Attention, astronomical year style is used: The year -10900 in astronomical counting style is the year 10901 BCE in historical counting style.

	-10900 Mar 07 j 11:16	0°♒	
evening set	-10900 Mar 26 j 22:29	1°♒07'51	
max. Earth dist.	-10900 Apr 11 j 02:56	2°♒04'04	19.40673 AU
conjunction	-10900 Apr 12 j 14:40	2°♒09'38	-0°56'20
minimum elong	-10900 Apr 12 j 14:40	2°♒09'38	0°56'53
morning rise	-10900 Apr 29 j 02:53	3°♒10'55	
retrograde	-10900 Jul 29 j 15:32	6°♒31'39	
opposition	-10900 Oct 10 j 19:37	4°♒29'28	-1°00'57
min. Earth dist.	-10900 Oct 12 j 02:40	4°♒26'04	17.38363 AU
direct	-10900 Dec 25 j 23:43	2°♒22'54	
evening set	-10899 Apr 01 j 03:13	5°♒52'19	
max. Earth dist.	-10899 Apr 16 j 05:31	6°♒48'27	19.36042 AU
conjunction	-10899 Apr 17 j 18:23	6°♒54'13	-0°52'43
minimum elong	-10899 Apr 17 j 18:23	6°♒54'13	0°53'13
morning rise	-10899 May 04 j 05:44	7°♒55'34	
retrograde	-10899 Aug 03 j 15:53	11°♒16'42	
opposition	-10899 Oct 15 j 18:38	9°♒14'27	-0°56'42
min. Earth dist.	-10899 Oct 17 j 01:35	9°♒11'04	17.34006 AU
direct	-10899 Dec 31 j 01:44	7°♒07'38	
evening set	-10898 Apr 06 j 08:03	10°♒37'56	
max. Earth dist.	-10898 Apr 21 j 11:01	11°♒34'21	19.31964 AU
conjunction	-10898 Apr 22 j 22:27	11°♒39'54	-0°48'42
minimum elong	-10898 Apr 22 j 22:27	11°♒39'54	0°49'12
morning rise	-10898 May 09 j 08:33	12°♒41'18	
	-10898 Jun 21 j 18:24	15°♒	
retrograde	-10898 Aug 08 j 16:10	16°♒02'47	
	-10898 Sep 27 j 02:44	15°℞♒	
opposition	-10898 Oct 20 j 18:40	14°♒00'31	-0°52'03
min. Earth dist.	-10898 Oct 22 j 01:21	13°♒57'09	17.30217 AU
direct	-10897 Jan 05 j 03:38	11°♒53'32	
	-10897 Apr 04 j 18:43	15°♒	
evening set	-10897 Apr 11 j 13:06	15°♒24'35	
max. Earth dist.	-10897 Apr 26 j 14:28	16°♒20'57	19.28489 AU
conjunction	-10897 Apr 28 j 02:19	16°♒26'36	-0°44'21
minimum elong	-10897 Apr 28 j 02:20	16°♒26'36	0°44'49
morning rise	-10897 May 14 j 11:22	17°♒28'01	
retrograde	-10897 Aug 13 j 17:10	20°♒49'52	
opposition	-10897 Oct 25 j 19:24	18°♒47'35	-0°47'02
min. Earth dist.	-10897 Oct 27 j 01:43	18°♒44'16	17.27070 AU
direct	-10896 Jan 10 j 06:22	16°♒40'29	
evening set	-10896 Apr 15 j 18:07	20°♒12'12	
max. Earth dist.	-10896 Apr 30 j 20:23	21°♒08'52	19.25676 AU
conjunction	-10896 May 02 j 06:24	21°♒14'15	-0°39'41
minimum elong	-10896 May 02 j 06:24	21°♒14'15	0°40'07
morning rise	-10896 May 18 j 14:12	22°♒15'40	
retrograde	-10896 Aug 17 j 18:17	25°♒37'48	
opposition	-10896 Oct 29 j 20:44	23°♒35'34	-0°41'39
min. Earth dist.	-10896 Oct 31 j 01:57	23°♒32'22	17.24580 AU
direct	-10895 Jan 14 j 09:48	21°♒28'26	
evening set	-10895 Apr 20 j 23:13	25°♒00'42	
max. Earth dist.	-10895 May 06 j 00:36	25°♒57'24	19.23527 AU
conjunction	-10895 May 07 j 10:18	26°♒02'45	-0°34'43
minimum elong	-10895 May 07 j 10:18	26°♒02'45	0°35'07
morning rise	-10895 May 23 j 16:58	27°♒04'08	
	-10895 Jul 23 j 03:39	0°♓	
retrograde	-10895 Aug 22 j 19:11	0°♓26'34	
	-10895 Sep 23 j 00:05	30°℞♒	
opposition	-10895 Nov 03 j 22:48	28°♒24'22	-0°35'58
min. Earth dist.	-10895 Nov 05 j 03:45	28°♒21'13	17.22762 AU

direct	-10894 Jan 19 j 13:18	26°♒17'16	
evening set	-10894 Apr 26 j 04:16	29°♒50'00	
	-10894 Apr 28 j 20:44	0°♓	
max. Earth dist.	-10894 May 11 j 06:20	0°♓46'56	19.22041 AU
conjunction	-10894 May 12 j 14:13	0°♓51'59	-0°29'30
minimum elong	-10894 May 12 j 14:13	0°♓51'59	0°29'50
morning rise	-10894 May 28 j 19:38	1°♓53'20	
retrograde	-10894 Aug 27 j 20:53	5°♓16'00	
opposition	-10894 Nov 09 j 01:27	3°♓13'54	-0°30'00
min. Earth dist.	-10894 Nov 10 j 04:43	3°♓10'55	17.21578 AU
direct	-10893 Jan 24 j 18:55	1°♓06'52	
evening set	-10893 May 01 j 09:17	4°♓39'54	
max. Earth dist.	-10893 May 16 j 11:11	5°♓36'57	19.21174 AU
conjunction	-10893 May 17 j 17:58	5°♓41'50	-0°24'03
minimum elong	-10893 May 17 j 17:58	5°♓41'50	0°24'21
morning rise	-10893 Jun 02 j 22:06	6°♓43'06	
retrograde	-10893 Sep 01 j 21:29	10°♓05'57	
opposition	-10893 Nov 14 j 04:50	8°♓03'57	-0°23'49
min. Earth dist.	-10893 Nov 15 j 07:51	8°♓01'01	17.21018 AU
direct	-10892 Jan 29 j 23:39	5°♓57'02	
evening set	-10892 May 05 j 13:54	9°♓30'14	
conjunction	-10892 May 21 j 21:18	10°♓32'03	-0°18'26
minimum elong	-10892 May 21 j 21:18	10°♓32'03	0°18'40
max. Earth dist.	-10892 May 20 j 16:06	10°♓27'24	19.20914 AU
morning rise	-10892 Jun 07 j 00:17	11°♓33'13	
retrograde	-10892 Sep 05 j 23:35	14°♓56'12	
opposition	-10892 Nov 18 j 08:34	12°♓54'16	-0°17'27
min. Earth dist.	-10892 Nov 19 j 09:26	12°♓51'34	17.21028 AU
direct	-10891 Feb 03 j 06:41	10°♓47'29	
evening set	-10891 May 10 j 18:23	14°♓20'42	
max. Earth dist.	-10891 May 25 j 21:06	15°♓18'01	19.21199 AU
conjunction	-10891 May 27 j 00:32	15°♓22'23	-0°12'41
minimum elong	-10891 May 27 j 00:32	15°♓22'23	0°12'52
behind sun begin	-10891 May 26 j 20:25	15°♓21'45	
behind sun end	-10891 May 27 j 04:40	15°♓23'02	
morning rise	-10891 Jun 12 j 02:09	16°♓23'26	
retrograde	-10891 Sep 10 j 23:55	19°♓46'27	
opposition	-10891 Nov 23 j 12:41	17°♓44'36	-0°10'57
min. Earth dist.	-10891 Nov 24 j 13:16	17°♓41'57	17.21583 AU
direct	-10890 Feb 08 j 11:36	15°♓37'58	
evening set	-10890 May 15 j 22:32	19°♓11'02	
max. Earth dist.	-10890 May 31 j 01:04	20°♓08'23	19.22027 AU
conjunction	-10890 Jun 01 j 03:17	20°♓12'34	-0°06'51
minimum elong	-10890 Jun 01 j 03:16	20°♓12'34	0°07'01
behind sun begin	-10890 May 31 j 21:06	20°♓11'36	
behind sun end	-10890 Jun 01 j 09:26	20°♓13'32	
morning rise	-10890 Jun 17 j 03:45	21°♓13'28	
retrograde	-10890 Sep 16 j 02:31	24°♓36'28	
opposition	-10890 Nov 28 j 17:08	22°♓34'40	-0°04'24
min. Earth dist.	-10890 Nov 29 j 15:08	22°♓32'18	17.22662 AU
direct	-10889 Feb 13 j 18:43	20°♓28'11	
evening set	-10889 May 21 j 01:57	24°♓00'57	
max. Earth dist.	-10889 Jun 05 j 05:55	24°♓58'33	19.23369 AU
conjunction	-10889 Jun 06 j 05:28	25°♓02'18	-0°00'57
minimum elong	-10889 Jun 06 j 05:27	25°♓02'18	0°01'03
behind sun begin	-10889 Jun 05 j 22:49	25°♓01'16	
behind sun end	-10889 Jun 06 j 12:06	25°♓03'20	
morning rise	-10889 Jun 22 j 04:35	26°♓03'02	
asc. node	-10889 Aug 03 j 23:17	28°♓22'02	

Attention, astronomical year style is used: The year -10889 in astronomical counting style is the year 10890 BCE in historical counting style.

retrograde	-10889 Sep 21 j 02:54	29°♓25'57		
opposition	-10889 Dec 03 j 21:53	27°♓24'12	0°02'11	
min. Earth dist.	-10889 Dec 04 j 19:09	27°♓21'54	17.24264 AU	
direct	-10888 Feb 18 j 23:26	25°♓17'52		
evening set	-10888 May 25 j 04:54	28°♓50'12		
max. Earth dist.	-10888 Jun 09 j 08:40	29°♓47'47	19.25247 AU	
conjunction	-10888 Jun 10 j 06:58	29°♓51'20	0°05'02	
minimum elong	-10888 Jun 10 j 06:57	29°♓51'20	0°04'58	
behind sun begin	-10888 Jun 10 j 00:30	29°♓50'20		
behind sun end	-10888 Jun 10 j 13:25	29°♓52'20		
	-10888 Jun 12 j 13:13	0°♈		
morning rise	-10888 Jun 26 j 05:04	0°♈51'52		
retrograde	-10888 Sep 25 j 04:56	4°♈14'38		
opposition	-10888 Dec 08 j 02:19	2°♈12'53	0°08'43	
min. Earth dist.	-10888 Dec 08 j 20:46	2°♈10'54	17.26402 AU	
direct	-10887 Feb 23 j 05:41	0°♈06'43		
evening set	-10887 May 30 j 06:57	3°♈38'29		
conjunction	-10887 Jun 15 j 07:53	4°♈39'24	0°10'50	
minimum elong	-10887 Jun 15 j 07:53	4°♈39'24	0°10'49	
behind sun begin	-10887 Jun 15 j 02:48	4°♈38'36		
behind sun end	-10887 Jun 15 j 12:58	4°♈40'11		
max. Earth dist.	-10887 Jun 14 j 12:53	4°♈36'22	19.27655 AU	
morning rise	-10887 Jul 01 j 04:42	5°♈39'43		
retrograde	-10887 Sep 30 j 04:58	9°♈02'15		
opposition	-10887 Dec 13 j 06:59	7°♈00'31	0°15'10	
min. Earth dist.	-10887 Dec 14 j 00:10	6°♈58'41	17.29075 AU	
direct	-10886 Feb 28 j 10:25	4°♈54'34		
evening set	-10886 Jun 04 j 08:18	8°♈25'37		
conjunction	-10886 Jun 20 j 07:45	9°♈26'15	0°16'32	
minimum elong	-10886 Jun 20 j 07:44	9°♈26'15	0°16'35	
max. Earth dist.	-10886 Jun 19 j 14:15	9°♈23'28	19.30616 AU	
morning rise	-10886 Jul 06 j 03:38	10°♈26'21		
retrograde	-10886 Oct 05 j 05:42	13°♈48'38		
opposition	-10886 Dec 18 j 11:23	11°♈46'53	0°21'29	
min. Earth dist.	-10886 Dec 19 j 01:29	11°♈45'23	17.32319 AU	
direct	-10885 Mar 05 j 16:13	9°♈41'09		
evening set	-10885 Jun 09 j 08:38	13°♈11'23		
conjunction	-10885 Jun 25 j 06:59	14°♈11'45	0°22'06	
minimum elong	-10885 Jun 25 j 06:59	14°♈11'45	0°22'12	
max. Earth dist.	-10885 Jun 24 j 17:22	14°♈09'35	19.34149 AU	
morning rise	-10885 Jul 11 j 01:39	15°♈11'36		
retrograde	-10885 Oct 10 j 04:51	18°♈33'33		
opposition	-10885 Dec 23 j 15:40	16°♈31'49	0°27'37	
min. Earth dist.	-10885 Dec 24 j 03:43	16°♈30'32	17.36141 AU	
direct	-10884 Mar 09 j 21:13	14°♈26'22		
evening set	-10884 Jun 13 j 08:08	17°♈55'40		
conjunction	-10884 Jun 29 j 05:07	18°♈55'44	0°27'30	
minimum elong	-10884 Jun 29 j 05:06	18°♈55'44	0°27'39	
max. Earth dist.	-10884 Jun 28 j 17:17	18°♈53'51	19.38272 AU	
morning rise	-10884 Jul 14 j 22:59	19°♈55'20		
retrograde	-10884 Oct 14 j 03:54	23°♈16'56		
opposition	-10884 Dec 27 j 19:30	21°♈15'14	0°33'32	
min. Earth dist.	-10884 Dec 28 j 04:27	21°♈14'17	17.40561 AU	
direct	-10883 Mar 15 j 01:38	19°♈10'06		
evening set	-10883 Jun 18 j 06:40	22°♈38'23		
conjunction	-10883 Jul 04 j 02:36	23°♈38'10	0°32'41	
minimum elong	-10883 Jul 04 j 02:36	23°♈38'09	0°32'52	
max. Earth dist.	-10883 Jul 03 j 18:46	23°♈36'55	19.42980 AU	
morning rise	-10883 Jul 19 j 19:22	24°♈37'29		
retrograde	-10883 Oct 19 j 02:23	27°♈58'42		
opposition	-10882 Jan 01 j 22:58	25°♈57'05	0°39'11	

min. Earth dist.	-10882 Jan 02 j 05:17	25°♈56'25	17.45546 AU	
direct	-10882 Mar 20 j 06:02	23°♈52'20		
evening set	-10882 Jun 23 j 04:27	27°♈19'33		
conjunction	-10882 Jul 08 j 23:07	28°♈19'00	0°37'38	
minimum elong	-10882 Jul 08 j 23:07	28°♈19'00	0°37'52	
max. Earth dist.	-10882 Jul 08 j 17:18	28°♈18'05	19.48250 AU	
morning rise	-10882 Jul 24 j 15:11	29°♈18'03		
	-10882 Aug 05 j 05:22	0°♉		
retrograde	-10882 Oct 24 j 00:01	2°♉38'52		
opposition	-10881 Jan 07 j 02:08	0°♉37'22	0°44'33	
min. Earth dist.	-10881 Jan 07 j 05:37	0°♉37'00	17.51088 AU	
	-10881 Jan 22 j 02:33	30°℞♈		
direct	-10881 Mar 25 j 08:32	28°♈33'01		
	-10881 May 23 j 03:37	0°♉		
evening set	-10881 Jun 28 j 01:01	1°♉59'06		
conjunction	-10881 Jul 13 j 18:48	2°♉58'14	0°42'19	
minimum elong	-10881 Jul 13 j 18:47	2°♉58'14	0°42'36	
max. Earth dist.	-10881 Jul 13 j 16:49	2°♉57'55	19.54041 AU	
morning rise	-10881 Jul 29 j 09:59	3°♉57'00		
retrograde	-10881 Oct 28 j 22:00	7°♉17'23		
opposition	-10880 Jan 12 j 04:47	5°♉16'02	0°49'36	
min. Earth dist.	-10880 Jan 12 j 05:17	5°♉15'59	17.57096 AU	
direct	-10880 Mar 29 j 11:45	3°♉12'09		
evening set	-10880 Jul 01 j 20:56	6°♉37'01		
conjunction	-10880 Jul 17 j 13:37	7°♉35'50	0°46'41	
minimum elong	-10880 Jul 17 j 13:36	7°♉35'50	0°47'00	
max. Earth dist.	-10880 Jul 17 j 13:44	7°♉35'51	19.60259 AU	
morning rise	-10880 Aug 02 j 04:14	8°♉34'20		
retrograde	-10880 Nov 01 j 18:17	11°♉54'14		
opposition	-10879 Jan 16 j 06:47	9°♉53'03	0°54'17	
min. Earth dist.	-10879 Jan 16 j 05:06	9°♉53'13	17.63513 AU	
direct	-10879 Apr 03 j 12:08	7°♉49'37		
evening set	-10879 Jul 06 j 15:48	11°♉13'16		
conjunction	-10879 Jul 22 j 07:41	12°♉11'45	0°50'44	
minimum elong	-10879 Jul 22 j 07:40	12°♉11'45	0°51'07	
max. Earth dist.	-10879 Jul 22 j 11:04	12°♉12'16	19.66838 AU	
morning rise	-10879 Aug 06 j 21:37	13°♉09'58		
	-10879 Sep 08 j 21:32	15°♉		
retrograde	-10879 Nov 06 j 15:22	16°♉29'22		
	-10878 Jan 08 j 12:37	15°℞♉		
opposition	-10878 Jan 21 j 08:18	14°♉28'21	0°58'36	
min. Earth dist.	-10878 Jan 21 j 03:30	14°♉28'51	17.70228 AU	
direct	-10878 Apr 08 j 13:33	12°♉25'24		
	-10878 Jun 27 j 23:17	15°♉		
evening set	-10878 Jul 11 j 09:45	15°♉47'44		
conjunction	-10878 Jul 27 j 00:42	16°♉45'53	0°54'26	
minimum elong	-10878 Jul 27 j 00:42	16°♉45'53	0°54'50	
max. Earth dist.	-10878 Jul 27 j 06:16	16°♉46'45	19.73673 AU	
morning rise	-10878 Aug 11 j 14:11	17°♉43'50		
retrograde	-10878 Nov 11 j 10:32	21°♉02'43		
opposition	-10877 Jan 26 j 09:22	19°♉01'50	1°02'30	
min. Earth dist.	-10877 Jan 26 j 02:47	19°♉02'31	17.77183 AU	
direct	-10877 Apr 13 j 12:21	16°♉59'21		
evening set	-10877 Jul 16 j 02:48	20°♉20'20		
conjunction	-10877 Jul 31 j 17:06	21°♉18'10	0°57'46	
minimum elong	-10877 Jul 31 j 17:05	21°♉18'10	0°58'13	
max. Earth dist.	-10877 Aug 01 j 01:21	21°♉19'27	19.80710 AU	
morning rise	-10877 Aug 16 j 06:07	22°♉15'50		
retrograde	-10877 Nov 16 j 06:42	25°♉34'09		
opposition	-10876 Jan 31 j 09:26	23°♉33'24	1°05'58	
min. Earth dist.	-10876 Jan 30 j 23:42	23°♉34'24	17.84286 AU	

Attention, astronomical year style is used: The year -10876 in astronomical counting style is the year 10877 BCE in historical counting style.

direct	-10876 Apr 17 j 11:42	21°♉31'22	
evening set	-10876 Jul 19 j 18:54	24°♉50'58	
conjunction	-10876 Aug 04 j 08:31	25°♉48'28	1°00'43
minimum elong	-10876 Aug 04 j 08:31	25°♉48'28	1°01'11
max. Earth dist.	-10876 Aug 04 j 18:54	25°♉50'05	19.87856 AU
morning rise	-10876 Aug 19 j 21:16	26°♉45'52	
	-10876 Nov 08 j 10:43	0°♊	
retrograde	-10876 Nov 20 j 00:34	0°♊03'35	
	-10876 Dec 01 j 19:17	30°℞♉	
opposition	-10875 Feb 04 j 08:56	28°♉02'57	1°09'01
min. Earth dist.	-10875 Feb 03 j 21:53	28°♉04'05	17.91481 AU
direct	-10875 Apr 22 j 08:43	26°♉01'21	
evening set	-10875 Jul 24 j 09:57	29°♉19'31	
	-10875 Aug 04 j 10:56	0°♊	
conjunction	-10875 Aug 08 j 23:03	0°♊16'42	1°03'16
minimum elong	-10875 Aug 08 j 23:03	0°♊16'42	1°03'46
max. Earth dist.	-10875 Aug 09 j 11:39	0°♊18'39	19.95074 AU
morning rise	-10875 Aug 24 j 11:34	1°♊13'49	
retrograde	-10875 Nov 24 j 19:41	4°♊30'55	
opposition	-10874 Feb 09 j 07:28	2°♊30'22	1°11'36
min. Earth dist.	-10874 Feb 08 j 17:13	2°♊31'50	17.98713 AU
direct	-10874 Apr 27 j 06:35	0°♊29'10	
evening set	-10874 Jul 29 j 00:05	3°♊45'54	
conjunction	-10874 Aug 13 j 12:45	4°♊42'47	1°05'25
minimum elong	-10874 Aug 13 j 12:45	4°♊42'47	1°05'57
max. Earth dist.	-10874 Aug 14 j 03:40	4°♊45'04	20.02314 AU
morning rise	-10874 Aug 29 j 01:09	5°♊39'38	
retrograde	-10874 Nov 29 j 11:40	8°♊56'05	
opposition	-10873 Feb 14 j 05:20	6°♊55'35	1°13'45
min. Earth dist.	-10873 Feb 13 j 13:58	6°♊57'10	18.05976 AU
direct	-10873 May 02 j 02:14	4°♊54'47	
evening set	-10873 Aug 02 j 13:06	8°♊10'02	
conjunction	-10873 Aug 18 j 01:27	9°♊06'38	1°07'10
minimum elong	-10873 Aug 18 j 01:27	9°♊06'37	1°07'43
max. Earth dist.	-10873 Aug 18 j 18:19	9°♊09'13	20.09586 AU
morning rise	-10873 Sep 02 j 13:53	10°♊03'14	
retrograde	-10873 Dec 04 j 05:43	13°♊19'00	
min. Earth dist.	-10872 Feb 18 j 07:30	11°♊20'26	18.13252 AU
opposition	-10872 Feb 19 j 02:02	11°♊18'33	1°15'26
direct	-10872 May 05 j 22:20	9°♊18'06	
evening set	-10872 Aug 06 j 01:15	12°♊31'55	
conjunction	-10872 Aug 21 j 13:22	13°♊28'12	1°08'31
minimum elong	-10872 Aug 21 j 13:22	13°♊28'12	1°09'05
max. Earth dist.	-10872 Aug 22 j 08:44	13°♊31'09	20.16858 AU
morning rise	-10872 Sep 06 j 01:50	14°♊24'34	
retrograde	-10872 Dec 07 j 19:24	17°♊39'39	
opposition	-10871 Feb 22 j 21:47	15°♊39'14	1°16'41
min. Earth dist.	-10871 Feb 22 j 02:17	15°♊41'14	18.20547 AU
direct	-10871 May 10 j 16:12	13°♊39'09	
evening set	-10871 Aug 10 j 12:27	16°♊51'32	
conjunction	-10871 Aug 26 j 00:23	17°♊47'33	1°09'28
minimum elong	-10871 Aug 26 j 00:22	17°♊47'33	1°10'02
max. Earth dist.	-10871 Aug 26 j 21:28	17°♊50'45	20.24167 AU
morning rise	-10871 Sep 10 j 13:03	18°♊43'40	
retrograde	-10871 Dec 12 j 11:48	21°♊58'05	
opposition	-10870 Feb 27 j 16:37	19°♊57'43	1°17'30
min. Earth dist.	-10870 Feb 26 j 17:56	20°♊00'02	18.27874 AU
direct	-10870 May 15 j 10:22	17°♊58'00	
evening set	-10870 Aug 14 j 22:40	21°♊08'59	
conjunction	-10870 Aug 30 j 10:34	22°♊04'44	1°10'02
minimum elong	-10870 Aug 30 j 10:34	22°♊04'44	1°10'37
max. Earth dist.	-10870 Aug 31 j 10:22	22°♊08'20	20.31495 AU
morning rise	-10870 Sep 14 j 23:27	23°♊00'38	
retrograde	-10870 Dec 17 j 00:04	26°♊14'24	
min. Earth dist.	-10869 Mar 03 j 11:01	24°♊16'31	18.35220 AU
opposition	-10869 Mar 04 j 10:41	24°♊14'07	1°17'52
direct	-10869 May 20 j 01:52	22°♊14'46	
evening set	-10869 Aug 19 j 08:14	25°♊24'25	
conjunction	-10869 Sep 03 j 20:09	26°♊19'54	1°10'12
minimum elong	-10869 Sep 03 j 20:09	26°♊19'54	1°10'48
max. Earth dist.	-10869 Sep 04 j 21:18	26°♊23'41	20.38844 AU
morning rise	-10869 Sep 19 j 09:27	27°♊15'36	
	-10869 Nov 17 j 18:09	0°♋	
retrograde	-10869 Dec 21 j 14:54	0°♋28'43	
	-10868 Jan 25 j 07:49	30°℞♊	
min. Earth dist.	-10868 Mar 07 j 01:05	28°♊31'12	18.42562 AU
opposition	-10868 Mar 08 j 03:30	28°♊28'32	1°17'49
direct	-10868 May 23 j 17:35	26°♊29'34	
evening set	-10868 Aug 22 j 16:58	29°♊37'55	
	-10868 Aug 28 j 22:48	0°♋	
conjunction	-10868 Sep 07 j 05:06	0°♋33'12	1°10'00
minimum elong	-10868 Sep 07 j 05:06	0°♋33'12	1°10'36
max. Earth dist.	-10868 Sep 08 j 08:43	0°♋37'20	20.46149 AU
morning rise	-10868 Sep 22 j 18:46	1°♋28'42	
retrograde	-10868 Dec 25 j 02:00	4°♋41'12	
opposition	-10867 Mar 12 j 19:42	2°♋41'08	1°17'21
min. Earth dist.	-10867 Mar 11 j 16:36	2°♋43'52	18.49831 AU
direct	-10867 May 28 j 06:52	0°♋42'35	
evening set	-10867 Aug 27 j 01:00	3°♋49'41	
conjunction	-10867 Sep 11 j 13:17	4°♋44'44	1°09'25
minimum elong	-10867 Sep 11 j 13:17	4°♋44'44	1°10'02
max. Earth dist.	-10867 Sep 12 j 17:50	4°♋48'59	20.53366 AU
morning rise	-10867 Sep 27 j 03:32	5°♋40'03	
retrograde	-10867 Dec 29 j 15:37	8°♋51'59	
min. Earth dist.	-10866 Mar 16 j 05:39	6°♋55'01	18.56977 AU
opposition	-10866 Mar 17 j 11:02	6°♋52'03	1°16'28
direct	-10866 Jun 01 j 20:16	4°♋53'53	
evening set	-10866 Aug 31 j 08:29	7°♋59'48	
conjunction	-10866 Sep 15 j 21:09	8°♋54'39	1°08'28
minimum elong	-10866 Sep 15 j 21:09	8°♋54'39	1°09'05
max. Earth dist.	-10866 Sep 17 j 03:54	8°♋59'13	20.60410 AU
morning rise	-10866 Oct 01 j 11:54	9°♋49'49	
retrograde	-10865 Jan 03 j 02:10	13°♋01'10	
min. Earth dist.	-10865 Mar 20 j 19:53	11°♋04'22	18.63916 AU
opposition	-10865 Mar 22 j 01:33	11°♋01'23	1°15'12
direct	-10865 Jun 06 j 07:54	9°♋03'36	
evening set	-10865 Sep 04 j 15:28	12°♋08'22	
conjunction	-10865 Sep 20 j 04:29	13°♋03'02	1°07'10
minimum elong	-10865 Sep 20 j 04:29	13°♋03'02	1°07'47
max. Earth dist.	-10865 Sep 21 j 11:32	13°♋07'38	20.67223 AU
morning rise	-10865 Oct 05 j 20:01	13°♋58'03	
retrograde	-10864 Jan 07 j 14:29	17°♋08'51	
min. Earth dist.	-10864 Mar 24 j 07:58	15°♋12'20	18.70582 AU
opposition	-10864 Mar 25 j 15:13	15°♋09'12	1°13'32
direct	-10864 Jun 09 j 19:15	13°♋11'46	
evening set	-10864 Sep 07 j 21:58	16°♋15'28	
conjunction	-10864 Sep 23 j 11:30	17°♋09'59	1°05'32
minimum elong	-10864 Sep 23 j 11:30	17°♋09'59	1°06'07
max. Earth dist.	-10864 Sep 24 j 20:13	17°♋14'47	20.73705 AU
morning rise	-10864 Oct 09 j 03:37	18°♋04'51	
retrograde	-10863 Jan 11 j 00:24	21°♋15'07	

Attention, astronomical year style is used: The year -10863 in astronomical counting style is the year 10864 BCE in historical counting style.

min. Earth dist.	-10863 Mar 28 j 20:52	19°♋18'43	18.76883 AU
opposition	-10863 Mar 30 j 04:04	19°♋15'35	1°11'30
direct	-10863 Jun 14 j 05:33	17°♋18'29	
evening set	-10863 Sep 12 j 04:05	20°♋21'09	
conjunction	-10863 Sep 27 j 18:04	21°♋15'30	1°03'33
minimum elong	-10863 Sep 27 j 18:04	21°♋15'30	1°04'08
max. Earth dist.	-10863 Sep 29 j 02:30	21°♋20'15	20.79815 AU
morning rise	-10863 Oct 13 j 11:04	22°♋10'16	
retrograde	-10862 Jan 15 j 11:23	25°♋20'02	
min. Earth dist.	-10862 Apr 02 j 07:59	23°♋23'48	18.82785 AU
opposition	-10862 Apr 03 j 16:13	23°♋20'35	1°09'07
direct	-10862 Jun 18 j 15:18	21°♋23'45	
evening set	-10862 Sep 16 j 09:37	24°♋25'27	
conjunction	-10862 Oct 02 j 00:21	25°♋19'40	1°01'16
minimum elong	-10862 Oct 02 j 00:21	25°♋19'40	1°01'50
max. Earth dist.	-10862 Oct 03 j 10:04	25°♋24'35	20.85483 AU
morning rise	-10862 Oct 17 j 18:06	26°♋14'20	
retrograde	-10861 Jan 19 j 20:26	29°♋23'35	
min. Earth dist.	-10861 Apr 06 j 19:42	27°♋27'24	18.88219 AU
opposition	-10861 Apr 08 j 03:38	27°♋24'13	1°06'24
direct	-10861 Jun 23 j 00:13	25°♋27'37	
evening set	-10861 Sep 20 j 14:55	28°♋28'23	
conjunction	-10861 Oct 06 j 06:16	29°♋22'30	0°58'42
minimum elong	-10861 Oct 06 j 06:16	29°♋22'30	0°59'15
max. Earth dist.	-10861 Oct 07 j 15:17	29°♋27'18	20.90690 AU
	-10861 Oct 17 j 01:14	0°♌	
morning rise	-10861 Oct 22 j 01:03	0°♌17'05	
retrograde	-10860 Jan 24 j 06:16	3°♌25'51	
min. Earth dist.	-10860 Apr 10 j 05:37	1°♌29'44	18.93189 AU
opposition	-10860 Apr 11 j 14:03	1°♌26'30	1°03'22
	-10860 May 22 j 03:46	30°℞♋	
direct	-10860 Jun 26 j 08:35	29°♋30'04	
	-10860 Jul 30 j 13:09	0°♌	
evening set	-10860 Sep 23 j 19:42	2°♌29'59	
conjunction	-10860 Oct 09 j 11:55	3°♌24'01	0°55'51
minimum elong	-10860 Oct 09 j 11:55	3°♌24'01	0°56'23
max. Earth dist.	-10860 Oct 10 j 22:02	3°♌28'57	20.95419 AU
morning rise	-10860 Oct 25 j 07:32	4°♌18'32	
retrograde	-10859 Jan 27 j 14:01	7°♌26'49	
opposition	-10859 Apr 15 j 23:53	5°♌27'29	1°00'03
min. Earth dist.	-10859 Apr 14 j 15:50	5°♌30'41	18.97685 AU
direct	-10859 Jun 30 j 15:49	3°♌31'13	
evening set	-10859 Sep 28 j 00:02	6°♌30'19	
conjunction	-10859 Oct 13 j 16:58	7°♌24'16	0°52'44
minimum elong	-10859 Oct 13 j 16:58	7°♌24'16	0°53'15
max. Earth dist.	-10859 Oct 15 j 02:23	7°♌29'05	20.99707 AU
morning rise	-10859 Oct 29 j 13:42	8°♌18'44	
retrograde	-10858 Jan 31 j 23:06	11°♌26'36	
min. Earth dist.	-10858 Apr 19 j 00:38	9°♌30'28	19.01764 AU
opposition	-10858 Apr 20 j 09:01	9°♌27'14	0°56'28
direct	-10858 Jul 04 j 22:56	7°♌31'05	
evening set	-10858 Oct 02 j 04:10	10°♌29'28	
conjunction	-10858 Oct 17 j 22:03	11°♌23'22	0°49'24
minimum elong	-10858 Oct 17 j 22:04	11°♌23'22	0°49'54
max. Earth dist.	-10858 Oct 19 j 08:36	11°♌28'20	21.03575 AU
morning rise	-10858 Nov 02 j 19:42	12°♌17'47	
	-10857 Jan 03 j 19:12	15°♌	
retrograde	-10857 Feb 05 j 06:08	15°♌25'15	
	-10857 Mar 10 j 10:06	15°℞♌	
min. Earth dist.	-10857 Apr 23 j 09:21	13°♌29'05	19.05436 AU
opposition	-10857 Apr 24 j 17:19	13°♌25'53	0°52'38
direct	-10857 Jul 09 j 04:52	11°♌29'50	
evening set	-10857 Oct 06 j 08:09	14°♌27'35	
	-10857 Oct 15 j 21:15	15°♌	
conjunction	-10857 Oct 22 j 02:52	15°♌21'26	0°45'50
minimum elong	-10857 Oct 22 j 02:52	15°♌21'26	0°46'17
max. Earth dist.	-10857 Oct 23 j 12:28	15°♌26'15	21.07067 AU
morning rise	-10857 Nov 07 j 01:41	16°♌15'51	
retrograde	-10856 Feb 09 j 14:32	19°♌22'57	
min. Earth dist.	-10856 Apr 26 j 17:02	17°♌26'47	19.08742 AU
opposition	-10856 Apr 28 j 01:04	17°♌23'35	0°48'34
direct	-10856 Jul 12 j 10:09	15°♌27'38	
evening set	-10856 Oct 09 j 11:50	18°♌24'50	
conjunction	-10856 Oct 25 j 07:34	19°♌18'40	0°42'04
minimum elong	-10856 Oct 25 j 07:34	19°♌18'40	0°42'30
max. Earth dist.	-10856 Oct 26 j 18:05	19°♌23'36	21.10177 AU
morning rise	-10856 Nov 10 j 07:18	20°♌13'04	
retrograde	-10855 Feb 12 j 21:24	23°♌19'52	
min. Earth dist.	-10855 May 01 j 00:39	21°♌23'41	19.11662 AU
opposition	-10855 May 02 j 08:14	21°♌20'31	0°44'18
direct	-10855 Jul 16 j 15:31	19°♌24'41	
evening set	-10855 Oct 13 j 15:33	22°♌21'25	
conjunction	-10855 Oct 29 j 12:10	23°♌15'15	0°38'07
minimum elong	-10855 Oct 29 j 12:11	23°♌15'15	0°38'32
max. Earth dist.	-10855 Oct 30 j 21:29	23°♌20'00	21.12923 AU
morning rise	-10855 Nov 14 j 13:08	24°♌09'40	
retrograde	-10854 Feb 17 j 05:34	27°♌16'14	
min. Earth dist.	-10854 May 05 j 07:40	25°♌20'02	19.14212 AU
opposition	-10854 May 06 j 14:58	25°♌16'54	0°39'49
direct	-10854 Jul 20 j 19:02	23°♌21'10	
evening set	-10854 Oct 17 j 19:10	26°♌17'31	
conjunction	-10854 Nov 02 j 16:56	27°♌11'22	0°34'00
minimum elong	-10854 Nov 02 j 16:56	27°♌11'22	0°34'22
max. Earth dist.	-10854 Nov 04 j 02:48	27°♌16'11	21.15264 AU
morning rise	-10854 Nov 18 j 18:55	28°♌05'49	
	-10854 Dec 27 j 10:35	0°♍	
retrograde	-10853 Feb 21 j 12:27	1°♍12'10	
	-10853 Apr 20 j 17:27	30°℞♌	
opposition	-10853 May 10 j 21:16	29°♌12'53	0°35'09
min. Earth dist.	-10853 May 09 j 14:45	29°♌15'57	19.16330 AU
direct	-10853 Jul 25 j 00:04	27°♌17'15	
	-10853 Oct 17 j 22:10	0°♍	
evening set	-10853 Oct 21 j 23:04	0°♍13'18	
conjunction	-10853 Nov 06 j 21:46	1°♍07'11	0°29'42
minimum elong	-10853 Nov 06 j 21:47	1°♍07'11	0°30'03
max. Earth dist.	-10853 Nov 08 j 05:55	1°♍11'45	21.17169 AU
morning rise	-10853 Nov 23 j 00:59	2°♍01'41	
retrograde	-10852 Feb 25 j 20:46	5°♍07'53	
min. Earth dist.	-10852 May 12 j 21:25	3°♍11'37	19.17996 AU
opposition	-10852 May 14 j 03:04	3°♍08'38	0°30'20
direct	-10852 Jul 28 j 03:05	1°♍13'03	
evening set	-10852 Oct 25 j 03:01	4°♍08'55	
conjunction	-10852 Nov 10 j 02:53	5°♍02'52	0°25'17
minimum elong	-10852 Nov 10 j 02:53	5°♍02'52	0°25'35
max. Earth dist.	-10852 Nov 11 j 11:06	5°♍07'25	21.18584 AU
morning rise	-10852 Nov 26 j 07:03	5°♍57'25	
retrograde	-10851 Mar 01 j 03:27	9°♍03'29	
min. Earth dist.	-10851 May 17 j 04:09	7°♍07'09	19.19143 AU
opposition	-10851 May 18 j 08:41	7°♍04'17	0°25'22
direct	-10851 Aug 01 j 07:19	5°♍08'46	
evening set	-10851 Oct 29 j 07:11	8°♍04'29	

Attention, astronomical year style is used: The year -10851 in astronomical counting style is the year 10852 BCE in historical counting style.

conjunction	-10851 Nov 14 j 08:01	8°♑58'30	0°20'44
minimum elong	-10851 Nov 14 j 08:01	8°♑58'30	0°21'01
max. Earth dist.	-10851 Nov 15 j 14:05	9°♑02'45	21.19472 AU
morning rise	-10851 Nov 30 j 13:27	9°♑53'08	
retrograde	-10850 Mar 05 j 12:05	12°♑59'09	
min. Earth dist.	-10850 May 21 j 10:56	11°♑02'41	19.19743 AU
opposition	-10850 May 22 j 14:07	10°♑59'57	0°20'17
direct	-10850 Aug 05 j 10:49	9°♑04'25	
evening set	-10850 Nov 02 j 11:45	12°♑00'05	
conjunction	-10850 Nov 18 j 13:48	12°♑54'12	0°16'06
minimum elong	-10850 Nov 18 j 13:48	12°♑54'12	0°16'19
max. Earth dist.	-10850 Nov 19 j 19:24	12°♑58'22	21.19768 AU
morning rise	-10850 Dec 04 j 20:12	13°♑48'55	
retrograde	-10849 Mar 09 j 18:38	16°♑54'53	
opposition	-10849 May 26 j 19:10	14°♑55'41	0°15'06
min. Earth dist.	-10849 May 25 j 17:32	14°♑58'16	19.19723 AU
direct	-10849 Aug 09 j 14:21	13°♑00'06	
evening set	-10849 Nov 06 j 16:42	15°♑55'48	
conjunction	-10849 Nov 22 j 19:45	16°♑50'00	0°11'23
minimum elong	-10849 Nov 22 j 19:46	16°♑50'00	0°11'35
behind sun begin	-10849 Nov 22 j 15:02	16°♑49'21	
behind sun end	-10849 Nov 23 j 00:30	16°♑50'39	
max. Earth dist.	-10849 Nov 23 j 22:37	16°♑53'48	21.19445 AU
morning rise	-10849 Dec 09 j 03:23	17°♑44'50	
retrograde	-10848 Mar 13 j 02:59	20°♑50'47	
min. Earth dist.	-10848 May 29 j 00:16	18°♑53'56	19.19077 AU
opposition	-10848 May 30 j 00:11	18°♑51'32	0°09'51
direct	-10848 Aug 12 j 18:15	16°♑55'51	
evening set	-10848 Nov 09 j 21:43	19°♑51'38	
conjunction	-10848 Nov 26 j 01:59	20°♑45'58	0°06'38
minimum elong	-10848 Nov 26 j 01:59	20°♑45'58	0°06'47
behind sun begin	-10848 Nov 25 j 19:46	20°♑45'07	
behind sun end	-10848 Nov 26 j 08:11	20°♑46'49	
max. Earth dist.	-10848 Nov 27 j 04:07	20°♑49'39	21.18476 AU
morning rise	-10848 Dec 12 j 10:30	21°♑40'54	
retrograde	-10847 Mar 17 j 09:29	24°♑46'52	
min. Earth dist.	-10847 Jun 02 j 06:41	22°♑49'47	19.17786 AU
opposition	-10847 Jun 03 j 05:00	22°♑47'32	0°04'33
direct	-10847 Aug 16 j 21:53	20°♑51'43	
evening set	-10847 Nov 14 j 03:14	23°♑47'38	
conjunction	-10847 Nov 30 j 08:30	24°♑42'06	0°01'49
minimum elong	-10847 Nov 30 j 08:30	24°♑42'06	0°01'56
behind sun begin	-10847 Nov 30 j 01:49	24°♑41'11	
behind sun end	-10847 Nov 30 j 15:10	24°♑43'01	
max. Earth dist.	-10847 Dec 01 j 07:47	24°♑45'23	21.16900 AU
morning rise	-10847 Dec 16 j 18:14	25°♑37'11	
retrograde	-10846 Mar 21 j 17:11	28°♑43'11	
desc. node	-10846 Apr 17 j 03:33	28°♑26'41	
opposition	-10846 Jun 07 j 09:37	26°♑43'43	-0°00'46
min. Earth dist.	-10846 Jun 06 j 13:13	26°♑45'48	19.15917 AU
direct	-10846 Aug 21 j 01:40	24°♑47'42	
evening set	-10846 Nov 18 j 09:01	27°♑43'52	
conjunction	-10846 Dec 04 j 15:32	28°♑38'29	-0°03'07
minimum elong	-10846 Dec 04 j 15:32	28°♑38'29	0°03'03
behind sun begin	-10846 Dec 04 j 08:52	28°♑37'34	
behind sun end	-10846 Dec 04 j 22:11	28°♑39'24	
max. Earth dist.	-10846 Dec 05 j 14:01	28°♑41'39	21.14752 AU
morning rise	-10846 Dec 21 j 02:10	29°♑33'42	
	-10846 Dec 29 j 04:37	0°♌	
retrograde	-10845 Mar 26 j 00:19	2°♌39'47	
opposition	-10845 Jun 11 j 14:06	0°♌40'12	-0°06'05
min. Earth dist.	-10845 Jun 10 j 19:19	0°♌42'06	19.13495 AU
	-10845 Jun 28 j 09:38	30°℞♑	
direct	-10845 Aug 25 j 05:45	28°♑43'57	
	-10845 Oct 19 j 23:50	0°♌	
evening set	-10845 Nov 22 j 15:21	1°♌40'26	
conjunction	-10845 Dec 08 j 22:47	2°♌35'12	-0°07'54
minimum elong	-10845 Dec 08 j 22:47	2°♌35'12	0°07'53
behind sun begin	-10845 Dec 08 j 16:48	2°♌34'23	
behind sun end	-10845 Dec 09 j 04:47	2°♌36'02	
max. Earth dist.	-10845 Dec 09 j 18:22	2°♌37'58	21.12095 AU
morning rise	-10845 Dec 25 j 10:32	3°♌30'35	
retrograde	-10844 Mar 29 j 07:37	6°♌36'48	
opposition	-10844 Jun 14 j 18:29	4°♌37'04	-0°11'22
min. Earth dist.	-10844 Jun 14 j 01:37	4°♌38'47	19.10610 AU
direct	-10844 Aug 28 j 09:04	2°♌40'34	
evening set	-10844 Nov 25 j 21:59	5°♌37'28	
conjunction	-10844 Dec 12 j 06:36	6°♌32'26	-0°12'39
minimum elong	-10844 Dec 12 j 06:36	6°♌32'26	0°12'40
behind sun begin	-10844 Dec 12 j 02:25	6°♌31'51	
behind sun end	-10844 Dec 12 j 10:46	6°♌33'00	
max. Earth dist.	-10844 Dec 13 j 01:25	6°♌35'05	21.08990 AU
morning rise	-10844 Dec 28 j 19:07	7°♌27'58	
retrograde	-10843 Apr 02 j 15:36	10°♌34'21	
opposition	-10843 Jun 18 j 22:53	8°♌34'31	-0°16'37
min. Earth dist.	-10843 Jun 18 j 07:30	8°♌36'05	19.07298 AU
direct	-10843 Sep 01 j 13:31	6°♌37'46	
evening set	-10843 Nov 30 j 05:11	9°♌35'09	
conjunction	-10843 Dec 16 j 14:44	10°♌30'19	-0°17'22
minimum elong	-10843 Dec 16 j 14:44	10°♌30'19	0°17'26
max. Earth dist.	-10843 Dec 17 j 06:35	10°♌32'33	21.05496 AU
morning rise	-10842 Jan 02 j 04:21	11°♌26'02	
retrograde	-10842 Apr 06 j 23:22	14°♌32'40	
opposition	-10842 Jun 23 j 03:30	12°♌32'43	-0°21'49
min. Earth dist.	-10842 Jun 22 j 14:04	12°♌34'05	19.03618 AU
direct	-10842 Sep 05 j 16:54	10°♌35'42	
evening set	-10842 Dec 04 j 13:03	13°♌33'42	
conjunction	-10842 Dec 20 j 23:45	14°♌29'04	-0°22'01
minimum elong	-10842 Dec 20 j 23:45	14°♌29'04	0°22'06
max. Earth dist.	-10842 Dec 21 j 14:39	14°♌31'10	21.01630 AU
morning rise	-10841 Jan 06 j 14:02	15°♌24'59	
retrograde	-10841 Apr 11 j 08:02	18°♌31'53	
opposition	-10841 Jun 27 j 08:04	16°♌31'51	-0°26'55
min. Earth dist.	-10841 Jun 26 j 20:11	16°♌33'04	18.99572 AU
direct	-10841 Sep 09 j 21:52	14°♌34'37	
evening set	-10841 Dec 08 j 21:40	17°♌33'17	
conjunction	-10841 Dec 25 j 09:12	18°♌28'53	-0°26'35
minimum elong	-10841 Dec 25 j 09:12	18°♌28'53	0°26'43
max. Earth dist.	-10841 Dec 25 j 20:53	18°♌30'32	20.97423 AU
morning rise	-10840 Jan 11 j 00:27	19°♌25'00	
retrograde	-10840 Apr 14 j 16:56	22°♌32'15	
opposition	-10840 Jun 30 j 13:05	20°♌32'08	-0°31'55
min. Earth dist.	-10840 Jun 30 j 03:19	20°♌33'09	18.95196 AU
direct	-10840 Sep 13 j 02:00	18°♌34'39	
evening set	-10840 Dec 12 j 06:42	21°♌34'05	
conjunction	-10840 Dec 28 j 19:19	22°♌29'55	-0°31'03
minimum elong	-10840 Dec 28 j 19:19	22°♌29'55	0°31'14
max. Earth dist.	-10840 Dec 29 j 06:01	22°♌31'26	20.92873 AU
morning rise	-10839 Jan 14 j 11:09	23°♌26'15	
retrograde	-10839 Apr 19 j 02:09	26°♌33'54	
opposition	-10839 Jul 04 j 18:18	24°♌33'44	-0°36'48
min. Earth dist.	-10839 Jul 04 j 10:10	24°♌34'35	18.90467 AU
direct	-10839 Sep 17 j 07:27	22°♌36'00	

Attention, astronomical year style is used: The year -10839 in astronomical counting style is the year 10840 BCE in historical counting style.

