Attention, astronomical year style is used: The year -8900 in astronomical counting style is the year 8901 BCE in historical counting style.

direct	-8900 Jan 21 j 04:10	5°♓14'27	
evening set	-8900 Apr 19 j 06:18	6°♓42'33	
max. Earth dist.	-8900 May 01 j 12:19	7°♓03'26	39.21952 AU
conjunction	-8900 May 04 j 23:52	7°♓09'26	3°10'26
minimum elong	-8900 May 04 j 23:45	7°♓09'25	3°10'09
morning rise	-8900 May 20 j 13:48	7°♓36'07	
retrograde	-8900 Aug 13 j 23:15	9°♓01'39	
opposition	-8900 Oct 31 j 12:58	7°♓53'12	3°33'52
min. Earth dist.	-8900 Nov 03 j 17:16	7°♓48'51	37.09628 AU
direct	-8899 Jan 21 j 20:39	6°♓41'45	
evening set	-8899 Apr 21 j 03:28	8°♓10'52	
max. Earth dist.	-8899 May 03 j 06:31	8°♓31'43	38.96526 AU
conjunction	-8899 May 06 j 18:19	8°♓37'47	3°36'03
minimum elong	-8899 May 06 j 18:11	8°♓37'47	3°35'47
morning rise	-8899 May 22 j 05:33	9°♓04'30	
retrograde	-8899 Aug 15 j 16:05	10°♓30'57	
opposition	-8899 Nov 02 j 06:00	9°♓22'11	4°01'03
min. Earth dist.	-8899 Nov 05 j 10:12	9°♓17'49	36.84193 AU
direct	-8898 Jan 23 j 15:21	8°♓10'21	
evening set	-8898 Apr 23 j 01:36	9°♓40'31	
max. Earth dist.	-8898 May 04 j 23:34	10°♓01'11	38.70884 AU
conjunction	-8898 May 08 j 13:19	10°♓07'27	4°01'53
minimum elong	-8898 May 08 j 13:10	10°♓07'27	4°01'38
morning rise	-8898 May 23 j 21:30	10°♓34'10	
retrograde	-8898 Aug 17 j 10:45	12°♓01'36	
opposition	-8898 Nov 03 j 23:47	10°♓52'28	4°28'29
min. Earth dist.	-8898 Nov 07 j 05:34	10°♓47'59	36.58573 AU
direct	-8897 Jan 25 j 07:19	9°♓40'14	
evening set	-8897 Apr 25 j 00:21	11°♓11'28	
max. Earth dist.	-8897 May 06 j 19:25	11°♓32'06	38.45057 AU
conjunction	-8897 May 10 j 08:45	11°♓38'24	4°27'55
minimum elong	-8897 May 10 j 08:35	11°♓38'23	4°27'40
morning rise	-8897 May 25 j 13:20	12°♓05'06	
retrograde	-8897 Aug 19 j 05:14	13°♓33'32	
opposition	-8897 Nov 05 j 18:07	12°♓24'01	4°56'07
min. Earth dist.	-8897 Nov 09 j 00:09	12°♓19'29	36.32788 AU
direct	-8896 Jan 27 j 00:51	11°♓11'22	
evening set	-8896 Apr 26 j 00:12	12°♓43'44	
max. Earth dist.	-8896 May 07 j 13:46	13°♓04'09	38.19093 AU
conjunction	-8896 May 11 j 04:37	13°♓10'37	4°54'06
minimum elong	-8896 May 11 j 04:26	13°♓10'36	4°53'52
morning rise	-8896 May 26 j 05:32	13°♓37'16	
retrograde	-8896 Aug 20 j 03:03	15°♓06'46	
opposition	-8896 Nov 06 j 12:45	13°♓56'51	5°23'57
min. Earth dist.	-8896 Nov 09 j 19:22	13°♓52'16	36.06920 AU
direct	-8895 Jan 27 j 17:26	12°♓43'45	
evening set	-8895 Apr 28 j 00:47	14°♓17'19	
max. Earth dist.	-8895 May 09 j 10:22	14°♓37'37	37.93042 AU
conjunction	-8895 May 13 j 01:09	14°♓44'07	5°20'27
minimum elong	-8895 May 13 j 00:58	14°♓44'06	5°20'15
morning rise	-8895 May 27 j 21:41	15°♓10'41	
retrograde	-8895 Aug 22 j 00:35	16°♓41'17	
opposition	-8895 Nov 08 j 08:13	15°♓30'58	5°51'57
min. Earth dist.	-8895 Nov 11 j 15:48	15°♓26'18	35.81007 AU
direct	-8894 Jan 29 j 12:38	14°♓17'25	
evening set	-8894 Apr 30 j 02:29	15°♓52'14	
max. Earth dist.	-8894 May 11 j 06:57	16°♓12'20	37.66991 AU
conjunction	-8894 May 14 j 22:01	16°♓18'56	5°46'55
minimum elong	-8894 May 14 j 21:48	16°♓18'55	5°46'44
morning rise	-8894 May 29 j 14:00	16°♓45'24	
retrograde	-8894 Aug 23 j 23:37	18°♓17'09	
opposition	-8894 Nov 10 j 04:08	17°♓06'25	6°20'05
min. Earth dist.	-8894 Nov 13 j 11:00	17°♓01'46	35.55147 AU
direct	-8893 Jan 31 j 08:49	15°♓52'25	
evening set	-8893 May 02 j 05:03	17°♓28'33	
max. Earth dist.	-8893 May 13 j 03:58	17°♓48'26	37.40999 AU
conjunction	-8893 May 16 j 19:33	17°♓55'07	6°13'30
minimum elong	-8893 May 16 j 19:19	17°♓55'06	6°13'19
morning rise	-8893 May 31 j 06:21	18°♓21'26	
retrograde	-8893 Aug 25 j 20:50	19°♓54'26	
opposition	-8893 Nov 12 j 00:52	18°♓43'18	6°48'20
min. Earth dist.	-8893 Nov 15 j 08:47	18°♓38'33	35.29407 AU
direct	-8892 Feb 02 j 04:53	17°♓28'51	
evening set	-8892 May 03 j 08:33	19°♓06'22	
max. Earth dist.	-8892 May 14 j 02:57	19°♓26'05	37.15156 AU
conjunction	-8892 May 17 j 17:29	19°♓32'45	6°40'08
minimum elong	-8892 May 17 j 17:13	19°♓32'44	6°39'57
morning rise	-8892 May 31 j 22:45	19°♓58'54	
retrograde	-8892 Aug 26 j 18:11	21°♓33'13	
opposition	-8892 Nov 12 j 22:07	20°♓21'41	7°16'39
min. Earth dist.	-8892 Nov 16 j 05:06	20°♓16'57	35.03834 AU
direct	-8891 Feb 03 j 03:01	19°♓06'48	
evening set	-8891 May 05 j 13:20	20°♓45'47	
max. Earth dist.	-8891 May 16 j 00:34	21°♓05'09	36.89481 AU
conjunction	-8891 May 19 j 16:09	21°♓11'58	7°06'48
minimum elong	-8891 May 19 j 15:53	21°♓11'57	7°06'39
morning rise	-8891 Jun 02 j 15:30	21°♓37'55	
retrograde	-8891 Aug 28 j 18:00	23°♓13'36	
opposition	-8891 Nov 14 j 19:57	22°♓01'41	7°45'02
min. Earth dist.	-8891 Nov 18 j 03:33	21°♓56'54	34.78462 AU
direct	-8890 Feb 04 j 21:52	20°♓46'23	
evening set	-8890 May 07 j 19:12	22°♓26'56	
max. Earth dist.	-8890 May 18 j 01:12	22°♓46'04	36.63987 AU
conjunction	-8890 May 21 j 15:36	22°♓52'52	7°33'29
minimum elong	-8890 May 21 j 15:18	22°♓52'50	7°33'20
morning rise	-8890 Jun 04 j 08:17	23°♓18'34	
retrograde	-8890 Aug 30 j 17:07	24°♓55'44	
opposition	-8890 Nov 16 j 18:44	23°♓43'26	8°13'25
min. Earth dist.	-8890 Nov 20 j 02:06	23°♓38'38	34.53263 AU
direct	-8889 Feb 06 j 19:27	22°♓27'44	
evening set	-8889 May 10 j 02:14	24°♓09'54	
max. Earth dist.	-8889 May 20 j 00:23	24°♓28'38	36.38653 AU
conjunction	-8889 May 23 j 15:24	24°♓35'33	8°00'09
minimum elong	-8889 May 23 j 15:06	24°♓35'31	8°00'02
morning rise	-8889 Jun 06 j 01:15	25°♓00'57	
retrograde	-8889 Sep 01 j 20:04	26°♓39'41	
opposition	-8889 Nov 18 j 18:07	25°♓27'01	8°41'48
min. Earth dist.	-8889 Nov 22 j 01:18	25°♓22'12	34.28228 AU
direct	-8888 Feb 08 j 16:16	24°♓10'54	
evening set	-8888 May 11 j 10:28	25°♓54'47	
max. Earth dist.	-8888 May 21 j 01:37	26°♓13'09	36.13428 AU
conjunction	-8888 May 24 j 16:10	26°♓20'06	8°26'46
minimum elong	-8888 May 24 j 15:51	26°♓20'04	8°26'39
morning rise	-8888 Jun 06 j 18:21	26°♓45'09	
retrograde	-8888 Sep 02 j 22:22	28°♓25'32	
opposition	-8888 Nov 19 j 18:17	27°♓12'28	9°10'08
min. Earth dist.	-8888 Nov 23 j 02:22	27°♓07'34	34.03296 AU

Attention, astronomical year style is used: The year -8887 in astronomical counting style is the year 8888 BCE in historical counting style.

direct	-8887 Feb 09 j 14:45	25°♓55'57	
evening set	-8887 May 13 j 20:09	27°♓41'37	
max. Earth dist.	-8887 May 23 j 02:57	27°♓59'31	35.88301 AU
conjunction	-8887 May 26 j 17:34	28°♓06'31	8°53'18
minimum elong	-8887 May 26 j 17:13	28°♓06'30	8°53'13
morning rise	-8887 Jun 08 j 11:45	28°♓31'12	
	-8887 Aug 06 j 10:01	0°♈	
retrograde	-8887 Sep 05 j 02:07	0°♈13'16	
	-8887 Oct 05 j 03:38	30°♓℞	
opposition	-8887 Nov 21 j 19:16	28°♓59'49	9°38'23
min. Earth dist.	-8887 Nov 25 j 02:31	28°♓54'56	33.78456 AU
direct	-8886 Feb 11 j 15:35	27°♓42'51	
evening set	-8886 May 16 j 07:02	29°♓30'23	
max. Earth dist.	-8886 May 25 j 04:33	29°♓47'43	35.63234 AU
conjunction	-8886 May 28 j 19:43	29°♓54'51	9°19'44
minimum elong	-8886 May 28 j 19:21	29°♓54'49	9°19'39
	-8886 May 31 j 10:47	0°♈	
morning rise	-8886 Jun 10 j 05:10	0°♈19'04	
retrograde	-8886 Sep 07 j 05:39	2°♈02'55	
opposition	-8886 Nov 23 j 21:10	0°♈49'02	10°06'32
min. Earth dist.	-8886 Nov 27 j 05:27	0°♈44'04	33.53705 AU
	-8886 Dec 29 j 13:32	30°♓℞	
direct	-8885 Feb 13 j 16:44	29°♓31'38	
	-8885 Mar 30 j 18:41	0°♈	
evening set	-8885 May 18 j 19:20	1°♈21'06	
max. Earth dist.	-8885 May 27 j 08:28	1°♈37'55	35.38274 AU
conjunction	-8885 May 30 j 22:35	1°♈45'02	9°46'00
minimum elong	-8885 May 30 j 22:13	1°♈45'00	9°45'57
morning rise	-8885 Jun 11 j 22:41	2°♈08'45	
retrograde	-8885 Sep 09 j 09:20	3°♈54'26	
opposition	-8885 Nov 25 j 23:47	2°♈40'08	10°34'31
min. Earth dist.	-8885 Nov 29 j 07:07	2°♈35'10	33.29080 AU
direct	-8884 Feb 15 j 19:56	1°♈22'16	
evening set	-8884 May 20 j 08:50	3°♈13'44	
max. Earth dist.	-8884 May 28 j 11:05	3°♈29'50	35.13453 AU
conjunction	-8884 Jun 01 j 02:00	3°♈37'05	10°12'04
minimum elong	-8884 Jun 01 j 01:37	3°♈37'03	10°12'02
morning rise	-8884 Jun 12 j 16:17	4°♈00'13	
retrograde	-8884 Sep 10 j 13:51	5°♈47'50	
opposition	-8884 Nov 27 j 03:08	4°♈33'05	11°02'17
min. Earth dist.	-8884 Nov 30 j 10:57	4°♈28'04	33.04642 AU
direct	-8883 Feb 16 j 20:51	3°♈14'44	
evening set	-8883 May 22 j 23:49	5°♈08'17	
max. Earth dist.	-8883 May 30 j 16:53	5°♈23'46	34.88834 AU
conjunction	-8883 Jun 03 j 06:19	5°♈30'58	10°37'53
minimum elong	-8883 Jun 03 j 05:54	5°♈30'56	10°37'53
morning rise	-8883 Jun 14 j 09:48	5°♈53'27	
retrograde	-8883 Sep 12 j 16:50	7°♈43'04	
opposition	-8883 Nov 29 j 07:18	6°♈27'52	11°29'45
min. Earth dist.	-8883 Dec 02 j 14:32	6°♈22'51	32.80445 AU
direct	-8882 Feb 19 j 00:07	5°♈09'02	
evening set	-8882 May 25 j 16:20	7°♈04'45	
max. Earth dist.	-8882 Jun 01 j 21:32	7°♈19'25	34.64506 AU
conjunction	-8882 Jun 05 j 11:09	7°♈26'43	11°03'22
minimum elong	-8882 Jun 05 j 10:44	7°♈26'41	11°03'22
morning rise	-8882 Jun 16 j 03:24	7°♈48'27	
retrograde	-8882 Sep 14 j 23:52	9°♈40'11	
opposition	-8882 Dec 01 j 12:19	8°♈24'30	11°56'52
min. Earth dist.	-8882 Dec 04 j 18:39	8°♈19'31	32.56600 AU
direct	-8881 Feb 21 j 01:52	7°♈05'11	
evening set	-8881 May 28 j 10:02	9°♈03'11	
max. Earth dist.	-8881 Jun 04 j 04:42	9°♈17'05	34.40546 AU
conjunction	-8881 Jun 07 j 16:41	9°♈24'19	11°28'28
minimum elong	-8881 Jun 07 j 16:16	9°♈24'16	11°28'30
morning rise	-8881 Jun 17 j 20:40	9°♈45'15	
retrograde	-8881 Sep 17 j 05:54	11°♈39'12	
opposition	-8881 Dec 03 j 18:20	10°♈23'02	12°23'34
min. Earth dist.	-8881 Dec 07 j 00:25	10°♈18'02	32.33173 AU
direct	-8880 Feb 23 j 05:06	9°♈03'15	
evening set	-8880 May 30 j 05:35	11°♈03'37	
max. Earth dist.	-8880 Jun 05 j 11:58	11°♈16'37	34.17059 AU
conjunction	-8880 Jun 08 j 22:55	11°♈23'50	11°53'06
minimum elong	-8880 Jun 08 j 22:29	11°♈23'48	11°53'08
morning rise	-8880 Jun 18 j 13:58	11°♈43'52	
retrograde	-8880 Sep 18 j 15:21	13°♈40'08	
opposition	-8880 Dec 05 j 00:52	12°♈23'31	12°49'44
min. Earth dist.	-8880 Dec 08 j 05:05	12°♈18'36	32.10257 AU
direct	-8879 Feb 24 j 11:46	11°♈03'16	
evening set	-8879 Jun 02 j 02:41	13°♈06'09	
max. Earth dist.	-8879 Jun 07 j 20:06	13°♈18'09	33.94088 AU
conjunction	-8879 Jun 11 j 06:05	13°♈25'21	12°17'12
minimum elong	-8879 Jun 11 j 05:38	13°♈25'19	12°17'16
morning rise	-8879 Jun 20 j 07:11	13°♈44'22	
retrograde	-8879 Sep 21 j 01:09	15°♈43'05	
opposition	-8879 Dec 07 j 08:36	14°♈26'02	13°15'20
min. Earth dist.	-8879 Dec 10 j 12:43	14°♈21'06	31.87886 AU
direct	-8878 Feb 26 j 17:49	13°♈05'22	
evening set	-8878 Jun 05 j 01:44	15°♈10'53	
max. Earth dist.	-8878 Jun 10 j 05:55	15°♈21'51	33.71688 AU
conjunction	-8878 Jun 13 j 13:52	15°♈28'56	12°40'42
minimum elong	-8878 Jun 13 j 13:25	15°♈28'54	12°40'47
morning rise	-8878 Jun 21 j 23:55	15°♈46'50	
retrograde	-8878 Sep 23 j 10:56	17°♈48'08	
opposition	-8878 Dec 09 j 17:10	16°♈30'41	13°40'16
min. Earth dist.	-8878 Dec 12 j 19:00	16°♈25'52	31.66080 AU
direct	-8877 Mar 01 j 02:14	15°♈09'36	
evening set	-8877 Jun 08 j 02:39	17°♈17'54	
max. Earth dist.	-8877 Jun 12 j 15:05	17°♈27'35	33.49846 AU
conjunction	-8877 Jun 15 j 22:30	17°♈34'41	13°03'32
minimum elong	-8877 Jun 15 j 22:03	17°♈34'39	13°03'39
morning rise	-8877 Jun 23 j 16:30	17°♈51'19	
retrograde	-8877 Sep 25 j 22:08	19°♈55'21	
opposition	-8877 Dec 12 j 02:41	18°♈37'29	14°04'28
min. Earth dist.	-8877 Dec 15 j 04:14	18°♈32'40	31.44840 AU
direct	-8876 Mar 02 j 09:17	17°♈16'02	
evening set	-8876 Jun 10 j 05:56	19°♈27'15	
max. Earth dist.	-8876 Jun 14 j 03:05	19°♈35'40	33.28556 AU
conjunction	-8876 Jun 17 j 07:56	19°♈42'37	13°25'39
minimum elong	-8876 Jun 17 j 07:29	19°♈42'34	13°25'46
morning rise	-8876 Jun 24 j 08:12	19°♈57'49	
retrograde	-8876 Sep 27 j 09:10	22°♈04'44	
opposition	-8876 Dec 13 j 13:09	20°♈46'30	14°27'54
min. Earth dist.	-8876 Dec 16 j 13:02	20°♈41'45	31.24119 AU
direct	-8875 Mar 04 j 19:18	19°♈24'40	
evening set	-8875 Jun 13 j 11:49	21°♈39'01	
max. Earth dist.	-8875 Jun 16 j 13:35	21°♈45'44	33.07780 AU
conjunction	-8875 Jun 19 j 18:09	21°♈52'44	13°46'58
minimum elong	-8875 Jun 19 j 17:43	21°♈52'42	13°47'07
morning rise	-8875 Jun 25 j 23:02	22°♈06'19	
retrograde	-8875 Sep 29 j 21:55	24°♈16'20	
opposition	-8875 Dec 16 j 00:32	22°♈57'42	14°50'27

Attention, astronomical year style is used: The year -8875 in astronomical counting style is the year 8876 BCE in historical counting style.

min. Earth dist.	-8875 Dec	18 j 23:32	22°♈52'59	31.03917 AU	max. Earth dist.	-8867 Jul	05 j 19:55	10°♉20'13	31.63543 AU
direct	-8874 Mar	07 j 03:46	21°♈35'28						
evening set	-8874 Jun	16 j 21:12	23°♈53'12		conjunction	-8867 Jul	08 j 06:39	10°♉25'58	15°59'41
max. Earth dist.	-8874 Jun	19 j 03:15	23°♈58'10	32.87515 AU	minimum elong	-8867 Jul	08 j 06:20	10°♉25'56	16°00'00
					retrograde	-8867 Oct	19 j 03:40	13°♉00'14	
conjunction	-8874 Jun	22 j 05:24	24°♈05'01	14°07'25	opposition	-8866 Jan	04 j 04:37	11°♉38'32	17°09'17
minimum elong	-8874 Jun	22 j 04:57	24°♈04'58	14°07'35	min. Earth dist.	-8866 Jan	06 j 11:53	11°♉34'44	29.64667 AU
morning rise	-8874 Jun	27 j 12:14	24°♈16'42		direct	-8866 Mar	25 j 19:19	10°♉13'38	
retrograde	-8874 Oct	02 j 09:03	26°♈30'03		max. Earth dist.	-8866 Jul	08 j 14:19	12°♉47'43	31.49244 AU
opposition	-8874 Dec	18 j 13:06	25°♈11'01	15°12'04					
min. Earth dist.	-8874 Dec	21 j 10:54	25°♈06'22	30.84216 AU	conjunction	-8866 Jul	10 j 23:03	12°♉53'18	16°10'12
direct	-8873 Mar	09 j 14:30	23°♈48'26		minimum elong	-8866 Jul	10 j 22:45	12°♉53'16	16°10'32
evening set	-8873 Jun	20 j 11:04	26°♈09'53			-8866 Sep	11 j 07:53	15°♉	
max. Earth dist.	-8873 Jun	21 j 15:41	26°♈12'33	32.67785 AU	retrograde	-8866 Oct	21 j 22:46	15°♉28'44	
						-8866 Dec	03 j 01:33	15°℞♉	
conjunction	-8873 Jun	24 j 17:05	26°♈19'23	14°26'57	opposition	-8865 Jan	06 j 23:54	14°♉06'45	17°19'57
minimum elong	-8873 Jun	24 j 16:39	26°♈19'21	14°27'08	min. Earth dist.	-8865 Jan	09 j 04:38	14°♉03'07	29.51052 AU
morning rise	-8873 Jun	28 j 21:59	26°♈28'47		direct	-8865 Mar	28 j 11:34	12°♉41'39	
retrograde	-8873 Oct	04 j 23:47	28°♈45'51			-8865 Jul	04 j 06:10	15°♉	
opposition	-8873 Dec	21 j 02:23	27°♈26'25	15°32'40	max. Earth dist.	-8865 Jul	11 j 11:31	15°♉17'07	31.35963 AU
min. Earth dist.	-8873 Dec	23 j 22:17	27°♈21'52	30.65058 AU					
direct	-8872 Mar	11 j 01:00	26°♈03'27		conjunction	-8865 Jul	13 j 16:02	15°♉22'20	16°19'06
evening set	-8872 Jun	23 j 10:00	28°♈29'25		minimum elong	-8865 Jul	13 j 15:47	15°♉22'18	16°19'28
max. Earth dist.	-8872 Jun	23 j 06:38	28°♈29'07	32.48606 AU	retrograde	-8865 Oct	24 j 17:22	17°♉58'52	
					opposition	-8864 Jan	09 j 19:56	16°♉36'39	17°28'52
conjunction	-8872 Jun	26 j 05:49	28°♈35'48	14°45'28	min. Earth dist.	-8864 Jan	11 j 21:49	16°♉33'11	29.38410 AU
minimum elong	-8872 Jun	26 j 05:24	28°♈35'45	14°45'39	direct	-8864 Mar	30 j 06:22	15°♉11'23	
morning rise	-8872 Jun	29 j 00:41	28°♈42'05		max. Earth dist.	-8864 Jul	13 j 07:01	17°♉47'57	31.23687 AU
	-8872 Aug	04 j 19:37	0°♉						
retrograde	-8872 Oct	06 j 13:12	1°♉03'39		conjunction	-8864 Jul	15 j 09:32	17°♉53'00	16°26'20
	-8872 Dec	12 j 14:26	30°℞♈		minimum elong	-8864 Jul	15 j 09:18	17°♉52'58	16°26'42
opposition	-8872 Dec	22 j 16:35	29°♈43'49	15°52'08	retrograde	-8864 Oct	26 j 14:58	20°♉30'34	
min. Earth dist.	-8872 Dec	25 j 11:48	29°♈39'17	30.46464 AU	opposition	-8863 Jan	11 j 16:25	19°♉08'08	17°35'56
direct	-8871 Mar	13 j 12:14	28°♈20'28		min. Earth dist.	-8863 Jan	13 j 15:11	19°♉04'53	29.26740 AU
	-8871 Jun	04 j 10:13	0°♉		direct	-8863 Apr	02 j 00:04	17°♉42'44	
max. Earth dist.	-8871 Jun	25 j 21:40	0°♉47'35	32.30051 AU	max. Earth dist.	-8863 Jul	16 j 05:12	20°♉20'31	31.12383 AU
conjunction	-8871 Jun	28 j 19:08	0°♉54'10	15°02'53	conjunction	-8863 Jul	18 j 03:44	20°♉25'12	16°31'50
minimum elong	-8871 Jun	28 j 18:43	0°♉54'08	15°03'07	minimum elong	-8863 Jul	18 j 03:33	20°♉25'11	16°32'14
retrograde	-8871 Oct	09 j 05:33	3°♉23'23		retrograde	-8863 Oct	29 j 09:39	23°♉03'43	
opposition	-8871 Dec	25 j 07:38	2°♉03'08	16°10'25	opposition	-8862 Jan	14 j 13:56	21°♉41'05	17°41'07
min. Earth dist.	-8871 Dec	28 j 00:13	1°♉58'46	30.28510 AU	min. Earth dist.	-8862 Jan	16 j 10:30	21°♉37'58	29.15997 AU
direct	-8870 Mar	16 j 03:06	0°♉39'26		direct	-8862 Apr	04 j 19:31	20°♉15'34	
max. Earth dist.	-8870 Jun	28 j 13:38	3°♉07'59	32.12170 AU	max. Earth dist.	-8862 Jul	19 j 02:01	22°♉54'19	31.02042 AU
conjunction	-8870 Jul	01 j 09:04	3°♉14'25	15°19'06	conjunction	-8862 Jul	20 j 22:08	22°♉58'46	16°35'34
minimum elong	-8870 Jul	01 j 08:40	3°♉14'23	15°19'21	minimum elong	-8862 Jul	20 j 21:58	22°♉58'45	16°35'58
retrograde	-8870 Oct	11 j 21:40	5°♉44'58		retrograde	-8862 Nov	01 j 06:59	25°♉38'09	
opposition	-8870 Dec	27 j 23:46	4°♉24'19	16°27'22	opposition	-8861 Jan	17 j 11:57	24°♉15'19	17°44'23
min. Earth dist.	-8870 Dec	30 j 15:19	4°♉20'00	30.11268 AU	min. Earth dist.	-8861 Jan	19 j 04:48	24°♉12'28	29.06180 AU
direct	-8869 Mar	18 j 17:01	3°♉00'16		direct	-8861 Apr	07 j 15:32	22°♉49'42	
max. Earth dist.	-8869 Jul	01 j 07:09	5°♉30'17	31.95076 AU	max. Earth dist.	-8861 Jul	22 j 00:43	25°♉29'25	30.92637 AU
conjunction	-8869 Jul	03 j 23:39	5°♉36'30	15°34'02	conjunction	-8861 Jul	23 j 17:12	25°♉33'31	16°37'29
minimum elong	-8869 Jul	03 j 23:17	5°♉36'28	15°34'19	minimum elong	-8861 Jul	23 j 17:06	25°♉33'31	16°37'55
retrograde	-8869 Oct	14 j 14:45	8°♉08'20		retrograde	-8861 Nov	04 j 03:26	28°♉13'40	
opposition	-8869 Dec	30 j 16:29	6°♉47'18	16°42'54	opposition	-8860 Jan	20 j 10:29	26°♉50'38	17°45'41
min. Earth dist.	-8868 Jan	02 j 04:45	6°♉43'11	29.94832 AU	min. Earth dist.	-8860 Jan	22 j 01:27	26°♉47'55	28.97270 AU
direct	-8868 Mar	20 j 09:21	5°♉22'55		direct	-8860 Apr	09 j 10:37	25°♉24'57	
max. Earth dist.	-8868 Jul	03 j 00:12	7°♉54'17	31.78837 AU	max. Earth dist.	-8860 Jul	23 j 22:50	28°♉05'25	30.84190 AU
conjunction	-8868 Jul	05 j 14:48	8°♉00'21	15°47'36	conjunction	-8860 Jul	25 j 12:28	28°♉09'15	16°37'34
minimum elong	-8868 Jul	05 j 14:27	8°♉00'19	15°47'53	minimum elong	-8860 Jul	25 j 12:23	28°♉09'15	16°38'00
retrograde	-8868 Oct	16 j 09:10	10°♉33'26			-8860 Sep	13 j 11:05	0°♊	
opposition	-8867 Jan	01 j 10:10	9°♉12'03	16°56'54	retrograde	-8860 Nov	06 j 01:02	0°♊50'03	
min. Earth dist.	-8867 Jan	03 j 20:44	9°♉08'02	29.79280 AU		-8859 Jan	02 j 01:01	30°℞♉	
direct	-8867 Mar	23 j 00:48	7°♉47'23		opposition	-8859 Jan	22 j 09:24	29°♉26'50	17°45'00

Attention, astronomical year style is used: The year -8859 in astronomical counting style is the year 8860 BCE in historical counting style.

min. Earth dist.	-8859 Jan 23 j 20:14	29°♉24'24	28.89277 AU
direct	-8859 Apr 12 j 09:10	28°♉01'04	
	-8859 Jul 09 j 09:14	0°♊	
max. Earth dist.	-8859 Jul 26 j 21:34	0°♊42'14	30.76691 AU
conjunction	-8859 Jul 28 j 08:00	0°♊45'44	16°35'47
minimum elong	-8859 Jul 28 j 07:59	0°♊45'44	16°36'15
retrograde	-8859 Nov 08 j 21:50	3°♊27'04	
opposition	-8858 Jan 25 j 08:51	2°♊03'40	17°42'16
min. Earth dist.	-8858 Jan 26 j 17:33	2°♊01'23	28.82230 AU
direct	-8858 Apr 15 j 06:36	0°♊37'50	
max. Earth dist.	-8858 Jul 29 j 20:57	3°♊19'36	30.70211 AU
conjunction	-8858 Jul 31 j 03:40	3°♊22'45	16°32'06
minimum elong	-8858 Jul 31 j 03:40	3°♊22'45	16°32'34
retrograde	-8858 Nov 11 j 19:43	6°♊04'29	
opposition	-8857 Jan 28 j 08:27	4°♊40'56	17°37'28
min. Earth dist.	-8857 Jan 29 j 12:47	4°♊38'57	28.76181 AU
direct	-8857 Apr 18 j 05:48	3°♊15'03	
conjunction	-8857 Aug 02 j 23:18	6°♊00'04	16°26'29
minimum elong	-8857 Aug 02 j 23:22	6°♊00'05	16°26'59
max. Earth dist.	-8857 Aug 01 j 19:42	5°♊57'15	30.64783 AU
retrograde	-8857 Nov 14 j 17:30	8°♊42'08	
opposition	-8856 Jan 31 j 08:18	7°♊18'25	17°30'34
min. Earth dist.	-8856 Feb 01 j 09:59	7°♊16'37	28.71196 AU
direct	-8856 Apr 20 j 03:47	5°♊52'30	
conjunction	-8856 Aug 04 j 19:02	8°♊37'31	16°18'55
minimum elong	-8856 Aug 04 j 19:07	8°♊37'32	16°19'25
max. Earth dist.	-8856 Aug 03 j 19:58	8°♊35'10	30.60486 AU
retrograde	-8856 Nov 16 j 15:14	11°♊19'46	
opposition	-8855 Feb 02 j 08:04	9°♊55'56	17°21'34
min. Earth dist.	-8855 Feb 03 j 05:27	9°♊54'27	28.67328 AU
direct	-8855 Apr 23 j 04:37	8°♊30'03	
conjunction	-8855 Aug 07 j 14:38	11°♊14'58	16°09'25
minimum elong	-8855 Aug 07 j 14:48	11°♊14'59	16°09'55
max. Earth dist.	-8855 Aug 06 j 18:41	11°♊12'55	30.57376 AU
retrograde	-8855 Nov 19 j 13:15	13°♊57'19	
opposition	-8854 Feb 05 j 08:08	12°♊33'24	17°10'27
min. Earth dist.	-8854 Feb 06 j 01:54	12°♊32'10	28.64662 AU
direct	-8854 Apr 26 j 02:42	11°♊07'35	
conjunction	-8854 Aug 10 j 10:12	13°♊52'16	15°57'58
minimum elong	-8854 Aug 10 j 10:22	13°♊52'17	15°58'28
max. Earth dist.	-8854 Aug 09 j 19:17	13°♊50'45	30.55517 AU
retrograde	-8854 Nov 22 j 10:21	16°♊34'38	
opposition	-8853 Feb 08 j 08:12	15°♊10'42	16°57'14
min. Earth dist.	-8853 Feb 08 j 21:51	15°♊09'45	28.63210 AU
direct	-8853 Apr 29 j 02:54	13°♊45'00	
conjunction	-8853 Aug 13 j 05:35	16°♊29'23	15°44'35
minimum elong	-8853 Aug 13 j 05:49	16°♊29'24	15°45'07
max. Earth dist.	-8853 Aug 12 j 17:38	16°♊28'09	30.54917 AU
retrograde	-8853 Nov 25 j 09:24	19°♊11'40	
opposition	-8852 Feb 11 j 07:56	17°♊47'45	16°41'58
min. Earth dist.	-8852 Feb 11 j 17:24	17°♊47'05	28.62995 AU
direct	-8852 May 01 j 01:34	16°♊22'13	
conjunction	-8852 Aug 15 j 00:57	19°♊06'12	15°29'21
minimum elong	-8852 Aug 15 j 01:12	19°♊06'13	15°29'53
max. Earth dist.	-8852 Aug 14 j 17:58	19°♊05'29	30.55557 AU
retrograde	-8852 Nov 27 j 05:13	21°♊48'18	
opposition	-8851 Feb 13 j 07:47	20°♊24'27	16°24'43
min. Earth dist.	-8851 Feb 13 j 13:58	20°♊24'01	28.63960 AU
direct	-8851 May 04 j 00:53	18°♊59'08	
conjunction	-8851 Aug 17 j 19:50	21°♊42'36	15°12'18
minimum elong	-8851 Aug 17 j 20:08	21°♊42'37	15°12'51
max. Earth dist.	-8851 Aug 17 j 15:51	21°♊42'11	30.57392 AU
retrograde	-8851 Nov 30 j 02:58	24°♊24'27	
opposition	-8850 Feb 16 j 07:25	23°♊00'42	16°05'32
min. Earth dist.	-8850 Feb 16 j 09:02	23°♊00'35	28.66078 AU
direct	-8850 May 06 j 23:21	21°♊35'36	
evening set	-8850 Aug 18 j 20:39	24°♊14'10	
conjunction	-8850 Aug 20 j 14:43	24°♊18'28	14°53'31
minimum elong	-8850 Aug 20 j 15:01	24°♊18'30	14°54'05
max. Earth dist.	-8850 Aug 20 j 15:21	24°♊18'32	30.60365 AU
morning rise	-8850 Aug 22 j 09:24	24°♊22'49	
retrograde	-8850 Dec 02 j 22:48	26°♊59'57	
opposition	-8849 Feb 19 j 06:53	25°♊36'19	15°44'31
min. Earth dist.	-8849 Feb 19 j 05:48	25°♊36'23	28.69287 AU
direct	-8849 May 09 j 21:24	24°♊11'29	
evening set	-8849 Aug 19 j 16:39	26°♊44'38	
conjunction	-8849 Aug 23 j 09:07	26°♊53'37	14°33'05
minimum elong	-8849 Aug 23 j 09:28	26°♊53'39	14°33'38
max. Earth dist.	-8849 Aug 23 j 12:43	26°♊53'59	30.64432 AU
morning rise	-8849 Aug 27 j 02:15	27°♊02'41	
retrograde	-8849 Dec 05 j 19:21	29°♊34'39	
opposition	-8848 Feb 22 j 05:51	28°♊11'09	15°21'46
min. Earth dist.	-8848 Feb 22 j 00:09	28°♊11'32	28.73537 AU
direct	-8848 May 11 j 19:53	26°♊46'34	
evening set	-8848 Aug 20 j 04:06	29°♊15'50	
conjunction	-8848 Aug 25 j 03:17	29°♊27'54	14°11'04
minimum elong	-8848 Aug 25 j 03:38	29°♊27'56	14°11'38
max. Earth dist.	-8848 Aug 25 j 10:42	29°♊28'39	30.69520 AU
morning rise	-8848 Aug 30 j 03:05	29°♊40'01	
	-8848 Sep 07 j 10:17	0°♋	
retrograde	-8848 Dec 07 j 13:00	2°♋08'23	
opposition	-8847 Feb 24 j 04:31	0°♋45'00	14°57'21
min. Earth dist.	-8847 Feb 23 j 20:26	0°♋45'33	28.78783 AU
	-8847 Mar 24 j 20:54	30°℞♊	
direct	-8847 May 14 j 17:11	29°♊20'42	
	-8847 Jul 02 j 00:18	0°♋	
evening set	-8847 Aug 21 j 20:55	1°♋46'36	
conjunction	-8847 Aug 27 j 21:00	2°♋01'07	13°47'34
minimum elong	-8847 Aug 27 j 21:23	2°♋01'09	13°48'07
max. Earth dist.	-8847 Aug 28 j 07:41	2°♋02'11	30.75620 AU
morning rise	-8847 Sep 02 j 21:47	2°♋15'42	
retrograde	-8847 Dec 10 j 08:10	4°♋40'55	
opposition	-8846 Feb 27 j 02:41	3°♋17'41	14°31'22
min. Earth dist.	-8846 Feb 26 j 14:09	3°♋18'33	28.85005 AU
direct	-8846 May 17 j 14:41	1°♋53'39	
evening set	-8846 Aug 23 j 16:08	4°♋16'26	
conjunction	-8846 Aug 30 j 14:06	4°♋33'03	13°22'40
minimum elong	-8846 Aug 30 j 14:29	4°♋33'06	13°23'14
max. Earth dist.	-8846 Aug 31 j 04:03	4°♋34'27	30.82693 AU
morning rise	-8846 Sep 06 j 12:47	4°♋49'46	
retrograde	-8846 Dec 13 j 01:45	7°♋12'08	
min. Earth dist.	-8845 Mar 01 j 09:22	5°♋50'03	28.92204 AU
opposition	-8845 Mar 02 j 00:26	5°♋49'01	14°03'55
direct	-8845 May 20 j 10:49	4°♋25'15	
evening set	-8845 Aug 25 j 13:17	6°♋45'06	
conjunction	-8845 Sep 02 j 06:46	7°♋03'34	12°56'26
minimum elong	-8845 Sep 02 j 07:11	7°♋03'36	12°57'00
max. Earth dist.	-8845 Sep 03 j 00:35	7°♋05'21	30.90761 AU
morning rise	-8845 Sep 10 j 00:56	7°♋22'08	
retrograde	-8845 Dec 15 j 18:47	9°♋41'47	

Attention, astronomical year style is used: The year -8844 in astronomical counting style is the year 8845 BCE in historical counting style.

opposition	-8844 Mar 03 j 21:12	8°♋18'50	13°35'05
min. Earth dist.	-8844 Mar 03 j 02:06	8°♋20'08	29.00384 AU
direct	-8844 May 22 j 09:00	6°♋55'20	
evening set	-8844 Aug 26 j 11:22	9°♋12'22	
conjunction	-8844 Sep 03 j 22:39	9°♋32'30	12°28'58
minimum elong	-8844 Sep 03 j 23:03	9°♋32'32	12°29'33
max. Earth dist.	-8844 Sep 04 j 19:16	9°♋34'32	30.99828 AU
morning rise	-8844 Sep 12 j 10:50	9°♋52'43	
retrograde	-8844 Dec 17 j 12:09	12°♋09'49	
opposition	-8843 Mar 06 j 17:34	10°♋47'00	13°04'58
min. Earth dist.	-8843 Mar 05 j 19:14	10°♋48'31	29.09600 AU
direct	-8843 May 25 j 03:37	9°♋23'47	
evening set	-8843 Aug 28 j 10:09	11°♋38'07	
conjunction	-8843 Sep 06 j 13:53	11°♋59'44	12°00'21
minimum elong	-8843 Sep 06 j 14:18	11°♋59'46	12°00'54
max. Earth dist.	-8843 Sep 07 j 14:57	12°♋02'12	31.09949 AU
morning rise	-8843 Sep 15 j 18:22	12°♋21'26	
retrograde	-8843 Dec 20 j 03:27	14°♋36'05	
min. Earth dist.	-8842 Mar 08 j 11:13	13°♋15'12	29.19870 AU
opposition	-8842 Mar 09 j 13:14	13°♋13'27	12°33'39
direct	-8842 May 28 j 00:21	11°♋50'33	
evening set	-8842 Aug 30 j 09:41	14°♋02'17	
conjunction	-8842 Sep 09 j 04:27	14°♋25'13	11°30'40
minimum elong	-8842 Sep 09 j 04:51	14°♋25'16	11°31'14
max. Earth dist.	-8842 Sep 10 j 08:03	14°♋27'56	31.21148 AU
morning rise	-8842 Sep 19 j 00:16	14°♋48'16	
retrograde	-8842 Dec 22 j 20:53	17°♋00'34	
min. Earth dist.	-8841 Mar 11 j 02:08	15°♋40'09	29.31248 AU
opposition	-8841 Mar 12 j 08:04	15°♋38'08	12°01'15
direct	-8841 May 30 j 19:06	14°♋15'35	
evening set	-8841 Sep 01 j 09:30	16°♋24'50	
conjunction	-8841 Sep 11 j 18:28	16°♋48'59	11°00'01
minimum elong	-8841 Sep 11 j 18:53	16°♋49'01	11°00'34
max. Earth dist.	-8841 Sep 13 j 02:38	16°♋52'07	31.33438 AU
morning rise	-8841 Sep 22 j 04:18	17°♋13'13	
retrograde	-8841 Dec 25 j 10:42	19°♋23'16	
min. Earth dist.	-8840 Mar 12 j 17:25	18°♋03'17	29.43694 AU
opposition	-8840 Mar 14 j 02:13	18°♋01'05	11°27'52
direct	-8840 Jun 01 j 14:04	16°♋38'55	
evening set	-8840 Sep 02 j 09:50	18°♋45'47	
conjunction	-8840 Sep 13 j 07:39	19°♋11'00	10°28'30
minimum elong	-8840 Sep 13 j 08:03	19°♋11'02	10°29'04
max. Earth dist.	-8840 Sep 14 j 18:12	19°♋14'20	31.46786 AU
morning rise	-8840 Sep 24 j 06:40	19°♋36'19	
retrograde	-8840 Dec 27 j 01:47	21°♋44'13	
min. Earth dist.	-8839 Mar 15 j 06:27	20°♋24'47	29.57188 AU
opposition	-8839 Mar 16 j 19:33	20°♋22'19	10°53'38
direct	-8839 Jun 04 j 07:03	19°♋00'33	
evening set	-8839 Sep 04 j 10:19	21°♋05'08	
conjunction	-8839 Sep 15 j 20:19	21°♋31'18	9°56'14
minimum elong	-8839 Sep 15 j 20:43	21°♋31'20	9°56'46
max. Earth dist.	-8839 Sep 17 j 11:02	21°♋35'01	31.61135 AU
morning rise	-8839 Sep 27 j 07:26	21°♋57'35	
retrograde	-8839 Dec 29 j 14:22	24°♋03'25	
min. Earth dist.	-8838 Mar 17 j 21:01	22°♋44'26	29.71661 AU
opposition	-8838 Mar 19 j 12:20	22°♋41'49	10°18'38
direct	-8838 Jun 07 j 00:35	21°♋20'29	
evening set	-8838 Sep 06 j 11:07	23°♋22'52	
conjunction	-8838 Sep 18 j 08:12	23°♋49'53	9°23'18
minimum elong	-8838 Sep 18 j 08:34	23°♋49'55	9°23'51

max. Earth dist.	-8838 Sep 20 j 01:15	23°♋53'47	31.76422 AU
morning rise	-8838 Sep 30 j 06:34	24°♋17'01	
retrograde	-8837 Jan 01 j 04:11	26°♋20'52	
min. Earth dist.	-8837 Mar 20 j 08:55	25°♋02'27	29.87034 AU
opposition	-8837 Mar 22 j 04:13	24°♋59'36	9°43'00
direct	-8837 Jun 09 j 16:57	23°♋38'41	
evening set	-8837 Sep 08 j 12:12	25°♋38'58	
conjunction	-8837 Sep 20 j 19:34	26°♋06'44	8°49'50
minimum elong	-8837 Sep 20 j 19:56	26°♋06'46	8°50'21
max. Earth dist.	-8837 Sep 22 j 15:45	26°♋10'54	31.92536 AU
morning rise	-8837 Oct 03 j 04:22	26°♋34'37	
retrograde	-8836 Jan 03 j 14:17	28°♋36'34	
min. Earth dist.	-8836 Mar 21 j 22:21	27°♋18'35	30.03223 AU
opposition	-8836 Mar 23 j 19:19	27°♋15'38	9°06'52
direct	-8836 Jun 11 j 07:14	25°♋55'09	
evening set	-8836 Sep 09 j 13:28	27°♋53'24	
conjunction	-8836 Sep 22 j 06:19	28°♋21'49	8°15'55
minimum elong	-8836 Sep 22 j 06:39	28°♋21'51	8°16'26
max. Earth dist.	-8836 Sep 24 j 05:03	28°♋26'12	32.09418 AU
morning rise	-8836 Oct 05 j 00:33	28°♋50'22	
	-8836 Nov 08 j 24:00	0°♌	
retrograde	-8835 Jan 05 j 00:44	0°♌50'29	
	-8835 Mar 06 j 17:10	30°℞♋	
min. Earth dist.	-8835 Mar 24 j 09:25	29°♋33'02	30.20140 AU
opposition	-8835 Mar 26 j 09:40	29°♋29'53	8°30'18
direct	-8835 Jun 13 j 21:59	28°♋09'50	
	-8835 Sep 08 j 19:19	0°♌	
evening set	-8835 Sep 11 j 14:49	0°♌06'08	
conjunction	-8835 Sep 24 j 16:12	0°♌35'06	7°41'38
minimum elong	-8835 Sep 24 j 16:31	0°♌35'08	7°42'08
max. Earth dist.	-8835 Sep 26 j 17:04	0°♌39'39	32.26969 AU
morning rise	-8835 Oct 07 j 19:19	1°♌04'14	
retrograde	-8834 Jan 07 j 11:23	3°♌02'36	
min. Earth dist.	-8834 Mar 26 j 21:11	1°♌45'34	30.37732 AU
opposition	-8834 Mar 28 j 23:26	1°♌42'19	7°53'26
direct	-8834 Jun 16 j 09:34	0°♌22'41	
evening set	-8834 Sep 13 j 16:15	2°♌17'06	
conjunction	-8834 Sep 27 j 01:41	2°♌46'33	7°07'05
minimum elong	-8834 Sep 27 j 01:59	2°♌46'35	7°07'36
max. Earth dist.	-8834 Sep 29 j 05:25	2°♌51'20	32.45150 AU
morning rise	-8834 Oct 10 j 12:39	3°♌16'09	
retrograde	-8833 Jan 09 j 20:16	5°♌12'50	
min. Earth dist.	-8833 Mar 29 j 07:32	3°♌56'16	30.55932 AU
opposition	-8833 Mar 31 j 12:06	3°♌52'52	7°16'20
direct	-8833 Jun 18 j 23:44	2°♌33'38	
evening set	-8833 Sep 15 j 17:48	4°♌26'16	
conjunction	-8833 Sep 29 j 10:14	4°♌56'06	6°32'21
minimum elong	-8833 Sep 29 j 10:30	4°♌56'08	6°32'51
max. Earth dist.	-8833 Oct 01 j 15:11	5°♌00'57	32.63909 AU
morning rise	-8833 Oct 13 j 04:38	5°♌26'07	
retrograde	-8832 Jan 12 j 06:57	7°♌21'09	
min. Earth dist.	-8832 Mar 30 j 17:00	6°♌05'01	30.74738 AU
opposition	-8832 Apr 02 j 00:03	6°♌01'29	6°39'06
direct	-8832 Jun 20 j 10:31	4°♌42'39	
evening set	-8832 Sep 16 j 19:03	6°♌33'33	
conjunction	-8832 Sep 30 j 18:04	7°♌03'43	5°57'29
minimum elong	-8832 Sep 30 j 18:19	7°♌03'44	5°57'59
max. Earth dist.	-8832 Oct 03 j 02:17	7°♌08'49	32.83244 AU
morning rise	-8832 Oct 14 j 18:53	7°♌34'03	
retrograde	-8831 Jan 13 j 14:00	9°♌27'32	
min. Earth dist.	-8831 Apr 02 j 02:35	8°♌11'46	30.94138 AU

