	11°♏07'47	0°04'04
minimum elong	-3551 Nov 29 j 01:21	11°♏07'47	0°03'59
behind sun begin	-3551 Nov 28 j 18:53	11°♏06'51	
behind sun end	-3551 Nov 29 j 07:48	11°♏08'42	
max. Earth dist.	-3551 Nov 30 j 03:24	11°♏11'36	20.72979 AU
morning rise	-3551 Dec 14 j 17:52	12°♏02'43	
	-3550 Feb 23 j 22:58	15°♏	
retrograde	-3550 Mar 18 j 04:24	15°♏12'14	
	-3550 Apr 09 j 18:52	15°℞♏	
min. Earth dist.	-3550 Jun 03 j 02:01	13°♏15'21	18.75459 AU
opposition	-3550 Jun 04 j 03:49	13°♏12'45	0°02'28
direct	-3550 Aug 19 j 11:38	11°♏15'15	
evening set	-3550 Nov 17 j 16:44	14°♏18'20	
	-3550 Nov 29 j 15:59	15°♏	
conjunction	-3550 Dec 03 j 07:28	15°♏12'49	0°00'34
minimum elong	-3550 Dec 03 j 07:27	15°♏12'49	0°00'28
behind sun begin	-3550 Dec 03 j 00:56	15°♏11'54	
behind sun end	-3550 Dec 03 j 13:58	15°♏13'45	
max. Earth dist.	-3550 Dec 04 j 09:47	15°♏16'40	20.77840 AU
morning rise	-3550 Dec 19 j 00:44	16°♏07'40	
desc. node	-3549 Jan 30 j 22:16	18°♏15'17	
retrograde	-3549 Mar 22 j 13:52	19°♏16'49	
opposition	-3549 Jun 08 j 16:06	17°♏17'20	-0°01'20
min. Earth dist.	-3549 Jun 07 j 14:03	17°♏19'57	18.80220 AU
direct	-3549 Aug 23 j 20:29	15°♏20'04	
evening set	-3549 Nov 21 j 22:11	18°♏22'17	
conjunction	-3549 Dec 07 j 13:31	19°♏16'40	-0°02'57
minimum elong	-3549 Dec 07 j 13:31	19°♏16'40	0°03'03
behind sun begin	-3549 Dec 07 j 07:00	19°♏15'45	
behind sun end	-3549 Dec 07 j 20:02	19°♏17'35	
max. Earth dist.	-3549 Dec 08 j 17:36	19°♏20'46	20.82481 AU
morning rise	-3549 Dec 23 j 07:19	20°♏11'25	
retrograde	-3548 Mar 25 j 23:59	23°♏20'14	
min. Earth dist.	-3548 Jun 10 j 23:51	21°♏23'34	18.84732 AU
opposition	-3548 Jun 12 j 03:30	21°♏20'48	-0°05'07
direct	-3548 Aug 27 j 06:21	19°♏23'47	
evening set	-3548 Nov 25 j 03:26	22°♏25'12	
conjunction	-3548 Dec 10 j 19:09	23°♏19'29	-0°06'21
minimum elong	-3548 Dec 10 j 19:09	23°♏19'29	0°06'27
behind sun begin	-3548 Dec 10 j 12:58	23°♏18'37	
behind sun end	-3548 Dec 11 j 01:20	23°♏20'22	
max. Earth dist.	-3548 Dec 11 j 23:14	23°♏23'34	20.86855 AU
morning rise	-3548 Dec 26 j 13:51	24°♏14'11	
retrograde	-3547 Mar 30 j 09:02	27°♏22'42	
min. Earth dist.	-3547 Jun 15 j 11:08	25°♏26'03	18.88968 AU
opposition	-3547 Jun 16 j 14:29	25°♏23'19	-0°08'52
direct	-3547 Aug 31 j 13:23	23°♏26'32	
evening set	-3547 Nov 29 j 08:19	26°♏27'15	
conjunction	-3547 Dec 15 j 00:44	27°♏21'28	-0°09'42
minimum elong	-3547 Dec 15 j 00:43	27°♏21'28	0°09'49
behind sun begin	-3547 Dec 14 j 19:20	27°♏20'42	
behind sun end	-3547 Dec 15 j 06:07	27°♏22'14	
max. Earth dist.	-3547 Dec 16 j 06:10	27°♏25'44	20.90929 AU
morning rise	-3547 Dec 30 j 20:01	28°♏16'07	
	-3546 Feb 02 j 14:17	0°♐	
retrograde	-3546 Apr 03 j 18:52	1°♐24'22	
	-3546 Jun 06 j 05:57	30°℞♏	
min. Earth dist.	-3546 Jun 19 j 20:06	29°♏27'55	18.92866 AU
opposition	-3546 Jun 21 j 00:43	29°♏25'03	-0°12'33
direct	-3546 Sep 04 j 22:20	27°♏28'31	
	-3546 Nov 24 j 23:00	0°♐	
evening set	-3546 Dec 03 j 13:13	0°♐28'36	
conjunction	-3546 Dec 19 j 06:05	1°♐22'45	-0°13'00
minimum elong	-3546 Dec 19 j 06:04	1°♐22'45	0°13'06
behind sun begin	-3546 Dec 19 j 02:05	1°♐22'11	
behind sun end	-3546 Dec 19 j 10:03	1°♐23'19	
max. Earth dist.	-3546 Dec 20 j 11:13	1°♐26'58	20.94643 AU
morning rise	-3545 Jan 04 j 02:18	2°♐17'22	
retrograde	-3545 Apr 08 j 03:28	5°♐25'25	
min. Earth dist.	-3545 Jun 24 j 06:54	3°♐28'57	18.96395 AU
opposition	-3545 Jun 25 j 10:44	3°♐26'10	-0°16'11
direct	-3545 Sep 09 j 03:51	1°♐29'50	
evening set	-3545 Dec 07 j 17:48	4°♐29'21	
conjunction	-3545 Dec 23 j 11:29	5°♐23'28	-0°16'14
minimum elong	-3545 Dec 23 j 11:29	5°♐23'28	0°16'22
max. Earth dist.	-3545 Dec 24 j 17:35	5°♐27'49	20.97961 AU
morning rise	-3544 Jan 08 j 08:25	6°♐18'04	
retrograde	-3544 Apr 11 j 13:27	9°♐25'56	
opposition	-3544 Jun 28 j 20:07	7°♐26'44	-0°19'43

Attention, astronomical year style is used: The year -3544 in astronomical counting style is the year 3545 BCE in historical counting style.

min. Earth dist.	-3544 Jun 27 j 15:28	7°♐29'36	18.99482 AU
direct	-3544 Sep 12 j 12:07	5°♐30'35	
evening set	-3544 Dec 10 j 22:41	8°♐29'38	
conjunction	-3544 Dec 26 j 16:54	9°♐23'43	-0°19'23
minimum elong	-3544 Dec 26 j 16:54	9°♐23'43	0°19'30
max. Earth dist.	-3544 Dec 27 j 22:09	9°♐27'55	21.00801 AU
morning rise	-3543 Jan 11 j 14:50	10°♐18'18	
retrograde	-3543 Apr 15 j 21:43	13°♐26'01	
min. Earth dist.	-3543 Jul 02 j 01:47	11°♐29'35	19.02078 AU
opposition	-3543 Jul 03 j 05:03	11°♐26'52	-0°23'09
direct	-3543 Sep 16 j 16:56	9°♐30'51	
evening set	-3543 Dec 15 j 03:22	12°♐29'28	
conjunction	-3543 Dec 30 j 22:29	13°♐23'33	-0°22'26
minimum elong	-3543 Dec 30 j 22:29	13°♐23'33	0°22'34
max. Earth dist.	-3542 Jan 01 j 04:04	13°♐27'48	21.03130 AU
morning rise	-3542 Jan 15 j 21:09	14°♐18'09	
retrograde	-3542 Apr 20 j 07:22	17°♐25'44	
min. Earth dist.	-3542 Jul 06 j 09:49	15°♐29'21	19.04128 AU
opposition	-3542 Jul 07 j 13:36	15°♐26'34	-0°26'27
direct	-3542 Sep 21 j 00:34	13°♐30'39	
evening set	-3542 Dec 19 j 08:05	16°♐28'54	
conjunction	-3541 Jan 04 j 03:50	17°♐22'59	-0°25'22
minimum elong	-3541 Jan 04 j 03:50	17°♐22'59	0°25'30
max. Earth dist.	-3541 Jan 05 j 08:15	17°♐27'03	21.04896 AU
morning rise	-3541 Jan 20 j 03:34	18°♐17'37	
retrograde	-3541 Apr 24 j 15:42	21°♐25'06	
opposition	-3541 Jul 11 j 21:58	19°♐25'53	-0°29'38
min. Earth dist.	-3541 Jul 10 j 19:48	19°♐28'31	19.05617 AU
direct	-3541 Sep 25 j 05:26	17°♐30'00	
evening set	-3541 Dec 23 j 12:46	20°♐27'55	
conjunction	-3540 Jan 08 j 09:32	21°♐22'02	-0°28'11
minimum elong	-3540 Jan 08 j 09:32	21°♐22'02	0°28'18
max. Earth dist.	-3540 Jan 09 j 14:00	21°♐26'07	21.06109 AU
morning rise	-3540 Jan 24 j 10:07	22°♐16'42	
retrograde	-3540 Apr 28 j 00:38	25°♐24'04	
min. Earth dist.	-3540 Jul 14 j 03:09	23°♐27'27	19.06550 AU
opposition	-3540 Jul 15 j 05:37	23°♐24'48	-0°32'40
direct	-3540 Sep 28 j 12:19	21°♐28'53	
evening set	-3540 Dec 26 j 17:38	24°♐26'33	
conjunction	-3539 Jan 11 j 15:09	25°♐20'42	-0°30'51
minimum elong	-3539 Jan 11 j 15:09	25°♐20'42	0°30'59
max. Earth dist.	-3539 Jan 12 j 18:16	25°♐24'35	21.06775 AU
morning rise	-3539 Jan 27 j 16:49	26°♐15'26	
retrograde	-3539 May 02 j 08:39	29°♐22'44	
opposition	-3539 Jul 19 j 13:06	27°♐23'20	-0°35'31
min. Earth dist.	-3539 Jul 18 j 12:23	27°♐25'49	19.06968 AU
direct	-3539 Oct 02 j 17:03	25°♐27'22	
evening set	-3539 Dec 30 j 22:20	28°♐24'50	
conjunction	-3538 Jan 15 j 20:52	29°♐19'03	-0°33'21
minimum elong	-3538 Jan 15 j 20:52	29°♐19'03	0°33'29
max. Earth dist.	-3538 Jan 17 j 00:03	29°♐22'56	21.06957 AU
	-3538 Jan 27 j 20:36	0°♑	
morning rise	-3538 Jan 31 j 23:22	0°♑13'50	
retrograde	-3538 May 06 j 17:20	3°♑21'05	
opposition	-3538 Jul 23 j 20:03	1°♑21'35	-0°38'12
min. Earth dist.	-3538 Jul 22 j 18:59	1°♑24'07	19.06920 AU
	-3538 Aug 30 j 06:15	30°℞♐	
direct	-3538 Oct 06 j 23:10	29°♐25'32	
	-3538 Nov 12 j 18:31	0°♑	
evening set	-3537 Jan 04 j 03:23	2°♑22'53	

conjunction	-3537 Jan 20 j 02:42	3°♑17'10	-0°35'42
minimum elong	-3537 Jan 20 j 02:42	3°♑17'10	0°35'51
max. Earth dist.	-3537 Jan 21 j 04:37	3°♑20'52	21.06695 AU
morning rise	-3537 Feb 05 j 06:19	4°♑12'03	
retrograde	-3537 May 11 j 00:35	7°♑19'17	
min. Earth dist.	-3537 Jul 27 j 03:33	5°♑22'01	19.06467 AU
opposition	-3537 Jul 28 j 02:53	5°♑19'40	-0°40'42
direct	-3537 Oct 11 j 03:43	3°♑23'30	
evening set	-3536 Jan 08 j 08:26	6°♑20'50	
conjunction	-3536 Jan 24 j 08:53	7°♑15'13	-0°37'52
minimum elong	-3536 Jan 24 j 08:53	7°♑15'13	0°38'00
max. Earth dist.	-3536 Jan 25 j 10:45	7°♑18'54	21.06054 AU
morning rise	-3536 Feb 09 j 13:24	8°♑10'10	
retrograde	-3536 May 14 j 10:04	11°♑17'28	
min. Earth dist.	-3536 Jul 30 j 09:45	9°♑20'07	19.05633 AU
opposition	-3536 Jul 31 j 09:19	9°♑17'44	-0°43'00
direct	-3536 Oct 14 j 09:22	7°♑21'27	
evening set	-3535 Jan 11 j 14:02	10°♑18'51	
conjunction	-3535 Jan 27 j 15:18	11°♑13'20	-0°39'52
minimum elong	-3535 Jan 27 j 15:18	11°♑13'20	0°40'00
max. Earth dist.	-3535 Jan 28 j 15:44	11°♑16'49	21.05031 AU
morning rise	-3535 Feb 12 j 20:54	12°♑08'25	
retrograde	-3535 May 18 j 16:53	15°♑15'46	
opposition	-3535 Aug 04 j 15:39	13°♑15'58	-0°45'06
min. Earth dist.	-3535 Aug 03 j 18:00	13°♑18'09	19.04436 AU
direct	-3535 Oct 18 j 13:18	11°♑19'35	
evening set	-3534 Jan 15 j 19:44	14°♑17'07	
conjunction	-3534 Jan 31 j 22:08	15°♑11'43	-0°41'40
minimum elong	-3534 Jan 31 j 22:08	15°♑11'43	0°41'47
max. Earth dist.	-3534 Feb 01 j 22:17	15°♑15'10	21.03667 AU
morning rise	-3534 Feb 17 j 04:38	16°♑06'55	
retrograde	-3534 May 23 j 03:01	19°♑14'25	
opposition	-3534 Aug 08 j 21:51	17°♑14'32	-0°46'59
min. Earth dist.	-3534 Aug 08 j 00:07	17°♑16'44	19.02891 AU
direct	-3534 Oct 22 j 19:02	15°♑18'03	
evening set	-3533 Jan 20 j 01:52	18°♑15'48	
conjunction	-3533 Feb 05 j 05:11	19°♑10'33	-0°43'16
minimum elong	-3533 Feb 05 j 05:11	19°♑10'33	0°43'23
max. Earth dist.	-3533 Feb 06 j 03:46	19°♑13'46	21.01943 AU
morning rise	-3533 Feb 21 j 12:48	20°♑05'54	
retrograde	-3533 May 27 j 10:17	23°♑13'35	
min. Earth dist.	-3533 Aug 12 j 08:38	21°♑15'38	19.00985 AU
opposition	-3533 Aug 13 j 04:14	21°♑13'38	-0°48'39
direct	-3533 Oct 26 j 22:22	19°♑17'02	
evening set	-3532 Jan 24 j 08:33	22°♑15'06	
conjunction	-3532 Feb 09 j 13:02	23°♑10'01	-0°44'41
minimum elong	-3532 Feb 09 j 13:02	23°♑10'01	0°44'48
max. Earth dist.	-3532 Feb 10 j 10:55	23°♑13'08	20.99861 AU
morning rise	-3532 Feb 25 j 21:33	24°♑05'31	
retrograde	-3532 May 30 j 20:54	27°♑13'24	
opposition	-3532 Aug 16 j 10:19	25°♑13'26	-0°50'05
min. Earth dist.	-3532 Aug 15 j 15:04	25°♑15'23	18.98702 AU
direct	-3532 Oct 30 j 04:39	23°♑16'42	
evening set	-3531 Jan 27 j 15:56	26°♑15'10	
conjunction	-3531 Feb 12 j 21:20	27°♑10'16	-0°45'52
minimum elong	-3531 Feb 12 j 21:20	27°♑10'16	0°45'59
max. Earth dist.	-3531 Feb 13 j 17:14	27°♑13'06	20.97373 AU
morning rise	-3531 Mar 01 j 06:55	28°♑05'56	
	-3531 Apr 08 j 15:39	0°♒	
retrograde	-3531 Jun 04 j 05:03	1°♒14'05	
	-3531 Aug 01 j 10:53	30°℞♑	

