Attention, astronomical year style is used: The year -11900 in astronomical counting style is the year 11901 BCE in historical counting style.

direct	-11900 Jan 24 j 00:57	23°♒30'39	
evening set	-11900 Apr 29 j 13:00	27°♒03'13	
conjunction	-11900 May 15 j 19:04	28°♒04'46	-0°24'34
minimum elong	-11900 May 15 j 19:05	28°♒04'46	0°24'58
max. Earth dist.	-11900 May 14 j 14:12	28°♒00'10	19.25134 AU
morning rise	-11900 May 31 j 20:50	29°♒05'39	
	-11900 Jun 15 j 22:32	0°♓	
retrograde	-11900 Aug 30 j 19:28	2°♓28'04	
opposition	-11900 Nov 12 j 06:50	0°♓26'22	-0°24'14
min. Earth dist.	-11900 Nov 13 j 07:49	0°♓23'40	17.25351 AU
	-11900 Nov 22 j 12:44	30°℞♒	
direct	-11899 Jan 28 j 05:03	28°♒19'48	
	-11899 Apr 01 j 14:59	0°♓	
evening set	-11899 May 04 j 16:29	1°♓52'20	
conjunction	-11899 May 20 j 21:25	2°♓53'44	-0°18'39
minimum elong	-11899 May 20 j 21:26	2°♓53'45	0°18'59
max. Earth dist.	-11899 May 19 j 19:05	2°♓49'33	19.25607 AU
morning rise	-11899 Jun 05 j 21:55	3°♓54'31	
retrograde	-11899 Sep 04 j 21:32	7°♓16'58	
opposition	-11899 Nov 17 j 10:46	5°♓15'20	-0°17'32
min. Earth dist.	-11899 Nov 18 j 10:01	5°♓12'50	17.26059 AU
direct	-11898 Feb 02 j 11:15	3°♓08'57	
evening set	-11898 May 09 j 19:43	6°♓41'16	
conjunction	-11898 May 25 j 23:16	7°♓42'31	-0°12'37
minimum elong	-11898 May 25 j 23:16	7°♓42'31	0°12'54
behind sun begin	-11898 May 25 j 19:09	7°♓41'53	
behind sun end	-11898 May 26 j 03:23	7°♓43'10	
max. Earth dist.	-11898 May 24 j 22:01	7°♓38'30	19.26568 AU
morning rise	-11898 Jun 10 j 22:36	8°♓43'08	
retrograde	-11898 Sep 09 j 21:23	12°♓05'36	
opposition	-11898 Nov 22 j 14:59	10°♓04'00	-0°10'44
min. Earth dist.	-11898 Nov 23 j 13:06	10°♓01'37	17.27270 AU
direct	-11897 Feb 07 j 16:09	7°♓57'47	
evening set	-11897 May 14 j 22:19	11°♓29'47	
max. Earth dist.	-11897 May 30 j 01:52	12°♓27'12	19.28035 AU
conjunction	-11897 May 31 j 00:38	12°♓30'50	-0°06'30
minimum elong	-11897 May 31 j 00:38	12°♓30'50	0°06'44
behind sun begin	-11897 May 30 j 18:26	12°♓29'52	
behind sun end	-11897 May 31 j 06:50	12°♓31'47	
morning rise	-11897 Jun 15 j 22:48	13°♓31'17	
retrograde	-11897 Sep 14 j 22:41	16°♓53'39	
opposition	-11897 Nov 27 j 19:20	14°♓52'05	-0°03'52
min. Earth dist.	-11897 Nov 28 j 14:54	14°♓49'59	17.28969 AU
direct	-11896 Feb 12 j 23:36	12°♓46'04	
evening set	-11896 May 19 j 00:10	16°♓17'33	
max. Earth dist.	-11896 Jun 03 j 04:25	17°♓15'06	19.29990 AU
conjunction	-11896 Jun 04 j 01:15	17°♓18'24	-0°00'19
minimum elong	-11896 Jun 04 j 01:13	17°♓18'24	0°00'30
behind sun begin	-11896 Jun 03 j 18:36	17°♓17'23	
behind sun end	-11896 Jun 04 j 07:49	17°♓19'26	
morning rise	-11896 Jun 19 j 22:17	18°♓18'40	
asc. node	-11896 Jun 22 j 08:46	18°♓27'43	
retrograde	-11896 Sep 18 j 21:28	21°♓40'55	
opposition	-11896 Dec 01 j 23:43	19°♓39'21	0°03'00
min. Earth dist.	-11896 Dec 02 j 18:07	19°♓37'23	17.31177 AU
direct	-11895 Feb 17 j 04:07	17°♓33'30	
evening set	-11895 May 24 j 01:23	21°♓04'24	
max. Earth dist.	-11895 Jun 08 j 06:43	22°♓02'05	19.32459 AU
conjunction	-11895 Jun 09 j 01:11	22°♓05'01	0°05'54
minimum elong	-11895 Jun 09 j 01:10	22°♓05'01	0°05'47
behind sun begin	-11895 Jun 08 j 18:50	22°♓04'02	
behind sun end	-11895 Jun 09 j 07:30	22°♓05'59	
morning rise	-11895 Jun 24 j 21:13	23°♓05'04	
retrograde	-11895 Sep 23 j 22:06	26°♓27'07	
opposition	-11895 Dec 07 j 03:45	24°♓25'33	0°09'50
min. Earth dist.	-11895 Dec 07 j 19:04	24°♓23'55	17.33889 AU
direct	-11894 Feb 22 j 10:48	22°♓19'55	
evening set	-11894 May 29 j 01:48	25°♓50'05	
max. Earth dist.	-11894 Jun 13 j 08:45	26°♓47'58	19.35437 AU
conjunction	-11894 Jun 14 j 00:23	26°♓50'27	0°11'57
minimum elong	-11894 Jun 14 j 00:23	26°♓50'27	0°11'53
behind sun begin	-11894 Jun 13 j 19:44	26°♓49'43	
behind sun end	-11894 Jun 14 j 05:01	26°♓51'10	
morning rise	-11894 Jun 29 j 19:19	27°♓50'17	
	-11894 Aug 08 j 06:26	0°♈	
retrograde	-11894 Sep 28 j 20:20	1°♈12'05	
	-11894 Nov 22 j 08:46	30°℞♓	
opposition	-11894 Dec 12 j 08:00	29°♓10'31	0°16'33
min. Earth dist.	-11894 Dec 12 j 21:52	29°♓09'03	17.37138 AU
direct	-11893 Feb 27 j 14:13	27°♓05'07	
	-11893 May 24 j 14:36	0°♈	
evening set	-11893 Jun 03 j 01:16	0°♈34'27	
conjunction	-11893 Jun 18 j 22:34	1°♈34'32	0°17'53
minimum elong	-11893 Jun 18 j 22:33	1°♈34'32	0°17'52
max. Earth dist.	-11893 Jun 18 j 09:20	1°♈32'26	19.38966 AU
morning rise	-11893 Jul 04 j 16:38	2°♈34'09	
retrograde	-11893 Oct 03 j 20:43	5°♈55'40	
opposition	-11893 Dec 17 j 11:50	3°♈54'07	0°23'07
min. Earth dist.	-11893 Dec 17 j 22:00	3°♈53'02	17.40935 AU
direct	-11892 Mar 03 j 19:21	1°♈48'59	
evening set	-11892 Jun 06 j 23:55	5°♈17'23	
conjunction	-11892 Jun 22 j 20:09	6°♈17'11	0°23'42
minimum elong	-11892 Jun 22 j 20:09	6°♈17'11	0°23'44
max. Earth dist.	-11892 Jun 22 j 10:26	6°♈15'39	19.43038 AU
morning rise	-11892 Jul 08 j 13:11	7°♈16'33	
retrograde	-11892 Oct 07 j 18:18	10°♈37'45	
opposition	-11892 Dec 21 j 15:20	8°♈36'14	0°29'30
min. Earth dist.	-11892 Dec 21 j 23:50	8°♈35'20	17.45290 AU
direct	-11891 Mar 08 j 21:15	6°♈31'26	
evening set	-11891 Jun 11 j 21:47	9°♈58'50	
conjunction	-11891 Jun 27 j 16:48	10°♈58'21	0°29'19
minimum elong	-11891 Jun 27 j 16:48	10°♈58'21	0°29'25
max. Earth dist.	-11891 Jun 27 j 09:11	10°♈57'09	19.47673 AU
morning rise	-11891 Jul 13 j 09:08	11°♈57'28	
retrograde	-11891 Oct 12 j 18:23	15°♈18'19	
opposition	-11891 Dec 26 j 18:26	13°♈16'52	0°35'40
min. Earth dist.	-11891 Dec 26 j 23:04	13°♈16'23	17.50186 AU
direct	-11890 Mar 14 j 00:44	11°♈12'27	
evening set	-11890 Jun 16 j 18:37	14°♈38'47	
conjunction	-11890 Jul 02 j 12:41	15°♈38'00	0°34'44
minimum elong	-11890 Jul 02 j 12:41	15°♈38'00	0°34'53
max. Earth dist.	-11890 Jul 02 j 08:57	15°♈37'25	19.52822 AU
morning rise	-11890 Jul 18 j 04:06	16°♈36'52	
retrograde	-11890 Oct 17 j 15:12	19°♈57'21	
opposition	-11890 Dec 31 j 21:21	17°♈56'01	0°41'34
min. Earth dist.	-11889 Jan 01 j 00:04	17°♈55'44	17.55578 AU
direct	-11889 Mar 19 j 02:01	15°♈52'01	
evening set	-11889 Jun 21 j 14:46	19°♈17'13	

Command: swevents -p7 -doall -doing45 -mpdf -eswe -b1.1.-11900 -n183366 -roundmin

Attention, astronomical year style is used: The year -11889 in astronomical counting style is the year 11890 BCE in historical counting style.

conjunction	-11889 Jul	07 j 07:43	20°♈16'08	0°39'53
minimum elong	-11889 Jul	07 j 07:43	20°♈16'08	0°40'06
max. Earth dist.	-11889 Jul	07 j 05:54	20°♈15'51	19.58451 AU
morning rise	-11889 Jul	22 j 22:36	21°♈14'44	
retrograde	-11889 Oct	22 j 14:22	24°♈34'50	
opposition	-11888 Jan	05 j 23:38	22°♈33'37	0°47'09
min. Earth dist.	-11888 Jan	05 j 22:45	22°♈33'42	17.61420 AU
direct	-11888 Mar	23 j 04:11	20°♈30'04	
evening set	-11888 Jun	25 j 09:48	23°♈54'05	
conjunction	-11888 Jul	11 j 02:02	24°♈52'42	0°44'46
minimum elong	-11888 Jul	11 j 02:01	24°♈52'42	0°45'01
max. Earth dist.	-11888 Jul	11 j 04:06	24°♈53'01	19.64475 AU
morning rise	-11888 Jul	26 j 16:10	25°♈51'02	
retrograde	-11888 Oct	26 j 10:20	29°♈10'43	
opposition	-11887 Jan	10 j 01:31	27°♈09'38	0°52'25
min. Earth dist.	-11887 Jan	09 j 22:44	27°♈09'55	17.67608 AU
direct	-11887 Mar	28 j 04:39	25°♈06'34	
evening set	-11887 Jun	30 j 04:16	28°♈29'21	
conjunction	-11887 Jul	15 j 19:28	29°♈27'39	0°49'20
minimum elong	-11887 Jul	15 j 19:27	29°♈27'39	0°49'39
max. Earth dist.	-11887 Jul	15 j 23:05	29°♈28'13	19.70810 AU
	-11887 Jul	24 j 10:33	0°♉	
morning rise	-11887 Jul	31 j 09:13	0°♉25'43	
retrograde	-11887 Oct	31 j 07:58	3°♉44'57	
opposition	-11886 Jan	15 j 02:42	1°♉44'00	0°57'18
min. Earth dist.	-11886 Jan	14 j 20:53	1°♉44'36	17.74077 AU
	-11886 Mar	05 j 22:15	30°℞♈	
direct	-11886 Apr	02 j 05:22	29°♈41'23	
	-11886 Apr	28 j 22:47	0°♉	
evening set	-11886 Jul	04 j 21:42	3°♉02'55	
conjunction	-11886 Jul	20 j 12:18	4°♉00'54	0°53'33
minimum elong	-11886 Jul	20 j 12:17	4°♉00'54	0°53'54
max. Earth dist.	-11886 Jul	20 j 19:33	4°♉02'02	19.77379 AU
morning rise	-11886 Aug	05 j 01:26	4°♉58'41	
retrograde	-11886 Nov	05 j 02:48	8°♉17'27	
opposition	-11885 Jan	20 j 03:29	6°♉16'37	1°01'47
min. Earth dist.	-11885 Jan	19 j 19:37	6°♉17'26	17.80736 AU
direct	-11885 Apr	07 j 05:04	4°♉14'28	
evening set	-11885 Jul	09 j 14:19	7°♉34'40	
conjunction	-11885 Jul	25 j 04:05	8°♉32'20	0°57'25
minimum elong	-11885 Jul	25 j 04:04	8°♉32'20	0°57'48
max. Earth dist.	-11885 Jul	25 j 12:42	8°♉33'40	19.84108 AU
morning rise	-11885 Aug	09 j 17:04	9°♉29'52	
retrograde	-11885 Nov	09 j 22:46	12°♉48'07	
opposition	-11884 Jan	25 j 03:31	10°♉47'23	1°05'51
min. Earth dist.	-11884 Jan	24 j 17:07	10°♉48'27	17.87532 AU
direct	-11884 Apr	11 j 03:52	8°♉45'40	
evening set	-11884 Jul	13 j 05:59	12°♉04'31	
conjunction	-11884 Jul	28 j 19:22	13°♉01'53	1°00'53
minimum elong	-11884 Jul	28 j 19:22	13°♉01'53	1°01'19
max. Earth dist.	-11884 Jul	29 j 07:17	13°♉03'44	19.90934 AU
morning rise	-11884 Aug	13 j 07:56	13°♉59'10	
	-11884 Aug	30 j 19:17	15°♉	
retrograde	-11884 Nov	13 j 16:18	17°♉16'51	
opposition	-11883 Jan	29 j 02:35	15°♉16'12	1°09'28
min. Earth dist.	-11883 Jan	28 j 14:05	15°♉17'30	17.94384 AU
	-11883 Feb	04 j 16:43	15°℞♉	
direct	-11883 Apr	16 j 02:16	13°♉14'54	
	-11883 Jun	20 j 06:44	15°♉	
evening set	-11883 Jul	17 j 20:53	16°♉32'23	
conjunction	-11883 Aug	02 j 09:37	17°♉29'26	1°03'58
minimum elong	-11883 Aug	02 j 09:36	17°♉29'26	1°04'26
max. Earth dist.	-11883 Aug	02 j 22:43	17°♉31'28	19.97803 AU
morning rise	-11883 Aug	17 j 22:12	18°♉26'28	
retrograde	-11883 Nov	18 j 09:55	21°♉43'35	
min. Earth dist.	-11882 Feb	02 j 10:29	19°♉44'29	18.01279 AU
opposition	-11882 Feb	03 j 01:02	19°♉43'00	1°12'39
direct	-11882 Apr	20 j 22:36	17°♉42'04	
evening set	-11882 Jul	22 j 10:31	20°♉58'09	
conjunction	-11882 Aug	06 j 23:03	21°♉54'55	1°06'38
minimum elong	-11882 Aug	06 j 23:02	21°♉54'55	1°07'10
max. Earth dist.	-11882 Aug	07 j 15:20	21°♉57'25	20.04698 AU
morning rise	-11882 Aug	22 j 11:26	22°♉51'42	
retrograde	-11882 Nov	23 j 02:26	26°♉08'13	
opposition	-11881 Feb	07 j 22:36	24°♉07'40	1°15'22
min. Earth dist.	-11881 Feb	07 j 05:38	24°♉09'24	18.08177 AU
direct	-11881 Apr	25 j 19:32	22°♉07'06	
evening set	-11881 Jul	26 j 23:28	25°♉21'47	
conjunction	-11881 Aug	11 j 11:34	26°♉18'16	1°08'53
minimum elong	-11881 Aug	11 j 11:34	26°♉18'16	1°09'26
max. Earth dist.	-11881 Aug	12 j 05:12	26°♉20'57	20.11602 AU
morning rise	-11881 Aug	27 j 00:10	27°♉14'49	
	-11881 Oct	24 j 05:06	0°♊	
retrograde	-11881 Nov	27 j 17:59	0°♊30'43	
	-11880 Jan	02 j 10:21	30°℞♉	
opposition	-11880 Feb	12 j 19:11	28°♉30'11	1°17'37
min. Earth dist.	-11880 Feb	12 j 00:34	28°♉32'05	18.15107 AU
direct	-11880 Apr	29 j 13:00	26°♉29'56	
evening set	-11880 Jul	30 j 11:18	29°♉43'14	
	-11880 Aug	04 j 03:30	0°♊	
conjunction	-11880 Aug	14 j 23:24	0°♊39'27	1°10'44
minimum elong	-11880 Aug	14 j 23:23	0°♊39'27	1°11'19
max. Earth dist.	-11880 Aug	15 j 20:02	0°♊42'35	20.18532 AU
morning rise	-11880 Aug	30 j 12:00	1°♊35'45	
retrograde	-11880 Dec	01 j 09:23	4°♊51'01	
opposition	-11879 Feb	16 j 14:45	2°♊50'31	1°19'24
min. Earth dist.	-11879 Feb	15 j 17:30	2°♊52'41	18.22047 AU
direct	-11879 May	04 j 07:46	0°♊50'38	
evening set	-11879 Aug	03 j 22:24	4°♊02'33	
conjunction	-11879 Aug	19 j 10:13	4°♊58'29	1°12'10
minimum elong	-11879 Aug	19 j 10:13	4°♊58'29	1°12'46
max. Earth dist.	-11879 Aug	20 j 08:16	5°♊01'50	20.25478 AU
morning rise	-11879 Sep	03 j 23:08	5°♊54'35	
retrograde	-11879 Dec	05 j 23:30	9°♊09'14	
min. Earth dist.	-11878 Feb	20 j 10:51	7°♊11'05	18.29026 AU
opposition	-11878 Feb	21 j 09:31	7°♊08'47	1°20'44
direct	-11878 May	08 j 23:07	5°♊09'14	
evening set	-11878 Aug	08 j 08:35	8°♊19'49	
conjunction	-11878 Aug	23 j 20:33	9°♊15'31	1°13'11
minimum elong	-11878 Aug	23 j 20:33	9°♊15'31	1°13'48
max. Earth dist.	-11878 Aug	24 j 21:22	9°♊19'15	20.32467 AU
morning rise	-11878 Sep	08 j 09:39	10°♊11'24	
retrograde	-11878 Dec	10 j 14:05	13°♊25'26	
min. Earth dist.	-11877 Feb	25 j 01:51	11°♊27'38	18.36024 AU
opposition	-11877 Feb	26 j 03:16	11°♊25'03	1°21'37
direct	-11877 May	13 j 15:26	9°♊25'52	
evening set	-11877 Aug	12 j 18:05	12°♊35'09	
conjunction	-11877 Aug	28 j 06:03	13°♊30'37	1°13'48
minimum elong	-11877 Aug	28 j 06:02	13°♊30'37	1°14'27
max. Earth dist.	-11877 Aug	29 j 08:10	13°♊34'33	20.39459 AU
morning rise	-11877 Sep	12 j 19:42	14°♊26'20	
retrograde	-11877 Dec	15 j 03:32	17°♊39'46	

Attention, astronomical year style is used: The year -11876 in astronomical counting style is the year 11877 BCE in historical counting style.

opposition	-11876 Mar 01 j 20:17	15°♊39'28	1°22'02
min. Earth dist.	-11876 Feb 29 j 17:54	15°♊42'09	18.43016 AU
direct	-11876 May 17 j 04:56	13°♊40'40	
evening set	-11876 Aug 16 j 02:51	16°♊48'43	
conjunction	-11876 Aug 31 j 15:08	17°♊43'58	1°14'00
minimum elong	-11876 Aug 31 j 15:08	17°♊43'58	1°14'39
max. Earth dist.	-11876 Sep 01 j 19:31	17°♊48'13	20.46421 AU
morning rise	-11876 Sep 16 j 05:09	18°♊39'30	
retrograde	-11876 Dec 18 j 17:09	21°♊52'20	
min. Earth dist.	-11875 Mar 05 j 07:18	19°♊55'05	18.49931 AU
opposition	-11875 Mar 06 j 12:05	19°♊52'10	1°22'01
direct	-11875 May 21 j 19:15	17°♊53'45	
evening set	-11875 Aug 20 j 11:05	21°♊00'36	
conjunction	-11875 Sep 04 j 23:31	21°♊55'40	1°13'49
minimum elong	-11875 Sep 04 j 23:31	21°♊55'40	1°14'30
max. Earth dist.	-11875 Sep 06 j 04:57	22°♊00'03	20.53272 AU
morning rise	-11875 Sep 20 j 14:12	22°♊51'02	
retrograde	-11875 Dec 23 j 05:32	26°♊03'19	
min. Earth dist.	-11874 Mar 09 j 22:15	24°♊06'13	18.56719 AU
opposition	-11874 Mar 11 j 03:27	24°♊03'16	1°21'34
direct	-11874 May 26 j 07:13	22°♊05'14	
evening set	-11874 Aug 24 j 18:32	25°♊10'56	
conjunction	-11874 Sep 09 j 07:28	26°♊05'49	1°13'14
minimum elong	-11874 Sep 09 j 07:28	26°♊05'49	1°13'55
max. Earth dist.	-11874 Sep 10 j 14:42	26°♊10'27	20.59965 AU
morning rise	-11874 Sep 24 j 22:42	27°♊01'02	
	-11874 Dec 05 j 00:59	0°♋	
retrograde	-11874 Dec 27 j 18:43	0°♋12'47	
	-11873 Jan 19 j 19:30	30°℞♊	
min. Earth dist.	-11873 Mar 14 j 10:36	28°♊16'00	18.63294 AU
opposition	-11873 Mar 15 j 17:50	28°♊12'51	1°20'41
direct	-11873 May 30 j 19:58	26°♊15'10	
evening set	-11873 Aug 29 j 01:48	29°♊19'47	
	-11873 Sep 09 j 12:55	0°♋	
conjunction	-11873 Sep 13 j 15:04	0°♋14'30	1°12'17
minimum elong	-11873 Sep 13 j 15:04	0°♋14'30	1°12'58
max. Earth dist.	-11873 Sep 14 j 22:57	0°♋19'12	20.66401 AU
morning rise	-11873 Sep 29 j 07:06	1°♋09'36	
retrograde	-11872 Jan 01 j 05:22	4°♋20'48	
min. Earth dist.	-11872 Mar 18 j 00:31	2°♋24'05	18.69591 AU
opposition	-11872 Mar 19 j 07:25	2°♋20'59	1°19'22
direct	-11872 Jun 03 j 06:39	0°♋23'37	
evening set	-11872 Sep 01 j 08:30	3°♋27'12	
conjunction	-11872 Sep 16 j 22:25	4°♋21'46	1°10'57
minimum elong	-11872 Sep 16 j 22:25	4°♋21'46	1°11'37
max. Earth dist.	-11872 Sep 18 j 07:22	4°♋26'37	20.72528 AU
morning rise	-11872 Oct 02 j 15:07	5°♋16'44	
retrograde	-11871 Jan 04 j 17:59	8°♋27'26	
min. Earth dist.	-11871 Mar 22 j 11:43	6°♋30'58	18.75531 AU
opposition	-11871 Mar 23 j 20:10	6°♋27'43	1°17'40
direct	-11871 Jun 07 j 17:57	4°♋30'38	
evening set	-11871 Sep 05 j 14:45	7°♋33'14	
conjunction	-11871 Sep 21 j 05:09	8°♋27'40	1°09'15
minimum elong	-11871 Sep 21 j 05:09	8°♋27'40	1°09'56
max. Earth dist.	-11871 Sep 22 j 14:24	8°♋32'32	20.78261 AU
morning rise	-11871 Oct 06 j 22:45	9°♋22'32	
retrograde	-11870 Jan 09 j 03:02	12°♋32'44	
min. Earth dist.	-11870 Mar 27 j 00:39	10°♋36'16	18.81062 AU
opposition	-11870 Mar 28 j 08:24	10°♋33'05	1°15'35
direct	-11870 Jun 12 j 03:06	8°♋36'14	
evening set	-11870 Sep 09 j 20:38	11°♋37'54	

conjunction	-11870 Sep 25 j 11:51	12°♋32'13	1°07'13
minimum elong	-11870 Sep 25 j 11:51	12°♋32'13	1°07'54
max. Earth dist.	-11870 Sep 26 j 21:42	12°♋37'10	20.83579 AU
morning rise	-11870 Oct 11 j 06:16	13°♋27'00	
retrograde	-11869 Jan 13 j 14:39	16°♋36'42	
min. Earth dist.	-11869 Mar 31 j 10:43	14°♋40'23	18.86150 AU
opposition	-11869 Apr 01 j 19:39	14°♋37'05	1°13'07
direct	-11869 Jun 16 j 13:22	12°♋40'26	
evening set	-11869 Sep 14 j 02:12	15°♋41'14	
conjunction	-11869 Sep 29 j 18:05	16°♋35'27	1°04'51
minimum elong	-11869 Sep 29 j 18:06	16°♋35'27	1°05'31
max. Earth dist.	-11869 Oct 01 j 03:55	16°♋40'22	20.88434 AU
morning rise	-11869 Oct 15 j 13:34	17°♋30'10	
retrograde	-11868 Jan 17 j 22:37	20°♋39'23	
min. Earth dist.	-11868 Apr 03 j 22:25	18°♋42'58	18.90780 AU
opposition	-11868 Apr 05 j 06:18	18°♋39'47	1°10'19
direct	-11868 Jun 19 j 20:41	16°♋43'17	
evening set	-11868 Sep 17 j 07:17	19°♋43'15	
conjunction	-11868 Oct 03 j 00:05	20°♋37'24	1°02'11
minimum elong	-11868 Oct 03 j 00:05	20°♋37'24	1°02'51
max. Earth dist.	-11868 Oct 04 j 10:16	20°♋42'21	20.92847 AU
morning rise	-11868 Oct 18 j 20:28	21°♋32'03	
retrograde	-11867 Jan 21 j 08:45	24°♋40'48	
min. Earth dist.	-11867 Apr 08 j 07:04	22°♋44'29	18.94969 AU
opposition	-11867 Apr 09 j 15:57	22°♋41'11	1°07'11
direct	-11867 Jun 24 j 05:57	20°♋44'49	
evening set	-11867 Sep 21 j 12:07	23°♋44'02	
conjunction	-11867 Oct 07 j 05:41	24°♋38'07	0°59'14
minimum elong	-11867 Oct 07 j 05:41	24°♋38'07	0°59'51
max. Earth dist.	-11867 Oct 08 j 15:50	24°♋43'03	20.96829 AU
morning rise	-11867 Oct 23 j 03:10	25°♋32'44	
retrograde	-11866 Jan 25 j 16:04	28°♋41'03	
min. Earth dist.	-11866 Apr 12 j 17:21	26°♋44'36	18.98760 AU
opposition	-11866 Apr 14 j 01:08	26°♋41'25	1°03'44
direct	-11866 Jun 28 j 11:48	24°♋45'09	
evening set	-11866 Sep 25 j 16:31	27°♋43'41	
conjunction	-11866 Oct 11 j 11:07	28°♋37'43	0°56'00
minimum elong	-11866 Oct 11 j 11:07	28°♋37'43	0°56'37
max. Earth dist.	-11866 Oct 12 j 21:32	28°♋42'41	21.00440 AU
morning rise	-11866 Oct 27 j 09:37	29°♋32'19	
	-11866 Nov 04 j 18:27	0°♌	
retrograde	-11865 Jan 30 j 01:20	2°♌40'15	
min. Earth dist.	-11865 Apr 17 j 00:49	0°♌43'53	19.02183 AU
opposition	-11865 Apr 18 j 09:30	0°♌40'36	1°00'01
	-11865 May 05 j 15:00	30°℞♋	
direct	-11865 Jul 02 j 19:39	28°♋44'26	
	-11865 Aug 27 j 01:44	0°♌	
evening set	-11865 Sep 29 j 21:00	1°♌42'23	
conjunction	-11865 Oct 15 j 16:27	2°♌36'24	0°52'32
minimum elong	-11865 Oct 15 j 16:28	2°♌36'24	0°53'07
max. Earth dist.	-11865 Oct 17 j 02:40	2°♌41'18	21.03680 AU
morning rise	-11865 Oct 31 j 16:06	3°♌30'59	
retrograde	-11864 Feb 03 j 08:19	6°♌38'34	
min. Earth dist.	-11864 Apr 20 j 09:50	4°♌42'05	19.05252 AU
opposition	-11864 Apr 21 j 17:15	4°♌38'56	0°56'01
direct	-11864 Jul 06 j 00:25	2°♌42'51	
evening set	-11864 Oct 03 j 01:12	5°♌40'18	
conjunction	-11864 Oct 18 j 21:45	6°♌34'19	0°48'49
minimum elong	-11864 Oct 18 j 21:45	6°♌34'19	0°49'23
max. Earth dist.	-11864 Oct 20 j 07:54	6°♌39'12	21.06584 AU
morning rise	-11864 Nov 03 j 22:26	7°♌28'54	

Attention, astronomical year style is used: The year -11863 in astronomical counting style is the year 11864 BCE in historical counting style.

retrograde	-11863 Feb 06 j 16:52	10°♌36'11	
min. Earth dist.	-11863 Apr 24 j 16:21	8°♌39'49	19.07972 AU
opposition	-11863 Apr 26 j 00:28	8°♌36'35	0°51'47
direct	-11863 Jul 10 j 06:36	6°♌40'36	
evening set	-11863 Oct 07 j 05:18	9°♌37'38	
conjunction	-11863 Oct 23 j 02:48	10°♌31'40	0°44'52
minimum elong	-11863 Oct 23 j 02:48	10°♌31'40	0°45'25
max. Earth dist.	-11863 Oct 24 j 12:35	10°♌36'29	21.09120 AU
morning rise	-11863 Nov 08 j 04:40	11°♌26'17	
retrograde	-11862 Feb 10 j 23:46	14°♌33'20	
min. Earth dist.	-11862 Apr 29 j 00:46	12°♌36'51	19.10321 AU
opposition	-11862 Apr 30 j 07:26	12°♌33'46	0°47'17
direct	-11862 Jul 14 j 10:38	10°♌37'53	
evening set	-11862 Oct 11 j 09:31	13°♌34'35	
conjunction	-11862 Oct 27 j 08:11	14°♌28'39	0°40'43
minimum elong	-11862 Oct 27 j 08:11	14°♌28'39	0°41'14
max. Earth dist.	-11862 Oct 28 j 17:33	14°♌33'24	21.11288 AU
	-11862 Nov 05 j 12:52	15°♌	
morning rise	-11862 Nov 12 j 11:10	15°♌23'18	
retrograde	-11861 Feb 15 j 08:06	18°♌30'10	
min. Earth dist.	-11861 May 03 j 06:50	16°♌33'45	19.12275 AU
opposition	-11861 May 04 j 13:43	16°♌30'39	0°42'35
	-11861 Jun 16 j 15:36	15°℞♌	
direct	-11861 Jul 18 j 15:49	14°♌34'50	
	-11861 Aug 18 j 22:14	15°♌	
evening set	-11861 Oct 15 j 14:00	17°♌31'19	
conjunction	-11861 Oct 31 j 13:41	18°♌25'25	0°36'23
minimum elong	-11861 Oct 31 j 13:41	18°♌25'25	0°36'52
max. Earth dist.	-11861 Nov 01 j 22:13	18°♌30'02	21.13024 AU
morning rise	-11861 Nov 16 j 17:51	19°♌20'08	
retrograde	-11860 Feb 19 j 14:47	22°♌26'50	
opposition	-11860 May 07 j 19:51	20°♌27'23	0°37'41
min. Earth dist.	-11860 May 06 j 14:56	20°♌30'18	19.13780 AU
direct	-11860 Jul 21 j 19:07	18°♌31'38	
evening set	-11860 Oct 18 j 18:32	21°♌27'57	
conjunction	-11860 Nov 03 j 19:21	22°♌22'07	0°31'52
minimum elong	-11860 Nov 03 j 19:22	22°♌22'07	0°32'18
max. Earth dist.	-11860 Nov 05 j 02:58	22°♌26'36	21.14301 AU
morning rise	-11860 Nov 20 j 00:35	23°♌16'53	
retrograde	-11859 Feb 22 j 23:23	26°♌23'29	
min. Earth dist.	-11859 May 10 j 20:51	24°♌26'58	19.14797 AU
opposition	-11859 May 12 j 01:32	24°♌24'05	0°32'36
direct	-11859 Jul 25 j 23:58	22°♌28'22	
evening set	-11859 Oct 22 j 23:27	25°♌24'36	
conjunction	-11859 Nov 08 j 01:19	26°♌18'51	0°27'12
minimum elong	-11859 Nov 08 j 01:19	26°♌18'51	0°27'36
max. Earth dist.	-11859 Nov 09 j 07:38	26°♌23'08	21.15054 AU
morning rise	-11859 Nov 24 j 07:42	27°♌13'42	
	-11858 Jan 29 j 03:49	0°♍	
retrograde	-11858 Feb 27 j 05:40	0°♍20'13	
	-11858 Mar 28 j 17:47	30°℞♌	
min. Earth dist.	-11858 May 15 j 04:48	28°♌23'30	19.15276 AU
opposition	-11858 May 16 j 07:07	28°♌20'51	0°27'22
direct	-11858 Jul 30 j 02:57	26°♌25'07	
evening set	-11858 Oct 27 j 04:35	29°♌21'20	
	-11858 Nov 07 j 16:59	0°♍	
conjunction	-11858 Nov 12 j 07:40	0°♍15'41	0°22'24
minimum elong	-11858 Nov 12 j 07:41	0°♍15'41	0°22'46
max. Earth dist.	-11858 Nov 13 j 12:30	0°♍19'45	21.15261 AU
morning rise	-11858 Nov 28 j 15:10	1°♍10'38	
retrograde	-11857 Mar 03 j 14:45	4°♍17'05	

min. Earth dist.	-11857 May 19 j 10:49	2°♍20'18	19.15178 AU
opposition	-11857 May 20 j 12:26	2°♍17'43	0°21'59
direct	-11857 Aug 03 j 07:38	0°♍21'55	
evening set	-11857 Oct 31 j 10:13	3°♍18'12	
conjunction	-11857 Nov 16 j 14:22	4°♍12'39	0°17'30
minimum elong	-11857 Nov 16 j 14:22	4°♍12'39	0°17'49
max. Earth dist.	-11857 Nov 17 j 17:22	4°♍16'28	21.14856 AU
morning rise	-11857 Dec 02 j 22:57	5°♍07'42	
retrograde	-11856 Mar 06 j 20:52	8°♍14'08	
opposition	-11856 May 23 j 17:33	6°♍14'44	0°16'31
min. Earth dist.	-11856 May 22 j 18:35	6°♍17'03	19.14466 AU
direct	-11856 Aug 06 j 10:49	4°♍18'49	
evening set	-11856 Nov 03 j 16:00	7°♍15'13	
conjunction	-11856 Nov 19 j 21:20	8°♍09'47	0°12'31
minimum elong	-11856 Nov 19 j 21:20	8°♍09'47	0°12'48
behind sun begin	-11856 Nov 19 j 17:14	8°♍09'13	
behind sun end	-11856 Nov 20 j 01:27	8°♍10'21	
max. Earth dist.	-11856 Nov 20 j 22:29	8°♍13'20	21.13863 AU
morning rise	-11856 Dec 06 j 06:59	9°♍04'57	
retrograde	-11855 Mar 11 j 05:43	12°♍11'22	
opposition	-11855 May 27 j 22:30	10°♍11'54	0°10'58
min. Earth dist.	-11855 May 27 j 00:24	10°♍14'08	19.13170 AU
direct	-11855 Aug 10 j 15:25	8°♍15'49	
evening set	-11855 Nov 07 j 22:04	11°♍12'23	
conjunction	-11855 Nov 24 j 04:30	12°♍07'06	0°07'29
minimum elong	-11855 Nov 24 j 04:29	12°♍07'06	0°07'43
behind sun begin	-11855 Nov 23 j 22:28	12°♍06'16	
behind sun end	-11855 Nov 24 j 10:31	12°♍07'56	
max. Earth dist.	-11855 Nov 25 j 03:48	12°♍10'23	21.12284 AU
morning rise	-11855 Dec 10 j 15:12	13°♍02'24	
retrograde	-11854 Mar 15 j 12:06	16°♍08'50	
min. Earth dist.	-11854 May 31 j 07:58	14°♍11'14	19.11315 AU
opposition	-11854 Jun 01 j 03:26	14°♍09'15	0°05'22
direct	-11854 Aug 14 j 18:50	12°♍12'59	
evening set	-11854 Nov 12 j 04:36	15°♍09'48	
conjunction	-11854 Nov 28 j 12:12	16°♍04'39	0°02'25
minimum elong	-11854 Nov 28 j 12:11	16°♍04'39	0°02'37
behind sun begin	-11854 Nov 28 j 05:31	16°♍03'44	
behind sun end	-11854 Nov 28 j 18:52	16°♍05'34	
max. Earth dist.	-11854 Nov 29 j 09:33	16°♍07'40	21.10189 AU
morning rise	-11854 Dec 14 j 23:56	17°♍00'06	
retrograde	-11853 Mar 19 j 21:02	20°♍06'35	
desc. node	-11853 May 19 j 07:23	18°♍47'42	
opposition	-11853 Jun 05 j 07:58	18°♍06'53	-0°00'16
min. Earth dist.	-11853 Jun 04 j 13:30	18°♍08'46	19.08971 AU
direct	-11853 Aug 18 j 23:41	16°♍10'22	
evening set	-11853 Nov 16 j 11:40	19°♍07'32	
conjunction	-11853 Dec 02 j 20:16	20°♍02'33	-0°02'49
minimum elong	-11853 Dec 02 j 20:17	20°♍02'33	0°02'41
behind sun begin	-11853 Dec 02 j 13:36	20°♍01'38	
behind sun end	-11853 Dec 03 j 02:58	20°♍03'28	
max. Earth dist.	-11853 Dec 03 j 15:47	20°♍05'18	21.07611 AU
morning rise	-11853 Dec 19 j 08:58	20°♍58'09	
retrograde	-11852 Mar 23 j 03:40	24°♍04'43	
opposition	-11852 Jun 08 j 12:43	22°♍04'55	-0°05'54
min. Earth dist.	-11852 Jun 07 j 20:47	22°♍06'32	19.06178 AU
direct	-11852 Aug 22 j 02:54	20°♍08'09	
evening set	-11852 Nov 19 j 18:58	23°♍05'44	
conjunction	-11852 Dec 06 j 04:39	24°♍00'56	-0°07'54
minimum elong	-11852 Dec 06 j 04:38	24°♍00'56	0°07'48
behind sun begin	-11852 Dec 05 j 22:37	24°♍00'06	

Attention, astronomical year style is used: The year -11852 in astronomical counting style is the year 11853 BCE in historical counting style.

behind sun end	-11852 Dec 06 j 10:40	24°♍01'45		
max. Earth dist.	-11852 Dec 06 j 22:10	24°♍03'24	21.04629 AU	
morning rise	-11852 Dec 22 j 18:14	24°♍56'41		
retrograde	-11851 Mar 27 j 13:11	28°♍03'25		
opposition	-11851 Jun 12 j 17:22	26°♍03'30	-0°11'32	
min. Earth dist.	-11851 Jun 12 j 02:19	26°♍05'02	19.03003 AU	
direct	-11851 Aug 26 j 08:09	24°♍06'28		
evening set	-11851 Nov 24 j 02:57	27°♍04'34		
conjunction	-11851 Dec 10 j 13:38	27°♍59'58	-0°12'58	
minimum elong	-11851 Dec 10 j 13:38	27°♍59'58	0°12'54	
behind sun begin	-11851 Dec 10 j 09:36	27°♍59'25		
behind sun end	-11851 Dec 10 j 17:39	28°♍00'31		
max. Earth dist.	-11851 Dec 11 j 05:20	28°♍02'11	21.01266 AU	
morning rise	-11851 Dec 27 j 04:03	28°♍55'54		
	-11850 Jan 16 j 11:23	0°♎		
retrograde	-11850 Mar 31 j 20:21	2°♎02'50		
opposition	-11850 Jun 16 j 22:09	0°♎02'49	-0°17'07	
min. Earth dist.	-11850 Jun 16 j 09:41	0°♎04'06	18.99465 AU	
	-11850 Jun 18 j 01:34	30°℞♍		
direct	-11850 Aug 30 j 11:21	28°♍05'33		
	-11850 Nov 08 j 02:38	0°♎		
evening set	-11850 Nov 28 j 11:31	1°♎04'15		
conjunction	-11850 Dec 14 j 23:15	1°♎59'51	-0°17'59	
minimum elong	-11850 Dec 14 j 23:15	1°♎59'51	0°17'58	
max. Earth dist.	-11850 Dec 15 j 12:40	2°♎01'45	20.97570 AU	
morning rise	-11850 Dec 31 j 14:32	2°♎55'58		
retrograde	-11849 Apr 05 j 06:43	6°♎03'10		
opposition	-11849 Jun 21 j 03:05	4°♎03'05	-0°22'39	
min. Earth dist.	-11849 Jun 20 j 15:43	4°♎04'16	18.95593 AU	
direct	-11849 Sep 03 j 17:05	2°♎05'34		
evening set	-11849 Dec 02 j 20:49	5°♎04'58		
conjunction	-11849 Dec 19 j 09:28	6°♎00'48	-0°22'56	
minimum elong	-11849 Dec 19 j 09:28	6°♎00'48	0°22'58	
max. Earth dist.	-11849 Dec 19 j 20:56	6°♎02'25	20.93520 AU	
morning rise	-11848 Jan 05 j 01:26	6°♎57'06		
retrograde	-11848 Apr 08 j 14:56	10°♎04'36		
opposition	-11848 Jun 24 j 08:18	8°♎04'29	-0°28'07	
min. Earth dist.	-11848 Jun 23 j 23:37	8°♎05'23	18.91376 AU	
direct	-11848 Sep 06 j 20:58	6°♎06'44		
evening set	-11848 Dec 06 j 06:47	9°♎06'55		
conjunction	-11848 Dec 22 j 20:21	10°♎02'58	-0°27'49	
minimum elong	-11848 Dec 22 j 20:20	10°♎02'58	0°27'55	
max. Earth dist.	-11848 Dec 23 j 05:15	10°♎04'13	20.89149 AU	
morning rise	-11847 Jan 08 j 13:03	10°♎59'28		
retrograde	-11847 Apr 13 j 01:59	14°♎07'21		
opposition	-11847 Jun 28 j 13:46	12°♎07'11	-0°33'27	
min. Earth dist.	-11847 Jun 28 j 06:27	12°♎07'56	18.86831 AU	
direct	-11847 Sep 11 j 03:07	10°♎09'11		
evening set	-11847 Dec 10 j 17:31	13°♎10'13		
conjunction	-11847 Dec 27 j 07:58	14°♎06'31	-0°32'35	
minimum elong	-11847 Dec 27 j 07:57	14°♎06'31	0°32'43	
max. Earth dist.	-11847 Dec 27 j 14:48	14°♎07'29	20.84420 AU	
morning rise	-11846 Jan 13 j 01:15	15°♎03'15		
retrograde	-11846 Apr 17 j 11:51	18°♎11'31		
opposition	-11846 Jul 02 j 19:44	16°♎11'20	-0°38'40	
min. Earth dist.	-11846 Jul 02 j 15:20	16°♎11'48	18.81918 AU	
direct	-11846 Sep 15 j 08:19	14°♎13'04		
evening set	-11846 Dec 15 j 05:17	17°♎15'03		
conjunction	-11846 Dec 31 j 20:31	18°♎11'36	-0°37'13	
minimum elong	-11846 Dec 31 j 20:31	18°♎11'36	0°37'24	
max. Earth dist.	-11845 Jan 01 j 00:16	18°♎12'08	20.79328 AU	
morning rise	-11845 Jan 17 j 14:26	19°♎08'33		
retrograde	-11845 Apr 21 j 23:40	22°♎17'16		
opposition	-11845 Jul 07 j 01:55	20°♎17'02	-0°43'43	
min. Earth dist.	-11845 Jul 06 j 23:18	20°♎17'19	18.76630 AU	
direct	-11845 Sep 19 j 15:14	18°♎18'28		
evening set	-11845 Dec 19 j 17:56	21°♎21'28		
conjunction	-11844 Jan 05 j 09:57	22°♎18'17	-0°41'41	
minimum elong	-11844 Jan 05 j 09:56	22°♎18'17	0°41'54	
max. Earth dist.	-11844 Jan 05 j 11:19	22°♎18'29	20.73828 AU	
morning rise	-11844 Jan 22 j 04:13	23°♎15'27		
retrograde	-11844 Apr 25 j 10:53	26°♎24'37		
opposition	-11844 Jul 10 j 08:50	24°♎24'20	-0°48'34	
min. Earth dist.	-11844 Jul 10 j 09:12	24°♎24'18	18.70932 AU	
direct	-11844 Sep 22 j 22:07	22°♎25'27		
evening set	-11844 Dec 23 j 07:15	25°♎29'30		
conjunction	-11843 Jan 08 j 23:54	26°♎26'34	-0°45'57	
minimum elong	-11843 Jan 08 j 23:53	26°♎26'34	0°46'13	
max. Earth dist.	-11843 Jan 08 j 21:51	26°♎26'16	20.67935 AU	
morning rise	-11843 Jan 25 j 18:40	27°♎23'58		
	-11843 Mar 24 j 02:31	0°♏		
retrograde	-11843 Apr 29 j 23:16	0°♏33'38		
	-11843 Jun 06 j 01:27	30°℞♎		
opposition	-11843 Jul 14 j 16:09	28°♎33'14	-0°53'12	
min. Earth dist.	-11843 Jul 14 j 18:22	28°♎33'00	18.64841 AU	
direct	-11843 Sep 27 j 06:22	26°♎33'58		
evening set	-11843 Dec 27 j 21:34	29°♎39'07		
	-11842 Jan 03 j 01:01	0°♏		
conjunction	-11842 Jan 13 j 14:55	0°♏36'28	-0°50'00	
minimum elong	-11842 Jan 13 j 14:54	0°♏36'28	0°50'19	
max. Earth dist.	-11842 Jan 13 j 10:31	0°♏35'50	20.61640 AU	
morning rise	-11842 Jan 30 j 09:54	1°♏34'06		
retrograde	-11842 May 04 j 11:18	4°♏44'14		
opposition	-11842 Jul 18 j 23:56	2°♏43'43	-0°57'34	
min. Earth dist.	-11842 Jul 19 j 05:04	2°♏43'11	18.58366 AU	
direct	-11842 Oct 01 j 15:03	0°♏44'03		
evening set	-11841 Jan 01 j 12:47	3°♏50'20		
conjunction	-11841 Jan 18 j 06:38	4°♏47'57	-0°53'48	
minimum elong	-11841 Jan 18 j 06:38	4°♏47'57	0°54'09	
max. Earth dist.	-11841 Jan 17 j 22:36	4°♏46'48	20.55008 AU	
morning rise	-11841 Feb 04 j 02:01	5°♏45'49		
retrograde	-11841 May 09 j 00:08	8°♏56'27		
opposition	-11841 Jul 23 j 08:14	6°♏55'47	-1°01'39	
min. Earth dist.	-11841 Jul 23 j 15:16	6°♏55'02	18.51588 AU	
direct	-11841 Oct 06 j 01:08	4°♏55'39		
evening set	-11840 Jan 06 j 04:41	8°♏03'07		
conjunction	-11840 Jan 22 j 23:05	9°♏01'01	-0°57'20	
minimum elong	-11840 Jan 22 j 23:05	9°♏01'01	0°57'45	
max. Earth dist.	-11840 Jan 22 j 13:07	8°♏59'34	20.48086 AU	
morning rise	-11840 Feb 08 j 18:27	9°♏59'07		
retrograde	-11840 May 12 j 12:47	13°♏10'15		
opposition	-11840 Jul 26 j 17:08	11°♏09'26	-1°05'27	
min. Earth dist.	-11840 Jul 27 j 02:43	11°♏08'24	18.44562 AU	
direct	-11840 Oct 09 j 11:05	9°♏08'50		
evening set	-11839 Jan 09 j 21:28	12°♏17'31		
conjunction	-11839 Jan 26 j 16:10	13°♏15'42	-1°00'35	
minimum elong	-11839 Jan 26 j 16:10	13°♏15'42	1°01'02	
max. Earth dist.	-11839 Jan 26 j 02:47	13°♏13'45	20.40981 AU	
morning rise	-11839 Feb 12 j 11:46	14°♏14'02		
	-11839 Feb 26 j 08:38	15°♏		
retrograde	-11839 May 17 j 02:33	17°♏25'42		
opposition	-11839 Jul 31 j 02:29	15°♏24'42	-1°08'54	

Attention, astronomical year style is used: The year -11839 in astronomical counting style is the year 11840 BCE in historical counting style.