evening set	-10839 Dec 16 j 16:52	25°♎36'18	
conjunction	-10838 Jan 02 j 06:15	26°♎32'23	-0°35'23
minimum elong	-10838 Jan 02 j 06:15	26°♎32'23	0°35'36
max. Earth dist.	-10838 Jan 02 j 13:28	26°♎33'24	20.87976 AU
morning rise	-10838 Jan 18 j 22:57	27°♎28'56	
	-10838 Mar 15 j 09:57	0°♏	
retrograde	-10838 Apr 23 j 12:22	0°♏37'01	
	-10838 Jun 01 j 23:16	30°℞♎	
opposition	-10838 Jul 08 j 23:51	28°♎36'48	-0°41'32
min. Earth dist.	-10838 Jul 08 j 18:14	28°♎37'23	18.85390 AU
direct	-10838 Sep 21 j 12:50	26°♎38'47	
evening set	-10838 Dec 21 j 03:50	29°♎40'01	
	-10838 Dec 27 j 02:23	0°♏	
conjunction	-10837 Jan 06 j 18:15	0°♏36'23	-0°39'34
minimum elong	-10837 Jan 06 j 18:15	0°♏36'23	0°39'51
max. Earth dist.	-10837 Jan 07 j 00:03	0°♏37'12	20.82704 AU
morning rise	-10837 Jan 23 j 11:23	1°♏33'09	
retrograde	-10837 Apr 27 j 22:25	4°♏41'42	
opposition	-10837 Jul 13 j 05:52	2°♏41'26	-0°46'05
min. Earth dist.	-10837 Jul 13 j 02:08	2°♏41'49	18.79917 AU
direct	-10837 Sep 25 j 19:15	0°♏43'07	
evening set	-10837 Dec 25 j 15:46	3°♏45'22	
conjunction	-10836 Jan 11 j 06:48	4°♏41'59	-0°43'35
minimum elong	-10836 Jan 11 j 06:47	4°♏41'59	0°43'53
max. Earth dist.	-10836 Jan 11 j 08:44	4°♏42'15	20.77031 AU
morning rise	-10836 Jan 28 j 00:37	5°♏39'00	
retrograde	-10836 May 01 j 09:27	8°♏48'03	
opposition	-10836 Jul 16 j 12:25	6°♏47'42	-0°50'25
min. Earth dist.	-10836 Jul 16 j 11:28	6°♏47'48	18.74046 AU
direct	-10836 Sep 29 j 02:13	4°♏49'02	
evening set	-10836 Dec 29 j 04:28	7°♏52'21	
conjunction	-10835 Jan 14 j 20:26	8°♏49'15	-0°47'23
minimum elong	-10835 Jan 14 j 20:25	8°♏49'15	0°47'44
max. Earth dist.	-10835 Jan 14 j 20:41	8°♏49'17	20.70947 AU
morning rise	-10835 Jan 31 j 14:33	9°♏46'30	
retrograde	-10835 May 05 j 20:45	12°♏56'03	
opposition	-10835 Jul 20 j 19:23	10°♏55'36	-0°54'32
min. Earth dist.	-10835 Jul 20 j 20:21	10°♏55'30	18.67754 AU
direct	-10835 Oct 03 j 10:10	8°♏56'34	
evening set	-10834 Jan 02 j 18:12	12°♏00'59	
conjunction	-10834 Jan 19 j 10:44	12°♏58'09	-0°50'58
minimum elong	-10834 Jan 19 j 10:44	12°♏58'09	0°51'20
max. Earth dist.	-10834 Jan 19 j 06:54	12°♏57'36	20.64459 AU
morning rise	-10834 Feb 05 j 05:29	13°♏55'39	
	-10834 Feb 25 j 05:18	15°♏	
retrograde	-10834 May 10 j 08:28	17°♏05'44	
opposition	-10834 Jul 25 j 03:01	15°♏05'08	-0°58'23
min. Earth dist.	-10834 Jul 25 j 06:58	15°♏04'43	18.61077 AU
	-10834 Jul 27 j 03:57	15°℞♏	
direct	-10834 Oct 07 j 18:30	13°♏05'40	
	-10834 Dec 16 j 02:07	15°♏	
evening set	-10833 Jan 07 j 08:45	16°♏11'14	
conjunction	-10833 Jan 24 j 02:06	17°♏08'43	-0°54'18
minimum elong	-10833 Jan 24 j 02:06	17°♏08'42	0°54'42
max. Earth dist.	-10833 Jan 23 j 20:32	17°♏07'54	20.57595 AU
morning rise	-10833 Feb 09 j 21:00	18°♏06'27	
retrograde	-10833 May 14 j 21:10	21°♏17'02	
opposition	-10833 Jul 29 j 10:59	19°♏16'18	-1°01'56
min. Earth dist.	-10833 Jul 29 j 16:43	19°♏15'41	18.54046 AU
direct	-10833 Oct 12 j 04:17	17°♏16'23	
evening set	-10832 Jan 12 j 00:16	20°♏23'08	
conjunction	-10832 Jan 28 j 18:02	21°♏20'54	-0°57'21
minimum elong	-10832 Jan 28 j 18:01	21°♏20'54	0°57'48
max. Earth dist.	-10832 Jan 28 j 08:34	21°♏19'31	20.50426 AU
morning rise	-10832 Feb 14 j 13:21	22°♏18'53	
retrograde	-10832 May 18 j 09:41	25°♏30'01	
opposition	-10832 Aug 01 j 19:41	23°♏29'06	-1°05'11
min. Earth dist.	-10832 Aug 02 j 04:17	23°♏28'12	18.46766 AU
direct	-10832 Oct 15 j 13:39	21°♏28'41	
evening set	-10831 Jan 15 j 16:17	24°♏36'41	
conjunction	-10831 Feb 01 j 10:45	25°♏34'44	-1°00'07
minimum elong	-10831 Feb 01 j 10:45	25°♏34'44	1°00'35
max. Earth dist.	-10831 Jan 31 j 23:54	25°♏33'10	20.43039 AU
morning rise	-10831 Feb 18 j 06:08	26°♏32'59	
retrograde	-10831 May 22 j 23:55	29°♏44'41	
opposition	-10831 Aug 06 j 04:51	27°♏43'35	-1°08'07
min. Earth dist.	-10831 Aug 06 j 14:53	27°♏42'31	18.39295 AU
direct	-10831 Oct 20 j 00:53	25°♏42'41	
evening set	-10830 Jan 20 j 09:34	28°♏51'58	
conjunction	-10830 Feb 06 j 04:19	29°♏50'19	-1°02'34
minimum elong	-10830 Feb 06 j 04:19	29°♏50'19	1°03'04
max. Earth dist.	-10830 Feb 05 j 13:52	29°♏48'13	20.35503 AU
	-10830 Feb 08 j 22:36	0°♐	
morning rise	-10830 Feb 22 j 23:57	0°♐48'49	
retrograde	-10830 May 27 j 13:41	4°♐01'06	
opposition	-10830 Aug 10 j 14:43	1°♐59'49	-1°10'41
min. Earth dist.	-10830 Aug 11 j 03:31	1°♐58'28	18.31728 AU
	-10830 Oct 16 j 17:45	30°℞♏	
direct	-10830 Oct 24 j 11:40	29°♏58'25	
	-10830 Nov 01 j 04:09	0°♐	
evening set	-10829 Jan 25 j 03:37	3°♐09'03	
conjunction	-10829 Feb 10 j 22:52	4°♐07'43	-1°04'42
minimum elong	-10829 Feb 10 j 22:52	4°♐07'43	1°05'12
max. Earth dist.	-10829 Feb 10 j 07:06	4°♐05'24	20.27904 AU
morning rise	-10829 Feb 27 j 18:24	5°♐06'28	
retrograde	-10829 Jun 01 j 05:22	8°♐19'20	
opposition	-10829 Aug 15 j 01:17	6°♐17'55	-1°12'53
min. Earth dist.	-10829 Aug 15 j 15:07	6°♐16'26	18.24123 AU
direct	-10829 Oct 29 j 00:15	4°♐16'03	
evening set	-10828 Jan 29 j 22:33	7°♐28'04	
conjunction	-10828 Feb 15 j 17:56	8°♐27'01	-1°06'29
minimum elong	-10828 Feb 15 j 17:56	8°♐27'01	1°07'01
max. Earth dist.	-10828 Feb 14 j 23:00	8°♐24'13	20.20300 AU
morning rise	-10828 Mar 03 j 13:28	9°♐26'01	
retrograde	-10828 Jun 04 j 20:42	12°♐39'32	
opposition	-10828 Aug 18 j 12:45	10°♐37'59	-1°14'42
min. Earth dist.	-10828 Aug 19 j 05:08	10°♐36'14	18.16556 AU
direct	-10828 Nov 01 j 12:34	8°♐35'39	
evening set	-10827 Feb 02 j 18:23	11°♐49'06	
conjunction	-10827 Feb 19 j 14:07	12°♐48'21	-1°07'54
minimum elong	-10827 Feb 19 j 14:07	12°♐48'21	1°08'28
max. Earth dist.	-10827 Feb 18 j 17:58	12°♐45'22	20.12765 AU
morning rise	-10827 Mar 08 j 09:26	13°♐47'37	
retrograde	-10827 Jun 09 j 13:57	17°♐01'46	
opposition	-10827 Aug 23 j 00:48	15°♐00'08	-1°16'06
min. Earth dist.	-10827 Aug 23 j 18:00	14°♐58'17	18.09067 AU
direct	-10827 Nov 06 j 03:00	12°♐57'23	
evening set	-10826 Feb 07 j 15:23	16°♐12'17	
conjunction	-10826 Feb 24 j 11:09	17°♐11'51	-1°08'56
minimum elong	-10826 Feb 24 j 11:09	17°♐11'50	1°09'31
max. Earth dist.	-10826 Feb 23 j 12:08	17°♐08'25	20.05323 AU
morning rise	-10826 Mar 13 j 06:19	18°♐11'21	

Attention, astronomical year style is used: The year -10826 in astronomical counting style is the year 10827 BCE in historical counting style.

retrograde	-10826 Jun 14 j 06:44	21°♐26'11	
opposition	-10826 Aug 27 j 13:59	19°♐24'29	-1°17'04
min. Earth dist.	-10826 Aug 28 j 09:46	19°♐22'21	18.01692 AU
direct	-10826 Nov 10 j 16:43	17°♐21'21	
evening set	-10825 Feb 12 j 13:16	20°♐37'45	
max. Earth dist.	-10825 Feb 28 j 08:48	21°♐33'57	19.98007 AU
conjunction	-10825 Mar 01 j 09:08	21°♐37'36	-1°09'35
minimum elong	-10825 Mar 01 j 09:08	21°♐37'36	1°10'11
morning rise	-10825 Mar 18 j 03:56	22°♐37'20	
retrograde	-10825 Jun 19 j 02:00	25°♐52'52	
opposition	-10825 Sep 01 j 03:54	23°♐51'08	-1°17'34
min. Earth dist.	-10825 Sep 02 j 00:24	23°♐48'55	17.94438 AU
direct	-10825 Nov 15 j 09:34	21°♐47'38	
evening set	-10824 Feb 17 j 12:12	25°♐05'32	
max. Earth dist.	-10824 Mar 04 j 05:13	26°♐01'39	19.90811 AU
conjunction	-10824 Mar 05 j 07:58	26°♐05'40	-1°09'48
minimum elong	-10824 Mar 05 j 07:57	26°♐05'40	1°10'24
morning rise	-10824 Mar 22 j 02:20	27°♐05'39	
	-10824 May 25 j 07:04	0°♑	
retrograde	-10824 Jun 22 j 20:03	0°♑21'52	
	-10824 Jul 21 j 14:11	30°℞♐	
opposition	-10824 Sep 04 j 18:58	28°♐20'07	-1°17'37
min. Earth dist.	-10824 Sep 05 j 18:06	28°♐17'37	17.87320 AU
direct	-10824 Nov 19 j 00:47	26°♐16'15	
evening set	-10823 Feb 21 j 11:55	29°♐35'39	
	-10823 Feb 28 j 08:02	0°♑	
max. Earth dist.	-10823 Mar 09 j 03:16	0°♑31'47	19.83752 AU
conjunction	-10823 Mar 10 j 07:36	0°♑36'04	-1°09'36
minimum elong	-10823 Mar 10 j 07:36	0°♑36'04	1°10'12
morning rise	-10823 Mar 27 j 01:33	1°♑36'16	
retrograde	-10823 Jun 27 j 17:01	4°♑53'10	
opposition	-10823 Sep 09 j 10:52	2°♑51'24	-1°17'11
min. Earth dist.	-10823 Sep 10 j 10:40	2°♑48'49	17.80317 AU
direct	-10823 Nov 23 j 20:08	0°♑47'11	
evening set	-10822 Feb 26 j 12:46	4°♑08'03	
max. Earth dist.	-10822 Mar 14 j 01:52	5°♑04'08	19.76795 AU
conjunction	-10822 Mar 15 j 08:13	5°♑08'44	-1°08'57
minimum elong	-10822 Mar 15 j 08:13	5°♑08'44	1°09'33
morning rise	-10822 Apr 01 j 01:31	6°♑09'09	
retrograde	-10822 Jul 02 j 12:10	9°♑26'42	
opposition	-10822 Sep 14 j 03:53	7°♑24'54	-1°16'15
min. Earth dist.	-10822 Sep 15 j 06:16	7°♑22'02	17.73435 AU
direct	-10822 Nov 28 j 13:44	5°♑20'19	
evening set	-10821 Mar 03 j 14:26	8°♑42'38	
max. Earth dist.	-10821 Mar 19 j 01:18	9°♑38'38	19.69985 AU
conjunction	-10821 Mar 20 j 09:30	9°♑43'33	-1°07'52
minimum elong	-10821 Mar 20 j 09:31	9°♑43'33	1°08'27
morning rise	-10821 Apr 06 j 02:15	10°♑44'09	
retrograde	-10821 Jul 07 j 10:10	14°♑02'21	
opposition	-10821 Sep 18 j 21:49	12°♑00'29	-1°14'49
min. Earth dist.	-10821 Sep 20 j 00:37	11°♑57'33	17.66704 AU
direct	-10821 Dec 03 j 11:52	9°♑55'32	
evening set	-10820 Mar 07 j 16:35	13°♑19'13	
max. Earth dist.	-10820 Mar 23 j 02:01	14°♑15'16	19.63338 AU
conjunction	-10820 Mar 24 j 11:20	14°♑20'22	-1°06'20
minimum elong	-10820 Mar 24 j 11:20	14°♑20'22	1°06'56
morning rise	-10820 Apr 10 j 03:14	15°♑21'08	
retrograde	-10820 Jul 11 j 06:04	18°♑39'57	
opposition	-10820 Sep 22 j 16:48	16°♑38'00	-1°12'54
min. Earth dist.	-10820 Sep 23 j 21:44	16°♑34'51	17.60173 AU
direct	-10820 Dec 07 j 07:53	14°♑32'41	

evening set	-10819 Mar 12 j 19:35	17°♑57'42	
max. Earth dist.	-10819 Mar 28 j 02:40	18°♑53'38	19.56938 AU
conjunction	-10819 Mar 29 j 13:45	18°♑59'02	-1°04'21
minimum elong	-10819 Mar 29 j 13:45	18°♑59'02	1°04'56
morning rise	-10819 Apr 15 j 05:02	19°♑59'59	
retrograde	-10819 Jul 16 j 04:53	23°♑19'20	
opposition	-10819 Sep 27 j 12:20	21°♑17'19	-1°10'30
min. Earth dist.	-10819 Sep 28 j 17:31	21°♑14'07	17.53917 AU
direct	-10819 Dec 12 j 08:28	19°♑11'38	
evening set	-10818 Mar 17 j 23:06	22°♑37'53	
max. Earth dist.	-10818 Apr 02 j 05:33	23°♑33'58	19.50838 AU
conjunction	-10818 Apr 03 j 16:49	23°♑39'25	-1°01'57
minimum elong	-10818 Apr 03 j 16:50	23°♑39'25	1°02'32
morning rise	-10818 Apr 20 j 07:05	24°♑40'30	
retrograde	-10818 Jul 21 j 02:02	28°♑00'23	
opposition	-10818 Oct 02 j 09:06	25°♑58'16	-1°07'36
min. Earth dist.	-10818 Oct 03 j 15:50	25°♑54'55	17.48003 AU
direct	-10818 Dec 17 j 06:57	23°♑52'15	
evening set	-10817 Mar 23 j 03:05	27°♑19'39	
max. Earth dist.	-10817 Apr 07 j 07:17	28°♑15'39	19.45133 AU
conjunction	-10817 Apr 08 j 19:57	28°♑21'20	-0°59'07
minimum elong	-10817 Apr 08 j 19:58	28°♑21'20	0°59'41
morning rise	-10817 Apr 25 j 09:28	29°♑22'33	
	-10817 May 05 j 21:49	0°♒	
retrograde	-10817 Jul 26 j 01:36	2°♒42'56	
opposition	-10817 Oct 07 j 06:33	0°♒40'44	-1°04'15
min. Earth dist.	-10817 Oct 08 j 13:05	0°♒37'24	17.42526 AU
	-10817 Oct 23 j 01:32	30°℞♑	
direct	-10817 Dec 22 j 08:38	28°♑34'23	
	-10816 Feb 18 j 17:02	0°♒	
evening set	-10816 Mar 27 j 07:19	2°♒02'52	
max. Earth dist.	-10816 Apr 11 j 11:48	2°♒59'07	19.39894 AU
conjunction	-10816 Apr 12 j 23:36	3°♒04'42	-0°55'53
minimum elong	-10816 Apr 12 j 23:36	3°♒04'42	0°56'25
morning rise	-10816 Apr 29 j 11:57	4°♒06'00	
retrograde	-10816 Jul 30 j 00:43	7°♒26'50	
opposition	-10816 Oct 11 j 04:54	5°♒24'34	-1°00'27
min. Earth dist.	-10816 Oct 12 j 12:09	5°♒21'09	17.37549 AU
direct	-10816 Dec 26 j 08:52	3°♒17'57	
evening set	-10815 Apr 01 j 12:00	6°♒47'26	
max. Earth dist.	-10815 Apr 16 j 14:28	7°♒43'36	19.35201 AU
conjunction	-10815 Apr 18 j 03:18	7°♒49'22	-0°52'16
minimum elong	-10815 Apr 18 j 03:18	7°♒49'22	0°52'47
morning rise	-10815 May 04 j 14:48	8°♒50'45	
retrograde	-10815 Aug 04 j 01:04	12°♒12'00	
opposition	-10815 Oct 16 j 04:02	10°♒09'41	-0°56'13
min. Earth dist.	-10815 Oct 17 j 10:50	10°♒06'19	17.33151 AU
direct	-10815 Dec 31 j 10:48	8°♒02'50	
evening set	-10814 Apr 06 j 16:50	11°♒33'13	
max. Earth dist.	-10814 Apr 21 j 20:06	12°♒29'42	19.31103 AU
conjunction	-10814 Apr 23 j 07:22	12°♒35'14	-0°48'16
minimum elong	-10814 Apr 23 j 07:22	12°♒35'14	0°48'44
morning rise	-10814 May 09 j 17:35	13°♒36'40	
	-10814 Jun 02 j 18:35	15°♒	
retrograde	-10814 Aug 09 j 02:00	16°♒58'19	
	-10814 Oct 19 j 15:27	15°℞♒	
opposition	-10814 Oct 21 j 04:04	14°♒56'00	-0°51'34
min. Earth dist.	-10814 Oct 22 j 10:43	14°♒52'38	17.29363 AU
direct	-10813 Jan 05 j 12:41	12°♒48'59	
	-10813 Mar 19 j 22:06	15°♒	
evening set	-10813 Apr 11 j 22:03	16°♒20'10	

Attention, astronomical year style is used: The year -10813 in astronomical counting style is the year 10814 BCE in historical counting style.

max. Earth dist.	-10813 Apr 26 j 23:41	17°♒16'36	19.27651 AU
conjunction	-10813 Apr 28 j 11:25	17°♒22'14	-0°43'55
minimum elong	-10813 Apr 28 j 11:25	17°♒22'14	0°44'22
morning rise	-10813 May 14 j 20:38	18°♒23'42	
retrograde	-10813 Aug 14 j 02:38	21°♒45'43	
opposition	-10813 Oct 26 j 04:52	19°♒43'24	-0°46'33
min. Earth dist.	-10813 Oct 27 j 10:57	19°♒40'07	17.26247 AU
direct	-10812 Jan 10 j 15:06	17°♒36'18	
evening set	-10812 Apr 16 j 03:05	21°♒08'10	
max. Earth dist.	-10812 May 01 j 05:49	22°♒04'56	19.24869 AU
conjunction	-10812 May 02 j 15:32	22°♒10'16	-0°39'15
minimum elong	-10812 May 02 j 15:33	22°♒10'16	0°39'40
morning rise	-10812 May 18 j 23:30	23°♒11'44	
retrograde	-10812 Aug 18 j 04:38	26°♒34'03	
opposition	-10812 Oct 30 j 06:23	24°♒31'48	-0°41'10
min. Earth dist.	-10812 Oct 31 j 11:38	24°♒28'36	17.23778 AU
direct	-10811 Jan 14 j 18:50	22°♒24'42	
evening set	-10811 Apr 21 j 08:30	25°♒57'07	
max. Earth dist.	-10811 May 06 j 10:04	26°♒53'53	19.22731 AU
conjunction	-10811 May 07 j 19:43	26°♒59'13	-0°34'17
minimum elong	-10811 May 07 j 19:43	26°♒59'13	0°34'39
morning rise	-10811 May 24 j 02:33	28°♒00'40	
	-10811 Jun 28 j 19:41	0°♓	
retrograde	-10811 Aug 23 j 05:05	1°♓23'16	
	-10811 Oct 20 j 05:30	30°℞♒	
opposition	-10811 Nov 04 j 08:30	29°♒21'05	-0°35'29
min. Earth dist.	-10811 Nov 05 j 13:26	29°♒17'56	17.21959 AU
direct	-10810 Jan 19 j 22:36	27°♒13'59	
	-10810 Apr 13 j 14:37	0°♓	
evening set	-10810 Apr 26 j 13:51	0°♓46'53	
conjunction	-10810 May 12 j 23:57	1°♓48'56	-0°29'04
minimum elong	-10810 May 12 j 23:58	1°♓48'56	0°29'24
max. Earth dist.	-10810 May 11 j 16:11	1°♓43'54	19.21224 AU
morning rise	-10810 May 29 j 05:30	2°♓50'20	
retrograde	-10810 Aug 28 j 07:29	6°♓13'10	
opposition	-10810 Nov 09 j 11:27	4°♓11'04	-0°29'31
min. Earth dist.	-10810 Nov 10 j 14:57	4°♓08'04	17.20735 AU
direct	-10809 Jan 25 j 04:30	2°♓04'02	
evening set	-10809 May 01 j 19:03	5°♓37'13	
max. Earth dist.	-10809 May 16 j 20:52	6°♓34'17	19.20294 AU
conjunction	-10809 May 18 j 03:51	6°♓39'12	-0°23'37
minimum elong	-10809 May 18 j 03:51	6°♓39'12	0°23'54
morning rise	-10809 Jun 03 j 08:08	7°♓40'31	
retrograde	-10809 Sep 02 j 07:58	11°♓03'33	
opposition	-10809 Nov 14 j 15:01	9°♓01'30	-0°23'20
min. Earth dist.	-10809 Nov 15 j 18:12	8°♓58'33	17.20093 AU
direct	-10808 Jan 30 j 09:13	6°♓54'33	
evening set	-10808 May 06 j 00:05	10°♓27'54	
max. Earth dist.	-10808 May 21 j 02:15	11°♓25'06	19.19931 AU
conjunction	-10808 May 22 j 07:37	11°♓29'46	-0°18'00
minimum elong	-10808 May 22 j 07:37	11°♓29'46	0°18'15
morning rise	-10808 Jun 07 j 10:41	12°♓31'00	
retrograde	-10808 Sep 06 j 10:34	15°♓54'06	
opposition	-10808 Nov 18 j 18:46	13°♓52'08	-0°16'59
min. Earth dist.	-10808 Nov 19 j 20:00	13°♓49'24	17.19986 AU
direct	-10807 Feb 03 j 16:27	11°♓45'17	
evening set	-10807 May 11 j 04:49	15°♓18'38	
max. Earth dist.	-10807 May 26 j 07:13	16°♓15'57	19.20090 AU
conjunction	-10807 May 27 j 11:05	16°♓20'23	-0°12'16
minimum elong	-10807 May 27 j 11:05	16°♓20'23	0°12'28
behind sun begin	-10807 May 27 j 06:44	16°♓19'43	
behind sun end	-10807 May 27 j 15:26	16°♓21'04	
morning rise	-10807 Jun 12 j 12:50	17°♓21'29	
retrograde	-10807 Sep 11 j 10:53	20°♓44'38	
opposition	-10807 Nov 23 j 23:10	18°♓42'42	-0°10'31
min. Earth dist.	-10807 Nov 25 j 00:01	18°♓40'01	17.20408 AU
direct	-10806 Feb 08 j 21:39	16°♓35'58	
evening set	-10806 May 16 j 09:04	20°♓09'11	
max. Earth dist.	-10806 May 31 j 11:31	21°♓06'33	19.20782 AU
conjunction	-10806 Jun 01 j 13:55	21°♓10'46	-0°06'28
minimum elong	-10806 Jun 01 j 13:56	21°♓10'46	0°06'36
behind sun begin	-10806 Jun 01 j 07:41	21°♓09'48	
behind sun end	-10806 Jun 01 j 20:10	21°♓11'44	
morning rise	-10806 Jun 17 j 14:31	22°♓11'43	
retrograde	-10806 Sep 16 j 13:23	25°♓34'51	
opposition	-10806 Nov 29 j 03:41	23°♓32'57	-0°03'58
min. Earth dist.	-10806 Nov 30 j 01:58	23°♓30'33	17.21352 AU
direct	-10805 Feb 14 j 05:19	21°♓26'21	
evening set	-10805 May 21 j 12:42	24°♓59'16	
conjunction	-10805 Jun 06 j 16:20	26°♓00'40	-0°00'34
minimum elong	-10805 Jun 06 j 16:21	26°♓00'40	0°00'41
behind sun begin	-10805 Jun 06 j 09:43	25°♓59'39	
behind sun end	-10805 Jun 06 j 22:59	26°♓01'42	
max. Earth dist.	-10805 Jun 05 j 16:25	25°♓56'51	19.21999 AU
morning rise	-10805 Jun 22 j 15:36	27°♓01'27	
asc. node	-10805 Jul 12 j 01:23	28°♓10'51	
	-10805 Aug 23 j 03:57	0°♈	
retrograde	-10805 Sep 21 j 13:25	0°♈24'30	
	-10805 Oct 21 j 17:56	30°℞♓	
opposition	-10805 Dec 04 j 08:26	28°♓22'37	0°02'35
min. Earth dist.	-10805 Dec 05 j 06:00	28°♓20'18	17.22843 AU
direct	-10804 Feb 19 j 10:08	26°♓16'10	
evening set	-10804 May 25 j 15:39	29°♓48'40	
	-10804 May 28 j 16:09	0°♈	
conjunction	-10804 Jun 10 j 17:52	0°♈49'51	0°05'22
minimum elong	-10804 Jun 10 j 17:53	0°♈49'51	0°05'20
behind sun begin	-10804 Jun 10 j 11:28	0°♈48'51	
behind sun end	-10804 Jun 11 j 00:17	0°♈50'51	
max. Earth dist.	-10804 Jun 09 j 19:24	0°♈46'16	19.23779 AU
morning rise	-10804 Jun 26 j 16:08	1°♈50'27	
retrograde	-10804 Sep 25 j 15:43	5°♈13'21	
opposition	-10804 Dec 08 j 13:02	3°♈11'29	0°09'05
min. Earth dist.	-10804 Dec 09 j 07:37	3°♈09'30	17.24895 AU
direct	-10803 Feb 23 j 17:07	1°♈05'12	
evening set	-10803 May 30 j 17:50	4°♈37'09	
conjunction	-10803 Jun 15 j 18:52	5°♈38'07	0°11'08
minimum elong	-10803 Jun 15 j 18:52	5°♈38'07	0°11'09
behind sun begin	-10803 Jun 15 j 13:54	5°♈37'20	
behind sun end	-10803 Jun 15 j 23:49	5°♈38'53	
max. Earth dist.	-10803 Jun 14 j 23:41	5°♈35'03	19.26119 AU
morning rise	-10803 Jul 01 j 15:47	6°♈38'30	
retrograde	-10803 Sep 30 j 15:10	10°♈01'11	
opposition	-10803 Dec 13 j 17:45	7°♈59'21	0°15'30
min. Earth dist.	-10803 Dec 14 j 11:03	7°♈57'30	17.27526 AU
direct	-10802 Feb 28 j 21:15	5°♈53'17	
evening set	-10802 Jun 04 j 19:22	9°♈24'33	
conjunction	-10802 Jun 20 j 18:56	10°♈25'15	0°16'48
minimum elong	-10802 Jun 20 j 18:55	10°♈25'15	0°16'52
max. Earth dist.	-10802 Jun 20 j 01:23	10°♈22'28	19.29064 AU
morning rise	-10802 Jul 06 j 14:54	11°♈25'25	
retrograde	-10802 Oct 05 j 17:04	14°♈47'52	
opposition	-10802 Dec 18 j 22:17	12°♈46'02	0°21'47

Attention, astronomical year style is used: The year -10802 in astronomical counting style is the year 10803 BCE in historical counting style.

min. Earth dist.	-10802 Dec 19 j 12:14	12°♈44'33	17.30779 AU
direct	-10801 Mar 06 j 03:11	10°♈40'13	
evening set	-10801 Jun 09 j 19:45	14°♈10'42	
conjunction	-10801 Jun 25 j 18:13	15°♈11'08	0°22'21
minimum elong	-10801 Jun 25 j 18:13	15°♈11'08	0°22'28
max. Earth dist.	-10801 Jun 25 j 04:37	15°♈08'58	19.32627 AU
morning rise	-10801 Jul 11 j 12:59	16°♈11'03	
retrograde	-10801 Oct 10 j 16:02	19°♈33'13	
opposition	-10801 Dec 24 j 02:43	17°♈31'27	0°27'53
min. Earth dist.	-10801 Dec 24 j 14:42	17°♈30'11	17.34649 AU
direct	-10800 Mar 10 j 07:03	15°♈25'57	
evening set	-10800 Jun 13 j 19:36	18°♈55'32	
conjunction	-10800 Jun 29 j 16:40	19°♈55'41	0°27'43
minimum elong	-10800 Jun 29 j 16:40	19°♈55'41	0°27'51
max. Earth dist.	-10800 Jun 29 j 04:49	19°♈53'48	19.36816 AU
morning rise	-10800 Jul 15 j 10:36	20°♈55'21	
retrograde	-10800 Oct 14 j 16:37	24°♈17'11	
opposition	-10800 Dec 28 j 06:33	22°♈15'30	0°33'46
min. Earth dist.	-10800 Dec 28 j 15:18	22°♈14'34	17.39146 AU
direct	-10799 Mar 15 j 12:09	20°♈10'21	
evening set	-10799 Jun 18 j 18:23	23°♈38'59	
conjunction	-10799 Jul 04 j 14:27	24°♈38'49	0°32'53
minimum elong	-10799 Jul 04 j 14:26	24°♈38'49	0°33'05
max. Earth dist.	-10799 Jul 04 j 06:37	24°♈37'35	19.41608 AU
morning rise	-10799 Jul 20 j 07:17	25°♈38'13	
retrograde	-10799 Oct 19 j 14:30	28°♈59'42	
opposition	-10798 Jan 02 j 10:21	26°♈58'08	0°39'24
min. Earth dist.	-10798 Jan 02 j 16:41	26°♈57'28	17.44211 AU
direct	-10798 Mar 20 j 16:05	24°♈53'25	
evening set	-10798 Jun 23 j 16:21	28°♈20'59	
conjunction	-10798 Jul 09 j 11:07	29°♈20'31	0°37'49
minimum elong	-10798 Jul 09 j 11:06	29°♈20'31	0°38'03
max. Earth dist.	-10798 Jul 09 j 05:12	29°♈19'35	19.46950 AU
	-10798 Jul 19 j 21:10	0°♉	
morning rise	-10798 Jul 25 j 03:15	0°♉19'39	
retrograde	-10798 Oct 24 j 13:40	3°♉40'45	
opposition	-10797 Jan 07 j 13:46	1°♉39'19	0°44'44
min. Earth dist.	-10797 Jan 07 j 17:11	1°♉38'57	17.49810 AU
	-10797 Feb 22 j 03:22	30°℞♈	
direct	-10797 Mar 25 j 19:38	29°♈35'01	
	-10797 Apr 25 j 17:52	0°♉	
evening set	-10797 Jun 28 j 13:19	3°♉01'28	
conjunction	-10797 Jul 14 j 07:11	4°♉00'41	0°42'28
minimum elong	-10797 Jul 14 j 07:11	4°♉00'41	0°42'45
max. Earth dist.	-10797 Jul 14 j 05:06	4°♉00'21	19.52778 AU
morning rise	-10797 Jul 29 j 22:26	4°♉59'32	
retrograde	-10797 Oct 29 j 10:42	8°♉20'12	
opposition	-10796 Jan 12 j 16:36	6°♉18'55	0°49'45
min. Earth dist.	-10796 Jan 12 j 17:21	6°♉18'51	17.55839 AU
direct	-10796 Mar 29 j 22:45	4°♉15'06	
evening set	-10796 Jul 02 j 09:30	7°♉40'20	
conjunction	-10796 Jul 18 j 02:16	8°♉39'13	0°46'48
minimum elong	-10796 Jul 18 j 02:15	8°♉39'13	0°47'09
max. Earth dist.	-10796 Jul 18 j 02:02	8°♉39'11	19.58995 AU
morning rise	-10796 Aug 02 j 16:57	9°♉37'48	
retrograde	-10796 Nov 02 j 07:59	12°♉58'00	
opposition	-10795 Jan 16 j 19:03	10°♉56'52	0°54'24
min. Earth dist.	-10795 Jan 16 j 17:30	10°♉57'01	17.62232 AU
direct	-10795 Apr 03 j 23:48	8°♉53'29	
evening set	-10795 Jul 07 j 04:39	12°♉17'27	

conjunction	-10795 Jul 22 j 20:35	13°♉16'01	0°50'50
minimum elong	-10795 Jul 22 j 20:35	13°♉16'01	0°51'12
max. Earth dist.	-10795 Jul 22 j 23:44	13°♉16'30	19.65527 AU
morning rise	-10795 Aug 07 j 10:32	14°♉14'18	
	-10795 Aug 20 j 05:02	15°♉	
retrograde	-10795 Nov 07 j 04:40	17°♉33'59	
opposition	-10794 Jan 21 j 20:55	15°♉33'00	0°58'40
min. Earth dist.	-10794 Jan 21 j 16:26	15°♉33'27	17.68884 AU
	-10794 Feb 04 j 05:55	15°℞♉	
direct	-10794 Apr 09 j 01:52	13°♉30'04	
	-10794 Jun 07 j 22:36	15°♉	
evening set	-10794 Jul 11 j 23:02	16°♉52'42	
conjunction	-10794 Jul 27 j 14:02	17°♉50'56	0°54'29
minimum elong	-10794 Jul 27 j 14:01	17°♉50'55	0°54'54
max. Earth dist.	-10794 Jul 27 j 19:06	17°♉51'43	19.72287 AU
morning rise	-10794 Aug 12 j 03:33	18°♉48'56	
retrograde	-10794 Nov 12 j 00:25	22°♉08'04	
opposition	-10793 Jan 26 j 22:14	20°♉07'11	1°02'32
min. Earth dist.	-10793 Jan 26 j 15:56	20°♉07'51	17.75753 AU
direct	-10793 Apr 14 j 00:25	18°♉04'41	
evening set	-10793 Jul 16 j 16:15	21°♉25'56	
conjunction	-10793 Aug 01 j 06:37	22°♉23'50	0°57'47
minimum elong	-10793 Aug 01 j 06:37	22°♉23'50	0°58'13
max. Earth dist.	-10793 Aug 01 j 14:34	22°♉25'04	19.79229 AU
morning rise	-10793 Aug 16 j 19:41	23°♉21'33	
retrograde	-10793 Nov 16 j 20:34	26°♉40'05	
opposition	-10792 Jan 31 j 22:38	24°♉39'19	1°05'58
min. Earth dist.	-10792 Jan 31 j 13:18	24°♉40'16	17.82751 AU
direct	-10792 Apr 18 j 01:06	22°♉37'13	
evening set	-10792 Jul 20 j 08:39	25°♉57'03	
conjunction	-10792 Aug 04 j 22:18	26°♉54'37	1°00'41
minimum elong	-10792 Aug 04 j 22:18	26°♉54'37	1°01'09
max. Earth dist.	-10792 Aug 05 j 08:13	26°♉56'09	19.86272 AU
morning rise	-10792 Aug 20 j 11:05	27°♉52'04	
	-10792 Sep 29 j 12:04	0°♊	
retrograde	-10792 Nov 20 j 14:25	1°♊09'58	
	-10791 Jan 14 j 18:02	30°℞♉	
opposition	-10791 Feb 04 j 22:15	29°♉09'16	1°08'57
min. Earth dist.	-10791 Feb 04 j 11:32	29°♉10'22	17.89852 AU
direct	-10791 Apr 22 j 21:56	27°♉07'33	
	-10791 Jul 17 j 17:22	0°♊	
evening set	-10791 Jul 24 j 23:55	0°♊25'56	
conjunction	-10791 Aug 09 j 13:05	1°♊23'11	1°03'11
minimum elong	-10791 Aug 09 j 13:05	1°♊23'11	1°03'41
max. Earth dist.	-10791 Aug 10 j 01:30	1°♊25'06	19.93414 AU
morning rise	-10791 Aug 25 j 01:38	2°♊20'21	
retrograde	-10791 Nov 25 j 09:13	5°♊37'35	
opposition	-10790 Feb 09 j 21:00	3°♊36'56	1°11'30
min. Earth dist.	-10790 Feb 09 j 07:03	3°♊38'22	17.97025 AU
direct	-10790 Apr 27 j 20:53	1°♊35'37	
evening set	-10790 Jul 29 j 14:04	4°♊52'31	
conjunction	-10790 Aug 14 j 02:46	5°♊49'27	1°05'18
minimum elong	-10790 Aug 14 j 02:46	5°♊49'27	1°05'49
max. Earth dist.	-10790 Aug 14 j 17:31	5°♊51'43	20.00617 AU
morning rise	-10790 Aug 29 j 15:14	6°♊46'21	
retrograde	-10790 Nov 30 j 01:34	10°♊02'55	
opposition	-10789 Feb 14 j 19:00	8°♊02'18	1°13'35
min. Earth dist.	-10789 Feb 14 j 03:48	8°♊03'51	18.04278 AU
direct	-10789 May 02 j 16:03	6°♊01'20	
evening set	-10789 Aug 03 j 03:16	9°♊16'46	
conjunction	-10789 Aug 18 j 15:40	10°♊13'23	1°07'00

Attention, astronomical year style is used: The year -10789 in astronomical counting style is the year 10790 BCE in historical counting style.

minimum elong	-10789 Aug 18 j 15:40	10°♊13'23	1°07'33
max. Earth dist.	-10789 Aug 19 j 08:40	10°♊16'00	20.07905 AU
morning rise	-10789 Sep 03 j 04:07	11°♊10'02	
retrograde	-10789 Dec 04 j 18:31	14°♊25'54	
opposition	-10788 Feb 19 j 15:40	12°♊25'20	1°15'14
min. Earth dist.	-10788 Feb 18 j 21:12	12°♊27'13	18.11604 AU
direct	-10788 May 06 j 12:45	10°♊24'44	
evening set	-10788 Aug 06 j 15:31	13°♊38'42	
conjunction	-10788 Aug 22 j 03:39	14°♊35'02	1°08'18
minimum elong	-10788 Aug 22 j 03:39	14°♊35'02	1°08'51
max. Earth dist.	-10788 Aug 22 j 23:08	14°♊38'01	20.15259 AU
morning rise	-10788 Sep 06 j 16:09	15°♊31'26	
retrograde	-10788 Dec 08 j 09:26	18°♊46'38	
opposition	-10787 Feb 23 j 11:41	16°♊46'07	1°16'26
min. Earth dist.	-10787 Feb 22 j 16:02	16°♊48'07	18.19012 AU
direct	-10787 May 11 j 05:56	14°♊45'54	
evening set	-10787 Aug 11 j 02:43	17°♊58'26	
conjunction	-10787 Aug 26 j 14:41	18°♊54'30	1°09'13
minimum elong	-10787 Aug 26 j 14:41	18°♊54'30	1°09'48
max. Earth dist.	-10787 Aug 27 j 12:10	18°♊57'46	20.22703 AU
morning rise	-10787 Sep 11 j 03:20	19°♊50'39	
retrograde	-10787 Dec 13 j 01:08	23°♊05'12	
min. Earth dist.	-10786 Feb 27 j 07:43	21°♊07'06	18.26490 AU
opposition	-10786 Feb 28 j 06:40	21°♊04'45	1°17'11
direct	-10786 May 16 j 00:07	19°♊04'56	
evening set	-10786 Aug 15 j 13:11	22°♊16'06	
conjunction	-10786 Aug 31 j 01:06	23°♊11'54	1°09'44
minimum elong	-10786 Aug 31 j 01:06	23°♊11'54	1°10'19
max. Earth dist.	-10786 Sep 01 j 01:07	23°♊15'32	20.30196 AU
morning rise	-10786 Sep 15 j 14:00	24°♊07'50	
retrograde	-10786 Dec 17 j 14:42	27°♊21'44	
min. Earth dist.	-10785 Mar 04 j 00:53	25°♊23'50	18.34007 AU
opposition	-10785 Mar 05 j 00:48	25°♊21'24	1°17'31
direct	-10785 May 20 j 15:37	23°♊22'01	
evening set	-10785 Aug 19 j 22:48	26°♊31'50	
conjunction	-10785 Sep 04 j 10:46	27°♊27'23	1°09'52
minimum elong	-10785 Sep 04 j 10:46	27°♊27'23	1°10'28
max. Earth dist.	-10785 Sep 05 j 12:15	27°♊31'13	20.37713 AU
morning rise	-10785 Sep 20 j 00:04	28°♊23'07	
	-10785 Oct 19 j 22:20	0°♋	
retrograde	-10785 Dec 22 j 05:26	1°♋36'23	
	-10784 Feb 27 j 21:07	30°℞♊	
opposition	-10784 Mar 08 j 17:53	29°♊36'12	1°17'25
min. Earth dist.	-10784 Mar 07 j 15:09	29°♊38'54	18.41504 AU
direct	-10784 May 24 j 07:09	27°♊37'14	
	-10784 Aug 09 j 20:55	0°♋	
evening set	-10784 Aug 23 j 07:40	0°♋45'46	
conjunction	-10784 Sep 07 j 19:47	1°♋41'05	1°09'37
minimum elong	-10784 Sep 07 j 19:47	1°♋41'05	1°10'13
max. Earth dist.	-10784 Sep 08 j 23:33	1°♋45'14	20.45160 AU
morning rise	-10784 Sep 23 j 09:26	2°♋36'37	
retrograde	-10784 Dec 25 j 17:28	5°♋49'17	
min. Earth dist.	-10783 Mar 12 j 06:55	3°♋52'01	18.48901 AU
opposition	-10783 Mar 13 j 10:12	3°♋49'15	1°16'54
direct	-10783 May 28 j 21:04	1°♋50'43	
evening set	-10783 Aug 27 j 15:57	4°♋58'01	
conjunction	-10783 Sep 12 j 04:15	5°♋53'06	1°08'59
minimum elong	-10783 Sep 12 j 04:15	5°♋53'06	1°09'35
max. Earth dist.	-10783 Sep 13 j 08:56	5°♋57'23	20.52490 AU
morning rise	-10783 Sep 27 j 18:28	6°♋48'28	
retrograde	-10783 Dec 30 j 07:08	10°♋00'33	

min. Earth dist.	-10782 Mar 16 j 20:05	8°♋03'38	18.56141 AU
opposition	-10782 Mar 18 j 01:38	8°♋00'40	1°15'58
direct	-10782 Jun 02 j 10:35	6°♋02'31	
evening set	-10782 Aug 31 j 23:32	9°♋08'38	
conjunction	-10782 Sep 16 j 12:11	10°♋03'31	1°08'00
minimum elong	-10782 Sep 16 j 12:11	10°♋03'31	1°08'36
max. Earth dist.	-10782 Sep 17 j 18:50	10°♋08'04	20.59605 AU
morning rise	-10782 Oct 02 j 02:56	10°♋58'43	
retrograde	-10781 Jan 03 j 17:50	14°♋10'14	
min. Earth dist.	-10781 Mar 21 j 10:41	12°♋13'28	18.63129 AU
opposition	-10781 Mar 22 j 16:20	12°♋10'29	1°14'39
direct	-10781 Jun 06 j 22:37	10°♋12'44	
evening set	-10781 Sep 05 j 06:45	13°♋17'41	
conjunction	-10781 Sep 20 j 19:45	14°♋12'24	1°06'39
minimum elong	-10781 Sep 20 j 19:45	14°♋12'24	1°07'14
max. Earth dist.	-10781 Sep 22 j 02:40	14°♋16'58	20.66444 AU
morning rise	-10781 Oct 06 j 11:13	15°♋07'26	
retrograde	-10780 Jan 08 j 06:28	18°♋18'23	
min. Earth dist.	-10780 Mar 24 j 22:44	16°♋21'53	18.69802 AU
opposition	-10780 Mar 26 j 05:56	16°♋18'45	1°12'56
direct	-10780 Jun 10 j 10:18	14°♋21'20	
evening set	-10780 Sep 08 j 13:23	17°♋25'12	
conjunction	-10780 Sep 24 j 02:54	18°♋19'45	1°04'58
minimum elong	-10780 Sep 24 j 02:54	18°♋19'45	1°05'34
max. Earth dist.	-10780 Sep 25 j 11:18	18°♋24'31	20.72920 AU
morning rise	-10780 Oct 09 j 18:59	19°♋14'39	
retrograde	-10779 Jan 11 j 15:31	22°♋25'02	
opposition	-10779 Mar 30 j 19:00	20°♋25'31	1°10'52
min. Earth dist.	-10779 Mar 29 j 12:01	20°♋28'37	18.76084 AU
direct	-10779 Jun 14 j 20:37	18°♋28'23	
evening set	-10779 Sep 12 j 19:25	21°♋31'12	
conjunction	-10779 Sep 28 j 09:26	22°♋25'35	1°02'58
minimum elong	-10779 Sep 28 j 09:26	22°♋25'35	1°03'32
max. Earth dist.	-10779 Sep 29 j 17:43	22°♋30'19	20.78999 AU
morning rise	-10779 Oct 14 j 02:25	23°♋20'22	
retrograde	-10778 Jan 16 j 03:09	26°♋30'13	
min. Earth dist.	-10778 Apr 02 j 23:07	24°♋33'58	18.81947 AU
opposition	-10778 Apr 04 j 07:15	24°♋30'45	1°08'27
direct	-10778 Jun 19 j 06:38	22°♋33'52	
evening set	-10778 Sep 17 j 01:03	25°♋35'40	
conjunction	-10778 Oct 02 j 15:47	26°♋29'55	1°00'39
minimum elong	-10778 Oct 02 j 15:47	26°♋29'55	1°01'13
max. Earth dist.	-10778 Oct 04 j 01:20	26°♋34'49	20.84633 AU
morning rise	-10778 Oct 18 j 09:32	27°♋24'36	
	-10778 Dec 14 j 00:35	0°♌	
retrograde	-10777 Jan 20 j 11:05	0°♌33'54	
	-10777 Feb 28 j 00:07	30°℞♋	
min. Earth dist.	-10777 Apr 07 j 10:54	28°♋37'38	18.87359 AU
opposition	-10777 Apr 08 j 18:34	28°♋34'28	1°05'42
direct	-10777 Jun 23 j 15:37	26°♋37'47	
evening set	-10777 Sep 21 j 06:14	29°♋38'38	
	-10777 Sep 27 j 11:46	0°♌	
conjunction	-10777 Oct 06 j 21:37	0°♌32'46	0°58'03
minimum elong	-10777 Oct 06 j 21:37	0°♌32'46	0°58'36
max. Earth dist.	-10777 Oct 08 j 06:42	0°♌37'34	20.89835 AU
morning rise	-10777 Oct 22 j 16:23	1°♌27'22	
retrograde	-10776 Jan 24 j 21:13	4°♌36'09	
min. Earth dist.	-10776 Apr 10 j 20:39	2°♌39'57	18.92345 AU
opposition	-10776 Apr 12 j 05:06	2°♌36'42	1°02'39
direct	-10776 Jun 26 j 23:41	0°♌40'11	
evening set	-10776 Sep 24 j 10:51	3°♌40'07	

Attention, astronomical year style is used: The year -10776 in astronomical counting style is the year 10777 BCE in historical counting style.