Attention, astronomical year style is used: The year -8831 in astronomical counting style is the year 8832 BCE in historical counting style.

opposition	-8831 Apr 04 j 11:09	8°♌08'10	6°01'48
direct	-8831 Jun 22 j 22:22	6°♌49'43	
evening set	-8831 Sep 18 j 20:26	8°♌38'58	
conjunction	-8831 Oct 03 j 01:05	9°♌09'22	5°22'35
minimum elong	-8831 Oct 03 j 01:19	9°♌09'24	5°23'03
max. Earth dist.	-8831 Oct 05 j 10:35	9°♌14'33	33.03181 AU
morning rise	-8831 Oct 17 j 07:53	9°♌39'58	
retrograde	-8830 Jan 15 j 22:38	11°♌31'57	
min. Earth dist.	-8830 Apr 04 j 09:34	10°♌16'41	31.14188 AU
opposition	-8830 Apr 06 j 21:24	10°♌12'53	5°24'30
direct	-8830 Jun 25 j 08:47	8°♌54'50	
evening set	-8830 Sep 20 j 21:36	10°♌42'31	
conjunction	-8830 Oct 05 j 07:27	11°♌13'07	4°47'41
minimum elong	-8830 Oct 05 j 07:39	11°♌13'08	4°48'10
max. Earth dist.	-8830 Oct 07 j 20:11	11°♌18'31	33.23742 AU
morning rise	-8830 Oct 19 j 19:25	11°♌43'53	
retrograde	-8829 Jan 18 j 04:31	13°♌34'28	
min. Earth dist.	-8829 Apr 06 j 17:49	12°♌19'35	31.34891 AU
opposition	-8829 Apr 09 j 06:53	12°♌15'43	4°47'17
direct	-8829 Jun 27 j 20:06	10°♌58'04	
evening set	-8829 Sep 22 j 22:51	12°♌44'16	
conjunction	-8829 Oct 07 j 13:09	13°♌14'59	4°12'52
minimum elong	-8829 Oct 07 j 13:20	13°♌15'00	4°13'19
max. Earth dist.	-8829 Oct 10 j 03:21	13°♌20'29	33.44948 AU
morning rise	-8829 Oct 22 j 05:40	13°♌45'54	
	-8829 Dec 02 j 16:08	15°♌	
retrograde	-8828 Jan 20 j 11:02	15°♌35'07	
	-8828 Mar 11 j 06:37	15°℞♌	
min. Earth dist.	-8828 Apr 07 j 22:58	14°♌20'46	31.56250 AU
opposition	-8828 Apr 10 j 15:15	14°♌16'43	4°10'12
direct	-8828 Jun 29 j 05:40	12°♌59'29	
evening set	-8828 Sep 24 j 00:01	14°♌44'18	
	-8828 Oct 01 j 13:47	15°♌	
conjunction	-8828 Oct 08 j 18:07	15°♌15'05	3°38'12
minimum elong	-8828 Oct 08 j 18:16	15°♌15'06	3°38'39
max. Earth dist.	-8828 Oct 11 j 10:44	15°♌20'45	33.66773 AU
morning rise	-8828 Oct 23 j 14:39	15°♌46'04	
retrograde	-8827 Jan 21 j 14:13	17°♌34'02	
min. Earth dist.	-8827 Apr 10 j 05:41	16°♌20'06	31.78248 AU
opposition	-8827 Apr 12 j 23:12	16°♌15'59	3°33'19
	-8827 Jun 24 j 07:39	15°℞♌	
direct	-8827 Jul 01 j 13:15	14°♌59'12	
	-8827 Jul 08 j 15:08	15°♌	
evening set	-8827 Sep 26 j 00:54	16°♌42'40	
conjunction	-8827 Oct 10 j 22:24	17°♌13'29	3°03'42
minimum elong	-8827 Oct 10 j 22:32	17°♌13'29	3°04'08
max. Earth dist.	-8827 Oct 13 j 17:15	17°♌19'18	33.89196 AU
morning rise	-8827 Oct 25 j 22:13	17°♌44'29	
retrograde	-8826 Jan 23 j 17:12	19°♌31'16	
min. Earth dist.	-8826 Apr 12 j 10:17	18°♌17'50	32.00814 AU
opposition	-8826 Apr 15 j 06:16	18°♌13'36	2°56'42
direct	-8826 Jul 03 j 21:04	16°♌57'15	
evening set	-8826 Sep 28 j 02:00	18°♌39'29	
conjunction	-8826 Oct 13 j 02:04	19°♌10'15	2°29'27
minimum elong	-8826 Oct 13 j 02:10	19°♌10'16	2°29'54
max. Earth dist.	-8826 Oct 15 j 22:15	19°♌16'08	34.12126 AU
morning rise	-8826 Oct 28 j 04:51	19°♌41'14	
retrograde	-8825 Jan 25 j 21:47	21°♌26'54	
min. Earth dist.	-8825 Apr 14 j 15:00	20°♌13'54	32.23894 AU
opposition	-8825 Apr 17 j 12:33	20°♌09'36	2°20'24
direct	-8825 Jul 06 j 01:02	18°♌53'42	
evening set	-8825 Sep 30 j 02:55	20°♌34'45	
conjunction	-8825 Oct 15 j 05:19	21°♌05'26	1°55'30
minimum elong	-8825 Oct 15 j 05:24	21°♌05'27	1°55'54
max. Earth dist.	-8825 Oct 18 j 03:54	21°♌11'28	34.35501 AU
morning rise	-8825 Oct 30 j 10:11	21°♌36'21	
retrograde	-8824 Jan 28 j 00:21	23°♌20'58	
min. Earth dist.	-8824 Apr 15 j 19:29	22°♌08'23	32.47375 AU
opposition	-8824 Apr 18 j 18:08	22°♌04'03	1°44'27
direct	-8824 Jul 07 j 07:39	20°♌48'35	
evening set	-8824 Oct 01 j 03:50	22°♌28'31	
conjunction	-8824 Oct 16 j 07:43	22°♌59'05	1°21'53
minimum elong	-8824 Oct 16 j 07:46	22°♌59'05	1°22'17
max. Earth dist.	-8824 Oct 19 j 06:38	23°♌05'05	34.59216 AU
morning rise	-8824 Oct 31 j 14:25	23°♌29'52	
retrograde	-8823 Jan 29 j 05:33	25°♌13'29	
min. Earth dist.	-8823 Apr 17 j 22:28	24°♌01'22	32.71194 AU
opposition	-8823 Apr 20 j 23:05	23°♌56'56	1°08'55
direct	-8823 Jul 09 j 10:55	22°♌41'52	
evening set	-8823 Oct 03 j 04:43	24°♌20'46	
conjunction	-8823 Oct 18 j 09:50	24°♌51'10	0°48'39
minimum elong	-8823 Oct 18 j 09:52	24°♌51'11	0°49'01
max. Earth dist.	-8823 Oct 21 j 11:01	24°♌57'19	34.83199 AU
morning rise	-8823 Nov 02 j 17:38	25°♌21'48	
retrograde	-8822 Jan 31 j 07:42	27°♌04'28	
min. Earth dist.	-8822 Apr 20 j 02:44	25°♌52'40	32.95258 AU
opposition	-8822 Apr 23 j 03:24	25°♌48'15	0°33'50
direct	-8822 Jul 11 j 15:12	24°♌33'36	
evening set	-8822 Oct 05 j 05:31	26°♌11'30	
conjunction	-8822 Oct 20 j 11:18	26°♌41'42	0°15'50
minimum elong	-8822 Oct 20 j 11:19	26°♌41'42	0°16'12
behind sun begin	-8822 Oct 20 j 10:57	26°♌41'40	
behind sun end	-8822 Oct 20 j 11:40	26°♌41'43	
max. Earth dist.	-8822 Oct 23 j 12:39	26°♌47'48	35.07383 AU
morning rise	-8822 Nov 04 j 19:53	27°♌12'07	
retrograde	-8821 Feb 02 j 09:52	28°♌53'52	
desc. node	-8821 Apr 17 j 01:06	27°♌49'55	
min. Earth dist.	-8821 Apr 22 j 04:13	27°♌42'31	33.19507 AU
opposition	-8821 Apr 25 j 06:56	27°♌38'00	-0°00'46
direct	-8821 Jul 13 j 19:36	26°♌23'43	
evening set	-8821 Oct 07 j 06:17	28°♌00'39	
conjunction	-8821 Oct 22 j 12:13	28°♌30'37	-0°16'38
minimum elong	-8821 Oct 22 j 12:12	28°♌30'37	0°16'17
max. Earth dist.	-8821 Oct 25 j 14:57	28°♌36'47	35.31699 AU
morning rise	-8821 Nov 06 j 21:04	29°♌00'49	
	-8821 Dec 11 j 05:59	0°♍	
retrograde	-8820 Feb 04 j 09:38	0°♍41'40	
	-8820 Apr 02 j 01:54	30°℞♌	
min. Earth dist.	-8820 Apr 23 j 07:12	29°♌30'36	33.43906 AU
opposition	-8820 Apr 26 j 09:48	29°♌26'07	-0°34'53
direct	-8820 Jul 15 j 00:17	28°♌12'12	
evening set	-8820 Oct 08 j 06:45	29°♌48'13	
	-8820 Oct 14 j 09:11	0°♍	
conjunction	-8820 Oct 23 j 12:33	0°♍17'55	-0°48'33
minimum elong	-8820 Oct 23 j 12:31	0°♍17'55	0°48'13
max. Earth dist.	-8820 Oct 26 j 16:06	0°♍24'06	35.56160 AU
morning rise	-8820 Nov 07 j 21:05	0°♍47'50	
retrograde	-8819 Feb 05 j 08:29	2°♍27'52	
min. Earth dist.	-8819 Apr 25 j 07:48	1°♍17'10	33.68459 AU
opposition	-8819 Apr 28 j 11:56	1°♍12'36	-1°08'27
	-8819 Jul 09 j 00:25	30°℞♌	
direct	-8819 Jul 17 j 04:32	29°♌59'02	

Attention, astronomical year style is used: The year -8819 in astronomical counting style is the year 8820 BCE in historical counting style.

	-8819 Jul 25 j 04:04	0°♑	
evening set	-8819 Oct 10 j 07:03	1°♑34'11	
conjunction	-8819 Oct 25 j 12:02	2°♑03'34	-1°20'00
minimum elong	-8819 Oct 25 j 11:59	2°♑03'34	1°19'41
max. Earth dist.	-8819 Oct 28 j 16:17	2°♑09'46	35.80764 AU
morning rise	-8819 Nov 09 j 20:06	2°♑33'12	
retrograde	-8818 Feb 07 j 07:22	4°♑12'27	
min. Earth dist.	-8818 Apr 27 j 08:44	3°♑02'03	33.93210 AU
opposition	-8818 Apr 30 j 13:33	2°♑57'29	-1°41'28
direct	-8818 Jul 19 j 05:40	1°♑44'14	
evening set	-8818 Oct 12 j 07:10	3°♑18'34	
conjunction	-8818 Oct 27 j 11:14	3°♑47'38	-1°50'57
minimum elong	-8818 Oct 27 j 11:10	3°♑47'38	1°50'38
max. Earth dist.	-8818 Oct 30 j 17:22	3°♑53'56	36.05566 AU
morning rise	-8818 Nov 11 j 18:05	4°♑16'56	
retrograde	-8817 Feb 09 j 04:34	5°♑55'27	
min. Earth dist.	-8817 Apr 29 j 08:38	4°♑45'23	34.18176 AU
opposition	-8817 May 02 j 14:11	4°♑40'46	-2°13'54
direct	-8817 Jul 21 j 07:23	3°♑27'51	
evening set	-8817 Oct 14 j 07:16	5°♑01'27	
conjunction	-8817 Oct 29 j 09:42	5°♑30'10	-2°21'22
minimum elong	-8817 Oct 29 j 09:37	5°♑30'09	2°21'04
max. Earth dist.	-8817 Nov 01 j 15:50	5°♑36'25	36.30586 AU
morning rise	-8817 Nov 13 j 15:13	5°♑59'07	
retrograde	-8816 Feb 11 j 04:41	7°♑36'57	
min. Earth dist.	-8816 Apr 30 j 07:05	6°♑27'15	34.43401 AU
opposition	-8816 May 03 j 14:22	6°♑22'35	-2°45'45
direct	-8816 Jul 22 j 05:31	5°♑10'00	
evening set	-8816 Oct 15 j 06:58	6°♑42'54	
conjunction	-8816 Oct 30 j 07:37	7°♑11'15	-2°51'14
minimum elong	-8816 Oct 30 j 07:31	7°♑11'15	2°50'57
max. Earth dist.	-8816 Nov 02 j 15:52	7°♑17'37	36.55843 AU
morning rise	-8816 Nov 14 j 11:09	7°♑39'50	
retrograde	-8815 Feb 12 j 02:04	9°♑17'03	
min. Earth dist.	-8815 May 02 j 06:43	8°♑07'39	34.68866 AU
opposition	-8815 May 05 j 14:00	8°♑03'00	-3°16'58
direct	-8815 Jul 24 j 05:22	6°♑50'47	
evening set	-8815 Oct 17 j 06:41	8°♑23'03	
conjunction	-8815 Nov 01 j 05:06	8°♑51'01	-3°20'32
minimum elong	-8815 Nov 01 j 04:59	8°♑51'00	3°20'15
max. Earth dist.	-8815 Nov 04 j 13:30	8°♑57'20	36.81334 AU
morning rise	-8815 Nov 16 j 06:26	9°♑19'12	
retrograde	-8814 Feb 14 j 00:41	10°♑55'51	
min. Earth dist.	-8814 May 04 j 03:44	9°♑46'52	34.94558 AU
opposition	-8814 May 07 j 12:55	9°♑42'07	-3°47'34
direct	-8814 Jul 26 j 04:54	8°♑30'17	
evening set	-8814 Oct 19 j 06:16	10°♑01'58	
conjunction	-8814 Nov 03 j 02:05	10°♑29'32	-3°49'16
minimum elong	-8814 Nov 03 j 01:57	10°♑29'31	3°49'00
max. Earth dist.	-8814 Nov 06 j 11:52	10°♑35'55	37.07002 AU
morning rise	-8814 Nov 18 j 00:53	10°♑57'18	
retrograde	-8813 Feb 15 j 21:50	12°♑33'26	
min. Earth dist.	-8813 May 06 j 02:27	11°♑24'45	35.20420 AU
opposition	-8813 May 09 j 11:25	11°♑20'03	-4°17'32
direct	-8813 Jul 28 j 04:02	10°♑08'35	
evening set	-8813 Oct 21 j 05:42	11°♑39'45	
conjunction	-8813 Nov 04 j 22:42	12°♑06'53	-4°17'25
minimum elong	-8813 Nov 04 j 22:32	12°♑06'52	4°17'11
max. Earth dist.	-8813 Nov 08 j 09:07	12°♑13'16	37.32800 AU
morning rise	-8813 Nov 19 j 18:25	12°♑34'13	
retrograde	-8812 Feb 17 j 16:41	14°♑09'53	
min. Earth dist.	-8812 May 06 j 23:05	13°♑01'36	35.46373 AU
opposition	-8812 May 10 j 09:08	12°♑56'51	-4°46'51
direct	-8812 Jul 29 j 03:28	11°♑45'45	
evening set	-8812 Oct 22 j 05:10	13°♑16'26	
conjunction	-8812 Nov 05 j 18:45	13°♑43'07	-4°44'59
minimum elong	-8812 Nov 05 j 18:35	13°♑43'06	4°44'46
max. Earth dist.	-8812 Nov 09 j 05:12	13°♑49'28	37.58643 AU
morning rise	-8812 Nov 20 j 11:21	14°♑10'01	
retrograde	-8811 Feb 18 j 12:16	15°♑45'15	
min. Earth dist.	-8811 May 08 j 20:22	14°♑37'17	35.72369 AU
opposition	-8811 May 12 j 06:35	14°♑32'33	-5°15'32
direct	-8811 Jul 31 j 00:21	13°♑21'49	
evening set	-8811 Oct 24 j 04:20	14°♑52'03	
conjunction	-8811 Nov 07 j 14:32	15°♑18'16	-5°11'57
minimum elong	-8811 Nov 07 j 14:21	15°♑18'16	5°11'45
max. Earth dist.	-8811 Nov 11 j 02:15	15°♑24'40	37.84476 AU
morning rise	-8811 Nov 22 j 03:23	15°♑44'43	
retrograde	-8810 Feb 20 j 07:04	17°♑19'33	
min. Earth dist.	-8810 May 10 j 17:32	16°♑11'52	35.98309 AU
opposition	-8810 May 14 j 03:27	16°♑07'11	-5°43'34
direct	-8810 Aug 01 j 21:23	14°♑56'47	
evening set	-8810 Oct 26 j 03:44	16°♑26'36	
conjunction	-8810 Nov 09 j 09:57	16°♑52'21	-5°38'21
minimum elong	-8810 Nov 09 j 09:46	16°♑52'20	5°38'10
max. Earth dist.	-8810 Nov 12 j 20:43	16°♑58'38	38.10215 AU
morning rise	-8810 Nov 23 j 19:00	17°♑18'18	
retrograde	-8809 Feb 22 j 03:57	18°♑52'46	
min. Earth dist.	-8809 May 12 j 12:57	17°♑45'25	36.24149 AU
opposition	-8809 May 15 j 23:41	17°♑40'42	-6°10'58
direct	-8809 Aug 03 j 15:46	16°♑30'37	
evening set	-8809 Oct 28 j 02:50	18°♑00'03	
conjunction	-8809 Nov 11 j 04:58	18°♑25'19	-6°04'10
minimum elong	-8809 Nov 11 j 04:46	18°♑25'18	6°03'58
max. Earth dist.	-8809 Nov 14 j 16:42	18°♑31'37	38.35814 AU
morning rise	-8809 Nov 25 j 09:46	18°♑50'47	
retrograde	-8808 Feb 23 j 23:01	20°♑24'53	
min. Earth dist.	-8808 May 13 j 09:57	19°♑17'44	36.49840 AU
opposition	-8808 May 16 j 19:35	19°♑13'06	-6°37'44
direct	-8808 Aug 04 j 12:08	18°♑03'19	
evening set	-8808 Oct 29 j 01:41	19°♑32'23	
conjunction	-8808 Nov 11 j 23:24	19°♑57'09	-6°29'23
minimum elong	-8808 Nov 11 j 23:12	19°♑57'08	6°29'13
max. Earth dist.	-8808 Nov 15 j 10:32	20°♑03'21	38.61269 AU
morning rise	-8808 Nov 25 j 23:40	20°♑22'06	
retrograde	-8807 Feb 24 j 18:29	21°♑55'50	
min. Earth dist.	-8807 May 15 j 04:19	20°♑49'00	36.75392 AU
opposition	-8807 May 18 j 14:56	20°♑44'20	-7°03'52
direct	-8807 Aug 06 j 08:21	19°♑34'50	
evening set	-8807 Oct 31 j 00:30	21°♑03'33	
conjunction	-8807 Nov 13 j 17:26	21°♑27'48	-6°54'01
minimum elong	-8807 Nov 13 j 17:13	21°♑27'47	6°53'51
max. Earth dist.	-8807 Nov 17 j 04:57	21°♑33'59	38.86584 AU
morning rise	-8807 Nov 27 j 13:04	21°♑52'13	
retrograde	-8806 Feb 26 j 11:57	23°♑25'39	
min. Earth dist.	-8806 May 16 j 23:55	22°♑18'59	37.00850 AU
opposition	-8806 May 20 j 09:48	22°♑14'23	-7°29'21
direct	-8806 Aug 08 j 03:54	21°♑05'09	
evening set	-8806 Nov 01 j 23:02	22°♑33'33	
conjunction	-8806 Nov 15 j 11:10	22°♑57'16	-7°18'03

Attention, astronomical year style is used: The year -8806 in astronomical counting style is the year 8807 BCE in historical counting style.

minimum elong	-8806 Nov 15 j 10:58	22°♑57'15	7°17'55
max. Earth dist.	-8806 Nov 18 j 23:15	23°♑03'28	39.11826 AU
morning rise	-8806 Nov 29 j 01:37	23°♑21'10	
retrograde	-8805 Feb 28 j 01:58	24°♑54'17	
min. Earth dist.	-8805 May 18 j 17:42	23°♑47'54	37.26243 AU
opposition	-8805 May 22 j 04:03	23°♑43'16	-7°54'11
direct	-8805 Aug 10 j 01:03	22°♑34'18	
evening set	-8805 Nov 03 j 21:34	24°♑02'24	
conjunction	-8805 Nov 17 j 04:17	24°♑25'35	-7°41'28
minimum elong	-8805 Nov 17 j 04:03	24°♑25'34	7°41'21
max. Earth dist.	-8805 Nov 20 j 15:47	24°♑31'42	39.37016 AU
morning rise	-8805 Nov 30 j 13:33	24°♑48'57	
retrograde	-8804 Feb 29 j 18:12	26°♑21'49	
min. Earth dist.	-8804 May 19 j 11:08	25°♑15'40	37.51631 AU
opposition	-8804 May 22 j 21:54	25°♑11'03	-8°18'22
direct	-8804 Aug 10 j 19:01	24°♑02'21	
evening set	-8804 Nov 04 j 19:46	25°♑30'12	
conjunction	-8804 Nov 17 j 21:10	25°♑52'50	-8°04'18
minimum elong	-8804 Nov 17 j 20:56	25°♑52'49	8°04'12
max. Earth dist.	-8804 Nov 21 j 10:06	25°♑59'01	39.62213 AU
morning rise	-8804 Dec 01 j 00:46	26°♑15'38	
retrograde	-8803 Mar 02 j 09:47	27°♑48'17	
min. Earth dist.	-8803 May 21 j 05:04	26°♑42'22	37.77022 AU
opposition	-8803 May 24 j 15:21	26°♑37'47	-8°41'54
direct	-8803 Aug 12 j 12:46	25°♑29'21	
evening set	-8803 Nov 06 j 17:56	26°♑57'00	
conjunction	-8803 Nov 19 j 13:33	27°♑19'05	-8°26'31
minimum elong	-8803 Nov 19 j 13:18	27°♑19'04	8°26'25
max. Earth dist.	-8803 Nov 23 j 01:47	27°♑25'10	39.87418 AU
morning rise	-8803 Dec 02 j 11:24	27°♑41'19	
retrograde	-8802 Mar 04 j 03:54	29°♑13'47	
min. Earth dist.	-8802 May 22 j 20:54	28°♑08'10	38.02420 AU
opposition	-8802 May 26 j 08:22	28°♑03'33	-9°04'47
direct	-8802 Aug 14 j 04:20	26°♑55'24	
evening set	-8802 Nov 08 j 16:00	28°♑22'52	
conjunction	-8802 Nov 21 j 05:43	28°♑44'24	-8°48'08
minimum elong	-8802 Nov 21 j 05:29	28°♑44'23	8°48'04
max. Earth dist.	-8802 Nov 24 j 18:52	28°♑50'30	40.12599 AU
morning rise	-8802 Dec 03 j 21:36	29°♑06'05	
	-8801 Jan 08 j 07:16	0°♎	
retrograde	-8801 Mar 05 j 20:39	0°♎38'22	
	-8801 May 03 j 06:29	30°℞♑	
min. Earth dist.	-8801 May 24 j 14:29	29°♑32'58	38.27782 AU
opposition	-8801 May 28 j 00:56	29°♑28'25	-9°27'01
direct	-8801 Aug 15 j 20:46	28°♑20'33	
evening set	-8801 Nov 10 j 13:59	29°♑47'53	
	-8801 Nov 17 j 17:34	0°♎	
conjunction	-8801 Nov 22 j 21:35	0°♎08'51	-9°09'10
minimum elong	-8801 Nov 22 j 21:21	0°♎08'50	9°09'05
max. Earth dist.	-8801 Nov 26 j 10:30	0°♎14'54	40.37730 AU
morning rise	-8801 Dec 05 j 07:04	0°♎29'57	
retrograde	-8800 Mar 06 j 12:32	2°♎02'07	
min. Earth dist.	-8800 May 25 j 06:00	0°♎57'01	38.53053 AU
opposition	-8800 May 28 j 17:06	0°♎52'27	-9°48'38
	-8800 Jul 13 j 02:57	30°℞♑	
direct	-8800 Aug 16 j 13:45	29°♑44'52	
	-8800 Sep 19 j 08:52	0°♎	
evening set	-8800 Nov 11 j 11:49	1°♎12'06	
conjunction	-8800 Nov 23 j 12:53	1°♎32'29	-9°29'37
minimum elong	-8800 Nov 23 j 12:38	1°♎32'28	9°29'35
max. Earth dist.	-8800 Nov 27 j 01:31	1°♎38'29	40.62730 AU
morning rise	-8800 Dec 05 j 16:02	1°♎53'01	
retrograde	-8799 Mar 08 j 03:17	3°♎25'06	
min. Earth dist.	-8799 May 26 j 22:41	2°♎20'13	38.78184 AU
opposition	-8799 May 30 j 09:07	2°♎15'43	-10°09'38
direct	-8799 Aug 18 j 06:03	1°♎08'25	
evening set	-8799 Nov 13 j 09:41	2°♎35'34	
conjunction	-8799 Nov 25 j 04:17	2°♎55'22	-9°49'31
minimum elong	-8799 Nov 25 j 04:02	2°♎55'21	9°49'27
max. Earth dist.	-8799 Nov 28 j 17:26	3°♎01'22	40.87551 AU
morning rise	-8799 Dec 07 j 00:33	3°♎15'18	
retrograde	-8798 Mar 09 j 15:40	4°♎47'19	
min. Earth dist.	-8798 May 28 j 14:45	3°♎42'40	39.03082 AU
opposition	-8798 Jun 01 j 00:32	3°♎38'13	-10°30'02
direct	-8798 Aug 19 j 23:48	2°♎31'11	
evening set	-8798 Nov 15 j 07:42	3°♎58'17	
conjunction	-8798 Nov 26 j 19:19	4°♎17'29	-10°08'51
minimum elong	-8798 Nov 26 j 19:03	4°♎17'28	10°08'49
max. Earth dist.	-8798 Nov 30 j 06:51	4°♎23'21	41.12108 AU
morning rise	-8798 Dec 08 j 08:44	4°♎36'50	
retrograde	-8797 Mar 11 j 07:50	6°♎08'47	
min. Earth dist.	-8797 May 30 j 05:56	5°♎04'23	39.27701 AU
opposition	-8797 Jun 02 j 15:45	4°♎59'57	-10°49'51
direct	-8797 Aug 21 j 13:37	3°♎53'11	
evening set	-8797 Nov 17 j 05:27	5°♎20'14	
conjunction	-8797 Nov 28 j 10:04	5°♎38'51	-10°27'38
minimum elong	-8797 Nov 28 j 09:50	5°♎38'50	10°27'37
max. Earth dist.	-8797 Dec 01 j 22:01	5°♎44'42	41.36347 AU
morning rise	-8797 Dec 09 j 16:16	5°♎57'35	
retrograde	-8796 Mar 11 j 22:18	7°♎29'31	
min. Earth dist.	-8796 May 30 j 22:28	6°♎25'15	39.51979 AU
opposition	-8796 Jun 03 j 06:37	6°♎20'55	-11°09'07
direct	-8796 Aug 22 j 04:14	5°♎14'24	
evening set	-8796 Nov 18 j 03:15	6°♎41'25	
conjunction	-8796 Nov 29 j 00:32	6°♎59'26	-10°45'54
minimum elong	-8796 Nov 29 j 00:17	6°♎59'25	10°45'54
max. Earth dist.	-8796 Dec 02 j 11:13	7°♎05'09	41.60261 AU
morning rise	-8796 Dec 09 j 23:14	7°♎17'33	
retrograde	-8795 Mar 13 j 13:21	8°♎49'26	
min. Earth dist.	-8795 Jun 01 j 12:32	7°♎45'25	39.75931 AU
opposition	-8795 Jun 04 j 21:04	7°♎41'05	-11°27'48
direct	-8795 Aug 23 j 18:40	6°♎34'46	
evening set	-8795 Nov 20 j 00:50	8°♎01'47	
conjunction	-8795 Nov 30 j 14:34	8°♎19'11	-11°03'38
minimum elong	-8795 Nov 30 j 14:19	8°♎19'10	11°03'39
max. Earth dist.	-8795 Dec 04 j 00:54	8°♎24'51	41.83848 AU
morning rise	-8795 Dec 11 j 05:47	8°♎36'41	
retrograde	-8794 Mar 15 j 03:10	10°♎08'33	
min. Earth dist.	-8794 Jun 03 j 04:06	9°♎04'39	39.99585 AU
opposition	-8794 Jun 06 j 11:17	9°♎00'24	-11°45'56
direct	-8794 Aug 25 j 09:41	7°♎54'19	
evening set	-8794 Nov 21 j 22:26	9°♎21'21	
conjunction	-8794 Dec 02 j 04:29	9°♎38'07	-11°20'51
minimum elong	-8794 Dec 02 j 04:14	9°♎38'06	11°20'53
max. Earth dist.	-8794 Dec 05 j 14:44	9°♎43'45	42.07167 AU
morning rise	-8794 Dec 12 j 11:40	9°♎54'58	
retrograde	-8793 Mar 16 j 14:01	11°♎26'51	
min. Earth dist.	-8793 Jun 04 j 17:54	10°♎23'09	40.22980 AU
opposition	-8793 Jun 08 j 00:48	10°♎18'55	-12°03'29
direct	-8793 Aug 27 j 02:08	9°♎13'02	
evening set	-8793 Nov 23 j 20:03	10°♎40'07	

Attention, astronomical year style is used: The year -8793 in astronomical counting style is the year 8794 BCE in historical counting style.

conjunction	-8793 Dec 03 j 17:54	10°♎56'14	-11°37'31
minimum elong	-8793 Dec 03 j 17:40	10°♎56'13	11°37'33
max. Earth dist.	-8793 Dec 07 j 03:02	11°♎01'46	42.30257 AU
morning rise	-8793 Dec 13 j 17:04	11°♎12'28	
retrograde	-8792 Mar 17 j 02:33	12°♎44'23	
min. Earth dist.	-8792 Jun 05 j 07:29	11°♎40'52	40.46191 AU
opposition	-8792 Jun 08 j 14:16	11°♎36'40	-12°20'29
direct	-8792 Aug 27 j 15:46	10°♎31'00	
evening set	-8792 Nov 24 j 17:16	11°♎58'07	
conjunction	-8792 Dec 04 j 07:01	12°♎13'37	-11°53'39
minimum elong	-8792 Dec 04 j 06:46	12°♎13'36	11°53'42
max. Earth dist.	-8792 Dec 07 j 17:02	12°♎19'10	42.53179 AU
morning rise	-8792 Dec 13 j 21:45	12°♎29'12	
retrograde	-8791 Mar 18 j 14:27	14°♎01'11	
min. Earth dist.	-8791 Jun 06 j 21:36	12°♎57'49	40.69233 AU
opposition	-8791 Jun 10 j 03:24	12°♎53'40	-12°36'55
direct	-8791 Aug 29 j 05:44	11°♎48'13	
evening set	-8791 Nov 26 j 14:51	13°♎15'26	
conjunction	-8791 Dec 05 j 19:59	13°♎30'17	-12°09'15
minimum elong	-8791 Dec 05 j 19:45	13°♎30'17	12°09'19
max. Earth dist.	-8791 Dec 09 j 04:44	13°♎35'44	42.75954 AU
morning rise	-8791 Dec 15 j 02:04	13°♎45'13	
retrograde	-8790 Mar 20 j 05:38	15°♎17'17	
min. Earth dist.	-8790 Jun 08 j 09:40	14°♎14'10	40.92129 AU
opposition	-8790 Jun 11 j 16:04	14°♎10'01	-12°52'47
direct	-8790 Aug 30 j 16:00	13°♎04'47	
evening set	-8790 Nov 28 j 12:17	14°♎32'08	
conjunction	-8790 Dec 07 j 08:42	14°♎46'20	-12°24'20
minimum elong	-8790 Dec 07 j 08:27	14°♎46'19	12°24'24
max. Earth dist.	-8790 Dec 10 j 17:39	14°♎51'45	42.98567 AU
morning rise	-8790 Dec 16 j 06:01	15°♎00'35	
retrograde	-8789 Mar 21 j 18:44	16°♎32'47	
min. Earth dist.	-8789 Jun 09 j 23:43	15°♎29'49	41.14853 AU
opposition	-8789 Jun 13 j 04:40	15°♎25'45	-13°08'06
direct	-8789 Sep 01 j 03:41	14°♎20'45	
evening set	-8789 Nov 30 j 09:47	15°♎48'16	
conjunction	-8789 Dec 08 j 21:09	16°♎01'47	-12°38'54
minimum elong	-8789 Dec 08 j 20:55	16°♎01'46	12°39'00
max. Earth dist.	-8789 Dec 12 j 05:48	16°♎07'10	43.21003 AU
morning rise	-8789 Dec 17 j 09:10	16°♎15'21	
retrograde	-8788 Mar 22 j 05:48	17°♎47'42	
min. Earth dist.	-8788 Jun 10 j 11:43	16°♎44'58	41.37360 AU
opposition	-8788 Jun 13 j 16:48	16°♎40'55	-13°22'54
direct	-8788 Sep 01 j 17:56	15°♎36'08	
evening set	-8788 Dec 01 j 07:25	17°♎03'51	
conjunction	-8788 Dec 09 j 09:19	17°♎16'42	-12°52'58
minimum elong	-8788 Dec 09 j 09:05	17°♎16'41	12°53'04
max. Earth dist.	-8788 Dec 12 j 16:49	17°♎21'58	43.43200 AU
morning rise	-8788 Dec 17 j 11:58	17°♎29'34	
retrograde	-8787 Mar 23 j 17:04	19°♎02'06	
min. Earth dist.	-8787 Jun 12 j 00:36	17°♎59'33	41.59617 AU
opposition	-8787 Jun 15 j 04:50	17°♎55'33	-13°37'10
direct	-8787 Sep 03 j 06:57	16°♎51'00	
evening set	-8787 Dec 03 j 05:12	18°♎18'57	
conjunction	-8787 Dec 10 j 21:30	18°♎31'05	-13°06'34
minimum elong	-8787 Dec 10 j 21:17	18°♎31'04	13°06'41
max. Earth dist.	-8787 Dec 14 j 05:15	18°♎36'21	43.65110 AU
morning rise	-8787 Dec 18 j 14:17	18°♎43'15	
retrograde	-8786 Mar 25 j 02:42	20°♎16'00	
min. Earth dist.	-8786 Jun 13 j 13:42	19°♎13'35	41.81529 AU
opposition	-8786 Jun 16 j 16:34	19°♎09'40	-13°50'57
direct	-8786 Sep 04 j 20:51	18°♎05'20	
evening set	-8786 Dec 05 j 03:25	19°♎33'31	
conjunction	-8786 Dec 12 j 09:29	19°♎44'56	-13°19'41
minimum elong	-8786 Dec 12 j 09:15	19°♎44'55	13°19'48
max. Earth dist.	-8786 Dec 15 j 15:13	19°♎50'02	43.86651 AU
morning rise	-8786 Dec 19 j 16:00	19°♎56'23	
retrograde	-8785 Mar 26 j 15:02	21°♎29'21	
min. Earth dist.	-8785 Jun 15 j 01:19	20°♎27'08	42.03052 AU
opposition	-8785 Jun 18 j 03:57	20°♎23'15	-14°04'15
direct	-8785 Sep 06 j 07:43	19°♎19'06	
evening set	-8785 Dec 07 j 01:43	20°♎47'33	
conjunction	-8785 Dec 13 j 21:16	20°♎58'14	-13°32'22
minimum elong	-8785 Dec 13 j 21:03	20°♎58'13	13°32'31
max. Earth dist.	-8785 Dec 17 j 02:48	21°♎03'18	44.07769 AU
morning rise	-8785 Dec 20 j 17:10	21°♎08'56	
retrograde	-8784 Mar 27 j 03:56	22°♎42'10	
min. Earth dist.	-8784 Jun 15 j 14:43	21°♎40'01	42.24130 AU
opposition	-8784 Jun 18 j 15:19	21°♎36'14	-14°17'05
direct	-8784 Sep 06 j 17:54	20°♎32'16	
evening set	-8784 Dec 08 j 00:21	22°♎01'01	
conjunction	-8784 Dec 14 j 08:43	22°♎10'56	-13°44'36
minimum elong	-8784 Dec 14 j 08:31	22°♎10'55	13°44'44
max. Earth dist.	-8784 Dec 17 j 12:51	22°♎15'53	44.28454 AU
morning rise	-8784 Dec 20 j 17:18	22°♎20'51	
retrograde	-8783 Mar 28 j 16:07	23°♎54'21	
min. Earth dist.	-8783 Jun 17 j 01:51	22°♎52'21	42.44758 AU
opposition	-8783 Jun 20 j 02:19	22°♎48'36	-14°29'28
direct	-8783 Sep 08 j 04:10	21°♎44'47	
evening set	-8783 Dec 09 j 23:27	23°♎13'53	
conjunction	-8783 Dec 15 j 20:00	23°♎22'59	-13°56'25
minimum elong	-8783 Dec 15 j 19:47	23°♎22'58	13°56'34
max. Earth dist.	-8783 Dec 18 j 22:50	23°♎27'49	44.48696 AU
morning rise	-8783 Dec 21 j 16:45	23°♎32'05	
retrograde	-8782 Mar 30 j 01:57	25°♎05'53	
min. Earth dist.	-8782 Jun 18 j 14:13	24°♎03'58	42.64977 AU
opposition	-8782 Jun 21 j 13:03	24°♎00'18	-14°41'23
direct	-8782 Sep 09 j 16:20	22°♎56'38	
evening set	-8782 Dec 11 j 23:14	24°♎26'07	
conjunction	-8782 Dec 17 j 07:10	24°♎34'21	-14°07'47
minimum elong	-8782 Dec 17 j 06:59	24°♎34'20	14°07'57
max. Earth dist.	-8782 Dec 20 j 09:59	24°♎39'11	44.68558 AU
morning rise	-8782 Dec 22 j 15:08	24°♎42'36	
retrograde	-8781 Mar 31 j 08:52	26°♎16'46	
min. Earth dist.	-8781 Jun 20 j 01:29	25°♎14'56	42.84824 AU
opposition	-8781 Jun 22 j 23:26	25°♎11'20	-14°52'51
direct	-8781 Sep 11 j 06:26	24°♎07'48	
evening set	-8781 Dec 13 j 23:41	25°♎37'44	
conjunction	-8781 Dec 18 j 17:47	25°♎45'04	-14°18'42
minimum elong	-8781 Dec 18 j 17:35	25°♎45'03	14°18'54
max. Earth dist.	-8781 Dec 21 j 18:48	25°♎49'45	44.88088 AU
morning rise	-8781 Dec 23 j 11:54	25°♎52'23	
retrograde	-8780 Mar 31 j 19:01	27°♎27'00	
min. Earth dist.	-8780 Jun 20 j 11:47	26°♎25'19	43.04382 AU
opposition	-8780 Jun 23 j 09:38	26°♎21'43	-15°03'51
direct	-8780 Sep 11 j 17:00	25°♎18'19	
evening set	-8780 Dec 15 j 01:24	26°♎48'50	
conjunction	-8780 Dec 19 j 04:23	26°♎55'09	-14°29'11
minimum elong	-8780 Dec 19 j 04:12	26°♎55'09	14°29'23
max. Earth dist.	-8780 Dec 22 j 05:44	26°♎59'50	45.07353 AU
morning rise	-8780 Dec 23 j 07:17	27°♎01'28	

Attention, astronomical year style is used: The year -8779 in astronomical counting style is the year 8780 BCE in historical counting style.

