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

evening set	-8400 Jan 12 j 19:13	7°♐30'57	
conjunction	-8400 Jan 30 j 19:38	9°♐55'17	-1°47'29
minimum elong	-8400 Jan 30 j 19:34	9°♐55'16	1°47'59
max. Earth dist.	-8400 Jan 31 j 13:10	10°♐01'10	9.79873 AU
morning rise	-8400 Feb 17 j 23:32	12°♐20'44	
retrograde	-8400 Jun 04 j 19:39	21°♐04'51	
opposition	-8400 Aug 10 j 17:57	17°♐32'15	-2°30'10
min. Earth dist.	-8400 Aug 10 j 02:55	17°♐35'25	7.79964 AU
direct	-8400 Oct 15 j 07:41	14°♐03'01	
evening set	-8399 Jan 27 j 17:13	22°♐31'34	
conjunction	-8399 Feb 14 j 19:18	24°♐56'03	-2°09'04
minimum elong	-8399 Feb 14 j 19:15	24°♐56'02	2°09'36
max. Earth dist.	-8399 Feb 15 j 16:51	25°♐03'16	9.80814 AU
morning rise	-8399 Mar 04 j 23:38	27°♐21'12	
	-8399 Mar 25 j 21:44	0°♑	
retrograde	-8399 Jun 20 j 00:45	6°♑00'31	
opposition	-8399 Aug 25 j 14:42	2°♑28'29	-2°51'42
min. Earth dist.	-8399 Aug 24 j 21:32	2°♑32'06	7.83101 AU
	-8399 Sep 27 j 07:52	30°℞♐	
direct	-8399 Oct 30 j 11:23	28°♐58'29	
	-8399 Dec 02 j 12:09	0°♑	
evening set	-8398 Feb 12 j 15:04	7°♑27'10	
conjunction	-8398 Mar 02 j 17:45	9°♑50'46	-2°21'52
minimum elong	-8398 Mar 02 j 17:43	9°♑50'45	2°22'26
max. Earth dist.	-8398 Mar 03 j 17:50	9°♑58'46	9.86001 AU
morning rise	-8398 Mar 20 j 21:20	12°♑14'32	
retrograde	-8398 Jul 04 j 20:58	20°♑44'54	
opposition	-8398 Sep 09 j 06:18	17°♑13'58	-3°01'31
min. Earth dist.	-8398 Sep 08 j 12:05	17°♑17'48	7.90275 AU
direct	-8398 Nov 14 j 15:10	13°♑43'32	
evening set	-8397 Feb 28 j 08:14	22°♑08'47	
conjunction	-8397 Mar 18 j 10:40	24°♑30'35	-2°25'17
minimum elong	-8397 Mar 18 j 10:41	24°♑30'35	2°25'49
max. Earth dist.	-8397 Mar 19 j 11:29	24°♑38'44	9.95020 AU
morning rise	-8397 Apr 05 j 12:37	26°♑52'05	
	-8397 May 01 j 02:00	0°♒	
retrograde	-8397 Jul 19 j 04:54	5°♒10'16	
opposition	-8397 Sep 23 j 14:25	1°♒40'50	-2°59'29
min. Earth dist.	-8397 Sep 22 j 20:08	1°♒44'39	8.00932 AU
	-8397 Oct 14 j 15:54	30°℞♑	
direct	-8397 Nov 29 j 14:39	28°♑10'22	
	-8396 Jan 14 j 01:39	0°♒	
evening set	-8396 Mar 14 j 16:34	6°♒29'00	
conjunction	-8396 Apr 01 j 18:01	8°♒48'21	-2°19'35
minimum elong	-8396 Apr 01 j 18:04	8°♒48'22	2°20'03
max. Earth dist.	-8396 Apr 02 j 17:56	8°♒56'06	10.07192 AU
morning rise	-8396 Apr 19 j 17:38	11°♒06'59	
	-8396 May 22 j 14:31	15°♒	
retrograde	-8396 Aug 01 j 01:22	19°♒10'59	
opposition	-8396 Oct 06 j 13:49	15°♒43'21	-2°46'38
min. Earth dist.	-8396 Oct 05 j 20:00	15°♒47'01	8.14308 AU
	-8396 Oct 15 j 09:48	15°℞♒	
direct	-8396 Dec 13 j 07:11	12°♒13'15	
	-8395 Feb 08 j 20:22	15°♒	
evening set	-8395 Mar 29 j 13:01	20°♒22'51	
conjunction	-8395 Apr 16 j 12:49	22°♒39'17	-2°05'50
minimum elong	-8395 Apr 16 j 12:52	22°♒39'19	2°06'14
max. Earth dist.	-8395 Apr 17 j 10:56	22°♒46'20	10.21678 AU
morning rise	-8395 May 04 j 09:28	24°♒54'39	
	-8395 Jun 19 j 08:46	0°♓	
retrograde	-8395 Aug 14 j 10:45	2°♓43'44	
	-8395 Oct 11 j 11:50	30°℞♒	
min. Earth dist.	-8395 Oct 19 j 11:15	29°♒21'24	8.29543 AU
opposition	-8395 Oct 20 j 03:42	29°♒18'03	-2°24'46
direct	-8395 Dec 27 j 14:22	25°♒48'43	
	-8394 Mar 10 j 14:24	0°♓	
evening set	-8394 Apr 12 j 20:08	3°♓47'46	
conjunction	-8394 Apr 30 j 17:40	6°♓01'04	-1°45'36
minimum elong	-8394 Apr 30 j 17:44	6°♓01'05	1°45'54
max. Earth dist.	-8394 May 01 j 13:08	6°♓07'09	10.37587 AU
morning rise	-8394 May 18 j 10:58	8°♓13'00	
retrograde	-8394 Aug 27 j 08:44	15°♓47'26	
opposition	-8394 Nov 02 j 07:55	12°♓23'48	-1°56'04
min. Earth dist.	-8394 Nov 01 j 18:07	12°♓26'34	8.45761 AU
direct	-8393 Jan 10 j 12:06	8°♓55'31	
evening set	-8393 Apr 26 j 13:35	16°♓43'28	
conjunction	-8393 May 14 j 08:11	18°♓53'30	-1°20'36
minimum elong	-8393 May 14 j 08:15	18°♓53'31	1°20'46
max. Earth dist.	-8393 May 14 j 23:46	18°♓58'17	10.54032 AU
morning rise	-8393 May 31 j 21:48	21°♓02'01	
retrograde	-8393 Sep 08 j 18:50	28°♓22'55	
opposition	-8393 Nov 15 j 03:12	25°♓01'21	-1°22'46
min. Earth dist.	-8393 Nov 14 j 17:10	25°♓03'19	8.62114 AU
direct	-8392 Jan 24 j 00:30	21°♓34'18	
evening set	-8392 May 08 j 17:48	29°♓11'19	
	-8392 May 15 j 13:23	0°♈	
conjunction	-8392 May 26 j 08:47	1°♈18'08	-0°52'32
minimum elong	-8392 May 26 j 08:49	1°♈18'08	0°52'35
max. Earth dist.	-8392 May 26 j 19:18	1°♈21'18	10.70190 AU
morning rise	-8392 Jun 12 j 18:30	3°♈23'21	
retrograde	-8392 Sep 19 j 20:02	10°♈32'25	
opposition	-8392 Nov 26 j 14:19	7°♈12'44	-0°46'54
min. Earth dist.	-8392 Nov 26 j 08:04	7°♈13'56	8.77840 AU
direct	-8391 Feb 05 j 02:39	3°♈47'06	
evening set	-8391 May 21 j 09:45	11°♈13'51	
conjunction	-8391 Jun 07 j 20:41	13°♈17'36	-0°22'58
minimum elong	-8391 Jun 07 j 20:42	13°♈17'37	0°22'54
max. Earth dist.	-8391 Jun 08 j 01:44	13°♈19'06	10.85353 AU
morning rise	-8391 Jun 25 j 02:23	15°♈19'47	
retrograde	-8391 Oct 01 j 12:30	22°♈18'59	
opposition	-8391 Dec 08 j 18:18	19°♈00'57	-0°10'14
min. Earth dist.	-8391 Dec 08 j 15:18	19°♈01'31	8.92274 AU
direct	-8390 Feb 17 j 20:03	15°♈36'46	
asc. node	-8390 Mar 24 j 04:29	16°♈32'43	
evening set	-8390 Jun 02 j 14:40	22°♈54'21	
conjunction	-8390 Jun 19 j 21:25	24°♈55'18	0°06'52
minimum elong	-8390 Jun 19 j 21:25	24°♈55'18	0°07'03
behind sun begin	-8390 Jun 19 j 14:52	24°♈53'24	
behind sun end	-8390 Jun 20 j 03:58	24°♈57'12	
max. Earth dist.	-8390 Jun 19 j 22:09	24°♈55'30	10.98901 AU
morning rise	-8390 Jul 06 j 22:55	26°♈54'44	
	-8390 Aug 04 j 14:24	0°♉	
retrograde	-8390 Oct 13 j 01:00	3°♉46'13	
opposition	-8390 Dec 20 j 16:33	0°♉29'33	0°25'45
min. Earth dist.	-8390 Dec 20 j 16:52	0°♉29'29	9.04837 AU
	-8390 Dec 27 j 06:29	30°℞♈	
direct	-8389 Mar 02 j 05:19	27°♈06'46	
	-8389 May 03 j 15:07	0°♉	
evening set	-8389 Jun 14 j 10:27	4°♉16'29	

Attention, astronomical year style is used: The year -8389 in astronomical counting style is the year 8390 BCE in historical counting style.

conjunction	-8389 Jul 01 j 12:51	6°♉14'58	0°35'38	
minimum elong	-8389 Jul 01 j 12:49	6°♉14'57	0°35'55	
max. Earth dist.	-8389 Jul 01 j 09:45	6°♉14'04	11.10313 AU	
morning rise	-8389 Jul 18 j 10:03	8°♉12'00		
retrograde	-8389 Oct 24 j 08:47	14°♉57'53		
opposition	-8388 Jan 01 j 10:29	11°♉42'17	0°59'52	
min. Earth dist.	-8388 Jan 01 j 15:02	11°♉41'26	9.15077 AU	
direct	-8388 Mar 13 j 05:32	8°♉20'47		
	-8388 Jun 21 j 08:45	15°♉		
evening set	-8388 Jun 24 j 22:40	15°♉24'07		
conjunction	-8388 Jul 11 j 20:36	17°♉20'29	1°02'33	
minimum elong	-8388 Jul 11 j 20:33	17°♉20'28	1°02'55	
max. Earth dist.	-8388 Jul 11 j 12:46	17°♉18'13	11.19199 AU	
morning rise	-8388 Jul 28 j 13:53	19°♉15'35		
retrograde	-8388 Nov 03 j 12:59	25°♉58'00		
opposition	-8387 Jan 12 j 01:33	22°♉43'06	1°31'06	
min. Earth dist.	-8387 Jan 12 j 10:16	22°♉41'30	9.22647 AU	
direct	-8387 Mar 25 j 01:21	19°♉22'41		
evening set	-8387 Jul 06 j 04:46	26°♉21'10		
conjunction	-8387 Jul 22 j 22:27	28°♉15'51	1°26'48	
minimum elong	-8387 Jul 22 j 22:25	28°♉15'50	1°27'14	
max. Earth dist.	-8387 Jul 22 j 09:57	28°♉12'15	11.25261 AU	
	-8387 Aug 07 j 02:44	0°♊		
morning rise	-8387 Aug 08 j 12:21	0°♊09'29		
retrograde	-8387 Nov 14 j 16:25	6°♊50'33		
opposition	-8386 Jan 23 j 14:50	3°♊35'56	1°58'40	
min. Earth dist.	-8386 Jan 24 j 02:44	3°♊33'46	9.27259 AU	
direct	-8386 Apr 05 j 16:53	0°♊16'25		
evening set	-8386 Jul 17 j 06:36	7°♊11'38		
conjunction	-8386 Aug 02 j 20:41	9°♊05'08	1°47'44	
minimum elong	-8386 Aug 02 j 20:38	9°♊05'07	1°48'13	
max. Earth dist.	-8386 Aug 02 j 05:01	9°♊00'37	11.28252 AU	
morning rise	-8386 Aug 19 j 07:31	10°♊57'47		
retrograde	-8386 Nov 25 j 21:42	17°♊39'34		
opposition	-8385 Feb 04 j 03:46	14°♊24'54	2°21'52	
min. Earth dist.	-8385 Feb 04 j 18:09	14°♊22'17	9.28699 AU	
direct	-8385 Apr 17 j 05:14	11°♊06'03		
evening set	-8385 Jul 28 j 05:55	17°♊59'40		
conjunction	-8385 Aug 13 j 17:00	19°♊52'31	2°04'46	
minimum elong	-8385 Aug 13 j 16:57	19°♊52'30	2°05'18	
max. Earth dist.	-8385 Aug 12 j 22:42	19°♊47'15	11.28027 AU	
morning rise	-8385 Aug 30 j 01:28	21°♊44'45		
retrograde	-8385 Dec 07 j 06:25	28°♊29'17		
opposition	-8384 Feb 15 j 18:16	25°♊14'14	2°40'05	
min. Earth dist.	-8384 Feb 16 j 11:31	25°♊11'06	9.26908 AU	
direct	-8384 Apr 27 j 14:43	21°♊55'50		
evening set	-8384 Aug 07 j 04:22	28°♊49'25		
	-8384 Aug 17 j 11:04	0°♋		
conjunction	-8384 Aug 23 j 13:05	0°♋42'12	2°17'23	
minimum elong	-8384 Aug 23 j 13:03	0°♋42'11	2°17'56	
max. Earth dist.	-8384 Aug 22 j 15:41	0°♋36'00	11.24626 AU	
morning rise	-8384 Sep 08 j 20:16	2°♋34'38		
retrograde	-8384 Dec 17 j 16:49	9°♋23'52		
opposition	-8383 Feb 26 j 11:28	6°♋08'03	2°52'46	
min. Earth dist.	-8383 Feb 27 j 07:13	6°♋04'27	9.21993 AU	
direct	-8383 May 09 j 00:25	2°♋49'48		
evening set	-8383 Aug 18 j 03:51	9°♋44'57		
max. Earth dist.	-8383 Sep 02 j 11:56	11°♋31'26	11.18214 AU	
conjunction	-8383 Sep 03 j 11:13	11°♋38'14	2°25'08	
minimum elong	-8383 Sep 03 j 11:12	11°♋38'13	2°25'40	
morning rise	-8383 Sep 19 j 18:09	13°♋31'26		
retrograde	-8383 Dec 29 j 10:50	20°♋27'11		
opposition	-8382 Mar 10 j 08:20	17°♋10'13	2°59'19	
min. Earth dist.	-8382 Mar 11 j 05:01	17°♋06'27	9.14149 AU	
direct	-8382 May 20 j 13:17	13°♋51'54		
evening set	-8382 Aug 29 j 05:51	20°♋50'02		
conjunction	-8382 Sep 14 j 13:07	22°♋44'26	2°27'35	
minimum elong	-8382 Sep 14 j 13:08	22°♋44'26	2°28'07	
max. Earth dist.	-8382 Sep 13 j 14:01	22°♋37'37	11.09015 AU	
morning rise	-8382 Sep 30 j 20:42	24°♋39'02		
	-8382 Nov 24 j 18:05	0°♌		
retrograde	-8381 Jan 10 j 11:30	1°♌42'58		
	-8381 Feb 27 j 20:45	30°℞♋		
opposition	-8381 Mar 22 j 10:33	28°♋24'34	2°59'16	
min. Earth dist.	-8381 Mar 23 j 06:46	28°♋20'51	9.03644 AU	
direct	-8381 Jun 01 j 03:06	25°♋05'56		
	-8381 Aug 21 j 10:46	0°♌		
evening set	-8381 Sep 09 j 12:13	2°♌08'28		
conjunction	-8381 Sep 25 j 20:25	4°♌04'35	2°24'22	
minimum elong	-8381 Sep 25 j 20:27	4°♌04'35	2°24'52	
max. Earth dist.	-8381 Sep 24 j 21:42	3°♌57'49	10.97348 AU	
morning rise	-8381 Oct 12 j 05:52	6°♌01'12		
retrograde	-8380 Jan 22 j 21:42	13°♌14'56		
opposition	-8380 Apr 02 j 19:15	9°♌54'49	2°52'09	
min. Earth dist.	-8380 Apr 03 j 14:40	9°♌51'12	8.90848 AU	
direct	-8380 Jun 11 j 22:10	6°♌35'38		
evening set	-8380 Sep 20 j 01:01	13°♌43'58		
	-8380 Sep 30 j 15:01	15°♌		
conjunction	-8380 Oct 06 j 11:13	15°♌42'24	2°15'14	
minimum elong	-8380 Oct 06 j 11:16	15°♌42'25	2°15'40	
max. Earth dist.	-8380 Oct 05 j 12:45	15°♌35'36	10.83634 AU	
morning rise	-8380 Oct 22 j 23:54	17°♌41'40		
retrograde	-8379 Feb 03 j 16:40	25°♌06'31		
opposition	-8379 Apr 15 j 11:10	21°♌44'33	2°37'38	
min. Earth dist.	-8379 Apr 16 j 05:45	21°♌41'03	8.76238 AU	
direct	-8379 Jun 23 j 21:49	18°♌24'36		
evening set	-8379 Oct 01 j 21:53	25°♌40'06		
conjunction	-8379 Oct 18 j 11:21	27°♌41'25	2°00'01	
minimum elong	-8379 Oct 18 j 11:24	27°♌41'26	2°00'23	
max. Earth dist.	-8379 Oct 17 j 14:52	27°♌35'07	10.68387 AU	
morning rise	-8379 Nov 04 j 04:20	29°♌43'53		
	-8379 Nov 06 j 10:00	0°♍		
retrograde	-8378 Feb 16 j 20:53	7°♍21'04		
opposition	-8378 Apr 28 j 11:19	3°♍57'05	2°15'36	
min. Earth dist.	-8378 Apr 29 j 03:42	3°♍53'57	8.60380 AU	
direct	-8378 Jul 06 j 05:45	0°♍36'13		
evening set	-8378 Oct 14 j 04:41	8°♍00'07		
conjunction	-8378 Oct 30 j 22:31	10°♍04'50	1°38'52	
minimum elong	-8378 Oct 30 j 22:35	10°♍04'51	1°39'06	
max. Earth dist.	-8378 Oct 30 j 05:44	9°♍59'35	10.52211 AU	
morning rise	-8378 Nov 16 j 20:34	12°♍10'57		
retrograde	-8377 Mar 02 j 13:58	20°♍01'16		
opposition	-8377 May 11 j 20:16	16°♍35'15	1°46'16	
min. Earth dist.	-8377 May 12 j 08:58	16°♍32'48	8.43952 AU	
direct	-8377 Jul 18 j 22:59	13°♍13'22		
evening set	-8377 Oct 26 j 23:26	20°♍46'43		
conjunction	-8377 Nov 12 j 22:25	22°♍55'12	1°12'10	
minimum elong	-8377 Nov 12 j 22:29	22°♍55'13	1°12'18	
max. Earth dist.	-8377 Nov 12 j 10:07	22°♍51'17	10.35836 AU	
morning rise	-8377 Nov 30 j 02:13	25°♍05'18		
	-8376 Jan 13 j 01:00	0°♎		
retrograde	-8376 Mar 15 j 19:12	3°♎08'59		

Attention, astronomical year style is used: The year -8376 in astronomical counting style is the year 8377 BCE in historical counting style.

	-8376 May 20 j 13:56	30°℞♍	
opposition	-8376 May 24 j 14:15	29°♍41'02	1°10'18
min. Earth dist.	-8376 May 24 j 22:24	29°♍39'26	8.27744 AU
direct	-8376 Jul 30 j 23:20	26°♍18'01	
	-8376 Oct 04 j 19:01	0°♎	
evening set	-8376 Nov 08 j 07:36	4°♎01'40	
conjunction	-8376 Nov 25 j 12:08	6°♎14'02	0°40'48
minimum elong	-8376 Nov 25 j 12:10	6°♎14'03	0°40'48
max. Earth dist.	-8376 Nov 25 j 04:19	6°♎11'31	10.20078 AU
morning rise	-8376 Dec 12 j 22:03	8°♎28'14	
retrograde	-8375 Mar 30 j 10:45	16°♎44'49	
opposition	-8375 Jun 07 j 17:06	13°♎15'07	0°29'04
min. Earth dist.	-8375 Jun 07 j 20:39	13°♎14'24	8.12610 AU
direct	-8375 Aug 13 j 10:07	9°♎50'53	
evening set	-8375 Nov 22 j 06:07	17°♎45'17	
conjunction	-8375 Dec 09 j 16:10	20°♎01'27	0°06'13
minimum elong	-8375 Dec 09 j 16:10	20°♎01'27	0°06'04
behind sun begin	-8375 Dec 09 j 09:18	19°♎59'13	
behind sun end	-8375 Dec 09 j 23:02	20°♎03'40	
max. Earth dist.	-8375 Dec 09 j 13:26	20°♎00'35	10.05813 AU
morning rise	-8375 Dec 27 j 07:58	22°♎19'30	
desc. node	-8374 Feb 13 j 07:18	27°♎47'38	
	-8374 Mar 15 j 08:02	0°♏	
retrograde	-8374 Apr 14 j 10:57	0°♏47'39	
	-8374 May 14 j 16:40	30°℞♎	
opposition	-8374 Jun 22 j 03:55	27°♎16'31	-0°15'22
min. Earth dist.	-8374 Jun 22 j 03:00	27°♎16'42	7.99455 AU
direct	-8374 Aug 27 j 08:12	23°♎51'02	
	-8374 Nov 21 j 12:33	0°♏	
evening set	-8374 Dec 06 j 19:02	1°♏56'00	
conjunction	-8374 Dec 24 j 10:18	4°♏15'33	-0°29'50
minimum elong	-8374 Dec 24 j 10:16	4°♏15'32	0°30'06
max. Earth dist.	-8374 Dec 24 j 13:27	4°♏16'36	9.93944 AU
morning rise	-8373 Jan 11 j 07:16	6°♏36'57	
	-8373 Apr 13 j 11:57	15°♏	
retrograde	-8373 Apr 29 j 17:36	15°♏14'18	
	-8373 May 15 j 23:04	15°℞♏	
opposition	-8373 Jul 06 j 21:19	11°♏42'08	-1°00'12
min. Earth dist.	-8373 Jul 06 j 15:52	11°♏43'16	7.89158 AU
direct	-8373 Sep 10 j 16:07	8°♏15'26	
	-8373 Dec 10 j 05:32	15°♏	
evening set	-8373 Dec 21 j 21:17	16°♏30'00	
conjunction	-8372 Jan 08 j 17:05	18°♏52'14	-1°04'42
minimum elong	-8372 Jan 08 j 17:01	18°♏52'13	1°05'05
max. Earth dist.	-8372 Jan 09 j 02:29	18°♏55'23	9.85295 AU
morning rise	-8372 Jan 26 j 18:01	21°♏16'07	
retrograde	-8372 May 14 j 04:18	29°♏59'18	
opposition	-8372 Jul 20 j 19:05	26°♏26'36	-1°42'04
min. Earth dist.	-8372 Jul 20 j 09:15	26°♏28'39	7.82452 AU
direct	-8372 Sep 24 j 08:40	22°♏58'46	
	-8372 Dec 26 j 00:14	0°♐	
evening set	-8371 Jan 05 j 10:36	1°♐21'07	
conjunction	-8371 Jan 23 j 09:50	3°♐45'03	-1°35'51
minimum elong	-8371 Jan 23 j 09:46	3°♐45'01	1°36'19
max. Earth dist.	-8371 Jan 24 j 01:23	3°♐50'17	9.80514 AU
morning rise	-8371 Feb 10 j 13:12	6°♐10'18	
retrograde	-8371 May 29 j 15:11	14°♐55'08	
opposition	-8371 Aug 04 j 18:27	11°♐22'26	-2°17'35
min. Earth dist.	-8371 Aug 04 j 04:29	11°♐25'22	7.79851 AU
direct	-8371 Oct 09 j 07:46	7°♐53'40	
evening set	-8370 Jan 21 j 06:59	16°♐21'02	