min. Earth dist.	-11839 Jul 31 j 13:51	15°♏23'29	18.37401 AU
	-11839 Aug 09 j 20:26	15°℞♏	
direct	-11839 Oct 13 j 23:06	13°♏23'37	
	-11839 Dec 15 j 23:54	15°♏	
evening set	-11838 Jan 14 j 14:58	16°♏33'34	
conjunction	-11838 Jan 31 j 10:11	17°♏32'03	-1°03'31
minimum elong	-11838 Jan 31 j 10:10	17°♏32'03	1°04'00
max. Earth dist.	-11838 Jan 30 j 19:18	17°♏29'52	20.33757 AU
morning rise	-11838 Feb 17 j 05:38	18°♏30'36	
retrograde	-11838 May 21 j 16:00	21°♏42'48	
opposition	-11838 Aug 04 j 12:38	19°♏41'40	-1°12'00
min. Earth dist.	-11838 Aug 05 j 02:12	19°♏40'13	18.30149 AU
direct	-11838 Oct 18 j 10:22	17°♏40'07	
evening set	-11837 Jan 19 j 09:34	20°♏51'23	
max. Earth dist.	-11837 Feb 04 j 10:40	21°♏47'27	20.26492 AU
conjunction	-11837 Feb 05 j 04:52	21°♏50'08	-1°06'07
minimum elong	-11837 Feb 05 j 04:51	21°♏50'08	1°06'38
morning rise	-11837 Feb 22 j 00:22	22°♏48'55	
retrograde	-11837 May 26 j 07:10	26°♏01'42	
opposition	-11837 Aug 08 j 23:23	24°♏00'24	-1°14'43
min. Earth dist.	-11837 Aug 09 j 14:40	23°♏58'46	18.22898 AU
direct	-11837 Oct 23 j 00:11	21°♏58'24	
evening set	-11836 Jan 24 j 04:50	25°♏11'02	
max. Earth dist.	-11836 Feb 09 j 05:12	26°♏07'13	20.19246 AU
conjunction	-11836 Feb 10 j 00:28	26°♏10'03	-1°08'22
minimum elong	-11836 Feb 10 j 00:28	26°♏10'03	1°08'54
morning rise	-11836 Feb 26 j 19:37	27°♏09'04	
	-11836 Apr 30 j 16:38	0°♐	
retrograde	-11836 May 29 j 22:03	0°♐22'25	
	-11836 Jun 28 j 09:05	30°℞♏	
opposition	-11836 Aug 12 j 11:02	28°♏21'03	-1°17'02
min. Earth dist.	-11836 Aug 13 j 04:03	28°♏19'13	18.15688 AU
direct	-11836 Oct 26 j 13:15	26°♏18'37	
evening set	-11835 Jan 28 j 00:58	29°♏32'37	
	-11835 Feb 04 j 20:51	0°♐	
conjunction	-11835 Feb 13 j 20:33	0°♐31'54	-1°10'14
minimum elong	-11835 Feb 13 j 20:32	0°♐31'54	1°10'49
max. Earth dist.	-11835 Feb 12 j 22:08	0°♐28'35	20.12080 AU
morning rise	-11835 Mar 02 j 15:37	1°♐31'09	
retrograde	-11835 Jun 03 j 14:31	4°♐45'08	
opposition	-11835 Aug 16 j 23:25	2°♐43'39	-1°18'56
min. Earth dist.	-11835 Aug 17 j 18:09	2°♐41'39	18.08583 AU
direct	-11835 Oct 31 j 04:14	0°♐40'49	
evening set	-11834 Feb 01 j 22:02	3°♐56'14	
conjunction	-11834 Feb 18 j 17:49	4°♐55'48	-1°11'43
minimum elong	-11834 Feb 18 j 17:48	4°♐55'48	1°12'18
max. Earth dist.	-11834 Feb 17 j 18:34	4°♐52'21	20.05019 AU
morning rise	-11834 Mar 07 j 12:23	5°♐55'16	
retrograde	-11834 Jun 08 j 07:36	9°♐09'51	
opposition	-11834 Aug 21 j 12:35	7°♐08'21	-1°20'23
min. Earth dist.	-11834 Aug 22 j 08:53	7°♐06'10	18.01581 AU
direct	-11834 Nov 04 j 19:22	5°♐05'08	
evening set	-11833 Feb 06 j 20:16	8°♐22'00	
conjunction	-11833 Feb 23 j 15:46	9°♐21'49	-1°12'47
minimum elong	-11833 Feb 23 j 15:46	9°♐21'49	1°13'25
max. Earth dist.	-11833 Feb 22 j 13:24	9°♐17'53	19.98081 AU
morning rise	-11833 Mar 12 j 10:04	10°♐21'30	
retrograde	-11833 Jun 13 j 01:28	13°♐36'44	
opposition	-11833 Aug 26 j 02:47	11°♐35'12	-1°21'22
min. Earth dist.	-11833 Aug 27 j 01:00	11°♐32'48	17.94717 AU
direct	-11833 Nov 09 j 11:38	9°♐31'38	
evening set	-11832 Feb 11 j 19:02	12°♐49'55	
max. Earth dist.	-11832 Feb 27 j 11:30	13°♐45'57	19.91266 AU
conjunction	-11832 Feb 28 j 14:32	13°♐50'00	-1°13'25
minimum elong	-11832 Feb 28 j 14:32	13°♐50'00	1°14'03
morning rise	-11832 Mar 16 j 08:09	14°♐49'53	
retrograde	-11832 Jun 16 j 20:46	18°♐05'46	
opposition	-11832 Aug 29 j 17:54	16°♐04'13	-1°21'51
min. Earth dist.	-11832 Aug 30 j 17:22	16°♐01'41	17.87962 AU
direct	-11832 Nov 13 j 05:05	14°♐00'19	
evening set	-11831 Feb 15 j 18:58	17°♐20'01	
max. Earth dist.	-11831 Mar 03 j 08:01	18°♐15'49	19.84565 AU
conjunction	-11831 Mar 04 j 14:03	18°♐20'21	-1°13'36
minimum elong	-11831 Mar 04 j 14:03	18°♐20'21	1°14'15
morning rise	-11831 Mar 21 j 07:13	19°♐20'26	
retrograde	-11831 Jun 21 j 15:45	22°♐36'57	
opposition	-11831 Sep 03 j 09:53	20°♐35'22	-1°21'50
min. Earth dist.	-11831 Sep 04 j 11:29	20°♐32'36	17.81332 AU
direct	-11831 Nov 17 j 22:58	18°♐31'05	
evening set	-11830 Feb 20 j 19:35	21°♐52'13	
max. Earth dist.	-11830 Mar 08 j 07:40	22°♐48'06	19.77982 AU
conjunction	-11830 Mar 09 j 14:30	22°♐52'47	-1°13'19
minimum elong	-11830 Mar 09 j 14:30	22°♐52'47	1°13'59
morning rise	-11830 Mar 26 j 06:55	23°♐53'03	
retrograde	-11830 Jun 26 j 12:50	27°♐10'10	
opposition	-11830 Sep 08 j 02:55	25°♐08'33	-1°21'18
min. Earth dist.	-11830 Sep 09 j 05:28	25°♐05'40	17.74805 AU
direct	-11830 Nov 22 j 18:46	23°♐03'56	
evening set	-11829 Feb 25 j 21:05	26°♐26'24	
max. Earth dist.	-11829 Mar 13 j 05:59	27°♐22'05	19.71516 AU
conjunction	-11829 Mar 14 j 15:25	27°♐27'11	-1°12'34
minimum elong	-11829 Mar 14 j 15:25	27°♐27'11	1°13'14
morning rise	-11829 Mar 31 j 07:08	28°♐27'38	
	-11829 Apr 28 j 02:17	0°♑	
retrograde	-11829 Jul 01 j 08:54	1°♑45'19	
	-11829 Sep 06 j 13:52	30°℞♐	
opposition	-11829 Sep 12 j 20:55	29°♐43'39	-1°20'15
min. Earth dist.	-11829 Sep 14 j 01:29	29°♐40'33	17.68429 AU
direct	-11829 Nov 27 j 14:42	27°♐38'39	
	-11828 Feb 12 j 19:02	0°♑	
evening set	-11828 Mar 01 j 23:02	1°♑02'25	
max. Earth dist.	-11828 Mar 17 j 06:57	1°♑58'12	19.65231 AU
conjunction	-11828 Mar 18 j 16:58	2°♑03'25	-1°11'21
minimum elong	-11828 Mar 18 j 16:58	2°♑03'25	1°12'03
morning rise	-11828 Apr 04 j 07:52	3°♑04'01	
retrograde	-11828 Jul 05 j 06:59	6°♑22'15	
opposition	-11828 Sep 16 j 15:42	4°♑20'31	-1°18'40
min. Earth dist.	-11828 Sep 17 j 20:36	4°♑17'22	17.62249 AU
direct	-11828 Dec 01 j 12:13	2°♑15'10	
evening set	-11827 Mar 07 j 01:31	5°♑40'09	
max. Earth dist.	-11827 Mar 22 j 07:06	6°♑35'50	19.59174 AU
conjunction	-11827 Mar 23 j 18:50	6°♑41'20	-1°09'40
minimum elong	-11827 Mar 23 j 18:50	6°♑41'20	1°10'21
morning rise	-11827 Apr 09 j 08:54	7°♑42'04	
retrograde	-11827 Jul 10 j 04:03	11°♑00'50	
opposition	-11827 Sep 21 j 11:25	8°♑59'00	-1°16'34
min. Earth dist.	-11827 Sep 22 j 18:07	8°♑55'40	17.56345 AU
direct	-11827 Dec 06 j 09:51	6°♑53'19	
evening set	-11826 Mar 12 j 04:31	10°♑19'28	
max. Earth dist.	-11826 Mar 27 j 09:04	11°♑15'13	19.53434 AU
conjunction	-11826 Mar 28 j 21:11	11°♑20'48	-1°07'32

Attention, astronomical year style is used: The year -11826 in astronomical counting style is the year 11827 BCE in historical counting style.

minimum elong	-11826 Mar 28 j 21:12	11°♉20'48	1°08'12
morning rise	-11826 Apr 14 j 10:22	12°♉21'40	
retrograde	-11826 Jul 15 j 02:47	15°♉40'54	
opposition	-11826 Sep 26 j 07:48	13°♉39'00	-1°13'57
min. Earth dist.	-11826 Sep 27 j 14:14	13°♉35'41	17.50780 AU
direct	-11826 Dec 11 j 09:30	11°♉32'59	
evening set	-11825 Mar 17 j 07:56	15°♉00'13	
max. Earth dist.	-11825 Apr 01 j 11:11	15°♉56'01	19.48069 AU
conjunction	-11825 Apr 02 j 23:51	16°♉01'42	-1°04'56
minimum elong	-11825 Apr 02 j 23:52	16°♉01'42	1°05'36
morning rise	-11825 Apr 19 j 12:00	17°♉02'40	
retrograde	-11825 Jul 20 j 00:20	20°♉22'22	
opposition	-11825 Oct 01 j 05:18	18°♉20'23	-1°10'51
min. Earth dist.	-11825 Oct 02 j 13:02	18°♉16'55	17.45647 AU
direct	-11825 Dec 16 j 08:49	16°♉14'05	
evening set	-11824 Mar 21 j 11:25	19°♉42'19	
max. Earth dist.	-11824 Apr 05 j 13:44	20°♉38'11	19.43181 AU
conjunction	-11824 Apr 07 j 02:29	20°♉43'54	-1°01'54
minimum elong	-11824 Apr 07 j 02:29	20°♉43'54	1°02'32
morning rise	-11824 Apr 23 j 13:42	21°♉44'56	
retrograde	-11824 Jul 23 j 23:37	25°♉05'06	
opposition	-11824 Oct 05 j 03:22	23°♉03'02	-1°07'15
min. Earth dist.	-11824 Oct 06 j 10:09	22°♉59'40	17.41011 AU
direct	-11824 Dec 20 j 10:31	20°♉56'29	
evening set	-11823 Mar 26 j 15:16	24°♉25'38	
max. Earth dist.	-11823 Apr 10 j 17:21	25°♉21'40	19.38813 AU
conjunction	-11823 Apr 12 j 05:31	25°♉27'19	-0°58'26
minimum elong	-11823 Apr 12 j 05:32	25°♉27'19	0°59'04
morning rise	-11823 Apr 28 j 15:33	26°♉28'25	
retrograde	-11823 Jul 28 j 21:44	29°♉48'58	
opposition	-11823 Oct 10 j 02:18	27°♉46'52	-1°03'10
min. Earth dist.	-11823 Oct 11 j 09:55	27°♉43'25	17.36935 AU
direct	-11823 Dec 25 j 11:43	25°♉40'08	
evening set	-11822 Mar 31 j 19:29	29°♉10'07	
	-11822 Apr 14 j 05:04	0°♒	
max. Earth dist.	-11822 Apr 15 j 20:25	0°♒06'10	19.35045 AU
conjunction	-11822 Apr 17 j 08:39	0°♒11'51	-0°54'34
minimum elong	-11822 Apr 17 j 08:39	0°♒11'51	0°55'10
morning rise	-11822 May 03 j 17:42	1°♒12'59	
retrograde	-11822 Aug 02 j 21:45	4°♒33'56	
opposition	-11822 Oct 15 j 01:59	2°♒31'49	-0°58'39
min. Earth dist.	-11822 Oct 16 j 08:12	2°♒28'31	17.33468 AU
direct	-11822 Dec 30 j 15:03	0°♒24'58	
evening set	-11821 Apr 05 j 23:37	3°♒55'40	
max. Earth dist.	-11821 Apr 21 j 01:13	4°♒52'00	19.31892 AU
conjunction	-11821 Apr 22 j 11:53	4°♒57'26	-0°50'19
minimum elong	-11821 Apr 22 j 11:53	4°♒57'26	0°50'53
morning rise	-11821 May 08 j 19:37	5°♒58'36	
retrograde	-11821 Aug 07 j 20:57	9°♒19'53	
opposition	-11821 Oct 20 j 02:37	7°♒17'49	-0°53'43
min. Earth dist.	-11821 Oct 21 j 09:04	7°♒14'30	17.30631 AU
direct	-11820 Jan 04 j 17:18	5°♒10'55	
evening set	-11820 Apr 10 j 04:02	8°♒42'13	
max. Earth dist.	-11820 Apr 25 j 04:27	9°♒38'33	19.29388 AU
conjunction	-11820 Apr 26 j 15:04	9°♒44'01	-0°45'42
minimum elong	-11820 Apr 26 j 15:04	9°♒44'01	0°46'15
morning rise	-11820 May 12 j 21:49	10°♒45'10	
retrograde	-11820 Aug 11 j 22:21	14°♒06'46	
opposition	-11820 Oct 24 j 03:39	12°♒04'46	-0°48'23
min. Earth dist.	-11820 Oct 25 j 08:35	12°♒01'37	17.28438 AU
direct	-11819 Jan 08 j 21:19	9°♒57'51	
evening set	-11819 Apr 15 j 08:18	13°♒29'40	
max. Earth dist.	-11819 Apr 30 j 09:56	14°♒26'19	19.27503 AU
conjunction	-11819 May 01 j 18:22	14°♒31'27	-0°40'44
minimum elong	-11819 May 01 j 18:23	14°♒31'27	0°41'14
	-11819 May 09 j 07:02	15°♒	
morning rise	-11819 May 17 j 23:47	15°♒32'35	
retrograde	-11819 Aug 16 j 22:45	18°♒54'26	
opposition	-11819 Oct 29 j 05:36	16°♒52'32	-0°42'41
min. Earth dist.	-11819 Oct 30 j 10:25	16°♒49'24	17.26840 AU
	-11819 Dec 21 j 10:54	15°℞♒	
direct	-11818 Jan 14 j 00:04	14°♒45'40	
	-11818 Feb 06 j 07:21	15°♒	
evening set	-11818 Apr 20 j 12:45	18°♒17'51	
conjunction	-11818 May 06 j 21:26	19°♒19'35	-0°35'29
minimum elong	-11818 May 06 j 21:27	19°♒19'35	0°35'57
max. Earth dist.	-11818 May 05 j 13:06	19°♒14'28	19.26204 AU
morning rise	-11818 May 23 j 01:47	20°♒20'40	
retrograde	-11818 Aug 22 j 00:57	23°♒42'45	
opposition	-11818 Nov 03 j 08:05	21°♒40'55	-0°36'40
min. Earth dist.	-11818 Nov 04 j 11:27	21°♒37'57	17.25820 AU
direct	-11817 Jan 19 j 04:35	19°♒34'07	
evening set	-11817 Apr 25 j 16:55	23°♒06'34	
max. Earth dist.	-11817 May 10 j 18:41	24°♒03'29	19.25460 AU
conjunction	-11817 May 12 j 00:32	24°♒08'13	-0°29'58
minimum elong	-11817 May 12 j 00:32	24°♒08'13	0°30'23
morning rise	-11817 May 28 j 03:30	25°♒09'13	
retrograde	-11817 Aug 27 j 02:07	28°♒31'28	
opposition	-11817 Nov 08 j 11:17	26°♒29'42	-0°30'23
min. Earth dist.	-11817 Nov 09 j 13:52	26°♒26'49	17.25332 AU
direct	-11816 Jan 24 j 08:29	24°♒23'00	
evening set	-11816 Apr 29 j 20:51	27°♒55'32	
max. Earth dist.	-11816 May 14 j 21:37	28°♒52'23	19.25240 AU
conjunction	-11816 May 16 j 03:05	28°♒57'04	-0°24'14
minimum elong	-11816 May 16 j 03:05	28°♒57'04	0°24'36
morning rise	-11816 Jun 01 j 04:59	29°♒57'59	
	-11816 Jun 01 j 18:02	0°♓	
retrograde	-11816 Aug 31 j 03:53	3°♓20'20	
opposition	-11816 Nov 12 j 14:47	1°♓18'37	-0°23'53
min. Earth dist.	-11816 Nov 13 j 16:00	1°♓15'53	17.25368 AU
	-11816 Dec 15 j 08:43	30°℞♒	
direct	-11815 Jan 28 j 13:30	29°♒12'01	
	-11815 Mar 12 j 16:21	0°♓	
evening set	-11815 May 05 j 00:26	2°♓44'29	
max. Earth dist.	-11815 May 20 j 02:39	3°♓41'38	19.25531 AU
conjunction	-11815 May 21 j 05:32	3°♓45'54	-0°18'20
minimum elong	-11815 May 21 j 05:32	3°♓45'54	0°18'41
morning rise	-11815 Jun 06 j 06:07	4°♓46'41	
retrograde	-11815 Sep 05 j 04:51	8°♓09'04	
opposition	-11815 Nov 17 j 18:34	6°♓07'23	-0°17'12
min. Earth dist.	-11815 Nov 18 j 18:18	6°♓04'49	17.25893 AU
direct	-11814 Feb 02 j 19:10	4°♓00'55	
evening set	-11814 May 10 j 03:44	7°♓33'12	
max. Earth dist.	-11814 May 25 j 05:30	8°♓30'20	19.26320 AU
conjunction	-11814 May 26 j 07:25	8°♓34'27	-0°12'20
minimum elong	-11814 May 26 j 07:25	8°♓34'27	0°12'36
behind sun begin	-11814 May 26 j 03:08	8°♓33'47	
behind sun end	-11814 May 26 j 11:41	8°♓35'07	
morning rise	-11814 Jun 11 j 06:53	9°♓35'05	
retrograde	-11814 Sep 10 j 05:22	12°♓57'27	
opposition	-11814 Nov 22 j 22:44	10°♓55'46	-0°10'26
min. Earth dist.	-11814 Nov 23 j 21:07	10°♓53'22	17.26943 AU

Attention, astronomical year style is used: The year -11813 in astronomical counting style is the year 11814 BCE in historical counting style.

direct	-11813 Feb 08 j 00:24	8°♓49'27	
evening set	-11813 May 15 j 06:10	12°♓21'23	
max. Earth dist.	-11813 May 30 j 09:33	13°♓18'47	19.27638 AU
conjunction	-11813 May 31 j 08:39	13°♓22'27	-0°06'15
minimum elong	-11813 May 31 j 08:39	13°♓22'27	0°06'29
behind sun begin	-11813 May 31 j 02:24	13°♓21'29	
behind sun end	-11813 May 31 j 14:53	13°♓23'25	
morning rise	-11813 Jun 16 j 06:56	14°♓22'55	
retrograde	-11813 Sep 15 j 06:19	17°♓45'13	
opposition	-11813 Nov 28 j 02:59	15°♓43'32	-0°03'36
min. Earth dist.	-11813 Nov 28 j 22:59	15°♓41'23	17.28510 AU
direct	-11812 Feb 13 j 07:00	13°♓37'23	
evening set	-11812 May 19 j 08:08	17°♓08'50	
conjunction	-11812 Jun 04 j 09:17	18°♓09'42	-0°00'05
minimum elong	-11812 Jun 04 j 09:17	18°♓09'42	0°00'15
behind sun begin	-11812 Jun 04 j 02:43	18°♓08'41	
behind sun end	-11812 Jun 04 j 15:51	18°♓10'43	
max. Earth dist.	-11812 Jun 03 j 12:01	18°♓06'19	19.29485 AU
asc. node	-11812 Jun 08 j 21:24	18°♓26'54	
morning rise	-11812 Jun 20 j 06:29	19°♓09'58	
retrograde	-11812 Sep 19 j 05:28	22°♓32'08	
opposition	-11812 Dec 02 j 07:06	20°♓30'27	0°03'14
min. Earth dist.	-11812 Dec 03 j 01:45	20°♓28'28	17.30640 AU
direct	-11811 Feb 17 j 11:41	18°♓24'28	
evening set	-11811 May 24 j 09:16	21°♓55'21	
conjunction	-11811 Jun 09 j 09:12	22°♓55'59	0°06'05
minimum elong	-11811 Jun 09 j 09:12	22°♓55'58	0°05'59
behind sun begin	-11811 Jun 09 j 02:53	22°♓55'00	
behind sun end	-11811 Jun 09 j 15:30	22°♓56'57	
max. Earth dist.	-11811 Jun 08 j 14:40	22°♓53'02	19.31904 AU
morning rise	-11811 Jun 25 j 05:21	23°♓56'03	
retrograde	-11811 Sep 24 j 05:59	27°♓18'02	
opposition	-11811 Dec 07 j 11:13	25°♓16'21	0°10'01
min. Earth dist.	-11811 Dec 08 j 02:44	25°♓14'42	17.33332 AU
direct	-11810 Feb 22 j 18:11	23°♓10'36	
evening set	-11810 May 29 j 09:36	26°♓40'45	
conjunction	-11810 Jun 14 j 08:17	27°♓41'08	0°12'06
minimum elong	-11810 Jun 14 j 08:16	27°♓41'08	0°12'02
behind sun begin	-11810 Jun 14 j 03:42	27°♓40'25	
behind sun end	-11810 Jun 14 j 12:50	27°♓41'50	
max. Earth dist.	-11810 Jun 13 j 16:29	27°♓38'38	19.34891 AU
morning rise	-11810 Jun 30 j 03:19	28°♓40'59	
	-11810 Jul 22 j 13:25	0°♈	
retrograde	-11810 Sep 29 j 04:09	2°♈02'45	
opposition	-11810 Dec 12 j 15:22	0°♈01'06	0°16'42
min. Earth dist.	-11810 Dec 13 j 05:14	29°♓59'37	17.36624 AU
	-11810 Dec 13 j 01:42	30°℞♓	
direct	-11809 Feb 27 j 21:49	27°♓55'36	
	-11809 May 10 j 02:02	0°♈	
evening set	-11809 Jun 03 j 09:10	1°♈24'58	
conjunction	-11809 Jun 19 j 06:35	2°♈25'04	0°18'01
minimum elong	-11809 Jun 19 j 06:35	2°♈25'04	0°18'01
max. Earth dist.	-11809 Jun 18 j 17:28	2°♈22'59	19.38493 AU
morning rise	-11809 Jul 05 j 00:43	3°♈24'41	
retrograde	-11809 Oct 04 j 04:18	6°♈46'12	
opposition	-11809 Dec 17 j 19:04	4°♈44'36	0°23'15
min. Earth dist.	-11809 Dec 18 j 05:12	4°♈43'31	17.40520 AU
direct	-11808 Mar 04 j 02:53	2°♈39'25	
evening set	-11808 Jun 07 j 07:48	6°♈07'53	
conjunction	-11808 Jun 23 j 04:09	7°♈07'43	0°23'48
minimum elong	-11808 Jun 23 j 04:09	7°♈07'43	0°23'51
max. Earth dist.	-11808 Jun 22 j 18:22	7°♈06'10	19.42684 AU
morning rise	-11808 Jul 08 j 21:18	8°♈07'06	
retrograde	-11808 Oct 08 j 02:01	11°♈28'19	
opposition	-11808 Dec 21 j 22:41	9°♈26'48	0°29'37
min. Earth dist.	-11808 Dec 22 j 07:05	9°♈25'55	17.45000 AU
direct	-11807 Mar 09 j 05:02	7°♈22'00	
evening set	-11807 Jun 12 j 05:43	10°♈49'30	
conjunction	-11807 Jun 28 j 00:51	11°♈49'02	0°29'24
minimum elong	-11807 Jun 28 j 00:50	11°♈49'02	0°29'31
max. Earth dist.	-11807 Jun 27 j 17:24	11°♈47'52	19.47447 AU
morning rise	-11807 Jul 13 j 17:14	12°♈48'11	
retrograde	-11807 Oct 13 j 01:37	16°♈09'04	
opposition	-11807 Dec 27 j 01:45	14°♈07'41	0°35'45
min. Earth dist.	-11807 Dec 27 j 06:21	14°♈07'12	17.50016 AU
direct	-11806 Mar 14 j 08:07	12°♈03'17	
evening set	-11806 Jun 17 j 02:43	15°♈29'46	
conjunction	-11806 Jul 02 j 20:54	16°♈29'01	0°34'47
minimum elong	-11806 Jul 02 j 20:53	16°♈29'01	0°34'57
max. Earth dist.	-11806 Jul 02 j 17:08	16°♈28'25	19.52709 AU
morning rise	-11806 Jul 18 j 12:23	17°♈27'53	
retrograde	-11806 Oct 17 j 23:24	20°♈48'26	
opposition	-11805 Jan 01 j 04:47	18°♈47'11	0°41'37
min. Earth dist.	-11805 Jan 01 j 07:39	18°♈46'53	17.55507 AU
direct	-11805 Mar 19 j 09:18	16°♈43'15	
evening set	-11805 Jun 21 j 22:53	20°♈08'36	
conjunction	-11805 Jul 07 j 15:56	21°♈07'32	0°39'56
minimum elong	-11805 Jul 07 j 15:56	21°♈07'32	0°40'08
max. Earth dist.	-11805 Jul 07 j 14:10	21°♈07'15	19.58411 AU
morning rise	-11805 Jul 23 j 06:54	22°♈06'10	
retrograde	-11805 Oct 22 j 22:13	25°♈26'20	
opposition	-11804 Jan 06 j 07:10	23°♈25'13	0°47'11
min. Earth dist.	-11804 Jan 06 j 06:29	23°♈25'17	17.61391 AU
direct	-11804 Mar 23 j 10:55	21°♈21'44	
evening set	-11804 Jun 25 j 18:11	24°♈45'55	
conjunction	-11804 Jul 11 j 10:28	25°♈44'33	0°44'47
minimum elong	-11804 Jul 11 j 10:28	25°♈44'33	0°45'03
max. Earth dist.	-11804 Jul 11 j 12:19	25°♈44'50	19.64447 AU
morning rise	-11804 Jul 27 j 00:39	26°♈42'54	
	-11804 Oct 16 j 21:08	0°♉	
retrograde	-11804 Oct 26 j 19:00	0°♉02'38	
	-11804 Nov 05 j 17:49	30°℞♈	
opposition	-11803 Jan 10 j 09:02	28°♈01'40	0°52'25
min. Earth dist.	-11803 Jan 10 j 06:45	28°♈01'54	17.67570 AU
direct	-11803 Mar 28 j 11:56	25°♈58'39	
evening set	-11803 Jun 30 j 12:48	29°♈21'36	
	-11803 Jul 10 j 20:57	0°♉	
conjunction	-11803 Jul 16 j 04:04	0°♉19'55	0°49'19
minimum elong	-11803 Jul 16 j 04:03	0°♉19'54	0°49'37
max. Earth dist.	-11803 Jul 16 j 07:23	0°♉20'26	19.70748 AU
morning rise	-11803 Jul 31 j 17:51	1°♉18'00	
retrograde	-11803 Oct 31 j 16:17	4°♉37'17	
opposition	-11802 Jan 15 j 10:24	2°♉36'25	0°57'16
min. Earth dist.	-11802 Jan 15 j 04:56	2°♉36'59	17.73980 AU
direct	-11802 Apr 02 j 12:20	0°♉33'51	
evening set	-11802 Jul 05 j 06:15	3°♉55'30	
conjunction	-11802 Jul 20 j 20:54	4°♉53'30	0°53'30
minimum elong	-11802 Jul 20 j 20:54	4°♉53'30	0°53'52
max. Earth dist.	-11802 Jul 21 j 03:46	4°♉54'35	19.77232 AU
morning rise	-11802 Aug 05 j 10:04	5°♉51'19	
retrograde	-11802 Nov 05 j 11:46	9°♉10'07	
opposition	-11801 Jan 20 j 11:17	7°♉09'21	1°01'43

Attention, astronomical year style is used: The year -11801 in astronomical counting style is the year 11802 BCE in historical counting style.

min. Earth dist.	-11801 Jan 20 j 04:00	7°♉10'06	17.80535 AU
direct	-11801 Apr 07 j 12:57	5°♉07'12	
evening set	-11801 Jul 09 j 23:04	8°♉27'31	
conjunction	-11801 Jul 25 j 12:53	9°♉25'13	0°57'20
minimum elong	-11801 Jul 25 j 12:52	9°♉25'13	0°57'44
max. Earth dist.	-11801 Jul 25 j 20:58	9°♉26'28	19.83843 AU
morning rise	-11801 Aug 10 j 01:53	10°♉22'46	
retrograde	-11801 Nov 10 j 06:56	13°♉41'02	
opposition	-11800 Jan 25 j 11:12	11°♉40'19	1°05'45
min. Earth dist.	-11800 Jan 25 j 01:14	11°♉41'21	17.87202 AU
direct	-11800 Apr 11 j 11:41	9°♉38'34	
evening set	-11800 Jul 13 j 14:43	12°♉57'32	
conjunction	-11800 Jul 29 j 04:09	13°♉54'55	1°00'47
minimum elong	-11800 Jul 29 j 04:09	13°♉54'55	1°01'13
max. Earth dist.	-11800 Jul 29 j 15:33	13°♉56'41	19.90535 AU
morning rise	-11800 Aug 13 j 16:44	14°♉52'13	
	-11800 Aug 15 j 20:30	15°♉	
retrograde	-11800 Nov 14 j 00:40	18°♉09'54	
opposition	-11799 Jan 29 j 10:26	16°♉09'15	1°09'20
min. Earth dist.	-11799 Jan 28 j 22:31	16°♉10'28	17.93921 AU
	-11799 Feb 28 j 06:47	15°℞♉	
direct	-11799 Apr 16 j 10:34	14°♉07'53	
	-11799 May 31 j 12:52	15°♉	
evening set	-11799 Jul 18 j 05:31	17°♉25'27	
conjunction	-11799 Aug 02 j 18:17	18°♉22'31	1°03'49
minimum elong	-11799 Aug 02 j 18:17	18°♉22'31	1°04'19
max. Earth dist.	-11799 Aug 03 j 06:54	18°♉24'28	19.97279 AU
morning rise	-11799 Aug 18 j 06:53	19°♉19'34	
retrograde	-11799 Nov 18 j 18:10	22°♉36'40	
opposition	-11798 Feb 03 j 08:52	20°♉36'02	1°12'29
min. Earth dist.	-11798 Feb 02 j 18:36	20°♉37'30	18.00702 AU
direct	-11798 Apr 21 j 07:05	18°♉35'01	
evening set	-11798 Jul 22 j 19:14	21°♉51'10	
conjunction	-11798 Aug 07 j 07:48	22°♉47'57	1°06'28
minimum elong	-11798 Aug 07 j 07:48	22°♉47'57	1°06'59
max. Earth dist.	-11798 Aug 07 j 23:45	22°♉50'24	20.04081 AU
morning rise	-11798 Aug 22 j 20:11	23°♉44'45	
retrograde	-11798 Nov 23 j 10:18	27°♉01'14	
opposition	-11797 Feb 08 j 06:24	25°♉00'38	1°15'10
min. Earth dist.	-11797 Feb 07 j 13:50	25°♉02'19	18.07534 AU
direct	-11797 Apr 26 j 03:40	22°♉59'57	
evening set	-11797 Jul 27 j 08:06	26°♉14'42	
conjunction	-11797 Aug 11 j 20:14	27°♉11'11	1°08'42
minimum elong	-11797 Aug 11 j 20:14	27°♉11'11	1°09'16
max. Earth dist.	-11797 Aug 12 j 13:30	27°♉13'50	20.10942 AU
morning rise	-11797 Aug 27 j 08:50	28°♉07'45	
	-11797 Oct 01 j 03:51	0°♊	
retrograde	-11797 Nov 28 j 02:24	1°♊23'38	
	-11796 Jan 28 j 19:01	30°℞♉	
min. Earth dist.	-11796 Feb 12 j 08:28	29°♉24'55	18.14442 AU
opposition	-11796 Feb 13 j 03:02	29°♉23'02	1°17'24
direct	-11796 Apr 29 j 21:43	27°♉22'42	
	-11796 Jul 20 j 12:09	0°♊	
evening set	-11796 Jul 30 j 20:01	0°♊36'03	
conjunction	-11796 Aug 15 j 08:06	1°♊32'17	1°10'31
minimum elong	-11796 Aug 15 j 08:06	1°♊32'17	1°11'05
max. Earth dist.	-11796 Aug 16 j 04:33	1°♊35'24	20.17873 AU
morning rise	-11796 Aug 30 j 20:38	2°♊28'36	
retrograde	-11796 Dec 01 j 17:23	5°♊43'51	
opposition	-11795 Feb 16 j 22:34	3°♊43'19	1°19'10
min. Earth dist.	-11795 Feb 16 j 01:28	3°♊45'28	18.21407 AU
direct	-11795 May 04 j 16:11	1°♊43'20	
evening set	-11795 Aug 04 j 07:15	4°♊55'21	
conjunction	-11795 Aug 19 j 19:03	5°♊51'18	1°11'56
minimum elong	-11795 Aug 19 j 19:03	5°♊51'18	1°12'32
max. Earth dist.	-11795 Aug 20 j 16:48	5°♊54'36	20.24867 AU
morning rise	-11795 Sep 04 j 07:56	6°♊47'25	
retrograde	-11795 Dec 06 j 08:06	10°♊02'04	
opposition	-11794 Feb 21 j 17:27	8°♊01'35	1°20'29
min. Earth dist.	-11794 Feb 20 j 18:41	8°♊03'54	18.28444 AU
direct	-11794 May 09 j 07:35	6°♊02'00	
evening set	-11794 Aug 08 j 17:23	9°♊12'41	
conjunction	-11794 Aug 24 j 05:22	10°♊08'24	1°12'56
minimum elong	-11794 Aug 24 j 05:22	10°♊08'24	1°13'34
max. Earth dist.	-11794 Aug 25 j 06:06	10°♊12'09	20.31916 AU
morning rise	-11794 Sep 08 j 18:26	11°♊04'19	
retrograde	-11794 Dec 10 j 22:39	14°♊18'23	
min. Earth dist.	-11793 Feb 25 j 10:05	12°♊20'34	18.35494 AU
opposition	-11793 Feb 26 j 11:22	12°♊18'01	1°21'20
direct	-11793 May 14 j 00:21	10°♊18'49	
evening set	-11793 Aug 13 j 03:07	13°♊28'14	
conjunction	-11793 Aug 28 j 15:04	14°♊23'44	1°13'32
minimum elong	-11793 Aug 28 j 15:04	14°♊23'44	1°14'10
max. Earth dist.	-11793 Aug 29 j 16:55	14°♊27'37	20.38951 AU
morning rise	-11793 Sep 13 j 04:41	15°♊19'27	
retrograde	-11793 Dec 15 j 12:02	18°♊32'57	
min. Earth dist.	-11792 Mar 01 j 02:07	16°♊35'21	18.42517 AU
opposition	-11792 Mar 02 j 04:21	16°♊32'42	1°21'45
direct	-11792 May 17 j 13:14	14°♊33'54	
evening set	-11792 Aug 16 j 11:59	17°♊42'06	
conjunction	-11792 Sep 01 j 00:16	18°♊37'23	1°13'44
minimum elong	-11792 Sep 01 j 00:16	18°♊37'23	1°14'24
max. Earth dist.	-11792 Sep 02 j 04:32	18°♊41'37	20.45925 AU
morning rise	-11792 Sep 16 j 14:14	19°♊32'56	
retrograde	-11792 Dec 19 j 01:57	22°♊45'52	
opposition	-11791 Mar 06 j 20:30	20°♊45'45	1°21'42
min. Earth dist.	-11791 Mar 05 j 16:05	20°♊48'37	18.49422 AU
direct	-11791 May 22 j 04:16	18°♊47'22	
evening set	-11791 Aug 20 j 20:20	21°♊54'23	
conjunction	-11791 Sep 05 j 08:44	22°♊49'29	1°13'31
minimum elong	-11791 Sep 05 j 08:44	22°♊49'29	1°14'11
max. Earth dist.	-11791 Sep 06 j 13:50	22°♊53'49	20.52743 AU
morning rise	-11791 Sep 20 j 23:22	23°♊44'52	
retrograde	-11791 Dec 23 j 14:19	26°♊57'17	
min. Earth dist.	-11790 Mar 10 j 07:16	25°♊00'12	18.56154 AU
opposition	-11790 Mar 11 j 12:05	24°♊57'18	1°21'13
direct	-11790 May 26 j 15:30	22°♊59'16	
evening set	-11790 Aug 25 j 04:07	26°♊05'11	
conjunction	-11790 Sep 09 j 17:01	27°♊00'05	1°12'55
minimum elong	-11790 Sep 09 j 17:01	27°♊00'05	1°13'36
max. Earth dist.	-11790 Sep 10 j 23:59	27°♊04'41	20.59355 AU
morning rise	-11790 Sep 25 j 08:10	27°♊55'20	
	-11790 Nov 05 j 07:38	0°♋	
retrograde	-11790 Dec 28 j 03:25	1°♋07'12	
	-11789 Feb 21 j 12:18	30°℞♊	
min. Earth dist.	-11789 Mar 14 j 19:59	29°♊10'25	18.62629 AU
opposition	-11789 Mar 16 j 02:36	29°♊07'21	1°20'18
direct	-11789 May 31 j 05:02	27°♊09'40	
	-11789 Aug 25 j 06:08	0°♋	
evening set	-11789 Aug 29 j 11:33	0°♋14'30	
conjunction	-11789 Sep 14 j 00:47	1°♋09'14	1°11'56

Attention, astronomical year style is used: The year -11789 in astronomical counting style is the year 11790 BCE in historical counting style.

minimum elong	-11789 Sep 14 j 00:47	1°♋09'14	1°12'36	
max. Earth dist.	-11789 Sep 15 j 08:04	1°♋13'52	20.65668 AU	
morning rise	-11789 Sep 29 j 16:45	2°♋04'22		
retrograde	-11788 Jan 01 j 15:04	5°♋15'43		
min. Earth dist.	-11788 Mar 18 j 10:09	3°♋19'00	18.68782 AU	
opposition	-11788 Mar 19 j 16:31	3°♋15'57	1°18'58	
direct	-11788 Jun 03 j 14:58	1°♋18'35		
evening set	-11788 Sep 01 j 18:22	4°♋22'23		
conjunction	-11788 Sep 17 j 08:14	5°♋16'59	1°10'34	
minimum elong	-11788 Sep 17 j 08:14	5°♋16'59	1°11'14	
max. Earth dist.	-11788 Sep 18 j 16:45	5°♋21'46	20.71632 AU	
morning rise	-11788 Oct 03 j 00:50	6°♋11'59		
retrograde	-11787 Jan 05 j 02:46	9°♋22'49		
min. Earth dist.	-11787 Mar 22 j 21:33	7°♋26'20	18.74546 AU	
opposition	-11787 Mar 24 j 05:25	7°♋23'08	1°17'14	
direct	-11787 Jun 08 j 03:10	5°♋26'02		
evening set	-11787 Sep 06 j 00:51	8°♋28'50		
conjunction	-11787 Sep 21 j 15:12	9°♋23'18	1°08'51	
minimum elong	-11787 Sep 21 j 15:12	9°♋23'18	1°09'31	
max. Earth dist.	-11787 Sep 22 j 23:43	9°♋28'04	20.77191 AU	
morning rise	-11787 Oct 07 j 08:45	10°♋18'12		
retrograde	-11786 Jan 09 j 13:27	13°♋28'33		
min. Earth dist.	-11786 Mar 27 j 10:32	11°♋32'01	18.79905 AU	
opposition	-11786 Mar 28 j 17:48	11°♋28'53	1°15'08	
direct	-11786 Jun 12 j 12:04	9°♋32'01		
evening set	-11786 Sep 10 j 06:40	12°♋33'51		
conjunction	-11786 Sep 25 j 21:52	13°♋28'13	1°06'48	
minimum elong	-11786 Sep 25 j 21:52	13°♋28'13	1°07'27	
max. Earth dist.	-11786 Sep 27 j 07:17	13°♋33'06	20.82343 AU	
morning rise	-11786 Oct 11 j 16:14	14°♋23'02		
retrograde	-11785 Jan 14 j 00:00	17°♋32'52		
min. Earth dist.	-11785 Mar 31 j 20:40	15°♋36'29	18.84837 AU	
opposition	-11785 Apr 02 j 05:12	15°♋33'13	1°12'39	
direct	-11785 Jun 16 j 22:36	13°♋36'31		
evening set	-11785 Sep 14 j 12:18	16°♋37'28		
conjunction	-11785 Sep 30 j 04:08	17°♋31'44	1°04'26	
minimum elong	-11785 Sep 30 j 04:08	17°♋31'44	1°05'05	
max. Earth dist.	-11785 Oct 01 j 13:25	17°♋36'34	20.87066 AU	
morning rise	-11785 Oct 15 j 23:34	18°♋26'29		
retrograde	-11784 Jan 18 j 08:48	21°♋35'49		
min. Earth dist.	-11784 Apr 04 j 08:10	19°♋39'20	18.89366 AU	
opposition	-11784 Apr 05 j 15:46	19°♋36'09	1°09'50	
direct	-11784 Jun 20 j 06:38	17°♋39'35		
evening set	-11784 Sep 17 j 17:22	20°♋39'43		
conjunction	-11784 Oct 03 j 10:07	21°♋33'54	1°01'45	
minimum elong	-11784 Oct 03 j 10:07	21°♋33'54	1°02'23	
max. Earth dist.	-11784 Oct 04 j 20:10	21°♋38'50	20.91409 AU	
morning rise	-11784 Oct 19 j 06:26	22°♋28'35		
retrograde	-11783 Jan 21 j 18:40	25°♋37'28		
min. Earth dist.	-11783 Apr 08 j 16:45	23°♋41'04	18.93521 AU	
opposition	-11783 Apr 10 j 01:34	23°♋37'47	1°06'42	
direct	-11783 Jun 24 j 15:16	21°♋41'20		
evening set	-11783 Sep 21 j 22:07	24°♋40'41		
conjunction	-11783 Oct 07 j 15:36	25°♋34'48	0°58'48	
minimum elong	-11783 Oct 07 j 15:36	25°♋34'48	0°59'25	
max. Earth dist.	-11783 Oct 09 j 01:37	25°♋39'43	20.95387 AU	
morning rise	-11783 Oct 23 j 13:02	26°♋29'28		
retrograde	-11782 Jan 26 j 02:00	29°♋37'55		
min. Earth dist.	-11782 Apr 13 j 03:00	27°♋41'25	18.97338 AU	
opposition	-11782 Apr 14 j 10:53	27°♋38'13	1°03'15	
direct	-11782 Jun 28 j 22:03	25°♋41'52		
evening set	-11782 Sep 26 j 02:39	28°♋40'33		
conjunction	-11782 Oct 11 j 21:10	29°♋34'38	0°55'34	
minimum elong	-11782 Oct 11 j 21:11	29°♋34'38	0°56'09	
max. Earth dist.	-11782 Oct 13 j 07:46	29°♋39'37	20.99047 AU	
	-11782 Oct 19 j 05:31	0°♌		
morning rise	-11782 Oct 27 j 19:35	0°♌29'15		
retrograde	-11781 Jan 30 j 11:35	3°♌37'19		
min. Earth dist.	-11781 Apr 17 j 10:22	1°♌40'55	19.00831 AU	
opposition	-11781 Apr 18 j 19:13	1°♌37'37	0°59'31	
	-11781 Jun 05 j 19:19	30°℞♋		
direct	-11781 Jul 03 j 05:20	29°♋41'23		
	-11781 Jul 30 j 01:07	0°♌		
evening set	-11781 Sep 30 j 07:09	2°♌39'29		
conjunction	-11781 Oct 16 j 02:32	3°♌33'32	0°52'05	
minimum elong	-11781 Oct 16 j 02:32	3°♌33'32	0°52'40	
max. Earth dist.	-11781 Oct 17 j 12:47	3°♌38'27	21.02371 AU	
morning rise	-11781 Nov 01 j 02:07	4°♌28'09		
retrograde	-11780 Feb 03 j 18:07	7°♌35'53		
min. Earth dist.	-11780 Apr 20 j 19:37	5°♌39'23	19.03989 AU	
opposition	-11780 Apr 22 j 03:15	5°♌36'12	0°55'31	
direct	-11780 Jul 06 j 10:15	3°♌40'04		
evening set	-11780 Oct 03 j 11:18	6°♌37'40		
conjunction	-11780 Oct 19 j 07:47	7°♌31'43	0°48'21	
minimum elong	-11780 Oct 19 j 07:47	7°♌31'43	0°48'55	
max. Earth dist.	-11780 Oct 20 j 18:16	7°♌36'39	21.05364 AU	
morning rise	-11780 Nov 04 j 08:22	8°♌26'20		
retrograde	-11779 Feb 07 j 03:24	11°♌33'46		
min. Earth dist.	-11779 Apr 25 j 02:16	9°♌37'23	19.06793 AU	
opposition	-11779 Apr 26 j 10:35	9°♌34'08	0°51'16	
direct	-11779 Jul 10 j 16:42	7°♌38'07		
evening set	-11779 Oct 07 j 15:39	10°♌35'17		
conjunction	-11779 Oct 23 j 13:03	11°♌29'21	0°44'24	
minimum elong	-11779 Oct 23 j 13:03	11°♌29'21	0°44'56	
max. Earth dist.	-11779 Oct 24 j 22:54	11°♌34'11	21.07981 AU	
morning rise	-11779 Nov 08 j 14:51	12°♌24'00		
	-11778 Jan 06 j 03:36	15°♌		
retrograde	-11778 Feb 11 j 09:39	15°♌31'12		
	-11778 Mar 20 j 08:36	15°℞♌		
min. Earth dist.	-11778 Apr 29 j 10:57	13°♌34'41	19.09211 AU	
opposition	-11778 Apr 30 j 17:38	13°♌31'36	0°46'46	
direct	-11778 Jul 14 j 20:23	11°♌35'41		
evening set	-11778 Oct 11 j 19:57	14°♌32'31		
	-11778 Oct 19 j 23:35	15°♌		
conjunction	-11778 Oct 27 j 18:32	15°♌26'36	0°40'15	
minimum elong	-11778 Oct 27 j 18:32	15°♌26'36	0°40'45	
max. Earth dist.	-11778 Oct 29 j 04:07	15°♌31'24	21.10200 AU	
morning rise	-11778 Nov 12 j 21:25	16°♌21'18		
retrograde	-11777 Feb 15 j 18:53	19°♌28'17		
min. Earth dist.	-11777 May 03 j 17:16	17°♌31'51	19.11195 AU	
opposition	-11777 May 05 j 00:08	17°♌28'45	0°42'04	
direct	-11777 Jul 19 j 02:09	15°♌32'54		
evening set	-11777 Oct 16 j 00:36	18°♌29'31		
conjunction	-11777 Nov 01 j 00:08	19°♌23'38	0°35'54	
minimum elong	-11777 Nov 01 j 00:09	19°♌23'38	0°36'21	
max. Earth dist.	-11777 Nov 02 j 08:32	19°♌28'15	21.11942 AU	
morning rise	-11777 Nov 17 j 04:12	20°♌18'23		
retrograde	-11776 Feb 20 j 01:15	23°♌25'13		
min. Earth dist.	-11776 May 07 j 01:35	21°♌28'37	19.12687 AU	
opposition	-11776 May 08 j 06:19	21°♌25'44	0°37'09	
direct	-11776 Jul 22 j 05:23	19°♌29'56		
evening set	-11776 Oct 19 j 05:19	22°♌26'22		

Attention, astronomical year style is used: The year -11776 in astronomical counting style is the year 11777 BCE in historical counting style.