retrograde	-8779 Apr 02 j 04:41	28°♎36'38		
min. Earth dist.	-8779 Jun 21 j 23:21	27°♎35'01	43.23687 AU	
opposition	-8779 Jun 24 j 19:34	27°♎31'31	-15°14'23	
direct	-8779 Sep 13 j 03:35	26°♎28'16		
evening set	-8779 Dec 17 j 05:19	27°♎59'30		
conjunction	-8779 Dec 20 j 14:46	28°♎04'41	-14°39'13	
minimum elong	-8779 Dec 20 j 14:34	28°♎04'40	14°39'25	
morning rise	-8779 Dec 24 j 00:01	28°♎09'51		
max. Earth dist.	-8779 Dec 23 j 14:59	28°♎09'17	45.26399 AU	
retrograde	-8778 Apr 03 j 16:03	29°♎45'43		
min. Earth dist.	-8778 Jun 23 j 08:42	28°♎44'17	43.42767 AU	
opposition	-8778 Jun 26 j 05:15	28°♎40'47	-15°24'27	
direct	-8778 Sep 14 j 12:12	27°♎37'41		
evening set	-8778 Dec 19 j 13:10	29°♎09'56		
conjunction	-8778 Dec 22 j 00:56	29°♎13'44	-14°48'49	
minimum elong	-8778 Dec 22 j 00:46	29°♎13'43	14°49'01	
morning rise	-8778 Dec 24 j 12:30	29°♎17'30		
max. Earth dist.	-8778 Dec 25 j 00:28	29°♎18'16	45.45213 AU	
	-8777 Jan 22 j 15:26	0°♏		
retrograde	-8777 Apr 05 j 03:06	0°♏54'21		
	-8777 Jun 19 j 01:43	30°℞♎		
min. Earth dist.	-8777 Jun 24 j 19:33	29°♎53'01	43.61624 AU	
opposition	-8777 Jun 27 j 14:44	29°♎49'35	-15°34'03	
direct	-8777 Sep 15 j 20:47	28°♎46'40		
	-8777 Dec 08 j 13:51	0°♏		
evening set	-8777 Dec 22 j 10:30	0°♏20'48		
conjunction	-8777 Dec 23 j 11:00	0°♏22'21	-14°57'58	
minimum elong	-8777 Dec 23 j 10:48	0°♏22'20	14°58'11	
morning rise	-8777 Dec 24 j 11:09	0°♏23'52		
max. Earth dist.	-8777 Dec 26 j 10:26	0°♏26'52	45.63812 AU	
retrograde	-8776 Apr 05 j 10:28	2°♏02'34		
min. Earth dist.	-8776 Jun 25 j 05:19	1°♏01'24	43.80224 AU	
opposition	-8776 Jun 27 j 23:59	0°♏58'01	-15°43'13	
	-8776 Aug 27 j 10:35	30°℞♎		
direct	-8776 Sep 16 j 08:19	29°♎55'16		
	-8776 Oct 06 j 02:02	0°♏		
conjunction	-8776 Dec 23 j 20:40	1°♏30'36	-15°06'42	
minimum elong	-8776 Dec 23 j 20:31	1°♏30'35	15°06'56	
max. Earth dist.	-8776 Dec 26 j 18:26	1°♏34'59	45.82142 AU	
retrograde	-8775 Apr 06 j 19:05	3°♏10'27		
min. Earth dist.	-8775 Jun 26 j 15:08	2°♏09'26	43.98542 AU	
opposition	-8775 Jun 29 j 09:11	2°♏06'05	-15°51'57	
direct	-8775 Sep 17 j 18:21	1°♏03'32		
conjunction	-8775 Dec 25 j 06:31	2°♏38'31	-15°15'02	
minimum elong	-8775 Dec 25 j 06:21	2°♏38'31	15°15'16	
max. Earth dist.	-8775 Dec 28 j 04:24	2°♏42'54	46.00151 AU	
retrograde	-8774 Apr 08 j 03:53	4°♏18'01		
min. Earth dist.	-8774 Jun 28 j 01:54	3°♏17'06	44.16494 AU	
opposition	-8774 Jun 30 j 18:03	3°♏13'51	-16°00'16	
direct	-8774 Sep 19 j 04:16	2°♏11'28		
conjunction	-8774 Dec 26 j 16:15	3°♏46'08	-15°22'59	
minimum elong	-8774 Dec 26 j 16:07	3°♏46'08	15°23'14	
max. Earth dist.	-8774 Dec 29 j 12:12	3°♏50'23	46.17780 AU	
retrograde	-8773 Apr 09 j 15:32	5°♏25'16		
min. Earth dist.	-8773 Jun 29 j 10:51	4°♏24'31	44.34028 AU	
opposition	-8773 Jul 02 j 02:47	4°♏21'18	-16°08'12	
direct	-8773 Sep 20 j 10:54	3°♏19'04		
conjunction	-8773 Dec 28 j 01:40	4°♏53'25	-15°30'33	
minimum elong	-8773 Dec 28 j 01:30	4°♏53'25	15°30'49	
max. Earth dist.	-8773 Dec 30 j 20:29	4°♏57'35	46.34952 AU	

retrograde	-8772 Apr 10 j 01:25	6°♏32'11		
min. Earth dist.	-8772 Jun 29 j 21:45	5°♏31'30	44.51093 AU	
opposition	-8772 Jul 02 j 11:32	5°♏28'23	-16°15'45	
direct	-8772 Sep 20 j 18:56	4°♏26'18		
conjunction	-8772 Dec 28 j 11:09	6°♏00'20	-15°37'46	
minimum elong	-8772 Dec 28 j 11:01	6°♏00'19	15°38'03	
max. Earth dist.	-8772 Dec 31 j 05:12	6°♏04'25	46.51662 AU	
retrograde	-8771 Apr 11 j 08:44	7°♏38'43		
min. Earth dist.	-8771 Jul 01 j 06:56	6°♏38'08	44.67668 AU	
opposition	-8771 Jul 03 j 19:54	6°♏35'04	-16°22'56	
direct	-8771 Sep 22 j 05:35	5°♏33'06		
conjunction	-8771 Dec 29 j 20:20	7°♏06'48	-15°44'38	
minimum elong	-8771 Dec 29 j 20:12	7°♏06'48	15°44'54	
max. Earth dist.	-8770 Jan 01 j 12:05	7°♏10'45	46.67894 AU	
retrograde	-8770 Apr 12 j 16:26	8°♏44'48		
min. Earth dist.	-8770 Jul 02 j 16:18	7°♏44'18	44.83790 AU	
opposition	-8770 Jul 05 j 04:12	7°♏41'18	-16°29'45	
direct	-8770 Sep 23 j 15:29	6°♏39'27		
conjunction	-8770 Dec 31 j 05:27	8°♏12'48	-15°51'08	
minimum elong	-8770 Dec 31 j 05:20	8°♏12'48	15°51'26	
max. Earth dist.	-8769 Jan 02 j 21:06	8°♏16'44	46.83689 AU	
retrograde	-8769 Apr 13 j 22:07	9°♏50'26		
min. Earth dist.	-8769 Jul 04 j 02:04	8°♏49'58	44.99490 AU	
opposition	-8769 Jul 06 j 12:09	8°♏47'03	-16°36'11	
direct	-8769 Sep 25 j 02:09	7°♏45'18		
conjunction	-8768 Jan 01 j 14:16	9°♏18'20	-15°57'15	
minimum elong	-8768 Jan 01 j 14:09	9°♏18'19	15°57'33	
max. Earth dist.	-8768 Jan 04 j 04:07	9°♏22'07	46.99118 AU	
retrograde	-8768 Apr 14 j 07:15	10°♏55'36		
min. Earth dist.	-8768 Jul 04 j 09:50	9°♏55'14	45.14852 AU	
opposition	-8768 Jul 06 j 19:57	9°♏52'20	-16°42'14	
direct	-8768 Sep 25 j 09:42	8°♏50'41		
conjunction	-8767 Jan 01 j 22:47	10°♏23'23	-16°03'01	
minimum elong	-8767 Jan 01 j 22:40	10°♏23'23	16°03'20	
max. Earth dist.	-8767 Jan 04 j 12:08	10°♏27'08	47.14223 AU	
retrograde	-8767 Apr 15 j 18:02	12°♏00'18		
min. Earth dist.	-8767 Jul 05 j 19:25	10°♏59'58	45.29916 AU	
opposition	-8767 Jul 08 j 03:44	10°♏57'10	-16°47'54	
direct	-8767 Sep 26 j 15:25	9°♏55'36		
conjunction	-8766 Jan 03 j 07:26	11°♏28'01	-16°08'24	
minimum elong	-8766 Jan 03 j 07:20	11°♏28'01	16°08'43	
max. Earth dist.	-8766 Jan 05 j 20:11	11°♏31'43	47.29064 AU	
retrograde	-8766 Apr 17 j 01:42	13°♏04'34		
min. Earth dist.	-8766 Jul 07 j 02:57	12°♏04'22	45.44705 AU	
opposition	-8766 Jul 09 j 11:05	12°♏01'34	-16°53'11	
direct	-8766 Sep 27 j 23:02	11°♏00'07		
conjunction	-8765 Jan 04 j 15:47	12°♏32'15	-16°13'25	
minimum elong	-8765 Jan 04 j 15:40	12°♏32'15	16°13'45	
max. Earth dist.	-8765 Jan 07 j 02:51	12°♏35'50	47.43641 AU	
retrograde	-8765 Apr 18 j 08:36	14°♏08'29		
min. Earth dist.	-8765 Jul 08 j 11:24	13°♏08'21	45.59244 AU	
opposition	-8765 Jul 10 j 18:33	13°♏05'37	-16°58'04	
direct	-8765 Sep 29 j 07:39	12°♏04'17		
conjunction	-8764 Jan 05 j 23:58	13°♏36'09	-16°18'04	
minimum elong	-8764 Jan 05 j 23:53	13°♏36'09	16°18'24	
max. Earth dist.	-8764 Jan 08 j 11:21	13°♏39'45	47.57962 AU	
	-8764 Mar 16 j 04:24	15°♏		
retrograde	-8764 Apr 18 j 12:53	15°♏12'05		
	-8764 May 22 j 07:07	15°℞♏		

Attention, astronomical year style is used: The year -8764 in astronomical counting style is the year 8765 BCE in historical counting style.

min. Earth dist.	-8764 Jul 08 j 19:56	14°♏12'02	45.73494 AU	
opposition	-8764 Jul 11 j 01:48	14°♏09'21	-17°02'36	
direct	-8764 Sep 29 j 18:22	13°♏08'10		
conjunction	-8763 Jan 06 j 08:05	14°♏39'46	-16°22'21	
minimum elong	-8763 Jan 06 j 07:59	14°♏39'45	16°22'42	
max. Earth dist.	-8763 Jan 08 j 17:31	14°♏43'14	47.71999 AU	
	-8763 Jan 20 j 10:02	15°♏		
retrograde	-8763 Apr 19 j 21:15	16°♏15'24		
min. Earth dist.	-8763 Jul 10 j 03:08	15°♏15'30	45.87437 AU	
opposition	-8763 Jul 12 j 08:49	15°♏12'50	-17°06'45	
	-8763 Jul 23 j 06:38	15°℞♏		
direct	-8763 Oct 01 j 01:14	14°♏11'46		
	-8763 Dec 07 j 14:03	15°♏		
conjunction	-8762 Jan 07 j 16:13	15°♏43'08	-16°26'19	
minimum elong	-8762 Jan 07 j 16:09	15°♏43'08	16°26'40	
max. Earth dist.	-8762 Jan 10 j 01:00	15°♏46'33	47.85688 AU	
retrograde	-8762 Apr 21 j 06:09	17°♏18'30		
min. Earth dist.	-8762 Jul 11 j 12:27	16°♏18'38	46.00997 AU	
opposition	-8762 Jul 13 j 15:52	16°♏16'06	-17°10'34	
direct	-8762 Oct 02 j 07:24	15°♏15'09		
conjunction	-8761 Jan 09 j 00:21	16°♏46'17	-16°29'56	
minimum elong	-8761 Jan 09 j 00:16	16°♏46'17	16°30'18	
max. Earth dist.	-8761 Jan 11 j 07:58	16°♏49'37	47.98974 AU	
retrograde	-8761 Apr 22 j 14:21	18°♏21'22		
min. Earth dist.	-8761 Jul 12 j 19:47	17°♏21'37	46.14106 AU	
opposition	-8761 Jul 14 j 22:35	17°♏19'07	-17°14'04	
direct	-8761 Oct 03 j 14:06	16°♏18'17		
conjunction	-8760 Jan 10 j 08:17	17°♏49'13	-16°33'16	
minimum elong	-8760 Jan 10 j 08:13	17°♏49'13	16°33'38	
max. Earth dist.	-8760 Jan 12 j 13:39	17°♏52'24	48.11781 AU	
retrograde	-8760 Apr 22 j 22:17	19°♏24'01		
min. Earth dist.	-8760 Jul 13 j 04:18	18°♏24'19	46.26725 AU	
opposition	-8760 Jul 15 j 05:27	18°♏21'54	-17°17'15	
direct	-8760 Oct 03 j 20:56	17°♏21'11		
conjunction	-8759 Jan 10 j 16:11	18°♏51'53	-16°36'17	
minimum elong	-8759 Jan 10 j 16:07	18°♏51'53	16°36'39	
max. Earth dist.	-8759 Jan 12 j 21:02	18°♏55'02	48.24084 AU	
retrograde	-8759 Apr 24 j 02:55	20°♏26'25		
min. Earth dist.	-8759 Jul 14 j 12:45	19°♏26'45	46.38807 AU	
opposition	-8759 Jul 16 j 12:08	19°♏24'25	-17°20'08	
direct	-8759 Oct 05 j 06:29	18°♏23'47		
conjunction	-8758 Jan 12 j 00:01	19°♏54'15	-16°39'01	
minimum elong	-8758 Jan 11 j 23:58	19°♏54'15	16°39'24	
max. Earth dist.	-8758 Jan 14 j 02:24	19°♏57'15	48.35869 AU	
retrograde	-8758 Apr 25 j 09:30	21°♏28'31		
min. Earth dist.	-8758 Jul 15 j 19:53	20°♏28'55	46.50385 AU	
opposition	-8758 Jul 17 j 18:32	20°♏26'38	-17°22'43	
direct	-8758 Oct 06 j 14:02	19°♏26'04		
conjunction	-8757 Jan 13 j 07:43	20°♏56'19	-16°41'27	
minimum elong	-8757 Jan 13 j 07:40	20°♏56'18	16°41'50	
max. Earth dist.	-8757 Jan 15 j 09:12	20°♏59'15	48.47160 AU	
retrograde	-8757 Apr 26 j 17:51	22°♏30'18		
min. Earth dist.	-8757 Jul 17 j 04:32	21°♏30'42	46.61495 AU	
opposition	-8757 Jul 19 j 00:59	21°♏28'31	-17°24'59	
direct	-8757 Oct 07 j 19:50	20°♏28'02		
conjunction	-8756 Jan 14 j 15:07	21°♏58'03	-16°43'35	
minimum elong	-8756 Jan 14 j 15:04	21°♏58'03	16°44'00	
max. Earth dist.	-8756 Jan 16 j 15:28	22°♏00'54	48.58030 AU	
retrograde	-8756 Apr 27 j 01:58	23°♏31'46		

min. Earth dist.	-8756 Jul 17 j 10:59	22°♏32'14	46.72198 AU	
opposition	-8756 Jul 19 j 07:08	22°♏30'05	-17°26'57	
direct	-8756 Oct 08 j 00:41	21°♏29'39		
conjunction	-8755 Jan 14 j 22:25	22°♏59'28	-16°45'24	
minimum elong	-8755 Jan 14 j 22:23	22°♏59'28	16°45'48	
max. Earth dist.	-8755 Jan 16 j 21:00	23°♏02'12	48.68522 AU	
retrograde	-8755 Apr 28 j 08:33	24°♏32'55		
min. Earth dist.	-8755 Jul 18 j 18:35	23°♏33'24	46.82562 AU	
opposition	-8755 Jul 20 j 13:14	23°♏31'20	-17°28'35	
direct	-8755 Oct 09 j 07:23	22°♏30'59		
conjunction	-8754 Jan 16 j 05:49	24°♏00'35	-16°46'54	
minimum elong	-8754 Jan 16 j 05:47	24°♏00'35	16°47'19	
max. Earth dist.	-8754 Jan 18 j 04:22	24°♏03'20	48.78695 AU	
retrograde	-8754 Apr 29 j 11:21	25°♏33'48		
min. Earth dist.	-8754 Jul 20 j 01:42	24°♏34'20	46.92599 AU	
opposition	-8754 Jul 21 j 19:13	24°♏32'19	-17°29'53	
direct	-8754 Oct 10 j 17:17	23°♏32'02		
conjunction	-8753 Jan 17 j 12:55	25°♏01'28	-16°48'05	
minimum elong	-8753 Jan 17 j 12:54	25°♏01'28	16°48'30	
max. Earth dist.	-8753 Jan 19 j 09:21	25°♏04'05	48.88569 AU	
retrograde	-8753 Apr 30 j 17:21	26°♏34'27		
min. Earth dist.	-8753 Jul 21 j 07:43	25°♏35'05	47.02347 AU	
opposition	-8753 Jul 23 j 01:01	25°♏33'05	-17°30'52	
direct	-8753 Oct 12 j 00:11	24°♏32'53		
conjunction	-8752 Jan 18 j 19:58	26°♏02'08	-16°48'58	
minimum elong	-8752 Jan 18 j 19:57	26°♏02'08	16°49'23	
max. Earth dist.	-8752 Jan 20 j 16:00	26°♏04'43	48.98149 AU	
retrograde	-8752 May 01 j 00:21	27°♏34'55		
min. Earth dist.	-8752 Jul 21 j 15:35	26°♏35'05	47.11791 AU	
opposition	-8752 Jul 23 j 06:53	26°♏33'40	-17°31'31	
direct	-8752 Oct 12 j 06:11	25°♏33'34		
conjunction	-8751 Jan 19 j 02:56	27°♏02'39	-16°49'31	
minimum elong	-8751 Jan 19 j 02:57	27°♏02'39	16°49'57	
max. Earth dist.	-8751 Jan 20 j 21:58	27°♏05'10	49.07432 AU	
retrograde	-8751 May 02 j 08:30	28°♏35'14		
min. Earth dist.	-8751 Jul 22 j 21:27	27°♏36'00	47.20898 AU	
opposition	-8751 Jul 24 j 12:31	27°♏34'06	-17°31'52	
direct	-8751 Oct 13 j 10:34	26°♏34'05		
conjunction	-8750 Jan 20 j 09:54	28°♏03'02	-16°49'47	
minimum elong	-8750 Jan 20 j 09:53	28°♏03'02	16°50'14	
max. Earth dist.	-8750 Jan 22 j 02:56	28°♏05'26	49.16346 AU	
retrograde	-8750 May 03 j 17:16	29°♏35'24		
min. Earth dist.	-8750 Jul 24 j 04:53	28°♏36'12	47.29620 AU	
opposition	-8750 Jul 25 j 18:06	28°♏34'24	-17°31'55	
direct	-8750 Oct 14 j 14:17	27°♏34'29		
conjunction	-8749 Jan 21 j 16:59	29°♏03'18	-16°49'46	
minimum elong	-8749 Jan 21 j 17:00	29°♏03'18	16°50'13	
max. Earth dist.	-8749 Jan 23 j 09:37	29°♏05'40	49.24849 AU	
	-8749 Mar 06 j 08:03	0°♐		
retrograde	-8749 May 04 j 21:38	0°♐35'28		
	-8749 Jul 04 j 08:17	30°℞♏		
min. Earth dist.	-8749 Jul 25 j 11:55	29°♏36'18	47.37880 AU	
opposition	-8749 Jul 26 j 23:39	29°♏34'35	-17°31'41	
direct	-8749 Oct 15 j 22:14	28°♏34'44		
	-8748 Jan 20 j 13:15	0°♐		
conjunction	-8748 Jan 22 j 23:42	0°♐03'24	-16°49'29	
minimum elong	-8748 Jan 22 j 23:42	0°♐03'24	16°49'56	
max. Earth dist.	-8748 Jan 24 j 13:48	0°♐05'37	49.32872 AU	
retrograde	-8748 May 05 j 01:54	1°♐35'23		

Attention, astronomical year style is used: The year -8748 in astronomical counting style is the year 8749 BCE in historical counting style.

min. Earth dist.	-8748 Jul 25 j 18:20	0°♐36'16	47.45643 AU	
opposition	-8748 Jul 27 j 05:10	0°♐34'35	-17°31'11	
	-8748 Aug 28 j 00:54	30°℞♏		
direct	-8748 Oct 16 j 05:38	29°♏34'48		
	-8748 Dec 03 j 17:45	0°♐		
conjunction	-8747 Jan 23 j 06:36	1°♐03'19	-16°48'57	
minimum elong	-8747 Jan 23 j 06:38	1°♐03'19	16°49'25	
max. Earth dist.	-8747 Jan 24 j 19:42	1°♐05'29	49.40370 AU	
retrograde	-8747 May 06 j 07:20	2°♐35'07		
min. Earth dist.	-8747 Jul 27 j 02:10	1°♐35'57	47.52864 AU	
opposition	-8747 Jul 28 j 10:35	1°♐34'24	-17°30'26	
direct	-8747 Oct 17 j 12:48	0°♐34'39		
conjunction	-8746 Jan 24 j 13:29	2°♐03'01	-16°48'09	
minimum elong	-8746 Jan 24 j 13:30	2°♐03'01	16°48'37	
max. Earth dist.	-8746 Jan 26 j 00:47	2°♐05'03	49.47350 AU	
retrograde	-8746 May 07 j 15:12	3°♐34'35		
min. Earth dist.	-8746 Jul 28 j 07:58	2°♐35'28	47.59561 AU	
opposition	-8746 Jul 29 j 15:51	2°♐33'56	-17°29'24	
direct	-8746 Oct 18 j 16:56	1°♐34'13		
conjunction	-8745 Jan 25 j 20:04	3°♐02'26	-16°47'06	
minimum elong	-8745 Jan 25 j 20:06	3°♐02'26	16°47'35	
max. Earth dist.	-8745 Jan 27 j 05:19	3°♐04'21	49.53817 AU	
retrograde	-8745 May 08 j 21:59	4°♐33'48		
opposition	-8745 Jul 30 j 21:02	3°♐33'12	-17°28'07	
min. Earth dist.	-8745 Jul 29 j 15:12	3°♐34'38	47.65786 AU	
direct	-8745 Oct 19 j 21:28	2°♐33'29		
conjunction	-8744 Jan 27 j 02:41	4°♐01'33	-16°45'47	
minimum elong	-8744 Jan 27 j 02:44	4°♐01'33	16°46'16	
max. Earth dist.	-8744 Jan 28 j 11:35	4°♐03'27	49.59853 AU	
retrograde	-8744 May 09 j 01:17	5°♐32'42		
min. Earth dist.	-8744 Jul 29 j 21:16	4°♐33'32	47.71592 AU	
opposition	-8744 Jul 31 j 02:03	4°♐32'09	-17°26'33	
direct	-8744 Oct 20 j 05:24	3°♐32'28		
conjunction	-8743 Jan 27 j 09:02	5°♐00'23	-16°44'11	
minimum elong	-8743 Jan 27 j 09:05	5°♐00'23	16°44'41	
max. Earth dist.	-8743 Jan 28 j 15:39	5°♐02'09	49.65511 AU	
retrograde	-8743 May 10 j 05:46	6°♐31'21		
min. Earth dist.	-8743 Jul 31 j 02:53	5°♐32'12	47.77051 AU	
opposition	-8743 Aug 01 j 07:02	5°♐30'51	-17°24'42	
direct	-8743 Oct 21 j 12:11	4°♐31'11		
conjunction	-8742 Jan 28 j 15:32	5°♐58'58	-16°42'19	
minimum elong	-8742 Jan 28 j 15:35	5°♐58'59	16°42'47	
max. Earth dist.	-8742 Jan 29 j 21:42	6°♐00'43	49.70832 AU	
retrograde	-8742 May 11 j 10:20	7°♐29'46		
min. Earth dist.	-8742 Aug 01 j 09:42	6°♐30'35	47.82190 AU	
opposition	-8742 Aug 02 j 11:55	6°♐29'20	-17°22'33	
direct	-8742 Oct 22 j 18:45	5°♐29'42		
conjunction	-8741 Jan 29 j 21:54	6°♐57'22	-16°40'09	
minimum elong	-8741 Jan 29 j 21:56	6°♐57'22	16°40'38	
max. Earth dist.	-8741 Jan 31 j 02:55	6°♐59'02	49.75873 AU	
retrograde	-8741 May 12 j 16:55	8°♐28'00		
opposition	-8741 Aug 03 j 16:44	7°♐27'39	-17°20'06	
min. Earth dist.	-8741 Aug 02 j 14:31	7°♐28'54	47.87044 AU	
direct	-8741 Oct 23 j 23:00	6°♐28'03		
conjunction	-8740 Jan 31 j 03:55	7°♐55'38	-16°37'42	
minimum elong	-8740 Jan 31 j 04:00	7°♐55'39	16°38'11	
max. Earth dist.	-8740 Feb 01 j 07:20	7°♐57'12	49.80626 AU	
retrograde	-8740 May 13 j 01:03	9°♐26'08		
opposition	-8740 Aug 03 j 21:38	8°♐25'51	-17°17'22	
min. Earth dist.	-8740 Aug 02 j 21:00	8°♐27'02	47.91616 AU	
direct	-8740 Oct 24 j 01:42	7°♐26'19		
conjunction	-8739 Jan 31 j 10:15	8°♐53'50	-16°34'58	
minimum elong	-8739 Jan 31 j 10:18	8°♐53'51	16°35'28	
max. Earth dist.	-8739 Feb 01 j 13:31	8°♐55'24	49.85095 AU	
retrograde	-8739 May 14 j 05:24	10°♐24'12		
min. Earth dist.	-8739 Aug 04 j 02:42	9°♐25'09	47.95864 AU	
opposition	-8739 Aug 05 j 02:17	9°♐24'01	-17°14'21	
direct	-8739 Oct 25 j 08:04	8°♐24'33		
conjunction	-8738 Feb 01 j 16:29	9°♐52'01	-16°31'57	
minimum elong	-8738 Feb 01 j 16:34	9°♐52'01	16°32'28	
max. Earth dist.	-8738 Feb 02 j 17:28	9°♐53'27	49.89229 AU	
retrograde	-8738 May 15 j 10:09	11°♐22'17		
min. Earth dist.	-8738 Aug 05 j 08:15	10°♐23'17	47.99755 AU	
opposition	-8738 Aug 06 j 06:59	10°♐22'11	-17°11'03	
direct	-8738 Oct 26 j 13:41	9°♐22'46		
conjunction	-8737 Feb 02 j 22:43	10°♐50'12	-16°28'42	
minimum elong	-8737 Feb 02 j 22:46	10°♐50'12	16°29'12	
max. Earth dist.	-8737 Feb 03 j 22:55	10°♐51'35	49.92956 AU	
retrograde	-8737 May 16 j 14:15	12°♐20'22		
opposition	-8737 Aug 07 j 11:41	11°♐20'22	-17°07'30	
min. Earth dist.	-8737 Aug 06 j 15:11	11°♐21'21	48.03204 AU	
direct	-8737 Oct 27 j 20:42	10°♐21'01		
conjunction	-8736 Feb 04 j 04:59	11°♐48'23	-16°25'11	
minimum elong	-8736 Feb 04 j 05:05	11°♐48'23	16°25'42	
max. Earth dist.	-8736 Feb 05 j 03:29	11°♐49'40	49.96236 AU	
retrograde	-8736 May 16 j 22:02	13°♐18'28		
opposition	-8736 Aug 07 j 16:15	12°♐18'33	-17°03'42	
min. Earth dist.	-8736 Aug 06 j 20:19	12°♐19'30	48.06165 AU	
direct	-8736 Oct 27 j 23:50	11°♐19'14		
conjunction	-8735 Feb 04 j 11:09	12°♐46'33	-16°21'26	
minimum elong	-8735 Feb 04 j 11:14	12°♐46'33	16°21'57	
max. Earth dist.	-8735 Feb 05 j 07:24	12°♐47'42	49.98995 AU	
retrograde	-8735 May 18 j 05:43	14°♐16'31		
opposition	-8735 Aug 08 j 21:00	13°♐16'40	-16°59'39	
min. Earth dist.	-8735 Aug 08 j 03:22	13°♐17'31	48.08598 AU	
direct	-8735 Oct 29 j 02:17	12°♐17'22		
conjunction	-8734 Feb 05 j 17:31	13°♐44'39	-16°17'28	
minimum elong	-8734 Feb 05 j 17:38	13°♐44'39	16°17'59	
max. Earth dist.	-8734 Feb 06 j 12:59	13°♐45'45	50.01229 AU	
retrograde	-8734 May 19 j 09:30	15°♐14'29		
min. Earth dist.	-8734 Aug 09 j 09:07	14°♐15'28	48.10492 AU	
opposition	-8734 Aug 10 j 01:28	14°♐14'41	-16°55'23	
direct	-8734 Oct 30 j 09:24	13°♐15'24		
conjunction	-8733 Feb 06 j 23:37	14°♐42'37	-16°13'15	
minimum elong	-8733 Feb 06 j 23:43	14°♐42'37	16°13'46	
max. Earth dist.	-8733 Feb 07 j 16:22	14°♐43'34	50.02955 AU	
retrograde	-8733 May 20 j 13:07	16°♐12'20		
opposition	-8733 Aug 11 j 05:59	15°♐12'34	-16°50'52	
min. Earth dist.	-8733 Aug 10 j 14:38	15°♐13'18	48.11911 AU	
direct	-8733 Oct 31 j 16:09	14°♐13'16		
conjunction	-8732 Feb 08 j 05:34	15°♐40'25	-16°08'47	
minimum elong	-8732 Feb 08 j 05:40	15°♐40'26	16°09'20	
max. Earth dist.	-8732 Feb 08 j 21:43	15°♐41'20	50.04220 AU	
retrograde	-8732 May 20 j 16:17	17°♐10'02		
opposition	-8732 Aug 11 j 10:30	16°♐10'17	-16°46'06	
min. Earth dist.	-8732 Aug 10 j 21:17	16°♐10'55	48.12891 AU	
direct	-8732 Oct 31 j 23:14	15°♐10'59		

Attention, astronomical year style is used: The year -8731 in astronomical counting style is the year 8732 BCE in historical counting style.

conjunction	-8731 Feb 08 j 11:36	16°♐38'04	-16°04'05
minimum elong	-8731 Feb 08 j 11:42	16°♐38'04	16°04'36
max. Earth dist.	-8731 Feb 09 j 02:19	16°♐38'54	50.05095 AU
retrograde	-8731 May 21 j 21:52	18°♐07'34	
opposition	-8731 Aug 12 j 14:44	17°♐07'51	-16°41'03
min. Earth dist.	-8731 Aug 12 j 01:41	17°♐08'29	48.13501 AU
direct	-8731 Nov 02 j 03:57	16°♐08'32	
conjunction	-8730 Feb 09 j 17:33	17°♐35'34	-15°59'07
minimum elong	-8730 Feb 09 j 17:40	17°♐35'35	15°59'39
max. Earth dist.	-8730 Feb 10 j 06:26	17°♐36'18	50.05613 AU
retrograde	-8730 May 23 j 06:03	19°♐04'59	
opposition	-8730 Aug 13 j 19:10	18°♐05'17	-16°35'45
min. Earth dist.	-8730 Aug 13 j 07:58	18°♐05'49	48.13784 AU
direct	-8730 Nov 03 j 06:04	17°♐05'57	
conjunction	-8729 Feb 10 j 23:28	18°♐32'58	-15°53'53
minimum elong	-8729 Feb 10 j 23:36	18°♐32'58	15°54'24
max. Earth dist.	-8729 Feb 11 j 12:16	18°♐33'41	50.05828 AU
retrograde	-8729 May 24 j 11:04	20°♐02'16	
opposition	-8729 Aug 14 j 23:28	19°♐02'36	-16°30'10
min. Earth dist.	-8729 Aug 14 j 12:57	19°♐03'06	48.13756 AU
direct	-8729 Nov 04 j 10:50	18°♐03'17	
conjunction	-8728 Feb 12 j 05:17	19°♐30'16	-15°48'23
minimum elong	-8728 Feb 12 j 05:23	19°♐30'17	15°48'55
max. Earth dist.	-8728 Feb 12 j 15:53	19°♐30'52	50.05755 AU
retrograde	-8728 May 24 j 16:05	20°♐59'30	
opposition	-8728 Aug 15 j 03:44	19°♐59'53	-16°24'19
min. Earth dist.	-8728 Aug 14 j 17:57	20°♐00'21	48.13449 AU
direct	-8728 Nov 04 j 15:29	19°♐00'34	
conjunction	-8727 Feb 12 j 11:13	20°♐27'33	-15°42'37
minimum elong	-8727 Feb 12 j 11:22	20°♐27'33	15°43'09
max. Earth dist.	-8727 Feb 12 j 21:19	20°♐28'07	50.05381 AU
retrograde	-8727 May 25 j 18:00	21°♐56'44	
opposition	-8727 Aug 16 j 08:06	20°♐57'10	-16°18'11
min. Earth dist.	-8727 Aug 16 j 00:12	20°♐57'32	48.12810 AU
direct	-8727 Nov 05 j 23:24	19°♐57'51	
conjunction	-8726 Feb 13 j 17:14	21°♐24'51	-15°36'36
minimum elong	-8726 Feb 13 j 17:21	21°♐24'51	15°37'08
max. Earth dist.	-8726 Feb 14 j 01:51	21°♐25'20	50.04672 AU
retrograde	-8726 May 26 j 23:48	22°♐53'59	
opposition	-8726 Aug 17 j 12:14	21°♐54'28	-16°11'48
min. Earth dist.	-8726 Aug 17 j 04:46	21°♐54'50	48.11801 AU
direct	-8726 Nov 07 j 03:52	20°♐55'11	
conjunction	-8725 Feb 14 j 23:12	22°♐22'11	-15°30'20
minimum elong	-8725 Feb 14 j 23:21	22°♐22'12	15°30'53
max. Earth dist.	-8725 Feb 15 j 05:52	22°♐22'34	50.03551 AU
retrograde	-8725 May 28 j 07:52	23°♐51'18	
opposition	-8725 Aug 18 j 16:39	22°♐51'50	-16°05'11
min. Earth dist.	-8725 Aug 18 j 11:25	22°♐52'05	48.10359 AU
direct	-8725 Nov 08 j 05:29	21°♐52'33	
conjunction	-8724 Feb 16 j 05:11	23°♐19'36	-15°23'50
minimum elong	-8724 Feb 16 j 05:19	23°♐19'36	15°24'22
max. Earth dist.	-8724 Feb 16 j 11:07	23°♐19'56	50.01969 AU
retrograde	-8724 May 28 j 12:35	24°♐48'41	
opposition	-8724 Aug 18 j 20:59	23°♐49'15	-15°58'19
min. Earth dist.	-8724 Aug 18 j 16:54	23°♐49'26	48.08405 AU
direct	-8724 Nov 08 j 11:17	22°♐49'58	
conjunction	-8723 Feb 16 j 11:14	24°♐17'02	-15°17'06
minimum elong	-8723 Feb 16 j 11:23	24°♐17'02	15°17'39
max. Earth dist.	-8723 Feb 16 j 14:20	24°♐17'12	49.99859 AU
retrograde	-8723 May 29 j 17:26	25°♐46'04	
opposition	-8723 Aug 20 j 01:14	24°♐46'40	-15°51'14
min. Earth dist.	-8723 Aug 19 j 22:35	24°♐46'48	48.05913 AU
direct	-8723 Nov 09 j 16:44	23°♐47'22	
conjunction	-8722 Feb 17 j 17:28	25°♐14'28	-15°10'10
minimum elong	-8722 Feb 17 j 17:36	25°♐14'29	15°10'42
max. Earth dist.	-8722 Feb 17 j 19:27	25°♐14'35	49.97193 AU
retrograde	-8722 May 30 j 20:38	26°♐43'28	
opposition	-8722 Aug 21 j 05:40	25°♐44'05	-15°43'55
min. Earth dist.	-8722 Aug 21 j 05:20	25°♐44'06	48.02862 AU
direct	-8722 Nov 10 j 23:49	24°♐44'45	
conjunction	-8721 Feb 18 j 23:25	26°♐11'52	-15°03'00
minimum elong	-8721 Feb 18 j 23:35	26°♐11'52	15°03'33
max. Earth dist.	-8721 Feb 18 j 23:36	26°♐11'52	49.94002 AU
retrograde	-8721 Jun 01 j 01:38	27°♐40'51	
opposition	-8721 Aug 22 j 09:53	26°♐41'27	-15°36'22
min. Earth dist.	-8721 Aug 22 j 10:00	26°♐41'27	47.99300 AU
direct	-8721 Nov 12 j 04:53	25°♐42'04	
evening set	-8720 Feb 18 j 17:15	27°♐07'10	
conjunction	-8720 Feb 20 j 05:23	27°♐09'13	-14°55'36
minimum elong	-8720 Feb 20 j 05:32	27°♐09'13	14°56'09
max. Earth dist.	-8720 Feb 20 j 03:26	27°♐09'06	49.90319 AU
morning rise	-8720 Feb 21 j 17:51	27°♐11'16	
retrograde	-8720 Jun 01 j 09:01	28°♐38'10	
opposition	-8720 Aug 22 j 14:09	27°♐38'46	-15°28'34
min. Earth dist.	-8720 Aug 22 j 16:26	27°♐38'39	47.95287 AU
direct	-8720 Nov 12 j 07:32	26°♐39'20	
evening set	-8719 Feb 17 j 21:06	28°♐03'00	
conjunction	-8719 Feb 20 j 11:26	28°♐06'31	-14°47'57
minimum elong	-8719 Feb 20 j 11:36	28°♐06'31	14°48'31
max. Earth dist.	-8719 Feb 20 j 09:07	28°♐06'23	49.86220 AU
morning rise	-8719 Feb 23 j 02:07	28°♐10'03	
retrograde	-8719 Jun 02 j 14:31	29°♐35'26	
opposition	-8719 Aug 23 j 18:22	28°♐36'01	-15°20'32
min. Earth dist.	-8719 Aug 23 j 21:33	28°♐35'52	47.90868 AU
direct	-8719 Nov 13 j 12:03	27°♐36'33	
evening set	-8718 Feb 18 j 08:31	28°♐59'12	
conjunction	-8718 Feb 21 j 17:21	29°♐03'47	-14°40'03
minimum elong	-8718 Feb 21 j 17:31	29°♐03'47	14°40'36
max. Earth dist.	-8718 Feb 21 j 12:40	29°♐03'31	49.81748 AU
morning rise	-8718 Feb 25 j 02:36	29°♐08'22	
	-8718 Apr 07 j 10:42	0°♑	
retrograde	-8718 Jun 03 j 20:15	0°♑32'41	
	-8718 Jul 31 j 16:13	30°℞♐	
opposition	-8718 Aug 24 j 22:32	29°♐33'16	-15°12'13
min. Earth dist.	-8718 Aug 25 j 02:35	29°♐33'04	47.86114 AU
direct	-8718 Nov 14 j 16:23	28°♐33'45	
evening set	-8717 Feb 18 j 23:09	29°♐55'36	
conjunction	-8717 Feb 22 j 23:21	0°♑01'02	-14°31'55
minimum elong	-8717 Feb 22 j 23:31	0°♑01'03	14°32'28
	-8717 Feb 22 j 05:00	0°♑	
max. Earth dist.	-8717 Feb 22 j 18:10	0°♑00'45	49.76955 AU
morning rise	-8717 Feb 26 j 23:55	0°♑06'30	
retrograde	-8717 Jun 04 j 21:38	1°♑29'57	
opposition	-8717 Aug 26 j 02:53	0°♑30'32	-15°03'39
min. Earth dist.	-8717 Aug 26 j 08:35	0°♑30'15	47.81050 AU
	-8717 Sep 23 j 02:28	30°℞♐	
direct	-8717 Nov 16 j 00:18	29°♐30'59	
	-8716 Jan 08 j 06:33	0°♑	
evening set	-8716 Feb 19 j 15:33	0°♑52'08	

Attention, astronomical year style is used: The year -8716 in astronomical counting style is the year 8717 BCE in historical counting style.

conjunction	-8716 Feb 24 j 05:08	0°♑58'20	-14°23'30
minimum elong	-8716 Feb 24 j 05:19	0°♑58'21	14°24'03
max. Earth dist.	-8716 Feb 23 j 22:48	0°♑57'59	49.71884 AU
morning rise	-8716 Feb 28 j 19:10	1°♑04'34	
retrograde	-8716 Jun 05 j 02:35	2°♑27'16	
opposition	-8716 Aug 26 j 07:07	1°♑27'52	-14°54'48
min. Earth dist.	-8716 Aug 26 j 12:54	1°♑27'35	47.75701 AU
direct	-8716 Nov 16 j 05:33	0°♑28'17	
evening set	-8715 Feb 19 j 09:15	1°♑48'50	
conjunction	-8715 Feb 24 j 11:06	1°♑55'43	-14°14'49
minimum elong	-8715 Feb 24 j 11:16	1°♑55'44	14°15'23
max. Earth dist.	-8715 Feb 24 j 03:01	1°♑55'16	49.66513 AU
morning rise	-8715 Mar 01 j 13:26	2°♑02'39	
retrograde	-8715 Jun 06 j 11:13	3°♑24'42	
opposition	-8715 Aug 27 j 11:22	2°♑25'18	-14°45'41
min. Earth dist.	-8715 Aug 27 j 19:09	2°♑24'56	47.70051 AU
direct	-8715 Nov 17 j 06:29	1°♑25'42	
evening set	-8714 Feb 20 j 04:08	2°♑45'43	
conjunction	-8714 Feb 25 j 17:16	2°♑53'15	-14°05'54
minimum elong	-8714 Feb 25 j 17:28	2°♑53'15	14°06'27
max. Earth dist.	-8714 Feb 25 j 08:50	2°♑52'46	49.60832 AU
morning rise	-8714 Mar 03 j 06:50	3°♑00'48	
retrograde	-8714 Jun 07 j 16:34	4°♑22'16	
opposition	-8714 Aug 28 j 15:41	3°♑22'53	-14°36'18
min. Earth dist.	-8714 Aug 29 j 00:12	3°♑22'29	47.64047 AU
direct	-8714 Nov 18 j 11:23	2°♑23'15	
evening set	-8713 Feb 20 j 23:31	3°♑42'47	
conjunction	-8713 Feb 26 j 23:11	3°♑50'55	-13°56'43
minimum elong	-8713 Feb 26 j 23:21	3°♑50'56	13°57'17
max. Earth dist.	-8713 Feb 26 j 12:19	3°♑50'18	49.54773 AU
morning rise	-8713 Mar 04 j 23:21	3°♑59'05	
retrograde	-8713 Jun 08 j 22:19	5°♑19'59	
opposition	-8713 Aug 29 j 20:00	4°♑20'37	-14°26'40
min. Earth dist.	-8713 Aug 30 j 05:48	4°♑20'09	47.57646 AU
direct	-8713 Nov 19 j 16:04	3°♑20'58	
evening set	-8712 Feb 21 j 19:42	4°♑40'02	
conjunction	-8712 Feb 28 j 05:26	4°♑48'45	-13°47'18
minimum elong	-8712 Feb 28 j 05:38	4°♑48'46	13°47'52
max. Earth dist.	-8712 Feb 27 j 17:45	4°♑48'05	49.48271 AU
morning rise	-8712 Mar 05 j 15:38	4°♑57'29	
retrograde	-8712 Jun 09 j 01:11	6°♑17'53	
opposition	-8712 Aug 30 j 00:25	5°♑18'30	-14°16'48
min. Earth dist.	-8712 Aug 30 j 12:24	5°♑17'56	47.50766 AU
direct	-8712 Nov 19 j 23:42	4°♑18'48	
evening set	-8711 Feb 21 j 16:35	5°♑37'27	
conjunction	-8711 Feb 28 j 11:44	5°♑46'42	-13°37'38
minimum elong	-8711 Feb 28 j 11:54	5°♑46'43	13°38'12
max. Earth dist.	-8711 Feb 27 j 22:04	5°♑45'55	49.41284 AU
morning rise	-8711 Mar 07 j 07:22	5°♑55'59	
retrograde	-8711 Jun 10 j 05:43	7°♑15'53	
opposition	-8711 Aug 31 j 04:51	6°♑16'30	-14°06'41
min. Earth dist.	-8711 Aug 31 j 17:23	6°♑15'54	47.43369 AU
direct	-8711 Nov 21 j 05:43	5°♑16'44	
evening set	-8710 Feb 22 j 13:49	6°♑34'58	
conjunction	-8710 Mar 01 j 18:05	6°♑44'44	-13°27'46
minimum elong	-8710 Mar 01 j 18:16	6°♑44'45	13°28'20
max. Earth dist.	-8710 Mar 01 j 02:06	6°♑43'49	49.33756 AU
morning rise	-8710 Mar 08 j 22:53	6°♑54'33	
retrograde	-8710 Jun 11 j 12:40	8°♑13'58	
opposition	-8710 Sep 01 j 09:23	7°♑14'33	-13°56'20
min. Earth dist.	-8710 Sep 02 j 00:21	7°♑13'50	47.35445 AU
direct	-8710 Nov 22 j 09:23	6°♑14'42	
evening set	-8709 Feb 23 j 11:31	7°♑32'32	
max. Earth dist.	-8709 Mar 02 j 07:52	7°♑41'51	49.25725 AU
conjunction	-8709 Mar 03 j 00:30	7°♑42'48	-13°17'39
minimum elong	-8709 Mar 03 j 00:41	7°♑42'49	13°18'12
morning rise	-8709 Mar 10 j 13:53	7°♑53'07	
retrograde	-8709 Jun 12 j 19:27	9°♑12'05	
opposition	-8709 Sep 02 j 13:53	8°♑12'36	-13°45'45
min. Earth dist.	-8709 Sep 03 j 05:45	8°♑11'51	47.27022 AU
direct	-8709 Nov 23 j 13:20	7°♑12'40	
evening set	-8708 Feb 24 j 09:20	8°♑30'07	
max. Earth dist.	-8708 Mar 02 j 11:24	8°♑39'47	49.17224 AU
conjunction	-8708 Mar 03 j 06:38	8°♑40'53	-13°07'18
minimum elong	-8708 Mar 03 j 06:49	8°♑40'54	13°07'52
morning rise	-8708 Mar 11 j 04:30	8°♑51'40	
retrograde	-8708 Jun 13 j 02:33	10°♑10'12	
opposition	-8708 Sep 02 j 18:23	9°♑10'40	-13°34'55
min. Earth dist.	-8708 Sep 03 j 11:31	9°♑09'50	47.18165 AU
direct	-8708 Nov 23 j 17:18	8°♑10'37	
evening set	-8707 Feb 24 j 07:34	9°♑27'44	
conjunction	-8707 Mar 04 j 13:06	9°♑38'58	-12°56'42
minimum elong	-8707 Mar 04 j 13:17	9°♑38'58	12°57'15
max. Earth dist.	-8707 Mar 03 j 17:11	9°♑37'50	49.08303 AU
morning rise	-8707 Mar 12 j 19:02	9°♑50'13	
retrograde	-8707 Jun 14 j 04:52	11°♑08'20	
opposition	-8707 Sep 03 j 22:53	10°♑08'44	-13°23'49
min. Earth dist.	-8707 Sep 04 j 17:49	10°♑07'49	47.08912 AU
direct	-8707 Nov 25 j 00:58	9°♑08'35	
evening set	-8706 Feb 25 j 06:13	10°♑25'22	
conjunction	-8706 Mar 05 j 19:30	10°♑37'03	-12°45'51
minimum elong	-8706 Mar 05 j 19:41	10°♑37'04	12°46'25
max. Earth dist.	-8706 Mar 04 j 22:13	10°♑35'50	48.99035 AU
morning rise	-8706 Mar 14 j 09:15	10°♑48'46	
retrograde	-8706 Jun 15 j 08:38	12°♑06'29	
opposition	-8706 Sep 05 j 03:25	11°♑06'50	-13°12'26
min. Earth dist.	-8706 Sep 05 j 22:35	11°♑05'55	46.99336 AU
direct	-8706 Nov 26 j 07:50	10°♑06'36	
evening set	-8705 Feb 26 j 04:48	11°♑23'05	
max. Earth dist.	-8705 Mar 06 j 02:49	11°♑33'53	48.89450 AU
conjunction	-8705 Mar 07 j 01:44	11°♑35'12	-12°34'44
minimum elong	-8705 Mar 07 j 01:57	11°♑35'13	12°35'17
morning rise	-8705 Mar 15 j 23:11	11°♑47'22	
retrograde	-8705 Jun 16 j 16:01	13°♑04'44	
opposition	-8705 Sep 06 j 08:09	12°♑05'02	-13°00'48
min. Earth dist.	-8705 Sep 07 j 05:06	12°♑04'01	46.89473 AU
direct	-8705 Nov 27 j 10:58	11°♑04'42	
evening set	-8704 Feb 27 j 03:49	12°♑20'54	
max. Earth dist.	-8704 Mar 06 j 09:08	12°♑32'09	48.79605 AU
conjunction	-8704 Mar 07 j 08:14	12°♑33'28	-12°23'21
minimum elong	-8704 Mar 07 j 08:26	12°♑33'29	12°23'55
morning rise	-8704 Mar 16 j 12:58	12°♑46'04	
retrograde	-8704 Jun 16 j 21:56	14°♑03'07	
opposition	-8704 Sep 06 j 12:45	13°♑03'22	-12°48'52
min. Earth dist.	-8704 Sep 07 j 10:06	13°♑02'20	46.79341 AU
direct	-8704 Nov 27 j 15:30	12°♑02'58	
evening set	-8703 Feb 27 j 03:10	13°♑18'55	
conjunction	-8703 Mar 08 j 14:43	13°♑31'55	-12°11'42
minimum elong	-8703 Mar 08 j 14:55	13°♑31'56	12°12'16
max. Earth dist.	-8703 Mar 07 j 13:27	13°♑30'29	48.69495 AU
morning rise	-8703 Mar 18 j 02:48	13°♑44'57	