conjunction	-10776 Oct 10 j 03:01	4°♌34'09	0°55'11	
minimum elong	-10776 Oct 10 j 03:01	4°♌34'10	0°55'42	
max. Earth dist.	-10776 Oct 11 j 13:20	4°♌39'07	20.94603 AU	
morning rise	-10776 Oct 25 j 22:37	5°♌28'41		
retrograde	-10775 Jan 28 j 04:29	8°♌36'58		
min. Earth dist.	-10775 Apr 15 j 06:47	6°♌40'44	18.96915 AU	
opposition	-10775 Apr 16 j 14:53	6°♌37'31	0°59'19	
direct	-10775 Jul 01 j 07:34	4°♌41'08		
evening set	-10775 Sep 28 j 15:13	7°♌40'15		
conjunction	-10775 Oct 14 j 08:07	8°♌34'12	0°52'04	
minimum elong	-10775 Oct 14 j 08:08	8°♌34'12	0°52'35	
max. Earth dist.	-10775 Oct 15 j 17:55	8°♌39'05	20.98997 AU	
morning rise	-10775 Oct 30 j 04:49	9°♌28'40		
retrograde	-10774 Feb 01 j 13:38	12°♌36'31		
opposition	-10774 Apr 20 j 23:53	10°♌37'03	0°55'43	
min. Earth dist.	-10774 Apr 19 j 15:10	10°♌40'19	19.01131 AU	
direct	-10774 Jul 05 j 13:57	8°♌40'47		
evening set	-10774 Oct 02 j 19:14	11°♌39'10		
conjunction	-10774 Oct 18 j 13:05	12°♌33'03	0°48'43	
minimum elong	-10774 Oct 18 j 13:06	12°♌33'03	0°49'11	
max. Earth dist.	-10774 Oct 19 j 23:57	12°♌38'04	21.03024 AU	
morning rise	-10774 Nov 03 j 10:43	13°♌27'29		
	-10774 Dec 03 j 07:55	15°♌		
retrograde	-10773 Feb 05 j 20:35	16°♌34'54		
	-10773 Apr 15 j 01:03	15°℞♌		
min. Earth dist.	-10773 Apr 23 j 23:56	14°♌38'41	19.04979 AU	
opposition	-10773 Apr 25 j 08:15	14°♌35'27	0°51'53	
direct	-10773 Jul 09 j 20:21	12°♌39'20		
	-10773 Sep 25 j 15:33	15°♌		
evening set	-10773 Oct 06 j 23:10	15°♌37'03		
conjunction	-10773 Oct 22 j 17:50	16°♌30'54	0°45'09	
minimum elong	-10773 Oct 22 j 17:50	16°♌30'54	0°45'36	
max. Earth dist.	-10773 Oct 24 j 03:50	16°♌35'46	21.06705 AU	
morning rise	-10773 Nov 07 j 16:35	17°♌25'18		
retrograde	-10772 Feb 10 j 05:15	20°♌32'22		
min. Earth dist.	-10772 Apr 27 j 07:17	18°♌36'11	19.08482 AU	
opposition	-10772 Apr 28 j 15:51	18°♌32'56	0°47'49	
direct	-10772 Jul 13 j 01:44	16°♌36'56		
evening set	-10772 Oct 10 j 02:50	19°♌34'06		
conjunction	-10772 Oct 25 j 22:32	20°♌27'56	0°41'23	
minimum elong	-10772 Oct 25 j 22:32	20°♌27'56	0°41'48	
max. Earth dist.	-10772 Oct 27 j 09:20	20°♌32'54	21.10020 AU	
morning rise	-10772 Nov 10 j 22:14	21°♌22'20		
retrograde	-10771 Feb 13 j 11:54	24°♌29'05		
opposition	-10771 May 02 j 23:05	22°♌29'42	0°43'31	
min. Earth dist.	-10771 May 01 j 15:07	22°♌32'54	19.11604 AU	
direct	-10771 Jul 17 j 06:23	20°♌33'51		
evening set	-10771 Oct 14 j 06:25	23°♌30'32		
conjunction	-10771 Oct 30 j 03:02	24°♌24'22	0°37'25	
minimum elong	-10771 Oct 30 j 03:03	24°♌24'22	0°37'49	
max. Earth dist.	-10771 Oct 31 j 12:44	24°♌29'10	21.12960 AU	
morning rise	-10771 Nov 15 j 03:59	25°♌18'46		
retrograde	-10770 Feb 17 j 20:26	28°♌25'18		
min. Earth dist.	-10770 May 05 j 22:05	26°♌29'08	19.14333 AU	
opposition	-10770 May 07 j 05:52	26°♌25'57	0°39'02	
direct	-10770 Jul 21 j 11:11	24°♌30'13		
evening set	-10770 Oct 18 j 10:09	27°♌26'32		
conjunction	-10770 Nov 03 j 07:52	28°♌20'23	0°33'17	
minimum elong	-10770 Nov 03 j 07:53	28°♌20'23	0°33'39	
max. Earth dist.	-10770 Nov 04 j 17:59	28°♌25'14	21.15464 AU	
morning rise	-10770 Nov 19 j 09:49	29°♌14'49		
	-10770 Dec 03 j 10:01	0°♍		
retrograde	-10769 Feb 22 j 03:07	2°♍21'07		
min. Earth dist.	-10769 May 10 j 05:22	0°♍24'56	19.16599 AU	
opposition	-10769 May 11 j 12:03	0°♍21'51	0°34'23	
	-10769 May 20 j 15:23	30°℞♌		
direct	-10769 Jul 25 j 14:48	28°♌26'14		
	-10769 Sep 25 j 22:31	0°♍		
evening set	-10769 Oct 22 j 14:04	1°♍22'16		
conjunction	-10769 Nov 07 j 12:44	2°♍16'08	0°29'00	
minimum elong	-10769 Nov 07 j 12:44	2°♍16'08	0°29'20	
max. Earth dist.	-10769 Nov 08 j 21:11	2°♍20'44	21.17500 AU	
morning rise	-10769 Nov 23 j 15:53	3°♍10'37		
retrograde	-10768 Feb 26 j 11:16	6°♍16'47		
opposition	-10768 May 14 j 18:02	4°♍17'34	0°29'33	
min. Earth dist.	-10768 May 13 j 12:06	4°♍20'34	19.18375 AU	
direct	-10768 Jul 28 j 18:51	2°♍22'01		
evening set	-10768 Oct 25 j 17:57	5°♍17'50		
conjunction	-10768 Nov 10 j 17:44	6°♍11'46	0°24'35	
minimum elong	-10768 Nov 10 j 17:44	6°♍11'46	0°24'53	
max. Earth dist.	-10768 Nov 12 j 02:09	6°♍16'21	21.18999 AU	
morning rise	-10768 Nov 26 j 21:51	7°♍06'18		
retrograde	-10767 Mar 01 j 18:12	10°♍12'21		
opposition	-10767 May 18 j 23:42	8°♍13'11	0°24'36	
min. Earth dist.	-10767 May 17 j 19:09	8°♍16'03	19.19587 AU	
direct	-10767 Aug 01 j 22:31	6°♍17'41		
evening set	-10767 Oct 29 j 22:15	9°♍13'22		
conjunction	-10767 Nov 14 j 23:02	10°♍07'22	0°20'03	
minimum elong	-10767 Nov 14 j 23:02	10°♍07'22	0°20'18	
max. Earth dist.	-10767 Nov 16 j 05:16	10°♍11'38	21.19932 AU	
morning rise	-10767 Dec 01 j 04:23	11°♍01'59		
retrograde	-10766 Mar 06 j 02:07	14°♍07'57		
min. Earth dist.	-10766 May 22 j 01:46	12°♍11'31	19.20215 AU	
opposition	-10766 May 23 j 05:02	12°♍08'47	0°19'31	
direct	-10766 Aug 06 j 01:40	10°♍13'16		
evening set	-10766 Nov 03 j 02:47	13°♍08'54		
conjunction	-10766 Nov 19 j 04:46	14°♍03'00	0°15'25	
minimum elong	-10766 Nov 19 j 04:46	14°♍03'00	0°15'39	
behind sun begin	-10766 Nov 19 j 03:22	14°♍02'48		
behind sun end	-10766 Nov 19 j 06:11	14°♍03'11		
max. Earth dist.	-10766 Nov 20 j 10:23	14°♍07'10	21.20242 AU	
morning rise	-10766 Dec 05 j 11:06	14°♍57'42		
retrograde	-10765 Mar 10 j 09:10	18°♍03'36		
min. Earth dist.	-10765 May 26 j 08:35	16°♍07'00	19.20199 AU	
opposition	-10765 May 27 j 10:10	16°♍04'25	0°14'22	
direct	-10765 Aug 10 j 05:50	14°♍08'52		
evening set	-10765 Nov 07 j 07:35	17°♍04'29		
conjunction	-10765 Nov 23 j 10:33	17°♍58'41	0°10'44	
minimum elong	-10765 Nov 23 j 10:33	17°♍58'41	0°10'54	
behind sun begin	-10765 Nov 23 j 05:32	17°♍57'59		
behind sun end	-10765 Nov 23 j 15:35	17°♍59'22		
max. Earth dist.	-10765 Nov 24 j 13:32	18°♍02'29	21.19924 AU	
morning rise	-10765 Dec 09 j 18:05	18°♍53'29		
retrograde	-10764 Mar 13 j 16:50	21°♍59'22		
opposition	-10764 May 30 j 15:01	20°♍00'07	0°09'08	
min. Earth dist.	-10764 May 29 j 14:57	20°♍02'32	19.19567 AU	
direct	-10764 Aug 13 j 08:39	18°♍04'26		
evening set	-10764 Nov 10 j 12:33	21°♍00'09		
conjunction	-10764 Nov 26 j 16:44	21°♍54'27	0°06'00	
minimum elong	-10764 Nov 26 j 16:44	21°♍54'27	0°06'08	
behind sun begin	-10764 Nov 26 j 10:25	21°♍53'35		
behind sun end	-10764 Nov 26 j 23:03	21°♍55'19		

Attention, astronomical year style is used: The year -10764 in astronomical counting style is the year 10765 BCE in historical counting style.

max. Earth dist.	-10764 Nov 27 j 18:57	21°♑58'08	21.18990 AU
morning rise	-10764 Dec 13 j 01:12	22°♑49'22	
retrograde	-10763 Mar 17 j 23:31	25°♑55'14	
opposition	-10763 Jun 03 j 19:41	23°♑55'54	0°03'52
min. Earth dist.	-10763 Jun 02 j 21:18	23°♑58'10	19.18335 AU
direct	-10763 Aug 17 j 12:53	22°♑00'05	
evening set	-10763 Nov 14 j 17:50	24°♑55'55	
conjunction	-10763 Nov 30 j 23:01	25°♑50'21	0°01'12
minimum elong	-10763 Nov 30 j 23:03	25°♑50'21	0°01'18
behind sun begin	-10763 Nov 30 j 16:23	25°♑49'27	
behind sun end	-10763 Dec 01 j 05:43	25°♑51'16	
max. Earth dist.	-10763 Dec 01 j 22:37	25°♑53'40	21.17498 AU
morning rise	-10763 Dec 17 j 08:44	26°♑45'24	
desc. node	-10762 Mar 03 j 05:33	29°♑42'35	
retrograde	-10762 Mar 22 j 07:32	29°♑51'19	
min. Earth dist.	-10762 Jun 07 j 03:26	27°♑53'58	19.16575 AU
opposition	-10762 Jun 08 j 00:12	27°♑51'52	-0°01'25
direct	-10762 Aug 21 j 16:12	25°♑55'50	
evening set	-10762 Nov 18 j 23:32	28°♑51'55	
conjunction	-10762 Dec 05 j 05:57	29°♑46'30	-0°03'41
minimum elong	-10762 Dec 05 j 05:57	29°♑46'30	0°03'39
behind sun begin	-10762 Dec 04 j 23:19	29°♑45'35	
behind sun end	-10762 Dec 05 j 12:34	29°♑47'24	
max. Earth dist.	-10762 Dec 06 j 04:44	29°♑49'42	21.15482 AU
	-10762 Dec 09 j 05:44	0°♎	
morning rise	-10762 Dec 21 j 16:30	0°♎41'41	
retrograde	-10761 Mar 26 j 13:58	3°♎47'39	
min. Earth dist.	-10761 Jun 11 j 09:21	1°♎50'02	19.14316 AU
opposition	-10761 Jun 12 j 04:26	1°♎48'05	-0°06'41
	-10761 Aug 08 j 00:18	30°℞♑	
direct	-10761 Aug 25 j 19:48	29°♑51'53	
	-10761 Sep 12 j 13:43	0°♎	
evening set	-10761 Nov 23 j 05:42	2°♎48'15	
conjunction	-10761 Dec 09 j 13:04	3°♎43'00	-0°08'26
minimum elong	-10761 Dec 09 j 13:03	3°♎43'00	0°08'25
behind sun begin	-10761 Dec 09 j 07:12	3°♎42'12	
behind sun end	-10761 Dec 09 j 18:55	3°♎43'48	
max. Earth dist.	-10761 Dec 10 j 09:07	3°♎45'49	21.13013 AU
morning rise	-10761 Dec 26 j 00:43	4°♎38'20	
retrograde	-10760 Mar 29 j 22:31	7°♎44'27	
opposition	-10760 Jun 15 j 08:48	5°♎44'45	-0°11'57
min. Earth dist.	-10760 Jun 14 j 15:19	5°♎46'32	19.11635 AU
direct	-10760 Aug 28 j 23:40	3°♎48'19	
evening set	-10760 Nov 26 j 12:03	6°♎45'06	
conjunction	-10760 Dec 12 j 20:35	7°♎40'01	-0°13'10
minimum elong	-10760 Dec 12 j 20:35	7°♎40'01	0°13'11
behind sun begin	-10760 Dec 12 j 16:44	7°♎39'30	
behind sun end	-10760 Dec 13 j 00:26	7°♎40'33	
max. Earth dist.	-10760 Dec 13 j 15:55	7°♎42'45	21.10120 AU
morning rise	-10760 Dec 29 j 09:02	8°♎35'31	
retrograde	-10759 Apr 03 j 05:08	11°♎41'49	
opposition	-10759 Jun 19 j 13:11	9°♎42'02	-0°17'10
min. Earth dist.	-10759 Jun 18 j 21:18	9°♎43'40	19.08538 AU
direct	-10759 Sep 02 j 03:01	7°♎45'23	
evening set	-10759 Nov 30 j 19:13	10°♎42'39	
conjunction	-10759 Dec 17 j 04:42	11°♎37'46	-0°17'51
minimum elong	-10759 Dec 17 j 04:42	11°♎37'46	0°17'53
max. Earth dist.	-10759 Dec 17 j 21:08	11°♎40'04	21.06843 AU
morning rise	-10758 Jan 02 j 18:13	12°♎33'27	
retrograde	-10758 Apr 07 j 14:07	15°♎39'58	
opposition	-10758 Jun 23 j 17:36	13°♎40'06	-0°22'19
min. Earth dist.	-10758 Jun 23 j 03:34	13°♎41'32	19.05071 AU
direct	-10758 Sep 06 j 07:23	11°♎43'13	
evening set	-10758 Dec 05 j 02:58	14°♎41'04	
conjunction	-10758 Dec 21 j 13:35	15°♎36'24	-0°22'28
minimum elong	-10758 Dec 21 j 13:35	15°♎36'24	0°22'34
max. Earth dist.	-10758 Dec 22 j 05:01	15°♎38'35	21.03181 AU
morning rise	-10757 Jan 07 j 03:49	16°♎32'16	
retrograde	-10757 Apr 11 j 21:47	19°♎39'04	
opposition	-10757 Jun 27 j 22:15	17°♎39'08	-0°27'23
min. Earth dist.	-10757 Jun 27 j 09:58	17°♎40'24	19.01212 AU
direct	-10757 Sep 10 j 11:26	15°♎42'02	
evening set	-10757 Dec 09 j 11:23	18°♎40'33	
conjunction	-10757 Dec 25 j 22:50	19°♎36'06	-0°27'00
minimum elong	-10757 Dec 25 j 22:50	19°♎36'06	0°27'09
max. Earth dist.	-10757 Dec 26 j 11:07	19°♎37'50	20.99142 AU
morning rise	-10756 Jan 11 j 14:00	20°♎32'10	
retrograde	-10756 Apr 15 j 06:54	23°♎39'19	
opposition	-10756 Jul 01 j 03:10	21°♎39'20	-0°32'22
min. Earth dist.	-10756 Jun 30 j 16:58	21°♎40'23	18.96982 AU
direct	-10756 Sep 13 j 16:06	19°♎41'59	
evening set	-10756 Dec 12 j 20:32	22°♎41'16	
conjunction	-10756 Dec 29 j 09:03	23°♎37'03	-0°31'26
minimum elong	-10756 Dec 29 j 09:03	23°♎37'03	0°31'37
max. Earth dist.	-10756 Dec 29 j 20:07	23°♎38'37	20.94711 AU
morning rise	-10755 Jan 15 j 00:48	24°♎33'19	
retrograde	-10755 Apr 19 j 16:11	27°♎40'51	
opposition	-10755 Jul 05 j 08:18	25°♎40'48	-0°37'12
min. Earth dist.	-10755 Jul 05 j 00:05	25°♎41'39	18.92345 AU
direct	-10755 Sep 17 j 21:20	23°♎43'12	
evening set	-10755 Dec 17 j 06:39	26°♎43'20	
conjunction	-10754 Jan 02 j 19:58	27°♎39'22	-0°35'44
minimum elong	-10754 Jan 02 j 19:57	27°♎39'22	0°35'58
max. Earth dist.	-10754 Jan 03 j 03:24	27°♎40'25	20.89875 AU
morning rise	-10754 Jan 19 j 12:35	28°♎35'52	
	-10754 Feb 15 j 14:57	0°♏	
retrograde	-10754 Apr 24 j 01:49	1°♏43'48	
	-10754 Jul 03 j 00:07	30°℞♎	
opposition	-10754 Jul 09 j 13:55	29°♎43'42	-0°41'53
min. Earth dist.	-10754 Jul 09 j 08:12	29°♎44'17	18.87293 AU
direct	-10754 Sep 22 j 02:39	27°♎45'48	
	-10754 Dec 07 j 05:14	0°♏	
evening set	-10754 Dec 21 j 17:36	0°♏46'51	
conjunction	-10753 Jan 07 j 07:54	1°♏43'09	-0°39'53
minimum elong	-10753 Jan 07 j 07:54	1°♏43'09	0°40'08
max. Earth dist.	-10753 Jan 07 j 13:41	1°♏43'58	20.84589 AU
morning rise	-10753 Jan 24 j 00:56	2°♏39'52	
retrograde	-10753 Apr 28 j 12:28	5°♏48'14	
opposition	-10753 Jul 13 j 19:50	3°♏48'04	-0°46'23
min. Earth dist.	-10753 Jul 13 j 16:16	3°♏48'26	18.81778 AU
direct	-10753 Sep 26 j 09:25	1°♏49'51	
evening set	-10753 Dec 26 j 05:28	4°♏51'53	
conjunction	-10752 Jan 11 j 20:26	5°♏48'26	-0°43'50
minimum elong	-10752 Jan 11 j 20:26	5°♏48'26	0°44'09
max. Earth dist.	-10752 Jan 11 j 22:13	5°♏48'42	20.78854 AU
morning rise	-10752 Jan 28 j 14:11	6°♏45'23	
retrograde	-10752 May 01 j 22:51	9°♏54'15	
opposition	-10752 Jul 17 j 02:21	7°♏53'57	-0°50'40
min. Earth dist.	-10752 Jul 17 j 01:27	7°♏54'03	18.75824 AU
direct	-10752 Sep 29 j 15:54	5°♏55'22	
evening set	-10752 Dec 29 j 17:54	8°♏58'25	
conjunction	-10751 Jan 15 j 09:49	9°♏55'15	-0°47'36

Attention, astronomical year style is used: The year -10751 in astronomical counting style is the year 10752 BCE in historical counting style.

minimum elong	-10751 Jan 15 j 09:48	9°♏55'15	0°47'55	
max. Earth dist.	-10751 Jan 15 j 09:53	9°♏55'16	20.72673 AU	
morning rise	-10751 Feb 01 j 03:55	10°♏52'27		
retrograde	-10751 May 06 j 10:24	14°♏01'47		
opposition	-10751 Jul 21 j 09:16	12°♏01'22	-0°54'43	
min. Earth dist.	-10751 Jul 21 j 10:25	12°♏01'14	18.69426 AU	
direct	-10751 Oct 04 j 00:11	10°♏02'22		
evening set	-10750 Jan 03 j 07:31	13°♏06'30		
conjunction	-10750 Jan 19 j 23:59	14°♏03'37	-0°51'07	
minimum elong	-10750 Jan 19 j 23:59	14°♏03'37	0°51'30	
max. Earth dist.	-10750 Jan 19 j 20:00	14°♏03'03	20.66086 AU	
morning rise	-10750 Feb 05 j 18:42	15°♏01'03		
	-10750 Feb 05 j 11:10	15°♏		
retrograde	-10750 May 10 j 21:40	18°♏10'53		
opposition	-10750 Jul 25 j 16:35	16°♏10'18	-0°58'31	
min. Earth dist.	-10750 Jul 25 j 20:31	16°♏09'54	18.62662 AU	
	-10750 Aug 24 j 12:32	15°℞♏		
direct	-10750 Oct 08 j 08:11	14°♏10'52		
	-10750 Nov 21 j 10:22	15°♏		
evening set	-10749 Jan 07 j 21:49	17°♏16'09		
conjunction	-10749 Jan 24 j 15:07	18°♏13'33	-0°54'24	
minimum elong	-10749 Jan 24 j 15:06	18°♏13'33	0°54'49	
max. Earth dist.	-10749 Jan 24 j 09:32	18°♏12'45	20.59154 AU	
morning rise	-10749 Feb 10 j 09:59	19°♏11'14		
retrograde	-10749 May 15 j 10:04	22°♏21'35		
opposition	-10749 Jul 30 j 00:27	20°♏20'50	-1°02'01	
min. Earth dist.	-10749 Jul 30 j 06:09	20°♏20'14	18.55587 AU	
direct	-10749 Oct 12 j 17:44	18°♏20'57		
evening set	-10748 Jan 12 j 12:57	21°♏27'25		
conjunction	-10748 Jan 29 j 06:38	22°♏25'06	-0°57'24	
minimum elong	-10748 Jan 29 j 06:38	22°♏25'06	0°57'51	
max. Earth dist.	-10748 Jan 28 j 21:20	22°♏23'46	20.51961 AU	
morning rise	-10748 Feb 15 j 01:56	23°♏23'02		
retrograde	-10748 May 18 j 22:20	26°♏33'57		
opposition	-10748 Aug 02 j 08:55	24°♏33'01	-1°05'13	
min. Earth dist.	-10748 Aug 02 j 17:14	24°♏32'09	18.48304 AU	
direct	-10748 Oct 16 j 03:10	22°♏32'39		
evening set	-10747 Jan 16 j 04:53	25°♏40'22		
conjunction	-10747 Feb 01 j 23:16	26°♏38'22	-1°00'07	
minimum elong	-10747 Feb 01 j 23:16	26°♏38'22	1°00'36	
max. Earth dist.	-10747 Feb 01 j 12:40	26°♏36'50	20.44589 AU	
morning rise	-10747 Feb 18 j 18:36	27°♏36'33		
	-10747 Apr 09 j 16:25	0°♐		
retrograde	-10747 May 23 j 12:05	0°♐48'01		
	-10747 Jul 06 j 21:38	30°℞♏		
opposition	-10747 Aug 06 j 17:48	28°♏46'57	-1°08'05	
min. Earth dist.	-10747 Aug 07 j 03:36	28°♏45'54	18.40871 AU	
direct	-10747 Oct 20 j 14:01	26°♏46'06		
evening set	-10746 Jan 20 j 21:58	29°♏55'08		
	-10746 Jan 22 j 08:06	0°♐		
conjunction	-10746 Feb 06 j 16:38	0°♐53'26	-1°02'32	
minimum elong	-10746 Feb 06 j 16:38	0°♐53'25	1°03'01	
max. Earth dist.	-10746 Feb 06 j 02:27	0°♐51'21	20.37110 AU	
morning rise	-10746 Feb 23 j 12:14	1°♐51'52		
retrograde	-10746 May 28 j 01:40	5°♐03'57		
opposition	-10746 Aug 11 j 03:36	3°♐02'44	-1°10'36	
min. Earth dist.	-10746 Aug 11 j 15:57	3°♐01'25	18.33373 AU	
direct	-10746 Oct 25 j 00:40	1°♐01'24		
evening set	-10745 Jan 25 j 15:44	4°♐11'49		
conjunction	-10745 Feb 11 j 10:56	5°♐10'24	-1°04'37	
minimum elong	-10745 Feb 11 j 10:55	5°♐10'24	1°05'08	
max. Earth dist.	-10745 Feb 10 j 19:36	5°♐08'10	20.29585 AU	
morning rise	-10745 Feb 28 j 06:23	6°♐09'06		
retrograde	-10745 Jun 01 j 17:28	9°♐21'48		
opposition	-10745 Aug 15 j 13:58	7°♐20'28	-1°12'45	
min. Earth dist.	-10745 Aug 16 j 03:29	7°♐19'02	18.25848 AU	
direct	-10745 Oct 29 j 13:16	5°♐18'43		
evening set	-10744 Jan 30 j 10:37	8°♐30'32		
max. Earth dist.	-10744 Feb 15 j 11:20	9°♐26'41	20.22070 AU	
conjunction	-10744 Feb 16 j 05:57	9°♐29'25	-1°06'21	
minimum elong	-10744 Feb 16 j 05:56	9°♐29'25	1°06'53	
morning rise	-10744 Mar 04 j 01:28	10°♐28'23		
retrograde	-10744 Jun 05 j 08:21	13°♐41'44		
opposition	-10744 Aug 19 j 01:15	11°♐40'19	-1°14'31	
min. Earth dist.	-10744 Aug 19 j 17:17	11°♐38'36	18.18366 AU	
direct	-10744 Nov 02 j 00:57	9°♐38'08		
evening set	-10743 Feb 03 j 06:13	12°♐51'23		
max. Earth dist.	-10743 Feb 19 j 06:14	13°♐47'40	20.14611 AU	
conjunction	-10743 Feb 20 j 01:57	13°♐50'35	-1°07'44	
minimum elong	-10743 Feb 20 j 01:57	13°♐50'35	1°08'17	
morning rise	-10743 Mar 08 j 21:17	14°♐49'47		
retrograde	-10743 Jun 10 j 02:28	18°♐03'49		
opposition	-10743 Aug 23 j 13:17	16°♐02'20	-1°15'52	
min. Earth dist.	-10743 Aug 24 j 06:19	16°♐00'30	18.10933 AU	
direct	-10743 Nov 06 j 15:17	13°♐59'46		
evening set	-10742 Feb 08 j 03:10	17°♐14'29		
conjunction	-10742 Feb 24 j 22:54	18°♐13'59	-1°08'43	
minimum elong	-10742 Feb 24 j 22:54	18°♐13'59	1°09'18	
max. Earth dist.	-10742 Feb 24 j 00:05	18°♐10'36	20.07205 AU	
morning rise	-10742 Mar 13 j 18:04	19°♐13'27		
retrograde	-10742 Jun 14 j 18:50	22°♐28'10		
opposition	-10742 Aug 28 j 02:14	20°♐26'38	-1°16'47	
min. Earth dist.	-10742 Aug 28 j 21:59	20°♐24'31	18.03572 AU	
direct	-10742 Nov 11 j 04:57	18°♐23'40		
evening set	-10741 Feb 13 j 00:58	21°♐39'54		
conjunction	-10741 Mar 01 j 20:51	22°♐39'42	-1°09'19	
minimum elong	-10741 Mar 01 j 20:51	22°♐39'42	1°09'54	
max. Earth dist.	-10741 Feb 28 j 20:44	22°♐36'06	19.99875 AU	
morning rise	-10741 Mar 18 j 15:39	23°♐39'24		
retrograde	-10741 Jun 19 j 14:24	26°♐54'48		
opposition	-10741 Sep 01 j 16:08	24°♐53'14	-1°17'15	
min. Earth dist.	-10741 Sep 02 j 12:45	24°♐51'01	17.96273 AU	
direct	-10741 Nov 15 j 20:59	22°♐49'55		
evening set	-10740 Feb 17 j 23:42	26°♐07'37		
conjunction	-10740 Mar 05 j 19:26	27°♐07'42	-1°09'30	
minimum elong	-10740 Mar 05 j 19:26	27°♐07'42	1°10'06	
max. Earth dist.	-10740 Mar 04 j 16:35	27°♐03'41	19.92597 AU	
morning rise	-10740 Mar 22 j 13:52	28°♐07'39		
	-10740 Apr 26 j 21:51	0°♑		
retrograde	-10740 Jun 23 j 08:21	1°♑23'45		
	-10740 Aug 21 j 10:50	30°℞♐		
opposition	-10740 Sep 05 j 07:07	29°♐22'07	-1°17'15	
min. Earth dist.	-10740 Sep 06 j 06:27	29°♐19'36	17.89039 AU	
direct	-10740 Nov 19 j 13:04	27°♐18'23		
	-10739 Feb 11 j 01:50	0°♑		
evening set	-10739 Feb 21 j 23:25	0°♑37'36		
conjunction	-10739 Mar 10 j 19:06	1°♑37'57	-1°09'15	
minimum elong	-10739 Mar 10 j 19:06	1°♑37'57	1°09'50	
max. Earth dist.	-10739 Mar 09 j 14:39	1°♑33'39	19.85390 AU	
morning rise	-10739 Mar 27 j 13:05	2°♑38'07		
retrograde	-10739 Jun 28 j 04:47	5°♑54'52		
opposition	-10739 Sep 09 j 22:49	3°♑53'11	-1°16'46	

Attention, astronomical year style is used: The year -10739 in astronomical counting style is the year 10740 BCE in historical counting style.

min. Earth dist.	-10739 Sep 10 j 22:56	3°♉50'33	17.81864 AU
direct	-10739 Nov 24 j 07:38	1°♉49'03	
evening set	-10738 Feb 27 j 00:10	5°♉09'42	
conjunction	-10738 Mar 15 j 19:37	6°♉10'19	-1°08'34
minimum elong	-10738 Mar 15 j 19:37	6°♉10'20	1°09'09
max. Earth dist.	-10738 Mar 14 j 12:49	6°♉05'39	19.78244 AU
morning rise	-10738 Apr 01 j 12:59	7°♉10'41	
retrograde	-10738 Jul 02 j 23:44	10°♉28'05	
opposition	-10738 Sep 14 j 15:45	8°♉26'18	-1°15'47
min. Earth dist.	-10738 Sep 15 j 18:27	8°♉23'24	17.74780 AU
direct	-10738 Nov 29 j 02:11	6°♉21'46	
evening set	-10737 Mar 04 j 01:29	9°♉43'49	
conjunction	-10737 Mar 20 j 20:36	10°♉44'41	-1°07'26
minimum elong	-10737 Mar 20 j 20:36	10°♉44'41	1°08'03
max. Earth dist.	-10737 Mar 19 j 12:12	10°♉39'45	19.71227 AU
morning rise	-10737 Apr 06 j 13:24	11°♉45'14	
retrograde	-10737 Jul 07 j 21:01	15°♉03'14	
opposition	-10737 Sep 19 j 09:26	13°♉01'22	-1°14'20
min. Earth dist.	-10737 Sep 20 j 12:30	12°♉58'25	17.67844 AU
direct	-10737 Dec 03 j 23:27	10°♉56'24	
evening set	-10736 Mar 08 j 03:33	14°♉19'49	
conjunction	-10736 Mar 24 j 22:20	15°♉20'55	-1°05'53
minimum elong	-10736 Mar 24 j 22:20	15°♉20'55	1°06'28
max. Earth dist.	-10736 Mar 23 j 12:36	15°♉15'45	19.64385 AU
morning rise	-10736 Apr 10 j 14:20	16°♉21'39	
retrograde	-10736 Jul 11 j 16:59	19°♉40'13	
opposition	-10736 Sep 23 j 04:03	17°♉38'14	-1°12'23
min. Earth dist.	-10736 Sep 24 j 09:17	17°♉35'02	17.61134 AU
direct	-10736 Dec 07 j 20:12	15°♉32'52	
evening set	-10735 Mar 13 j 06:14	18°♉57'35	
max. Earth dist.	-10735 Mar 28 j 13:16	19°♉53'28	19.57822 AU
conjunction	-10735 Mar 30 j 00:29	19°♉58'53	-1°03'53
minimum elong	-10735 Mar 30 j 00:30	19°♉58'53	1°04'29
morning rise	-10735 Apr 15 j 15:52	20°♉59'47	
retrograde	-10735 Jul 16 j 15:09	24°♉18'55	
opposition	-10735 Sep 27 j 23:28	22°♉16'48	-1°09'58
min. Earth dist.	-10735 Sep 29 j 04:43	22°♉13'36	17.54729 AU
direct	-10735 Dec 12 j 19:33	20°♉11'02	
evening set	-10734 Mar 18 j 09:27	23°♉37'00	
max. Earth dist.	-10734 Apr 02 j 15:44	24°♉33'01	19.51589 AU
conjunction	-10734 Apr 04 j 03:13	24°♉38'29	-1°01'28
minimum elong	-10734 Apr 04 j 03:13	24°♉38'29	1°02'02
morning rise	-10734 Apr 20 j 17:35	25°♉39'32	
retrograde	-10734 Jul 21 j 12:26	28°♉59'11	
opposition	-10734 Oct 02 j 19:57	26°♉56'59	-1°07'04
min. Earth dist.	-10734 Oct 04 j 02:44	26°♉53'37	17.48705 AU
direct	-10734 Dec 17 j 18:12	24°♉50'52	
evening set	-10733 Mar 23 j 13:13	28°♉18'00	
max. Earth dist.	-10733 Apr 07 j 17:30	29°♉13'58	19.45796 AU
conjunction	-10733 Apr 09 j 06:10	29°♉19'39	-0°58'38
minimum elong	-10733 Apr 09 j 06:11	29°♉19'39	0°59'11
	-10733 Apr 20 j 03:12	0°♒	
morning rise	-10733 Apr 25 j 19:47	0°♒20'49	
retrograde	-10733 Jul 26 j 11:47	3°♒40'59	
opposition	-10733 Oct 07 j 17:11	1°♒38'41	-1°03'42
min. Earth dist.	-10733 Oct 08 j 23:31	1°♒35'22	17.43160 AU
	-10733 Nov 19 j 22:01	30°℞♉	
direct	-10733 Dec 22 j 19:12	29°♉32'15	
	-10732 Jan 24 j 06:51	0°♒	
evening set	-10732 Mar 27 j 17:06	3°♒00'30	
max. Earth dist.	-10732 Apr 11 j 21:38	3°♒56'42	19.40503 AU

conjunction	-10732 Apr 13 j 09:29	4°♒02'17	-0°55'24
minimum elong	-10732 Apr 13 j 09:29	4°♒02'17	0°55'55
morning rise	-10732 Apr 29 j 21:58	5°♒03'33	
retrograde	-10732 Jul 30 j 10:20	8°♒24'13	
opposition	-10732 Oct 11 j 15:24	6°♒21'52	-0°59'54
min. Earth dist.	-10732 Oct 12 j 22:33	6°♒18'27	17.38142 AU
direct	-10732 Dec 26 j 19:16	4°♒15'11	
evening set	-10731 Apr 01 j 21:42	7°♒44'27	
max. Earth dist.	-10731 Apr 17 j 00:16	8°♒40'36	19.35782 AU
conjunction	-10731 Apr 18 j 13:05	8°♒46'21	-0°51'46
minimum elong	-10731 Apr 18 j 13:05	8°♒46'21	0°52'15
morning rise	-10731 May 05 j 00:41	9°♒47'42	
retrograde	-10731 Aug 04 j 10:50	13°♒08'49	
opposition	-10731 Oct 16 j 14:16	11°♒06'27	-0°55'40
min. Earth dist.	-10731 Oct 17 j 20:49	11°♒03'07	17.33722 AU
direct	-10731 Dec 31 j 21:23	8°♒59'34	
evening set	-10730 Apr 07 j 02:30	12°♒29'48	
max. Earth dist.	-10730 Apr 22 j 05:51	13°♒26'16	19.31670 AU
conjunction	-10730 Apr 23 j 17:07	13°♒31'47	-0°47'47
minimum elong	-10730 Apr 23 j 17:08	13°♒31'48	0°48'16
morning rise	-10730 May 10 j 03:28	14°♒33'13	
	-10730 May 17 j 12:55	15°♒	
retrograde	-10730 Aug 09 j 11:06	17°♒54'45	
opposition	-10730 Oct 21 j 14:15	15°♒52'25	-0°51'01
min. Earth dist.	-10730 Oct 22 j 20:53	15°♒49'04	17.29919 AU
	-10730 Nov 11 j 03:50	15°℞♒	
direct	-10729 Jan 05 j 22:51	13°♒45'26	
	-10729 Mar 01 j 03:00	15°♒	
evening set	-10729 Apr 12 j 07:32	17°♒16'29	
max. Earth dist.	-10729 Apr 27 j 09:14	18°♒12'55	19.28195 AU
conjunction	-10729 Apr 28 j 21:00	18°♒18'33	-0°43'26
minimum elong	-10729 Apr 28 j 21:01	18°♒18'33	0°43'52
morning rise	-10729 May 15 j 06:22	19°♒20'00	
retrograde	-10729 Aug 14 j 12:40	22°♒41'58	
opposition	-10729 Oct 26 j 14:55	20°♒39'41	-0°46'00
min. Earth dist.	-10729 Oct 27 j 20:54	20°♒36'24	17.26762 AU
direct	-10728 Jan 11 j 01:28	18°♒32'38	
evening set	-10728 Apr 16 j 12:43	22°♒04'26	
max. Earth dist.	-10728 May 01 j 15:26	23°♒01'11	19.25350 AU
conjunction	-10728 May 03 j 01:18	23°♒06'32	-0°38'46
minimum elong	-10728 May 03 j 01:18	23°♒06'32	0°39'10
morning rise	-10728 May 19 j 09:22	24°♒08'00	
retrograde	-10728 Aug 18 j 14:14	27°♒30'18	
opposition	-10728 Oct 30 j 16:15	25°♒28'07	-0°40'37
min. Earth dist.	-10728 Oct 31 j 21:49	25°♒24'53	17.24211 AU
direct	-10727 Jan 15 j 04:31	23°♒21'03	
evening set	-10727 Apr 21 j 18:14	26°♒53'29	
max. Earth dist.	-10727 May 06 j 19:29	27°♒50'11	19.23103 AU
conjunction	-10727 May 08 j 05:33	27°♒55'35	-0°33'48
minimum elong	-10727 May 08 j 05:33	27°♒55'35	0°34'10
morning rise	-10727 May 24 j 12:31	28°♒57'02	
	-10727 Jun 11 j 04:17	0°♓	
retrograde	-10727 Aug 23 j 15:56	2°♓19'40	
opposition	-10727 Nov 04 j 18:29	0°♓17'32	-0°34'57
min. Earth dist.	-10727 Nov 05 j 23:37	0°♓14'22	17.22257 AU
	-10727 Nov 11 j 11:42	30°℞♒	
direct	-10726 Jan 20 j 07:54	28°♒10'30	
	-10726 Mar 27 j 19:43	0°♓	
evening set	-10726 Apr 26 j 23:34	1°♓43'25	
max. Earth dist.	-10726 May 12 j 01:39	2°♓40'23	19.21432 AU
conjunction	-10726 May 13 j 09:47	2°♓45'29	-0°28'35

Attention, astronomical year style is used: The year -10726 in astronomical counting style is the year 10727 BCE in historical counting style.

minimum elong	-10726 May 13 j 09:47	2°♓45'29	0°28'54
morning rise	-10726 May 29 j 15:25	3°♓46'53	
retrograde	-10726 Aug 28 j 18:08	7°♓09'46	
opposition	-10726 Nov 09 j 21:26	5°♓07'43	-0°29'00
min. Earth dist.	-10726 Nov 11 j 01:23	5°♓04'40	17.20850 AU
direct	-10725 Jan 25 j 13:35	3°♓00'44	
evening set	-10725 May 02 j 04:58	6°♓33'58	
max. Earth dist.	-10725 May 17 j 06:12	7°♓30'56	19.20305 AU
conjunction	-10725 May 18 j 13:51	7°♓35'58	-0°23'09
minimum elong	-10725 May 18 j 13:51	7°♓35'58	0°23'27
morning rise	-10725 Jun 03 j 18:16	8°♓37'18	
retrograde	-10725 Sep 02 j 18:55	12°♓00'22	
opposition	-10725 Nov 15 j 00:54	9°♓58'22	-0°22'50
min. Earth dist.	-10725 Nov 16 j 04:28	9°♓55'22	17.20003 AU
direct	-10724 Jan 30 j 18:19	7°♓51'26	
evening set	-10724 May 06 j 09:57	11°♓24'50	
max. Earth dist.	-10724 May 21 j 11:47	12°♓21'59	19.19731 AU
conjunction	-10724 May 22 j 17:38	12°♓26'44	-0°17'33
minimum elong	-10724 May 22 j 17:38	12°♓26'44	0°17'47
morning rise	-10724 Jun 07 j 20:49	13°♓27'59	
retrograde	-10724 Sep 06 j 21:02	16°♓51'10	
opposition	-10724 Nov 19 j 04:45	14°♓49'11	-0°16'30
min. Earth dist.	-10724 Nov 20 j 06:28	14°♓46'24	17.19679 AU
direct	-10723 Feb 04 j 01:49	12°♓42'20	
evening set	-10723 May 11 j 14:44	16°♓15'46	
conjunction	-10723 May 27 j 21:06	17°♓17'32	-0°11'51
minimum elong	-10723 May 27 j 21:06	17°♓17'32	0°12'01
behind sun begin	-10723 May 27 j 16:32	17°♓16'49	
behind sun end	-10723 May 28 j 01:41	17°♓18'15	
max. Earth dist.	-10723 May 26 j 16:34	17°♓12'59	19.19682 AU
morning rise	-10723 Jun 12 j 22:58	18°♓18'39	
retrograde	-10723 Sep 11 j 21:11	21°♓41'52	
opposition	-10723 Nov 24 j 09:02	19°♓39'55	-0°10'03
min. Earth dist.	-10723 Nov 25 j 10:17	19°♓37'11	17.19909 AU
direct	-10722 Feb 09 j 07:19	17°♓33'09	
evening set	-10722 May 16 j 19:02	21°♓06'27	
max. Earth dist.	-10722 May 31 j 21:18	22°♓03'47	19.20207 AU
conjunction	-10722 Jun 02 j 00:03	22°♓08'03	-0°06'04
minimum elong	-10722 Jun 02 j 00:03	22°♓08'03	0°06'13
behind sun begin	-10722 Jun 01 j 17:45	22°♓07'04	
behind sun end	-10722 Jun 02 j 06:22	22°♓09'02	
morning rise	-10722 Jun 18 j 00:45	23°♓09'02	
retrograde	-10722 Sep 16 j 23:26	26°♓32'13	
opposition	-10722 Nov 29 j 13:32	24°♓30'16	-0°03'32
min. Earth dist.	-10722 Nov 30 j 12:10	24°♓27'50	17.20710 AU
direct	-10721 Feb 14 j 15:08	22°♓23'37	
evening set	-10721 May 21 j 22:34	25°♓56'36	
max. Earth dist.	-10721 Jun 06 j 02:01	26°♓54'09	19.21306 AU
conjunction	-10721 Jun 07 j 02:22	26°♓58'02	-0°00'11
minimum elong	-10721 Jun 07 j 02:20	26°♓58'02	0°00'16
behind sun begin	-10721 Jun 06 j 19:45	26°♓57'01	
behind sun end	-10721 Jun 07 j 08:56	26°♓59'04	
asc. node	-10721 Jun 18 j 09:30	27°♓41'13	
morning rise	-10721 Jun 23 j 01:44	27°♓58'51	
	-10721 Jul 29 j 03:32	0°♈	
retrograde	-10721 Sep 21 j 23:25	1°♈21'56	
	-10721 Nov 18 j 23:49	30°♑℞♓	
opposition	-10721 Dec 04 j 18:14	29°♓19'59	0°02'58
min. Earth dist.	-10721 Dec 05 j 16:02	29°♓17'39	17.22112 AU
direct	-10720 Feb 19 j 20:07	27°♓13'27	
	-10720 May 13 j 10:10	0°♈	
evening set	-10720 May 26 j 01:36	0°♈46'01	
max. Earth dist.	-10720 Jun 10 j 05:24	1°♈43'38	19.23027 AU
conjunction	-10720 Jun 11 j 03:58	1°♈47'14	0°05'43
minimum elong	-10720 Jun 11 j 03:57	1°♈47'14	0°05'40
behind sun begin	-10720 Jun 10 j 21:35	1°♈46'14	
behind sun end	-10720 Jun 11 j 10:19	1°♈48'14	
morning rise	-10720 Jun 27 j 02:17	2°♈47'52	
retrograde	-10720 Sep 26 j 01:19	6°♈10'47	
opposition	-10720 Dec 08 j 22:40	4°♈08'50	0°09'27
min. Earth dist.	-10720 Dec 09 j 17:23	4°♈06'50	17.24137 AU
direct	-10719 Feb 24 j 02:42	2°♈02'28	
evening set	-10719 May 31 j 03:50	5°♈34'28	
max. Earth dist.	-10719 Jun 15 j 09:44	6°♈32'24	19.25374 AU
conjunction	-10719 Jun 16 j 04:59	6°♈35'28	0°11'26
minimum elong	-10719 Jun 16 j 04:59	6°♈35'28	0°11'27
behind sun begin	-10719 Jun 16 j 00:09	6°♈34'43	
behind sun end	-10719 Jun 16 j 09:48	6°♈36'13	
morning rise	-10719 Jul 02 j 02:00	7°♈35'52	
retrograde	-10719 Oct 01 j 01:22	10°♈58'35	
opposition	-10719 Dec 14 j 03:28	8°♈56'40	0°15'50
min. Earth dist.	-10719 Dec 14 j 20:50	8°♈54'48	17.26810 AU
direct	-10718 Mar 01 j 07:17	6°♈50'30	
evening set	-10718 Jun 05 j 05:17	10°♈21'50	
max. Earth dist.	-10718 Jun 20 j 11:37	11°♈19'48	19.28385 AU
conjunction	-10718 Jun 21 j 04:58	11°♈22'33	0°17'05
minimum elong	-10718 Jun 21 j 04:57	11°♈22'33	0°17'09
morning rise	-10718 Jul 07 j 01:01	12°♈22'45	
retrograde	-10718 Oct 06 j 02:33	15°♈45'13	
opposition	-10718 Dec 19 j 08:00	13°♈43'20	0°22'05
min. Earth dist.	-10718 Dec 19 j 21:48	13°♈41'52	17.30148 AU
direct	-10717 Mar 06 j 12:52	11°♈37'26	
evening set	-10717 Jun 10 j 05:52	15°♈07'59	
conjunction	-10717 Jun 26 j 04:26	16°♈08'27	0°22'36
minimum elong	-10717 Jun 26 j 04:26	16°♈08'27	0°22'42
max. Earth dist.	-10717 Jun 25 j 14:57	16°♈06'18	19.32052 AU
morning rise	-10717 Jul 11 j 23:17	17°♈08'23	
retrograde	-10717 Oct 11 j 02:03	20°♈30'34	
opposition	-10717 Dec 24 j 12:20	18°♈28'46	0°28'09
min. Earth dist.	-10717 Dec 25 j 00:22	18°♈27'29	17.34133 AU
direct	-10716 Mar 10 j 17:14	16°♈23'13	
evening set	-10716 Jun 14 j 05:46	19°♈52'53	
conjunction	-10716 Jun 30 j 02:57	20°♈53'03	0°27'57
minimum elong	-10716 Jun 30 j 02:57	20°♈53'03	0°28'07
max. Earth dist.	-10716 Jun 29 j 15:13	20°♈51'12	19.36356 AU
morning rise	-10716 Jul 15 j 20:59	21°♈52'45	
retrograde	-10716 Oct 15 j 02:10	25°♈14'37	
opposition	-10716 Dec 28 j 16:23	23°♈12'56	0°34'00
min. Earth dist.	-10716 Dec 29 j 01:01	23°♈12'01	17.38730 AU
direct	-10715 Mar 15 j 21:34	21°♈07'45	
evening set	-10715 Jun 19 j 04:37	24°♈36'28	
conjunction	-10715 Jul 05 j 00:46	25°♈36'21	0°33'05
minimum elong	-10715 Jul 05 j 00:46	25°♈36'21	0°33'17
max. Earth dist.	-10715 Jul 04 j 17:03	25°♈35'08	19.41231 AU
morning rise	-10715 Jul 20 j 17:41	26°♈35'46	
retrograde	-10715 Oct 20 j 01:08	29°♈57'18	
opposition	-10714 Jan 02 j 20:19	27°♈55'45	0°39'36
min. Earth dist.	-10714 Jan 03 j 02:49	27°♈55'04	17.43858 AU
direct	-10714 Mar 21 j 01:55	25°♈51'01	
evening set	-10714 Jun 24 j 02:50	29°♈18'41	
	-10714 Jul 05 j 02:31	0°♉	
conjunction	-10714 Jul 09 j 21:41	0°♉18'15	0°37'59

Attention, astronomical year style is used: The year -10714 in astronomical counting style is the year 10715 BCE in historical counting style.