Attention, astronomical year style is used: The year -3531 in astronomical counting style is the year 3532 BCE in historical counting style.

opposition	-3531 Aug 20 j 16:46	29°♓14'04	-0°51'17
min. Earth dist.	-3531 Aug 20 j 00:03	29°♓15'46	18.96005 AU
direct	-3531 Nov 03 j 08:09	27°♓17'12	
	-3530 Jan 27 j 02:33	0°♒	
evening set	-3530 Jan 31 j 23:41	0°♒16'08	
conjunction	-3530 Feb 17 j 06:13	1°♒11'25	-0°46'51
minimum elong	-3530 Feb 17 j 06:13	1°♒11'25	0°46'58
max. Earth dist.	-3530 Feb 18 j 00:56	1°♒14'05	20.94463 AU
morning rise	-3530 Mar 05 j 16:39	2°♒07'16	
retrograde	-3530 Jun 08 j 16:11	5°♒15'43	
opposition	-3530 Aug 24 j 23:13	3°♒15'39	-0°52'15
min. Earth dist.	-3530 Aug 24 j 07:09	3°♒17'18	18.92861 AU
direct	-3530 Nov 07 j 14:58	1°♒18'36	
evening set	-3529 Feb 05 j 08:21	4°♒18'06	
conjunction	-3529 Feb 21 j 15:49	5°♒13'35	-0°47'35
minimum elong	-3529 Feb 21 j 15:49	5°♒13'35	0°47'41
max. Earth dist.	-3529 Feb 22 j 08:09	5°♒15'55	20.91079 AU
morning rise	-3529 Mar 10 j 03:16	6°♒09'37	
retrograde	-3529 Jun 13 j 01:17	9°♒18'24	
opposition	-3529 Aug 29 j 05:57	7°♒18'15	-0°52'57
min. Earth dist.	-3529 Aug 28 j 16:42	7°♒19'36	18.89236 AU
direct	-3529 Nov 11 j 19:30	5°♒20'59	
evening set	-3528 Feb 09 j 17:34	8°♒21'04	
conjunction	-3528 Feb 26 j 02:13	9°♒16'47	-0°48'06
minimum elong	-3528 Feb 26 j 02:13	9°♒16'47	0°48'12
max. Earth dist.	-3528 Feb 26 j 16:48	9°♒18'52	20.87218 AU
morning rise	-3528 Mar 13 j 14:33	10°♒13'01	
retrograde	-3528 Jun 16 j 12:46	13°♒22'08	
opposition	-3528 Sep 01 j 12:46	11°♒21'52	-0°53'23
min. Earth dist.	-3528 Sep 01 j 00:26	11°♒23'08	18.85121 AU
direct	-3528 Nov 15 j 02:44	9°♒24'20	
evening set	-3527 Feb 13 j 03:32	12°♒25'05	
conjunction	-3527 Mar 01 j 13:06	13°♒21'01	-0°48'21
minimum elong	-3527 Mar 01 j 13:06	13°♒21'01	0°48'27
max. Earth dist.	-3527 Mar 02 j 01:09	13°♒22'44	20.82859 AU
morning rise	-3527 Mar 18 j 02:21	14°♒17'28	
	-3527 Mar 31 j 03:20	15°♒	
retrograde	-3527 Jun 20 j 22:27	17°♒26'55	
opposition	-3527 Sep 05 j 19:50	15°♒26'31	-0°53'33
min. Earth dist.	-3527 Sep 05 j 10:21	15°♒27'30	18.80535 AU
	-3527 Sep 16 j 14:27	15°℞♒	
direct	-3527 Nov 19 j 08:40	13°♒28'41	
	-3526 Jan 19 j 12:02	15°♒	
evening set	-3526 Feb 17 j 13:59	16°♒30'08	
conjunction	-3526 Mar 06 j 00:40	17°♒26'19	-0°48'22
minimum elong	-3526 Mar 06 j 00:40	17°♒26'19	0°48'28
max. Earth dist.	-3526 Mar 06 j 10:53	17°♒27'46	20.78079 AU
morning rise	-3526 Mar 22 j 14:44	18°♒22'59	
retrograde	-3526 Jun 25 j 10:01	21°♒32'48	
opposition	-3526 Sep 10 j 03:01	19°♒32'14	-0°53'26
min. Earth dist.	-3526 Sep 09 j 18:25	19°♒33'08	18.75553 AU
direct	-3526 Nov 23 j 16:28	17°♒34'04	
evening set	-3525 Feb 22 j 01:07	20°♒36'16	
conjunction	-3525 Mar 10 j 12:46	21°♒32'42	-0°48'08
minimum elong	-3525 Mar 10 j 12:46	21°♒32'42	0°48'14
max. Earth dist.	-3525 Mar 10 j 20:43	21°♒33'50	20.72918 AU
morning rise	-3525 Mar 27 j 03:43	22°♒29'36	
retrograde	-3525 Jun 29 j 20:22	25°♒39'48	
opposition	-3525 Sep 14 j 10:35	23°♒39'04	-0°53'03
min. Earth dist.	-3525 Sep 14 j 04:44	23°♒39'41	18.70230 AU
direct	-3525 Nov 27 j 23:14	21°♒40'32	
evening set	-3524 Feb 26 j 13:02	24°♒43'33	
conjunction	-3524 Mar 14 j 01:43	25°♒40'15	-0°47'40
minimum elong	-3524 Mar 14 j 01:43	25°♒40'15	0°47'44
max. Earth dist.	-3524 Mar 14 j 07:45	25°♒41'07	20.67462 AU
morning rise	-3524 Mar 30 j 17:26	26°♒37'23	
retrograde	-3524 Jul 03 j 08:47	29°♒47'59	
opposition	-3524 Sep 17 j 18:10	27°♒47'06	-0°52'24
min. Earth dist.	-3524 Sep 17 j 13:14	27°♒47'37	18.64642 AU
direct	-3524 Dec 01 j 08:02	25°♒48'11	
evening set	-3523 Mar 02 j 01:44	28°♒52'06	
conjunction	-3523 Mar 18 j 15:18	29°♒49'04	-0°46'56
minimum elong	-3523 Mar 18 j 15:18	29°♒49'04	0°47'01
max. Earth dist.	-3523 Mar 18 j 19:16	29°♒49'38	20.61756 AU
	-3523 Mar 21 j 19:02	0°♓	
morning rise	-3523 Apr 04 j 07:42	0°♓46'26	
retrograde	-3523 Jul 07 j 19:51	3°♓57'28	
opposition	-3523 Sep 22 j 02:23	1°♓56'26	-0°51'28
min. Earth dist.	-3523 Sep 22 j 00:01	1°♓56'41	18.58842 AU
	-3523 Nov 25 j 04:35	30°℞♒	
direct	-3523 Dec 05 j 15:18	29°♒57'09	
	-3523 Dec 15 j 23:51	0°♓	
evening set	-3522 Mar 06 j 14:57	3°♓02'01	
conjunction	-3522 Mar 23 j 05:27	3°♓59'15	-0°45'57
minimum elong	-3522 Mar 23 j 05:27	3°♓59'15	0°46'01
max. Earth dist.	-3522 Mar 23 j 07:28	3°♓59'32	20.55886 AU
morning rise	-3522 Apr 08 j 22:33	4°♓56'52	
retrograde	-3522 Jul 12 j 09:41	8°♓08'23	
opposition	-3522 Sep 26 j 10:53	6°♓07'12	-0°50'16
min. Earth dist.	-3522 Sep 26 j 09:21	6°♓07'21	18.52898 AU
direct	-3522 Dec 10 j 01:00	4°♓07'32	
evening set	-3521 Mar 11 j 05:14	7°♓13'25	
conjunction	-3521 Mar 27 j 20:36	8°♓10'57	-0°44'44
minimum elong	-3521 Mar 27 j 20:36	8°♓10'57	0°44'47
max. Earth dist.	-3521 Mar 27 j 20:44	8°♓10'58	20.49875 AU
morning rise	-3521 Apr 13 j 14:16	9°♓08'49	
retrograde	-3521 Jul 16 j 22:10	12°♓20'48	
opposition	-3521 Sep 30 j 19:54	10°♓19'31	-0°48'47
min. Earth dist.	-3521 Sep 30 j 20:53	10°♓19'25	18.46838 AU
direct	-3521 Dec 14 j 09:23	8°♓19'29	
evening set	-3520 Mar 14 j 20:25	11°♓26'27	
conjunction	-3520 Mar 31 j 12:37	12°♓24'16	-0°43'16
minimum elong	-3520 Mar 31 j 12:37	12°♓24'16	0°43'19
max. Earth dist.	-3520 Mar 31 j 10:27	12°♓23'57	20.43783 AU
morning rise	-3520 Apr 17 j 06:53	13°♓22'24	
retrograde	-3520 Jul 20 j 13:16	16°♓34'54	
opposition	-3520 Oct 04 j 05:24	14°♓33'31	-0°47'02
min. Earth dist.	-3520 Oct 04 j 07:23	14°♓33'19	18.40703 AU
direct	-3520 Dec 17 j 19:55	12°♓33'09	
evening set	-3519 Mar 19 j 12:27	15°♓41'15	
conjunction	-3519 Apr 05 j 05:23	16°♓39'22	-0°41'33
minimum elong	-3519 Apr 05 j 05:24	16°♓39'22	0°41'35
max. Earth dist.	-3519 Apr 05 j 01:32	16°♓38'48	20.37604 AU
morning rise	-3519 Apr 22 j 00:01	17°♓37'45	
retrograde	-3519 Jul 25 j 03:37	20°♓50'48	
opposition	-3519 Oct 08 j 15:35	18°♓49'21	-0°45'01
min. Earth dist.	-3519 Oct 08 j 20:01	18°♓48'53	18.34490 AU
direct	-3519 Dec 22 j 05:45	16°♓48'39	
evening set	-3518 Mar 24 j 05:30	19°♓57'56	
conjunction	-3518 Apr 09 j 23:06	20°♓56'20	-0°39'36
minimum elong	-3518 Apr 09 j 23:06	20°♓56'20	0°39'39

Attention, astronomical year style is used: The year -3518 in astronomical counting style is the year 3519 BCE in historical counting style.