Attention, astronomical year style is used: The year -8703 in astronomical counting style is the year 8704 BCE in historical counting style.

retrograde	-8703 Jun 18 j 05:18	15°♑01'42		
opposition	-8703 Sep 07 j 17:32	14°♑01'55	-12°36'39	
min. Earth dist.	-8703 Sep 08 j 15:57	14°♑00'50	46.68940 AU	
direct	-8703 Nov 28 j 19:37	13°♑01'27		
evening set	-8702 Feb 28 j 02:40	14°♑17'12		
conjunction	-8702 Mar 09 j 21:25	14°♑30'38	-11°59'47	
minimum elong	-8702 Mar 09 j 21:37	14°♑30'38	12°00'21	
max. Earth dist.	-8702 Mar 08 j 19:42	14°♑29'09	48.59085 AU	
morning rise	-8702 Mar 19 j 16:27	14°♑44'05		
retrograde	-8702 Jun 19 j 09:07	16°♑00'33		
opposition	-8702 Sep 08 j 22:24	15°♑00'45	-12°24'10	
min. Earth dist.	-8702 Sep 09 j 22:32	14°♑59'35	46.58213 AU	
direct	-8702 Nov 30 j 03:16	14°♑00'14		
evening set	-8701 Mar 01 j 02:38	15°♑15'48		
max. Earth dist.	-8701 Mar 10 j 00:50	15°♑28'03	48.48343 AU	
conjunction	-8701 Mar 11 j 04:07	15°♑29'38	-11°47'36	
minimum elong	-8701 Mar 11 j 04:20	15°♑29'38	11°48'10	
morning rise	-8701 Mar 21 j 06:00	15°♑43'29		
retrograde	-8701 Jun 20 j 14:23	16°♑59'43		
opposition	-8701 Sep 10 j 03:16	15°♑59'54	-12°11'25	
min. Earth dist.	-8701 Sep 11 j 03:45	15°♑58'43	46.47119 AU	
direct	-8701 Dec 01 j 09:19	14°♑59'19		
evening set	-8700 Mar 01 j 02:36	16°♑14'42		
max. Earth dist.	-8700 Mar 10 j 05:35	16°♑27'15	48.37179 AU	
conjunction	-8700 Mar 11 j 10:51	16°♑28'57	-11°35'10	
minimum elong	-8700 Mar 11 j 11:03	16°♑28'57	11°35'43	
morning rise	-8700 Mar 21 j 19:30	16°♑43'13		
retrograde	-8700 Jun 20 j 21:43	17°♑59'13		
opposition	-8700 Sep 10 j 08:24	16°♑59'23	-11°58'25	
min. Earth dist.	-8700 Sep 11 j 11:19	16°♑58'04	46.35575 AU	
direct	-8700 Dec 01 j 13:25	15°♑58'43		
evening set	-8699 Mar 02 j 03:09	17°♑13'56		
max. Earth dist.	-8699 Mar 11 j 11:58	17°♑26'50	48.25542 AU	
conjunction	-8699 Mar 12 j 17:59	17°♑28'34	-11°22'29	
minimum elong	-8699 Mar 12 j 18:12	17°♑28'35	11°23'02	
morning rise	-8699 Mar 23 j 08:59	17°♑43'15		
retrograde	-8699 Jun 22 j 05:41	18°♑59'01		
opposition	-8699 Sep 11 j 13:29	17°♑59'08	-11°45'09	
min. Earth dist.	-8699 Sep 12 j 17:20	17°♑57'47	46.23522 AU	
direct	-8699 Dec 02 j 17:37	16°♑58'23		
evening set	-8698 Mar 03 j 04:00	18°♑13'26		
max. Earth dist.	-8698 Mar 12 j 16:08	18°♑26'35	48.13389 AU	
conjunction	-8698 Mar 14 j 01:04	18°♑28'29	-11°09'34	
minimum elong	-8698 Mar 14 j 01:15	18°♑28'29	11°10'06	
morning rise	-8698 Mar 24 j 22:31	18°♑43'33		
retrograde	-8698 Jun 23 j 14:52	19°♑59'05		
opposition	-8698 Sep 12 j 18:45	18°♑59'08	-11°31'37	
min. Earth dist.	-8698 Sep 14 j 00:09	18°♑57'43	46.10962 AU	
direct	-8698 Dec 03 j 21:17	17°♑58'16		
evening set	-8697 Mar 04 j 04:47	19°♑13'11		
max. Earth dist.	-8697 Mar 13 j 22:27	19°♑26'40	48.00722 AU	
conjunction	-8697 Mar 15 j 08:11	19°♑28'37	-10°56'23	
minimum elong	-8697 Mar 15 j 08:24	19°♑28'37	10°56'57	
morning rise	-8697 Mar 26 j 11:42	19°♑44'04		
retrograde	-8697 Jun 24 j 19:16	20°♑59'23		
opposition	-8697 Sep 14 j 00:09	19°♑59'21	-11°17'50	
min. Earth dist.	-8697 Sep 15 j 07:26	19°♑57'50	45.97894 AU	
direct	-8697 Dec 05 j 04:48	18°♑58'22		
evening set	-8696 Mar 04 j 06:04	20°♑13'08		
max. Earth dist.	-8696 Mar 14 j 03:54	20°♑26'52	47.87589 AU	

conjunction	-8696 Mar 15 j 15:24	20°♑28'56	-10°42'58	
minimum elong	-8696 Mar 15 j 15:36	20°♑28'57	10°43'30	
morning rise	-8696 Mar 27 j 00:56	20°♑44'46		
retrograde	-8696 Jun 24 j 22:48	21°♑59'52		
opposition	-8696 Sep 14 j 05:21	20°♑59'45	-11°03'48	
min. Earth dist.	-8696 Sep 15 j 13:11	20°♑58'11	45.84385 AU	
direct	-8696 Dec 05 j 13:27	19°♑58'37		
evening set	-8695 Mar 05 j 07:27	21°♑13'15		
max. Earth dist.	-8695 Mar 15 j 09:19	21°♑27'15	47.74019 AU	
conjunction	-8695 Mar 16 j 22:45	21°♑29'26	-10°29'17	
minimum elong	-8695 Mar 16 j 22:58	21°♑29'26	10°29'50	
morning rise	-8695 Mar 28 j 14:14	21°♑45'37		
retrograde	-8695 Jun 26 j 05:36	23°♑00'33		
opposition	-8695 Sep 15 j 10:53	22°♑00'19	-10°49'28	
min. Earth dist.	-8695 Sep 16 j 20:54	21°♑58'39	45.70475 AU	
direct	-8695 Dec 06 j 18:58	20°♑59'02		
evening set	-8694 Mar 06 j 09:06	22°♑13'33		
max. Earth dist.	-8694 Mar 16 j 16:24	22°♑27'53	47.60084 AU	
conjunction	-8694 Mar 18 j 06:11	22°♑30'05	-10°15'20	
minimum elong	-8694 Mar 18 j 06:23	22°♑30'06	10°15'52	
morning rise	-8694 Mar 30 j 03:13	22°♑46'39		
retrograde	-8694 Jun 27 j 12:39	24°♑01'24		
opposition	-8694 Sep 16 j 16:23	23°♑01'04	-10°34'52	
min. Earth dist.	-8694 Sep 18 j 02:44	22°♑59'23	45.56218 AU	
direct	-8694 Dec 07 j 23:47	21°♑59'38		
evening set	-8693 Mar 07 j 10:59	23°♑14'02		
max. Earth dist.	-8693 Mar 17 j 21:34	23°♑28'36	47.45832 AU	
conjunction	-8693 Mar 19 j 13:33	23°♑30'56	-10°01'06	
minimum elong	-8693 Mar 19 j 13:45	23°♑30'57	10°01'39	
morning rise	-8693 Mar 31 j 16:19	23°♑47'52		
retrograde	-8693 Jun 28 j 21:46	25°♑02'27		
opposition	-8693 Sep 17 j 22:04	24°♑02'00	-10°19'58	
min. Earth dist.	-8693 Sep 19 j 09:38	24°♑00'16	45.41681 AU	
direct	-8693 Dec 09 j 03:55	23°♑00'26		
evening set	-8692 Mar 07 j 12:51	24°♑14'46		
max. Earth dist.	-8692 Mar 18 j 04:52	24°♑29'40	47.31301 AU	
conjunction	-8692 Mar 19 j 21:06	24°♑32'02	-9°46'36	
minimum elong	-8692 Mar 19 j 21:18	24°♑32'02	9°47'08	
morning rise	-8692 Apr 01 j 05:08	24°♑49'19		
retrograde	-8692 Jun 29 j 03:33	26°♑03'45		
opposition	-8692 Sep 18 j 03:55	25°♑03'12	-10°04'47	
min. Earth dist.	-8692 Sep 19 j 16:47	25°♑01'23	45.26864 AU	
direct	-8692 Dec 09 j 11:57	24°♑01'30		
evening set	-8691 Mar 08 j 15:20	25°♑15'46		
max. Earth dist.	-8691 Mar 19 j 11:01	25°♑30'56	47.16514 AU	
conjunction	-8691 Mar 21 j 04:47	25°♑33'24	-9°31'49	
minimum elong	-8691 Mar 21 j 04:58	25°♑33'24	9°32'21	
morning rise	-8691 Apr 02 j 18:11	25°♑51'02		
retrograde	-8691 Jun 30 j 09:41	27°♑05'20		
opposition	-8691 Sep 19 j 09:41	26°♑04'43	-9°49'17	
min. Earth dist.	-8691 Sep 20 j 22:45	26°♑02'53	45.11786 AU	
direct	-8691 Dec 10 j 19:28	25°♑02'52		
evening set	-8690 Mar 09 j 17:59	26°♑17'07		
max. Earth dist.	-8690 Mar 20 j 17:28	26°♑32'32	47.01434 AU	
conjunction	-8690 Mar 22 j 12:41	26°♑35'05	-9°16'45	
minimum elong	-8690 Mar 22 j 12:53	26°♑35'06	9°17'17	
morning rise	-8690 Apr 04 j 07:14	26°♑53'04		
retrograde	-8690 Jul 01 j 16:00	28°♑07'18		
opposition	-8690 Sep 20 j 15:50	27°♑06'35	-9°33'30	
min. Earth dist.	-8690 Sep 22 j 07:01	27°♑04'39	44.96406 AU	
direct	-8690 Dec 12 j 02:05	26°♑04'37		

Attention, astronomical year style is used: The year -8689 in astronomical counting style is the year 8690 BCE in historical counting style.

evening set	-8689 Mar 10 j 20:47	27°♑18'51	
max. Earth dist.	-8689 Mar 22 j 00:59	27°♑34'35	46.86037 AU
conjunction	-8689 Mar 23 j 20:35	27°♑37'10	-9°01'24
minimum elong	-8689 Mar 23 j 20:46	27°♑37'10	9°01'56
morning rise	-8689 Apr 05 j 20:02	27°♑55'29	
retrograde	-8689 Jul 02 j 23:35	29°♑09'39	
opposition	-8689 Sep 21 j 22:00	28°♑08'51	-9°17'25
min. Earth dist.	-8689 Sep 23 j 13:39	28°♑06'53	44.80668 AU
direct	-8689 Dec 13 j 08:12	27°♑06'45	
evening set	-8688 Mar 11 j 00:07	28°♑20'59	
max. Earth dist.	-8688 Mar 22 j 06:30	28°♑36'54	46.70244 AU
conjunction	-8688 Mar 24 j 04:43	28°♑39'39	-8°45'47
minimum elong	-8688 Mar 24 j 04:55	28°♑39'40	8°46'18
morning rise	-8688 Apr 06 j 09:10	28°♑58'19	
	-8688 May 30 j 22:29	0°♒	
retrograde	-8688 Jul 03 j 10:34	0°♒12'26	
	-8688 Aug 05 j 22:30	30°℞♑	
opposition	-8688 Sep 22 j 04:14	29°♑11'32	-9°01'03
min. Earth dist.	-8688 Sep 23 j 21:38	29°♑09'29	44.64516 AU
direct	-8688 Dec 13 j 11:35	28°♑09'17	
evening set	-8687 Mar 12 j 03:42	29°♑23'32	
max. Earth dist.	-8687 Mar 23 j 14:17	29°♑39'45	46.53995 AU
conjunction	-8687 Mar 25 j 13:16	29°♑42'33	-8°29'53
minimum elong	-8687 Mar 25 j 13:27	29°♑42'33	8°30'24
	-8687 Apr 06 j 19:44	0°♒	
morning rise	-8687 Apr 07 j 22:16	0°♒01'33	
retrograde	-8687 Jul 04 j 18:14	1°♒15'37	
opposition	-8687 Sep 23 j 10:52	0°♒14'36	-8°44'25
min. Earth dist.	-8687 Sep 25 j 05:59	0°♒12'27	44.47875 AU
	-8687 Oct 05 j 18:54	30°℞♑	
direct	-8687 Dec 14 j 18:58	29°♑12'12	
	-8686 Feb 21 j 12:34	0°♒	
evening set	-8686 Mar 13 j 07:43	0°♒26'29	
max. Earth dist.	-8686 Mar 24 j 20:43	0°♒42'54	46.37258 AU
conjunction	-8686 Mar 26 j 21:45	0°♒45'50	-8°13'44
minimum elong	-8686 Mar 26 j 21:57	0°♒45'50	8°14'15
morning rise	-8686 Apr 09 j 11:24	1°♒05'10	
retrograde	-8686 Jul 06 j 00:47	2°♒19'11	
opposition	-8686 Sep 24 j 17:29	1°♒18'03	-8°27'29
min. Earth dist.	-8686 Sep 26 j 13:22	1°♒15'52	44.30747 AU
direct	-8686 Dec 16 j 03:50	0°♒15'28	
evening set	-8685 Mar 14 j 11:52	1°♒29'48	
max. Earth dist.	-8685 Mar 26 j 03:29	1°♒46'25	46.20023 AU
conjunction	-8685 Mar 28 j 06:28	1°♒49'28	-7°57'18
minimum elong	-8685 Mar 28 j 06:38	1°♒49'29	7°57'49
morning rise	-8685 Apr 11 j 00:29	2°♒09'08	
retrograde	-8685 Jul 07 j 07:24	3°♒23'08	
opposition	-8685 Sep 26 j 00:22	2°♒21'51	-8°10'15
min. Earth dist.	-8685 Sep 27 j 22:31	2°♒19'32	44.13144 AU
direct	-8685 Dec 17 j 11:59	1°♒19'05	
evening set	-8684 Mar 14 j 16:12	2°♒33'27	
max. Earth dist.	-8684 Mar 26 j 11:34	2°♒50'21	46.02343 AU
conjunction	-8684 Mar 28 j 15:13	2°♒53'27	-7°40'36
minimum elong	-8684 Mar 28 j 15:24	2°♒53'28	7°41'06
morning rise	-8684 Apr 11 j 13:29	3°♒13'26	
retrograde	-8684 Jul 07 j 15:12	4°♒27'25	
opposition	-8684 Sep 26 j 07:16	3°♒25'59	-7°52'45
min. Earth dist.	-8684 Sep 28 j 05:51	3°♒23'39	43.95105 AU
direct	-8684 Dec 17 j 18:55	2°♒23'01	
evening set	-8683 Mar 15 j 21:02	3°♒37'27	
max. Earth dist.	-8683 Mar 27 j 18:03	3°♒54'30	45.84247 AU
conjunction	-8683 Mar 30 j 00:07	3°♒57'46	-7°23'36
minimum elong	-8683 Mar 30 j 00:18	3°♒57'47	7°24'06
morning rise	-8683 Apr 13 j 02:37	4°♒18'04	
retrograde	-8683 Jul 09 j 01:31	5°♒32'04	
opposition	-8683 Sep 27 j 14:16	4°♒30'28	-7°34'56
min. Earth dist.	-8683 Sep 29 j 14:35	4°♒28'02	43.76700 AU
direct	-8683 Dec 19 j 00:11	3°♒27'18	
evening set	-8682 Mar 17 j 01:59	4°♒41'49	
max. Earth dist.	-8682 Mar 29 j 02:58	4°♒59'10	45.65804 AU
conjunction	-8682 Mar 31 j 09:17	5°♒02'27	-7°06'20
minimum elong	-8682 Mar 31 j 09:27	5°♒02'28	7°06'50
morning rise	-8682 Apr 14 j 15:35	5°♒23'03	
retrograde	-8682 Jul 10 j 10:12	6°♒37'04	
opposition	-8682 Sep 28 j 21:37	5°♒35'19	-7°16'48
min. Earth dist.	-8682 Sep 30 j 22:59	5°♒32'49	43.57976 AU
direct	-8682 Dec 20 j 08:28	4°♒31'56	
evening set	-8681 Mar 18 j 07:12	5°♒46'34	
max. Earth dist.	-8681 Mar 30 j 10:21	6°♒04'07	45.47086 AU
conjunction	-8681 Apr 01 j 18:14	6°♒07'31	-6°48'46
minimum elong	-8681 Apr 01 j 18:24	6°♒07'31	6°49'15
morning rise	-8681 Apr 16 j 04:28	6°♒28'25	
retrograde	-8681 Jul 11 j 19:24	7°♒42'29	
opposition	-8681 Sep 30 j 04:59	6°♒40'34	-6°58'22
min. Earth dist.	-8681 Oct 02 j 06:34	6°♒38'03	43.39011 AU
direct	-8681 Dec 21 j 16:58	5°♒36'59	
evening set	-8680 Mar 18 j 12:45	6°♒51'45	
max. Earth dist.	-8680 Mar 30 j 18:43	7°♒09'32	45.28124 AU
conjunction	-8680 Apr 02 j 03:38	7°♒13'01	-6°30'54
minimum elong	-8680 Apr 02 j 03:47	7°♒13'01	6°31'24
morning rise	-8680 Apr 16 j 17:27	7°♒34'14	
retrograde	-8680 Jul 12 j 02:05	8°♒48'21	
opposition	-8680 Sep 30 j 12:34	7°♒46'17	-6°39'37
min. Earth dist.	-8680 Oct 02 j 16:01	7°♒43'40	43.19824 AU
direct	-8680 Dec 22 j 02:01	6°♒42'30	
evening set	-8679 Mar 19 j 18:47	7°♒57'26	
max. Earth dist.	-8679 Apr 01 j 04:02	8°♒15'29	45.08963 AU
conjunction	-8679 Apr 03 j 13:16	8°♒19'00	-6°12'44
minimum elong	-8679 Apr 03 j 13:26	8°♒19'00	6°13'13
morning rise	-8679 Apr 18 j 06:34	8°♒40'31	
retrograde	-8679 Jul 13 j 09:48	9°♒54'45	
opposition	-8679 Oct 01 j 20:22	8°♒52'32	-6°20'32
min. Earth dist.	-8679 Oct 03 j 23:44	8°♒49'55	43.00431 AU
direct	-8679 Dec 23 j 10:46	7°♒48'34	
evening set	-8678 Mar 21 j 01:09	9°♒03'41	
max. Earth dist.	-8678 Apr 02 j 11:38	9°♒21'53	44.89579 AU
conjunction	-8678 Apr 04 j 22:58	9°♒25'33	-5°54'16
minimum elong	-8678 Apr 04 j 23:07	9°♒25'33	5°54'45
morning rise	-8678 Apr 19 j 19:41	9°♒47'21	
retrograde	-8678 Jul 14 j 22:07	11°♒01'44	
opposition	-8678 Oct 03 j 04:23	9°♒59'22	-6°01'08
min. Earth dist.	-8678 Oct 05 j 09:19	9°♒56'40	42.80817 AU
direct	-8678 Dec 24 j 15:07	8°♒55'12	
evening set	-8677 Mar 22 j 07:49	10°♒10'32	
max. Earth dist.	-8677 Apr 03 j 21:44	10°♒29'02	44.69945 AU
conjunction	-8677 Apr 06 j 09:04	10°♒32'42	-5°35'30
minimum elong	-8677 Apr 06 j 09:13	10°♒32'43	5°35'58
morning rise	-8677 Apr 21 j 08:48	10°♒54'49	
retrograde	-8677 Jul 16 j 08:25	12°♒09'20	
opposition	-8677 Oct 04 j 12:38	11°♒06'49	-5°41'25
min. Earth dist.	-8677 Oct 06 j 18:33	11°♒04'04	42.60920 AU
direct	-8677 Dec 25 j 22:22	10°♒02'29	

Attention, astronomical year style is used: The year -8676 in astronomical counting style is the year 8677 BCE in historical counting style.

evening set	-8676 Mar 22 j 15:00	11°♒18'04		
max. Earth dist.	-8676 Apr 04 j 05:55	11°♒36'42	44.50004 AU	
conjunction	-8676 Apr 06 j 19:12	11°♒40'31	-5°16'27	
minimum elong	-8676 Apr 06 j 19:21	11°♒40'31	5°16'54	
morning rise	-8676 Apr 21 j 22:08	12°♒02'54		
retrograde	-8676 Jul 16 j 19:43	13°♒17'36		
opposition	-8676 Oct 04 j 21:04	12°♒14'56	-5°21'23	
min. Earth dist.	-8676 Oct 07 j 03:52	12°♒12'07	42.40689 AU	
direct	-8676 Dec 26 j 07:06	11°♒10'23		
evening set	-8675 Mar 23 j 22:39	12°♒26'13		
max. Earth dist.	-8675 Apr 05 j 15:13	12°♒45'03	44.29670 AU	
conjunction	-8675 Apr 08 j 05:53	12°♒48'58	-4°57'05	
minimum elong	-8675 Apr 08 j 06:02	12°♒48'59	4°57'32	
morning rise	-8675 Apr 23 j 11:30	13°♒11'38		
retrograde	-8675 Jul 18 j 04:13	14°♒26'31		
opposition	-8675 Oct 06 j 05:53	13°♒23'41	-5°01'02	
min. Earth dist.	-8675 Oct 08 j 14:49	13°♒20'44	42.20049 AU	
direct	-8675 Dec 27 j 18:35	12°♒18'54		
evening set	-8674 Mar 25 j 06:47	13°♒35'00		
max. Earth dist.	-8674 Apr 07 j 01:03	13°♒54'02	44.08927 AU	
conjunction	-8674 Apr 09 j 16:44	13°♒58'02	-4°37'26	
minimum elong	-8674 Apr 09 j 16:52	13°♒58'03	4°37'53	
morning rise	-8674 Apr 25 j 01:02	14°♒20'59		
	-8674 May 23 j 23:59	15°♒		
retrograde	-8674 Jul 19 j 12:48	15°♒36'03		
	-8674 Sep 15 j 03:39	15°℞♒		
opposition	-8674 Oct 07 j 14:55	14°♒33'01	-4°40'23	
min. Earth dist.	-8674 Oct 10 j 00:08	14°♒30'03	41.98990 AU	
direct	-8674 Dec 29 j 05:25	13°♒28'00		
evening set	-8673 Mar 26 j 15:10	14°♒44'23		
	-8673 Apr 06 j 01:57	15°♒		
max. Earth dist.	-8673 Apr 08 j 09:37	15°♒03'31	43.87752 AU	
conjunction	-8673 Apr 11 j 03:38	15°♒07'41	-4°17'29	
minimum elong	-8673 Apr 11 j 03:45	15°♒07'41	4°17'56	
morning rise	-8673 Apr 26 j 14:28	15°♒30'54		
retrograde	-8673 Jul 20 j 23:50	16°♒46'11		
opposition	-8673 Oct 09 j 00:14	15°♒42'56	-4°19'24	
min. Earth dist.	-8673 Oct 11 j 11:34	15°♒39'51	41.77523 AU	
	-8673 Nov 15 j 13:54	15°℞♒		
direct	-8673 Dec 30 j 13:18	14°♒37'39		
	-8672 Feb 13 j 02:09	15°♒		
evening set	-8672 Mar 26 j 23:59	15°♒54'19		
max. Earth dist.	-8672 Apr 08 j 20:42	16°♒13'40	43.66180 AU	
conjunction	-8672 Apr 11 j 15:01	16°♒17'52	-3°57'15	
minimum elong	-8672 Apr 11 j 15:07	16°♒17'53	3°57'41	
morning rise	-8672 Apr 27 j 04:01	16°♒41'21		
retrograde	-8672 Jul 21 j 11:00	17°♒56'51		
opposition	-8672 Oct 09 j 09:37	16°♒53'23	-3°58'06	
min. Earth dist.	-8672 Oct 11 j 21:48	16°♒50'14	41.55675 AU	
direct	-8672 Dec 30 j 22:26	15°♒47'49		
evening set	-8671 Mar 28 j 09:26	17°♒04'47		
max. Earth dist.	-8671 Apr 10 j 06:00	17°♒24'15	43.44257 AU	
conjunction	-8671 Apr 13 j 02:31	17°♒28'37	-3°36'43	
minimum elong	-8671 Apr 13 j 02:38	17°♒28'37	3°37'09	
morning rise	-8671 Apr 28 j 17:48	17°♒52'20		
retrograde	-8671 Jul 23 j 00:50	19°♒08'05		
opposition	-8671 Oct 10 j 19:18	18°♒04'22	-3°36'29	
min. Earth dist.	-8671 Oct 13 j 08:21	18°♒01'10	41.33521 AU	
direct	-8670 Jan 01 j 06:40	16°♒58'31		
evening set	-8670 Mar 29 j 19:03	18°♒15'50		
max. Earth dist.	-8670 Apr 11 j 17:09	18°♒35'29	43.22030 AU	
conjunction	-8670 Apr 14 j 14:16	18°♒39'54	-3°15'53	
minimum elong	-8670 Apr 14 j 14:21	18°♒39'54	3°16'18	
morning rise	-8670 Apr 30 j 07:16	19°♒03'52		
retrograde	-8670 Jul 24 j 11:30	20°♒19'53		
opposition	-8670 Oct 12 j 05:23	19°♒15'55	-3°14'33	
min. Earth dist.	-8670 Oct 14 j 20:01	19°♒12'38	41.11103 AU	
direct	-8669 Jan 02 j 17:35	18°♒09'47		
evening set	-8669 Mar 31 j 05:13	19°♒27'28		
max. Earth dist.	-8669 Apr 13 j 04:24	19°♒47'17	42.99588 AU	
conjunction	-8669 Apr 16 j 02:10	19°♒51'47	-2°54'45	
minimum elong	-8669 Apr 16 j 02:15	19°♒51'47	2°55'10	
morning rise	-8669 May 01 j 20:58	20°♒15'59		
retrograde	-8669 Jul 25 j 21:11	21°♒32'17		
opposition	-8669 Oct 13 j 15:33	20°♒28'05	-2°52'16	
min. Earth dist.	-8669 Oct 16 j 06:02	20°♒24'47	40.88503 AU	
direct	-8668 Jan 04 j 06:13	19°♒21'39		
evening set	-8668 Mar 31 j 15:46	20°♒39'44		
max. Earth dist.	-8668 Apr 13 j 14:54	20°♒59'40	42.76964 AU	
conjunction	-8668 Apr 16 j 14:19	21°♒04'18	-2°33'19	
minimum elong	-8668 Apr 16 j 14:24	21°♒04'18	2°33'42	
morning rise	-8668 May 02 j 10:38	21°♒28'45		
retrograde	-8668 Jul 26 j 08:32	22°♒45'23		
opposition	-8668 Oct 14 j 02:11	21°♒40'57	-2°29'41	
min. Earth dist.	-8668 Oct 16 j 18:15	21°♒37'33	40.65753 AU	
direct	-8667 Jan 04 j 16:12	20°♒34'14		
evening set	-8667 Apr 02 j 02:52	21°♒52'45		
max. Earth dist.	-8667 Apr 15 j 03:48	22°♒12'54	42.54200 AU	
conjunction	-8667 Apr 18 j 02:55	22°♒17'33	-2°11'35	
minimum elong	-8667 Apr 18 j 02:59	22°♒17'33	2°11'59	
morning rise	-8667 May 04 j 00:25	22°♒42'13		
retrograde	-8667 Jul 27 j 20:15	23°♒59'14		
opposition	-8667 Oct 15 j 13:04	22°♒54'35	-2°06'46	
min. Earth dist.	-8667 Oct 18 j 05:12	22°♒51'09	40.42865 AU	
direct	-8666 Jan 06 j 02:30	21°♒47'36		
evening set	-8666 Apr 03 j 14:39	23°♒06'36		
max. Earth dist.	-8666 Apr 16 j 14:49	23°♒26'50	42.31301 AU	
conjunction	-8666 Apr 19 j 15:42	23°♒31'37	-1°49'33	
minimum elong	-8666 Apr 19 j 15:45	23°♒31'37	1°49'56	
morning rise	-8666 May 05 j 14:24	23°♒56'31		
retrograde	-8666 Jul 29 j 11:28	25°♒13'57		
opposition	-8666 Oct 17 j 00:18	24°♒09'04	-1°43'31	
min. Earth dist.	-8666 Oct 19 j 17:21	24°♒05'36	40.19851 AU	
direct	-8665 Jan 07 j 11:14	23°♒01'50		
evening set	-8665 Apr 05 j 02:40	24°♒21'21		
max. Earth dist.	-8665 Apr 18 j 03:48	24°♒41'47	42.08230 AU	
conjunction	-8665 Apr 21 j 04:49	24°♒46'36	-1°27'13	
minimum elong	-8665 Apr 21 j 04:52	24°♒46'36	1°27'36	
morning rise	-8665 May 07 j 04:13	25°♒11'42		
retrograde	-8665 Jul 31 j 01:21	26°♒29'36		
opposition	-8665 Oct 18 j 11:58	25°♒24'30	-1°19'57	
min. Earth dist.	-8665 Oct 21 j 06:20	25°♒20'57	39.96641 AU	
direct	-8664 Jan 08 j 23:20	24°♒17'01		
evening set	-8664 Apr 05 j 15:37	25°♒37'06		
max. Earth dist.	-8664 Apr 18 j 16:08	25°♒57'38	41.84944 AU	
conjunction	-8664 Apr 21 j 18:22	26°♒02'34	-1°04'36	
minimum elong	-8664 Apr 21 j 18:24	26°♒02'34	1°04'57	
morning rise	-8664 May 07 j 18:30	26°♒27'52		
retrograde	-8664 Jul 31 j 16:12	27°♒46'15		
opposition	-8664 Oct 18 j 23:44	26°♒40'56	-0°56'04	
min. Earth dist.	-8664 Oct 21 j 18:22	26°♒37'21	39.73190 AU	
direct	-8663 Jan 09 j 12:00	25°♒33'10		

Attention, astronomical year style is used: The year -8663 in astronomical counting style is the year 8664 BCE in historical counting style.

evening set	-8663 Apr 07 j 05:14	26°♒53'52	
max. Earth dist.	-8663 Apr 20 j 04:35	27°♒14'27	41.61357 AU
conjunction	-8663 Apr 23 j 08:28	27°♒19'31	-0°41'41
minimum elong	-8663 Apr 23 j 08:29	27°♒19'31	0°42'03
morning rise	-8663 May 09 j 08:52	27°♒45'02	
retrograde	-8663 Aug 02 j 04:34	29°♒03'56	
opposition	-8663 Oct 20 j 12:14	27°♒58'23	-0°31'52
min. Earth dist.	-8663 Oct 23 j 09:02	27°♒54'39	39.49429 AU
direct	-8662 Jan 11 j 00:31	26°♒50'20	
evening set	-8662 Apr 08 j 19:21	28°♒11'38	
max. Earth dist.	-8662 Apr 21 j 18:38	28°♒32'20	41.37443 AU
conjunction	-8662 Apr 24 j 22:49	28°♒37'29	-0°18'30
minimum elong	-8662 Apr 24 j 22:49	28°♒37'29	0°18'50
morning rise	-8662 May 10 j 23:18	29°♒03'10	
	-8662 Jun 22 j 04:57	0°♓	
retrograde	-8662 Aug 03 j 17:01	0°♓22'37	
	-8662 Sep 15 j 22:43	30°℞♒	
opposition	-8662 Oct 22 j 01:02	29°♒16'49	-0°07'20
min. Earth dist.	-8662 Oct 24 j 22:06	29°♒13'03	39.25330 AU
direct	-8661 Jan 12 j 13:55	28°♒08'27	
asc. node	-8661 Feb 07 j 13:25	28°♒16'43	
evening set	-8661 Apr 10 j 10:14	29°♒30'23	
max. Earth dist.	-8661 Apr 23 j 06:55	29°♒51'05	41.13182 AU
conjunction	-8661 Apr 26 j 13:31	29°♒56'25	0°05'05
minimum elong	-8661 Apr 26 j 13:31	29°♒56'25	0°04'44
behind sun begin	-8661 Apr 26 j 07:09	29°♒56'01	
behind sun end	-8661 Apr 26 j 19:53	29°♒56'49	
	-8661 Apr 28 j 18:23	0°♓	
morning rise	-8661 May 12 j 13:58	0°♓22'16	
retrograde	-8661 Aug 05 j 09:26	1°♓42'17	
opposition	-8661 Oct 23 j 14:06	0°♓36'12	0°17'29
min. Earth dist.	-8661 Oct 26 j 12:46	0°♓32'20	39.00913 AU
	-8661 Nov 21 j 14:30	30°℞♒	
direct	-8660 Jan 13 j 23:24	29°♒27'30	
	-8660 Mar 06 j 14:39	0°♓	
evening set	-8660 Apr 11 j 01:33	0°♓50'06	
max. Earth dist.	-8660 Apr 23 j 21:55	1°♓10'55	40.88596 AU
conjunction	-8660 Apr 27 j 04:44	1°♓16'17	0°28'48
minimum elong	-8660 Apr 27 j 04:43	1°♓16'17	0°28'28
morning rise	-8660 May 13 j 04:39	1°♓42'19	
retrograde	-8660 Aug 06 j 00:16	3°♓02'55	
opposition	-8660 Oct 24 j 03:42	1°♓56'31	0°42'38
min. Earth dist.	-8660 Oct 27 j 03:25	1°♓52'35	38.76183 AU
direct	-8659 Jan 14 j 12:18	0°♓47'28	
evening set	-8659 Apr 12 j 17:45	2°♓10'47	
max. Earth dist.	-8659 Apr 25 j 11:47	2°♓31'35	40.63729 AU
conjunction	-8659 Apr 28 j 20:10	2°♓37'06	0°52'50
minimum elong	-8659 Apr 28 j 20:08	2°♓37'06	0°52'31
morning rise	-8659 May 14 j 19:33	3°♓03'16	
retrograde	-8659 Aug 07 j 17:46	4°♓24'29	
opposition	-8659 Oct 25 j 17:30	3°♓17'46	1°08'04
min. Earth dist.	-8659 Oct 28 j 17:40	3°♓13'47	38.51221 AU
direct	-8658 Jan 16 j 02:42	2°♓08'21	
evening set	-8658 Apr 14 j 10:26	3°♓32'24	
max. Earth dist.	-8658 Apr 27 j 02:49	3°♓53'14	40.38633 AU
conjunction	-8658 Apr 30 j 12:04	3°♓58'51	1°17'08
minimum elong	-8658 Apr 30 j 12:02	3°♓58'51	1°16'50
morning rise	-8658 May 16 j 10:22	4°♓25'08	
retrograde	-8658 Aug 09 j 09:55	5°♓47'00	
opposition	-8658 Oct 27 j 07:57	4°♓39'58	1°33'48
min. Earth dist.	-8658 Oct 30 j 09:42	4°♓35'52	38.26082 AU
direct	-8657 Jan 17 j 18:25	3°♓30'10	
evening set	-8657 Apr 16 j 03:39	4°♓54'59	
max. Earth dist.	-8657 Apr 28 j 18:47	5°♓15'53	40.13400 AU
conjunction	-8657 May 02 j 04:05	5°♓21'34	1°41'42
minimum elong	-8657 May 02 j 04:02	5°♓21'33	1°41'25
morning rise	-8657 May 18 j 01:13	5°♓47'57	
retrograde	-8657 Aug 11 j 00:44	7°♓10'30	
opposition	-8657 Oct 28 j 22:40	6°♓03'08	1°59'49
min. Earth dist.	-8657 Oct 31 j 23:57	5°♓59'02	38.00841 AU
direct	-8656 Jan 19 j 10:56	4°♓52'57	
evening set	-8656 Apr 16 j 21:47	6°♓18'35	
max. Earth dist.	-8656 Apr 29 j 09:52	6°♓39'26	39.88073 AU
conjunction	-8656 May 02 j 20:40	6°♓45'16	2°06'31
minimum elong	-8656 May 02 j 20:36	6°♓45'15	2°06'14
morning rise	-8656 May 18 j 16:15	7°♓11'45	
retrograde	-8656 Aug 11 j 16:08	8°♓35'03	
opposition	-8656 Oct 29 j 13:48	7°♓27'20	2°26'06
min. Earth dist.	-8656 Nov 01 j 16:29	7°♓23'08	37.75560 AU
direct	-8655 Jan 20 j 00:47	6°♓16'47	
evening set	-8655 Apr 18 j 16:37	7°♓43'15	
max. Earth dist.	-8655 May 01 j 03:41	8°♓04'12	39.62719 AU
conjunction	-8655 May 04 j 13:49	8°♓10'02	2°31'35
minimum elong	-8655 May 04 j 13:44	8°♓10'02	2°31'18
morning rise	-8655 May 20 j 07:24	8°♓36'36	
retrograde	-8655 Aug 13 j 08:11	10°♓00'41	
opposition	-8655 Oct 31 j 05:35	8°♓52'39	2°52'39
min. Earth dist.	-8655 Nov 03 j 08:13	8°♓48'26	37.50268 AU
direct	-8654 Jan 21 j 15:33	7°♓41'43	
evening set	-8654 Apr 20 j 12:17	9°♓09'07	
max. Earth dist.	-8654 May 02 j 19:38	9°♓29'59	39.37363 AU
conjunction	-8654 May 06 j 07:08	9°♓35'57	2°56'51
minimum elong	-8654 May 06 j 07:02	9°♓35'57	2°56'35
morning rise	-8654 May 21 j 22:40	10°♓02'35	
retrograde	-8654 Aug 15 j 03:49	11°♓27'32	
opposition	-8654 Nov 01 j 21:45	10°♓19'10	3°19'27
min. Earth dist.	-8654 Nov 05 j 00:41	10°♓14'55	37.24995 AU
direct	-8653 Jan 23 j 04:21	9°♓07'52	
evening set	-8653 Apr 22 j 08:39	10°♓36'15	
max. Earth dist.	-8653 May 04 j 13:49	10°♓57'08	39.11991 AU
conjunction	-8653 May 08 j 01:12	11°♓03'08	3°22'21
minimum elong	-8653 May 08 j 01:04	11°♓03'07	3°22'06
morning rise	-8653 May 23 j 14:02	11°♓29'48	
retrograde	-8653 Aug 16 j 22:36	12°♓55'39	
opposition	-8653 Nov 03 j 14:26	11°♓46'58	3°46'30
min. Earth dist.	-8653 Nov 06 j 18:28	11°♓42'38	36.99699 AU
direct	-8652 Jan 24 j 20:28	10°♓35'19	
evening set	-8652 Apr 23 j 06:04	12°♓04'44	
max. Earth dist.	-8652 May 05 j 07:45	12°♓25'33	38.86578 AU
conjunction	-8652 May 08 j 19:39	12°♓31'38	3°48'03
minimum elong	-8652 May 08 j 19:31	12°♓31'38	3°47'49
morning rise	-8652 May 24 j 05:46	12°♓58'20	
retrograde	-8652 Aug 17 j 19:09	14°♓25'08	
opposition	-8652 Nov 04 j 07:39	13°♓16'08	4°13'46
min. Earth dist.	-8652 Nov 07 j 11:30	13°♓11'46	36.74341 AU
direct	-8651 Jan 25 j 14:49	12°♓04'06	
evening set	-8651 Apr 25 j 04:22	13°♓34'37	
max. Earth dist.	-8651 May 07 j 01:37	13°♓55'18	38.61044 AU
conjunction	-8651 May 10 j 14:45	14°♓01'32	4°13'57
minimum elong	-8651 May 10 j 14:36	14°♓01'31	4°13'44
morning rise	-8651 May 25 j 21:30	14°♓28'13	

Attention, astronomical year style is used: The year -8651 in astronomical counting style is the year 8652 BCE in historical counting style.