minimum elong	-10714 Jul 09 j 21:41	0°♉18'15	0°38'14	
max. Earth dist.	-10714 Jul 09 j 15:42	0°♉17'18	19.46609 AU	
morning rise	-10714 Jul 25 j 13:55	1°♉17'25		
retrograde	-10714 Oct 24 j 23:52	4°♉38'34		
opposition	-10713 Jan 07 j 23:49	2°♉37'09	0°44'55	
min. Earth dist.	-10713 Jan 08 j 03:22	2°♉36'47	17.49465 AU	
direct	-10713 Mar 26 j 04:57	0°♉32'52		
evening set	-10713 Jun 28 j 23:55	3°♉59'25		
conjunction	-10713 Jul 14 j 17:52	4°♉58'40	0°42'36	
minimum elong	-10713 Jul 14 j 17:52	4°♉58'40	0°42'54	
max. Earth dist.	-10713 Jul 14 j 15:40	4°♉58'19	19.52410 AU	
morning rise	-10713 Jul 30 j 09:11	5°♉57'33		
retrograde	-10713 Oct 29 j 22:05	9°♉18'16		
opposition	-10712 Jan 13 j 02:55	7°♉17'02	0°49'53	
min. Earth dist.	-10712 Jan 13 j 04:06	7°♉16'54	17.55436 AU	
direct	-10712 Mar 30 j 08:38	5°♉13'12		
evening set	-10712 Jul 02 j 20:22	8°♉38'34		
conjunction	-10712 Jul 18 j 13:10	9°♉37'29	0°46'55	
minimum elong	-10712 Jul 18 j 13:09	9°♉37'29	0°47'14	
max. Earth dist.	-10712 Jul 18 j 12:32	9°♉37'23	19.58540 AU	
morning rise	-10712 Aug 03 j 03:53	10°♉36'05		
retrograde	-10712 Nov 02 j 19:09	13°♉56'21		
opposition	-10711 Jan 17 j 05:24	11°♉55'14	0°54'30	
min. Earth dist.	-10711 Jan 17 j 04:12	11°♉55'22	17.61718 AU	
direct	-10711 Apr 04 j 10:04	9°♉51'51		
evening set	-10711 Jul 07 j 15:46	13°♉15'59		
conjunction	-10711 Jul 23 j 07:46	14°♉14'34	0°50'53	
minimum elong	-10711 Jul 23 j 07:46	14°♉14'34	0°51'16	
max. Earth dist.	-10711 Jul 23 j 10:31	14°♉15'00	19.64942 AU	
	-10711 Aug 04 j 10:07	15°♉		
morning rise	-10711 Aug 07 j 21:44	15°♉12'53		
retrograde	-10711 Nov 07 j 16:07	18°♉32'39		
opposition	-10710 Jan 22 j 07:27	16°♉31'40	0°58'44	
min. Earth dist.	-10710 Jan 22 j 03:34	16°♉32'04	17.68224 AU	
	-10710 Mar 04 j 17:22	15°℞♉		
direct	-10710 Apr 09 j 12:22	14°♉28'44		
	-10710 May 14 j 04:28	15°♉		
evening set	-10710 Jul 12 j 10:13	17°♉51'31		
conjunction	-10710 Jul 28 j 01:16	18°♉49'46	0°54'31	
minimum elong	-10710 Jul 28 j 01:15	18°♉49'46	0°54'55	
max. Earth dist.	-10710 Jul 28 j 05:42	18°♉50'28	19.71543 AU	
morning rise	-10710 Aug 12 j 14:50	19°♉47'49		
retrograde	-10710 Nov 12 j 11:43	23°♉07'03		
opposition	-10709 Jan 27 j 08:52	21°♉06'10	1°02'33	
min. Earth dist.	-10709 Jan 27 j 03:00	21°♉06'46	17.74922 AU	
direct	-10709 Apr 14 j 11:55	19°♉03'38		
evening set	-10709 Jul 17 j 03:38	22°♉25'04		
conjunction	-10709 Aug 01 j 18:05	23°♉23'00	0°57'46	
minimum elong	-10709 Aug 01 j 18:04	23°♉23'00	0°58'13	
max. Earth dist.	-10709 Aug 02 j 01:31	23°♉24'09	19.78312 AU	
morning rise	-10709 Aug 17 j 07:09	24°♉20'45		
retrograde	-10709 Nov 17 j 07:27	27°♉39'23		
opposition	-10708 Feb 01 j 09:13	25°♉38'36	1°05'56	
min. Earth dist.	-10708 Feb 01 j 00:28	25°♉39'30	17.81753 AU	
direct	-10708 Apr 18 j 11:59	23°♉36'27		
evening set	-10708 Jul 20 j 20:07	26°♉56'29		
conjunction	-10708 Aug 05 j 09:49	27°♉54'05	1°00'38	
minimum elong	-10708 Aug 05 j 09:49	27°♉54'05	1°01'06	
max. Earth dist.	-10708 Aug 05 j 19:06	27°♉55'32	19.85202 AU	
morning rise	-10708 Aug 20 j 22:40	28°♉51'35		
	-10708 Sep 09 j 15:58	0°♊		

retrograde	-10708 Nov 21 j 01:26	2°♊09'36		
opposition	-10707 Feb 05 j 09:02	0°♊08'51	1°08'53	
min. Earth dist.	-10707 Feb 04 j 22:39	0°♊09'56	17.88716 AU	
	-10707 Feb 08 j 23:03	30°℞♉		
direct	-10707 Apr 23 j 09:19	28°♉07'06		
	-10707 Jun 30 j 04:28	0°♊		
evening set	-10707 Jul 25 j 11:18	1°♊25'40		
conjunction	-10707 Aug 10 j 00:33	2°♊22'58	1°03'06	
minimum elong	-10707 Aug 10 j 00:33	2°♊22'58	1°03'36	
max. Earth dist.	-10707 Aug 10 j 12:41	2°♊24'50	19.92224 AU	
morning rise	-10707 Aug 25 j 13:06	3°♊20'11		
retrograde	-10707 Nov 25 j 20:18	6°♊37'33		
opposition	-10706 Feb 10 j 07:54	4°♊36'52	1°11'23	
min. Earth dist.	-10706 Feb 09 j 18:16	4°♊38'16	17.95796 AU	
direct	-10706 Apr 28 j 07:46	2°♊35'29		
evening set	-10706 Jul 30 j 01:40	5°♊52'35		
conjunction	-10706 Aug 14 j 14:23	6°♊49'34	1°05'10	
minimum elong	-10706 Aug 14 j 14:23	6°♊49'34	1°05'42	
max. Earth dist.	-10706 Aug 15 j 04:46	6°♊51'47	19.99362 AU	
morning rise	-10706 Aug 30 j 02:53	7°♊46'31		
retrograde	-10706 Nov 30 j 12:30	11°♊03'14		
opposition	-10705 Feb 15 j 05:53	9°♊02'35	1°13'26	
min. Earth dist.	-10705 Feb 14 j 14:48	9°♊04'08	18.03016 AU	
direct	-10705 May 03 j 02:56	7°♊01'34		
evening set	-10705 Aug 03 j 14:54	10°♊17'13		
conjunction	-10705 Aug 19 j 03:20	11°♊13'54	1°06'51	
minimum elong	-10705 Aug 19 j 03:20	11°♊13'54	1°07'23	
max. Earth dist.	-10705 Aug 19 j 20:16	11°♊16'30	20.06645 AU	
morning rise	-10705 Sep 03 j 15:46	12°♊10'35		
retrograde	-10705 Dec 05 j 06:39	15°♊26'38		
min. Earth dist.	-10704 Feb 19 j 08:20	13°♊27'56	18.10360 AU	
opposition	-10704 Feb 20 j 02:47	13°♊26'03	1°15'03	
direct	-10704 May 06 j 23:24	11°♊25'25		
evening set	-10704 Aug 07 j 03:17	14°♊39'38		
conjunction	-10704 Aug 22 j 15:23	15°♊36'01	1°08'07	
minimum elong	-10704 Aug 22 j 15:23	15°♊36'01	1°08'41	
max. Earth dist.	-10704 Aug 23 j 10:41	15°♊38'58	20.14037 AU	
morning rise	-10704 Sep 07 j 03:52	16°♊32'28		
retrograde	-10704 Dec 08 j 20:53	19°♊47'51		
opposition	-10703 Feb 23 j 22:55	17°♊47'20	1°16'13	
min. Earth dist.	-10703 Feb 23 j 03:12	17°♊49'21	18.17822 AU	
direct	-10703 May 11 j 16:39	15°♊47'07		
evening set	-10703 Aug 11 j 14:43	18°♊59'55		
conjunction	-10703 Aug 27 j 02:42	19°♊56'02	1°09'00	
minimum elong	-10703 Aug 27 j 02:42	19°♊56'02	1°09'34	
max. Earth dist.	-10703 Aug 28 j 00:11	19°♊59'18	20.21549 AU	
morning rise	-10703 Sep 11 j 15:20	20°♊52'14		
retrograde	-10703 Dec 13 j 13:54	24°♊06'58		
opposition	-10702 Feb 28 j 18:03	22°♊06'34	1°16'56	
min. Earth dist.	-10702 Feb 27 j 19:05	22°♊08'55	18.25368 AU	
direct	-10702 May 16 j 11:17	20°♊06'46		
evening set	-10702 Aug 16 j 01:17	23°♊18'12		
conjunction	-10702 Aug 31 j 13:14	24°♊14'03	1°09'29	
minimum elong	-10702 Aug 31 j 13:14	24°♊14'03	1°10'05	
max. Earth dist.	-10702 Sep 01 j 13:04	24°♊17'39	20.29105 AU	
morning rise	-10702 Sep 16 j 02:09	25°♊10'02		
retrograde	-10702 Dec 18 j 03:00	28°♊24'08		
opposition	-10701 Mar 05 j 12:28	26°♊23'52	1°17'14	
min. Earth dist.	-10701 Mar 04 j 12:38	26°♊26'17	18.32934 AU	
direct	-10701 May 21 j 02:22	24°♊24'30		
evening set	-10701 Aug 20 j 11:11	27°♊34'35		

Attention, astronomical year style is used: The year -10701 in astronomical counting style is the year 10702 BCE in historical counting style.

conjunction	-10701 Sep 04 j 23:10	28°♊30'10	1°09'35	
minimum elong	-10701 Sep 04 j 23:10	28°♊30'10	1°10'10	
max. Earth dist.	-10701 Sep 06 j 00:35	28°♊34'00	20.36655 AU	
morning rise	-10701 Sep 20 j 12:26	29°♊25'57		
	-10701 Sep 30 j 09:02	0°♋		
retrograde	-10701 Dec 22 j 18:11	2°♋39'25		
min. Earth dist.	-10700 Mar 08 j 03:07	0°♋41'58	18.40446 AU	
opposition	-10700 Mar 09 j 05:39	0°♋39'17	1°17'05	
	-10700 Mar 25 j 17:24	30°℞♊		
direct	-10700 May 24 j 19:07	28°♊40'20		
	-10700 Jul 20 j 06:52	0°♋		
evening set	-10700 Aug 23 j 20:21	1°♋49'08		
conjunction	-10700 Sep 08 j 08:27	2°♋44'29	1°09'18	
minimum elong	-10700 Sep 08 j 08:27	2°♋44'29	1°09'53	
max. Earth dist.	-10700 Sep 09 j 11:57	2°♋48'37	20.44102 AU	
morning rise	-10700 Sep 23 j 22:07	3°♋40'05		
retrograde	-10700 Dec 26 j 06:10	6°♋52'56		
opposition	-10699 Mar 13 j 22:21	4°♋52'56	1°16'32	
min. Earth dist.	-10699 Mar 12 j 19:24	4°♋55'39	18.47827 AU	
direct	-10699 May 29 j 08:24	2°♋54'24		
evening set	-10699 Aug 28 j 04:46	6°♋01'56		
conjunction	-10699 Sep 12 j 17:04	6°♋57'04	1°08'38	
minimum elong	-10699 Sep 12 j 17:04	6°♋57'04	1°09'14	
max. Earth dist.	-10699 Sep 13 j 21:39	7°♋01'20	20.51391 AU	
morning rise	-10699 Sep 28 j 07:16	7°♋52'28		
retrograde	-10699 Dec 30 j 20:03	11°♋04'44		
min. Earth dist.	-10698 Mar 17 j 08:53	9°♋07'48	18.55004 AU	
opposition	-10698 Mar 18 j 14:04	9°♋04'52	1°15'33	
direct	-10698 Jun 02 j 23:01	7°♋06'42		
evening set	-10698 Sep 01 j 12:43	10°♋13'01		
conjunction	-10698 Sep 17 j 01:21	11°♋07'57	1°07'36	
minimum elong	-10698 Sep 17 j 01:22	11°♋07'57	1°08'11	
max. Earth dist.	-10698 Sep 18 j 07:38	11°♋12'27	20.58423 AU	
morning rise	-10698 Oct 02 j 16:06	12°♋03'11		
retrograde	-10697 Jan 04 j 07:01	15°♋14'51		
min. Earth dist.	-10697 Mar 21 j 23:48	13°♋18'01	18.61897 AU	
opposition	-10697 Mar 23 j 04:55	13°♋15'06	1°14'11	
direct	-10697 Jun 07 j 10:50	11°♋17'17		
evening set	-10697 Sep 05 j 20:06	14°♋22'26		
conjunction	-10697 Sep 21 j 09:07	15°♋17'11	1°06'13	
minimum elong	-10697 Sep 21 j 09:07	15°♋17'11	1°06'49	
max. Earth dist.	-10697 Sep 22 j 15:44	15°♋21'42	20.65152 AU	
morning rise	-10697 Oct 07 j 00:33	16°♋12'16		
retrograde	-10696 Jan 08 j 19:24	19°♋23'20		
opposition	-10696 Mar 26 j 18:53	17°♋23'40	1°12'26	
min. Earth dist.	-10696 Mar 25 j 12:03	17°♋26'46	18.68446 AU	
direct	-10696 Jun 10 j 23:16	15°♋26'10		
evening set	-10696 Sep 09 j 02:47	18°♋30'11		
conjunction	-10696 Sep 24 j 16:17	19°♋24'46	1°04'30	
minimum elong	-10696 Sep 24 j 16:17	19°♋24'46	1°05'05	
max. Earth dist.	-10696 Sep 26 j 00:16	19°♋29'28	20.71498 AU	
morning rise	-10696 Oct 10 j 08:23	20°♋19'43		
retrograde	-10695 Jan 12 j 05:20	23°♋30'13		
min. Earth dist.	-10695 Mar 30 j 01:33	21°♋33'40	18.74600 AU	
opposition	-10695 Mar 31 j 08:10	21°♋30'36	1°10'20	
direct	-10695 Jun 15 j 09:48	19°♋33'22		
evening set	-10695 Sep 13 j 09:01	22°♋36'18		
conjunction	-10695 Sep 28 j 23:03	23°♋30'44	1°02'28	
minimum elong	-10695 Sep 28 j 23:03	23°♋30'44	1°03'03	
max. Earth dist.	-10695 Sep 30 j 07:03	23°♋35'26	20.77463 AU	
morning rise	-10695 Oct 14 j 16:00	24°♋25'34		
retrograde	-10694 Jan 16 j 16:15	27°♋35'30		
opposition	-10694 Apr 04 j 20:26	25°♋35'55	1°07'53	
min. Earth dist.	-10694 Apr 03 j 12:29	25°♋39'07	18.80365 AU	
direct	-10694 Jun 19 j 20:24	23°♋38'54		
evening set	-10694 Sep 17 j 14:38	26°♋40'49		
conjunction	-10694 Oct 03 j 05:22	27°♋35'06	1°00'08	
minimum elong	-10694 Oct 03 j 05:22	27°♋35'07	1°00'41	
max. Earth dist.	-10694 Oct 04 j 14:35	27°♋39'57	20.83020 AU	
morning rise	-10694 Oct 18 j 23:08	28°♋29'50		
	-10694 Nov 16 j 12:05	0°♌		
retrograde	-10693 Jan 21 j 00:56	1°♌39'13		
	-10693 Mar 31 j 19:46	30°℞♋		
min. Earth dist.	-10693 Apr 08 j 00:22	29°♋42'49	18.85728 AU	
opposition	-10693 Apr 09 j 07:56	29°♋39'39	1°05'07	
direct	-10693 Jun 24 j 05:19	27°♋42'50		
	-10693 Sep 08 j 14:00	0°♌		
evening set	-10693 Sep 21 j 19:51	0°♌43'47		
conjunction	-10693 Oct 07 j 11:12	1°♌37'57	0°57'31	
minimum elong	-10693 Oct 07 j 11:12	1°♌37'57	0°58'02	
max. Earth dist.	-10693 Oct 08 j 20:16	1°♌42'46	20.88203 AU	
morning rise	-10693 Oct 23 j 05:55	2°♌32'35		
retrograde	-10692 Jan 25 j 10:42	5°♌41'27		
min. Earth dist.	-10692 Apr 11 j 09:45	3°♌45'09	18.90732 AU	
opposition	-10692 Apr 12 j 18:23	3°♌41'53	1°02'03	
direct	-10692 Jun 27 j 14:07	1°♌45'14		
evening set	-10692 Sep 25 j 00:34	4°♌45'18		
conjunction	-10692 Oct 10 j 16:42	5°♌39'22	0°54'38	
minimum elong	-10692 Oct 10 j 16:42	5°♌39'22	0°55'09	
max. Earth dist.	-10692 Oct 12 j 03:01	5°♌44'20	20.93029 AU	
morning rise	-10692 Oct 26 j 12:16	6°♌33'56		
retrograde	-10691 Jan 28 j 18:04	9°♌42'19		
min. Earth dist.	-10691 Apr 15 j 19:59	7°♌46'00	18.95395 AU	
opposition	-10691 Apr 17 j 04:16	7°♌42'46	0°58'42	
direct	-10691 Jul 01 j 21:11	5°♌46'17		
evening set	-10691 Sep 29 j 04:53	8°♌45'32		
conjunction	-10691 Oct 14 j 21:46	9°♌39'31	0°51'30	
minimum elong	-10691 Oct 14 j 21:47	9°♌39'31	0°51'59	
max. Earth dist.	-10691 Oct 16 j 07:50	9°♌44'26	20.97540 AU	
morning rise	-10691 Oct 30 j 18:25	10°♌34'01		
retrograde	-10690 Feb 02 j 03:32	13°♌41'59		
min. Earth dist.	-10690 Apr 20 j 04:15	11°♌45'45	18.99747 AU	
opposition	-10690 Apr 21 j 13:22	11°♌42'27	0°55'06	
direct	-10690 Jul 06 j 04:16	9°♌46'07		
evening set	-10690 Oct 03 j 09:02	12°♌44'39		
conjunction	-10690 Oct 19 j 02:50	13°♌38'35	0°48'08	
minimum elong	-10690 Oct 19 j 02:51	13°♌38'35	0°48'37	
max. Earth dist.	-10690 Oct 20 j 13:55	13°♌43'38	21.01720 AU	
morning rise	-10690 Nov 04 j 00:25	14°♌33'03		
	-10690 Nov 12 j 03:44	15°♌		
retrograde	-10689 Feb 06 j 10:09	17°♌40'37		
opposition	-10689 Apr 25 j 21:42	15°♌41'08	0°51'14	
min. Earth dist.	-10689 Apr 24 j 13:11	15°♌44'23	19.03759 AU	
	-10689 May 13 j 09:30	15°℞♌		
direct	-10689 Jul 10 j 09:57	13°♌44'58		
	-10689 Sep 03 j 12:56	15°♌		
evening set	-10689 Oct 07 j 12:59	16°♌42'52		
conjunction	-10689 Oct 23 j 07:38	17°♌36'46	0°44'34	
minimum elong	-10689 Oct 23 j 07:39	17°♌36'46	0°45'00	
max. Earth dist.	-10689 Oct 24 j 18:04	17°♌41'42	21.05572 AU	
morning rise	-10689 Nov 08 j 06:21	18°♌31'12		
retrograde	-10688 Feb 10 j 19:07	21°♌38'26		

Attention, astronomical year style is used: The year -10688 in astronomical counting style is the year 10689 BCE in historical counting style.

min. Earth dist.	-10688 Apr 27 j 20:35	19°♌42'17	19.07429 AU
opposition	-10688 Apr 29 j 05:32	19°♌39'00	0°47'09
direct	-10688 Jul 13 j 15:12	17°♌43'00	
evening set	-10688 Oct 10 j 16:37	20°♌40'21	
conjunction	-10688 Oct 26 j 12:15	21°♌34'13	0°40'47
minimum elong	-10688 Oct 26 j 12:16	21°♌34'13	0°41'12
max. Earth dist.	-10688 Oct 27 j 23:26	21°♌39'15	21.09045 AU
morning rise	-10688 Nov 11 j 11:57	22°♌28'39	
retrograde	-10687 Feb 14 j 01:45	25°♌35'36	
min. Earth dist.	-10687 May 02 j 04:49	23°♌39'27	19.10697 AU
opposition	-10687 May 03 j 12:56	23°♌36'14	0°42'51
direct	-10687 Jul 17 j 20:19	21°♌40'24	
evening set	-10687 Oct 14 j 20:26	24°♌37'16	
conjunction	-10687 Oct 30 j 17:01	25°♌31'08	0°36'48
minimum elong	-10687 Oct 30 j 17:01	25°♌31'08	0°37'12
max. Earth dist.	-10687 Nov 01 j 03:06	25°♌35'59	21.12117 AU
morning rise	-10687 Nov 15 j 17:54	26°♌25'35	
retrograde	-10686 Feb 18 j 10:28	29°♌32'16	
min. Earth dist.	-10686 May 06 j 11:45	27°♌36'10	19.13542 AU
opposition	-10686 May 07 j 19:43	27°♌32'58	0°38'21
direct	-10686 Jul 22 j 00:15	25°♌37'16	
evening set	-10686 Oct 19 j 00:17	28°♌33'46	
conjunction	-10686 Nov 03 j 21:56	29°♌27'38	0°32'40
minimum elong	-10686 Nov 03 j 21:57	29°♌27'38	0°33'01
max. Earth dist.	-10686 Nov 05 j 08:11	29°♌32'30	21.14715 AU
	-10686 Nov 13 j 09:52	0°♍	
morning rise	-10686 Nov 19 j 23:50	0°♍22'06	
retrograde	-10685 Feb 22 j 17:03	3°♍28'35	
min. Earth dist.	-10685 May 10 j 19:29	1°♍32'25	19.15881 AU
opposition	-10685 May 12 j 02:08	1°♍29'21	0°33'41
	-10685 Jun 23 j 11:39	30°℞♌	
direct	-10685 Jul 26 j 04:55	29°♌33'46	
	-10685 Aug 27 j 05:58	0°♍	
evening set	-10685 Oct 23 j 04:17	2°♍29'56	
conjunction	-10685 Nov 08 j 02:52	3°♍23'50	0°28'23
minimum elong	-10685 Nov 08 j 02:53	3°♍23'50	0°28'42
max. Earth dist.	-10685 Nov 09 j 11:25	3°♍28'28	21.16798 AU
morning rise	-10685 Nov 24 j 05:55	4°♍18'21	
retrograde	-10684 Feb 27 j 01:47	7°♍24'39	
min. Earth dist.	-10684 May 14 j 02:09	5°♍28'28	19.17683 AU
opposition	-10684 May 15 j 08:10	5°♍25'27	0°28'52
direct	-10684 Jul 29 j 08:42	3°♍29'55	
evening set	-10684 Oct 26 j 08:24	6°♍25'52	
conjunction	-10684 Nov 11 j 08:06	7°♍19'49	0°23'57
minimum elong	-10684 Nov 11 j 08:06	7°♍19'49	0°24'14
max. Earth dist.	-10684 Nov 12 j 16:19	7°♍24'23	21.18305 AU
morning rise	-10684 Nov 27 j 12:10	8°♍14'23	
retrograde	-10683 Mar 02 j 08:06	11°♍20'32	
min. Earth dist.	-10683 May 18 j 09:30	9°♍24'12	19.18886 AU
opposition	-10683 May 19 j 13:55	9°♍21'21	0°23'54
direct	-10683 Aug 02 j 12:32	7°♍25'50	
evening set	-10683 Oct 30 j 12:42	10°♍21'36	
conjunction	-10683 Nov 15 j 13:27	11°♍15'37	0°19'26
minimum elong	-10683 Nov 15 j 13:27	11°♍15'37	0°19'41
max. Earth dist.	-10683 Nov 16 j 19:30	11°♍19'52	21.19215 AU
morning rise	-10683 Dec 01 j 18:45	12°♍10'15	
retrograde	-10682 Mar 06 j 16:49	15°♍16'17	
opposition	-10682 May 23 j 19:23	13°♍17'04	0°18'51
min. Earth dist.	-10682 May 22 j 16:03	13°♍19'49	19.19478 AU
direct	-10682 Aug 06 j 16:47	11°♍21'30	
evening set	-10682 Nov 03 j 17:15	14°♍17'10	

conjunction	-10682 Nov 19 j 19:10	15°♍11'16	0°14'49
minimum elong	-10682 Nov 19 j 19:10	15°♍11'16	0°15'01
behind sun begin	-10682 Nov 19 j 16:49	15°♍10'57	
behind sun end	-10682 Nov 19 j 21:32	15°♍11'36	
max. Earth dist.	-10682 Nov 21 j 00:31	15°♍15'25	21.19489 AU
morning rise	-10682 Dec 06 j 01:27	16°♍05'59	
retrograde	-10681 Mar 10 j 22:49	19°♍11'54	
min. Earth dist.	-10681 May 26 j 22:53	17°♍15'13	19.19436 AU
opposition	-10681 May 28 j 00:25	17°♍12'38	0°13'42
direct	-10681 Aug 10 j 19:56	15°♍16'59	
evening set	-10681 Nov 07 j 21:58	18°♍12'37	
conjunction	-10681 Nov 24 j 00:55	19°♍06'48	0°10'09
minimum elong	-10681 Nov 24 j 00:55	19°♍06'48	0°10'19
behind sun begin	-10681 Nov 23 j 19:41	19°♍06'05	
behind sun end	-10681 Nov 24 j 06:10	19°♍07'31	
max. Earth dist.	-10681 Nov 25 j 03:57	19°♍10'37	21.19169 AU
morning rise	-10681 Dec 10 j 08:24	20°♍01'37	
retrograde	-10680 Mar 14 j 06:48	23°♍07'28	
min. Earth dist.	-10680 May 30 j 05:00	21°♍10'33	19.18825 AU
opposition	-10680 May 31 j 05:17	21°♍08'06	0°08'30
direct	-10680 Aug 14 j 00:15	19°♍12'19	
evening set	-10680 Nov 11 j 02:43	22°♍07'59	
conjunction	-10680 Nov 27 j 06:51	23°♍02'17	0°05'27
minimum elong	-10680 Nov 27 j 06:51	23°♍02'17	0°05'35
behind sun begin	-10680 Nov 27 j 00:26	23°♍01'24	
behind sun end	-10680 Nov 27 j 13:15	23°♍03'10	
max. Earth dist.	-10680 Nov 28 j 09:17	23°♍06'00	21.18282 AU
morning rise	-10680 Dec 13 j 15:18	23°♍57'12	
retrograde	-10679 Mar 18 j 13:01	27°♍03'02	
min. Earth dist.	-10679 Jun 03 j 11:23	25°♍05'51	19.17673 AU
opposition	-10679 Jun 04 j 09:57	25°♍03'33	0°03'16
direct	-10679 Aug 18 j 03:27	23°♍07'37	
evening set	-10679 Nov 15 j 07:59	26°♍03'24	
conjunction	-10679 Dec 01 j 13:09	26°♍57'49	0°00'40
minimum elong	-10679 Dec 01 j 13:09	26°♍57'49	0°00'45
behind sun begin	-10679 Dec 01 j 06:30	26°♍56'55	
behind sun end	-10679 Dec 01 j 19:49	26°♍58'44	
max. Earth dist.	-10679 Dec 02 j 13:14	27°♍01'13	21.16900 AU
morning rise	-10679 Dec 17 j 22:47	27°♍52'52	
desc. node	-10678 Jan 21 j 20:15	29°♍36'57	
	-10678 Jan 31 j 11:34	0°♎	
retrograde	-10678 Mar 22 j 20:34	0°♎58'43	
	-10678 May 13 j 07:38	30°℞♍	
opposition	-10678 Jun 08 j 14:17	28°♍59'08	-0°01'59
min. Earth dist.	-10678 Jun 07 j 17:05	29°♍01'17	19.16057 AU
direct	-10678 Aug 22 j 07:08	27°♍03'00	
evening set	-10678 Nov 19 j 13:35	29°♍59'00	
	-10678 Nov 19 j 20:49	0°♎	
conjunction	-10678 Dec 05 j 19:54	0°♎53'35	-0°04'11
minimum elong	-10678 Dec 05 j 19:55	0°♎53'35	0°04'08
behind sun begin	-10678 Dec 05 j 13:20	0°♎52'41	
behind sun end	-10678 Dec 06 j 02:30	0°♎54'29	
max. Earth dist.	-10678 Dec 06 j 19:16	0°♎56'52	21.15055 AU
morning rise	-10678 Dec 22 j 06:26	1°♎48'45	
retrograde	-10677 Mar 27 j 03:25	4°♎54'40	
opposition	-10677 Jun 12 j 18:37	2°♎55'00	-0°07'13
min. Earth dist.	-10677 Jun 11 j 23:07	2°♎56'59	19.13996 AU
direct	-10677 Aug 26 j 10:38	0°♎58'42	
evening set	-10677 Nov 23 j 19:31	3°♎55'01	
conjunction	-10677 Dec 10 j 02:49	4°♎49'44	-0°08'54
minimum elong	-10677 Dec 10 j 02:49	4°♎49'44	0°08'54
behind sun begin	-10677 Dec 09 j 21:06	4°♎48'57	

Attention, astronomical year style is used: The year -10677 in astronomical counting style is the year 10678 BCE in historical counting style.

behind sun end	-10677 Dec 10 j 08:32	4°♎50'31		
max. Earth dist.	-10677 Dec 10 j 23:39	4°♎52'40	21.12800 AU	
morning rise	-10677 Dec 26 j 14:24	5°♎45'04		
retrograde	-10676 Mar 30 j 11:08	8°♎51'08		
opposition	-10676 Jun 15 j 22:57	6°♎51'22	-0°12'27	
min. Earth dist.	-10676 Jun 15 j 04:49	6°♎53'13	19.11544 AU	
direct	-10676 Aug 29 j 13:40	4°♎54'53		
evening set	-10676 Nov 27 j 01:57	7°♎51'36		
conjunction	-10676 Dec 13 j 10:24	8°♎46'31	-0°13'36	
minimum elong	-10676 Dec 13 j 10:24	8°♎46'31	0°13'37	
behind sun begin	-10676 Dec 13 j 06:50	8°♎46'01		
behind sun end	-10676 Dec 13 j 13:57	8°♎47'00		
max. Earth dist.	-10676 Dec 14 j 06:22	8°♎49'19	21.10150 AU	
morning rise	-10676 Dec 29 j 22:48	9°♎42'00		
retrograde	-10675 Apr 03 j 18:45	12°♎48'15		
min. Earth dist.	-10675 Jun 19 j 10:53	10°♎50'07	19.08698 AU	
opposition	-10675 Jun 20 j 03:15	10°♎48'26	-0°17'38	
direct	-10675 Sep 02 j 17:35	8°♎51'47		
evening set	-10675 Dec 01 j 09:03	11°♎49'00		
conjunction	-10675 Dec 17 j 18:28	12°♎44'06	-0°18'15	
minimum elong	-10675 Dec 17 j 18:28	12°♎44'06	0°18'20	
max. Earth dist.	-10675 Dec 18 j 11:36	12°♎46'30	21.07125 AU	
morning rise	-10674 Jan 03 j 07:56	13°♎39'45		
retrograde	-10674 Apr 08 j 03:23	16°♎46'16		
opposition	-10674 Jun 24 j 07:46	14°♎46'24	-0°22'45	
min. Earth dist.	-10674 Jun 23 j 17:05	14°♎47'54	19.05473 AU	
direct	-10674 Sep 06 j 20:58	12°♎49'33		
evening set	-10674 Dec 05 j 16:46	15°♎47'22		
conjunction	-10674 Dec 22 j 03:17	16°♎42'41	-0°22'51	
minimum elong	-10674 Dec 22 j 03:17	16°♎42'41	0°22'58	
max. Earth dist.	-10674 Dec 22 j 19:15	16°♎44'56	21.03693 AU	
morning rise	-10673 Jan 07 j 17:26	17°♎38'32		
retrograde	-10673 Apr 12 j 11:38	20°♎45'19		
opposition	-10673 Jun 28 j 12:19	18°♎45'26	-0°27'48	
min. Earth dist.	-10673 Jun 27 j 23:38	18°♎46'45	19.01832 AU	
direct	-10673 Sep 11 j 01:09	16°♎48'25		
evening set	-10673 Dec 10 j 01:15	19°♎46'54		
conjunction	-10673 Dec 26 j 12:38	20°♎42'26	-0°27'21	
minimum elong	-10673 Dec 26 j 12:38	20°♎42'26	0°27'31	
max. Earth dist.	-10673 Dec 27 j 01:24	20°♎44'14	20.99857 AU	
morning rise	-10672 Jan 12 j 03:43	21°♎38'29		
retrograde	-10672 Apr 15 j 21:26	24°♎45'37		
opposition	-10672 Jul 01 j 17:15	22°♎45'42	-0°32'44	
min. Earth dist.	-10672 Jul 01 j 06:35	22°♎46'48	18.97780 AU	
direct	-10672 Sep 14 j 05:42	20°♎48'27		
evening set	-10672 Dec 13 j 10:21	23°♎47'43		
conjunction	-10672 Dec 29 j 22:47	24°♎43'29	-0°31'45	
minimum elong	-10672 Dec 29 j 22:47	24°♎43'29	0°31'58	
max. Earth dist.	-10672 Dec 30 j 10:08	24°♎45'05	20.95573 AU	
morning rise	-10671 Jan 15 j 14:29	25°♎39'44		
retrograde	-10671 Apr 20 j 06:15	28°♎47'15		
opposition	-10671 Jul 05 j 22:28	26°♎47'19	-0°37'32	
min. Earth dist.	-10671 Jul 05 j 14:03	26°♎48'11	18.93257 AU	
direct	-10671 Sep 18 j 10:21	24°♎49'49		
evening set	-10671 Dec 17 j 20:32	27°♎49'55		
conjunction	-10670 Jan 03 j 09:47	28°♎45'55	-0°36'01	
minimum elong	-10670 Jan 03 j 09:46	28°♎45'55	0°36'15	
max. Earth dist.	-10670 Jan 03 j 17:24	28°♎47'00	20.90818 AU	
morning rise	-10670 Jan 20 j 02:19	29°♎42'23		
	-10670 Jan 25 j 10:40	0°♏		
retrograde	-10670 Apr 24 j 17:04	2°♏50'19		
opposition	-10670 Jul 10 j 03:58	0°♏50'18	-0°42'11	
min. Earth dist.	-10670 Jul 09 j 22:02	0°♏50'55	18.88256 AU	
	-10670 Jul 31 j 01:47	30°℞♎		
direct	-10670 Sep 22 j 16:34	28°♎52'31		
	-10670 Nov 13 j 22:37	0°♏		
evening set	-10670 Dec 22 j 07:28	1°♏53'30		
conjunction	-10669 Jan 07 j 21:42	2°♏49'47	-0°40'07	
minimum elong	-10669 Jan 07 j 21:41	2°♏49'46	0°40'24	
max. Earth dist.	-10669 Jan 08 j 03:31	2°♏50'36	20.85557 AU	
morning rise	-10669 Jan 24 j 14:40	3°♏46'28		
retrograde	-10669 Apr 29 j 02:20	6°♏54'48		
opposition	-10669 Jul 14 j 09:59	4°♏54'43	-0°46'38	
min. Earth dist.	-10669 Jul 14 j 06:21	4°♏55'05	18.82743 AU	
direct	-10669 Sep 26 j 22:33	2°♏56'36		
evening set	-10669 Dec 26 j 19:06	5°♏58'31		
conjunction	-10668 Jan 12 j 10:00	6°♏55'03	-0°44'03	
minimum elong	-10668 Jan 12 j 09:59	6°♏55'03	0°44'20	
max. Earth dist.	-10668 Jan 12 j 11:56	6°♏55'19	20.79811 AU	
morning rise	-10668 Jan 29 j 03:42	7°♏51'58		
retrograde	-10668 May 02 j 13:26	11°♏00'46		
opposition	-10668 Jul 17 j 16:25	9°♏00'32	-0°50'52	
min. Earth dist.	-10668 Jul 17 j 15:19	9°♏00'39	18.76767 AU	
direct	-10668 Sep 30 j 06:06	7°♏02'01		
evening set	-10668 Dec 30 j 07:33	10°♏04'57		
conjunction	-10667 Jan 15 j 23:23	11°♏01'46	-0°47'45	
minimum elong	-10667 Jan 15 j 23:23	11°♏01'45	0°48'06	
max. Earth dist.	-10667 Jan 15 j 23:35	11°♏01'47	20.73611 AU	
morning rise	-10667 Feb 01 j 17:26	11°♏58'55		
	-10667 Apr 19 j 00:16	15°♏		
retrograde	-10667 May 06 j 23:47	15°♏08'09		
	-10667 May 25 j 00:50	15°℞♏		
opposition	-10667 Jul 21 j 23:06	13°♏07'46	-0°54'52	
min. Earth dist.	-10667 Jul 22 j 00:14	13°♏07'39	18.70361 AU	
direct	-10667 Oct 04 j 13:47	11°♏08'50		
evening set	-10666 Jan 03 j 20:59	14°♏12'50		
	-10666 Jan 17 j 16:32	15°♏		
conjunction	-10666 Jan 20 j 13:24	15°♏09'54	-0°51'14	
minimum elong	-10666 Jan 20 j 13:24	15°♏09'54	0°51'37	
max. Earth dist.	-10666 Jan 20 j 09:41	15°♏09'22	20.67030 AU	
morning rise	-10666 Feb 06 j 08:04	16°♏07'18		
retrograde	-10666 May 11 j 11:10	19°♏17'02		
opposition	-10666 Jul 26 j 06:22	17°♏16'28	-0°58'36	
min. Earth dist.	-10666 Jul 26 j 10:03	17°♏16'05	18.63622 AU	
direct	-10666 Oct 08 j 22:13	15°♏17'04		
evening set	-10665 Jan 08 j 11:03	18°♏22'11		
conjunction	-10665 Jan 25 j 04:15	19°♏19'33	-0°54'28	
minimum elong	-10665 Jan 25 j 04:15	19°♏19'33	0°54'53	
max. Earth dist.	-10665 Jan 24 j 23:03	19°♏18'48	20.60136 AU	
morning rise	-10665 Feb 10 j 23:04	20°♏17'11		
retrograde	-10665 May 15 j 23:01	23°♏27'24		
opposition	-10665 Jul 30 j 14:02	21°♏26'41	-1°02'04	
min. Earth dist.	-10665 Jul 30 j 19:35	21°♏26'05	18.56606 AU	
direct	-10665 Oct 13 j 07:30	19°♏26'49		
evening set	-10664 Jan 13 j 02:05	22°♏33'07		
conjunction	-10664 Jan 29 j 19:43	23°♏30'45	-0°57'25	
minimum elong	-10664 Jan 29 j 19:42	23°♏30'45	0°57'53	
max. Earth dist.	-10664 Jan 29 j 10:49	23°♏29'28	20.53023 AU	
morning rise	-10664 Feb 15 j 14:58	24°♏28'39		
retrograde	-10664 May 19 j 11:15	27°♏39'25		
opposition	-10664 Aug 02 j 22:18	25°♏38'30	-1°05'13	
min. Earth dist.	-10664 Aug 03 j 06:17	25°♏37'40	18.49421 AU	

Attention, astronomical year style is used: The year -10664 in astronomical counting style is the year 10665 BCE in historical counting style.

direct	-10664 Oct 16 j 16:44	23°♏38'09	
evening set	-10663 Jan 16 j 17:48	26°♏45'42	
conjunction	-10663 Feb 02 j 12:09	27°♏43'39	-1°00'06
minimum elong	-10663 Feb 02 j 12:09	27°♏43'39	1°00'34
max. Earth dist.	-10663 Feb 02 j 02:00	27°♏42'10	20.45760 AU
morning rise	-10663 Feb 19 j 07:28	28°♏41'47	
	-10663 Mar 15 j 17:10	0°♐	
retrograde	-10663 May 24 j 00:52	1°♐53'06	
	-10663 Aug 04 j 04:19	30°℞♏	
opposition	-10663 Aug 07 j 07:13	29°♏52'03	-1°08'02
min. Earth dist.	-10663 Aug 07 j 16:44	29°♏51'03	18.42102 AU
direct	-10663 Oct 21 j 03:27	27°♏51'15	
	-10662 Jan 03 j 01:35	0°♐	
evening set	-10662 Jan 21 j 10:44	1°♐00'06	
conjunction	-10662 Feb 07 j 05:22	1°♐58'20	-1°02'28
minimum elong	-10662 Feb 07 j 05:21	1°♐58'20	1°02'58
max. Earth dist.	-10662 Feb 06 j 15:36	1°♐56'20	20.38402 AU
morning rise	-10662 Feb 24 j 00:56	2°♐56'44	
retrograde	-10662 May 28 j 14:35	6°♐08'39	
opposition	-10662 Aug 11 j 16:48	4°♐07'28	-1°10'31
min. Earth dist.	-10662 Aug 12 j 04:44	4°♐06'12	18.34729 AU
direct	-10662 Oct 25 j 13:59	2°♐06'13	
evening set	-10661 Jan 26 j 04:25	5°♐16'25	
conjunction	-10661 Feb 11 j 23:35	6°♐14'58	-1°04'31
minimum elong	-10661 Feb 11 j 23:35	6°♐14'58	1°05'02
max. Earth dist.	-10661 Feb 11 j 08:41	6°♐12'47	20.31005 AU
morning rise	-10661 Feb 28 j 19:02	7°♐13'37	
retrograde	-10661 Jun 02 j 05:59	10°♐26'09	
opposition	-10661 Aug 16 j 03:10	8°♐24'53	-1°12'37
min. Earth dist.	-10661 Aug 16 j 16:20	8°♐23'29	18.27326 AU
direct	-10661 Oct 30 j 02:05	6°♐23'14	
evening set	-10660 Jan 30 j 23:02	9°♐34'49	
conjunction	-10660 Feb 16 j 18:21	10°♐33'40	-1°06'13
minimum elong	-10660 Feb 16 j 18:21	10°♐33'40	1°06'46
max. Earth dist.	-10660 Feb 16 j 00:05	10°♐30'58	20.23603 AU
morning rise	-10660 Mar 04 j 13:55	11°♐32'34	
retrograde	-10660 Jun 05 j 21:22	14°♐45'47	
opposition	-10660 Aug 19 j 14:23	12°♐44'26	-1°14'20
min. Earth dist.	-10660 Aug 20 j 06:02	12°♐42'45	18.19938 AU
direct	-10660 Nov 02 j 14:08	10°♐42'21	
evening set	-10659 Feb 03 j 18:43	13°♐55'24	
conjunction	-10659 Feb 20 j 14:26	14°♐54'34	-1°07'33
minimum elong	-10659 Feb 20 j 14:26	14°♐54'33	1°08'07
max. Earth dist.	-10659 Feb 19 j 19:00	14°♐51'41	20.16214 AU
morning rise	-10659 Mar 09 j 09:45	15°♐53'43	
retrograde	-10659 Jun 10 j 14:37	19°♐07'36	
opposition	-10659 Aug 24 j 02:15	17°♐06'13	-1°15'39
min. Earth dist.	-10659 Aug 24 j 19:10	17°♐04'23	18.12551 AU
direct	-10659 Nov 07 j 04:13	15°♐03'45	
evening set	-10658 Feb 08 j 15:39	18°♐18'17	
conjunction	-10658 Feb 25 j 11:21	19°♐17'44	-1°08'30
minimum elong	-10658 Feb 25 j 11:21	19°♐17'44	1°09'05
max. Earth dist.	-10658 Feb 24 j 12:33	19°♐14'21	20.08826 AU
morning rise	-10658 Mar 14 j 06:33	20°♐17'09	
retrograde	-10658 Jun 15 j 07:28	23°♐31'43	
opposition	-10658 Aug 28 j 15:16	21°♐30'17	-1°16'31
min. Earth dist.	-10658 Aug 29 j 10:53	21°♐28'10	18.05177 AU
direct	-10658 Nov 11 j 17:52	19°♐27'26	
evening set	-10657 Feb 13 j 13:17	22°♐43'28	
max. Earth dist.	-10657 Mar 01 j 09:04	23°♐39'37	20.01444 AU
conjunction	-10657 Mar 02 j 09:09	23°♐43'13	-1°09'03
minimum elong	-10657 Mar 02 j 09:09	23°♐43'13	1°09'39
morning rise	-10657 Mar 19 j 03:57	24°♐42'52	
retrograde	-10657 Jun 20 j 02:45	27°♐58'08	
opposition	-10657 Sep 02 j 05:07	25°♐56'38	-1°16'56
min. Earth dist.	-10657 Sep 03 j 01:48	25°♐54'25	17.97794 AU
direct	-10657 Nov 16 j 10:32	23°♐53'24	
evening set	-10656 Feb 18 j 12:06	27°♐10'55	
max. Earth dist.	-10656 Mar 05 j 04:38	28°♐06'52	19.94056 AU
conjunction	-10656 Mar 06 j 07:49	28°♐10'57	-1°09'12
minimum elong	-10656 Mar 06 j 07:49	28°♐10'57	1°09'47
morning rise	-10656 Mar 23 j 02:17	29°♐10'51	
	-10656 Apr 06 j 12:31	0°♑	
retrograde	-10656 Jun 23 j 20:27	2°♑26'47	
opposition	-10656 Sep 05 j 19:55	0°♑25'14	-1°16'53
min. Earth dist.	-10656 Sep 06 j 19:22	0°♑22'41	17.90427 AU
	-10656 Sep 15 j 14:42	30°℞♐	
direct	-10656 Nov 20 j 01:46	28°♐21'34	
	-10655 Jan 22 j 11:02	0°♑	
evening set	-10655 Feb 22 j 11:41	1°♑40'34	
max. Earth dist.	-10655 Mar 10 j 02:44	2°♑36'33	19.86697 AU
conjunction	-10655 Mar 11 j 07:25	2°♑40'53	-1°08'55
minimum elong	-10655 Mar 11 j 07:25	2°♑40'53	1°09'31
morning rise	-10655 Mar 28 j 01:25	3°♑41'00	
retrograde	-10655 Jun 28 j 17:28	6°♑57'36	
opposition	-10655 Sep 10 j 11:38	4°♑55'57	-1°16'22
min. Earth dist.	-10655 Sep 11 j 11:55	4°♑53'19	17.83087 AU
direct	-10655 Nov 24 j 21:03	2°♑51'52	
evening set	-10654 Feb 27 j 12:16	6°♑12'18	
max. Earth dist.	-10654 Mar 15 j 00:33	7°♑08'10	19.79387 AU
conjunction	-10654 Mar 16 j 07:42	7°♑12'53	-1°08'11
minimum elong	-10654 Mar 16 j 07:42	7°♑12'53	1°08'47
morning rise	-10654 Apr 02 j 01:07	8°♑13'13	
retrograde	-10654 Jul 03 j 11:55	11°♑30'27	
opposition	-10654 Sep 15 j 04:21	9°♑28'41	-1°15'21
min. Earth dist.	-10654 Sep 16 j 07:11	9°♑25'47	17.75844 AU
direct	-10654 Nov 29 j 14:28	7°♑24'10	
evening set	-10653 Mar 04 j 13:27	10°♑46'02	
max. Earth dist.	-10653 Mar 20 j 00:08	11°♑41'54	19.72225 AU
conjunction	-10653 Mar 21 j 08:37	11°♑46'51	-1°07'02
minimum elong	-10653 Mar 21 j 08:37	11°♑46'51	1°07'38
morning rise	-10653 Apr 07 j 01:28	12°♑47'22	
retrograde	-10653 Jul 08 j 09:47	16°♑05'14	
opposition	-10653 Sep 19 j 21:49	14°♑03'21	-1°13'52
min. Earth dist.	-10653 Sep 21 j 01:00	14°♑00'23	17.68778 AU
direct	-10653 Dec 04 j 11:59	11°♑58'25	
evening set	-10652 Mar 08 j 15:13	15°♑21'37	
max. Earth dist.	-10652 Mar 24 j 00:08	16°♑17'30	19.65269 AU
conjunction	-10652 Mar 25 j 10:02	16°♑22'41	-1°05'27
minimum elong	-10652 Mar 25 j 10:03	16°♑22'41	1°06'03
morning rise	-10652 Apr 11 j 02:09	17°♑23'23	
retrograde	-10652 Jul 12 j 04:57	20°♑41'50	
opposition	-10652 Sep 23 j 16:19	18°♑39'50	-1°11'54
min. Earth dist.	-10652 Sep 24 j 21:38	18°♑36'38	17.61969 AU
direct	-10652 Dec 08 j 07:36	16°♑34'29	
evening set	-10651 Mar 13 j 17:45	19°♑59'01	
max. Earth dist.	-10651 Mar 29 j 00:57	20°♑54'53	19.58622 AU
conjunction	-10651 Mar 30 j 12:04	21°♑00'17	-1°03'27
minimum elong	-10651 Mar 30 j 12:04	21°♑00'17	1°04'00
morning rise	-10651 Apr 16 j 03:30	22°♑01'09	
retrograde	-10651 Jul 17 j 03:35	25°♑20'10	

Attention, astronomical year style is used: The year -10651 in astronomical counting style is the year 10652 BCE in historical counting style.