conjunction	-8370 Feb 08 j 08:28	18°♐45'34	-2°00'44
minimum elong	-8370 Feb 08 j 08:24	18°♐45'33	2°01'17
max. Earth dist.	-8370 Feb 09 j 05:28	18°♐52'37	9.80004 AU
morning rise	-8370 Feb 26 j 12:46	21°♐10'59	
retrograde	-8370 Jun 13 j 22:36	29°♐52'55	
opposition	-8370 Aug 19 j 16:42	26°♐20'44	-2°43'45
min. Earth dist.	-8370 Aug 18 j 23:15	26°♐24'25	7.81578 AU
direct	-8370 Oct 24 j 10:36	22°♐51'17	
	-8369 Jan 26 j 20:29	0°♑	
evening set	-8369 Feb 06 j 05:34	1°♑20'14	
conjunction	-8369 Feb 24 j 08:12	3°♑44'17	-2°17'26
minimum elong	-8369 Feb 24 j 08:09	3°♑44'16	2°18'00
max. Earth dist.	-8369 Feb 25 j 09:10	3°♑52'37	9.83830 AU
morning rise	-8369 Mar 14 j 12:11	6°♑08'42	
retrograde	-8369 Jun 28 j 23:04	14°♑43'18	
opposition	-8369 Sep 03 j 10:55	11°♑12'09	-2°58'38
min. Earth dist.	-8369 Sep 02 j 15:21	11°♑16'16	7.87496 AU
direct	-8369 Nov 08 j 14:07	7°♑42'18	
evening set	-8368 Feb 22 j 01:40	16°♑09'11	
conjunction	-8368 Mar 11 j 04:25	18°♑31'46	-2°24'53
minimum elong	-8368 Mar 11 j 04:24	18°♑31'46	2°25'25
max. Earth dist.	-8368 Mar 12 j 07:18	18°♑40'38	9.91693 AU
morning rise	-8368 Mar 29 j 07:00	20°♑54'13	
retrograde	-8368 Jul 12 j 13:18	29°♑17'43	
opposition	-8368 Sep 16 j 22:33	25°♑48'03	-3°01'35
min. Earth dist.	-8368 Sep 16 j 02:28	25°♑52'15	7.97141 AU
direct	-8368 Nov 22 j 14:36	22°♑18'07	
	-8367 Mar 03 j 09:43	0°♒	
evening set	-8367 Mar 08 j 14:24	0°♒39'30	
conjunction	-8367 Mar 26 j 16:24	2°♒59'50	-2°22'58
minimum elong	-8367 Mar 26 j 16:26	2°♒59'51	2°23'28
max. Earth dist.	-8367 Mar 27 j 19:08	3°♒08'32	10.02981 AU
morning rise	-8367 Apr 13 j 16:51	5°♒19'35	
retrograde	-8367 Jul 26 j 16:16	13°♒29'27	
min. Earth dist.	-8367 Sep 30 j 06:59	10°♒05'28	8.09779 AU
opposition	-8367 Oct 01 j 01:57	10°♒01'32	-2°53'09
direct	-8367 Dec 07 j 09:42	6°♒31'51	
evening set	-8366 Mar 23 j 16:05	14°♒44'57	
	-8366 Mar 25 j 15:59	15°♒	
conjunction	-8366 Apr 10 j 16:38	17°♒02'30	-2°12'30
minimum elong	-8366 Apr 10 j 16:41	17°♒02'31	2°12'55
max. Earth dist.	-8366 Apr 11 j 16:58	17°♒10'18	10.16832 AU
morning rise	-8366 Apr 28 j 14:28	19°♒19'06	
retrograde	-8366 Aug 09 j 06:42	27°♒14'06	
opposition	-8366 Oct 14 j 19:54	23°♒48'08	-2°34'54
min. Earth dist.	-8366 Oct 14 j 03:22	23°♒51'31	8.24470 AU
direct	-8366 Dec 21 j 21:20	20°♒19'02	
evening set	-8365 Apr 07 j 05:05	28°♒22'08	
	-8365 Apr 20 j 07:04	0°♓	
conjunction	-8365 Apr 25 j 03:31	0°♓36'37	-1°54'51
minimum elong	-8365 Apr 25 j 03:35	0°♓36'38	1°55'10
max. Earth dist.	-8365 Apr 25 j 23:27	0°♓42'53	10.32243 AU
morning rise	-8365 May 12 j 22:20	2°♓49'53	
retrograde	-8365 Aug 22 j 08:10	10°♓30'02	
opposition	-8365 Oct 28 j 04:03	7°♓06'08	-2°08'52
min. Earth dist.	-8365 Oct 27 j 14:18	7°♓08'53	8.40241 AU
direct	-8364 Jan 05 j 00:34	3°♓37'54	
evening set	-8364 Apr 20 j 04:30	11°♓30'17	
conjunction	-8364 May 08 j 00:16	13°♓41'34	-1°31'41
minimum elong	-8364 May 08 j 00:19	13°♓41'36	1°31'53
max. Earth dist.	-8364 May 08 j 15:34	13°♓46'18	10.48302 AU

Attention, astronomical year style is used: The year -8364 in astronomical counting style is the year 8365 BCE in historical counting style.

morning rise	-8364 May 25 j 15:38	15°♓51'27	
retrograde	-8364 Sep 02 j 22:19	23°♓17'46	
opposition	-8364 Nov 09 j 03:08	19°♓55'50	-1°37'18
min. Earth dist.	-8364 Nov 08 j 16:09	19°♓58'01	8.56281 AU
direct	-8363 Jan 17 j 17:54	16°♓28'44	
evening set	-8363 May 03 j 14:17	24°♓10'13	
conjunction	-8363 May 21 j 06:52	26°♓18'20	-1°04'43
minimum elong	-8363 May 21 j 06:55	26°♓18'21	1°04'49
max. Earth dist.	-8363 May 21 j 17:59	26°♓21'43	10.64258 AU
morning rise	-8363 Jun 07 j 18:23	28°♓24'54	
	-8363 Jun 21 j 09:56	0°♈	
retrograde	-8363 Sep 15 j 04:37	5°♈38'51	
opposition	-8363 Nov 21 j 17:44	2°♈18'43	-1°02'18
min. Earth dist.	-8363 Nov 21 j 09:54	2°♈20'15	8.71893 AU
	-8363 Dec 24 j 11:45	30°℞♓	
direct	-8362 Jan 30 j 23:39	28°♓52'51	
	-8362 Mar 09 j 06:22	0°♈	
evening set	-8362 May 16 j 11:32	6°♈23'53	
conjunction	-8362 Jun 03 j 00:27	8°♈28'57	-0°35'37
minimum elong	-8362 Jun 03 j 00:29	8°♈28'58	0°35'36
max. Earth dist.	-8362 Jun 03 j 07:28	8°♈31'03	10.79430 AU
morning rise	-8362 Jun 20 j 07:51	10°♈32'24	
retrograde	-8362 Sep 27 j 01:25	17°♈35'43	
opposition	-8362 Dec 04 j 00:42	14°♈17'12	-0°25'48
min. Earth dist.	-8362 Dec 03 j 21:11	14°♈17'53	8.86432 AU
direct	-8361 Feb 12 j 20:03	10°♈52'34	
evening set	-8361 May 28 j 21:27	18°♈14'06	
conjunction	-8361 Jun 15 j 06:10	20°♈16'17	-0°05'49
minimum elong	-8361 Jun 15 j 06:10	20°♈16'17	0°05'42
behind sun begin	-8361 Jun 14 j 23:20	20°♈14'17	
behind sun end	-8361 Jun 15 j 12:59	20°♈18'16	
max. Earth dist.	-8361 Jun 15 j 07:58	20°♈16'47	10.93202 AU
morning rise	-8361 Jul 02 j 09:24	22°♈16'54	
asc. node	-8361 Aug 27 j 19:09	27°♈43'36	
retrograde	-8361 Oct 08 j 15:13	29°♈11'38	
opposition	-8361 Dec 16 j 01:33	25°♈54'27	0°10'39
min. Earth dist.	-8361 Dec 16 j 02:22	25°♈54'18	8.99329 AU
direct	-8360 Feb 25 j 09:13	22°♈31'00	
evening set	-8360 Jun 08 j 21:12	29°♈44'13	
	-8360 Jun 11 j 04:18	0°♉	
conjunction	-8360 Jun 26 j 01:25	1°♉43'48	0°23'36
minimum elong	-8360 Jun 26 j 01:24	1°♉43'47	0°23'50
max. Earth dist.	-8360 Jun 25 j 21:53	1°♉42'46	11.05062 AU
morning rise	-8360 Jul 13 j 00:35	3°♉41'55	
retrograde	-8360 Oct 18 j 23:10	10°♉30'13	
opposition	-8360 Dec 26 j 21:20	7°♉14'02	0°45'41
min. Earth dist.	-8360 Dec 27 j 01:38	7°♉13'14	9.10114 AU
direct	-8359 Mar 08 j 14:02	3°♉51'43	
evening set	-8359 Jun 20 j 12:29	10°♉57'59	
conjunction	-8359 Jul 07 j 12:21	12°♉55'19	0°51'25
minimum elong	-8359 Jul 07 j 12:19	12°♉55'18	0°51'44
max. Earth dist.	-8359 Jul 07 j 04:43	12°♉53'06	11.14600 AU
morning rise	-8359 Jul 24 j 07:30	14°♉51'20	
	-8359 Jul 25 j 14:07	15°♉	
retrograde	-8359 Oct 30 j 04:56	21°♉35'21	
opposition	-8358 Jan 07 j 13:19	18°♉19'49	1°18'17
min. Earth dist.	-8358 Jan 07 j 20:30	18°♉18'29	9.18418 AU
	-8358 Mar 14 j 22:45	15°℞♉	
direct	-8358 Mar 20 j 13:02	14°♉58'31	
	-8358 Mar 26 j 02:43	15°♉	
evening set	-8358 Jul 01 j 20:58	21°♉59'21	

conjunction	-8358 Jul 18 j 16:43	23°♉54'51	1°16'54
minimum elong	-8358 Jul 18 j 16:40	23°♉54'50	1°17'18
max. Earth dist.	-8358 Jul 18 j 06:03	23°♉51'46	11.21502 AU
morning rise	-8358 Aug 04 j 08:02	25°♉49'12	
	-8358 Sep 14 j 19:05	0°♊	
retrograde	-8358 Nov 10 j 10:08	2°♊31'00	
	-8357 Jan 09 j 00:25	30°℞♉	
opposition	-8357 Jan 19 j 03:14	29°♉15'51	1°47'32
min. Earth dist.	-8357 Jan 19 j 13:54	29°♉13'53	9.23976 AU
direct	-8357 Apr 01 j 05:03	25°♉55'27	
	-8357 Jun 15 j 21:54	0°♊	
evening set	-8357 Jul 13 j 00:33	2°♊52'22	
conjunction	-8357 Jul 29 j 16:17	4°♊46'29	1°39'20
minimum elong	-8357 Jul 29 j 16:14	4°♊46'28	1°39'48
max. Earth dist.	-8357 Jul 29 j 01:49	4°♊42'20	11.25562 AU
morning rise	-8357 Aug 15 j 04:21	6°♊39'40	
retrograde	-8357 Nov 21 j 13:03	13°♊21'20	
opposition	-8356 Jan 30 j 16:27	10°♊06'13	2°12'42
min. Earth dist.	-8356 Jan 31 j 06:39	10°♊03'37	9.26630 AU
direct	-8356 Apr 11 j 17:56	6°♊46'31	
evening set	-8356 Jul 23 j 00:52	13°♊41'09	
conjunction	-8356 Aug 08 j 13:07	15°♊34'22	1°58'06
minimum elong	-8356 Aug 08 j 13:04	15°♊34'22	1°58'38
max. Earth dist.	-8356 Aug 07 j 19:04	15°♊29'11	11.26684 AU
morning rise	-8356 Aug 24 j 22:44	17°♊26'54	
retrograde	-8356 Dec 01 j 19:38	24°♊10'27	
opposition	-8355 Feb 10 j 06:12	20°♊55'03	2°33'08
min. Earth dist.	-8355 Feb 10 j 22:32	20°♊52'05	9.26311 AU
direct	-8355 Apr 23 j 05:52	17°♊35'54	
evening set	-8355 Aug 02 j 23:24	24°♊29'46	
conjunction	-8355 Aug 19 j 09:08	26°♊22'39	2°12'40
minimum elong	-8355 Aug 19 j 09:05	26°♊22'39	2°13'13
max. Earth dist.	-8355 Aug 18 j 13:35	26°♊17'00	11.24833 AU
morning rise	-8355 Sep 04 j 16:55	28°♊15'05	
	-8355 Sep 20 j 15:01	0°♋	
retrograde	-8355 Dec 13 j 05:19	5°♋02'25	
opposition	-8354 Feb 21 j 21:56	1°♋46'26	2°48'14
min. Earth dist.	-8354 Feb 22 j 15:23	1°♋43'16	9.23006 AU
	-8354 Mar 19 j 15:23	30°℞♊	
direct	-8354 May 04 j 15:29	28°♊27'41	
	-8354 Jun 18 j 05:27	0°♋	
evening set	-8354 Aug 13 j 22:12	5°♋22'19	
max. Earth dist.	-8354 Aug 29 j 09:35	7°♋09'25	11.20045 AU
conjunction	-8354 Aug 30 j 06:14	7°♋15'26	2°22'33
minimum elong	-8354 Aug 30 j 06:12	7°♋15'25	2°23'05
morning rise	-8354 Sep 15 j 13:03	9°♋08'19	
retrograde	-8354 Dec 24 j 21:21	16°♋01'17	
opposition	-8353 Mar 05 j 17:06	12°♋44'28	2°57'26
min. Earth dist.	-8353 Mar 06 j 11:44	12°♋41'04	9.16806 AU
direct	-8353 May 16 j 02:10	9°♋25'53	
evening set	-8353 Aug 24 j 23:01	16°♋22'48	
max. Earth dist.	-8353 Sep 09 j 07:50	18°♋10'09	11.12474 AU
conjunction	-8353 Sep 10 j 06:11	18°♋16'42	2°27'17
minimum elong	-8353 Sep 10 j 06:11	18°♋16'42	2°27'49
morning rise	-8353 Sep 26 j 13:20	20°♋10'42	
retrograde	-8352 Jan 05 j 18:09	27°♋11'02	
opposition	-8352 Mar 16 j 17:09	23°♋53'05	3°00'13
min. Earth dist.	-8352 Mar 17 j 12:57	23°♋49'27	9.07911 AU
direct	-8352 May 26 j 14:04	20°♋34'29	
evening set	-8352 Sep 04 j 03:21	27°♋35'06	
conjunction	-8352 Sep 20 j 10:53	29°♋30'24	2°26'29

Attention, astronomical year style is used: The year -8352 in astronomical counting style is the year 8353 BCE in historical counting style.

minimum elong	-8352 Sep 20 j 10:54	29°♋30'25	2°26'59	
max. Earth dist.	-8352 Sep 19 j 12:19	29°♋23'43	11.02360 AU	
	-8352 Sep 24 j 14:38	0°♌		
morning rise	-8352 Oct 06 j 19:32	1°♌26'07		
retrograde	-8351 Jan 16 j 23:33	8°♌35'30		
opposition	-8351 Mar 28 j 23:00	5°♌16'09	2°56'04	
min. Earth dist.	-8351 Mar 29 j 18:31	5°♌12'33	8.96601 AU	
direct	-8351 Jun 07 j 08:01	1°♌57'17		
evening set	-8351 Sep 15 j 13:18	9°♌03'01		
conjunction	-8351 Oct 01 j 22:31	11°♌00'23	2°19'50	
minimum elong	-8351 Oct 01 j 22:34	11°♌00'23	2°20'17	
max. Earth dist.	-8351 Oct 01 j 01:26	10°♌54'02	10.90023 AU	
morning rise	-8351 Oct 18 j 09:39	12°♌58'24		
	-8351 Nov 05 j 04:20	15°♌		
retrograde	-8350 Jan 29 j 15:04	20°♌18'15		
opposition	-8350 Apr 10 j 11:36	16°♌57'18	2°44'38	
min. Earth dist.	-8350 Apr 11 j 05:24	16°♌53'58	8.83259 AU	
	-8350 May 08 j 10:07	15°℞♌		
direct	-8350 Jun 19 j 05:47	13°♌37'59		
	-8350 Jul 29 j 16:47	15°♌		
evening set	-8350 Sep 27 j 06:37	20°♌50'10		
conjunction	-8350 Oct 13 j 18:37	22°♌50'08	2°07'09	
minimum elong	-8350 Oct 13 j 18:40	22°♌50'09	2°07'32	
max. Earth dist.	-8350 Oct 12 j 23:25	22°♌44'16	10.75902 AU	
morning rise	-8350 Oct 30 j 09:24	24°♌51'04		
	-8350 Dec 18 j 17:53	0°♍		
retrograde	-8349 Feb 11 j 16:34	2°♍22'38		
	-8349 Apr 09 j 22:00	30°℞♌		
opposition	-8349 Apr 23 j 08:19	28°♌59'54	2°25'42	
min. Earth dist.	-8349 Apr 23 j 23:43	28°♌56'59	8.68386 AU	
direct	-8349 Jul 01 j 09:43	25°♌39'57		
	-8349 Sep 13 j 05:50	0°♍		
evening set	-8349 Oct 09 j 09:06	2°♍59'49		
max. Earth dist.	-8349 Oct 25 j 07:31	4°♍57'31	10.60554 AU	
conjunction	-8349 Oct 26 j 00:51	5°♍02'54	1°48'26	
minimum elong	-8349 Oct 26 j 00:54	5°♍02'55	1°48'43	
morning rise	-8349 Nov 11 j 20:29	7°♍07'15		
retrograde	-8348 Feb 25 j 05:16	14°♍51'26		
opposition	-8348 May 05 j 13:37	11°♍26'51	1°59'21	
min. Earth dist.	-8348 May 06 j 02:41	11°♍24'20	8.52591 AU	
direct	-8348 Jul 12 j 21:54	8°♍06'01		
evening set	-8348 Oct 20 j 22:42	15°♍34'41		
conjunction	-8348 Nov 06 j 19:08	17°♍41'18	1°23'59	
minimum elong	-8348 Nov 06 j 19:12	17°♍41'19	1°24'09	
max. Earth dist.	-8348 Nov 06 j 04:38	17°♍36'44	10.44608 AU	
morning rise	-8348 Nov 23 j 20:25	19°♍49'29		
retrograde	-8347 Mar 10 j 04:21	27°♍46'42		
opposition	-8347 May 19 j 03:32	24°♍20'14	1°26'05	
min. Earth dist.	-8347 May 19 j 13:48	24°♍18'13	8.36551 AU	
direct	-8347 Jul 25 j 18:47	20°♍58'19		
evening set	-8347 Nov 03 j 00:45	28°♍36'46		
	-8347 Nov 13 j 23:19	0°♎		
conjunction	-8347 Nov 20 j 02:38	0°♎47'11	0°54'28	
minimum elong	-8347 Nov 20 j 02:40	0°♎47'12	0°54'31	
max. Earth dist.	-8347 Nov 19 j 16:21	0°♎43'53	10.28752 AU	
morning rise	-8347 Dec 07 j 09:52	2°♎59'22		
retrograde	-8346 Mar 24 j 13:34	11°♎09'35		
opposition	-8346 Jun 02 j 02:21	7°♎41'18	0°46'55	
min. Earth dist.	-8346 Jun 02 j 08:56	7°♎40'00	8.20991 AU	
direct	-8346 Aug 08 j 02:35	4°♎18'13		
evening set	-8346 Nov 16 j 16:27	12°♎07'09		

conjunction	-8346 Dec 04 j 00:03	14°♎21'26	0°21'03	
minimum elong	-8346 Dec 04 j 00:04	14°♎21'27	0°20'59	
max. Earth dist.	-8346 Dec 03 j 19:08	14°♎19'51	10.13744 AU	
morning rise	-8346 Dec 21 j 13:11	16°♎37'35		
retrograde	-8345 Apr 08 j 09:18	25°♎00'06		
opposition	-8345 Jun 16 j 09:33	21°♎30'13	0°03'37	
min. Earth dist.	-8345 Jun 16 j 11:20	21°♎29'51	8.06756 AU	
desc. node	-8345 Jul 16 j 20:20	19°♎15'17		
direct	-8345 Aug 21 j 20:11	18°♎05'53		
evening set	-8345 Nov 30 j 22:50	26°♎05'34		
conjunction	-8345 Dec 18 j 11:56	28°♎23'30	-0°14'37	
minimum elong	-8345 Dec 18 j 11:55	28°♎23'29	0°14'50	
behind sun begin	-8345 Dec 18 j 09:09	28°♎22'35		
behind sun end	-8345 Dec 18 j 14:42	28°♎24'24		
max. Earth dist.	-8345 Dec 18 j 12:47	28°♎23'46	10.00509 AU	
	-8345 Dec 30 j 17:19	0°♏		
morning rise	-8344 Jan 05 j 06:31	0°♏43'16		
retrograde	-8344 Apr 22 j 13:38	9°♏16'17		
opposition	-8344 Jun 29 j 23:52	5°♏45'05	-0°41'21	
min. Earth dist.	-8344 Jun 29 j 20:36	5°♏45'45	7.94823 AU	
direct	-8344 Sep 03 j 22:33	2°♏19'26		
evening set	-8344 Dec 14 j 19:19	10°♏29'22		
conjunction	-8343 Jan 01 j 13:15	12°♏50'21	-0°50'13	
minimum elong	-8343 Jan 01 j 13:12	12°♏50'20	0°50'33	
max. Earth dist.	-8343 Jan 01 j 20:02	12°♏52'36	9.90015 AU	
	-8343 Jan 17 j 20:24	15°♏		
morning rise	-8343 Jan 19 j 12:20	15°♏13'03		
retrograde	-8343 May 08 j 00:02	23°♏53'37		
opposition	-8343 Jul 14 j 19:42	20°♏21'31	-1°24'51	
min. Earth dist.	-8343 Jul 14 j 11:41	20°♏23'11	7.86087 AU	
direct	-8343 Sep 18 j 10:10	16°♏54'33		
evening set	-8343 Dec 30 j 03:49	25°♏13'16		
conjunction	-8342 Jan 17 j 01:34	27°♏36'25	-1°23'14	
minimum elong	-8342 Jan 17 j 01:30	27°♏36'24	1°23'41	
max. Earth dist.	-8342 Jan 17 j 14:08	27°♏40'38	9.83071 AU	
morning rise	-8342 Feb 04 j 03:48	0°♐01'03		
	-8342 Feb 04 j 00:37	0°♐		
retrograde	-8342 May 23 j 11:41	8°♐45'19		
opposition	-8342 Jul 29 j 18:29	5°♐12'47	-2°03'27	
min. Earth dist.	-8342 Jul 29 j 06:25	5°♐15'18	7.81224 AU	
direct	-8342 Oct 03 j 06:33	1°♐44'35		
evening set	-8341 Jan 14 j 21:14	10°♐09'43		
conjunction	-8341 Feb 01 j 21:42	12°♐34'00	-1°51'04	
minimum elong	-8341 Feb 01 j 21:38	12°♐33'59	1°51'34	
max. Earth dist.	-8341 Feb 02 j 15:15	12°♐39'54	9.80234 AU	
morning rise	-8341 Feb 20 j 01:41	14°♐59'23		
retrograde	-8341 Jun 07 j 20:41	23°♐42'52		
opposition	-8341 Aug 13 j 17:16	20°♐10'25	-2°33'55	
min. Earth dist.	-8341 Aug 13 j 02:19	20°♐13'34	7.80610 AU	
direct	-8341 Oct 18 j 08:15	16°♐41'11		
evening set	-8340 Jan 30 j 19:10	25°♐09'37		
conjunction	-8340 Feb 17 j 21:15	27°♐33'56	-2°11'27	
minimum elong	-8340 Feb 17 j 21:11	27°♐33'55	2°12'01	
max. Earth dist.	-8340 Feb 18 j 18:36	27°♐41'04	9.81720 AU	
morning rise	-8340 Mar 07 j 01:33	29°♐58'53		
	-8340 Mar 07 j 04:59	0°♑		
retrograde	-8340 Jun 21 j 23:40	8°♑36'59		
opposition	-8340 Aug 27 j 13:18	5°♑05'11	-2°53'50	
min. Earth dist.	-8340 Aug 26 j 20:15	5°♑08'46	7.84262 AU	
direct	-8340 Nov 01 j 12:25	1°♑35'12		
evening set	-8339 Feb 14 j 16:30	10°♑03'19		

Attention, astronomical year style is used: The year -8339 in astronomical counting style is the year 8340 BCE in historical counting style.