retrograde	-8651 Aug 19 j 15:06	15°♓56'01	
opposition	-8651 Nov 06 j 01:34	14°♓46'41	4°41'16
min. Earth dist.	-8651 Nov 09 j 07:11	14°♓42'12	36.48866 AU
direct	-8650 Jan 27 j 08:23	13°♓34'16	
evening set	-8650 Apr 27 j 03:36	15°♓05'55	
max. Earth dist.	-8650 May 08 j 21:28	15°♓26'32	38.35378 AU
conjunction	-8650 May 12 j 10:24	15°♓32'49	4°40'01
minimum elong	-8650 May 12 j 10:13	15°♓32'48	4°39'49
morning rise	-8650 May 27 j 13:29	15°♓59'28	
retrograde	-8650 Aug 21 j 09:20	17°♓28'19	
opposition	-8650 Nov 07 j 20:06	16°♓18'38	5°08'58
min. Earth dist.	-8650 Nov 11 j 01:26	16°♓14'08	36.23252 AU
direct	-8649 Jan 29 j 03:28	15°♓05'49	
evening set	-8649 Apr 29 j 03:43	16°♓38'39	
max. Earth dist.	-8649 May 10 j 15:42	16°♓59'01	38.09557 AU
conjunction	-8649 May 14 j 06:25	17°♓05'29	5°06'16
minimum elong	-8649 May 14 j 06:13	17°♓05'28	5°06'05
morning rise	-8649 May 29 j 05:35	17°♓32'06	
retrograde	-8649 Aug 23 j 05:52	19°♓02'03	
opposition	-8649 Nov 09 j 15:09	17°♓51'59	5°36'51
min. Earth dist.	-8649 Nov 12 j 21:44	17°♓47'23	35.97508 AU
direct	-8648 Jan 30 j 20:04	16°♓38'45	
evening set	-8648 Apr 30 j 04:50	18°♓12'49	
max. Earth dist.	-8648 May 11 j 12:56	18°♓33'04	37.83596 AU
conjunction	-8648 May 15 j 03:15	18°♓39'34	5°32'39
minimum elong	-8648 May 15 j 03:03	18°♓39'33	5°32'28
morning rise	-8648 May 29 j 21:50	19°♓06'05	
retrograde	-8648 Aug 24 j 02:13	20°♓37'11	
opposition	-8648 Nov 10 j 10:45	19°♓26'44	6°04'54
min. Earth dist.	-8648 Nov 13 j 17:56	19°♓22'05	35.71646 AU
direct	-8647 Jan 31 j 14:21	18°♓13'04	
evening set	-8647 May 02 j 07:08	19°♓48'25	
max. Earth dist.	-8647 May 13 j 08:58	20°♓08'24	37.57548 AU
conjunction	-8647 May 17 j 00:31	20°♓15'03	5°59'10
minimum elong	-8647 May 17 j 00:17	20°♓15'02	5°59'01
morning rise	-8647 May 31 j 14:24	20°♓41'27	
retrograde	-8647 Aug 26 j 01:37	22°♓13'46	
opposition	-8647 Nov 12 j 06:58	21°♓02'54	6°33'06
min. Earth dist.	-8647 Nov 15 j 14:13	20°♓58'13	35.45748 AU
direct	-8646 Feb 02 j 08:32	19°♓48'47	
evening set	-8646 May 04 j 10:05	21°♓25'29	
max. Earth dist.	-8646 May 15 j 06:41	21°♓45'15	37.31460 AU
conjunction	-8646 May 18 j 22:16	21°♓51'57	6°25'47
minimum elong	-8646 May 18 j 22:02	21°♓51'56	6°25'38
morning rise	-8646 Jun 02 j 06:43	22°♓18'12	
retrograde	-8646 Aug 28 j 00:21	23°♓51'47	
opposition	-8646 Nov 14 j 03:57	22°♓40'30	7°01'24
min. Earth dist.	-8646 Nov 17 j 12:11	22°♓35'44	35.19864 AU
direct	-8645 Feb 04 j 05:57	21°♓25'56	
evening set	-8645 May 06 j 14:15	23°♓04'02	
max. Earth dist.	-8645 May 17 j 05:14	23°♓23'35	37.05434 AU
conjunction	-8645 May 20 j 20:33	23°♓30'20	6°52'28
minimum elong	-8645 May 20 j 20:17	23°♓30'19	6°52'20
morning rise	-8645 Jun 03 j 23:20	23°♓56'23	
retrograde	-8645 Aug 30 j 00:39	25°♓31'17	
opposition	-8645 Nov 16 j 01:16	24°♓19'35	7°29'47
min. Earth dist.	-8645 Nov 19 j 08:39	24°♓14'50	34.94090 AU
direct	-8644 Feb 06 j 04:40	23°♓04'33	
evening set	-8644 May 07 j 19:26	24°♓44'10	
max. Earth dist.	-8644 May 18 j 03:31	25°♓03'21	36.79526 AU
conjunction	-8644 May 21 j 19:29	25°♓10'13	7°19'10
minimum elong	-8644 May 21 j 19:12	25°♓10'12	7°19'03
morning rise	-8644 Jun 04 j 16:01	25°♓36'03	
retrograde	-8644 Aug 30 j 23:49	27°♓12'21	
opposition	-8644 Nov 16 j 23:30	26°♓00'14	7°58'11
min. Earth dist.	-8644 Nov 20 j 07:50	25°♓55'24	34.68492 AU
direct	-8643 Feb 07 j 01:38	24°♓44'45	
evening set	-8643 May 10 j 01:44	26°♓25'55	
max. Earth dist.	-8643 May 20 j 04:19	26°♓44'52	36.53818 AU
conjunction	-8643 May 23 j 19:01	26°♓51'43	7°45'52
minimum elong	-8643 May 23 j 18:43	26°♓51'41	7°45'47
morning rise	-8643 Jun 06 j 08:43	27°♓17'16	
retrograde	-8643 Sep 01 j 21:59	28°♓55'03	
opposition	-8643 Nov 18 j 22:24	27°♓42'32	8°26'36
min. Earth dist.	-8643 Nov 22 j 05:44	27°♓37'43	34.43125 AU
direct	-8642 Feb 09 j 00:43	26°♓26'37	
evening set	-8642 May 12 j 09:16	28°♓09'25	
max. Earth dist.	-8642 May 22 j 03:40	28°♓27'56	36.28361 AU
conjunction	-8642 May 25 j 19:08	28°♓34'54	8°12'31
minimum elong	-8642 May 25 j 18:49	28°♓34'52	8°12'25
morning rise	-8642 Jun 08 j 01:42	29°♓00'08	
	-8642 Jul 13 j 12:06	0°♈	
retrograde	-8642 Sep 03 j 23:22	0°♈39'30	
	-8642 Oct 28 j 05:45	30°℞♓	
opposition	-8642 Nov 20 j 22:00	29°♓26'35	8°54'57
min. Earth dist.	-8642 Nov 24 j 05:22	29°♓21'44	34.18045 AU
direct	-8641 Feb 10 j 20:37	28°♓10'14	
evening set	-8641 May 14 j 17:47	29°♓54'47	
	-8641 May 17 j 11:42	0°♈	
max. Earth dist.	-8641 May 24 j 05:53	0°♈12'58	36.03168 AU
conjunction	-8641 May 27 j 19:57	0°♈19'53	8°39'05
minimum elong	-8641 May 27 j 19:37	0°♈19'52	8°39'02
morning rise	-8641 Jun 09 j 18:36	0°♈44'46	
retrograde	-8641 Sep 06 j 00:20	2°♈25'47	
opposition	-8641 Nov 22 j 22:26	1°♈12'29	9°23'14
min. Earth dist.	-8641 Nov 26 j 05:42	1°♈07'37	33.93221 AU
	-8640 Jan 26 j 07:07	30°℞♓	
direct	-8640 Feb 12 j 18:33	29°♓55'43	
	-8640 Mar 01 j 05:13	0°♈	
evening set	-8640 May 16 j 03:54	1°♈42'05	
max. Earth dist.	-8640 May 25 j 07:07	1°♈59'45	35.78223 AU
conjunction	-8640 May 28 j 21:27	2°♈06'46	9°05'32
minimum elong	-8640 May 28 j 21:06	2°♈06'45	9°05'29
morning rise	-8640 Jun 10 j 11:54	2°♈31'14	
retrograde	-8640 Sep 07 j 04:54	4°♈14'00	
opposition	-8640 Nov 23 j 23:26	3°♈00'19	9°51'23
min. Earth dist.	-8640 Nov 27 j 06:07	2°♈55'27	33.68644 AU
direct	-8639 Feb 13 j 17:49	1°♈43'08	
evening set	-8639 May 18 j 15:14	3°♈31'24	
max. Earth dist.	-8639 May 27 j 09:58	3°♈48'34	35.53475 AU
conjunction	-8639 May 30 j 23:53	3°♈55'37	9°31'51
minimum elong	-8639 May 30 j 23:31	3°♈55'35	9°31'50
morning rise	-8639 Jun 12 j 05:16	4°♈19'36	
retrograde	-8639 Sep 09 j 09:34	6°♈04'12	
opposition	-8639 Nov 26 j 01:35	4°♈50'06	10°19'23
min. Earth dist.	-8639 Nov 29 j 09:02	4°♈45'10	33.44263 AU
direct	-8638 Feb 15 j 18:41	3°♈32'31	
evening set	-8638 May 21 j 03:58	5°♈22'46	
max. Earth dist.	-8638 May 29 j 13:27	5°♈39'21	35.28917 AU
conjunction	-8638 Jun 02 j 02:47	5°♈46'26	9°57'58
minimum elong	-8638 Jun 02 j 02:25	5°♈46'24	9°57'57

Attention, astronomical year style is used: The year -8638 in astronomical counting style is the year 8639 BCE in historical counting style.

morning rise	-8638 Jun 13 j 22:37	6°♈09'52		
retrograde	-8638 Sep 11 j 15:13	7°♈56'22		
opposition	-8638 Nov 28 j 04:26	6°♈41'52	10°47'12	
min. Earth dist.	-8638 Dec 01 j 10:41	6°♈36'59	33.20065 AU	
direct	-8637 Feb 17 j 21:32	5°♈23'50		
evening set	-8637 May 23 j 18:07	7°♈16'09		
max. Earth dist.	-8637 May 31 j 16:51	7°♈32'01	35.04514 AU	
conjunction	-8637 Jun 04 j 06:39	7°♈39'12	10°23'51	
minimum elong	-8637 Jun 04 j 06:15	7°♈39'10	10°23'52	
morning rise	-8637 Jun 15 j 16:17	8°♈02'03		
retrograde	-8637 Sep 13 j 20:13	9°♈50'31		
opposition	-8637 Nov 30 j 08:04	8°♈35'36	11°14'46	
min. Earth dist.	-8637 Dec 03 j 15:15	8°♈30'37	32.96047 AU	
direct	-8636 Feb 19 j 23:37	7°♈17'07		
evening set	-8636 May 25 j 09:52	9°♈11'34		
max. Earth dist.	-8636 Jun 01 j 22:49	9°♈26'47	34.80298 AU	
conjunction	-8636 Jun 05 j 11:18	9°♈33'56	10°49'28	
minimum elong	-8636 Jun 05 j 10:54	9°♈33'54	10°49'29	
morning rise	-8636 Jun 16 j 09:52	9°♈56'05		
retrograde	-8636 Sep 15 j 01:34	11°♈46'36		
opposition	-8636 Dec 01 j 12:37	10°♈31'15	11°42'02	
min. Earth dist.	-8636 Dec 04 j 18:47	10°♈26'17	32.72221 AU	
direct	-8635 Feb 21 j 05:01	9°♈12'18		
evening set	-8635 May 28 j 02:59	11°♈08'59		
max. Earth dist.	-8635 Jun 04 j 03:23	11°♈23'18	34.56291 AU	
conjunction	-8635 Jun 07 j 16:31	11°♈30'34	11°14'45	
minimum elong	-8635 Jun 07 j 16:05	11°♈30'32	11°14'48	
morning rise	-8635 Jun 18 j 03:30	11°♈51'58		
retrograde	-8635 Sep 17 j 08:40	13°♈44'38		
opposition	-8635 Dec 03 j 18:02	12°♈28'49	12°08'57	
min. Earth dist.	-8635 Dec 07 j 00:17	12°♈23'50	32.48655 AU	
direct	-8634 Feb 23 j 07:55	11°♈09'24		
evening set	-8634 May 30 j 21:42	13°♈08'23		
max. Earth dist.	-8634 Jun 06 j 11:13	13°♈21'54	34.32563 AU	
conjunction	-8634 Jun 09 j 22:37	13°♈29'07	11°39'39	
minimum elong	-8634 Jun 09 j 22:12	13°♈29'05	11°39'42	
morning rise	-8634 Jun 19 j 20:55	13°♈49'39		
retrograde	-8634 Sep 19 j 13:44	15°♈44'34		
opposition	-8634 Dec 06 j 00:19	14°♈28'17	12°35'25	
min. Earth dist.	-8634 Dec 09 j 05:50	14°♈23'18	32.25403 AU	
direct	-8633 Feb 25 j 13:18	13°♈08'23		
evening set	-8633 Jun 02 j 17:55	15°♈09'47		
max. Earth dist.	-8633 Jun 08 j 17:52	15°♈22'17	34.09196 AU	
conjunction	-8633 Jun 12 j 05:09	15°♈29'33	12°04'04	
minimum elong	-8633 Jun 12 j 04:42	15°♈29'31	12°04'10	
morning rise	-8633 Jun 21 j 14:11	15°♈49'07		
retrograde	-8633 Sep 21 j 22:20	17°♈46'24		
opposition	-8633 Dec 08 j 07:22	16°♈29'39	13°01'22	
min. Earth dist.	-8633 Dec 11 j 11:44	16°♈24'43	32.02559 AU	
direct	-8632 Feb 27 j 17:43	15°♈09'16		
evening set	-8632 Jun 04 j 15:55	17°♈13'13		
max. Earth dist.	-8632 Jun 10 j 03:08	17°♈24'43	33.86254 AU	
conjunction	-8632 Jun 13 j 12:40	17°♈31'54	12°27'57	
minimum elong	-8632 Jun 13 j 12:14	17°♈31'52	12°28'03	
morning rise	-8632 Jun 22 j 07:10	17°♈50'25		
retrograde	-8632 Sep 23 j 06:17	19°♈50'10		
opposition	-8632 Dec 09 j 15:24	18°♈32'58	13°26'44	
min. Earth dist.	-8632 Dec 12 j 19:29	18°♈28'01	31.80190 AU	
direct	-8631 Feb 28 j 22:59	17°♈12'08		
evening set	-8631 Jun 07 j 15:54	19°♈18'45		
max. Earth dist.	-8631 Jun 12 j 12:32	19°♈29'05	33.63849 AU	
conjunction	-8631 Jun 15 j 20:48	19°♈36'13	12°51'12	
minimum elong	-8631 Jun 15 j 20:21	19°♈36'11	12°51'20	
morning rise	-8631 Jun 23 j 23:46	19°♈53'33		
retrograde	-8631 Sep 25 j 17:25	21°♈55'56		
opposition	-8631 Dec 12 j 00:20	20°♈38'17	13°51'24	
min. Earth dist.	-8631 Dec 15 j 02:10	20°♈33'27	31.58395 AU	
direct	-8630 Mar 03 j 07:15	19°♈17'00		
evening set	-8630 Jun 10 j 17:41	21°♈26'27		
max. Earth dist.	-8630 Jun 14 j 22:43	21°♈35'29	33.42033 AU	
conjunction	-8630 Jun 18 j 05:40	21°♈42'35	13°13'46	
minimum elong	-8630 Jun 18 j 05:14	21°♈42'32	13°13'54	
morning rise	-8630 Jun 25 j 15:50	21°♈58'35		
retrograde	-8630 Sep 28 j 05:00	24°♈03'45		
opposition	-8630 Dec 14 j 10:17	22°♈45'40	14°15'18	
min. Earth dist.	-8630 Dec 17 j 11:41	22°♈40'51	31.37219 AU	
direct	-8629 Mar 05 j 15:26	21°♈24'00		
evening set	-8629 Jun 13 j 22:07	23°♈36'27		
max. Earth dist.	-8629 Jun 17 j 10:44	23°♈44'07	33.20867 AU	
conjunction	-8629 Jun 20 j 15:24	23°♈51'04	13°35'33	
minimum elong	-8629 Jun 20 j 14:56	23°♈51'02	13°35'42	
morning rise	-8629 Jun 27 j 07:04	24°♈05'33		
retrograde	-8629 Sep 30 j 17:19	26°♈13'42		
opposition	-8629 Dec 16 j 20:51	24°♈55'14	14°38'21	
min. Earth dist.	-8629 Dec 19 j 19:51	24°♈50'32	31.16683 AU	
direct	-8628 Mar 07 j 02:05	23°♈33'11		
evening set	-8628 Jun 16 j 05:19	25°♈48'53		
max. Earth dist.	-8628 Jun 18 j 22:07	25°♈54'49	33.00339 AU	
conjunction	-8628 Jun 22 j 01:57	26°♈01'46	13°56'29	
minimum elong	-8628 Jun 22 j 01:31	26°♈01'43	13°56'39	
morning rise	-8628 Jun 27 j 21:11	26°♈14'31		
retrograde	-8628 Oct 02 j 06:15	28°♈25'52		
opposition	-8628 Dec 18 j 08:37	27°♈07'02	15°00'28	
min. Earth dist.	-8628 Dec 21 j 07:04	27°♈02'21	30.96786 AU	
direct	-8627 Mar 09 j 10:51	25°♈44'38		
evening set	-8627 Jun 19 j 16:26	28°♈03'53		
max. Earth dist.	-8627 Jun 21 j 12:16	28°♈07'56	32.80442 AU	
conjunction	-8627 Jun 24 j 13:16	28°♈14'42	14°16'30	
minimum elong	-8627 Jun 24 j 12:49	28°♈14'39	14°16'43	
morning rise	-8627 Jun 29 j 08:50	28°♈25'23		
	-8627 Aug 16 j 06:36	0°♉		
retrograde	-8627 Oct 04 j 19:23	0°♉40'15		
	-8627 Nov 25 j 12:11	30°℞♈		
opposition	-8627 Dec 20 j 21:24	29°♈21'04	15°21'35	
min. Earth dist.	-8627 Dec 23 j 17:53	29°♈16'29	30.77491 AU	
direct	-8626 Mar 11 j 23:02	27°♈58'21		
	-8626 Jun 13 j 15:35	0°♉		
evening set	-8626 Jun 23 j 09:27	0°♉21'39		
max. Earth dist.	-8626 Jun 24 j 00:59	0°♉23'06	32.61154 AU	
conjunction	-8626 Jun 27 j 01:21	0°♉29'51	14°35'32	
minimum elong	-8626 Jun 27 j 00:56	0°♉29'49	14°35'45	
morning rise	-8626 Jun 30 j 16:15	0°♉37'58		
retrograde	-8626 Oct 07 j 10:52	2°♉56'52		
opposition	-8626 Dec 23 j 11:00	1°♉37'19	15°41'38	
min. Earth dist.	-8626 Dec 26 j 06:12	1°♉32'48	30.58804 AU	
direct	-8625 Mar 14 j 09:24	0°♉14'16		
evening set	-8625 Jun 27 j 17:26	2°♉42'57		
max. Earth dist.	-8625 Jun 26 j 16:39	2°♉40'37	32.42462 AU	
conjunction	-8625 Jun 29 j 14:21	2°♉47'11	14°53'31	
minimum elong	-8625 Jun 29 j 13:55	2°♉47'09	14°53'46	
morning rise	-8625 Jul 01 j 10:23	2°♉51'21		
retrograde	-8625 Oct 09 j 23:59	5°♉15'37		

Attention, astronomical year style is used: The year -8625 in astronomical counting style is the year 8626 BCE in historical counting style.

opposition	-8625 Dec 26 j 01:41	3°♉55'43	16°00'32
min. Earth dist.	-8625 Dec 28 j 19:31	3°♉51'16	30.40686 AU
direct	-8624 Mar 15 j 22:30	2°♉32'20	
max. Earth dist.	-8624 Jun 28 j 07:16	5°♉00'05	32.24374 AU
conjunction	-8624 Jul 01 j 03:58	5°♉06'37	15°10'23
minimum elong	-8624 Jul 01 j 03:34	5°♉06'35	15°10'38
retrograde	-8624 Oct 11 j 16:15	7°♉36'25	
opposition	-8624 Dec 27 j 17:07	6°♉16'09	16°18'12
min. Earth dist.	-8624 Dec 30 j 08:48	6°♉11'50	30.23175 AU
direct	-8623 Mar 18 j 11:12	4°♉52'26	
max. Earth dist.	-8623 Jul 01 j 00:22	7°♉21'41	32.06910 AU
conjunction	-8623 Jul 03 j 18:30	7°♉28'02	15°26'02
minimum elong	-8623 Jul 03 j 18:07	7°♉27'59	15°26'20
retrograde	-8623 Oct 14 j 07:44	9°♉59'09	
opposition	-8623 Dec 30 j 09:41	8°♉38'31	16°34'33
min. Earth dist.	-8622 Jan 02 j 00:22	8°♉34'15	30.06296 AU
direct	-8622 Mar 21 j 00:08	7°♉14'28	
max. Earth dist.	-8622 Jul 03 j 17:14	9°♉45'05	31.90141 AU
conjunction	-8622 Jul 06 j 09:24	9°♉51'17	15°40'24
minimum elong	-8622 Jul 06 j 09:03	9°♉51'15	15°40'42
retrograde	-8622 Oct 17 j 01:23	12°♉23'41	
opposition	-8621 Jan 02 j 02:49	11°♉02'40	16°49'28
min. Earth dist.	-8621 Jan 04 j 14:31	10°♉58'35	29.90118 AU
direct	-8621 Mar 23 j 16:48	9°♉38'18	
max. Earth dist.	-8621 Jul 06 j 11:13	12°♉10'16	31.74109 AU
conjunction	-8621 Jul 09 j 01:06	12°♉16'18	15°53'23
minimum elong	-8621 Jul 09 j 00:46	12°♉16'16	15°53'43
retrograde	-8621 Oct 19 j 18:39	14°♉49'54	
opposition	-8620 Jan 04 j 20:45	13°♉28'30	17°02'52
min. Earth dist.	-8620 Jan 07 j 07:19	13°♉24'29	29.74705 AU
direct	-8620 Mar 25 j 08:42	12°♉03'50	
max. Earth dist.	-8620 Jul 08 j 06:27	14°♉37'08	31.58920 AU
conjunction	-8620 Jul 10 j 17:18	14°♉42'54	16°04'53
minimum elong	-8620 Jul 10 j 17:00	14°♉42'53	16°05'14
	-8620 Jul 17 j 23:40	15°♉	
retrograde	-8620 Oct 21 j 13:22	17°♉17'39	
opposition	-8619 Jan 06 j 15:30	15°♉55'55	17°14'38
min. Earth dist.	-8619 Jan 08 j 22:27	15°♉52'08	29.60146 AU
	-8619 Feb 12 j 12:41	15°℞♉	
direct	-8619 Mar 28 j 02:55	14°♉30'57	
	-8619 May 09 j 07:23	15°♉	
max. Earth dist.	-8619 Jul 11 j 01:25	17°♉05'28	31.44643 AU
conjunction	-8619 Jul 13 j 09:54	17°♉11'02	16°14'50
minimum elong	-8619 Jul 13 j 09:37	17°♉11'00	16°15'13
retrograde	-8619 Oct 24 j 08:46	19°♉46'53	
opposition	-8618 Jan 09 j 11:07	18°♉24'48	17°24'41
min. Earth dist.	-8618 Jan 11 j 16:11	18°♉21'08	29.46534 AU
direct	-8618 Mar 30 j 20:14	16°♉59'35	
max. Earth dist.	-8618 Jul 13 j 22:45	19°♉35'24	31.31384 AU
conjunction	-8618 Jul 16 j 03:08	19°♉40'37	16°23'08
minimum elong	-8618 Jul 16 j 02:54	19°♉40'35	16°23'30
retrograde	-8618 Oct 27 j 04:58	22°♉17'29	
opposition	-8617 Jan 12 j 07:14	20°♉55'06	17°32'55
min. Earth dist.	-8617 Jan 14 j 08:34	20°♉51'41	29.33930 AU
direct	-8617 Apr 02 j 16:57	19°♉29'41	
max. Earth dist.	-8617 Jul 16 j 18:39	22°♉06'34	31.19189 AU
conjunction	-8617 Jul 18 j 20:47	22°♉11'34	16°29'43
minimum elong	-8617 Jul 18 j 20:35	22°♉11'33	16°30'07
retrograde	-8617 Oct 30 j 01:14	24°♉49'25	

opposition	-8616 Jan 15 j 04:04	23°♉26'46	17°39'16
min. Earth dist.	-8616 Jan 17 j 02:48	23°♉23'32	29.22385 AU
direct	-8616 Apr 04 j 11:11	22°♉01'12	
max. Earth dist.	-8616 Jul 18 j 17:17	24°♉39'17	31.08086 AU
conjunction	-8616 Jul 20 j 14:59	24°♉43'52	16°34'30
minimum elong	-8616 Jul 20 j 14:49	24°♉43'51	16°34'55
retrograde	-8616 Oct 31 j 21:18	27°♉22'36	
opposition	-8615 Jan 17 j 01:36	25°♉59'45	17°43'41
min. Earth dist.	-8615 Jan 18 j 20:56	25°♉56'44	29.11887 AU
direct	-8615 Apr 07 j 08:08	24°♉34'04	
max. Earth dist.	-8615 Jul 21 j 14:06	27°♉13'03	30.98070 AU
conjunction	-8615 Jul 23 j 09:29	27°♉17'25	16°37'29
minimum elong	-8615 Jul 23 j 09:22	27°♉17'25	16°37'55
retrograde	-8615 Nov 03 j 19:55	29°♉56'59	
opposition	-8614 Jan 19 j 23:40	28°♉33'57	17°46'06
min. Earth dist.	-8614 Jan 21 j 15:41	28°♉31'09	29.02448 AU
direct	-8614 Apr 10 j 04:02	27°♉08'11	
max. Earth dist.	-8614 Jul 24 j 13:29	29°♉48'11	30.89115 AU
conjunction	-8614 Jul 26 j 04:26	29°♉52'08	16°38'36
minimum elong	-8614 Jul 26 j 04:21	29°♉52'07	16°39'02
	-8614 Jul 29 j 10:08	0°♊	
retrograde	-8614 Nov 06 j 15:41	2°♊32'25	
opposition	-8613 Jan 22 j 22:20	1°♊09'13	17°46'31
min. Earth dist.	-8613 Jan 24 j 11:40	1°♊06'37	28.94010 AU
	-8613 Mar 11 j 21:48	30°℞♉	
direct	-8613 Apr 13 j 01:14	29°♉43'24	
	-8613 May 14 j 06:14	0°♊	
max. Earth dist.	-8613 Jul 27 j 11:10	2°♊24'06	30.81195 AU
conjunction	-8613 Jul 28 j 23:40	2°♊27'49	16°37'50
minimum elong	-8613 Jul 28 j 23:38	2°♊27'49	16°38'18
retrograde	-8613 Nov 09 j 13:43	5°♊08'44	
opposition	-8612 Jan 25 j 21:12	3°♊45'24	17°44'53
min. Earth dist.	-8612 Jan 27 j 06:48	3°♊43'03	28.86568 AU
direct	-8612 Apr 14 j 22:21	2°♊19'33	
max. Earth dist.	-8612 Jul 29 j 10:55	5°♊01'02	30.74279 AU
conjunction	-8612 Jul 30 j 19:21	5°♊04'20	16°35'11
minimum elong	-8612 Jul 30 j 19:20	5°♊04'20	16°35'38
retrograde	-8612 Nov 11 j 10:32	7°♊45'46	
opposition	-8611 Jan 27 j 20:48	6°♊22'19	17°41'13
min. Earth dist.	-8611 Jan 29 j 04:03	6°♊20'08	28.80092 AU
direct	-8611 Apr 17 j 19:24	4°♊56'27	
max. Earth dist.	-8611 Aug 01 j 09:26	7°♊38'26	30.68380 AU
conjunction	-8611 Aug 02 j 14:58	7°♊41'28	16°30'37
minimum elong	-8611 Aug 02 j 15:00	7°♊41'28	16°31'06
retrograde	-8611 Nov 14 j 08:43	10°♊23'18	
opposition	-8610 Jan 30 j 20:30	8°♊59'44	17°35'28
min. Earth dist.	-8610 Jan 31 j 23:28	8°♊57'51	28.74595 AU
direct	-8610 Apr 20 j 18:00	7°♊33'52	
max. Earth dist.	-8610 Aug 04 j 08:58	10°♊16'19	30.63485 AU
conjunction	-8610 Aug 05 j 10:53	10°♊18'59	16°24'09
minimum elong	-8610 Aug 05 j 10:57	10°♊18'59	16°24'38
retrograde	-8610 Nov 17 j 05:06	13°♊01'07	
opposition	-8609 Feb 02 j 20:22	11°♊37'27	17°27'40
min. Earth dist.	-8609 Feb 03 j 21:02	11°♊35'43	28.70089 AU
direct	-8609 Apr 23 j 16:04	10°♊11'35	
max. Earth dist.	-8609 Aug 07 j 08:19	12°♊54'23	30.59643 AU
conjunction	-8609 Aug 08 j 06:43	12°♊56'41	16°15'45
minimum elong	-8609 Aug 08 j 06:51	12°♊56'41	16°16'16
retrograde	-8609 Nov 20 j 03:00	15°♊38'59	

Attention, astronomical year style is used: The year -8608 in astronomical counting style is the year 8609 BCE in historical counting style.

opposition	-8608 Feb 05 j 20:17	14°♊15'13	17°17'47
min. Earth dist.	-8608 Feb 06 j 16:29	14°♊13'48	28.66606 AU
direct	-8608 Apr 25 j 15:20	12°♊49'24	
max. Earth dist.	-8608 Aug 09 j 07:26	15°♊32'23	30.56871 AU
conjunction	-8608 Aug 10 j 02:23	15°♊34'19	16°05'27
minimum elong	-8608 Aug 10 j 02:32	15°♊34'20	16°05'59
retrograde	-8608 Nov 22 j 00:04	18°♊16'42	
opposition	-8607 Feb 07 j 20:25	16°♊52'51	17°05'50
min. Earth dist.	-8607 Feb 08 j 13:51	16°♊51'38	28.64210 AU
direct	-8607 Apr 28 j 13:16	15°♊27'06	
conjunction	-8607 Aug 12 j 21:59	18°♊11'45	15°53'14
minimum elong	-8607 Aug 12 j 22:12	18°♊11'46	15°53'47
max. Earth dist.	-8607 Aug 12 j 07:31	18°♊10'16	30.55256 AU
retrograde	-8607 Nov 24 j 21:33	20°♊54'05	
opposition	-8606 Feb 10 j 20:19	19°♊30'11	16°51'50
min. Earth dist.	-8606 Feb 11 j 09:10	19°♊29'17	28.62959 AU
direct	-8606 May 01 j 14:07	18°♊04'31	
conjunction	-8606 Aug 15 j 17:13	20°♊48'47	15°39'09
minimum elong	-8606 Aug 15 j 17:27	20°♊48'48	15°39'41
max. Earth dist.	-8606 Aug 15 j 06:02	20°♊47'38	30.54843 AU
retrograde	-8606 Nov 27 j 19:02	23°♊30'59	
opposition	-8605 Feb 13 j 20:08	22°♊07'04	16°35'47
min. Earth dist.	-8605 Feb 14 j 05:27	22°♊06'25	28.62922 AU
direct	-8605 May 04 j 12:04	20°♊41'31	
conjunction	-8605 Aug 18 j 12:26	23°♊25'19	15°23'11
minimum elong	-8605 Aug 18 j 12:43	23°♊25'21	15°23'44
max. Earth dist.	-8605 Aug 18 j 06:09	23°♊24'41	30.55687 AU
retrograde	-8605 Nov 30 j 15:18	26°♊07'16	
opposition	-8604 Feb 16 j 19:37	24°♊43'24	16°17'45
min. Earth dist.	-8604 Feb 17 j 00:40	24°♊43'03	28.64110 AU
direct	-8604 May 06 j 11:44	23°♊18'03	
conjunction	-8604 Aug 20 j 07:12	26°♊01'16	15°05'25
minimum elong	-8604 Aug 20 j 07:29	26°♊01'18	15°05'58
max. Earth dist.	-8604 Aug 20 j 03:56	26°♊00'56	30.57800 AU
retrograde	-8604 Dec 02 j 13:55	28°♊42'54	
opposition	-8603 Feb 18 j 19:02	27°♊19'06	15°57'48
min. Earth dist.	-8603 Feb 18 j 19:55	27°♊19'02	28.66555 AU
direct	-8603 May 09 j 10:26	25°♊53'58	
evening set	-8603 Aug 20 j 10:08	28°♊30'05	
conjunction	-8603 Aug 23 j 01:44	28°♊36'33	14°45'55
minimum elong	-8603 Aug 23 j 02:04	28°♊36'35	14°46'28
max. Earth dist.	-8603 Aug 23 j 03:36	28°♊36'44	30.61170 AU
morning rise	-8603 Aug 25 j 17:59	28°♊43'05	
	-8603 Sep 27 j 23:03	0°♋	
retrograde	-8603 Dec 05 j 08:57	1°♋17'46	
	-8602 Feb 18 j 04:48	30°℞♊	
opposition	-8602 Feb 21 j 18:13	29°♊54'05	15°36'00
min. Earth dist.	-8602 Feb 21 j 15:36	29°♊54'16	28.70198 AU
direct	-8602 May 12 j 09:36	28°♊29'14	
	-8602 Jul 26 j 14:18	0°♋	
evening set	-8602 Aug 21 j 14:33	1°♋00'46	
conjunction	-8602 Aug 25 j 19:51	1°♋11'03	14°24'45
minimum elong	-8602 Aug 25 j 20:12	1°♋11'05	14°25'18
max. Earth dist.	-8602 Aug 26 j 00:34	1°♋11'31	30.65742 AU
morning rise	-8602 Aug 30 j 01:49	1°♋21'23	
retrograde	-8602 Dec 08 j 05:54	3°♋51'46	
opposition	-8601 Feb 24 j 16:45	2°♋28'14	15°12'27
min. Earth dist.	-8601 Feb 24 j 09:46	2°♋28'43	28.75008 AU
direct	-8601 May 15 j 07:07	1°♋03'39	
evening set	-8601 Aug 23 j 04:15	3°♋31'34	
conjunction	-8601 Aug 28 j 13:45	3°♋44'39	14°02'01
minimum elong	-8601 Aug 28 j 14:08	3°♋44'41	14°02'35
max. Earth dist.	-8601 Aug 28 j 23:09	3°♋45'36	30.71449 AU
morning rise	-8601 Sep 02 j 23:52	3°♋57'47	
retrograde	-8601 Dec 11 j 00:36	6°♋24'46	
opposition	-8600 Feb 27 j 15:12	5°♋01'25	14°47'16
min. Earth dist.	-8600 Feb 27 j 05:27	5°♋02'05	28.80900 AU
direct	-8600 May 17 j 05:34	3°♋37'09	
evening set	-8600 Aug 23 j 21:53	6°♋01'48	
conjunction	-8600 Aug 30 j 07:00	6°♋17'12	13°37'49
minimum elong	-8600 Aug 30 j 07:22	6°♋17'15	13°38'23
max. Earth dist.	-8600 Aug 30 j 19:07	6°♋18'26	30.78234 AU
morning rise	-8600 Sep 05 j 16:49	6°♋32'40	
retrograde	-8600 Dec 12 j 20:25	8°♋56'40	
opposition	-8599 Mar 01 j 13:08	7°♋33'29	14°20'32
min. Earth dist.	-8599 Feb 28 j 22:48	7°♋34'28	28.87829 AU
direct	-8599 May 20 j 03:15	6°♋09'32	
evening set	-8599 Aug 25 j 17:54	8°♋31'10	
conjunction	-8599 Sep 02 j 00:01	8°♋48'34	13°12'15
minimum elong	-8599 Sep 02 j 00:25	8°♋48'37	13°12'48
max. Earth dist.	-8599 Sep 02 j 16:08	8°♋50'11	30.86025 AU
morning rise	-8599 Sep 09 j 06:50	9°♋06'03	
retrograde	-8599 Dec 15 j 12:29	11°♋27'16	
opposition	-8598 Mar 04 j 10:36	10°♋04'17	13°52'23
min. Earth dist.	-8598 Mar 03 j 17:59	10°♋05'25	28.95738 AU
direct	-8598 May 22 j 23:41	8°♋40'39	
evening set	-8598 Aug 27 j 15:30	10°♋59'24	
conjunction	-8598 Sep 04 j 16:26	11°♋18'35	12°45'24
minimum elong	-8598 Sep 04 j 16:49	11°♋18'38	12°45'57
max. Earth dist.	-8598 Sep 05 j 11:24	11°♋20'29	30.94790 AU
morning rise	-8598 Sep 12 j 18:06	11°♋37'50	
retrograde	-8598 Dec 18 j 06:16	13°♋56'26	
min. Earth dist.	-8597 Mar 06 j 10:27	12°♋35'03	29.04580 AU
opposition	-8597 Mar 07 j 07:20	12°♋33'38	13°22'55
direct	-8597 May 25 j 20:27	11°♋10'19	
evening set	-8597 Aug 29 j 14:02	13°♋26'20	
conjunction	-8597 Sep 07 j 08:15	13°♋47'05	12°17'22
minimum elong	-8597 Sep 07 j 08:40	13°♋47'08	12°17'55
max. Earth dist.	-8597 Sep 08 j 06:30	13°♋49'18	31.04464 AU
morning rise	-8597 Sep 16 j 03:19	14°♋07'55	
retrograde	-8597 Dec 20 j 21:56	16°♋24'01	
min. Earth dist.	-8596 Mar 08 j 04:21	15°♋02'58	29.14337 AU
opposition	-8596 Mar 09 j 03:32	15°♋01'24	12°52'13
direct	-8596 May 27 j 15:00	13°♋38'24	
evening set	-8596 Aug 30 j 13:24	15°♋51'45	
conjunction	-8596 Sep 08 j 23:30	16°♋13'56	11°48'15
minimum elong	-8596 Sep 08 j 23:54	16°♋13'58	11°48'48
max. Earth dist.	-8596 Sep 10 j 01:12	16°♋16'27	31.15069 AU
morning rise	-8596 Sep 18 j 10:23	16°♋36'12	
retrograde	-8596 Dec 22 j 13:01	18°♋49'52	
opposition	-8595 Mar 11 j 23:00	17°♋27'26	12°20'25
min. Earth dist.	-8595 Mar 10 j 19:48	17°♋29'17	29.25013 AU
direct	-8595 May 30 j 11:44	16°♋04'45	
evening set	-8595 Sep 01 j 13:06	18°♋15'32	
conjunction	-8595 Sep 11 j 13:51	18°♋38'59	11°18'08
minimum elong	-8595 Sep 11 j 14:16	18°♋39'02	11°18'41
max. Earth dist.	-8595 Sep 12 j 18:19	18°♋41'46	31.26593 AU
morning rise	-8595 Sep 21 j 15:40	19°♋02'32	
retrograde	-8595 Dec 25 j 04:29	21°♋13'54	
min. Earth dist.	-8594 Mar 13 j 11:41	19°♋53'41	29.36646 AU
opposition	-8594 Mar 14 j 17:48	19°♋51'40	11°47'35

Attention, astronomical year style is used: The year -8594 in astronomical counting style is the year 8595 BCE in historical counting style.

direct	-8594 Jun 02 j 04:40	18°♋29'17	
evening set	-8594 Sep 03 j 13:16	20°♋37'37	
conjunction	-8594 Sep 14 j 03:44	21°♋02'13	10°47'07
minimum elong	-8594 Sep 14 j 04:08	21°♋02'15	10°47'39
max. Earth dist.	-8594 Sep 15 j 12:11	21°♋05'22	31.39082 AU
morning rise	-8594 Sep 24 j 19:04	21°♋26'54	
retrograde	-8594 Dec 27 j 17:57	23°♋36'01	
min. Earth dist.	-8593 Mar 16 j 02:06	22°♋16'15	29.49248 AU
opposition	-8593 Mar 17 j 11:32	22°♋14'01	11°13'51
direct	-8593 Jun 04 j 23:25	20°♋51'59	
evening set	-8593 Sep 05 j 13:49	22°♋57'56	
conjunction	-8593 Sep 16 j 16:44	23°♋23'34	10°15'17
minimum elong	-8593 Sep 16 j 17:08	23°♋23'36	10°15'48
max. Earth dist.	-8593 Sep 18 j 03:32	23°♋26'55	31.52549 AU
morning rise	-8593 Sep 27 j 20:54	23°♋49'17	
retrograde	-8593 Dec 30 j 09:14	25°♋56'16	
min. Earth dist.	-8592 Mar 17 j 15:38	24°♋36'58	29.62864 AU
opposition	-8592 Mar 19 j 04:44	24°♋34'30	10°39'17
direct	-8592 Jun 06 j 16:00	23°♋12'51	
evening set	-8592 Sep 06 j 14:21	25°♋16'32	
conjunction	-8592 Sep 18 j 05:05	25°♋43'05	9°42'43
minimum elong	-8592 Sep 18 j 05:28	25°♋43'07	9°43'15
max. Earth dist.	-8592 Sep 19 j 20:15	25°♋46'49	31.67016 AU
morning rise	-8592 Sep 29 j 20:52	26°♋09'43	
retrograde	-8592 Dec 31 j 21:55	28°♋14'40	
min. Earth dist.	-8591 Mar 20 j 05:24	26°♋55'49	29.77470 AU
opposition	-8591 Mar 21 j 21:12	26°♋53'11	10°04'01
direct	-8591 Jun 09 j 09:34	25°♋31'56	
evening set	-8591 Sep 08 j 15:21	27°♋33'28	
conjunction	-8591 Sep 20 j 16:43	28°♋00'48	9°09'33
minimum elong	-8591 Sep 20 j 17:06	28°♋00'50	9°10'04
max. Earth dist.	-8591 Sep 22 j 10:01	28°♋04'43	31.82457 AU
morning rise	-8591 Oct 02 j 19:29	28°♋28'15	
	-8591 Nov 20 j 06:01	0°♌	
retrograde	-8590 Jan 03 j 11:28	0°♌31'15	
	-8590 Feb 18 j 13:34	30°℞♋	
min. Earth dist.	-8590 Mar 22 j 16:51	29°♋12'58	29.93048 AU
opposition	-8590 Mar 24 j 12:41	29°♋10'05	9°28'08
direct	-8590 Jun 12 j 00:17	27°♋49'16	
evening set	-8590 Sep 10 j 16:19	29°♋48'44	
	-8590 Sep 15 j 17:24	0°♌	
conjunction	-8590 Sep 23 j 03:46	0°♌16'47	8°35'50
minimum elong	-8590 Sep 23 j 04:06	0°♌16'49	8°36'22
max. Earth dist.	-8590 Sep 25 j 00:55	0°♌21'02	31.98812 AU
morning rise	-8590 Oct 05 j 16:31	0°♌44'57	
retrograde	-8589 Jan 05 j 22:08	2°♌46'05	
min. Earth dist.	-8589 Mar 25 j 05:48	1°♌28'15	30.09514 AU
opposition	-8589 Mar 27 j 03:31	1°♌25'15	8°51'46
direct	-8589 Jun 14 j 16:08	0°♌04'53	
evening set	-8589 Sep 12 j 17:30	2°♌02'22	
conjunction	-8589 Sep 25 j 13:58	2°♌31'02	8°01'42
minimum elong	-8589 Sep 25 j 14:18	2°♌31'04	8°02'12
max. Earth dist.	-8589 Sep 27 j 13:09	2°♌35'27	32.16010 AU
morning rise	-8589 Oct 08 j 11:57	2°♌59'50	
retrograde	-8588 Jan 08 j 10:18	4°♌59'11	
min. Earth dist.	-8588 Mar 26 j 15:59	3°♌41'56	30.26796 AU
opposition	-8588 Mar 28 j 17:27	3°♌38'42	8°15'00
direct	-8588 Jun 16 j 06:49	2°♌18'48	
evening set	-8588 Sep 13 j 18:50	4°♌14'23	
conjunction	-8588 Sep 26 j 23:39	4°♌43'35	7°27'15
minimum elong	-8588 Sep 26 j 23:57	4°♌43'36	7°27'45
max. Earth dist.	-8588 Sep 29 j 01:49	4°♌48'14	32.33955 AU
morning rise	-8588 Oct 10 j 06:06	5°♌12'55	
retrograde	-8587 Jan 09 j 19:07	7°♌10'34	
min. Earth dist.	-8587 Mar 29 j 03:54	5°♌53'45	30.44818 AU
opposition	-8587 Mar 31 j 06:50	5°♌50'27	7°37'57
direct	-8587 Jun 18 j 19:26	4°♌31'00	
evening set	-8587 Sep 15 j 20:13	6°♌24'46	
conjunction	-8587 Sep 29 j 08:39	6°♌54'24	6°52'32
minimum elong	-8587 Sep 29 j 08:57	6°♌54'25	6°53'01
max. Earth dist.	-8587 Oct 01 j 13:10	6°♌59'14	32.52583 AU
morning rise	-8587 Oct 12 j 22:43	7°♌24'11	
retrograde	-8586 Jan 12 j 03:22	9°♌20'12	
min. Earth dist.	-8586 Mar 31 j 13:18	8°♌03'55	30.63480 AU
opposition	-8586 Apr 02 j 19:14	8°♌00'26	7°00'43
direct	-8586 Jun 21 j 08:31	6°♌41'26	
evening set	-8586 Sep 17 j 21:51	8°♌33'27	
conjunction	-8586 Oct 01 j 17:02	9°♌03'27	6°17'41
minimum elong	-8586 Oct 01 j 17:17	9°♌03'29	6°18'09
max. Earth dist.	-8586 Oct 03 j 23:16	9°♌08'24	32.71782 AU
morning rise	-8586 Oct 15 j 14:11	9°♌33'37	
retrograde	-8585 Jan 14 j 12:00	11°♌28'04	
min. Earth dist.	-8585 Apr 02 j 23:16	10°♌12'12	30.82721 AU
opposition	-8585 Apr 05 j 06:51	10°♌08'38	6°23'22
direct	-8585 Jun 23 j 17:56	8°♌50'03	
evening set	-8585 Sep 19 j 23:21	10°♌40'24	
conjunction	-8585 Oct 04 j 00:50	11°♌10'42	5°42'44
minimum elong	-8585 Oct 04 j 01:05	11°♌10'44	5°43'11
max. Earth dist.	-8585 Oct 06 j 09:38	11°♌15'51	32.91512 AU
morning rise	-8585 Oct 18 j 04:04	11°♌41'10	
retrograde	-8584 Jan 16 j 18:59	13°♌34'06	
min. Earth dist.	-8584 Apr 04 j 08:09	12°♌18'41	31.02468 AU
opposition	-8584 Apr 06 j 17:44	12°♌15'00	5°46'00
direct	-8584 Jun 25 j 05:59	10°♌56'50	
evening set	-8584 Sep 21 j 00:49	12°♌45'34	
conjunction	-8584 Oct 05 j 07:38	13°♌16'05	5°07'46
minimum elong	-8584 Oct 05 j 07:51	13°♌16'06	5°08'13
max. Earth dist.	-8584 Oct 07 j 17:27	13°♌21'16	33.11715 AU
morning rise	-8584 Oct 19 j 16:39	13°♌46'46	
	-8584 Nov 28 j 14:52	15°♌	
retrograde	-8583 Jan 18 j 03:47	15°♌38'15	
	-8583 Mar 12 j 04:24	15°℞♌	
min. Earth dist.	-8583 Apr 06 j 16:03	14°♌23'15	31.22720 AU
opposition	-8583 Apr 09 j 03:55	14°♌19'28	5°08'40
direct	-8583 Jun 27 j 15:00	13°♌01'40	
evening set	-8583 Sep 23 j 02:10	14°♌48'52	
	-8583 Sep 28 j 09:35	15°♌	
conjunction	-8583 Oct 07 j 14:00	15°♌19'32	4°32'51
minimum elong	-8583 Oct 07 j 14:12	15°♌19'33	4°33'17
max. Earth dist.	-8583 Oct 10 j 02:48	15°♌24'56	33.32393 AU
morning rise	-8583 Oct 22 j 03:50	15°♌50'23	
retrograde	-8582 Jan 20 j 09:47	17°♌40'28	
min. Earth dist.	-8582 Apr 09 j 00:04	16°♌25'49	31.43462 AU
opposition	-8582 Apr 11 j 13:03	16°♌21'59	4°31'27
direct	-8582 Jun 30 j 00:56	15°♌04'33	
evening set	-8582 Sep 25 j 03:30	16°♌50'17	
conjunction	-8582 Oct 09 j 19:26	17°♌21'03	3°58'03
minimum elong	-8582 Oct 09 j 19:36	17°♌21'03	3°58'29
max. Earth dist.	-8582 Oct 12 j 09:09	17°♌26'29	33.53557 AU
morning rise	-8582 Oct 24 j 13:43	17°♌52'00	
retrograde	-8581 Jan 22 j 16:27	19°♌40'45	