opposition	-10651 Sep 28 j 11:28	23°♉18'03	-1°09'27	
min. Earth dist.	-10651 Sep 29 j 16:43	23°♉14'51	17.55499 AU	
direct	-10651 Dec 13 j 07:36	21°♉12'19		
evening set	-10650 Mar 18 j 20:50	24°♉38'06		
max. Earth dist.	-10650 Apr 03 j 03:11	25°♉34'06	19.52343 AU	
conjunction	-10650 Apr 04 j 14:38	25°♉39'34	-1°01'01	
minimum elong	-10650 Apr 04 j 14:38	25°♉39'34	1°01'34	
morning rise	-10650 Apr 21 j 05:05	26°♉40'35		
	-10650 Jul 19 j 19:23	0°♒		
retrograde	-10650 Jul 21 j 23:49	0°♒00'08		
	-10650 Jul 24 j 04:31	30°℞♉		
opposition	-10650 Oct 03 j 07:50	27°♉57'56	-1°06'32	
min. Earth dist.	-10650 Oct 04 j 14:37	27°♉54'34	17.49449 AU	
direct	-10650 Dec 18 j 05:23	25°♉51'51		
evening set	-10649 Mar 24 j 00:16	29°♉18'50		
	-10649 Apr 04 j 05:19	0°♒		
max. Earth dist.	-10649 Apr 08 j 04:56	0°♒14'49	19.46535 AU	
conjunction	-10649 Apr 09 j 17:18	0°♒20'27	-0°58'10	
minimum elong	-10649 Apr 09 j 17:18	0°♒20'27	0°58'42	
morning rise	-10649 Apr 26 j 06:59	1°♒21'36		
retrograde	-10649 Jul 26 j 23:22	4°♒41'41		
opposition	-10649 Oct 08 j 04:54	2°♒39'24	-1°03'10	
min. Earth dist.	-10649 Oct 09 j 11:06	2°♒36'06	17.43896 AU	
direct	-10649 Dec 23 j 06:54	0°♒33'01		
evening set	-10648 Mar 28 j 04:12	4°♒01'08		
max. Earth dist.	-10648 Apr 12 j 08:55	4°♒57'21	19.41243 AU	
conjunction	-10648 Apr 13 j 20:38	5°♒02'54	-0°54'55	
minimum elong	-10648 Apr 13 j 20:38	5°♒02'54	0°55'26	
morning rise	-10648 Apr 30 j 09:11	6°♒04'09		
retrograde	-10648 Jul 30 j 21:30	9°♒24'44		
opposition	-10648 Oct 12 j 02:52	7°♒22'25	-0°59'21	
min. Earth dist.	-10648 Oct 13 j 10:03	7°♒19'01	17.38885 AU	
direct	-10648 Dec 27 j 06:33	5°♒15'48		
evening set	-10647 Apr 02 j 08:44	8°♒44'58		
max. Earth dist.	-10647 Apr 17 j 11:35	9°♒41'08	19.36528 AU	
conjunction	-10647 Apr 19 j 00:12	9°♒46'51	-0°51'17	
minimum elong	-10647 Apr 19 j 00:13	9°♒46'51	0°51'48	
morning rise	-10647 May 05 j 11:54	10°♒48'12		
retrograde	-10647 Aug 04 j 22:12	14°♒09'16		
opposition	-10647 Oct 17 j 01:44	12°♒06'57	-0°55'07	
min. Earth dist.	-10647 Oct 18 j 08:11	12°♒03'37	17.34461 AU	
direct	-10646 Jan 01 j 08:47	10°♒00'09		
evening set	-10646 Apr 07 j 13:25	13°♒30'17		
max. Earth dist.	-10646 Apr 22 j 16:54	14°♒26'45	19.32396 AU	
conjunction	-10646 Apr 24 j 04:07	14°♒32'16	-0°47'17	
minimum elong	-10646 Apr 24 j 04:07	14°♒32'16	0°47'45	
	-10646 May 01 j 13:02	15°♒		
morning rise	-10646 May 10 j 14:32	15°♒33'40		
retrograde	-10646 Aug 09 j 22:25	18°♒55'10		
opposition	-10646 Oct 22 j 01:36	16°♒52'54	-0°50'28	
min. Earth dist.	-10646 Oct 23 j 08:24	16°♒49'32	17.30618 AU	
	-10646 Dec 14 j 05:45	15°℞♒		
direct	-10645 Jan 06 j 09:50	14°♒46'00		
	-10645 Jan 29 j 09:14	15°♒		
evening set	-10645 Apr 12 j 18:34	18°♒16'59		
max. Earth dist.	-10645 Apr 27 j 20:15	19°♒13'23	19.28857 AU	
conjunction	-10645 Apr 29 j 08:07	19°♒19'02	-0°42'56	
minimum elong	-10645 Apr 29 j 08:07	19°♒19'02	0°43'23	
morning rise	-10645 May 15 j 17:35	20°♒20'29		
retrograde	-10645 Aug 15 j 00:00	23°♒42'24		
opposition	-10645 Oct 27 j 02:06	21°♒40'10	-0°45'26	
min. Earth dist.	-10645 Oct 28 j 08:16	21°♒36'52	17.27371 AU	
direct	-10644 Jan 11 j 12:41	19°♒33'10		
evening set	-10644 Apr 16 j 23:43	23°♒04'55		
max. Earth dist.	-10644 May 02 j 02:17	24°♒01'37	19.25888 AU	
conjunction	-10644 May 03 j 12:24	24°♒07'00	-0°38'16	
minimum elong	-10644 May 03 j 12:25	24°♒07'01	0°38'39	
morning rise	-10644 May 19 j 20:34	25°♒08'28		
retrograde	-10644 Aug 19 j 01:35	28°♒30'44		
opposition	-10644 Oct 31 j 03:34	26°♒28'34	-0°40'04	
min. Earth dist.	-10644 Nov 01 j 09:34	26°♒25'18	17.24664 AU	
direct	-10643 Jan 15 j 15:29	24°♒21'32		
evening set	-10643 Apr 22 j 05:16	27°♒53'54		
max. Earth dist.	-10643 May 07 j 06:07	28°♒50'31	19.23454 AU	
conjunction	-10643 May 08 j 16:39	28°♒55'59	-0°33'18	
minimum elong	-10643 May 08 j 16:39	28°♒55'59	0°33'39	
morning rise	-10643 May 24 j 23:42	29°♒57'26		
	-10643 May 25 j 16:17	0°♓		
retrograde	-10643 Aug 24 j 03:01	3°♓20'01		
opposition	-10643 Nov 05 j 05:43	1°♓17'53	-0°34'23	
min. Earth dist.	-10643 Nov 06 j 11:12	1°♓14'40	17.22501 AU	
	-10643 Dec 07 j 07:02	30°℞♒		
direct	-10642 Jan 20 j 19:49	29°♒10'49		
	-10642 Mar 05 j 10:09	0°♓		
evening set	-10642 Apr 27 j 10:40	2°♓43'40		
conjunction	-10642 May 13 j 21:00	3°♓45'44	-0°28'06	
minimum elong	-10642 May 13 j 21:00	3°♓45'44	0°28'25	
max. Earth dist.	-10642 May 12 j 12:23	3°♓40'33	19.21557 AU	
morning rise	-10642 May 30 j 02:43	4°♓47'08		
retrograde	-10642 Aug 29 j 04:57	8°♓09'57		
opposition	-10642 Nov 10 j 08:37	6°♓07'51	-0°28'27	
min. Earth dist.	-10642 Nov 11 j 13:08	6°♓04'44	17.20856 AU	
direct	-10641 Jan 26 j 00:43	4°♓00'48		
evening set	-10641 May 02 j 15:54	7°♓33'57		
max. Earth dist.	-10641 May 17 j 16:34	8°♓30'49	19.20183 AU	
conjunction	-10641 May 19 j 00:54	8°♓35'57	-0°22'41	
minimum elong	-10641 May 19 j 00:54	8°♓35'57	0°22'57	
morning rise	-10641 Jun 04 j 05:27	9°♓37'18		
retrograde	-10641 Sep 03 j 05:57	13°♓00'18		
opposition	-10641 Nov 15 j 11:59	10°♓58'12	-0°22'19	
min. Earth dist.	-10641 Nov 16 j 15:58	10°♓55'10	17.19754 AU	
direct	-10640 Jan 31 j 06:01	8°♓51'10		
evening set	-10640 May 06 j 20:56	12°♓24'31		
max. Earth dist.	-10640 May 21 j 22:23	13°♓21'35	19.19358 AU	
conjunction	-10640 May 23 j 04:45	13°♓26'25	-0°17'07	
minimum elong	-10640 May 23 j 04:45	13°♓26'25	0°17'20	
morning rise	-10640 Jun 08 j 08:01	14°♓27'40		
retrograde	-10640 Sep 07 j 07:50	17°♓50'47		
opposition	-10640 Nov 19 j 15:39	15°♓48'42	-0°16'00	
min. Earth dist.	-10640 Nov 20 j 17:54	15°♓45'51	17.19190 AU	
direct	-10639 Feb 04 j 12:43	13°♓41'42		
evening set	-10639 May 12 j 01:41	17°♓15'05		
max. Earth dist.	-10639 May 27 j 03:00	18°♓12'13	19.19089 AU	
conjunction	-10639 May 28 j 08:11	18°♓16'52	-0°11'25	
minimum elong	-10639 May 28 j 08:11	18°♓16'52	0°11'36	
behind sun begin	-10639 May 28 j 03:25	18°♓16'08		
behind sun end	-10639 May 28 j 12:57	18°♓17'37		
morning rise	-10639 Jun 13 j 10:11	19°♓18'00		
retrograde	-10639 Sep 12 j 08:17	22°♓41'10		
opposition	-10639 Nov 24 j 19:53	20°♓39'05	-0°09'36	
min. Earth dist.	-10639 Nov 25 j 21:28	20°♓36'18	17.19220 AU	
direct	-10638 Feb 09 j 18:20	18°♓32'09		

Attention, astronomical year style is used: The year -10638 in astronomical counting style is the year 10639 BCE in historical counting style.

evening set	-10638 May 17 j 05:46	22°♓05'25		
max. Earth dist.	-10638 Jun 01 j 07:55	23°♓02'44	19.19431 AU	
conjunction	-10638 Jun 02 j 10:56	23°♓07'03	-0°05'41	
minimum elong	-10638 Jun 02 j 10:56	23°♓07'03	0°05'48	
behind sun begin	-10638 Jun 02 j 04:34	23°♓06'03		
behind sun end	-10638 Jun 02 j 17:18	23°♓08'02		
morning rise	-10638 Jun 18 j 11:45	24°♓08'02		
retrograde	-10638 Sep 17 j 10:12	27°♓31'12		
opposition	-10638 Nov 30 j 00:18	25°♓29'06	-0°03'07	
min. Earth dist.	-10638 Nov 30 j 23:14	25°♓26'38	17.19860 AU	
direct	-10637 Feb 15 j 01:51	23°♓22'17		
evening set	-10637 May 22 j 09:22	26°♓55'17		
asc. node	-10637 May 26 j 13:38	27°♓10'59		
conjunction	-10637 Jun 07 j 13:15	27°♓56'44	0°00'11	
minimum elong	-10637 Jun 07 j 13:15	27°♓56'44	0°00'06	
behind sun begin	-10637 Jun 07 j 06:52	27°♓55'45		
behind sun end	-10637 Jun 07 j 19:37	27°♓57'44		
max. Earth dist.	-10637 Jun 06 j 12:34	27°♓52'48	19.20397 AU	
morning rise	-10637 Jun 23 j 12:47	28°♓57'34		
	-10637 Jul 10 j 21:06	0°♈		
retrograde	-10637 Sep 22 j 10:04	2°♈20'40		
opposition	-10637 Dec 05 j 04:48	0°♈18'35	0°03'21	
min. Earth dist.	-10637 Dec 06 j 02:48	0°♈16'12	17.21161 AU	
	-10637 Dec 12 j 09:36	30°℞♓		
direct	-10636 Feb 20 j 06:57	28°♓11'53		
	-10636 Apr 26 j 04:04	0°♈		
evening set	-10636 May 26 j 12:21	1°♈44'30		
conjunction	-10636 Jun 11 j 14:50	2°♈45'45	0°06'02	
minimum elong	-10636 Jun 11 j 14:50	2°♈45'45	0°06'00	
behind sun begin	-10636 Jun 11 j 08:31	2°♈44'46		
behind sun end	-10636 Jun 11 j 21:10	2°♈46'45		
max. Earth dist.	-10636 Jun 10 j 16:13	2°♈42'09	19.22042 AU	
morning rise	-10636 Jun 27 j 13:17	3°♈46'25		
retrograde	-10636 Sep 26 j 12:01	7°♈09'23		
opposition	-10636 Dec 09 j 09:23	5°♈07'19	0°09'47	
min. Earth dist.	-10636 Dec 10 j 04:07	5°♈05'18	17.23135 AU	
direct	-10635 Feb 24 j 14:05	3°♈00'50		
evening set	-10635 May 31 j 14:35	6°♈32'56		
conjunction	-10635 Jun 16 j 15:48	7°♈33'58	0°11'44	
minimum elong	-10635 Jun 16 j 15:48	7°♈33'58	0°11'45	
behind sun begin	-10635 Jun 16 j 11:06	7°♈33'14		
behind sun end	-10635 Jun 16 j 20:30	7°♈34'42		
max. Earth dist.	-10635 Jun 15 j 20:24	7°♈30'52	19.24361 AU	
morning rise	-10635 Jul 02 j 12:56	8°♈34'25		
retrograde	-10635 Oct 01 j 11:30	11°♈57'13		
opposition	-10635 Dec 14 j 14:11	9°♈55'13	0°16'08	
min. Earth dist.	-10635 Dec 15 j 07:29	9°♈53'22	17.25804 AU	
direct	-10634 Mar 01 j 17:57	7°♈48'59		
evening set	-10634 Jun 05 j 16:13	11°♈20'28		
conjunction	-10634 Jun 21 j 16:00	12°♈21'15	0°17'21	
minimum elong	-10634 Jun 21 j 16:00	12°♈21'15	0°17'25	
max. Earth dist.	-10634 Jun 20 j 22:37	12°♈18'29	19.27390 AU	
morning rise	-10634 Jul 07 j 12:09	13°♈21'28		
retrograde	-10634 Oct 06 j 13:48	16°♈44'05		
opposition	-10634 Dec 19 j 18:42	14°♈42'10	0°22'22	
min. Earth dist.	-10634 Dec 20 j 08:24	14°♈40'43	17.29170 AU	
direct	-10633 Mar 06 j 23:54	12°♈36'15		
evening set	-10633 Jun 10 j 16:51	16°♈07'00		
conjunction	-10633 Jun 26 j 15:33	17°♈07'31	0°22'50	
minimum elong	-10633 Jun 26 j 15:32	17°♈07'31	0°22'58	
max. Earth dist.	-10633 Jun 26 j 01:55	17°♈05'21	19.31090 AU	
morning rise	-10633 Jul 12 j 10:30	18°♈07'31		
retrograde	-10633 Oct 11 j 13:01	21°♈29'53		
opposition	-10633 Dec 24 j 23:14	19°♈28'06	0°28'24	
min. Earth dist.	-10633 Dec 25 j 11:17	19°♈26'49	17.33181 AU	
direct	-10632 Mar 11 j 02:51	17°♈22'34		
evening set	-10632 Jun 14 j 16:58	20°♈52'29		
conjunction	-10632 Jun 30 j 14:14	21°♈52'43	0°28'10	
minimum elong	-10632 Jun 30 j 14:14	21°♈52'43	0°28'19	
max. Earth dist.	-10632 Jun 30 j 02:24	21°♈50'50	19.35412 AU	
morning rise	-10632 Jul 16 j 08:21	22°♈52'28		
retrograde	-10632 Oct 15 j 14:33	26°♈14'32		
opposition	-10632 Dec 29 j 03:22	24°♈12'54	0°34'14	
min. Earth dist.	-10632 Dec 29 j 12:01	24°♈11'59	17.37785 AU	
direct	-10631 Mar 16 j 08:20	22°♈07'46		
evening set	-10631 Jun 19 j 16:07	25°♈36'45		
conjunction	-10631 Jul 05 j 12:22	26°♈36'42	0°33'16	
minimum elong	-10631 Jul 05 j 12:21	26°♈36'42	0°33'30	
max. Earth dist.	-10631 Jul 05 j 04:26	26°♈35'26	19.40283 AU	
morning rise	-10631 Jul 21 j 05:21	27°♈36'11		
	-10631 Sep 04 j 07:22	0°♉		
retrograde	-10631 Oct 20 j 13:01	0°♉57'55		
	-10631 Dec 07 j 23:03	30°℞♈		
opposition	-10630 Jan 03 j 07:33	28°♈56'26	0°39'49	
min. Earth dist.	-10630 Jan 03 j 14:19	28°♈55'43	17.42899 AU	
direct	-10630 Mar 21 j 11:29	26°♈51'45		
	-10630 Jun 19 j 05:49	0°♉		
evening set	-10630 Jun 24 j 14:29	0°♉19'42		
conjunction	-10630 Jul 10 j 09:25	1°♉19'19	0°38'09	
minimum elong	-10630 Jul 10 j 09:24	1°♉19'19	0°38'24	
max. Earth dist.	-10630 Jul 10 j 03:09	1°♉18'20	19.45629 AU	
morning rise	-10630 Jul 26 j 01:43	2°♉18'32		
retrograde	-10630 Oct 25 j 13:05	5°♉39'55		
opposition	-10629 Jan 08 j 11:15	3°♉38'33	0°45'05	
min. Earth dist.	-10629 Jan 08 j 14:58	3°♉38'10	17.48457 AU	
direct	-10629 Mar 26 j 16:11	1°♉34'17		
evening set	-10629 Jun 29 j 11:56	5°♉01'07		
conjunction	-10629 Jul 15 j 05:57	6°♉00'25	0°42'44	
minimum elong	-10629 Jul 15 j 05:57	6°♉00'25	0°43'02	
max. Earth dist.	-10629 Jul 15 j 03:24	6°♉00'01	19.51369 AU	
morning rise	-10629 Jul 30 j 21:17	6°♉59'21		
retrograde	-10629 Oct 30 j 10:08	10°♉20'17		
opposition	-10628 Jan 13 j 14:24	8°♉19'04	0°50'01	
min. Earth dist.	-10628 Jan 13 j 16:02	8°♉18'54	17.54361 AU	
direct	-10628 Mar 30 j 19:24	6°♉15'14		
evening set	-10628 Jul 03 j 08:38	9°♉40'52		
conjunction	-10628 Jul 19 j 01:29	10°♉39'50	0°47'00	
minimum elong	-10628 Jul 19 j 01:29	10°♉39'50	0°47'21	
max. Earth dist.	-10628 Jul 19 j 00:24	10°♉39'39	19.57426 AU	
morning rise	-10628 Aug 03 j 16:15	11°♉38'29		
retrograde	-10628 Nov 03 j 07:59	14°♉58'56		
opposition	-10627 Jan 17 j 17:10	12°♉57'49	0°54'36	
min. Earth dist.	-10627 Jan 17 j 16:12	12°♉57'55	17.60565 AU	
direct	-10627 Apr 04 j 21:55	10°♉54'23		
evening set	-10627 Jul 08 j 04:06	14°♉18'44		
	-10627 Jul 19 j 05:41	15°♉		
conjunction	-10627 Jul 23 j 20:10	15°♉17'22	0°50'57	
minimum elong	-10627 Jul 23 j 20:10	15°♉17'22	0°51'19	
max. Earth dist.	-10627 Jul 23 j 22:36	15°♉17'45	19.63748 AU	
morning rise	-10627 Aug 08 j 10:10	16°♉15'44		
retrograde	-10627 Nov 08 j 04:19	19°♉35'39		
opposition	-10626 Jan 22 j 19:21	17°♉34'37	0°58'46	

Attention, astronomical year style is used: The year -10626 in astronomical counting style is the year 10627 BCE in historical counting style.

min. Earth dist.	-10626 Jan 22 j 15:52	17°♉34'59	17.66993 AU
direct	-10626 Apr 10 j 00:12	15°♉31'36	
evening set	-10626 Jul 12 j 22:46	18°♉54'35	
conjunction	-10626 Jul 28 j 13:53	19°♉52'53	0°54'32
minimum elong	-10626 Jul 28 j 13:52	19°♉52'53	0°54'57
max. Earth dist.	-10626 Jul 28 j 17:56	19°♉53'31	19.70281 AU
morning rise	-10626 Aug 13 j 03:30	20°♉50'58	
retrograde	-10626 Nov 13 j 00:10	24°♉10'18	
opposition	-10625 Jan 27 j 20:43	22°♉09'20	1°02'32
min. Earth dist.	-10625 Jan 27 j 15:05	22°♉09'55	17.73637 AU
direct	-10625 Apr 14 j 23:47	20°♉06'41	
evening set	-10625 Jul 17 j 16:12	23°♉28'16	
conjunction	-10625 Aug 02 j 06:44	24°♉26'15	0°57'44
minimum elong	-10625 Aug 02 j 06:43	24°♉26'15	0°58'11
max. Earth dist.	-10625 Aug 02 j 14:02	24°♉27'23	19.77011 AU
morning rise	-10625 Aug 17 j 19:50	25°♉24'03	
retrograde	-10625 Nov 17 j 19:38	28°♉42'45	
opposition	-10624 Feb 01 j 21:15	26°♉41'51	1°05'53
min. Earth dist.	-10624 Feb 01 j 12:48	26°♉42'43	17.80444 AU
direct	-10624 Apr 19 j 00:29	24°♉39'34	
evening set	-10624 Jul 21 j 08:38	27°♉59'42	
conjunction	-10624 Aug 05 j 22:23	28°♉57'21	1°00'34
minimum elong	-10624 Aug 05 j 22:23	28°♉57'21	1°01'03
max. Earth dist.	-10624 Aug 06 j 07:34	28°♉58'46	19.83900 AU
morning rise	-10624 Aug 21 j 11:15	29°♉54'52	
	-10624 Aug 22 j 21:11	0°♊	
retrograde	-10624 Nov 21 j 13:43	3°♊12'56	
opposition	-10623 Feb 05 j 21:04	1°♊12'04	1°08'47
min. Earth dist.	-10623 Feb 05 j 10:44	1°♊13'08	17.87434 AU
	-10623 Mar 09 j 00:05	30°℞♉	
direct	-10623 Apr 23 j 21:53	29°♉10'09	
	-10623 Jun 07 j 00:46	0°♊	
evening set	-10623 Jul 25 j 23:57	2°♊28'49	
conjunction	-10623 Aug 10 j 13:15	3°♊26'09	1°03'00
minimum elong	-10623 Aug 10 j 13:15	3°♊26'09	1°03'30
max. Earth dist.	-10623 Aug 11 j 01:34	3°♊28'03	19.90977 AU
morning rise	-10623 Aug 26 j 01:49	4°♊23'23	
retrograde	-10623 Nov 26 j 08:09	7°♊40'47	
opposition	-10622 Feb 10 j 19:57	5°♊39'58	1°11'15
min. Earth dist.	-10622 Feb 10 j 06:22	5°♊41'22	17.94597 AU
direct	-10622 Apr 28 j 20:30	3°♊38'27	
evening set	-10622 Jul 30 j 14:17	6°♊55'38	
conjunction	-10622 Aug 15 j 03:02	7°♊52'39	1°05'02
minimum elong	-10622 Aug 15 j 03:02	7°♊52'39	1°05'33
max. Earth dist.	-10622 Aug 15 j 17:31	7°♊54'53	19.98220 AU
morning rise	-10622 Aug 30 j 15:33	8°♊49'38	
retrograde	-10622 Dec 01 j 00:52	12°♊06'23	
opposition	-10621 Feb 15 j 18:02	10°♊05'37	1°13'16
min. Earth dist.	-10621 Feb 15 j 02:46	10°♊07'11	18.01940 AU
direct	-10621 May 03 j 15:48	8°♊04'29	
evening set	-10621 Aug 04 j 03:39	11°♊20'15	
conjunction	-10621 Aug 19 j 16:07	12°♊16'57	1°06'40
minimum elong	-10621 Aug 19 j 16:07	12°♊16'57	1°07'13
max. Earth dist.	-10621 Aug 20 j 09:19	12°♊19'35	20.05638 AU
morning rise	-10621 Sep 04 j 04:32	13°♊13'40	
retrograde	-10621 Dec 05 j 17:59	16°♊29'45	
opposition	-10620 Feb 20 j 14:55	14°♊29'07	1°14'50
min. Earth dist.	-10620 Feb 19 j 20:21	14°♊31'01	18.09427 AU
direct	-10620 May 07 j 12:02	12°♊28'24	
evening set	-10620 Aug 07 j 16:10	15°♊42'45	

conjunction	-10620 Aug 23 j 04:18	16°♊39'10	1°07'55
minimum elong	-10620 Aug 23 j 04:18	16°♊39'10	1°08'28
max. Earth dist.	-10620 Aug 23 j 23:41	16°♊42'07	20.13183 AU
morning rise	-10620 Sep 07 j 16:49	17°♊35'38	
retrograde	-10620 Dec 09 j 09:37	20°♊51'05	
opposition	-10619 Feb 24 j 11:16	18°♊50'34	1°15'58
min. Earth dist.	-10619 Feb 23 j 15:21	18°♊52'36	18.17036 AU
direct	-10619 May 12 j 05:11	16°♊50'19	
evening set	-10619 Aug 12 j 03:37	20°♊03'16	
conjunction	-10619 Aug 27 j 15:39	20°♊59'24	1°08'45
minimum elong	-10619 Aug 27 j 15:39	20°♊59'24	1°09'20
max. Earth dist.	-10619 Aug 28 j 13:24	21°♊02'43	20.20828 AU
morning rise	-10619 Sep 12 j 04:18	21°♊55'39	
retrograde	-10619 Dec 14 j 01:59	25°♊10'29	
min. Earth dist.	-10618 Feb 28 j 07:34	23°♊12'27	18.24694 AU
opposition	-10618 Mar 01 j 06:36	23°♊10'06	1°16'39
direct	-10618 May 16 j 23:15	21°♊10'19	
evening set	-10618 Aug 16 j 14:27	24°♊21'54	
conjunction	-10618 Sep 01 j 02:24	25°♊17'47	1°09'13
minimum elong	-10618 Sep 01 j 02:24	25°♊17'47	1°09'48
max. Earth dist.	-10618 Sep 02 j 02:11	25°♊21'23	20.28475 AU
morning rise	-10618 Sep 16 j 15:20	26°♊13'49	
retrograde	-10618 Dec 18 j 16:09	29°♊28'01	
min. Earth dist.	-10617 Mar 05 j 01:18	27°♊30'13	18.32332 AU
opposition	-10617 Mar 06 j 01:03	27°♊27'49	1°16'55
direct	-10617 May 21 j 14:52	25°♊28'28	
evening set	-10617 Aug 21 j 00:29	28°♊38'45	
conjunction	-10617 Sep 05 j 12:31	29°♊34'23	1°09'16
minimum elong	-10617 Sep 05 j 12:31	29°♊34'23	1°09'52
max. Earth dist.	-10617 Sep 06 j 13:57	29°♊38'13	20.36070 AU
	-10617 Sep 12 j 14:39	0°♋	
morning rise	-10617 Sep 21 j 01:46	0°♋30'12	
retrograde	-10617 Dec 23 j 07:46	3°♋43'48	
opposition	-10616 Mar 09 j 18:36	1°♋43'45	1°16'44
min. Earth dist.	-10616 Mar 08 j 16:11	1°♋46'25	18.39862 AU
	-10616 Apr 30 j 14:32	30°℞♊	
direct	-10616 May 25 j 06:50	29°♊44'51	
	-10616 Jun 18 j 11:20	0°♋	
evening set	-10616 Aug 24 j 09:48	2°♋53'50	
conjunction	-10616 Sep 08 j 21:53	3°♋49'14	1°08'57
minimum elong	-10616 Sep 08 j 21:53	3°♋49'14	1°09'33
max. Earth dist.	-10616 Sep 10 j 01:06	3°♋53'19	20.43506 AU
morning rise	-10616 Sep 24 j 11:32	4°♋44'51	
retrograde	-10616 Dec 26 j 20:09	7°♋57'52	
min. Earth dist.	-10615 Mar 13 j 08:48	6°♋00'39	18.47209 AU
opposition	-10615 Mar 14 j 11:32	5°♋57'57	1°16'08
direct	-10615 May 29 j 21:16	3°♋59'29	
evening set	-10615 Aug 28 j 18:32	7°♋07'12	
conjunction	-10615 Sep 13 j 06:51	8°♋02'23	1°08'15
minimum elong	-10615 Sep 13 j 06:51	8°♋02'23	1°08'50
max. Earth dist.	-10615 Sep 14 j 11:08	8°♋06'36	20.50736 AU
morning rise	-10615 Sep 28 j 21:00	8°♋57'49	
retrograde	-10615 Dec 31 j 10:43	12°♋10'15	
min. Earth dist.	-10614 Mar 17 j 22:27	10°♋13'21	18.54305 AU
opposition	-10614 Mar 19 j 03:22	10°♋10'26	1°15'07
direct	-10614 Jun 03 j 11:40	8°♋12'19	
evening set	-10614 Sep 02 j 02:38	11°♋18'50	
conjunction	-10614 Sep 17 j 15:15	12°♋13'49	1°07'11
minimum elong	-10614 Sep 17 j 15:16	12°♋13'49	1°07'47
max. Earth dist.	-10614 Sep 18 j 20:57	12°♋18'14	20.57667 AU
morning rise	-10614 Oct 03 j 06:00	13°♋09'06	

Attention, astronomical year style is used: The year -10613 in astronomical counting style is the year 10614 BCE in historical counting style.

retrograde	-10613 Jan 04 j 21:23	16°♋20'55		
opposition	-10613 Mar 23 j 18:30	14°♋21'13	1°13'42	
min. Earth dist.	-10613 Mar 22 j 13:43	14°♋24'06	18.61077 AU	
direct	-10613 Jun 08 j 00:09	12°♋23'25		
evening set	-10613 Sep 06 j 10:07	15°♋28'45		
conjunction	-10613 Sep 21 j 23:07	16°♋23'32	1°05'46	
minimum elong	-10613 Sep 21 j 23:08	16°♋23'32	1°06'20	
max. Earth dist.	-10613 Sep 23 j 05:19	16°♋28'01	20.64263 AU	
morning rise	-10613 Oct 07 j 14:31	17°♋18'40		
retrograde	-10612 Jan 09 j 10:21	20°♋29'53		
min. Earth dist.	-10612 Mar 26 j 01:59	18°♋33'18	18.67488 AU	
opposition	-10612 Mar 27 j 08:32	18°♋30'14	1°11'56	
direct	-10612 Jun 11 j 13:00	16°♋32'43		
evening set	-10612 Sep 09 j 16:58	19°♋36'55		
conjunction	-10612 Sep 25 j 06:27	20°♋31'32	1°04'01	
minimum elong	-10612 Sep 25 j 06:27	20°♋31'32	1°04'36	
max. Earth dist.	-10612 Sep 26 j 13:55	20°♋36'10	20.70482 AU	
morning rise	-10612 Oct 10 j 22:32	21°♋26'31		
retrograde	-10611 Jan 12 j 19:14	24°♋37'09		
opposition	-10611 Mar 31 j 21:54	22°♋37'32	1°09'47	
min. Earth dist.	-10611 Mar 30 j 15:40	22°♋40'34	18.73526 AU	
direct	-10611 Jun 15 j 23:36	20°♋40'16		
evening set	-10611 Sep 13 j 23:06	23°♋43'21		
conjunction	-10611 Sep 29 j 13:10	24°♋37'48	1°01'57	
minimum elong	-10611 Sep 29 j 13:10	24°♋37'48	1°02'31	
max. Earth dist.	-10611 Sep 30 j 21:00	24°♋42'29	20.76346 AU	
morning rise	-10611 Oct 15 j 06:06	25°♋32'40		
retrograde	-10610 Jan 17 j 06:49	28°♋42'44		
min. Earth dist.	-10610 Apr 04 j 02:31	26°♋46'17	18.79209 AU	
opposition	-10610 Apr 05 j 10:15	26°♋43'06	1°07'19	
direct	-10610 Jun 20 j 10:30	24°♋46'01		
evening set	-10610 Sep 18 j 04:50	27°♋48'04		
conjunction	-10610 Oct 03 j 19:31	28°♋42'24	0°59'36	
minimum elong	-10610 Oct 03 j 19:32	28°♋42'24	1°00'08	
max. Earth dist.	-10610 Oct 05 j 04:35	28°♋47'13	20.81846 AU	
morning rise	-10610 Oct 19 j 13:17	29°♋37'09		
	-10610 Oct 26 j 07:53	0°♌		
retrograde	-10609 Jan 21 j 14:27	2°♌46'38		
opposition	-10609 Apr 09 j 21:38	0°♌47'01	1°04'31	
min. Earth dist.	-10609 Apr 08 j 14:19	0°♌50'09	18.84548 AU	
	-10609 Apr 30 j 00:15	30°℞♋		
direct	-10609 Jun 24 j 19:20	28°♋50'07		
	-10609 Aug 16 j 17:58	0°♌		
evening set	-10609 Sep 22 j 10:02	1°♌51'11		
conjunction	-10609 Oct 08 j 01:22	2°♌45'23	0°56'58	
minimum elong	-10609 Oct 08 j 01:23	2°♌45'23	0°57'29	
max. Earth dist.	-10609 Oct 09 j 10:35	2°♌50'13	20.87035 AU	
morning rise	-10609 Oct 23 j 20:03	3°♌40'03		
retrograde	-10608 Jan 26 j 00:38	6°♌49'01		
min. Earth dist.	-10608 Apr 11 j 23:35	4°♌52'39	18.89586 AU	
opposition	-10608 Apr 13 j 08:14	4°♌49'23	1°01'26	
direct	-10608 Jun 28 j 04:00	2°♌52'39		
evening set	-10608 Sep 25 j 14:42	5°♌52'50		
conjunction	-10608 Oct 11 j 06:47	6°♌46'57	0°54'04	
minimum elong	-10608 Oct 11 j 06:48	6°♌46'57	0°54'34	
max. Earth dist.	-10608 Oct 12 j 17:13	6°♌51'56	20.91913 AU	
morning rise	-10608 Oct 27 j 02:21	7°♌41'32		
retrograde	-10607 Jan 29 j 08:05	10°♌50'01		
min. Earth dist.	-10607 Apr 16 j 09:56	8°♌53'38	18.94319 AU	
opposition	-10607 Apr 17 j 18:15	8°♌50'24	0°58'04	
direct	-10607 Jul 02 j 11:20	6°♌53'52		
evening set	-10607 Sep 29 j 19:10	9°♌53'14		
conjunction	-10607 Oct 15 j 12:03	10°♌47'15	0°50'55	
minimum elong	-10607 Oct 15 j 12:03	10°♌47'15	0°51'25	
max. Earth dist.	-10607 Oct 16 j 22:19	10°♌52'12	20.96505 AU	
morning rise	-10607 Oct 31 j 08:39	11°♌41'46		
retrograde	-10606 Feb 02 j 17:26	14°♌49'50		
min. Earth dist.	-10606 Apr 20 j 18:03	12°♌53'35	18.98756 AU	
opposition	-10606 Apr 22 j 03:20	12°♌50'15	0°54'26	
direct	-10606 Jul 06 j 18:18	10°♌53'52		
evening set	-10606 Oct 03 j 23:23	13°♌52'31		
conjunction	-10606 Oct 19 j 17:09	14°♌46'29	0°47'32	
minimum elong	-10606 Oct 19 j 17:10	14°♌46'29	0°47'59	
max. Earth dist.	-10606 Oct 21 j 04:15	14°♌51'32	21.00771 AU	
	-10606 Oct 23 j 15:05	15°♌		
morning rise	-10606 Nov 04 j 14:44	15°♌40'58		
retrograde	-10605 Feb 07 j 00:42	18°♌48'38		
min. Earth dist.	-10605 Apr 25 j 03:19	16°♌52'23	19.02846 AU	
opposition	-10605 Apr 26 j 11:56	16°♌49'07	0°50'34	
	-10605 Jun 24 j 06:43	15°℞♌		
direct	-10605 Jul 11 j 00:04	14°♌52'56		
	-10605 Jul 27 j 12:49	15°♌		
evening set	-10605 Oct 08 j 03:21	17°♌50'56		
conjunction	-10605 Oct 23 j 21:59	18°♌44'51	0°43'56	
minimum elong	-10605 Oct 23 j 21:59	18°♌44'51	0°44'23	
max. Earth dist.	-10605 Oct 25 j 08:31	18°♌49'49	21.04688 AU	
morning rise	-10605 Nov 08 j 20:37	19°♌39'19		
retrograde	-10604 Feb 11 j 09:42	22°♌46'39		
min. Earth dist.	-10604 Apr 28 j 10:45	20°♌50'30	19.06566 AU	
opposition	-10604 Apr 29 j 19:53	20°♌47'12	0°46'27	
direct	-10604 Jul 14 j 06:04	18°♌51'10		
evening set	-10604 Oct 11 j 07:17	21°♌48'38		
conjunction	-10604 Oct 27 j 02:52	22°♌42'32	0°40'08	
minimum elong	-10604 Oct 27 j 02:52	22°♌42'32	0°40'32	
max. Earth dist.	-10604 Oct 28 j 13:54	22°♌47'32	21.08198 AU	
morning rise	-10604 Nov 12 j 02:31	23°♌36'59		
retrograde	-10603 Feb 14 j 16:37	26°♌44'02		
min. Earth dist.	-10603 May 02 j 19:21	24°♌47'51	19.09855 AU	
opposition	-10603 May 04 j 03:23	24°♌44'39	0°42'08	
direct	-10603 Jul 18 j 10:33	22°♌48'47		
evening set	-10603 Oct 15 j 11:12	25°♌45'46		
conjunction	-10603 Oct 31 j 07:45	26°♌39'40	0°36'09	
minimum elong	-10603 Oct 31 j 07:46	26°♌39'40	0°36'31	
max. Earth dist.	-10603 Nov 01 j 17:44	26°♌44'30	21.11267 AU	
morning rise	-10603 Nov 16 j 08:35	27°♌34'08		
	-10602 Jan 08 j 08:34	0°♍		
retrograde	-10602 Feb 19 j 01:32	0°♍40'56		
	-10602 Apr 02 j 18:20	30°℞♌		
min. Earth dist.	-10602 May 07 j 02:28	28°♌44'48	19.12670 AU	
opposition	-10602 May 08 j 10:23	28°♌41'36	0°37'37	
direct	-10602 Jul 22 j 15:53	26°♌45'52		
evening set	-10602 Oct 19 j 15:16	29°♌42'28		
	-10602 Oct 24 j 20:34	0°♍		
conjunction	-10602 Nov 04 j 12:51	0°♍36'23	0°32'00	
minimum elong	-10602 Nov 04 j 12:51	0°♍36'23	0°32'20	
max. Earth dist.	-10602 Nov 05 j 22:46	0°♍41'12	21.13809 AU	
morning rise	-10602 Nov 20 j 14:41	1°♍30'52		
retrograde	-10601 Feb 23 j 08:06	4°♍37'27		
min. Earth dist.	-10601 May 11 j 10:31	2°♍41'13	19.14933 AU	
opposition	-10601 May 12 j 16:53	2°♍38'11	0°32'56	
direct	-10601 Jul 26 j 19:44	0°♍42'33		
evening set	-10601 Oct 23 j 19:24	3°♍38'50		

Attention, astronomical year style is used: The year -10601 in astronomical counting style is the year 10602 BCE in historical counting style.

conjunction	-10601 Nov 08 j 17:59	4°♑32'46	0°27'42
minimum elong	-10601 Nov 08 j 17:59	4°♑32'46	0°28'00
max. Earth dist.	-10601 Nov 10 j 02:16	4°♑37'21	21.15798 AU
morning rise	-10601 Nov 24 j 20:59	5°♑27'18	
retrograde	-10600 Feb 27 j 16:35	8°♑33'42	
opposition	-10600 May 15 j 23:06	6°♑34'27	0°28'07
min. Earth dist.	-10600 May 14 j 17:19	6°♑37'26	19.16622 AU
direct	-10600 Jul 30 j 00:17	4°♑38'51	
evening set	-10600 Oct 26 j 23:30	7°♑34'54	
conjunction	-10600 Nov 11 j 23:11	8°♑28'53	0°23'17
minimum elong	-10600 Nov 11 j 23:11	8°♑28'53	0°23'34
max. Earth dist.	-10600 Nov 13 j 07:02	8°♑33'24	21.17177 AU
morning rise	-10600 Nov 28 j 03:14	9°♑23'28	
retrograde	-10599 Mar 02 j 23:07	12°♑29'44	
min. Earth dist.	-10599 May 19 j 01:01	10°♑33'17	19.17685 AU
opposition	-10599 May 20 j 05:02	10°♑30'28	0°23'10
direct	-10599 Aug 03 j 04:14	8°♑34'52	
evening set	-10599 Oct 31 j 03:54	11°♑30'44	
conjunction	-10599 Nov 16 j 04:39	12°♑24'46	0°18'45
minimum elong	-10599 Nov 16 j 04:39	12°♑24'46	0°18'59
max. Earth dist.	-10599 Nov 17 j 10:30	12°♑29'00	21.17948 AU
morning rise	-10599 Dec 02 j 09:55	13°♑19'26	
retrograde	-10598 Mar 07 j 07:06	16°♑25'34	
min. Earth dist.	-10598 May 23 j 07:20	14°♑28'58	19.18147 AU
opposition	-10598 May 24 j 10:26	14°♑26'15	0°18'07
direct	-10598 Aug 07 j 07:53	12°♑30'35	
evening set	-10598 Nov 04 j 08:24	15°♑26'20	
conjunction	-10598 Nov 20 j 10:18	16°♑20'28	0°14'10
minimum elong	-10598 Nov 20 j 10:18	16°♑20'28	0°14'22
behind sun begin	-10598 Nov 20 j 07:17	16°♑20'03	
behind sun end	-10598 Nov 20 j 13:19	16°♑20'53	
max. Earth dist.	-10598 Nov 21 j 15:27	16°♑24'35	21.18112 AU
morning rise	-10598 Dec 06 j 16:35	17°♑15'12	
retrograde	-10597 Mar 11 j 13:18	20°♑21'14	
opposition	-10597 May 28 j 15:36	18°♑21'51	0°12'59
min. Earth dist.	-10597 May 27 j 14:19	18°♑24'24	19.18020 AU
direct	-10597 Aug 11 j 11:54	16°♑26'06	
evening set	-10597 Nov 08 j 12:56	19°♑21'48	
conjunction	-10597 Nov 24 j 15:52	20°♑16'01	0°09'31
minimum elong	-10597 Nov 24 j 15:52	20°♑16'01	0°09'40
behind sun begin	-10597 Nov 24 j 10:24	20°♑15'16	
behind sun end	-10597 Nov 24 j 21:20	20°♑16'47	
max. Earth dist.	-10597 Nov 25 j 19:00	20°♑19'51	21.17730 AU
morning rise	-10597 Dec 10 j 23:18	21°♑10'52	
retrograde	-10596 Mar 14 j 21:17	24°♑16'51	
opposition	-10596 May 31 j 20:28	22°♑17'21	0°07'49
min. Earth dist.	-10596 May 30 j 20:06	22°♑19'49	19.17380 AU
direct	-10596 Aug 14 j 15:09	20°♑21'28	
evening set	-10596 Nov 11 j 17:49	23°♑17'14	
conjunction	-10596 Nov 27 j 21:52	24°♑11'34	0°04'50
minimum elong	-10596 Nov 27 j 21:53	24°♑11'34	0°04'57
behind sun begin	-10596 Nov 27 j 15:24	24°♑10'41	
behind sun end	-10596 Nov 28 j 04:22	24°♑12'27	
max. Earth dist.	-10596 Nov 29 j 00:21	24°♑15'18	21.16844 AU
morning rise	-10596 Dec 14 j 06:18	25°♑06'31	
retrograde	-10595 Mar 19 j 03:15	28°♑12'28	
min. Earth dist.	-10595 Jun 04 j 02:26	26°♑15'11	19.16261 AU
opposition	-10595 Jun 05 j 01:03	26°♑12'54	0°02'36
direct	-10595 Aug 18 j 18:41	24°♑16'52	
evening set	-10595 Nov 15 j 23:01	27°♑12'46	
conjunction	-10595 Dec 02 j 04:11	28°♑07'14	0°00'03
minimum elong	-10595 Dec 02 j 04:09	28°♑07'14	0°00'08
behind sun begin	-10595 Dec 01 j 21:39	28°♑06'20	
behind sun end	-10595 Dec 02 j 10:40	28°♑08'07	
max. Earth dist.	-10595 Dec 03 j 04:27	28°♑10'39	21.15519 AU
desc. node	-10595 Dec 05 j 15:25	28°♑18'59	
morning rise	-10595 Dec 18 j 13:44	29°♑02'18	
	-10594 Jan 05 j 19:06	0°♎	
retrograde	-10594 Mar 23 j 11:52	2°♎08'18	
min. Earth dist.	-10594 Jun 08 j 07:56	0°♎10'50	19.14721 AU
opposition	-10594 Jun 09 j 05:30	0°♎08'38	-0°02'37
	-10594 Jun 12 j 18:39	30°℞♑	
direct	-10594 Aug 22 j 22:14	28°♑12'27	
	-10594 Oct 29 j 05:22	0°♎	
evening set	-10594 Nov 20 j 04:36	1°♎08'35	
conjunction	-10594 Dec 06 j 10:51	2°♎03'11	-0°04'45
minimum elong	-10594 Dec 06 j 10:51	2°♎03'11	0°04'44
behind sun begin	-10594 Dec 06 j 04:19	2°♎02'18	
behind sun end	-10594 Dec 06 j 17:22	2°♎04'05	
max. Earth dist.	-10594 Dec 07 j 10:20	2°♎06'30	21.13763 AU
morning rise	-10594 Dec 22 j 21:18	2°♎58'24	
retrograde	-10593 Mar 27 j 18:02	6°♎04'28	
opposition	-10593 Jun 13 j 09:49	4°♎04'45	-0°07'51
min. Earth dist.	-10593 Jun 12 j 14:01	4°♎06'46	19.12763 AU
direct	-10593 Aug 27 j 00:54	2°♎08'25	
evening set	-10593 Nov 24 j 10:37	5°♎04'52	
conjunction	-10593 Dec 10 j 17:52	5°♎59'38	-0°09'27
minimum elong	-10593 Dec 10 j 17:52	5°♎59'38	0°09'27
behind sun begin	-10593 Dec 10 j 12:19	5°♎58'52	
behind sun end	-10593 Dec 10 j 23:25	6°♎00'23	
max. Earth dist.	-10593 Dec 11 j 14:59	6°♎02'36	21.11625 AU
morning rise	-10593 Dec 27 j 05:24	6°♎54'59	
retrograde	-10592 Mar 31 j 03:07	10°♎01'13	
opposition	-10592 Jun 16 j 14:11	8°♎01'26	-0°13'03
min. Earth dist.	-10592 Jun 15 j 19:36	8°♎03'20	19.10429 AU
direct	-10592 Aug 30 j 05:03	6°♎04'56	
evening set	-10592 Nov 27 j 17:01	9°♎01'48	
conjunction	-10592 Dec 14 j 01:26	9°♎56'45	-0°14'08
minimum elong	-10592 Dec 14 j 01:26	9°♎56'45	0°14'11
behind sun begin	-10592 Dec 13 j 22:19	9°♎56'19	
behind sun end	-10592 Dec 14 j 04:32	9°♎57'10	
max. Earth dist.	-10592 Dec 14 j 21:38	9°♎59'35	21.09091 AU
morning rise	-10592 Dec 30 j 13:49	10°♎52'16	
retrograde	-10591 Apr 04 j 10:02	13°♎58'41	
opposition	-10591 Jun 20 j 18:39	11°♎58'52	-0°18'13
min. Earth dist.	-10591 Jun 20 j 02:03	12°♎00'34	19.07687 AU
direct	-10591 Sep 03 j 07:46	10°♎02'13	
evening set	-10591 Dec 02 j 00:17	12°♎59'35	
conjunction	-10591 Dec 18 j 09:41	13°♎54'42	-0°18'46
minimum elong	-10591 Dec 18 j 09:40	13°♎54'42	0°18'50
max. Earth dist.	-10591 Dec 19 j 03:07	13°♎57'10	21.06160 AU
morning rise	-10590 Jan 03 j 23:05	14°♎50'24	
retrograde	-10590 Apr 08 j 19:24	17°♎57'04	
opposition	-10590 Jun 24 j 23:07	15°♎57'13	-0°23'19
min. Earth dist.	-10590 Jun 24 j 08:12	15°♎58'45	19.04544 AU
direct	-10590 Sep 07 j 12:25	14°♎00'23	
evening set	-10590 Dec 06 j 08:10	16°♎58'20	
conjunction	-10590 Dec 22 j 18:37	17°♎53'41	-0°23'20
minimum elong	-10590 Dec 22 j 18:37	17°♎53'41	0°23'28
max. Earth dist.	-10590 Dec 23 j 10:47	17°♎55'57	21.02794 AU
morning rise	-10589 Jan 08 j 08:45	18°♎49'33	
retrograde	-10589 Apr 13 j 03:25	21°♎56'30	
opposition	-10589 Jun 29 j 03:55	19°♎56'38	-0°28'19

Attention, astronomical year style is used: The year -10589 in astronomical counting style is the year 10590 BCE in historical counting style.