conjunction	-8339 Mar 04 j 19:07	12°♒26'37	-2°22'57	
minimum elong	-8339 Mar 04 j 19:05	12°♒26'37	2°23'31	
max. Earth dist.	-8339 Mar 05 j 18:58	12°♒34'32	9.87391 AU	
morning rise	-8339 Mar 22 j 22:32	14°♒50'04		
retrograde	-8339 Jul 06 j 17:06	23°♒18'47		
min. Earth dist.	-8339 Sep 10 j 09:27	19°♒51'57	7.91873 AU	
opposition	-8339 Sep 11 j 03:47	19°♒48'06	-3°01'57	
direct	-8339 Nov 16 j 14:56	16°♒17'44		
evening set	-8338 Mar 02 j 08:25	24°♒41'57		
conjunction	-8338 Mar 20 j 10:46	27°♒03'24	-2°25'03	
minimum elong	-8338 Mar 20 j 10:47	27°♒03'25	2°25'34	
max. Earth dist.	-8338 Mar 21 j 11:33	27°♒11'32	9.96804 AU	
morning rise	-8338 Apr 07 j 12:26	29°♒24'30		
	-8338 Apr 12 j 03:49	0°♓		
retrograde	-8338 Jul 21 j 00:08	7°♓40'46		
opposition	-8338 Sep 25 j 10:38	4°♓11'35	-2°58'20	
min. Earth dist.	-8338 Sep 24 j 15:56	4°♓15'28	8.02866 AU	
direct	-8338 Dec 01 j 12:34	0°♓41'13		
evening set	-8337 Mar 17 j 15:02	8°♓58'28		
conjunction	-8337 Apr 04 j 16:25	11°♓17'26	-2°18'08	
minimum elong	-8337 Apr 04 j 16:27	11°♓17'27	2°18'36	
max. Earth dist.	-8337 Apr 05 j 16:36	11°♓25'15	10.09259 AU	
morning rise	-8337 Apr 22 j 15:39	13°♓35'36		
	-8337 May 03 j 23:40	15°♓		
retrograde	-8337 Aug 03 j 20:10	21°♓37'34		
opposition	-8337 Oct 09 j 08:36	18°♓10'09	-2°44'06	
min. Earth dist.	-8337 Oct 08 j 14:34	18°♓13'52	8.16455 AU	
	-8337 Nov 26 j 23:31	15°♓℞		
direct	-8337 Dec 16 j 03:31	14°♓40'11		
	-8336 Jan 04 j 07:50	15°♓		
evening set	-8336 Mar 31 j 09:45	22°♓48'12		
conjunction	-8336 Apr 18 j 09:25	25°♓04'14	-2°03'23	
minimum elong	-8336 Apr 18 j 09:29	25°♓04'15	2°03'45	
max. Earth dist.	-8336 Apr 19 j 07:48	25°♓11'21	10.23895 AU	
morning rise	-8336 May 06 j 05:39	27°♓19'08		
	-8336 May 28 j 18:23	0°♈		
retrograde	-8336 Aug 16 j 03:50	5°♈06'09		
opposition	-8336 Oct 21 j 21:05	1°♈40'43	-2°21'09	
min. Earth dist.	-8336 Oct 21 j 05:09	1°♈43'57	8.31775 AU	
	-8336 Nov 12 j 12:35	30°♓℞		
direct	-8336 Dec 29 j 09:50	28°♓11'30		
	-8335 Feb 13 j 21:56	0°♈		
evening set	-8335 Apr 14 j 15:03	6°♈08'56		
conjunction	-8335 May 02 j 12:18	8°♈21'47	-1°42'23	
minimum elong	-8335 May 02 j 12:21	8°♈21'48	1°42'38	
max. Earth dist.	-8335 May 03 j 07:24	8°♈27'44	10.39823 AU	
morning rise	-8335 May 20 j 05:10	10°♈33'16		
retrograde	-8335 Aug 28 j 23:25	18°♈05'47		
min. Earth dist.	-8335 Nov 03 j 11:19	14°♈44'57	8.47961 AU	
opposition	-8335 Nov 04 j 00:04	14°♈42'24	-1°51'40	
direct	-8334 Jan 12 j 06:29	11°♈14'12		
evening set	-8334 Apr 28 j 06:33	19°♈00'34		
conjunction	-8334 May 16 j 00:44	21°♈10'11	-1°16'51	
minimum elong	-8334 May 16 j 00:47	21°♈10'12	1°16'59	
max. Earth dist.	-8334 May 16 j 15:07	21°♈14'35	10.56174 AU	
morning rise	-8334 Jun 02 j 14:01	23°♈18'16		
	-8334 Aug 14 j 21:01	0°♈		
retrograde	-8334 Sep 10 j 08:35	0°♈37'30		
	-8334 Oct 07 j 00:59	30°♓℞		
opposition	-8334 Nov 16 j 18:05	27°♈16'06	-1°17'53	
min. Earth dist.	-8334 Nov 16 j 08:55	27°♈17'54	8.64174 AU	
direct	-8333 Jan 25 j 17:03	23°♈49'10		
	-8333 Apr 29 j 03:52	0°♈		
evening set	-8333 May 11 j 09:06	1°♈24'43		
conjunction	-8333 May 28 j 23:38	3°♈31'09	-0°48'28	
minimum elong	-8333 May 28 j 23:41	3°♈31'09	0°48'29	
max. Earth dist.	-8333 May 29 j 08:40	3°♈33'51	10.72142 AU	
morning rise	-8333 Jun 15 j 09:03	5°♈35'59		
retrograde	-8333 Sep 22 j 07:27	12°♈43'38		
opposition	-8333 Nov 29 j 03:58	9°♈24'05	-0°41'47	
min. Earth dist.	-8333 Nov 28 j 21:58	9°♈25'15	8.79663 AU	
direct	-8332 Feb 07 j 18:46	5°♈58'33		
evening set	-8332 May 22 j 23:33	13°♈24'04		
conjunction	-8332 Jun 09 j 10:08	15°♈27'28	-0°18'47	
minimum elong	-8332 Jun 09 j 10:09	15°♈27'29	0°18'41	
max. Earth dist.	-8332 Jun 09 j 14:32	15°♈28'46	10.87027 AU	
morning rise	-8332 Jun 26 j 15:23	17°♈29'19		
retrograde	-8332 Oct 03 j 00:42	24°♈27'27		
opposition	-8332 Dec 10 j 07:08	21°♈09'31	-0°05'06	
min. Earth dist.	-8332 Dec 10 j 04:19	21°♈10'03	8.93780 AU	
asc. node	-8331 Jan 31 j 18:10	18°♈02'08		
direct	-8331 Feb 19 j 11:07	17°♈45'26		
evening set	-8331 Jun 04 j 03:13	25°♈01'58		
conjunction	-8331 Jun 21 j 09:36	27°♈02'38	0°10'59	
minimum elong	-8331 Jun 21 j 09:36	27°♈02'38	0°11'11	
behind sun begin	-8331 Jun 21 j 04:21	27°♈01'07		
behind sun end	-8331 Jun 21 j 14:51	27°♈04'09		
max. Earth dist.	-8331 Jun 21 j 10:12	27°♈02'49	11.00229 AU	
morning rise	-8331 Jul 08 j 10:33	29°♈01'47		
	-8331 Jul 17 j 00:19	0°♉		
retrograde	-8331 Oct 14 j 12:23	5°♉52'30		
opposition	-8331 Dec 22 j 04:48	2°♉35'56	0°30'43	
min. Earth dist.	-8331 Dec 22 j 06:02	2°♉35'42	9.05984 AU	
	-8330 Jan 30 j 22:06	30°℞♈		
direct	-8330 Mar 03 j 17:01	29°♈13'15		
	-8330 Apr 04 j 07:26	0°♉		
evening set	-8330 Jun 15 j 22:07	6°♉22'12		
conjunction	-8330 Jul 03 j 00:01	8°♉20'26	0°39'35	
minimum elong	-8330 Jul 02 j 24:00	8°♉20'26	0°39'52	
max. Earth dist.	-8330 Jul 02 j 19:59	8°♉19'16	11.11261 AU	
morning rise	-8330 Jul 19 j 20:49	10°♉17'17		
	-8330 Sep 05 j 11:20	15°♉		
retrograde	-8330 Oct 25 j 18:44	17°♉02'43		
	-8330 Dec 17 j 03:29	15°℞♉		
opposition	-8329 Jan 02 j 22:14	13°♉47'11	1°04'30	
min. Earth dist.	-8329 Jan 03 j 04:00	13°♉46'07	9.15838 AU	
direct	-8329 Mar 15 j 18:05	10°♉25'44		
	-8329 Jun 04 j 09:42	15°♉		
evening set	-8329 Jun 27 j 09:41	17°♉28'38		
conjunction	-8329 Jul 14 j 07:05	19°♉24'48	1°06'12	
minimum elong	-8329 Jul 14 j 07:03	19°♉24'47	1°06'34	
max. Earth dist.	-8329 Jul 13 j 21:50	19°♉22'08	11.19751 AU	
morning rise	-8329 Jul 31 j 00:06	21°♉19'46		
retrograde	-8329 Nov 05 j 23:26	28°♉02'04		
opposition	-8328 Jan 14 j 13:03	24°♉47'11	1°35'18	
min. Earth dist.	-8328 Jan 14 j 22:09	24°♉45'31	9.23006 AU	
direct	-8328 Mar 26 j 13:32	21°♉26'51		
evening set	-8328 Jul 07 j 15:18	28°♉25'07		
	-8328 Jul 21 j 12:13	0°♊		
conjunction	-8328 Jul 24 j 08:38	0°♊19'41	1°30'02	
minimum elong	-8328 Jul 24 j 08:35	0°♊19'40	1°30'29	
max. Earth dist.	-8328 Jul 23 j 19:54	0°♊16'02	11.25415 AU	
morning rise	-8328 Aug 09 j 22:09	2°♊13'14		

Attention, astronomical year style is used: The year -8328 in astronomical counting style is the year 8329 BCE in historical counting style.

retrograde	-8328 Nov 16 j 03:35	8°♊54'30	
opposition	-8327 Jan 25 j 02:26	5°♊39'53	2°02'19
min. Earth dist.	-8327 Jan 25 j 14:10	5°♊37'45	9.27227 AU
direct	-8327 Apr 07 j 04:48	2°♊20'26	
evening set	-8327 Jul 18 j 16:57	9°♊15'39	
conjunction	-8327 Aug 04 j 06:45	11°♊09'06	1°50'28
minimum elong	-8327 Aug 04 j 06:42	11°♊09'05	1°50'58
max. Earth dist.	-8327 Aug 03 j 15:19	11°♊04'40	11.28035 AU
morning rise	-8327 Aug 20 j 17:14	13°♊01'43	
retrograde	-8327 Nov 27 j 10:07	19°♊43'56	
opposition	-8326 Feb 05 j 15:41	16°♊29'15	2°24'51
min. Earth dist.	-8326 Feb 06 j 06:32	16°♊26'33	9.28319 AU
direct	-8326 Apr 18 j 16:14	13°♊10'27	
evening set	-8326 Jul 29 j 16:21	20°♊04'13	
max. Earth dist.	-8326 Aug 14 j 07:59	21°♊51'34	11.27477 AU
conjunction	-8326 Aug 15 j 03:05	21°♊57'05	2°06'54
minimum elong	-8326 Aug 15 j 03:02	21°♊57'04	2°07'26
morning rise	-8326 Aug 31 j 11:26	23°♊49'22	
	-8326 Nov 12 j 00:30	0°♋	
retrograde	-8326 Dec 08 j 16:53	0°♋34'32	
	-8325 Jan 04 j 20:56	30°℞♊	
opposition	-8325 Feb 17 j 06:34	27°♊19'24	2°42'20
min. Earth dist.	-8325 Feb 18 j 00:43	27°♊16'07	9.26197 AU
direct	-8325 Apr 30 j 01:13	24°♊01'01	
	-8325 Aug 01 j 10:07	0°♋	
evening set	-8325 Aug 09 j 15:02	0°♋54'59	
conjunction	-8325 Aug 25 j 23:29	2°♋47'49	2°18'51
minimum elong	-8325 Aug 25 j 23:28	2°♋47'48	2°19'24
max. Earth dist.	-8325 Aug 25 j 01:28	2°♋41'26	11.23741 AU
morning rise	-8325 Sep 11 j 06:40	4°♋40'21	
retrograde	-8325 Dec 20 j 05:57	11°♋30'28	
opposition	-8324 Feb 29 j 00:20	8°♋14'32	2°54'09
min. Earth dist.	-8324 Feb 29 j 20:16	8°♋10'55	9.20936 AU
direct	-8324 May 10 j 13:24	4°♋56'18	
evening set	-8324 Aug 19 j 14:52	11°♋51'59	
conjunction	-8324 Sep 04 j 22:15	13°♋45'25	2°25'52
minimum elong	-8324 Sep 04 j 22:14	13°♋45'25	2°26'24
max. Earth dist.	-8324 Sep 03 j 23:26	13°♋38'45	11.16983 AU
morning rise	-8324 Sep 21 j 05:08	15°♋38'48	
retrograde	-8324 Dec 31 j 00:32	22°♋35'40	
opposition	-8323 Mar 11 j 22:05	19°♋18'34	2°59'46
min. Earth dist.	-8323 Mar 12 j 18:14	19°♋14'54	9.12752 AU
direct	-8323 May 22 j 01:03	16°♋00'16	
evening set	-8323 Aug 30 j 17:33	22°♋59'08	
max. Earth dist.	-8323 Sep 15 j 01:55	24°♋46'57	11.07458 AU
conjunction	-8323 Sep 16 j 00:57	24°♋53'45	2°27'30
minimum elong	-8323 Sep 16 j 00:57	24°♋53'45	2°28'02
morning rise	-8323 Oct 02 j 08:39	26°♋48'37	
	-8323 Oct 31 j 19:52	0°♌	
retrograde	-8322 Jan 12 j 03:26	3°♌53'53	
opposition	-8322 Mar 24 j 01:18	0°♌35'20	2°58'42
min. Earth dist.	-8322 Mar 24 j 21:29	0°♌31'37	9.01935 AU
	-8322 Apr 01 j 02:05	30°℞♋	
direct	-8322 Jun 02 j 16:13	27°♋16'41	
	-8322 Jul 31 j 13:34	0°♌	
evening set	-8322 Sep 11 j 00:57	4°♌20'08	
max. Earth dist.	-8322 Sep 26 j 09:51	6°♌09'33	10.95509 AU
conjunction	-8322 Sep 27 j 09:17	6°♌16'33	2°23'26
minimum elong	-8322 Sep 27 j 09:19	6°♌16'34	2°23'55
morning rise	-8322 Oct 13 j 19:08	8°♌13'31	
	-8322 Dec 31 j 06:38	15°♌	

retrograde	-8321 Jan 24 j 14:04	15°♌28'44	
	-8321 Feb 18 j 03:18	15°℞♌	
opposition	-8321 Apr 05 j 11:06	12°♌08'29	2°50'31
min. Earth dist.	-8321 Apr 06 j 07:02	12°♌04'46	8.88882 AU
direct	-8321 Jun 14 j 10:57	8°♌49'14	
	-8321 Sep 14 j 06:16	15°♌	
evening set	-8321 Sep 22 j 14:52	15°♌58'39	
max. Earth dist.	-8321 Oct 08 j 02:51	17°♌50'38	10.81578 AU
conjunction	-8321 Oct 09 j 01:23	17°♌57'28	2°13'24
minimum elong	-8321 Oct 09 j 01:26	17°♌57'29	2°13'49
morning rise	-8321 Oct 25 j 14:35	19°♌57'08	
retrograde	-8320 Feb 06 j 09:09	27°♌23'41	
opposition	-8320 Apr 17 j 04:20	24°♌01'30	2°34'53
min. Earth dist.	-8320 Apr 17 j 22:58	23°♌57'59	8.74090 AU
direct	-8320 Jun 25 j 13:21	20°♌41'28	
evening set	-8320 Oct 03 j 13:00	27°♌58'10	
max. Earth dist.	-8320 Oct 19 j 07:30	29°♌53'55	10.66189 AU
conjunction	-8320 Oct 20 j 03:02	29°♌59'57	1°57'18
minimum elong	-8320 Oct 20 j 03:06	29°♌59'58	1°57'38
	-8320 Oct 20 j 03:13	0°♍	
morning rise	-8320 Nov 05 j 20:33	2°♍02'53	
retrograde	-8319 Feb 18 j 16:34	9°♍41'51	
opposition	-8319 Apr 30 j 05:45	6°♍17'38	2°11'45
min. Earth dist.	-8319 Apr 30 j 21:22	6°♍14'38	8.58138 AU
direct	-8319 Jul 07 j 23:19	2°♍56'40	
evening set	-8319 Oct 15 j 21:31	10°♍21'51	
conjunction	-8319 Nov 01 j 16:00	12°♍27'04	1°35'17
minimum elong	-8319 Nov 01 j 16:04	12°♍27'05	1°35'30
max. Earth dist.	-8319 Nov 01 j 00:03	12°♍22'04	10.49964 AU
morning rise	-8319 Nov 18 j 14:39	14°♍33'42	
retrograde	-8318 Mar 04 j 12:17	22°♍25'48	
opposition	-8318 May 13 j 15:54	18°♍59'33	1°41'24
min. Earth dist.	-8318 May 14 j 03:37	18°♍57'16	8.41717 AU
direct	-8318 Jul 20 j 15:32	15°♍37'31	
evening set	-8318 Oct 28 j 18:02	23°♍12'16	
conjunction	-8318 Nov 14 j 17:37	25°♍21'14	1°07'51
minimum elong	-8318 Nov 14 j 17:40	25°♍21'15	1°07'57
max. Earth dist.	-8318 Nov 14 j 05:33	25°♍17'23	10.33652 AU
morning rise	-8318 Dec 01 j 22:09	27°♍31'52	
	-8318 Dec 22 j 10:50	0°♎	
retrograde	-8317 Mar 18 j 17:54	5°♎37'16	
opposition	-8317 May 27 j 11:15	2°♎09'04	1°04'34
min. Earth dist.	-8317 May 27 j 18:44	2°♎07'36	8.25633 AU
	-8317 Jun 25 j 22:37	30°℞♍	
direct	-8317 Aug 02 j 17:58	28°♍45'53	
	-8317 Sep 08 j 15:10	0°♎	
evening set	-8317 Nov 11 j 03:57	6°♎30'57	
conjunction	-8317 Nov 28 j 09:04	8°♎43'48	0°35'55
minimum elong	-8317 Nov 28 j 09:06	8°♎43'49	0°35'53
max. Earth dist.	-8317 Nov 28 j 01:19	8°♎41'18	10.18081 AU
morning rise	-8317 Dec 15 j 19:47	10°♎58'30	
retrograde	-8316 Apr 01 j 09:59	19°♎16'38	
opposition	-8316 Jun 09 j 15:19	15°♎46'43	0°22'44
min. Earth dist.	-8316 Jun 09 j 18:39	15°♎46'03	8.10748 AU
direct	-8316 Aug 15 j 07:05	12°♎22'16	
evening set	-8316 Nov 24 j 04:20	20°♎18'02	
conjunction	-8316 Dec 11 j 15:00	22°♎34'38	0°00'59
minimum elong	-8316 Dec 11 j 15:00	22°♎34'38	0°00'50
behind sun begin	-8316 Dec 11 j 07:46	22°♎32'17	
behind sun end	-8316 Dec 11 j 22:14	22°♎36'59	
max. Earth dist.	-8316 Dec 11 j 12:45	22°♎33'58	10.04121 AU

Attention, astronomical year style is used: The year -8316 in astronomical counting style is the year 8317 BCE in historical counting style.

desc. node	-8316 Dec 21 j 19:21	23°♎54'44	
morning rise	-8316 Dec 29 j 07:31	24°♎53'09	
	-8315 Feb 11 j 10:56	0°♏	
retrograde	-8315 Apr 16 j 10:54	3°♏22'32	
	-8315 Jun 22 j 07:57	30°℞♎	
opposition	-8315 Jun 24 j 03:00	29°♎51'13	-0°21'55
min. Earth dist.	-8315 Jun 24 j 01:56	29°♎51'26	7.97957 AU
direct	-8315 Aug 29 j 06:12	26°♎25'30	
	-8315 Oct 31 j 17:56	0°♏	
evening set	-8315 Dec 08 j 18:54	4°♏31'42	
conjunction	-8315 Dec 26 j 10:46	6°♏51'36	-0°35'01
minimum elong	-8315 Dec 26 j 10:44	6°♏51'36	0°35'18
max. Earth dist.	-8315 Dec 26 j 14:57	6°♏53'00	9.92653 AU
morning rise	-8314 Jan 13 j 08:14	9°♏13'21	
	-8314 Mar 04 j 17:28	15°♏	
retrograde	-8314 May 01 j 18:35	17°♏51'32	
	-8314 Jun 30 j 14:30	15°℞♏	
opposition	-8314 Jul 08 j 21:01	14°♏19'14	-1°06'31
min. Earth dist.	-8314 Jul 08 j 15:02	14°♏20'28	7.88109 AU
direct	-8314 Sep 12 j 15:11	10°♏52'19	
	-8314 Nov 20 j 01:13	15°♏	
evening set	-8314 Dec 23 j 22:25	19°♏07'52	
conjunction	-8313 Jan 10 j 18:42	21°♏30'19	-1°09'30
minimum elong	-8313 Jan 10 j 18:38	21°♏30'18	1°09'53
max. Earth dist.	-8313 Jan 11 j 05:34	21°♏33'58	9.84484 AU
morning rise	-8313 Jan 28 j 19:52	23°♏54'24	
	-8313 Mar 23 j 02:27	0°♐	
retrograde	-8313 May 17 j 05:29	2°♐37'58	
	-8313 Jul 12 j 17:19	30°℞♏	
opposition	-8313 Jul 23 j 19:02	29°♏05'08	-1°47'40
min. Earth dist.	-8313 Jul 23 j 08:15	29°♏07'24	7.81916 AU
direct	-8313 Sep 27 j 08:58	25°♏37'08	
	-8313 Dec 07 j 00:15	0°♐	
evening set	-8312 Jan 08 j 12:38	4°♐00'07	
conjunction	-8312 Jan 26 j 12:13	6°♐24'09	-1°39'52
minimum elong	-8312 Jan 26 j 12:09	6°♐24'07	1°40'21
max. Earth dist.	-8312 Jan 27 j 05:16	6°♐29'53	9.80236 AU
morning rise	-8312 Feb 13 j 15:39	8°♐49'26	
retrograde	-8312 May 31 j 15:54	17°♐34'05	
opposition	-8312 Aug 06 j 18:14	14°♐01'20	-2°21'59
min. Earth dist.	-8312 Aug 06 j 03:14	14°♐04'29	7.79854 AU
direct	-8312 Oct 11 j 08:19	10°♐32'25	
evening set	-8311 Jan 23 j 09:26	19°♐00'02	
conjunction	-8311 Feb 10 j 11:06	21°♐24'32	-2°03'41
minimum elong	-8311 Feb 10 j 11:02	21°♐24'30	2°04'14
max. Earth dist.	-8311 Feb 11 j 09:16	21°♐31'58	9.80264 AU
morning rise	-8311 Feb 28 j 15:18	23°♐49'50	
	-8311 Apr 23 j 15:55	0°♑	
retrograde	-8311 Jun 15 j 22:31	2°♑31'01	
	-8311 Aug 09 j 09:39	30°℞♐	
opposition	-8311 Aug 21 j 16:02	28°♐58'52	-2°46'38
min. Earth dist.	-8311 Aug 20 j 21:54	29°♐02'41	7.82101 AU
direct	-8311 Oct 26 j 10:48	25°♐29'19	
	-8310 Jan 06 j 21:54	0°♑	
evening set	-8310 Feb 08 j 07:44	3°♑58'04	
conjunction	-8310 Feb 26 j 10:21	6°♑21'57	-2°19'07
minimum elong	-8310 Feb 26 j 10:19	6°♑21'57	2°19'40
max. Earth dist.	-8310 Feb 27 j 12:00	6°♑30'30	9.84598 AU
morning rise	-8310 Mar 16 j 14:07	8°♑46'09	
retrograde	-8310 Jun 30 j 21:48	17°♑19'32	
opposition	-8310 Sep 05 j 09:29	13°♑48'30	-2°59'50
min. Earth dist.	-8310 Sep 04 j 13:48	13°♑52'38	7.88499 AU
direct	-8310 Nov 10 j 13:10	10°♑18'36	
evening set	-8309 Feb 24 j 02:57	18°♑44'52	
conjunction	-8309 Mar 14 j 05:34	21°♑07'12	-2°25'12
minimum elong	-8309 Mar 14 j 05:33	21°♑07'12	2°25'45
max. Earth dist.	-8309 Mar 15 j 08:33	21°♑16'05	9.92919 AU
morning rise	-8309 Apr 01 j 07:56	23°♑29'20	
	-8309 May 31 j 03:51	0°♒	
retrograde	-8309 Jul 15 j 11:19	1°♒51'17	
	-8309 Aug 30 j 09:21	30°℞♑	
opposition	-8309 Sep 19 j 20:04	28°♑21'47	-3°01'06
min. Earth dist.	-8309 Sep 19 j 00:23	28°♑25'54	7.98566 AU
direct	-8309 Nov 25 j 13:00	24°♑51'51	
	-8308 Feb 13 j 04:10	0°♒	
evening set	-8308 Mar 10 j 14:29	3°♒12'18	
conjunction	-8308 Mar 28 j 16:16	5°♒32'19	-2°22'01
minimum elong	-8308 Mar 28 j 16:18	5°♒32'20	2°22'30
max. Earth dist.	-8308 Mar 29 j 18:30	5°♒40'50	10.04599 AU
morning rise	-8308 Apr 15 j 16:32	7°♒51'42	
	-8308 Jun 25 j 14:40	15°♒	
retrograde	-8308 Jul 28 j 12:49	15°♒59'46	
	-8308 Aug 30 j 14:33	15°℞♒	
opposition	-8308 Oct 02 j 22:18	12°♒32'07	-2°51'09
min. Earth dist.	-8308 Oct 02 j 03:46	12°♒35'56	8.11561 AU
direct	-8308 Dec 09 j 08:22	9°♒02'30	
	-8307 Mar 07 j 03:41	15°♒	
evening set	-8307 Mar 25 j 14:41	17°♒14'24	
conjunction	-8307 Apr 12 j 14:56	19°♒31'34	-2°10'25
minimum elong	-8307 Apr 12 j 14:59	19°♒31'35	2°10'49
max. Earth dist.	-8307 Apr 13 j 14:36	19°♒39'08	10.18782 AU
morning rise	-8307 Apr 30 j 12:32	21°♒47'46	
retrograde	-8307 Aug 11 j 00:10	29°♒40'50	
opposition	-8307 Oct 16 j 14:57	26°♒15'10	-2°31'38
min. Earth dist.	-8307 Oct 15 j 22:17	26°♒18'33	8.26562 AU
direct	-8307 Dec 23 j 19:52	22°♒46'12	
	-8306 Apr 02 j 12:41	0°♓	
evening set	-8306 Apr 09 j 01:49	0°♓47'49	
conjunction	-8306 Apr 26 j 23:59	3°♓01'52	-1°51'51
minimum elong	-8306 Apr 27 j 00:03	3°♓01'53	1°52'10
max. Earth dist.	-8306 Apr 27 j 19:42	3°♓08'03	10.34479 AU
morning rise	-8306 May 14 j 18:28	5°♓14'40	
retrograde	-8306 Aug 23 j 23:43	12°♓52'52	
opposition	-8306 Oct 29 j 21:40	9°♓29'13	-2°04'40
min. Earth dist.	-8306 Oct 29 j 07:28	9°♓32'04	8.42568 AU
direct	-8305 Jan 06 j 21:16	6°♓01'10	
evening set	-8305 Apr 22 j 23:15	13°♓51'52	
conjunction	-8305 May 10 j 18:47	16°♓02'43	-1°28'02
minimum elong	-8305 May 10 j 18:50	16°♓02'44	1°28'14
max. Earth dist.	-8305 May 11 j 10:17	16°♓07'30	10.50697 AU
morning rise	-8305 May 28 j 09:42	18°♓12'06	
retrograde	-8305 Sep 05 j 14:36	25°♓36'32	
opposition	-8305 Nov 11 j 19:19	22°♓14'52	-1°32'29
min. Earth dist.	-8305 Nov 11 j 08:20	22°♓17'02	8.58677 AU
direct	-8304 Jan 20 j 11:03	18°♓47'58	
evening set	-8304 May 05 j 07:17	26°♓27'47	
conjunction	-8304 May 22 j 23:32	28°♓35'29	-1°00'40
minimum elong	-8304 May 22 j 23:35	28°♓35'30	1°00'45
max. Earth dist.	-8304 May 23 j 10:44	28°♓38'53	10.66629 AU
	-8304 Jun 03 j 15:08	0°♈	
morning rise	-8304 Jun 09 j 10:31	0°♈41'35	
retrograde	-8304 Sep 16 j 18:18	7°♈53'50	
opposition	-8304 Nov 23 j 08:43	4°♈34'00	-0°57'09