Attention, astronomical year style is used: The year -8581 in astronomical counting style is the year 8582 BCE in historical counting style.

min. Earth dist.	-8581 Apr 11 j 05:27	18♌26'33	31.64735 AU
opposition	-8581 Apr 13 j 21:23	18♌22'32	3°54'25
direct	-8581 Jul 02 j 08:56	17♌05'29	
evening set	-8581 Sep 27 j 04:34	18♌49'49	
conjunction	-8581 Oct 12 j 00:08	19♌20'37	3°23'24
minimum elong	-8581 Oct 12 j 00:17	19♌20'38	3°23'48
max. Earth dist.	-8581 Oct 14 j 16:44	19♌26'15	33.75232 AU
morning rise	-8581 Oct 26 j 22:02	19♌51'37	
retrograde	-8580 Jan 24 j 20:22	21♌39'06	
min. Earth dist.	-8580 Apr 12 j 12:08	20♌25'14	31.86558 AU
opposition	-8580 Apr 15 j 05:02	20♌21'12	3°17'36
direct	-8580 Jul 03 j 18:45	19♌04'32	
evening set	-8580 Sep 28 j 05:38	20♌47'31	
conjunction	-8580 Oct 13 j 04:15	21♌18'19	2°48'58
minimum elong	-8580 Oct 13 j 04:22	21♌18'20	2°49'22
max. Earth dist.	-8580 Oct 15 j 22:14	21♌24'02	33.97461 AU
morning rise	-8580 Oct 28 j 05:15	21♌49'19	
retrograde	-8579 Jan 26 j 01:10	23♌35'35	
min. Earth dist.	-8579 Apr 14 j 15:55	22♌22'13	32.08953 AU
opposition	-8579 Apr 17 j 11:46	22♌18'00	2°41'04
direct	-8579 Jul 06 j 03:05	21♌01'44	
evening set	-8579 Sep 30 j 06:36	22♌43'29	
conjunction	-8579 Oct 15 j 07:38	23♌14'13	2°14'48
minimum elong	-8579 Oct 15 j 07:43	23♌14'14	2°15'11
max. Earth dist.	-8579 Oct 18 j 03:44	23♌20'04	34.20223 AU
morning rise	-8579 Oct 30 j 11:18	23♌45'11	
retrograde	-8578 Jan 28 j 03:23	25♌30'20	
min. Earth dist.	-8578 Apr 16 j 20:58	24♌17'20	32.31901 AU
opposition	-8578 Apr 19 j 17:53	24♌13'05	2°04'51
direct	-8578 Jul 08 j 09:00	22♌57'13	
evening set	-8578 Oct 02 j 07:26	24♌37'47	
conjunction	-8578 Oct 17 j 10:32	25♌08'26	1°40'56
minimum elong	-8578 Oct 17 j 10:36	25♌08'26	1°41'19
max. Earth dist.	-8578 Oct 20 j 08:41	25♌14'25	34.43501 AU
morning rise	-8578 Nov 01 j 16:04	25♌39'17	
retrograde	-8577 Jan 30 j 04:14	27♌23'23	
min. Earth dist.	-8577 Apr 18 j 23:58	26♌10'52	32.55339 AU
opposition	-8577 Apr 21 j 22:59	26♌06'30	1°29'02
direct	-8577 Jul 10 j 15:24	24♌51'03	
evening set	-8577 Oct 04 j 08:17	26♌30'32	
conjunction	-8577 Oct 19 j 12:38	27♌01'02	1°07'26
minimum elong	-8577 Oct 19 j 12:41	27♌01'02	1°07'47
max. Earth dist.	-8577 Oct 22 j 11:46	27♌07'02	34.67221 AU
morning rise	-8577 Nov 03 j 19:50	27♌31'45	
retrograde	-8576 Feb 01 j 07:17	29♌14'53	
min. Earth dist.	-8576 Apr 20 j 03:01	28♌02'47	32.79229 AU
opposition	-8576 Apr 23 j 03:41	27♌58'21	0°53'38
direct	-8576 Jul 11 j 17:59	26♌43'19	
evening set	-8576 Oct 05 j 08:49	28♌21'46	
conjunction	-8576 Oct 20 j 14:15	28♌52'05	0°34'19
minimum elong	-8576 Oct 20 j 14:17	28♌52'06	0°34'40
max. Earth dist.	-8576 Oct 23 j 15:49	28♌58'15	34.91328 AU
morning rise	-8576 Nov 04 j 22:17	29♌22'38	
	-8576 Nov 25 j 02:44	0♍	
retrograde	-8575 Feb 02 j 08:09	1♍04'51	
	-8575 Apr 17 j 12:34	30℞♌	
min. Earth dist.	-8575 Apr 22 j 06:15	29♌53'08	33.03469 AU
opposition	-8575 Apr 25 j 07:38	29♌48'41	0°18'41
direct	-8575 Jul 13 j 22:30	28♌34'04	
	-8575 Oct 01 j 08:34	0♍	
evening set	-8575 Oct 07 j 09:35	0♍11'34	

conjunction	-8575 Oct 22 j 15:21	0♍41'40	0°01'39
minimum elong	-8575 Oct 22 j 15:21	0♍41'40	0°01'59
behind sun begin	-8575 Oct 22 j 08:59	0♍41'10	
behind sun end	-8575 Oct 22 j 21:44	0♍42'10	
max. Earth dist.	-8575 Oct 25 j 17:06	0♍47'47	35.15729 AU
morning rise	-8575 Nov 07 j 00:01	1♍12'00	
desc. node	-8575 Nov 09 j 16:47	1♍17'12	
retrograde	-8574 Feb 04 j 11:32	2♍53'21	
min. Earth dist.	-8574 Apr 24 j 07:31	1♍42'05	33.27995 AU
opposition	-8574 Apr 27 j 10:45	1♍37'33	-0°15'45
direct	-8574 Jul 16 j 00:29	0♍23'20	
evening set	-8574 Oct 09 j 10:12	1♍59'56	
conjunction	-8574 Oct 24 j 16:01	2♍29'47	-0°30'41
minimum elong	-8574 Oct 24 j 16:00	2♍29'47	0°30'22
max. Earth dist.	-8574 Oct 27 j 19:48	2♍36'01	35.40341 AU
morning rise	-8574 Nov 09 j 00:38	2♍59'52	
retrograde	-8573 Feb 06 j 12:37	4♍40'24	
min. Earth dist.	-8573 Apr 26 j 10:18	3♍29'28	33.52709 AU
opposition	-8573 Apr 29 j 13:24	3♍24'57	-0°49'41
direct	-8573 Jul 18 j 03:38	2♍11'09	
evening set	-8573 Oct 11 j 10:38	3♍46'53	
conjunction	-8573 Oct 26 j 16:00	4♍16'28	-1°02'27
minimum elong	-8573 Oct 26 j 15:57	4♍16'28	1°02'09
max. Earth dist.	-8573 Oct 29 j 19:54	4♍22'40	35.65102 AU
morning rise	-8573 Nov 11 j 00:11	4♍46'16	
retrograde	-8572 Feb 08 j 13:17	6♍26'02	
min. Earth dist.	-8572 Apr 27 j 10:20	5♍15'31	33.77555 AU
opposition	-8572 Apr 30 j 15:20	5♍10'55	-1°23'04
direct	-8572 Jul 19 j 06:06	3♍57'29	
evening set	-8572 Oct 12 j 11:05	5♍32'25	
conjunction	-8572 Oct 27 j 15:30	6♍01'41	-1°33'44
minimum elong	-8572 Oct 27 j 15:27	6♍01'41	1°33'27
max. Earth dist.	-8572 Oct 30 j 20:27	6♍07'55	35.89951 AU
morning rise	-8572 Nov 11 j 22:55	6♍31'12	
retrograde	-8571 Feb 09 j 11:07	8♍10'13	
min. Earth dist.	-8571 Apr 29 j 11:54	6♍59'59	34.02508 AU
opposition	-8571 May 02 j 16:43	6♍55'25	-1°55'54
direct	-8571 Jul 21 j 08:41	5♍42'21	
evening set	-8571 Oct 14 j 11:14	7♍16'30	
conjunction	-8571 Oct 29 j 14:34	7♍45'26	-2°04'30
minimum elong	-8571 Oct 29 j 14:29	7♍45'26	2°04'13
max. Earth dist.	-8571 Nov 01 j 20:25	7♍51'42	36.14891 AU
morning rise	-8571 Nov 13 j 20:37	8♍14'36	
retrograde	-8570 Feb 11 j 07:49	9♍52'55	
min. Earth dist.	-8570 May 01 j 11:22	8♍43'03	34.27547 AU
opposition	-8570 May 04 j 17:17	8♍38'26	-2°28'08
direct	-8570 Jul 23 j 11:24	7♍25'42	
evening set	-8570 Oct 16 j 11:21	8♍59'08	
conjunction	-8570 Oct 31 j 12:51	9♍27'43	-2°34'44
minimum elong	-8570 Oct 31 j 12:45	9♍27'42	2°34'29
max. Earth dist.	-8570 Nov 03 j 18:56	9♍33'56	36.39908 AU
morning rise	-8570 Nov 15 j 17:24	9♍56'31	
retrograde	-8569 Feb 13 j 06:14	11♍34'11	
min. Earth dist.	-8569 May 03 j 10:31	10♍24'37	34.52720 AU
opposition	-8569 May 06 j 17:13	10♍19'59	-2°59'46
direct	-8569 Jul 25 j 10:27	9♍07'35	
evening set	-8569 Oct 18 j 11:07	10♍40'20	
conjunction	-8569 Nov 02 j 10:44	11♍08'31	-3°04'25
minimum elong	-8569 Nov 02 j 10:37	11♍08'31	3°04'11
max. Earth dist.	-8569 Nov 05 j 18:39	11♍14'50	36.65067 AU
morning rise	-8569 Nov 17 j 13:05	11♍36'57	

Attention, astronomical year style is used: The year -8568 in astronomical counting style is the year 8569 BCE in historical counting style.

retrograde	-8568 Feb 15 j 02:42	13°♑14'00	
min. Earth dist.	-8568 May 04 j 09:30	12°♑04'44	34.78055 AU
opposition	-8568 May 07 j 16:35	12°♑00'06	-3°30'48
direct	-8568 Jul 26 j 10:44	10°♑48'02	
evening set	-8568 Oct 19 j 10:47	12°♑20'08	
conjunction	-8568 Nov 03 j 07:53	12°♑47'56	-3°33'32
minimum elong	-8568 Nov 03 j 07:46	12°♑47'55	3°33'19
max. Earth dist.	-8568 Nov 06 j 15:42	12°♑54'11	36.90399 AU
morning rise	-8568 Nov 18 j 07:58	13°♑15'56	
retrograde	-8567 Feb 16 j 02:22	14°♑52'26	
min. Earth dist.	-8567 May 06 j 06:36	13°♑43'32	35.03598 AU
opposition	-8567 May 09 j 15:22	13°♑38'50	-4°01'11
direct	-8567 Jul 28 j 07:28	12°♑27'06	
evening set	-8567 Oct 21 j 10:22	13°♑58'38	
conjunction	-8567 Nov 05 j 04:47	14°♑26'00	-4°02'04
minimum elong	-8567 Nov 05 j 04:38	14°♑26'00	4°01'51
max. Earth dist.	-8567 Nov 08 j 14:28	14°♑32'22	37.15918 AU
morning rise	-8567 Nov 20 j 02:03	14°♑53'36	
retrograde	-8566 Feb 17 j 23:31	16°♑29'34	
min. Earth dist.	-8566 May 08 j 05:00	15°♑20'56	35.29336 AU
opposition	-8566 May 11 j 13:28	15°♑16'17	-4°30'55
direct	-8566 Jul 30 j 04:48	14°♑04'53	
evening set	-8566 Oct 23 j 09:45	15°♑35'54	
conjunction	-8566 Nov 07 j 01:08	16°♑02'50	-4°30'01
minimum elong	-8566 Nov 07 j 00:59	16°♑02'50	4°29'49
max. Earth dist.	-8566 Nov 10 j 11:02	16°♑09'10	37.41626 AU
morning rise	-8566 Nov 21 j 19:17	16°♑29'59	
retrograde	-8565 Feb 19 j 19:39	18°♑05'28	
min. Earth dist.	-8565 May 10 j 00:48	16°♑57'16	35.55251 AU
opposition	-8565 May 13 j 11:03	16°♑52'31	-5°00'00
direct	-8565 Aug 01 j 03:45	15°♑41'28	
evening set	-8565 Oct 25 j 08:56	17°♑12'01	
conjunction	-8565 Nov 08 j 20:49	17°♑38'30	-4°57'22
minimum elong	-8565 Nov 08 j 20:39	17°♑38'29	4°57'10
max. Earth dist.	-8565 Nov 12 j 07:40	17°♑44'51	37.67469 AU
morning rise	-8565 Nov 23 j 11:38	18°♑05'12	
retrograde	-8564 Feb 21 j 14:48	19°♑40'15	
min. Earth dist.	-8564 May 10 j 22:09	18°♑32'20	35.81303 AU
opposition	-8564 May 14 j 08:20	18°♑27'37	-5°28'26
direct	-8564 Aug 02 j 02:12	17°♑16'56	
evening set	-8564 Oct 26 j 08:02	18°♑47'02	
conjunction	-8564 Nov 09 j 16:23	19°♑13'03	-5°24'06
minimum elong	-8564 Nov 09 j 16:12	19°♑13'02	5°23'56
max. Earth dist.	-8564 Nov 13 j 04:09	19°♑19'26	37.93418 AU
morning rise	-8564 Nov 24 j 03:18	19°♑39'17	
retrograde	-8563 Feb 22 j 08:17	21°♑13'57	
min. Earth dist.	-8563 May 12 j 18:07	20°♑06'23	36.07415 AU
opposition	-8563 May 16 j 04:51	20°♑01'39	-5°56'13
direct	-8563 Aug 04 j 00:48	18°♑51'19	
evening set	-8563 Oct 28 j 07:14	20°♑21'01	
conjunction	-8563 Nov 11 j 11:25	20°♑46'33	-5°50'15
minimum elong	-8563 Nov 11 j 11:13	20°♑46'32	5°50'05
max. Earth dist.	-8563 Nov 14 j 22:50	20°♑52'52	38.19377 AU
morning rise	-8563 Nov 25 j 18:28	21°♑12'17	
retrograde	-8562 Feb 24 j 03:39	22°♑46'37	
min. Earth dist.	-8562 May 14 j 13:55	21°♑39'22	36.33527 AU
opposition	-8562 May 18 j 01:04	21°♑34'38	-6°23'21
direct	-8562 Aug 05 j 20:02	20°♑24'39	
evening set	-8562 Oct 30 j 06:12	21°♑53'58	
conjunction	-8562 Nov 13 j 06:13	22°♑19'01	-6°15'48
minimum elong	-8562 Nov 13 j 06:01	22°♑19'00	6°15'41
max. Earth dist.	-8562 Nov 16 j 18:53	22°♑25'22	38.45278 AU
morning rise	-8562 Nov 27 j 08:45	22°♑44'15	
retrograde	-8561 Feb 25 j 21:27	24°♑18'15	
min. Earth dist.	-8561 May 16 j 10:12	23°♑11'15	36.59539 AU
opposition	-8561 May 19 j 20:40	23°♑06'35	-6°49'50
direct	-8561 Aug 07 j 15:56	21°♑56'55	
evening set	-8561 Nov 01 j 05:14	23°♑25'55	
conjunction	-8561 Nov 15 j 00:35	23°♑50'27	-6°40'46
minimum elong	-8561 Nov 15 j 00:23	23°♑50'26	6°40'38
max. Earth dist.	-8561 Nov 18 j 12:10	23°♑56'41	38.71053 AU
morning rise	-8561 Nov 28 j 22:33	24°♑15'10	
retrograde	-8560 Feb 27 j 18:00	25°♑48'51	
min. Earth dist.	-8560 May 17 j 04:34	24°♑42'11	36.85411 AU
opposition	-8560 May 20 j 15:55	24°♑37'29	-7°15'40
direct	-8560 Aug 08 j 09:04	23°♑28'08	
evening set	-8560 Nov 02 j 04:01	24°♑56'48	
conjunction	-8560 Nov 15 j 18:35	25°♑20'49	-7°05'09
minimum elong	-8560 Nov 15 j 18:22	25°♑20'48	7°05'03
max. Earth dist.	-8560 Nov 19 j 06:52	25°♑27'03	38.96644 AU
morning rise	-8560 Nov 29 j 11:42	25°♑45'01	
retrograde	-8559 Feb 28 j 11:54	27°♑18'25	
min. Earth dist.	-8559 May 19 j 00:47	26°♑11'55	37.11086 AU
opposition	-8559 May 22 j 10:49	26°♑07'19	-7°40'53
direct	-8559 Aug 10 j 03:57	24°♑58'15	
evening set	-8559 Nov 04 j 02:47	26°♑26'38	
conjunction	-8559 Nov 17 j 12:20	26°♑50'06	-7°28'56
minimum elong	-8559 Nov 17 j 12:07	26°♑50'06	7°28'50
max. Earth dist.	-8559 Nov 21 j 00:08	26°♑56'16	39.22036 AU
morning rise	-8559 Dec 01 j 00:11	27°♑13'46	
retrograde	-8558 Mar 02 j 04:35	28°♑46'53	
min. Earth dist.	-8558 May 20 j 18:17	27°♑40'40	37.36556 AU
opposition	-8558 May 24 j 04:56	27°♑36'02	-8°05'28
direct	-8558 Aug 12 j 00:23	26°♑27'14	
evening set	-8558 Nov 06 j 01:24	27°♑55'20	
conjunction	-8558 Nov 19 j 05:29	28°♑18'17	-7°52'09
minimum elong	-8558 Nov 19 j 05:15	28°♑18'16	7°52'04
max. Earth dist.	-8558 Nov 22 j 17:01	28°♑24'23	39.47222 AU
morning rise	-8558 Dec 02 j 12:03	28°♑41'24	
	-8557 Jan 29 j 05:48	0°♎	
retrograde	-8557 Mar 03 j 20:47	0°♎14'15	
	-8557 Apr 07 j 01:34	30°℞♍	
min. Earth dist.	-8557 May 22 j 12:44	29°♍08'13	37.61866 AU
opposition	-8557 May 25 j 22:50	29°♍03'39	-8°29'25
direct	-8557 Aug 13 j 19:17	27°♍55'06	
evening set	-8557 Nov 07 j 23:33	29°♍22'57	
conjunction	-8557 Nov 20 j 22:11	29°♍45'21	-8°14'46
minimum elong	-8557 Nov 20 j 21:58	29°♍45'20	8°14'41
max. Earth dist.	-8557 Nov 24 j 10:30	29°♍51'28	39.72270 AU
	-8557 Nov 29 j 08:40	0°♎	
morning rise	-8557 Dec 03 j 22:54	0°♎07'54	
retrograde	-8556 Mar 04 j 10:49	1°♎40'32	
min. Earth dist.	-8556 May 23 j 06:11	0°♎34'44	37.87047 AU
opposition	-8556 May 26 j 16:10	0°♎30'10	-8°52'44
	-8556 Jun 19 j 02:34	30°℞♍	
direct	-8556 Aug 14 j 14:52	29°♍21'52	
	-8556 Oct 07 j 19:06	0°♎	
evening set	-8556 Nov 08 j 21:55	0°♎49'31	
conjunction	-8556 Nov 21 j 14:34	1°♎11'20	-8°36'47
minimum elong	-8556 Nov 21 j 14:19	1°♎11'19	8°36'44
max. Earth dist.	-8556 Nov 25 j 02:01	1°♎17'21	39.97214 AU

Attention, astronomical year style is used: The year -8556 in astronomical counting style is the year 8557 BCE in historical counting style.

morning rise	-8556 Dec 04 j 09:28	1°♎33'20	
retrograde	-8555 Mar 06 j 03:24	3°♎05'47	
min. Earth dist.	-8555 May 24 j 22:30	2°♎00'14	38.12168 AU
opposition	-8555 May 28 j 09:03	1°♎55'40	-9°15'24
direct	-8555 Aug 16 j 06:57	0°♎47'37	
evening set	-8555 Nov 10 j 19:59	2°♎15'05	
conjunction	-8555 Nov 23 j 06:40	2°♎36'21	-8°58'13
minimum elong	-8555 Nov 23 j 06:26	2°♎36'20	8°58'10
max. Earth dist.	-8555 Nov 26 j 19:22	2°♎42'25	40.22100 AU
morning rise	-8555 Dec 05 j 19:22	2°♎57'46	
retrograde	-8554 Mar 07 j 19:33	4°♎30'04	
min. Earth dist.	-8554 May 26 j 15:51	3°♎24'42	38.37230 AU
opposition	-8554 May 30 j 01:34	3°♎20'12	-9°37'26
direct	-8554 Aug 17 j 22:57	2°♎12'25	
evening set	-8554 Nov 12 j 18:00	3°♎39'45	
conjunction	-8554 Nov 24 j 22:20	4°♎00'27	-9°19'03
minimum elong	-8554 Nov 24 j 22:05	4°♎00'26	9°19'02
max. Earth dist.	-8554 Nov 28 j 10:17	4°♎06'25	40.46937 AU
morning rise	-8554 Dec 07 j 04:34	4°♎21'17	
retrograde	-8553 Mar 09 j 12:45	5°♎53'27	
min. Earth dist.	-8553 May 28 j 06:47	4°♎48'24	38.62240 AU
opposition	-8553 May 31 j 17:35	4°♎43'52	-9°58'50
direct	-8553 Aug 19 j 13:25	3°♎36'21	
evening set	-8553 Nov 14 j 15:53	5°♎03'36	
conjunction	-8553 Nov 26 j 13:39	5°♎23'42	-9°39'18
minimum elong	-8553 Nov 26 j 13:24	5°♎23'41	9°39'16
max. Earth dist.	-8553 Nov 30 j 02:01	5°♎29'40	40.71708 AU
morning rise	-8553 Dec 08 j 13:23	5°♎43'57	
retrograde	-8552 Mar 10 j 03:29	7°♎16'03	
min. Earth dist.	-8552 May 28 j 23:35	6°♎11'12	38.87181 AU
opposition	-8552 Jun 01 j 09:25	6°♎06'44	-10°19'36
direct	-8552 Aug 20 j 06:02	4°♎59'31	
evening set	-8552 Nov 15 j 13:36	6°♎26'41	
conjunction	-8552 Nov 27 j 04:45	6°♎46'13	-9°58'58
minimum elong	-8552 Nov 27 j 04:30	6°♎46'12	9°58'58
max. Earth dist.	-8552 Nov 30 j 17:22	6°♎52'10	40.96393 AU
morning rise	-8552 Dec 08 j 21:30	7°♎05'52	
retrograde	-8551 Mar 11 j 16:21	8°♎37'54	
min. Earth dist.	-8551 May 30 j 14:44	7°♎33'20	39.11989 AU
opposition	-8551 Jun 03 j 00:46	7°♎28'53	-10°39'46
direct	-8551 Aug 21 j 23:56	6°♎21'56	
evening set	-8551 Nov 17 j 11:32	7°♎49'05	
conjunction	-8551 Nov 28 j 19:33	8°♎08'01	-10°18'04
minimum elong	-8551 Nov 28 j 19:19	8°♎08'00	10°18'05
max. Earth dist.	-8551 Dec 02 j 07:13	8°♎13'52	41.20910 AU
morning rise	-8551 Dec 10 j 05:23	8°♎27'04	
retrograde	-8550 Mar 13 j 07:01	9°♎59'05	
min. Earth dist.	-8550 Jun 01 j 06:03	8°♎54'45	39.36619 AU
opposition	-8550 Jun 04 j 15:44	8°♎50'20	-10°59'20
direct	-8550 Aug 23 j 15:03	7°♎43'40	
evening set	-8550 Nov 19 j 09:15	9°♎10'48	
conjunction	-8550 Nov 30 j 10:13	9°♎29'08	-10°36'37
minimum elong	-8550 Nov 30 j 09:58	9°♎29'07	10°36'39
max. Earth dist.	-8550 Dec 03 j 22:27	9°♎35'00	41.45209 AU
morning rise	-8550 Dec 11 j 12:38	9°♎47'35	
retrograde	-8549 Mar 14 j 19:49	11°♎19'36	
min. Earth dist.	-8549 Jun 02 j 21:58	10°♎15'28	39.60983 AU
opposition	-8549 Jun 06 j 06:27	10°♎11'07	-11°18'20
direct	-8549 Aug 25 j 07:01	9°♎04'44	
evening set	-8549 Nov 21 j 06:59	10°♎31'52	

conjunction	-8549 Dec 02 j 00:24	10°♎49'35	-10°54'38
minimum elong	-8549 Dec 02 j 00:10	10°♎49'34	10°54'41
max. Earth dist.	-8549 Dec 05 j 11:05	10°♎55'18	41.69219 AU
morning rise	-8549 Dec 12 j 19:17	11°♎07'25	
retrograde	-8548 Mar 15 j 12:10	12°♎39'26	
min. Earth dist.	-8548 Jun 03 j 12:11	11°♎35'33	39.85037 AU
opposition	-8548 Jun 06 j 20:54	11°♎31'13	-11°36'46
direct	-8548 Aug 25 j 19:24	10°♎25'04	
evening set	-8548 Nov 22 j 04:44	11°♎52'13	
conjunction	-8548 Dec 02 j 14:33	12°♎09'20	-11°12'08
minimum elong	-8548 Dec 02 j 14:18	12°♎09'19	11°12'11
max. Earth dist.	-8548 Dec 06 j 01:19	12°♎15'01	41.92881 AU
morning rise	-8548 Dec 13 j 01:44	12°♎26'32	
retrograde	-8547 Mar 17 j 04:01	13°♎58'34	
min. Earth dist.	-8547 Jun 05 j 04:06	12°♎54'48	40.08727 AU
opposition	-8547 Jun 08 j 11:00	12°♎50'35	-11°54'39
direct	-8547 Aug 27 j 07:51	11°♎44'39	
evening set	-8547 Nov 24 j 02:32	13°♎11'51	
conjunction	-8547 Dec 04 j 04:28	13°♎28'20	-11°29'07
minimum elong	-8547 Dec 04 j 04:14	13°♎28'19	11°29'11
max. Earth dist.	-8547 Dec 07 j 14:12	13°♎33'55	42.16185 AU
morning rise	-8547 Dec 14 j 07:32	13°♎44'53	
retrograde	-8546 Mar 18 j 16:49	15°♎16'56	
min. Earth dist.	-8546 Jun 06 j 17:42	14°♎13'23	40.32040 AU
opposition	-8546 Jun 10 j 00:41	14°♎09'11	-12°11'59
direct	-8546 Aug 28 j 22:36	13°♎03'27	
evening set	-8546 Nov 26 j 00:09	14°♎30'41	
conjunction	-8546 Dec 05 j 17:49	14°♎46'31	-11°45'36
minimum elong	-8546 Dec 05 j 17:34	14°♎46'30	11°45'40
max. Earth dist.	-8546 Dec 09 j 02:30	14°♎52'00	42.39118 AU
morning rise	-8546 Dec 15 j 12:43	15°♎02'26	
retrograde	-8545 Mar 20 j 04:28	16°♎34'31	
min. Earth dist.	-8545 Jun 08 j 08:16	15°♎31'05	40.55024 AU
opposition	-8545 Jun 11 j 14:08	15°♎26'57	-12°28'47
direct	-8545 Aug 30 j 14:00	14°♎21'24	
evening set	-8545 Nov 27 j 21:41	15°♎48'42	
conjunction	-8545 Dec 07 j 07:03	16°♎03'53	-12°01'33
minimum elong	-8545 Dec 07 j 06:49	16°♎03'52	12°01'39
max. Earth dist.	-8545 Dec 10 j 16:09	16°♎09'22	42.61755 AU
morning rise	-8545 Dec 16 j 17:19	16°♎19'08	
retrograde	-8544 Mar 20 j 13:43	17°♎51'17	
min. Earth dist.	-8544 Jun 08 j 22:00	16°♎47'59	40.77723 AU
opposition	-8544 Jun 12 j 03:07	16°♎43'53	-12°45'02
direct	-8544 Aug 31 j 06:27	15°♎38'32	
evening set	-8544 Nov 28 j 19:19	17°♎05'55	
conjunction	-8544 Dec 07 j 19:50	17°♎20'26	-12°17'00
minimum elong	-8544 Dec 07 j 19:36	17°♎20'25	12°17'06
max. Earth dist.	-8544 Dec 11 j 03:30	17°♎25'47	42.84144 AU
morning rise	-8544 Dec 16 j 21:20	17°♎35'01	
retrograde	-8543 Mar 22 j 02:33	19°♎07'14	
min. Earth dist.	-8543 Jun 10 j 10:28	18°♎04'08	41.00210 AU
opposition	-8543 Jun 13 j 15:51	18°♎00'02	-13°00'44
direct	-8543 Sep 01 j 19:01	16°♎54'51	
evening set	-8543 Nov 30 j 16:52	18°♎22'21	
conjunction	-8543 Dec 09 j 08:31	18°♎36'12	-12°31'55
minimum elong	-8543 Dec 09 j 08:17	18°♎36'11	12°32'03
max. Earth dist.	-8543 Dec 12 j 16:46	18°♎41'34	43.06331 AU
morning rise	-8543 Dec 18 j 00:58	18°♎50'06	
retrograde	-8542 Mar 23 j 14:34	20°♎22'26	
min. Earth dist.	-8542 Jun 12 j 00:12	19°♎19'26	41.22509 AU
opposition	-8542 Jun 15 j 04:08	19°♎15'25	-13°15'54

Attention, astronomical year style is used: The year -8542 in astronomical counting style is the year 8543 BCE in historical counting style.

direct	-8542 Sep 03 j 07:37	18°♎10'26	
evening set	-8542 Dec 02 j 14:33	19°♎38'04	
conjunction	-8542 Dec 10 j 20:52	19°♎51'14	-12°46'20
minimum elong	-8542 Dec 10 j 20:39	19°♎51'13	12°46'26
max. Earth dist.	-8542 Dec 14 j 04:11	19°♎56'31	43.28364 AU
morning rise	-8542 Dec 19 j 03:49	20°♎04'27	
retrograde	-8541 Mar 25 j 04:32	21°♎36'55	
min. Earth dist.	-8541 Jun 13 j 11:38	20°♎34'08	41.44648 AU
opposition	-8541 Jun 16 j 16:12	20°♎30'06	-13°30'31
direct	-8541 Sep 04 j 18:13	19°♎25'18	
evening set	-8541 Dec 04 j 12:04	20°♎53'08	
conjunction	-8541 Dec 12 j 08:46	21°♎05'36	-13°00'13
minimum elong	-8541 Dec 12 j 08:33	21°♎05'36	13°00'22
max. Earth dist.	-8541 Dec 15 j 15:54	21°♎10'50	43.50230 AU
morning rise	-8541 Dec 20 j 06:10	21°♎18'07	
retrograde	-8540 Mar 25 j 17:27	22°♎50'46	
min. Earth dist.	-8540 Jun 14 j 00:45	21°♎48'07	41.66624 AU
opposition	-8540 Jun 17 j 04:10	21°♎44'10	-13°44'36
direct	-8540 Sep 05 j 05:06	20°♎39'34	
evening set	-8540 Dec 05 j 09:57	22°♎07'37	
conjunction	-8540 Dec 12 j 20:46	22°♎19'23	-13°13'37
minimum elong	-8540 Dec 12 j 20:33	22°♎19'22	13°13'45
max. Earth dist.	-8540 Dec 16 j 04:00	22°♎24'36	43.71929 AU
morning rise	-8540 Dec 20 j 08:00	22°♎31'10	
retrograde	-8539 Mar 27 j 02:11	24°♎04'02	
min. Earth dist.	-8539 Jun 15 j 12:28	23°♎01'35	41.88389 AU
opposition	-8539 Jun 18 j 15:35	22°♎57'39	-13°58'09
direct	-8539 Sep 06 j 19:26	21°♎53'16	
evening set	-8539 Dec 07 j 08:06	23°♎21'36	
conjunction	-8539 Dec 14 j 08:27	23°♎32'37	-13°26'32
minimum elong	-8539 Dec 14 j 08:13	23°♎32'36	13°26'41
max. Earth dist.	-8539 Dec 17 j 14:06	23°♎37'43	43.93398 AU
morning rise	-8539 Dec 21 j 09:14	23°♎43'40	
retrograde	-8538 Mar 28 j 12:49	25°♎16'47	
min. Earth dist.	-8538 Jun 17 j 00:18	24°♎14'31	42.09911 AU
opposition	-8538 Jun 20 j 02:57	24°♎10'38	-14°11'13
direct	-8538 Sep 08 j 07:36	23°♎06'28	
evening set	-8538 Dec 09 j 06:24	24°♎35'06	
conjunction	-8538 Dec 15 j 19:56	24°♎45'22	-13°38'58
minimum elong	-8538 Dec 15 j 19:44	24°♎45'21	13°39'08
max. Earth dist.	-8538 Dec 19 j 02:02	24°♎50'28	44.14584 AU
morning rise	-8538 Dec 22 j 09:46	24°♎55'39	
retrograde	-8537 Mar 29 j 23:08	26°♎29'04	
min. Earth dist.	-8537 Jun 18 j 13:04	25°♎26'55	42.31106 AU
opposition	-8537 Jun 21 j 14:03	25°♎23'08	-14°23'47
direct	-8537 Sep 09 j 19:36	24°♎19'10	
evening set	-8537 Dec 11 j 05:20	25°♎48'10	
conjunction	-8537 Dec 17 j 07:20	25°♎57'38	-13°50'57
minimum elong	-8537 Dec 17 j 07:07	25°♎57'37	13°51'09
max. Earth dist.	-8537 Dec 20 j 11:41	26°♎02'36	44.35431 AU
morning rise	-8537 Dec 23 j 09:30	26°♎07'08	
retrograde	-8536 Mar 30 j 11:51	27°♎40'53	
min. Earth dist.	-8536 Jun 18 j 23:53	26°♎38'56	42.51928 AU
opposition	-8536 Jun 22 j 00:53	26°♎35'10	-14°35'54
direct	-8536 Sep 10 j 05:04	25°♎31'24	
evening set	-8536 Dec 12 j 04:45	27°♎00'47	
conjunction	-8536 Dec 17 j 18:33	27°♎09'26	-14°02'30
minimum elong	-8536 Dec 17 j 18:22	27°♎09'25	14°02'42
max. Earth dist.	-8536 Dec 20 j 22:10	27°♎14'19	44.55865 AU
morning rise	-8536 Dec 23 j 08:33	27°♎18'05	
retrograde	-8535 Mar 31 j 23:51	28°♎52'13	
min. Earth dist.	-8535 Jun 20 j 12:41	27°♎50'22	42.72318 AU
opposition	-8535 Jun 23 j 11:40	27°♎46'42	-14°47'34
direct	-8535 Sep 11 j 15:19	26°♎43'07	
evening set	-8535 Dec 14 j 05:05	28°♎12'57	
conjunction	-8535 Dec 19 j 05:45	28°♎20'44	-14°13'38
minimum elong	-8535 Dec 19 j 05:32	28°♎20'43	14°13'50
max. Earth dist.	-8535 Dec 22 j 08:27	28°♎25'32	44.75866 AU
morning rise	-8535 Dec 24 j 06:22	28°♎28'29	
	-8534 Mar 17 j 02:55	0°♏	
retrograde	-8534 Apr 02 j 09:14	0°♏03'02	
	-8534 Apr 18 j 17:14	30°℞♎	
min. Earth dist.	-8534 Jun 21 j 23:35	29°♎01'20	42.92250 AU
opposition	-8534 Jun 24 j 21:56	28°♎57'43	-14°58'47
direct	-8534 Sep 13 j 03:23	27°♎54'17	
evening set	-8534 Dec 16 j 06:20	29°♎24'40	
conjunction	-8534 Dec 20 j 16:28	29°♎31'28	-14°24'21
minimum elong	-8534 Dec 20 j 16:18	29°♎31'28	14°24'33
max. Earth dist.	-8534 Dec 23 j 17:24	29°♎36'09	44.95425 AU
morning rise	-8534 Dec 25 j 02:36	29°♎38'17	
	-8533 Jan 08 j 11:07	0°♏	
retrograde	-8533 Apr 03 j 19:15	1°♏13'20	
min. Earth dist.	-8533 Jun 23 j 10:49	0°♏11'44	43.11772 AU
opposition	-8533 Jun 26 j 08:12	0°♏08'10	-15°09'34
	-8533 Jul 02 j 23:53	30°℞♎	
direct	-8533 Sep 14 j 14:20	29°♎04'53	
	-8533 Nov 24 j 01:34	0°♏	
evening set	-8533 Dec 18 j 09:08	0°♏35'55	
conjunction	-8533 Dec 22 j 02:59	0°♏41'39	-14°34'38
minimum elong	-8533 Dec 22 j 02:47	0°♏41'38	14°34'51
morning rise	-8533 Dec 25 j 20:41	0°♏47'23	
max. Earth dist.	-8533 Dec 25 j 04:04	0°♏46'19	45.14597 AU
retrograde	-8532 Apr 04 j 02:13	2°♏23'04	
min. Earth dist.	-8532 Jun 23 j 22:12	1°♏21'33	43.30916 AU
opposition	-8532 Jun 26 j 18:09	1°♏18'03	-15°19'55
direct	-8532 Sep 15 j 03:14	0°♏14'56	
evening set	-8532 Dec 19 j 15:06	1°♏46'48	
conjunction	-8532 Dec 22 j 13:21	1°♏51'16	-14°44'30
minimum elong	-8532 Dec 22 j 13:11	1°♏51'16	14°44'44
morning rise	-8532 Dec 25 j 11:27	1°♏55'44	
max. Earth dist.	-8532 Dec 25 j 12:40	1°♏55'49	45.33435 AU
retrograde	-8531 Apr 05 j 13:30	3°♏32'14	
min. Earth dist.	-8531 Jun 25 j 07:43	2°♏30'52	43.49756 AU
opposition	-8531 Jun 28 j 03:41	2°♏27'24	-15°29'48
direct	-8531 Sep 16 j 11:55	1°♏24'24	
evening set	-8531 Dec 22 j 03:48	2°♏57'35	
conjunction	-8531 Dec 23 j 23:32	3°♏00'21	-14°53'55
minimum elong	-8531 Dec 23 j 23:21	3°♏00'20	14°54'10
morning rise	-8531 Dec 25 j 18:58	3°♏03'06	
max. Earth dist.	-8531 Dec 26 j 22:44	3°♏04'51	45.51984 AU
retrograde	-8530 Apr 07 j 01:17	4°♏40'53	
min. Earth dist.	-8530 Jun 26 j 18:58	3°♏39'35	43.68331 AU
opposition	-8530 Jun 29 j 13:13	3°♏36'13	-15°39'15
direct	-8530 Sep 17 j 19:20	2°♏33'22	
conjunction	-8530 Dec 25 j 09:25	4°♏08'56	-15°02'55
minimum elong	-8530 Dec 25 j 09:15	4°♏08'56	15°03'11
max. Earth dist.	-8530 Dec 28 j 08:03	4°♏13'23	45.70299 AU
retrograde	-8529 Apr 08 j 10:01	5°♏49'03	
min. Earth dist.	-8529 Jun 28 j 03:58	4°♏47'55	43.86662 AU
opposition	-8529 Jun 30 j 22:24	4°♏44'33	-15°48'15
direct	-8529 Sep 19 j 05:28	3°♏41'51	

Attention, astronomical year style is used: The year -8529 in astronomical counting style is the year 8530 BCE in historical counting style.