min. Earth dist.	-10589 Jun 28 j 15:14	19°♎57'56	19.00951 AU
direct	-10589 Sep 11 j 16:17	17°♎59'36	
evening set	-10589 Dec 10 j 16:40	20°♎58'13	
conjunction	-10589 Dec 27 j 04:00	21°♎53'46	-0°27'49
minimum elong	-10589 Dec 27 j 04:00	21°♎53'46	0°27'59
max. Earth dist.	-10589 Dec 27 j 17:01	21°♎55'37	20.98983 AU
morning rise	-10588 Jan 12 j 19:03	22°♎49'51	
retrograde	-10588 Apr 16 j 13:00	25°♎57'08	
opposition	-10588 Jul 02 j 09:00	23°♎57'13	-0°33'13
min. Earth dist.	-10588 Jul 01 j 22:18	23°♎58'19	18.96901 AU
direct	-10588 Sep 14 j 21:12	21°♎59'57	
evening set	-10588 Dec 14 j 02:03	24°♎59'18	
conjunction	-10588 Dec 30 j 14:26	25°♎55'06	-0°32'11
minimum elong	-10588 Dec 30 j 14:26	25°♎55'06	0°32'23
max. Earth dist.	-10588 Dec 31 j 01:46	25°♎56'42	20.94677 AU
morning rise	-10587 Jan 16 j 06:06	26°♎51'23	
retrograde	-10587 Apr 20 j 22:19	29°♎59'00	
opposition	-10587 Jul 06 j 14:17	27°♎59'01	-0°37'59
min. Earth dist.	-10587 Jul 06 j 06:04	27°♎59'52	18.92340 AU
direct	-10587 Sep 19 j 02:38	26°♎01'29	
evening set	-10587 Dec 18 j 12:21	29°♎01'39	
conjunction	-10586 Jan 04 j 01:34	29°♎57'41	-0°36'24
minimum elong	-10586 Jan 04 j 01:33	29°♎57'41	0°36'39
max. Earth dist.	-10586 Jan 04 j 09:09	29°♎58'45	20.89870 AU
	-10586 Jan 04 j 17:54	0°♏	
morning rise	-10586 Jan 20 j 18:04	0°♏54'11	
retrograde	-10586 Apr 25 j 08:08	4°♏02'11	
opposition	-10586 Jul 10 j 20:01	2°♏02'06	-0°42'35
min. Earth dist.	-10586 Jul 10 j 14:05	2°♏02'43	18.87279 AU
direct	-10586 Sep 23 j 08:21	0°♏04'14	
evening set	-10586 Dec 22 j 23:14	3°♏05'16	
conjunction	-10585 Jan 08 j 13:24	4°♏01'33	-0°40'28
minimum elong	-10585 Jan 08 j 13:23	4°♏01'33	0°40'44
max. Earth dist.	-10585 Jan 08 j 19:07	4°♏02'22	20.84551 AU
morning rise	-10585 Jan 25 j 06:20	4°♏58'16	
retrograde	-10585 Apr 29 j 18:17	8°♏06'40	
opposition	-10585 Jul 15 j 02:02	6°♏06'27	-0°46'59
min. Earth dist.	-10585 Jul 14 j 22:28	6°♏06'50	18.81717 AU
direct	-10585 Sep 27 j 15:09	4°♏08'14	
evening set	-10585 Dec 27 j 10:58	7°♏10'11	
conjunction	-10584 Jan 13 j 01:51	8°♏06'43	-0°44'20
minimum elong	-10584 Jan 13 j 01:50	8°♏06'43	0°44'40
max. Earth dist.	-10584 Jan 13 j 03:49	8°♏07'00	20.78779 AU
morning rise	-10584 Jan 29 j 19:32	9°♏03'40	
retrograde	-10584 May 03 j 04:43	12°♏12'30	
opposition	-10584 Jul 18 j 08:22	10°♏12'07	-0°51'10
min. Earth dist.	-10584 Jul 18 j 07:09	10°♏12'15	18.75742 AU
direct	-10584 Sep 30 j 22:04	8°♏13'29	
evening set	-10584 Dec 30 j 23:21	11°♏16'26	
conjunction	-10583 Jan 16 j 15:11	12°♏13'15	-0°48'00
minimum elong	-10583 Jan 16 j 15:10	12°♏13'15	0°48'21
max. Earth dist.	-10583 Jan 16 j 15:28	12°♏13'17	20.72606 AU
morning rise	-10583 Feb 02 j 09:14	13°♏10'25	
	-10583 Mar 10 j 15:19	15°♏	
retrograde	-10583 May 07 j 15:37	16°♏19'41	
	-10583 Jul 06 j 00:57	15°℞♏	
opposition	-10583 Jul 22 j 15:09	14°♏19'10	-0°55'07
min. Earth dist.	-10583 Jul 22 j 16:08	14°♏19'04	18.69391 AU
direct	-10583 Oct 05 j 05:49	12°♏20'07	
	-10583 Dec 28 j 06:01	15°♏	
evening set	-10582 Jan 04 j 12:46	15°♏24'07	

conjunction	-10582 Jan 21 j 05:10	16°♏21'12	-0°51'26
minimum elong	-10582 Jan 21 j 05:09	16°♏21'12	0°51'49
max. Earth dist.	-10582 Jan 21 j 01:45	16°♏20'42	20.66107 AU
morning rise	-10582 Feb 06 j 23:48	17°♏18'37	
retrograde	-10582 May 12 j 03:11	20°♏28'21	
opposition	-10582 Jul 26 j 22:18	18°♏27'40	-0°58'48
min. Earth dist.	-10582 Jul 27 j 01:35	18°♏27'20	18.62763 AU
direct	-10582 Oct 09 j 14:09	16°♏28'10	
evening set	-10581 Jan 09 j 02:50	19°♏33'18	
conjunction	-10581 Jan 25 j 20:01	20°♏30'41	-0°54'37
minimum elong	-10581 Jan 25 j 20:00	20°♏30'41	0°55'02
max. Earth dist.	-10581 Jan 25 j 15:12	20°♏29'59	20.59352 AU
morning rise	-10581 Feb 11 j 14:49	21°♏28'20	
retrograde	-10581 May 16 j 14:54	24°♏38'35	
opposition	-10581 Jul 31 j 06:04	22°♏37'46	-1°02'12
min. Earth dist.	-10581 Jul 31 j 11:11	22°♏37'13	18.55909 AU
direct	-10581 Oct 13 j 22:51	20°♏37'50	
evening set	-10580 Jan 13 j 17:42	23°♏44'09	
conjunction	-10580 Jan 30 j 11:20	24°♏41'48	-0°57'32
minimum elong	-10580 Jan 30 j 11:20	24°♏41'48	0°57'58
max. Earth dist.	-10580 Jan 30 j 03:00	24°♏40'36	20.52416 AU
morning rise	-10580 Feb 16 j 06:37	25°♏39'43	
retrograde	-10580 May 20 j 03:43	28°♏50'32	
opposition	-10580 Aug 03 j 14:25	26°♏49'34	-1°05'18
min. Earth dist.	-10580 Aug 03 j 21:46	26°♏48'47	18.48909 AU
direct	-10580 Oct 17 j 08:36	24°♏49'12	
evening set	-10579 Jan 17 j 09:31	27°♏56'46	
conjunction	-10579 Feb 03 j 03:52	28°♏54'44	-1°00'10
minimum elong	-10579 Feb 03 j 03:51	28°♏54'44	1°00'38
max. Earth dist.	-10579 Feb 02 j 18:15	28°♏53'21	20.45344 AU
morning rise	-10579 Feb 19 j 23:10	29°♏52'53	
	-10579 Feb 22 j 01:34	0°♐	
retrograde	-10579 May 24 j 16:52	3°♐04'17	
opposition	-10579 Aug 07 j 23:17	1°♐03'13	-1°08'05
min. Earth dist.	-10579 Aug 08 j 08:20	1°♐02'16	18.41786 AU
	-10579 Sep 03 j 02:24	30°℞♏	
direct	-10579 Oct 21 j 18:48	29°♏02'27	
	-10579 Dec 08 j 13:59	0°♐	
evening set	-10578 Jan 22 j 02:29	2°♐11'21	
conjunction	-10578 Feb 07 j 21:07	3°♐09'36	-1°02'29
minimum elong	-10578 Feb 07 j 21:06	3°♐09'36	1°02'58
max. Earth dist.	-10578 Feb 07 j 07:55	3°♐07'41	20.38182 AU
morning rise	-10578 Feb 24 j 16:42	4°♐08'01	
retrograde	-10578 May 29 j 06:58	7°♐20'02	
opposition	-10578 Aug 12 j 09:02	5°♐18'53	-1°10'30
min. Earth dist.	-10578 Aug 12 j 20:24	5°♐17'41	18.34600 AU
direct	-10578 Oct 26 j 05:48	3°♐17'43	
evening set	-10577 Jan 26 j 20:05	6°♐27'59	
conjunction	-10577 Feb 12 j 15:15	7°♐26'33	-1°04'29
minimum elong	-10577 Feb 12 j 15:14	7°♐26'32	1°05'01
max. Earth dist.	-10577 Feb 12 j 00:57	7°♐24'27	20.30959 AU
morning rise	-10577 Mar 01 j 10:42	8°♐25'12	
retrograde	-10577 Jun 02 j 22:17	11°♐37'53	
opposition	-10577 Aug 16 j 19:27	9°♐36'41	-1°12'34
min. Earth dist.	-10577 Aug 17 j 08:19	9°♐35'18	18.27351 AU
direct	-10577 Oct 30 j 17:50	7°♐35'07	
evening set	-10576 Jan 31 j 14:58	10°♐46'49	
conjunction	-10576 Feb 17 j 10:16	11°♐45'40	-1°06'08
minimum elong	-10576 Feb 17 j 10:16	11°♐45'40	1°06'41
max. Earth dist.	-10576 Feb 16 j 16:26	11°♐43'03	20.23690 AU
morning rise	-10576 Mar 05 j 05:51	12°♐44'36	

Attention, astronomical year style is used: The year -10576 in astronomical counting style is the year 10577 BCE in historical counting style.

retrograde	-10576 Jun 06 j 13:45	15°♐57'56	
opposition	-10576 Aug 20 j 06:39	13°♐56'42	-1°14'13
min. Earth dist.	-10576 Aug 20 j 22:05	13°♐55'03	18.20071 AU
direct	-10576 Nov 03 j 06:04	11°♐54'44	
evening set	-10575 Feb 04 j 10:49	15°♐07'54	
max. Earth dist.	-10575 Feb 20 j 11:24	16°♐04'14	20.16377 AU
conjunction	-10575 Feb 21 j 06:32	16°♐07'04	-1°07'25
minimum elong	-10575 Feb 21 j 06:32	16°♐07'04	1°07'59
morning rise	-10575 Mar 10 j 01:51	17°♐06'15	
retrograde	-10575 Jun 11 j 07:27	20°♐20'15	
opposition	-10575 Aug 24 j 18:46	18°♐18'59	-1°15'28
min. Earth dist.	-10575 Aug 25 j 11:42	18°♐17'09	18.12727 AU
direct	-10575 Nov 07 j 20:10	16°♐16'38	
evening set	-10574 Feb 09 j 07:52	19°♐31'16	
max. Earth dist.	-10574 Feb 25 j 04:49	20°♐27'22	20.08998 AU
conjunction	-10574 Feb 26 j 03:32	20°♐30'44	-1°08'19
minimum elong	-10574 Feb 26 j 03:32	20°♐30'44	1°08'54
morning rise	-10574 Mar 14 j 22:43	21°♐30'10	
retrograde	-10574 Jun 16 j 00:22	24°♐44'51	
opposition	-10574 Aug 29 j 07:50	22°♐43'31	-1°16'17
min. Earth dist.	-10574 Aug 30 j 03:30	22°♐41'24	18.05334 AU
direct	-10574 Nov 12 j 10:24	20°♐40'45	
evening set	-10573 Feb 14 j 05:42	23°♐56'52	
max. Earth dist.	-10573 Mar 02 j 01:28	24°♐53'02	20.01573 AU
conjunction	-10573 Mar 03 j 01:34	24°♐56'37	-1°08'49
minimum elong	-10573 Mar 03 j 01:34	24°♐56'37	1°09'24
morning rise	-10573 Mar 19 j 20:22	25°♐56'18	
retrograde	-10573 Jun 20 j 19:31	29°♐11'39	
opposition	-10573 Sep 02 j 21:46	27°♐10'13	-1°16'38
min. Earth dist.	-10573 Sep 03 j 18:37	27°♐07'58	17.97891 AU
direct	-10573 Nov 17 j 02:20	25°♐07'03	
evening set	-10572 Feb 19 j 04:30	28°♐24'36	
max. Earth dist.	-10572 Mar 05 j 20:53	29°♐20'33	19.94113 AU
conjunction	-10572 Mar 07 j 00:15	29°♐24'39	-1°08'54
minimum elong	-10572 Mar 07 j 00:15	29°♐24'39	1°09'30
	-10572 Mar 16 j 20:32	0°♑	
morning rise	-10572 Mar 23 j 18:46	0°♑24'33	
retrograde	-10572 Jun 24 j 13:49	3°♑40'33	
opposition	-10572 Sep 06 j 12:42	1°♑39'01	-1°16'32
min. Earth dist.	-10572 Sep 07 j 12:14	1°♑36'29	17.90441 AU
	-10572 Oct 20 j 21:12	30°℞♐	
direct	-10572 Nov 20 j 18:53	29°♐35'23	
	-10572 Dec 21 j 11:57	0°♑	
evening set	-10571 Feb 23 j 04:10	2°♑54'23	
conjunction	-10571 Mar 11 j 23:55	3°♑54'42	-1°08'34
minimum elong	-10571 Mar 11 j 23:55	3°♑54'42	1°09'09
max. Earth dist.	-10571 Mar 10 j 19:11	3°♑50'22	19.86675 AU
morning rise	-10571 Mar 28 j 17:56	4°♑54'50	
retrograde	-10571 Jun 29 j 09:40	8°♑11'27	
opposition	-10571 Sep 11 j 04:19	6°♑09'48	-1°15'57
min. Earth dist.	-10571 Sep 12 j 04:42	6°♑07'09	17.83032 AU
direct	-10571 Nov 25 j 13:13	4°♑05'42	
evening set	-10570 Feb 28 j 04:44	7°♑26'07	
max. Earth dist.	-10570 Mar 15 j 16:56	8°♑21'58	19.79317 AU
conjunction	-10570 Mar 17 j 00:12	8°♑26'42	-1°07'48
minimum elong	-10570 Mar 17 j 00:13	8°♑26'42	1°08'24
morning rise	-10570 Apr 02 j 17:41	9°♑27'02	
retrograde	-10570 Jul 04 j 04:45	12°♑44'15	
opposition	-10570 Sep 15 j 21:03	10°♑42'28	-1°14'54
min. Earth dist.	-10570 Sep 16 j 23:49	10°♑39'33	17.75763 AU
direct	-10570 Nov 30 j 07:42	8°♑37'55	
evening set	-10569 Mar 05 j 05:42	11°♑59'42	
max. Earth dist.	-10569 Mar 20 j 16:39	12°♑55'37	19.72145 AU
conjunction	-10569 Mar 22 j 00:56	13°♑00'31	-1°06'36
minimum elong	-10569 Mar 22 j 00:56	13°♑00'31	1°07'12
morning rise	-10569 Apr 07 j 17:50	14°♑01'03	
retrograde	-10569 Jul 09 j 01:36	17°♑18'52	
opposition	-10569 Sep 20 j 14:28	15°♑16'56	-1°13'22
min. Earth dist.	-10569 Sep 21 j 17:31	15°♑13'59	17.68707 AU
direct	-10569 Dec 05 j 04:37	13°♑11'57	
evening set	-10568 Mar 09 j 07:33	16°♑35'05	
max. Earth dist.	-10568 Mar 24 j 16:36	17°♑30'58	19.65222 AU
conjunction	-10568 Mar 26 j 02:24	17°♑36'08	-1°04'59
minimum elong	-10568 Mar 26 j 02:24	17°♑36'08	1°05'33
morning rise	-10568 Apr 11 j 18:33	18°♑36'50	
retrograde	-10568 Jul 12 j 21:23	21°♑55'13	
opposition	-10568 Sep 24 j 08:48	19°♑53'09	-1°11'21
min. Earth dist.	-10568 Sep 25 j 13:54	19°♑49'59	17.61957 AU
direct	-10568 Dec 09 j 00:54	17°♑47'44	
evening set	-10567 Mar 14 j 10:03	21°♑12'11	
max. Earth dist.	-10567 Mar 29 j 17:39	22°♑08'07	19.58653 AU
conjunction	-10567 Mar 31 j 04:24	22°♑13'27	-1°02'56
minimum elong	-10567 Mar 31 j 04:24	22°♑13'27	1°03'31
morning rise	-10567 Apr 16 j 19:52	23°♑14'19	
retrograde	-10567 Jul 17 j 19:24	26°♑33'15	
opposition	-10567 Sep 29 j 04:02	24°♑31'05	-1°08'52
min. Earth dist.	-10567 Sep 30 j 08:55	24°♑27'56	17.55585 AU
direct	-10567 Dec 13 j 23:58	22°♑25'18	
evening set	-10566 Mar 19 j 13:00	25°♑51'00	
max. Earth dist.	-10566 Apr 03 j 19:39	26°♑47'02	19.52489 AU
conjunction	-10566 Apr 05 j 06:48	26°♑52'27	-1°00'28
minimum elong	-10566 Apr 05 j 06:49	26°♑52'27	1°01'01
morning rise	-10566 Apr 21 j 21:17	27°♑53'27	
	-10566 May 31 j 08:45	0°♒	
retrograde	-10566 Jul 22 j 16:29	1°♒12'57	
	-10566 Sep 14 j 16:17	30°℞♑	
opposition	-10566 Oct 04 j 00:21	29°♑10'43	-1°05'55
min. Earth dist.	-10566 Oct 05 j 06:43	29°♑07'23	17.49664 AU
direct	-10566 Dec 18 j 22:02	27°♑04'36	
	-10565 Mar 15 j 20:08	0°♒	
evening set	-10565 Mar 24 j 16:32	0°♒31'30	
max. Earth dist.	-10565 Apr 08 j 21:38	1°♒27'32	19.46823 AU
conjunction	-10565 Apr 10 j 09:37	1°♒33'07	-0°57'35
minimum elong	-10565 Apr 10 j 09:37	1°♒33'07	0°58'08
morning rise	-10565 Apr 26 j 23:20	2°♒34'15	
retrograde	-10565 Jul 27 j 15:47	5°♒54'17	
opposition	-10565 Oct 08 j 21:18	3°♒52'00	-1°02'30
min. Earth dist.	-10565 Oct 10 j 03:04	3°♒48'44	17.44259 AU
direct	-10565 Dec 23 j 22:50	1°♒45'37	
evening set	-10564 Mar 28 j 20:28	5°♒13'40	
max. Earth dist.	-10564 Apr 13 j 01:26	6°♒09'55	19.41680 AU
conjunction	-10564 Apr 14 j 12:57	6°♒15'26	-0°54'19
minimum elong	-10564 Apr 14 j 12:58	6°♒15'26	0°54'50
morning rise	-10564 May 01 j 01:34	7°♒16'41	
retrograde	-10564 Jul 31 j 14:14	10°♒37'13	
opposition	-10564 Oct 12 j 19:24	8°♒34'57	-0°58'39
min. Earth dist.	-10564 Oct 14 j 02:14	8°♒31'34	17.39386 AU
direct	-10564 Dec 27 j 22:23	6°♒28'22	
evening set	-10563 Apr 03 j 01:02	9°♒57'29	
max. Earth dist.	-10563 Apr 18 j 04:11	10°♒53'41	19.37089 AU
conjunction	-10563 Apr 19 j 16:32	10°♒59'22	-0°50'39

Attention, astronomical year style is used: The year -10563 in astronomical counting style is the year 10564 BCE in historical counting style.

minimum elong	-10563 Apr 19 j 16:33	10°♒59'22	0°51'07
morning rise	-10563 May 06 j 04:17	12°♒00'42	
	-10563 Jul 08 j 20:02	15°♒	
retrograde	-10563 Aug 05 j 14:55	15°♒21'44	
	-10563 Sep 02 j 19:24	15°℞♒	
opposition	-10563 Oct 17 j 18:12	13°♒19'29	-0°54'23
min. Earth dist.	-10563 Oct 19 j 00:22	13°♒16'11	17.35066 AU
direct	-10562 Jan 02 j 00:50	11°♒12'46	
evening set	-10562 Apr 08 j 05:49	14°♒42'52	
	-10562 Apr 12 j 21:13	15°♒	
max. Earth dist.	-10562 Apr 23 j 09:26	15°♒39'21	19.33039 AU
conjunction	-10562 Apr 24 j 20:34	15°♒44'51	-0°46'37
minimum elong	-10562 Apr 24 j 20:34	15°♒44'51	0°47'05
morning rise	-10562 May 11 j 07:03	16°♒46'15	
retrograde	-10562 Aug 10 j 14:58	20°♒07'44	
opposition	-10562 Oct 22 j 18:07	18°♒05'33	-0°49'42
min. Earth dist.	-10562 Oct 24 j 00:54	18°♒02'11	17.31281 AU
direct	-10561 Jan 07 j 02:04	15°♒58'44	
evening set	-10561 Apr 13 j 10:53	19°♒29'42	
max. Earth dist.	-10561 Apr 28 j 12:38	20°♒26'06	19.29524 AU
conjunction	-10561 Apr 30 j 00:30	20°♒31'44	-0°42'14
minimum elong	-10561 Apr 30 j 00:30	20°♒31'44	0°42'39
morning rise	-10561 May 16 j 10:02	21°♒33'11	
retrograde	-10561 Aug 15 j 16:38	24°♒55'06	
opposition	-10561 Oct 27 j 18:43	22°♒52'57	-0°44'38
min. Earth dist.	-10561 Oct 29 j 00:53	22°♒49'39	17.28023 AU
direct	-10560 Jan 12 j 05:13	20°♒46'03	
evening set	-10560 Apr 17 j 16:11	24°♒17'46	
max. Earth dist.	-10560 May 02 j 18:35	25°♒14'26	19.26512 AU
conjunction	-10560 May 04 j 04:54	25°♒19'51	-0°37'33
minimum elong	-10560 May 04 j 04:54	25°♒19'51	0°37'55
morning rise	-10560 May 20 j 13:06	26°♒21'18	
retrograde	-10560 Aug 19 j 18:03	29°♒43'33	
opposition	-10560 Oct 31 j 20:07	27°♒41'28	-0°39'15
min. Earth dist.	-10560 Nov 02 j 02:22	27°♒38'09	17.25251 AU
direct	-10559 Jan 16 j 08:16	25°♒34'30	
evening set	-10559 Apr 22 j 21:47	29°♒06'50	
	-10559 May 07 j 00:57	0°♓	
max. Earth dist.	-10559 May 07 j 22:21	0°♓03'23	19.23996 AU
conjunction	-10559 May 09 j 09:12	0°♓08'54	-0°32'34
minimum elong	-10559 May 09 j 09:12	0°♓08'54	0°32'55
morning rise	-10559 May 25 j 16:18	1°♓10'21	
retrograde	-10559 Aug 24 j 19:49	4°♓32'54	
opposition	-10559 Nov 05 j 22:19	2°♓30'50	-0°33'34
min. Earth dist.	-10559 Nov 07 j 03:56	2°♓27'36	17.22989 AU
direct	-10558 Jan 21 j 11:53	0°♓23'49	
evening set	-10558 Apr 28 j 03:00	3°♓56'36	
max. Earth dist.	-10558 May 13 j 04:32	4°♓53'27	19.21988 AU
conjunction	-10558 May 14 j 13:23	4°♓58'40	-0°27'22
minimum elong	-10558 May 14 j 13:23	4°♓58'40	0°27'40
morning rise	-10558 May 30 j 19:08	6°♓00'04	
retrograde	-10558 Aug 29 j 21:54	9°♓22'51	
opposition	-10558 Nov 11 j 01:08	7°♓20'46	-0°27'38
min. Earth dist.	-10558 Nov 12 j 05:57	7°♓17'38	17.21228 AU
direct	-10557 Jan 26 j 17:16	5°♓13'45	
evening set	-10557 May 03 j 08:19	8°♓46'51	
max. Earth dist.	-10557 May 18 j 08:41	9°♓43'38	19.20502 AU
conjunction	-10557 May 19 j 17:21	9°♓48'50	-0°21'57
minimum elong	-10557 May 19 j 17:21	9°♓48'50	0°22'14
morning rise	-10557 Jun 04 j 21:57	10°♓50'10	
retrograde	-10557 Sep 03 j 22:28	14°♓13'07	
opposition	-10557 Nov 16 j 04:15	12°♓11'02	-0°21'30
min. Earth dist.	-10557 Nov 17 j 08:26	12°♓07'58	17.20022 AU
direct	-10556 Jan 31 j 21:43	10°♓03'59	
evening set	-10556 May 07 j 13:13	13°♓37'16	
conjunction	-10556 May 23 j 21:06	14°♓39'10	-0°16'24
minimum elong	-10556 May 23 j 21:06	14°♓39'10	0°16'37
max. Earth dist.	-10556 May 22 j 14:36	14°♓34'18	19.19584 AU
morning rise	-10556 Jun 09 j 00:25	15°♓40'24	
retrograde	-10556 Sep 08 j 00:24	19°♓03'26	
opposition	-10556 Nov 20 j 07:54	17°♓01'20	-0°15'14
min. Earth dist.	-10556 Nov 21 j 10:24	16°♓58'27	17.19380 AU
direct	-10555 Feb 05 j 05:03	14°♓54'19	
evening set	-10555 May 12 j 17:45	18°♓27'36	
max. Earth dist.	-10555 May 27 j 18:58	19°♓24'42	19.19251 AU
conjunction	-10555 May 29 j 00:16	19°♓29'22	-0°10'45
minimum elong	-10555 May 29 j 00:16	19°♓29'22	0°10'54
behind sun begin	-10555 May 28 j 19:12	19°♓28'35	
behind sun end	-10555 May 29 j 05:20	19°♓30'09	
morning rise	-10555 Jun 14 j 02:20	20°♓30'30	
retrograde	-10555 Sep 13 j 00:07	23°♓53'35	
opposition	-10555 Nov 25 j 11:57	21°♓51'26	-0°08'51
min. Earth dist.	-10555 Nov 26 j 13:36	21°♓48'40	17.19366 AU
direct	-10554 Feb 10 j 10:27	19°♓44'28	
evening set	-10554 May 17 j 21:45	23°♓17'38	
max. Earth dist.	-10554 Jun 02 j 00:03	24°♓14'57	19.19572 AU
conjunction	-10554 Jun 03 j 02:59	24°♓19'15	-0°05'02
minimum elong	-10554 Jun 03 j 02:58	24°♓19'15	0°05'09
behind sun begin	-10554 Jun 02 j 20:31	24°♓18'14	
behind sun end	-10554 Jun 03 j 09:25	24°♓20'15	
morning rise	-10554 Jun 19 j 03:49	25°♓20'13	
retrograde	-10554 Sep 18 j 01:52	28°♓43'17	
opposition	-10554 Nov 30 j 16:07	26°♓41'08	-0°02'25
min. Earth dist.	-10554 Dec 01 j 15:09	26°♓38'38	17.20010 AU
direct	-10553 Feb 15 j 18:12	24°♓34'15	
asc. node	-10553 Apr 16 j 08:55	26°♓04'01	
evening set	-10553 May 23 j 01:07	28°♓07'08	
max. Earth dist.	-10553 Jun 07 j 04:21	29°♓04'39	19.20561 AU
conjunction	-10553 Jun 08 j 05:02	29°♓08'35	0°00'50
minimum elong	-10553 Jun 08 j 05:01	29°♓08'35	0°00'47
behind sun begin	-10553 Jun 07 j 22:23	29°♓07'33	
behind sun end	-10553 Jun 08 j 11:40	29°♓09'37	
	-10553 Jun 21 j 16:33	0°♈	
morning rise	-10553 Jun 24 j 04:37	0°♈09'24	
retrograde	-10553 Sep 23 j 01:23	3°♈32'24	
opposition	-10553 Dec 05 j 20:34	1°♈30'15	0°04'02
min. Earth dist.	-10553 Dec 06 j 18:27	1°♈27'53	17.21350 AU
	-10552 Jan 13 j 16:21	30°℞♓	
direct	-10552 Feb 20 j 22:59	29°♓23'30	
	-10552 Mar 29 j 08:21	0°♈	
evening set	-10552 May 27 j 03:59	2°♈56'01	
max. Earth dist.	-10552 Jun 11 j 08:06	3°♈53'40	19.22262 AU
conjunction	-10552 Jun 12 j 06:30	3°♈57'15	0°06'36
minimum elong	-10552 Jun 12 j 06:29	3°♈57'15	0°06'35
behind sun begin	-10552 Jun 12 j 00:16	3°♈56'16	
behind sun end	-10552 Jun 12 j 12:43	3°♈58'13	
morning rise	-10552 Jun 28 j 04:56	4°♈57'53	
retrograde	-10552 Sep 27 j 03:11	8°♈20'45	
opposition	-10552 Dec 10 j 00:56	6°♈18'39	0°10'25
min. Earth dist.	-10552 Dec 10 j 19:32	6°♈16'38	17.23394 AU
direct	-10551 Feb 25 j 05:39	4°♈12'07	
evening set	-10551 Jun 01 j 06:11	7°♈44'07	

Attention, astronomical year style is used: The year -10551 in astronomical counting style is the year 10552 BCE in historical counting style.

conjunction	-10551 Jun	17 j 07:27	8°♈45'08	0°12'16
minimum elong	-10551 Jun	17 j 07:26	8°♈45'08	0°12'18
behind sun begin	-10551 Jun	17 j 03:00	8°♈44'26	
behind sun end	-10551 Jun	17 j 11:52	8°♈45'49	
max. Earth dist.	-10551 Jun	16 j 12:08	8°♈42'03	19.24666 AU
morning rise	-10551 Jul	03 j 04:36	9°♈45'33	
retrograde	-10551 Oct	02 j 03:07	13°♈08'16	
opposition	-10551 Dec	15 j 05:38	11°♈06'15	0°16'44
min. Earth dist.	-10551 Dec	15 j 22:48	11°♈04'24	17.26152 AU
direct	-10550 Mar	02 j 09:46	9°♈00'00	
evening set	-10550 Jun	06 j 07:37	12°♈31'23	
conjunction	-10550 Jun	22 j 07:28	13°♈32'08	0°17'51
minimum elong	-10550 Jun	22 j 07:28	13°♈32'08	0°17'56
max. Earth dist.	-10550 Jun	21 j 14:19	13°♈29'25	19.27778 AU
morning rise	-10550 Jul	08 j 03:39	14°♈32'22	
retrograde	-10550 Oct	07 j 04:43	17°♈54'53	
opposition	-10550 Dec	20 j 10:04	15°♈52'58	0°22'55
min. Earth dist.	-10550 Dec	20 j 23:42	15°♈51'30	17.29582 AU
direct	-10549 Mar	07 j 15:12	13°♈47'03	
evening set	-10549 Jun	11 j 08:20	17°♈17'43	
conjunction	-10549 Jun	27 j 07:04	18°♈18'13	0°23'19
minimum elong	-10549 Jun	27 j 07:03	18°♈18'13	0°23'26
max. Earth dist.	-10549 Jun	26 j 17:27	18°♈16'03	19.31523 AU
morning rise	-10549 Jul	13 j 02:02	19°♈18'12	
retrograde	-10549 Oct	12 j 04:19	22°♈40'28	
opposition	-10549 Dec	25 j 14:24	20°♈38'42	0°28'55
min. Earth dist.	-10549 Dec	26 j 02:38	20°♈37'24	17.33620 AU
direct	-10548 Mar	11 j 18:59	18°♈33'10	
evening set	-10548 Jun	15 j 08:29	22°♈03'01	
conjunction	-10548 Jul	01 j 05:48	23°♈03'14	0°28'35
minimum elong	-10548 Jul	01 j 05:47	23°♈03'14	0°28'47
max. Earth dist.	-10548 Jun	30 j 17:56	23°♈01'21	19.35847 AU
morning rise	-10548 Jul	16 j 23:55	24°♈02'58	
retrograde	-10548 Oct	16 j 05:13	27°♈24'57	
opposition	-10548 Dec	29 j 18:36	25°♈23'19	0°34'42
min. Earth dist.	-10548 Dec	30 j 03:27	25°♈22'23	17.38200 AU
direct	-10547 Mar	16 j 23:33	23°♈18'11	
evening set	-10547 Jun	20 j 07:33	26°♈47'07	
conjunction	-10547 Jul	06 j 03:49	27°♈47'02	0°33'40
minimum elong	-10547 Jul	06 j 03:48	27°♈47'02	0°33'53
max. Earth dist.	-10547 Jul	05 j 19:43	27°♈45'45	19.40663 AU
morning rise	-10547 Jul	21 j 20:48	28°♈46'30	
	-10547 Aug	11 j 15:17	0°♉	
retrograde	-10547 Oct	21 j 04:08	2°♉08'10	
opposition	-10546 Jan	03 j 22:46	0°♉06'41	0°40'13
min. Earth dist.	-10546 Jan	04 j 05:54	0°♉05'56	17.43237 AU
	-10546 Jan	06 j 14:01	30°℞♈	
direct	-10546 Mar	22 j 03:35	28°♈01'59	
	-10546 May	30 j 08:11	0°♉	
evening set	-10546 Jun	25 j 06:04	1°♉29'52	
conjunction	-10546 Jul	11 j 01:00	2°♉29'29	0°38'29
minimum elong	-10546 Jul	11 j 01:00	2°♉29'29	0°38'45
max. Earth dist.	-10546 Jul	10 j 18:25	2°♉28'26	19.45910 AU
morning rise	-10546 Jul	26 j 17:18	3°♉28'41	
retrograde	-10546 Oct	26 j 03:38	6°♉49'58	
opposition	-10545 Jan	09 j 02:17	4°♉48'37	0°45'26
min. Earth dist.	-10545 Jan	09 j 06:20	4°♉48'11	17.48678 AU
direct	-10545 Mar	27 j 07:02	2°♉44'18	
evening set	-10545 Jun	30 j 03:27	6°♉11'06	
conjunction	-10545 Jul	15 j 21:30	7°♉10'23	0°43'01
minimum elong	-10545 Jul	15 j 21:30	7°♉10'23	0°43'19
max. Earth dist.	-10545 Jul	15 j 18:32	7°♉09'55	19.51515 AU
morning rise	-10545 Jul	31 j 12:51	8°♉09'19	
retrograde	-10545 Oct	31 j 01:31	11°♉30'09	
opposition	-10544 Jan	14 j 05:31	9°♉28'55	0°50'18
min. Earth dist.	-10544 Jan	14 j 07:37	9°♉28'42	17.54434 AU
direct	-10544 Mar	31 j 10:43	7°♉25'02	
evening set	-10544 Jul	04 j 00:03	10°♉50'37	
conjunction	-10544 Jul	19 j 16:55	11°♉49'35	0°47'14
minimum elong	-10544 Jul	19 j 16:55	11°♉49'35	0°47'35
max. Earth dist.	-10544 Jul	19 j 15:24	11°♉49'21	19.57417 AU
morning rise	-10544 Aug	04 j 07:42	12°♉48'14	
	-10544 Sep	14 j 01:02	15°♉	
retrograde	-10544 Nov	03 j 23:13	16°♉08'37	
	-10544 Dec	27 j 16:39	15°℞♉	
opposition	-10543 Jan	18 j 08:13	14°♉07'27	0°54'49
min. Earth dist.	-10543 Jan	18 j 07:32	14°♉07'31	17.60480 AU
direct	-10543 Apr	05 j 12:58	12°♉03'58	
	-10543 Jul	01 j 00:17	15°♉	
evening set	-10543 Jul	08 j 19:32	15°♉28'17	
conjunction	-10543 Jul	24 j 11:39	16°♉26'55	0°51'07
minimum elong	-10543 Jul	24 j 11:39	16°♉26'55	0°51'31
max. Earth dist.	-10543 Jul	24 j 13:42	16°♉27'14	19.63590 AU
morning rise	-10543 Aug	09 j 01:41	17°♉25'17	
retrograde	-10543 Nov	08 j 19:35	20°♉45'08	
opposition	-10542 Jan	23 j 10:18	18°♉44'03	0°58'56
min. Earth dist.	-10542 Jan	23 j 07:14	18°♉44'22	17.66771 AU
direct	-10542 Apr	10 j 15:31	16°♉40'58	
evening set	-10542 Jul	13 j 14:00	20°♉03'55	
conjunction	-10542 Jul	29 j 05:10	21°♉02'14	0°54'39
minimum elong	-10542 Jul	29 j 05:10	21°♉02'14	0°55'04
max. Earth dist.	-10542 Jul	29 j 08:50	21°♉02'48	19.70003 AU
morning rise	-10542 Aug	13 j 18:51	22°♉00'19	
retrograde	-10542 Nov	13 j 15:30	25°♉19'36	
opposition	-10541 Jan	28 j 11:38	23°♉18'34	1°02'38
min. Earth dist.	-10541 Jan	28 j 06:09	23°♉19'09	17.73310 AU
direct	-10541 Apr	15 j 15:31	21°♉15'51	
evening set	-10541 Jul	18 j 07:21	24°♉37'26	
conjunction	-10541 Aug	02 j 21:56	25°♉35'25	0°57'48
minimum elong	-10541 Aug	02 j 21:55	25°♉35'25	0°58'16
max. Earth dist.	-10541 Aug	03 j 05:03	25°♉36'31	19.76652 AU
morning rise	-10541 Aug	18 j 11:02	26°♉33'12	
retrograde	-10541 Nov	18 j 10:18	29°♉51'53	
opposition	-10540 Feb	02 j 12:01	27°♉50'55	1°05'55
min. Earth dist.	-10540 Feb	02 j 03:44	27°♉51'47	17.80069 AU
direct	-10540 Apr	19 j 15:51	25°♉48'35	
evening set	-10540 Jul	21 j 23:47	29°♉08'44	
	-10540 Aug	04 j 20:30	0°♊	
conjunction	-10540 Aug	06 j 13:33	0°♊06'23	1°00'34
minimum elong	-10540 Aug	06 j 13:32	0°♊06'23	1°01'03
max. Earth dist.	-10540 Aug	06 j 22:34	0°♊07'47	19.83529 AU
morning rise	-10540 Aug	22 j 02:27	1°♊03'54	
retrograde	-10540 Nov	22 j 04:29	4°♊21'57	
opposition	-10539 Feb	06 j 11:50	2°♊21'03	1°08'46
min. Earth dist.	-10539 Feb	06 j 01:19	2°♊22'08	17.87082 AU
direct	-10539 Apr	24 j 13:12	0°♊19'05	
evening set	-10539 Jul	26 j 14:56	3°♊37'48	
conjunction	-10539 Aug	11 j 04:16	4°♊35'08	1°02'57
minimum elong	-10539 Aug	11 j 04:16	4°♊35'08	1°03'27
max. Earth dist.	-10539 Aug	11 j 16:43	4°♊37'03	19.90657 AU
morning rise	-10539 Aug	26 j 16:50	5°♊32'22	
retrograde	-10539 Nov	26 j 22:44	8°♊49'48	

Attention, astronomical year style is used: The year -10538 in astronomical counting style is the year 10539 BCE in historical counting style.

opposition	-10538 Feb 11 j 10:41	6°♊48'58	1°11'11
min. Earth dist.	-10538 Feb 10 j 20:56	6°♊50'23	17.94324 AU
direct	-10538 Apr 29 j 11:32	4°♊47'25	
evening set	-10538 Jul 31 j 05:22	8°♊04'41	
conjunction	-10538 Aug 15 j 18:07	9°♊01'42	1°04'57
minimum elong	-10538 Aug 15 j 18:07	9°♊01'42	1°05'28
max. Earth dist.	-10538 Aug 16 j 08:37	9°♊03'56	19.98005 AU
morning rise	-10538 Aug 31 j 06:39	9°♊58'41	
retrograde	-10538 Dec 01 j 15:23	13°♊15'28	
opposition	-10537 Feb 16 j 08:35	11°♊14'44	1°13'09
min. Earth dist.	-10537 Feb 15 j 17:03	11°♊16'20	18.01790 AU
direct	-10537 May 04 j 06:03	9°♊13'37	
evening set	-10537 Aug 04 j 18:42	12°♊29'28	
conjunction	-10537 Aug 20 j 07:12	13°♊26'11	1°06'32
minimum elong	-10537 Aug 20 j 07:12	13°♊26'11	1°07'05
max. Earth dist.	-10537 Aug 21 j 00:38	13°♊28'52	20.05557 AU
morning rise	-10537 Sep 04 j 19:37	14°♊22'55	
retrograde	-10537 Dec 06 j 09:21	17°♊39'02	
min. Earth dist.	-10536 Feb 20 j 10:53	15°♊40'22	18.09412 AU
opposition	-10536 Feb 21 j 05:38	15°♊38'27	1°14'40
direct	-10536 May 08 j 02:33	13°♊37'48	
evening set	-10536 Aug 08 j 07:09	16°♊52'13	
conjunction	-10536 Aug 23 j 19:17	17°♊48'39	1°07'44
minimum elong	-10536 Aug 23 j 19:17	17°♊48'39	1°08'19
max. Earth dist.	-10536 Aug 24 j 14:47	17°♊51'38	20.13232 AU
morning rise	-10536 Sep 08 j 07:49	18°♊45'08	
retrograde	-10536 Dec 10 j 00:32	22°♊00'39	
min. Earth dist.	-10535 Feb 24 j 05:59	20°♊02'15	18.17139 AU
opposition	-10535 Feb 25 j 02:04	20°♊00'12	1°15'45
direct	-10535 May 12 j 19:16	18°♊00'01	
evening set	-10535 Aug 12 j 18:46	21°♊13'03	
conjunction	-10535 Aug 28 j 06:50	22°♊09'12	1°08'32
minimum elong	-10535 Aug 28 j 06:50	22°♊09'12	1°09'07
max. Earth dist.	-10535 Aug 29 j 04:46	22°♊12'32	20.20980 AU
morning rise	-10535 Sep 12 j 19:27	23°♊05'27	
retrograde	-10535 Dec 14 j 17:37	26°♊20'19	
opposition	-10534 Mar 01 j 21:22	24°♊20'02	1°16'23
min. Earth dist.	-10534 Feb 28 j 22:23	24°♊22'22	18.24884 AU
direct	-10534 May 17 j 14:08	22°♊20'18	
evening set	-10534 Aug 17 j 05:39	25°♊31'58	
conjunction	-10534 Sep 01 j 17:36	26°♊27'51	1°08'56
minimum elong	-10534 Sep 01 j 17:36	26°♊27'51	1°09'32
max. Earth dist.	-10534 Sep 02 j 17:19	26°♊31'26	20.28692 AU
morning rise	-10534 Sep 17 j 06:32	27°♊23'53	
	-10534 Nov 10 j 10:23	0°♋	
retrograde	-10534 Dec 19 j 07:32	0°♋38'07	
	-10533 Jan 28 j 13:15	30°℞♊	
opposition	-10533 Mar 06 j 16:01	28°♊37'59	1°16'35
min. Earth dist.	-10533 Mar 05 j 16:20	28°♊40'23	18.32562 AU
direct	-10533 May 22 j 05:05	26°♊38'42	
evening set	-10533 Aug 21 j 15:46	29°♊49'01	
	-10533 Aug 24 j 18:05	0°♋	
conjunction	-10533 Sep 06 j 03:46	0°♋44'39	1°08'57
minimum elong	-10533 Sep 06 j 03:46	0°♋44'39	1°09'32
max. Earth dist.	-10533 Sep 07 j 05:13	0°♋48'29	20.36299 AU
morning rise	-10533 Sep 21 j 16:57	1°♋40'28	
retrograde	-10533 Dec 23 j 22:45	4°♋54'05	
min. Earth dist.	-10532 Mar 09 j 07:22	2°♋56'44	18.40081 AU
opposition	-10532 Mar 10 j 09:35	2°♋54'05	1°16'21
direct	-10532 May 25 j 22:32	0°♋55'13	
evening set	-10532 Aug 25 j 01:16	4°♋04'14	

conjunction	-10532 Sep 09 j 13:19	4°♋59'38	1°08'35
minimum elong	-10532 Sep 09 j 13:19	4°♋59'38	1°09'10
max. Earth dist.	-10532 Sep 10 j 16:16	5°♋03'40	20.43705 AU
morning rise	-10532 Sep 25 j 02:57	5°♋55'15	
retrograde	-10532 Dec 27 j 11:30	9°♋08'15	
min. Earth dist.	-10531 Mar 14 j 00:07	7°♋11'02	18.47379 AU
opposition	-10531 Mar 15 j 02:34	7°♋08'21	1°15'42
direct	-10531 May 30 j 11:55	5°♋09'53	
evening set	-10531 Aug 29 j 09:58	8°♋17'36	
conjunction	-10531 Sep 13 j 22:18	9°♋12'47	1°07'50
minimum elong	-10531 Sep 13 j 22:18	9°♋12'47	1°08'26
max. Earth dist.	-10531 Sep 15 j 02:23	9°♋16'59	20.50864 AU
morning rise	-10531 Sep 29 j 12:25	10°♋08'13	
retrograde	-10530 Jan 01 j 01:12	13°♋20'35	
opposition	-10530 Mar 19 j 18:27	11°♋20'48	1°14'39
min. Earth dist.	-10530 Mar 18 j 13:52	11°♋23'40	18.54383 AU
direct	-10530 Jun 04 j 03:16	9°♋22'39	
evening set	-10530 Sep 02 j 18:09	12°♋29'09	
conjunction	-10530 Sep 18 j 06:45	13°♋24'07	1°06'44
minimum elong	-10530 Sep 18 j 06:45	13°♋24'07	1°07'19
max. Earth dist.	-10530 Sep 19 j 12:00	13°♋28'28	20.57692 AU
morning rise	-10530 Oct 03 j 21:28	14°♋19'23	
retrograde	-10529 Jan 05 j 12:24	17°♋31'08	
min. Earth dist.	-10529 Mar 23 j 05:02	15°♋34'15	18.61048 AU
opposition	-10529 Mar 24 j 09:26	15°♋31'24	1°13'12
direct	-10529 Jun 08 j 15:15	13°♋33'33	
evening set	-10529 Sep 07 j 01:34	16°♋38'51	
conjunction	-10529 Sep 22 j 14:36	17°♋33'38	1°05'17
minimum elong	-10529 Sep 22 j 14:36	17°♋33'38	1°05'53
max. Earth dist.	-10529 Sep 23 j 20:34	17°♋38'04	20.64190 AU
morning rise	-10529 Oct 08 j 05:58	18°♋28'45	
retrograde	-10528 Jan 10 j 00:36	21°♋39'53	
opposition	-10528 Mar 27 j 23:31	19°♋40'12	1°11'23
min. Earth dist.	-10528 Mar 26 j 17:14	19°♋43'14	18.67369 AU
direct	-10528 Jun 12 j 04:15	17°♋42'36	
evening set	-10528 Sep 10 j 08:14	20°♋46'45	
conjunction	-10528 Sep 25 j 21:43	21°♋41'21	1°03'31
minimum elong	-10528 Sep 25 j 21:43	21°♋41'21	1°04'05
max. Earth dist.	-10528 Sep 27 j 04:56	21°♋45'57	20.70333 AU
morning rise	-10528 Oct 11 j 13:49	22°♋36'20	
retrograde	-10527 Jan 13 j 10:25	25°♋46'53	
min. Earth dist.	-10527 Mar 31 j 06:50	23°♋50'13	18.73353 AU
opposition	-10527 Apr 01 j 12:53	23°♋47'12	1°09'13
direct	-10527 Jun 16 j 14:51	21°♋49'51	
evening set	-10527 Sep 14 j 14:25	24°♋52'54	
conjunction	-10527 Sep 30 j 04:28	25°♋47'21	1°01'26
minimum elong	-10527 Sep 30 j 04:29	25°♋47'21	1°01'59
max. Earth dist.	-10527 Oct 01 j 12:17	25°♋52'01	20.76165 AU
morning rise	-10527 Oct 15 j 21:23	26°♋42'12	
retrograde	-10526 Jan 17 j 21:23	29°♋52'11	
min. Earth dist.	-10526 Apr 04 j 17:20	27°♋55'41	18.79034 AU
opposition	-10526 Apr 06 j 01:04	27°♋52'30	1°06'43
direct	-10526 Jun 21 j 01:41	25°♋55'22	
evening set	-10526 Sep 18 j 20:06	28°♋57'24	
conjunction	-10526 Oct 04 j 10:45	29°♋51'43	0°59'03
minimum elong	-10526 Oct 04 j 10:46	29°♋51'43	0°59'35
max. Earth dist.	-10526 Oct 05 j 19:43	29°♋56'32	20.81689 AU
	-10526 Oct 06 j 19:28	0°♌	
morning rise	-10526 Oct 20 j 04:30	0°♌46'28	
retrograde	-10525 Jan 22 j 05:55	3°♌55'55	
min. Earth dist.	-10525 Apr 09 j 05:10	1°♌59'24	18.84422 AU

Attention, astronomical year style is used: The year -10525 in astronomical counting style is the year 10526 BCE in historical counting style.