conjunction	-11776 Nov 04 j 06:03	23°♌20'34	0°31'23
minimum elong	-11776 Nov 04 j 06:03	23°♌20'34	0°31'49
max. Earth dist.	-11776 Nov 05 j 13:36	23°♌25'03	21.13186 AU
morning rise	-11776 Nov 20 j 11:10	24°♌15'22	
retrograde	-11775 Feb 23 j 10:12	27°♌22'05	
min. Earth dist.	-11775 May 11 j 07:41	25°♌25'30	19.13651 AU
opposition	-11775 May 12 j 12:12	25°♌22'38	0°32'04
direct	-11775 Jul 26 j 10:38	23°♌26'51	
evening set	-11775 Oct 23 j 10:16	26°♌23'11	
conjunction	-11775 Nov 08 j 12:02	27°♌17'27	0°26'43
minimum elong	-11775 Nov 08 j 12:02	27°♌17'28	0°27'06
max. Earth dist.	-11775 Nov 09 j 17:59	27°♌21'42	21.13864 AU
morning rise	-11775 Nov 24 j 18:21	28°♌12'21	
	-11775 Dec 30 j 20:48	0°♍	
retrograde	-11774 Feb 27 j 16:59	1°♍18'58	
	-11774 Apr 29 j 16:23	30°℞♌	
opposition	-11774 May 16 j 18:00	29°♌19'32	0°26'50
min. Earth dist.	-11774 May 15 j 15:55	29°♌22'09	19.14034 AU
direct	-11774 Jul 30 j 13:51	27°♌23'43	
	-11774 Oct 21 j 12:47	0°♍	
evening set	-11774 Oct 27 j 15:34	0°♍20'01	
conjunction	-11774 Nov 12 j 18:35	1°♍14'24	0°21'56
minimum elong	-11774 Nov 12 j 18:35	1°♍14'24	0°22'17
max. Earth dist.	-11774 Nov 13 j 23:09	1°♍18'26	21.13962 AU
morning rise	-11774 Nov 29 j 01:58	2°♍09'22	
retrograde	-11773 Mar 04 j 01:29	5°♍15'56	
opposition	-11773 May 20 j 23:18	3°♍16'27	0°21'29
min. Earth dist.	-11773 May 19 j 21:50	3°♍19'02	19.13820 AU
direct	-11773 Aug 03 j 18:59	1°♍20'33	
evening set	-11773 Oct 31 j 21:13	4°♍16'55	
conjunction	-11773 Nov 17 j 01:16	5°♍11'24	0°17'03
minimum elong	-11773 Nov 17 j 01:16	5°♍11'24	0°17'22
max. Earth dist.	-11773 Nov 18 j 03:54	5°♍15'09	21.13449 AU
morning rise	-11773 Dec 03 j 09:48	6°♍06'29	
retrograde	-11772 Mar 07 j 08:07	9°♍13'00	
min. Earth dist.	-11772 May 23 j 05:46	7°♍15'47	19.13012 AU
opposition	-11772 May 24 j 04:37	7°♍13'28	0°16'01
direct	-11772 Aug 06 j 22:07	5°♍17'26	
evening set	-11772 Nov 04 j 02:50	8°♍13'54	
conjunction	-11772 Nov 20 j 08:07	9°♍08'30	0°12'05
minimum elong	-11772 Nov 20 j 08:07	9°♍08'30	0°12'21
behind sun begin	-11772 Nov 20 j 03:45	9°♍07'54	
behind sun end	-11772 Nov 20 j 12:28	9°♍09'06	
max. Earth dist.	-11772 Nov 21 j 09:18	9°♍12'03	21.12377 AU
morning rise	-11772 Dec 06 j 17:40	10°♍03'41	
retrograde	-11771 Mar 11 j 16:27	13°♍10'12	
min. Earth dist.	-11771 May 27 j 11:23	11°♍12'50	19.11662 AU
opposition	-11771 May 28 j 09:35	11°♍10'35	0°10'30
direct	-11771 Aug 11 j 03:17	9°♍14'23	
evening set	-11771 Nov 08 j 09:02	12°♍11'02	
conjunction	-11771 Nov 24 j 15:20	13°♍05'46	0°07'04
minimum elong	-11771 Nov 24 j 15:20	13°♍05'46	0°07'19
behind sun begin	-11771 Nov 24 j 09:13	13°♍04'56	
behind sun end	-11771 Nov 24 j 21:27	13°♍06'36	
max. Earth dist.	-11771 Nov 25 j 14:39	13°♍09'03	21.10774 AU
morning rise	-11771 Dec 11 j 01:59	14°♍01'06	
retrograde	-11770 Mar 15 j 22:48	17°♍07'38	
opposition	-11770 Jun 01 j 14:26	15°♍07'55	0°04'55
min. Earth dist.	-11770 May 31 j 18:52	15°♍09'55	19.09821 AU
direct	-11770 Aug 15 j 06:17	13°♍11'31	
evening set	-11770 Nov 12 j 15:30	16°♍08'26	

conjunction	-11770 Nov 28 j 23:00	17°♍03'19	0°02'01
minimum elong	-11770 Nov 28 j 23:01	17°♍03'19	0°02'11
behind sun begin	-11770 Nov 28 j 16:20	17°♍02'24	
behind sun end	-11770 Nov 29 j 05:42	17°♍04'14	
max. Earth dist.	-11770 Nov 29 j 20:46	17°♍06'23	21.08722 AU
morning rise	-11770 Dec 15 j 10:40	17°♍58'47	
retrograde	-11769 Mar 20 j 07:41	21°♍05'23	
desc. node	-11769 Apr 22 j 22:45	20°♍38'54	
opposition	-11769 Jun 05 j 19:06	19°♍05'34	-0°00'41
min. Earth dist.	-11769 Jun 05 j 00:16	19°♍07'30	19.07550 AU
direct	-11769 Aug 19 j 11:14	17°♍08'58	
evening set	-11769 Nov 16 j 22:30	20°♍06'14	
conjunction	-11769 Dec 03 j 06:59	21°♍01'17	-0°03'11
minimum elong	-11769 Dec 03 j 06:59	21°♍01'17	0°03'03
behind sun begin	-11769 Dec 03 j 00:18	21°♍00'22	
behind sun end	-11769 Dec 03 j 13:39	21°♍02'12	
max. Earth dist.	-11769 Dec 04 j 02:50	21°♍04'05	21.06243 AU
morning rise	-11769 Dec 19 j 19:34	21°♍56'54	
retrograde	-11768 Mar 23 j 14:18	25°♍03'38	
opposition	-11768 Jun 08 j 23:50	23°♍03'44	-0°06'18
min. Earth dist.	-11768 Jun 08 j 07:33	23°♍05'24	19.04884 AU
direct	-11768 Aug 22 j 14:25	21°♍06'54	
evening set	-11768 Nov 20 j 05:50	24°♍04'36	
conjunction	-11768 Dec 06 j 15:27	24°♍59'50	-0°08'15
minimum elong	-11768 Dec 06 j 15:27	24°♍59'50	0°08'10
behind sun begin	-11768 Dec 06 j 09:31	24°♍59'01	
behind sun end	-11768 Dec 06 j 21:23	25°♍00'39	
max. Earth dist.	-11768 Dec 07 j 09:35	25°♍02'24	21.03411 AU
morning rise	-11768 Dec 23 j 04:57	25°♍55'37	
retrograde	-11767 Mar 27 j 23:43	29°♍02'31	
opposition	-11767 Jun 13 j 04:31	27°♍02'33	-0°11'54
min. Earth dist.	-11767 Jun 12 j 13:00	27°♍04'08	19.01872 AU
direct	-11767 Aug 26 j 19:07	25°♍05'30	
evening set	-11767 Nov 24 j 13:47	28°♍03'44	
conjunction	-11767 Dec 11 j 00:24	28°♍59'09	-0°13'17
minimum elong	-11767 Dec 11 j 00:23	28°♍59'09	0°13'14
behind sun begin	-11767 Dec 10 j 20:34	28°♍58'38	
behind sun end	-11767 Dec 11 j 04:12	28°♍59'41	
max. Earth dist.	-11767 Dec 11 j 16:32	29°♍01'26	21.00223 AU
morning rise	-11767 Dec 27 j 14:48	29°♍55'07	
	-11767 Dec 29 j 02:17	0°♎	
retrograde	-11766 Apr 01 j 07:29	3°♎02'14	
opposition	-11766 Jun 17 j 09:30	1°♎02'13	-0°17'28
min. Earth dist.	-11766 Jun 16 j 20:38	1°♎03'32	18.98512 AU
	-11766 Jul 13 j 22:35	30°℞♍	
direct	-11766 Aug 30 j 22:46	29°♍04'57	
	-11766 Oct 16 j 20:23	0°♎	
evening set	-11766 Nov 28 j 22:26	2°♎03'47	
conjunction	-11766 Dec 15 j 10:06	2°♎59'25	-0°18'17
minimum elong	-11766 Dec 15 j 10:06	2°♎59'25	0°18'17
max. Earth dist.	-11766 Dec 16 j 00:10	3°♎01'24	20.96705 AU
morning rise	-11765 Jan 01 j 01:19	3°♎55'34	
retrograde	-11765 Apr 05 j 17:43	7°♎02'57	
opposition	-11765 Jun 21 j 14:26	5°♎02'53	-0°22'59
min. Earth dist.	-11765 Jun 21 j 02:36	5°♎04'06	18.94816 AU
direct	-11765 Sep 04 j 04:00	3°♎05'25	
evening set	-11765 Dec 03 j 07:50	6°♎04'57	
conjunction	-11765 Dec 19 j 20:24	7°♎00'48	-0°23'13
minimum elong	-11765 Dec 19 j 20:24	7°♎00'48	0°23'17
max. Earth dist.	-11765 Dec 20 j 08:17	7°♎02'29	20.92829 AU
morning rise	-11764 Jan 05 j 12:21	7°♎57'08	
retrograde	-11764 Apr 09 j 02:21	11°♎04'49	

Attention, astronomical year style is used: The year -11764 in astronomical counting style is the year 11765 BCE in historical counting style.

opposition	-11764 Jun 24 j 19:52	9°♎04'44	-0°28'25
min. Earth dist.	-11764 Jun 24 j 10:50	9°♎05'40	18.90762 AU
direct	-11764 Sep 07 j 08:05	7°♎07'03	
evening set	-11764 Dec 06 j 17:46	10°♎07'21	
conjunction	-11764 Dec 23 j 07:17	11°♎03'25	-0°28'05
minimum elong	-11764 Dec 23 j 07:16	11°♎03'25	0°28'10
max. Earth dist.	-11764 Dec 23 j 16:47	11°♎04'46	20.88603 AU
morning rise	-11763 Jan 08 j 23:57	11°♎59'58	
retrograde	-11763 Apr 13 j 13:57	15°♎08'01	
opposition	-11763 Jun 29 j 01:29	13°♎07'53	-0°33'44
min. Earth dist.	-11763 Jun 28 j 17:46	13°♎08'41	18.86340 AU
direct	-11763 Sep 11 j 14:33	11°♎09'57	
evening set	-11763 Dec 11 j 04:47	14°♎11'06	
conjunction	-11763 Dec 27 j 19:08	15°♎07'25	-0°32'49
minimum elong	-11763 Dec 27 j 19:08	15°♎07'25	0°32'58
max. Earth dist.	-11763 Dec 28 j 02:11	15°♎08'25	20.83973 AU
morning rise	-11762 Jan 13 j 12:23	16°♎04'10	
retrograde	-11762 Apr 17 j 23:15	19°♎12'35	
opposition	-11762 Jul 03 j 07:28	17°♎12'26	-0°38'55
min. Earth dist.	-11762 Jul 03 j 02:54	17°♎12'54	18.81506 AU
direct	-11762 Sep 15 j 19:22	15°♎14'13	
evening set	-11762 Dec 15 j 16:40	18°♎16'16	
conjunction	-11761 Jan 01 j 07:50	19°♎12'50	-0°37'25
minimum elong	-11761 Jan 01 j 07:50	19°♎12'50	0°37'36
max. Earth dist.	-11761 Jan 01 j 11:51	19°♎13'25	20.78933 AU
morning rise	-11761 Jan 18 j 01:41	20°♎09'48	
retrograde	-11761 Apr 22 j 12:00	23°♎18'38	
opposition	-11761 Jul 07 j 13:54	21°♎18'24	-0°43'56
min. Earth dist.	-11761 Jul 07 j 10:59	21°♎18'43	18.76246 AU
direct	-11761 Sep 20 j 03:24	19°♎19'51	
evening set	-11761 Dec 20 j 05:17	22°♎22'53	
conjunction	-11760 Jan 05 j 21:11	23°♎19'42	-0°41'51
minimum elong	-11760 Jan 05 j 21:11	23°♎19'42	0°42'06
max. Earth dist.	-11760 Jan 05 j 22:35	23°♎19'55	20.73439 AU
morning rise	-11760 Jan 22 j 15:25	24°♎16'54	
retrograde	-11760 Apr 25 j 21:59	27°♎26'09	
opposition	-11760 Jul 10 j 20:52	25°♎25'49	-0°48'45
min. Earth dist.	-11760 Jul 10 j 21:04	25°♎25'48	18.70539 AU
direct	-11760 Sep 23 j 09:36	23°♎26'55	
evening set	-11760 Dec 23 j 18:43	26°♎30'57	
conjunction	-11759 Jan 09 j 11:19	27°♎28'02	-0°46'05
minimum elong	-11759 Jan 09 j 11:18	27°♎28'02	0°46'22
max. Earth dist.	-11759 Jan 09 j 09:27	27°♎27'46	20.67534 AU
morning rise	-11759 Jan 26 j 06:02	28°♎25'26	
	-11759 Feb 25 j 17:46	0°♏	
retrograde	-11759 Apr 30 j 11:07	1°♏35'08	
	-11759 Jul 05 j 00:52	30°℞♎	
opposition	-11759 Jul 15 j 04:05	29°♎34'40	-0°53'20
min. Earth dist.	-11759 Jul 15 j 06:04	29°♎34'28	18.64435 AU
direct	-11759 Sep 27 j 19:07	27°♎35'21	
	-11759 Dec 16 j 01:15	0°♏	
evening set	-11759 Dec 28 j 09:01	0°♏40'28	
conjunction	-11758 Jan 14 j 02:19	1°♏37'49	-0°50'06
minimum elong	-11758 Jan 14 j 02:18	1°♏37'49	0°50'25
max. Earth dist.	-11758 Jan 13 j 21:59	1°♏37'11	20.61236 AU
morning rise	-11758 Jan 30 j 21:17	2°♏35'27	
retrograde	-11758 May 04 j 22:02	5°♏45'35	
opposition	-11758 Jul 19 j 11:58	3°♏44'59	-0°57'40
min. Earth dist.	-11758 Jul 19 j 16:58	3°♏44'27	18.57968 AU
direct	-11758 Oct 02 j 03:03	1°♏45'14	
evening set	-11757 Jan 02 j 00:10	4°♏51'27	

conjunction	-11757 Jan 18 j 17:58	5°♏49'04	-0°53'52
minimum elong	-11757 Jan 18 j 17:58	5°♏49'04	0°54'15
max. Earth dist.	-11757 Jan 18 j 10:21	5°♏47'58	20.54627 AU
morning rise	-11757 Feb 04 j 13:18	6°♏46'56	
retrograde	-11757 May 09 j 11:36	9°♏57'32	
opposition	-11757 Jul 23 j 20:08	7°♏56'46	-1°01'43
min. Earth dist.	-11757 Jul 24 j 02:52	7°♏56'04	18.51233 AU
direct	-11757 Oct 06 j 13:39	5°♏56'34	
evening set	-11756 Jan 06 j 16:04	9°♏03'57	
conjunction	-11756 Jan 23 j 10:26	10°♏01'51	-0°57'22
minimum elong	-11756 Jan 23 j 10:25	10°♏01'51	0°57'46
max. Earth dist.	-11756 Jan 23 j 00:50	10°♏00'28	20.47772 AU
morning rise	-11756 Feb 09 j 05:47	10°♏59'57	
retrograde	-11756 May 12 j 23:48	14°♏11'03	
opposition	-11756 Jul 27 j 05:03	12°♏10'08	-1°05'27
min. Earth dist.	-11756 Jul 27 j 14:24	12°♏09'08	18.44298 AU
direct	-11756 Oct 09 j 23:16	10°♏09'28	
evening set	-11755 Jan 10 j 08:39	13°♏18'05	
conjunction	-11755 Jan 27 j 03:22	14°♏16'15	-1°00'35
minimum elong	-11755 Jan 27 j 03:22	14°♏16'15	1°01'02
max. Earth dist.	-11755 Jan 26 j 14:39	14°♏14'24	20.40774 AU
	-11755 Feb 08 j 16:57	15°♏	
morning rise	-11755 Feb 12 j 22:59	15°♏14'35	
retrograde	-11755 May 17 j 14:04	18°♏26'14	
opposition	-11755 Jul 31 j 14:27	16°♏25'09	-1°08'52
min. Earth dist.	-11755 Aug 01 j 01:22	16°♏24'00	18.37255 AU
	-11755 Sep 06 j 15:30	15°℞♏	
direct	-11755 Oct 14 j 10:40	14°♏24'02	
	-11755 Nov 20 j 22:01	15°♏	
evening set	-11754 Jan 15 j 02:14	17°♏33'56	
conjunction	-11754 Jan 31 j 21:25	18°♏32'23	-1°03'29
minimum elong	-11754 Jan 31 j 21:24	18°♏32'23	1°03'57
max. Earth dist.	-11754 Jan 31 j 07:05	18°♏30'18	20.33679 AU
morning rise	-11754 Feb 17 j 16:52	19°♏30'57	
retrograde	-11754 May 22 j 03:59	22°♏43'08	
opposition	-11754 Aug 05 j 00:32	20°♏41'57	-1°11'56
min. Earth dist.	-11754 Aug 05 j 13:46	20°♏40'33	18.30148 AU
direct	-11754 Oct 18 j 22:19	18°♏40'24	
evening set	-11753 Jan 19 j 20:48	21°♏51'38	
conjunction	-11753 Feb 05 j 16:06	22°♏50'22	-1°06'03
minimum elong	-11753 Feb 05 j 16:06	22°♏50'22	1°06'33
max. Earth dist.	-11753 Feb 04 j 22:34	22°♏47'47	20.26570 AU
morning rise	-11753 Feb 22 j 11:38	23°♏49'09	
retrograde	-11753 May 26 j 18:58	27°♏01'57	
opposition	-11753 Aug 09 j 11:23	25°♏00'40	-1°14'37
min. Earth dist.	-11753 Aug 10 j 02:05	24°♏59'05	18.23056 AU
direct	-11753 Oct 23 j 10:59	22°♏58'41	
evening set	-11752 Jan 24 j 15:58	26°♏11'17	
conjunction	-11752 Feb 10 j 11:35	27°♏10'18	-1°08'15
minimum elong	-11752 Feb 10 j 11:34	27°♏10'18	1°08'48
max. Earth dist.	-11752 Feb 09 j 16:53	27°♏07'33	20.19481 AU
morning rise	-11752 Feb 27 j 06:45	28°♏09'19	
	-11752 Apr 02 j 17:03	0°♐	
retrograde	-11752 May 30 j 10:36	1°♐22'43	
	-11752 Jul 28 j 16:21	30°℞♏	
opposition	-11752 Aug 12 j 23:03	29°♏21'23	-1°16'54
min. Earth dist.	-11752 Aug 13 j 15:42	29°♏19'36	18.15998 AU
direct	-11752 Oct 27 j 00:33	27°♏19'02	
	-11751 Jan 18 j 18:53	0°♐	
evening set	-11751 Jan 28 j 12:17	0°♐33'01	
max. Earth dist.	-11751 Feb 13 j 09:59	1°♐29'05	20.12462 AU

Attention, astronomical year style is used: The year -11751 in astronomical counting style is the year 11752 BCE in historical counting style.

conjunction	-11751 Feb 14 j 07:52	1°♐32'19	-1°10'06
minimum elong	-11751 Feb 14 j 07:51	1°♐32'19	1°10'40
morning rise	-11751 Mar 03 j 02:58	2°♐31'34	
retrograde	-11751 Jun 04 j 02:42	5°♐45'36	
opposition	-11751 Aug 17 j 11:21	3°♐44'13	-1°18'46
min. Earth dist.	-11751 Aug 18 j 05:39	3°♐42'15	18.09024 AU
direct	-11751 Oct 31 j 15:06	1°♐41'29	
evening set	-11750 Feb 02 j 09:29	4°♐56'56	
max. Earth dist.	-11750 Feb 18 j 06:22	5°♐53'06	20.05512 AU
conjunction	-11750 Feb 19 j 05:16	5°♐56'30	-1°11'32
minimum elong	-11750 Feb 19 j 05:16	5°♐56'30	1°12'09
morning rise	-11750 Mar 07 j 23:52	6°♐55'58	
retrograde	-11750 Jun 08 j 20:00	10°♐10'38	
opposition	-11750 Aug 22 j 00:42	8°♐09'14	-1°20'10
min. Earth dist.	-11750 Aug 22 j 20:50	8°♐07'04	18.02111 AU
direct	-11750 Nov 05 j 06:35	6°♐06'10	
evening set	-11749 Feb 07 j 07:45	9°♐23'03	
max. Earth dist.	-11749 Feb 23 j 01:06	10°♐18'58	19.98632 AU
conjunction	-11749 Feb 24 j 03:15	10°♐22'53	-1°12'34
minimum elong	-11749 Feb 24 j 03:15	10°♐22'53	1°13'11
morning rise	-11749 Mar 12 j 21:35	11°♐22'34	
retrograde	-11749 Jun 13 j 13:47	14°♐37'54	
opposition	-11749 Aug 26 j 14:55	12°♐36'28	-1°21'06
min. Earth dist.	-11749 Aug 27 j 12:54	12°♐34'06	17.95276 AU
direct	-11749 Nov 09 j 23:12	10°♐33'02	
evening set	-11748 Feb 12 j 06:44	13°♐51'21	
max. Earth dist.	-11748 Feb 27 j 23:15	14°♐47'23	19.91816 AU
conjunction	-11748 Feb 29 j 02:15	14°♐51'27	-1°13'10
minimum elong	-11748 Feb 29 j 02:15	14°♐51'27	1°13'48
morning rise	-11748 Mar 16 j 19:55	15°♐51'20	
retrograde	-11748 Jun 17 j 08:51	19°♐07'17	
opposition	-11748 Aug 30 j 06:05	17°♐05'51	-1°21'33
min. Earth dist.	-11748 Aug 31 j 05:36	17°♐03'18	17.88495 AU
direct	-11748 Nov 13 j 16:43	15°♐02'03	
evening set	-11747 Feb 16 j 06:39	18°♐21'46	
max. Earth dist.	-11747 Mar 03 j 19:34	19°♐17'33	19.85065 AU
conjunction	-11747 Mar 05 j 01:47	19°♐22'06	-1°13'18
minimum elong	-11747 Mar 05 j 01:47	19°♐22'06	1°13'57
morning rise	-11747 Mar 21 j 19:02	20°♐22'12	
retrograde	-11747 Jun 22 j 04:07	23°♐38'46	
opposition	-11747 Sep 03 j 22:13	21°♐37'16	-1°21'29
min. Earth dist.	-11747 Sep 04 j 23:42	21°♐34'30	17.81789 AU
direct	-11747 Nov 18 j 11:01	19°♐33'05	
evening set	-11746 Feb 21 j 07:18	22°♐54'11	
max. Earth dist.	-11746 Mar 08 j 19:17	23°♐50'03	19.78392 AU
conjunction	-11746 Mar 10 j 02:16	23°♐54'45	-1°12'59
minimum elong	-11746 Mar 10 j 02:16	23°♐54'45	1°13'38
morning rise	-11746 Mar 26 j 18:44	24°♐55'01	
retrograde	-11746 Jun 27 j 00:54	28°♐12'09	
opposition	-11746 Sep 08 j 15:10	26°♐10'36	-1°20'55
min. Earth dist.	-11746 Sep 09 j 17:45	26°♐07'43	17.75167 AU
direct	-11746 Nov 23 j 06:54	24°♐06'01	
evening set	-11745 Feb 26 j 08:46	27°♐28'27	
max. Earth dist.	-11745 Mar 13 j 17:31	28°♐24'06	19.71840 AU
conjunction	-11745 Mar 15 j 03:10	28°♐29'13	-1°12'13
minimum elong	-11745 Mar 15 j 03:10	28°♐29'13	1°12'53
morning rise	-11745 Mar 31 j 19:00	29°♐29'40	
	-11745 Apr 09 j 10:22	0°♑	
retrograde	-11745 Jul 01 j 20:57	2°♑47'21	
opposition	-11745 Sep 13 j 09:07	0°♑45'42	-1°19'50
min. Earth dist.	-11745 Sep 14 j 13:33	0°♑42'36	17.68715 AU
	-11745 Oct 01 j 07:28	30°℞♐	
direct	-11745 Nov 28 j 02:18	28°♐40'44	
	-11744 Jan 23 j 09:53	0°♑	
evening set	-11744 Mar 02 j 10:27	2°♑04'24	
max. Earth dist.	-11744 Mar 17 j 18:33	3°♑00'12	19.65489 AU
conjunction	-11744 Mar 19 j 04:29	3°♑05'24	-1°10'58
minimum elong	-11744 Mar 19 j 04:30	3°♑05'24	1°11'38
morning rise	-11744 Apr 04 j 19:29	4°♑05'59	
retrograde	-11744 Jul 05 j 19:16	7°♑24'12	
opposition	-11744 Sep 17 j 03:50	5°♑22'26	-1°18'13
min. Earth dist.	-11744 Sep 18 j 08:41	5°♑19'18	17.62483 AU
direct	-11744 Dec 02 j 00:36	3°♑17'05	
evening set	-11743 Mar 07 j 12:58	6°♑41'58	
max. Earth dist.	-11743 Mar 22 j 18:37	7°♑37'38	19.59401 AU
conjunction	-11743 Mar 24 j 06:20	7°♑43'08	-1°09'16
minimum elong	-11743 Mar 24 j 06:20	7°♑43'08	1°09'56
morning rise	-11743 Apr 09 j 20:31	8°♑43'52	
retrograde	-11743 Jul 10 j 15:23	12°♑02'34	
opposition	-11743 Sep 21 j 23:18	10°♑00'42	-1°16'06
min. Earth dist.	-11743 Sep 23 j 05:51	9°♑57'22	17.56569 AU
direct	-11743 Dec 06 j 21:19	7°♑54'58	
evening set	-11742 Mar 12 j 15:51	11°♑21'00	
max. Earth dist.	-11742 Mar 27 j 20:50	12°♑16'48	19.53670 AU
conjunction	-11742 Mar 29 j 08:38	12°♑22'20	-1°07'06
minimum elong	-11742 Mar 29 j 08:38	12°♑22'20	1°07'46
morning rise	-11742 Apr 14 j 21:54	13°♑23'11	
retrograde	-11742 Jul 15 j 14:39	16°♑42'21	
opposition	-11742 Sep 26 j 19:42	14°♑40'22	-1°13'28
min. Earth dist.	-11742 Sep 28 j 01:58	14°♑37'04	17.51035 AU
direct	-11742 Dec 11 j 21:49	12°♑34'19	
evening set	-11741 Mar 17 j 19:05	16°♑01'25	
max. Earth dist.	-11741 Apr 01 j 22:37	16°♑57'14	19.48352 AU
conjunction	-11741 Apr 03 j 11:03	17°♑02'52	-1°04'29
minimum elong	-11741 Apr 03 j 11:04	17°♑02'52	1°05'07
morning rise	-11741 Apr 19 j 23:18	18°♑03'49	
retrograde	-11741 Jul 20 j 11:20	21°♑23'27	
opposition	-11741 Oct 01 j 17:03	19°♑21'24	-1°10'20
min. Earth dist.	-11741 Oct 03 j 00:30	19°♑17'57	17.45968 AU
direct	-11741 Dec 16 j 20:26	17°♑15'03	
evening set	-11740 Mar 21 j 22:38	20°♑43'08	
max. Earth dist.	-11740 Apr 06 j 01:28	21°♑39'03	19.43546 AU
conjunction	-11740 Apr 07 j 13:47	21°♑44'42	-1°01'26
minimum elong	-11740 Apr 07 j 13:47	21°♑44'42	1°02'05
morning rise	-11740 Apr 24 j 01:04	22°♑45'44	
retrograde	-11740 Jul 24 j 11:16	26°♑05'47	
opposition	-11740 Oct 05 j 14:57	24°♑03'41	-1°06'43
min. Earth dist.	-11740 Oct 06 j 21:28	24°♑00'21	17.41428 AU
direct	-11740 Dec 20 j 22:40	21°♑57'06	
evening set	-11739 Mar 27 j 02:28	25°♑26'07	
max. Earth dist.	-11739 Apr 11 j 04:49	26°♑22'10	19.39285 AU
conjunction	-11739 Apr 12 j 16:47	26°♑27'47	-0°57'58
minimum elong	-11739 Apr 12 j 16:48	26°♑27'47	0°58'34
morning rise	-11739 Apr 29 j 02:55	27°♑28'52	
	-11739 Jun 17 j 02:00	0°♒	
retrograde	-11739 Jul 29 j 08:52	0°♒49'19	
	-11739 Sep 10 j 19:21	30°℞♑	
opposition	-11739 Oct 10 j 13:54	28°♑47'12	-1°02'38
min. Earth dist.	-11739 Oct 11 j 21:15	28°♑43'47	17.37459 AU
direct	-11739 Dec 25 j 22:40	26°♑40'28	
	-11738 Mar 29 j 10:42	0°♒	
evening set	-11738 Apr 01 j 06:36	0°♒10'19	

Attention, astronomical year style is used: The year -11738 in astronomical counting style is the year 11739 BCE in historical counting style.

max. Earth dist.	-11738 Apr 16 j 08:02	1°♒06'25	19.35620 AU
conjunction	-11738 Apr 17 j 19:52	1°♒12'02	-0°54'05
minimum elong	-11738 Apr 17 j 19:52	1°♒12'02	0°54'40
morning rise	-11738 May 04 j 05:00	2°♒13'09	
retrograde	-11738 Aug 03 j 09:48	5°♒34'00	
opposition	-11738 Oct 15 j 13:29	3°♒31'55	-0°58'06
min. Earth dist.	-11738 Oct 16 j 19:28	3°♒28'38	17.34085 AU
direct	-11738 Dec 31 j 02:27	1°♒25'05	
evening set	-11737 Apr 06 j 10:50	4°♒55'40	
conjunction	-11737 Apr 22 j 23:11	5°♒57'26	-0°49'49
minimum elong	-11737 Apr 22 j 23:11	5°♒57'26	0°50'23
max. Earth dist.	-11737 Apr 21 j 12:40	5°♒52'01	19.32550 AU
morning rise	-11737 May 09 j 07:02	6°♒58'34	
retrograde	-11737 Aug 08 j 08:34	10°♒19'46	
opposition	-11737 Oct 20 j 14:02	8°♒17'45	-0°53'09
min. Earth dist.	-11737 Oct 21 j 20:29	8°♒14'26	17.31313 AU
direct	-11736 Jan 05 j 03:54	6°♒10'53	
evening set	-11736 Apr 10 j 15:08	9°♒42'06	
max. Earth dist.	-11736 Apr 25 j 15:52	10°♒38'27	19.30081 AU
conjunction	-11736 Apr 27 j 02:17	10°♒43'52	-0°45'11
minimum elong	-11736 Apr 27 j 02:17	10°♒43'52	0°45'42
morning rise	-11736 May 13 j 09:09	11°♒45'01	
	-11736 Jul 28 j 06:45	15°♒	
retrograde	-11736 Aug 12 j 10:06	15°♒06'33	
	-11736 Aug 27 j 16:37	15°℞♒	
opposition	-11736 Oct 24 j 15:06	13°♒04'35	-0°47'48
min. Earth dist.	-11736 Oct 25 j 20:05	13°♒01'26	17.29119 AU
direct	-11735 Jan 09 j 08:29	10°♒57'44	
evening set	-11735 Apr 15 j 19:31	14°♒29'28	
	-11735 Apr 23 j 23:40	15°♒	
max. Earth dist.	-11735 Apr 30 j 21:08	15°♒26'05	19.28161 AU
conjunction	-11735 May 02 j 05:40	15°♒31'14	-0°40'14
minimum elong	-11735 May 02 j 05:41	15°♒31'14	0°40'43
morning rise	-11735 May 18 j 11:10	16°♒32'21	
retrograde	-11735 Aug 17 j 10:02	19°♒54'09	
opposition	-11735 Oct 29 j 16:57	17°♒52'16	-0°42'06
min. Earth dist.	-11735 Oct 30 j 22:05	17°♒49'06	17.27461 AU
direct	-11734 Jan 14 j 11:27	15°♒45'27	
evening set	-11734 Apr 21 j 00:03	19°♒17'34	
max. Earth dist.	-11734 May 06 j 00:17	20°♒14'08	19.26775 AU
conjunction	-11734 May 07 j 08:49	20°♒19'17	-0°34'58
minimum elong	-11734 May 07 j 08:50	20°♒19'17	0°35'25
morning rise	-11734 May 23 j 13:16	21°♒20'22	
retrograde	-11734 Aug 22 j 11:59	24°♒42'23	
opposition	-11734 Nov 03 j 19:27	22°♒40'34	-0°36'06
min. Earth dist.	-11734 Nov 04 j 23:02	22°♒37'35	17.26331 AU
direct	-11733 Jan 19 j 16:22	20°♒33'48	
evening set	-11733 Apr 26 j 04:05	24°♒06'10	
max. Earth dist.	-11733 May 11 j 05:40	25°♒03'02	19.25897 AU
conjunction	-11733 May 12 j 11:48	25°♒07'48	-0°29'28
minimum elong	-11733 May 12 j 11:48	25°♒07'49	0°29'52
morning rise	-11733 May 28 j 14:51	26°♒08'48	
retrograde	-11733 Aug 27 j 12:56	29°♒30'59	
opposition	-11733 Nov 08 j 22:33	27°♒29'14	-0°29'49
min. Earth dist.	-11733 Nov 10 j 01:34	27°♒26'18	17.25693 AU
direct	-11732 Jan 24 j 20:15	25°♒22'32	
evening set	-11732 Apr 30 j 08:07	28°♒54'59	
max. Earth dist.	-11732 May 15 j 08:34	29°♒51'47	19.25521 AU
conjunction	-11732 May 16 j 14:26	29°♒56'32	-0°23'45
minimum elong	-11732 May 16 j 14:26	29°♒56'32	0°24'07
	-11732 May 17 j 12:18	0°♓	
morning rise	-11732 Jun 01 j 16:26	0°♓57'26	
retrograde	-11732 Aug 31 j 14:37	4°♓19'43	
opposition	-11732 Nov 13 j 01:46	2°♓17'58	-0°23'20
min. Earth dist.	-11732 Nov 14 j 03:17	2°♓15'13	17.25570 AU
direct	-11731 Jan 29 j 00:59	0°♓11'20	
evening set	-11731 May 05 j 11:38	3°♓43'46	
conjunction	-11731 May 21 j 16:51	4°♓45'11	-0°17'53
minimum elong	-11731 May 21 j 16:51	4°♓45'11	0°18'11
max. Earth dist.	-11731 May 20 j 13:39	4°♓40'51	19.25656 AU
morning rise	-11731 Jun 06 j 17:31	5°♓45'57	
retrograde	-11731 Sep 05 j 15:51	9°♓08'16	
opposition	-11731 Nov 18 j 05:30	7°♓06'33	-0°16'42
min. Earth dist.	-11731 Nov 19 j 05:42	7°♓03'57	17.25950 AU
direct	-11730 Feb 03 j 05:57	5°♓00'02	
evening set	-11730 May 10 j 14:42	8°♓32'16	
conjunction	-11730 May 26 j 18:28	9°♓33'31	-0°11'54
minimum elong	-11730 May 26 j 18:29	9°♓33'31	0°12'10
behind sun begin	-11730 May 26 j 13:59	9°♓32'49	
behind sun end	-11730 May 26 j 22:59	9°♓34'13	
max. Earth dist.	-11730 May 25 j 16:13	9°♓29'21	19.26313 AU
morning rise	-11730 Jun 11 j 18:04	10°♓34'09	
retrograde	-11730 Sep 10 j 16:31	13°♓56'27	
opposition	-11730 Nov 23 j 09:27	11°♓54'43	-0°09'58
min. Earth dist.	-11730 Nov 24 j 08:01	11°♓52'18	17.26882 AU
direct	-11729 Feb 08 j 11:13	9°♓48'19	
evening set	-11729 May 15 j 17:04	13°♓20'13	
conjunction	-11729 May 31 j 19:40	14°♓21'17	-0°05'51
minimum elong	-11729 May 31 j 19:41	14°♓21'18	0°06'04
behind sun begin	-11729 May 31 j 13:22	14°♓20'19	
behind sun end	-11729 Jun 01 j 02:00	14°♓22'16	
max. Earth dist.	-11729 May 30 j 20:27	14°♓17'36	19.27534 AU
morning rise	-11729 Jun 16 j 18:03	15°♓21'45	
retrograde	-11729 Sep 15 j 16:56	18°♓43'59	
opposition	-11729 Nov 28 j 13:26	16°♓42'15	-0°03'10
min. Earth dist.	-11729 Nov 29 j 09:44	16°♓40'04	17.28378 AU
direct	-11728 Feb 13 j 17:26	14°♓36'00	
asc. node	-11728 May 17 j 13:55	17°♓59'15	
evening set	-11728 May 19 j 18:47	18°♓07'25	
conjunction	-11728 Jun 04 j 20:02	19°♓08'17	0°00'18
minimum elong	-11728 Jun 04 j 20:03	19°♓08'17	0°00'09
behind sun begin	-11728 Jun 04 j 13:32	19°♓07'17	
behind sun end	-11728 Jun 05 j 02:34	19°♓09'18	
max. Earth dist.	-11728 Jun 03 j 22:33	19°♓04'52	19.29332 AU
morning rise	-11728 Jun 20 j 17:23	20°♓08'34	
retrograde	-11728 Sep 19 j 16:15	23°♓30'40	
opposition	-11728 Dec 02 j 17:28	21°♓28'55	0°03'37
min. Earth dist.	-11728 Dec 03 j 12:06	21°♓26'55	17.30480 AU
direct	-11727 Feb 17 j 22:14	19°♓22'51	
evening set	-11727 May 24 j 19:45	22°♓53'42	
conjunction	-11727 Jun 09 j 19:47	23°♓54'20	0°06'25
minimum elong	-11727 Jun 09 j 19:48	23°♓54'20	0°06'19
behind sun begin	-11727 Jun 09 j 13:32	23°♓53'22	
behind sun end	-11727 Jun 10 j 02:03	23°♓55'18	
max. Earth dist.	-11727 Jun 09 j 01:21	23°♓51'24	19.31745 AU
morning rise	-11727 Jun 25 j 16:00	24°♓54'24	
retrograde	-11727 Sep 24 j 16:05	28°♓16'20	
opposition	-11727 Dec 07 j 21:26	26°♓14'36	0°10'22
min. Earth dist.	-11727 Dec 08 j 12:56	26°♓12'57	17.33191 AU
direct	-11726 Feb 23 j 04:39	24°♓08'47	
evening set	-11726 May 29 j 20:06	27°♓38'56	

Attention, astronomical year style is used: The year -11726 in astronomical counting style is the year 11727 BCE in historical counting style.

conjunction	-11726 Jun 14 j 18:51	28°♓39'19	0°12'23	
minimum elong	-11726 Jun 14 j 18:51	28°♓39'19	0°12'21	
behind sun begin	-11726 Jun 14 j 14:26	28°♓38'38		
behind sun end	-11726 Jun 14 j 23:16	28°♓40'00		
max. Earth dist.	-11726 Jun 14 j 02:58	28°♓36'48	19.34777 AU	
morning rise	-11726 Jun 30 j 13:59	29°♓39'10		
	-11726 Jul 06 j 05:32	0°♈		
retrograde	-11726 Sep 29 j 14:31	3°♈00'54		
opposition	-11726 Dec 13 j 01:30	0°♈59'12	0°17'01	
min. Earth dist.	-11726 Dec 13 j 15:09	0°♈57'45	17.36546 AU	
	-11725 Jan 06 j 04:47	30°℞♓		
direct	-11725 Feb 28 j 08:07	28°♓53'40		
	-11725 Apr 20 j 07:10	0°♈		
evening set	-11725 Jun 03 j 19:30	2°♈23'02		
conjunction	-11725 Jun 19 j 17:03	3°♈23'08	0°18'17	
minimum elong	-11725 Jun 19 j 17:03	3°♈23'08	0°18'16	
max. Earth dist.	-11725 Jun 19 j 04:05	3°♈21'05	19.38452 AU	
morning rise	-11725 Jul 05 j 11:16	4°♈22'46		
retrograde	-11725 Oct 04 j 14:29	7°♈44'15		
opposition	-11725 Dec 18 j 05:11	5°♈42'38	0°23'32	
min. Earth dist.	-11725 Dec 18 j 15:12	5°♈41'35	17.40512 AU	
direct	-11724 Mar 04 j 13:13	3°♈37'27		
evening set	-11724 Jun 07 j 18:15	7°♈05'56		
conjunction	-11724 Jun 23 j 14:41	8°♈05'46	0°24'02	
minimum elong	-11724 Jun 23 j 14:40	8°♈05'46	0°24'06	
max. Earth dist.	-11724 Jun 23 j 04:46	8°♈04'13	19.42713 AU	
morning rise	-11724 Jul 09 j 07:54	9°♈05'10		
retrograde	-11724 Oct 08 j 12:17	12°♈26'21		
opposition	-11724 Dec 22 j 08:38	10°♈24'52	0°29'51	
min. Earth dist.	-11724 Dec 22 j 17:01	10°♈23'59	17.45055 AU	
direct	-11723 Mar 09 j 14:48	8°♈20'03		
evening set	-11723 Jun 12 j 16:15	11°♈47'36		
conjunction	-11723 Jun 28 j 11:29	12°♈47'09	0°29'36	
minimum elong	-11723 Jun 28 j 11:28	12°♈47'09	0°29'43	
max. Earth dist.	-11723 Jun 28 j 04:02	12°♈45'59	19.47527 AU	
morning rise	-11723 Jul 14 j 03:56	13°♈46'18		
retrograde	-11723 Oct 13 j 12:27	17°♈07'10		
opposition	-11723 Dec 27 j 11:50	15°♈05'48	0°35'58	
min. Earth dist.	-11723 Dec 27 j 16:30	15°♈05'19	17.50104 AU	
direct	-11722 Mar 14 j 18:41	13°♈01'26		
evening set	-11722 Jun 17 j 13:16	16°♈27'56		
conjunction	-11722 Jul 03 j 07:30	17°♈27'11	0°34'58	
minimum elong	-11722 Jul 03 j 07:29	17°♈27'11	0°35'08	
max. Earth dist.	-11722 Jul 03 j 03:29	17°♈26'33	19.52799 AU	
morning rise	-11722 Jul 18 j 23:03	18°♈26'04		
retrograde	-11722 Oct 18 j 09:30	21°♈46'36		
opposition	-11721 Jan 01 j 14:55	19°♈45'23	0°41'48	
min. Earth dist.	-11721 Jan 01 j 18:00	19°♈45'04	17.55586 AU	
direct	-11721 Mar 19 j 19:20	17°♈41'27		
evening set	-11721 Jun 22 j 09:39	21°♈06'50		
conjunction	-11721 Jul 08 j 02:46	22°♈05'47	0°40'04	
minimum elong	-11721 Jul 08 j 02:46	22°♈05'47	0°40'18	
max. Earth dist.	-11721 Jul 08 j 00:43	22°♈05'28	19.58469 AU	
morning rise	-11721 Jul 23 j 17:45	23°♈04'25		
retrograde	-11721 Oct 23 j 08:54	26°♈24'33		
opposition	-11720 Jan 06 j 17:13	24°♈23'27	0°47'20	
min. Earth dist.	-11720 Jan 06 j 16:48	24°♈23'30	17.61422 AU	
direct	-11720 Mar 23 j 22:01	22°♈19'58		
evening set	-11720 Jun 26 j 05:03	25°♈44'11		
conjunction	-11720 Jul 11 j 21:22	26°♈42'49	0°44'53	
minimum elong	-11720 Jul 11 j 21:22	26°♈42'49	0°45'09	
max. Earth dist.	-11720 Jul 11 j 22:44	26°♈43'02	19.64440 AU	
morning rise	-11720 Jul 27 j 11:35	27°♈41'10		
	-11720 Sep 09 j 05:38	0°♉		
retrograde	-11720 Oct 27 j 04:54	1°♉00'53		
	-11720 Dec 16 j 15:45	30°℞♈		
opposition	-11719 Jan 10 j 19:17	28°♈59'54	0°52'31	
min. Earth dist.	-11719 Jan 10 j 17:22	29°♈00'06	17.67524 AU	
direct	-11719 Mar 28 j 21:53	26°♈56'51		
	-11719 Jun 25 j 12:24	0°♉		
evening set	-11719 Jun 30 j 23:40	0°♉19'50		
conjunction	-11719 Jul 16 j 14:58	1°♉18'09	0°49'23	
minimum elong	-11719 Jul 16 j 14:57	1°♉18'09	0°49'43	
max. Earth dist.	-11719 Jul 16 j 17:53	1°♉18'36	19.70653 AU	
morning rise	-11719 Aug 01 j 04:45	2°♉16'14		
retrograde	-11719 Nov 01 j 02:45	5°♉35'29		
opposition	-11718 Jan 15 j 20:41	3°♉34'36	0°57'19	
min. Earth dist.	-11718 Jan 15 j 15:29	3°♉35'08	17.73838 AU	
direct	-11718 Apr 02 j 23:31	1°♉31'58		
evening set	-11718 Jul 05 j 17:16	4°♉53'39		
conjunction	-11718 Jul 21 j 07:58	5°♉51'39	0°53'32	
minimum elong	-11718 Jul 21 j 07:57	5°♉51'39	0°53'54	
max. Earth dist.	-11718 Jul 21 j 14:21	5°♉52'39	19.77045 AU	
morning rise	-11718 Aug 05 j 21:09	6°♉49'28		
retrograde	-11718 Nov 05 j 21:37	10°♉08'13		
opposition	-11717 Jan 20 j 21:31	8°♉07'25	1°01'44	
min. Earth dist.	-11717 Jan 20 j 14:41	8°♉08'07	17.80308 AU	
direct	-11717 Apr 07 j 22:38	6°♉05'12		
evening set	-11717 Jul 10 j 09:59	9°♉25'32		
conjunction	-11717 Jul 25 j 23:52	10°♉23'13	0°57'20	
minimum elong	-11717 Jul 25 j 23:52	10°♉23'13	0°57'44	
max. Earth dist.	-11717 Jul 26 j 07:35	10°♉24'25	19.83583 AU	
morning rise	-11717 Aug 10 j 12:54	11°♉20'47		
retrograde	-11717 Nov 10 j 17:38	14°♉38'59		
opposition	-11716 Jan 25 j 21:27	12°♉38'13	1°05'43	
min. Earth dist.	-11716 Jan 25 j 11:42	12°♉39'14	17.86911 AU	
direct	-11716 Apr 11 j 22:21	10°♉36'23		
evening set	-11716 Jul 14 j 01:37	13°♉55'21		
conjunction	-11716 Jul 29 j 15:05	14°♉52'45	1°00'44	
minimum elong	-11716 Jul 29 j 15:04	14°♉52'45	1°01'11	
max. Earth dist.	-11716 Jul 30 j 02:14	14°♉54'28	19.90229 AU	
	-11716 Jul 31 j 13:55	15°♉		
morning rise	-11716 Aug 14 j 03:40	15°♉50'02		
retrograde	-11716 Nov 14 j 10:58	19°♉07'39		
opposition	-11715 Jan 29 j 20:33	17°♉06'57	1°09'16	
min. Earth dist.	-11715 Jan 29 j 08:58	17°♉08'08	17.93610 AU	
direct	-11715 Apr 16 j 20:31	15°♉05'30		
evening set	-11715 Jul 18 j 16:24	18°♉23'04		
conjunction	-11715 Aug 03 j 05:12	19°♉20'08	1°03'44	
minimum elong	-11715 Aug 03 j 05:11	19°♉20'08	1°04'13	
max. Earth dist.	-11715 Aug 03 j 17:43	19°♉22'04	19.96986 AU	
morning rise	-11715 Aug 18 j 17:48	20°♉17'11		
retrograde	-11715 Nov 19 j 04:40	23°♉34'13		
opposition	-11714 Feb 03 j 18:55	21°♉33'32	1°12'22	
min. Earth dist.	-11714 Feb 03 j 04:38	21°♉35'00	18.00435 AU	
direct	-11714 Apr 21 j 17:41	19°♉32'26		
evening set	-11714 Jul 23 j 05:57	22°♉48'35		
conjunction	-11714 Aug 07 j 18:32	23°♉45'23	1°06'21	
minimum elong	-11714 Aug 07 j 18:31	23°♉45'23	1°06'52	
max. Earth dist.	-11714 Aug 08 j 10:37	23°♉47'51	20.03857 AU	
morning rise	-11714 Aug 23 j 06:54	24°♉42'10		
retrograde	-11714 Nov 23 j 21:00	27°♉58'36		

Attention, astronomical year style is used: The year -11713 in astronomical counting style is the year 11714 BCE in historical counting style.