max. Earth dist.	-3518 Apr 09 j 16:37	20°♓55'23	20.31372 AU
morning rise	-3518 Apr 26 j 18:14	21°♓54'59	
retrograde	-3518 Jul 29 j 19:56	25°♓08'36	
opposition	-3518 Oct 13 j 02:16	23°♓07'05	-0°42'44
min. Earth dist.	-3518 Oct 13 j 07:57	23°♓06'29	18.28219 AU
direct	-3518 Dec 26 j 17:35	21°♓06'03	
evening set	-3517 Mar 28 j 23:32	24°♓16'33	
conjunction	-3517 Apr 14 j 17:51	25°♓15'16	-0°37'25
minimum elong	-3517 Apr 14 j 17:51	25°♓15'16	0°37'25
max. Earth dist.	-3517 Apr 14 j 09:40	25°♓14'04	20.25047 AU
morning rise	-3517 May 01 j 13:12	26°♓14'11	
retrograde	-3517 Aug 03 j 11:53	29°♓28'20	
opposition	-3517 Oct 17 j 13:47	27°♓26'47	-0°40'11
min. Earth dist.	-3517 Oct 17 j 22:01	27°♓25'55	18.21844 AU
direct	-3517 Dec 31 j 05:09	25°♓25'25	
evening set	-3516 Apr 01 j 18:44	28°♓37'10	
conjunction	-3516 Apr 18 j 13:30	29°♓36'10	-0°34'59
minimum elong	-3516 Apr 18 j 13:30	29°♓36'10	0°34'59
max. Earth dist.	-3516 Apr 18 j 02:08	29°♓34'30	20.18625 AU
	-3516 Apr 25 j 06:50	0°♈	
morning rise	-3516 May 05 j 09:10	0°♈35'20	
retrograde	-3516 Aug 07 j 05:09	3°♈50'04	
opposition	-3516 Oct 21 j 01:53	1°♈48'26	-0°37'23
min. Earth dist.	-3516 Oct 21 j 11:39	1°♈47'23	18.15369 AU
	-3516 Dec 12 j 06:10	30°℞♓	
direct	-3515 Jan 03 j 19:01	29°♓46'41	
	-3515 Jan 26 j 05:04	0°♈	
evening set	-3515 Apr 06 j 14:46	2°♈59'42	
conjunction	-3515 Apr 23 j 10:06	3°♈59'00	-0°32'20
minimum elong	-3515 Apr 23 j 10:06	3°♈59'00	0°32'20
max. Earth dist.	-3515 Apr 22 j 21:06	3°♈57'05	20.12089 AU
morning rise	-3515 May 10 j 05:44	4°♈58'25	
retrograde	-3515 Aug 11 j 22:09	8°♈13'40	
opposition	-3515 Oct 25 j 14:53	6°♈11'58	-0°34'20
min. Earth dist.	-3515 Oct 26 j 02:57	6°♈10'40	18.08787 AU
direct	-3514 Jan 08 j 08:30	4°♈09'51	
evening set	-3514 Apr 11 j 11:37	7°♈24'06	
conjunction	-3514 Apr 28 j 07:14	8°♈23'42	-0°29'29
minimum elong	-3514 Apr 28 j 07:14	8°♈23'42	0°29'27
max. Earth dist.	-3514 Apr 27 j 14:57	8°♈21'17	20.05479 AU
morning rise	-3514 May 15 j 03:07	9°♈23'21	
retrograde	-3514 Aug 16 j 16:08	12°♈39'09	
opposition	-3514 Oct 30 j 04:29	10°♈37'19	-0°31'04
min. Earth dist.	-3514 Oct 30 j 18:10	10°♈35'51	18.02153 AU
direct	-3513 Jan 13 j 00:32	8°♈34'47	
evening set	-3513 Apr 16 j 09:25	11°♈50'18	
max. Earth dist.	-3513 May 02 j 11:57	12°♈47'34	19.98825 AU
conjunction	-3513 May 03 j 05:30	12°♈50'11	-0°26'26
minimum elong	-3513 May 03 j 05:30	12°♈50'11	0°26'25
morning rise	-3513 May 20 j 01:09	13°♈50'04	
retrograde	-3513 Aug 21 j 09:56	17°♈06'21	
opposition	-3513 Nov 03 j 18:44	15°♈04'26	-0°27'35
min. Earth dist.	-3513 Nov 04 j 10:26	15°♈02'44	17.95503 AU
direct	-3512 Jan 17 j 15:54	13°♈01'28	
evening set	-3512 Apr 20 j 08:10	16°♈18'16	
max. Earth dist.	-3512 May 06 j 07:34	17°♈15'18	19.92208 AU
conjunction	-3512 May 07 j 04:17	17°♈18'24	-0°23'12
minimum elong	-3512 May 07 j 04:17	17°♈18'24	0°23'09
morning rise	-3512 May 23 j 23:58	18°♈18'30	
retrograde	-3512 Aug 25 j 04:48	21°♈35'18	
opposition	-3512 Nov 07 j 09:44	19°♈33'14	-0°23'54
min. Earth dist.	-3512 Nov 08 j 03:02	19°♈31'22	17.88937 AU
direct	-3511 Jan 21 j 09:50	17°♈29'51	
evening set	-3511 Apr 25 j 07:20	20°♈47'54	
max. Earth dist.	-3511 May 11 j 06:22	21°♈45'05	19.85697 AU
conjunction	-3511 May 12 j 03:42	21°♈48'18	-0°19'48
minimum elong	-3511 May 12 j 03:42	21°♈48'18	0°19'46
morning rise	-3511 May 28 j 22:58	22°♈48'36	
retrograde	-3511 Aug 29 j 23:26	26°♈05'53	
opposition	-3511 Nov 12 j 01:28	24°♈03'43	-0°20'04
min. Earth dist.	-3511 Nov 12 j 20:07	24°♈01'42	17.82509 AU
direct	-3510 Jan 26 j 03:13	21°♈59'56	
evening set	-3510 Apr 30 j 07:29	25°♈19'13	
max. Earth dist.	-3510 May 16 j 03:34	26°♈16'12	19.79378 AU
conjunction	-3510 May 17 j 03:41	26°♈19'51	-0°16'17
minimum elong	-3510 May 17 j 03:41	26°♈19'51	0°16'14
morning rise	-3510 Jun 02 j 22:46	27°♈20'21	
	-3510 Jul 27 j 22:46	0°♉	
retrograde	-3510 Sep 03 j 18:56	0°♉38'07	
	-3510 Oct 12 j 02:23	30°℞♈	
opposition	-3510 Nov 16 j 17:47	28°♈35'50	-0°16'05
min. Earth dist.	-3510 Nov 17 j 13:57	28°♈33'39	17.76324 AU
direct	-3509 Jan 30 j 22:34	26°♈31'38	
evening set	-3509 May 05 j 08:10	29°♈52'10	
	-3509 May 07 j 12:57	0°♉	
max. Earth dist.	-3509 May 21 j 04:05	0°♉49'20	19.73323 AU
conjunction	-3509 May 22 j 04:27	0°♉53'02	-0°12'38
minimum elong	-3509 May 22 j 04:27	0°♉53'02	0°12'34
behind sun begin	-3509 May 22 j 00:13	0°♉52'25	
behind sun end	-3509 May 22 j 08:41	0°♉53'40	
morning rise	-3509 Jun 07 j 22:57	1°♉53'42	
retrograde	-3509 Sep 08 j 14:51	5°♉11'55	
opposition	-3509 Nov 21 j 10:58	3°♉09'35	-0°11'58
min. Earth dist.	-3509 Nov 22 j 07:56	3°♉07'18	17.70423 AU
direct	-3508 Feb 04 j 18:21	1°♉05'02	
evening set	-3508 May 09 j 09:41	4°♉26'46	
max. Earth dist.	-3508 May 25 j 02:53	5°♉23'47	19.67592 AU
conjunction	-3508 May 26 j 05:33	5°♉27'50	-0°08'54
minimum elong	-3508 May 26 j 05:33	5°♉27'50	0°08'50
behind sun begin	-3508 May 25 j 23:44	5°♉26'58	
behind sun end	-3508 May 26 j 11:21	5°♉28'42	
morning rise	-3508 Jun 11 j 23:35	6°♉28'40	
retrograde	-3508 Sep 12 j 10:56	9°♉47'21	
opposition	-3508 Nov 25 j 04:57	7°♉44'58	-0°07'45
min. Earth dist.	-3508 Nov 26 j 03:16	7°♉42'32	17.64894 AU
direct	-3507 Feb 08 j 15:02	5°♉40'05	
evening set	-3507 May 14 j 11:37	9°♉03'01	
max. Earth dist.	-3507 May 30 j 04:42	10°♉00'12	19.62259 AU
conjunction	-3507 May 31 j 07:18	10°♉04'16	-0°05'06
minimum elong	-3507 May 31 j 07:17	10°♉04'16	0°05'01
behind sun begin	-3507 May 31 j 00:42	10°♉03'17	
behind sun end	-3507 May 31 j 13:53	10°♉05'15	
morning rise	-3507 Jun 17 j 00:35	11°♉05'14	
retrograde	-3507 Sep 17 j 08:36	14°♉24'21	
opposition	-3507 Nov 29 j 23:37	12°♉21'58	-0°03'28
min. Earth dist.	-3507 Nov 30 j 22:09	12°♉19'30	17.59771 AU
direct	-3506 Feb 13 j 12:46	10°♉16'50	
evening set	-3506 May 19 j 14:13	13°♉40'54	
max. Earth dist.	-3506 Jun 04 j 05:03	14°♉37'58	19.57352 AU
conjunction	-3506 Jun 05 j 09:22	14°♉42'19	-0°01'11
minimum elong	-3506 Jun 05 j 09:22	14°♉42'19	0°01'06
behind sun begin	-3506 Jun 05 j 02:35	14°♉41'18	

Attention, astronomical year style is used: The year -3506 in astronomical counting style is the year 3507 BCE in historical counting style.

behind sun end	-3506 Jun	05 j 16:08	14°♉43'20	
	-3506 Jun	10 j 04:30	15°♉	
morning rise	-3506 Jun	22 j 02:01	15°♉43'25	
asc. node	-3506 Sep	21 j 22:25	19°♉02'58	
retrograde	-3506 Sep	22 j 05:43	19°♉02'58	
opposition	-3506 Dec	04 j 19:12	17°♉00'37	0°00'53
min. Earth dist.	-3506 Dec	05 j 19:08	16°♉58'00	17.55091 AU
	-3505 Feb	05 j 00:36	15°℞♉	
direct	-3505 Feb	18 j 10:21	14°♉55'14	
	-3505 Mar	03 j 18:12	15°♉	
evening set	-3505 May	24 j 17:24	18°♉20'26	
max. Earth dist.	-3505 Jun	09 j 07:48	19°♉17'38	19.52887 AU
conjunction	-3505 Jun	10 j 12:06	19°♉21'59	0°02'50
minimum elong	-3505 Jun	10 j 12:06	19°♉21'59	0°02'56
behind sun begin	-3505 Jun	10 j 05:21	19°♉20'58	
behind sun end	-3505 Jun	10 j 18:51	19°♉23'00	
morning rise	-3505 Jun	27 j 03:53	20°♉23'11	
retrograde	-3505 Sep	27 j 05:28	23°♉43'08	
opposition	-3505 Dec	09 j 15:22	21°♉40'51	0°05'15
min. Earth dist.	-3505 Dec	10 j 15:17	21°♉38'14	17.50832 AU
direct	-3504 Feb	23 j 09:53	19°♉35'18	
evening set	-3504 May	28 j 21:14	23°♉01'32	
max. Earth dist.	-3504 Jun	13 j 09:43	23°♉58'40	19.48833 AU
conjunction	-3504 Jun	14 j 15:11	24°♉03'13	0°06'44
minimum elong	-3504 Jun	14 j 15:11	24°♉03'13	0°06'51
behind sun begin	-3504 Jun	14 j 08:54	24°♉02'16	
behind sun end	-3504 Jun	14 j 21:28	24°♉04'10	
morning rise	-3504 Jul	01 j 06:03	25°♉04'30	
retrograde	-3504 Oct	01 j 03:33	28°♉24'49	
opposition	-3504 Dec	13 j 12:36	26°♉22'37	0°09'36
min. Earth dist.	-3504 Dec	14 j 14:00	26°♉19'50	17.46995 AU
direct	-3503 Feb	27 j 08:22	24°♉16'53	
evening set	-3503 Jun	03 j 01:14	27°♉44'05	
conjunction	-3503 Jun	19 j 18:27	28°♉45'52	0°10'37
minimum elong	-3503 Jun	19 j 18:27	28°♉45'52	0°10'44
behind sun begin	-3503 Jun	19 j 13:19	28°♉45'05	
behind sun end	-3503 Jun	19 j 23:36	28°♉46'38	
max. Earth dist.	-3503 Jun	18 j 12:47	28°♉41'15	19.45192 AU
morning rise	-3503 Jul	06 j 08:22	29°♉47'12	
	-3503 Jul	09 j 21:24	0°♊	
retrograde	-3503 Oct	06 j 04:31	3°♊07'51	
opposition	-3503 Dec	18 j 10:26	1°♊05'43	0°13'55
min. Earth dist.	-3503 Dec	19 j 11:27	1°♊02'59	17.43544 AU
	-3502 Jan	13 j 20:09	30°℞♉	
direct	-3502 Mar	04 j 09:16	28°♉59'50	
	-3502 Apr	21 j 19:58	0°♊	
evening set	-3502 Jun	08 j 05:47	2°♊27'54	
conjunction	-3502 Jun	24 j 22:10	3°♊29'45	0°14'27
minimum elong	-3502 Jun	24 j 22:10	3°♊29'45	0°14'35
behind sun begin	-3502 Jun	24 j 19:26	3°♊29'20	
behind sun end	-3502 Jun	25 j 00:54	3°♊30'10	
max. Earth dist.	-3502 Jun	23 j 15:56	3°♊25'03	19.41921 AU
morning rise	-3502 Jul	11 j 10:56	4°♊31'07	
retrograde	-3502 Oct	11 j 03:10	7°♊52'03	
opposition	-3502 Dec	23 j 09:00	5°♊49'58	0°18'10
min. Earth dist.	-3502 Dec	24 j 11:31	5°♊47'04	17.40473 AU
direct	-3501 Mar	09 j 09:19	3°♊43'55	
evening set	-3501 Jun	13 j 10:38	7°♊12'47	
max. Earth dist.	-3501 Jun	28 j 19:13	8°♊09'51	19.39039 AU
conjunction	-3501 Jun	30 j 02:01	8°♊14'40	0°18'12
minimum elong	-3501 Jun	30 j 02:01	8°♊14'39	0°18'19
morning rise	-3501 Jul	16 j 13:45	9°♊16'01	
retrograde	-3501 Oct	16 j 04:09	12°♊37'10	
opposition	-3501 Dec	28 j 08:13	10°♊35'08	0°22'18
min. Earth dist.	-3501 Dec	29 j 10:01	10°♊32'19	17.37782 AU
direct	-3500 Mar	13 j 11:56	8°♊28'58	
evening set	-3500 Jun	17 j 15:24	11°♊58'28	
max. Earth dist.	-3500 Jul	02 j 23:26	12°♊55'35	19.36539 AU
conjunction	-3500 Jul	04 j 05:50	13°♊00'21	0°21'51
minimum elong	-3500 Jul	04 j 05:50	13°♊00'21	0°21'58
morning rise	-3500 Jul	20 j 16:13	14°♊01'41	
retrograde	-3500 Oct	20 j 02:42	17°♊23'00	
opposition	-3499 Jan	01 j 08:11	15°♊20'59	0°26'17
min. Earth dist.	-3499 Jan	02 j 11:02	15°♊18'04	17.35497 AU
direct	-3499 Mar	18 j 13:44	13°♊14'41	
evening set	-3499 Jun	22 j 20:16	16°♊44'44	
max. Earth dist.	-3499 Jul	08 j 02:38	17°♊41'44	19.34478 AU
conjunction	-3499 Jul	09 j 09:30	17°♊46'35	0°25'20
minimum elong	-3499 Jul	09 j 09:30	17°♊46'35	0°25'28
morning rise	-3499 Jul	25 j 18:50	18°♊47'52	
retrograde	-3499 Oct	25 j 03:16	22°♊09'19	
opposition	-3498 Jan	06 j 08:21	20°♊07'18	0°30'06
min. Earth dist.	-3498 Jan	07 j 10:08	20°♊04'30	17.33666 AU
direct	-3498 Mar	23 j 17:55	18°♊00'53	
evening set	-3498 Jun	28 j 00:52	21°♊31'21	
max. Earth dist.	-3498 Jul	13 j 07:34	22°♊28'30	19.32880 AU
conjunction	-3498 Jul	14 j 13:08	22°♊33'09	0°28'40
minimum elong	-3498 Jul	14 j 13:08	22°♊33'09	0°28'47
morning rise	-3498 Jul	30 j 21:04	23°♊34'21	
retrograde	-3498 Oct	30 j 01:56	26°♊55'51	
opposition	-3497 Jan	11 j 09:13	24°♊53'51	0°33'42
min. Earth dist.	-3497 Jan	12 j 11:30	24°♊51'00	17.32316 AU
direct	-3497 Mar	28 j 21:23	22°♊47'21	
evening set	-3497 Jul	03 j 05:25	26°♊18'06	
max. Earth dist.	-3497 Jul	18 j 10:30	27°♊15'07	19.31797 AU
conjunction	-3497 Jul	19 j 16:18	27°♊19'49	0°31'47
minimum elong	-3497 Jul	19 j 16:18	27°♊19'49	0°31'56
morning rise	-3497 Aug	04 j 23:07	28°♊20'56	
	-3497 Sep	02 j 23:13	0°♋	
retrograde	-3497 Nov	04 j 01:58	1°♋42'26	
	-3496 Jan	08 j 21:31	30°℞♊	
opposition	-3496 Jan	16 j 10:18	29°♊40'26	0°37'04
min. Earth dist.	-3496 Jan	17 j 11:10	29°♊37'44	17.31509 AU
direct	-3496 Apr	02 j 02:18	27°♊33'51	
	-3496 Jun	19 j 02:27	0°♋	
evening set	-3496 Jul	07 j 09:26	1°♋04'47	
conjunction	-3496 Jul	23 j 19:15	2°♋06'23	0°34'41
minimum elong	-3496 Jul	23 j 19:14	2°♋06'23	0°34'49
max. Earth dist.	-3496 Jul	22 j 15:40	2°♋02'02	19.31274 AU
morning rise	-3496 Aug	09 j 00:36	3°♋07'23	
retrograde	-3496 Nov	08 j 01:06	6°♋28'51	
opposition	-3495 Jan	20 j 11:54	4°♋26'53	0°40'10
min. Earth dist.	-3495 Jan	21 j 12:24	4°♋24'13	17.31287 AU
direct	-3495 Apr	07 j 06:14	2°♋20'17	
evening set	-3495 Jul	12 j 13:04	5°♋51'15	
conjunction	-3495 Jul	28 j 21:26	6°♋52'43	0°37'21
minimum elong	-3495 Jul	28 j 21:26	6°♋52'43	0°37'28
max. Earth dist.	-3495 Jul	27 j 18:08	6°♋48'24	19.31367 AU
morning rise	-3495 Aug	14 j 01:41	7°♋53'34	
retrograde	-3495 Nov	13 j 01:02	11°♋14'58	
opposition	-3494 Jan	25 j 13:36	9°♋13'02	0°43'00
min. Earth dist.	-3494 Jan	26 j 12:25	9°♋10'34	17.31701 AU
direct	-3494 Apr	12 j 10:45	7°♋06'28	

Attention, astronomical year style is used: The year -3494 in astronomical counting style is the year 3495 BCE in historical counting style.