opposition	-10525 Apr 10 j 12:36	1°♌56'15	1°03'54	
	-10525 Jun 20 j 06:56	30°℞♋		
direct	-10525 Jun 25 j 10:25	29°♋59'20		
	-10525 Jun 30 j 12:25	0°♌		
evening set	-10525 Sep 23 j 01:12	3°♌00'24		
conjunction	-10525 Oct 08 j 16:31	3°♌54'37	0°56'24	
minimum elong	-10525 Oct 08 j 16:32	3°♌54'37	0°56'55	
max. Earth dist.	-10525 Oct 10 j 01:52	3°♌59'28	20.86942 AU	
morning rise	-10525 Oct 24 j 11:08	4°♌49'16		
retrograde	-10524 Jan 26 j 16:11	7°♌58'14		
opposition	-10524 Apr 13 j 23:15	5°♌58'36	1°00'48	
min. Earth dist.	-10524 Apr 12 j 14:18	6°♌01'54	18.89536 AU	
direct	-10524 Jun 28 j 19:25	4°♌01'53		
evening set	-10524 Sep 26 j 06:01	7°♌02'07		
conjunction	-10524 Oct 11 j 22:05	7°♌56'13	0°53'28	
minimum elong	-10524 Oct 11 j 22:05	7°♌56'13	0°53'59	
max. Earth dist.	-10524 Oct 13 j 08:29	8°♌01'12	20.91908 AU	
morning rise	-10524 Oct 27 j 17:37	8°♌50'49		
retrograde	-10523 Jan 29 j 23:37	11°♌59'20		
min. Earth dist.	-10523 Apr 17 j 00:50	10°♌03'01	18.94359 AU	
opposition	-10523 Apr 18 j 09:17	9°♌59'46	0°57'24	
direct	-10523 Jul 03 j 02:20	8°♌03'16		
evening set	-10523 Sep 30 j 10:28	11°♌02'42		
conjunction	-10523 Oct 16 j 03:22	11°♌56'44	0°50'18	
minimum elong	-10523 Oct 16 j 03:22	11°♌56'44	0°50'47	
max. Earth dist.	-10523 Oct 17 j 13:47	12°♌01'42	20.96587 AU	
morning rise	-10523 Oct 31 j 23:56	12°♌51'16		
	-10523 Dec 15 j 02:16	15°♌		
retrograde	-10522 Feb 03 j 09:43	15°♌59'23		
	-10522 Mar 27 j 12:26	15°℞♌		
min. Earth dist.	-10522 Apr 21 j 09:05	14°♌03'14	18.98866 AU	
opposition	-10522 Apr 22 j 18:33	13°♌59'53	0°53'45	
direct	-10522 Jul 07 j 09:36	12°♌03'36		
	-10522 Oct 03 j 22:08	15°♌		
evening set	-10522 Oct 04 j 14:47	15°♌02'20		
conjunction	-10522 Oct 20 j 08:31	15°♌56'19	0°46'54	
minimum elong	-10522 Oct 20 j 08:31	15°♌56'19	0°47'22	
max. Earth dist.	-10522 Oct 21 j 19:36	16°♌01'22	21.00908 AU	
morning rise	-10522 Nov 05 j 06:03	16°♌50'49		
retrograde	-10521 Feb 07 j 16:17	19°♌58'34		
min. Earth dist.	-10521 Apr 25 j 18:38	18°♌02'24	19.02997 AU	
opposition	-10521 Apr 27 j 03:10	17°♌59'09	0°49'51	
direct	-10521 Jul 11 j 15:18	16°♌03'04		
evening set	-10521 Oct 08 j 18:54	19°♌01'12		
conjunction	-10521 Oct 24 j 13:31	19°♌55'07	0°43'17	
minimum elong	-10521 Oct 24 j 13:31	19°♌55'07	0°43'42	
max. Earth dist.	-10521 Oct 26 j 00:09	20°♌00'06	21.04851 AU	
morning rise	-10521 Nov 09 j 12:07	20°♌49'36		
retrograde	-10520 Feb 12 j 01:50	23°♌57'02		
min. Earth dist.	-10520 Apr 29 j 02:14	22°♌01'00	19.06723 AU	
opposition	-10520 Apr 30 j 11:17	21°♌57'42	0°45'43	
direct	-10520 Jul 14 j 21:06	20°♌01'48		
evening set	-10520 Oct 11 j 22:52	22°♌59'22		
conjunction	-10520 Oct 27 j 18:26	23°♌53'17	0°39'28	
minimum elong	-10520 Oct 27 j 18:26	23°♌53'17	0°39'52	
max. Earth dist.	-10520 Oct 29 j 05:22	23°♌58'16	21.08341 AU	
morning rise	-10520 Nov 12 j 18:05	24°♌47'45		
retrograde	-10519 Feb 15 j 08:29	27°♌54'54		
min. Earth dist.	-10519 May 03 j 11:15	25°♌58'49	19.09967 AU	
opposition	-10519 May 04 j 18:59	25°♌55'38	0°41'23	
direct	-10519 Jul 19 j 02:11	23°♌59'53		
evening set	-10519 Oct 16 j 03:01	26°♌56'59		
conjunction	-10519 Oct 31 j 23:33	27°♌50'53	0°35'28	
minimum elong	-10519 Oct 31 j 23:33	27°♌50'53	0°35'50	
max. Earth dist.	-10519 Nov 02 j 09:23	27°♌55'43	21.11338 AU	
morning rise	-10519 Nov 17 j 00:19	28°♌45'22		
	-10519 Dec 10 j 17:46	0°♍		
retrograde	-10518 Feb 19 j 17:27	1°♍52'16		
	-10518 May 06 j 04:20	30°℞♌		
min. Earth dist.	-10518 May 07 j 18:21	29°♌56'12	19.12689 AU	
opposition	-10518 May 09 j 01:58	29°♌53'02	0°36'52	
direct	-10518 Jul 23 j 07:02	27°♌57'23		
	-10518 Oct 03 j 09:55	0°♍		
evening set	-10518 Oct 20 j 07:11	0°♍54'05		
conjunction	-10518 Nov 05 j 04:43	1°♍48'00	0°31'18	
minimum elong	-10518 Nov 05 j 04:43	1°♍48'00	0°31'38	
max. Earth dist.	-10518 Nov 06 j 14:13	1°♍52'46	21.13766 AU	
morning rise	-10518 Nov 21 j 06:32	2°♍42'30		
retrograde	-10517 Feb 23 j 23:55	5°♍49'10		
min. Earth dist.	-10517 May 12 j 02:44	3°♍52'58	19.14820 AU	
opposition	-10517 May 13 j 08:42	3°♍49'58	0°32'11	
direct	-10517 Jul 27 j 11:30	1°♍54'22		
evening set	-10517 Oct 24 j 11:13	4°♍50'44		
conjunction	-10517 Nov 09 j 09:47	5°♍44'40	0°27'00	
minimum elong	-10517 Nov 09 j 09:47	5°♍44'40	0°27'19	
max. Earth dist.	-10517 Nov 10 j 17:45	5°♍49'13	21.15610 AU	
morning rise	-10517 Nov 25 j 12:44	6°♍39'12		
retrograde	-10516 Feb 28 j 08:36	9°♍45'41		
min. Earth dist.	-10516 May 15 j 09:26	7°♍49'25	19.16356 AU	
opposition	-10516 May 16 j 15:01	7°♍46'27	0°27'21	
direct	-10516 Jul 30 j 16:17	5°♍50'51		
evening set	-10516 Oct 27 j 15:26	8°♍46'56		
conjunction	-10516 Nov 12 j 15:05	9°♍40'55	0°22'36	
minimum elong	-10516 Nov 12 j 15:05	9°♍40'55	0°22'51	
max. Earth dist.	-10516 Nov 13 j 22:28	9°♍45'22	21.16841 AU	
morning rise	-10516 Nov 28 j 19:07	10°♍35'31		
retrograde	-10515 Mar 03 j 14:33	13°♍41'47		
opposition	-10515 May 20 j 20:51	11°♍42'30	0°22'25	
min. Earth dist.	-10515 May 19 j 17:06	11°♍45'17	19.17284 AU	
direct	-10515 Aug 03 j 19:52	9°♍46'51		
evening set	-10515 Oct 31 j 19:44	12°♍42'43		
conjunction	-10515 Nov 16 j 20:28	13°♍36'46	0°18'05	
minimum elong	-10515 Nov 16 j 20:28	13°♍36'46	0°18'19	
max. Earth dist.	-10515 Nov 18 j 02:05	13°♍40'57	21.17497 AU	
morning rise	-10515 Dec 03 j 01:41	14°♍31'26		
retrograde	-10514 Mar 07 j 22:55	17°♍37'33		
min. Earth dist.	-10514 May 23 j 23:11	15°♍40'54	19.17654 AU	
opposition	-10514 May 25 j 02:16	15°♍38'10	0°17'23	
direct	-10514 Aug 08 j 00:39	13°♍42'26		
evening set	-10514 Nov 05 j 00:08	16°♍38'10		
conjunction	-10514 Nov 21 j 01:57	17°♍32'18	0°13'31	
minimum elong	-10514 Nov 21 j 01:57	17°♍32'18	0°13'41	
behind sun begin	-10514 Nov 20 j 22:23	17°♍31'48		
behind sun end	-10514 Nov 21 j 05:31	17°♍32'47		
max. Earth dist.	-10514 Nov 22 j 06:57	17°♍36'23	21.17594 AU	
morning rise	-10514 Dec 07 j 08:10	18°♍27'02		
retrograde	-10513 Mar 12 j 04:33	21°♍33'02		
min. Earth dist.	-10513 May 28 j 06:02	19°♍36'07	19.17495 AU	
opposition	-10513 May 29 j 07:18	19°♍33'33	0°12'17	
direct	-10513 Aug 12 j 03:30	17°♍37'43		
evening set	-10513 Nov 09 j 04:41	20°♍33'24		

Attention, astronomical year style is used: The year -10513 in astronomical counting style is the year 10514 BCE in historical counting style.

conjunction	-10513 Nov 25 j 07:34	21°♍27'37	0°08'53
minimum elong	-10513 Nov 25 j 07:33	21°♍27'37	0°09'02
behind sun begin	-10513 Nov 25 j 01:54	21°♍26'50	
behind sun end	-10513 Nov 25 j 13:13	21°♍28'23	
max. Earth dist.	-10513 Nov 26 j 10:50	21°♍31'27	21.17213 AU
morning rise	-10513 Dec 11 j 14:55	22°♍22'26	
retrograde	-10512 Mar 15 j 12:25	25°♍28'23	
min. Earth dist.	-10512 May 31 j 11:30	23°♍31'17	19.16886 AU
opposition	-10512 Jun 01 j 12:04	23°♍28'48	0°07'08
direct	-10512 Aug 15 j 07:50	21°♍32'49	
evening set	-10512 Nov 12 j 09:27	24°♍28'33	
conjunction	-10512 Nov 28 j 13:28	25°♍22'53	0°04'14
minimum elong	-10512 Nov 28 j 13:28	25°♍22'53	0°04'20
behind sun begin	-10512 Nov 28 j 06:55	25°♍21'59	
behind sun end	-10512 Nov 28 j 20:01	25°♍23'47	
max. Earth dist.	-10512 Nov 29 j 16:05	25°♍26'38	21.16380 AU
morning rise	-10512 Dec 14 j 21:51	26°♍17'49	
retrograde	-10511 Mar 19 j 18:40	29°♍23'45	
opposition	-10511 Jun 05 j 16:43	27°♍24'05	0°01'57
min. Earth dist.	-10511 Jun 04 j 17:58	27°♍26'24	19.15837 AU
direct	-10511 Aug 19 j 10:41	25°♍27'59	
desc. node	-10511 Oct 19 j 16:03	26°♍58'29	
evening set	-10511 Nov 16 j 14:40	28°♍23'51	
conjunction	-10511 Dec 02 j 19:44	29°♍18'18	-0°00'34
minimum elong	-10511 Dec 02 j 19:45	29°♍18'18	0°00'30
behind sun begin	-10511 Dec 02 j 13:06	29°♍17'24	
behind sun end	-10511 Dec 03 j 02:24	29°♍19'13	
max. Earth dist.	-10511 Dec 03 j 20:22	29°♍21'46	21.15137 AU
	-10511 Dec 15 j 04:32	0°♎	
morning rise	-10511 Dec 19 j 05:15	0°♎13'22	
retrograde	-10510 Mar 24 j 02:30	3°♎19'21	
opposition	-10510 Jun 09 j 21:02	1°♎19'37	-0°03'16
min. Earth dist.	-10510 Jun 08 j 23:13	1°♎21'50	19.14389 AU
	-10510 Jul 15 j 20:04	30°℞♍	
direct	-10510 Aug 23 j 14:14	29°♍23'22	
	-10510 Sep 30 j 14:34	0°♎	
evening set	-10510 Nov 20 j 20:14	2°♎19'29	
conjunction	-10510 Dec 07 j 02:27	3°♎14'05	-0°05'19
minimum elong	-10510 Dec 07 j 02:26	3°♎14'05	0°05'17
behind sun begin	-10510 Dec 06 j 19:58	3°♎13'12	
behind sun end	-10510 Dec 07 j 08:53	3°♎14'58	
max. Earth dist.	-10510 Dec 08 j 02:09	3°♎17'26	21.13483 AU
morning rise	-10510 Dec 23 j 12:51	4°♎09'17	
retrograde	-10509 Mar 28 j 09:22	7°♎15'22	
min. Earth dist.	-10509 Jun 13 j 05:35	5°♎17'37	19.12531 AU
opposition	-10509 Jun 14 j 01:30	5°♎15'35	-0°08'27
direct	-10509 Aug 27 j 17:22	3°♎19'14	
evening set	-10509 Nov 25 j 02:06	6°♎15'40	
conjunction	-10509 Dec 11 j 09:20	7°♎10'26	-0°09'59
minimum elong	-10509 Dec 11 j 09:20	7°♎10'25	0°10'00
behind sun begin	-10509 Dec 11 j 03:58	7°♎09'41	
behind sun end	-10509 Dec 11 j 14:42	7°♎11'10	
max. Earth dist.	-10509 Dec 12 j 06:50	7°♎13'27	21.11439 AU
morning rise	-10509 Dec 27 j 20:50	8°♎05'47	
retrograde	-10508 Mar 31 j 17:51	11°♎12'02	
min. Earth dist.	-10508 Jun 16 j 11:10	9°♎14'08	19.10277 AU
opposition	-10508 Jun 17 j 05:57	9°♎12'13	-0°13'38
direct	-10508 Aug 30 j 20:34	7°♎15'43	
evening set	-10508 Nov 28 j 08:42	10°♎12'35	
conjunction	-10508 Dec 14 j 17:03	11°♎07'32	-0°14'39
minimum elong	-10508 Dec 14 j 17:03	11°♎07'32	0°14'41
behind sun begin	-10508 Dec 14 j 14:25	11°♎07'10	
behind sun end	-10508 Dec 14 j 19:40	11°♎07'53	
max. Earth dist.	-10508 Dec 15 j 13:22	11°♎10'23	21.08969 AU
morning rise	-10508 Dec 31 j 05:25	12°♎03'03	
retrograde	-10507 Apr 05 j 01:19	15°♎09'30	
opposition	-10507 Jun 21 j 10:23	13°♎09'41	-0°18'46
min. Earth dist.	-10507 Jun 20 j 17:50	13°♎11'23	19.07585 AU
direct	-10507 Sep 04 j 00:09	11°♎13'03	
evening set	-10507 Dec 02 j 16:01	14°♎10'26	
conjunction	-10507 Dec 19 j 01:21	15°♎05'34	-0°19'15
minimum elong	-10507 Dec 19 j 01:21	15°♎05'34	0°19'21
max. Earth dist.	-10507 Dec 19 j 18:54	15°♎08'02	21.06066 AU
morning rise	-10506 Jan 04 j 14:43	16°♎01'16	
retrograde	-10506 Apr 09 j 10:53	19°♎07'59	
opposition	-10506 Jun 25 j 15:01	17°♎08'09	-0°23'50
min. Earth dist.	-10506 Jun 25 j 00:03	17°♎09'41	19.04444 AU
direct	-10506 Sep 08 j 04:02	15°♎11'19	
evening set	-10506 Dec 06 j 23:53	18°♎09'19	
conjunction	-10506 Dec 23 j 10:15	19°♎04'39	-0°23'47
minimum elong	-10506 Dec 23 j 10:15	19°♎04'39	0°23'55
max. Earth dist.	-10506 Dec 24 j 02:15	19°♎06'55	21.02672 AU
morning rise	-10505 Jan 09 j 00:19	20°♎00'33	
retrograde	-10505 Apr 13 j 18:55	23°♎07'33	
opposition	-10505 Jun 29 j 19:52	21°♎07'42	-0°28'48
min. Earth dist.	-10505 Jun 29 j 07:20	21°♎08'59	19.00798 AU
direct	-10505 Sep 12 j 07:51	19°♎10'41	
evening set	-10505 Dec 11 j 08:34	22°♎09'21	
conjunction	-10505 Dec 27 j 19:52	23°♎04'54	-0°28'14
minimum elong	-10505 Dec 27 j 19:51	23°♎04'54	0°28'24
max. Earth dist.	-10505 Dec 28 j 08:38	23°♎06'43	20.98783 AU
morning rise	-10504 Jan 13 j 10:51	24°♎00'59	
retrograde	-10504 Apr 17 j 05:26	27°♎08'20	
opposition	-10504 Jul 03 j 00:55	25°♎08'25	-0°33'40
min. Earth dist.	-10504 Jul 02 j 14:20	25°♎09'30	18.96647 AU
direct	-10504 Sep 15 j 13:12	23°♎11'09	
evening set	-10504 Dec 14 j 17:58	26°♎10'33	
conjunction	-10504 Dec 31 j 06:18	27°♎06'21	-0°32'33
minimum elong	-10504 Dec 31 j 06:18	27°♎06'21	0°32'46
max. Earth dist.	-10504 Dec 31 j 17:10	27°♎07'53	20.94358 AU
morning rise	-10503 Jan 16 j 21:56	28°♎02'39	
	-10503 Feb 25 j 18:14	0°♏	
retrograde	-10503 Apr 21 j 13:57	1°♏10'20	
	-10503 Jun 16 j 13:56	30°℞♎	
opposition	-10503 Jul 07 j 06:21	29°♎10'19	-0°38'22
min. Earth dist.	-10503 Jul 06 j 22:21	29°♎11'09	18.91952 AU
direct	-10503 Sep 19 j 17:37	27°♎12'46	
	-10503 Dec 15 j 05:52	0°♏	
evening set	-10503 Dec 19 j 04:11	0°♏12'58	
conjunction	-10502 Jan 04 j 17:21	1°♏09'00	-0°36'44
minimum elong	-10502 Jan 04 j 17:21	1°♏09'00	0°36'58
max. Earth dist.	-10502 Jan 05 j 00:41	1°♏10'02	20.89415 AU
morning rise	-10502 Jan 21 j 09:48	2°♏05'30	
retrograde	-10502 Apr 26 j 00:56	5°♏13'33	
opposition	-10502 Jul 11 j 11:55	3°♏13'26	-0°42'55
min. Earth dist.	-10502 Jul 11 j 06:04	3°♏14'02	18.86759 AU
direct	-10502 Sep 24 j 00:35	1°♏15'31	
evening set	-10502 Dec 23 j 15:00	4°♏16'34	
conjunction	-10501 Jan 09 j 05:09	5°♏12'52	-0°40'44
minimum elong	-10501 Jan 09 j 05:08	5°♏12'52	0°41'02
max. Earth dist.	-10501 Jan 09 j 10:39	5°♏13'39	20.83983 AU
morning rise	-10501 Jan 25 j 22:05	6°♏09'35	
retrograde	-10501 Apr 30 j 09:44	9°♏18'02	

Attention, astronomical year style is used: The year -10501 in astronomical counting style is the year 10502 BCE in historical counting style.

opposition	-10501 Jul 15 j 17:55	7°♏17'45	-0°47'15
min. Earth dist.	-10501 Jul 15 j 14:29	7°♏18'07	18.81109 AU
direct	-10501 Sep 28 j 06:16	5°♏19'28	
evening set	-10501 Dec 28 j 02:28	8°♏21'26	
conjunction	-10500 Jan 13 j 17:22	9°♏17'59	-0°44'33
minimum elong	-10500 Jan 13 j 17:21	9°♏17'59	0°44'52
max. Earth dist.	-10500 Jan 13 j 19:27	9°♏18'16	20.78147 AU
morning rise	-10500 Jan 30 j 11:03	10°♏14'56	
retrograde	-10500 May 03 j 20:56	13°♏23'48	
opposition	-10500 Jul 19 j 00:13	11°♏23'21	-0°51'23
min. Earth dist.	-10500 Jul 18 j 22:53	11°♏23'30	18.75093 AU
direct	-10500 Oct 01 j 14:01	9°♏24'39	
evening set	-10500 Dec 31 j 14:50	12°♏27'36	
conjunction	-10499 Jan 17 j 06:37	13°♏24'26	-0°48'10
minimum elong	-10499 Jan 17 j 06:37	13°♏24'25	0°48'32
max. Earth dist.	-10499 Jan 17 j 07:05	13°♏24'30	20.71958 AU
morning rise	-10499 Feb 03 j 00:40	14°♏21'36	
	-10499 Feb 14 j 17:59	15°♏	
retrograde	-10499 May 08 j 07:01	17°♏30'54	
opposition	-10499 Jul 23 j 06:50	15°♏30'18	-0°55'17
min. Earth dist.	-10499 Jul 23 j 07:46	15°♏30'12	18.68759 AU
	-10499 Aug 04 j 11:17	15°℞♏	
direct	-10499 Oct 05 j 21:26	13°♏31'11	
	-10499 Dec 05 j 07:49	15°♏	
evening set	-10498 Jan 05 j 04:06	16°♏35'11	
conjunction	-10498 Jan 21 j 20:28	17°♏32'17	-0°51'33
minimum elong	-10498 Jan 21 j 20:28	17°♏32'17	0°51'56
max. Earth dist.	-10498 Jan 21 j 17:28	17°♏31'51	20.65504 AU
morning rise	-10498 Feb 07 j 15:06	18°♏29'43	
retrograde	-10498 May 12 j 18:29	21°♏39'29	
opposition	-10498 Jul 27 j 14:01	19°♏38'44	-0°58'55
min. Earth dist.	-10498 Jul 27 j 16:57	19°♏38'25	18.62201 AU
direct	-10498 Oct 10 j 05:42	17°♏39'11	
evening set	-10497 Jan 09 j 17:55	20°♏44'18	
conjunction	-10497 Jan 26 j 11:04	21°♏41'41	-0°54'41
minimum elong	-10497 Jan 26 j 11:03	21°♏41'41	0°55'06
max. Earth dist.	-10497 Jan 26 j 06:42	21°♏41'03	20.58836 AU
morning rise	-10497 Feb 12 j 05:51	22°♏39'21	
retrograde	-10497 May 17 j 06:19	25°♏49'39	
opposition	-10497 Jul 31 j 21:44	23°♏48'46	-1°02'16
min. Earth dist.	-10497 Aug 01 j 02:36	23°♏48'15	18.55452 AU
direct	-10497 Oct 14 j 14:42	21°♏48'48	
evening set	-10496 Jan 14 j 08:53	24°♏55'06	
conjunction	-10496 Jan 31 j 02:29	25°♏52'46	-0°57'33
minimum elong	-10496 Jan 31 j 02:28	25°♏52'46	0°58'01
max. Earth dist.	-10496 Jan 30 j 18:38	25°♏51'38	20.52023 AU
morning rise	-10496 Feb 16 j 21:44	26°♏50'41	
	-10496 May 13 j 02:29	0°♐	
retrograde	-10496 May 20 j 18:44	0°♐01'33	
	-10496 May 28 j 12:18	30°℞♏	
opposition	-10496 Aug 04 j 05:58	28°♏00'32	-1°05'19
min. Earth dist.	-10496 Aug 04 j 12:54	27°♏59'48	18.48586 AU
direct	-10496 Oct 17 j 23:57	26°♏00'09	
evening set	-10495 Jan 18 j 00:43	29°♏07'44	
	-10495 Feb 02 j 03:47	0°♐	
conjunction	-10495 Feb 03 j 19:01	0°♐05'42	-1°00'09
minimum elong	-10495 Feb 03 j 19:01	0°♐05'42	1°00'37
max. Earth dist.	-10495 Feb 03 j 09:50	0°♐04'22	20.45091 AU
morning rise	-10495 Feb 20 j 14:19	1°♐03'52	
retrograde	-10495 May 25 j 08:23	4°♐15'18	
opposition	-10495 Aug 08 j 14:58	2°♐14'13	-1°08'02
min. Earth dist.	-10495 Aug 08 j 23:43	2°♐13'17	18.41604 AU
direct	-10495 Oct 22 j 10:24	0°♐13'27	
evening set	-10494 Jan 22 j 17:40	3°♐22'21	
conjunction	-10494 Feb 08 j 12:15	4°♐20'36	-1°02'25
minimum elong	-10494 Feb 08 j 12:15	4°♐20'36	1°02'57
max. Earth dist.	-10494 Feb 07 j 23:29	4°♐18'45	20.38066 AU
morning rise	-10494 Feb 25 j 07:49	5°♐19'01	
retrograde	-10494 May 29 j 22:30	8°♐31'05	
opposition	-10494 Aug 13 j 00:39	6°♐29'56	-1°10'25
min. Earth dist.	-10494 Aug 13 j 11:38	6°♐28'46	18.34544 AU
direct	-10494 Oct 26 j 21:09	4°♐28'47	
evening set	-10493 Jan 27 j 11:28	7°♐39'04	
conjunction	-10493 Feb 13 j 06:36	8°♐37'37	-1°04'23
minimum elong	-10493 Feb 13 j 06:36	8°♐37'37	1°04'54
max. Earth dist.	-10493 Feb 12 j 16:35	8°♐35'34	20.30957 AU
morning rise	-10493 Mar 02 j 02:03	9°♐36'18	
retrograde	-10493 Jun 03 j 13:57	12°♐48'59	
opposition	-10493 Aug 17 j 11:06	10°♐47'49	-1°12'25
min. Earth dist.	-10493 Aug 17 j 23:51	10°♐46'27	18.27392 AU
direct	-10493 Oct 31 j 09:07	8°♐46'17	
evening set	-10492 Feb 01 j 06:25	11°♐57'58	
max. Earth dist.	-10492 Feb 17 j 08:00	12°♐54'14	20.23758 AU
conjunction	-10492 Feb 18 j 01:43	12°♐56'50	-1°05'59
minimum elong	-10492 Feb 18 j 01:43	12°♐56'50	1°06'32
morning rise	-10492 Mar 05 j 21:19	13°♐55'46	
retrograde	-10492 Jun 07 j 05:46	17°♐09'08	
opposition	-10492 Aug 20 j 22:28	15°♐07'54	-1°14'01
min. Earth dist.	-10492 Aug 21 j 13:45	15°♐06'16	18.20149 AU
direct	-10492 Nov 03 j 21:39	13°♐05'58	
evening set	-10491 Feb 05 j 02:24	16°♐19'07	
conjunction	-10491 Feb 21 j 22:06	17°♐18'17	-1°07'13
minimum elong	-10491 Feb 21 j 22:06	17°♐18'17	1°07'46
max. Earth dist.	-10491 Feb 21 j 02:56	17°♐15'27	20.16448 AU
morning rise	-10491 Mar 10 j 17:24	18°♐17'27	
retrograde	-10491 Jun 11 j 23:01	21°♐31'29	
opposition	-10491 Aug 25 j 10:37	19°♐30'12	-1°15'13
min. Earth dist.	-10491 Aug 26 j 03:36	19°♐28'23	18.12783 AU
direct	-10491 Nov 08 j 11:54	17°♐27'52	
evening set	-10490 Feb 09 j 23:32	20°♐42'28	
conjunction	-10490 Feb 26 j 19:13	21°♐41'56	-1°08'04
minimum elong	-10490 Feb 26 j 19:12	21°♐41'56	1°08'38
max. Earth dist.	-10490 Feb 25 j 20:18	21°♐38'32	20.09025 AU
morning rise	-10490 Mar 15 j 14:26	22°♐41'22	
retrograde	-10490 Jun 16 j 16:00	25°♐56'03	
opposition	-10490 Aug 29 j 23:49	23°♐54'41	-1°15'58
min. Earth dist.	-10490 Aug 30 j 19:25	23°♐52'35	18.05323 AU
direct	-10490 Nov 13 j 02:14	21°♐51'55	
evening set	-10489 Feb 14 j 21:13	25°♐07'59	
conjunction	-10489 Mar 03 j 17:08	26°♐07'44	-1°08'31
minimum elong	-10489 Mar 03 j 17:08	26°♐07'44	1°09'06
max. Earth dist.	-10489 Mar 02 j 16:53	26°♐04'07	20.01518 AU
morning rise	-10489 Mar 20 j 11:57	27°♐07'24	
	-10489 May 23 j 04:33	0°♑	
retrograde	-10489 Jun 21 j 11:04	0°♑22'45	
	-10489 Jul 20 j 21:56	30°℞♐	
opposition	-10489 Sep 03 j 13:47	28°♐21'17	-1°16'16
min. Earth dist.	-10489 Sep 04 j 10:43	28°♐19'01	17.97786 AU
direct	-10489 Nov 17 j 18:58	26°♐18'04	
evening set	-10488 Feb 19 j 20:08	29°♐35'35	
	-10488 Feb 26 j 17:43	0°♑	

Attention, astronomical year style is used: The year -10488 in astronomical counting style is the year 10489 BCE in historical counting style.

conjunction	-10488 Mar 07 j 15:53	0°♉35'37	-1°08'33
minimum elong	-10488 Mar 07 j 15:53	0°♉35'37	1°09'08
max. Earth dist.	-10488 Mar 06 j 12:18	0°♉31'29	19.93966 AU
morning rise	-10488 Mar 24 j 10:27	1°♉35'32	
retrograde	-10488 Jun 25 j 04:44	4°♉51'30	
opposition	-10488 Sep 07 j 04:32	2°♉49'55	-1°16'07
min. Earth dist.	-10488 Sep 08 j 04:07	2°♉47'22	17.90250 AU
direct	-10488 Nov 21 j 10:45	0°♉46'14	
evening set	-10487 Feb 23 j 19:45	4°♉05'12	
max. Earth dist.	-10487 Mar 11 j 10:49	5°♉01'11	19.86453 AU
conjunction	-10487 Mar 12 j 15:33	5°♉05'31	-1°08'10
minimum elong	-10487 Mar 12 j 15:33	5°♉05'31	1°08'46
morning rise	-10487 Mar 29 j 09:35	6°♉05'38	
retrograde	-10487 Jun 30 j 01:38	9°♉22'14	
opposition	-10487 Sep 11 j 20:12	7°♉20'32	-1°15'30
min. Earth dist.	-10487 Sep 12 j 20:39	7°♉17'53	17.82781 AU
direct	-10487 Nov 26 j 05:48	5°♉16'24	
evening set	-10486 Feb 28 j 20:09	8°♉36'47	
max. Earth dist.	-10486 Mar 16 j 08:23	9°♉32'38	19.79048 AU
conjunction	-10486 Mar 17 j 15:38	9°♉37'21	-1°07'22
minimum elong	-10486 Mar 17 j 15:38	9°♉37'21	1°07'58
morning rise	-10486 Apr 03 j 09:09	10°♉37'42	
retrograde	-10486 Jul 04 j 19:59	13°♉54'55	
opposition	-10486 Sep 16 j 12:50	11°♉53'05	-1°14'24
min. Earth dist.	-10486 Sep 17 j 15:34	11°♉50'11	17.75483 AU
direct	-10486 Nov 30 j 23:20	9°♉48'29	
evening set	-10485 Mar 05 j 21:10	13°♉10'16	
max. Earth dist.	-10485 Mar 21 j 08:24	14°♉06'13	19.71865 AU
conjunction	-10485 Mar 22 j 16:27	14°♉11'06	-1°06'08
minimum elong	-10485 Mar 22 j 16:27	14°♉11'06	1°06'43
morning rise	-10485 Apr 08 j 09:22	15°♉11'38	
retrograde	-10485 Jul 09 j 17:54	18°♉29'28	
opposition	-10485 Sep 21 j 06:07	16°♉27'30	-1°12'50
min. Earth dist.	-10485 Sep 22 j 09:09	16°♉24'33	17.68437 AU
direct	-10485 Dec 05 j 20:15	14°♉22'29	
evening set	-10484 Mar 09 j 22:58	17°♉45'38	
max. Earth dist.	-10484 Mar 25 j 08:11	18°♉41'33	19.64967 AU
conjunction	-10484 Mar 26 j 17:51	18°♉46'42	-1°04'29
minimum elong	-10484 Mar 26 j 17:51	18°♉46'42	1°05'04
morning rise	-10484 Apr 12 j 10:05	19°♉47'25	
retrograde	-10484 Jul 13 j 13:12	23°♉05'51	
opposition	-10484 Sep 25 j 00:35	21°♉03'47	-1°10'47
min. Earth dist.	-10484 Sep 26 j 05:32	21°♉00'37	17.61726 AU
direct	-10484 Dec 09 j 15:53	18°♉58'22	
evening set	-10483 Mar 15 j 01:24	22°♉22'52	
max. Earth dist.	-10483 Mar 30 j 09:25	23°♉18'51	19.58449 AU
conjunction	-10483 Mar 31 j 19:48	23°♉24'08	-1°02'25
minimum elong	-10483 Mar 31 j 19:48	23°♉24'08	1°02'58
morning rise	-10483 Apr 17 j 11:18	24°♉25'01	
retrograde	-10483 Jul 18 j 12:00	27°♉44'02	
opposition	-10483 Sep 29 j 19:47	25°♉41'53	-1°08'16
min. Earth dist.	-10483 Oct 01 j 00:27	25°♉38'45	17.55416 AU
direct	-10483 Dec 14 j 15:12	23°♉36'08	
evening set	-10482 Mar 20 j 04:26	27°♉01'54	
max. Earth dist.	-10482 Apr 04 j 11:20	27°♉57'59	19.52360 AU
conjunction	-10482 Apr 05 j 22:18	28°♉03'22	-0°59'55
minimum elong	-10482 Apr 05 j 22:18	28°♉03'22	1°00'28
morning rise	-10482 Apr 22 j 12:51	29°♉04'24	
	-10482 May 08 j 11:04	0°♒	
retrograde	-10482 Jul 23 j 08:22	2°♒24'00	
opposition	-10482 Oct 04 j 16:09	0°♒21'48	-1°05'17
min. Earth dist.	-10482 Oct 05 j 22:19	0°♒18'30	17.49575 AU
	-10482 Oct 13 j 00:27	30°℞♉	
direct	-10482 Dec 19 j 12:46	28°♉15'46	
	-10481 Feb 22 j 13:17	0°♒	
evening set	-10481 Mar 25 j 07:54	1°♒42'46	
max. Earth dist.	-10481 Apr 09 j 13:28	2°♒38'52	19.46773 AU
conjunction	-10481 Apr 11 j 01:04	2°♒44'24	-0°57'01
minimum elong	-10481 Apr 11 j 01:05	2°♒44'24	0°57'32
morning rise	-10481 Apr 27 j 14:53	3°♒45'34	
retrograde	-10481 Jul 28 j 08:18	7°♒05'43	
opposition	-10481 Oct 09 j 13:13	5°♒03'30	-1°01'51
min. Earth dist.	-10481 Oct 10 j 18:48	5°♒00'16	17.44234 AU
direct	-10481 Dec 24 j 14:02	2°♒57'14	
evening set	-10480 Mar 29 j 12:02	6°♒25'23	
max. Earth dist.	-10480 Apr 13 j 17:13	7°♒21'41	19.41679 AU
conjunction	-10480 Apr 15 j 04:35	7°♒27'11	-0°53'42
minimum elong	-10480 Apr 15 j 04:35	7°♒27'11	0°54'12
morning rise	-10480 May 01 j 17:16	8°♒28'27	
retrograde	-10480 Aug 01 j 06:25	11°♒49'07	
opposition	-10480 Oct 13 j 11:20	9°♒46'56	-0°57'57
min. Earth dist.	-10480 Oct 14 j 18:12	9°♒43'34	17.39394 AU
direct	-10480 Dec 28 j 13:48	7°♒40'29	
evening set	-10479 Apr 03 j 16:47	11°♒09'43	
max. Earth dist.	-10479 Apr 18 j 20:11	12°♒05'59	19.37100 AU
conjunction	-10479 Apr 20 j 08:22	12°♒11'38	-0°50'00
minimum elong	-10479 Apr 20 j 08:22	12°♒11'38	0°50'30
morning rise	-10479 May 06 j 20:11	13°♒13'00	
	-10479 Jun 07 j 18:12	15°♒	
retrograde	-10479 Aug 06 j 07:33	16°♒34'10	
	-10479 Oct 07 j 16:17	15°℞♒	
opposition	-10479 Oct 18 j 10:22	14°♒32'01	-0°53'39
min. Earth dist.	-10479 Oct 19 j 16:34	14°♒28'42	17.35060 AU
direct	-10478 Jan 02 j 16:28	12°♒25'24	
	-10478 Mar 24 j 05:18	15°♒	
evening set	-10478 Apr 08 j 21:39	15°♒55'36	
max. Earth dist.	-10478 Apr 24 j 01:17	16°♒52'06	19.33003 AU
conjunction	-10478 Apr 25 j 12:27	16°♒57'36	-0°45'57
minimum elong	-10478 Apr 25 j 12:27	16°♒57'36	0°46'23
morning rise	-10478 May 11 j 22:59	17°♒59'02	
retrograde	-10478 Aug 11 j 07:31	21°♒20'39	
opposition	-10478 Oct 23 j 10:27	19°♒18'32	-0°48'56
min. Earth dist.	-10478 Oct 24 j 17:27	19°♒15'09	17.31204 AU
direct	-10477 Jan 07 j 17:46	17°♒11'48	
evening set	-10477 Apr 14 j 03:05	20°♒42'51	
max. Earth dist.	-10477 Apr 29 j 04:40	21°♒39'15	19.29391 AU
conjunction	-10477 Apr 30 j 16:43	21°♒44'55	-0°41'33
minimum elong	-10477 Apr 30 j 16:44	21°♒44'55	0°41'58
morning rise	-10477 May 17 j 02:19	22°♒46'23	
retrograde	-10477 Aug 16 j 09:30	26°♒08'24	
opposition	-10477 Oct 28 j 11:03	24°♒06'17	-0°43'52
min. Earth dist.	-10477 Oct 29 j 17:24	24°♒02'58	17.27830 AU
direct	-10476 Jan 12 j 21:30	21°♒59'25	
evening set	-10476 Apr 18 j 08:34	25°♒31'13	
max. Earth dist.	-10476 May 03 j 10:43	26°♒27'51	19.26249 AU
conjunction	-10476 May 04 j 21:21	26°♒33'19	-0°36'50
minimum elong	-10476 May 04 j 21:21	26°♒33'19	0°37'13
morning rise	-10476 May 21 j 05:35	27°♒34'48	
	-10476 Jul 05 j 23:25	0°♓	
retrograde	-10476 Aug 20 j 10:34	0°♓57'07	
	-10476 Oct 06 j 09:10	30°℞♒	
opposition	-10476 Nov 01 j 12:42	28°♒55'01	-0°38'28

Attention, astronomical year style is used: The year -10476 in astronomical counting style is the year 10477 BCE in historical counting style.

min. Earth dist.	-10476 Nov 02 j 19:15	28°≈≈51'41	17.24919 AU
direct	-10475 Jan 17 j 00:19	26°≈≈48'04	
	-10475 Apr 18 j 00:19	0°♓	
evening set	-10475 Apr 23 j 14:13	0°♓20'26	
max. Earth dist.	-10475 May 08 j 14:32	1°♓16'58	19.23591 AU
conjunction	-10475 May 10 j 01:41	1°♓22'32	-0°31'52
minimum elong	-10475 May 10 j 01:41	1°♓22'32	0°32'12
morning rise	-10475 May 26 j 08:50	2°♓24'00	
retrograde	-10475 Aug 25 j 12:29	5°♓46'37	
opposition	-10475 Nov 06 j 14:55	3°♓44'29	-0°32'47
min. Earth dist.	-10475 Nov 07 j 20:41	3°♓41'14	17.22516 AU
direct	-10474 Jan 22 j 05:14	1°♓37'26	
evening set	-10474 Apr 28 j 19:38	5°♓10'16	
max. Earth dist.	-10474 May 13 j 20:58	6°♓07'05	19.21453 AU
conjunction	-10474 May 15 j 06:05	6°♓12'20	-0°26'39
minimum elong	-10474 May 15 j 06:05	6°♓12'20	0°26'58
morning rise	-10474 May 31 j 11:53	7°♓13'45	
retrograde	-10474 Aug 30 j 13:51	10°♓36'34	
opposition	-10474 Nov 11 j 17:42	8°♓34'25	-0°26'51
min. Earth dist.	-10474 Nov 12 j 22:46	8°♓31'15	17.20641 AU
direct	-10473 Jan 27 j 09:38	6°♓27'19	
evening set	-10473 May 04 j 00:54	10°♓00'26	
max. Earth dist.	-10473 May 19 j 01:05	10°♓57'13	19.19870 AU
conjunction	-10473 May 20 j 10:01	11°♓02'27	-0°21'15
minimum elong	-10473 May 20 j 10:01	11°♓02'27	0°21'30
morning rise	-10473 Jun 05 j 14:43	12°♓03'48	
retrograde	-10473 Sep 04 j 15:15	15°♓26'46	
opposition	-10473 Nov 16 j 20:55	13°♓24'35	-0°20'44
min. Earth dist.	-10473 Nov 18 j 01:08	13°♓21'31	17.19352 AU
direct	-10472 Feb 01 j 15:20	11°♓17'26	
evening set	-10472 May 08 j 05:48	14°♓50'44	
max. Earth dist.	-10472 May 23 j 07:13	15°♓47'47	19.18889 AU
conjunction	-10472 May 24 j 13:45	15°♓52'39	-0°15'43
minimum elong	-10472 May 24 j 13:45	15°♓52'39	0°15'55
behind sun begin	-10472 May 24 j 13:00	15°♓52'32	
behind sun end	-10472 May 24 j 14:31	15°♓52'46	
morning rise	-10472 Jun 09 j 17:07	16°♓53'54	
retrograde	-10472 Sep 08 j 16:31	20°♓16'58	
opposition	-10472 Nov 21 j 00:33	18°♓14'45	-0°14'28
min. Earth dist.	-10472 Nov 22 j 03:06	18°♓11'52	17.18671 AU
direct	-10471 Feb 05 j 21:29	16°♓07'38	
evening set	-10471 May 13 j 10:25	19°♓40'56	
max. Earth dist.	-10471 May 28 j 11:37	20°♓38'03	19.18545 AU
conjunction	-10471 May 29 j 16:59	20°♓42'43	-0°10'04
minimum elong	-10471 May 29 j 16:59	20°♓42'43	0°10'13
behind sun begin	-10471 May 29 j 11:40	20°♓41'54	
behind sun end	-10471 May 29 j 22:18	20°♓43'33	
morning rise	-10471 Jun 14 j 19:07	21°♓43'52	
retrograde	-10471 Sep 13 j 17:13	25°♓06'58	
opposition	-10471 Nov 26 j 04:39	23°♓04'44	-0°08'06
min. Earth dist.	-10471 Nov 27 j 06:04	23°♓01'58	17.18674 AU
direct	-10470 Feb 11 j 03:15	20°♓57'40	
evening set	-10470 May 18 j 14:17	24°♓30'51	
conjunction	-10470 Jun 03 j 19:34	25°♓32'29	-0°04'23
minimum elong	-10470 Jun 03 j 19:35	25°♓32'29	0°04'29
behind sun begin	-10470 Jun 03 j 13:03	25°♓31'28	
behind sun end	-10470 Jun 04 j 02:06	25°♓33'30	
max. Earth dist.	-10470 Jun 02 j 16:52	25°♓28'14	19.18902 AU
morning rise	-10470 Jun 19 j 20:28	26°♓33'29	
retrograde	-10470 Sep 18 j 18:35	29°♓56'36	
opposition	-10470 Dec 01 j 08:52	27°♓54'22	-0°01'42
min. Earth dist.	-10470 Dec 02 j 07:40	27°♓51'54	17.19372 AU
direct	-10469 Feb 16 j 10:17	25°♓47'25	
asc. node	-10469 Mar 07 j 03:01	25°♓56'42	
evening set	-10469 May 23 j 17:50	29°♓20'22	
	-10469 Jun 03 j 05:04	0°♈	
conjunction	-10469 Jun 08 j 21:45	0°♈21'49	0°01'28
minimum elong	-10469 Jun 08 j 21:47	0°♈21'49	0°01'24
behind sun begin	-10469 Jun 08 j 15:08	0°♈20'47	
behind sun end	-10469 Jun 09 j 04:26	0°♈22'51	
max. Earth dist.	-10469 Jun 07 j 21:10	0°♈17'54	19.19965 AU
morning rise	-10469 Jun 24 j 21:24	1°♈22'40	
retrograde	-10469 Sep 23 j 18:32	4°♈45'43	
opposition	-10469 Dec 06 j 13:13	2°♈43'31	0°04'43
min. Earth dist.	-10469 Dec 07 j 10:48	2°♈41'11	17.20803 AU
direct	-10468 Feb 21 j 15:32	0°♈36'45	
evening set	-10468 May 27 j 20:49	4°♈09'21	
conjunction	-10468 Jun 12 j 23:23	5°♈10'37	0°07'12
minimum elong	-10468 Jun 12 j 23:23	5°♈10'37	0°07'12
behind sun begin	-10468 Jun 12 j 17:16	5°♈09'40	
behind sun end	-10468 Jun 13 j 05:29	5°♈11'34	
max. Earth dist.	-10468 Jun 12 j 01:13	5°♈07'05	19.21769 AU
morning rise	-10468 Jun 28 j 21:51	6°♈11'16	
retrograde	-10468 Sep 27 j 20:14	9°♈34'13	
opposition	-10468 Dec 10 j 17:44	7°♈32'07	0°11'05
min. Earth dist.	-10468 Dec 11 j 12:06	7°♈30'08	17.22951 AU
direct	-10467 Feb 25 j 22:26	5°♈25'36	
evening set	-10467 Jun 01 j 23:01	8°♈57'43	
max. Earth dist.	-10467 Jun 17 j 05:05	9°♈55'42	19.24272 AU
conjunction	-10467 Jun 18 j 00:18	9°♈58'46	0°12'51
minimum elong	-10467 Jun 18 j 00:18	9°♈58'46	0°12'53
behind sun begin	-10467 Jun 17 j 20:10	9°♈58'07	
behind sun end	-10467 Jun 18 j 04:26	9°♈59'24	
morning rise	-10467 Jul 03 j 21:31	10°♈59'13	
retrograde	-10467 Oct 02 j 19:58	14°♈22'03	
opposition	-10467 Dec 15 j 22:29	12°♈20'04	0°17'22
min. Earth dist.	-10467 Dec 16 j 15:30	12°♈18'14	17.25796 AU
direct	-10466 Mar 03 j 02:16	10°♈13'51	
evening set	-10466 Jun 07 j 00:39	13°♈45'23	
max. Earth dist.	-10466 Jun 22 j 07:29	14°♈43'27	19.27453 AU
conjunction	-10466 Jun 23 j 00:34	14°♈46'10	0°18'24
minimum elong	-10466 Jun 23 j 00:33	14°♈46'10	0°18'29
morning rise	-10466 Jul 08 j 20:47	15°♈46'25	
retrograde	-10466 Oct 07 j 22:10	19°♈09'03	
opposition	-10466 Dec 21 j 02:52	17°♈07'12	0°23'30
min. Earth dist.	-10466 Dec 21 j 16:32	17°♈05'45	17.29276 AU
direct	-10465 Mar 08 j 08:14	15°♈01'21	
evening set	-10465 Jun 12 j 01:29	18°♈32'10	
max. Earth dist.	-10465 Jun 27 j 10:29	19°♈30'31	19.31223 AU
conjunction	-10465 Jun 28 j 00:14	19°♈32'42	0°23'49
minimum elong	-10465 Jun 28 j 00:14	19°♈32'42	0°23'58
morning rise	-10465 Jul 13 j 19:16	20°♈32'43	
retrograde	-10465 Oct 12 j 21:31	23°♈55'07	
opposition	-10465 Dec 26 j 07:30	21°♈53'25	0°29'28
min. Earth dist.	-10465 Dec 26 j 19:49	21°♈52'06	17.33316 AU
direct	-10464 Mar 12 j 11:08	19°♈47'56	
evening set	-10464 Jun 16 j 01:41	23°♈17'56	
conjunction	-10464 Jul 01 j 23:01	24°♈18'10	0°29'04
minimum elong	-10464 Jul 01 j 23:01	24°♈18'10	0°29'15
max. Earth dist.	-10464 Jul 01 j 11:01	24°♈16'16	19.35522 AU
morning rise	-10464 Jul 17 j 17:09	25°♈17'56	
retrograde	-10464 Oct 16 j 23:12	28°♈40'03	

Attention, astronomical year style is used: The year -10463 in astronomical counting style is the year 10464 BCE in historical counting style.