conjunction	-8529 Dec 26 j 19:06	5°♏17'04	-15°11'30
minimum elong	-8529 Dec 26 j 18:56	5°♏17'03	15°11'45
max. Earth dist.	-8529 Dec 29 j 16:24	5°♏21'25	45.88382 AU
retrograde	-8528 Apr 08 j 18:49	6°♏56'47	
min. Earth dist.	-8528 Jun 28 j 14:03	5°♏55'46	44.04771 AU
opposition	-8528 Jul 01 j 07:31	5°♏52'28	-15°56'48
direct	-8528 Sep 19 j 15:25	4°♏49'56	
conjunction	-8528 Dec 27 j 04:48	6°♏24'48	-15°19'39
minimum elong	-8528 Dec 27 j 04:39	6°♏24'47	15°19'56
max. Earth dist.	-8528 Dec 30 j 02:27	6°♏29'10	46.06236 AU
retrograde	-8527 Apr 10 j 01:04	8°♏04'08	
min. Earth dist.	-8527 Jun 30 j 00:06	7°♏03'15	44.22609 AU
opposition	-8527 Jul 02 j 16:23	7°♏00'00	-16°04'56
direct	-8527 Sep 21 j 03:29	5°♏57'38	
conjunction	-8527 Dec 28 j 14:16	7°♏32'10	-15°27'23
minimum elong	-8527 Dec 28 j 14:07	7°♏32'09	15°27'40
max. Earth dist.	-8527 Dec 31 j 10:02	7°♏36'24	46.23811 AU
retrograde	-8526 Apr 11 j 10:25	9°♏11'09	
min. Earth dist.	-8526 Jul 01 j 08:49	8°♏10'26	44.40150 AU
opposition	-8526 Jul 04 j 00:59	8°♏07'12	-16°12'38
direct	-8526 Sep 22 j 12:04	7°♏05'00	
conjunction	-8526 Dec 29 j 23:39	8°♏39'12	-15°34'45
minimum elong	-8526 Dec 29 j 23:30	8°♏39'12	15°35'03
max. Earth dist.	-8525 Jan 01 j 19:09	8°♏43'24	46.41054 AU
retrograde	-8525 Apr 12 j 20:20	10°♏17'50	
min. Earth dist.	-8525 Jul 02 j 19:31	9°♏17'12	44.57326 AU
opposition	-8525 Jul 05 j 09:35	9°♏14'04	-16°19'57
direct	-8525 Sep 23 j 20:10	8°♏12'02	
conjunction	-8525 Dec 31 j 08:52	9°♏45'56	-15°41'44
minimum elong	-8525 Dec 31 j 08:45	9°♏45'55	15°42'02
max. Earth dist.	-8524 Jan 03 j 03:04	9°♏50'02	46.57916 AU
retrograde	-8524 Apr 13 j 07:33	11°♏24'12	
min. Earth dist.	-8524 Jul 03 j 04:15	10°♏23'42	44.74070 AU
opposition	-8524 Jul 05 j 17:55	10°♏20'37	-16°26'53
direct	-8524 Sep 24 j 02:53	9°♏18'43	
conjunction	-8524 Dec 31 j 18:07	10°♏52'19	-15°48'22
minimum elong	-8524 Dec 31 j 17:59	10°♏52'18	15°48'41
max. Earth dist.	-8523 Jan 03 j 10:31	10°♏56'17	46.74308 AU
retrograde	-8523 Apr 14 j 17:13	12°♏30'13	
min. Earth dist.	-8523 Jul 04 j 14:24	11°♏29'47	44.90332 AU
opposition	-8523 Jul 07 j 02:10	11°♏26'48	-16°33'28
direct	-8523 Sep 25 j 10:25	10°♏25'01	
conjunction	-8522 Jan 02 j 03:21	11°♏58'18	-15°54'39
minimum elong	-8522 Jan 02 j 03:15	11°♏58'18	15°54'57
max. Earth dist.	-8522 Jan 04 j 19:12	12°♏02'14	46.90210 AU
retrograde	-8522 Apr 15 j 22:13	13°♏35'51	
min. Earth dist.	-8522 Jul 05 j 23:49	12°♏35'29	45.06072 AU
opposition	-8522 Jul 08 j 10:14	12°♏32'33	-16°39'42
direct	-8522 Sep 26 j 22:09	11°♏30'54	
conjunction	-8521 Jan 03 j 12:06	13°♏03'51	-16°00'36
minimum elong	-8521 Jan 03 j 11:58	13°♏03'51	16°00'56
max. Earth dist.	-8521 Jan 06 j 01:29	13°♏07'37	47.05606 AU
retrograde	-8521 Apr 17 j 05:14	14°♏41'02	
min. Earth dist.	-8521 Jul 07 j 08:28	13°♏40'45	45.21328 AU
opposition	-8521 Jul 09 j 18:10	13°♏37'52	-16°45'34
direct	-8521 Sep 28 j 07:46	12°♏36'19	
conjunction	-8520 Jan 04 j 20:52	14°♏08'57	-16°06'12
minimum elong	-8520 Jan 04 j 20:47	14°♏08'56	16°06'32
max. Earth dist.	-8520 Jan 07 j 09:57	14°♏12'41	47.20536 AU
	-8520 Feb 10 j 13:18	15°♏	
retrograde	-8520 Apr 17 j 13:02	15°♏45'47	
	-8520 Jun 25 j 09:57	15°℞♏	
min. Earth dist.	-8520 Jul 07 j 18:20	14°♏45'29	45.36137 AU
opposition	-8520 Jul 10 j 01:53	14°♏42'43	-16°51'05
direct	-8520 Sep 28 j 16:23	13°♏41'15	
	-8520 Dec 26 j 21:39	15°♏	
conjunction	-8519 Jan 05 j 05:30	15°♏13'34	-16°11'27
minimum elong	-8519 Jan 05 j 05:23	15°♏13'34	16°11'48
max. Earth dist.	-8519 Jan 07 j 17:06	15°♏17'12	47.35066 AU
retrograde	-8519 Apr 18 j 21:50	16°♏50'03	
min. Earth dist.	-8519 Jul 09 j 01:51	15°♏49'52	45.50561 AU
opposition	-8519 Jul 11 j 09:20	15°♏47'07	-16°56'15
	-8519 Aug 25 j 08:14	15°℞♏	
direct	-8519 Sep 29 j 23:19	14°♏45'43	
	-8519 Nov 04 j 05:36	15°♏	
conjunction	-8518 Jan 06 j 13:52	16°♏17'45	-16°16'22
minimum elong	-8518 Jan 06 j 13:47	16°♏17'45	16°16'43
max. Earth dist.	-8518 Jan 09 j 00:07	16°♏21'17	47.49228 AU
retrograde	-8518 Apr 20 j 06:41	17°♏53'53	
min. Earth dist.	-8518 Jul 10 j 10:50	16°♏53'44	45.64656 AU
opposition	-8518 Jul 12 j 16:41	16°♏51'04	-17°01'02
direct	-8518 Oct 01 j 06:09	15°♏49'47	
conjunction	-8517 Jan 07 j 22:11	17°♏21'32	-16°20'54
minimum elong	-8517 Jan 07 j 22:05	17°♏21'31	16°21'16
max. Earth dist.	-8517 Jan 10 j 08:22	17°♏25'03	47.63098 AU
retrograde	-8517 Apr 21 j 11:56	18°♏57'20	
min. Earth dist.	-8517 Jul 11 j 18:43	17°♏57'17	45.78452 AU
opposition	-8517 Jul 13 j 23:51	17°♏54'39	-17°05'27
direct	-8517 Oct 02 j 15:51	16°♏53'28	
conjunction	-8516 Jan 09 j 06:07	18°♏24'57	-16°25'05
minimum elong	-8516 Jan 09 j 06:03	18°♏24'57	16°25'27
max. Earth dist.	-8516 Jan 11 j 14:27	18°♏28'21	47.76690 AU
retrograde	-8516 Apr 21 j 19:18	20°♏00'29	
min. Earth dist.	-8516 Jul 12 j 02:15	19°♏00'32	45.91978 AU
opposition	-8516 Jul 14 j 06:58	18°♏57'55	-17°09'30
direct	-8516 Oct 02 j 23:24	17°♏56'51	
conjunction	-8515 Jan 09 j 14:14	19°♏28'06	-16°28'55
minimum elong	-8515 Jan 09 j 14:09	19°♏28'06	16°29'17
max. Earth dist.	-8515 Jan 11 j 22:27	19°♏31'29	47.90002 AU
retrograde	-8515 Apr 23 j 01:36	21°♏03'21	
min. Earth dist.	-8515 Jul 13 j 10:56	20°♏03'28	46.05204 AU
opposition	-8515 Jul 15 j 13:51	20°♏00'57	-17°13'11
direct	-8515 Oct 04 j 08:01	19°♏00'00	
conjunction	-8514 Jan 10 j 22:11	20°♏31'02	-16°32'24
minimum elong	-8514 Jan 10 j 22:08	20°♏31'02	16°32'48
max. Earth dist.	-8514 Jan 13 j 04:58	20°♏34'19	48.03023 AU
retrograde	-8514 Apr 24 j 11:22	22°♏06'01	
min. Earth dist.	-8514 Jul 14 j 17:50	21°♏06'16	46.18109 AU
opposition	-8514 Jul 16 j 20:36	21°♏03'46	-17°16'31
direct	-8514 Oct 05 j 12:57	20°♏02'57	
conjunction	-8513 Jan 12 j 05:49	21°♏33'46	-16°35'34
minimum elong	-8513 Jan 12 j 05:46	21°♏33'46	16°35'57
max. Earth dist.	-8513 Jan 14 j 11:22	21°♏36'58	48.15689 AU
retrograde	-8513 Apr 25 j 21:17	23°♏08'30	
min. Earth dist.	-8513 Jul 16 j 02:33	22°♏08'48	46.30642 AU
opposition	-8513 Jul 18 j 03:23	22°♏06'25	-17°19'31
direct	-8513 Oct 06 j 16:59	21°♏05'43	
conjunction	-8512 Jan 13 j 13:42	22°♏36'20	-16°38'24

Attention, astronomical year style is used: The year -8512 in astronomical counting style is the year 8513 BCE in historical counting style.

minimum elong	-8512 Jan	13 j 13:39	22°♏36'20	16°38'49
max. Earth dist.	-8512 Jan	15 j 18:41	22°♏39'30	48.27963 AU
retrograde	-8512 Apr	26 j 02:22	24°♏10'49	
min. Earth dist.	-8512 Jul	16 j 10:06	23°♏11'12	46.42729 AU
opposition	-8512 Jul	18 j 09:51	23°♏08'52	-17°22'12
direct	-8512 Oct	07 j 02:10	22°♏08'17	
conjunction	-8511 Jan	13 j 21:26	23°♏38'43	-16°40'56
minimum elong	-8511 Jan	13 j 21:24	23°♏38'43	16°41'20
max. Earth dist.	-8511 Jan	15 j 23:48	23°♏41'43	48.39768 AU
retrograde	-8511 Apr	27 j 07:53	25°♏12'56	
min. Earth dist.	-8511 Jul	17 j 17:49	24°♏13'24	46.54328 AU
opposition	-8511 Jul	19 j 16:24	24°♏11'08	-17°24'35
direct	-8511 Oct	08 j 10:42	23°♏10'39	
conjunction	-8510 Jan	15 j 05:09	24°♏40'52	-16°43'11
minimum elong	-8510 Jan	15 j 05:06	24°♏40'52	16°43'36
max. Earth dist.	-8510 Jan	17 j 06:58	24°♏43'50	48.51057 AU
retrograde	-8510 Apr	28 j 13:02	26°♏14'51	
min. Earth dist.	-8510 Jul	19 j 02:26	25°♏15'19	46.65393 AU
opposition	-8510 Jul	20 j 22:46	25°♏13'08	-17°26'40
direct	-8510 Oct	09 j 19:34	24°♏12'44	
conjunction	-8509 Jan	16 j 12:39	25°♏42'44	-16°45'09
minimum elong	-8509 Jan	16 j 12:38	25°♏42'44	16°45'34
max. Earth dist.	-8509 Jan	18 j 12:23	25°♏45'34	48.61844 AU
retrograde	-8509 Apr	29 j 20:52	27°♏16'27	
min. Earth dist.	-8509 Jul	20 j 08:56	26°♏17'00	46.75958 AU
opposition	-8509 Jul	22 j 04:57	26°♏14'51	-17°28'28
direct	-8509 Oct	11 j 01:29	25°♏14'31	
conjunction	-8508 Jan	17 j 19:56	26°♏44'17	-16°46'49
minimum elong	-8508 Jan	17 j 19:53	26°♏44'17	16°47'15
max. Earth dist.	-8508 Jan	19 j 18:08	26°♏47'01	48.72140 AU
retrograde	-8508 Apr	30 j 05:36	28°♏17'44	
min. Earth dist.	-8508 Jul	20 j 17:18	27°♏18'15	46.86063 AU
opposition	-8508 Jul	22 j 11:08	27°♏16'13	-17°29'57
direct	-8508 Oct	11 j 06:15	26°♏15'55	
conjunction	-8507 Jan	18 j 03:20	27°♏45'29	-16°48'12
minimum elong	-8507 Jan	18 j 03:20	27°♏45'29	16°48'38
max. Earth dist.	-8507 Jan	20 j 01:01	27°♏48'10	48.82016 AU
retrograde	-8507 May	01 j 11:42	29°♏18'39	
min. Earth dist.	-8507 Jul	21 j 23:52	28°♏19'13	46.95759 AU
opposition	-8507 Jul	23 j 16:54	28°♏17'13	-17°31'09
direct	-8507 Oct	12 j 12:53	27°♏16'58	
conjunction	-8506 Jan	19 j 10:26	28°♏46'20	-16°49'16
minimum elong	-8506 Jan	19 j 10:24	28°♏46'20	16°49'42
max. Earth dist.	-8506 Jan	21 j 05:55	28°♏48'53	48.91519 AU
	-8506 Mar	20 j 17:02	0°♐	
retrograde	-8506 May	02 j 18:01	0°♐19'14	
	-8506 Jun	15 j 00:35	30°℞♏	
min. Earth dist.	-8506 Jul	23 j 06:35	29°♏19'50	47.05123 AU
opposition	-8506 Jul	24 j 22:46	29°♏17'53	-17°32'00
direct	-8506 Oct	13 j 19:23	28°♏17'41	
conjunction	-8505 Jan	20 j 17:21	29°♏46'51	-16°50'02
minimum elong	-8505 Jan	20 j 17:22	29°♏46'51	16°50'28
max. Earth dist.	-8505 Jan	22 j 12:51	29°♏49'24	49.00708 AU
	-8505 Jan	30 j 02:38	0°♐	
retrograde	-8505 May	03 j 20:25	1°♐19'31	
min. Earth dist.	-8505 Jul	24 j 13:54	0°♐20'07	47.14177 AU
opposition	-8505 Jul	26 j 04:32	0°♐18'14	-17°32'33
	-8505 Aug	11 j 02:01	30°℞♏	
direct	-8505 Oct	15 j 04:48	29°♏18'06	
	-8505 Dec	17 j 16:21	0°♐	
conjunction	-8504 Jan	22 j 00:17	0°♐47'05	-16°50'28
minimum elong	-8504 Jan	22 j 00:16	0°♐47'05	16°50'55
max. Earth dist.	-8504 Jan	23 j 18:11	0°♐49'32	49.09625 AU
retrograde	-8504 May	04 j 03:06	2°♐19'32	
min. Earth dist.	-8504 Jul	24 j 19:27	1°♐20'13	47.22959 AU
opposition	-8504 Jul	26 j 10:02	1°♐18'20	-17°32'46
direct	-8504 Oct	15 j 10:47	0°♐18'16	
conjunction	-8503 Jan	22 j 07:10	1°♐47'05	-16°50'37
minimum elong	-8503 Jan	22 j 07:11	1°♐47'05	16°51'04
max. Earth dist.	-8503 Jan	24 j 00:03	1°♐49'28	49.18260 AU
retrograde	-8503 May	05 j 12:13	3°♐19'19	
min. Earth dist.	-8503 Jul	26 j 02:59	2°♐20'01	47.31455 AU
opposition	-8503 Jul	27 j 15:42	2°♐18'14	-17°32'41
direct	-8503 Oct	16 j 13:59	1°♐18'14	
conjunction	-8502 Jan	23 j 14:00	2°♐46'54	-16°50'26
minimum elong	-8502 Jan	23 j 14:00	2°♐46'54	16°50'54
max. Earth dist.	-8502 Jan	25 j 06:23	2°♐49'15	49.26610 AU
retrograde	-8502 May	06 j 17:38	4°♐18'56	
min. Earth dist.	-8502 Jul	27 j 08:49	3°♐19'43	47.39629 AU
opposition	-8502 Jul	28 j 21:02	3°♐17'58	-17°32'16
direct	-8502 Oct	17 j 20:19	2°♐18'03	
conjunction	-8501 Jan	24 j 20:39	3°♐46'35	-16°49'59
minimum elong	-8501 Jan	24 j 20:41	3°♐46'35	16°50'27
max. Earth dist.	-8501 Jan	26 j 10:52	3°♐48'48	49.34626 AU
retrograde	-8501 May	07 j 23:37	5°♐18'26	
min. Earth dist.	-8501 Jul	28 j 15:28	4°♐19'16	47.47453 AU
opposition	-8501 Jul	30 j 02:26	4°♐17'35	-17°31'34
direct	-8501 Oct	19 j 02:11	3°♐17'45	
conjunction	-8500 Jan	26 j 03:25	4°♐46'10	-16°49'14
minimum elong	-8500 Jan	26 j 03:27	4°♐46'10	16°49'42
max. Earth dist.	-8500 Jan	27 j 17:20	4°♐48'22	49.42250 AU
retrograde	-8500 May	08 j 03:21	6°♐17'51	
min. Earth dist.	-8500 Jul	28 j 22:50	5°♐18'42	47.54833 AU
opposition	-8500 Jul	30 j 07:49	5°♐17'06	-17°30'36
direct	-8500 Oct	19 j 10:30	4°♐17'21	
conjunction	-8499 Jan	26 j 10:13	5°♐45'39	-16°48'14
minimum elong	-8499 Jan	26 j 10:15	5°♐45'39	16°48'43
max. Earth dist.	-8499 Jan	27 j 21:50	5°♐47'43	49.49415 AU
retrograde	-8499 May	09 j 09:47	7°♐17'10	
min. Earth dist.	-8499 Jul	30 j 04:35	6°♐18'05	47.61724 AU
opposition	-8499 Jul	31 j 12:58	6°♐16'32	-17°29'21
direct	-8499 Oct	20 j 16:02	5°♐16'50	
conjunction	-8498 Jan	27 j 16:57	6°♐45'01	-16°46'58
minimum elong	-8498 Jan	27 j 17:00	6°♐45'01	16°47'26
max. Earth dist.	-8498 Jan	29 j 02:53	6°♐46'59	49.56058 AU
retrograde	-8498 May	10 j 17:27	8°♐16'22	
opposition	-8498 Aug	01 j 18:20	7°♐15'49	-17°27'51
min. Earth dist.	-8498 Jul	31 j 12:21	7°♐17'16	47.68084 AU
direct	-8498 Oct	21 j 20:15	6°♐16'11	
conjunction	-8497 Jan	28 j 23:30	7°♐44'14	-16°45'28
minimum elong	-8497 Jan	28 j 23:32	7°♐44'14	16°45'57
max. Earth dist.	-8497 Jan	30 j 08:29	7°♐46'08	49.62186 AU
retrograde	-8497 May	11 j 23:57	9°♐15'24	
opposition	-8497 Aug	02 j 23:27	8°♐14'56	-17°26'06
min. Earth dist.	-8497 Aug	01 j 18:22	8°♐16'20	47.73914 AU
direct	-8497 Oct	23 j 01:18	7°♐15'20	
conjunction	-8496 Jan	30 j 05:59	8°♐43'17	-16°43'42
minimum elong	-8496 Jan	30 j 06:03	8°♐43'17	16°44'11
max. Earth dist.	-8496 Jan	31 j 12:25	8°♐45'02	49.67804 AU

Attention, astronomical year style is used: The year -8496 in astronomical counting style is the year 8497 BCE in historical counting style.

retrograde	-8496 May 12 j 06:19	10°↗14'16	
min. Earth dist.	-8496 Aug 02 j 00:47	9°↗15'11	47.79270 AU
opposition	-8496 Aug 03 j 04:27	9°↗13'51	-17°24'05
direct	-8496 Oct 23 j 06:32	8°↗14'17	
conjunction	-8495 Jan 30 j 12:34	9°↗42'06	-16°41'41
minimum elong	-8495 Jan 30 j 12:37	9°↗42'06	16°42'11
max. Earth dist.	-8495 Jan 31 j 18:31	9°↗43'50	49.72967 AU
retrograde	-8495 May 13 j 08:25	11°↗12'55	
min. Earth dist.	-8495 Aug 03 j 07:33	10°↗13'49	47.84184 AU
opposition	-8495 Aug 04 j 09:24	10°↗12'35	-17°21'49
direct	-8495 Oct 24 j 14:57	9°↗13'02	
conjunction	-8494 Jan 31 j 18:51	10°↗40'44	-16°39'24
minimum elong	-8494 Jan 31 j 18:56	10°↗40'44	16°39'54
max. Earth dist.	-8494 Feb 01 j 22:56	10°↗42'21	49.77735 AU
retrograde	-8494 May 14 j 13:21	12°↗11'23	
opposition	-8494 Aug 05 j 14:11	11°↗11'06	-17°19'15
min. Earth dist.	-8494 Aug 04 j 12:35	11°↗12'20	47.88730 AU
direct	-8494 Oct 25 j 21:16	10°↗11'35	
conjunction	-8493 Feb 02 j 01:04	11°↗39'11	-16°36'50
minimum elong	-8493 Feb 02 j 01:07	11°↗39'11	16°37'20
max. Earth dist.	-8493 Feb 03 j 04:03	11°↗40'44	49.82152 AU
retrograde	-8493 May 15 j 21:40	13°↗09'42	
opposition	-8493 Aug 06 j 19:01	12°↗09'28	-17°16'24
min. Earth dist.	-8493 Aug 05 j 19:22	12°↗10'36	47.92952 AU
direct	-8493 Oct 27 j 00:04	11°↗09'59	
conjunction	-8492 Feb 03 j 07:18	12°↗37'29	-16°34'00
minimum elong	-8492 Feb 03 j 07:23	12°↗37'30	16°34'30
max. Earth dist.	-8492 Feb 04 j 09:44	12°↗39'00	49.86275 AU
retrograde	-8492 May 16 j 03:27	14°↗07'52	
opposition	-8492 Aug 06 j 23:43	13°↗07'43	-17°13'16
min. Earth dist.	-8492 Aug 06 j 00:22	13°↗08'50	47.96864 AU
direct	-8492 Oct 27 j 04:23	12°↗08'15	
conjunction	-8491 Feb 03 j 13:28	13°↗35'42	-16°30'53
minimum elong	-8491 Feb 03 j 13:32	13°↗35'42	16°31'22
max. Earth dist.	-8491 Feb 04 j 13:44	13°↗37'05	49.90094 AU
retrograde	-8491 May 17 j 09:22	15°↗05'56	
min. Earth dist.	-8491 Aug 07 j 06:17	14°↗06'55	48.00481 AU
opposition	-8491 Aug 08 j 04:23	14°↗05'51	-17°09'51
direct	-8491 Oct 28 j 09:11	13°↗06'27	
conjunction	-8490 Feb 04 j 19:43	14°↗33'50	-16°27'29
minimum elong	-8490 Feb 04 j 19:49	14°↗33'50	16°28'00
max. Earth dist.	-8490 Feb 05 j 19:54	14°↗35'13	49.93606 AU
retrograde	-8490 May 18 j 11:31	16°↗03'57	
opposition	-8490 Aug 09 j 09:05	15°↗03'58	-17°06'09
min. Earth dist.	-8490 Aug 08 j 12:32	15°↗04'57	48.03761 AU
direct	-8490 Oct 29 j 17:28	14°↗04'36	
conjunction	-8489 Feb 06 j 01:40	15°↗31'56	-16°23'49
minimum elong	-8489 Feb 06 j 01:45	15°↗31'56	16°24'20
max. Earth dist.	-8489 Feb 06 j 23:52	15°↗33'12	49.96781 AU
retrograde	-8489 May 19 j 16:28	17°↗01'58	
opposition	-8489 Aug 10 j 13:40	16°↗02'03	-17°02'11
min. Earth dist.	-8489 Aug 09 j 17:29	16°↗03'01	48.06673 AU
direct	-8489 Oct 30 j 23:06	15°↗02'44	
conjunction	-8488 Feb 07 j 07:52	16°↗30'01	-16°19'54
minimum elong	-8488 Feb 07 j 07:58	16°↗30'02	16°20'26
max. Earth dist.	-8488 Feb 08 j 04:42	16°↗31'12	49.99540 AU
retrograde	-8488 May 19 j 23:09	17°↗59'58	
opposition	-8488 Aug 10 j 18:15	17°↗00'08	-16°57'58
min. Earth dist.	-8488 Aug 10 j 00:36	17°↗00'58	48.09140 AU
direct	-8488 Oct 31 j 03:24	16°↗00'51	
conjunction	-8487 Feb 07 j 14:14	17°↗28'06	-16°15'45
minimum elong	-8487 Feb 07 j 14:21	17°↗28'06	16°16'16
max. Earth dist.	-8487 Feb 08 j 09:58	17°↗29'13	50.01835 AU
retrograde	-8487 May 21 j 06:27	18°↗57'56	
opposition	-8487 Aug 11 j 22:49	17°↗58'10	-16°53'31
min. Earth dist.	-8487 Aug 11 j 06:00	17°↗58'58	48.11093 AU
direct	-8487 Nov 01 j 07:00	16°↗58'54	
conjunction	-8486 Feb 08 j 20:19	18°↗26'06	-16°11'22
minimum elong	-8486 Feb 08 j 20:25	18°↗26'07	16°11'54
max. Earth dist.	-8486 Feb 09 j 13:14	18°↗27'04	50.03590 AU
retrograde	-8486 May 22 j 13:49	19°↗55'50	
opposition	-8486 Aug 13 j 03:25	18°↗56'07	-16°48'49
min. Earth dist.	-8486 Aug 12 j 12:22	18°↗56'50	48.12505 AU
direct	-8486 Nov 02 j 10:22	17°↗56'51	
conjunction	-8485 Feb 10 j 02:34	19°↗24'01	-16°06'45
minimum elong	-8485 Feb 10 j 02:41	19°↗24'01	16°07'17
max. Earth dist.	-8485 Feb 10 j 18:45	19°↗24'56	50.04802 AU
retrograde	-8485 May 23 j 16:27	20°↗53'38	
opposition	-8485 Aug 14 j 07:56	19°↗53'56	-16°43'54
min. Earth dist.	-8485 Aug 13 j 18:46	19°↗54'33	48.13364 AU
direct	-8485 Nov 03 j 17:43	18°↗54'40	
conjunction	-8484 Feb 11 j 08:38	20°↗21'46	-16°01'55
minimum elong	-8484 Feb 11 j 08:44	20°↗21'46	16°02'27
max. Earth dist.	-8484 Feb 11 j 22:28	20°↗22'33	50.05494 AU
retrograde	-8484 May 23 j 19:32	21°↗51'16	
opposition	-8484 Aug 14 j 12:21	20°↗51'35	-16°38'44
min. Earth dist.	-8484 Aug 13 j 23:55	20°↗52'11	48.13719 AU
direct	-8484 Nov 04 j 00:54	19°↗52'18	
conjunction	-8483 Feb 11 j 14:45	21°↗19'20	-15°56'50
minimum elong	-8483 Feb 11 j 14:53	21°↗19'20	15°57'22
max. Earth dist.	-8483 Feb 12 j 03:06	21°↗20'02	50.05691 AU
retrograde	-8483 May 25 j 01:26	22°↗48'44	
opposition	-8483 Aug 15 j 16:44	21°↗49'04	-16°33'20
min. Earth dist.	-8483 Aug 15 j 06:34	21°↗49'33	48.13616 AU
direct	-8483 Nov 05 j 05:35	20°↗49'45	
conjunction	-8482 Feb 12 j 20:47	22°↗16'44	-15°51'30
minimum elong	-8482 Feb 12 j 20:54	22°↗16'45	15°52'03
max. Earth dist.	-8482 Feb 13 j 08:18	22°↗17'23	50.05480 AU
retrograde	-8482 May 26 j 07:16	23°↗46'02	
opposition	-8482 Aug 16 j 21:02	22°↗46'23	-16°27'40
min. Earth dist.	-8482 Aug 16 j 11:14	22°↗46'51	48.13121 AU
direct	-8482 Nov 06 j 09:17	21°↗47'02	
conjunction	-8481 Feb 14 j 02:28	23°↗13'59	-15°45'56
minimum elong	-8481 Feb 14 j 02:37	23°↗14'00	15°46'28
max. Earth dist.	-8481 Feb 14 j 11:55	23°↗14'32	50.04904 AU
retrograde	-8481 May 27 j 13:27	24°↗43'12	
opposition	-8481 Aug 18 j 01:24	23°↗43'34	-16°21'44
min. Earth dist.	-8481 Aug 17 j 17:00	23°↗43'58	48.12297 AU
direct	-8481 Nov 07 j 13:12	22°↗44'12	
conjunction	-8480 Feb 15 j 08:28	24°↗11'09	-15°40'05
minimum elong	-8480 Feb 15 j 08:35	24°↗11'09	15°40'37
max. Earth dist.	-8480 Feb 15 j 17:46	24°↗11'41	50.04015 AU
retrograde	-8480 May 27 j 15:45	25°↗40'17	
opposition	-8480 Aug 18 j 05:38	24°↗40'40	-16°15'31
min. Earth dist.	-8480 Aug 17 j 22:32	24°↗41'00	48.11159 AU
direct	-8480 Nov 07 j 20:38	23°↗41'19	
conjunction	-8479 Feb 15 j 14:22	25°↗08'16	-15°33'58

Attention, astronomical year style is used: The year -8479 in astronomical counting style is the year 8480 BCE in historical counting style.

minimum elong	-8479 Feb 15 j 14:31	25°♐08'16	15°34'31
max. Earth dist.	-8479 Feb 15 j 21:45	25°♐08'41	50.02842 AU
retrograde	-8479 May 28 j 20:09	26°♐37'21	
opposition	-8479 Aug 19 j 09:53	25°♐37'46	-16°09'02
min. Earth dist.	-8479 Aug 19 j 03:01	25°♐38'06	48.09737 AU
direct	-8479 Nov 09 j 02:08	24°♐38'25	
conjunction	-8478 Feb 16 j 20:08	26°♐05'23	-15°27'36
minimum elong	-8478 Feb 16 j 20:16	26°♐05'23	15°28'08
max. Earth dist.	-8478 Feb 17 j 02:29	26°♐05'45	50.01365 AU
retrograde	-8478 May 30 j 01:52	27°♐34'28	
opposition	-8478 Aug 20 j 14:12	26°♐34'56	-16°02'17
min. Earth dist.	-8478 Aug 20 j 09:23	26°♐35'09	48.08006 AU
direct	-8478 Nov 10 j 06:27	25°♐35'35	
conjunction	-8477 Feb 18 j 02:03	27°♐02'35	-15°20'58
minimum elong	-8477 Feb 18 j 02:12	27°♐02'35	15°21'32
max. Earth dist.	-8477 Feb 18 j 07:46	27°♐02'54	49.99583 AU
retrograde	-8477 May 31 j 08:35	28°♐31'39	
opposition	-8477 Aug 21 j 18:20	27°♐32'10	-15°55'16
min. Earth dist.	-8477 Aug 21 j 13:59	27°♐32'22	48.05928 AU
direct	-8477 Nov 11 j 09:39	26°♐32'50	
conjunction	-8476 Feb 19 j 07:55	27°♐59'54	-15°14'05
minimum elong	-8476 Feb 19 j 08:04	27°♐59'54	15°14'38
max. Earth dist.	-8476 Feb 19 j 11:08	28°♐00'05	49.97421 AU
retrograde	-8476 May 31 j 16:35	29°♐28'57	
opposition	-8476 Aug 21 j 22:38	28°♐29'31	-15°48'01
min. Earth dist.	-8476 Aug 21 j 19:58	28°♐29'39	48.03445 AU
direct	-8476 Nov 11 j 11:51	27°♐30'12	
conjunction	-8475 Feb 19 j 14:04	28°♐57'19	-15°06'58
minimum elong	-8475 Feb 19 j 14:14	28°♐57'20	15°07'31
max. Earth dist.	-8475 Feb 19 j 16:43	28°♐57'28	49.94811 AU
	-8475 Apr 11 j 15:18	0°♑	
retrograde	-8475 Jun 01 j 20:23	0°♑26'22	
	-8475 Jul 23 j 09:25	30°℞♐	
opposition	-8475 Aug 23 j 02:53	29°♐26'58	-15°40'30
min. Earth dist.	-8475 Aug 23 j 02:03	29°♐27'01	48.00470 AU
direct	-8475 Nov 12 j 18:07	28°♐27'39	
conjunction	-8474 Feb 20 j 20:06	29°♐54'50	-14°59'37
minimum elong	-8474 Feb 20 j 20:16	29°♐54'50	15°00'09
max. Earth dist.	-8474 Feb 20 j 20:20	29°♐54'50	49.91705 AU
	-8474 Feb 24 j 15:32	0°♑	
retrograde	-8474 Jun 02 j 23:16	1°♑23'52	
opposition	-8474 Aug 24 j 07:11	0°♑24'30	-15°32'46
min. Earth dist.	-8474 Aug 24 j 07:07	0°♑24'30	47.96985 AU
	-8474 Sep 15 j 09:35	30°℞♐	
direct	-8474 Nov 14 j 00:58	29°♐25'09	
	-8473 Jan 11 j 18:55	0°♑	
evening set	-8473 Feb 19 j 23:55	0°♑49'32	
conjunction	-8473 Feb 22 j 02:02	0°♑52'22	-14°52'02
minimum elong	-8473 Feb 22 j 02:11	0°♑52'23	14°52'36
max. Earth dist.	-8473 Feb 22 j 00:34	0°♑52'17	49.88065 AU
morning rise	-8473 Feb 24 j 04:29	0°♑55'14	
retrograde	-8473 Jun 04 j 04:30	2°♑21'24	
opposition	-8473 Aug 25 j 11:37	1°♑22'02	-15°24'49
min. Earth dist.	-8473 Aug 25 j 13:59	1°♑21'56	47.92966 AU
direct	-8473 Nov 15 j 06:23	0°♑22'40	
evening set	-8472 Feb 20 j 08:32	1°♑45'51	
conjunction	-8472 Feb 23 j 08:11	1°♑49'55	-14°44'14
minimum elong	-8472 Feb 23 j 08:22	1°♑49'55	14°44'47
max. Earth dist.	-8472 Feb 23 j 05:36	1°♑49'46	49.83919 AU
morning rise	-8472 Feb 26 j 08:14	1°♑53'59	
retrograde	-8472 Jun 04 j 11:23	3°♑18'55	
opposition	-8472 Aug 25 j 15:45	2°♑19'33	-15°16'37
min. Earth dist.	-8472 Aug 25 j 18:46	2°♑19'24	47.88443 AU
direct	-8472 Nov 15 j 09:14	1°♑20'07	
evening set	-8471 Feb 19 j 21:48	2°♑42'25	
conjunction	-8471 Feb 23 j 14:13	2°♑47'24	-14°36'12
minimum elong	-8471 Feb 23 j 14:22	2°♑47'25	14°36'46
max. Earth dist.	-8471 Feb 23 j 09:06	2°♑47'07	49.79291 AU
morning rise	-8471 Feb 27 j 07:02	2°♑52'26	
retrograde	-8471 Jun 05 j 18:11	4°♑16'24	
opposition	-8471 Aug 26 j 20:04	3°♑17'00	-15°08'10
min. Earth dist.	-8471 Aug 27 j 00:53	3°♑16'46	47.83480 AU
direct	-8471 Nov 16 j 12:31	2°♑17'31	
evening set	-8470 Feb 20 j 13:27	3°♑39'02	
conjunction	-8470 Feb 24 j 20:11	3°♑44'51	-14°27'56
minimum elong	-8470 Feb 24 j 20:22	3°♑44'51	14°28'29
max. Earth dist.	-8470 Feb 24 j 14:47	3°♑44'32	49.74246 AU
morning rise	-8470 Mar 01 j 03:21	3°♑50'40	
retrograde	-8470 Jun 06 j 21:00	5°♑13'48	
opposition	-8470 Aug 28 j 00:19	4°♑14'23	-14°59'28
min. Earth dist.	-8470 Aug 28 j 06:25	4°♑14'06	47.78119 AU
direct	-8470 Nov 17 j 19:41	3°♑14'50	
evening set	-8469 Feb 21 j 06:36	4°♑35'41	
conjunction	-8469 Feb 26 j 02:05	4°♑42'13	-14°19'24
minimum elong	-8469 Feb 26 j 02:15	4°♑42'14	14°19'58
max. Earth dist.	-8469 Feb 25 j 18:41	4°♑41'48	49.68852 AU
morning rise	-8469 Mar 02 j 22:02	4°♑48'47	
retrograde	-8469 Jun 08 j 00:29	6°♑11'11	
opposition	-8469 Aug 29 j 04:27	5°♑11'44	-14°50'31
min. Earth dist.	-8469 Aug 29 j 10:56	5°♑11'25	47.72438 AU
direct	-8469 Nov 19 j 02:07	4°♑12'07	
evening set	-8468 Feb 22 j 00:48	5°♑32'22	
conjunction	-8468 Feb 27 j 08:06	5°♑39'34	-14°10'37
minimum elong	-8468 Feb 27 j 08:18	5°♑39'35	14°11'11
max. Earth dist.	-8468 Feb 26 j 23:40	5°♑39'05	49.63140 AU
morning rise	-8468 Mar 03 j 15:54	5°♑46'48	
retrograde	-8468 Jun 08 j 04:51	7°♑08'33	
opposition	-8468 Aug 29 j 08:50	6°♑09'05	-14°41'17
min. Earth dist.	-8468 Aug 29 j 17:20	6°♑08'40	47.66453 AU
direct	-8468 Nov 19 j 07:51	5°♑09'24	
evening set	-8467 Feb 21 j 19:59	6°♑29'07	
conjunction	-8467 Feb 27 j 14:11	6°♑36'56	-14°01'35
minimum elong	-8467 Feb 27 j 14:21	6°♑36'56	14°02'07
max. Earth dist.	-8467 Feb 27 j 05:07	6°♑36'25	49.57154 AU
morning rise	-8467 Mar 05 j 08:49	6°♑44'47	
retrograde	-8467 Jun 09 j 10:37	8°♑05'56	
opposition	-8467 Aug 30 j 13:02	7°♑06'27	-14°31'46
min. Earth dist.	-8467 Aug 30 j 21:39	7°♑06'03	47.60186 AU
direct	-8467 Nov 20 j 12:08	6°♑06'44	
evening set	-8466 Feb 22 j 15:41	7°♑25'57	
conjunction	-8466 Feb 28 j 20:09	7°♑34'21	-13°52'16
minimum elong	-8466 Feb 28 j 20:21	7°♑34'22	13°52'50
max. Earth dist.	-8466 Feb 28 j 08:55	7°♑33'43	49.50884 AU
morning rise	-8466 Mar 07 j 01:11	7°♑42'48	
retrograde	-8466 Jun 10 j 19:17	9°♑03'24	
opposition	-8466 Aug 31 j 17:27	8°♑03'55	-14°22'00
min. Earth dist.	-8466 Sep 01 j 03:29	8°♑03'27	47.53641 AU
direct	-8466 Nov 21 j 13:36	7°♑04'10	
evening set	-8465 Feb 23 j 11:51	8°♑22'56	
conjunction	-8465 Mar 02 j 02:12	8°♑31'54	-13°42'42

Attention, astronomical year style is used: The year -8465 in astronomical counting style is the year 8466 BCE in historical counting style.

minimum elong	-8465 Mar 02 j 02:23	8°♑31'55	13°43'15
max. Earth dist.	-8465 Mar 01 j 14:52	8°♑31'16	49.44316 AU
morning rise	-8465 Mar 08 j 16:58	8°♑40'54	
retrograde	-8465 Jun 12 j 00:18	10°♑01'00	
opposition	-8465 Sep 01 j 21:52	9°♑01'32	-14°11'57
min. Earth dist.	-8465 Sep 02 j 09:15	9°♑00'59	47.46754 AU
direct	-8465 Nov 22 j 19:06	8°♑01'45	
evening set	-8464 Feb 24 j 08:48	9°♑20'07	
conjunction	-8464 Mar 02 j 08:23	9°♑29'37	-13°32'52
minimum elong	-8464 Mar 02 j 08:34	9°♑29'38	13°33'26
max. Earth dist.	-8464 Mar 01 j 18:56	9°♑28'51	49.37392 AU
morning rise	-8464 Mar 09 j 08:30	9°♑39'09	
retrograde	-8464 Jun 12 j 04:28	10°♑58'47	
opposition	-8464 Sep 02 j 02:08	9°♑59'19	-14°01'39
min. Earth dist.	-8464 Sep 02 j 14:19	9°♑58'44	47.39481 AU
direct	-8464 Nov 23 j 00:54	8°♑59'30	
evening set	-8463 Feb 24 j 06:09	10°♑17'30	
conjunction	-8463 Mar 03 j 14:45	10°♑27'31	-13°22'49
minimum elong	-8463 Mar 03 j 14:57	10°♑27'31	13°23'21
max. Earth dist.	-8463 Mar 02 j 23:44	10°♑26'39	49.30025 AU
morning rise	-8463 Mar 10 j 23:53	10°♑37'34	
retrograde	-8463 Jun 13 j 08:53	11°♑56'46	
opposition	-8463 Sep 03 j 06:46	10°♑57'18	-13°51'07
min. Earth dist.	-8463 Sep 03 j 21:19	10°♑56'36	47.31735 AU
direct	-8463 Nov 24 j 07:11	9°♑57'26	
evening set	-8462 Feb 25 j 03:54	11°♑15'05	
conjunction	-8462 Mar 04 j 21:03	11°♑25'35	-13°12'31
minimum elong	-8462 Mar 04 j 21:15	11°♑25'36	13°13'04
max. Earth dist.	-8462 Mar 04 j 04:54	11°♑24'40	49.22172 AU
morning rise	-8462 Mar 12 j 14:39	11°♑36'08	
retrograde	-8462 Jun 14 j 15:35	12°♑54'55	
opposition	-8462 Sep 04 j 11:20	11°♑55'27	-13°40'20
min. Earth dist.	-8462 Sep 05 j 02:32	11°♑54'43	47.23468 AU
direct	-8462 Nov 25 j 11:05	10°♑55'31	
evening set	-8461 Feb 26 j 02:02	12°♑12'49	
max. Earth dist.	-8461 Mar 05 j 08:33	12°♑22'44	49.13785 AU
conjunction	-8461 Mar 06 j 03:25	12°♑23'49	-13°01'59
minimum elong	-8461 Mar 06 j 03:38	12°♑23'49	13°02'32
morning rise	-8461 Mar 14 j 05:25	12°♑34'51	
retrograde	-8461 Jun 15 j 23:24	13°♑53'14	
opposition	-8461 Sep 05 j 15:55	12°♑53'44	-13°29'19
min. Earth dist.	-8461 Sep 06 j 09:12	12°♑52'54	47.14677 AU
direct	-8461 Nov 26 j 13:43	11°♑53'44	
evening set	-8460 Feb 27 j 00:30	13°♑10'42	
conjunction	-8460 Mar 06 j 10:02	13°♑22'10	-12°51'14
minimum elong	-8460 Mar 06 j 10:13	13°♑22'10	12°51'48
max. Earth dist.	-8460 Mar 05 j 14:22	13°♑21'02	49.04874 AU
morning rise	-8460 Mar 14 j 19:56	13°♑33'39	
retrograde	-8460 Jun 16 j 03:56	14°♑51'39	
opposition	-8460 Sep 05 j 20:36	13°♑52'06	-13°18'03
min. Earth dist.	-8460 Sep 06 j 15:24	13°♑51'12	47.05357 AU
direct	-8460 Nov 26 j 20:38	12°♑52'01	
evening set	-8459 Feb 26 j 23:24	14°♑08'41	
conjunction	-8459 Mar 07 j 16:31	14°♑20'36	-12°40'14
minimum elong	-8459 Mar 07 j 16:43	14°♑20'37	12°40'47
max. Earth dist.	-8459 Mar 06 j 18:31	14°♑19'21	48.95471 AU
morning rise	-8459 Mar 16 j 10:12	14°♑32'33	
retrograde	-8459 Jun 17 j 08:16	15°♑50'10	
opposition	-8459 Sep 07 j 01:09	14°♑50'35	-13°06'33
min. Earth dist.	-8459 Sep 07 j 20:45	14°♑49'38	46.95577 AU
direct	-8459 Nov 28 j 03:29	13°♑50'24	
evening set	-8458 Feb 27 j 22:18	15°♑06'47	
conjunction	-8458 Mar 08 j 23:04	15°♑19'08	-12°29'00
minimum elong	-8458 Mar 08 j 23:15	15°♑19'09	12°29'33
max. Earth dist.	-8458 Mar 07 j 23:47	15°♑17'48	48.85620 AU
morning rise	-8458 Mar 18 j 00:16	15°♑31'31	
retrograde	-8458 Jun 18 j 12:38	16°♑48'48	
opposition	-8458 Sep 08 j 05:57	15°♑49'09	-12°54'47
min. Earth dist.	-8458 Sep 09 j 03:44	15°♑48'06	46.85386 AU
direct	-8458 Nov 29 j 09:52	14°♑48'52	
evening set	-8457 Feb 28 j 21:29	16°♑04'59	
max. Earth dist.	-8457 Mar 09 j 05:29	16°♑16'23	48.75401 AU
conjunction	-8457 Mar 10 j 05:31	16°♑17'45	-12°17'30
minimum elong	-8457 Mar 10 j 05:44	16°♑17'46	12°18'02
morning rise	-8457 Mar 19 j 13:57	16°♑30'35	
retrograde	-8457 Jun 19 j 18:25	17°♑47'32	
opposition	-8457 Sep 09 j 10:39	16°♑47'49	-12°42'44
min. Earth dist.	-8457 Sep 10 j 08:36	16°♑46'45	46.74838 AU
direct	-8457 Nov 30 j 15:00	15°♑47'26	
evening set	-8456 Feb 29 j 20:58	17°♑03'18	
max. Earth dist.	-8456 Mar 09 j 09:47	17°♑14'59	48.64841 AU
conjunction	-8456 Mar 10 j 12:06	17°♑16'30	-12°05'45
minimum elong	-8456 Mar 10 j 12:17	17°♑16'31	12°06'17
morning rise	-8456 Mar 20 j 03:46	17°♑29'45	
retrograde	-8456 Jun 20 j 03:39	18°♑46'24	
opposition	-8456 Sep 09 j 15:25	17°♑46'37	-12°30'26
min. Earth dist.	-8456 Sep 10 j 15:00	17°♑45'29	46.63983 AU
direct	-8456 Nov 30 j 16:52	16°♑46'09	
evening set	-8455 Mar 01 j 20:42	18°♑01'46	
conjunction	-8455 Mar 11 j 18:53	18°♑15'24	-11°53'43
minimum elong	-8455 Mar 11 j 19:06	18°♑15'25	11°54'16
max. Earth dist.	-8455 Mar 10 j 16:33	18°♑13'54	48.53987 AU
morning rise	-8455 Mar 21 j 17:22	18°♑29'04	
retrograde	-8455 Jun 21 j 10:02	19°♑45'26	
opposition	-8455 Sep 10 j 20:24	18°♑45'36	-12°17'50
min. Earth dist.	-8455 Sep 11 j 20:59	18°♑44'25	46.52832 AU
direct	-8455 Dec 01 j 22:18	17°♑45'03	
evening set	-8454 Mar 02 j 20:36	19°♑00'28	
max. Earth dist.	-8454 Mar 11 j 21:10	19°♑12'53	48.42857 AU
conjunction	-8454 Mar 13 j 01:24	19°♑14'31	-11°41'26
minimum elong	-8454 Mar 13 j 01:36	19°♑14'32	11°41'58
morning rise	-8454 Mar 23 j 06:41	19°♑28'35	
retrograde	-8454 Jun 22 j 15:34	20°♑44'41	
opposition	-8454 Sep 12 j 01:20	19°♑44'49	-12°04'57
min. Earth dist.	-8454 Sep 13 j 02:21	19°♑43'36	46.41405 AU
direct	-8454 Dec 03 j 03:53	18°♑44'11	
evening set	-8453 Mar 03 j 20:43	19°♑59'26	
max. Earth dist.	-8453 Mar 13 j 02:57	20°♑12'11	48.31422 AU
conjunction	-8453 Mar 14 j 08:16	20°♑13'52	-11°28'52
minimum elong	-8453 Mar 14 j 08:29	20°♑13'53	11°29'25
morning rise	-8453 Mar 24 j 20:09	20°♑28'20	
retrograde	-8453 Jun 23 j 18:45	21°♑44'13	
opposition	-8453 Sep 13 j 06:21	20°♑44'18	-11°51'48
min. Earth dist.	-8453 Sep 14 j 09:27	20°♑42'59	46.29655 AU
direct	-8453 Dec 04 j 12:02	19°♑43'35	
evening set	-8452 Mar 03 j 21:19	20°♑58'41	
max. Earth dist.	-8452 Mar 13 j 09:06	21°♑11'46	48.19654 AU
conjunction	-8452 Mar 14 j 15:18	21°♑13'31	-11°16'02
minimum elong	-8452 Mar 14 j 15:30	21°♑13'32	11°16'34
morning rise	-8452 Mar 25 j 09:31	21°♑28'23	
retrograde	-8452 Jun 24 j 01:12	22°♑44'02	