evening set	-3494 Jul 17 j 16:14	10°♋37'23		
conjunction	-3494 Aug 02 j 23:28	11°♋38'41	0°39'44	
minimum elong	-3494 Aug 02 j 23:27	11°♋38'41	0°39'52	
max. Earth dist.	-3494 Aug 01 j 22:51	11°♋34'48	19.32102 AU	
morning rise	-3494 Aug 19 j 02:16	12°♋39'23		
retrograde	-3494 Nov 18 j 00:23	16°♋00'40		
opposition	-3493 Jan 30 j 15:31	13°♋58'49	0°45'32	
min. Earth dist.	-3493 Jan 31 j 13:14	13°♋56'29	17.32756 AU	
direct	-3493 Apr 17 j 14:33	11°♋52'22		
evening set	-3493 Jul 22 j 19:06	15°♋23'07		
max. Earth dist.	-3493 Aug 07 j 00:56	16°♋20'28	19.33492 AU	
conjunction	-3493 Aug 08 j 00:50	16°♋24'15	0°41'52	
minimum elong	-3493 Aug 08 j 00:50	16°♋24'15	0°41'59	
morning rise	-3493 Aug 24 j 02:30	17°♋24'46		
retrograde	-3493 Nov 23 j 00:19	20°♋45'55		
opposition	-3492 Feb 04 j 17:41	18°♋44'11	0°47'44	
min. Earth dist.	-3492 Feb 05 j 13:44	18°♋42'02	17.34475 AU	
direct	-3492 Apr 21 j 18:15	16°♋37'54		
evening set	-3492 Jul 26 j 21:03	20°♋08'23		
max. Earth dist.	-3492 Aug 11 j 04:37	21°♋06'00	19.35529 AU	
conjunction	-3492 Aug 12 j 01:37	21°♋09'19	0°43'42	
minimum elong	-3492 Aug 12 j 01:37	21°♋09'19	0°43'50	
morning rise	-3492 Aug 28 j 01:57	22°♋09'39		
retrograde	-3492 Nov 27 j 00:04	25°♋30'38		
opposition	-3491 Feb 08 j 19:59	23°♋29'04	0°49'37	
min. Earth dist.	-3491 Feb 09 j 14:18	23°♋27'06	17.36801 AU	
direct	-3491 Apr 26 j 21:43	21°♋23'01		
evening set	-3491 Jul 31 j 22:40	24°♋53'07		
max. Earth dist.	-3491 Aug 16 j 05:56	25°♋50'42	19.38151 AU	
conjunction	-3491 Aug 17 j 01:51	25°♋53'50	0°45'15	
minimum elong	-3491 Aug 17 j 01:50	25°♋53'50	0°45'21	
morning rise	-3491 Sep 02 j 01:04	26°♋53'58		
	-3491 Nov 09 j 01:46	0°♌		
retrograde	-3491 Dec 01 j 23:42	0°♌14'44		
	-3491 Dec 25 j 06:45	30°℞♋		
opposition	-3490 Feb 13 j 22:10	28°♋13'20	0°51'10	
min. Earth dist.	-3490 Feb 14 j 15:12	28°♋11'30	17.39701 AU	
direct	-3490 May 02 j 00:37	26°♋07'33		
evening set	-3490 Aug 05 j 23:32	29°♋37'11		
	-3490 Aug 12 j 02:25	0°♌		
max. Earth dist.	-3490 Aug 21 j 08:08	0°♌34'55	19.41308 AU	
conjunction	-3490 Aug 22 j 01:32	0°♌37'40	0°46'28	
minimum elong	-3490 Aug 22 j 01:32	0°♌37'40	0°46'35	
morning rise	-3490 Sep 06 j 23:33	1°♌37'35		
retrograde	-3490 Dec 06 j 23:19	4°♌58'05		
opposition	-3489 Feb 19 j 00:30	2°♌56'52	0°52'21	
min. Earth dist.	-3489 Feb 19 j 15:23	2°♌55'16	17.43082 AU	
direct	-3489 May 07 j 04:15	0°♌51'23		
evening set	-3489 Aug 10 j 23:45	4°♌20'25		
max. Earth dist.	-3489 Aug 26 j 08:32	5°♌18'08	19.44914 AU	
conjunction	-3489 Aug 27 j 00:24	5°♌20'39	0°47'23	
minimum elong	-3489 Aug 27 j 00:24	5°♌20'39	0°47'30	
morning rise	-3489 Sep 11 j 21:20	6°♌20'19		
retrograde	-3489 Dec 11 j 21:55	9°♌40'33		
opposition	-3488 Feb 24 j 02:55	7°♌39'28	0°53'11	
min. Earth dist.	-3488 Feb 24 j 16:42	7°♌38'00	17.46904 AU	
direct	-3488 May 11 j 06:53	5°♌34'18		
evening set	-3488 Aug 14 j 23:11	9°♌02'38		
conjunction	-3488 Aug 30 j 22:39	10°♌02'35	0°47'58	
minimum elong	-3488 Aug 30 j 22:39	10°♌02'35	0°48'04	
max. Earth dist.	-3488 Aug 30 j 08:59	10°♌00'26	19.48935 AU	
morning rise	-3488 Sep 15 j 18:33	11°♌02'01		
retrograde	-3488 Dec 15 j 20:51	14°♌21'55		
opposition	-3487 Feb 28 j 04:58	12°♌20'58	0°53'38	
min. Earth dist.	-3487 Feb 28 j 16:11	12°♌19'46	17.51096 AU	
direct	-3487 May 16 j 10:48	10°♌16'07		
evening set	-3487 Aug 19 j 21:45	13°♌43'37		
conjunction	-3487 Sep 04 j 20:05	14°♌43'17	0°48'14	
minimum elong	-3487 Sep 04 j 20:05	14°♌43'17	0°48'20	
max. Earth dist.	-3487 Sep 04 j 08:20	14°♌41'27	19.53295 AU	
	-3487 Sep 09 j 06:21	15°♌		
morning rise	-3487 Sep 20 j 15:00	15°♌42'28		
retrograde	-3487 Dec 20 j 17:34	19°♌01'59		
opposition	-3486 Mar 05 j 06:55	17°♌01'09	0°53'45	
min. Earth dist.	-3486 Mar 05 j 17:15	17°♌00'03	17.55616 AU	
	-3486 May 10 j 02:18	15°℞♌		
direct	-3486 May 21 j 13:11	14°♌56'37		
	-3486 Jun 01 j 22:51	15°♌		
evening set	-3486 Aug 24 j 19:31	18°♌23'12		
conjunction	-3486 Sep 09 j 16:42	19°♌22'35	0°48'11	
minimum elong	-3486 Sep 09 j 16:42	19°♌22'35	0°48'15	
max. Earth dist.	-3486 Sep 09 j 06:44	19°♌21'01	19.57967 AU	
morning rise	-3486 Sep 25 j 10:45	20°♌21'30		
retrograde	-3486 Dec 25 j 15:09	23°♌40'35		
opposition	-3485 Mar 10 j 08:20	21°♌39'50	0°53'29	
min. Earth dist.	-3485 Mar 10 j 15:48	21°♌39'03	17.60416 AU	
direct	-3485 May 26 j 16:44	19°♌35'37		
evening set	-3485 Aug 29 j 16:18	23°♌01'11		
conjunction	-3485 Sep 14 j 12:30	24°♌00'16	0°47'48	
minimum elong	-3485 Sep 14 j 12:30	24°♌00'16	0°47'53	
max. Earth dist.	-3485 Sep 14 j 04:58	23°♌59'06	19.62908 AU	
morning rise	-3485 Sep 30 j 05:40	24°♌58'56		
retrograde	-3485 Dec 30 j 10:16	28°♌17'33		
opposition	-3484 Mar 14 j 09:36	26°♌16'52	0°52'53	
min. Earth dist.	-3484 Mar 14 j 16:05	26°♌16'11	17.65495 AU	
direct	-3484 May 30 j 17:41	24°♌12'57		
evening set	-3484 Sep 02 j 11:59	27°♌37'24		
conjunction	-3484 Sep 18 j 07:09	28°♌36'11	0°47'07	
minimum elong	-3484 Sep 18 j 07:09	28°♌36'11	0°47'12	
max. Earth dist.	-3484 Sep 18 j 01:19	28°♌35'17	19.68129 AU	
morning rise	-3484 Oct 03 j 23:43	29°♌34'35		
	-3484 Oct 11 j 00:38	0°♍		
retrograde	-3483 Jan 03 j 06:47	2°♍52'42		
opposition	-3483 Mar 19 j 10:06	0°♍52'03	0°51'57	
min. Earth dist.	-3483 Mar 19 j 13:27	0°♍51'42	17.70840 AU	
	-3483 Apr 09 j 20:07	30°℞♌		
direct	-3483 Jun 04 j 19:40	28°♌48'26		
	-3483 Jul 28 j 02:11	0°♍		
evening set	-3483 Sep 07 j 06:41	2°♍11'43		
conjunction	-3483 Sep 23 j 01:03	3°♍10'12	0°46'09	
minimum elong	-3483 Sep 23 j 01:03	3°♍10'12	0°46'12	
max. Earth dist.	-3483 Sep 22 j 22:10	3°♍09'45	19.73608 AU	
morning rise	-3483 Oct 08 j 16:51	4°♍08'20		
retrograde	-3482 Jan 08 j 00:19	7°♍25'54		
opposition	-3482 Mar 24 j 10:02	5°♍25'18	0°50'41	
min. Earth dist.	-3482 Mar 24 j 12:17	5°♍25'04	17.76458 AU	
direct	-3482 Jun 09 j 18:34	3°♍22'00		
evening set	-3482 Sep 12 j 00:27	6°♍44'04		
conjunction	-3482 Sep 27 j 17:52	7°♍42'14	0°44'53	
minimum elong	-3482 Sep 27 j 17:52	7°♍42'14	0°44'57	
max. Earth dist.	-3482 Sep 27 j 16:38	7°♍42'03	19.79377 AU	

Attention, astronomical year style is used: The year -3482 in astronomical counting style is the year 3483 BCE in historical counting style.

morning rise	-3482 Oct 13 j 09:14	8°♍40'06	
retrograde	-3481 Jan 12 j 19:53	11°♍57'07	
opposition	-3481 Mar 29 j 09:25	9°♍56'34	0°49'07
min. Earth dist.	-3481 Mar 29 j 08:17	9°♍56'41	17.82368 AU
direct	-3481 Jun 14 j 18:08	7°♍53'35	
evening set	-3481 Sep 16 j 17:00	11°♍14'23	
conjunction	-3481 Oct 02 j 09:46	12°♍12'16	0°43'22
minimum elong	-3481 Oct 02 j 09:46	12°♍12'16	0°43'24
max. Earth dist.	-3481 Oct 02 j 11:58	12°♍12'36	19.85430 AU
morning rise	-3481 Oct 18 j 00:30	13°♍09'52	
retrograde	-3480 Jan 17 j 12:51	16°♍26'20	
opposition	-3480 Apr 02 j 08:20	14°♍25'51	0°47'16
min. Earth dist.	-3480 Apr 02 j 05:42	14°♍26'07	17.88567 AU
direct	-3480 Jun 18 j 15:27	12°♍23'15	
evening set	-3480 Sep 20 j 08:49	15°♍42'46	
conjunction	-3480 Oct 06 j 00:46	16°♍40'21	0°41'36
minimum elong	-3480 Oct 06 j 00:46	16°♍40'21	0°41'38
max. Earth dist.	-3480 Oct 06 j 04:30	16°♍40'55	19.91776 AU
morning rise	-3480 Oct 21 j 15:16	17°♍37'42	
retrograde	-3479 Jan 21 j 07:12	20°♍53'37	
opposition	-3479 Apr 07 j 06:16	18°♍53'13	0°45'09
min. Earth dist.	-3479 Apr 07 j 00:24	18°♍53'49	17.95044 AU
direct	-3479 Jun 23 j 12:34	16°♍51'01	
evening set	-3479 Sep 24 j 23:31	20°♍09'16	
conjunction	-3479 Oct 10 j 15:03	21°♍06'33	0°39'36
minimum elong	-3479 Oct 10 j 15:03	21°♍06'33	0°39'37
max. Earth dist.	-3479 Oct 10 j 22:10	21°♍07'39	19.98366 AU
morning rise	-3479 Oct 26 j 05:07	22°♍03'39	
retrograde	-3478 Jan 25 j 23:35	25°♍19'01	
opposition	-3478 Apr 12 j 03:46	23°♍18'45	0°42'47
min. Earth dist.	-3478 Apr 11 j 20:22	23°♍19'30	18.01728 AU
direct	-3478 Jun 28 j 08:46	21°♍17'00	
evening set	-3478 Sep 29 j 13:28	24°♍33'58	
conjunction	-3478 Oct 15 j 04:18	25°♍30'58	0°37'22
minimum elong	-3478 Oct 15 j 04:18	25°♍30'58	0°37'23
max. Earth dist.	-3478 Oct 15 j 12:41	25°♍32'14	20.05141 AU
morning rise	-3478 Oct 30 j 18:18	26°♍27'50	
retrograde	-3477 Jan 30 j 16:51	29°♍42'40	
opposition	-3477 Apr 17 j 00:33	27°♍42'31	0°40'11
min. Earth dist.	-3477 Apr 16 j 14:17	27°♍43'34	18.08570 AU
direct	-3477 Jul 03 j 03:52	25°♍41'13	
evening set	-3477 Oct 04 j 02:28	28°♍56'54	
conjunction	-3477 Oct 19 j 17:01	29°♍53'38	0°34'56
minimum elong	-3477 Oct 19 j 17:02	29°♍53'38	0°34'58
max. Earth dist.	-3477 Oct 20 j 04:41	29°♍55'25	20.12029 AU
	-3477 Oct 21 j 10:42	0°♎	
morning rise	-3477 Nov 04 j 06:43	0°♎50'16	
retrograde	-3476 Feb 04 j 08:13	4°♎04'34	
opposition	-3476 Apr 20 j 20:46	2°♎04'34	0°37'21
min. Earth dist.	-3476 Apr 20 j 09:00	2°♎05'46	18.15484 AU
direct	-3476 Jul 06 j 23:05	0°♎03'44	
evening set	-3476 Oct 07 j 14:46	3°♎18'09	
conjunction	-3476 Oct 23 j 04:50	4°♎14'36	0°32'20
minimum elong	-3476 Oct 23 j 04:50	4°♎14'36	0°32'19
max. Earth dist.	-3476 Oct 23 j 17:23	4°♎16'31	20.18955 AU
morning rise	-3476 Nov 07 j 18:40	5°♎11'01	
retrograde	-3475 Feb 08 j 00:23	8°♎24'48	
opposition	-3475 Apr 25 j 16:11	6°♎24'56	0°34'20
min. Earth dist.	-3475 Apr 25 j 02:11	6°♎26'22	18.22403 AU
direct	-3475 Jul 11 j 16:19	4°♎24'33	
evening set	-3475 Oct 12 j 02:14	7°♎37'43	