opposition	-11713 Feb 08 j 16:23	25°♉57'57	1°15'01
min. Earth dist.	-11713 Feb 07 j 23:54	25°♉59'39	18.07364 AU
direct	-11713 Apr 26 j 14:10	23°♉57'14	
evening set	-11713 Jul 27 j 18:51	27°♉12'00	
conjunction	-11713 Aug 12 j 06:58	28°♉08'30	1°08'33
minimum elong	-11713 Aug 12 j 06:57	28°♉08'30	1°09'05
max. Earth dist.	-11713 Aug 13 j 00:22	28°♉11'09	20.10840 AU
morning rise	-11713 Aug 27 j 19:31	29°♉05'03	
	-11713 Sep 12 j 17:13	0°♊	
retrograde	-11713 Nov 28 j 12:29	2°♊20'52	
opposition	-11712 Feb 13 j 12:46	0°♊20'17	1°17'13
min. Earth dist.	-11712 Feb 12 j 18:00	0°♊22'12	18.14418 AU
	-11712 Feb 21 j 20:23	30°℞♉	
direct	-11712 Apr 30 j 08:10	28°♉19'56	
	-11712 Jul 02 j 22:55	0°♊	
evening set	-11712 Jul 31 j 06:42	1°♊33'20	
conjunction	-11712 Aug 15 j 18:47	2°♊29'34	1°10'21
minimum elong	-11712 Aug 15 j 18:47	2°♊29'34	1°10'55
max. Earth dist.	-11712 Aug 16 j 15:31	2°♊32'43	20.17933 AU
morning rise	-11712 Aug 31 j 07:17	3°♊25'53	
retrograde	-11712 Dec 02 j 03:47	6°♊41'06	
min. Earth dist.	-11711 Feb 16 j 11:16	4°♊42'46	18.21552 AU
opposition	-11711 Feb 17 j 08:24	4°♊40'37	1°18'58
direct	-11711 May 05 j 02:22	2°♊40'40	
evening set	-11711 Aug 04 j 17:47	5°♊52'44	
conjunction	-11711 Aug 20 j 05:35	6°♊48'42	1°11'44
minimum elong	-11711 Aug 20 j 05:35	6°♊48'42	1°12'20
max. Earth dist.	-11711 Aug 21 j 03:32	6°♊52'02	20.25096 AU
morning rise	-11711 Sep 04 j 18:28	7°♊44'49	
retrograde	-11711 Dec 06 j 18:18	10°♊59'28	
min. Earth dist.	-11710 Feb 21 j 04:21	9°♊01'24	18.28747 AU
opposition	-11710 Feb 22 j 03:19	8°♊59'04	1°20'15
direct	-11710 May 09 j 18:01	6°♊59'32	
evening set	-11710 Aug 09 j 04:03	10°♊10'18	
conjunction	-11710 Aug 24 j 16:02	11°♊06'02	1°12'43
minimum elong	-11710 Aug 24 j 16:02	11°♊06'02	1°13'20
max. Earth dist.	-11710 Aug 25 j 16:57	11°♊09'48	20.32287 AU
morning rise	-11710 Sep 09 j 05:04	12°♊01'56	
retrograde	-11710 Dec 11 j 08:47	15°♊16'00	
opposition	-11709 Feb 26 j 21:11	13°♊15'45	1°21'04
min. Earth dist.	-11709 Feb 25 j 20:01	13°♊18'18	18.35921 AU
direct	-11709 May 14 j 09:48	11°♊16'39	
evening set	-11709 Aug 13 j 13:46	14°♊26'09	
conjunction	-11709 Aug 29 j 01:42	15°♊21'39	1°13'17
minimum elong	-11709 Aug 29 j 01:42	15°♊21'39	1°13'56
max. Earth dist.	-11709 Aug 30 j 03:28	15°♊25'31	20.39423 AU
morning rise	-11709 Sep 13 j 15:18	16°♊17'22	
retrograde	-11709 Dec 15 j 22:33	19°♊30'53	
opposition	-11708 Mar 02 j 14:22	17°♊30'45	1°21'27
min. Earth dist.	-11708 Mar 01 j 12:07	17°♊33'24	18.43014 AU
direct	-11708 May 17 j 23:41	15°♊32'03	
evening set	-11708 Aug 16 j 22:41	18°♊40'20	
conjunction	-11708 Sep 01 j 10:55	19°♊35'37	1°13'27
minimum elong	-11708 Sep 01 j 10:55	19°♊35'37	1°14'05
max. Earth dist.	-11708 Sep 02 j 15:07	19°♊39'50	20.46433 AU
morning rise	-11708 Sep 17 j 00:48	20°♊31'10	
retrograde	-11708 Dec 19 j 12:17	23°♊44'07	
min. Earth dist.	-11707 Mar 06 j 02:25	21°♊46'59	18.49929 AU
opposition	-11707 Mar 07 j 06:36	21°♊44'08	1°21'22
direct	-11707 May 22 j 13:53	19°♊45'50	
evening set	-11707 Aug 21 j 07:14	22°♊52'56	

conjunction	-11707 Sep 05 j 19:34	23°♊48'00	1°13'13
minimum elong	-11707 Sep 05 j 19:34	23°♊48'00	1°13'53
max. Earth dist.	-11707 Sep 07 j 00:15	23°♊52'17	20.53237 AU
morning rise	-11707 Sep 21 j 10:09	24°♊43'24	
retrograde	-11707 Dec 24 j 01:00	27°♊55'48	
opposition	-11706 Mar 11 j 22:15	25°♊55'55	1°20'52
min. Earth dist.	-11706 Mar 10 j 17:38	25°♊58'48	18.56621 AU
direct	-11706 May 27 j 02:09	23°♊57'59	
evening set	-11706 Aug 25 j 15:01	27°♊03'56	
conjunction	-11706 Sep 10 j 03:54	27°♊58'50	1°12'35
minimum elong	-11706 Sep 10 j 03:54	27°♊58'50	1°13'14
max. Earth dist.	-11706 Sep 11 j 10:28	28°♊03'22	20.59778 AU
morning rise	-11706 Sep 25 j 18:58	28°♊54'04	
	-11706 Oct 15 j 16:58	0°♋	
retrograde	-11706 Dec 28 j 14:13	2°♋05'56	
min. Earth dist.	-11705 Mar 15 j 06:41	0°♋09'12	18.62996 AU
opposition	-11705 Mar 16 j 12:55	0°♋06'09	1°19'55
	-11705 Mar 19 j 02:04	30°℞♊	
direct	-11705 May 31 j 15:20	28°♊08'31	
	-11705 Aug 07 j 11:12	0°♋	
evening set	-11705 Aug 29 j 22:34	1°♋13'22	
conjunction	-11705 Sep 14 j 11:44	2°♋08'06	1°11'34
minimum elong	-11705 Sep 14 j 11:44	2°♋08'06	1°12'14
max. Earth dist.	-11705 Sep 15 j 18:21	2°♋12'38	20.65970 AU
morning rise	-11705 Sep 30 j 03:38	3°♋03'13	
retrograde	-11704 Jan 02 j 01:10	6°♋14'32	
min. Earth dist.	-11704 Mar 18 j 20:45	4°♋17'50	18.69013 AU
opposition	-11704 Mar 20 j 02:46	4°♋14'49	1°18'34
direct	-11704 Jun 04 j 02:02	2°♋17'27	
evening set	-11704 Sep 02 j 05:24	5°♋21'15	
conjunction	-11704 Sep 17 j 19:15	6°♋15'50	1°10'12
minimum elong	-11704 Sep 17 j 19:15	6°♋15'50	1°10'51
max. Earth dist.	-11704 Sep 19 j 03:16	6°♋20'33	20.71791 AU
morning rise	-11704 Oct 03 j 11:46	7°♋10'50	
retrograde	-11703 Jan 05 j 13:34	10°♋21'36	
min. Earth dist.	-11703 Mar 23 j 08:22	8°♋25'04	18.74627 AU
opposition	-11703 Mar 24 j 15:48	8°♋21'55	1°16'49
direct	-11703 Jun 08 j 14:01	6°♋24'47	
evening set	-11703 Sep 06 j 11:44	9°♋27'34	
conjunction	-11703 Sep 22 j 02:02	10°♋22'01	1°08'28
minimum elong	-11703 Sep 22 j 02:03	10°♋22'01	1°09'07
max. Earth dist.	-11703 Sep 23 j 10:03	10°♋26'43	20.77205 AU
morning rise	-11703 Oct 07 j 19:34	11°♋16'55	
retrograde	-11702 Jan 09 j 22:54	14°♋27'11	
min. Earth dist.	-11702 Mar 27 j 21:18	12°♋30'35	18.79849 AU
opposition	-11702 Mar 29 j 04:13	12°♋27'29	1°14'41
direct	-11702 Jun 12 j 23:04	10°♋30'33	
evening set	-11702 Sep 10 j 17:34	13°♋32'21	
conjunction	-11702 Sep 26 j 08:44	14°♋26'42	1°06'24
minimum elong	-11702 Sep 26 j 08:44	14°♋26'42	1°07'03
max. Earth dist.	-11702 Sep 27 j 17:57	14°♋31'33	20.82234 AU
morning rise	-11702 Oct 12 j 03:01	15°♋21'30	
retrograde	-11701 Jan 14 j 09:58	18°♋31'14	
min. Earth dist.	-11701 Apr 01 j 07:17	16°♋34'45	18.84684 AU
opposition	-11701 Apr 02 j 15:26	16°♋31'32	1°12'12
direct	-11701 Jun 17 j 09:47	14°♋34'45	
evening set	-11701 Sep 14 j 23:06	17°♋35'40	
conjunction	-11701 Sep 30 j 14:52	18°♋29'54	1°04'01
minimum elong	-11701 Sep 30 j 14:52	18°♋29'54	1°04'39
max. Earth dist.	-11701 Oct 01 j 23:57	18°♋34'43	20.86886 AU
morning rise	-11701 Oct 16 j 10:14	19°♋24'38	

Attention, astronomical year style is used: The year -11700 in astronomical counting style is the year 11701 BCE in historical counting style.

retrograde	-11700 Jan 18 j 18:20	22°♋33'54	
min. Earth dist.	-11700 Apr 04 j 18:40	20°♋37'20	18.89171 AU
opposition	-11700 Apr 06 j 02:07	20°♋34'10	1°09'23
direct	-11700 Jun 20 j 16:50	18°♋37'31	
evening set	-11700 Sep 18 j 04:00	21°♋37'37	
conjunction	-11700 Oct 03 j 20:41	22°♋31'47	1°01'20
minimum elong	-11700 Oct 03 j 20:41	22°♋31'47	1°01'58
max. Earth dist.	-11700 Oct 05 j 06:52	22°♋36'44	20.91209 AU
morning rise	-11700 Oct 19 j 16:53	23°♋26'27	
retrograde	-11699 Jan 22 j 04:04	26°♋35'16	
min. Earth dist.	-11699 Apr 09 j 03:10	24°♋38'49	18.93331 AU
opposition	-11699 Apr 10 j 11:56	24°♋35'32	1°06'14
direct	-11699 Jun 25 j 02:18	22°♋39'01	
evening set	-11699 Sep 22 j 08:52	25°♋38'23	
conjunction	-11699 Oct 08 j 02:15	26°♋32'29	0°58'22
minimum elong	-11699 Oct 08 j 02:15	26°♋32'29	0°58'58
max. Earth dist.	-11699 Oct 09 j 12:12	26°♋37'23	20.95214 AU
morning rise	-11699 Oct 23 j 23:35	27°♋27'08	
	-11699 Dec 18 j 21:22	0°♌	
retrograde	-11698 Jan 26 j 12:18	0°♌35'33	
	-11698 Mar 07 j 00:25	30°℞♋	
opposition	-11698 Apr 14 j 21:10	28°♋35'49	1°02'47
min. Earth dist.	-11698 Apr 13 j 13:17	28°♋39'01	18.97191 AU
direct	-11698 Jun 29 j 07:48	26°♋39'27	
evening set	-11698 Sep 26 j 13:18	29°♋38'09	
	-11698 Oct 02 j 23:28	0°♌	
conjunction	-11698 Oct 12 j 07:46	0°♌32'13	0°55'08
minimum elong	-11698 Oct 12 j 07:46	0°♌32'13	0°55'44
max. Earth dist.	-11698 Oct 13 j 18:27	0°♌37'13	20.98923 AU
morning rise	-11698 Oct 28 j 06:04	1°♌26'50	
retrograde	-11697 Jan 30 j 21:24	4°♌34'54	
min. Earth dist.	-11697 Apr 17 j 20:44	2°♌38'31	19.00729 AU
opposition	-11697 Apr 19 j 05:38	2°♌35'13	0°59'02
direct	-11697 Jul 03 j 15:37	0°♌38'59	
evening set	-11697 Sep 30 j 17:50	3°♌37'08	
conjunction	-11697 Oct 16 j 13:05	4°♌31'10	0°51'38
minimum elong	-11697 Oct 16 j 13:06	4°♌31'10	0°52'12
max. Earth dist.	-11697 Oct 17 j 23:12	4°♌36'04	21.02291 AU
morning rise	-11697 Nov 01 j 12:34	5°♌25'47	
retrograde	-11696 Feb 04 j 05:16	8°♌33'33	
min. Earth dist.	-11696 Apr 21 j 05:58	6°♌37'05	19.03924 AU
opposition	-11696 Apr 22 j 13:37	6°♌33'55	0°55'02
direct	-11696 Jul 06 j 20:19	4°♌37'50	
evening set	-11696 Oct 03 j 22:04	7°♌35'29	
conjunction	-11696 Oct 19 j 18:28	8°♌29'32	0°47'54
minimum elong	-11696 Oct 19 j 18:28	8°♌29'32	0°48'27
max. Earth dist.	-11696 Oct 21 j 04:56	8°♌34'29	21.05311 AU
morning rise	-11696 Nov 04 j 18:56	9°♌24'10	
retrograde	-11695 Feb 07 j 14:05	12°♌31'40	
opposition	-11695 Apr 26 j 21:04	10°♌32'06	0°50'46
min. Earth dist.	-11695 Apr 25 j 12:46	10°♌35'20	19.06739 AU
direct	-11695 Jul 11 j 02:31	8°♌36'08	
evening set	-11695 Oct 08 j 02:25	11°♌33'24	
conjunction	-11695 Oct 23 j 23:43	12°♌27'28	0°43'57
minimum elong	-11695 Oct 23 j 23:43	12°♌27'28	0°44'28
max. Earth dist.	-11695 Oct 25 j 09:19	12°♌32'16	21.07920 AU
morning rise	-11695 Nov 09 j 01:27	13°♌22'07	
	-11695 Dec 11 j 02:59	15°♌	
retrograde	-11694 Feb 11 j 21:26	16°♌29'24	
	-11694 Apr 18 j 13:03	15°℞♌	
min. Earth dist.	-11694 Apr 29 j 21:42	14°♌32'58	19.09127 AU
opposition	-11694 May 01 j 04:16	14°♌29'54	0°46'16
direct	-11694 Jul 15 j 06:56	12°♌34'03	
	-11694 Oct 02 j 19:28	15°♌	
evening set	-11694 Oct 12 j 06:54	15°♌31'00	
conjunction	-11694 Oct 28 j 05:24	16°♌25'06	0°39'47
minimum elong	-11694 Oct 28 j 05:24	16°♌25'06	0°40'15
max. Earth dist.	-11694 Oct 29 j 14:48	16°♌29'51	21.10082 AU
morning rise	-11694 Nov 13 j 08:09	17°♌19'47	
retrograde	-11693 Feb 16 j 06:16	20°♌26'53	
min. Earth dist.	-11693 May 04 j 04:07	18°♌30'30	19.11030 AU
opposition	-11693 May 05 j 10:45	18°♌27'26	0°41'33
direct	-11693 Jul 19 j 12:25	16°♌31'39	
evening set	-11693 Oct 16 j 11:40	19°♌28'22	
conjunction	-11693 Nov 01 j 11:06	20°♌22'31	0°35'26
minimum elong	-11693 Nov 01 j 11:06	20°♌22'31	0°35'53
max. Earth dist.	-11693 Nov 02 j 19:04	20°♌27'04	21.11723 AU
morning rise	-11693 Nov 17 j 15:05	21°♌17'16	
retrograde	-11692 Feb 20 j 12:57	24°♌24'13	
opposition	-11692 May 08 j 17:11	22°♌24'48	0°36'38
min. Earth dist.	-11692 May 07 j 12:46	22°♌27'39	19.12399 AU
direct	-11692 Jul 22 j 16:09	20°♌29'03	
evening set	-11692 Oct 19 j 16:19	23°♌25'35	
conjunction	-11692 Nov 04 j 16:58	24°♌19'48	0°30'55
minimum elong	-11692 Nov 04 j 16:58	24°♌19'48	0°31'19
max. Earth dist.	-11692 Nov 06 j 00:16	24°♌24'15	21.12817 AU
morning rise	-11692 Nov 20 j 21:58	25°♌14'37	
retrograde	-11691 Feb 23 j 21:53	28°♌21'27	
opposition	-11691 May 12 j 23:13	26°♌22'01	0°31'33
min. Earth dist.	-11691 May 11 j 19:02	26°♌24'51	19.13191 AU
direct	-11691 Jul 26 j 21:42	24°♌26'16	
evening set	-11691 Oct 23 j 21:27	27°♌22'41	
conjunction	-11691 Nov 08 j 23:07	28°♌16'59	0°26'16
minimum elong	-11691 Nov 08 j 23:07	28°♌16'59	0°26'39
max. Earth dist.	-11691 Nov 10 j 04:32	28°♌21'09	21.13313 AU
morning rise	-11691 Nov 25 j 05:21	29°♌11'53	
	-11691 Dec 10 j 05:05	0°♍	
retrograde	-11690 Feb 28 j 03:53	2°♍18'36	
min. Earth dist.	-11690 May 16 j 03:21	0°♍21'44	19.13388 AU
opposition	-11690 May 17 j 05:01	0°♍19'09	0°26'20
	-11690 May 25 j 03:26	30°℞♌	
direct	-11690 Jul 31 j 00:55	28°♌23'18	
	-11690 Oct 02 j 08:25	0°♍	
evening set	-11690 Oct 28 j 02:39	1°♍19'41	
conjunction	-11690 Nov 13 j 05:37	2°♍14'04	0°21'29
minimum elong	-11690 Nov 13 j 05:37	2°♍14'04	0°21'49
max. Earth dist.	-11690 Nov 14 j 09:55	2°♍18'05	21.13227 AU
morning rise	-11690 Nov 29 j 12:55	3°♍09'04	
retrograde	-11689 Mar 04 j 12:45	6°♍15'42	
min. Earth dist.	-11689 May 20 j 09:16	4°♍18'43	19.12998 AU
opposition	-11689 May 21 j 10:25	4°♍16'10	0°21'00
direct	-11689 Aug 04 j 06:23	2°♍20'13	
evening set	-11689 Nov 01 j 08:10	5°♍16'37	
conjunction	-11689 Nov 17 j 12:07	6°♍11'06	0°16'37
minimum elong	-11689 Nov 17 j 12:07	6°♍11'06	0°16'55
max. Earth dist.	-11689 Nov 18 j 14:25	6°♍14'50	21.12556 AU
morning rise	-11689 Dec 03 j 20:34	7°♍06'12	
retrograde	-11688 Mar 07 j 18:22	10°♍12'47	
opposition	-11688 May 24 j 15:39	8°♍13'09	0°15'34
min. Earth dist.	-11688 May 23 j 17:03	8°♍15'27	19.12059 AU
direct	-11688 Aug 07 j 09:31	6°♍17'03	
evening set	-11688 Nov 04 j 13:48	9°♍13'32	

Attention, astronomical year style is used: The year -11688 in astronomical counting style is the year 11689 BCE in historical counting style.

conjunction	-11688 Nov 20 j 18:59	10°♑08'08	0°11'40
minimum elong	-11688 Nov 20 j 18:59	10°♑08'09	0°11'56
behind sun begin	-11688 Nov 20 j 14:25	10°♑07'31	
behind sun end	-11688 Nov 20 j 23:33	10°♑08'46	
max. Earth dist.	-11688 Nov 21 j 20:10	10°♑11'42	21.11382 AU
morning rise	-11688 Dec 07 j 04:27	11°♑03'21	
retrograde	-11687 Mar 12 j 03:02	14°♑09'55	
opposition	-11687 May 28 j 20:33	12°♑10'11	0°10'03
min. Earth dist.	-11687 May 27 j 22:26	12°♑12'25	19.10640 AU
direct	-11687 Aug 11 j 14:35	10°♑13'52	
evening set	-11687 Nov 08 j 19:51	13°♑10'32	
conjunction	-11687 Nov 25 j 02:05	14°♑05'17	0°06'42
minimum elong	-11687 Nov 25 j 02:04	14°♑05'17	0°06'54
behind sun begin	-11687 Nov 24 j 19:52	14°♑04'26	
behind sun end	-11687 Nov 25 j 08:16	14°♑06'08	
max. Earth dist.	-11687 Nov 26 j 01:17	14°♑08'34	21.09737 AU
morning rise	-11687 Dec 11 j 12:41	15°♑00'38	
retrograde	-11686 Mar 16 j 09:17	18°♑07'13	
min. Earth dist.	-11686 Jun 01 j 05:53	16°♑09'22	19.08782 AU
opposition	-11686 Jun 02 j 01:29	16°♑07'22	0°04'30
direct	-11686 Aug 15 j 17:33	14°♑10'52	
evening set	-11686 Nov 13 j 02:18	17°♑07'48	
conjunction	-11686 Nov 29 j 09:43	18°♑02'42	0°01'39
minimum elong	-11686 Nov 29 j 09:43	18°♑02'42	0°01'50
behind sun begin	-11686 Nov 29 j 03:02	18°♑01'47	
behind sun end	-11686 Nov 29 j 16:24	18°♑03'37	
max. Earth dist.	-11686 Nov 30 j 07:38	18°♑05'47	21.07688 AU
morning rise	-11686 Dec 15 j 21:15	18°♑58'10	
retrograde	-11685 Mar 20 j 18:08	22°♑04'50	
desc. node	-11685 Mar 28 j 20:45	22°♑03'14	
min. Earth dist.	-11685 Jun 05 j 11:01	20°♑06'50	19.06533 AU
opposition	-11685 Jun 06 j 06:03	20°♑04'54	-0°01'05
direct	-11685 Aug 19 j 22:35	18°♑08'11	
evening set	-11685 Nov 17 j 09:16	21°♑05'29	
conjunction	-11685 Dec 03 j 17:39	22°♑00'32	-0°03'32
minimum elong	-11685 Dec 03 j 17:39	22°♑00'32	0°03'25
behind sun begin	-11685 Dec 03 j 11:00	21°♑59'38	
behind sun end	-11685 Dec 04 j 00:18	22°♑01'27	
max. Earth dist.	-11685 Dec 04 j 13:31	22°♑03'21	21.05251 AU
morning rise	-11685 Dec 20 j 06:11	22°♑56'11	
retrograde	-11684 Mar 24 j 01:04	26°♑02'58	
opposition	-11684 Jun 09 j 10:56	24°♑02'57	-0°06'40
min. Earth dist.	-11684 Jun 08 j 18:23	24°♑04'39	19.03919 AU
direct	-11684 Aug 23 j 01:18	22°♑06'04	
evening set	-11684 Nov 20 j 16:26	25°♑03'47	
conjunction	-11684 Dec 07 j 02:00	25°♑59'02	-0°08'34
minimum elong	-11684 Dec 07 j 02:00	25°♑59'02	0°08'28
behind sun begin	-11684 Dec 06 j 20:09	25°♑58'13	
behind sun end	-11684 Dec 07 j 07:51	25°♑59'50	
max. Earth dist.	-11684 Dec 07 j 20:28	26°♑01'38	21.02472 AU
morning rise	-11684 Dec 23 j 15:25	26°♑54'49	
	-11683 Mar 19 j 21:19	0°♎	
retrograde	-11683 Mar 28 j 10:42	0°♎01'48	
	-11683 Apr 06 j 01:27	30°℞♑	
opposition	-11683 Jun 13 j 15:43	28°♑01'44	-0°12'15
min. Earth dist.	-11683 Jun 12 j 23:51	28°♑03'22	19.00957 AU
direct	-11683 Aug 27 j 06:38	26°♑04'39	
evening set	-11683 Nov 25 j 00:32	29°♑02'55	
conjunction	-11683 Dec 11 j 11:03	29°♑58'21	-0°13'35
minimum elong	-11683 Dec 11 j 11:03	29°♑58'21	0°13'33
behind sun begin	-11683 Dec 11 j 07:27	29°♑57'51	
behind sun end	-11683 Dec 11 j 14:39	29°♑58'51	

	-11683 Dec 11 j 22:47	0°♎	
max. Earth dist.	-11683 Dec 12 j 03:18	0°♎00'39	20.99331 AU
morning rise	-11683 Dec 28 j 01:24	0°♎54'20	
retrograde	-11682 Apr 01 j 18:19	4°♎01'32	
opposition	-11682 Jun 17 j 20:42	2°♎01'27	-0°17'48
min. Earth dist.	-11682 Jun 17 j 07:38	2°♎02'48	18.97637 AU
direct	-11682 Aug 31 j 09:45	0°♎04'10	
evening set	-11682 Nov 29 j 09:15	3°♎03'03	
conjunction	-11682 Dec 15 j 20:51	3°♎58'42	-0°18'34
minimum elong	-11682 Dec 15 j 20:50	3°♎58'42	0°18'34
max. Earth dist.	-11682 Dec 16 j 11:14	4°♎00'44	20.95841 AU
morning rise	-11681 Jan 01 j 11:59	4°♎54'52	
retrograde	-11681 Apr 06 j 04:53	8°♎02'22	
opposition	-11681 Jun 22 j 01:48	6°♎02'15	-0°23'18
min. Earth dist.	-11681 Jun 21 j 13:47	6°♎03'29	18.93951 AU
direct	-11681 Sep 04 j 15:34	4°♎04'45	
evening set	-11681 Dec 03 j 18:40	7°♎04'22	
conjunction	-11681 Dec 20 j 07:06	8°♎00'14	-0°23'29
minimum elong	-11681 Dec 20 j 07:06	8°♎00'14	0°23'33
max. Earth dist.	-11681 Dec 20 j 19:04	8°♎01'55	20.91954 AU
morning rise	-11680 Jan 05 j 23:00	8°♎56'35	
retrograde	-11680 Apr 09 j 13:27	12°♎04'25	
opposition	-11680 Jun 25 j 07:19	10°♎04'18	-0°28'42
min. Earth dist.	-11680 Jun 24 j 22:19	10°♎05'14	18.89867 AU
direct	-11680 Sep 07 j 19:42	8°♎06'35	
evening set	-11680 Dec 07 j 04:53	11°♎06'59	
conjunction	-11680 Dec 23 j 18:18	12°♎03'05	-0°28'19
minimum elong	-11680 Dec 23 j 18:18	12°♎03'05	0°28'26
max. Earth dist.	-11680 Dec 24 j 03:55	12°♎04'26	20.87674 AU
morning rise	-11679 Jan 09 j 10:53	12°♎59'38	
retrograde	-11679 Apr 14 j 00:47	16°♎07'51	
opposition	-11679 Jun 29 j 12:58	14°♎07'41	-0°34'00
min. Earth dist.	-11679 Jun 29 j 05:22	14°♎08'28	18.85369 AU
direct	-11679 Sep 12 j 02:06	12°♎09'43	
evening set	-11679 Dec 11 j 16:02	15°♎10'58	
conjunction	-11679 Dec 28 j 06:18	16°♎07'19	-0°33'02
minimum elong	-11679 Dec 28 j 06:17	16°♎07'19	0°33'11
max. Earth dist.	-11679 Dec 28 j 13:05	16°♎08'17	20.82946 AU
morning rise	-11678 Jan 13 j 23:30	17°♎04'06	
retrograde	-11678 Apr 18 j 10:47	20°♎12'41	
opposition	-11678 Jul 03 j 19:14	18°♎12'28	-0°39'09
min. Earth dist.	-11678 Jul 03 j 14:54	18°♎12'55	18.80416 AU
direct	-11678 Sep 16 j 07:39	16°♎14'12	
evening set	-11678 Dec 16 j 03:58	19°♎16'23	
conjunction	-11677 Jan 01 j 19:05	20°♎12'58	-0°37'36
minimum elong	-11677 Jan 01 j 19:05	20°♎12'58	0°37'48
max. Earth dist.	-11677 Jan 01 j 23:01	20°♎13'32	20.77772 AU
morning rise	-11677 Jan 18 j 12:51	21°♎09'58	
retrograde	-11677 Apr 22 j 22:42	24°♎18'58	
opposition	-11677 Jul 08 j 01:41	22°♎18'40	-0°44'07
min. Earth dist.	-11677 Jul 07 j 22:54	22°♎18'57	18.75015 AU
direct	-11677 Sep 20 j 15:10	20°♎20'04	
evening set	-11677 Dec 20 j 16:43	23°♎23'13	
conjunction	-11676 Jan 06 j 08:33	24°♎20'04	-0°42'00
minimum elong	-11676 Jan 06 j 08:33	24°♎20'03	0°42'14
max. Earth dist.	-11676 Jan 06 j 09:41	24°♎20'13	20.72148 AU
morning rise	-11676 Jan 23 j 02:46	25°♎17'17	
retrograde	-11676 Apr 26 j 09:35	28°♎26'41	
opposition	-11676 Jul 11 j 08:44	26°♎26'17	-0°48'54
min. Earth dist.	-11676 Jul 11 j 09:07	26°♎26'15	18.69192 AU
direct	-11676 Sep 23 j 21:57	24°♎27'19	

Attention, astronomical year style is used: The year -11676 in astronomical counting style is the year 11677 BCE in historical counting style.

evening set	-11676 Dec	24 j 06:02	27°♎31'27	
conjunction	-11675 Jan	09 j 22:38	28°♎28'34	-0°46'12
minimum elong	-11675 Jan	09 j 22:38	28°♎28'34	0°46'29
max. Earth dist.	-11675 Jan	09 j 20:51	28°♎28'19	20.66146 AU
morning rise	-11675 Jan	26 j 17:22	29°♎26'01	
	-11675 Feb	06 j 00:43	0°♏	
retrograde	-11675 Apr	30 j 22:22	2°♏35'52	
opposition	-11675 Jul	15 j 16:03	0°♏35'19	-0°53'26
min. Earth dist.	-11675 Jul	15 j 17:58	0°♏35'07	18.63013 AU
	-11675 Jul	29 j 21:27	30°℞♎	
direct	-11675 Sep	28 j 06:54	28°♎35'55	
	-11675 Nov	25 j 22:03	0°♏	
evening set	-11675 Dec	28 j 20:24	1°♏41'08	
conjunction	-11674 Jan	14 j 13:39	2°♏38'31	-0°50'11
minimum elong	-11674 Jan	14 j 13:39	2°♏38'31	0°50'30
max. Earth dist.	-11674 Jan	14 j 09:21	2°♏37'54	20.59802 AU
morning rise	-11674 Jan	31 j 08:39	3°♏36'12	
retrograde	-11674 May	05 j 09:46	6°♏46'29	
opposition	-11674 Jul	19 j 23:51	4°♏45'48	-0°57'44
min. Earth dist.	-11674 Jul	20 j 04:46	4°♏45'17	18.56537 AU
direct	-11674 Oct	02 j 14:52	2°♏45'58	
evening set	-11673 Jan	02 j 11:32	5°♏52'18	
conjunction	-11673 Jan	19 j 05:20	6°♏49'58	-0°53'55
minimum elong	-11673 Jan	19 j 05:20	6°♏49'58	0°54'16
max. Earth dist.	-11673 Jan	18 j 22:06	6°♏48'55	20.53217 AU
morning rise	-11673 Feb	05 j 00:40	7°♏47'52	
retrograde	-11673 May	09 j 23:30	10°♏58'39	
opposition	-11673 Jul	24 j 08:09	8°♏57'48	-1°01'45
min. Earth dist.	-11673 Jul	24 j 14:27	8°♏57'08	18.49859 AU
direct	-11673 Oct	07 j 01:20	6°♏57'31	
evening set	-11672 Jan	07 j 03:18	10°♏05'02	
conjunction	-11672 Jan	23 j 21:37	11°♏02'58	-0°57'22
minimum elong	-11672 Jan	23 j 21:37	11°♏02'58	0°57'47
max. Earth dist.	-11672 Jan	23 j 12:23	11°♏01'38	20.46444 AU
morning rise	-11672 Feb	09 j 17:01	12°♏01'06	
	-11672 Apr	21 j 12:56	15°♏	
retrograde	-11672 May	13 j 11:46	15°♏12'23	
	-11672 Jun	04 j 11:45	15°℞♏	
opposition	-11672 Jul	27 j 17:07	13°♏11'24	-1°05'27
min. Earth dist.	-11672 Jul	28 j 02:03	13°♏10'27	18.43031 AU
direct	-11672 Oct	10 j 10:20	11°♏10'42	
evening set	-11671 Jan	10 j 20:03	14°♏19'25	
	-11671 Jan	22 j 13:48	15°♏	
conjunction	-11671 Jan	27 j 14:45	15°♏17'38	-1°00'33
minimum elong	-11671 Jan	27 j 14:45	15°♏17'38	1°00'59
max. Earth dist.	-11671 Jan	27 j 02:35	15°♏15'52	20.39573 AU
morning rise	-11671 Feb	13 j 10:22	16°♏16'00	
retrograde	-11671 May	18 j 02:35	19°♏27'50	
opposition	-11671 Aug	01 j 02:29	17°♏26'42	-1°08'50
min. Earth dist.	-11671 Aug	01 j 12:47	17°♏25'37	18.36133 AU
direct	-11671 Oct	14 j 22:38	15°♏25'34	
evening set	-11670 Jan	15 j 13:44	18°♏35'35	
conjunction	-11670 Feb	01 j 08:53	19°♏34'05	-1°03'25
minimum elong	-11670 Feb	01 j 08:52	19°♏34'05	1°03'54
max. Earth dist.	-11670 Jan	31 j 18:59	19°♏32'03	20.32637 AU
morning rise	-11670 Feb	18 j 04:22	20°♏32'41	
retrograde	-11670 May	22 j 15:52	23°♏45'04	
opposition	-11670 Aug	05 j 12:48	21°♏43'51	-1°11'52
min. Earth dist.	-11670 Aug	06 j 01:32	21°♏42'29	18.29188 AU
direct	-11670 Oct	19 j 09:05	19°♏42'18	
evening set	-11669 Jan	20 j 08:18	22°♏53'39	

max. Earth dist.	-11669 Feb	05 j 10:42	23°♏49'56	20.25690 AU
conjunction	-11669 Feb	06 j 03:36	23°♏52'25	-1°05'58
minimum elong	-11669 Feb	06 j 03:36	23°♏52'25	1°06'28
morning rise	-11669 Feb	22 j 23:08	24°♏51'15	
retrograde	-11669 May	27 j 08:02	28°♏04'13	
opposition	-11669 Aug	09 j 23:42	26°♏02'56	-1°14'31
min. Earth dist.	-11669 Aug	10 j 13:49	26°♏01'25	18.22252 AU
direct	-11669 Oct	23 j 23:15	24°♏00'59	
evening set	-11668 Jan	25 j 03:43	27°♏13'42	
conjunction	-11668 Feb	10 j 23:21	28°♏12'46	-1°08'09
minimum elong	-11668 Feb	10 j 23:20	28°♏12'45	1°08'41
max. Earth dist.	-11668 Feb	10 j 05:05	28°♏10'04	20.18749 AU
morning rise	-11668 Feb	27 j 18:33	29°♏11'49	
	-11668 Mar	13 j 03:29	0°♐	
retrograde	-11668 May	30 j 22:42	2°♐25'24	
opposition	-11668 Aug	13 j 11:27	0°♐24'04	-1°16'46
min. Earth dist.	-11668 Aug	14 j 03:50	0°♐22'18	18.15326 AU
	-11668 Aug	22 j 21:10	30°℞♏	
direct	-11668 Oct	27 j 11:47	28°♏21'45	
	-11668 Dec	30 j 00:58	0°♐	
evening set	-11667 Jan	29 j 00:10	1°♐35'52	
conjunction	-11667 Feb	14 j 19:48	2°♐35'12	-1°09'57
minimum elong	-11667 Feb	14 j 19:47	2°♐35'12	1°10'32
max. Earth dist.	-11667 Feb	13 j 22:22	2°♐32'01	20.11839 AU
morning rise	-11667 Mar	03 j 14:58	3°♐34'29	
retrograde	-11667 Jun	04 j 16:06	6°♐48'42	
opposition	-11667 Aug	18 j 00:02	4°♐47'19	-1°18'35
min. Earth dist.	-11667 Aug	18 j 18:02	4°♐45'23	18.08429 AU
direct	-11667 Nov	01 j 03:19	2°♐44'38	
evening set	-11666 Feb	02 j 21:36	6°♐00'11	
conjunction	-11666 Feb	19 j 17:23	6°♐59'48	-1°11'22
minimum elong	-11666 Feb	19 j 17:23	6°♐59'48	1°11'57
max. Earth dist.	-11666 Feb	18 j 18:43	6°♐56'25	20.04931 AU
morning rise	-11666 Mar	08 j 12:02	7°♐59'18	
retrograde	-11666 Jun	09 j 08:55	11°♐14'08	
opposition	-11666 Aug	22 j 13:29	9°♐12'45	-1°19'57
min. Earth dist.	-11666 Aug	23 j 09:40	9°♐10'34	18.01529 AU
direct	-11666 Nov	05 j 18:29	7°♐09'42	
evening set	-11665 Feb	07 j 20:05	10°♐26'41	
conjunction	-11665 Feb	24 j 15:37	11°♐26'33	-1°12'21
minimum elong	-11665 Feb	24 j 15:37	11°♐26'33	1°12'58
max. Earth dist.	-11665 Feb	23 j 13:35	11°♐22'39	19.98035 AU
morning rise	-11665 Mar	13 j 10:01	12°♐26'17	
retrograde	-11665 Jun	14 j 03:21	15°♐41'45	
opposition	-11665 Aug	27 j 03:58	13°♐40'18	-1°20'50
min. Earth dist.	-11665 Aug	28 j 01:52	13°♐37'57	17.94650 AU
direct	-11665 Nov	10 j 11:32	11°♐36'53	
evening set	-11664 Feb	12 j 19:06	14°♐55'16	
max. Earth dist.	-11664 Feb	28 j 11:40	15°♐51'20	19.91148 AU
conjunction	-11664 Feb	29 j 14:40	15°♐55'24	-1°12'54
minimum elong	-11664 Feb	29 j 14:40	15°♐55'24	1°13'32
morning rise	-11664 Mar	17 j 08:25	16°♐55'19	
retrograde	-11664 Jun	17 j 22:08	20°♐11'24	
opposition	-11664 Aug	30 j 19:20	18°♐09'55	-1°21'15
min. Earth dist.	-11664 Aug	31 j 19:00	18°♐07'21	17.87776 AU
direct	-11664 Nov	14 j 05:13	16°♐06'06	
evening set	-11663 Feb	16 j 19:16	19°♐25'53	
max. Earth dist.	-11663 Mar	04 j 08:10	20°♐21'41	19.84295 AU
conjunction	-11663 Mar	05 j 14:27	20°♐26'15	-1°13'01
minimum elong	-11663 Mar	05 j 14:27	20°♐26'15	1°13'39

Attention, astronomical year style is used: The year -11663 in astronomical counting style is the year 11664 BCE in historical counting style.

morning rise	-11663 Mar 22 j 07:47	21°♐26'23	
retrograde	-11663 Jun 22 j 17:24	24°♐43'03	
opposition	-11663 Sep 04 j 11:26	22°♐41'29	-1°21'09
min. Earth dist.	-11663 Sep 05 j 12:58	22°♐38'43	17.80966 AU
direct	-11663 Nov 19 j 00:02	20°♐37'15	
evening set	-11662 Feb 21 j 20:04	23°♐58'24	
max. Earth dist.	-11662 Mar 09 j 08:08	24°♐54'19	19.77526 AU
conjunction	-11662 Mar 10 j 15:06	24°♐59'00	-1°12'40
minimum elong	-11662 Mar 10 j 15:06	24°♐59'00	1°13'19
morning rise	-11662 Mar 27 j 07:38	25°♐59'19	
retrograde	-11662 Jun 27 j 13:45	29°♐16'32	
opposition	-11662 Sep 09 j 04:34	27°♐14'54	-1°20'32
min. Earth dist.	-11662 Sep 10 j 07:18	27°♐11'59	17.74262 AU
direct	-11662 Nov 23 j 19:58	25°♐10'16	
evening set	-11661 Feb 26 j 21:31	28°♐32'43	
max. Earth dist.	-11661 Mar 14 j 06:24	29°♐28'25	19.70909 AU
conjunction	-11661 Mar 15 j 15:58	29°♐33'32	-1°11'51
minimum elong	-11661 Mar 15 j 15:58	29°♐33'32	1°12'30
	-11661 Mar 22 j 21:47	0°♑	
morning rise	-11661 Apr 01 j 07:53	0°♑34'01	
retrograde	-11661 Jul 02 j 10:02	3°♑51'48	
opposition	-11661 Sep 13 j 22:31	1°♑50'03	-1°19'25
min. Earth dist.	-11661 Sep 15 j 02:52	1°♑46'58	17.67765 AU
	-11661 Nov 04 j 16:01	30°℞♐	
direct	-11661 Nov 28 j 16:21	29°♐45'00	
	-11661 Dec 22 j 12:30	0°♑	
evening set	-11660 Mar 02 j 23:25	3°♑08'45	
max. Earth dist.	-11660 Mar 18 j 07:49	4°♑04'36	19.64538 AU
conjunction	-11660 Mar 19 j 17:32	4°♑09'45	-1°10'34
minimum elong	-11660 Mar 19 j 17:32	4°♑09'45	1°11'15
morning rise	-11660 Apr 05 j 08:36	5°♑10'24	
retrograde	-11660 Jul 06 j 07:37	8°♑28'41	
opposition	-11660 Sep 17 j 17:09	6°♑26'51	-1°17'46
min. Earth dist.	-11660 Sep 18 j 21:59	6°♑23'42	17.61542 AU
direct	-11660 Dec 02 j 13:44	4°♑21'25	
evening set	-11659 Mar 08 j 02:00	7°♑46'23	
max. Earth dist.	-11659 Mar 23 j 07:52	8°♑42'07	19.58482 AU
conjunction	-11659 Mar 24 j 19:26	8°♑47'35	-1°08'51
minimum elong	-11659 Mar 24 j 19:27	8°♑47'35	1°09'30
morning rise	-11659 Apr 10 j 09:44	9°♑48'21	
retrograde	-11659 Jul 11 j 05:09	13°♑07'09	
opposition	-11659 Sep 22 j 12:49	11°♑05'13	-1°15'37
min. Earth dist.	-11659 Sep 23 j 19:03	11°♑01'55	17.55684 AU
direct	-11659 Dec 07 j 11:30	8°♑59'26	
evening set	-11658 Mar 13 j 04:54	12°♑25'33	
max. Earth dist.	-11658 Mar 28 j 10:23	13°♑21'27	19.52827 AU
conjunction	-11658 Mar 29 j 21:45	13°♑26'55	-1°06'39
minimum elong	-11658 Mar 29 j 21:46	13°♑26'55	1°07'18
morning rise	-11658 Apr 15 j 11:05	14°♑27'48	
retrograde	-11658 Jul 16 j 03:43	17°♑47'05	
opposition	-11658 Sep 27 j 09:15	15°♑45'05	-1°12'57
min. Earth dist.	-11658 Sep 28 j 15:10	15°♑41'49	17.50249 AU
direct	-11658 Dec 12 j 10:44	13°♑39'00	
evening set	-11657 Mar 18 j 08:18	17°♑06'12	
max. Earth dist.	-11657 Apr 02 j 12:11	18°♑02'06	19.47633 AU
conjunction	-11657 Apr 04 j 00:21	18°♑07'43	-1°04'01
minimum elong	-11657 Apr 04 j 00:21	18°♑07'43	1°04'40
morning rise	-11657 Apr 20 j 12:41	19°♑08'42	
retrograde	-11657 Jul 21 j 01:51	22°♑28'27	
opposition	-11657 Oct 02 j 06:39	20°♑26'24	-1°09'48
min. Earth dist.	-11657 Oct 03 j 13:36	20°♑23'01	17.45326 AU
direct	-11657 Dec 17 j 09:38	18°♑20'04	
evening set	-11656 Mar 22 j 11:50	21°♑48'17	
max. Earth dist.	-11656 Apr 06 j 15:18	22°♑44'19	19.42981 AU
conjunction	-11656 Apr 08 j 03:06	22°♑49'54	-1°00'57
minimum elong	-11656 Apr 08 j 03:07	22°♑49'54	1°01'33
morning rise	-11656 Apr 24 j 14:30	23°♑50'58	
retrograde	-11656 Jul 25 j 01:21	27°♑11'10	
opposition	-11656 Oct 06 j 04:44	25°♑09'06	-1°06'09
min. Earth dist.	-11656 Oct 07 j 10:46	25°♑05'49	17.40939 AU
direct	-11656 Dec 21 j 11:02	23°♑02'35	
evening set	-11655 Mar 27 j 15:53	26°♑31'44	
max. Earth dist.	-11655 Apr 11 j 18:36	27°♑27'53	19.38877 AU
conjunction	-11655 Apr 13 j 06:17	27°♑33'27	-0°57'27
minimum elong	-11655 Apr 13 j 06:18	27°♑33'27	0°58'03
morning rise	-11655 Apr 29 j 16:31	28°♑34'35	
	-11655 May 24 j 12:31	0°♒	
retrograde	-11655 Jul 29 j 23:50	1°♒55'12	
	-11655 Oct 08 j 12:58	30°℞♑	
opposition	-11655 Oct 11 j 03:42	29°♑53'09	-1°02'03
min. Earth dist.	-11655 Oct 12 j 10:38	29°♑49'46	17.37124 AU
direct	-11655 Dec 26 j 11:44	27°♑46'31	
	-11654 Mar 10 j 20:37	0°♒	
evening set	-11654 Apr 01 j 20:14	1°♒16'31	
max. Earth dist.	-11654 Apr 16 j 22:11	2°♒12'44	19.35360 AU
conjunction	-11654 Apr 18 j 09:36	2°♒18'17	-0°53'32
minimum elong	-11654 Apr 18 j 09:36	2°♒18'17	0°54'07
morning rise	-11654 May 04 j 18:50	3°♒19'27	
retrograde	-11654 Aug 04 j 00:09	6°♒40'28	
opposition	-11654 Oct 16 j 03:28	4°♒38'28	-0°57'29
min. Earth dist.	-11654 Oct 17 j 09:07	4°♒35'14	17.33880 AU
direct	-11654 Dec 31 j 15:05	2°♒31'45	
evening set	-11653 Apr 07 j 00:32	6°♒02'29	
max. Earth dist.	-11653 Apr 22 j 02:37	6°♒58'54	19.32393 AU
conjunction	-11653 Apr 23 j 12:58	7°♒04'17	-0°49'15
minimum elong	-11653 Apr 23 j 12:58	7°♒04'18	0°49'48
morning rise	-11653 May 09 j 20:55	8°♒05'29	
retrograde	-11653 Aug 08 j 23:28	11°♒26'50	
opposition	-11653 Oct 21 j 04:09	9°♒24'55	-0°52'30
min. Earth dist.	-11653 Oct 22 j 10:27	9°♒21'36	17.31187 AU
direct	-11652 Jan 05 j 17:21	7°♒18'09	
evening set	-11652 Apr 11 j 05:11	10°♒49'31	
max. Earth dist.	-11652 Apr 26 j 06:04	11°♒45'54	19.29975 AU
conjunction	-11652 Apr 27 j 16:25	11°♒51'19	-0°44'36
minimum elong	-11652 Apr 27 j 16:25	11°♒51'19	0°45'07
morning rise	-11652 May 13 j 23:21	12°♒52'30	
	-11652 Jun 21 j 20:31	15°♒	
retrograde	-11652 Aug 13 j 00:45	16°♒14'10	
	-11652 Oct 06 j 10:41	15°℞♒	
opposition	-11652 Oct 25 j 05:13	14°♒12'17	-0°47'08
min. Earth dist.	-11652 Oct 26 j 10:10	14°♒09'08	17.29019 AU
direct	-11651 Jan 09 j 22:08	12°♒05'30	
	-11651 Apr 06 j 02:19	15°♒	
evening set	-11651 Apr 16 j 09:47	15°♒37'22	
max. Earth dist.	-11651 May 01 j 11:17	16°♒33'59	19.28054 AU
conjunction	-11651 May 02 j 20:01	16°♒39'09	-0°39'37
minimum elong	-11651 May 02 j 20:01	16°♒39'09	0°40'05
morning rise	-11651 May 19 j 01:35	17°♒40'18	
retrograde	-11651 Aug 18 j 00:48	21°♒02'12	
opposition	-11651 Oct 30 j 07:19	19°♒00'22	-0°41'25
min. Earth dist.	-11651 Oct 31 j 12:32	18°♒57'12	17.27342 AU
direct	-11650 Jan 15 j 01:20	16°♒53'35	

Attention, astronomical year style is used: The year -11650 in astronomical counting style is the year 11651 BCE in historical counting style.