Attention, astronomical year style is used: The year -8304 in astronomical counting style is the year 8305 BCE in historical counting style.

min. Earth dist.	-8304 Nov 23 j 01:45	4°♈35'21	8.74195 AU
direct	-8303 Feb 01 j 16:02	1°♈08'19	
evening set	-8303 May 18 j 02:55	8°♈37'53	
conjunction	-8303 Jun 04 j 15:19	10°♈42'31	-0°31'22
minimum elong	-8303 Jun 04 j 15:21	10°♈42'32	0°31'20
max. Earth dist.	-8303 Jun 04 j 21:31	10°♈44'22	10.81636 AU
morning rise	-8303 Jun 21 j 22:15	12°♈45'34	
retrograde	-8303 Sep 28 j 13:43	19°♈47'30	
opposition	-8303 Dec 05 j 14:43	16°♈29'14	-0°20'33
min. Earth dist.	-8303 Dec 05 j 12:15	16°♈29'43	8.88526 AU
direct	-8302 Feb 14 j 12:08	13°♈04'48	
evening set	-8302 May 30 j 11:17	20°♈25'03	
conjunction	-8302 Jun 16 j 19:25	22°♈26'50	-0°01'33
minimum elong	-8302 Jun 16 j 19:26	22°♈26'51	0°01'24
behind sun begin	-8302 Jun 16 j 12:20	22°♈24'46	
behind sun end	-8302 Jun 17 j 02:33	22°♈28'55	
max. Earth dist.	-8302 Jun 16 j 19:46	22°♈26'55	10.95148 AU
morning rise	-8302 Jul 03 j 22:19	24°♈27'06	
asc. node	-8302 Jul 06 j 04:14	24°♈42'36	
	-8302 Aug 31 j 01:47	0°♉	
retrograde	-8302 Oct 10 j 02:31	1°♉20'46	
	-8302 Nov 20 j 03:12	30°℞♈	
opposition	-8302 Dec 17 j 14:37	28°♈03'47	0°15'47
min. Earth dist.	-8302 Dec 17 j 15:51	28°♈03'33	9.01119 AU
direct	-8301 Feb 26 j 23:12	24°♈40'33	
	-8301 May 25 j 10:14	0°♉	
evening set	-8301 Jun 11 j 09:53	1°♉52'42	
conjunction	-8301 Jun 28 j 13:39	3°♉51'58	0°27'42
minimum elong	-8301 Jun 28 j 13:38	3°♉51'57	0°27'57
max. Earth dist.	-8301 Jun 28 j 09:20	3°♉50'42	11.06663 AU
morning rise	-8301 Jul 15 j 12:22	5°♉49'47	
retrograde	-8301 Oct 21 j 10:27	12°♉37'20	
opposition	-8301 Dec 29 j 09:42	9°♉21'18	0°50'33
min. Earth dist.	-8301 Dec 29 j 14:05	9°♉20'29	9.11521 AU
direct	-8300 Mar 10 j 04:17	5°♉59'10	
evening set	-8300 Jun 22 j 00:16	13°♉04'37	
conjunction	-8300 Jul 08 j 23:45	15°♉01'42	0°55'15
minimum elong	-8300 Jul 08 j 23:42	15°♉01'41	0°55'35
	-8300 Jul 08 j 17:53	15°♉	
max. Earth dist.	-8300 Jul 08 j 16:00	14°♉59'27	11.15790 AU
morning rise	-8300 Jul 25 j 18:21	16°♉57'27	
retrograde	-8300 Oct 31 j 17:10	23°♉41'02	
opposition	-8299 Jan 09 j 01:29	20°♉25'37	1°22'43
min. Earth dist.	-8299 Jan 09 j 09:27	20°♉24'09	9.19393 AU
direct	-8299 Mar 22 j 01:09	17°♉04'29	
evening set	-8299 Jul 03 j 08:06	24°♉04'42	
conjunction	-8299 Jul 20 j 03:21	26°♉00'01	1°20'21
minimum elong	-8299 Jul 20 j 03:18	26°♉00'00	1°20'46
max. Earth dist.	-8299 Jul 19 j 15:43	25°♉56'40	11.22241 AU
morning rise	-8299 Aug 05 j 18:17	27°♉54'12	
	-8299 Aug 25 j 01:55	0°♊	
retrograde	-8299 Nov 11 j 20:03	4°♊35'51	
opposition	-8298 Jan 20 j 15:16	1°♊20'45	1°51'27
min. Earth dist.	-8298 Jan 21 j 03:11	1°♊18'34	9.24491 AU
	-8298 Feb 08 j 13:07	30°℞♉	
direct	-8298 Apr 02 j 16:25	28°♉00'26	
	-8298 May 24 j 06:26	0°♊	
evening set	-8298 Jul 14 j 11:19	4°♊57'02	
max. Earth dist.	-8298 Jul 30 j 10:42	6°♊46'28	11.25828 AU
conjunction	-8298 Jul 31 j 02:34	6°♊51'01	1°42'18
minimum elong	-8298 Jul 31 j 02:31	6°♊51'00	1°42'47

morning rise	-8298 Aug 16 j 14:25	8°♊44'06	
retrograde	-8298 Nov 23 j 00:21	15°♊25'55	
opposition	-8297 Feb 01 j 04:19	12°♊10'47	2°15'59
min. Earth dist.	-8297 Feb 01 j 19:11	12°♊08'04	9.26661 AU
direct	-8297 Apr 14 j 06:38	8°♊51'07	
evening set	-8297 Jul 25 j 11:23	15°♊45'40	
conjunction	-8297 Aug 10 j 23:21	17°♊38'51	2°00'31
minimum elong	-8297 Aug 10 j 23:18	17°♊38'50	2°01'02
max. Earth dist.	-8297 Aug 10 j 05:00	17°♊33'33	11.26460 AU
morning rise	-8297 Aug 27 j 08:41	19°♊31'21	
retrograde	-8297 Dec 04 j 06:52	26°♊15'19	
opposition	-8296 Feb 12 j 18:20	22°♊59'49	2°35'42
min. Earth dist.	-8296 Feb 13 j 10:38	22°♊56'51	9.25842 AU
direct	-8296 Apr 24 j 17:25	19°♊40'40	
evening set	-8296 Aug 04 j 09:56	26°♊34'42	
conjunction	-8296 Aug 20 j 19:30	28°♊27'36	2°14'26
minimum elong	-8296 Aug 20 j 19:27	28°♊27'35	2°14'59
max. Earth dist.	-8296 Aug 19 j 23:50	28°♊21'55	11.24113 AU
	-8296 Sep 03 j 04:21	0°♋	
morning rise	-8296 Sep 06 j 03:02	0°♋20'05	
retrograde	-8296 Dec 14 j 18:48	7°♋08'07	
opposition	-8295 Feb 23 j 10:37	3°♋52'00	2°50'00
min. Earth dist.	-8295 Feb 24 j 04:34	3°♋48'44	9.22051 AU
direct	-8295 May 06 j 03:35	0°♋33'11	
evening set	-8295 Aug 15 j 09:07	7°♋28'13	
conjunction	-8295 Aug 31 j 16:57	9°♋21'26	2°23'37
minimum elong	-8295 Aug 31 j 16:56	9°♋21'26	2°24'09
max. Earth dist.	-8295 Aug 30 j 19:13	9°♋15'06	11.18858 AU
morning rise	-8295 Sep 16 j 23:50	11°♋14'29	
retrograde	-8295 Dec 26 j 09:29	18°♋08'23	
opposition	-8294 Mar 07 j 06:22	14°♋51'23	2°58'19
min. Earth dist.	-8294 Mar 08 j 02:05	14°♋47'47	9.15397 AU
direct	-8294 May 17 j 13:05	11°♋32'41	
evening set	-8294 Aug 26 j 10:25	18°♋30'15	
conjunction	-8294 Sep 11 j 17:33	20°♋24'21	2°27'34
minimum elong	-8294 Sep 11 j 17:33	20°♋24'21	2°28'06
max. Earth dist.	-8294 Sep 10 j 18:26	20°♋17'34	11.10855 AU
morning rise	-8294 Sep 28 j 00:55	22°♋18'35	
retrograde	-8293 Jan 07 j 07:49	29°♋20'10	
opposition	-8293 Mar 19 j 07:11	26°♋01'59	3°00'08
min. Earth dist.	-8293 Mar 20 j 03:27	25°♋58'15	9.06084 AU
direct	-8293 May 29 j 03:45	22°♋43'13	
evening set	-8293 Sep 06 j 15:26	29°♋44'44	
	-8293 Sep 08 j 19:50	0°♌	
conjunction	-8293 Sep 22 j 23:13	1°♌40'21	2°25'56
minimum elong	-8293 Sep 22 j 23:14	1°♌40'21	2°26'27
max. Earth dist.	-8293 Sep 22 j 00:58	1°♌33'44	11.00347 AU
morning rise	-8293 Oct 09 j 08:04	3°♌36'23	
retrograde	-8292 Jan 19 j 15:48	10°♌47'16	
opposition	-8292 Mar 30 j 14:06	7°♌27'38	2°54'57
min. Earth dist.	-8292 Mar 31 j 09:13	7°♌24'06	8.94409 AU
direct	-8292 Jun 08 j 21:28	4°♌08'38	
evening set	-8292 Sep 17 j 02:24	11°♌15'27	
conjunction	-8292 Oct 03 j 12:00	13°♌13'12	2°18'25
minimum elong	-8292 Oct 03 j 12:03	13°♌13'13	2°18'52
max. Earth dist.	-8292 Oct 02 j 15:09	13°♌06'55	10.87683 AU
	-8292 Oct 18 j 08:07	15°♌	
morning rise	-8292 Oct 19 j 23:30	15°♌11'39	
retrograde	-8291 Jan 31 j 08:22	22°♌33'15	
opposition	-8291 Apr 12 j 04:01	19°♌12'00	2°42'26
min. Earth dist.	-8291 Apr 12 j 21:26	19°♌08'44	8.80781 AU

Attention, astronomical year style is used: The year -8291 in astronomical counting style is the year 8292 BCE in historical counting style.

direct	-8291 Jun 20 j 19:43	15°♌52'32	
evening set	-8291 Sep 28 j 21:06	23°♌06'02	
conjunction	-8291 Oct 15 j 09:31	25°♌06'28	2°04'50
minimum elong	-8291 Oct 15 j 09:34	25°♌06'29	2°05'13
max. Earth dist.	-8291 Oct 14 j 13:48	25°♌00'26	10.73328 AU
morning rise	-8291 Nov 01 j 00:57	27°♌07'55	
	-8291 Nov 26 j 05:06	0°♍	
retrograde	-8290 Feb 13 j 11:55	4°♍41'25	
opposition	-8290 Apr 25 j 02:08	1°♍18'25	2°22'23
min. Earth dist.	-8290 Apr 25 j 17:44	1°♍15'27	8.65722 AU
	-8290 May 12 j 18:28	30°℞♌	
direct	-8290 Jul 03 j 01:09	27°♌58'16	
	-8290 Aug 21 j 02:11	0°♍	
evening set	-8290 Oct 11 j 01:10	5°♍19'39	
conjunction	-8290 Oct 27 j 17:26	7°♍23'16	1°45'15
minimum elong	-8290 Oct 27 j 17:30	7°♍23'17	1°45'31
max. Earth dist.	-8290 Oct 26 j 24:00	7°♍17'51	10.57855 AU
morning rise	-8290 Nov 13 j 13:50	9°♍28'13	
retrograde	-8289 Feb 27 j 01:50	17°♍14'29	
opposition	-8289 May 08 j 08:58	13°♍49'37	1°54'57
min. Earth dist.	-8289 May 08 j 22:08	13°♍47'05	8.49872 AU
direct	-8289 Jul 15 j 14:21	10°♍28'37	
evening set	-8289 Oct 23 j 16:32	17°♍58'58	
conjunction	-8289 Nov 09 j 13:42	20°♍06'10	1°19'59
minimum elong	-8289 Nov 09 j 13:45	20°♍06'11	1°20'08
max. Earth dist.	-8289 Nov 09 j 00:15	20°♍01'55	10.41930 AU
morning rise	-8289 Nov 26 j 15:43	22°♍14'57	
	-8288 Feb 24 j 08:26	0°♎	
retrograde	-8288 Mar 12 j 01:34	0°♎14'19	
	-8288 Mar 28 j 22:20	30°℞♍	
opposition	-8288 May 21 j 00:29	26°♍47'35	1°20'42
min. Earth dist.	-8288 May 21 j 10:02	26°♍45'43	8.33950 AU
direct	-8288 Jul 27 j 14:25	23°♍25'31	
	-8288 Oct 27 j 00:42	0°♎	
evening set	-8288 Nov 04 j 20:37	1°♎05'41	
conjunction	-8288 Nov 21 j 23:19	3°♎16'43	0°49'47
minimum elong	-8288 Nov 21 j 23:21	3°♎16'43	0°49'49
max. Earth dist.	-8288 Nov 21 j 14:48	3°♎13'58	10.26280 AU
morning rise	-8288 Dec 09 j 07:15	5°♎29'28	
retrograde	-8287 Mar 26 j 13:15	13°♎41'43	
opposition	-8287 Jun 04 j 00:42	10°♎13'10	0°40'47
min. Earth dist.	-8287 Jun 04 j 05:51	10°♎12'09	8.18699 AU
direct	-8287 Aug 09 j 23:24	6°♎49'56	
evening set	-8287 Nov 18 j 14:34	14°♎40'29	
conjunction	-8287 Dec 05 j 22:51	16°♎55'18	0°15'55
minimum elong	-8287 Dec 05 j 22:52	16°♎55'18	0°15'49
behind sun begin	-8287 Dec 05 j 21:40	16°♎54'55	
behind sun end	-8287 Dec 06 j 00:05	16°♎55'42	
max. Earth dist.	-8287 Dec 05 j 19:25	16°♎54'11	10.11654 AU
morning rise	-8287 Dec 23 j 12:37	19°♎11'59	
retrograde	-8286 Apr 10 j 11:13	27°♎36'09	
desc. node	-8286 May 24 j 13:28	25°♎59'41	
opposition	-8286 Jun 18 j 09:03	24°♎06'03	-0°02'57
min. Earth dist.	-8286 Jun 18 j 09:24	24°♎05'59	8.04905 AU
direct	-8286 Aug 23 j 17:07	20°♎41'34	
evening set	-8286 Dec 02 j 22:54	28°♎42'43	
	-8286 Dec 12 j 19:29	0°♏	
conjunction	-8286 Dec 20 j 12:31	1°♏01'03	-0°19'55
minimum elong	-8286 Dec 20 j 12:30	1°♏01'03	0°20'08
max. Earth dist.	-8286 Dec 20 j 14:12	1°♏01'36	9.98892 AU
morning rise	-8285 Jan 07 j 07:40	3°♏21'16	

retrograde	-8285 Apr 25 j 17:10	11°♏55'32	
opposition	-8285 Jul 03 j 00:24	8°♏24'12	-0°47'55
min. Earth dist.	-8285 Jul 02 j 20:12	8°♏25'04	7.93471 AU
direct	-8285 Sep 06 j 20:45	4°♏58'25	
evening set	-8285 Dec 17 j 21:05	13°♏09'38	
	-8285 Dec 31 j 18:43	15°♏	
conjunction	-8284 Jan 04 j 15:24	15°♏30'54	-0°55'18
minimum elong	-8284 Jan 04 j 15:21	15°♏30'53	0°55'39
max. Earth dist.	-8284 Jan 04 j 22:37	15°♏33'19	9.88922 AU
morning rise	-8284 Jan 22 j 14:57	17°♏53'55	
retrograde	-8284 May 10 j 03:45	26°♏35'15	
opposition	-8284 Jul 16 j 20:54	23°♏03'07	-1°30'55
min. Earth dist.	-8284 Jul 16 j 12:29	23°♏04'52	7.85283 AU
direct	-8284 Sep 20 j 11:02	19°♏36'02	
evening set	-8283 Jan 01 j 07:05	27°♏55'46	
	-8283 Jan 16 j 20:11	0°♐	
conjunction	-8283 Jan 19 j 05:06	0°♐19'06	-1°27'44
minimum elong	-8283 Jan 19 j 05:01	0°♐19'04	1°28'11
max. Earth dist.	-8283 Jan 19 j 17:54	0°♐23'23	9.82548 AU
morning rise	-8283 Feb 06 j 07:38	2°♐43'52	
retrograde	-8283 May 25 j 14:26	11°♐28'18	
opposition	-8283 Jul 31 j 19:54	7°♐55'49	-2°08'31
min. Earth dist.	-8283 Jul 31 j 07:45	7°♐58'22	7.81011 AU
direct	-8283 Oct 05 j 08:46	4°♐27'33	
evening set	-8282 Jan 17 j 01:20	12°♐53'18	
conjunction	-8282 Feb 04 j 01:57	15°♐17'37	-1°54'35
minimum elong	-8282 Feb 04 j 01:53	15°♐17'35	1°55'07
max. Earth dist.	-8282 Feb 04 j 19:50	15°♐23'37	9.80314 AU
morning rise	-8282 Feb 22 j 06:01	17°♐42'58	
retrograde	-8282 Jun 09 j 22:05	26°♐26'00	
opposition	-8282 Aug 15 j 18:36	22°♐53'41	-2°37'35
min. Earth dist.	-8282 Aug 15 j 03:22	22°♐56'54	7.81004 AU
direct	-8282 Oct 20 j 10:52	19°♐24'26	
evening set	-8281 Feb 01 j 23:19	27°♐52'55	
	-8281 Feb 17 j 22:15	0°♑	
conjunction	-8281 Feb 20 j 01:29	0°♑17'08	-2°13'46
minimum elong	-8281 Feb 20 j 01:26	0°♑17'07	2°14'19
max. Earth dist.	-8281 Feb 20 j 23:25	0°♑24'28	9.82408 AU
morning rise	-8281 Mar 10 j 05:42	2°♑41'54	
retrograde	-8281 Jun 24 j 23:49	11°♑18'59	
opposition	-8281 Aug 30 j 14:02	7°♑47'22	-2°55'49
min. Earth dist.	-8281 Aug 29 j 20:25	7°♑51'04	7.85243 AU
direct	-8281 Nov 04 j 14:27	4°♑17'24	
evening set	-8280 Feb 17 j 20:14	12°♑45'03	
conjunction	-8280 Mar 06 j 22:54	15°♑08'08	-2°23'53
minimum elong	-8280 Mar 06 j 22:53	15°♑08'07	2°24'26
max. Earth dist.	-8280 Mar 07 j 23:27	15°♑16'16	9.88647 AU
morning rise	-8280 Mar 25 j 02:05	17°♑31'15	
retrograde	-8280 Jul 08 j 16:39	25°♑58'26	
min. Earth dist.	-8280 Sep 12 j 08:29	22°♑31'57	7.93378 AU
opposition	-8280 Sep 13 j 03:31	22°♑27'58	-3°02'11
direct	-8280 Nov 18 j 16:01	18°♑57'39	
evening set	-8279 Mar 04 j 11:07	27°♑20'56	
conjunction	-8279 Mar 22 j 13:26	29°♑42'03	-2°24'37
minimum elong	-8279 Mar 22 j 13:27	29°♑42'03	2°25'07
max. Earth dist.	-8279 Mar 23 j 14:59	29°♑50'25	9.98545 AU
	-8279 Mar 24 j 20:17	0°♒	
morning rise	-8279 Apr 09 j 14:44	2°♒02'45	
retrograde	-8279 Jul 22 j 23:12	10°♒17'06	
opposition	-8279 Sep 27 j 09:16	6°♒48'09	-2°56'54
min. Earth dist.	-8279 Sep 26 j 14:03	6°♒52'09	8.04798 AU

Attention, astronomical year style is used: The year -8279 in astronomical counting style is the year 8280 BCE in historical counting style.