conjunction	-3475 Oct 27 j 16:10	8°♎33'54	0°29'32
minimum elong	-3475 Oct 27 j 16:11	8°♎33'54	0°29'31
max. Earth dist.	-3475 Oct 28 j 07:35	8°♎36'14	20.25832 AU
morning rise	-3475 Nov 12 j 05:50	9°♎30'06	
retrograde	-3474 Feb 12 j 14:31	12°♎43'21	
opposition	-3474 Apr 30 j 10:51	10°♎43'38	0°31'08
min. Earth dist.	-3474 Apr 29 j 19:30	10°♎45'11	18.29225 AU
direct	-3474 Jul 16 j 10:16	8°♎43'41	
evening set	-3474 Oct 16 j 13:12	11°♎55'36	
conjunction	-3474 Nov 01 j 02:45	12°♎51'33	0°26'36
minimum elong	-3474 Nov 01 j 02:45	12°♎51'33	0°26'34
max. Earth dist.	-3474 Nov 01 j 18:41	12°♎53'57	20.32592 AU
morning rise	-3474 Nov 16 j 16:40	13°♎47'32	
retrograde	-3473 Feb 17 j 05:35	17°♎00'18	
min. Earth dist.	-3473 May 04 j 11:55	15°♎02'23	18.35911 AU
opposition	-3473 May 05 j 05:00	15°♎00'40	0°27'47
direct	-3473 Jul 21 j 01:55	13°♎01'07	
evening set	-3473 Oct 20 j 23:08	16°♎11'48	
conjunction	-3473 Nov 05 j 12:45	17°♎07'31	0°23'32
minimum elong	-3473 Nov 05 j 12:46	17°♎07'31	0°23'30
max. Earth dist.	-3473 Nov 06 j 07:15	17°♎10'18	20.39171 AU
morning rise	-3473 Nov 21 j 02:42	18°♎03'19	
retrograde	-3472 Feb 21 j 18:33	21°♎15'34	
opposition	-3472 May 08 j 22:22	19°♎16'01	0°24'18
min. Earth dist.	-3472 May 08 j 03:55	19°♎17'53	18.42374 AU
direct	-3472 Jul 24 j 18:37	17°♎16'51	
evening set	-3472 Oct 24 j 08:40	20°♎26'19	
conjunction	-3472 Nov 08 j 22:06	21°♎21'49	0°20'21
minimum elong	-3472 Nov 08 j 22:06	21°♎21'49	0°20'19
max. Earth dist.	-3472 Nov 09 j 16:50	21°♎24'37	20.45515 AU
morning rise	-3472 Nov 24 j 12:29	22°♎17'26	
retrograde	-3471 Feb 25 j 08:18	25°♎29'10	
opposition	-3471 May 13 j 14:49	23°♎29'40	0°20'43
min. Earth dist.	-3471 May 12 j 19:14	23°♎31'38	18.48600 AU
direct	-3471 Jul 29 j 08:34	21°♎30'49	
evening set	-3471 Oct 28 j 17:17	24°♎39'06	
conjunction	-3471 Nov 13 j 06:57	25°♎34'24	0°17'05
minimum elong	-3471 Nov 13 j 06:57	25°♎34'24	0°17'02
max. Earth dist.	-3471 Nov 14 j 03:58	25°♎37'32	20.51605 AU
morning rise	-3471 Nov 28 j 21:29	26°♎29'51	
retrograde	-3470 Mar 01 j 19:35	29°♎41'04	
min. Earth dist.	-3470 May 17 j 09:33	27°♎43'43	18.54554 AU
opposition	-3470 May 18 j 06:34	27°♎41'36	0°17'02
direct	-3470 Aug 02 j 23:36	25°♎43'04	
evening set	-3470 Nov 02 j 01:15	28°♎50'11	
conjunction	-3470 Nov 17 j 14:50	29°♎45'17	0°13'45
minimum elong	-3470 Nov 17 j 14:50	29°♎45'17	0°13'42
behind sun begin	-3470 Nov 17 j 11:11	29°♎44'45	
behind sun end	-3470 Nov 17 j 18:29	29°♎45'48	
max. Earth dist.	-3470 Nov 18 j 12:12	29°♎48'27	20.57436 AU
	-3470 Nov 21 j 17:56	0°♏	
morning rise	-3470 Dec 03 j 05:56	0°♏40'35	
retrograde	-3469 Mar 06 j 07:40	3°♏51'19	
opposition	-3469 May 22 j 21:39	1°♏51'50	0°13'18
min. Earth dist.	-3469 May 21 j 23:40	1°♏54'02	18.60278 AU
	-3469 Jul 22 j 11:23	30°℞♎	
direct	-3469 Aug 07 j 11:54	29°♎53'34	
	-3469 Aug 23 j 07:06	0°♏	
evening set	-3469 Nov 06 j 08:29	2°♏59'34	
conjunction	-3469 Nov 21 j 22:25	3°♏54'29	0°10'22
minimum elong	-3469 Nov 21 j 22:25	3°♏54'29	0°10'18

Attention, astronomical year style is used: The year -3469 in astronomical counting style is the year 3470 BCE in historical counting style.

behind sun begin	-3469 Nov 21 j 17:12	3°♏53'44	
behind sun end	-3469 Nov 22 j 03:39	3°♏55'14	
max. Earth dist.	-3469 Nov 22 j 22:10	3°♏58'00	20.63045 AU
morning rise	-3469 Dec 07 j 13:49	4°♏49'38	
retrograde	-3468 Mar 09 j 18:01	7°♏59'54	
opposition	-3468 May 26 j 11:44	6°♏00'25	0°09'31
min. Earth dist.	-3468 May 25 j 12:08	6°♏02'47	18.65782 AU
direct	-3468 Aug 11 j 00:56	4°♏02'25	
evening set	-3468 Nov 09 j 15:17	7°♏07'21	
conjunction	-3468 Nov 25 j 05:19	8°♏02'06	0°06'58
minimum elong	-3468 Nov 25 j 05:18	8°♏02'06	0°06'54
behind sun begin	-3468 Nov 24 j 23:13	8°♏01'14	
behind sun end	-3468 Nov 25 j 11:24	8°♏02'59	
max. Earth dist.	-3468 Nov 26 j 05:22	8°♏05'39	20.68445 AU
morning rise	-3468 Dec 10 j 21:23	8°♏57'08	
retrograde	-3467 Mar 14 j 04:25	12°♏06'57	
min. Earth dist.	-3467 May 30 j 00:55	10°♏09'55	18.71096 AU
opposition	-3467 May 31 j 01:11	10°♏07'29	0°05'44
direct	-3467 Aug 15 j 10:59	8°♏09'44	
evening set	-3467 Nov 13 j 21:24	11°♏13'42	
conjunction	-3467 Nov 29 j 11:53	12°♏08'18	0°03'33
minimum elong	-3467 Nov 29 j 11:53	12°♏08'18	0°03'28
behind sun begin	-3467 Nov 29 j 05:24	12°♏07'22	
behind sun end	-3467 Nov 29 j 18:22	12°♏09'13	
max. Earth dist.	-3467 Nov 30 j 14:08	12°♏12'09	20.73651 AU
morning rise	-3467 Dec 15 j 04:19	13°♏03'12	
	-3466 Jan 22 j 11:04	15°♏	
retrograde	-3466 Mar 18 j 14:29	16°♏12'37	
	-3466 May 15 j 13:30	15°℞♏	
min. Earth dist.	-3466 Jun 03 j 11:52	14°♏15'46	18.76197 AU
opposition	-3466 Jun 04 j 13:47	14°♏13'11	0°01'55
direct	-3466 Aug 19 j 22:27	12°♏15'42	
	-3466 Nov 12 j 14:41	15°♏	
evening set	-3466 Nov 18 j 03:17	15°♏18'44	
conjunction	-3466 Dec 03 j 17:58	16°♏13'13	0°00'03
minimum elong	-3466 Dec 03 j 17:58	16°♏13'13	0°00'02
behind sun begin	-3466 Dec 03 j 12:29	16°♏12'26	
behind sun end	-3466 Dec 03 j 23:27	16°♏13'59	
max. Earth dist.	-3466 Dec 04 j 20:24	16°♏17'05	20.78649 AU
desc. node	-3466 Dec 09 j 19:03	16°♏34'26	
morning rise	-3466 Dec 19 j 11:11	17°♏08'02	
retrograde	-3465 Mar 22 j 23:53	20°♏17'05	
min. Earth dist.	-3465 Jun 07 j 23:42	18°♏20'18	18.81095 AU
opposition	-3465 Jun 09 j 01:56	18°♏17'41	-0°01'52
direct	-3465 Aug 24 j 06:32	16°♏20'28	
evening set	-3465 Nov 22 j 08:32	19°♏22'39	
conjunction	-3465 Dec 07 j 23:51	20°♏17'01	-0°03'26
minimum elong	-3465 Dec 07 j 23:51	20°♏17'01	0°03'32
behind sun begin	-3465 Dec 07 j 17:22	20°♏16'05	
behind sun end	-3465 Dec 08 j 06:21	20°♏17'56	
max. Earth dist.	-3465 Dec 09 j 04:12	20°♏21'09	20.83420 AU
morning rise	-3465 Dec 23 j 17:36	21°♏11'45	
retrograde	-3464 Mar 26 j 09:55	24°♏20'28	
min. Earth dist.	-3464 Jun 11 j 09:42	22°♏23'54	18.85725 AU
opposition	-3464 Jun 12 j 13:20	22°♏21'08	-0°05'38
direct	-3464 Aug 27 j 16:25	20°♏24'12	
evening set	-3464 Nov 25 j 13:49	23°♏25'35	
conjunction	-3464 Dec 11 j 05:28	24°♏19'51	-0°06'49
minimum elong	-3464 Dec 11 j 05:28	24°♏19'51	0°06'55
behind sun begin	-3464 Dec 10 j 23:22	24°♏18'59	
behind sun end	-3464 Dec 11 j 11:33	24°♏20'43	
max. Earth dist.	-3464 Dec 12 j 09:36	24°♏23'56	20.87900 AU
morning rise	-3464 Dec 27 j 00:04	25°♏14'31	
retrograde	-3463 Mar 30 j 18:46	28°♏22'56	
min. Earth dist.	-3463 Jun 15 j 20:46	26°♏26'24	18.90056 AU
opposition	-3463 Jun 17 j 00:08	26°♏23'40	-0°09'22
direct	-3463 Aug 31 j 23:30	24°♏26'59	
evening set	-3463 Nov 29 j 18:41	27°♏27'40	
conjunction	-3463 Dec 15 j 11:01	28°♏21'51	-0°10'09
minimum elong	-3463 Dec 15 j 11:01	28°♏21'51	0°10'14
behind sun begin	-3463 Dec 15 j 05:46	28°♏21'06	
behind sun end	-3463 Dec 15 j 16:16	28°♏22'35	
max. Earth dist.	-3463 Dec 16 j 16:35	28°♏26'08	20.92054 AU
morning rise	-3463 Dec 31 j 06:13	29°♏16'27	
	-3462 Jan 13 j 10:54	0°♐	
retrograde	-3462 Apr 04 j 04:34	2°♐24'37	
min. Earth dist.	-3462 Jun 20 j 05:58	0°♐28'16	18.94017 AU
opposition	-3462 Jun 21 j 10:26	0°♐25'25	-0°13'02
	-3462 Jul 02 j 03:02	30°℞♏	
direct	-3462 Sep 05 j 07:50	28°♏28'58	
	-3462 Nov 05 j 11:41	0°♐	
evening set	-3462 Dec 03 j 23:27	1°♐29'00	
conjunction	-3462 Dec 19 j 16:13	2°♐23'07	-0°13'25
minimum elong	-3462 Dec 19 j 16:13	2°♐23'07	0°13'33
behind sun begin	-3462 Dec 19 j 12:30	2°♐22'35	
behind sun end	-3462 Dec 19 j 19:56	2°♐23'38	
max. Earth dist.	-3462 Dec 20 j 21:14	2°♐27'19	20.95812 AU
morning rise	-3461 Jan 04 j 12:22	3°♐17'42	
retrograde	-3461 Apr 08 j 13:20	6°♐25'38	
opposition	-3461 Jun 25 j 20:26	4°♐26'29	-0°16'38
min. Earth dist.	-3461 Jun 24 j 16:42	4°♐29'15	18.97568 AU
direct	-3461 Sep 09 j 14:24	2°♐30'13	
evening set	-3461 Dec 08 j 04:08	5°♐29'41	
conjunction	-3461 Dec 23 j 21:42	6°♐23'45	-0°16'38
minimum elong	-3461 Dec 23 j 21:42	6°♐23'45	0°16'44
max. Earth dist.	-3461 Dec 25 j 03:38	6°♐28'04	20.99126 AU
morning rise	-3460 Jan 08 j 18:31	7°♐18'18	
retrograde	-3460 Apr 11 j 22:56	10°♐26'02	
min. Earth dist.	-3460 Jun 28 j 01:16	8°♐29'45	19.00633 AU
opposition	-3460 Jun 29 j 05:39	8°♐26'55	-0°20'09
direct	-3460 Sep 12 j 21:54	6°♐30'49	
evening set	-3460 Dec 11 j 08:55	9°♐29'45	
conjunction	-3460 Dec 27 j 03:03	10°♐23'48	-0°19'46
minimum elong	-3460 Dec 27 j 03:02	10°♐23'48	0°19'53
max. Earth dist.	-3460 Dec 28 j 07:50	10°♐27'56	21.01925 AU
morning rise	-3459 Jan 12 j 00:52	11°♐18'21	
retrograde	-3459 Apr 16 j 07:12	14°♐25'54	
min. Earth dist.	-3459 Jul 02 j 11:34	12°♐29'29	19.03169 AU
opposition	-3459 Jul 03 j 14:41	12°♐26'47	-0°23'33
direct	-3459 Sep 17 j 03:43	10°♐30'47	
evening set	-3459 Dec 15 j 13:25	13°♐29'16	
conjunction	-3459 Dec 31 j 08:25	14°♐23'18	-0°22'47
minimum elong	-3459 Dec 31 j 08:25	14°♐23'18	0°22'55
max. Earth dist.	-3458 Jan 01 j 13:43	14°♐27'30	21.04179 AU
morning rise	-3458 Jan 16 j 06:58	15°♐17'50	
retrograde	-3458 Apr 20 j 16:35	18°♐25'14	
opposition	-3458 Jul 07 j 23:08	16°♐26'05	-0°26'50
min. Earth dist.	-3458 Jul 06 j 19:33	16°♐28'51	19.05137 AU
direct	-3458 Sep 21 j 11:07	14°♐30'08	
evening set	-3458 Dec 19 j 18:04	17°♐28'13	
conjunction	-3457 Jan 04 j 13:43	18°♐22'15	-0°25'42
minimum elong	-3457 Jan 04 j 13:43	18°♐22'15	0°25'49
max. Earth dist.	-3457 Jan 05 j 17:44	18°♐26'16	21.05872 AU

Attention, astronomical year style is used: The year -3457 in astronomical counting style is the year 3458 BCE in historical counting style.