opposition	-10464 Dec 30 j 11:49	26°♈38'28	0°35'12
min. Earth dist.	-10464 Dec 30 j 20:46	26°♈37'31	17.37850 AU
direct	-10463 Mar 17 j 16:46	24°♈33'23	
evening set	-10463 Jun 21 j 00:59	28°♈02'26	
conjunction	-10463 Jul 06 j 21:15	29°♈02'23	0°34'05
minimum elong	-10463 Jul 06 j 21:15	29°♈02'23	0°34'19
max. Earth dist.	-10463 Jul 06 j 12:51	29°♈01'03	19.40276 AU
morning rise	-10463 Jul 22 j 14:16	0°♉01'53	
	-10463 Jul 22 j 02:07	0°♉	
retrograde	-10463 Oct 21 j 21:47	3°♉23'40	
opposition	-10462 Jan 04 j 16:01	1°♉22'12	0°40'39
min. Earth dist.	-10462 Jan 04 j 23:26	1°♉21'25	17.42812 AU
	-10462 Feb 09 j 01:25	30°℞♈	
direct	-10462 Mar 22 j 19:36	29°♈17'30	
	-10462 May 02 j 09:31	0°♉	
evening set	-10462 Jun 25 j 23:27	2°♉45'30	
conjunction	-10462 Jul 11 j 18:27	3°♉45'08	0°38'51
minimum elong	-10462 Jul 11 j 18:26	3°♉45'08	0°39'07
max. Earth dist.	-10462 Jul 11 j 11:32	3°♉44'03	19.45434 AU
morning rise	-10462 Jul 27 j 10:47	4°♉44'22	
retrograde	-10462 Oct 26 j 21:50	8°♉05'44	
opposition	-10461 Jan 09 j 19:40	6°♉04'22	0°45'48
min. Earth dist.	-10461 Jan 09 j 23:55	6°♉03'55	17.48149 AU
direct	-10461 Mar 28 j 00:41	4°♉00'03	
evening set	-10461 Jun 30 j 20:56	7°♉26'55	
conjunction	-10461 Jul 16 j 15:00	8°♉26'14	0°43'19
minimum elong	-10461 Jul 16 j 15:00	8°♉26'14	0°43'38
max. Earth dist.	-10461 Jul 16 j 11:41	8°♉25'43	19.50930 AU
morning rise	-10461 Aug 01 j 06:21	9°♉25'11	
retrograde	-10461 Oct 31 j 18:46	12°♉46'05	
opposition	-10460 Jan 14 j 22:51	10°♉44'48	0°50'37
min. Earth dist.	-10460 Jan 15 j 01:17	10°♉44'32	17.53799 AU
direct	-10460 Apr 01 j 03:46	8°♉40'51	
evening set	-10460 Jul 04 j 17:35	12°♉06'30	
conjunction	-10460 Jul 20 j 10:29	13°♉05'29	0°47'28
minimum elong	-10460 Jul 20 j 10:29	13°♉05'28	0°47'50
max. Earth dist.	-10460 Jul 20 j 08:39	13°♉05'11	19.56741 AU
morning rise	-10460 Aug 05 j 01:18	14°♉04'09	
	-10460 Aug 20 j 17:08	15°♉	
retrograde	-10460 Nov 04 j 16:38	17°♉24'33	
opposition	-10459 Jan 19 j 01:32	15°♉23'19	0°55'03
min. Earth dist.	-10459 Jan 19 j 01:00	15°♉23'22	17.59765 AU
	-10459 Jan 28 j 09:47	15°℞♉	
direct	-10459 Apr 06 j 06:53	13°♉19'44	
	-10459 Jun 08 j 16:42	15°♉	
evening set	-10459 Jul 09 j 12:53	16°♉44'03	
conjunction	-10459 Jul 25 j 05:03	17°♉42'43	0°51'18
minimum elong	-10459 Jul 25 j 05:03	17°♉42'43	0°51'41
max. Earth dist.	-10459 Jul 25 j 06:59	17°♉43'01	19.62849 AU
morning rise	-10459 Aug 09 j 19:06	18°♉41'05	
retrograde	-10459 Nov 09 j 12:33	22°♉00'56	
opposition	-10458 Jan 24 j 03:34	19°♉59'45	0°59'06
min. Earth dist.	-10458 Jan 24 j 00:43	20°♉00'03	17.66011 AU
direct	-10458 Apr 11 j 08:57	17°♉56'32	
evening set	-10458 Jul 14 j 07:23	21°♉19'29	
conjunction	-10458 Jul 29 j 22:34	22°♉17'48	0°54'45
minimum elong	-10458 Jul 29 j 22:33	22°♉17'48	0°55'12
max. Earth dist.	-10458 Jul 30 j 02:11	22°♉18'22	19.69241 AU
morning rise	-10458 Aug 14 j 12:16	23°♉15'54	
retrograde	-10458 Nov 14 j 08:08	26°♉35'09	
opposition	-10457 Jan 29 j 04:39	24°♉34'00	1°02'44
min. Earth dist.	-10457 Jan 28 j 23:10	24°♉34'34	17.72559 AU
direct	-10457 Apr 16 j 08:59	22°♉31'08	
evening set	-10457 Jul 19 j 00:38	25°♉52'42	
conjunction	-10457 Aug 03 j 15:14	26°♉50'41	0°57'51
minimum elong	-10457 Aug 03 j 15:13	26°♉50'41	0°58'18
max. Earth dist.	-10457 Aug 03 j 22:34	26°♉51'50	19.75928 AU
morning rise	-10457 Aug 19 j 04:21	27°♉48'29	
	-10457 Sep 29 j 08:43	0°♊	
retrograde	-10457 Nov 19 j 03:08	1°♊07'07	
	-10456 Jan 11 j 17:32	30°℞♉	
opposition	-10456 Feb 03 j 05:06	29°♉06'02	1°05'57
min. Earth dist.	-10456 Feb 02 j 20:47	29°♉06'54	17.79387 AU
direct	-10456 Apr 20 j 09:14	27°♉03'33	
	-10456 Jul 16 j 02:42	0°♊	
evening set	-10456 Jul 22 j 16:56	0°♊23'41	
conjunction	-10456 Aug 07 j 06:41	1°♊21'20	1°00'34
minimum elong	-10456 Aug 07 j 06:41	1°♊21'20	1°01'03
max. Earth dist.	-10456 Aug 07 j 15:59	1°♊22'47	19.82898 AU
morning rise	-10456 Aug 22 j 19:36	2°♊18'52	
retrograde	-10456 Nov 22 j 21:20	5°♊36'53	
opposition	-10455 Feb 07 j 04:52	3°♊35'52	1°08'44
min. Earth dist.	-10455 Feb 06 j 18:05	3°♊36'59	17.86515 AU
direct	-10455 Apr 25 j 06:42	1°♊33'47	
evening set	-10455 Jul 27 j 08:10	4°♊52'29	
conjunction	-10455 Aug 11 j 21:31	5°♊49'50	1°02'54
minimum elong	-10455 Aug 11 j 21:30	5°♊49'49	1°03'24
max. Earth dist.	-10455 Aug 12 j 10:20	5°♊51'49	19.90160 AU
morning rise	-10455 Aug 27 j 10:04	6°♊47'05	
retrograde	-10455 Nov 27 j 15:30	10°♊04'27	
opposition	-10454 Feb 12 j 03:35	8°♊03'33	1°11'05
min. Earth dist.	-10454 Feb 11 j 13:41	8°♊04'59	17.93902 AU
direct	-10454 Apr 30 j 04:40	6°♊01'56	
evening set	-10454 Jul 31 j 22:31	9°♊19'12	
conjunction	-10454 Aug 16 j 11:18	10°♊16'14	1°04'50
minimum elong	-10454 Aug 16 j 11:18	10°♊16'13	1°05'22
max. Earth dist.	-10454 Aug 17 j 02:02	10°♊18'30	19.97657 AU
morning rise	-10454 Aug 31 j 23:51	11°♊13'13	
retrograde	-10454 Dec 02 j 08:33	14°♊29'58	
min. Earth dist.	-10453 Feb 16 j 09:47	12°♊30'50	18.01510 AU
opposition	-10453 Feb 17 j 01:36	12°♊29'12	1°12'59
direct	-10453 May 04 j 23:52	10°♊28'03	
evening set	-10453 Aug 05 j 11:49	13°♊43'54	
conjunction	-10453 Aug 21 j 00:21	14°♊40'38	1°06'22
minimum elong	-10453 Aug 21 j 00:20	14°♊40'38	1°06'56
max. Earth dist.	-10453 Aug 21 j 18:06	14°♊43'21	20.05342 AU
morning rise	-10453 Sep 05 j 12:44	15°♊37'22	
retrograde	-10453 Dec 07 j 01:48	18°♊53'29	
opposition	-10452 Feb 21 j 22:40	16°♊52'54	1°14'27
min. Earth dist.	-10452 Feb 21 j 03:47	16°♊54'50	18.09250 AU
direct	-10452 May 08 j 19:43	14°♊52'14	
evening set	-10452 Aug 09 j 00:27	18°♊06'41	
conjunction	-10452 Aug 24 j 12:35	19°♊03'07	1°07'31
minimum elong	-10452 Aug 24 j 12:35	19°♊03'07	1°08'05
max. Earth dist.	-10452 Aug 25 j 08:10	19°♊06'07	20.13122 AU
morning rise	-10452 Sep 09 j 01:07	19°♊59'37	
retrograde	-10452 Dec 10 j 17:44	23°♊15'08	
opposition	-10451 Feb 25 j 19:07	21°♊14'42	1°15'29
min. Earth dist.	-10451 Feb 24 j 22:53	21°♊16'46	18.17067 AU
direct	-10451 May 13 j 12:55	19°♊14'31	
evening set	-10451 Aug 13 j 12:02	22°♊27'35	

Attention, astronomical year style is used: The year -10451 in astronomical counting style is the year 10452 BCE in historical counting style.

conjunction	-10451 Aug 29 j 00:07	23°♊23'45	1°08'16
minimum elong	-10451 Aug 29 j 00:07	23°♊23'45	1°08'51
max. Earth dist.	-10451 Aug 29 j 22:10	23°♊27'06	20.20934 AU
morning rise	-10451 Sep 13 j 12:45	24°♊20'00	
retrograde	-10451 Dec 15 j 10:15	27°♊34'53	
opposition	-10450 Mar 02 j 14:31	25°♊34'38	1°16'03
min. Earth dist.	-10450 Mar 01 j 15:31	25°♊36'59	18.24853 AU
direct	-10450 May 18 j 06:55	23°♊34'56	
evening set	-10450 Aug 17 j 23:06	26°♊46'39	
conjunction	-10450 Sep 02 j 11:02	27°♊42'32	1°08'37
minimum elong	-10450 Sep 02 j 11:01	27°♊42'32	1°09'11
max. Earth dist.	-10450 Sep 03 j 10:34	27°♊46'06	20.28666 AU
morning rise	-10450 Sep 17 j 23:57	28°♊38'34	
	-10450 Oct 12 j 11:40	0°♋	
retrograde	-10450 Dec 20 j 00:31	1°♋52'50	
	-10449 Mar 04 j 09:20	30°℞♊	
min. Earth dist.	-10449 Mar 06 j 09:27	29°♊55'08	18.32536 AU
opposition	-10449 Mar 07 j 09:05	29°♊52'44	1°16'12
direct	-10449 May 22 j 22:35	27°♊53'28	
	-10449 Aug 03 j 10:39	0°♋	
evening set	-10449 Aug 22 j 09:18	1°♋03'51	
conjunction	-10449 Sep 06 j 21:19	1°♋59'29	1°08'35
minimum elong	-10449 Sep 06 j 21:19	1°♋59'29	1°09'10
max. Earth dist.	-10449 Sep 07 j 22:38	2°♋03'18	20.36264 AU
morning rise	-10449 Sep 22 j 10:29	2°♋55'18	
retrograde	-10449 Dec 24 j 16:19	6°♋08'57	
min. Earth dist.	-10448 Mar 10 j 00:40	4°♋11'37	18.40032 AU
opposition	-10448 Mar 11 j 02:46	4°♋08'59	1°15'54
direct	-10448 May 26 j 14:53	2°♋10'08	
evening set	-10448 Aug 25 j 18:45	5°♋19'11	
conjunction	-10448 Sep 10 j 06:48	6°♋14'35	1°08'09
minimum elong	-10448 Sep 10 j 06:48	6°♋14'35	1°08'45
max. Earth dist.	-10448 Sep 11 j 09:28	6°♋18'35	20.43636 AU
morning rise	-10448 Sep 25 j 20:27	7°♋10'13	
retrograde	-10448 Dec 28 j 04:40	10°♋23'14	
opposition	-10447 Mar 15 j 19:49	8°♋23'22	1°15'12
min. Earth dist.	-10447 Mar 14 j 17:28	8°♋26'02	18.47287 AU
direct	-10447 May 31 j 05:19	6°♋24'53	
evening set	-10447 Aug 30 j 03:31	9°♋32'39	
conjunction	-10447 Sep 14 j 15:53	10°♋27'50	1°07'22
minimum elong	-10447 Sep 14 j 15:53	10°♋27'50	1°07'57
max. Earth dist.	-10447 Sep 15 j 19:48	10°♋32'01	20.50753 AU
morning rise	-10447 Sep 30 j 06:00	11°♋23'16	
retrograde	-10446 Jan 01 j 19:16	14°♋35'39	
min. Earth dist.	-10446 Mar 19 j 07:05	12°♋38'44	18.54255 AU
opposition	-10446 Mar 20 j 11:33	12°♋35'52	1°14'06
direct	-10446 Jun 04 j 20:05	10°♋37'42	
evening set	-10446 Sep 03 j 11:36	13°♋44'13	
conjunction	-10446 Sep 19 j 00:13	14°♋39'12	1°06'13
minimum elong	-10446 Sep 19 j 00:13	14°♋39'12	1°06'49
max. Earth dist.	-10446 Sep 20 j 05:17	14°♋43'31	20.57560 AU
morning rise	-10446 Oct 04 j 14:58	15°♋34'28	
retrograde	-10445 Jan 06 j 05:35	18°♋46'12	
min. Earth dist.	-10445 Mar 23 j 22:15	16°♋49'19	18.60917 AU
opposition	-10445 Mar 25 j 02:38	16°♋46'27	1°12'36
direct	-10445 Jun 09 j 08:24	14°♋48'35	
evening set	-10445 Sep 07 j 18:48	17°♋53'53	
conjunction	-10445 Sep 23 j 07:51	18°♋48'39	1°04'44
minimum elong	-10445 Sep 23 j 07:51	18°♋48'39	1°05'19
max. Earth dist.	-10445 Sep 24 j 13:59	18°♋53'07	20.64076 AU
morning rise	-10445 Oct 08 j 23:12	19°♋43'46	
retrograde	-10444 Jan 10 j 18:21	22°♋54'53	
min. Earth dist.	-10444 Mar 27 j 10:14	20°♋58'13	18.67284 AU
opposition	-10444 Mar 28 j 16:39	20°♋55'09	1°10'45
direct	-10444 Jun 12 j 21:46	18°♋57'33	
evening set	-10444 Sep 11 j 01:29	22°♋01'40	
conjunction	-10444 Sep 26 j 14:57	22°♋56'16	1°02'56
minimum elong	-10444 Sep 26 j 14:58	22°♋56'17	1°03'30
max. Earth dist.	-10444 Sep 27 j 22:21	23°♋00'54	20.70296 AU
morning rise	-10444 Oct 12 j 07:04	23°♋51'15	
retrograde	-10443 Jan 14 j 03:11	27°♋01'46	
min. Earth dist.	-10443 Mar 31 j 23:37	25°♋05'05	18.73381 AU
opposition	-10443 Apr 02 j 05:52	25°♋02'03	1°08'33
direct	-10443 Jun 17 j 07:51	23°♋04'40	
evening set	-10443 Sep 15 j 07:30	26°♋07'41	
conjunction	-10443 Sep 30 j 21:34	27°♋02'08	1°00'49
minimum elong	-10443 Sep 30 j 21:35	27°♋02'08	1°01'22
max. Earth dist.	-10443 Oct 02 j 05:49	27°♋06'52	20.76266 AU
morning rise	-10443 Oct 16 j 14:28	27°♋56'59	
	-10443 Nov 26 j 12:00	0°♌	
retrograde	-10442 Jan 18 j 14:32	1°♌06'54	
	-10442 Mar 15 j 00:38	30°℞♋	
min. Earth dist.	-10442 Apr 05 j 09:57	29°♋10'26	18.79220 AU
opposition	-10442 Apr 06 j 18:02	29°♋07'13	1°06'02
direct	-10442 Jun 21 j 19:02	27°♋10'04	
	-10442 Sep 15 j 23:58	0°♌	
evening set	-10442 Sep 19 j 13:07	0°♌12'04	
conjunction	-10442 Oct 05 j 03:44	1°♌06'22	0°58'25
minimum elong	-10442 Oct 05 j 03:45	1°♌06'22	0°58'57
max. Earth dist.	-10442 Oct 06 j 13:04	1°♌11'14	20.81963 AU
morning rise	-10442 Oct 20 j 21:26	2°♌01'06	
retrograde	-10441 Jan 22 j 22:27	5°♌10'30	
min. Earth dist.	-10441 Apr 09 j 21:40	3°♌14'02	18.84793 AU
opposition	-10441 Apr 11 j 05:26	3°♌10'51	1°03'11
direct	-10441 Jun 26 j 03:19	1°♌13'57	
evening set	-10441 Sep 23 j 18:12	4°♌14'59	
conjunction	-10441 Oct 09 j 09:32	5°♌09'11	0°55'44
minimum elong	-10441 Oct 09 j 09:32	5°♌09'11	0°56'15
max. Earth dist.	-10441 Oct 10 j 19:21	5°♌14'06	20.87411 AU
morning rise	-10441 Oct 25 j 04:07	6°♌03'49	
retrograde	-10440 Jan 27 j 08:46	9°♌12'44	
min. Earth dist.	-10440 Apr 13 j 06:45	7°♌16'28	18.90097 AU
opposition	-10440 Apr 14 j 16:04	7°♌13'08	1°00'04
direct	-10440 Jun 29 j 12:15	5°♌16'28	
evening set	-10440 Sep 26 j 22:53	8°♌16'38	
conjunction	-10440 Oct 12 j 14:56	9°♌10'44	0°52'48
minimum elong	-10440 Oct 12 j 14:57	9°♌10'44	0°53'17
max. Earth dist.	-10440 Oct 14 j 01:39	9°♌15'46	20.92556 AU
morning rise	-10440 Oct 28 j 10:29	10°♌05'18	
retrograde	-10439 Jan 30 j 16:38	13°♌13'46	
min. Earth dist.	-10439 Apr 17 j 17:27	11°♌17'31	18.95080 AU
opposition	-10439 Apr 19 j 02:09	11°♌14'15	0°56'39
direct	-10439 Jul 03 j 19:02	9°♌17'49	
evening set	-10439 Oct 01 j 03:24	12°♌17'12	
conjunction	-10439 Oct 16 j 20:17	13°♌11'13	0°49'37
minimum elong	-10439 Oct 16 j 20:17	13°♌11'13	0°50'06
max. Earth dist.	-10439 Oct 18 j 06:59	13°♌16'13	20.97373 AU
morning rise	-10439 Nov 01 j 16:49	14°♌05'44	
	-10439 Nov 18 j 09:22	15°♌	
retrograde	-10438 Feb 04 j 02:07	17°♌13'47	
min. Earth dist.	-10438 Apr 22 j 01:37	15°♌17'43	18.99702 AU
opposition	-10438 Apr 23 j 11:15	15°♌14'21	0°52'58

Attention, astronomical year style is used: The year -10438 in astronomical counting style is the year 10439 BCE in historical counting style.

	-10438 Apr 29 j 11:11	15°℞♌	
direct	-10438 Jul 08 j 02:26	13°♌18'08	
	-10438 Sep 10 j 23:58	15°♌	
evening set	-10438 Oct 05 j 07:44	16°♌16'49	
conjunction	-10438 Oct 21 j 01:26	17°♌10'46	0°46'11
minimum elong	-10438 Oct 21 j 01:26	17°♌10'46	0°46'38
max. Earth dist.	-10438 Oct 22 j 12:33	17°♌15'50	21.01784 AU
morning rise	-10438 Nov 05 j 22:58	18°♌05'15	
retrograde	-10437 Feb 08 j 09:39	21°♌12'56	
min. Earth dist.	-10437 Apr 26 j 11:28	19°♌16'51	19.03895 AU
opposition	-10437 Apr 27 j 20:03	19°♌13'36	0°49'03
direct	-10437 Jul 12 j 07:53	17°♌17'36	
evening set	-10437 Oct 09 j 11:47	20°♌15'39	
conjunction	-10437 Oct 25 j 06:22	21°♌09'33	0°42'33
minimum elong	-10437 Oct 25 j 06:23	21°♌09'33	0°42'59
max. Earth dist.	-10437 Oct 26 j 17:03	21°♌14'32	21.05756 AU
morning rise	-10437 Nov 10 j 04:56	22°♌04'00	
retrograde	-10436 Feb 12 j 18:50	25°♌11'23	
min. Earth dist.	-10436 Apr 29 j 19:09	23°♌15'25	19.07617 AU
opposition	-10436 May 01 j 04:12	23°♌12'07	0°44'54
direct	-10436 Jul 15 j 14:24	21°♌16'16	
evening set	-10436 Oct 12 j 15:58	24°♌13'47	
conjunction	-10436 Oct 28 j 11:28	25°♌07'40	0°38'43
minimum elong	-10436 Oct 28 j 11:28	25°♌07'40	0°39'06
max. Earth dist.	-10436 Oct 29 j 22:05	25°♌12'37	21.09210 AU
morning rise	-10436 Nov 13 j 11:05	26°♌02'07	
retrograde	-10435 Feb 16 j 01:46	29°♌09'11	
min. Earth dist.	-10435 May 04 j 04:21	27°♌13'08	19.10798 AU
opposition	-10435 May 05 j 11:51	27°♌09'59	0°40'33
direct	-10435 Jul 19 j 18:58	25°♌14'16	
evening set	-10435 Oct 16 j 20:08	28°♌11'18	
conjunction	-10435 Nov 01 j 16:38	29°♌05'11	0°34'42
minimum elong	-10435 Nov 01 j 16:38	29°♌05'11	0°35'04
max. Earth dist.	-10435 Nov 03 j 02:10	29°♌09'58	21.12115 AU
morning rise	-10435 Nov 17 j 17:21	29°♌59'38	
	-10435 Nov 17 j 19:59	0°♍	
retrograde	-10434 Feb 20 j 10:44	3°♍06'27	
min. Earth dist.	-10434 May 08 j 11:32	1°♍10'24	19.13401 AU
opposition	-10434 May 09 j 18:57	1°♍07'16	0°36'01
	-10434 Jun 08 j 15:32	30°℞♌	
direct	-10434 Jul 24 j 00:44	29°♌11'38	
	-10434 Sep 05 j 20:18	0°♍	
evening set	-10434 Oct 21 j 00:14	2°♍08'15	
conjunction	-10434 Nov 05 j 21:42	3°♍02'09	0°30'33
minimum elong	-10434 Nov 05 j 21:42	3°♍02'09	0°30'52
max. Earth dist.	-10434 Nov 07 j 06:45	3°♍06'51	21.14405 AU
morning rise	-10434 Nov 21 j 23:28	3°♍56'38	
retrograde	-10433 Feb 24 j 16:51	7°♍03'13	
min. Earth dist.	-10433 May 12 j 20:00	5°♍06'59	19.15383 AU
opposition	-10433 May 14 j 01:39	5°♍04'01	0°31'20
direct	-10433 Jul 28 j 04:54	3°♍08'25	
evening set	-10433 Oct 25 j 04:18	6°♍04'42	
conjunction	-10433 Nov 10 j 02:51	6°♍58'37	0°26'15
minimum elong	-10433 Nov 10 j 02:51	6°♍58'37	0°26'32
max. Earth dist.	-10433 Nov 11 j 10:32	7°♍03'07	21.16103 AU
morning rise	-10433 Nov 26 j 05:45	7°♍53'08	
retrograde	-10432 Feb 29 j 01:16	10°♍59'30	
min. Earth dist.	-10432 May 16 j 02:33	9°♍03'11	19.16778 AU
opposition	-10432 May 17 j 07:51	9°♍00'15	0°26'31
direct	-10432 Jul 31 j 09:47	7°♍04'38	
evening set	-10432 Oct 28 j 08:23	10°♍00'38	

conjunction	-10432 Nov 13 j 08:00	10°♍54'36	0°21'50
minimum elong	-10432 Nov 13 j 08:00	10°♍54'36	0°22'06
max. Earth dist.	-10432 Nov 14 j 15:05	10°♍59'01	21.17206 AU
morning rise	-10432 Nov 29 j 12:01	11°♍49'11	
retrograde	-10431 Mar 04 j 07:02	14°♍55'23	
min. Earth dist.	-10431 May 20 j 10:15	12°♍58'49	19.17597 AU
opposition	-10431 May 21 j 13:41	12°♍56'03	0°21'35
direct	-10431 Aug 04 j 13:39	11°♍00'23	
evening set	-10431 Nov 01 j 12:36	13°♍56'11	
conjunction	-10431 Nov 17 j 13:19	14°♍50'13	0°17'21
minimum elong	-10431 Nov 17 j 13:19	14°♍50'13	0°17'33
max. Earth dist.	-10431 Nov 18 j 18:54	14°♍54'24	21.17774 AU
morning rise	-10431 Dec 03 j 18:28	15°♍44'51	
retrograde	-10430 Mar 08 j 14:52	18°♍50'54	
opposition	-10430 May 25 j 18:53	16°♍51'30	0°16'34
min. Earth dist.	-10430 May 24 j 15:56	16°♍54'13	19.17907 AU
direct	-10430 Aug 08 j 17:32	14°♍55'45	
evening set	-10430 Nov 05 j 16:56	17°♍51'26	
conjunction	-10430 Nov 21 j 18:42	18°♍45'33	0°12'47
minimum elong	-10430 Nov 21 j 18:42	18°♍45'33	0°12'58
behind sun begin	-10430 Nov 21 j 14:40	18°♍45'00	
behind sun end	-10430 Nov 21 j 22:44	18°♍46'06	
max. Earth dist.	-10430 Nov 22 j 23:38	18°♍49'38	21.17839 AU
morning rise	-10430 Dec 08 j 00:54	19°♍40'16	
retrograde	-10429 Mar 12 j 20:32	22°♍46'14	
opposition	-10429 May 29 j 23:58	20°♍46'45	0°11'29
min. Earth dist.	-10429 May 28 j 22:46	20°♍49'17	19.17744 AU
direct	-10429 Aug 12 j 20:55	18°♍50'54	
evening set	-10429 Nov 09 j 21:16	21°♍46'33	
conjunction	-10429 Nov 26 j 00:08	22°♍40'46	0°08'11
minimum elong	-10429 Nov 26 j 00:08	22°♍40'46	0°08'18
behind sun begin	-10429 Nov 25 j 18:17	22°♍39'57	
behind sun end	-10429 Nov 26 j 06:00	22°♍41'34	
max. Earth dist.	-10429 Nov 27 j 03:34	22°♍44'38	21.17471 AU
morning rise	-10429 Dec 12 j 07:28	23°♍35'35	
retrograde	-10428 Mar 16 j 04:48	26°♍41'31	
min. Earth dist.	-10428 Jun 01 j 04:02	24°♍44'27	19.17160 AU
opposition	-10428 Jun 02 j 04:45	24°♍41'57	0°06'21
direct	-10428 Aug 16 j 00:26	22°♍46'00	
evening set	-10428 Nov 13 j 02:06	25°♍41'44	
conjunction	-10428 Nov 29 j 06:04	26°♍36'03	0°03'32
minimum elong	-10428 Nov 29 j 06:04	26°♍36'03	0°03'39
behind sun begin	-10428 Nov 28 j 23:28	26°♍35'09	
behind sun end	-10428 Nov 29 j 12:40	26°♍36'57	
max. Earth dist.	-10428 Nov 30 j 08:40	26°♍39'48	21.16673 AU
morning rise	-10428 Dec 15 j 14:25	27°♍30'59	
	-10427 Feb 08 j 21:35	0°♎	
retrograde	-10427 Mar 20 j 10:35	0°♎36'55	
	-10427 Apr 29 j 16:51	30°℞♍	
min. Earth dist.	-10427 Jun 05 j 10:28	28°♍39'37	19.16155 AU
opposition	-10427 Jun 06 j 09:17	28°♍37'18	0°01'11
direct	-10427 Aug 20 j 03:07	26°♍41'15	
desc. node	-10427 Aug 27 j 21:03	26°♍42'48	
evening set	-10427 Nov 17 j 07:15	29°♍37'09	
	-10427 Nov 24 j 03:59	0°♎	
conjunction	-10427 Dec 03 j 12:19	0°♎31'36	-0°01'15
minimum elong	-10427 Dec 03 j 12:19	0°♎31'36	0°01'12
behind sun begin	-10427 Dec 03 j 05:39	0°♎30'41	
behind sun end	-10427 Dec 03 j 18:59	0°♎32'30	
max. Earth dist.	-10427 Dec 04 j 13:02	0°♎35'05	21.15478 AU
morning rise	-10427 Dec 19 j 21:46	1°♎26'39	
retrograde	-10426 Mar 24 j 19:36	4°♎32'40	

Attention, astronomical year style is used: The year -10426 in astronomical counting style is the year 10427 BCE in historical counting style.

opposition	-10426 Jun 10 j 13:45	2°♎33'00	-0°03'59
min. Earth dist.	-10426 Jun 09 j 15:41	2°♎35'15	19.14748 AU
direct	-10426 Aug 24 j 06:52	0°♎36'50	
evening set	-10426 Nov 21 j 12:43	3°♎32'59	
conjunction	-10426 Dec 07 j 18:50	4°♎27'35	-0°05'58
minimum elong	-10426 Dec 07 j 18:50	4°♎27'35	0°05'57
behind sun begin	-10426 Dec 07 j 12:28	4°♎26'43	
behind sun end	-10426 Dec 08 j 01:12	4°♎28'27	
max. Earth dist.	-10426 Dec 08 j 18:34	4°♎30'55	21.13856 AU
morning rise	-10426 Dec 24 j 05:14	5°♎22'47	
retrograde	-10425 Mar 29 j 01:50	8°♎28'55	
opposition	-10425 Jun 14 j 18:14	6°♎29'14	-0°09'10
min. Earth dist.	-10425 Jun 13 j 22:14	6°♎31'16	19.12911 AU
direct	-10425 Aug 28 j 08:59	4°♎32'58	
evening set	-10425 Nov 25 j 18:45	7°♎29'27	
conjunction	-10425 Dec 12 j 01:57	8°♎24'12	-0°10'37
minimum elong	-10425 Dec 12 j 01:57	8°♎24'12	0°10'38
behind sun begin	-10425 Dec 11 j 20:48	8°♎23'30	
behind sun end	-10425 Dec 12 j 07:05	8°♎24'54	
max. Earth dist.	-10425 Dec 12 j 23:30	8°♎27'14	21.11819 AU
morning rise	-10425 Dec 28 j 13:23	9°♎19'33	
retrograde	-10424 Apr 01 j 11:14	12°♎25'52	
opposition	-10424 Jun 17 j 22:37	10°♎26'09	-0°14'19
min. Earth dist.	-10424 Jun 17 j 03:49	10°♎28'04	19.10646 AU
direct	-10424 Aug 31 j 13:24	8°♎29'44	
evening set	-10424 Nov 29 j 01:25	11°♎26'39	
conjunction	-10424 Dec 15 j 09:43	12°♎21'36	-0°15'15
minimum elong	-10424 Dec 15 j 09:43	12°♎21'36	0°15'20
behind sun begin	-10424 Dec 15 j 07:56	12°♎21'21	
behind sun end	-10424 Dec 15 j 11:30	12°♎21'51	
max. Earth dist.	-10424 Dec 16 j 05:51	12°♎24'26	21.09316 AU
morning rise	-10424 Dec 31 j 22:03	13°♎17'07	
retrograde	-10423 Apr 05 j 18:31	16°♎23'38	
min. Earth dist.	-10423 Jun 21 j 10:52	14°♎25'34	19.07894 AU
opposition	-10423 Jun 22 j 03:13	14°♎23'54	-0°19'25
direct	-10423 Sep 04 j 16:01	12°♎27'20	
evening set	-10423 Dec 03 j 08:48	15°♎24'46	
conjunction	-10423 Dec 19 j 18:04	16°♎19'53	-0°19'50
minimum elong	-10423 Dec 19 j 18:04	16°♎19'53	0°19'56
max. Earth dist.	-10423 Dec 20 j 11:29	16°♎22'21	21.06322 AU
morning rise	-10422 Jan 05 j 07:21	17°♎15'35	
retrograde	-10422 Apr 10 j 03:58	20°♎22'21	
opposition	-10422 Jun 26 j 07:49	18°♎22'34	-0°24'27
min. Earth dist.	-10422 Jun 25 j 17:05	18°♎24'05	19.04638 AU
direct	-10422 Sep 08 j 20:54	16°♎25'48	
evening set	-10422 Dec 07 j 16:48	19°♎23'49	
conjunction	-10422 Dec 24 j 03:06	20°♎19'10	-0°24'20
minimum elong	-10422 Dec 24 j 03:06	20°♎19'10	0°24'29
max. Earth dist.	-10422 Dec 24 j 18:42	20°♎21'22	21.02791 AU
morning rise	-10421 Jan 09 j 17:08	21°♎15'03	
retrograde	-10421 Apr 14 j 12:09	24°♎22'05	
opposition	-10421 Jun 30 j 12:47	22°♎22'14	-0°29'23
min. Earth dist.	-10421 Jun 30 j 00:41	22°♎23'29	19.00834 AU
direct	-10421 Sep 13 j 00:52	20°♎25'14	
evening set	-10421 Dec 12 j 01:22	23°♎23'53	
conjunction	-10421 Dec 28 j 12:39	24°♎19'27	-0°28'44
minimum elong	-10421 Dec 28 j 12:39	24°♎19'27	0°28'54
max. Earth dist.	-10421 Dec 29 j 01:07	24°♎21'12	20.98725 AU
morning rise	-10420 Jan 14 j 03:37	25°♎15'32	
retrograde	-10420 Apr 17 j 21:47	28°♎22'53	
opposition	-10420 Jul 03 j 17:56	26°♎22'55	-0°34'11
min. Earth dist.	-10420 Jul 03 j 07:40	26°♎23'59	18.96488 AU
direct	-10420 Sep 16 j 06:08	24°♎25'37	
evening set	-10420 Dec 15 j 10:47	27°♎24'59	
conjunction	-10420 Dec 31 j 23:06	28°♎20'47	-0°33'00
minimum elong	-10420 Dec 31 j 23:05	28°♎20'47	0°33'13
max. Earth dist.	-10419 Jan 01 j 09:30	28°♎22'15	20.94103 AU
morning rise	-10419 Jan 17 j 14:43	29°♎17'04	
	-10419 Jan 30 j 21:43	0°♏	
retrograde	-10419 Apr 22 j 06:37	2°♏24'43	
opposition	-10419 Jul 07 j 23:13	0°♏24'39	-0°38'51
min. Earth dist.	-10419 Jul 07 j 15:39	0°♏25'26	18.91604 AU
	-10419 Jul 17 j 23:24	30°℞♎	
direct	-10419 Sep 20 j 11:38	28°♎27'01	
	-10419 Nov 21 j 13:51	0°♏	
evening set	-10419 Dec 19 j 20:53	1°♏27'09	
conjunction	-10418 Jan 05 j 10:03	2°♏23'11	-0°37'08
minimum elong	-10418 Jan 05 j 10:03	2°♏23'11	0°37'24
max. Earth dist.	-10418 Jan 05 j 17:08	2°♏24'11	20.88990 AU
morning rise	-10418 Jan 22 j 02:29	3°♏19'41	
retrograde	-10418 Apr 26 j 16:26	6°♏27'42	
opposition	-10418 Jul 12 j 04:48	4°♏27'27	-0°43'20
min. Earth dist.	-10418 Jul 11 j 23:07	4°♏28'02	18.86262 AU
direct	-10418 Sep 24 j 17:35	2°♏29'26	
evening set	-10418 Dec 24 j 07:29	5°♏30'25	
conjunction	-10417 Jan 09 j 21:35	6°♏26'42	-0°41'05
minimum elong	-10417 Jan 09 j 21:35	6°♏26'42	0°41'22
max. Earth dist.	-10417 Jan 10 j 02:54	6°♏27'27	20.83431 AU
morning rise	-10417 Jan 26 j 14:31	7°♏23'25	
retrograde	-10417 May 01 j 01:58	10°♏31'49	
opposition	-10417 Jul 16 j 10:44	8°♏31'25	-0°47'37
min. Earth dist.	-10417 Jul 16 j 07:28	8°♏31'45	18.80513 AU
direct	-10417 Sep 28 j 23:57	6°♏33'01	
evening set	-10417 Dec 28 j 19:00	9°♏34'55	
conjunction	-10416 Jan 14 j 09:51	10°♏31'27	-0°44'51
minimum elong	-10416 Jan 14 j 09:51	10°♏31'27	0°45'11
max. Earth dist.	-10416 Jan 14 j 11:54	10°♏31'45	20.77521 AU
morning rise	-10416 Jan 31 j 03:31	11°♏28'24	
retrograde	-10416 May 04 j 12:43	14°♏37'14	
opposition	-10416 Jul 19 j 16:50	12°♏36'39	-0°51'41
min. Earth dist.	-10416 Jul 19 j 15:27	12°♏36'48	18.74452 AU
direct	-10416 Oct 02 j 07:03	10°♏37'50	
evening set	-10415 Jan 01 j 07:20	13°♏40'44	
conjunction	-10415 Jan 17 j 23:03	14°♏37'33	-0°48'24
minimum elong	-10415 Jan 17 j 23:03	14°♏37'33	0°48'46
max. Earth dist.	-10415 Jan 17 j 23:28	14°♏37'37	20.71309 AU
	-10415 Jan 24 j 11:44	15°♏	
morning rise	-10415 Feb 03 j 17:05	15°♏34'44	
retrograde	-10415 May 08 j 23:10	18°♏44'01	
opposition	-10415 Jul 23 j 23:32	16°♏43'18	-0°55'31
min. Earth dist.	-10415 Jul 24 j 00:24	16°♏43'13	18.68116 AU
	-10415 Sep 11 j 17:18	15°℞♏	
direct	-10415 Oct 06 j 13:55	14°♏44'05	
	-10415 Oct 31 j 08:23	15°♏	
evening set	-10414 Jan 05 j 20:28	17°♏48'04	
conjunction	-10414 Jan 22 j 12:47	18°♏45'09	-0°51'44
minimum elong	-10414 Jan 22 j 12:47	18°♏45'09	0°52'08
max. Earth dist.	-10414 Jan 22 j 09:55	18°♏44'45	20.64868 AU
morning rise	-10414 Feb 08 j 07:21	19°♏42'35	
retrograde	-10414 May 13 j 11:21	22°♏52'23	
opposition	-10414 Jul 28 j 06:39	20°♏51'32	-0°59'05
min. Earth dist.	-10414 Jul 28 j 09:18	20°♏51'15	18.61586 AU

Attention, astronomical year style is used: The year -10414 in astronomical counting style is the year 10415 BCE in historical counting style.

direct	-10414 Oct 10 j 22:30	18°♏51'54		
evening set	-10413 Jan 10 j 10:23	21°♏57'02		
conjunction	-10413 Jan 27 j 03:29	22°♏54'26	-0°54'49	
minimum elong	-10413 Jan 27 j 03:29	22°♏54'26	0°55'15	
max. Earth dist.	-10413 Jan 26 j 23:12	22°♏53'49	20.58243 AU	
morning rise	-10413 Feb 12 j 22:16	23°♏52'06		
retrograde	-10413 May 17 j 22:41	27°♏02'26		
opposition	-10413 Aug 01 j 14:21	25°♏01'30	-1°02'23	
min. Earth dist.	-10413 Aug 01 j 19:04	25°♏01'00	18.54888 AU	
direct	-10413 Oct 15 j 06:20	23°♏01'30		
evening set	-10412 Jan 15 j 01:18	26°♏07'51		
conjunction	-10412 Jan 31 j 18:55	27°♏05'32	-0°57'38	
minimum elong	-10412 Jan 31 j 18:54	27°♏05'32	0°58'06	
max. Earth dist.	-10412 Jan 31 j 11:15	27°♏04'25	20.51484 AU	
morning rise	-10412 Feb 17 j 14:10	28°♏03'28		
	-10412 Mar 27 j 02:10	0°♐		
retrograde	-10412 May 21 j 12:20	1°♐14'24		
	-10412 Jul 17 j 02:06	30°℞♏		
opposition	-10412 Aug 04 j 22:43	29°♏13'22	-1°05'23	
min. Earth dist.	-10412 Aug 05 j 05:23	29°♏12'40	18.48066 AU	
direct	-10412 Oct 18 j 16:26	27°♏12'59		
	-10411 Jan 12 j 13:49	0°♐		
evening set	-10411 Jan 18 j 17:13	0°♐20'38		
conjunction	-10411 Feb 04 j 11:31	1°♐18'38	-1°00'10	
minimum elong	-10411 Feb 04 j 11:30	1°♐18'38	1°00'40	
max. Earth dist.	-10411 Feb 04 j 02:27	1°♐17'19	20.44589 AU	
morning rise	-10411 Feb 21 j 06:48	2°♐16'49		
retrograde	-10411 May 26 j 01:14	5°♐28'21		
opposition	-10411 Aug 09 j 07:42	3°♐27'17	-1°08'03	
min. Earth dist.	-10411 Aug 09 j 16:26	3°♐26'22	18.41110 AU	
direct	-10411 Oct 23 j 02:13	1°♐26'33		
evening set	-10410 Jan 23 j 10:17	4°♐35'33		
conjunction	-10410 Feb 09 j 04:52	5°♐33'50	-1°02'24	
minimum elong	-10410 Feb 09 j 04:52	5°♐33'50	1°02'54	
max. Earth dist.	-10410 Feb 08 j 16:14	5°♐32'00	20.37579 AU	
morning rise	-10410 Feb 26 j 00:27	6°♐32'17		
retrograde	-10410 May 30 j 15:57	9°♐44'29		
opposition	-10410 Aug 13 j 17:31	7°♐43'22	-1°10'22	
min. Earth dist.	-10410 Aug 14 j 04:27	7°♐42'12	18.34046 AU	
direct	-10410 Oct 27 j 13:36	5°♐42'15		
evening set	-10409 Jan 28 j 04:03	8°♐52'39		
conjunction	-10409 Feb 13 j 23:12	9°♐51'15	-1°04'18	
minimum elong	-10409 Feb 13 j 23:12	9°♐51'15	1°04'50	
max. Earth dist.	-10409 Feb 13 j 09:13	9°♐49'12	20.30438 AU	
morning rise	-10409 Mar 02 j 18:40	10°♐49'57		
retrograde	-10409 Jun 04 j 07:03	14°♐02'49		
opposition	-10409 Aug 18 j 04:08	12°♐01'39	-1°12'18	
min. Earth dist.	-10409 Aug 18 j 17:04	12°♐00'17	18.26838 AU	
direct	-10409 Nov 01 j 01:36	10°♐00'10		
evening set	-10408 Feb 01 j 23:15	13°♐12'00		
conjunction	-10408 Feb 18 j 18:33	14°♐10'54	-1°05'51	
minimum elong	-10408 Feb 18 j 18:32	14°♐10'53	1°06'23	
max. Earth dist.	-10408 Feb 18 j 00:42	14°♐08'16	20.23159 AU	
morning rise	-10408 Mar 06 j 14:09	15°♐09'51		
retrograde	-10408 Jun 07 j 22:59	18°♐23'23		
opposition	-10408 Aug 21 j 15:30	16°♐22'10	-1°13'50	
min. Earth dist.	-10408 Aug 22 j 06:58	16°♐20'31	18.19496 AU	
direct	-10408 Nov 04 j 14:37	14°♐20'15		
evening set	-10407 Feb 05 j 19:20	17°♐33'32		
conjunction	-10407 Feb 22 j 15:03	18°♐32'44	-1°07'01	
minimum elong	-10407 Feb 22 j 15:03	18°♐32'44	1°07'35	
max. Earth dist.	-10407 Feb 21 j 19:42	18°♐29'53	20.15734 AU	
morning rise	-10407 Mar 11 j 10:22	19°♐31'57		
retrograde	-10407 Jun 12 j 16:07	22°♐46'07		
opposition	-10407 Aug 26 j 03:51	20°♐44'50	-1°14'58	
min. Earth dist.	-10407 Aug 26 j 21:07	20°♐42'59	18.12006 AU	
direct	-10407 Nov 09 j 04:53	18°♐42'30		
evening set	-10406 Feb 10 j 16:24	21°♐57'13		
conjunction	-10406 Feb 27 j 12:04	22°♐56'42	-1°07'49	
minimum elong	-10406 Feb 27 j 12:04	22°♐56'42	1°08'24	
max. Earth dist.	-10406 Feb 26 j 12:59	22°♐53'17	20.08188 AU	
morning rise	-10406 Mar 16 j 07:19	23°♐56'10		
retrograde	-10406 Jun 17 j 09:17	27°♐11'00		
opposition	-10406 Aug 30 j 17:02	25°♐09'36	-1°15'39	
min. Earth dist.	-10406 Aug 31 j 12:46	25°♐07'28	18.04430 AU	
direct	-10406 Nov 13 j 19:44	23°♐06'47		
evening set	-10405 Feb 15 j 14:14	26°♐22'57		
max. Earth dist.	-10405 Mar 03 j 09:51	27°♐19'06	20.00581 AU	
conjunction	-10405 Mar 04 j 10:10	27°♐22'44	-1°08'12	
minimum elong	-10405 Mar 04 j 10:10	27°♐22'44	1°08'47	
morning rise	-10405 Mar 21 j 05:01	28°♐22'26		
	-10405 Apr 20 j 10:13	0°♑		
retrograde	-10405 Jun 22 j 03:51	1°♑37'53		
	-10405 Aug 26 j 02:27	30°℞♐		
opposition	-10405 Sep 04 j 06:54	29°♐36'21	-1°15'54	
min. Earth dist.	-10405 Sep 05 j 04:01	29°♐34'05	17.96816 AU	
direct	-10405 Nov 18 j 11:43	27°♐33'05		
	-10404 Feb 05 j 15:01	0°♑		
evening set	-10404 Feb 20 j 13:07	0°♑50'40		
max. Earth dist.	-10404 Mar 07 j 05:17	1°♑46'36	19.92980 AU	
conjunction	-10404 Mar 08 j 08:55	1°♑50'45	-1°08'11	
minimum elong	-10404 Mar 08 j 08:55	1°♑50'45	1°08'48	
morning rise	-10404 Mar 25 j 03:33	2°♑50'41		
retrograde	-10404 Jun 25 j 22:23	6°♑06'45		
opposition	-10404 Sep 07 j 21:45	4°♑05'05	-1°15'41	
min. Earth dist.	-10404 Sep 08 j 21:15	4°♑02'32	17.89259 AU	
direct	-10404 Nov 22 j 04:29	2°♑01'18		
evening set	-10403 Feb 24 j 12:40	5°♑20'20		
max. Earth dist.	-10403 Mar 12 j 03:57	6°♑16'22	19.85470 AU	
conjunction	-10403 Mar 13 j 08:29	6°♑20'40	-1°07'46	
minimum elong	-10403 Mar 13 j 08:29	6°♑20'40	1°08'21	
morning rise	-10403 Mar 30 j 02:34	7°♑20'50		
retrograde	-10403 Jun 30 j 17:58	10°♑37'30		
opposition	-10403 Sep 12 j 13:22	8°♑35'42	-1°15'01	
min. Earth dist.	-10403 Sep 13 j 13:40	8°♑33'03	17.81824 AU	
direct	-10403 Nov 26 j 22:35	6°♑31'28		
evening set	-10402 Mar 01 j 13:05	9°♑51'53		
max. Earth dist.	-10402 Mar 17 j 01:33	10°♑47'47	19.78131 AU	
conjunction	-10402 Mar 18 j 08:36	10°♑52'29	-1°06'55	
minimum elong	-10402 Mar 18 j 08:36	10°♑52'29	1°07'30	
morning rise	-10402 Apr 04 j 02:12	11°♑52'51		
retrograde	-10402 Jul 05 j 13:24	15°♑10'08		
opposition	-10402 Sep 17 j 06:00	13°♑08'11	-1°13'52	
min. Earth dist.	-10402 Sep 18 j 08:22	13°♑05'19	17.74621 AU	
direct	-10402 Dec 01 j 16:53	11°♑03'30		
evening set	-10401 Mar 06 j 13:58	14°♑25'18		
max. Earth dist.	-10401 Mar 22 j 01:41	15°♑21'21	19.71062 AU	
conjunction	-10401 Mar 23 j 09:19	15°♑26'10	-1°05'38	
minimum elong	-10401 Mar 23 j 09:19	15°♑26'10	1°06'13	
morning rise	-10401 Apr 09 j 02:18	16°♑26'43		
retrograde	-10401 Jul 10 j 10:17	19°♑44'36		

Attention, astronomical year style is used: The year -10401 in astronomical counting style is the year 10402 BCE in historical counting style.

opposition	-10401 Sep 21 j 23:25	17°♉42'32	-1°12'15
min. Earth dist.	-10401 Sep 23 j 02:00	17°♉39'38	17.67704 AU
direct	-10401 Dec 06 j 13:30	15°♉37'27	
evening set	-10400 Mar 10 j 15:52	19°♉00'37	
max. Earth dist.	-10400 Mar 26 j 01:25	19°♉56'36	19.64311 AU
conjunction	-10400 Mar 27 j 10:46	20°♉01'42	-1°03'57
minimum elong	-10400 Mar 27 j 10:46	20°♉01'42	1°04'30
morning rise	-10400 Apr 13 j 03:03	21°♉02'26	
retrograde	-10400 Jul 14 j 06:25	24°♉20'54	
opposition	-10400 Sep 25 j 17:50	22°♉18'46	-1°10'09
min. Earth dist.	-10400 Sep 26 j 22:17	22°♉15'40	17.61151 AU
direct	-10400 Dec 10 j 09:26	20°♉13'18	
evening set	-10399 Mar 15 j 18:22	23°♉37'49	
max. Earth dist.	-10399 Mar 31 j 02:56	24°♉33'54	19.57962 AU
conjunction	-10399 Apr 01 j 12:50	24°♉39'06	-1°01'50
minimum elong	-10399 Apr 01 j 12:50	24°♉39'06	1°02'23
morning rise	-10399 Apr 18 j 04:22	25°♉40'00	
retrograde	-10399 Jul 19 j 04:50	28°♉59'04	
opposition	-10399 Sep 30 j 13:12	26°♉56'53	-1°07'36
min. Earth dist.	-10399 Oct 01 j 17:23	26°♉53'48	17.55010 AU
direct	-10399 Dec 15 j 08:19	24°♉51'07	