evening set	-11650 Apr 21 j 14:21	20°♒25'48	
conjunction	-11650 May 07 j 23:12	21°♒27'32	-0°34'21
minimum elong	-11650 May 07 j 23:12	21°♒27'32	0°34'48
max. Earth dist.	-11650 May 06 j 14:30	21°♒22'21	19.26632 AU
morning rise	-11650 May 24 j 03:43	22°♒28'37	
retrograde	-11650 Aug 23 j 02:48	25°♒50'42	
opposition	-11650 Nov 04 j 09:51	23°♒48'54	-0°35'24
min. Earth dist.	-11650 Nov 05 j 13:28	23°♒45'54	17.26160 AU
direct	-11649 Jan 20 j 06:33	21°♒42'07	
evening set	-11649 Apr 26 j 18:34	25°♒14'31	
max. Earth dist.	-11649 May 11 j 19:58	26°♒11'22	19.25698 AU
conjunction	-11649 May 13 j 02:22	26°♒16'11	-0°28'51
minimum elong	-11649 May 13 j 02:22	26°♒16'11	0°29'15
morning rise	-11649 May 29 j 05:30	27°♒17'12	
	-11649 Jul 21 j 15:56	0°♓	
retrograde	-11649 Aug 28 j 03:28	0°♓39'23	
	-11649 Oct 05 j 17:20	30°℞♒	
opposition	-11649 Nov 09 j 12:52	28°♒37'36	-0°29'08
min. Earth dist.	-11649 Nov 10 j 16:06	28°♒34'39	17.25471 AU
direct	-11648 Jan 25 j 10:30	26°♒30'51	
evening set	-11648 Apr 30 j 22:32	0°♓03'18	
	-11648 Apr 30 j 01:10	0°♓	
max. Earth dist.	-11648 May 15 j 22:51	1°♓00'04	19.25276 AU
conjunction	-11648 May 17 j 04:57	1°♓04'51	-0°23'08
minimum elong	-11648 May 17 j 04:57	1°♓04'51	0°23'29
morning rise	-11648 Jun 02 j 07:03	2°♓05'46	
retrograde	-11648 Sep 01 j 05:02	5°♓28'01	
opposition	-11648 Nov 13 j 16:10	3°♓26'13	-0°22'40
min. Earth dist.	-11648 Nov 14 j 17:42	3°♓23'27	17.25304 AU
direct	-11647 Jan 29 j 15:40	1°♓19'30	
evening set	-11647 May 06 j 01:58	4°♓51'53	
max. Earth dist.	-11647 May 21 j 03:59	5°♓48'58	19.25380 AU
conjunction	-11647 May 22 j 07:16	5°♓53'18	-0°17'17
minimum elong	-11647 May 22 j 07:16	5°♓53'18	0°17'35
morning rise	-11647 Jun 07 j 08:00	6°♓54'04	
retrograde	-11647 Sep 06 j 05:42	10°♓16'20	
opposition	-11647 Nov 18 j 19:49	8°♓14'31	-0°16'03
min. Earth dist.	-11647 Nov 19 j 20:07	8°♓11'54	17.25671 AU
direct	-11646 Feb 03 j 20:57	6°♓07'53	
evening set	-11646 May 11 j 05:02	9°♓40'02	
max. Earth dist.	-11646 May 26 j 06:35	10°♓37'06	19.26047 AU
conjunction	-11646 May 27 j 08:53	10°♓41'17	-0°11'19
minimum elong	-11646 May 27 j 08:53	10°♓41'17	0°11'34
behind sun begin	-11646 May 27 j 04:06	10°♓40'33	
behind sun end	-11646 May 27 j 13:40	10°♓42'02	
morning rise	-11646 Jun 12 j 08:34	11°♓41'55	
retrograde	-11646 Sep 11 j 06:12	15°♓04'08	
opposition	-11646 Nov 23 j 23:41	13°♓02'17	-0°09'20
min. Earth dist.	-11646 Nov 24 j 22:06	12°♓59'53	17.26637 AU
direct	-11645 Feb 09 j 01:49	10°♓55'46	
evening set	-11645 May 16 j 07:09	14°♓27'34	
max. Earth dist.	-11645 May 31 j 10:50	15°♓24'58	19.27320 AU
conjunction	-11645 Jun 01 j 09:52	15°♓28'38	-0°05'19
minimum elong	-11645 Jun 01 j 09:52	15°♓28'38	0°05'31
behind sun begin	-11645 Jun 01 j 03:28	15°♓27'38	
behind sun end	-11645 Jun 01 j 16:15	15°♓29'37	
morning rise	-11645 Jun 17 j 08:19	16°♓29'05	
retrograde	-11645 Sep 16 j 06:51	19°♓51'12	
opposition	-11645 Nov 29 j 03:36	17°♓49'21	-0°02'34
min. Earth dist.	-11645 Nov 29 j 23:49	17°♓47'11	17.28205 AU
direct	-11644 Feb 14 j 07:55	15°♓42'59	
asc. node	-11644 Apr 15 j 15:30	17°♓17'13	
evening set	-11644 May 20 j 08:54	19°♓14'19	
conjunction	-11644 Jun 05 j 10:13	20°♓15'10	0°00'50
minimum elong	-11644 Jun 05 j 10:12	20°♓15'10	0°00'42
behind sun begin	-11644 Jun 05 j 03:36	20°♓14'08	
behind sun end	-11644 Jun 05 j 16:49	20°♓16'11	
max. Earth dist.	-11644 Jun 04 j 12:52	20°♓11'46	19.29211 AU
morning rise	-11644 Jun 21 j 07:35	21°♓15'26	
retrograde	-11644 Sep 20 j 05:53	24°♓37'25	
opposition	-11644 Dec 03 j 07:26	22°♓35'35	0°04'11
min. Earth dist.	-11644 Dec 04 j 01:47	22°♓33'37	17.30422 AU
direct	-11643 Feb 18 j 12:15	20°♓29'25	
evening set	-11643 May 25 j 09:53	24°♓00'11	
conjunction	-11643 Jun 10 j 09:58	25°♓00'48	0°06'54
minimum elong	-11643 Jun 10 j 09:58	25°♓00'48	0°06'48
behind sun begin	-11643 Jun 10 j 03:48	24°♓59'51	
behind sun end	-11643 Jun 10 j 16:08	25°♓01'45	
max. Earth dist.	-11643 Jun 09 j 15:54	24°♓57'56	19.31760 AU
morning rise	-11643 Jun 26 j 06:11	26°♓00'51	
retrograde	-11643 Sep 25 j 06:21	29°♓22'41	
opposition	-11643 Dec 08 j 11:23	27°♓20'53	0°10'53
min. Earth dist.	-11643 Dec 09 j 02:41	27°♓19'15	17.33283 AU
direct	-11642 Feb 23 j 18:24	25°♓15'01	
evening set	-11642 May 30 j 10:04	28°♓45'05	
conjunction	-11642 Jun 15 j 08:52	29°♓45'28	0°12'51
minimum elong	-11642 Jun 15 j 08:51	29°♓45'27	0°12'47
behind sun begin	-11642 Jun 15 j 04:40	29°♓44'49	
behind sun end	-11642 Jun 15 j 13:03	29°♓46'06	
max. Earth dist.	-11642 Jun 14 j 17:13	29°♓42'59	19.34950 AU
	-11642 Jun 19 j 04:21	0°♈	
morning rise	-11642 Jul 01 j 04:03	0°♈45'18	
retrograde	-11642 Sep 30 j 04:33	4°♈06'57	
opposition	-11642 Dec 13 j 15:19	2°♈05'14	0°17'30
min. Earth dist.	-11642 Dec 14 j 04:43	2°♈03'48	17.36795 AU
	-11641 Feb 25 j 09:46	30°℞♓	
direct	-11641 Feb 28 j 21:44	29°♓59'41	
	-11641 Mar 04 j 09:14	0°♈	
evening set	-11641 Jun 04 j 09:33	3°♈29'00	
conjunction	-11641 Jun 20 j 07:10	4°♈29'06	0°18'42
minimum elong	-11641 Jun 20 j 07:09	4°♈29'06	0°18'43
max. Earth dist.	-11641 Jun 19 j 18:31	4°♈27'06	19.38776 AU
morning rise	-11641 Jul 06 j 01:23	5°♈28'43	
retrograde	-11641 Oct 05 j 04:37	8°♈50'07	
opposition	-11641 Dec 18 j 18:47	6°♈48'32	0°23'59
min. Earth dist.	-11641 Dec 19 j 04:46	6°♈47'29	17.40899 AU
direct	-11640 Mar 05 j 02:51	4°♈43'22	
evening set	-11640 Jun 08 j 08:17	8°♈11'50	
conjunction	-11640 Jun 24 j 04:44	9°♈11'41	0°24'25
minimum elong	-11640 Jun 24 j 04:44	9°♈11'41	0°24'29
max. Earth dist.	-11640 Jun 23 j 18:54	9°♈10'08	19.43155 AU
morning rise	-11640 Jul 09 j 22:00	10°♈11'03	
retrograde	-11640 Oct 09 j 02:12	13°♈32'12	
opposition	-11640 Dec 22 j 22:19	11°♈30'45	0°30'16
min. Earth dist.	-11640 Dec 23 j 06:41	11°♈29'52	17.45537 AU
direct	-11639 Mar 10 j 04:55	9°♈26'00	
evening set	-11639 Jun 13 j 06:11	12°♈53'32	
conjunction	-11639 Jun 29 j 01:27	13°♈53'04	0°29'57
minimum elong	-11639 Jun 29 j 01:27	13°♈53'04	0°30'05
max. Earth dist.	-11639 Jun 28 j 18:09	13°♈51'55	19.48034 AU
morning rise	-11639 Jul 14 j 17:54	14°♈52'12	
retrograde	-11639 Oct 14 j 01:54	18°♈13'02	

Attention, astronomical year style is used: The year -11638 in astronomical counting style is the year 11639 BCE in historical counting style.

opposition	-11639 Dec 28 j 01:29	16°♈11'45	0°36'20
min. Earth dist.	-11639 Dec 28 j 06:16	16°♈11'15	17.50624 AU
direct	-11638 Mar 15 j 08:22	14°♈07'26	
evening set	-11638 Jun 18 j 03:19	17°♈33'56	
conjunction	-11638 Jul 03 j 21:34	18°♈33'11	0°35'16
minimum elong	-11638 Jul 03 j 21:34	18°♈33'10	0°35'27
max. Earth dist.	-11638 Jul 03 j 17:24	18°♈32'31	19.53317 AU
morning rise	-11638 Jul 19 j 13:09	19°♈32'03	
retrograde	-11638 Oct 18 j 23:17	22°♈52'33	
opposition	-11637 Jan 02 j 04:27	20°♈51'23	0°42'07
min. Earth dist.	-11637 Jan 02 j 07:48	20°♈51'02	17.56097 AU
direct	-11637 Mar 20 j 09:25	18°♈47'30	
evening set	-11637 Jun 22 j 23:36	22°♈12'53	
conjunction	-11637 Jul 08 j 16:46	23°♈11'49	0°40'20
minimum elong	-11637 Jul 08 j 16:46	23°♈11'49	0°40'33
max. Earth dist.	-11637 Jul 08 j 14:35	23°♈11'29	19.58951 AU
morning rise	-11637 Jul 24 j 07:45	24°♈10'26	
retrograde	-11637 Oct 23 j 22:10	27°♈30'32	
opposition	-11636 Jan 07 j 06:46	25°♈29'29	0°47'35
min. Earth dist.	-11636 Jan 07 j 06:37	25°♈29'30	17.61870 AU
direct	-11636 Mar 24 j 11:15	23°♈26'02	
evening set	-11636 Jun 26 j 19:00	26°♈50'14	
conjunction	-11636 Jul 12 j 11:19	27°♈48'52	0°45'06
minimum elong	-11636 Jul 12 j 11:19	27°♈48'52	0°45'22
max. Earth dist.	-11636 Jul 12 j 12:20	27°♈49'01	19.64841 AU
morning rise	-11636 Jul 28 j 01:31	28°♈47'12	
	-11636 Aug 17 j 21:20	0°♉	
retrograde	-11636 Oct 27 j 18:25	2°♉06'51	
opposition	-11635 Jan 11 j 08:41	0°♉05'55	0°52'43
min. Earth dist.	-11635 Jan 11 j 07:09	0°♉06'04	17.67878 AU
	-11635 Jan 13 j 17:26	30°℞♈	
direct	-11635 Mar 29 j 11:53	28°♈02'52	
	-11635 Jun 06 j 13:46	0°♉	
evening set	-11635 Jul 01 j 13:37	1°♉25'49	
conjunction	-11635 Jul 17 j 04:57	2°♉24'08	0°49'32
minimum elong	-11635 Jul 17 j 04:57	2°♉24'08	0°49'51
max. Earth dist.	-11635 Jul 17 j 07:33	2°♉24'32	19.70958 AU
morning rise	-11635 Aug 01 j 18:44	3°♉22'13	
retrograde	-11635 Nov 01 j 16:09	6°♉41'23	
opposition	-11634 Jan 16 j 09:58	4°♉40'30	0°57'28
min. Earth dist.	-11634 Jan 16 j 05:02	4°♉41'01	17.74093 AU
direct	-11634 Apr 03 j 12:25	2°♉37'51	
evening set	-11634 Jul 06 j 06:59	5°♉59'29	
conjunction	-11634 Jul 21 j 21:43	6°♉57'29	0°53'38
minimum elong	-11634 Jul 21 j 21:42	6°♉57'29	0°54'00
max. Earth dist.	-11634 Jul 22 j 03:44	6°♉58'25	19.77251 AU
morning rise	-11634 Aug 06 j 10:55	7°♉55'18	
retrograde	-11634 Nov 06 j 10:50	11°♉13'56	
opposition	-11633 Jan 21 j 10:39	9°♉13'07	1°01'49
min. Earth dist.	-11633 Jan 21 j 04:10	9°♉13'47	17.80470 AU
direct	-11633 Apr 08 j 12:35	7°♉10'51	
evening set	-11633 Jul 10 j 23:37	10°♉31'07	
conjunction	-11633 Jul 26 j 13:32	11°♉28'48	0°57'22
minimum elong	-11633 Jul 26 j 13:32	11°♉28'48	0°57'47
max. Earth dist.	-11633 Jul 26 j 20:59	11°♉29'57	19.83711 AU
morning rise	-11633 Aug 11 j 02:34	12°♉26'20	
	-11633 Oct 01 j 01:23	15°♉	
retrograde	-11633 Nov 11 j 06:29	15°♉44'25	
	-11633 Dec 24 j 01:33	15°℞♉	
opposition	-11632 Jan 26 j 10:16	13°♉43'37	1°05'44
min. Earth dist.	-11632 Jan 26 j 00:40	13°♉44'36	17.87013 AU
direct	-11632 Apr 12 j 11:37	11°♉41'42	
evening set	-11632 Jul 14 j 15:04	15°♉00'36	
	-11632 Jul 14 j 11:06	15°♉	
conjunction	-11632 Jul 30 j 04:34	15°♉57'58	1°00'44
minimum elong	-11632 Jul 30 j 04:34	15°♉57'58	1°01'10
max. Earth dist.	-11632 Jul 30 j 15:32	15°♉59'40	19.90322 AU
morning rise	-11632 Aug 14 j 17:10	16°♉55'15	
retrograde	-11632 Nov 14 j 23:25	20°♉12'44	
opposition	-11631 Jan 30 j 09:20	18°♉11'58	1°09'14
min. Earth dist.	-11631 Jan 29 j 21:54	18°♉13'08	17.93706 AU
direct	-11631 Apr 17 j 10:09	16°♉10'25	
evening set	-11631 Jul 19 j 05:35	19°♉27'54	
conjunction	-11631 Aug 03 j 18:24	20°♉24'58	1°03'41
minimum elong	-11631 Aug 03 j 18:24	20°♉24'58	1°04'11
max. Earth dist.	-11631 Aug 04 j 06:54	20°♉26'53	19.97097 AU
morning rise	-11631 Aug 19 j 07:00	21°♉21'59	
retrograde	-11631 Nov 19 j 17:27	24°♉38'53	
opposition	-11630 Feb 04 j 07:34	22°♉38'07	1°12'18
min. Earth dist.	-11630 Feb 03 j 17:08	22°♉39'36	18.00577 AU
direct	-11630 Apr 22 j 06:56	20°♉36'57	
evening set	-11630 Jul 23 j 19:08	23°♉53'01	
conjunction	-11630 Aug 08 j 07:43	24°♉49'48	1°06'16
minimum elong	-11630 Aug 08 j 07:42	24°♉49'48	1°06'46
max. Earth dist.	-11630 Aug 08 j 23:50	24°♉52'16	20.04041 AU
morning rise	-11630 Aug 23 j 20:04	25°♉46'34	
retrograde	-11630 Nov 24 j 08:48	29°♉02'51	
opposition	-11629 Feb 09 j 04:50	27°♉02'10	1°14'54
min. Earth dist.	-11629 Feb 08 j 12:17	27°♉03'51	18.07607 AU
direct	-11629 Apr 27 j 03:04	25°♉01'22	
evening set	-11629 Jul 28 j 07:54	28°♉16'04	
conjunction	-11629 Aug 12 j 20:02	29°♉12'33	1°08'25
minimum elong	-11629 Aug 12 j 20:01	29°♉12'33	1°08'59
max. Earth dist.	-11629 Aug 13 j 13:28	29°♉15'13	20.11145 AU
	-11629 Aug 25 j 19:57	0°♊	
morning rise	-11629 Aug 28 j 08:35	0°♊09'05	
retrograde	-11629 Nov 29 j 01:34	3°♊24'46	
min. Earth dist.	-11628 Feb 13 j 06:11	1°♊26'07	18.14788 AU
opposition	-11628 Feb 14 j 01:16	1°♊24'10	1°17'03
	-11628 Mar 23 j 01:19	30°℞♉	
direct	-11628 Apr 30 j 21:03	29°♉23'47	
	-11628 Jun 07 j 08:39	0°♊	
evening set	-11628 Jul 31 j 19:37	2°♊37'07	
conjunction	-11628 Aug 16 j 07:42	3°♊33'20	1°10'11
minimum elong	-11628 Aug 16 j 07:42	3°♊33'20	1°10'45
max. Earth dist.	-11628 Aug 17 j 04:33	3°♊36'30	20.18369 AU
morning rise	-11628 Aug 31 j 20:10	4°♊29'38	
retrograde	-11628 Dec 02 j 16:01	7°♊44'44	
opposition	-11627 Feb 17 j 20:53	5°♊44'15	1°18'45
min. Earth dist.	-11627 Feb 16 j 23:37	5°♊46'25	18.22051 AU
direct	-11627 May 05 j 15:08	3°♊44'19	
evening set	-11627 Aug 05 j 06:47	6°♊56'19	
conjunction	-11627 Aug 20 j 18:35	7°♊52'16	1°11'32
minimum elong	-11627 Aug 20 j 18:35	7°♊52'16	1°12'08
max. Earth dist.	-11627 Aug 21 j 16:34	7°♊55'36	20.25660 AU
morning rise	-11627 Sep 05 j 07:26	8°♊48'22	
retrograde	-11627 Dec 07 j 07:28	12°♊02'54	
opposition	-11626 Feb 22 j 15:45	10°♊02'32	1°20'00
min. Earth dist.	-11626 Feb 21 j 16:34	10°♊04'54	18.29363 AU
direct	-11626 May 10 j 06:37	8°♊03'02	
evening set	-11626 Aug 09 j 16:58	11°♊13'45	

Attention, astronomical year style is used: The year -11626 in astronomical counting style is the year 11627 BCE in historical counting style.

conjunction	-11626 Aug 25 j 04:57	12°♊09'28	1°12'28
minimum elong	-11626 Aug 25 j 04:57	12°♊09'28	1°13'06
max. Earth dist.	-11626 Aug 26 j 05:57	12°♊13'14	20.32950 AU
morning rise	-11626 Sep 09 j 17:58	13°♊05'21	
retrograde	-11626 Dec 11 j 21:33	16°♊19'19	
min. Earth dist.	-11625 Feb 26 j 08:36	14°♊21'39	18.36615 AU
opposition	-11625 Feb 27 j 09:43	14°♊19'07	1°20'47
direct	-11625 May 14 j 23:09	12°♊20'03	
evening set	-11625 Aug 14 j 02:46	15°♊29'30	
conjunction	-11625 Aug 29 j 14:40	16°♊24'59	1°13'00
minimum elong	-11625 Aug 29 j 14:40	16°♊24'59	1°13'38
max. Earth dist.	-11625 Aug 30 j 16:21	16°♊28'50	20.40142 AU
morning rise	-11625 Sep 14 j 04:12	17°♊20'41	
retrograde	-11625 Dec 16 j 11:26	20°♊34'05	
min. Earth dist.	-11624 Mar 02 j 00:35	18°♊36'41	18.43747 AU
opposition	-11624 Mar 03 j 02:47	18°♊34'02	1°21'07
direct	-11624 May 18 j 12:20	16°♊35'22	
evening set	-11624 Aug 17 j 11:46	19°♊43'37	
conjunction	-11624 Sep 01 j 23:59	20°♊38'53	1°13'08
minimum elong	-11624 Sep 01 j 23:58	20°♊38'53	1°13'47
max. Earth dist.	-11624 Sep 03 j 04:07	20°♊43'06	20.47173 AU
morning rise	-11624 Sep 17 j 13:48	21°♊34'24	
retrograde	-11624 Dec 20 j 00:47	24°♊47'16	
opposition	-11623 Mar 07 j 19:06	22°♊47'20	1°21'00
min. Earth dist.	-11623 Mar 06 j 15:13	22°♊50'09	18.50663 AU
direct	-11623 May 23 j 03:23	20°♊49'05	
evening set	-11623 Aug 21 j 20:14	23°♊56'08	
conjunction	-11623 Sep 06 j 08:33	24°♊51'12	1°12'52
minimum elong	-11623 Sep 06 j 08:33	24°♊51'12	1°13'30
max. Earth dist.	-11623 Sep 07 j 13:02	24°♊55'26	20.53955 AU
morning rise	-11623 Sep 21 j 23:05	25°♊46'33	
retrograde	-11623 Dec 24 j 13:32	28°♊58'53	
min. Earth dist.	-11622 Mar 11 j 06:23	27°♊01'55	18.57312 AU
opposition	-11622 Mar 12 j 10:46	26°♊59'04	1°20'27
direct	-11622 May 27 j 15:03	25°♊01'08	
evening set	-11622 Aug 26 j 04:07	28°♊07'03	
conjunction	-11622 Sep 10 j 16:57	29°♊01'56	1°12'12
minimum elong	-11622 Sep 10 j 16:57	29°♊01'56	1°12'51
max. Earth dist.	-11622 Sep 11 j 23:20	29°♊06'27	20.60435 AU
morning rise	-11622 Sep 26 j 07:57	29°♊57'09	
	-11622 Sep 27 j 03:40	0°♋	
retrograde	-11622 Dec 29 j 01:54	3°♋08'55	
min. Earth dist.	-11621 Mar 15 j 19:29	1°♋12'11	18.63614 AU
opposition	-11621 Mar 17 j 01:15	1°♋09'11	1°19'28
	-11621 Apr 16 j 16:29	30°℞♊	
direct	-11621 Jun 01 j 04:19	29°♊11'34	
	-11621 Jul 14 j 20:10	0°♋	
evening set	-11621 Aug 30 j 11:33	2°♋16'23	
conjunction	-11621 Sep 15 j 00:41	3°♋11'06	1°11'09
minimum elong	-11621 Sep 15 j 00:41	3°♋11'06	1°11'49
max. Earth dist.	-11621 Sep 16 j 06:57	3°♋15'34	20.66549 AU
morning rise	-11621 Sep 30 j 16:33	4°♋06'11	
retrograde	-11620 Jan 02 j 13:32	7°♋17'25	
min. Earth dist.	-11620 Mar 19 j 09:26	5°♋20'43	18.69548 AU
opposition	-11620 Mar 20 j 15:11	5°♋17'44	1°18'05
direct	-11620 Jun 04 j 14:44	3°♋20'22	
evening set	-11620 Sep 02 j 18:08	6°♋24'07	
conjunction	-11620 Sep 18 j 07:57	7°♋18'41	1°09'45
minimum elong	-11620 Sep 18 j 07:57	7°♋18'41	1°10'25
max. Earth dist.	-11620 Sep 19 j 15:49	7°♋23'22	20.72289 AU
morning rise	-11620 Oct 04 j 00:25	8°♋13'39	
retrograde	-11619 Jan 06 j 00:42	11°♋24'20	
min. Earth dist.	-11619 Mar 23 j 20:59	9°♋27'48	18.75092 AU
opposition	-11619 Mar 25 j 04:07	9°♋24'41	1°16'19
direct	-11619 Jun 09 j 02:27	7°♋27'33	
evening set	-11619 Sep 07 j 00:27	10°♋30'16	
conjunction	-11619 Sep 22 j 14:42	11°♋24'42	1°08'00
minimum elong	-11619 Sep 22 j 14:42	11°♋24'42	1°08'40
max. Earth dist.	-11619 Sep 23 j 22:26	11°♋29'21	20.77651 AU
morning rise	-11619 Oct 08 j 08:10	12°♋19'35	
retrograde	-11618 Jan 10 j 11:09	15°♋29'45	
min. Earth dist.	-11618 Mar 28 j 09:29	13°♋33'10	18.80286 AU
opposition	-11618 Mar 29 j 16:19	13°♋30'04	1°14'10
direct	-11618 Jun 13 j 11:31	11°♋33'07	
evening set	-11618 Sep 11 j 06:06	14°♋34'53	
conjunction	-11618 Sep 26 j 21:13	15°♋29'13	1°05'56
minimum elong	-11618 Sep 26 j 21:13	15°♋29'13	1°06'34
max. Earth dist.	-11618 Sep 28 j 06:23	15°♋34'04	20.82673 AU
morning rise	-11618 Oct 12 j 15:27	16°♋24'00	
retrograde	-11617 Jan 14 j 21:29	19°♋33'39	
min. Earth dist.	-11617 Apr 01 j 19:22	17°♋37'12	18.85136 AU
opposition	-11617 Apr 03 j 03:32	17°♋33'59	1°11'40
direct	-11617 Jun 17 j 21:30	15°♋37'12	
evening set	-11617 Sep 15 j 11:32	18°♋38'05	
conjunction	-11617 Oct 01 j 03:11	19°♋32'19	1°03'32
minimum elong	-11617 Oct 01 j 03:11	19°♋32'19	1°04'10
max. Earth dist.	-11617 Oct 02 j 12:10	19°♋37'06	20.87360 AU
morning rise	-11617 Oct 16 j 22:27	20°♋27'02	
retrograde	-11616 Jan 19 j 06:18	23°♋36'13	
min. Earth dist.	-11616 Apr 05 j 06:24	21°♋39'43	18.89681 AU
opposition	-11616 Apr 06 j 14:03	21°♋36'32	1°08'50
direct	-11616 Jun 21 j 05:19	19°♋39'55	
evening set	-11616 Sep 18 j 16:26	22°♋40'00	
conjunction	-11616 Oct 04 j 09:02	23°♋34'09	1°00'51
minimum elong	-11616 Oct 04 j 09:03	23°♋34'09	1°01'27
max. Earth dist.	-11616 Oct 05 j 19:17	23°♋39'07	20.91759 AU
morning rise	-11616 Oct 20 j 05:08	24°♋28'48	
retrograde	-11615 Jan 22 j 16:34	27°♋37'35	
opposition	-11615 Apr 10 j 23:50	25°♋37'55	1°05'41
min. Earth dist.	-11615 Apr 09 j 14:55	25°♋41'13	18.93925 AU
direct	-11615 Jun 25 j 13:40	23°♋41'28	
evening set	-11615 Sep 22 j 21:09	26°♋40'49	
conjunction	-11615 Oct 08 j 14:29	27°♋34'54	0°57'52
minimum elong	-11615 Oct 08 j 14:29	27°♋34'54	0°58'28
max. Earth dist.	-11615 Oct 10 j 00:24	27°♋39'48	20.95852 AU
morning rise	-11615 Oct 24 j 11:46	28°♋29'32	
	-11615 Nov 22 j 11:16	0°♌	
retrograde	-11614 Jan 27 j 00:13	1°♌37'55	
	-11614 Apr 06 j 07:13	30°℞♋	
min. Earth dist.	-11614 Apr 14 j 01:05	29°♋41'30	18.97865 AU
opposition	-11614 Apr 15 j 09:09	29°♋38'17	1°02'13
direct	-11614 Jun 29 j 20:03	27°♋42'00	
	-11614 Sep 14 j 15:56	0°♌	
evening set	-11614 Sep 27 j 01:39	0°♌40'42	
conjunction	-11614 Oct 12 j 20:03	1°♌34'45	0°54'37
minimum elong	-11614 Oct 12 j 20:04	1°♌34'45	0°55'12
max. Earth dist.	-11614 Oct 14 j 06:52	1°♌39'46	20.99631 AU
morning rise	-11614 Oct 28 j 18:16	2°♌29'21	
retrograde	-11613 Jan 31 j 10:16	5°♌37'23	
min. Earth dist.	-11613 Apr 18 j 08:38	3°♌41'07	19.01459 AU
opposition	-11613 Apr 19 j 17:32	3°♌37'49	0°58'28
direct	-11613 Jul 04 j 03:23	1°♌41'40	

Attention, astronomical year style is used: The year -11613 in astronomical counting style is the year 11614 BCE in historical counting style.

evening set	-11613 Oct 01 j 06:10	4°♌39'49	
conjunction	-11613 Oct 17 j 01:22	5°♌33'52	0°51'07
minimum elong	-11613 Oct 17 j 01:22	5°♌33'52	0°51'41
max. Earth dist.	-11613 Oct 18 j 11:27	5°♌38'45	21.03041 AU
morning rise	-11613 Nov 02 j 00:48	6°♌28'28	
retrograde	-11612 Feb 04 j 17:12	9°♌36'12	
min. Earth dist.	-11612 Apr 21 j 18:07	7°♌39'51	19.04676 AU
opposition	-11612 Apr 23 j 01:43	7°♌36'41	0°54'27
direct	-11612 Jul 07 j 08:02	5°♌40'41	
evening set	-11612 Oct 04 j 10:21	8°♌38'21	
conjunction	-11612 Oct 20 j 06:41	9°♌32'22	0°47'22
minimum elong	-11612 Oct 20 j 06:41	9°♌32'22	0°47'54
max. Earth dist.	-11612 Oct 21 j 17:15	9°♌37'20	21.06057 AU
morning rise	-11612 Nov 05 j 07:05	10°♌26'59	
retrograde	-11611 Feb 08 j 02:40	13°♌34'28	
min. Earth dist.	-11611 Apr 26 j 01:14	11°♌38'13	19.07461 AU
opposition	-11611 Apr 27 j 09:18	11°♌35'00	0°50'10
direct	-11611 Jul 11 j 15:02	9°♌39'08	
evening set	-11611 Oct 08 j 14:55	12°♌36'23	
conjunction	-11611 Oct 24 j 12:08	13°♌30'26	0°43'24
minimum elong	-11611 Oct 24 j 12:08	13°♌30'26	0°43'54
max. Earth dist.	-11611 Oct 25 j 21:30	13°♌35'12	21.08609 AU
morning rise	-11611 Nov 09 j 13:47	14°♌25'04	
	-11611 Nov 20 j 06:14	15°♌	
retrograde	-11610 Feb 12 j 09:35	17°♌32'20	
min. Earth dist.	-11610 Apr 30 j 10:16	15°♌35'56	19.09768 AU
opposition	-11610 May 01 j 16:30	15°♌32'54	0°45'39
	-11610 May 15 j 12:42	15°℞♌	
direct	-11610 Jul 15 j 18:39	13°♌37'07	
	-11610 Sep 11 j 23:12	15°♌	
evening set	-11610 Oct 12 j 19:27	16°♌34'03	
conjunction	-11610 Oct 28 j 17:53	17°♌28'08	0°39'14
minimum elong	-11610 Oct 28 j 17:53	17°♌28'08	0°39'42
max. Earth dist.	-11610 Oct 30 j 03:02	17°♌32'52	21.10661 AU
morning rise	-11610 Nov 13 j 20:33	18°♌22'49	
retrograde	-11609 Feb 16 j 18:31	21°♌29'53	
opposition	-11609 May 05 j 23:12	19°♌30'29	0°40'56
min. Earth dist.	-11609 May 04 j 16:59	19°♌33'31	19.11535 AU
direct	-11609 Jul 20 j 01:04	17°♌34'44	
evening set	-11609 Oct 17 j 00:12	20°♌31'25	
conjunction	-11609 Nov 01 j 23:32	21°♌25'32	0°34'53
minimum elong	-11609 Nov 01 j 23:32	21°♌25'33	0°35'18
max. Earth dist.	-11609 Nov 03 j 06:57	21°♌30'01	21.12140 AU
morning rise	-11609 Nov 18 j 03:25	22°♌20'16	
retrograde	-11608 Feb 21 j 01:28	25°♌27'11	
min. Earth dist.	-11608 May 08 j 01:39	23°♌30'36	19.12725 AU
opposition	-11608 May 09 j 05:42	23°♌27'47	0°36'01
direct	-11608 Jul 23 j 04:31	21°♌32'02	
evening set	-11608 Oct 20 j 04:57	24°♌28'32	
conjunction	-11608 Nov 05 j 05:33	25°♌22'43	0°30'22
minimum elong	-11608 Nov 05 j 05:33	25°♌22'43	0°30'47
max. Earth dist.	-11608 Nov 06 j 12:21	25°♌27'06	21.13046 AU
morning rise	-11608 Nov 21 j 10:27	26°♌17'31	
retrograde	-11607 Feb 24 j 09:53	29°♌24'17	
min. Earth dist.	-11607 May 12 j 07:54	27°♌27'39	19.13323 AU
opposition	-11607 May 13 j 11:42	27°♌24'51	0°30'57
direct	-11607 Jul 27 j 10:13	25°♌29'03	
evening set	-11607 Oct 24 j 09:58	28°♌25'25	
conjunction	-11607 Nov 09 j 11:35	29°♌19'41	0°25'43
minimum elong	-11607 Nov 09 j 11:35	29°♌19'41	0°26'04
max. Earth dist.	-11607 Nov 10 j 16:23	29°♌23'46	21.13355 AU
	-11607 Nov 21 j 09:00	0°♍	
morning rise	-11607 Nov 25 j 17:47	0°♍14'35	
retrograde	-11606 Feb 28 j 16:43	3°♍21'15	
opposition	-11606 May 17 j 17:33	1°♍21'44	0°25'44
min. Earth dist.	-11606 May 16 j 16:10	1°♍24'17	19.13340 AU
	-11606 Jun 24 j 02:49	30°℞♌	
direct	-11606 Jul 31 j 13:44	29°♌25'50	
	-11606 Sep 06 j 04:21	0°♍	
evening set	-11606 Oct 28 j 15:06	2°♍22'09	
conjunction	-11606 Nov 13 j 17:59	3°♍16'31	0°20'57
minimum elong	-11606 Nov 13 j 17:59	3°♍16'31	0°21'17
max. Earth dist.	-11606 Nov 14 j 22:00	3°♍20'29	21.13105 AU
morning rise	-11606 Nov 30 j 01:10	4°♍11'30	
retrograde	-11605 Mar 05 j 00:39	7°♍18'04	
opposition	-11605 May 21 j 22:47	5°♍18'28	0°20'25
min. Earth dist.	-11605 May 20 j 21:48	5°♍21'00	19.12813 AU
direct	-11605 Aug 04 j 18:54	3°♍22'27	
evening set	-11605 Nov 01 j 20:32	6°♍18'48	
conjunction	-11605 Nov 18 j 00:23	7°♍13'16	0°16'06
minimum elong	-11605 Nov 18 j 00:23	7°♍13'16	0°16'23
max. Earth dist.	-11605 Nov 19 j 02:27	7°♍16'57	21.12331 AU
morning rise	-11605 Dec 04 j 08:47	8°♍08'21	
retrograde	-11604 Mar 08 j 07:04	11°♍14'53	
min. Earth dist.	-11604 May 24 j 05:25	9°♍17'29	19.11804 AU
opposition	-11604 May 25 j 04:01	9°♍15'11	0°15'00
direct	-11604 Aug 07 j 22:06	7°♍19'01	
evening set	-11604 Nov 05 j 01:56	10°♍15'28	
conjunction	-11604 Nov 21 j 07:04	11°♍10'04	0°11'11
minimum elong	-11604 Nov 21 j 07:04	11°♍10'04	0°11'26
behind sun begin	-11604 Nov 21 j 02:15	11°♍09'24	
behind sun end	-11604 Nov 21 j 11:52	11°♍10'43	
max. Earth dist.	-11604 Nov 22 j 08:24	11°♍13'39	21.11110 AU
morning rise	-11604 Dec 07 j 16:26	12°♍05'16	
retrograde	-11603 Mar 12 j 15:19	15°♍11'49	
min. Earth dist.	-11603 May 28 j 10:42	13°♍14'17	19.10363 AU
opposition	-11603 May 29 j 08:55	13°♍12'01	0°09'32
direct	-11603 Aug 12 j 03:09	11°♍15'41	
evening set	-11603 Nov 09 j 08:03	14°♍12'20	
conjunction	-11603 Nov 25 j 14:09	15°♍07'04	0°06'14
minimum elong	-11603 Nov 25 j 14:09	15°♍07'04	0°06'26
behind sun begin	-11603 Nov 25 j 07:52	15°♍06'13	
behind sun end	-11603 Nov 25 j 20:26	15°♍07'56	
max. Earth dist.	-11603 Nov 26 j 13:26	15°♍10'22	21.09466 AU
morning rise	-11603 Dec 12 j 00:41	16°♍02'25	
retrograde	-11602 Mar 16 j 21:35	19°♍09'01	
opposition	-11602 Jun 02 j 13:43	17°♍09'08	0°04'00
min. Earth dist.	-11602 Jun 01 j 18:00	17°♍11'09	19.08528 AU
direct	-11602 Aug 16 j 05:55	15°♍12'38	
evening set	-11602 Nov 13 j 14:24	18°♍09'34	
conjunction	-11602 Nov 29 j 21:43	19°♍04'28	0°01'12
minimum elong	-11602 Nov 29 j 21:44	19°♍04'28	0°01'21
behind sun begin	-11602 Nov 29 j 15:03	19°♍03'33	
behind sun end	-11602 Nov 30 j 04:26	19°♍05'23	
max. Earth dist.	-11602 Nov 30 j 19:59	19°♍07'37	21.07452 AU
morning rise	-11602 Dec 16 j 09:11	19°♍59'57	
desc. node	-11601 Feb 24 j 21:45	22°♍52'19	
retrograde	-11601 Mar 21 j 06:36	23°♍06'40	
opposition	-11601 Jun 06 j 18:25	21°♍06'44	-0°01'34
min. Earth dist.	-11601 Jun 05 j 23:11	21°♍08'41	19.06320 AU
direct	-11601 Aug 20 j 10:52	19°♍10'03	
evening set	-11601 Nov 17 j 21:14	22°♍07'22	

Attention, astronomical year style is used: The year -11601 in astronomical counting style is the year 11602 BCE in historical counting style.

conjunction	-11601 Dec 04 j 05:31	23°♑02'27	-0°03'58
minimum elong	-11601 Dec 04 j 05:30	23°♑02'27	0°03'50
behind sun begin	-11601 Dec 03 j 22:53	23°♑01'32	
behind sun end	-11601 Dec 04 j 12:08	23°♑03'21	
max. Earth dist.	-11601 Dec 05 j 01:34	23°♑05'16	21.05059 AU
morning rise	-11601 Dec 20 j 17:59	23°♑58'05	
retrograde	-11600 Mar 24 j 13:11	27°♑04'58	
opposition	-11600 Jun 09 j 23:20	25°♑04'59	-0°07'08
min. Earth dist.	-11600 Jun 09 j 06:40	25°♑06'41	19.03747 AU
direct	-11600 Aug 23 j 13:45	23°♑08'08	
evening set	-11600 Nov 21 j 04:34	26°♑05'55	
conjunction	-11600 Dec 07 j 14:02	27°♑01'11	-0°08'58
minimum elong	-11600 Dec 07 j 14:02	27°♑01'11	0°08'54
behind sun begin	-11600 Dec 07 j 08:19	27°♑00'23	
behind sun end	-11600 Dec 07 j 19:46	27°♑01'58	
max. Earth dist.	-11600 Dec 08 j 08:47	27°♑03'50	21.02317 AU
morning rise	-11600 Dec 24 j 03:23	27°♑56'59	
	-11599 Feb 04 j 13:15	0°♎	
retrograde	-11599 Mar 28 j 22:59	1°♎04'04	
	-11599 May 21 j 12:14	30℞♑	
opposition	-11599 Jun 14 j 04:05	29°♑04'04	-0°12'42
min. Earth dist.	-11599 Jun 13 j 12:10	29°♑05'42	19.00811 AU
direct	-11599 Aug 27 j 18:48	27°♑07'03	
	-11599 Nov 23 j 21:36	0°♎	
evening set	-11599 Nov 25 j 12:44	0°♎05'23	
conjunction	-11599 Dec 11 j 23:09	1°♎00'51	-0°13'58
minimum elong	-11599 Dec 11 j 23:09	1°♎00'51	0°13'56
behind sun begin	-11599 Dec 11 j 19:51	1°♎00'23	
behind sun end	-11599 Dec 12 j 02:26	1°♎01'18	
max. Earth dist.	-11599 Dec 12 j 15:22	1°♎03'08	20.99188 AU
morning rise	-11599 Dec 28 j 13:27	1°♎56'50	
retrograde	-11598 Apr 02 j 06:43	5°♎04'10	
opposition	-11598 Jun 18 j 09:14	3°♎04'08	-0°18'13
min. Earth dist.	-11598 Jun 17 j 20:13	3°♎05'29	18.97483 AU
direct	-11598 Aug 31 j 22:15	1°♎06'56	
evening set	-11598 Nov 29 j 21:29	4°♎05'55	
conjunction	-11598 Dec 16 j 09:00	5°♎01'35	-0°18'56
minimum elong	-11598 Dec 16 j 08:59	5°♎01'35	0°18'57
max. Earth dist.	-11598 Dec 16 j 23:25	5°♎03'37	20.95662 AU
morning rise	-11597 Jan 02 j 00:01	5°♎57'45	
retrograde	-11597 Apr 06 j 17:17	9°♎05'23	
opposition	-11597 Jun 22 j 14:21	7°♎05'20	-0°23'41
min. Earth dist.	-11597 Jun 22 j 02:26	7°♎06'34	18.93738 AU
direct	-11597 Sep 05 j 04:03	5°♎07'54	
evening set	-11597 Dec 04 j 07:07	8°♎07'36	
conjunction	-11597 Dec 20 j 19:27	9°♎03'29	-0°23'50
minimum elong	-11597 Dec 20 j 19:27	9°♎03'29	0°23'54
max. Earth dist.	-11597 Dec 21 j 07:04	9°♎05'08	20.91694 AU
morning rise	-11596 Jan 06 j 11:17	9°♎59'52	
retrograde	-11596 Apr 10 j 01:58	13°♎07'49	
opposition	-11596 Jun 25 j 19:59	11°♎07'43	-0°29'03
min. Earth dist.	-11596 Jun 25 j 11:12	11°♎08'38	18.89549 AU
direct	-11596 Sep 08 j 08:00	9°♎10'03	
evening set	-11596 Dec 07 j 17:18	12°♎10'31	
conjunction	-11596 Dec 24 j 06:41	13°♎06'38	-0°28'38
minimum elong	-11596 Dec 24 j 06:41	13°♎06'38	0°28'44
max. Earth dist.	-11596 Dec 24 j 16:03	13°♎07'58	20.87281 AU
morning rise	-11595 Jan 09 j 23:13	14°♎03'13	
retrograde	-11595 Apr 14 j 13:49	17°♎11'32	
opposition	-11595 Jun 30 j 01:49	15°♎11'22	-0°34'19
min. Earth dist.	-11595 Jun 29 j 18:24	15°♎12'08	18.84890 AU
direct	-11595 Sep 12 j 15:10	13°♎13'24	
evening set	-11595 Dec 12 j 04:34	16°♎14'42	
conjunction	-11595 Dec 28 j 18:45	17°♎11'03	-0°33'18
minimum elong	-11595 Dec 28 j 18:45	17°♎11'03	0°33'28
max. Earth dist.	-11595 Dec 29 j 01:01	17°♎11'57	20.82376 AU
morning rise	-11594 Jan 14 j 11:56	18°♎07'51	
retrograde	-11594 Apr 18 j 22:57	21°♎16'31	
opposition	-11594 Jul 04 j 08:03	19°♎16'15	-0°39'25
min. Earth dist.	-11594 Jul 04 j 03:57	19°♎16'41	18.79752 AU
direct	-11594 Sep 16 j 20:06	17°♎17'57	
evening set	-11594 Dec 16 j 16:27	20°♎20'08	
conjunction	-11593 Jan 02 j 07:32	21°♎16'45	-0°37'50
minimum elong	-11593 Jan 02 j 07:32	21°♎16'44	0°38'01
max. Earth dist.	-11593 Jan 02 j 11:14	21°♎17'16	20.77020 AU
morning rise	-11593 Jan 19 j 01:16	22°♎13'45	
retrograde	-11593 Apr 23 j 11:39	25°♎22'48	
opposition	-11593 Jul 08 j 14:34	23°♎22'24	-0°44'21
min. Earth dist.	-11593 Jul 08 j 11:53	23°♎22'41	18.74177 AU
direct	-11593 Sep 21 j 04:31	21°♎23'43	
evening set	-11593 Dec 21 j 04:59	24°♎26'51	
conjunction	-11592 Jan 06 j 20:47	25°♎23'42	-0°42'11
minimum elong	-11592 Jan 06 j 20:46	25°♎23'42	0°42'26
max. Earth dist.	-11592 Jan 06 j 21:39	25°♎23'50	20.71239 AU
morning rise	-11592 Jan 23 j 15:00	26°♎20'56	
retrograde	-11592 Apr 26 j 21:25	29°♎30'23	
opposition	-11592 Jul 11 j 21:36	27°♎29'50	-0°49'04
min. Earth dist.	-11592 Jul 11 j 22:05	27°♎29'47	18.68218 AU
direct	-11592 Sep 24 j 10:53	25°♎30'44	
evening set	-11592 Dec 24 j 18:21	28°♎34'52	
conjunction	-11591 Jan 10 j 10:56	29°♎31'59	-0°46'20
minimum elong	-11591 Jan 10 j 10:55	29°♎31'59	0°46'37
max. Earth dist.	-11591 Jan 10 j 09:15	29°♎31'44	20.65127 AU
	-11591 Jan 18 j 13:56	0°♏	
morning rise	-11591 Jan 27 j 05:37	0°♏29'26	
retrograde	-11591 May 01 j 10:27	3°♏39'19	
opposition	-11591 Jul 16 j 04:45	1°♏38'36	-0°53'34
min. Earth dist.	-11591 Jul 16 j 06:37	1°♏38'24	18.61961 AU
	-11591 Aug 31 j 05:02	30℞♎	
direct	-11591 Sep 28 j 20:16	29°♎39'04	
	-11591 Oct 27 j 05:57	0°♏	
evening set	-11591 Dec 29 j 08:39	2°♏44'15	
conjunction	-11590 Jan 15 j 01:51	3°♏41'39	-0°50'16
minimum elong	-11590 Jan 15 j 01:51	3°♏41'39	0°50'36
max. Earth dist.	-11590 Jan 14 j 21:36	3°♏41'02	20.58733 AU
morning rise	-11590 Jan 31 j 20:51	4°♏39'20	
retrograde	-11590 May 05 j 21:31	7°♏49'39	
opposition	-11590 Jul 20 j 12:38	5°♏48'48	-0°57'49
min. Earth dist.	-11590 Jul 20 j 17:29	5°♏48'17	18.55467 AU
direct	-11590 Oct 03 j 04:08	3°♏48'50	
evening set	-11589 Jan 02 j 23:36	6°♏55'09	
conjunction	-11589 Jan 19 j 17:21	7°♏52'48	-0°53'58
minimum elong	-11589 Jan 19 j 17:21	7°♏52'48	0°54'20
max. Earth dist.	-11589 Jan 19 j 10:33	7°♏51'49	20.52152 AU
morning rise	-11589 Feb 05 j 12:39	8°♏50'43	
retrograde	-11589 May 10 j 11:10	12°♏01'33	
opposition	-11589 Jul 24 j 20:52	10°♏00'32	-1°01'47
min. Earth dist.	-11589 Jul 25 j 02:53	9°♏59'54	18.48817 AU
direct	-11589 Oct 07 j 14:24	8°♏00'09	
evening set	-11588 Jan 07 j 15:26	11°♏07'39	
conjunction	-11588 Jan 24 j 09:43	12°♏05'36	-0°57'23
minimum elong	-11588 Jan 24 j 09:43	12°♏05'35	0°57'47

Attention, astronomical year style is used: The year -11588 in astronomical counting style is the year 11589 BCE in historical counting style.