morning rise	-3457 Jan	20 j 13:20	19°♐16'50	
retrograde	-3457 Apr	25 j 00:01	22°♐24'05	
min. Earth dist.	-3457 Jul	11 j 05:14	20°♐27'28	19.06565 AU
opposition	-3457 Jul	12 j 07:17	20°♐24'51	-0°29'59
direct	-3457 Sep	25 j 15:58	18°♐28'55	
evening set	-3457 Dec	23 j 22:30	21°♐26'39	
conjunction	-3456 Jan	08 j 19:11	22°♐20'43	-0°28'28
minimum elong	-3456 Jan	08 j 19:11	22°♐20'43	0°28'36
max. Earth dist.	-3456 Jan	09 j 23:35	22°♐24'47	21.07040 AU
morning rise	-3456 Jan	24 j 19:39	23°♐15'20	
retrograde	-3456 Apr	28 j 09:18	26°♐22'28	
opposition	-3456 Jul	15 j 14:51	24°♐23'09	-0°32'58
min. Earth dist.	-3456 Jul	14 j 12:29	24°♐25'48	19.07472 AU
direct	-3456 Sep	28 j 23:00	22°♐27'11	
evening set	-3456 Dec	27 j 03:12	25°♐24'40	
conjunction	-3455 Jan	12 j 00:34	26°♐18'46	-0°31'06
minimum elong	-3455 Jan	12 j 00:34	26°♐18'46	0°31'14
max. Earth dist.	-3455 Jan	13 j 03:38	26°♐22'37	21.07703 AU
morning rise	-3455 Jan	28 j 02:06	27°♐13'25	
	-3455 Apr	03 j 10:34	0°♑	
retrograde	-3455 May	02 j 16:08	0°♑20'30	
	-3455 Jun	01 j 08:59	30°℞♐	
opposition	-3455 Jul	19 j 22:04	28°♐21'05	-0°35'47
min. Earth dist.	-3455 Jul	18 j 21:19	28°♐23'34	19.07915 AU
direct	-3455 Oct	03 j 02:47	26°♐25'03	
evening set	-3455 Dec	31 j 07:47	29°♐22'22	
	-3454 Jan	11 j 10:28	0°♑	
conjunction	-3454 Jan	16 j 06:12	0°♑16'31	-0°33'35
minimum elong	-3454 Jan	16 j 06:12	0°♑16'31	0°33'43
max. Earth dist.	-3454 Jan	17 j 09:36	0°♑20'26	21.07934 AU
morning rise	-3454 Feb	01 j 08:33	1°♑11'15	
retrograde	-3454 May	07 j 01:11	4°♑18'17	
min. Earth dist.	-3454 Jul	23 j 03:48	2°♑21'19	19.07937 AU
opposition	-3454 Jul	24 j 04:57	2°♑18'47	-0°38'26
direct	-3454 Oct	07 j 09:13	0°♑22'42	
evening set	-3453 Jan	04 j 12:34	3°♑19'55	
conjunction	-3453 Jan	20 j 11:46	4°♑14'09	-0°35'54
minimum elong	-3453 Jan	20 j 11:46	4°♑14'09	0°36'01
max. Earth dist.	-3453 Jan	21 j 13:49	4°♑17'52	21.07754 AU
morning rise	-3453 Feb	05 j 15:16	5°♑08'58	
retrograde	-3453 May	11 j 08:40	8°♑16'03	
opposition	-3453 Jul	28 j 11:44	6°♑16'27	-0°40'54
min. Earth dist.	-3453 Jul	27 j 12:16	6°♑18'49	19.07571 AU
direct	-3453 Oct	11 j 12:33	4°♑20'18	
evening set	-3452 Jan	08 j 17:34	7°♑17'31	
conjunction	-3452 Jan	24 j 17:54	8°♑11'51	-0°38'02
minimum elong	-3452 Jan	24 j 17:54	8°♑11'51	0°38'10
max. Earth dist.	-3452 Jan	25 j 20:01	8°♑15'34	21.07201 AU
morning rise	-3452 Feb	09 j 22:16	9°♑06'46	
retrograde	-3452 May	14 j 17:37	12°♑13'54	
opposition	-3452 Jul	31 j 18:00	10°♑14'15	-0°43'10
min. Earth dist.	-3452 Jul	30 j 18:21	10°♑16'39	19.06825 AU
direct	-3452 Oct	14 j 18:22	8°♑18'03	
evening set	-3451 Jan	11 j 23:01	11°♑15'21	
conjunction	-3451 Jan	28 j 00:10	12°♑09'48	-0°40'00
minimum elong	-3451 Jan	28 j 00:10	12°♑09'48	0°40'07
max. Earth dist.	-3451 Jan	29 j 00:38	12°♑13'17	21.06268 AU
morning rise	-3451 Feb	13 j 05:40	13°♑04'50	
retrograde	-3451 May	19 j 02:00	16°♑12'06	
min. Earth dist.	-3451 Aug	04 j 02:40	14°♑14'36	19.05709 AU
opposition	-3451 Aug	05 j 00:26	14°♑12'23	-0°45'14
direct	-3451 Oct	18 j 21:39	12°♑16'07	
evening set	-3450 Jan	16 j 04:30	15°♑13'35	
conjunction	-3450 Feb	01 j 06:48	16°♑08'10	-0°41'47
minimum elong	-3450 Feb	01 j 06:48	16°♑08'10	0°41'54
max. Earth dist.	-3450 Feb	02 j 07:08	16°♑11'37	21.04967 AU
morning rise	-3450 Feb	17 j 13:10	17°♑03'19	
retrograde	-3450 May	23 j 11:15	20°♑10'46	
min. Earth dist.	-3450 Aug	08 j 08:53	18°♑13'14	19.04208 AU
opposition	-3450 Aug	09 j 06:42	18°♑11'01	-0°47'05
direct	-3450 Oct	23 j 03:03	16°♑14'41	
evening set	-3449 Jan	20 j 10:46	19°♑12'24	
conjunction	-3449 Feb	05 j 13:56	20°♑07'07	-0°43'22
minimum elong	-3449 Feb	05 j 13:56	20°♑07'07	0°43'29
max. Earth dist.	-3449 Feb	06 j 12:23	20°♑10'19	21.03270 AU
morning rise	-3449 Feb	21 j 21:26	21°♑02'26	
retrograde	-3449 May	27 j 20:00	24°♑10'05	
opposition	-3449 Aug	13 j 13:00	22°♑10'18	-0°48'44
min. Earth dist.	-3449 Aug	12 j 17:27	22°♑12'17	19.02309 AU
direct	-3449 Oct	27 j 06:55	20°♑13'52	
evening set	-3448 Jan	24 j 17:26	23°♑11'55	
conjunction	-3448 Feb	09 j 21:48	24°♑06'48	-0°44'44
minimum elong	-3448 Feb	09 j 21:48	24°♑06'48	0°44'51
max. Earth dist.	-3448 Feb	10 j 19:37	24°♑09'55	21.01164 AU
morning rise	-3448 Feb	26 j 06:11	25°♑02'16	
retrograde	-3448 May	31 j 06:10	28°♑10'10	
opposition	-3448 Aug	16 j 19:15	26°♑10'21	-0°50'08
min. Earth dist.	-3448 Aug	16 j 00:08	26°♑12'18	18.99970 AU
direct	-3448 Oct	30 j 12:24	24°♑13'47	
evening set	-3447 Jan	28 j 00:50	27°♑12'15	
conjunction	-3447 Feb	13 j 06:03	28°♑07'19	-0°45'54
minimum elong	-3447 Feb	13 j 06:03	28°♑07'19	0°46'02
max. Earth dist.	-3447 Feb	14 j 01:34	28°♑10'06	20.98586 AU
morning rise	-3447 Mar	01 j 15:29	29°♑02'58	
	-3447 Mar	19 j 10:49	0°♒	
retrograde	-3447 Jun	04 j 14:42	2°♒11'07	
min. Earth dist.	-3447 Aug	20 j 09:13	0°♒12'57	18.97154 AU
opposition	-3447 Aug	21 j 01:42	0°♒11'16	-0°51'18
	-3447 Aug	25 j 16:12	30°℞♑	
direct	-3447 Nov	03 j 17:01	28°♑14'32	
	-3446 Jan	08 j 23:56	0°♒	
evening set	-3446 Feb	01 j 08:41	1°♒13'28	
conjunction	-3446 Feb	17 j 15:05	2°♒08'44	-0°46'51
minimum elong	-3446 Feb	17 j 15:05	2°♒08'44	0°46'57
max. Earth dist.	-3446 Feb	18 j 09:30	2°♒11'21	20.95530 AU
morning rise	-3446 Mar	06 j 01:22	3°♒04'33	
retrograde	-3446 Jun	09 j 01:43	6°♒13'00	
opposition	-3446 Aug	25 j 08:11	4°♒13'03	-0°52'13
min. Earth dist.	-3446 Aug	24 j 16:24	4°♒14'40	18.93837 AU
direct	-3446 Nov	07 j 23:23	2°♒16'07	
evening set	-3445 Feb	05 j 17:14	5°♒15'34	
conjunction	-3445 Feb	22 j 00:35	6°♒11'02	-0°47'33
minimum elong	-3445 Feb	22 j 00:35	6°♒11'02	0°47'40
max. Earth dist.	-3445 Feb	22 j 16:23	6°♒13'17	20.91955 AU
morning rise	-3445 Mar	10 j 11:57	7°♒07'03	
retrograde	-3445 Jun	13 j 10:21	10°♒15'48	
opposition	-3445 Aug	29 j 14:59	8°♒15'44	-0°52'53
min. Earth dist.	-3445 Aug	29 j 02:03	8°♒17'04	18.90005 AU
direct	-3445 Nov	12 j 04:19	6°♒18'32	
evening set	-3444 Feb	10 j 02:23	9°♒18'34	
conjunction	-3444 Feb	26 j 10:55	10°♒14'14	-0°48'01

Attention, astronomical year style is used: The year -3444 in astronomical counting style is the year 3445 BCE in historical counting style.

minimum elong	-3444 Feb 26 j 10:55	10°♒14'14	0°48'07
max. Earth dist.	-3444 Feb 27 j 01:13	10°♒16'17	20.87885 AU
morning rise	-3444 Mar 13 j 23:07	11°♒10'27	
retrograde	-3444 Jun 16 j 21:48	14°♒19'31	
opposition	-3444 Sep 01 j 21:38	12°♒19'17	-0°53'17
min. Earth dist.	-3444 Sep 01 j 09:35	12°♒20'32	18.85688 AU
direct	-3444 Nov 15 j 12:03	10°♒21'47	
evening set	-3443 Feb 13 j 12:12	13°♒22'26	
conjunction	-3443 Mar 01 j 21:39	14°♒18'21	-0°48'15
minimum elong	-3443 Mar 01 j 21:39	14°♒18'21	0°48'21
max. Earth dist.	-3443 Mar 02 j 09:21	14°♒20'01	20.83348 AU
	-3443 Mar 14 j 01:43	15°♒	
morning rise	-3443 Mar 18 j 10:49	15°♒14'46	
retrograde	-3443 Jun 21 j 06:28	18°♒24'10	
opposition	-3443 Sep 06 j 04:41	16°♒23'46	-0°53'24
min. Earth dist.	-3443 Sep 05 j 19:26	16°♒24'43	18.80948 AU
	-3443 Oct 13 j 17:21	15°℞♒	
direct	-3443 Nov 19 j 17:14	14°♒25'55	
	-3443 Dec 26 j 03:16	15°♒	
evening set	-3442 Feb 17 j 22:20	17°♒27'15	
conjunction	-3442 Mar 06 j 08:56	18°♒23'24	-0°48'14
minimum elong	-3442 Mar 06 j 08:56	18°♒23'24	0°48'20
max. Earth dist.	-3442 Mar 06 j 19:14	18°♒24'52	20.78433 AU
morning rise	-3442 Mar 22 j 22:55	19°♒20'02	
retrograde	-3442 Jun 25 j 18:35	22°♒29'47	
opposition	-3442 Sep 10 j 11:48	20°♒29'11	-0°53'16
min. Earth dist.	-3442 Sep 10 j 03:19	20°♒30'04	18.75855 AU
direct	-3442 Nov 24 j 01:51	18°♒30'59	
evening set	-3441 Feb 22 j 09:29	21°♒33'04	
conjunction	-3441 Mar 10 j 21:00	22°♒29'28	-0°47'58
minimum elong	-3441 Mar 10 j 21:00	22°♒29'28	0°48'03
max. Earth dist.	-3441 Mar 11 j 04:52	22°♒30'36	20.73184 AU
morning rise	-3441 Mar 27 j 11:51	23°♒26'21	
retrograde	-3441 Jun 30 j 04:05	26°♒36'28	
opposition	-3441 Sep 14 j 19:12	24°♒35'41	-0°52'51
min. Earth dist.	-3441 Sep 14 j 13:26	24°♒36'17	18.70472 AU
direct	-3441 Nov 28 j 07:50	22°♒37'06	
evening set	-3440 Feb 26 j 21:15	25°♒40'01	
conjunction	-3440 Mar 14 j 09:50	26°♒36'41	-0°47'28
minimum elong	-3440 Mar 14 j 09:50	26°♒36'41	0°47'33
max. Earth dist.	-3440 Mar 14 j 16:06	26°♒37'35	20.67688 AU
morning rise	-3440 Mar 31 j 01:26	27°♒33'47	
	-3440 May 22 j 00:42	0°♓	
retrograde	-3440 Jul 03 j 17:03	0°♓44'19	
	-3440 Aug 15 j 22:27	30°℞♒	
opposition	-3440 Sep 18 j 02:51	28°♒43'22	-0°52'09
min. Earth dist.	-3440 Sep 17 j 21:49	28°♒43'54	18.64862 AU
direct	-3440 Dec 01 j 16:49	26°♒44'25	
evening set	-3439 Mar 02 j 09:47	29°♒48'14	
	-3439 Mar 05 j 21:00	0°♓	
conjunction	-3439 Mar 18 j 23:12	0°♓45'09	-0°46'42
minimum elong	-3439 Mar 18 j 23:12	0°♓45'09	0°46'46
max. Earth dist.	-3439 Mar 19 j 03:13	0°♓45'44	20.61974 AU
morning rise	-3439 Apr 04 j 15:31	1°♓42'30	
retrograde	-3439 Jul 08 j 03:56	4°♓53'29	
opposition	-3439 Sep 22 j 11:02	2°♓52'24	-0°51'12
min. Earth dist.	-3439 Sep 22 j 08:32	2°♓52'40	18.59067 AU
direct	-3439 Dec 05 j 23:53	0°♓53'05	
evening set	-3438 Mar 06 j 23:03	3°♓57'51	
conjunction	-3438 Mar 23 j 13:28	4°♓55'04	-0°45'42
minimum elong	-3438 Mar 23 j 13:28	4°♓55'04	0°45'46
max. Earth dist.	-3438 Mar 23 j 15:46	4°♓55'24	20.56119 AU
morning rise	-3438 Apr 09 j 06:27	5°♓52'40	
retrograde	-3438 Jul 12 j 17:55	9°♓04'08	
opposition	-3438 Sep 26 j 19:28	7°♓02'55	-0°49'58
min. Earth dist.	-3438 Sep 26 j 17:41	7°♓03'06	18.53144 AU
direct	-3438 Dec 10 j 09:31	5°♓03'15	
evening set	-3437 Mar 11 j 13:18	8°♓09'03	
conjunction	-3437 Mar 28 j 04:34	9°♓06'33	-0°44'27
minimum elong	-3437 Mar 28 j 04:34	9°♓06'33	0°44'30
max. Earth dist.	-3437 Mar 28 j 04:43	9°♓06'35	20.50132 AU
morning rise	-3437 Apr 13 j 22:11	10°♓04'25	
retrograde	-3437 Jul 17 j 06:24	13°♓16'24	
opposition	-3437 Oct 01 j 04:36	11°♓15'05	-0°48'28
min. Earth dist.	-3437 Oct 01 j 05:25	11°♓15'00	18.47099 AU
direct	-3437 Dec 14 j 17:46	9°♓15'06	
evening set	-3436 Mar 15 j 04:28	12°♓22'00	
conjunction	-3436 Mar 31 j 20:34	13°♓19'48	-0°42'58
minimum elong	-3436 Mar 31 j 20:34	13°♓19'48	0°43'00
max. Earth dist.	-3436 Mar 31 j 18:39	13°♓19'31	20.44044 AU
morning rise	-3436 Apr 17 j 14:45	14°♓17'55	
retrograde	-3436 Jul 20 j 21:44	17°♓30'26	
opposition	-3436 Oct 04 j 14:03	15°♓29'04	-0°46'41
min. Earth dist.	-3436 Oct 04 j 15:48	15°♓28'53	18.40953 AU
direct	-3436 Dec 18 j 04:43	13°♓28'45	
evening set	-3435 Mar 19 j 20:37	16°♓36'49	
conjunction	-3435 Apr 05 j 13:28	17°♓34'55	-0°41'14
minimum elong	-3435 Apr 05 j 13:28	17°♓34'55	0°41'16
max. Earth dist.	-3435 Apr 05 j 09:30	17°♓34'20	20.37839 AU
morning rise	-3435 Apr 22 j 08:03	18°♓33'18	
retrograde	-3435 Jul 25 j 11:34	21°♓46'23	
opposition	-3435 Oct 09 j 00:20	19°♓44'59	-0°44'38
min. Earth dist.	-3435 Oct 09 j 04:46	19°♓44'30	18.34692 AU
direct	-3435 Dec 22 j 14:13	17°♓44'21	
evening set	-3434 Mar 24 j 13:37	20°♓53'36	
conjunction	-3434 Apr 10 j 07:10	21°♓52'01	-0°39'15
minimum elong	-3434 Apr 10 j 07:10	21°♓52'01	0°39'15
max. Earth dist.	-3434 Apr 10 j 00:43	21°♓51'04	20.31526 AU
morning rise	-3434 Apr 27 j 02:16	22°♓50'40	
retrograde	-3434 Jul 30 j 04:31	26°♓04'20	
opposition	-3434 Oct 13 j 11:09	24°♓02'52	-0°42'19
min. Earth dist.	-3434 Oct 13 j 16:50	24°♓02'15	18.28306 AU
direct	-3434 Dec 27 j 02:42	22°♓01'53	
evening set	-3433 Mar 29 j 07:51	25°♓12'23	
conjunction	-3433 Apr 15 j 02:04	26°♓11'06	-0°37'02
minimum elong	-3433 Apr 15 j 02:05	26°♓11'06	0°37'02
max. Earth dist.	-3433 Apr 14 j 17:30	26°♓09'51	20.25056 AU
morning rise	-3433 May 01 j 21:23	27°♓10'01	
	-3433 Jul 04 j 03:54	0°♈	
retrograde	-3433 Aug 03 j 19:54	0°♈24'16	
	-3433 Sep 03 j 18:05	30°℞♓	
opposition	-3433 Oct 17 j 22:41	28°♓22'44	-0°39'45
min. Earth dist.	-3433 Oct 18 j 07:11	28°♓21'49	18.21763 AU
direct	-3433 Dec 31 j 14:08	26°♓21'23	
evening set	-3432 Apr 02 j 03:03	29°♓33'09	
	-3432 Apr 09 j 19:42	0°♈	
conjunction	-3432 Apr 18 j 21:47	0°♈32'10	-0°34'35
minimum elong	-3432 Apr 18 j 21:47	0°♈32'10	0°34'34
max. Earth dist.	-3432 Apr 18 j 10:13	0°♈30'28	20.18448 AU
morning rise	-3432 May 05 j 17:26	1°♈31'21	
retrograde	-3432 Aug 07 j 13:50	4°♈46'09	
opposition	-3432 Oct 21 j 10:56	2°♈44'31	-0°36'55