Attention, astronomical year style is used: The year -8452 in astronomical counting style is the year 8453 BCE in historical counting style.

opposition	-8452 Sep 13 j 11:27	21°♑44'05	-11°38'22
min. Earth dist.	-8452 Sep 14 j 14:58	21°♑42'45	46.17525 AU
direct	-8452 Dec 04 j 17:28	20°♑43'17	
evening set	-8451 Mar 04 j 22:08	21°♑58'13	
conjunction	-8451 Mar 15 j 22:22	22°♑13'27	-11°02'57
minimum elong	-8451 Mar 15 j 22:34	22°♑13'28	11°03'30
max. Earth dist.	-8451 Mar 14 j 13:39	22°♑11'33	48.07459 AU
morning rise	-8451 Mar 26 j 22:58	22°♑28'42	
retrograde	-8451 Jun 25 j 10:18	23°♑44'09	
opposition	-8451 Sep 14 j 16:43	22°♑44'09	-11°24'41
min. Earth dist.	-8451 Sep 15 j 22:22	22°♑42'43	46.04955 AU
direct	-8451 Dec 05 j 19:38	21°♑43'15	
evening set	-8450 Mar 05 j 23:12	22°♑58'03	
max. Earth dist.	-8450 Mar 15 j 20:19	23°♑11'44	47.94795 AU
conjunction	-8450 Mar 17 j 05:41	23°♑13'40	-10°49'37
minimum elong	-8450 Mar 17 j 05:53	23°♑13'41	10°50'08
morning rise	-8450 Mar 28 j 12:14	23°♑29'19	
retrograde	-8450 Jun 26 j 17:06	24°♑44'34	
opposition	-8450 Sep 15 j 22:08	23°♑44'29	-11°10'44
min. Earth dist.	-8450 Sep 17 j 05:04	23°♑42'59	45.91882 AU
direct	-8450 Dec 07 j 01:58	22°♑43'28	
evening set	-8449 Mar 07 j 00:31	23°♑58'08	
max. Earth dist.	-8449 Mar 17 j 00:59	24°♑12'03	47.81628 AU
conjunction	-8449 Mar 18 j 12:52	24°♑14'08	-10°36'02
minimum elong	-8449 Mar 18 j 13:04	24°♑14'09	10°36'34
morning rise	-8449 Mar 30 j 01:29	24°♑30'09	
retrograde	-8449 Jun 27 j 23:49	25°♑45'11	
opposition	-8449 Sep 17 j 03:35	24°♑45'02	-10°56'31
min. Earth dist.	-8449 Sep 18 j 11:36	24°♑43'28	45.78302 AU
direct	-8449 Dec 08 j 08:42	23°♑43'52	
evening set	-8448 Mar 07 j 02:06	24°♑58'25	
max. Earth dist.	-8448 Mar 17 j 07:04	25°♑12'37	47.67940 AU
conjunction	-8448 Mar 18 j 20:24	25°♑14'48	-10°22'12
minimum elong	-8448 Mar 18 j 20:37	25°♑14'48	10°22'43
morning rise	-8448 Mar 30 j 14:47	25°♑31'10	
retrograde	-8448 Jun 28 j 04:32	26°♑46'01	
opposition	-8448 Sep 17 j 09:09	25°♑45'45	-10°42'02
min. Earth dist.	-8448 Sep 18 j 19:31	25°♑44'04	45.64216 AU
direct	-8448 Dec 08 j 16:38	24°♑44'27	
evening set	-8447 Mar 08 j 04:01	25°♑58'53	
max. Earth dist.	-8447 Mar 18 j 13:26	26°♑13'21	47.53784 AU
conjunction	-8447 Mar 20 j 03:58	26°♑15'37	-10°08'06
minimum elong	-8447 Mar 20 j 04:09	26°♑15'37	10°08'38
morning rise	-8447 Apr 01 j 03:55	26°♑32'21	
retrograde	-8447 Jun 29 j 09:44	27°♑47'02	
opposition	-8447 Sep 18 j 14:45	26°♑46'39	-10°27'17
min. Earth dist.	-8447 Sep 20 j 01:28	26°♑44'57	45.49683 AU
direct	-8447 Dec 09 j 23:57	25°♑45'10	
evening set	-8446 Mar 09 j 05:53	26°♑59'30	
max. Earth dist.	-8446 Mar 19 j 18:32	27°♑14'12	47.39197 AU
conjunction	-8446 Mar 21 j 11:18	27°♑16'35	-9°53'45
minimum elong	-8446 Mar 21 j 11:31	27°♑16'36	9°54'16
morning rise	-8446 Apr 02 j 16:53	27°♑33'41	
retrograde	-8446 Jun 30 j 18:18	28°♑48'12	
opposition	-8446 Sep 19 j 20:30	27°♑47'42	-10°12'16
min. Earth dist.	-8446 Sep 21 j 09:05	27°♑45'54	45.34763 AU
direct	-8446 Dec 11 j 04:03	26°♑46'03	
evening set	-8445 Mar 10 j 08:01	28°♑00'17	
max. Earth dist.	-8445 Mar 21 j 02:06	28°♑15'20	47.24252 AU
conjunction	-8445 Mar 22 j 19:00	28°♑17'44	-9°39'07
minimum elong	-8445 Mar 22 j 19:11	28°♑17'45	9°39'38
morning rise	-8445 Apr 04 j 05:46	28°♑35'11	
retrograde	-8445 Jul 02 j 01:56	29°♑49'33	
opposition	-8445 Sep 21 j 02:13	28°♑48'55	-9°56'57
min. Earth dist.	-8445 Sep 22 j 15:43	28°♑47'05	45.19506 AU
direct	-8445 Dec 12 j 09:43	27°♑47'07	
evening set	-8444 Mar 10 j 10:37	29°♑01'18	
max. Earth dist.	-8444 Mar 21 j 07:45	29°♑16'34	47.09006 AU
conjunction	-8444 Mar 23 j 02:42	29°♑19'05	-9°24'13
minimum elong	-8444 Mar 23 j 02:54	29°♑19'06	9°24'44
morning rise	-8444 Apr 04 j 18:49	29°♑36'54	
	-8444 Apr 22 j 01:17	0°♒	
retrograde	-8444 Jul 02 j 10:16	0°♒51'08	
	-8444 Sep 13 j 04:37	30°℞♑	
opposition	-8444 Sep 21 j 08:07	29°♑50'23	-9°41'20
min. Earth dist.	-8444 Sep 22 j 22:13	29°♑48'30	45.03978 AU
direct	-8444 Dec 12 j 15:10	28°♑48'25	
	-8443 Mar 09 j 16:44	0°♒	
evening set	-8443 Mar 11 j 13:14	0°♒02'34	
max. Earth dist.	-8443 Mar 22 j 14:49	0°♒18'08	46.93486 AU
conjunction	-8443 Mar 24 j 10:34	0°♒20'43	-9°09'02
minimum elong	-8443 Mar 24 j 10:45	0°♒20'43	9°09'32
morning rise	-8443 Apr 06 j 07:38	0°♒38'51	
retrograde	-8443 Jul 03 j 14:37	1°♒53'00	
opposition	-8443 Sep 22 j 14:15	0°♒52'09	-9°25'25
min. Earth dist.	-8443 Sep 24 j 06:00	0°♒50'11	44.88193 AU
	-8443 Nov 13 j 18:00	30°℞♑	
direct	-8443 Dec 14 j 00:09	29°♑50'02	
	-8442 Jan 13 j 02:57	0°♒	
evening set	-8442 Mar 12 j 16:15	1°♒04'10	
max. Earth dist.	-8442 Mar 23 j 22:09	1°♒20'02	46.77742 AU
conjunction	-8442 Mar 25 j 18:31	1°♒22'40	-8°53'33
minimum elong	-8442 Mar 25 j 18:43	1°♒22'40	8°54'04
morning rise	-8442 Apr 07 j 20:31	1°♒41'09	
retrograde	-8442 Jul 04 j 20:48	2°♒55'13	
opposition	-8442 Sep 23 j 20:23	1°♒54'17	-9°09'12
min. Earth dist.	-8442 Sep 25 j 12:06	1°♒52'18	44.72179 AU
direct	-8442 Dec 15 j 07:32	0°♒52'02	
evening set	-8441 Mar 13 j 19:25	2°♒06'11	
max. Earth dist.	-8441 Mar 25 j 04:11	2°♒22'15	46.61746 AU
conjunction	-8441 Mar 27 j 02:31	2°♒25'01	-8°37'47
minimum elong	-8441 Mar 27 j 02:42	2°♒25'01	8°38'17
morning rise	-8441 Apr 09 j 09:25	2°♒43'50	
retrograde	-8441 Jul 06 j 06:33	3°♒57'53	
opposition	-8441 Sep 25 j 02:45	2°♒56'51	-8°52'40
min. Earth dist.	-8441 Sep 26 j 20:20	2°♒54'47	44.55902 AU
direct	-8441 Dec 16 j 10:56	1°♒54'29	
evening set	-8440 Mar 13 j 23:00	3°♒08'40	
max. Earth dist.	-8440 Mar 25 j 12:25	3°♒25'04	46.45458 AU
conjunction	-8440 Mar 27 j 10:58	3°♒27'50	-8°21'44
minimum elong	-8440 Mar 27 j 11:10	3°♒27'51	8°22'14
morning rise	-8440 Apr 09 j 22:21	3°♒47'00	
retrograde	-8440 Jul 06 j 14:48	5°♒01'02	
opposition	-8440 Sep 25 j 09:10	3°♒59'54	-8°35'51
min. Earth dist.	-8440 Sep 27 j 03:36	3°♒57'47	44.39295 AU
direct	-8440 Dec 16 j 17:35	2°♒57'24	
evening set	-8439 Mar 15 j 03:06	4°♒11'39	
max. Earth dist.	-8439 Mar 26 j 18:37	4°♒28'15	46.28817 AU
conjunction	-8439 Mar 28 j 19:27	4°♒31'10	-8°05'24
minimum elong	-8439 Mar 28 j 19:38	4°♒31'10	8°05'53
morning rise	-8439 Apr 11 j 11:29	4°♒50'40	

Attention, astronomical year style is used: The year -8439 in astronomical counting style is the year 8440 BCE in historical counting style.

retrograde	-8439 Jul 08 j 00:48	6°♒04'41	
opposition	-8439 Sep 26 j 15:51	5°♒03'28	-8°18'44
min. Earth dist.	-8439 Sep 28 j 11:24	5°♒01'17	44.22314 AU
direct	-8439 Dec 17 j 23:42	4°♒00'49	
evening set	-8438 Mar 16 j 07:11	5°♒15'09	
max. Earth dist.	-8438 Mar 28 j 02:13	5°♒32'00	46.11747 AU
conjunction	-8438 Mar 30 j 04:06	5°♒35'00	-7°48'48
minimum elong	-8438 Mar 30 j 04:17	5°♒35'00	7°49'17
morning rise	-8438 Apr 13 j 00:21	5°♒54'49	
retrograde	-8438 Jul 09 j 08:00	7°♒08'51	
opposition	-8438 Sep 27 j 22:51	6°♒07'31	-8°01'19
min. Earth dist.	-8438 Sep 29 j 20:31	6°♒05'14	44.04880 AU
direct	-8438 Dec 19 j 08:40	5°♒04'43	
evening set	-8437 Mar 17 j 11:52	6°♒19'08	
max. Earth dist.	-8437 Mar 29 j 09:40	6°♒36'12	45.94226 AU
conjunction	-8437 Mar 31 j 13:00	6°♒39'18	-7°31'55
minimum elong	-8437 Mar 31 j 13:11	6°♒39'19	7°32'23
morning rise	-8437 Apr 14 j 13:29	6°♒59'27	
retrograde	-8437 Jul 10 j 14:20	8°♒13'29	
opposition	-8437 Sep 29 j 05:44	7°♒12'02	-7°43'37
min. Earth dist.	-8437 Oct 01 j 03:50	7°♒09'43	43.86982 AU
direct	-8437 Dec 20 j 17:36	6°♒09'03	
evening set	-8436 Mar 17 j 16:54	7°♒23'33	
max. Earth dist.	-8436 Mar 29 j 16:21	7°♒40'47	45.76225 AU
conjunction	-8436 Mar 31 j 22:08	7°♒44'02	-7°14'45
minimum elong	-8436 Mar 31 j 22:19	7°♒44'03	7°15'15
morning rise	-8436 Apr 15 j 02:44	8°♒04'30	
retrograde	-8436 Jul 10 j 23:04	9°♒18'34	
opposition	-8436 Sep 29 j 13:02	8°♒16'58	-7°25'38
min. Earth dist.	-8436 Oct 01 j 13:24	8°♒14'32	43.68624 AU
direct	-8436 Dec 21 j 00:05	7°♒13'47	
evening set	-8435 Mar 18 j 22:05	8°♒28'23	
max. Earth dist.	-8435 Mar 31 j 01:17	8°♒45'53	45.57780 AU
conjunction	-8435 Apr 02 j 07:25	8°♒49'11	-6°57'19
minimum elong	-8435 Apr 02 j 07:35	8°♒49'11	6°57'47
morning rise	-8435 Apr 16 j 15:45	9°♒09'57	
retrograde	-8435 Jul 12 j 08:53	10°♒24'03	
opposition	-8435 Sep 30 j 20:22	9°♒22'17	-7°07'20
min. Earth dist.	-8435 Oct 02 j 21:32	9°♒19'48	43.49836 AU
direct	-8435 Dec 22 j 06:16	8°♒18'53	
evening set	-8434 Mar 20 j 03:42	9°♒33'36	
max. Earth dist.	-8434 Apr 01 j 08:11	9°♒51'15	45.38941 AU
conjunction	-8434 Apr 03 j 16:42	9°♒54'42	-6°39'36
minimum elong	-8434 Apr 03 j 16:51	9°♒54'43	6°40'05
morning rise	-8434 Apr 18 j 04:56	10°♒15'46	
retrograde	-8434 Jul 13 j 20:08	11°♒29'55	
opposition	-8434 Oct 02 j 03:48	10°♒27'58	-6°48'44
min. Earth dist.	-8434 Oct 04 j 06:04	10°♒25'26	43.30701 AU
direct	-8434 Dec 23 j 11:36	9°♒24'21	
evening set	-8433 Mar 21 j 09:21	10°♒39'11	
max. Earth dist.	-8433 Apr 02 j 17:05	10°♒57'06	45.19759 AU
conjunction	-8433 Apr 05 j 02:12	11°♒00'36	-6°21'35
minimum elong	-8433 Apr 05 j 02:22	11°♒00'37	6°22'02
morning rise	-8433 Apr 19 j 17:54	11°♒21'58	
retrograde	-8433 Jul 15 j 03:33	12°♒36'11	
opposition	-8433 Oct 03 j 11:35	11°♒34'03	-6°29'49
min. Earth dist.	-8433 Oct 05 j 15:24	11°♒31'25	43.11247 AU
direct	-8433 Dec 24 j 21:51	10°♒30'12	
evening set	-8432 Mar 21 j 15:36	11°♒45'11	
max. Earth dist.	-8432 Apr 03 j 01:46	12°♒03'19	45.00301 AU
conjunction	-8432 Apr 05 j 11:53	12°♒06'54	-6°03'17
minimum elong	-8432 Apr 05 j 12:02	12°♒06'54	6°03'43
morning rise	-8432 Apr 20 j 07:05	12°♒28'34	
retrograde	-8432 Jul 15 j 10:38	13°♒42'50	
opposition	-8432 Oct 03 j 19:21	12°♒40'32	-6°10'36
min. Earth dist.	-8432 Oct 05 j 23:15	12°♒37'53	42.91547 AU
direct	-8432 Dec 25 j 08:39	11°♒36'28	
evening set	-8431 Mar 22 j 22:08	12°♒51'37	
max. Earth dist.	-8431 Apr 04 j 10:00	13°♒09'56	44.80599 AU
conjunction	-8431 Apr 06 j 21:45	13°♒13'38	-5°44'40
minimum elong	-8431 Apr 06 j 21:55	13°♒13'38	5°45'07
morning rise	-8431 Apr 21 j 20:12	13°♒35'35	
retrograde	-8431 Jul 16 j 19:23	14°♒49'59	
opposition	-8431 Oct 05 j 03:34	13°♒47'29	-5°51'03
min. Earth dist.	-8431 Oct 07 j 09:14	13°♒44'44	42.71636 AU
direct	-8431 Dec 26 j 16:35	12°♒43'12	
evening set	-8430 Mar 24 j 04:48	13°♒58'33	
max. Earth dist.	-8430 Apr 05 j 20:02	14°♒17'09	44.60701 AU
conjunction	-8430 Apr 08 j 07:42	14°♒20'51	-5°25'46
minimum elong	-8430 Apr 08 j 07:50	14°♒20'51	5°26'12
morning rise	-8430 Apr 23 j 09:08	14°♒43'05	
	-8430 May 05 j 08:20	15°♒	
retrograde	-8430 Jul 18 j 04:28	15°♒57'38	
	-8430 Oct 02 j 09:49	15°℞♒	
opposition	-8430 Oct 06 j 11:56	14°♒54'58	-5°31'11
min. Earth dist.	-8430 Oct 08 j 17:40	14°♒52'12	42.51521 AU
direct	-8430 Dec 28 j 01:09	13°♒50'28	
	-8429 Mar 21 j 07:26	15°♒	
evening set	-8429 Mar 25 j 12:09	15°♒06'03	
max. Earth dist.	-8429 Apr 07 j 04:16	15°♒24'47	44.40596 AU
conjunction	-8429 Apr 09 j 17:56	15°♒28'38	-5°06'33
minimum elong	-8429 Apr 09 j 18:05	15°♒28'38	5°07'00
morning rise	-8429 Apr 24 j 22:28	15°♒51'10	
retrograde	-8429 Jul 19 j 17:25	17°♒05'52	
opposition	-8429 Oct 07 j 20:21	16°♒03'03	-5°10'59
min. Earth dist.	-8429 Oct 10 j 03:16	16°♒00'13	42.31199 AU
	-8429 Dec 17 j 08:52	15°℞♒	
direct	-8429 Dec 29 j 06:48	14°♒58'20	
	-8428 Jan 10 j 07:23	15°♒	
evening set	-8428 Mar 25 j 19:52	16°♒14'11	
max. Earth dist.	-8428 Apr 07 j 14:38	16°♒33'11	44.20241 AU
conjunction	-8428 Apr 10 j 04:40	16°♒37'03	-4°47'02
minimum elong	-8428 Apr 10 j 04:48	16°♒37'04	4°47'28
morning rise	-8428 Apr 25 j 11:46	16°♒59'51	
retrograde	-8428 Jul 20 j 04:38	18°♒14'46	
opposition	-8428 Oct 08 j 05:16	17°♒11'47	-4°50'28
min. Earth dist.	-8428 Oct 10 j 13:43	17°♒08'52	42.10596 AU
direct	-8428 Dec 29 j 15:56	16°♒06'52	
evening set	-8427 Mar 27 j 04:06	17°♒23'01	
max. Earth dist.	-8427 Apr 08 j 23:56	17°♒42'10	43.99584 AU
conjunction	-8427 Apr 11 j 15:26	17°♒46'10	-4°27'14
minimum elong	-8427 Apr 11 j 15:34	17°♒46'10	4°27'39
morning rise	-8427 Apr 27 j 01:12	18°♒09'14	
retrograde	-8427 Jul 21 j 15:17	19°♒24'22	
opposition	-8427 Oct 09 j 14:18	18°♒21'13	-4°29'38
min. Earth dist.	-8427 Oct 11 j 23:07	18°♒18'16	41.89666 AU
direct	-8427 Dec 31 j 01:49	17°♒16'05	
evening set	-8426 Mar 28 j 12:47	18°♒32'32	
max. Earth dist.	-8426 Apr 10 j 09:16	18°♒51'50	43.78547 AU
conjunction	-8426 Apr 13 j 02:37	18°♒55'58	-4°07'07
minimum elong	-8426 Apr 13 j 02:44	18°♒55'58	4°07'32

Attention, astronomical year style is used: The year -8426 in astronomical counting style is the year 8427 BCE in historical counting style.

morning rise	-8426 Apr 28 j 14:43	19°♒19'18	
retrograde	-8426 Jul 23 j 00:22	20°♒34'41	
opposition	-8426 Oct 10 j 23:44	19°♒31'21	-4°08'28
min. Earth dist.	-8426 Oct 13 j 10:49	19°♒28'16	41.68345 AU
direct	-8425 Jan 01 j 12:06	18°♒25'59	
evening set	-8425 Mar 29 j 21:51	19°♒42'46	
max. Earth dist.	-8425 Apr 11 j 20:11	20°♒02'16	43.57103 AU
conjunction	-8425 Apr 14 j 14:05	20°♒06'28	-3°46'43
minimum elong	-8425 Apr 14 j 14:12	20°♒06'28	3°47'08
morning rise	-8425 Apr 30 j 04:21	20°♒30'04	
retrograde	-8425 Jul 24 j 10:28	21°♒45'42	
opposition	-8425 Oct 12 j 09:24	20°♒42'10	-3°47'00
min. Earth dist.	-8425 Oct 14 j 21:03	20°♒39'03	41.46591 AU
direct	-8424 Jan 02 j 22:08	19°♒36'33	
evening set	-8424 Mar 30 j 07:37	20°♒53'40	
max. Earth dist.	-8424 Apr 12 j 05:15	21°♒13'15	43.35218 AU
conjunction	-8424 Apr 15 j 01:49	21°♒17'38	-3°26'01
minimum elong	-8424 Apr 15 j 01:55	21°♒17'38	3°26'24
morning rise	-8424 Apr 30 j 18:11	21°♒41'29	
retrograde	-8424 Jul 24 j 23:46	22°♒57'24	
opposition	-8424 Oct 12 j 19:17	21°♒53'38	-3°25'12
min. Earth dist.	-8424 Oct 15 j 08:41	21°♒50'25	41.24424 AU
direct	-8423 Jan 03 j 05:10	20°♒47'45	
evening set	-8423 Mar 31 j 17:40	22°♒05'15	
max. Earth dist.	-8423 Apr 13 j 16:51	22°♒25'01	43.12920 AU
conjunction	-8423 Apr 16 j 13:56	22°♒29'27	-3°05'02
minimum elong	-8423 Apr 16 j 14:01	22°♒29'27	3°05'26
morning rise	-8423 May 02 j 07:56	22°♒53'33	
retrograde	-8423 Jul 26 j 11:35	24°♒09'46	
opposition	-8423 Oct 14 j 05:36	23°♒05'46	-3°03'06
min. Earth dist.	-8423 Oct 16 j 20:14	23°♒02'28	41.01866 AU
direct	-8422 Jan 04 j 15:56	21°♒59'36	
evening set	-8422 Apr 02 j 04:05	23°♒17'29	
max. Earth dist.	-8422 Apr 15 j 03:16	23°♒37'22	42.90269 AU
conjunction	-8422 Apr 18 j 01:56	23°♒41'56	-2°43'45
minimum elong	-8422 Apr 18 j 02:01	23°♒41'56	2°44'07
morning rise	-8422 May 03 j 21:43	24°♒06'16	
retrograde	-8422 Jul 28 j 00:23	25°♒22'48	
opposition	-8422 Oct 15 j 15:58	24°♒18'33	-2°40'40
min. Earth dist.	-8422 Oct 18 j 07:06	24°♒15'13	40.78991 AU
direct	-8421 Jan 06 j 03:41	23°♒12'05	
evening set	-8421 Apr 03 j 15:02	24°♒30'23	
max. Earth dist.	-8421 Apr 16 j 14:32	24°♒50'24	42.67303 AU
conjunction	-8421 Apr 19 j 14:28	24°♒55'04	-2°22'09
minimum elong	-8421 Apr 19 j 14:32	24°♒55'05	2°22'32
morning rise	-8421 May 05 j 11:32	25°♒19'38	
retrograde	-8421 Jul 29 j 11:39	26°♒36'30	
opposition	-8421 Oct 17 j 02:40	25°♒32'01	-2°17'54
min. Earth dist.	-8421 Oct 19 j 19:45	25°♒28'33	40.55848 AU
direct	-8420 Jan 07 j 15:46	24°♒25'15	
evening set	-8420 Apr 04 j 02:31	25°♒43'59	
max. Earth dist.	-8420 Apr 17 j 03:02	26°♒04'11	42.44107 AU
conjunction	-8420 Apr 20 j 03:15	26°♒08'54	-2°00'16
minimum elong	-8420 Apr 20 j 03:18	26°♒08'54	2°00'38
morning rise	-8420 May 06 j 01:31	26°♒33'41	
retrograde	-8420 Jul 29 j 21:57	27°♒50'56	
opposition	-8420 Oct 17 j 13:42	26°♒46'11	-1°54'50
min. Earth dist.	-8420 Oct 20 j 06:35	26°♒42'43	40.32506 AU
direct	-8419 Jan 08 j 04:12	25°♒39'07	
evening set	-8419 Apr 05 j 14:28	26°♒58'20	
max. Earth dist.	-8419 Apr 18 j 14:07	27°♒18'35	42.20725 AU

conjunction	-8419 Apr 21 j 16:07	27°♒23'28	-1°38'06
minimum elong	-8419 Apr 21 j 16:10	27°♒23'28	1°38'27
morning rise	-8419 May 07 j 15:24	27°♒48'28	
retrograde	-8419 Jul 31 j 11:18	29°♒06'07	
opposition	-8419 Oct 19 j 01:07	28°♒01'07	-1°31'26
min. Earth dist.	-8419 Oct 21 j 19:20	27°♒57'34	40.09025 AU
direct	-8418 Jan 09 j 13:19	26°♒53'45	
evening set	-8418 Apr 07 j 02:51	28°♒13'28	
max. Earth dist.	-8418 Apr 20 j 03:52	28°♒33'57	41.97214 AU
conjunction	-8418 Apr 23 j 05:30	28°♒38'49	-1°15'37
minimum elong	-8418 Apr 23 j 05:32	28°♒38'49	1°15'58
morning rise	-8418 May 09 j 05:21	29°♒04'02	
	-8418 Jun 20 j 13:46	0°♓	
retrograde	-8418 Aug 02 j 01:15	0°♓22'09	
	-8418 Sep 14 j 01:25	30°♑℞	
opposition	-8418 Oct 20 j 12:48	29°♒16'53	-1°07'42
min. Earth dist.	-8418 Oct 23 j 07:30	29°♒13'17	39.85427 AU
direct	-8417 Jan 10 j 23:18	28°♒09'13	
evening set	-8417 Apr 08 j 15:57	29°♒29'31	
max. Earth dist.	-8417 Apr 21 j 15:53	29°♒50'03	41.73597 AU
conjunction	-8417 Apr 24 j 19:03	29°♒55'03	-0°52'51
minimum elong	-8417 Apr 24 j 19:05	29°♒55'03	0°53'12
	-8417 Apr 27 j 21:15	0°♓	
morning rise	-8417 May 10 j 19:36	0°♓20'28	
retrograde	-8417 Aug 03 j 17:11	1°♓39'04	
opposition	-8417 Oct 22 j 00:48	0°♓33'34	-0°43'40
min. Earth dist.	-8417 Oct 24 j 19:52	0°♓29'56	39.61723 AU
	-8417 Nov 18 j 01:01	30°♑℞	
direct	-8416 Jan 12 j 09:03	29°♒25'36	
	-8416 Mar 07 j 01:58	0°♓	
evening set	-8416 Apr 09 j 05:37	0°♓46'30	
max. Earth dist.	-8416 Apr 22 j 05:23	1°♓07'10	41.49828 AU
conjunction	-8416 Apr 25 j 09:10	1°♓12'15	-0°29'48
minimum elong	-8416 Apr 25 j 09:11	1°♓12'15	0°30'08
morning rise	-8416 May 11 j 09:48	1°♓37'50	
retrograde	-8416 Aug 04 j 06:48	2°♓56'58	
opposition	-8416 Oct 22 j 13:16	1°♓51'13	-0°19'18
min. Earth dist.	-8416 Oct 25 j 09:57	1°♓47'29	39.37858 AU
direct	-8415 Jan 12 j 23:18	0°♓42'59	
evening set	-8415 Apr 10 j 20:01	2°♓04'31	
max. Earth dist.	-8415 Apr 23 j 19:19	2°♓25'18	41.25887 AU
conjunction	-8415 Apr 26 j 23:35	2°♓30'27	-0°06'30
minimum elong	-8415 Apr 26 j 23:35	2°♓30'27	0°06'49
behind sun begin	-8415 Apr 26 j 17:32	2°♓30'04	
behind sun end	-8415 Apr 27 j 05:39	2°♓30'50	
morning rise	-8415 May 13 j 00:17	2°♓56'13	
retrograde	-8415 Aug 05 j 20:38	4°♓15'54	
asc. node	-8415 Aug 05 j 18:30	4°♓15'54	
opposition	-8415 Oct 24 j 02:07	3°♓09'54	0°05'22
min. Earth dist.	-8415 Oct 26 j 22:46	3°♓06'09	39.13799 AU
direct	-8414 Jan 14 j 14:10	2°♓01'22	
evening set	-8414 Apr 12 j 10:55	3°♓23'34	
max. Earth dist.	-8414 Apr 25 j 08:07	3°♓44'21	41.01694 AU
conjunction	-8414 Apr 28 j 14:16	3°♓49'40	0°17'12
minimum elong	-8414 Apr 28 j 14:16	3°♓49'40	0°16'54
morning rise	-8414 May 14 j 14:42	4°♓15'36	
retrograde	-8414 Aug 07 j 11:01	5°♓35'53	
opposition	-8414 Oct 25 j 15:26	4°♓29'37	0°30'21
min. Earth dist.	-8414 Oct 28 j 14:05	4°♓25'45	38.89482 AU
direct	-8413 Jan 16 j 02:25	3°♓20'46	
evening set	-8413 Apr 14 j 02:36	4°♓43'39	
max. Earth dist.	-8413 Apr 26 j 23:20	5°♓04'33	40.77218 AU

Attention, astronomical year style is used: The year -8413 in astronomical counting style is the year 8414 BCE in historical counting style.

conjunction	-8413 Apr 30 j 05:37	5°♓09'55	0°41'05
minimum elong	-8413 Apr 30 j 05:36	5°♓09'55	0°40'48
morning rise	-8413 May 16 j 05:25	5°♓36'00	
retrograde	-8413 Aug 09 j 00:40	6°♓56'54	
opposition	-8413 Oct 27 j 05:04	5°♓50'21	0°55'38
min. Earth dist.	-8413 Oct 30 j 04:11	5°♓46'26	38.64865 AU
direct	-8412 Jan 17 j 16:24	4°♓41'09	
evening set	-8412 Apr 14 j 19:12	6°♓04'46	
max. Earth dist.	-8412 Apr 27 j 12:50	6°♓25'36	40.52437 AU
conjunction	-8412 Apr 30 j 21:19	6°♓31'10	1°05'16
minimum elong	-8412 Apr 30 j 21:16	6°♓31'10	1°04'59
morning rise	-8412 May 16 j 20:25	6°♓57'23	
retrograde	-8412 Aug 09 j 18:33	8°♓18'56	
opposition	-8412 Oct 27 j 19:12	7°♓12'04	1°21'13
min. Earth dist.	-8412 Oct 30 j 19:27	7°♓08'04	38.39970 AU
direct	-8411 Jan 18 j 03:36	6°♓02'30	
evening set	-8411 Apr 16 j 12:11	7°♓26'52	
max. Earth dist.	-8411 Apr 29 j 04:36	7°♓47'47	40.27363 AU
conjunction	-8411 May 02 j 13:24	7°♓53'24	1°29'42
minimum elong	-8411 May 02 j 13:21	7°♓53'24	1°29'26
morning rise	-8411 May 18 j 11:12	8°♓19'44	
retrograde	-8411 Aug 11 j 11:04	9°♓41'58	
opposition	-8411 Oct 29 j 09:52	8°♓34'46	1°47'06
min. Earth dist.	-8411 Nov 01 j 11:30	8°♓30'40	38.14807 AU
direct	-8410 Jan 19 j 17:22	7°♓24'49	
evening set	-8410 Apr 18 j 06:02	8°♓49'59	
max. Earth dist.	-8410 Apr 30 j 19:56	9°♓10'52	40.02060 AU
conjunction	-8410 May 04 j 05:48	9°♓16'36	1°54'24
minimum elong	-8410 May 04 j 05:44	9°♓16'36	1°54'07
morning rise	-8410 May 20 j 02:22	9°♓43'03	
retrograde	-8410 Aug 13 j 04:16	11°♓05'58	
opposition	-8410 Oct 31 j 00:39	9°♓58'26	2°13'15
min. Earth dist.	-8410 Nov 03 j 02:18	9°♓54'18	37.89456 AU
direct	-8409 Jan 21 j 09:07	8°♓48'05	
evening set	-8409 Apr 20 j 00:29	10°♓14'05	
max. Earth dist.	-8409 May 02 j 11:32	10°♓34'56	39.76565 AU
conjunction	-8409 May 05 j 22:41	10°♓40'48	2°19'20
minimum elong	-8409 May 05 j 22:37	10°♓40'48	2°19'06
morning rise	-8409 May 21 j 17:29	11°♓07'19	
retrograde	-8409 Aug 14 j 20:23	12°♓30'59	
opposition	-8409 Nov 01 j 16:07	11°♓23'06	2°39'41
min. Earth dist.	-8409 Nov 04 j 19:25	11°♓18'51	37.63963 AU
direct	-8408 Jan 23 j 01:39	10°♓12'21	
evening set	-8408 Apr 20 j 19:43	11°♓39'13	
max. Earth dist.	-8408 May 03 j 05:11	12°♓00'07	39.50962 AU
conjunction	-8408 May 06 j 15:57	12°♓06'01	2°44'31
minimum elong	-8408 May 06 j 15:51	12°♓06'00	2°44'17
morning rise	-8408 May 22 j 08:41	12°♓32'36	
retrograde	-8408 Aug 15 j 11:54	13°♓57'04	
opposition	-8408 Nov 02 j 07:58	12°♓48'49	3°06'23
min. Earth dist.	-8408 Nov 05 j 10:53	12°♓44'34	37.38402 AU
direct	-8407 Jan 23 j 18:46	11°♓37'40	
evening set	-8407 Apr 22 j 15:48	13°♓05'27	
max. Earth dist.	-8407 May 04 j 21:21	13°♓26'16	39.25314 AU
conjunction	-8407 May 08 j 09:36	13°♓32'18	3°09'55
minimum elong	-8407 May 08 j 09:29	13°♓32'18	3°09'43
morning rise	-8407 May 24 j 00:02	13°♓58'57	
retrograde	-8407 Aug 17 j 06:15	15°♓24'16	
opposition	-8407 Nov 04 j 00:23	14°♓15'40	3°33'19
min. Earth dist.	-8407 Nov 07 j 04:14	14°♓11'20	37.12857 AU
direct	-8406 Jan 25 j 08:49	13°♓04'07	
evening set	-8406 Apr 24 j 12:23	14°♓32'53	
max. Earth dist.	-8406 May 06 j 16:09	14°♓53'44	38.99686 AU
conjunction	-8406 May 10 j 03:41	14°♓59'46	3°35'31
minimum elong	-8406 May 10 j 03:33	14°♓59'46	3°35'19
morning rise	-8406 May 25 j 15:16	15°♓26'27	
retrograde	-8406 Aug 19 j 00:06	16°♓52'41	
opposition	-8406 Nov 05 j 17:21	15°♓43'44	4°00'29
min. Earth dist.	-8406 Nov 08 j 21:19	15°♓39'23	36.87349 AU
direct	-8405 Jan 27 j 00:49	14°♓31'49	
evening set	-8405 Apr 26 j 10:11	16°♓01'38	
max. Earth dist.	-8405 May 08 j 09:44	16°♓22'22	38.74115 AU
conjunction	-8405 May 11 j 22:16	16°♓28'32	4°01'19
minimum elong	-8405 May 11 j 22:08	16°♓28'31	4°01'08
morning rise	-8405 May 27 j 06:57	16°♓55'12	
retrograde	-8405 Aug 20 j 21:41	18°♓22'25	
opposition	-8405 Nov 07 j 10:36	17°♓13'08	4°27'51
min. Earth dist.	-8405 Nov 10 j 14:29	17°♓08'46	36.61919 AU
direct	-8404 Jan 28 j 16:12	16°♓00'50	
evening set	-8404 Apr 27 j 08:47	17°♓31'47	
max. Earth dist.	-8404 May 09 j 05:00	17°♓52'28	38.48583 AU
conjunction	-8404 May 12 j 17:36	17°♓58'41	4°27'18
minimum elong	-8404 May 12 j 17:26	17°♓58'40	4°27'06
morning rise	-8404 May 27 j 22:41	18°♓25'21	
retrograde	-8404 Aug 21 j 17:55	19°♓53'36	
opposition	-8404 Nov 08 j 04:44	18°♓44'00	4°55'26
min. Earth dist.	-8404 Nov 11 j 09:51	18°♓39'32	36.36528 AU
direct	-8403 Jan 29 j 09:06	17°♓31'20	
evening set	-8403 Apr 29 j 08:18	19°♓03'28	
max. Earth dist.	-8403 May 11 j 00:40	19°♓24'03	38.23077 AU
conjunction	-8403 May 14 j 13:13	19°♓30'19	4°53'26
minimum elong	-8403 May 14 j 13:02	19°♓30'18	4°53'16
morning rise	-8403 May 29 j 14:33	19°♓56'57	
retrograde	-8403 Aug 23 j 14:09	21°♓26'18	
opposition	-8403 Nov 09 j 23:19	20°♓16'23	5°23'11
min. Earth dist.	-8403 Nov 13 j 03:56	20°♓11'55	36.11147 AU
direct	-8402 Jan 31 j 05:01	19°♓03'21	
evening set	-8402 May 01 j 08:53	20°♓36'44	
max. Earth dist.	-8402 May 12 j 19:41	20°♓57'06	37.97528 AU
conjunction	-8402 May 16 j 09:34	21°♓03'31	5°19'42
minimum elong	-8402 May 16 j 09:22	21°♓03'31	5°19'33
morning rise	-8402 May 31 j 06:40	21°♓30'05	
retrograde	-8402 Aug 25 j 10:56	23°♓00'35	
opposition	-8402 Nov 11 j 18:30	21°♓50'20	5°51'07
min. Earth dist.	-8402 Nov 15 j 00:39	21°♓45'45	35.85726 AU
direct	-8401 Feb 01 j 23:13	20°♓36'56	
evening set	-8401 May 03 j 10:28	22°♓11'36	
max. Earth dist.	-8401 May 14 j 17:12	22°♓31'50	37.71909 AU
conjunction	-8401 May 18 j 06:36	22°♓38'18	5°46'07
minimum elong	-8401 May 18 j 06:23	22°♓38'17	5°46'00
morning rise	-8401 Jun 01 j 22:59	23°♓04'46	
retrograde	-8401 Aug 27 j 07:10	24°♓36'29	
opposition	-8401 Nov 13 j 14:27	23°♓25'52	6°19'12
min. Earth dist.	-8401 Nov 16 j 20:30	23°♓21'16	35.60217 AU
direct	-8400 Feb 03 j 18:50	22°♓12'04	
evening set	-8400 May 04 j 13:15	23°♓48'05	
max. Earth dist.	-8400 May 15 j 13:06	24°♓08'00	37.46187 AU
conjunction	-8400 May 19 j 04:07	24°♓14'39	6°12'39
minimum elong	-8400 May 19 j 03:53	24°♓14'38	6°12'32
morning rise	-8400 Jun 02 j 15:32	24°♓40'59	
retrograde	-8400 Aug 28 j 05:50	26°♓13'57	

Attention, astronomical year style is used: The year -8400 in astronomical counting style is the year 8401 BCE in historical counting style.

opposition	-8400 Nov 14 j 11:00	25°♓02'59	6°47'25
min. Earth dist.	-8400 Nov 17 j 17:55	24°♓58'18	35.34633 AU
direct	-8399 Feb 04 j 12:42	23°♓48'45	
evening set	-8399 May 06 j 16:53	25°♓26'10	
max. Earth dist.	-8399 May 17 j 11:42	25°♓45'53	37.20376 AU
conjunction	-8399 May 21 j 02:23	25°♓52'33	6°39'16
minimum elong	-8399 May 21 j 02:07	25°♓52'32	6°39'10
morning rise	-8399 Jun 04 j 08:06	26°♓18'43	
retrograde	-8399 Aug 30 j 04:28	27°♓53'01	
opposition	-8399 Nov 16 j 08:19	26°♓41'38	7°15'44
min. Earth dist.	-8399 Nov 19 j 15:54	26°♓36'53	35.08984 AU