direct	-8279 Dec 03 j 13:03	3°♒17'54	
evening set	-8278 Mar 19 j 16:04	11°♒33'47	
conjunction	-8278 Apr 06 j 17:18	13°♒52'20	-2°16'28
minimum elong	-8278 Apr 06 j 17:21	13°♒52'21	2°16'54
max. Earth dist.	-8278 Apr 07 j 18:09	14°♒00'20	10.11374 AU
	-8278 Apr 15 j 11:45	15°♒	
morning rise	-8278 Apr 24 j 16:07	16°♒10'03	
retrograde	-8278 Aug 05 j 17:02	24°♒09'54	
min. Earth dist.	-8278 Oct 10 j 11:59	20°♒46'27	8.18700 AU
opposition	-8278 Oct 11 j 05:54	20°♒42'46	-2°41'15
direct	-8278 Dec 18 j 03:01	17°♒12'56	
evening set	-8277 Apr 03 j 08:58	25°♒19'20	
conjunction	-8277 Apr 21 j 08:22	27°♒34'54	-2°00'41
minimum elong	-8277 Apr 21 j 08:26	27°♒34'55	2°01'02
max. Earth dist.	-8277 Apr 22 j 06:43	27°♒41'58	10.26261 AU
morning rise	-8277 May 09 j 04:12	29°♒49'18	
	-8277 May 10 j 14:51	0°♓	
retrograde	-8277 Aug 18 j 22:33	7°♓34'10	
opposition	-8277 Oct 24 j 16:51	4°♓09'01	-2°17'12
min. Earth dist.	-8277 Oct 24 j 01:43	4°♓12'05	8.34206 AU
direct	-8276 Jan 01 j 07:51	0°♓39'56	
evening set	-8276 Apr 16 j 12:22	8°♓35'38	
conjunction	-8276 May 04 j 09:12	10°♓48'01	-1°38'54
minimum elong	-8276 May 04 j 09:16	10°♓48'02	1°39'08
max. Earth dist.	-8276 May 05 j 03:23	10°♓53'40	10.42303 AU
morning rise	-8276 May 22 j 01:43	12°♓59'00	
retrograde	-8276 Aug 30 j 16:43	20°♓29'26	
opposition	-8276 Nov 05 j 18:26	17°♓06'19	-1°46'58
min. Earth dist.	-8276 Nov 05 j 06:22	17°♓08'44	8.50443 AU
direct	-8275 Jan 14 j 02:51	13°♓38'18	
evening set	-8275 Apr 30 j 01:50	21°♓22'54	
conjunction	-8275 May 17 j 19:31	23°♓32'02	-1°12'51
minimum elong	-8275 May 17 j 19:34	23°♓32'03	1°12'58
max. Earth dist.	-8275 May 18 j 08:42	23°♓36'03	10.58638 AU
morning rise	-8275 Jun 04 j 08:26	25°♓39'39	
	-8275 Jul 14 j 12:08	0°♈	
retrograde	-8275 Sep 11 j 22:52	2°♈57'01	
	-8275 Nov 13 j 07:20	30°℞♓	
opposition	-8275 Nov 18 j 11:00	29°♓35'50	-1°12'43
min. Earth dist.	-8275 Nov 18 j 01:56	29°♓37'37	8.66585 AU
direct	-8274 Jan 27 j 13:08	26°♓09'04	
	-8274 Apr 09 j 01:03	0°♈	
evening set	-8274 May 13 j 02:23	3°♈42'57	
conjunction	-8274 May 30 j 16:31	5°♈48'55	-0°44'12
minimum elong	-8274 May 30 j 16:33	5°♈48'56	0°44'12
max. Earth dist.	-8274 May 31 j 00:58	5°♈51'27	10.74478 AU
morning rise	-8274 Jun 17 j 01:29	7°♈53'19	
retrograde	-8274 Sep 23 j 21:50	14°♈59'23	
opposition	-8274 Nov 30 j 19:28	11°♈40'00	-0°36'27
min. Earth dist.	-8274 Nov 30 j 13:30	11°♈41'10	8.81891 AU
direct	-8273 Feb 09 j 12:47	8°♈14'39	
evening set	-8273 May 25 j 15:08	15°♈38'38	
conjunction	-8273 Jun 12 j 01:19	17°♈41'38	-0°14'26
minimum elong	-8273 Jun 12 j 01:20	17°♈41'38	0°14'20
behind sun begin	-8273 Jun 11 j 22:04	17°♈40'41	
behind sun end	-8273 Jun 12 j 04:36	17°♈42'36	
max. Earth dist.	-8273 Jun 12 j 05:43	17°♈42'56	10.89128 AU
morning rise	-8273 Jun 29 j 05:59	19°♈43'03	
retrograde	-8273 Oct 05 j 14:26	26°♈39'52	
asc. node	-8273 Dec 11 j 00:19	23°♈30'41	
opposition	-8273 Dec 12 j 21:33	23°♈22'05	0°00'11
min. Earth dist.	-8273 Dec 12 j 19:33	23°♈22'28	8.95734 AU
direct	-8272 Feb 22 j 01:48	19°♈58'10	
evening set	-8272 Jun 05 j 17:25	27°♈13'25	
conjunction	-8272 Jun 22 j 23:15	29°♈13'43	0°15'14
minimum elong	-8272 Jun 22 j 23:15	29°♈13'43	0°15'26
behind sun begin	-8272 Jun 22 j 21:14	29°♈13'08	
behind sun end	-8272 Jun 23 j 01:15	29°♈14'18	
max. Earth dist.	-8272 Jun 22 j 23:06	29°♈13'40	11.02013 AU
	-8272 Jun 29 j 13:22	0°♉	
morning rise	-8272 Jul 09 j 23:40	1°♉12'31	
retrograde	-8272 Oct 15 j 23:58	8°♉02'14	
opposition	-8272 Dec 23 j 18:23	4°♉45'47	0°35'46
min. Earth dist.	-8272 Dec 23 j 20:50	4°♉45'20	9.07600 AU
direct	-8271 Mar 05 j 08:07	1°♉23'13	
evening set	-8271 Jun 17 j 11:05	8°♉31'09	
conjunction	-8271 Jul 04 j 12:21	10°♉29'04	0°43'36
minimum elong	-8271 Jul 04 j 12:20	10°♉29'04	0°43'53
max. Earth dist.	-8271 Jul 04 j 06:52	10°♉27'29	11.12680 AU
morning rise	-8271 Jul 21 j 08:46	12°♉25'37	
	-8271 Aug 14 j 04:34	15°♉	
retrograde	-8271 Oct 27 j 06:11	19°♉10'23	
opposition	-8270 Jan 04 j 11:04	15°♉54'56	1°09'11
min. Earth dist.	-8270 Jan 04 j 17:26	15°♉53'45	9.17070 AU
	-8270 Jan 16 j 23:38	15°℞♉	
direct	-8270 Mar 17 j 07:59	12°♉33'36	
	-8270 May 13 j 15:45	15°♉	
evening set	-8270 Jun 28 j 21:34	19°♉35'43	
conjunction	-8270 Jul 15 j 18:30	21°♉31'39	1°09'51
minimum elong	-8270 Jul 15 j 18:28	21°♉31'39	1°10'14
max. Earth dist.	-8270 Jul 15 j 08:35	21°♉28'47	11.20767 AU
morning rise	-8270 Aug 01 j 11:07	23°♉26'24	
	-8270 Oct 25 j 13:20	0°♊	
retrograde	-8270 Nov 07 j 10:09	0°♊08'21	
	-8270 Nov 20 j 10:37	30°℞♉	
opposition	-8269 Jan 16 j 01:19	26°♉53'30	1°39'29
min. Earth dist.	-8269 Jan 16 j 10:28	26°♉51'50	9.23813 AU
direct	-8269 Mar 29 j 02:31	23°♉33'16	
	-8269 Jul 05 j 11:17	0°♊	
evening set	-8269 Jul 10 j 02:32	0°♊31'02	
conjunction	-8269 Jul 26 j 19:30	2°♊25'26	1°33'14
minimum elong	-8269 Jul 26 j 19:28	2°♊25'25	1°33'42
max. Earth dist.	-8269 Jul 26 j 06:47	2°♊21'46	11.25998 AU
morning rise	-8269 Aug 12 j 08:33	4°♊18'49	
retrograde	-8269 Nov 18 j 16:17	11°♊00'01	
opposition	-8268 Jan 27 j 14:35	7°♊45'26	2°05'54
min. Earth dist.	-8268 Jan 28 j 02:50	7°♊43'12	9.27601 AU
direct	-8268 Apr 08 j 17:06	4°♊26'05	
evening set	-8268 Jul 20 j 03:51	11°♊21'02	
conjunction	-8268 Aug 05 j 17:13	13°♊14'23	1°53'08
minimum elong	-8268 Aug 05 j 17:10	13°♊14'22	1°53'38
max. Earth dist.	-8268 Aug 05 j 01:02	13°♊09'44	11.28196 AU
morning rise	-8268 Aug 22 j 03:23	15°♊06'56	
retrograde	-8268 Nov 28 j 20:30	21°♊49'21	
opposition	-8267 Feb 07 j 04:03	18°♊34'39	2°27'45
min. Earth dist.	-8267 Feb 07 j 19:54	18°♊31'46	9.28295 AU
direct	-8267 Apr 20 j 02:51	15°♊15'54	
evening set	-8267 Jul 31 j 03:00	22°♊09'38	
conjunction	-8267 Aug 16 j 13:22	24°♊02'27	2°08'57
minimum elong	-8267 Aug 16 j 13:19	24°♊02'26	2°09'30
max. Earth dist.	-8267 Aug 15 j 17:18	23°♊56'40	11.27260 AU
morning rise	-8267 Sep 01 j 21:37	25°♊54'44	

Attention, astronomical year style is used: The year -8267 in astronomical counting style is the year 8268 BCE in historical counting style.

	-8267 Oct 12 j 05:17	0°♋	
retrograde	-8267 Dec 10 j 05:01	2°♋40'21	
	-8266 Feb 10 j 17:54	30°℞♊	
opposition	-8266 Feb 18 j 19:04	29°♊25'09	2°44'26
min. Earth dist.	-8266 Feb 19 j 13:36	29°♊21'48	9.25800 AU
direct	-8266 May 01 j 14:26	26°♊06'46	
	-8266 Jul 13 j 16:49	0°♋	
evening set	-8266 Aug 11 j 01:43	3°♋00'53	
conjunction	-8266 Aug 27 j 10:03	4°♋53'45	2°20'13
minimum elong	-8266 Aug 27 j 10:01	4°♋53'45	2°20'46
max. Earth dist.	-8266 Aug 26 j 12:06	4°♋47'24	11.23150 AU
morning rise	-8266 Sep 12 j 17:06	6°♋46'21	
retrograde	-8266 Dec 21 j 18:17	13°♋37'08	
opposition	-8265 Mar 02 j 13:06	10°♋21'06	2°55'24
min. Earth dist.	-8265 Mar 03 j 08:47	10°♋17'31	9.20153 AU
direct	-8265 May 13 j 00:49	7°♋02'53	
evening set	-8265 Aug 22 j 01:49	13°♋58'55	
max. Earth dist.	-8265 Sep 06 j 10:29	15°♋45'49	11.16001 AU
conjunction	-8265 Sep 07 j 09:12	15°♋52'28	2°26'29
minimum elong	-8265 Sep 07 j 09:12	15°♋52'27	2°27'01
morning rise	-8265 Sep 23 j 16:01	17°♋45'59	
retrograde	-8264 Jan 02 j 14:43	24°♋43'47	
opposition	-8264 Mar 13 j 11:38	21°♋26'34	3°00'05
min. Earth dist.	-8264 Mar 14 j 07:51	21°♋22'52	9.11575 AU
direct	-8264 May 23 j 13:23	18°♋08'16	
evening set	-8264 Sep 01 j 05:06	25°♋07'41	
conjunction	-8264 Sep 17 j 12:29	27°♋02'31	2°27'19
minimum elong	-8264 Sep 17 j 12:30	27°♋02'31	2°27'50
max. Earth dist.	-8264 Sep 16 j 12:37	26°♋55'28	11.06100 AU
morning rise	-8264 Oct 03 j 20:25	28°♋57'37	
	-8264 Oct 12 j 23:10	0°♌	
retrograde	-8263 Jan 13 j 18:24	6°♌04'04	
opposition	-8263 Mar 25 j 15:48	2°♌45'23	2°58'01
min. Earth dist.	-8263 Mar 26 j 12:41	2°♌41'32	9.00395 AU
	-8263 May 08 j 19:45	30°℞♋	
direct	-8263 Jun 04 j 04:23	29°♋26'42	
	-8263 Jun 30 j 03:21	0°♌	
evening set	-8263 Sep 12 j 13:24	6°♌30'57	
conjunction	-8263 Sep 28 j 21:54	8°♌27'39	2°22'24
minimum elong	-8263 Sep 28 j 21:56	8°♌27'40	2°22'52
max. Earth dist.	-8263 Sep 27 j 21:54	8°♌20'28	10.93814 AU
morning rise	-8263 Oct 15 j 08:11	10°♌24'57	
	-8263 Nov 28 j 05:27	15°♌	
retrograde	-8262 Jan 26 j 04:35	17°♌41'35	
	-8262 Mar 29 j 08:39	15°℞♌	
opposition	-8262 Apr 07 j 02:31	14°♌21'09	2°48'45
min. Earth dist.	-8262 Apr 07 j 22:56	14°♌17'21	8.87028 AU
direct	-8262 Jun 16 j 00:45	11°♌01'51	
	-8262 Aug 26 j 09:43	15°♌	
evening set	-8262 Sep 24 j 04:21	18°♌12'19	
conjunction	-8262 Oct 10 j 15:20	20°♌11'30	2°11'29
minimum elong	-8262 Oct 10 j 15:23	20°♌11'31	2°11'53
max. Earth dist.	-8262 Oct 09 j 17:18	20°♌04'48	10.79598 AU
morning rise	-8262 Oct 27 j 04:58	22°♌11'35	
retrograde	-8261 Feb 08 j 03:13	29°♌39'46	
opposition	-8261 Apr 19 j 20:59	26°♌17'23	2°32'03
min. Earth dist.	-8261 Apr 20 j 15:12	26°♌13'56	8.71987 AU
direct	-8261 Jun 28 j 04:58	22°♌57'17	
	-8261 Oct 04 j 01:30	0°♍	
evening set	-8261 Oct 06 j 03:51	0°♍15'10	
conjunction	-8261 Oct 22 j 18:29	2°♍17'24	1°54'30
minimum elong	-8261 Oct 22 j 18:32	2°♍17'25	1°54'49
max. Earth dist.	-8261 Oct 21 j 23:33	2°♍11'33	10.64002 AU
morning rise	-8261 Nov 08 j 12:31	4°♍20'49	
retrograde	-8260 Feb 21 j 12:50	12°♍01'35	
opposition	-8260 May 01 j 23:50	8°♍37'08	2°07'50
min. Earth dist.	-8260 May 02 j 14:38	8°♍34'18	8.55879 AU
direct	-8260 Jul 09 j 14:24	5°♍16'05	
evening set	-8260 Oct 17 j 14:05	12°♍42'37	
conjunction	-8260 Nov 03 j 09:10	14°♍48'20	1°31'40
minimum elong	-8260 Nov 03 j 09:13	14°♍48'21	1°31'52
max. Earth dist.	-8260 Nov 02 j 17:11	14°♍43'19	10.47680 AU
morning rise	-8260 Nov 20 j 08:34	16°♍55'30	
retrograde	-8259 Mar 06 j 09:01	24°♍49'27	
opposition	-8259 May 15 j 11:25	21°♍22'58	1°36'28
min. Earth dist.	-8259 May 15 j 22:45	21°♍20'45	8.39420 AU
direct	-8259 Jul 22 j 08:32	18°♍00'48	
evening set	-8259 Oct 30 j 12:30	25°♍37'02	
conjunction	-8259 Nov 16 j 12:41	27°♍46'33	1°03'30
minimum elong	-8259 Nov 16 j 12:44	27°♍46'34	1°03'35
max. Earth dist.	-8259 Nov 16 j 00:24	27°♍42'38	10.31391 AU
morning rise	-8259 Dec 03 j 18:04	29°♍57'45	
	-8259 Dec 04 j 01:17	0°♎	
retrograde	-8258 Mar 20 j 16:16	8°♎04'58	
opposition	-8258 May 29 j 08:10	4°♎36'33	0°58'49
min. Earth dist.	-8258 May 29 j 15:40	4°♎35'04	8.23423 AU
direct	-8258 Aug 04 j 12:53	1°♎13'11	
evening set	-8258 Nov 13 j 00:15	8°♎59'48	
conjunction	-8258 Nov 30 j 06:01	11°♎13'11	0°31'02
minimum elong	-8258 Nov 30 j 06:03	11°♎13'11	0°30'59
max. Earth dist.	-8258 Nov 29 j 22:46	11°♎10'50	10.15970 AU
morning rise	-8258 Dec 17 j 17:31	13°♎28'25	
retrograde	-8257 Apr 04 j 09:49	21°♎48'16	
opposition	-8257 Jun 12 j 13:32	18°♎18'09	0°16'25
min. Earth dist.	-8257 Jun 12 j 16:42	18°♎17'31	8.08764 AU
direct	-8257 Aug 18 j 03:30	14°♎53'31	
desc. node	-8257 Oct 30 j 11:09	19°♎29'00	
evening set	-8257 Nov 27 j 02:31	22°♎50'47	
conjunction	-8257 Dec 14 j 13:54	25°♎07'52	-0°04'18
minimum elong	-8257 Dec 14 j 13:54	25°♎07'52	0°04'28
behind sun begin	-8257 Dec 14 j 06:48	25°♎05'33	
behind sun end	-8257 Dec 14 j 21:00	25°♎10'11	
max. Earth dist.	-8257 Dec 14 j 12:56	25°♎07'34	10.02294 AU
morning rise	-8256 Jan 01 j 07:03	27°♎26'51	
	-8256 Jan 21 j 19:40	0°♏	
retrograde	-8256 Apr 18 j 11:43	5°♏57'41	
opposition	-8256 Jun 26 j 02:15	2°♏26'11	-0°28'26
min. Earth dist.	-8256 Jun 26 j 00:29	2°♏26'32	7.96327 AU
	-8256 Jul 29 j 05:49	30°℞♎	
direct	-8256 Aug 31 j 04:30	29°♎00'17	
	-8256 Oct 02 j 13:44	0°♏	
evening set	-8256 Dec 10 j 18:58	7°♏07'52	
conjunction	-8256 Dec 28 j 11:28	9°♏28'10	-0°40'09
minimum elong	-8256 Dec 28 j 11:26	9°♏28'10	0°40'26
max. Earth dist.	-8256 Dec 28 j 17:14	9°♏30'05	9.91229 AU
morning rise	-8255 Jan 15 j 09:21	11°♏50'16	
	-8255 Feb 09 j 19:45	15°♏	
retrograde	-8255 May 03 j 19:48	20°♏29'30	
opposition	-8255 Jul 10 j 20:58	16°♏57'02	-1°12'45
min. Earth dist.	-8255 Jul 10 j 13:53	16°♏58'30	7.86935 AU
	-8255 Aug 04 j 21:45	15°℞♏	
direct	-8255 Sep 14 j 15:04	13°♏29'57	
	-8255 Oct 24 j 10:54	15°♏	

Attention, astronomical year style is used: The year -8255 in astronomical counting style is the year 8256 BCE in historical counting style.

evening set	-8255 Dec 26 j 00:02	21°♏46'38		
conjunction	-8254 Jan 12 j 20:45	24°♏09'22	-1°14'12	
minimum elong	-8254 Jan 12 j 20:41	24°♏09'21	1°14'37	
max. Earth dist.	-8254 Jan 13 j 09:07	24°♏13'31	9.83552 AU	
morning rise	-8254 Jan 30 j 22:08	26°♏33'39		
	-8254 Feb 27 j 12:35	0°♐		
retrograde	-8254 May 19 j 06:45	5°♐17'44		
opposition	-8254 Jul 25 j 19:21	1°♐44'49	-1°53'08	
min. Earth dist.	-8254 Jul 25 j 07:24	1°♐47'19	7.81271 AU	
	-8254 Aug 16 j 16:51	30°℞♏		
direct	-8254 Sep 29 j 08:55	28°♏16'39		
	-8254 Nov 11 j 03:15	0°♐		
evening set	-8253 Jan 10 j 15:14	6°♐40'24		
conjunction	-8253 Jan 28 j 15:03	9°♐04'33	-1°43'47	
minimum elong	-8253 Jan 28 j 14:58	9°♐04'32	1°44'16	
max. Earth dist.	-8253 Jan 29 j 09:17	9°♐10'41	9.79861 AU	
morning rise	-8253 Feb 15 j 18:32	11°♐29'54		
retrograde	-8253 Jun 03 j 17:13	20°♐14'28		
opposition	-8253 Aug 09 j 18:33	16°♐41'41	-2°26'14	
min. Earth dist.	-8253 Aug 09 j 02:46	16°♐45'00	7.79778 AU	
direct	-8253 Oct 14 j 08:02	13°♐12'37		
evening set	-8252 Jan 26 j 12:26	21°♐40'33		
conjunction	-8252 Feb 13 j 14:11	24°♐05'02	-2°06'30	
minimum elong	-8252 Feb 13 j 14:07	24°♐05'00	2°07'03	
max. Earth dist.	-8252 Feb 14 j 12:57	24°♐12'40	9.80464 AU	
morning rise	-8252 Mar 02 j 18:22	26°♐30'15		
	-8252 Mar 30 j 20:28	0°♑		
retrograde	-8252 Jun 17 j 23:40	5°♑10'44		
opposition	-8252 Aug 23 j 15:56	1°♑38'38	-2°49'20	
min. Earth dist.	-8252 Aug 22 j 21:37	1°♑42'29	7.82583 AU	
	-8252 Sep 13 j 00:06	30°℞♐		
direct	-8252 Oct 28 j 10:42	28°♐08'56		
	-8252 Dec 12 j 06:55	0°♑		
evening set	-8251 Feb 10 j 10:35	6°♑37'33		
conjunction	-8251 Feb 28 j 13:06	9°♑01'17	-2°20'37	
minimum elong	-8251 Feb 28 j 13:04	9°♑01'16	2°21'11	
max. Earth dist.	-8251 Mar 01 j 14:44	9°♑09'49	9.85339 AU	
morning rise	-8251 Mar 18 j 16:45	11°♑25'16		
retrograde	-8251 Jul 02 j 22:00	19°♑57'25		
opposition	-8251 Sep 07 j 08:36	16°♑26'30	-3°00'50	
min. Earth dist.	-8251 Sep 06 j 13:12	16°♑30'35	7.89491 AU	
direct	-8251 Nov 12 j 13:32	12°♑56'31		
evening set	-8250 Feb 26 j 04:51	21°♑22'12		
conjunction	-8250 Mar 16 j 07:17	23°♑44'15	-2°25'21	
minimum elong	-8250 Mar 16 j 07:17	23°♑44'15	2°25'54	
max. Earth dist.	-8250 Mar 17 j 09:50	23°♑52'59	9.94143 AU	
morning rise	-8250 Apr 03 j 09:30	26°♑06'06		
	-8250 May 05 j 17:44	0°♒		
retrograde	-8250 Jul 17 j 09:41	4°♒26'26		
opposition	-8250 Sep 21 j 18:09	0°♒57'07	-3°00'24	
min. Earth dist.	-8250 Sep 20 j 22:42	1°♒01'10	7.99999 AU	
	-8250 Oct 03 j 07:51	30°℞♑		
direct	-8250 Nov 27 j 13:47	27°♑27'10		
	-8249 Jan 20 j 18:00	0°♒		
evening set	-8249 Mar 13 j 14:57	5°♒46'38		
conjunction	-8249 Mar 31 j 16:34	8°♒06'18	-2°20'53	
minimum elong	-8249 Mar 31 j 16:37	8°♒06'19	2°21'21	
max. Earth dist.	-8249 Apr 01 j 18:17	8°♒14'38	10.06227 AU	
morning rise	-8249 Apr 18 j 16:39	10°♒25'20		
	-8249 May 28 j 04:38	15°♒		
retrograde	-8249 Jul 31 j 07:56	18°♒31'34		
opposition	-8249 Oct 05 j 19:06	15°♒04'09	-2°48'57	
min. Earth dist.	-8249 Oct 05 j 00:25	15°♒07'59	8.13350 AU	
	-8249 Oct 06 j 15:12	15°℞♒		
direct	-8249 Dec 12 j 08:25	11°♒34'37		
	-8248 Feb 14 j 16:33	15°♒		
evening set	-8248 Mar 27 j 13:39	19°♒45'14		
conjunction	-8248 Apr 14 j 13:44	22°♒02'01	-2°08'10	
minimum elong	-8248 Apr 14 j 13:47	22°♒02'02	2°08'33	
max. Earth dist.	-8248 Apr 15 j 13:12	22°♒09'30	10.20731 AU	
morning rise	-8248 May 02 j 11:02	24°♒17'48		
	-8248 Jun 24 j 09:46	0°♓		
retrograde	-8248 Aug 12 j 18:12	2°♓08'59		
	-8248 Oct 02 j 08:44	30°℞♒		
opposition	-8248 Oct 18 j 10:24	28°♒43'33	-2°28'12	
min. Earth dist.	-8248 Oct 17 j 17:11	28°♒47'03	8.28634 AU	
direct	-8248 Dec 25 j 17:40	25°♒14'44		
	-8247 Mar 13 j 23:45	0°♓		
evening set	-8247 Apr 10 j 23:02	3°♓14'52		
conjunction	-8247 Apr 28 j 20:59	5°♓28'30	-1°48'44	
minimum elong	-8247 Apr 28 j 21:03	5°♓28'31	1°49'01	
max. Earth dist.	-8247 Apr 29 j 17:13	5°♓34'50	10.36689 AU	
morning rise	-8247 May 16 j 15:02	7°♓40'50		
retrograde	-8247 Aug 25 j 17:49	15°♓17'08		
opposition	-8247 Oct 31 j 15:55	11°♓53'42	-2°00'19	
min. Earth dist.	-8247 Oct 31 j 01:19	11°♓56'37	8.44873 AU	
direct	-8246 Jan 08 j 16:39	8°♓25'51		
evening set	-8246 Apr 24 j 18:31	16°♓14'50		
conjunction	-8246 May 12 j 13:45	18°♓25'15	-1°24'17	
minimum elong	-8246 May 12 j 13:49	18°♓25'16	1°24'27	
max. Earth dist.	-8246 May 13 j 05:53	18°♓30'13	10.53096 AU	
morning rise	-8246 May 30 j 04:10	20°♓34'10		
retrograde	-8246 Sep 07 j 06:09	27°♓56'42		
opposition	-8246 Nov 13 j 12:13	24°♓35'16	-1°27'33	
min. Earth dist.	-8246 Nov 13 j 01:41	24°♓37'20	8.61111 AU	
direct	-8245 Jan 22 j 05:46	21°♓08'32		
evening set	-8245 May 08 j 00:48	28°♓46'40		
	-8245 May 18 j 06:07	0°♈		
conjunction	-8245 May 25 j 16:36	0°♈53'53	-0°56'33	
minimum elong	-8245 May 25 j 16:39	0°♈53'54	0°56'36	
max. Earth dist.	-8245 May 26 j 03:23	0°♈57'09	10.69071 AU	
morning rise	-8245 Jun 12 j 03:07	2°♈59'32		
retrograde	-8245 Sep 19 j 08:18	10°♈10'02		
opposition	-8245 Nov 26 j 00:16	6°♈50'27	-0°51'56	
min. Earth dist.	-8245 Nov 25 j 18:13	6°♈51'38	8.76600 AU	
direct	-8244 Feb 04 j 09:46	3°♈24'58		
evening set	-8244 May 19 j 18:47	10°♈52'57		
conjunction	-8244 Jun 06 j 06:37	12°♈57'08	-0°27'05	
minimum elong	-8244 Jun 06 j 06:38	12°♈57'09	0°27'01	
max. Earth dist.	-8244 Jun 06 j 11:30	12°♈58'35	10.83969 AU	
morning rise	-8244 Jun 23 j 13:08	14°♈59'44		
retrograde	-8244 Sep 30 j 02:28	22°♈00'12		
opposition	-8244 Dec 07 j 05:12	18°♈42'11	-0°15'17	
min. Earth dist.	-8244 Dec 07 j 03:06	18°♈42'35	8.90763 AU	
direct	-8243 Feb 16 j 04:11	15°♈17'57		
asc. node	-8243 May 14 j 00:45	20°♈36'20		
evening set	-8243 Jun 01 j 01:31	22°♈36'47		
conjunction	-8243 Jun 18 j 09:09	24°♈38'11	0°02'49	
minimum elong	-8243 Jun 18 j 09:08	24°♈38'10	0°02'59	
behind sun begin	-8243 Jun 18 j 02:04	24°♈36'07		
behind sun end	-8243 Jun 18 j 16:13	24°♈40'14		
max. Earth dist.	-8243 Jun 18 j 08:43	24°♈38'04	10.97258 AU	