Attention, astronomical year style is used: The year -3432 in astronomical counting style is the year 3433 BCE in historical counting style.

min. Earth dist.	-3432 Oct 21 j 20:49	2°♈43'27	18.15088 AU
direct	-3431 Jan 04 j 04:05	0°♈42'47	
evening set	-3431 Apr 06 j 22:55	3°♈55'48	
conjunction	-3431 Apr 23 j 18:13	4°♈55'07	-0°31'55
minimum elong	-3431 Apr 23 j 18:13	4°♈55'07	0°31'54
max. Earth dist.	-3431 Apr 23 j 04:55	4°♈53'09	20.11707 AU
morning rise	-3431 May 10 j 13:52	5°♈54'33	
retrograde	-3431 Aug 12 j 06:38	9°♈09'54	
opposition	-3431 Oct 25 j 23:56	7°♈08'10	-0°33'51
min. Earth dist.	-3431 Oct 26 j 12:19	7°♈06'50	18.08304 AU
direct	-3430 Jan 08 j 17:40	5°♈06'01	
evening set	-3430 Apr 11 j 19:51	8°♈20'18	
conjunction	-3430 Apr 28 j 15:27	9°♈19'54	-0°29'02
minimum elong	-3430 Apr 28 j 15:27	9°♈19'54	0°29'02
max. Earth dist.	-3430 Apr 27 j 23:06	9°♈17'28	20.04907 AU
morning rise	-3430 May 15 j 11:20	10°♈19'35	
retrograde	-3430 Aug 17 j 00:59	13°♈35'28	
opposition	-3430 Oct 30 j 13:22	11°♈33'35	-0°30'34
min. Earth dist.	-3430 Oct 31 j 03:10	11°♈32'06	18.01497 AU
direct	-3429 Jan 13 j 08:58	9°♈31'00	
evening set	-3429 Apr 16 j 17:34	12°♈46'33	
conjunction	-3429 May 03 j 13:38	13°♈46'27	-0°25'58
minimum elong	-3429 May 03 j 13:38	13°♈46'27	0°25'57
max. Earth dist.	-3429 May 02 j 20:01	13°♈43'49	19.98100 AU
morning rise	-3429 May 20 j 09:20	14°♈46'21	
retrograde	-3429 Aug 21 j 18:58	18°♈02'45	
opposition	-3429 Nov 04 j 03:41	16°♈00'45	-0°27'04
min. Earth dist.	-3429 Nov 04 j 19:34	15°♈59'02	17.94717 AU
direct	-3428 Jan 18 j 00:52	13°♈57'44	
evening set	-3428 Apr 20 j 16:08	17°♈14'33	
conjunction	-3428 May 07 j 12:14	18°♈14'42	-0°22'44
minimum elong	-3428 May 07 j 12:14	18°♈14'42	0°22'43
max. Earth dist.	-3428 May 06 j 15:42	18°♈11'37	19.91374 AU
morning rise	-3428 May 24 j 07:57	19°♈14'50	
retrograde	-3428 Aug 25 j 13:18	22°♈31'44	
opposition	-3428 Nov 07 j 18:34	20°♈29'35	-0°23'24
min. Earth dist.	-3428 Nov 08 j 11:43	20°♈27'44	17.88067 AU
direct	-3427 Jan 21 j 17:43	18°♈26'08	
evening set	-3427 Apr 25 j 15:18	21°♈44'13	
conjunction	-3427 May 12 j 11:41	22°♈44'38	-0°19'21
minimum elong	-3427 May 12 j 11:41	22°♈44'38	0°19'18
max. Earth dist.	-3427 May 11 j 14:32	22°♈41'27	19.84804 AU
morning rise	-3427 May 29 j 06:58	23°♈44'58	
retrograde	-3427 Aug 30 j 08:29	27°♈02'22	
opposition	-3427 Nov 12 j 10:14	25°♈00'06	-0°19'33
min. Earth dist.	-3427 Nov 13 j 04:51	24°♈58'05	17.81609 AU
direct	-3426 Jan 26 j 11:55	22°♈56'15	
evening set	-3426 Apr 30 j 15:18	26°♈15'34	
max. Earth dist.	-3426 May 16 j 11:45	27°♈12'38	19.78478 AU
conjunction	-3426 May 17 j 11:32	27°♈16'13	-0°15'50
minimum elong	-3426 May 17 j 11:32	27°♈16'13	0°15'46
morning rise	-3426 Jun 03 j 06:42	28°♈16'45	
	-3426 Jul 05 j 00:27	0°♉	
retrograde	-3426 Sep 04 j 03:12	1°♉34'38	
	-3426 Nov 06 j 09:22	30°℞♈	
opposition	-3426 Nov 17 j 02:37	29°♈32'16	-0°15'34
min. Earth dist.	-3426 Nov 17 j 22:26	29°♈30'07	17.75434 AU
direct	-3425 Jan 31 j 06:41	27°♈28'00	
	-3425 Apr 21 j 13:55	0°♉	
evening set	-3425 May 05 j 16:00	0°♉48'35	

conjunction	-3425 May 22 j 12:18	1°♉49'28	-0°12'11
minimum elong	-3425 May 22 j 12:18	1°♉49'28	0°12'07
behind sun begin	-3425 May 22 j 07:49	1°♉48'48	
behind sun end	-3425 May 22 j 16:47	1°♉50'08	
max. Earth dist.	-3425 May 21 j 12:20	1°♉45'50	19.72449 AU
morning rise	-3425 Jun 08 j 06:50	2°♉50'10	
retrograde	-3425 Sep 08 j 23:31	6°♉08'31	
opposition	-3425 Nov 21 j 19:46	4°♉06'05	-0°11'28
min. Earth dist.	-3425 Nov 22 j 16:31	4°♉03'50	17.69579 AU
direct	-3424 Feb 05 j 02:55	2°♉01'30	
evening set	-3424 May 09 j 17:35	5°♉23'17	
max. Earth dist.	-3424 May 25 j 11:12	6°♉20'22	19.66785 AU
conjunction	-3424 May 26 j 13:29	6°♉24'22	-0°08'28
minimum elong	-3424 May 26 j 13:29	6°♉24'22	0°08'23
behind sun begin	-3424 May 26 j 07:33	6°♉23'29	
behind sun end	-3424 May 26 j 19:25	6°♉25'15	
morning rise	-3424 Jun 12 j 07:37	7°♉25'14	
retrograde	-3424 Sep 12 j 19:29	10°♉44'03	
opposition	-3424 Nov 25 j 13:50	8°♉41'36	-0°07'16
min. Earth dist.	-3424 Nov 26 j 11:40	8°♉39'13	17.64124 AU
direct	-3423 Feb 08 j 23:17	6°♉36'42	
evening set	-3423 May 14 j 19:27	9°♉59'41	
conjunction	-3423 May 31 j 15:12	11°♉00'58	-0°04'39
minimum elong	-3423 May 31 j 15:12	11°♉00'58	0°04'36
behind sun begin	-3423 May 31 j 08:34	10°♉59'58	
behind sun end	-3423 May 31 j 21:50	11°♉01'57	
max. Earth dist.	-3423 May 30 j 13:07	10°♉56'58	19.61529 AU
morning rise	-3423 Jun 17 j 08:35	12°♉01'58	
	-3423 Aug 20 j 22:18	15°♉	
retrograde	-3423 Sep 17 j 17:25	15°♉21'14	
	-3423 Oct 15 j 19:34	15°℞♉	
opposition	-3423 Nov 30 j 08:37	13°♉18'48	-0°02'59
min. Earth dist.	-3423 Dec 01 j 06:53	13°♉16'22	17.59070 AU
direct	-3422 Feb 13 j 21:10	11°♉13'39	
evening set	-3422 May 19 j 22:21	14°♉37'48	
	-3422 May 26 j 01:27	15°♉	
conjunction	-3422 Jun 05 j 17:31	15°♉39'15	-0°00'44
minimum elong	-3422 Jun 05 j 17:32	15°♉39'15	0°00'39
behind sun begin	-3422 Jun 05 j 10:45	15°♉38'14	
behind sun end	-3422 Jun 06 j 00:18	15°♉40'15	
max. Earth dist.	-3422 Jun 04 j 13:29	15°♉34'56	19.56682 AU
morning rise	-3422 Jun 22 j 10:17	16°♉40'22	
asc. node	-3422 Aug 12 j 12:39	19°♉14'19	
retrograde	-3422 Sep 22 j 14:50	20°♉00'04	
opposition	-3422 Dec 05 j 04:08	17°♉57'41	0°01'22
min. Earth dist.	-3422 Dec 06 j 03:48	17°♉55'06	17.54437 AU
direct	-3421 Feb 18 j 18:44	15°♉52'19	
evening set	-3421 May 25 j 01:45	19°♉17'35	
conjunction	-3421 Jun 10 j 20:29	20°♉19'11	0°03'16
minimum elong	-3421 Jun 10 j 20:30	20°♉19'11	0°03'21
behind sun begin	-3421 Jun 10 j 13:46	20°♉18'10	
behind sun end	-3421 Jun 11 j 03:14	20°♉20'11	
max. Earth dist.	-3421 Jun 09 j 16:30	20°♉14'52	19.52242 AU
morning rise	-3421 Jun 27 j 12:22	21°♉20'25	
retrograde	-3421 Sep 27 j 14:24	24°♉40'30	
opposition	-3421 Dec 10 j 00:34	22°♉38'11	0°05'43
min. Earth dist.	-3421 Dec 11 j 00:23	22°♉35'35	17.50185 AU
direct	-3420 Feb 23 j 18:22	20°♉32'38	
evening set	-3420 May 29 j 05:40	23°♉58'56	
conjunction	-3420 Jun 14 j 23:39	25°♉00'39	0°07'10
minimum elong	-3420 Jun 14 j 23:39	25°♉00'39	0°07'16
behind sun begin	-3420 Jun 14 j 17:27	24°♉59'43	

Attention, astronomical year style is used: The year -3420 in astronomical counting style is the year 3421 BCE in historical counting style.