max. Earth dist.	-11588 Jan 24 j 00:47	12°♏04'18	20.45432 AU
morning rise	-11588 Feb 10 j 05:07	13°♏03'45	
	-11588 Mar 19 j 11:04	15°♏	
retrograde	-11588 May 13 j 23:45	16°♏15'05	
	-11588 Jul 09 j 16:38	15°℞♏	
opposition	-11588 Jul 28 j 05:49	14°♏13'58	-1°05'27
min. Earth dist.	-11588 Jul 28 j 14:33	14°♏13'03	18.42063 AU
direct	-11588 Oct 10 j 23:40	12°♏13'10	
	-11587 Jan 04 j 19:48	15°♏	
evening set	-11587 Jan 11 j 08:07	15°♏21'55	
conjunction	-11587 Jan 28 j 02:51	16°♏20'09	-1°00'32
minimum elong	-11587 Jan 28 j 02:50	16°♏20'09	1°00'59
max. Earth dist.	-11587 Jan 27 j 15:12	16°♏18'27	20.38650 AU
morning rise	-11587 Feb 13 j 22:28	17°♏18'33	
retrograde	-11587 May 18 j 14:37	20°♏30'27	
opposition	-11587 Aug 01 j 15:19	18°♏29'14	-1°08'47
min. Earth dist.	-11587 Aug 02 j 01:13	18°♏28'11	18.35258 AU
direct	-11587 Oct 15 j 11:01	16°♏28'02	
evening set	-11586 Jan 16 j 01:50	19°♏38'06	
conjunction	-11586 Feb 01 j 20:58	20°♏36'37	-1°03'22
minimum elong	-11586 Feb 01 j 20:58	20°♏36'37	1°03'50
max. Earth dist.	-11586 Feb 01 j 07:26	20°♏34'38	20.31812 AU
morning rise	-11586 Feb 18 j 16:28	21°♏35'15	
retrograde	-11586 May 23 j 04:54	24°♏47'44	
opposition	-11586 Aug 06 j 01:38	22°♏46'29	-1°11'47
min. Earth dist.	-11586 Aug 06 j 14:06	22°♏45'09	18.28415 AU
direct	-11586 Oct 19 j 22:09	20°♏44'55	
evening set	-11585 Jan 20 j 20:32	23°♏56'20	
conjunction	-11585 Feb 06 j 15:51	24°♏55'08	-1°05'52
minimum elong	-11585 Feb 06 j 15:51	24°♏55'08	1°06'23
max. Earth dist.	-11585 Feb 05 j 23:27	24°♏52'44	20.24970 AU
morning rise	-11585 Feb 23 j 11:25	25°♏54'01	
retrograde	-11585 May 27 j 20:45	29°♏07'08	
opposition	-11585 Aug 10 j 12:39	27°♏05'49	-1°14'23
min. Earth dist.	-11585 Aug 11 j 02:22	27°♏04'21	18.21574 AU
direct	-11585 Oct 24 j 11:02	25°♏03'54	
evening set	-11584 Jan 25 j 15:58	28°♏16'43	
conjunction	-11584 Feb 11 j 11:36	29°♏15'49	-1°08'01
minimum elong	-11584 Feb 11 j 11:36	29°♏15'48	1°08'33
max. Earth dist.	-11584 Feb 10 j 17:38	29°♏13'09	20.18110 AU
	-11584 Feb 23 j 24:00	0°♐	
morning rise	-11584 Feb 28 j 06:53	0°♐14'55	
retrograde	-11584 May 31 j 12:43	3°♐28'40	
opposition	-11584 Aug 14 j 00:35	1°♐27'21	-1°16'36
min. Earth dist.	-11584 Aug 14 j 16:48	1°♐25'36	18.14711 AU
	-11584 Sep 20 j 21:06	30°℞♏	
direct	-11584 Oct 28 j 00:07	29°♏25'05	
	-11584 Dec 03 j 20:30	0°♐	
evening set	-11583 Jan 29 j 12:42	2°♐39'19	
max. Earth dist.	-11583 Feb 14 j 11:08	3°♐35'33	20.11239 AU
conjunction	-11583 Feb 15 j 08:20	3°♐38'42	-1°09'47
minimum elong	-11583 Feb 15 j 08:20	3°♐38'42	1°10'20
morning rise	-11583 Mar 04 j 03:33	4°♐38'01	
retrograde	-11583 Jun 05 j 05:37	7°♐52'25	
opposition	-11583 Aug 18 j 13:11	5°♐51'04	-1°18'22
min. Earth dist.	-11583 Aug 19 j 06:59	5°♐49'09	18.07832 AU
direct	-11583 Nov 01 j 15:27	3°♐48'26	
evening set	-11582 Feb 03 j 10:21	7°♐04'08	
max. Earth dist.	-11582 Feb 19 j 07:27	8°♐00'24	20.04326 AU
conjunction	-11582 Feb 20 j 06:09	8°♐03'46	-1°11'09
minimum elong	-11582 Feb 20 j 06:08	8°♐03'46	1°11'44
morning rise	-11582 Mar 09 j 00:50	9°♐03'19	
retrograde	-11582 Jun 09 j 22:51	12°♐18'20	
opposition	-11582 Aug 23 j 02:55	10°♐16'59	-1°19'41
min. Earth dist.	-11582 Aug 23 j 23:05	10°♐14'48	18.00907 AU
direct	-11582 Nov 06 j 06:40	8°♐13'59	
evening set	-11581 Feb 08 j 08:52	11°♐31'05	
max. Earth dist.	-11581 Feb 24 j 02:23	12°♐27'05	19.97386 AU
conjunction	-11581 Feb 25 j 04:25	12°♐30'59	-1°12'05
minimum elong	-11581 Feb 25 j 04:25	12°♐30'59	1°12'41
morning rise	-11581 Mar 13 j 22:51	13°♐30'45	
retrograde	-11581 Jun 14 j 17:04	16°♐46'24	
opposition	-11581 Aug 27 j 17:27	14°♐44'57	-1°20'32
min. Earth dist.	-11581 Aug 28 j 15:13	14°♐42'36	17.93969 AU
direct	-11581 Nov 11 j 00:34	12°♐41'33	
evening set	-11580 Feb 13 j 08:08	16°♐00'03	
max. Earth dist.	-11580 Feb 29 j 00:36	16°♐56'08	19.90435 AU
conjunction	-11580 Mar 01 j 03:44	17°♐00'13	-1°12'36
minimum elong	-11580 Mar 01 j 03:44	17°♐00'13	1°13'14
morning rise	-11580 Mar 17 j 21:31	18°♐00'11	
retrograde	-11580 Jun 18 j 11:30	21°♐16'24	
opposition	-11580 Aug 31 j 08:46	19°♐14'54	-1°20'53
min. Earth dist.	-11580 Sep 01 j 08:31	19°♐12'20	17.87032 AU
direct	-11580 Nov 14 j 18:05	17°♐11'05	
evening set	-11579 Feb 17 j 08:23	20°♐30'58	
max. Earth dist.	-11579 Mar 04 j 21:15	21°♐26'47	19.83528 AU
conjunction	-11579 Mar 06 j 03:37	21°♐31'22	-1°12'40
minimum elong	-11579 Mar 06 j 03:36	21°♐31'22	1°13'19
morning rise	-11579 Mar 22 j 21:01	22°♐31'32	
retrograde	-11579 Jun 23 j 06:51	25°♐48'19	
opposition	-11579 Sep 05 j 01:00	23°♐46'43	-1°20'45
min. Earth dist.	-11579 Sep 06 j 02:23	23°♐43'58	17.80177 AU
direct	-11579 Nov 19 j 13:34	21°♐42'27	
evening set	-11578 Feb 22 j 09:07	25°♐03'41	
max. Earth dist.	-11578 Mar 09 j 21:18	25°♐59'38	19.76726 AU
conjunction	-11578 Mar 11 j 04:12	26°♐04'19	-1°12'17
minimum elong	-11578 Mar 11 j 04:12	26°♐04'19	1°12'55
morning rise	-11578 Mar 27 j 20:48	27°♐04'39	
	-11578 May 30 j 17:36	0°♑	
retrograde	-11578 Jun 28 j 03:05	0°♑21'59	
	-11578 Jul 26 j 19:47	30°℞♐	
opposition	-11578 Sep 09 j 18:05	28°♐20'17	-1°20'06
min. Earth dist.	-11578 Sep 10 j 20:45	28°♐17'23	17.73458 AU
direct	-11578 Nov 24 j 09:22	26°♐15'36	
evening set	-11577 Feb 27 j 10:38	29°♐38'08	
	-11577 Mar 05 j 12:43	0°♑	
max. Earth dist.	-11577 Mar 14 j 19:40	0°♑33'52	19.70115 AU
conjunction	-11577 Mar 16 j 05:09	0°♑38'58	-1°11'26
minimum elong	-11577 Mar 16 j 05:09	0°♑38'58	1°12'06
morning rise	-11577 Apr 01 j 21:11	1°♑39'29	
retrograde	-11577 Jul 02 j 23:19	4°♑57'21	
opposition	-11577 Sep 14 j 11:59	2°♑55'31	-1°18'56
min. Earth dist.	-11577 Sep 15 j 16:05	2°♑52'28	17.66989 AU
direct	-11577 Nov 29 j 05:29	0°♑50'25	
evening set	-11576 Mar 03 j 12:25	4°♑14'12	
max. Earth dist.	-11576 Mar 18 j 21:11	5°♑10'08	19.63785 AU
conjunction	-11576 Mar 20 j 06:38	5°♑15'15	-1°10'08
minimum elong	-11576 Mar 20 j 06:38	5°♑15'15	1°10'47
morning rise	-11576 Apr 05 j 21:48	6°♑15'55	
retrograde	-11576 Jul 06 j 21:31	9°♑34'17	
opposition	-11576 Sep 18 j 06:45	7°♑32'22	-1°17'16
min. Earth dist.	-11576 Sep 19 j 11:23	7°♑29'15	17.60819 AU

Attention, astronomical year style is used: The year -11576 in astronomical counting style is the year 11577 BCE in historical counting style.

direct	-11576 Dec 03 j 03:20	5°♉26'53	
evening set	-11575 Mar 08 j 15:03	8°♉51'53	
max. Earth dist.	-11575 Mar 23 j 21:15	9°♉47'40	19.57798 AU
conjunction	-11575 Mar 25 j 08:33	9°♉53'06	-1°08'23
minimum elong	-11575 Mar 25 j 08:33	9°♉53'06	1°09'01
morning rise	-11575 Apr 10 j 22:57	10°♉53'54	
retrograde	-11575 Jul 11 j 18:08	14°♉12'47	
opposition	-11575 Sep 23 j 02:21	12°♉10'46	-1°15'05
min. Earth dist.	-11575 Sep 24 j 08:14	12°♉07'31	17.55047 AU
direct	-11575 Dec 08 j 00:28	10°♉04'56	
evening set	-11574 Mar 13 j 18:01	13°♉31'06	
max. Earth dist.	-11574 Mar 29 j 00:03	14°♉27'05	19.52244 AU
conjunction	-11574 Mar 30 j 10:58	14°♉32'29	-1°06'10
minimum elong	-11574 Mar 30 j 10:58	14°♉32'29	1°06'48
morning rise	-11574 Apr 16 j 00:22	15°♉33'24	
retrograde	-11574 Jul 16 j 17:47	18°♉52'45	
opposition	-11574 Sep 27 j 22:54	16°♉50'42	-1°12'24
min. Earth dist.	-11574 Sep 29 j 04:32	16°♉47'28	17.49724 AU
direct	-11574 Dec 13 j 00:19	14°♉44'36	
evening set	-11573 Mar 18 j 21:22	18°♉11'50	
max. Earth dist.	-11573 Apr 03 j 01:41	19°♉07'48	19.47170 AU
conjunction	-11573 Apr 04 j 13:29	19°♉13'21	-1°03'31
minimum elong	-11573 Apr 04 j 13:30	19°♉13'21	1°04'08
morning rise	-11573 Apr 21 j 01:57	20°♉14'23	
retrograde	-11573 Jul 21 j 15:03	23°♉34'13	
opposition	-11573 Oct 02 j 20:21	21°♉32'08	-1°09'13
min. Earth dist.	-11573 Oct 04 j 02:58	21°♉28'47	17.44918 AU
direct	-11573 Dec 17 j 23:02	19°♉25'48	
evening set	-11572 Mar 23 j 01:09	22°♉54'04	
max. Earth dist.	-11572 Apr 07 j 05:10	23°♉50'12	19.42633 AU
conjunction	-11572 Apr 08 j 16:31	23°♉55'43	-1°00'25
minimum elong	-11572 Apr 08 j 16:31	23°♉55'43	1°01'02
morning rise	-11572 Apr 25 j 04:00	24°♉56'49	
retrograde	-11572 Jul 25 j 15:28	28°♉17'05	
opposition	-11572 Oct 06 j 18:23	26°♉15'02	-1°05'33
min. Earth dist.	-11572 Oct 08 j 00:17	26°♉11'46	17.40638 AU
direct	-11572 Dec 22 j 00:41	24°♉08'32	
evening set	-11571 Mar 28 j 05:25	27°♉37'46	
max. Earth dist.	-11571 Apr 12 j 08:24	28°♉33'58	19.38622 AU
conjunction	-11571 Apr 13 j 19:53	28°♉39'30	-0°56'53
minimum elong	-11571 Apr 13 j 19:54	28°♉39'30	0°57'29
morning rise	-11571 Apr 30 j 06:15	29°♉40'40	
	-11571 May 05 j 14:19	0°♒	
retrograde	-11571 Jul 30 j 13:45	3°♒01'22	
opposition	-11571 Oct 11 j 17:37	0°♒59'21	-1°01'24
min. Earth dist.	-11571 Oct 13 j 00:27	0°♒55'59	17.36898 AU
	-11571 Nov 04 j 07:48	30°℞♉	
direct	-11571 Dec 27 j 00:59	28°♉52'45	
	-11570 Feb 16 j 12:08	0°♒	
evening set	-11570 Apr 02 j 09:50	2°♒22'51	
conjunction	-11570 Apr 18 j 23:18	3°♒24'38	-0°52'57
minimum elong	-11570 Apr 18 j 23:18	3°♒24'38	0°53'32
max. Earth dist.	-11570 Apr 17 j 12:10	3°♒19'08	19.35150 AU
morning rise	-11570 May 05 j 08:37	4°♒25'50	
retrograde	-11570 Aug 04 j 15:08	7°♒46'56	
opposition	-11570 Oct 16 j 17:31	5°♒44'59	-0°56'49
min. Earth dist.	-11570 Oct 17 j 23:13	5°♒41'45	17.33674 AU
direct	-11569 Jan 01 j 04:42	3°♒38'19	
evening set	-11569 Apr 07 j 14:30	7°♒09'09	
max. Earth dist.	-11569 Apr 22 j 16:35	8°♒05'34	19.32177 AU
conjunction	-11569 Apr 24 j 03:00	8°♒10'59	-0°48'38
minimum elong	-11569 Apr 24 j 03:00	8°♒10'59	0°49'11
morning rise	-11569 May 10 j 11:03	9°♒12'12	
retrograde	-11569 Aug 09 j 14:06	12°♒33'39	
opposition	-11569 Oct 21 j 18:17	10°♒31'46	-0°51'49
min. Earth dist.	-11569 Oct 23 j 00:46	10°♒28'26	17.30952 AU
direct	-11568 Jan 06 j 06:35	8°♒25'02	
evening set	-11568 Apr 11 j 19:18	11°♒56'30	
max. Earth dist.	-11568 Apr 26 j 20:15	12°♒52'55	19.29704 AU
conjunction	-11568 Apr 28 j 06:38	12°♒58'20	-0°43'58
minimum elong	-11568 Apr 28 j 06:39	12°♒58'20	0°44'28
morning rise	-11568 May 14 j 13:40	13°♒59'33	
	-11568 May 31 j 13:21	15°♒	
retrograde	-11568 Aug 13 j 15:56	17°♒21'18	
opposition	-11568 Oct 25 j 19:40	15°♒19'27	-0°46'25
min. Earth dist.	-11568 Oct 27 j 00:46	15°♒16'17	17.28707 AU
	-11568 Nov 02 j 07:07	15°℞♒	
direct	-11567 Jan 10 j 11:52	13°♒12'41	
	-11567 Mar 17 j 07:11	15°♒	
evening set	-11567 Apr 17 j 00:04	16°♒44'38	
max. Earth dist.	-11567 May 02 j 01:26	17°♒41'15	19.27692 AU
conjunction	-11567 May 03 j 10:22	17°♒46'27	-0°38'59
minimum elong	-11567 May 03 j 10:22	17°♒46'27	0°39'27
morning rise	-11567 May 19 j 16:01	18°♒47'37	
retrograde	-11567 Aug 18 j 15:34	22°♒09'37	
opposition	-11567 Oct 30 j 21:52	20°♒07'48	-0°40'42
min. Earth dist.	-11567 Nov 01 j 03:18	20°♒04'36	17.26932 AU
direct	-11566 Jan 15 j 15:29	18°♒01'01	
evening set	-11566 Apr 22 j 04:50	21°♒33'19	
max. Earth dist.	-11566 May 07 j 04:56	22°♒29'52	19.26174 AU
conjunction	-11566 May 08 j 13:47	22°♒35'05	-0°33'43
minimum elong	-11566 May 08 j 13:47	22°♒35'05	0°34'08
morning rise	-11566 May 24 j 18:23	23°♒36'12	
retrograde	-11566 Aug 23 j 17:31	26°♒58'23	
opposition	-11566 Nov 05 j 00:27	24°♒56'33	-0°34'41
min. Earth dist.	-11566 Nov 06 j 04:09	24°♒53'33	17.25659 AU
direct	-11565 Jan 20 j 21:17	22°♒49'46	
evening set	-11565 Apr 27 j 09:01	26°♒22'16	
max. Earth dist.	-11565 May 12 j 10:24	27°♒19'07	19.25159 AU
conjunction	-11565 May 13 j 16:56	27°♒23'57	-0°28'12
minimum elong	-11565 May 13 j 16:56	27°♒23'57	0°28'35
morning rise	-11565 May 29 j 20:10	28°♒25'00	
	-11565 Jun 26 j 07:13	0°♓	
retrograde	-11565 Aug 28 j 17:44	1°♓47'17	
	-11565 Nov 04 j 13:05	30°℞♒	
opposition	-11565 Nov 10 j 03:34	29°♒45'28	-0°28'25
min. Earth dist.	-11565 Nov 11 j 06:56	29°♒42'30	17.24898 AU
direct	-11564 Jan 26 j 01:14	27°♒38'42	
	-11564 Apr 11 j 11:21	0°♓	
evening set	-11564 May 01 j 13:09	1°♓11'15	
conjunction	-11564 May 17 j 19:39	2°♓12'50	-0°22'30
minimum elong	-11564 May 17 j 19:39	2°♓12'50	0°22'51
max. Earth dist.	-11564 May 16 j 13:29	2°♓08'02	19.24684 AU
morning rise	-11564 Jun 02 j 21:50	3°♓13'46	
retrograde	-11564 Sep 01 j 19:40	6°♓36'06	
opposition	-11564 Nov 14 j 06:46	4°♓34'17	-0°21'58
min. Earth dist.	-11564 Nov 15 j 08:15	4°♓31'31	17.24700 AU
direct	-11563 Jan 30 j 06:44	2°♓27'32	
evening set	-11563 May 06 j 16:40	6°♓00'01	
conjunction	-11563 May 22 j 22:03	7°♓01'28	-0°16'40
minimum elong	-11563 May 22 j 22:03	7°♓01'28	0°16'57

Attention, astronomical year style is used: The year -11563 in astronomical counting style is the year 11564 BCE in historical counting style.

max. Earth dist.	-11563 May 21 j 18:52	6°♓57'08	19.24781 AU
morning rise	-11563 Jun 07 j 22:52	8°♓02'16	
retrograde	-11563 Sep 06 j 20:14	11°♓24'36	
opposition	-11563 Nov 19 j 10:31	9°♓22'46	-0°15'22
min. Earth dist.	-11563 Nov 20 j 10:48	9°♓20'08	17.25087 AU
direct	-11562 Feb 04 j 11:02	7°♓16'07	
evening set	-11562 May 11 j 19:38	10°♓48'20	
conjunction	-11562 May 27 j 23:33	11°♓49'38	-0°10'43
minimum elong	-11562 May 27 j 23:33	11°♓49'38	0°10'58
behind sun begin	-11562 May 27 j 18:31	11°♓48'51	
behind sun end	-11562 May 28 j 04:35	11°♓50'25	
max. Earth dist.	-11562 May 26 j 21:27	11°♓45'28	19.25491 AU
morning rise	-11562 Jun 12 j 23:19	12°♓50'17	
retrograde	-11562 Sep 11 j 21:34	16°♓12'35	
opposition	-11562 Nov 24 j 14:22	14°♓10'43	-0°08'40
min. Earth dist.	-11562 Nov 25 j 12:30	14°♓08'20	17.26120 AU
direct	-11561 Feb 09 j 16:35	12°♓04'10	
evening set	-11561 May 16 j 21:56	15°♓36'04	
max. Earth dist.	-11561 Jun 01 j 01:59	16°♓33'33	19.26854 AU
conjunction	-11561 Jun 02 j 00:43	16°♓37'10	-0°04'44
minimum elong	-11561 Jun 02 j 00:42	16°♓37'10	0°04'55
behind sun begin	-11561 Jun 01 j 18:14	16°♓36'09	
behind sun end	-11561 Jun 02 j 07:10	16°♓38'10	
morning rise	-11561 Jun 17 j 23:11	17°♓37'39	
retrograde	-11561 Sep 16 j 21:30	20°♓59'50	
opposition	-11561 Nov 29 j 18:11	18°♓57'59	-0°01'56
min. Earth dist.	-11561 Nov 30 j 14:13	18°♓55'50	17.27803 AU
direct	-11560 Feb 14 j 21:40	16°♓51'38	
asc. node	-11560 Mar 12 j 13:10	17°♓10'14	
evening set	-11560 May 20 j 23:46	20°♓23'03	
max. Earth dist.	-11560 Jun 05 j 03:58	21°♓20'34	19.28880 AU
conjunction	-11560 Jun 06 j 01:09	21°♓23'56	0°01'25
minimum elong	-11560 Jun 06 j 01:07	21°♓23'56	0°01'16
behind sun begin	-11560 Jun 05 j 18:30	21°♓22'54	
behind sun end	-11560 Jun 06 j 07:45	21°♓24'58	
morning rise	-11560 Jun 21 j 22:33	22°♓24'13	
retrograde	-11560 Sep 20 j 21:40	25°♓46'18	
opposition	-11560 Dec 03 j 22:10	23°♓44'28	0°04'48
min. Earth dist.	-11560 Dec 04 j 16:04	23°♓42'33	17.30168 AU
direct	-11559 Feb 19 j 02:49	21°♓38'20	
evening set	-11559 May 26 j 00:43	25°♓09'12	
max. Earth dist.	-11559 Jun 10 j 07:09	26°♓07'02	19.31584 AU
conjunction	-11559 Jun 11 j 00:53	26°♓09'51	0°07'26
minimum elong	-11559 Jun 11 j 00:52	26°♓09'51	0°07'21
behind sun begin	-11559 Jun 10 j 18:49	26°♓08'54	
behind sun end	-11559 Jun 11 j 06:56	26°♓10'47	
morning rise	-11559 Jun 26 j 21:08	27°♓09'55	
	-11559 Aug 23 j 01:44	0°♈	
retrograde	-11559 Sep 25 j 21:09	0°♈31'49	
	-11559 Oct 30 j 15:53	30°♑℞♓	
opposition	-11559 Dec 09 j 02:09	28°♓30'05	0°11'29
min. Earth dist.	-11559 Dec 09 j 17:10	28°♓28'29	17.33182 AU
direct	-11558 Feb 24 j 08:38	26°♓24'16	
evening set	-11558 May 31 j 01:07	29°♓54'26	
	-11558 Jun 01 j 12:57	0°♈	
conjunction	-11558 Jun 15 j 23:57	0°♈54'50	0°13'21
minimum elong	-11558 Jun 15 j 23:57	0°♈54'49	0°13'20
behind sun begin	-11558 Jun 15 j 20:04	0°♈54'13	
behind sun end	-11558 Jun 16 j 03:50	0°♈55'26	
max. Earth dist.	-11558 Jun 15 j 08:25	0°♈52'22	19.34923 AU
morning rise	-11558 Jul 01 j 19:12	1°♈54'41	
retrograde	-11558 Sep 30 j 20:09	5°♈16'23	
opposition	-11558 Dec 14 j 06:03	3°♈14'45	0°18'04
min. Earth dist.	-11558 Dec 14 j 19:09	3°♈13'21	17.36832 AU
direct	-11557 Mar 01 j 12:23	1°♈09'16	
evening set	-11557 Jun 05 j 00:35	4°♈38'40	
conjunction	-11557 Jun 20 j 22:16	5°♈38'47	0°19'11
minimum elong	-11557 Jun 20 j 22:16	5°♈38'47	0°19'12
max. Earth dist.	-11557 Jun 20 j 09:49	5°♈36'49	19.38866 AU
morning rise	-11557 Jul 06 j 16:33	6°♈38'25	
retrograde	-11557 Oct 05 j 19:44	9°♈59'52	
opposition	-11557 Dec 19 j 09:43	7°♈58'21	0°24'30
min. Earth dist.	-11557 Dec 19 j 19:36	7°♈57'18	17.41026 AU
direct	-11556 Mar 05 j 17:26	5°♈53'15	
evening set	-11556 Jun 08 j 23:28	9°♈21'46	
conjunction	-11556 Jun 24 j 19:55	10°♈21'37	0°24'52
minimum elong	-11556 Jun 24 j 19:55	10°♈21'37	0°24'58
max. Earth dist.	-11556 Jun 24 j 10:01	10°♈20'03	19.43309 AU
morning rise	-11556 Jul 10 j 13:14	11°♈21'00	
retrograde	-11556 Oct 09 j 17:46	14°♈42'10	
opposition	-11556 Dec 23 j 13:16	12°♈40'46	0°30'45
min. Earth dist.	-11556 Dec 23 j 21:37	12°♈39'54	17.45706 AU
direct	-11555 Mar 10 j 19:32	10°♈36'04	
evening set	-11555 Jun 13 j 21:32	14°♈03'38	
conjunction	-11555 Jun 29 j 16:50	15°♈03'10	0°30'22
minimum elong	-11555 Jun 29 j 16:50	15°♈03'10	0°30'30
max. Earth dist.	-11555 Jun 29 j 09:29	15°♈02'01	19.48207 AU
morning rise	-11555 Jul 15 j 09:18	16°♈02'18	
retrograde	-11555 Oct 14 j 17:27	19°♈23'08	
opposition	-11555 Dec 28 j 16:32	17°♈21'51	0°36'46
min. Earth dist.	-11555 Dec 28 j 21:26	17°♈21'20	17.50793 AU
direct	-11554 Mar 15 j 23:44	15°♈17'33	
evening set	-11554 Jun 18 j 18:39	18°♈44'03	
conjunction	-11554 Jul 04 j 12:55	19°♈43'17	0°35'38
minimum elong	-11554 Jul 04 j 12:55	19°♈43'17	0°35'49
max. Earth dist.	-11554 Jul 04 j 08:27	19°♈42'35	19.53469 AU
morning rise	-11554 Jul 20 j 04:31	20°♈42'10	
retrograde	-11554 Oct 19 j 14:25	24°♈02'37	
opposition	-11553 Jan 02 j 19:33	22°♈01'27	0°42'30
min. Earth dist.	-11553 Jan 02 j 23:03	22°♈01'05	17.56225 AU
direct	-11553 Mar 21 j 00:29	19°♈57'32	
evening set	-11553 Jun 23 j 15:04	23°♈22'53	
conjunction	-11553 Jul 09 j 08:16	24°♈21'49	0°40'39
minimum elong	-11553 Jul 09 j 08:15	24°♈21'49	0°40'53
max. Earth dist.	-11553 Jul 09 j 05:47	24°♈21'26	19.59049 AU
morning rise	-11553 Jul 24 j 23:14	25°♈20'25	
retrograde	-11553 Oct 24 j 13:15	28°♈40'26	
opposition	-11552 Jan 07 j 21:42	26°♈39'21	0°47'54
min. Earth dist.	-11552 Jan 07 j 21:47	26°♈39'21	17.61937 AU
direct	-11552 Mar 25 j 03:25	24°♈35'50	
evening set	-11552 Jun 27 j 10:29	27°♈59'59	
conjunction	-11552 Jul 13 j 02:49	28°♈58'36	0°45'21
minimum elong	-11552 Jul 13 j 02:49	28°♈58'36	0°45'37
max. Earth dist.	-11552 Jul 13 j 03:26	28°♈58'42	19.64879 AU
morning rise	-11552 Jul 28 j 17:02	29°♈56'56	
	-11552 Jul 29 j 13:03	0°♉	
retrograde	-11552 Oct 28 j 08:59	3°♉16'29	
opposition	-11551 Jan 11 j 23:40	1°♉15'28	0°52'58
min. Earth dist.	-11551 Jan 11 j 22:22	1°♉15'37	17.67888 AU
	-11551 Feb 13 j 11:19	30°♑℞♈	
direct	-11551 Mar 30 j 03:06	29°♈12'21	
	-11551 May 12 j 05:51	0°♉	
evening set	-11551 Jul 02 j 04:52	2°♉35'13	

Attention, astronomical year style is used: The year -11551 in astronomical counting style is the year 11552 BCE in historical counting style.

conjunction	-11551 Jul 17 j 20:16	3°♉33'30	0°49'44
minimum elong	-11551 Jul 17 j 20:15	3°♉33'30	0°50'04
max. Earth dist.	-11551 Jul 17 j 22:41	3°♉33'53	19.70946 AU
morning rise	-11551 Aug 02 j 10:04	4°♉31'34	
retrograde	-11551 Nov 02 j 06:22	7°♉50'37	
opposition	-11550 Jan 17 j 00:51	5°♉49'39	0°57'39
min. Earth dist.	-11550 Jan 16 j 20:04	5°♉50'09	17.74063 AU
direct	-11550 Apr 04 j 04:44	3°♉46'54	
evening set	-11550 Jul 06 j 22:14	7°♉08'26	
conjunction	-11550 Jul 22 j 12:59	8°♉06'25	0°53'47
minimum elong	-11550 Jul 22 j 12:59	8°♉06'25	0°54'08
max. Earth dist.	-11550 Jul 22 j 18:51	8°♉07'20	19.77219 AU
morning rise	-11550 Aug 07 j 02:13	9°♉04'12	
retrograde	-11550 Nov 07 j 00:55	12°♉22'42	
opposition	-11549 Jan 22 j 01:18	10°♉21'47	1°01'56
min. Earth dist.	-11549 Jan 21 j 19:00	10°♉22'26	17.80445 AU
direct	-11549 Apr 09 j 03:12	8°♉19'24	
evening set	-11549 Jul 11 j 14:39	11°♉39'34	
conjunction	-11549 Jul 27 j 04:36	12°♉37'14	0°57'27
minimum elong	-11549 Jul 27 j 04:36	12°♉37'14	0°57'52
max. Earth dist.	-11549 Jul 27 j 12:07	12°♉38'24	19.83707 AU
morning rise	-11549 Aug 11 j 17:39	13°♉34'46	
	-11549 Sep 05 j 17:52	15°♉	
retrograde	-11549 Nov 11 j 20:32	16°♉52'41	
	-11548 Jan 23 j 17:27	15°℞♉	
opposition	-11548 Jan 27 j 00:53	14°♉51'48	1°05'48
min. Earth dist.	-11548 Jan 26 j 15:14	14°♉52'48	17.87042 AU
direct	-11548 Apr 13 j 02:49	12°♉49'47	
	-11548 Jun 25 j 09:11	15°♉	
evening set	-11548 Jul 15 j 05:53	16°♉08'34	
conjunction	-11548 Jul 30 j 19:22	17°♉05'56	1°00'45
minimum elong	-11548 Jul 30 j 19:22	17°♉05'56	1°01'13
max. Earth dist.	-11548 Jul 31 j 06:34	17°♉07'40	19.90397 AU
morning rise	-11548 Aug 15 j 07:58	18°♉03'11	
retrograde	-11548 Nov 15 j 13:45	21°♉20'33	
opposition	-11547 Jan 30 j 23:50	19°♉19'42	1°09'14
min. Earth dist.	-11547 Jan 30 j 12:18	19°♉20'54	17.93845 AU
direct	-11547 Apr 18 j 00:23	17°♉18'06	
evening set	-11547 Jul 19 j 20:23	20°♉35'29	
conjunction	-11547 Aug 04 j 09:12	21°♉32'32	1°03'40
minimum elong	-11547 Aug 04 j 09:12	21°♉32'32	1°04'09
max. Earth dist.	-11547 Aug 04 j 22:01	21°♉34'30	19.97310 AU
morning rise	-11547 Aug 19 j 21:47	22°♉29'32	
retrograde	-11547 Nov 20 j 07:33	25°♉46'19	
opposition	-11546 Feb 04 j 21:52	23°♉45'32	1°12'14
min. Earth dist.	-11546 Feb 04 j 07:06	23°♉47'03	18.00875 AU
direct	-11546 Apr 22 j 21:25	21°♉44'20	
evening set	-11546 Jul 24 j 09:44	25°♉00'20	
conjunction	-11546 Aug 08 j 22:20	25°♉57'06	1°06'11
minimum elong	-11546 Aug 08 j 22:19	25°♉57'06	1°06'43
max. Earth dist.	-11546 Aug 09 j 14:47	25°♉59'38	20.04426 AU
morning rise	-11546 Aug 24 j 10:40	26°♉53'51	
	-11546 Nov 05 j 08:19	0°♊	
retrograde	-11546 Nov 24 j 23:49	0°♊10'03	
	-11546 Dec 14 j 22:10	30°℞♉	
opposition	-11545 Feb 09 j 19:06	28°♉09'22	1°14'48
min. Earth dist.	-11545 Feb 09 j 02:20	28°♉11'05	18.08079 AU
direct	-11545 Apr 27 j 17:15	26°♉08'37	
evening set	-11545 Jul 28 j 22:27	29°♉23'16	
	-11545 Aug 08 j 01:34	0°♊	
conjunction	-11545 Aug 13 j 10:34	0°♊19'44	1°08'19
minimum elong	-11545 Aug 13 j 10:34	0°♊19'44	1°08'50
max. Earth dist.	-11545 Aug 14 j 04:18	0°♊22'26	20.11704 AU
morning rise	-11545 Aug 28 j 23:05	1°♊16'15	
retrograde	-11545 Nov 29 j 15:37	4°♊31'52	
opposition	-11544 Feb 14 j 15:20	2°♊31'19	1°16'54
min. Earth dist.	-11544 Feb 13 j 19:55	2°♊33'18	18.15427 AU
direct	-11544 May 01 j 11:28	0°♊31'00	
evening set	-11544 Aug 01 j 10:09	3°♊44'19	
conjunction	-11544 Aug 16 j 22:14	4°♊40'31	1°10'01
minimum elong	-11544 Aug 16 j 22:14	4°♊40'31	1°10'36
max. Earth dist.	-11544 Aug 17 j 19:21	4°♊43'44	20.19087 AU
morning rise	-11544 Sep 01 j 10:41	5°♊36'48	
retrograde	-11544 Dec 03 j 06:53	8°♊51'50	
opposition	-11543 Feb 18 j 10:57	6°♊51'27	1°18'33
min. Earth dist.	-11543 Feb 17 j 13:36	6°♊53'37	18.22834 AU
direct	-11543 May 06 j 05:18	4°♊51'36	
evening set	-11543 Aug 05 j 21:10	8°♊03'35	
conjunction	-11543 Aug 21 j 08:58	8°♊59'32	1°11'20
minimum elong	-11543 Aug 21 j 08:58	8°♊59'32	1°11'55
max. Earth dist.	-11543 Aug 22 j 07:07	9°♊02'53	20.26500 AU
morning rise	-11543 Sep 05 j 21:49	9°♊55'36	
retrograde	-11543 Dec 07 j 21:41	13°♊10'05	
min. Earth dist.	-11542 Feb 22 j 06:27	11°♊12'12	18.30242 AU
opposition	-11542 Feb 23 j 05:46	11°♊09'50	1°19'44
direct	-11542 May 10 j 21:13	9°♊10'25	
evening set	-11542 Aug 10 j 07:27	12°♊21'08	
conjunction	-11542 Aug 25 j 19:24	13°♊16'49	1°12'14
minimum elong	-11542 Aug 25 j 19:24	13°♊16'49	1°12'50
max. Earth dist.	-11542 Aug 26 j 20:26	13°♊20'35	20.33859 AU
morning rise	-11542 Sep 10 j 08:22	14°♊12'41	
retrograde	-11542 Dec 12 j 11:38	17°♊26'34	
opposition	-11541 Feb 27 j 23:31	15°♊26'29	1°20'28
min. Earth dist.	-11541 Feb 26 j 22:36	15°♊29'01	18.37544 AU
direct	-11541 May 15 j 12:51	13°♊27'30	
evening set	-11541 Aug 14 j 17:13	16°♊36'57	
conjunction	-11541 Aug 30 j 05:05	17°♊32'24	1°12'43
minimum elong	-11541 Aug 30 j 05:05	17°♊32'24	1°13'21
max. Earth dist.	-11541 Aug 31 j 06:36	17°♊36'14	20.41079 AU
morning rise	-11541 Sep 14 j 18:34	18°♊28'04	
retrograde	-11541 Dec 17 j 01:31	21°♊41'24	
opposition	-11540 Mar 03 j 16:38	19°♊41'26	1°20'46
min. Earth dist.	-11540 Mar 02 j 14:30	19°♊44'04	18.44681 AU
direct	-11540 May 19 j 02:58	17°♊42'50	
evening set	-11540 Aug 18 j 02:03	20°♊51'02	
conjunction	-11540 Sep 02 j 14:14	21°♊46'17	1°12'48
minimum elong	-11540 Sep 02 j 14:14	21°♊46'16	1°13'25
max. Earth dist.	-11540 Sep 03 j 18:11	21°♊50'27	20.48092 AU
morning rise	-11540 Sep 18 j 04:00	22°♊41'46	
retrograde	-11540 Dec 20 j 14:33	25°♊54'31	
min. Earth dist.	-11539 Mar 07 j 05:16	23°♊57'27	18.51563 AU
opposition	-11539 Mar 08 j 08:56	23°♊54'40	1°20'36
direct	-11539 May 23 j 17:09	21°♊56'26	
evening set	-11539 Aug 22 j 10:35	25°♊03'25	
conjunction	-11539 Sep 06 j 22:52	25°♊58'27	1°12'29
minimum elong	-11539 Sep 06 j 22:52	25°♊58'27	1°13'08
max. Earth dist.	-11539 Sep 08 j 02:57	26°♊02'38	20.54830 AU
morning rise	-11539 Sep 22 j 13:21	26°♊53'47	
	-11539 Dec 09 j 17:36	0°♋	
retrograde	-11539 Dec 25 j 03:11	0°♋05'57	
	-11538 Jan 09 j 18:27	30°℞♊	
min. Earth dist.	-11538 Mar 11 j 20:07	28°♊09'01	18.58160 AU

Attention, astronomical year style is used: The year -11538 in astronomical counting style is the year 11539 BCE in historical counting style.

opposition	-11538 Mar 13 j 00:23	28°♊06'10	1°20'01
direct	-11538 May 28 j 05:26	26°♊08'15	
evening set	-11538 Aug 26 j 18:16	29°♊14'03	
	-11538 Sep 08 j 19:02	0°♋	
conjunction	-11538 Sep 11 j 07:06	0°♋08'54	1°11'47
minimum elong	-11538 Sep 11 j 07:06	0°♋08'54	1°12'26
max. Earth dist.	-11538 Sep 12 j 13:10	0°♋13'22	20.61255 AU
morning rise	-11538 Sep 26 j 22:04	1°♋04'05	
retrograde	-11538 Dec 29 j 15:25	4°♋15'40	
min. Earth dist.	-11537 Mar 16 j 09:17	2°♋18'55	18.64409 AU
opposition	-11537 Mar 17 j 14:53	2°♋15'56	1°19'00
direct	-11537 Jun 01 j 18:37	0°♋18'18	
evening set	-11537 Aug 31 j 01:30	3°♋22'57	
conjunction	-11537 Sep 15 j 14:36	4°♋17'38	1°10'43
minimum elong	-11537 Sep 15 j 14:36	4°♋17'38	1°11'23
max. Earth dist.	-11537 Sep 16 j 20:37	4°♋22'04	20.67331 AU
morning rise	-11537 Oct 01 j 06:24	5°♋12'41	
retrograde	-11536 Jan 03 j 02:20	8°♋23'42	
min. Earth dist.	-11536 Mar 19 j 22:48	6°♋26'58	18.70324 AU
opposition	-11536 Mar 21 j 04:35	6°♋23'58	1°17'36
direct	-11536 Jun 05 j 05:01	4°♋26'34	
evening set	-11536 Sep 03 j 07:58	7°♋30'08	
conjunction	-11536 Sep 18 j 21:45	8°♋24'39	1°09'18
minimum elong	-11536 Sep 18 j 21:45	8°♋24'39	1°09'57
max. Earth dist.	-11536 Sep 20 j 05:38	8°♋29'21	20.73082 AU
morning rise	-11536 Oct 04 j 14:10	9°♋19'34	
retrograde	-11535 Jan 06 j 13:36	12°♋30'01	
min. Earth dist.	-11535 Mar 24 j 10:13	10°♋33'26	18.75912 AU
opposition	-11535 Mar 25 j 17:20	10°♋30'18	1°15'48
direct	-11535 Jun 09 j 16:55	8°♋33'06	
evening set	-11535 Sep 07 j 13:59	11°♋35'38	
conjunction	-11535 Sep 23 j 04:13	12°♋30'01	1°07'32
minimum elong	-11535 Sep 23 j 04:13	12°♋30'01	1°08'10
max. Earth dist.	-11535 Sep 24 j 12:06	12°♋34'41	20.78517 AU
morning rise	-11535 Oct 08 j 21:39	13°♋24'50	
retrograde	-11534 Jan 10 j 23:13	16°♋34'46	
min. Earth dist.	-11534 Mar 28 j 22:21	14°♋38'09	18.81209 AU
opposition	-11534 Mar 30 j 05:24	14°♋35'02	1°13'38
direct	-11534 Jun 14 j 01:21	12°♋38'02	
evening set	-11534 Sep 11 j 19:31	15°♋39'36	
conjunction	-11534 Sep 27 j 10:34	16°♋33'52	1°05'27
minimum elong	-11534 Sep 27 j 10:35	16°♋33'52	1°06'04
max. Earth dist.	-11534 Sep 28 j 20:07	16°♋38'46	20.83668 AU
morning rise	-11534 Oct 13 j 04:42	17°♋28'36	
retrograde	-11533 Jan 15 j 09:21	20°♋38'00	
min. Earth dist.	-11533 Apr 02 j 07:59	18°♋41'33	18.86217 AU
opposition	-11533 Apr 03 j 16:19	18°♋38'18	1°11'08
direct	-11533 Jun 18 j 11:38	16°♋41'29	
evening set	-11533 Sep 16 j 00:46	19°♋42'11	
conjunction	-11533 Oct 01 j 16:22	20°♋36'21	1°03'03
minimum elong	-11533 Oct 01 j 16:23	20°♋36'22	1°03'39
max. Earth dist.	-11533 Oct 03 j 01:41	20°♋41'12	20.88536 AU
morning rise	-11533 Oct 17 j 11:35	21°♋31'01	
retrograde	-11532 Jan 19 j 18:22	24°♋39'59	
min. Earth dist.	-11532 Apr 05 j 18:48	22°♋43'31	18.90955 AU
opposition	-11532 Apr 07 j 02:49	22°♋40'18	1°08'17
direct	-11532 Jun 21 j 18:13	20°♋43'41	
evening set	-11532 Sep 19 j 05:23	23°♋43'35	
conjunction	-11532 Oct 04 j 21:57	24°♋37'41	1°00'21
minimum elong	-11532 Oct 04 j 21:57	24°♋37'41	1°00'57
max. Earth dist.	-11532 Oct 06 j 08:41	24°♋42'43	20.93131 AU
morning rise	-11532 Oct 20 j 17:59	25°♋32'17	
retrograde	-11531 Jan 23 j 03:50	28°♋40'50	
min. Earth dist.	-11531 Apr 10 j 03:22	26°♋44'33	18.95390 AU
opposition	-11531 Apr 11 j 12:32	26°♋41'14	1°05'07
direct	-11531 Jun 26 j 03:01	24°♋44'49	
evening set	-11531 Sep 23 j 10:05	27°♋44'01	
conjunction	-11531 Oct 09 j 03:21	28°♋38'03	0°57'21
minimum elong	-11531 Oct 09 j 03:21	28°♋38'03	0°57'57
max. Earth dist.	-11531 Oct 10 j 13:32	28°♋42'59	20.97407 AU
morning rise	-11531 Oct 25 j 00:34	29°♋32'37	
	-11531 Nov 02 j 06:22	0°♌	
retrograde	-11530 Jan 27 j 12:49	2°♌40'49	
opposition	-11530 Apr 15 j 21:39	0°♌41'16	1°01'39
min. Earth dist.	-11530 Apr 14 j 13:19	0°♌44'31	18.99499 AU
	-11530 May 03 j 10:38	30°℞♋	
direct	-11530 Jun 30 j 08:21	28°♋45'03	
	-11530 Aug 24 j 10:27	0°♌	
evening set	-11530 Sep 27 j 14:27	1°♌43'37	
conjunction	-11530 Oct 13 j 08:47	2°♌37'38	0°54'06
minimum elong	-11530 Oct 13 j 08:48	2°♌37'38	0°54'41
max. Earth dist.	-11530 Oct 14 j 19:52	2°♌42'41	21.01334 AU
morning rise	-11530 Oct 29 j 06:55	3°♌32'11	
retrograde	-11529 Jan 31 j 21:46	6°♌40'03	
min. Earth dist.	-11529 Apr 18 j 21:04	4°♌43'54	19.03215 AU
opposition	-11529 Apr 20 j 06:07	4°♌40'36	0°57'53
direct	-11529 Jul 04 j 15:37	2°♌44'35	
evening set	-11529 Oct 01 j 18:49	5°♌42'36	
conjunction	-11529 Oct 17 j 13:55	6°♌36'34	0°50'35
minimum elong	-11529 Oct 17 j 13:55	6°♌36'34	0°51'08
max. Earth dist.	-11529 Oct 19 j 00:01	6°♌41'28	21.04837 AU
morning rise	-11529 Nov 02 j 13:15	7°♌31'07	
retrograde	-11528 Feb 05 j 06:10	10°♌38'43	
min. Earth dist.	-11528 Apr 22 j 06:31	8°♌42'31	19.06497 AU
opposition	-11528 Apr 23 j 14:15	8°♌39'21	0°53'51
direct	-11528 Jul 07 j 20:29	6°♌43'29	
evening set	-11528 Oct 04 j 23:05	9°♌41'02	
conjunction	-11528 Oct 20 j 19:20	10°♌35'01	0°46'50
minimum elong	-11528 Oct 20 j 19:20	10°♌35'01	0°47'21
max. Earth dist.	-11528 Oct 22 j 05:51	10°♌39'58	21.07886 AU
morning rise	-11528 Nov 05 j 19:36	11°♌29'35	
retrograde	-11527 Feb 08 j 15:07	14°♌36'56	
opposition	-11527 Apr 27 j 21:43	12°♌37'37	0°49'34
min. Earth dist.	-11527 Apr 26 j 13:44	12°♌40'50	19.09284 AU
direct	-11527 Jul 12 j 02:35	10°♌41'54	
evening set	-11527 Oct 09 j 03:35	13°♌39'03	
conjunction	-11527 Oct 25 j 00:42	14°♌33'03	0°42'52
minimum elong	-11527 Oct 25 j 00:42	14°♌33'03	0°43'21
max. Earth dist.	-11527 Oct 26 j 09:44	14°♌37'46	21.10407 AU
	-11527 Nov 01 j 21:47	15°♌	
morning rise	-11527 Nov 10 j 02:16	15°♌27'39	
retrograde	-11526 Feb 12 j 22:33	18°♌34'47	
min. Earth dist.	-11526 Apr 30 j 22:52	16°♌38'32	19.11526 AU
opposition	-11526 May 02 j 04:57	16°♌35'31	0°45'03
	-11526 Jun 17 j 19:36	15°℞♌	
direct	-11526 Jul 16 j 07:16	14°♌39'52	
	-11526 Aug 13 j 06:56	15°♌	
evening set	-11526 Oct 13 j 08:04	17°♌36'42	
conjunction	-11526 Oct 29 j 06:23	18°♌30'44	0°38'42
minimum elong	-11526 Oct 29 j 06:23	18°♌30'44	0°39'09
max. Earth dist.	-11526 Oct 30 j 15:15	18°♌35'25	21.12361 AU

Attention, astronomical year style is used: The year -11526 in astronomical counting style is the year 11527 BCE in historical counting style.