Attention, astronomical year style is used: The year -8243 in astronomical counting style is the year 8244 BCE in historical counting style.

morning rise	-8243 Jul 05 j 11:34	26°♈38'03	
	-8243 Aug 05 j 22:38	0°♉	
retrograde	-8243 Oct 11 j 13:58	3°♉30'34	
opposition	-8243 Dec 19 j 04:06	0°♉13'47	0°20'54
min. Earth dist.	-8243 Dec 19 j 05:18	0°♉13'33	9.03086 AU
	-8243 Dec 22 j 05:22	30°℞♈	
direct	-8242 Feb 28 j 15:00	26°♈50'45	
	-8242 May 05 j 00:57	0°♉	
evening set	-8242 Jun 12 j 22:51	4°♉01'43	
conjunction	-8242 Jun 30 j 02:12	6°♉00'37	0°31'47
minimum elong	-8242 Jun 30 j 02:11	6°♉00'36	0°32'03
max. Earth dist.	-8242 Jun 29 j 21:50	5°♉59'21	11.08462 AU
morning rise	-8242 Jul 17 j 00:21	7°♉58'05	
retrograde	-8242 Oct 22 j 23:16	14°♉44'46	
opposition	-8242 Dec 30 j 22:24	11°♉28'55	0°55'21
min. Earth dist.	-8242 Dec 31 j 03:20	11°♉28'00	9.13143 AU
direct	-8241 Mar 12 j 17:25	8°♉07'00	
	-8241 Jun 22 j 19:34	15°♉	
evening set	-8241 Jun 24 j 12:19	15°♉11'30	
conjunction	-8241 Jul 11 j 11:17	17°♉08'17	0°59'02
minimum elong	-8241 Jul 11 j 11:15	17°♉08'17	0°59'23
max. Earth dist.	-8241 Jul 11 j 02:55	17°♉05'52	11.17211 AU
morning rise	-8241 Jul 28 j 05:23	19°♉03'46	
retrograde	-8241 Nov 03 j 03:23	25°♉46'45	
opposition	-8240 Jan 11 j 13:45	22°♉31'30	1°27'05
min. Earth dist.	-8240 Jan 11 j 22:58	22°♉29'48	9.20618 AU
direct	-8240 Mar 23 j 13:00	19°♉10'32	
evening set	-8240 Jul 04 j 19:25	26°♉10'04	
conjunction	-8240 Jul 21 j 14:04	28°♉05'08	1°23'43
minimum elong	-8240 Jul 21 j 14:01	28°♉05'07	1°24'09
max. Earth dist.	-8240 Jul 21 j 00:59	28°♉01'22	11.23244 AU
morning rise	-8240 Aug 07 j 04:40	29°♉59'07	
	-8240 Aug 07 j 07:49	0°♊	
retrograde	-8240 Nov 13 j 07:04	6°♊40'30	
opposition	-8239 Jan 22 j 03:15	3°♊25'29	1°55'15
min. Earth dist.	-8239 Jan 22 j 15:54	3°♊23'10	9.25284 AU
direct	-8239 Apr 04 j 05:46	0°♊05'18	
evening set	-8239 Jul 15 j 22:02	7°♊01'27	
conjunction	-8239 Aug 01 j 12:52	8°♊55'17	1°45'11
minimum elong	-8239 Aug 01 j 12:49	8°♊55'16	1°45'40
max. Earth dist.	-8239 Jul 31 j 20:26	8°♊50'33	11.26388 AU
morning rise	-8239 Aug 18 j 00:25	10°♊48'14	
retrograde	-8239 Nov 24 j 11:03	17°♊30'02	
opposition	-8238 Feb 02 j 16:04	14°♊14'55	2°19'09
min. Earth dist.	-8238 Feb 03 j 06:58	14°♊12'12	9.26993 AU
direct	-8238 Apr 15 j 18:08	10°♊55'22	
evening set	-8238 Jul 26 j 21:44	17°♊49'42	
conjunction	-8238 Aug 12 j 09:29	19°♊42'48	2°02'48
minimum elong	-8238 Aug 12 j 09:26	19°♊42'47	2°03'20
max. Earth dist.	-8238 Aug 11 j 15:09	19°♊37'31	11.26548 AU
morning rise	-8238 Aug 28 j 18:28	21°♊35'14	
retrograde	-8238 Dec 05 j 19:12	28°♊19'28	
opposition	-8237 Feb 14 j 06:12	25°♊03'57	2°38'08
min. Earth dist.	-8237 Feb 14 j 22:58	25°♊00'54	9.25695 AU
direct	-8237 Apr 27 j 05:08	21°♊44'52	
evening set	-8237 Aug 06 j 20:18	28°♊38'53	
	-8237 Aug 18 j 15:35	0°♋	
max. Earth dist.	-8237 Aug 22 j 08:59	0°♋25'51	11.23727 AU
conjunction	-8237 Aug 23 j 05:33	0°♋31'48	2°16'05
minimum elong	-8237 Aug 23 j 05:31	0°♋31'47	2°16'38
morning rise	-8237 Sep 08 j 12:57	2°♋24'18	
retrograde	-8237 Dec 17 j 05:51	9°♋12'51	
opposition	-8236 Feb 25 j 22:53	5°♋56'40	2°51'37
min. Earth dist.	-8236 Feb 26 j 17:55	5°♋53'12	9.21438 AU
direct	-8236 May 07 j 13:51	2°♋37'51	
evening set	-8236 Aug 16 j 19:35	9°♋33'07	
max. Earth dist.	-8236 Sep 01 j 04:27	11°♋19'46	11.18023 AU
conjunction	-8236 Sep 02 j 03:13	11°♋26'24	2°24'33
minimum elong	-8236 Sep 02 j 03:12	11°♋26'24	2°25'05
morning rise	-8236 Sep 18 j 10:10	13°♋19'34	
retrograde	-8236 Dec 27 j 21:42	20°♋14'17	
opposition	-8235 Mar 08 j 19:07	16°♋57'08	2°59'03
min. Earth dist.	-8235 Mar 09 j 15:30	16°♋53'24	9.14348 AU
direct	-8235 May 19 j 01:41	13°♋38'22	
evening set	-8235 Aug 27 j 21:08	20°♋36'25	
max. Earth dist.	-8235 Sep 12 j 05:19	22°♋23'54	11.09597 AU
conjunction	-8235 Sep 13 j 04:22	22°♋30'41	2°27'45
minimum elong	-8235 Sep 13 j 04:23	22°♋30'41	2°28'16
morning rise	-8235 Sep 29 j 11:50	24°♋25'07	
	-8235 Nov 26 j 22:04	0°♌	
retrograde	-8234 Jan 08 j 21:47	1°♌27'44	
	-8234 Feb 22 j 05:20	30°℞♋	
opposition	-8234 Mar 20 j 20:28	28°♋09'21	2°59'54
min. Earth dist.	-8234 Mar 21 j 16:32	28°♋05'39	9.04624 AU
direct	-8234 May 30 j 16:01	24°♋50'30	
	-8234 Aug 22 j 11:19	0°♌	
evening set	-8234 Sep 08 j 02:47	1°♌52'42	
conjunction	-8234 Sep 24 j 10:48	3°♌48'34	2°25'18
minimum elong	-8234 Sep 24 j 10:49	3°♌48'35	2°25'48
max. Earth dist.	-8234 Sep 23 j 12:42	3°♌41'59	10.98697 AU
morning rise	-8234 Oct 10 j 19:49	5°♌44'53	
retrograde	-8233 Jan 21 j 06:08	12°♌57'03	
opposition	-8233 Apr 02 j 04:13	9°♌37'11	2°53'43
min. Earth dist.	-8233 Apr 02 j 23:07	9°♌33'41	8.92581 AU
direct	-8233 Jun 11 j 09:27	6°♌18'04	
evening set	-8233 Sep 19 j 14:39	13°♌25'49	
	-8233 Oct 02 j 17:22	15°♌	
max. Earth dist.	-8233 Oct 05 j 02:58	15°♌17'24	10.85706 AU
conjunction	-8233 Oct 06 j 00:29	15°♌23'53	2°16'56
minimum elong	-8233 Oct 06 j 00:32	15°♌23'54	2°17'23
morning rise	-8233 Oct 22 j 12:25	17°♌22'42	
retrograde	-8232 Feb 03 j 01:05	24°♌45'49	
opposition	-8232 Apr 13 j 19:19	21°♌24'19	2°40'09
min. Earth dist.	-8232 Apr 14 j 13:05	21°♌20'59	8.78659 AU
direct	-8232 Jun 22 j 08:51	18°♌04'41	
evening set	-8232 Sep 30 j 10:26	25°♌19'18	
conjunction	-8232 Oct 16 j 23:13	27°♌20'09	2°02'31
minimum elong	-8232 Oct 16 j 23:16	27°♌20'10	2°02'52
max. Earth dist.	-8232 Oct 16 j 03:00	27°♌13'57	10.71106 AU
morning rise	-8232 Nov 02 j 15:19	29°♌22'04	
	-8232 Nov 07 j 22:34	0°♍	
retrograde	-8231 Feb 15 j 04:45	6°♍57'15	
opposition	-8231 Apr 26 j 18:37	3°♍33'59	2°19'03
min. Earth dist.	-8231 Apr 27 j 10:39	3°♍30'56	8.63399 AU
direct	-8231 Jul 04 j 15:04	0°♍13'39	
evening set	-8231 Oct 12 j 15:55	7°♍36'22	
conjunction	-8231 Oct 29 j 08:48	9°♍40'28	1°42'05
minimum elong	-8231 Oct 29 j 08:52	9°♍40'29	1°42'20
max. Earth dist.	-8231 Oct 28 j 15:52	9°♍35'11	10.55478 AU
morning rise	-8231 Nov 15 j 05:51	11°♍45'56	
retrograde	-8230 Feb 28 j 19:18	19°♍34'02	
opposition	-8230 May 10 j 02:36	16°♍08'53	1°50'36

Attention, astronomical year style is used: The year -8230 in astronomical counting style is the year 8231 BCE in historical counting style.

min. Earth dist.	-8230 May 10 j 15:30	16°♍06'24	8.47453 AU
direct	-8230 Jul 17 j 07:07	12°♍47'42	
evening set	-8230 Oct 25 j 08:55	20°♍19'32	
conjunction	-8230 Nov 11 j 06:49	22°♍27'17	1°16'03
minimum elong	-8230 Nov 11 j 06:53	22°♍27'18	1°16'11
max. Earth dist.	-8230 Nov 10 j 18:27	22°♍23'22	10.39517 AU
morning rise	-8230 Nov 28 j 09:28	24°♍36'37	
	-8229 Jan 16 j 20:17	0°♎	
retrograde	-8229 Mar 14 j 22:19	2°♎37'56	
	-8229 May 13 j 06:43	30°℞♍	
opposition	-8229 May 23 j 19:35	29°♍10'55	1°15'27
min. Earth dist.	-8229 May 24 j 04:05	29°♍09'15	8.31575 AU
direct	-8229 Jul 30 j 07:50	25°♍48'42	
	-8229 Oct 08 j 22:13	0°♎	
evening set	-8229 Nov 07 j 14:55	3°♎30'25	
conjunction	-8229 Nov 24 j 18:18	5°♎41'59	0°45'15
minimum elong	-8229 Nov 24 j 18:20	5°♎42'00	0°45'14
max. Earth dist.	-8229 Nov 24 j 10:46	5°♎39'34	10.23993 AU
morning rise	-8229 Dec 12 j 02:55	7°♎55'20	
retrograde	-8228 Mar 28 j 12:55	16°♎09'25	
opposition	-8228 Jun 05 j 21:13	12°♎40'38	0°34'50
min. Earth dist.	-8228 Jun 06 j 01:06	12°♎39'52	8.16550 AU
direct	-8228 Aug 11 j 16:43	9°♎17'14	
evening set	-8228 Nov 20 j 10:59	17°♎09'21	
conjunction	-8228 Dec 07 j 19:52	19°♎24'39	0°10'59
minimum elong	-8228 Dec 07 j 19:53	19°♎24'39	0°10'52
behind sun begin	-8228 Dec 07 j 14:24	19°♎22'53	
behind sun end	-8228 Dec 08 j 01:22	19°♎26'26	
max. Earth dist.	-8228 Dec 07 j 17:02	19°♎23'44	10.09687 AU
morning rise	-8228 Dec 25 j 10:21	21°♎41'50	
	-8227 Mar 31 j 13:50	0°♏	
desc. node	-8227 Apr 03 j 16:34	0°♏03'25	
retrograde	-8227 Apr 12 j 11:34	0°♏07'31	
	-8227 Apr 24 j 08:10	30°℞♎	
opposition	-8227 Jun 20 j 06:41	26°♎37'14	-0°09'15
min. Earth dist.	-8227 Jun 20 j 06:13	26°♎37'19	8.03161 AU
direct	-8227 Aug 25 j 12:44	23°♎12'33	
	-8227 Nov 25 j 01:41	0°♏	
evening set	-8227 Dec 04 j 21:12	1°♏15'07	
conjunction	-8227 Dec 22 j 11:17	3°♏33'51	-0°24'57
minimum elong	-8227 Dec 22 j 11:16	3°♏33'50	0°25'12
max. Earth dist.	-8227 Dec 22 j 13:17	3°♏34'30	9.97379 AU
morning rise	-8226 Jan 09 j 07:03	5°♏54'27	
retrograde	-8226 Apr 27 j 17:25	14°♏29'48	
opposition	-8226 Jul 04 j 22:58	10°♏58'20	-0°54'09
min. Earth dist.	-8226 Jul 04 j 18:27	10°♏59'16	7.92207 AU
direct	-8226 Sep 08 j 18:54	7°♏32'23	
	-8226 Dec 14 j 02:42	15°♏	
evening set	-8226 Dec 19 j 20:49	15°♏44'47	
conjunction	-8225 Jan 06 j 15:32	18°♏06'21	-1°00'05
minimum elong	-8225 Jan 06 j 15:29	18°♏06'20	1°00'27
max. Earth dist.	-8225 Jan 06 j 23:10	18°♏08'54	9.87897 AU
morning rise	-8225 Jan 24 j 15:33	20°♏29'38	
retrograde	-8225 May 13 j 03:31	29°♏11'39	
opposition	-8225 Jul 19 j 20:04	25°♏39'27	-1°36'36
min. Earth dist.	-8225 Jul 19 j 11:30	25°♏41'14	7.84521 AU
direct	-8225 Sep 23 j 10:11	22°♏12'15	
	-8225 Dec 31 j 03:26	0°♐	
evening set	-8224 Jan 04 j 08:06	0°♐32'53	
conjunction	-8224 Jan 22 j 06:29	2°♐56'24	-1°31'54
minimum elong	-8224 Jan 22 j 06:25	2°♐56'23	1°32'21
max. Earth dist.	-8224 Jan 22 j 19:54	3°♐00'55	9.82035 AU
morning rise	-8224 Feb 09 j 09:17	5°♐21'19	
retrograde	-8224 May 27 j 14:02	14°♐05'56	
opposition	-8224 Aug 02 j 19:15	10°♐33'29	-2°13'12
min. Earth dist.	-8224 Aug 02 j 06:47	10°♐36'06	7.80769 AU
direct	-8224 Oct 07 j 08:04	7°♐05'08	
evening set	-8223 Jan 19 j 03:13	15°♐31'27	
conjunction	-8223 Feb 06 j 04:06	17°♐55'50	-1°57'49
minimum elong	-8223 Feb 06 j 04:02	17°♐55'48	1°58'20
max. Earth dist.	-8223 Feb 06 j 22:51	18°♐02'08	9.80327 AU
morning rise	-8223 Feb 24 j 08:11	20°♐21'10	
retrograde	-8223 Jun 11 j 22:00	29°♐03'51	
opposition	-8223 Aug 17 j 17:53	25°♐31'39	-2°40'52
min. Earth dist.	-8223 Aug 17 j 01:58	25°♐35'00	7.81288 AU
direct	-8223 Oct 22 j 10:35	22°♐02'22	
	-8222 Jan 31 j 02:09	0°♑	
evening set	-8222 Feb 04 j 01:23	0°♑31'00	
conjunction	-8222 Feb 22 j 03:41	2°♑55'08	-2°15'47
minimum elong	-8222 Feb 22 j 03:38	2°♑55'07	2°16'20
max. Earth dist.	-8222 Feb 23 j 02:44	3°♑02'50	9.82947 AU
morning rise	-8222 Mar 12 j 07:44	5°♑19'45	
retrograde	-8222 Jun 26 j 23:31	13°♑56'00	
opposition	-8222 Sep 01 j 12:54	10°♑24'32	-2°57'29
min. Earth dist.	-8222 Aug 31 j 18:24	10°♑28'25	7.86039 AU
direct	-8222 Nov 06 j 14:14	6°♑54'36	
evening set	-8221 Feb 19 j 21:56	15°♑21'56	
conjunction	-8221 Mar 10 j 00:40	17°♑44'49	-2°24'35
minimum elong	-8221 Mar 10 j 00:39	17°♑44'49	2°25'08
max. Earth dist.	-8221 Mar 11 j 02:19	17°♑53'19	9.89689 AU
morning rise	-8221 Mar 28 j 03:35	20°♑07'42	
retrograde	-8221 Jul 11 j 15:36	28°♑33'35	
min. Earth dist.	-8221 Sep 15 j 06:03	25°♑07'26	7.94643 AU
opposition	-8221 Sep 16 j 01:39	25°♑03'19	-3°02'10
direct	-8221 Nov 21 j 15:40	21°♑33'06	
evening set	-8220 Mar 06 j 12:02	29°♑55'38	
	-8220 Mar 07 j 01:40	0°♒	
conjunction	-8220 Mar 24 j 14:18	2°♒16'29	-2°24'00
minimum elong	-8220 Mar 24 j 14:19	2°♒16'29	2°24'29
max. Earth dist.	-8220 Mar 25 j 16:34	2°♒25'03	10.00028 AU
morning rise	-8220 Apr 11 j 15:17	4°♒36'50	
retrograde	-8220 Jul 24 j 20:20	12°♒49'33	
min. Earth dist.	-8220 Sep 28 j 11:23	9°♒24'51	8.06458 AU
opposition	-8220 Sep 29 j 06:30	9°♒20'53	-2°55'18
direct	-8220 Dec 05 j 11:53	5°♒50'44	
evening set	-8219 Mar 21 j 15:43	14°♒05'32	
	-8219 Mar 28 j 19:30	15°♒	
conjunction	-8219 Apr 08 j 16:43	16°♒23'44	-2°14'40
minimum elong	-8219 Apr 08 j 16:46	16°♒23'45	2°15'05
max. Earth dist.	-8219 Apr 09 j 17:39	16°♒31'44	10.13210 AU
morning rise	-8219 Apr 26 j 15:12	18°♒41'02	
retrograde	-8219 Aug 07 j 12:53	26°♒39'04	
min. Earth dist.	-8219 Oct 12 j 08:42	23°♒15'48	8.20669 AU
opposition	-8219 Oct 13 j 02:03	23°♒12'15	-2°38'18
direct	-8219 Dec 20 j 00:25	19°♒42'33	
evening set	-8218 Apr 05 j 06:57	27°♒47'35	
	-8218 Apr 22 j 21:17	0°♓	
conjunction	-8218 Apr 23 j 06:01	0°♓02'45	-1°57'54
minimum elong	-8218 Apr 23 j 06:05	0°♓02'47	1°58'14
max. Earth dist.	-8218 Apr 24 j 03:45	0°♓09'37	10.28355 AU
morning rise	-8218 May 11 j 01:35	2°♓16'44	
retrograde	-8218 Aug 20 j 16:45	9°♓59'42	

Attention, astronomical year style is used: The year -8218 in astronomical counting style is the year 8219 BCE in historical counting style.