behind sun end	-3420 Jun	15 j 05:51	25°♉01'35	
max. Earth dist.	-3420 Jun	13 j 18:10	24°♉56'05	19.48172 AU
morning rise	-3420 Jul	01 j 14:37	26°♉01'57	
retrograde	-3420 Oct	01 j 12:47	29°♉22'25	
opposition	-3420 Dec	13 j 21:53	27°♉20'10	0°10'04
min. Earth dist.	-3420 Dec	14 j 23:09	27°♉17'24	17.46315 AU
direct	-3419 Feb	27 j 17:14	25°♉14'25	
evening set	-3419 Jun	03 j 09:58	28°♉41'41	
max. Earth dist.	-3419 Jun	18 j 21:39	29°♉38'54	19.44482 AU
conjunction	-3419 Jun	20 j 03:17	29°♉43'30	0°11'02
minimum elong	-3419 Jun	20 j 03:16	29°♉43'29	0°11'08
behind sun begin	-3419 Jun	19 j 22:18	29°♉42'44	
behind sun end	-3419 Jun	20 j 08:14	29°♉44'15	
	-3419 Jun	24 j 13:28	0°♊	
morning rise	-3419 Jul	06 j 17:14	0°♊44'51	
retrograde	-3419 Oct	06 j 13:25	4°♊05'38	
opposition	-3419 Dec	18 j 19:45	2°♊03'26	0°14'22
min. Earth dist.	-3419 Dec	19 j 20:46	2°♊00'42	17.42806 AU
	-3418 Feb	23 j 01:15	30°℞♉	
direct	-3418 Mar	04 j 18:47	29°♉57'30	
	-3418 Mar	14 j 10:03	0°♊	
evening set	-3418 Jun	08 j 14:41	3°♊25'38	
max. Earth dist.	-3418 Jun	24 j 00:40	4°♊22'46	19.41151 AU
conjunction	-3418 Jun	25 j 07:08	4°♊27'31	0°14'51
minimum elong	-3418 Jun	25 j 07:08	4°♊27'31	0°14'57
behind sun begin	-3418 Jun	25 j 04:50	4°♊27'10	
behind sun end	-3418 Jun	25 j 09:26	4°♊27'52	
morning rise	-3418 Jul	11 j 20:01	5°♊28'54	
retrograde	-3418 Oct	11 j 12:04	8°♊49'56	
opposition	-3418 Dec	23 j 18:31	6°♊47'47	0°18'35
min. Earth dist.	-3418 Dec	24 j 20:56	6°♊44'54	17.39674 AU
direct	-3417 Mar	09 j 18:39	4°♊41'41	
evening set	-3417 Jun	13 j 19:34	8°♊10'35	
max. Earth dist.	-3417 Jun	29 j 04:20	9°♊07'41	19.38213 AU
conjunction	-3417 Jun	30 j 11:03	9°♊12'29	0°18'34
minimum elong	-3417 Jun	30 j 11:03	9°♊12'29	0°18'42
morning rise	-3417 Jul	16 j 22:51	10°♊13'53	
retrograde	-3417 Oct	16 j 13:24	13°♊35'08	
opposition	-3417 Dec	28 j 17:45	11°♊33'00	0°22'42
min. Earth dist.	-3417 Dec	29 j 19:26	11°♊30'12	17.36936 AU
direct	-3416 Mar	13 j 22:02	9°♊26'45	
evening set	-3416 Jun	18 j 00:30	12°♊56'18	
max. Earth dist.	-3416 Jul	03 j 08:30	13°♊53'26	19.35686 AU
conjunction	-3416 Jul	04 j 15:02	13°♊58'13	0°22'11
minimum elong	-3416 Jul	04 j 15:02	13°♊58'13	0°22'18
morning rise	-3416 Jul	21 j 01:33	14°♊59'35	
retrograde	-3416 Oct	20 j 12:05	18°♊20'59	
opposition	-3415 Jan	01 j 17:42	16°♊18'53	0°26'39
min. Earth dist.	-3415 Jan	02 j 20:24	16°♊15'58	17.34645 AU
direct	-3415 Mar	18 j 22:48	14°♊12'30	
evening set	-3415 Jun	23 j 05:16	17°♊42'35	
max. Earth dist.	-3415 Jul	08 j 11:57	18°♊39'39	19.33637 AU
conjunction	-3415 Jul	09 j 18:39	18°♊44'28	0°25'39
minimum elong	-3415 Jul	09 j 18:39	18°♊44'28	0°25'46
morning rise	-3415 Jul	26 j 04:07	19°♊45'47	
retrograde	-3415 Oct	25 j 13:15	23°♊07'18	
opposition	-3414 Jan	06 j 17:55	21°♊05'12	0°30'26
min. Earth dist.	-3414 Jan	07 j 19:27	21°♊02'25	17.32838 AU
direct	-3414 Mar	24 j 03:28	18°♊58'42	
evening set	-3414 Jun	28 j 09:58	22°♊29'12	
conjunction	-3414 Jul	14 j 22:19	23°♊31'02	0°28'56
minimum elong	-3414 Jul	14 j 22:19	23°♊31'02	0°29'05
max. Earth dist.	-3414 Jul	13 j 16:51	23°♊26'24	19.32082 AU
morning rise	-3414 Jul	31 j 06:23	24°♊32'17	
retrograde	-3414 Oct	30 j 11:36	27°♊53'50	
opposition	-3413 Jan	11 j 18:40	25°♊51'46	0°34'00
min. Earth dist.	-3413 Jan	12 j 20:45	25°♊48'55	17.31558 AU
direct	-3413 Mar	29 j 05:30	23°♊45'11	
evening set	-3413 Jul	03 j 14:31	27°♊15'59	
max. Earth dist.	-3413 Jul	18 j 20:03	28°♊13'05	19.31091 AU
conjunction	-3413 Jul	20 j 01:31	28°♊17'44	0°32'02
minimum elong	-3413 Jul	20 j 01:31	28°♊17'44	0°32'09
morning rise	-3413 Aug	05 j 08:27	29°♊18'52	
	-3413 Aug	16 j 17:54	0°♋	
retrograde	-3413 Nov	04 j 12:24	2°♋40'27	
opposition	-3412 Jan	16 j 19:48	0°♋38'24	0°37'19
min. Earth dist.	-3412 Jan	17 j 20:14	0°♋35'44	17.30864 AU
	-3412 Jan	31 j 18:44	30°℞♊	
direct	-3412 Apr	02 j 11:25	28°♊31'46	
	-3412 May	31 j 17:56	0°♋	
evening set	-3412 Jul	07 j 18:25	2°♋02'45	
max. Earth dist.	-3412 Jul	23 j 01:08	3°♋00'06	19.30697 AU
conjunction	-3412 Jul	24 j 04:19	3°♋04'23	0°34'54
minimum elong	-3412 Jul	24 j 04:19	3°♋04'23	0°35'01
morning rise	-3412 Aug	09 j 09:48	4°♋05'25	
retrograde	-3412 Nov	08 j 10:36	7°♋26'58	
opposition	-3411 Jan	20 j 21:23	5°♋24'58	0°40'24
min. Earth dist.	-3411 Jan	21 j 21:34	5°♋22'20	17.30786 AU
direct	-3411 Apr	07 j 14:36	3°♋18'21	
evening set	-3411 Jul	12 j 22:12	6°♋49'24	
max. Earth dist.	-3411 Jul	28 j 03:45	7°♋46'39	19.30946 AU
conjunction	-3411 Jul	29 j 06:40	7°♋50'54	0°37'31
minimum elong	-3411 Jul	29 j 06:40	7°♋50'54	0°37'38
morning rise	-3411 Aug	14 j 11:02	8°♋51'47	
retrograde	-3411 Nov	13 j 10:55	12°♋13'17	
opposition	-3410 Jan	25 j 22:55	10°♋11'21	0°43'11
min. Earth dist.	-3410 Jan	26 j 21:18	10°♋08'56	17.31363 AU
direct	-3410 Apr	12 j 19:49	8°♋04'49	
evening set	-3410 Jul	18 j 01:27	11°♋35'50	
max. Earth dist.	-3410 Aug	02 j 08:32	12°♋33'21	19.31845 AU
conjunction	-3410 Aug	03 j 08:48	12°♋37'11	0°39'53
minimum elong	-3410 Aug	03 j 08:48	12°♋37'11	0°40'00
morning rise	-3410 Aug	19 j 11:43	13°♋37'55	
retrograde	-3410 Nov	18 j 10:07	16°♋59'18	
opposition	-3409 Jan	31 j 01:01	14°♋57'31	0°45'40
min. Earth dist.	-3409 Jan	31 j 22:32	14°♋55'11	17.32571 AU
direct	-3409 Apr	17 j 23:30	12°♋51'08	
evening set	-3409 Jul	23 j 04:19	16°♋22'00	
max. Earth dist.	-3409 Aug	07 j 10:31	17°♋19'25	19.33374 AU
conjunction	-3409 Aug	08 j 10:11	17°♋23'10	0°41'59
minimum elong	-3409 Aug	08 j 10:10	17°♋23'10	0°42'07
morning rise	-3409 Aug	24 j 11:58	18°♋23'43	
retrograde	-3409 Nov	23 j 10:14	21°♋44'59	
opposition	-3408 Feb	05 j 03:13	19°♋43'21	0°47'51
min. Earth dist.	-3408 Feb	05 j 23:00	19°♋41'13	17.34404 AU
direct	-3408 Apr	22 j 03:02	17°♋37'09	
evening set	-3408 Jul	27 j 06:32	21°♋07'46	
conjunction	-3408 Aug	12 j 11:14	22°♋08'44	0°43'47
minimum elong	-3408 Aug	12 j 11:14	22°♋08'44	0°43'54
max. Earth dist.	-3408 Aug	11 j 14:25	22°♋05'26	19.35498 AU
morning rise	-3408 Aug	28 j 11:40	23°♋09'06	
retrograde	-3408 Nov	27 j 10:30	26°♋30'11	

Attention, astronomical year style is used: The year -3407 in astronomical counting style is the year 3408 BCE in historical counting style.

opposition	-3407 Feb 09 j 05:33	24°♋28'42	0°49'42
min. Earth dist.	-3407 Feb 09 j 23:59	24°♋26'44	17.36793 AU
direct	-3407 Apr 27 j 06:55	22°♋22'45	
evening set	-3407 Aug 01 j 08:17	25°♋52'59	
conjunction	-3407 Aug 17 j 11:35	26°♋53'44	0°45'18
minimum elong	-3407 Aug 17 j 11:35	26°♋53'44	0°45'25
max. Earth dist.	-3407 Aug 16 j 15:35	26°♋50'34	19.38151 AU
morning rise	-3407 Sep 02 j 10:56	27°♋53'54	
	-3407 Oct 10 j 19:34	0°♌	
retrograde	-3407 Dec 02 j 09:55	1°♌14'46	
	-3406 Jan 26 j 17:20	30°℞♋	
opposition	-3406 Feb 14 j 08:00	29°♋13'27	0°51'12
min. Earth dist.	-3406 Feb 15 j 01:02	29°♋11'37	17.39694 AU
direct	-3406 May 02 j 09:24	27°♋07'44	
	-3406 Jul 27 j 00:53	0°♌	
evening set	-3406 Aug 06 j 09:21	0°♌37'29	
conjunction	-3406 Aug 22 j 11:26	1°♌37'59	0°46'29
minimum elong	-3406 Aug 22 j 11:26	1°♌37'59	0°46'36
max. Earth dist.	-3406 Aug 21 j 18:03	1°♌35'14	19.41278 AU
morning rise	-3406 Sep 07 j 09:32	2°♌37'55	
retrograde	-3406 Dec 07 j 10:07	5°♌58'31	
opposition	-3405 Feb 19 j 10:26	3°♌57'21	0°52'21
min. Earth dist.	-3405 Feb 20 j 01:37	3°♌55'44	17.43024 AU
direct	-3405 May 07 j 14:01	1°♌51'55	
evening set	-3405 Aug 11 j 09:50	5°♌21'02	
conjunction	-3405 Aug 27 j 10:34	6°♌21'17	0°47'22
minimum elong	-3405 Aug 27 j 10:34	6°♌21'17	0°47'28
max. Earth dist.	-3405 Aug 26 j 18:23	6°♌18'44	19.44817 AU
morning rise	-3405 Sep 12 j 07:36	7°♌20'59	
retrograde	-3405 Dec 12 j 08:08	10°♌41'17	
opposition	-3404 Feb 24 j 12:55	8°♌40'13	0°53'08
min. Earth dist.	-3404 Feb 25 j 02:55	8°♌38'44	17.46765 AU
direct	-3404 May 11 j 16:27	6°♌35'04	
evening set	-3404 Aug 15 j 09:17	10°♌03'27	
conjunction	-3404 Aug 31 j 08:53	11°♌03'26	0°47'55
minimum elong	-3404 Aug 31 j 08:52	11°♌03'26	0°48'01
max. Earth dist.	-3404 Aug 30 j 19:02	11°♌01'15	19.48742 AU
morning rise	-3404 Sep 16 j 04:52	12°♌02'52	
	-3404 Nov 17 j 13:06	15°♌	
retrograde	-3404 Dec 16 j 07:11	15°♌22'48	
	-3403 Jan 14 j 15:39	15°℞♌	
opposition	-3403 Feb 28 j 15:05	13°♌21'51	0°53'33
min. Earth dist.	-3403 Mar 01 j 02:41	13°♌20'37	17.50847 AU
direct	-3403 May 16 j 21:17	11°♌16'59	
evening set	-3403 Aug 20 j 08:05	14°♌44'31	
	-3403 Aug 24 j 12:19	15°♌	
conjunction	-3403 Sep 05 j 06:29	15°♌44'13	0°48'08
minimum elong	-3403 Sep 05 j 06:29	15°♌44'13	0°48'13
max. Earth dist.	-3403 Sep 04 j 18:17	15°♌42'18	19.52990 AU
morning rise	-3403 Sep 21 j 01:29	16°♌43'25	
retrograde	-3403 Dec 21 j 03:38	20°♌02'56	
opposition	-3402 Mar 05 j 16:55	18°♌02'04	0°53'37
min. Earth dist.	-3402 Mar 06 j 03:33	18°♌00'56	17.55258 AU
direct	-3402 May 21 j 22:55	15°♌57'28	
evening set	-3402 Aug 25 j 05:56	19°♌24'05	
conjunction	-3402 Sep 10 j 03:14	20°♌23'29	0°48'02
minimum elong	-3402 Sep 10 j 03:14	20°♌23'29	0°48'08
max. Earth dist.	-3402 Sep 09 j 17:06	20°♌21'54	19.57565 AU
morning rise	-3402 Sep 25 j 21:22	21°♌22'25	
retrograde	-3402 Dec 26 j 01:28	24°♌41'29	
opposition	-3401 Mar 10 j 18:26	22°♌40'41	0°53'19
min. Earth dist.	-3401 Mar 11 j 02:13	22°♌39'51	17.59972 AU
direct	-3401 May 27 j 03:02	20°♌36'22	
evening set	-3401 Aug 30 j 02:39	24°♌01'56	
conjunction	-3401 Sep 14 j 22:56	25°♌01'03	0°47'38
minimum elong	-3401 Sep 14 j 22:56	25°♌01'03	0°47'42
max. Earth dist.	-3401 Sep 14 j 15:11	24°♌59'50	19.62434 AU
morning rise	-3401 Sep 30 j 16:13	25°♌59'43	
retrograde	-3401 Dec 30 j 20:36	29°♌18'19	
opposition	-3400 Mar 14 j 19:40	27°♌17'33	0°52'40
min. Earth dist.	-3400 Mar 15 j 02:20	27°♌16'51	17.65002 AU
direct	-3400 May 31 j 03:38	25°♌13'32	
evening set	-3400 Sep 02 j 22:27	28°♌38'00	
conjunction	-3400 Sep 18 j 17:43	29°♌36'47	0°46'55
minimum elong	-3400 Sep 18 j 17:43	29°♌36'48	0°46'59
max. Earth dist.	-3400 Sep 18 j 11:57	29°♌35'54	19.67631 AU
	-3400 Sep 24 j 22:18	0°♍	
morning rise	-3400 Oct 04 j 10:21	0°♍35'12	
retrograde	-3399 Jan 03 j 17:07	3°♍53'16	
opposition	-3399 Mar 19 j 20:02	1°♍52'33	0°51'42
min. Earth dist.	-3399 Mar 19 j 23:30	1°♍52'11	17.70351 AU
	-3399 May 15 j 03:58	30°℞♌	
direct	-3399 Jun 05 j 05:51	29°♌48'50	
	-3399 Jun 25 j 21:51	0°♍	
evening set	-3399 Sep 07 j 17:10	3°♍12'08	
conjunction	-3399 Sep 23 j 11:36	4°♍10'39	0°45'54
minimum elong	-3399 Sep 23 j 11:36	4°♍10'39	0°45'58
max. Earth dist.	-3399 Sep 23 j 08:45	4°♍10'12	19.73143 AU
morning rise	-3399 Oct 09 j 03:30	5°♍08'47	
retrograde	-3398 Jan 08 j 11:01	8°♍26'20	