morning rise	-11526 Nov 14 j 08:53	19°♌25'21	
retrograde	-11525 Feb 17 j 07:32	22°♌32'18	
min. Earth dist.	-11525 May 05 j 05:32	20°♌36'03	19.13171 AU
opposition	-11525 May 06 j 11:29	20°♌33'02	0°40'20
direct	-11525 Jul 20 j 12:57	18°♌37'25	
evening set	-11525 Oct 17 j 12:43	21°♌33'59	
conjunction	-11525 Nov 02 j 11:57	22°♌28'04	0°34'21
minimum elong	-11525 Nov 02 j 11:57	22°♌28'04	0°34'47
max. Earth dist.	-11525 Nov 03 j 18:55	22°♌32'28	21.13710 AU
morning rise	-11525 Nov 18 j 15:45	23°♌22'46	
retrograde	-11524 Feb 21 j 13:49	26°♌29'33	
opposition	-11524 May 09 j 17:57	24°♌30'15	0°35'26
min. Earth dist.	-11524 May 08 j 14:09	24°♌33'02	19.14218 AU
direct	-11524 Jul 23 j 16:50	22°♌34'36	
evening set	-11524 Oct 20 j 17:12	25°♌30'57	
conjunction	-11524 Nov 05 j 17:43	26°♌25'06	0°29'51
minimum elong	-11524 Nov 05 j 17:43	26°♌25'06	0°30'14
max. Earth dist.	-11524 Nov 07 j 00:20	26°♌29'27	21.14470 AU
morning rise	-11524 Nov 21 j 22:32	27°♌19'51	
	-11523 Jan 22 j 11:05	0°♍	
retrograde	-11523 Feb 24 j 22:32	0°♍26'29	
	-11523 Mar 30 j 18:54	30°℞♌	
opposition	-11523 May 13 j 23:51	28°♌27'07	0°30'23
min. Earth dist.	-11523 May 12 j 20:22	28°♌29'53	19.14674 AU
direct	-11523 Jul 27 j 22:44	26°♌31'24	
evening set	-11523 Oct 24 j 22:07	29°♌27'37	
	-11523 Nov 03 j 13:26	0°♍	
conjunction	-11523 Nov 09 j 23:36	0°♍21'51	0°25'13
minimum elong	-11523 Nov 09 j 23:37	0°♍21'51	0°25'35
max. Earth dist.	-11523 Nov 11 j 04:10	0°♍25'53	21.14651 AU
morning rise	-11523 Nov 26 j 05:43	1°♍16'41	
retrograde	-11522 Mar 01 j 04:07	4°♍23'12	
min. Earth dist.	-11522 May 17 j 04:16	2°♍26'16	19.14587 AU
opposition	-11522 May 18 j 05:24	2°♍23'44	0°25'12
direct	-11522 Aug 01 j 01:43	0°♍27'53	
evening set	-11522 Oct 29 j 03:02	3°♍24'03	
conjunction	-11522 Nov 14 j 05:49	4°♍18'22	0°20'29
minimum elong	-11522 Nov 14 j 05:49	4°♍18'22	0°20'48
max. Earth dist.	-11522 Nov 15 j 09:52	4°♍22'20	21.14319 AU
morning rise	-11522 Nov 30 j 12:54	5°♍13'18	
retrograde	-11521 Mar 05 j 12:20	8°♍19'43	
min. Earth dist.	-11521 May 21 j 09:44	6°♍22'40	19.14004 AU
opposition	-11521 May 22 j 10:36	6°♍20'09	0°19'54
direct	-11521 Aug 05 j 07:22	4°♍24'10	
evening set	-11521 Nov 02 j 08:10	7°♍20'21	
conjunction	-11521 Nov 18 j 11:53	8°♍14'46	0°15'39
minimum elong	-11521 Nov 18 j 11:53	8°♍14'46	0°15'56
behind sun begin	-11521 Nov 18 j 11:36	8°♍14'44	
behind sun end	-11521 Nov 18 j 12:10	8°♍14'49	
max. Earth dist.	-11521 Nov 19 j 13:56	8°♍18'27	21.13510 AU
morning rise	-11521 Dec 04 j 20:11	9°♍09'49	
retrograde	-11520 Mar 08 j 18:05	12°♍16'12	
opposition	-11520 May 25 j 15:44	10°♍16'32	0°14'31
min. Earth dist.	-11520 May 24 j 17:07	10°♍18'49	19.12984 AU
direct	-11520 Aug 08 j 10:01	8°♍20'24	
evening set	-11520 Nov 05 j 13:33	11°♍16'41	
conjunction	-11520 Nov 21 j 18:33	12°♍11'14	0°10'46
minimum elong	-11520 Nov 21 j 18:34	12°♍11'14	0°11'00
behind sun begin	-11520 Nov 21 j 13:34	12°♍10'33	
behind sun end	-11520 Nov 21 j 23:33	12°♍11'55	
max. Earth dist.	-11520 Nov 22 j 20:01	12°♍14'50	21.12294 AU

morning rise	-11520 Dec 08 j 03:48	13°♍06'23	
retrograde	-11519 Mar 13 j 02:19	16°♍12'47	
opposition	-11519 May 29 j 20:27	14°♍13'02	0°09'04
min. Earth dist.	-11519 May 28 j 22:09	14°♍15'18	19.11562 AU
direct	-11519 Aug 12 j 15:02	12°♍16'44	
evening set	-11519 Nov 09 j 19:30	15°♍13'14	
conjunction	-11519 Nov 26 j 01:30	16°♍07'56	0°05'50
minimum elong	-11519 Nov 26 j 01:29	16°♍07'55	0°06'01
behind sun begin	-11519 Nov 25 j 19:08	16°♍07'03	
behind sun end	-11519 Nov 26 j 07:50	16°♍08'48	
max. Earth dist.	-11519 Nov 27 j 00:42	16°♍11'12	21.10679 AU
morning rise	-11519 Dec 12 j 11:55	17°♍03'13	
retrograde	-11518 Mar 17 j 08:56	20°♍09'41	
min. Earth dist.	-11518 Jun 02 j 05:25	18°♍11'53	19.09756 AU
opposition	-11518 Jun 03 j 01:19	18°♍09'51	0°03'34
direct	-11518 Aug 16 j 17:36	16°♍13'24	
evening set	-11518 Nov 14 j 01:41	19°♍10'11	
conjunction	-11518 Nov 30 j 08:55	20°♍05'03	0°00'48
minimum elong	-11518 Nov 30 j 08:54	20°♍05'03	0°00'58
behind sun begin	-11518 Nov 30 j 02:14	20°♍04'08	
behind sun end	-11518 Nov 30 j 15:35	20°♍05'58	
max. Earth dist.	-11518 Dec 01 j 07:17	20°♍08'12	21.08689 AU
morning rise	-11518 Dec 16 j 20:12	21°♍00'29	
desc. node	-11517 Jan 27 j 18:14	23°♍02'03	
retrograde	-11517 Mar 21 j 17:28	24°♍07'04	
min. Earth dist.	-11517 Jun 06 j 10:30	22°♍09'10	19.07565 AU
opposition	-11517 Jun 07 j 05:54	22°♍07'11	-0°01'59
direct	-11517 Aug 20 j 22:23	20°♍10'35	
evening set	-11517 Nov 18 j 08:31	23°♍07'45	
conjunction	-11517 Dec 04 j 16:41	24°♍02'47	-0°04'19
minimum elong	-11517 Dec 04 j 16:41	24°♍02'47	0°04'13
behind sun begin	-11517 Dec 04 j 10:05	24°♍01'52	
behind sun end	-11517 Dec 04 j 23:16	24°♍03'41	
max. Earth dist.	-11517 Dec 05 j 12:40	24°♍05'36	21.06310 AU
morning rise	-11517 Dec 21 j 05:04	24°♍58'23	
retrograde	-11516 Mar 25 j 00:50	28°♍05'08	
opposition	-11516 Jun 10 j 10:46	26°♍05'13	-0°07'31
min. Earth dist.	-11516 Jun 09 j 18:01	26°♍06'56	19.04993 AU
direct	-11516 Aug 24 j 01:02	24°♍08'27	
evening set	-11516 Nov 21 j 15:45	27°♍06'06	
conjunction	-11516 Dec 08 j 01:09	28°♍01'19	-0°09'19
minimum elong	-11516 Dec 08 j 01:09	28°♍01'19	0°09'15
behind sun begin	-11516 Dec 07 j 19:31	28°♍00'33	
behind sun end	-11516 Dec 08 j 06:46	28°♍02'06	
max. Earth dist.	-11516 Dec 08 j 19:58	28°♍03'59	21.03548 AU
morning rise	-11516 Dec 24 j 14:23	28°♍57'05	
	-11515 Jan 13 j 12:03	0°♎	
retrograde	-11515 Mar 29 j 10:21	2°♎04'04	
opposition	-11515 Jun 14 j 15:35	0°♎04'08	-0°13'04
min. Earth dist.	-11515 Jun 13 j 23:41	0°♎05'46	19.02010 AU
	-11515 Jun 16 j 07:53	30°℞♍	
direct	-11515 Aug 28 j 06:17	28°♍07'12	
	-11515 Nov 05 j 05:25	0°♎	
evening set	-11515 Nov 25 j 23:59	1°♎05'25	
conjunction	-11515 Dec 12 j 10:16	2°♎00'49	-0°14'17
minimum elong	-11515 Dec 12 j 10:16	2°♎00'49	0°14'17
behind sun begin	-11515 Dec 12 j 07:16	2°♎00'25	
behind sun end	-11515 Dec 12 j 13:16	2°♎01'14	
max. Earth dist.	-11515 Dec 13 j 02:17	2°♎03'05	21.00346 AU
morning rise	-11515 Dec 29 j 00:29	2°♎56'47	
retrograde	-11514 Apr 02 j 18:16	6°♎04'02	
opposition	-11514 Jun 18 j 20:38	4°♎04'04	-0°18'33

Attention, astronomical year style is used: The year -11514 in astronomical counting style is the year 11515 BCE in historical counting style.

min. Earth dist.	-11514 Jun 18 j 07:49	4°♎05'23	18.98585 AU
direct	-11514 Sep 01 j 09:35	2°♎06'55	
evening set	-11514 Nov 30 j 08:45	5°♎05'48	
conjunction	-11514 Dec 16 j 20:09	6°♎01'25	-0°19'14
minimum elong	-11514 Dec 16 j 20:09	6°♎01'25	0°19'15
max. Earth dist.	-11514 Dec 17 j 10:28	6°♎03'27	20.96696 AU
morning rise	-11513 Jan 02 j 11:05	6°♎57'34	
retrograde	-11513 Apr 07 j 04:44	10°♎05'07	
opposition	-11513 Jun 23 j 01:52	8°♎05'06	-0°23'59
min. Earth dist.	-11513 Jun 22 j 14:13	8°♎06'18	18.94688 AU
direct	-11513 Sep 05 j 15:34	6°♎07'45	
evening set	-11513 Dec 04 j 18:13	9°♎07'20	
conjunction	-11513 Dec 21 j 06:27	10°♎03'11	-0°24'05
minimum elong	-11513 Dec 21 j 06:27	10°♎03'11	0°24'09
max. Earth dist.	-11513 Dec 21 j 17:41	10°♎04'46	20.92548 AU
morning rise	-11512 Jan 06 j 22:14	10°♎59'31	
retrograde	-11512 Apr 10 j 13:16	14°♎07'25	
opposition	-11512 Jun 26 j 07:34	12°♎07'21	-0°29'20
min. Earth dist.	-11512 Jun 25 j 23:10	12°♎08'13	18.90293 AU
direct	-11512 Sep 08 j 19:58	10°♎09'43	
evening set	-11512 Dec 08 j 04:27	13°♎10'04	
conjunction	-11512 Dec 24 j 17:46	14°♎06'09	-0°28'51
minimum elong	-11512 Dec 24 j 17:46	14°♎06'09	0°28'58
max. Earth dist.	-11512 Dec 25 j 02:50	14°♎07'26	20.87910 AU
morning rise	-11511 Jan 10 j 10:12	15°♎02'42	
retrograde	-11511 Apr 15 j 00:25	18°♎10'57	
opposition	-11511 Jun 30 j 13:17	16°♎10'47	-0°34'32
min. Earth dist.	-11511 Jun 30 j 06:15	16°♎11'30	18.85401 AU
direct	-11511 Sep 13 j 02:50	14°♎12'49	
evening set	-11511 Dec 12 j 15:35	17°♎14'01	
conjunction	-11511 Dec 29 j 05:42	18°♎10'21	-0°33'29
minimum elong	-11511 Dec 29 j 05:41	18°♎10'21	0°33'38
max. Earth dist.	-11511 Dec 29 j 11:27	18°♎11'10	20.82774 AU
morning rise	-11510 Jan 14 j 22:50	19°♎07'07	
retrograde	-11510 Apr 19 j 09:48	22°♎15'44	
opposition	-11510 Jul 04 j 19:32	20°♎15'26	-0°39'36
min. Earth dist.	-11510 Jul 04 j 15:49	20°♎15'49	18.80038 AU
direct	-11510 Sep 17 j 08:26	18°♎17'07	
evening set	-11510 Dec 17 j 03:12	21°♎19'12	
conjunction	-11509 Jan 02 j 18:12	22°♎15'47	-0°37'58
minimum elong	-11509 Jan 02 j 18:12	22°♎15'47	0°38'12
max. Earth dist.	-11509 Jan 02 j 21:45	22°♎16'17	20.77206 AU
morning rise	-11509 Jan 19 j 11:52	23°♎12'46	
retrograde	-11509 Apr 23 j 21:28	26°♎21'47	
opposition	-11509 Jul 09 j 01:54	24°♎21'20	-0°44'29
min. Earth dist.	-11509 Jul 08 j 23:26	24°♎21'36	18.74273 AU
direct	-11509 Sep 21 j 16:18	22°♎22'38	
evening set	-11509 Dec 21 j 15:41	25°♎25'40	
conjunction	-11508 Jan 07 j 07:24	26°♎22'30	-0°42'17
minimum elong	-11508 Jan 07 j 07:23	26°♎22'30	0°42'32
max. Earth dist.	-11508 Jan 07 j 07:59	26°♎22'35	20.71262 AU
morning rise	-11508 Jan 24 j 01:35	27°♎19'43	
	-11508 Mar 24 j 01:09	0°♏	
retrograde	-11508 Apr 27 j 07:40	0°♏29'09	
	-11508 May 31 j 21:58	30°℞♎	
opposition	-11508 Jul 12 j 08:43	28°♎28'33	-0°49'10
min. Earth dist.	-11508 Jul 12 j 09:23	28°♎28'28	18.68180 AU
direct	-11508 Sep 24 j 22:38	26°♎29'25	
evening set	-11508 Dec 25 j 04:51	29°♎33'28	
	-11507 Jan 02 j 00:20	0°♏	

conjunction	-11507 Jan 10 j 21:23	0°♏30'35	-0°46'24
minimum elong	-11507 Jan 10 j 21:22	0°♏30'35	0°46'42
max. Earth dist.	-11507 Jan 10 j 19:44	0°♏30'21	20.65038 AU
morning rise	-11507 Jan 27 j 16:02	1°♏28'02	
retrograde	-11507 May 01 j 20:40	4°♏37'54	
opposition	-11507 Jul 16 j 15:53	2°♏37'09	-0°53'37
min. Earth dist.	-11507 Jul 16 j 17:41	2°♏36'57	18.61832 AU
direct	-11507 Sep 29 j 07:49	0°♏37'35	
evening set	-11507 Dec 29 j 19:02	3°♏42'44	
conjunction	-11506 Jan 15 j 12:08	4°♏40'07	-0°50'17
minimum elong	-11506 Jan 15 j 12:07	4°♏40'07	0°50'38
max. Earth dist.	-11506 Jan 15 j 07:48	4°♏39'30	20.58572 AU
morning rise	-11506 Feb 01 j 07:05	5°♏37'48	
retrograde	-11506 May 06 j 07:36	8°♏48'09	
opposition	-11506 Jul 20 j 23:37	6°♏47'16	-0°57'49
min. Earth dist.	-11506 Jul 21 j 04:22	6°♏46'46	18.55288 AU
direct	-11506 Oct 03 j 14:55	4°♏47'17	
evening set	-11505 Jan 03 j 09:53	7°♏53'35	
conjunction	-11505 Jan 20 j 03:37	8°♏51'14	-0°53'57
minimum elong	-11505 Jan 20 j 03:36	8°♏51'14	0°54'19
max. Earth dist.	-11505 Jan 19 j 21:01	8°♏50'17	20.51960 AU
morning rise	-11505 Feb 05 j 22:52	9°♏49'10	
retrograde	-11505 May 10 j 22:09	13°♏00'02	
opposition	-11505 Jul 25 j 07:51	10°♏59'01	-1°01'45
min. Earth dist.	-11505 Jul 25 j 13:34	10°♏58'24	18.48618 AU
direct	-11505 Oct 08 j 01:24	8°♏58'38	
evening set	-11504 Jan 08 j 01:34	12°♏06'07	
conjunction	-11504 Jan 24 j 19:48	13°♏04'04	-0°57'20
minimum elong	-11504 Jan 24 j 19:48	13°♏04'04	0°57'45
max. Earth dist.	-11504 Jan 24 j 10:54	13°♏02'47	20.45228 AU
morning rise	-11504 Feb 10 j 15:14	14°♏02'15	
	-11504 Feb 28 j 07:01	15°♏	
retrograde	-11504 May 14 j 10:16	17°♏13'40	
opposition	-11504 Jul 28 j 16:51	15°♏12'33	-1°05'23
min. Earth dist.	-11504 Jul 29 j 01:22	15°♏11'38	18.41852 AU
	-11504 Aug 02 j 15:05	15°℞♏	
direct	-11504 Oct 11 j 09:43	13°♏11'46	
	-11504 Dec 17 j 14:17	15°♏	
evening set	-11503 Jan 11 j 18:19	16°♏20'32	
conjunction	-11503 Jan 28 j 13:02	17°♏18'46	-1°00'27
minimum elong	-11503 Jan 28 j 13:01	17°♏18'46	1°00'53
max. Earth dist.	-11503 Jan 28 j 01:37	17°♏17'06	20.38433 AU
morning rise	-11503 Feb 14 j 08:38	18°♏17'11	
retrograde	-11503 May 19 j 02:04	21°♏29'11	
opposition	-11503 Aug 02 j 02:16	19°♏27'59	-1°08'41
min. Earth dist.	-11503 Aug 02 j 11:56	19°♏26'57	18.35028 AU
direct	-11503 Oct 15 j 21:54	17°♏26'49	
evening set	-11502 Jan 16 j 12:07	20°♏36'55	
conjunction	-11502 Feb 02 j 07:13	21°♏35'27	-1°03'15
minimum elong	-11502 Feb 02 j 07:12	21°♏35'27	1°03'44
max. Earth dist.	-11502 Feb 01 j 17:41	21°♏33'28	20.31570 AU
morning rise	-11502 Feb 19 j 02:45	22°♏34'06	
retrograde	-11502 May 23 j 15:32	25°♏46'42	
opposition	-11502 Aug 06 j 12:42	23°♏45'27	-1°11'38
min. Earth dist.	-11502 Aug 07 j 01:09	23°♏44'08	18.28147 AU
direct	-11502 Oct 20 j 08:03	21°♏43'56	
evening set	-11501 Jan 21 j 06:44	24°♏55'24	
max. Earth dist.	-11501 Feb 06 j 09:50	25°♏51'49	20.24668 AU
conjunction	-11501 Feb 07 j 02:03	25°♏54'13	-1°05'43
minimum elong	-11501 Feb 07 j 02:02	25°♏54'12	1°06'14
morning rise	-11501 Feb 23 j 21:37	26°♏53'06	

Attention, astronomical year style is used: The year -11501 in astronomical counting style is the year 11502 BCE in historical counting style.

	-11501 May 12 j 19:14	0°♐	
retrograde	-11501 May 28 j 08:28	0°♐06'20	
	-11501 Jun 12 j 19:45	30°℞♏	
opposition	-11501 Aug 10 j 23:45	28°♏05'03	-1°14'12
min. Earth dist.	-11501 Aug 11 j 13:29	28°♏03'35	18.21222 AU
direct	-11501 Oct 24 j 22:08	26°♏03'09	
evening set	-11500 Jan 26 j 02:27	29°♏16'01	
	-11500 Feb 07 j 15:38	0°♐	
conjunction	-11500 Feb 11 j 22:03	0°♐15'08	-1°07'50
minimum elong	-11500 Feb 11 j 22:03	0°♐15'08	1°08'22
max. Earth dist.	-11500 Feb 11 j 03:55	0°♐12'27	20.17698 AU
morning rise	-11500 Feb 28 j 17:22	1°♐14'15	
retrograde	-11500 May 31 j 23:16	4°♐28'07	
opposition	-11500 Aug 14 j 11:41	2°♐26'47	-1°16'22
min. Earth dist.	-11500 Aug 15 j 04:14	2°♐25'01	18.14228 AU
direct	-11500 Oct 28 j 10:40	0°♐24'31	
evening set	-11499 Jan 29 j 23:18	3°♐38'49	
conjunction	-11499 Feb 15 j 18:57	4°♐38'12	-1°09'33
minimum elong	-11499 Feb 15 j 18:57	4°♐38'12	1°10'08
max. Earth dist.	-11499 Feb 14 j 21:37	4°♐35'02	20.10670 AU
morning rise	-11499 Mar 04 j 14:11	5°♐37'33	
retrograde	-11499 Jun 05 j 17:16	8°♐52'03	
opposition	-11499 Aug 19 j 00:30	6°♐50'40	-1°18'06
min. Earth dist.	-11499 Aug 19 j 18:31	6°♐48'43	18.07169 AU
direct	-11499 Nov 02 j 02:35	4°♐47'59	
evening set	-11498 Feb 03 j 20:58	8°♐03'42	
conjunction	-11498 Feb 20 j 16:46	9°♐03'22	-1°10'53
minimum elong	-11498 Feb 20 j 16:45	9°♐03'22	1°11'28
max. Earth dist.	-11498 Feb 19 j 17:45	8°♐59'57	20.03560 AU
morning rise	-11498 Mar 09 j 11:29	10°♐02'57	
retrograde	-11498 Jun 10 j 09:50	13°♐18'04	
opposition	-11498 Aug 23 j 14:17	11°♐16'36	-1°19'23
min. Earth dist.	-11498 Aug 24 j 10:48	11°♐14'23	18.00040 AU
direct	-11498 Nov 06 j 18:01	9°♐13'31	
evening set	-11497 Feb 08 j 19:36	12°♐30'39	
conjunction	-11497 Feb 25 j 15:13	13°♐30'35	-1°11'48
minimum elong	-11497 Feb 25 j 15:13	13°♐30'35	1°12'25
max. Earth dist.	-11497 Feb 24 j 12:57	13°♐26'39	19.96421 AU
morning rise	-11497 Mar 14 j 09:43	14°♐30'22	
retrograde	-11497 Jun 15 j 04:25	17°♐46'06	
opposition	-11497 Aug 28 j 04:46	15°♐44'32	-1°20'12
min. Earth dist.	-11497 Aug 29 j 02:43	15°♐42'10	17.92910 AU
direct	-11497 Nov 11 j 11:28	13°♐41'01	
evening set	-11496 Feb 13 j 18:49	16°♐59'32	
max. Earth dist.	-11496 Feb 29 j 11:08	17°♐55'37	19.89295 AU
conjunction	-11496 Mar 01 j 14:30	17°♐59'44	-1°12'17
minimum elong	-11496 Mar 01 j 14:30	17°♐59'44	1°12'54
morning rise	-11496 Mar 18 j 08:24	18°♐59'44	
retrograde	-11496 Jun 18 j 22:45	22°♐16'02	
opposition	-11496 Aug 31 j 20:13	20°♐14'23	-1°20'31
min. Earth dist.	-11496 Sep 01 j 20:11	20°♐11'47	17.85817 AU
direct	-11496 Nov 15 j 05:20	18°♐10'26	
evening set	-11495 Feb 17 j 19:05	21°♐30'20	
max. Earth dist.	-11495 Mar 05 j 08:00	22°♐26'10	19.82258 AU
conjunction	-11495 Mar 06 j 14:23	22°♐30'46	-1°12'19
minimum elong	-11495 Mar 06 j 14:23	22°♐30'46	1°12'57
morning rise	-11495 Mar 23 j 07:53	23°♐30'58	
retrograde	-11495 Jun 23 j 18:05	26°♐47'50	
opposition	-11495 Sep 05 j 12:20	24°♐46'04	-1°20'21
min. Earth dist.	-11495 Sep 06 j 13:40	24°♐43'19	17.78863 AU
direct	-11495 Nov 20 j 00:37	22°♐41'40	
evening set	-11494 Feb 22 j 19:51	26°♐02'56	
max. Earth dist.	-11494 Mar 10 j 08:14	26°♐58'56	19.75390 AU
conjunction	-11494 Mar 11 j 15:02	27°♐03'36	-1°11'54
minimum elong	-11494 Mar 11 j 15:02	27°♐03'36	1°12'33
morning rise	-11494 Mar 28 j 07:44	28°♐03'59	
	-11494 May 03 j 12:50	0°♑	
retrograde	-11494 Jun 28 j 13:57	1°♑21'25	
	-11494 Aug 25 j 10:10	30°℞♐	
opposition	-11494 Sep 10 j 05:31	29°♐19'33	-1°19'41
min. Earth dist.	-11494 Sep 11 j 08:08	29°♐16'39	17.72115 AU
direct	-11494 Nov 24 j 20:25	27°♐14'45	
	-11493 Feb 17 j 04:31	0°♑	
evening set	-11493 Feb 27 j 21:13	0°♑37'19	
max. Earth dist.	-11493 Mar 15 j 06:38	1°♑33'09	19.68780 AU
conjunction	-11493 Mar 16 j 15:49	1°♑38'12	-1°11'03
minimum elong	-11493 Mar 16 j 15:49	1°♑38'12	1°11'41
morning rise	-11493 Apr 02 j 07:59	2°♑38'45	
retrograde	-11493 Jul 03 j 10:28	5°♑56'45	
opposition	-11493 Sep 14 j 23:26	3°♑54'47	-1°18'30
min. Earth dist.	-11493 Sep 16 j 03:11	3°♑51'46	17.65673 AU
direct	-11493 Nov 29 j 17:07	1°♑49'34	
evening set	-11492 Mar 03 j 23:09	5°♑13'27	
max. Earth dist.	-11492 Mar 19 j 08:26	6°♑09'28	19.62504 AU
conjunction	-11492 Mar 20 j 17:28	6°♑14'32	-1°09'43
minimum elong	-11492 Mar 20 j 17:28	6°♑14'32	1°10'22
morning rise	-11492 Apr 06 j 08:44	7°♑15'15	
retrograde	-11492 Jul 07 j 07:51	10°♑33'45	
opposition	-11492 Sep 18 j 18:11	8°♑31'44	-1°16'48
min. Earth dist.	-11492 Sep 19 j 22:33	8°♑28'39	17.59587 AU
direct	-11492 Dec 03 j 14:29	6°♑26'11	
evening set	-11491 Mar 09 j 01:55	9°♑51'17	
max. Earth dist.	-11491 Mar 24 j 08:34	10°♑47'11	19.56626 AU
conjunction	-11491 Mar 25 j 19:30	10°♑52'34	-1°07'57
minimum elong	-11491 Mar 25 j 19:30	10°♑52'34	1°08'35
morning rise	-11491 Apr 11 j 10:01	11°♑53'25	
retrograde	-11491 Jul 12 j 05:55	15°♑12'28	
opposition	-11491 Sep 23 j 13:58	13°♑10'23	-1°14'36
min. Earth dist.	-11491 Sep 24 j 19:17	13°♑07'12	17.53942 AU
direct	-11491 Dec 08 j 12:20	11°♑04'32	
evening set	-11490 Mar 14 j 04:53	14°♑30'50	
max. Earth dist.	-11490 Mar 29 j 11:34	15°♑26'57	19.51209 AU
conjunction	-11490 Mar 30 j 21:56	15°♑32'16	-1°05'43
minimum elong	-11490 Mar 30 j 21:56	15°♑32'16	1°06'21
morning rise	-11490 Apr 16 j 11:27	16°♑33'15	
retrograde	-11490 Jul 17 j 04:51	19°♑52'48	
opposition	-11490 Sep 28 j 10:37	17°♑50'44	-1°11'54
min. Earth dist.	-11490 Sep 29 j 15:48	17°♑47'32	17.48760 AU
direct	-11490 Dec 13 j 11:21	15°♑44'38	
evening set	-11489 Mar 19 j 08:33	19°♑12'03	
max. Earth dist.	-11489 Apr 03 j 13:15	20°♑08'07	19.46280 AU
conjunction	-11489 Apr 05 j 00:46	20°♑13'38	-1°03'03
minimum elong	-11489 Apr 05 j 00:46	20°♑13'38	1°03'40
morning rise	-11489 Apr 21 j 13:23	21°♑14'43	
retrograde	-11489 Jul 22 j 03:49	24°♑34'46	
opposition	-11489 Oct 03 j 08:04	22°♑32'43	-1°08'41
min. Earth dist.	-11489 Oct 04 j 14:14	22°♑29'25	17.44091 AU
direct	-11489 Dec 18 j 10:04	20°♑26'25	
evening set	-11488 Mar 23 j 12:32	23°♑54'54	
max. Earth dist.	-11488 Apr 07 j 17:03	24°♑51'09	19.41862 AU
conjunction	-11488 Apr 09 j 04:02	24°♑56'37	-0°59'56

Attention, astronomical year style is used: The year -11488 in astronomical counting style is the year 11489 BCE in historical counting style.

minimum elong	-11488 Apr 09 j 04:03	24°♑56'37	1°00'31
morning rise	-11488 Apr 25 j 15:39	25°♑57'46	
retrograde	-11488 Jul 26 j 04:03	29°♑18'17	
opposition	-11488 Oct 07 j 06:26	27°♑16'17	-1°05'00
min. Earth dist.	-11488 Oct 08 j 12:05	27°♑13'02	17.39905 AU
direct	-11488 Dec 22 j 11:28	25°♑09'51	
evening set	-11487 Mar 28 j 17:02	28°♑39'18	
max. Earth dist.	-11487 Apr 12 j 20:09	29°♑35'33	19.37916 AU
conjunction	-11487 Apr 14 j 07:36	29°♑41'06	-0°56'23
minimum elong	-11487 Apr 14 j 07:36	29°♑41'06	0°56'58
	-11487 Apr 19 j 08:35	0°♒	
morning rise	-11487 Apr 30 j 18:04	0°♒42'19	
retrograde	-11487 Jul 31 j 03:10	4°♒03'16	
opposition	-11487 Oct 12 j 05:47	2°♒01'19	-1°00'50
min. Earth dist.	-11487 Oct 13 j 12:28	1°♒57'58	17.36202 AU
	-11487 Dec 13 j 11:38	30°℞♑	
direct	-11487 Dec 27 j 12:01	29°♑54'47	
	-11486 Jan 10 j 13:43	0°♒	
evening set	-11486 Apr 02 j 21:47	3°♒25'05	
max. Earth dist.	-11486 Apr 18 j 00:17	4°♒21'26	19.34449 AU
conjunction	-11486 Apr 19 j 11:22	4°♒26'56	-0°52'26
minimum elong	-11486 Apr 19 j 11:22	4°♒26'57	0°52'59
morning rise	-11486 May 05 j 20:47	5°♒28'12	
retrograde	-11486 Aug 05 j 04:06	8°♒49'32	
opposition	-11486 Oct 17 j 05:54	6°♒47'37	-0°56'13
min. Earth dist.	-11486 Oct 18 j 11:36	6°♒44'23	17.32955 AU
direct	-11485 Jan 01 j 15:49	4°♒41'00	
evening set	-11485 Apr 08 j 02:35	8°♒12'02	
max. Earth dist.	-11485 Apr 23 j 04:28	9°♒08'28	19.31424 AU
conjunction	-11485 Apr 24 j 15:11	9°♒13'56	-0°48'06
minimum elong	-11485 Apr 24 j 15:12	9°♒13'56	0°48'37
morning rise	-11485 May 10 j 23:23	10°♒15'12	
retrograde	-11485 Aug 10 j 03:30	13°♒36'52	
opposition	-11485 Oct 22 j 06:53	11°♒35'00	-0°51'12
min. Earth dist.	-11485 Oct 23 j 13:27	11°♒31'40	17.30155 AU
direct	-11484 Jan 06 j 18:22	9°♒28'18	
evening set	-11484 Apr 12 j 07:40	12°♒59'56	
max. Earth dist.	-11484 Apr 27 j 08:28	13°♒56'22	19.28854 AU
conjunction	-11484 Apr 28 j 19:06	14°♒01'49	-0°43'25
minimum elong	-11484 Apr 28 j 19:06	14°♒01'49	0°43'55
	-11484 May 14 j 06:14	15°♒	
morning rise	-11484 May 15 j 02:13	15°♒03'05	
retrograde	-11484 Aug 14 j 04:52	18°♒25'01	
opposition	-11484 Oct 26 j 08:18	16°♒23'09	-0°45'48
min. Earth dist.	-11484 Oct 27 j 13:32	16°♒19'58	17.27801 AU
	-11484 Nov 30 j 02:47	15°℞♒	
direct	-11483 Jan 11 j 00:08	14°♒16'23	
	-11483 Feb 20 j 23:34	15°♒	
evening set	-11483 Apr 17 j 12:40	17°♒48'30	
conjunction	-11483 May 03 j 23:03	18°♒50'22	-0°38'25
minimum elong	-11483 May 03 j 23:04	18°♒50'22	0°38'52
max. Earth dist.	-11483 May 02 j 13:42	18°♒45'06	19.26735 AU
morning rise	-11483 May 20 j 04:49	19°♒51'35	
retrograde	-11483 Aug 19 j 04:39	23°♒13'44	
opposition	-11483 Oct 31 j 10:38	21°♒11'52	-0°40'05
min. Earth dist.	-11483 Nov 01 j 16:16	21°♒08'39	17.25923 AU
direct	-11482 Jan 16 j 03:44	19°♒05'03	
evening set	-11482 Apr 22 j 17:25	22°♒37'28	
max. Earth dist.	-11482 May 07 j 17:27	23°♒34'03	19.25122 AU
conjunction	-11482 May 09 j 02:29	23°♒39'17	-0°33'09
minimum elong	-11482 May 09 j 02:29	23°♒39'17	0°33'35
morning rise	-11482 May 25 j 07:12	24°♒40'27	
retrograde	-11482 Aug 24 j 06:36	28°♒02'46	
opposition	-11482 Nov 05 j 13:16	26°♒00'52	-0°34'04
min. Earth dist.	-11482 Nov 06 j 17:05	25°♒57'51	17.24566 AU
direct	-11481 Jan 21 j 09:49	23°♒54'00	
evening set	-11481 Apr 27 j 21:51	27°♒26'37	
max. Earth dist.	-11481 May 12 j 23:07	28°♒23'28	19.24041 AU
conjunction	-11481 May 14 j 05:52	28°♒28'21	-0°27'40
minimum elong	-11481 May 14 j 05:52	28°♒28'21	0°28'02
morning rise	-11481 May 30 j 09:12	29°♒29'26	
	-11481 Jun 07 j 17:36	0°♓	
retrograde	-11481 Aug 29 j 06:54	2°♓51'49	
opposition	-11481 Nov 10 j 16:18	0°♓49'55	-0°27'49
min. Earth dist.	-11481 Nov 11 j 19:53	0°♓46'56	17.23764 AU
	-11481 Nov 30 j 09:30	30°℞♒	
direct	-11480 Jan 26 j 13:59	28°♒43'03	
	-11480 Mar 21 j 15:55	0°♓	
evening set	-11480 May 02 j 02:04	2°♓15'42	
max. Earth dist.	-11480 May 17 j 02:30	3°♓12'32	19.23547 AU
conjunction	-11480 May 18 j 08:41	3°♓17'20	-0°21'59
minimum elong	-11480 May 18 j 08:41	3°♓17'20	0°22'18
morning rise	-11480 Jun 03 j 10:59	4°♓18'19	
retrograde	-11480 Sep 02 j 08:36	7°♓40'44	
opposition	-11480 Nov 14 j 19:42	5°♓38'48	-0°21'23
min. Earth dist.	-11480 Nov 15 j 21:09	5°♓36'03	17.23572 AU
direct	-11479 Jan 30 j 19:33	3°♓31'57	
evening set	-11479 May 07 j 05:35	7°♓04'31	
max. Earth dist.	-11479 May 22 j 08:00	8°♓01'42	19.23673 AU
conjunction	-11479 May 23 j 11:04	8°♓06'01	-0°16'09
minimum elong	-11479 May 23 j 11:04	8°♓06'01	0°16'26
morning rise	-11479 Jun 08 j 11:58	9°♓06'51	
retrograde	-11479 Sep 07 j 09:17	12°♓29'16	
opposition	-11479 Nov 19 j 23:32	10°♓27'20	-0°14'48
min. Earth dist.	-11479 Nov 20 j 23:47	10°♓24'43	17.24017 AU
direct	-11478 Feb 05 j 00:33	8°♓20'34	
evening set	-11478 May 12 j 08:46	11°♓52'55	
max. Earth dist.	-11478 May 27 j 10:50	12°♓50'06	19.24468 AU
conjunction	-11478 May 28 j 12:46	12°♓54'14	-0°10'13
minimum elong	-11478 May 28 j 12:47	12°♓54'14	0°10'27
behind sun begin	-11478 May 28 j 07:33	12°♓53'25	
behind sun end	-11478 May 28 j 18:00	12°♓55'03	
morning rise	-11478 Jun 13 j 12:38	13°♓54'56	
retrograde	-11478 Sep 12 j 10:15	17°♓17'19	
opposition	-11478 Nov 25 j 03:22	15°♓15'22	-0°08'07
min. Earth dist.	-11478 Nov 26 j 01:14	15°♓13'01	17.25158 AU
direct	-11477 Feb 10 j 05:20	13°♓08'45	
evening set	-11477 May 17 j 11:09	16°♓40'45	
conjunction	-11477 Jun 02 j 14:02	17°♓41'54	-0°04'15
minimum elong	-11477 Jun 02 j 14:02	17°♓41'54	0°04'26
behind sun begin	-11477 Jun 02 j 07:31	17°♓40'53	
behind sun end	-11477 Jun 02 j 20:33	17°♓42'54	
max. Earth dist.	-11477 Jun 01 j 15:34	17°♓38'19	19.25958 AU
morning rise	-11477 Jun 18 j 12:36	18°♓42'25	
retrograde	-11477 Sep 17 j 11:09	22°♓04'42	
opposition	-11477 Nov 30 j 07:26	20°♓02'49	-0°01'24
min. Earth dist.	-11477 Dec 01 j 03:17	20°♓00'41	17.26980 AU
asc. node	-11476 Feb 13 j 05:52	17°♓56'33	
direct	-11476 Feb 15 j 10:59	17°♓56'25	
evening set	-11476 May 21 j 13:08	21°♓27'59	
conjunction	-11476 Jun 06 j 14:33	22°♓28'54	0°01'54
minimum elong	-11476 Jun 06 j 14:33	22°♓28'54	0°01'46

Attention, astronomical year style is used: The year -11476 in astronomical counting style is the year 11477 BCE in historical counting style.

behind sun begin	-11476 Jun 06 j 07:56	22°♓27'52		
behind sun end	-11476 Jun 06 j 21:11	22°♓29'56		
max. Earth dist.	-11476 Jun 05 j 17:38	22°♓25'34	19.28132 AU	
morning rise	-11476 Jun 22 j 12:04	23°♓29'14		
retrograde	-11476 Sep 21 j 11:00	26°♓51'25		
opposition	-11476 Dec 04 j 11:30	24°♓49'36	0°05'19	
min. Earth dist.	-11476 Dec 05 j 05:04	24°♓47'43	17.29493 AU	
direct	-11475 Feb 19 j 15:15	22°♓43'28		
evening set	-11475 May 26 j 14:20	26°♓14'30		
conjunction	-11475 Jun 11 j 14:36	27°♓15'11	0°07'53	
minimum elong	-11475 Jun 11 j 14:36	27°♓15'11	0°07'49	
behind sun begin	-11475 Jun 11 j 08:38	27°♓14'16		
behind sun end	-11475 Jun 11 j 20:34	27°♓16'07		
max. Earth dist.	-11475 Jun 10 j 21:13	27°♓12'25	19.30982 AU	
morning rise	-11475 Jun 27 j 10:56	28°♓15'18		
	-11475 Jul 28 j 00:49	0°♈		
retrograde	-11475 Sep 26 j 11:57	1°♈37'20		
	-11475 Nov 30 j 02:06	30°℞♓		
opposition	-11475 Dec 09 j 15:43	29°♓35'38	0°11'59	
min. Earth dist.	-11475 Dec 10 j 06:38	29°♓34'03	17.32642 AU	
direct	-11474 Feb 24 j 21:18	27°♓29'52		
	-11474 May 14 j 19:41	0°♈		
evening set	-11474 May 31 j 14:51	1°♈00'13		
conjunction	-11474 Jun 16 j 13:46	2°♈00'39	0°13'48	
minimum elong	-11474 Jun 16 j 13:46	2°♈00'39	0°13'46	
behind sun begin	-11474 Jun 16 j 10:11	2°♈00'05		
behind sun end	-11474 Jun 16 j 17:21	2°♈01'12		
max. Earth dist.	-11474 Jun 15 j 22:24	1°♈58'13	19.34439 AU	
morning rise	-11474 Jul 02 j 09:08	3°♈00'33		
retrograde	-11474 Oct 01 j 10:45	6°♈22'24		
opposition	-11474 Dec 14 j 19:50	4°♈20'49	0°18'33	
min. Earth dist.	-11474 Dec 15 j 08:51	4°♈19'26	17.36385 AU	
direct	-11473 Mar 02 j 00:59	2°♈15'24		
evening set	-11473 Jun 05 j 14:41	5°♈45'00		
conjunction	-11473 Jun 21 j 12:26	6°♈45'10	0°19'37	
minimum elong	-11473 Jun 21 j 12:26	6°♈45'10	0°19'39	
max. Earth dist.	-11473 Jun 21 j 00:09	6°♈43'13	19.38447 AU	
morning rise	-11473 Jul 07 j 06:45	7°♈44'50		
retrograde	-11473 Oct 06 j 10:54	11°♈06'26		
opposition	-11473 Dec 19 j 23:36	9°♈05'00	0°24'58	
min. Earth dist.	-11473 Dec 20 j 09:41	9°♈03'56	17.40623 AU	
direct	-11472 Mar 06 j 06:49	6°♈59'58		
evening set	-11472 Jun 09 j 13:52	10°♈28'41		
conjunction	-11472 Jun 25 j 10:22	11°♈28'34	0°25'16	
minimum elong	-11472 Jun 25 j 10:22	11°♈28'34	0°25'21	
max. Earth dist.	-11472 Jun 25 j 00:20	11°♈26'59	19.42912 AU	
morning rise	-11472 Jul 11 j 03:43	12°♈28'00		
retrograde	-11472 Oct 10 j 08:40	15°♈49'19		
opposition	-11472 Dec 24 j 03:28	13°♈47'59	0°31'11	
min. Earth dist.	-11472 Dec 24 j 11:56	13°♈47'06	17.45307 AU	
direct	-11471 Mar 11 j 09:31	11°♈43'21		
evening set	-11471 Jun 14 j 12:03	15°♈11'05		
conjunction	-11471 Jun 30 j 07:25	16°♈10'40	0°30'44	
minimum elong	-11471 Jun 30 j 07:24	16°♈10'40	0°30'52	
max. Earth dist.	-11471 Jun 30 j 00:03	16°♈09'30	19.47793 AU	
morning rise	-11471 Jul 15 j 23:54	17°♈09'50		
retrograde	-11471 Oct 15 j 08:14	20°♈30'48		
opposition	-11471 Dec 29 j 06:54	18°♈29'36	0°37'09	
min. Earth dist.	-11471 Dec 29 j 12:02	18°♈29'03	17.50359 AU	
direct	-11470 Mar 16 j 13:51	16°♈25'20		
evening set	-11470 Jun 19 j 09:29	19°♈52'00		

conjunction	-11470 Jul 05 j 03:47	20°♈51'17	0°35'58	
minimum elong	-11470 Jul 05 j 03:46	20°♈51'17	0°36'09	
max. Earth dist.	-11470 Jul 04 j 23:02	20°♈50'32	19.53007 AU	
morning rise	-11470 Jul 20 j 19:25	21°♈50'11		
retrograde	-11470 Oct 20 j 05:10	25°♈10'45		
opposition	-11469 Jan 03 j 09:53	23°♈09'37	0°42'50	
min. Earth dist.	-11469 Jan 03 j 13:37	23°♈09'14	17.55738 AU	
direct	-11469 Mar 21 j 15:13	21°♈05'44		
evening set	-11469 Jun 24 j 05:56	24°♈31'15		
conjunction	-11469 Jul 09 j 23:13	25°♈30'12	0°40'55	
minimum elong	-11469 Jul 09 j 23:12	25°♈30'12	0°41'09	
max. Earth dist.	-11469 Jul 09 j 20:37	25°♈29'48	19.58533 AU	
morning rise	-11469 Jul 25 j 14:12	26°♈28'50		
retrograde	-11469 Oct 25 j 03:49	29°♈48'57		
opposition	-11468 Jan 08 j 12:15	27°♈47'54	0°48'11	
min. Earth dist.	-11468 Jan 08 j 12:32	27°♈47'52	17.61394 AU	
direct	-11468 Mar 25 j 17:41	25°♈44'22		
evening set	-11468 Jun 28 j 01:20	29°♈08'38		
	-11468 Jul 11 j 19:23	0°♉		
conjunction	-11468 Jul 13 j 17:42	0°♉07'17	0°45'35	
minimum elong	-11468 Jul 13 j 17:42	0°♉07'17	0°45'53	
max. Earth dist.	-11468 Jul 13 j 18:09	0°♉07'21	19.64315 AU	
morning rise	-11468 Jul 29 j 07:58	1°♉05'38		
retrograde	-11468 Oct 28 j 23:35	4°♉25'15		
opposition	-11467 Jan 12 j 14:15	2°♉24'14	0°53'12	
min. Earth dist.	-11467 Jan 12 j 13:04	2°♉24'22	17.67312 AU	
direct	-11467 Mar 30 j 18:02	0°♉21'04		
evening set	-11467 Jul 02 j 19:48	3°♉44'02		
conjunction	-11467 Jul 18 j 11:14	4°♉42'21	0°49'55	
minimum elong	-11467 Jul 18 j 11:14	4°♉42'21	0°50'15	
max. Earth dist.	-11467 Jul 18 j 13:41	4°♉42'44	19.70369 AU	
morning rise	-11467 Aug 03 j 01:04	5°♉40'26		
retrograde	-11467 Nov 02 j 21:15	8°♉59'31		
opposition	-11466 Jan 17 j 15:21	6°♉58'31	0°57'49	
min. Earth dist.	-11466 Jan 17 j 10:33	6°♉59'01	17.73495 AU	
direct	-11466 Apr 04 j 18:51	4°♉55'42		
evening set	-11466 Jul 07 j 13:02	8°♉17'17		
conjunction	-11466 Jul 23 j 03:50	9°♉15'18	0°53'54	
minimum elong	-11466 Jul 23 j 03:49	9°♉15'17	0°54'17	
max. Earth dist.	-11466 Jul 23 j 09:42	9°♉16'12	19.76673 AU	
morning rise	-11466 Aug 07 j 17:06	10°♉13'06		
retrograde	-11466 Nov 07 j 15:15	13°♉31'37		
opposition	-11465 Jan 22 j 15:51	11°♉30'38	1°02'03	
min. Earth dist.	-11465 Jan 22 j 09:26	11°♉31'18	17.79935 AU	
direct	-11465 Apr 09 j 18:16	9°♉28'11		
evening set	-11465 Jul 12 j 05:26	12°♉48'23		
conjunction	-11465 Jul 27 j 19:24	13°♉46'04	0°57'31	
minimum elong	-11465 Jul 27 j 19:24	13°♉46'04	0°57'56	
max. Earth dist.	-11465 Jul 28 j 03:07	13°♉47'16	19.83243 AU	
morning rise	-11465 Aug 12 j 08:25	14°♉43'36		
	-11465 Aug 16 j 21:31	15°♉		
retrograde	-11465 Nov 12 j 11:14	18°♉01'31		
opposition	-11464 Jan 27 j 15:18	16°♉00'34	1°05'51	
min. Earth dist.	-11464 Jan 27 j 05:18	16°♉01'36	17.86642 AU	
	-11464 Feb 22 j 04:45	15°℞♉		
direct	-11464 Apr 13 j 17:26	13°♉58'30		
	-11464 Jun 01 j 21:46	15°♉		
evening set	-11464 Jul 15 j 20:45	17°♉17'18		
conjunction	-11464 Jul 31 j 10:13	18°♉14'40	1°00'46	
minimum elong	-11464 Jul 31 j 10:13	18°♉14'40	1°01'13	
max. Earth dist.	-11464 Jul 31 j 21:35	18°♉16'25	19.90073 AU	

Attention, astronomical year style is used: The year -11464 in astronomical counting style is the year 11465 BCE in historical counting style.