opposition	-8218 Oct 26 j 11:42	6°♓34'52	-2°13'12
min. Earth dist.	-8218 Oct 25 j 21:02	6°♓37'50	8.36384 AU
direct	-8217 Jan 03 j 04:42	3°♓05'57	
evening set	-8217 Apr 19 j 08:34	11°♓00'09	
conjunction	-8217 May 07 j 05:03	13°♓12'06	-1°35'23
minimum elong	-8217 May 07 j 05:07	13°♓12'07	1°35'36
max. Earth dist.	-8217 May 07 j 22:15	13°♓17'26	10.44548 AU
morning rise	-8217 May 24 j 21:17	15°♓22'39	
retrograde	-8217 Sep 02 j 08:02	22°♓51'16	
opposition	-8217 Nov 08 j 11:55	19°♓28'25	-1°42'14
min. Earth dist.	-8217 Nov 07 j 23:50	19°♓30'49	8.52712 AU
direct	-8216 Jan 16 j 23:40	16°♓00'35	
evening set	-8216 May 01 j 20:18	23°♓43'39	
conjunction	-8216 May 19 j 13:38	25°♓52'20	-1°08'51
minimum elong	-8216 May 19 j 13:41	25°♓52'21	1°08'57
max. Earth dist.	-8216 May 20 j 02:25	25°♓56'14	10.60917 AU
morning rise	-8216 Jun 06 j 02:07	27°♓59'30	
	-8216 Jun 23 j 11:27	0°♈	
retrograde	-8216 Sep 13 j 13:57	5°♈15'12	
opposition	-8216 Nov 20 j 03:14	1°♈54'16	-1°07'34
min. Earth dist.	-8216 Nov 19 j 17:59	1°♈56'04	8.68833 AU
	-8216 Dec 16 j 00:28	30°℞♓	
direct	-8215 Jan 29 j 07:57	28°♓27'42	
	-8215 Mar 14 j 03:54	0°♈	
evening set	-8215 May 14 j 19:05	6°♈00'02	
conjunction	-8215 Jun 01 j 08:51	8°♈05'35	-0°39'56
minimum elong	-8215 Jun 01 j 08:53	8°♈05'36	0°39'56
max. Earth dist.	-8215 Jun 01 j 17:32	8°♈08'11	10.76686 AU
morning rise	-8215 Jun 18 j 17:13	10°♈09'32	
retrograde	-8215 Sep 25 j 12:29	17°♈14'07	
opposition	-8215 Dec 02 j 10:37	13°♈54'57	-0°31'09
min. Earth dist.	-8215 Dec 02 j 05:03	13°♈56'01	8.84030 AU
direct	-8214 Feb 11 j 04:21	10°♈29'46	
evening set	-8214 May 27 j 06:13	17°♈52'18	
conjunction	-8214 Jun 13 j 15:56	19°♈54'55	-0°10'09
minimum elong	-8214 Jun 13 j 15:56	19°♈54'55	0°10'01
behind sun begin	-8214 Jun 13 j 10:13	19°♈53'15	
behind sun end	-8214 Jun 13 j 21:40	19°♈56'36	
max. Earth dist.	-8214 Jun 13 j 20:05	19°♈56'08	10.91178 AU
morning rise	-8214 Jun 30 j 20:04	21°♈55'57	
retrograde	-8214 Oct 07 j 02:19	28°♈51'29	
asc. node	-8214 Oct 19 j 21:30	28°♈43'02	
opposition	-8214 Dec 14 j 11:38	25°♈33'53	0°05'24
min. Earth dist.	-8214 Dec 14 j 10:40	25°♈34'04	8.97684 AU
direct	-8213 Feb 23 j 17:25	22°♈10'05	
evening set	-8213 Jun 08 j 07:11	29°♈24'06	
	-8213 Jun 13 j 12:04	0°♉	
conjunction	-8213 Jun 25 j 12:24	1°♉24'00	0°19'24
minimum elong	-8213 Jun 25 j 12:23	1°♉24'00	0°19'38
max. Earth dist.	-8213 Jun 25 j 10:59	1°♉23'36	11.03833 AU
morning rise	-8213 Jul 12 j 12:23	3°♉22'27	
retrograde	-8213 Oct 18 j 11:46	10°♉11'08	
opposition	-8213 Dec 26 j 07:30	6°♉54'49	0°40'43
min. Earth dist.	-8213 Dec 26 j 10:32	6°♉54'15	9.09290 AU
direct	-8212 Mar 06 j 22:58	3°♉32'22	
evening set	-8212 Jun 18 j 23:34	10°♉39'14	
conjunction	-8212 Jul 06 j 00:17	12°♉36'49	0°47'30
minimum elong	-8212 Jul 06 j 00:15	12°♉36'48	0°47'49
max. Earth dist.	-8212 Jul 05 j 17:59	12°♉34'59	11.14213 AU
morning rise	-8212 Jul 22 j 20:16	14°♉33'04	
	-8212 Jul 26 j 19:52	15°♉	

retrograde	-8212 Oct 28 j 16:31	21°♉17'04	
opposition	-8211 Jan 05 j 23:29	18°♉01'41	1°13'43
min. Earth dist.	-8211 Jan 06 j 05:41	18°♉00'32	9.18447 AU
	-8211 Feb 26 j 09:25	15°℞♉	
direct	-8211 Mar 18 j 21:32	14°♉40'29	
	-8211 Apr 08 j 06:30	15°♉	
evening set	-8211 Jun 30 j 08:52	21°♉41'41	
conjunction	-8211 Jul 17 j 05:25	23°♉37'21	1°13'23
minimum elong	-8211 Jul 17 j 05:22	23°♉37'20	1°13'47
max. Earth dist.	-8211 Jul 16 j 19:41	23°♉34'33	11.21966 AU
morning rise	-8211 Aug 02 j 21:30	25°♉31'50	
	-8211 Sep 16 j 22:38	0°♊	
retrograde	-8211 Nov 08 j 22:03	2°♊13'17	
	-8210 Jan 03 j 07:45	30°℞♉	
opposition	-8210 Jan 17 j 13:10	28°♉58'30	1°43'30
min. Earth dist.	-8210 Jan 17 j 22:34	28°♉56'46	9.24837 AU
direct	-8210 Mar 30 j 15:25	25°♉38'22	
	-8210 Jun 17 j 06:29	0°♊	
evening set	-8210 Jul 11 j 13:08	2°♊35'26	
conjunction	-8210 Jul 28 j 05:40	4°♊29'38	1°36'18
minimum elong	-8210 Jul 28 j 05:38	4°♊29'37	1°36'47
max. Earth dist.	-8210 Jul 27 j 16:29	4°♊25'50	11.26830 AU
morning rise	-8210 Aug 13 j 18:17	6°♊22'49	
retrograde	-8210 Nov 20 j 01:43	13°♊03'45	
opposition	-8209 Jan 29 j 02:01	9°♊49'12	2°09'18
min. Earth dist.	-8209 Jan 29 j 15:17	9°♊46'47	9.28258 AU
direct	-8209 Apr 11 j 03:01	6°♊29'55	
evening set	-8209 Jul 22 j 13:56	13°♊24'25	
max. Earth dist.	-8209 Aug 07 j 09:29	15°♊12'38	11.28663 AU
conjunction	-8209 Aug 08 j 02:48	15°♊17'37	1°55'39
minimum elong	-8209 Aug 08 j 02:45	15°♊17'36	1°56'10
morning rise	-8209 Aug 24 j 12:46	17°♊10'03	
retrograde	-8209 Dec 01 j 06:48	23°♊52'27	
opposition	-8208 Feb 09 j 15:23	20°♊37'45	2°30'27
min. Earth dist.	-8208 Feb 10 j 07:49	20°♊34'46	9.28590 AU
direct	-8208 Apr 21 j 15:10	17°♊19'03	
evening set	-8208 Aug 01 j 12:37	24°♊12'31	
conjunction	-8208 Aug 17 j 22:42	26°♊05'15	2°10'51
minimum elong	-8208 Aug 17 j 22:39	26°♊05'14	2°11'24
max. Earth dist.	-8208 Aug 17 j 02:32	25°♊59'26	11.27379 AU
morning rise	-8208 Sep 03 j 06:45	27°♊57'28	
	-8208 Sep 22 j 01:12	0°♋	
retrograde	-8208 Dec 11 j 15:39	4°♋43'19	
opposition	-8207 Feb 20 j 06:24	1°♋28'03	2°46'21
min. Earth dist.	-8207 Feb 21 j 00:36	1°♋24'45	9.25758 AU
	-8207 Mar 13 j 05:09	30°℞♊	
direct	-8207 May 03 j 01:31	28°♊09'44	
	-8207 Jun 21 j 01:19	0°♋	
evening set	-8207 Aug 12 j 11:13	5°♋03'42	
conjunction	-8207 Aug 28 j 19:27	6°♋56'34	2°21'27
minimum elong	-8207 Aug 28 j 19:26	6°♋56'33	2°21'59
max. Earth dist.	-8207 Aug 27 j 21:53	6°♋50'18	11.22939 AU
morning rise	-8207 Sep 14 j 02:19	8°♋49'09	
retrograde	-8207 Dec 23 j 05:55	15°♋40'20	
opposition	-8206 Mar 04 j 00:29	12°♋24'12	2°56'28
min. Earth dist.	-8206 Mar 04 j 20:08	12°♋20'38	9.19775 AU
direct	-8206 May 14 j 11:36	9°♋06'00	
evening set	-8206 Aug 23 j 11:28	16°♋02'07	
conjunction	-8206 Sep 08 j 18:43	17°♋55'42	2°26'59
minimum elong	-8206 Sep 08 j 18:43	17°♋55'42	2°27'30
max. Earth dist.	-8206 Sep 07 j 19:20	17°♋48'52	11.15449 AU

Attention, astronomical year style is used: The year -8206 in astronomical counting style is the year 8207 BCE in historical counting style.

morning rise	-8206 Sep 25 j 01:35	19°♋49'18	
retrograde	-8205 Jan 04 j 02:26	26°♋47'41	
opposition	-8205 Mar 15 j 23:27	23°♋30'24	3°00'15
min. Earth dist.	-8205 Mar 16 j 20:28	23°♋26'33	9.10843 AU
direct	-8205 May 25 j 23:16	20°♋12'04	
evening set	-8205 Sep 03 j 15:02	27°♋11'48	
conjunction	-8205 Sep 19 j 22:22	29°♋06'44	2°27'03
minimum elong	-8205 Sep 19 j 22:23	29°♋06'44	2°27'33
max. Earth dist.	-8205 Sep 18 j 21:38	28°♋59'25	11.05195 AU
	-8205 Sep 27 j 10:36	0°♌	
morning rise	-8205 Oct 06 j 06:33	1°♌02'00	
retrograde	-8204 Jan 16 j 05:15	8°♌09'19	
opposition	-8204 Mar 27 j 04:14	4°♌50'31	2°57'13
min. Earth dist.	-8204 Mar 28 j 01:49	4°♌46'32	8.99309 AU
direct	-8204 Jun 05 j 15:27	1°♌31'48	
evening set	-8204 Sep 13 j 23:51	8°♌36'36	
max. Earth dist.	-8204 Sep 29 j 08:48	10°♌26'23	10.92565 AU
conjunction	-8204 Sep 30 j 08:38	10°♌33'32	2°21'19
minimum elong	-8204 Sep 30 j 08:40	10°♌33'32	2°21'47
morning rise	-8204 Oct 16 j 19:12	12°♌31'04	
	-8204 Nov 07 j 20:44	15°♌	
retrograde	-8203 Jan 27 j 18:49	19°♌48'50	
opposition	-8203 Apr 08 j 15:38	16°♌28'15	2°46'58
min. Earth dist.	-8203 Apr 09 j 11:55	16°♌24'28	8.85609 AU
	-8203 Apr 29 j 01:16	15℞♌	
direct	-8203 Jun 17 j 13:43	13°♌08'55	
	-8203 Aug 03 j 23:51	15°♌	
evening set	-8203 Sep 25 j 15:41	20°♌20'08	
max. Earth dist.	-8203 Oct 11 j 05:24	22°♌13'02	10.78030 AU
conjunction	-8203 Oct 12 j 03:07	22°♌19'39	2°09'35
minimum elong	-8203 Oct 12 j 03:10	22°♌19'40	2°09'59
morning rise	-8203 Oct 28 j 17:07	24°♌20'04	
	-8203 Dec 23 j 21:51	0°♍	
retrograde	-8202 Feb 09 j 18:43	1°♍49'35	
	-8202 Mar 31 j 03:29	30℞♌	
opposition	-8202 Apr 21 j 11:02	28°♌27'03	2°29'15
min. Earth dist.	-8202 Apr 22 j 04:48	28°♌23'41	8.70272 AU
direct	-8202 Jun 29 j 16:23	25°♌06'55	
	-8202 Sep 16 j 18:06	0°♍	
evening set	-8202 Oct 07 j 16:23	2°♍25'48	
conjunction	-8202 Oct 24 j 07:26	4°♍28'25	1°51'48
minimum elong	-8202 Oct 24 j 07:30	4°♍28'26	1°52'06
max. Earth dist.	-8202 Oct 23 j 12:06	4°♍22'26	10.62174 AU
morning rise	-8202 Nov 10 j 02:02	6°♍32'15	
retrograde	-8201 Feb 23 j 05:08	14°♍14'33	
opposition	-8201 May 04 j 15:07	10°♍49'57	2°04'04
min. Earth dist.	-8201 May 05 j 05:53	10°♍47'06	8.53942 AU
direct	-8201 Jul 12 j 03:26	7°♍28'49	
evening set	-8201 Oct 20 j 04:02	14°♍56'35	
conjunction	-8201 Nov 05 j 23:35	17°♍02'45	1°28'13
minimum elong	-8201 Nov 05 j 23:38	17°♍02'46	1°28'23
max. Earth dist.	-8201 Nov 05 j 07:00	16°♍57'31	10.45684 AU
morning rise	-8201 Nov 22 j 23:44	19°♍10'25	
retrograde	-8200 Mar 08 j 03:04	27°♍06'02	
opposition	-8200 May 17 j 04:03	23°♍39'24	1°31'47
min. Earth dist.	-8200 May 17 j 15:46	23°♍37'06	8.37367 AU
direct	-8200 Jul 23 j 23:09	20°♍17'07	
evening set	-8200 Nov 01 j 04:05	27°♍54'45	
	-8200 Nov 17 j 14:06	0°♎	
conjunction	-8200 Nov 18 j 04:54	0°♎04'44	0°59'24
minimum elong	-8200 Nov 18 j 04:57	0°♎04'45	0°59'27

max. Earth dist.	-8200 Nov 17 j 16:44	0°♎00'50	10.29331 AU
morning rise	-8200 Dec 05 j 11:04	2°♎16'29	
retrograde	-8199 Mar 22 j 11:51	10°♎25'26	
opposition	-8199 May 31 j 02:04	6°♎56'51	0°53'23
min. Earth dist.	-8199 May 31 j 09:46	6°♎55'20	8.21368 AU
direct	-8199 Aug 06 j 04:39	3°♎33'21	
evening set	-8199 Nov 14 j 17:43	11°♎21'29	
conjunction	-8199 Dec 02 j 00:11	13°♎35'22	0°26'26
minimum elong	-8199 Dec 02 j 00:13	13°♎35'23	0°26'22
max. Earth dist.	-8199 Dec 01 j 17:52	13°♎33'19	10.13959 AU
morning rise	-8199 Dec 19 j 12:18	15°♎51'07	
retrograde	-8198 Apr 06 j 05:53	24°♎12'40	
opposition	-8198 Jun 14 j 08:38	20°♎42'22	0°10'29
min. Earth dist.	-8198 Jun 14 j 11:20	20°♎41'50	8.06829 AU
direct	-8198 Aug 19 j 21:47	17°♎17'36	
desc. node	-8198 Sep 11 j 02:33	17°♎45'43	
evening set	-8198 Nov 28 j 21:53	25°♎16'26	
conjunction	-8198 Dec 16 j 09:56	27°♎34'00	-0°09'06
minimum elong	-8198 Dec 16 j 09:55	27°♎34'00	0°09'18
behind sun begin	-8198 Dec 16 j 03:51	27°♎32'01	
behind sun end	-8198 Dec 16 j 16:00	27°♎35'59	
max. Earth dist.	-8198 Dec 16 j 10:15	27°♎34'06	10.00461 AU
morning rise	-8197 Jan 03 j 03:33	29°♎53'26	
	-8197 Jan 03 j 23:55	0°♏	
retrograde	-8197 Apr 21 j 09:01	8°♏25'49	
opposition	-8197 Jun 28 j 22:31	4°♏54'08	-0°34'31
min. Earth dist.	-8197 Jun 28 j 19:44	4°♏54'43	7.94643 AU
direct	-8197 Sep 02 j 23:56	1°♏28'06	
evening set	-8197 Dec 13 j 16:12	9°♏37'09	
conjunction	-8197 Dec 31 j 09:16	11°♏57'53	-0°44'54
minimum elong	-8197 Dec 31 j 09:13	11°♏57'52	0°45'13
max. Earth dist.	-8197 Dec 31 j 16:08	12°♏00'10	9.89704 AU
morning rise	-8196 Jan 18 j 07:33	14°♏20'21	
	-8196 Jan 23 j 09:57	15°♏	
retrograde	-8196 May 05 j 18:25	23°♏00'47	
opposition	-8196 Jul 12 j 18:08	19°♏28'10	-1°18'32
min. Earth dist.	-8196 Jul 12 j 10:02	19°♏29'51	7.85617 AU
direct	-8196 Sep 16 j 10:42	16°♏00'56	
evening set	-8196 Dec 27 j 23:03	24°♏18'55	
conjunction	-8195 Jan 14 j 20:06	26°♏41'57	-1°18'32
minimum elong	-8195 Jan 14 j 20:02	26°♏41'56	1°18'58
max. Earth dist.	-8195 Jan 15 j 09:07	26°♏46'19	9.82439 AU
morning rise	-8195 Feb 01 j 21:45	29°♏06'30	
	-8195 Feb 08 j 18:15	0°♐	
retrograde	-8195 May 21 j 06:30	7°♐51'17	
opposition	-8195 Jul 27 j 17:04	4°♐18'16	-1°58'09
min. Earth dist.	-8195 Jul 27 j 04:32	4°♐20'54	7.80407 AU
direct	-8195 Oct 01 j 04:51	0°♐49'56	
evening set	-8194 Jan 12 j 15:24	9°♐14'41	
conjunction	-8194 Jan 30 j 15:22	11°♐38'59	-1°47'20
minimum elong	-8194 Jan 30 j 15:17	11°♐38'58	1°47'51
max. Earth dist.	-8194 Jan 31 j 09:50	11°♐45'12	9.79239 AU
morning rise	-8194 Feb 17 j 19:00	14°♐04'28	
retrograde	-8194 Jun 05 j 17:39	22°♐49'11	
opposition	-8194 Aug 11 j 16:33	19°♐16'21	-2°30'04
min. Earth dist.	-8194 Aug 11 j 00:38	19°♐19'42	7.79429 AU
direct	-8194 Oct 16 j 05:47	15°♐47'06	
evening set	-8193 Jan 28 j 13:04	24°♐15'37	
conjunction	-8193 Feb 15 j 14:52	26°♐40'07	-2°08'59
minimum elong	-8193 Feb 15 j 14:48	26°♐40'06	2°09'33
max. Earth dist.	-8193 Feb 16 j 13:34	26°♐47'44	9.80374 AU

Attention, astronomical year style is used: The year -8193 in astronomical counting style is the year 8194 BCE in historical counting style.

morning rise	-8193 Mar 05 j 19:07	29°♐05'20	
	-8193 Mar 12 j 19:24	0°♑	
retrograde	-8193 Jun 20 j 23:09	7°♑45'23	
opposition	-8193 Aug 26 j 13:46	4°♑13'18	-2°51'41
min. Earth dist.	-8193 Aug 25 j 19:38	4°♑17'07	7.82764 AU
direct	-8193 Oct 31 j 09:58	0°♑43'27	
evening set	-8192 Feb 13 j 11:16	9°♑12'11	
conjunction	-8192 Mar 02 j 13:47	11°♑35'48	-2°21'52
minimum elong	-8192 Mar 02 j 13:45	11°♑35'47	2°22'26
max. Earth dist.	-8192 Mar 03 j 15:06	11°♑44'13	9.85776 AU
morning rise	-8192 Mar 20 j 17:24	13°♑59'39	
retrograde	-8192 Jul 04 j 19:20	22°♑30'49	
min. Earth dist.	-8192 Sep 08 j 10:29	19°♑04'03	7.90174 AU
opposition	-8192 Sep 09 j 05:50	18°♑59'59	-3°01'33
direct	-8192 Nov 14 j 13:25	15°♑29'54	
evening set	-8191 Feb 28 j 04:53	23°♑55'13	
conjunction	-8191 Mar 18 j 07:16	26°♑17'03	-2°25'19
minimum elong	-8191 Mar 18 j 07:17	26°♑17'03	2°25'50
max. Earth dist.	-8191 Mar 19 j 09:37	26°♑25'43	9.95061 AU
morning rise	-8191 Apr 05 j 09:21	28°♑38'40	
	-8191 Apr 16 j 02:26	0°♒	
retrograde	-8191 Jul 19 j 04:39	6°♒57'38	
opposition	-8191 Sep 23 j 14:36	3°♒28'27	-2°59'31
min. Earth dist.	-8191 Sep 22 j 18:45	3°♒32'34	8.01128 AU
	-8191 Nov 24 j 07:33	30°℞♑	
direct	-8191 Nov 29 j 12:55	29°♑58'29	
	-8191 Dec 04 j 17:36	0°♒	
evening set	-8190 Mar 15 j 13:43	8°♒17'07	
conjunction	-8190 Apr 02 j 15:18	10°♒36'31	-2°19'37
minimum elong	-8190 Apr 02 j 15:20	10°♒36'31	2°20'04
max. Earth dist.	-8190 Apr 03 j 17:15	10°♒44'55	10.07563 AU
morning rise	-8190 Apr 20 j 15:08	12°♒55'13	
	-8190 May 07 j 12:38	15°♒	
retrograde	-8190 Aug 02 j 02:16	20°♒59'53	
opposition	-8190 Oct 07 j 14:29	17°♒32'36	-2°46'37
min. Earth dist.	-8190 Oct 06 j 19:09	17°♒36'34	8.14852 AU
	-8190 Nov 11 j 09:48	15°℞♒	
direct	-8190 Dec 14 j 05:14	14°♒03'06	
	-8189 Jan 15 j 23:08	15°♒	
evening set	-8189 Mar 30 j 11:02	22°♒12'35	
conjunction	-8189 Apr 17 j 11:04	24°♒29'04	-2°05'51
minimum elong	-8189 Apr 17 j 11:08	24°♒29'05	2°06'12
max. Earth dist.	-8189 Apr 18 j 11:11	24°♒36'44	10.22408 AU
morning rise	-8189 May 05 j 08:02	26°♒44'29	
	-8189 Jun 02 j 00:34	0°♓	
retrograde	-8189 Aug 15 j 12:47	4°♓33'57	
min. Earth dist.	-8189 Oct 20 j 11:02	1°♓12'16	8.30440 AU
opposition	-8189 Oct 21 j 04:38	1°♓08'42	-2°24'42
	-8189 Nov 04 j 14:18	30°℞♒	
direct	-8189 Dec 28 j 13:08	27°♒39'59	
	-8188 Feb 19 j 16:19	0°♓	
evening set	-8188 Apr 12 j 18:57	5°♓38'46	
conjunction	-8188 Apr 30 j 16:44	7°♓52'03	-1°45'34
minimum elong	-8188 Apr 30 j 16:48	7°♓52'05	1°45'50
max. Earth dist.	-8188 May 01 j 13:42	7°♓58'36	10.38642 AU
morning rise	-8188 May 18 j 10:20	10°♓04'00	
retrograde	-8188 Aug 27 j 10:15	17°♓38'31	
opposition	-8188 Nov 02 j 09:09	14°♓15'20	-1°55'59
min. Earth dist.	-8188 Nov 01 j 18:42	14°♓18'13	8.46935 AU
direct	-8187 Jan 10 j 11:47	10°♓47'37	
evening set	-8187 Apr 26 j 12:44	18°♓35'06	

conjunction	-8187 May 14 j 07:36	20°♓45'05	-1°20'33
minimum elong	-8187 May 14 j 07:39	20°♓45'06	1°20'42
max. Earth dist.	-8187 May 14 j 23:56	20°♓50'06	10.55280 AU
morning rise	-8187 May 31 j 21:35	22°♓53'35	
	-8187 Aug 23 j 13:11	0°♈	
retrograde	-8187 Sep 08 j 20:30	0°♈14'22	
	-8187 Sep 25 j 04:54	30°℞♓	
opposition	-8187 Nov 15 j 04:17	26°♓53'09	-1°22'40
min. Earth dist.	-8187 Nov 14 j 18:11	26°♓55'08	8.63382 AU
direct	-8186 Jan 24 j 00:07	23°♓26'35	
	-8186 Apr 30 j 16:24	0°♈	
evening set	-8186 May 09 j 17:18	1°♈03'06	
conjunction	-8186 May 27 j 08:36	3°♈09'52	-0°52'29
minimum elong	-8186 May 27 j 08:38	3°♈09'52	0°52'30
max. Earth dist.	-8186 May 27 j 18:41	3°♈12'54	10.71404 AU
morning rise	-8186 Jun 13 j 18:46	5°♈15'04	
retrograde	-8186 Sep 20 j 21:20	12°♈23'53	
opposition	-8186 Nov 27 j 14:58	9°♈04'31	-0°46'48
min. Earth dist.	-8186 Nov 27 j 09:03	9°♈05'40	8.78952 AU
direct	-8185 Feb 06 j 02:06	5°♈39'13	
evening set	-8185 May 22 j 09:34	13°♈05'36	
conjunction	-8185 Jun 08 j 20:55	15°♈09'21	-0°22'54
minimum elong	-8185 Jun 08 j 20:56	15°♈09'22	0°22'49
max. Earth dist.	-8185 Jun 09 j 01:12	15°♈10'37	10.86305 AU
morning rise	-8185 Jun 26 j 03:01	17°♈11'32	
retrograde	-8185 Oct 02 j 13:45	24°♈10'31	
opposition	-8185 Dec 09 j 18:42	20°♈52'42	-0°10'09
min. Earth dist.	-8185 Dec 09 j 16:17	20°♈53'09	8.93044 AU
direct	-8184 Feb 18 j 20:23	17°♈28'41	
asc. node	-8184 Mar 23 j 08:34	18°♈22'02	
evening set	-8184 Jun 02 j 14:46	24°♈46'03	
conjunction	-8184 Jun 19 j 21:56	26°♈47'01	0°06'56
minimum elong	-8184 Jun 19 j 21:57	26°♈47'01	0°07'07
behind sun begin	-8184 Jun 19 j 15:25	26°♈45'08	
behind sun end	-8184 Jun 20 j 04:29	26°♈48'55	
max. Earth dist.	-8184 Jun 19 j 21:46	26°♈46'58	10.99459 AU
morning rise	-8184 Jul 06 j 23:47	28°♈46'29	
	-8184 Jul 17 j 20:36	0°♉	
retrograde	-8184 Oct 13 j 02:19	5°♉37'47	
opposition	-8184 Dec 20 j 16:42	2°♉21'12	0°25'50
min. Earth dist.	-8184 Dec 20 j 18:03	2°♉20'57	9.05183 AU
	-8183 Jan 24 j 11:41	30°℞♈	
direct	-8183 Mar 02 j 04:51	28°♈58'26	
	-8183 Apr 07 j 12:25	0°♉	
evening set	-8183 Jun 14 j 10:47	6°♉08'05	
conjunction	-8183 Jul 01 j 13:39	8°♉06'37	0°35'43
minimum elong	-8183 Jul 01 j 13:37	8°♉06'37	0°35'59
max. Earth dist.	-8183 Jul 01 j 09:13	8°♉05'20	11.10433 AU
morning rise	-8183 Jul 18 j 11:14	10°♉03'44	
	-8183 Sep 07 j 00:45	15°♉	
retrograde	-8183 Oct 24 j 09:01	16°♉49'26	
	-8183 Dec 12 j 09:10	15°℞♉	
opposition	-8182 Jan 01 j 10:10	13°♉33'47	0°59'57
min. Earth dist.	-8182 Jan 01 j 16:04	13°♉32'41	9.14981 AU
direct	-8182 Mar 14 j 04:48	10°♉12'05	
	-8182 Jun 05 j 02:45	15°♉	
evening set	-8182 Jun 25 j 23:14	17°♉15'31	
conjunction	-8182 Jul 12 j 21:36	19°♉11'59	1°02'38
minimum elong	-8182 Jul 12 j 21:33	19°♉11'58	1°02'59
max. Earth dist.	-8182 Jul 12 j 12:02	19°♉09'13	11.18884 AU
morning rise	-8182 Jul 29 j 15:19	21°♉07'10	
retrograde	-8182 Nov 04 j 13:03	27°♉49'26	