morning rise	-11464 Aug 15 j 22:48	19°♉11'56	
retrograde	-11464 Nov 16 j 03:45	22°♉29'15	
opposition	-11463 Jan 31 j 14:14	20°♉28'22	1°09'14
min. Earth dist.	-11463 Jan 31 j 02:22	20°♉29'36	17.93608 AU
direct	-11463 Apr 18 j 15:08	18°♉26'43	
evening set	-11463 Jul 20 j 11:07	21°♉44'06	
conjunction	-11463 Aug 04 j 23:57	22°♉41'09	1°03'38
minimum elong	-11463 Aug 04 j 23:57	22°♉41'09	1°04'07
max. Earth dist.	-11463 Aug 05 j 13:01	22°♉43'10	19.97163 AU
morning rise	-11463 Aug 20 j 12:31	23°♉38'09	
retrograde	-11463 Nov 20 j 22:20	26°♉54'54	
opposition	-11462 Feb 05 j 12:14	24°♉54'06	1°12'10
min. Earth dist.	-11462 Feb 04 j 21:02	24°♉55'40	18.00816 AU
direct	-11462 Apr 23 j 12:04	22°♉52'52	
evening set	-11462 Jul 25 j 00:34	26°♉08'53	
conjunction	-11462 Aug 09 j 13:10	27°♉05'38	1°06'06
minimum elong	-11462 Aug 09 j 13:09	27°♉05'38	1°06'36
max. Earth dist.	-11462 Aug 10 j 05:46	27°♉08'11	20.04457 AU
morning rise	-11462 Aug 25 j 01:30	28°♉02'23	
	-11462 Sep 30 j 16:51	0°♊	
retrograde	-11462 Nov 25 j 13:26	1°♊18'31	
	-11461 Jan 23 j 20:41	30°℞♉	
opposition	-11461 Feb 10 j 09:17	29°♉17'51	1°14'40
min. Earth dist.	-11461 Feb 09 j 16:21	29°♉19'35	18.08193 AU
direct	-11461 Apr 28 j 07:32	27°♉17'05	
	-11461 Jul 20 j 12:27	0°♊	
evening set	-11461 Jul 29 j 13:14	0°♊31'44	
conjunction	-11461 Aug 14 j 01:23	1°♊28'11	1°08'10
minimum elong	-11461 Aug 14 j 01:22	1°♊28'11	1°08'44
max. Earth dist.	-11461 Aug 14 j 19:17	1°♊30'55	20.11899 AU
morning rise	-11461 Aug 29 j 13:53	2°♊24'42	
retrograde	-11461 Nov 30 j 06:41	5°♊40'15	
min. Earth dist.	-11460 Feb 14 j 09:59	3°♊41'43	18.15685 AU
opposition	-11460 Feb 15 j 05:37	3°♊39'43	1°16'43
direct	-11460 May 02 j 01:52	1°♊39'24	
evening set	-11460 Aug 02 j 00:52	4°♊52'42	
conjunction	-11460 Aug 17 j 12:57	5°♊48'54	1°09'50
minimum elong	-11460 Aug 17 j 12:57	5°♊48'54	1°10'24
max. Earth dist.	-11460 Aug 18 j 10:11	5°♊52'07	20.19402 AU
morning rise	-11460 Sep 02 j 01:24	6°♊45'10	
retrograde	-11460 Dec 03 j 20:57	10°♊00'08	
min. Earth dist.	-11459 Feb 18 j 04:01	8°♊01'56	18.23191 AU
opposition	-11459 Feb 19 j 01:17	7°♊59'46	1°18'19
direct	-11459 May 06 j 19:39	5°♊59'55	
evening set	-11459 Aug 06 j 12:02	9°♊11'53	
conjunction	-11459 Aug 21 j 23:49	10°♊07'48	1°11'06
minimum elong	-11459 Aug 21 j 23:49	10°♊07'48	1°11'41
max. Earth dist.	-11459 Aug 22 j 21:57	10°♊11'09	20.26890 AU
morning rise	-11459 Sep 06 j 12:38	11°♊03'51	
retrograde	-11459 Dec 08 j 12:40	14°♊18'15	
opposition	-11458 Feb 23 j 20:00	12°♊18'02	1°19'27
min. Earth dist.	-11458 Feb 22 j 20:44	12°♊20'23	18.30654 AU
direct	-11458 May 11 j 11:37	10°♊18'37	
evening set	-11458 Aug 10 j 22:17	13°♊29'16	
conjunction	-11458 Aug 26 j 10:14	14°♊24'57	1°11'56
minimum elong	-11458 Aug 26 j 10:14	14°♊24'57	1°12'33
max. Earth dist.	-11458 Aug 27 j 11:10	14°♊28'43	20.34278 AU
morning rise	-11458 Sep 10 j 23:11	15°♊20'48	
retrograde	-11458 Dec 13 j 02:17	18°♊34'36	
opposition	-11457 Feb 28 j 13:54	16°♊34'31	1°20'08
min. Earth dist.	-11457 Feb 27 j 13:15	16°♊37'01	18.37961 AU
direct	-11457 May 16 j 03:55	14°♊35'32	
evening set	-11457 Aug 15 j 08:01	17°♊44'55	
conjunction	-11457 Aug 30 j 19:51	18°♊40'21	1°12'23
minimum elong	-11457 Aug 30 j 19:51	18°♊40'21	1°12'59
max. Earth dist.	-11457 Aug 31 j 21:12	18°♊44'09	20.41483 AU
morning rise	-11457 Sep 15 j 09:18	19°♊36'00	
retrograde	-11457 Dec 17 j 16:07	22°♊49'14	
min. Earth dist.	-11456 Mar 03 j 04:59	20°♊51'53	18.45066 AU
opposition	-11456 Mar 04 j 07:00	20°♊49'16	1°20'22
direct	-11456 May 19 j 17:45	18°♊50'38	
evening set	-11456 Aug 18 j 16:56	21°♊58'47	
conjunction	-11456 Sep 03 j 05:06	22°♊54'00	1°12'25
minimum elong	-11456 Sep 03 j 05:06	22°♊54'00	1°13'03
max. Earth dist.	-11456 Sep 04 j 08:51	22°♊58'09	20.48454 AU
morning rise	-11456 Sep 18 j 18:50	23°♊49'28	
retrograde	-11456 Dec 21 j 04:52	27°♊02'06	
opposition	-11455 Mar 08 j 23:14	25°♊02'14	1°20'09
min. Earth dist.	-11455 Mar 07 j 19:54	25°♊04'59	18.51898 AU
direct	-11455 May 24 j 08:34	23°♊03'58	
evening set	-11455 Aug 23 j 01:16	26°♊10'52	
conjunction	-11455 Sep 07 j 13:33	27°♊05'53	1°12'04
minimum elong	-11455 Sep 07 j 13:33	27°♊05'53	1°12'41
max. Earth dist.	-11455 Sep 08 j 17:25	27°♊10'02	20.55140 AU
morning rise	-11455 Sep 23 j 04:02	28°♊01'12	
	-11455 Oct 31 j 15:14	0°♋	
retrograde	-11455 Dec 25 j 17:15	1°♋13'15	
	-11454 Feb 21 j 19:08	30°℞♊	
min. Earth dist.	-11454 Mar 12 j 10:31	29°♊16'16	18.58443 AU
opposition	-11454 Mar 13 j 14:38	29°♊13'26	1°19'31
direct	-11454 May 28 j 20:36	27°♊15'28	
	-11454 Aug 21 j 04:38	0°♋	
evening set	-11454 Aug 27 j 08:51	0°♋21'11	
conjunction	-11454 Sep 11 j 21:40	1°♋16'01	1°11'20
minimum elong	-11454 Sep 11 j 21:40	1°♋16'01	1°11'59
max. Earth dist.	-11454 Sep 13 j 03:38	1°♋20'27	20.61523 AU
morning rise	-11454 Sep 27 j 12:36	2°♋11'10	
retrograde	-11454 Dec 30 j 04:39	5°♋22'37	
min. Earth dist.	-11453 Mar 16 j 23:30	3°♋25'48	18.64669 AU
opposition	-11453 Mar 18 j 04:51	3°♋22'51	1°18'29
direct	-11453 Jun 02 j 09:22	1°♋25'09	
evening set	-11453 Aug 31 j 15:54	4°♋29'44	
conjunction	-11453 Sep 16 j 04:59	5°♋24'23	1°10'14
minimum elong	-11453 Sep 16 j 04:59	5°♋24'23	1°10'52
max. Earth dist.	-11453 Sep 17 j 10:58	5°♋28'48	20.67604 AU
morning rise	-11453 Oct 01 j 20:47	6°♋19'24	
retrograde	-11452 Jan 03 j 15:46	9°♋30'17	
opposition	-11452 Mar 21 j 18:27	7°♋30'32	1°17'02
min. Earth dist.	-11452 Mar 20 j 12:36	7°♋33'32	18.70619 AU
direct	-11452 Jun 05 j 19:54	5°♋33'04	
evening set	-11452 Sep 03 j 22:04	8°♋36'33	
conjunction	-11452 Sep 19 j 11:50	9°♋31'03	1°08'47
minimum elong	-11452 Sep 19 j 11:50	9°♋31'03	1°09'26
max. Earth dist.	-11452 Sep 20 j 19:55	9°♋35'46	20.73414 AU
morning rise	-11452 Oct 05 j 04:13	10°♋25'57	
retrograde	-11451 Jan 07 j 02:18	13°♋36'17	
min. Earth dist.	-11451 Mar 24 j 23:51	11°♋39'41	18.76296 AU
opposition	-11451 Mar 26 j 07:06	11°♋36'33	1°15'13
direct	-11451 Jun 10 j 06:40	9°♋39'19	
evening set	-11451 Sep 08 j 04:02	12°♋41'46	
conjunction	-11451 Sep 23 j 18:13	13°♋36'08	1°07'00

Attention, astronomical year style is used: The year -11451 in astronomical counting style is the year 11452 BCE in historical counting style.

minimum elong	-11451 Sep 23 j 18:13	13°♋36'08	1°07'38
max. Earth dist.	-11451 Sep 25 j 02:15	13°♋40'49	20.78967 AU
morning rise	-11451 Oct 09 j 11:36	14°♋30'56	
retrograde	-11450 Jan 11 j 12:24	17°♋40'44	
min. Earth dist.	-11450 Mar 29 j 11:27	15°♋44'10	18.81738 AU
opposition	-11450 Mar 30 j 18:52	15°♋41'01	1°13'02
direct	-11450 Jun 14 j 15:28	13°♋44'00	
evening set	-11450 Sep 12 j 09:23	16°♋45'31	
conjunction	-11450 Sep 28 j 00:24	17°♋39'47	1°04'54
minimum elong	-11450 Sep 28 j 00:24	17°♋39'47	1°05'31
max. Earth dist.	-11450 Sep 29 j 10:13	17°♋44'42	20.84280 AU
morning rise	-11450 Oct 13 j 18:29	18°♋34'28	
retrograde	-11449 Jan 15 j 22:29	21°♋43'47	
min. Earth dist.	-11449 Apr 02 j 21:08	19°♋47'25	18.86918 AU
opposition	-11449 Apr 04 j 05:50	19°♋44'08	1°10'31
direct	-11449 Jun 19 j 00:37	17°♋47'21	
evening set	-11449 Sep 16 j 14:23	20°♋48'00	
conjunction	-11449 Oct 02 j 05:56	21°♋42'09	1°02'29
minimum elong	-11449 Oct 02 j 05:57	21°♋42'09	1°03'06
max. Earth dist.	-11449 Oct 03 j 15:30	21°♋47'01	20.89328 AU
morning rise	-11449 Oct 18 j 01:06	22°♋36'47	
retrograde	-11448 Jan 20 j 07:32	25°♋45'40	
min. Earth dist.	-11448 Apr 06 j 07:45	23°♋49'19	18.91835 AU
opposition	-11448 Apr 07 j 16:16	23°♋46'04	1°07'39
direct	-11448 Jun 22 j 07:54	21°♋49'31	
evening set	-11448 Sep 19 j 19:02	24°♋49'21	
conjunction	-11448 Oct 05 j 11:33	25°♋43'26	0°59'46
minimum elong	-11448 Oct 05 j 11:33	25°♋43'26	1°00'22
max. Earth dist.	-11448 Oct 06 j 22:37	25°♋48'31	20.94098 AU
morning rise	-11448 Oct 21 j 07:31	26°♋38'00	
retrograde	-11447 Jan 23 j 17:43	29°♋46'29	
min. Earth dist.	-11447 Apr 10 j 16:24	27°♋50'19	18.96437 AU
opposition	-11447 Apr 12 j 01:52	27°♋46'58	1°04'28
direct	-11447 Jun 26 j 15:57	25°♋50'39	
evening set	-11447 Sep 23 j 23:36	28°♋49'46	
conjunction	-11447 Oct 09 j 16:49	29°♋43'47	0°56'46
minimum elong	-11447 Oct 09 j 16:49	29°♋43'47	0°57'22
max. Earth dist.	-11447 Oct 11 j 03:14	29°♋48'45	20.98530 AU
	-11447 Oct 14 j 09:14	0°♌	
morning rise	-11447 Oct 25 j 13:59	0°♌38'19	
retrograde	-11446 Jan 28 j 01:47	3°♌46'26	
min. Earth dist.	-11446 Apr 15 j 02:22	1°♌50'16	19.00684 AU
opposition	-11446 Apr 16 j 11:00	1°♌47'00	1°00'59
	-11446 Jun 11 j 22:19	30°℞♋	
direct	-11446 Jun 30 j 21:44	29°♋50'53	
	-11446 Jul 19 j 17:29	0°♌	
evening set	-11446 Sep 28 j 03:56	2°♌49'22	
conjunction	-11446 Oct 13 j 22:11	3°♌43'20	0°53'30
minimum elong	-11446 Oct 13 j 22:12	3°♌43'20	0°54'03
max. Earth dist.	-11446 Oct 15 j 09:34	3°♌48'26	21.02572 AU
morning rise	-11446 Oct 29 j 20:12	4°♌37'51	
retrograde	-11445 Feb 01 j 11:31	7°♌45'37	
min. Earth dist.	-11445 Apr 19 j 10:13	5°♌49'35	19.04499 AU
opposition	-11445 Apr 20 j 19:19	5°♌46'16	0°57'12
direct	-11445 Jul 05 j 05:07	3°♌50'21	
evening set	-11445 Oct 02 j 08:22	6°♌48'17	
conjunction	-11445 Oct 18 j 03:22	7°♌42'13	0°49'59
minimum elong	-11445 Oct 18 j 03:22	7°♌42'13	0°50'31
max. Earth dist.	-11445 Oct 19 j 13:34	7°♌47'07	21.06160 AU
morning rise	-11445 Nov 03 j 02:37	8°♌36'44	
retrograde	-11444 Feb 05 j 18:57	11°♌44'12	
min. Earth dist.	-11444 Apr 22 j 19:39	9°♌48'05	19.07847 AU
opposition	-11444 Apr 24 j 03:24	9°♌44'55	0°53'10
direct	-11444 Jul 08 j 09:33	7°♌49'08	
evening set	-11444 Oct 05 j 12:31	10°♌46'34	
conjunction	-11444 Oct 21 j 08:41	11°♌40'30	0°46'13
minimum elong	-11444 Oct 21 j 08:41	11°♌40'30	0°46'43
max. Earth dist.	-11444 Oct 22 j 19:19	11°♌45'27	21.09250 AU
morning rise	-11444 Nov 06 j 08:52	12°♌35'01	
	-11444 Dec 28 j 17:57	15°♌	
retrograde	-11443 Feb 09 j 03:53	15°♌42'13	
	-11443 Mar 24 j 12:44	15°℞♌	
min. Earth dist.	-11443 Apr 27 j 03:02	13°♌46'10	19.10652 AU
opposition	-11443 Apr 28 j 10:52	13°♌42'59	0°48'53
direct	-11443 Jul 12 j 16:39	11°♌47'18	
evening set	-11443 Oct 09 j 17:02	14°♌44'19	
	-11443 Oct 14 j 09:01	15°♌	
conjunction	-11443 Oct 25 j 14:03	15°♌38'15	0°42'15
minimum elong	-11443 Oct 25 j 14:04	15°♌38'15	0°42'43
max. Earth dist.	-11443 Oct 26 j 22:56	15°♌42'57	21.11772 AU
morning rise	-11443 Nov 10 j 15:31	16°♌32'48	
retrograde	-11442 Feb 13 j 11:14	19°♌39'45	
min. Earth dist.	-11442 May 01 j 11:55	17°♌43'31	19.12881 AU
opposition	-11442 May 02 j 17:54	17°♌40'31	0°44'22
direct	-11442 Jul 16 j 20:21	15°♌44'53	
evening set	-11442 Oct 13 j 21:21	18°♌41'32	
conjunction	-11442 Oct 29 j 19:36	19°♌35'31	0°38'05
minimum elong	-11442 Oct 29 j 19:37	19°♌35'31	0°38'33
max. Earth dist.	-11442 Oct 31 j 04:23	19°♌40'11	21.13706 AU
morning rise	-11442 Nov 14 j 22:02	20°♌30'05	
retrograde	-11441 Feb 17 j 19:12	23°♌36'49	
min. Earth dist.	-11441 May 05 j 18:38	21°♌40'34	19.14502 AU
opposition	-11441 May 07 j 00:27	21°♌37'34	0°39'40
direct	-11441 Jul 21 j 02:42	19°♌41'57	
evening set	-11441 Oct 18 j 01:42	22°♌38'18	
conjunction	-11441 Nov 03 j 00:51	23°♌32'19	0°33'45
minimum elong	-11441 Nov 03 j 00:52	23°♌32'19	0°34'10
max. Earth dist.	-11441 Nov 04 j 07:41	23°♌36'41	21.15036 AU
morning rise	-11441 Nov 19 j 04:35	24°♌26'56	
retrograde	-11440 Feb 22 j 02:21	27°♌33'29	
min. Earth dist.	-11440 May 09 j 02:58	25°♌36'58	19.15541 AU
opposition	-11440 May 10 j 06:48	25°♌34'10	0°34'47
direct	-11440 Jul 24 j 06:12	23°♌38'30	
evening set	-11440 Oct 21 j 06:05	26°♌34'38	
conjunction	-11440 Nov 06 j 06:31	27°♌28'43	0°29'16
minimum elong	-11440 Nov 06 j 06:32	27°♌28'43	0°29'40
max. Earth dist.	-11440 Nov 07 j 13:11	27°♌33'04	21.15803 AU
morning rise	-11440 Nov 22 j 11:15	28°♌23'24	
	-11440 Dec 24 j 07:18	0°♍	
retrograde	-11439 Feb 25 j 09:49	1°♍29'47	
	-11439 May 02 j 03:06	30°℞♌	
min. Earth dist.	-11439 May 13 j 08:52	29°♌33'10	19.16028 AU
opposition	-11439 May 14 j 12:26	29°♌30'24	0°29'45
direct	-11439 Jul 28 j 11:30	27°♌34'39	
	-11439 Oct 16 j 00:24	0°♍	
evening set	-11439 Oct 25 j 10:46	0°♍30'38	
conjunction	-11439 Nov 10 j 12:10	1°♍24'47	0°24'40
minimum elong	-11439 Nov 10 j 12:10	1°♍24'47	0°25'00
max. Earth dist.	-11439 Nov 11 j 16:46	1°♍28'50	21.16038 AU
morning rise	-11439 Nov 26 j 18:11	2°♍19'34	
retrograde	-11438 Mar 01 j 16:29	5°♍25'50	
opposition	-11438 May 18 j 17:56	3°♍26'21	0°24'36

Attention, astronomical year style is used: The year -11438 in astronomical counting style is the year 11439 BCE in historical counting style.

min. Earth dist.	-11438 May 17 j 16:29	3°♑28'55	19.16018 AU
direct	-11438 Aug 01 j 14:50	1°♑30'30	
evening set	-11438 Oct 29 j 15:24	4°♑26'26	
conjunction	-11438 Nov 14 j 18:03	5°♑20'41	0°19'57
minimum elong	-11438 Nov 14 j 18:03	5°♑20'41	0°20'15
max. Earth dist.	-11438 Nov 15 j 22:27	5°♑24'42	21.15797 AU
morning rise	-11438 Dec 01 j 01:00	6°♑15'33	
retrograde	-11437 Mar 06 j 00:07	9°♑21'45	
opposition	-11437 May 22 j 22:55	7°♑22'12	0°19'20
min. Earth dist.	-11437 May 21 j 21:42	7°♑24'45	19.15547 AU
direct	-11437 Aug 05 j 19:25	5°♑26'15	
evening set	-11437 Nov 02 j 20:27	8°♑22'13	
conjunction	-11437 Nov 19 j 00:02	9°♑16'35	0°15'09
minimum elong	-11437 Nov 19 j 00:03	9°♑16'35	0°15'25
behind sun begin	-11437 Nov 18 j 22:16	9°♑16'20	
behind sun end	-11437 Nov 19 j 01:49	9°♑16'49	
max. Earth dist.	-11437 Nov 20 j 02:22	9°♑20'18	21.15119 AU
morning rise	-11437 Dec 05 j 08:14	10°♑11'34	
retrograde	-11436 Mar 09 j 06:24	13°♑17'45	
min. Earth dist.	-11436 May 25 j 04:52	11°♑20'28	19.14666 AU
opposition	-11436 May 26 j 03:54	11°♑18'08	0°13'59
direct	-11436 Aug 08 j 22:16	9°♑22'04	
evening set	-11436 Nov 06 j 01:36	12°♑18'10	
conjunction	-11436 Nov 22 j 06:31	13°♑12'40	0°10'17
minimum elong	-11436 Nov 22 j 06:31	13°♑12'40	0°10'30
behind sun begin	-11436 Nov 22 j 01:20	13°♑11'57	
behind sun end	-11436 Nov 22 j 11:42	13°♑13'22	
max. Earth dist.	-11436 Nov 23 j 08:26	13°♑16'19	21.14042 AU
morning rise	-11436 Dec 08 j 15:39	14°♑07'46	
retrograde	-11435 Mar 13 j 14:50	17°♑13'59	
min. Earth dist.	-11435 May 29 j 09:58	15°♑16'37	19.13376 AU
opposition	-11435 May 30 j 08:36	15°♑14'19	0°08'33
direct	-11435 Aug 13 j 02:53	13°♑18'09	
evening set	-11435 Nov 10 j 07:26	16°♑14'29	
conjunction	-11435 Nov 26 j 13:18	17°♑09'07	0°05'22
minimum elong	-11435 Nov 26 j 13:18	17°♑09'07	0°05'34
behind sun begin	-11435 Nov 26 j 06:53	17°♑08'14	
behind sun end	-11435 Nov 26 j 19:43	17°♑10'00	
max. Earth dist.	-11435 Nov 27 j 12:49	17°♑12'26	21.12554 AU
morning rise	-11435 Dec 12 j 23:38	18°♑04'22	
retrograde	-11434 Mar 17 j 21:01	21°♑10'41	
opposition	-11434 Jun 03 j 13:16	19°♑10'59	0°03'04
min. Earth dist.	-11434 Jun 02 j 17:06	19°♑13'02	19.11685 AU
direct	-11434 Aug 17 j 05:13	17°♑14'42	
evening set	-11434 Nov 14 j 13:31	20°♑11'21	
conjunction	-11434 Nov 30 j 20:38	21°♑06'08	0°00'21
minimum elong	-11434 Nov 30 j 20:39	21°♑06'09	0°00'29
behind sun begin	-11434 Nov 30 j 13:59	21°♑05'14	
behind sun end	-11434 Dec 01 j 03:19	21°♑07'03	
max. Earth dist.	-11434 Dec 01 j 19:25	21°♑09'21	21.10668 AU
morning rise	-11434 Dec 17 j 07:50	22°♑01'32	
desc. node	-11434 Dec 25 j 16:31	22°♑28'42	
retrograde	-11433 Mar 22 j 06:03	25°♑08'00	
opposition	-11433 Jun 07 j 17:54	23°♑08'17	-0°02'27
min. Earth dist.	-11433 Jun 06 j 22:20	23°♑10'17	19.09580 AU
direct	-11433 Aug 21 j 10:11	21°♑11'52	
evening set	-11433 Nov 18 j 20:10	24°♑08'55	
conjunction	-11433 Dec 05 j 04:14	25°♑03'53	-0°04'45
minimum elong	-11433 Dec 05 j 04:13	25°♑03'53	0°04'38
behind sun begin	-11433 Dec 04 j 21:40	25°♑02'59	
behind sun end	-11433 Dec 05 j 10:46	25°♑04'47	

max. Earth dist.	-11433 Dec 06 j 00:23	25°♑06'44	21.08352 AU
morning rise	-11433 Dec 21 j 16:32	25°♑59'26	
retrograde	-11432 Mar 25 j 12:45	29°♑06'07	
opposition	-11432 Jun 10 j 22:46	27°♑06'23	-0°07'59
min. Earth dist.	-11432 Jun 10 j 05:58	27°♑08'05	19.07042 AU
direct	-11432 Aug 24 j 12:46	25°♑09'49	
evening set	-11432 Nov 22 j 03:27	28°♑07'20	
conjunction	-11432 Dec 08 j 12:45	29°♑02'30	-0°09'43
minimum elong	-11432 Dec 08 j 12:44	29°♑02'30	0°09'40
behind sun begin	-11432 Dec 08 j 07:15	29°♑01'45	
behind sun end	-11432 Dec 08 j 18:14	29°♑03'16	
max. Earth dist.	-11432 Dec 09 j 07:42	29°♑05'11	21.05591 AU
morning rise	-11432 Dec 25 j 01:52	29°♑58'13	
	-11432 Dec 25 j 14:47	0°♎	
retrograde	-11431 Mar 29 j 22:23	3°♎05'07	
min. Earth dist.	-11431 Jun 14 j 11:40	1°♎06'59	19.04034 AU
opposition	-11431 Jun 15 j 03:26	1°♎05'22	-0°13'29
	-11431 Jul 13 j 08:44	30°℞♑	
direct	-11431 Aug 28 j 18:08	29°♑08'38	
	-11431 Oct 12 j 22:43	0°♎	
evening set	-11431 Nov 26 j 11:39	2°♎06'44	
conjunction	-11431 Dec 12 j 21:48	3°♎02'05	-0°14'40
minimum elong	-11431 Dec 12 j 21:48	3°♎02'05	0°14'39
behind sun begin	-11431 Dec 12 j 19:10	3°♎01'43	
behind sun end	-11431 Dec 13 j 00:26	3°♎02'27	
max. Earth dist.	-11431 Dec 13 j 13:35	3°♎04'19	21.02334 AU
morning rise	-11431 Dec 29 j 11:55	3°♎58'00	
retrograde	-11430 Apr 03 j 06:02	7°♎05'09	
opposition	-11430 Jun 19 j 08:35	5°♎05'21	-0°18'57
min. Earth dist.	-11430 Jun 18 j 19:55	5°♎06'39	19.00524 AU
direct	-11430 Sep 01 j 21:30	3°♎08'24	
evening set	-11430 Nov 30 j 20:13	6°♎07'07	
conjunction	-11430 Dec 17 j 07:30	7°♎02'42	-0°19'34
minimum elong	-11430 Dec 17 j 07:29	7°♎02'42	0°19'36
max. Earth dist.	-11430 Dec 17 j 21:38	7°♎04'41	20.98566 AU
morning rise	-11429 Jan 02 j 22:17	7°♎58'47	
retrograde	-11429 Apr 07 j 16:09	11°♎06'15	
opposition	-11429 Jun 23 j 13:45	9°♎06'22	-0°24'20
min. Earth dist.	-11429 Jun 23 j 02:16	9°♎07'33	18.96484 AU
direct	-11429 Sep 06 j 03:36	7°♎09'09	
evening set	-11429 Dec 05 j 05:41	10°♎08'34	
conjunction	-11429 Dec 21 j 17:48	11°♎04'21	-0°24'23
minimum elong	-11429 Dec 21 j 17:47	11°♎04'21	0°24'28
max. Earth dist.	-11429 Dec 22 j 04:33	11°♎05'52	20.94263 AU
morning rise	-11428 Jan 07 j 09:29	12°♎00'39	
retrograde	-11428 Apr 11 j 00:32	15°♎08'25	
opposition	-11428 Jun 26 j 19:16	13°♎08'25	-0°29'38
min. Earth dist.	-11428 Jun 26 j 11:03	13°♎09'16	18.91925 AU
direct	-11428 Sep 09 j 07:45	11°♎10'53	
evening set	-11428 Dec 08 j 15:43	14°♎11'02	
conjunction	-11428 Dec 25 j 04:57	15°♎07'04	-0°29'06
minimum elong	-11428 Dec 25 j 04:57	15°♎07'04	0°29'14
max. Earth dist.	-11428 Dec 25 j 13:46	15°♎08'19	20.89461 AU
morning rise	-11427 Jan 10 j 21:17	16°♎03'34	
retrograde	-11427 Apr 15 j 11:30	19°♎11'39	
opposition	-11427 Jul 01 j 00:55	17°♎11'31	-0°34'48
min. Earth dist.	-11427 Jun 30 j 17:59	17°♎12'14	18.86872 AU
direct	-11427 Sep 13 j 14:58	15°♎13'37	
evening set	-11427 Dec 13 j 02:38	18°♎14'35	
conjunction	-11427 Dec 29 j 16:36	19°♎10'51	-0°33'42
minimum elong	-11427 Dec 29 j 16:36	19°♎10'51	0°33'53

Attention, astronomical year style is used: The year -11426 in astronomical counting style is the year 11427 BCE in historical counting style.

max. Earth dist.	-11427 Dec 29 j 22:07	19°♎11'38	20.84180 AU
morning rise	-11426 Jan 15 j 09:39	20°♎07'34	
retrograde	-11426 Apr 19 j 20:15	23°♎16'00	
opposition	-11426 Jul 05 j 06:53	21°♎15'42	-0°39'48
min. Earth dist.	-11426 Jul 05 j 03:12	21°♎16'05	18.81389 AU
direct	-11426 Sep 17 j 19:55	19°♎17'25	
evening set	-11426 Dec 17 j 14:04	22°♎19'15	
conjunction	-11425 Jan 03 j 05:00	23°♎15'46	-0°38'08
minimum elong	-11425 Jan 03 j 04:59	23°♎15'46	0°38'21
max. Earth dist.	-11425 Jan 03 j 08:39	23°♎16'17	20.78518 AU
morning rise	-11425 Jan 19 j 22:33	24°♎12'42	
retrograde	-11425 Apr 24 j 08:08	27°♎21'30	
opposition	-11425 Jul 09 j 13:04	25°♎21'02	-0°44'38
min. Earth dist.	-11425 Jul 09 j 10:31	25°♎21'18	18.75555 AU
direct	-11425 Sep 22 j 03:57	23°♎22'20	
evening set	-11425 Dec 22 j 02:15	26°♎25'07	
conjunction	-11424 Jan 07 j 17:52	27°♎21'54	-0°42'24
minimum elong	-11424 Jan 07 j 17:52	27°♎21'54	0°42'40
max. Earth dist.	-11424 Jan 07 j 18:32	27°♎21'59	20.72528 AU
morning rise	-11424 Jan 24 j 12:02	28°♎19'03	
	-11424 Feb 26 j 11:02	0°♏	
retrograde	-11424 Apr 27 j 17:49	1°♏28'17	
	-11424 Jun 29 j 18:47	30°℞♎	
opposition	-11424 Jul 12 j 19:49	29°♎27'39	-0°49'16
min. Earth dist.	-11424 Jul 12 j 20:21	29°♎27'35	18.69437 AU
direct	-11424 Sep 25 j 10:08	27°♎28'31	
	-11424 Dec 15 j 19:52	0°♏	
evening set	-11424 Dec 25 j 15:17	0°♏32'19	
conjunction	-11423 Jan 11 j 07:44	1°♏29'22	-0°46'28
minimum elong	-11423 Jan 11 j 07:44	1°♏29'21	0°46'46
max. Earth dist.	-11423 Jan 11 j 06:27	1°♏29'10	20.66294 AU
morning rise	-11423 Jan 28 j 02:18	2°♏26'45	
retrograde	-11423 May 02 j 06:27	5°♏36'25	
opposition	-11423 Jul 17 j 02:43	3°♏35'38	-0°53'40
min. Earth dist.	-11423 Jul 17 j 04:20	3°♏35'28	18.63097 AU
direct	-11423 Sep 29 j 18:56	1°♏36'06	
evening set	-11423 Dec 30 j 05:16	4°♏40'59	
conjunction	-11422 Jan 15 j 22:17	5°♏38'19	-0°50'20
minimum elong	-11422 Jan 15 j 22:16	5°♏38'19	0°50'39
max. Earth dist.	-11422 Jan 15 j 18:09	5°♏37'43	20.59853 AU
morning rise	-11422 Feb 01 j 17:12	6°♏35'56	
retrograde	-11422 May 06 j 17:40	9°♏46'06	
opposition	-11422 Jul 21 j 10:27	7°♏45'12	-0°57'50
min. Earth dist.	-11422 Jul 21 j 14:59	7°♏44'43	18.56587 AU
direct	-11422 Oct 04 j 02:26	5°♏45'15	
evening set	-11421 Jan 03 j 19:48	8°♏51'18	
conjunction	-11421 Jan 20 j 13:28	9°♏48'54	-0°53'56
minimum elong	-11421 Jan 20 j 13:28	9°♏48'54	0°54'19
max. Earth dist.	-11421 Jan 20 j 07:21	9°♏48'01	20.53277 AU
morning rise	-11421 Feb 06 j 08:41	10°♏46'47	
retrograde	-11421 May 11 j 07:21	13°♏57'29	
opposition	-11421 Jul 25 j 18:34	11°♏56'29	-1°01'43
min. Earth dist.	-11421 Jul 26 j 00:03	11°♏55'54	18.49950 AU
direct	-11421 Oct 08 j 12:14	9°♏56'09	
evening set	-11420 Jan 08 j 11:29	13°♏03'26	
conjunction	-11420 Jan 25 j 05:39	14°♏01'19	-0°57'18
minimum elong	-11420 Jan 25 j 05:39	14°♏01'19	0°57'42
max. Earth dist.	-11420 Jan 24 j 20:55	14°♏00'03	20.46576 AU
morning rise	-11420 Feb 11 j 01:04	14°♏59'26	
	-11420 Feb 11 j 05:02	15°♏	
retrograde	-11420 May 14 j 20:12	18°♏10'43	
opposition	-11420 Jul 29 j 03:22	16°♏09'39	-1°05'18
min. Earth dist.	-11420 Jul 29 j 11:49	16°♏08'45	18.43206 AU
	-11420 Aug 27 j 07:28	15°℞♏	
direct	-11420 Oct 11 j 21:04	14°♏08'57	
	-11420 Nov 25 j 19:33	15°♏	
evening set	-11419 Jan 12 j 04:09	17°♏17'31	
conjunction	-11419 Jan 28 j 22:50	18°♏15'43	-1°00'22
minimum elong	-11419 Jan 28 j 22:49	18°♏15'42	1°00'50
max. Earth dist.	-11419 Jan 28 j 11:44	18°♏14'06	20.39786 AU
morning rise	-11419 Feb 14 j 18:25	19°♏14'05	
retrograde	-11419 May 19 j 11:27	22°♏25'58	
opposition	-11419 Aug 02 j 12:49	20°♏24'50	-1°08'34
min. Earth dist.	-11419 Aug 02 j 22:24	20°♏23'49	18.36365 AU
direct	-11419 Oct 16 j 08:27	18°♏23'46	
evening set	-11418 Jan 16 j 21:50	21°♏33'42	
conjunction	-11418 Feb 02 j 16:51	22°♏32'11	-1°03'08
minimum elong	-11418 Feb 02 j 16:50	22°♏32'11	1°03'36
max. Earth dist.	-11418 Feb 02 j 03:17	22°♏30'12	20.32880 AU
morning rise	-11418 Feb 19 j 12:22	23°♏30'48	
retrograde	-11418 May 24 j 01:46	26°♏43'19	
opposition	-11418 Aug 06 j 23:09	24°♏42'09	-1°11'28
min. Earth dist.	-11418 Aug 07 j 11:42	24°♏40'49	18.29415 AU
direct	-11418 Oct 20 j 18:52	22°♏40'44	
evening set	-11417 Jan 21 j 16:30	25°♏52'03	
conjunction	-11417 Feb 07 j 11:48	26°♏50'50	-1°05'33
minimum elong	-11417 Feb 07 j 11:47	26°♏50'50	1°06'04
max. Earth dist.	-11417 Feb 06 j 19:33	26°♏48'26	20.25879 AU
morning rise	-11417 Feb 24 j 07:21	27°♏49'41	
	-11417 Apr 08 j 16:01	0°♐	
retrograde	-11417 May 28 j 18:21	1°♐02'51	
	-11417 Jul 18 j 15:58	30°℞♏	
opposition	-11417 Aug 11 j 10:07	29°♏01'38	-1°14'00
min. Earth dist.	-11417 Aug 11 j 23:57	29°♏00'09	18.22361 AU
direct	-11417 Oct 25 j 08:10	26°♏59'50	
	-11416 Jan 22 j 20:06	0°♐	
evening set	-11416 Jan 26 j 12:08	0°♐12'34	
conjunction	-11416 Feb 12 j 07:43	1°♐11'39	-1°07'37
minimum elong	-11416 Feb 12 j 07:43	1°♐11'39	1°08'10
max. Earth dist.	-11416 Feb 11 j 13:08	1°♐08'54	20.18748 AU
morning rise	-11416 Feb 29 j 03:04	2°♐10'45	
retrograde	-11416 Jun 01 j 10:02	5°♐24'34	
opposition	-11416 Aug 14 j 22:08	3°♐23'17	-1°16'07
min. Earth dist.	-11416 Aug 15 j 14:56	3°♐21'29	18.15176 AU
direct	-11416 Oct 28 j 20:36	1°♐21'06	
evening set	-11415 Jan 30 j 08:54	4°♐35'15	
max. Earth dist.	-11415 Feb 15 j 06:52	5°♐31'24	20.11505 AU
conjunction	-11415 Feb 16 j 04:33	5°♐34'37	-1°09'19
minimum elong	-11415 Feb 16 j 04:33	5°♐34'37	1°09'52
morning rise	-11415 Mar 04 j 23:47	6°♐33'57	
retrograde	-11415 Jun 06 j 03:31	9°♐48'24	
opposition	-11415 Aug 19 j 10:47	7°♐47'02	-1°17'48
min. Earth dist.	-11415 Aug 20 j 04:57	7°♐45'05	18.07887 AU
direct	-11415 Nov 02 j 12:33	5°♐44'24	
evening set	-11414 Feb 04 j 06:28	9°♐00'00	
max. Earth dist.	-11414 Feb 20 j 02:42	9°♐56'08	20.04165 AU
conjunction	-11414 Feb 21 j 02:16	9°♐59'39	-1°10'36
minimum elong	-11414 Feb 21 j 02:15	9°♐59'39	1°11'12
morning rise	-11414 Mar 09 j 21:02	10°♐59'12	
retrograde	-11414 Jun 10 j 20:02	14°♐14'16	
opposition	-11414 Aug 24 j 00:29	12°♐12'48	-1°19'03
min. Earth dist.	-11414 Aug 24 j 21:15	12°♐10'34	18.00531 AU

Attention, astronomical year style is used: The year -11414 in astronomical counting style is the year 11415 BCE in historical counting style.

direct	-11414 Nov 07 j 03:00	10°♐09'44	
evening set	-11413 Feb 09 j 04:44	13°♐26'44	
max. Earth dist.	-11413 Feb 24 j 21:54	14°♐22'41	19.96808 AU
conjunction	-11413 Feb 26 j 00:24	14°♐26'39	-1°11'29
minimum elong	-11413 Feb 26 j 00:24	14°♐26'39	1°12'04
morning rise	-11413 Mar 14 j 18:59	15°♐26'26	
retrograde	-11413 Jun 15 j 14:34	18°♐42'07	
opposition	-11413 Aug 28 j 14:49	16°♐40'31	-1°19'49
min. Earth dist.	-11413 Aug 29 j 12:50	16°♐38'08	17.93193 AU
direct	-11413 Nov 11 j 21:33	14°♐36'59	
evening set	-11412 Feb 14 j 03:53	17°♐55'23	
conjunction	-11412 Mar 01 j 23:36	18°♐55'34	-1°11'56
minimum elong	-11412 Mar 01 j 23:36	18°♐55'34	1°12'33
max. Earth dist.	-11412 Feb 29 j 19:57	18°♐51'24	19.89493 AU
morning rise	-11412 Mar 18 j 17:34	19°♐55'33	
retrograde	-11412 Jun 19 j 07:54	23°♐11'49	
opposition	-11412 Sep 01 j 05:58	21°♐10'06	-1°20'07
min. Earth dist.	-11412 Sep 02 j 06:09	21°♐07'29	17.85937 AU
direct	-11412 Nov 15 j 14:19	19°♐06'07	
evening set	-11411 Feb 18 j 03:57	22°♐25'54	
conjunction	-11411 Mar 06 j 23:19	23°♐26'19	-1°11'57
minimum elong	-11411 Mar 06 j 23:18	23°♐26'19	1°12'34
max. Earth dist.	-11411 Mar 05 j 16:55	23°♐21'44	19.82317 AU
morning rise	-11411 Mar 23 j 16:54	24°♐26'31	
retrograde	-11411 Jun 24 j 03:31	27°♐43'22	
opposition	-11411 Sep 05 j 22:02	25°♐41'31	-1°19'55
min. Earth dist.	-11411 Sep 06 j 23:16	25°♐38'47	17.78868 AU
direct	-11411 Nov 20 j 10:29	23°♐37'05	
evening set	-11410 Feb 23 j 04:26	26°♐58'14	
conjunction	-11410 Mar 11 j 23:39	27°♐58'54	-1°11'31
minimum elong	-11410 Mar 11 j 23:39	27°♐58'54	1°12'09
max. Earth dist.	-11410 Mar 10 j 16:57	27°♐54'14	19.75354 AU
morning rise	-11410 Mar 28 j 16:26	28°♐59'16	
	-11410 Apr 15 j 10:48	0°♑	
retrograde	-11410 Jun 28 j 22:45	2°♑16'41	
opposition	-11410 Sep 10 j 15:02	0°♑14'45	-1°19'14
min. Earth dist.	-11410 Sep 11 j 17:41	0°♑11'51	17.72049 AU
	-11410 Sep 16 j 06:50	30°℞♐	
direct	-11410 Nov 25 j 05:37	28°♐09'53	
	-11409 Jan 31 j 10:00	0°♑	
evening set	-11409 Feb 28 j 05:48	1°♑32'22	
max. Earth dist.	-11409 Mar 15 j 15:27	2°♑28'13	19.68697 AU
conjunction	-11409 Mar 17 j 00:28	2°♑33'14	-1°10'38
minimum elong	-11409 Mar 17 j 00:28	2°♑33'14	1°11'17
morning rise	-11409 Apr 02 j 16:43	3°♑33'48	
retrograde	-11409 Jul 03 j 19:20	6°♑51'47	
opposition	-11409 Sep 15 j 08:45	4°♑49'45	-1°18'02
min. Earth dist.	-11409 Sep 16 j 12:15	4°♑46'45	17.65581 AU
direct	-11409 Nov 30 j 02:26	2°♑44'29	
evening set	-11408 Mar 04 j 07:41	6°♑08'17	
max. Earth dist.	-11408 Mar 19 j 17:15	7°♑04'21	19.62410 AU
conjunction	-11408 Mar 21 j 02:04	7°♑09'22	-1°09'19
minimum elong	-11408 Mar 21 j 02:04	7°♑09'22	1°09'56
morning rise	-11408 Apr 06 j 17:25	8°♑10'05	
retrograde	-11408 Jul 07 j 17:00	11°♑28'36	
opposition	-11408 Sep 19 j 03:33	9°♑26'32	-1°16'20
min. Earth dist.	-11408 Sep 20 j 07:49	9°♑23'27	17.59496 AU
direct	-11408 Dec 03 j 23:32	7°♑20'57	
evening set	-11407 Mar 09 j 10:22	10°♑46'00	
max. Earth dist.	-11407 Mar 24 j 17:18	11°♑41'56	19.56543 AU
conjunction	-11407 Mar 26 j 04:01	11°♑47'16	-1°07'31
minimum elong	-11407 Mar 26 j 04:01	11°♑47'16	1°08'10
morning rise	-11407 Apr 11 j 18:39	12°♑48'08	
retrograde	-11407 Jul 12 j 14:38	16°♑07'12	
opposition	-11407 Sep 23 j 23:13	14°♑05'06	-1°14'07
min. Earth dist.	-11407 Sep 25 j 04:16	14°♑01'55	17.53865 AU
direct	-11407 Dec 08 j 21:17	11°♑59'13	
evening set	-11406 Mar 14 j 13:27	15°♑25'29	
max. Earth dist.	-11406 Mar 29 j 20:32	16°♑21'40	19.51143 AU
conjunction	-11406 Mar 31 j 06:37	16°♑26'56	-1°05'17
minimum elong	-11406 Mar 31 j 06:37	16°♑26'56	1°05'55
morning rise	-11406 Apr 16 j 20:14	17°♑27'56	
retrograde	-11406 Jul 17 j 14:18	20°♑47'31	
opposition	-11406 Sep 28 j 19:51	18°♑45'26	-1°11'24
min. Earth dist.	-11406 Sep 30 j 01:02	18°♑42'14	17.48695 AU
direct	-11406 Dec 13 j 20:13	16°♑39'21	
evening set	-11405 Mar 19 j 17:06	20°♑06'45	
max. Earth dist.	-11405 Apr 03 j 22:01	21°♑02'51	19.46213 AU
conjunction	-11405 Apr 05 j 09:26	21°♑08'21	-1°02'36
minimum elong	-11405 Apr 05 j 09:26	21°♑08'21	1°03'12
morning rise	-11405 Apr 21 j 22:13	22°♑09'27	
retrograde	-11405 Jul 22 j 12:43	25°♑29'33	
opposition	-11405 Oct 03 j 17:23	23°♑27'30	-1°08'11
min. Earth dist.	-11405 Oct 04 j 23:30	23°♑24'12	17.44004 AU
direct	-11405 Dec 18 j 19:25	21°♑21'13	
evening set	-11404 Mar 23 j 21:16	24°♑49'43	
max. Earth dist.	-11404 Apr 08 j 02:03	25°♑46'00	19.41749 AU
conjunction	-11404 Apr 09 j 12:54	25°♑51'26	-0°59'28
minimum elong	-11404 Apr 09 j 12:54	25°♑51'26	1°00'04
morning rise	-11404 Apr 26 j 00:36	26°♑52'37	
	-11404 Jul 04 j 21:31	0°♒	
retrograde	-11404 Jul 26 j 13:25	0°♒13'10	
	-11404 Aug 17 j 07:58	30°℞♑	
opposition	-11404 Oct 07 j 15:45	28°♑11'11	-1°04'29
min. Earth dist.	-11404 Oct 08 j 21:39	28°♑07'55	17.39754 AU
direct	-11404 Dec 22 j 20:31	26°♑04'46	
evening set	-11403 Mar 29 j 01:59	29°♑34'14	
	-11403 Apr 05 j 01:29	0°♒	
max. Earth dist.	-11403 Apr 13 j 05:00	0°♒30'29	19.37719 AU
conjunction	-11403 Apr 14 j 16:38	0°♒36'03	-0°55'55
minimum elong	-11403 Apr 14 j 16:38	0°♒36'03	0°56'28
morning rise	-11403 May 01 j 03:16	1°♒37'18	
retrograde	-11403 Jul 31 j 12:36	4°♒58'18	
opposition	-11403 Oct 12 j 15:15	2°♒56'20	-1°00'18
min. Earth dist.	-11403 Oct 13 j 22:04	2°♒52'58	17.35951 AU
direct	-11403 Dec 27 j 21:34	0°♒49'47	
evening set	-11402 Apr 03 j 06:43	4°♒20'07	
max. Earth dist.	-11402 Apr 18 j 09:19	5°♒16'29	19.34134 AU
conjunction	-11402 Apr 19 j 20:26	5°♒22'00	-0°51'57
minimum elong	-11402 Apr 19 j 20:27	5°♒22'00	0°52'30
morning rise	-11402 May 06 j 05:59	6°♒23'17	
retrograde	-11402 Aug 05 j 13:59	9°♒44'40	
opposition	-11402 Oct 17 j 15:26	7°♒42'44	-0°55'41
min. Earth dist.	-11402 Oct 18 j 21:24	7°♒39'28	17.32573 AU
direct	-11401 Jan 02 j 00:58	5°♒36'05	
evening set	-11401 Apr 08 j 11:48	9°♒07'08	
max. Earth dist.	-11401 Apr 23 j 13:25	10°♒03'32	19.30974 AU
conjunction	-11401 Apr 25 j 00:31	10°♒09'04	-0°47'37
minimum elong	-11401 Apr 25 j 00:31	10°♒09'04	0°48'08
morning rise	-11401 May 11 j 08:51	11°♒10'21	
retrograde	-11401 Aug 10 j 13:16	14°♒32'04	

Attention, astronomical year style is used: The year -11401 in astronomical counting style is the year 11402 BCE in historical counting style.

opposition	-11401 Oct 22 j 16:18	12°♒30'09	-0°50'40
min. Earth dist.	-11401 Oct 23 j 23:07	12°♒26'47	17.29640 AU
direct	-11400 Jan 07 j 03:30	10°♒23'23	
evening set	-11400 Apr 12 j 16:59	13°♒55'04	
max. Earth dist.	-11400 Apr 27 j 17:50	14°♒51'30	19.28278 AU
conjunction	-11400 Apr 29 j 04:35	14°♒56'59	-0°42'57
minimum elong	-11400 Apr 29 j 04:35	14°♒56'59	0°43'25
	-11400 Apr 29 j 23:41	15°♒	
morning rise	-11400 May 15 j 11:50	15°♒58'17	
retrograde	-11400 Aug 14 j 14:59	19°♒20'15	
opposition	-11400 Oct 26 j 17:51	17°♒18'20	-0°45'17
min. Earth dist.	-11400 Oct 27 j 23:16	17°♒15'07	17.27170 AU
direct	-11399 Jan 11 j 08:53	15°♒11'29	
evening set	-11399 Apr 17 j 21:56	18°♒43'38	
max. Earth dist.	-11399 May 02 j 22:54	19°♒40'14	19.26058 AU
conjunction	-11399 May 04 j 08:28	19°♒45'32	-0°37'58
minimum elong	-11399 May 04 j 08:28	19°♒45'32	0°38'25
morning rise	-11399 May 20 j 14:22	20°♒46'47	
retrograde	-11399 Aug 19 j 14:28	24°♒08'59	
opposition	-11399 Oct 31 j 20:08	22°♒07'02	-0°39'34
min. Earth dist.	-11399 Nov 02 j 01:53	22°♒03'48	17.25211 AU