Attention, astronomical year style is used: The year -8181 in astronomical counting style is the year 8182 BCE in historical counting style.

opposition	-8181 Jan 13 j 00:48	24°♉34'22	1°31'12	
min. Earth dist.	-8181 Jan 13 j 10:49	24°♉32'31	9.22130 AU	
direct	-8181 Mar 26 j 01:30	21°♉13'35		
evening set	-8181 Jul 07 j 05:28	28°♉12'18		
	-8181 Jul 22 j 22:53	0°♊		
conjunction	-8181 Jul 23 j 23:35	0°♊07'06	1°26'54	
minimum elong	-8181 Jul 23 j 23:32	0°♊07'05	1°27'20	
max. Earth dist.	-8181 Jul 23 j 09:40	0°♊03'06	11.24562 AU	
morning rise	-8181 Aug 09 j 13:49	2°♊00'50		
retrograde	-8181 Nov 15 j 16:07	8°♊41'47		
opposition	-8180 Jan 24 j 13:47	5°♊26'53	1°58'48	
min. Earth dist.	-8180 Jan 25 j 02:27	5°♊24'34	9.26411 AU	
direct	-8180 Apr 05 j 16:45	2°♊06'54		
evening set	-8180 Jul 17 j 07:20	9°♊02'25		
conjunction	-8180 Aug 02 j 21:50	10°♊56'03	1°47'51	
minimum elong	-8180 Aug 02 j 21:47	10°♊56'02	1°48'21	
max. Earth dist.	-8180 Aug 02 j 05:30	10°♊51'21	11.27302 AU	
morning rise	-8180 Aug 19 j 08:57	12°♊48'49		
retrograde	-8180 Nov 25 j 21:51	19°♊30'27		
opposition	-8179 Feb 04 j 02:25	16°♊15'25	2°22'02	
min. Earth dist.	-8179 Feb 04 j 17:30	16°♊12'40	9.27700 AU	
direct	-8179 Apr 17 j 05:02	12°♊56'00		
evening set	-8179 Jul 28 j 06:33	19°♊49'55		
conjunction	-8179 Aug 13 j 17:58	21°♊42'53	2°04'54	
minimum elong	-8179 Aug 13 j 17:55	21°♊42'52	2°05'26	
max. Earth dist.	-8179 Aug 12 j 23:04	21°♊37'27	11.27030 AU	
morning rise	-8179 Aug 30 j 02:41	23°♊35'13		
	-8179 Nov 17 j 04:03	0°♋		
retrograde	-8179 Dec 07 j 04:22	0°♋19'29		
	-8179 Dec 27 j 09:28	30°℞♊		
opposition	-8178 Feb 15 j 16:25	27°♊04'01	2°40'18	
min. Earth dist.	-8178 Feb 16 j 10:15	27°♊00'46	9.25961 AU	
direct	-8178 Apr 28 j 13:36	23°♊45'01		
	-8178 Aug 02 j 10:11	0°♋		
evening set	-8178 Aug 08 j 04:55	0°♋38'51		
conjunction	-8178 Aug 24 j 13:50	2°♋31'42	2°17'33	
minimum elong	-8178 Aug 24 j 13:48	2°♋31'41	2°18'05	
max. Earth dist.	-8178 Aug 23 j 15:54	2°♋25'21	11.23764 AU	
morning rise	-8178 Sep 09 j 21:10	4°♋24'10		
retrograde	-8178 Dec 18 j 14:36	11°♋13'02		
opposition	-8177 Feb 27 j 09:04	7°♋56'48	2°53'00	
min. Earth dist.	-8177 Feb 28 j 05:02	7°♋53'10	9.21254 AU	
direct	-8177 May 09 j 23:55	4°♋38'00		
evening set	-8177 Aug 19 j 04:03	11°♋33'20		
conjunction	-8177 Sep 04 j 11:34	13°♋26'38	2°25'19	
minimum elong	-8177 Sep 04 j 11:33	13°♋26'37	2°25'51	
max. Earth dist.	-8177 Sep 03 j 12:29	13°♋19'54	11.17614 AU	
morning rise	-8177 Sep 20 j 18:28	15°♋19'50		
retrograde	-8177 Dec 30 j 08:19	22°♋15'06		
opposition	-8176 Mar 10 j 05:35	18°♋57'50	2°59'35	
min. Earth dist.	-8176 Mar 11 j 01:58	18°♋54'07	9.13718 AU	
direct	-8176 May 20 j 11:56	15°♋39'05		
evening set	-8176 Aug 29 j 05:39	22°♋37'19		
conjunction	-8176 Sep 14 j 13:00	24°♋31'43	2°27'48	
minimum elong	-8176 Sep 14 j 13:00	24°♋31'43	2°28'19	
max. Earth dist.	-8176 Sep 13 j 14:08	24°♋24'58	11.08751 AU	
morning rise	-8176 Sep 30 j 20:28	26°♋26'16		
	-8176 Nov 03 j 06:23	0°♌		
retrograde	-8175 Jan 10 j 08:38	3°♌29'41		
opposition	-8175 Mar 22 j 07:22	0°♌11'08	2°59'33	
min. Earth dist.	-8175 Mar 23 j 03:18	0°♌07'27	9.03567 AU	
	-8175 Mar 24 j 19:51	30°℞♋		
direct	-8175 Jun 01 j 01:27	26°♋52'14		
	-8175 Aug 03 j 15:11	0°♌		
evening set	-8175 Sep 09 j 11:51	3°♌54'53		
conjunction	-8175 Sep 25 j 19:58	5°♌50'57	2°24'36	
minimum elong	-8175 Sep 25 j 20:00	5°♌50'57	2°25'05	
max. Earth dist.	-8175 Sep 24 j 21:05	5°♌44'08	10.97444 AU	
morning rise	-8175 Oct 12 j 05:14	7°♌47'29		
	-8174 Jan 19 j 03:54	15°♌		
retrograde	-8174 Jan 22 j 18:39	15°♌00'38		
	-8174 Jan 26 j 09:15	15°℞♌		
opposition	-8174 Apr 03 j 15:40	11°♌40'36	2°52'26	
min. Earth dist.	-8174 Apr 04 j 11:12	11°♌36'58	8.91133 AU	
direct	-8174 Jun 12 j 19:39	8°♌21'22		
	-8174 Sep 16 j 18:59	15°♌		
evening set	-8174 Sep 21 j 00:22	15°♌29'47		
max. Earth dist.	-8174 Oct 06 j 11:54	17°♌21'20	10.84095 AU	
conjunction	-8174 Oct 07 j 10:23	17°♌28'08	2°15'28	
minimum elong	-8174 Oct 07 j 10:25	17°♌28'09	2°15'54	
morning rise	-8174 Oct 23 j 22:47	19°♌27'17		
retrograde	-8173 Feb 04 j 12:57	26°♌51'36		
opposition	-8173 Apr 16 j 07:39	23°♌29'53	2°37'54	
min. Earth dist.	-8173 Apr 17 j 02:11	23°♌26'24	8.76880 AU	
direct	-8173 Jun 24 j 18:50	20°♌10'06		
evening set	-8173 Oct 02 j 20:57	27°♌25'38		
conjunction	-8173 Oct 19 j 10:11	29°♌26'50	2°00'15	
minimum elong	-8173 Oct 19 j 10:14	29°♌26'51	2°00'36	
max. Earth dist.	-8173 Oct 18 j 14:02	29°♌20'39	10.69199 AU	
	-8173 Oct 23 j 22:04	0°♍		
morning rise	-8173 Nov 05 j 02:46	1°♍29'08		
retrograde	-8172 Feb 17 j 17:44	9°♍05'49		
opposition	-8172 Apr 28 j 07:57	5°♍42'16	2°15'51	
min. Earth dist.	-8172 Apr 29 j 00:03	5°♍39'12	8.61362 AU	
direct	-8172 Jul 06 j 03:56	2°♍21'45		
evening set	-8172 Oct 14 j 03:44	9°♍45'37		
conjunction	-8172 Oct 30 j 21:15	11°♍50'10	1°39'05	
minimum elong	-8172 Oct 30 j 21:18	11°♍50'11	1°39'18	
max. Earth dist.	-8172 Oct 30 j 04:59	11°♍45'05	10.53352 AU	
morning rise	-8172 Nov 16 j 18:48	13°♍56'05		
retrograde	-8171 Mar 02 j 11:25	21°♍45'49		
opposition	-8171 May 11 j 16:57	18°♍20'24	1°46'30	
min. Earth dist.	-8171 May 12 j 05:12	18°♍18'02	8.45253 AU	
direct	-8171 Jul 18 j 20:04	14°♍59'02		
evening set	-8171 Oct 26 j 22:19	22°♍32'12		
conjunction	-8171 Nov 12 j 20:50	24°♍40'26	1°12'22	
minimum elong	-8171 Nov 12 j 20:53	24°♍40'27	1°12'29	
max. Earth dist.	-8171 Nov 12 j 08:43	24°♍36'36	10.37281 AU	
morning rise	-8171 Nov 30 j 00:04	26°♍50'17		
	-8171 Dec 26 j 19:05	0°♎		
retrograde	-8170 Mar 16 j 16:45	4°♎53'20		
opposition	-8170 May 25 j 11:14	1°♎26'03	1°10'32	
min. Earth dist.	-8170 May 25 j 19:01	1°♎24'32	8.29330 AU	
	-8170 Jun 13 j 07:22	30°℞♍		
direct	-8170 Jul 31 j 20:19	28°♍03'40		
	-8170 Sep 16 j 13:15	0°♎		
evening set	-8170 Nov 09 j 06:04	5°♎46'54		
conjunction	-8170 Nov 26 j 09:58	7°♎58'58	0°41'00	
minimum elong	-8170 Nov 26 j 10:00	7°♎58'59	0°40'59	
max. Earth dist.	-8170 Nov 26 j 02:22	7°♎56'31	10.21791 AU	
morning rise	-8170 Dec 13 j 19:18	10°♎12'50		
retrograde	-8169 Mar 31 j 07:42	18°♎28'40		

Attention, astronomical year style is used: The year -8169 in astronomical counting style is the year 8170 BCE in historical counting style.

opposition	-8169 Jun 08 j 14:18	14°♎59'41	0°29'19
min. Earth dist.	-8169 Jun 08 j 17:46	14°♎58'59	8.14430 AU
direct	-8169 Aug 14 j 07:55	11°♎36'06	
evening set	-8169 Nov 23 j 04:05	19°♎29'48	
conjunction	-8169 Dec 10 j 13:30	21°♎45'36	0°06'25
minimum elong	-8169 Dec 10 j 13:30	21°♎45'36	0°06'16
behind sun begin	-8169 Dec 10 j 06:40	21°♎43'23	
behind sun end	-8169 Dec 10 j 20:19	21°♎47'48	
max. Earth dist.	-8169 Dec 10 j 10:48	21°♎44'44	10.07708 AU
morning rise	-8169 Dec 28 j 04:43	24°♎03'17	
desc. node	-8168 Feb 16 j 11:45	29°♎43'41	
	-8168 Feb 19 j 13:41	0°♏	
retrograde	-8168 Apr 14 j 07:00	2°♏30'31	
	-8168 Jun 09 j 13:15	30°℞♎	
opposition	-8168 Jun 22 j 01:01	29°♎00'03	-0°15'05
min. Earth dist.	-8168 Jun 22 j 00:21	29°♎00'11	8.01368 AU
direct	-8168 Aug 27 j 06:01	25°♎35'11	
	-8168 Nov 06 j 16:29	0°♏	
evening set	-8168 Dec 06 j 16:12	3°♏39'12	
conjunction	-8168 Dec 24 j 06:50	5°♏58'22	-0°29'36
minimum elong	-8168 Dec 24 j 06:48	5°♏58'21	0°29'52
max. Earth dist.	-8168 Dec 24 j 09:34	5°♏59'16	9.95805 AU
morning rise	-8167 Jan 11 j 03:11	8°♏19'22	
	-8167 Mar 13 j 07:16	15°♏	
retrograde	-8167 Apr 29 j 13:30	16°♏55'52	
	-8167 Jun 16 j 14:38	15°℞♏	
opposition	-8167 Jul 06 j 18:15	13°♏24'16	-0°59'53
min. Earth dist.	-8167 Jul 06 j 13:30	13°♏25'15	7.90880 AU
direct	-8167 Sep 10 j 13:31	9°♏58'07	
	-8167 Nov 26 j 01:54	15°♏	
evening set	-8167 Dec 21 j 17:23	18°♏11'44	
conjunction	-8166 Jan 08 j 12:34	20°♏33'36	-1°04'29
minimum elong	-8166 Jan 08 j 12:30	20°♏33'35	1°04'51
max. Earth dist.	-8166 Jan 08 j 21:19	20°♏36'32	9.86806 AU
morning rise	-8166 Jan 26 j 12:53	22°♏57'09	
	-8166 Apr 01 j 15:09	0°♐	
retrograde	-8166 May 15 j 00:15	1°♐39'53	
	-8166 Jun 27 j 21:43	30°℞♏	
opposition	-8166 Jul 21 j 15:58	28°♏07'38	-1°41'47
min. Earth dist.	-8166 Jul 21 j 06:49	28°♏09'32	7.83687 AU
direct	-8166 Sep 25 j 05:35	24°♏40'17	
	-8166 Dec 13 j 03:46	0°♐	
evening set	-8165 Jan 06 j 05:52	3°♐01'53	
conjunction	-8165 Jan 24 j 04:38	5°♐25'35	-1°35'40
minimum elong	-8165 Jan 24 j 04:33	5°♐25'33	1°36'08
max. Earth dist.	-8165 Jan 24 j 19:25	5°♐30'33	9.81436 AU
morning rise	-8165 Feb 11 j 07:33	7°♐50'38	
retrograde	-8165 May 30 j 11:34	16°♐35'32	
opposition	-8165 Aug 05 j 15:29	13°♐03'05	-2°17'24
min. Earth dist.	-8165 Aug 05 j 02:07	13°♐05'53	7.80431 AU
direct	-8165 Oct 10 j 04:32	9°♐34'39	
evening set	-8164 Jan 22 j 01:53	18°♐01'37	
conjunction	-8164 Feb 09 j 03:03	20°♐26'04	-2°00'40
minimum elong	-8164 Feb 09 j 02:59	20°♐26'03	2°01'11
max. Earth dist.	-8164 Feb 09 j 23:06	20°♐32'48	9.80227 AU
morning rise	-8164 Feb 27 j 07:06	22°♐51'26	
	-8164 May 03 j 07:16	0°♑	
retrograde	-8164 Jun 13 j 19:33	1°♑33'54	
	-8164 Jul 25 j 17:08	30°℞♐	
opposition	-8164 Aug 19 j 14:07	28°♐01'47	-2°43'45
min. Earth dist.	-8164 Aug 18 j 21:19	28°♐05'19	7.81441 AU
direct	-8164 Oct 24 j 07:29	24°♐32'28	

	-8163 Jan 12 j 21:37	0°♑	
evening set	-8163 Feb 06 j 00:26	3°♑01'23	
conjunction	-8163 Feb 24 j 02:50	5°♑25'28	-2°17'30
minimum elong	-8163 Feb 24 j 02:47	5°♑25'27	2°18'03
max. Earth dist.	-8163 Feb 25 j 02:58	5°♑33'31	9.83338 AU
morning rise	-8163 Mar 14 j 06:42	7°♑49'58	
retrograde	-8163 Jun 28 j 20:17	16°♑25'32	
opposition	-8163 Sep 03 j 08:53	12°♑54'14	-2°58'49
min. Earth dist.	-8163 Sep 02 j 13:49	12°♑58'14	7.86670 AU
direct	-8163 Nov 08 j 10:53	9°♑24'20	
evening set	-8162 Feb 21 j 20:41	17°♑51'30	
conjunction	-8162 Mar 11 j 23:22	20°♑14'15	-2°25'03
minimum elong	-8162 Mar 11 j 23:22	20°♑14'14	2°25'36
max. Earth dist.	-8162 Mar 13 j 01:43	20°♑22'57	9.90550 AU
morning rise	-8162 Mar 30 j 02:05	22°♑36'55	
	-8162 Jun 10 j 03:58	0°♒	
retrograde	-8162 Jul 13 j 11:28	1°♒01'42	
	-8162 Aug 15 j 23:12	30°℞♑	
opposition	-8162 Sep 17 j 21:06	27°♑31'40	-3°01'55
min. Earth dist.	-8162 Sep 17 j 01:30	27°♑35'46	7.95719 AU
direct	-8162 Nov 23 j 11:44	24°♑01'30	
	-8161 Feb 18 j 02:10	0°♒	
evening set	-8161 Mar 09 j 10:00	2°♒23'28	
conjunction	-8161 Mar 27 j 12:08	4°♒44'05	-2°23'14
minimum elong	-8161 Mar 27 j 12:10	4°♒44'06	2°23'44
max. Earth dist.	-8161 Mar 28 j 14:26	4°♒52'40	10.01310 AU
morning rise	-8161 Apr 14 j 12:56	7°♒04'10	
	-8161 Jul 11 j 02:07	15°♒	
retrograde	-8161 Jul 27 j 15:19	15°♒15'28	
	-8161 Aug 13 j 03:53	15°℞♒	
min. Earth dist.	-8161 Oct 01 j 06:28	11°♒50'56	8.07916 AU
opposition	-8161 Oct 02 j 01:09	11°♒47'04	-2°53'35
direct	-8161 Dec 08 j 07:21	8°♒17'01	
	-8160 Mar 11 j 05:44	15°♒	
evening set	-8160 Mar 23 j 12:40	16°♒30'56	
conjunction	-8160 Apr 10 j 13:26	18°♒48'50	-2°12'48
minimum elong	-8160 Apr 10 j 13:29	18°♒48'51	2°13'13
max. Earth dist.	-8160 Apr 11 j 13:44	18°♒56'37	10.14835 AU
morning rise	-8160 Apr 28 j 11:42	21°♒05'49	
retrograde	-8160 Aug 09 j 06:33	29°♒02'13	
opposition	-8160 Oct 14 j 19:42	25°♒35'41	-2°35'20
min. Earth dist.	-8160 Oct 14 j 02:41	25°♒39'10	8.22426 AU
direct	-8160 Dec 21 j 20:11	22°♒06'08	
	-8159 Apr 05 j 17:52	0°♓	
evening set	-8159 Apr 07 j 02:25	0°♓10'01	
conjunction	-8159 Apr 25 j 01:12	2°♓24'50	-1°55'09
minimum elong	-8159 Apr 25 j 01:16	2°♓24'51	1°55'27
max. Earth dist.	-8159 Apr 25 j 22:12	2°♓31'27	10.30236 AU
morning rise	-8159 May 12 j 20:32	4°♓38'28	
retrograde	-8159 Aug 22 j 07:20	12°♓19'46	
opposition	-8159 Oct 28 j 04:16	8°♓55'12	-2°09'17
min. Earth dist.	-8159 Oct 27 j 13:23	8°♓58'12	8.38348 AU
direct	-8158 Jan 05 j 00:25	5°♓26'28	
evening set	-8158 Apr 21 j 02:20	13°♓19'20	
conjunction	-8158 May 08 j 22:35	15°♓30'54	-1°31'57
minimum elong	-8158 May 08 j 22:39	15°♓30'55	1°32'09
max. Earth dist.	-8158 May 09 j 15:35	15°♓36'10	10.46588 AU
morning rise	-8158 May 26 j 14:30	17°♓41'04	
retrograde	-8158 Sep 03 j 22:17	25°♓08'04	
opposition	-8158 Nov 10 j 03:16	21°♓45'28	-1°37'40
min. Earth dist.	-8158 Nov 09 j 14:47	21°♓47'57	8.54781 AU

Attention, astronomical year style is used: The year -8157 in astronomical counting style is the year 8158 BCE in historical counting style.

direct	-8157 Jan 18 j 17:18	18°♓17'50	
evening set	-8157 May 04 j 12:32	25°♓59'29	
conjunction	-8157 May 22 j 05:38	28°♓07'47	-1°04'59
minimum elong	-8157 May 22 j 05:40	28°♓07'48	1°05'03
max. Earth dist.	-8157 May 22 j 18:47	28°♓11'47	10.63011 AU
	-8157 Jun 06 j 16:48	0°♈	
morning rise	-8157 Jun 08 j 17:37	0°♈14'33	
retrograde	-8157 Sep 16 j 04:18	7°♈28'43	
opposition	-8157 Nov 22 j 17:30	4°♈08'00	-1°02'38
min. Earth dist.	-8157 Nov 22 j 08:28	4°♈09'46	8.70910 AU
direct	-8156 Jan 31 j 22:36	0°♈41'38	
evening set	-8156 May 16 j 09:50	8°♈12'33	
conjunction	-8156 Jun 02 j 23:12	10°♈17'43	-0°35'52
minimum elong	-8156 Jun 02 j 23:14	10°♈17'44	0°35'50
max. Earth dist.	-8156 Jun 03 j 07:56	10°♈20'20	10.78739 AU
morning rise	-8156 Jun 20 j 07:03	12°♈21'17	
retrograde	-8156 Sep 26 j 23:56	19°♈24'29	
opposition	-8156 Dec 04 j 00:00	16°♈05'31	-0°26'06
min. Earth dist.	-8156 Dec 03 j 19:16	16°♈06'26	8.86037 AU
direct	-8155 Feb 12 j 19:24	12°♈40'30	
evening set	-8155 May 28 j 19:26	20°♈01'42	
conjunction	-8155 Jun 15 j 04:36	22°♈03'55	-0°06'05
minimum elong	-8155 Jun 15 j 04:35	22°♈03'55	0°05'56
behind sun begin	-8155 Jun 14 j 21:48	22°♈01'56	
behind sun end	-8155 Jun 15 j 11:22	22°♈05'54	
max. Earth dist.	-8155 Jun 15 j 07:50	22°♈04'50	10.93117 AU
morning rise	-8155 Jul 02 j 08:19	24°♈04'34	
asc. node	-8155 Aug 30 j 23:18	29°♈43'36	
	-8155 Sep 04 j 13:16	0°♉	
retrograde	-8155 Oct 08 j 13:14	0°♉58'55	
	-8155 Nov 12 j 03:43	30°℞♈	
opposition	-8155 Dec 15 j 23:59	27°♈41'28	0°10'20
min. Earth dist.	-8155 Dec 15 j 23:33	27°♈41'34	8.99549 AU
direct	-8154 Feb 25 j 07:30	24°♈17'49	
	-8154 May 27 j 05:55	0°♉	
evening set	-8154 Jun 09 j 19:03	1°♉30'35	
conjunction	-8154 Jun 26 j 23:44	3°♉30'09	0°23'21
minimum elong	-8154 Jun 26 j 23:43	3°♉30'09	0°23'35
max. Earth dist.	-8154 Jun 26 j 21:25	3°♉29'29	11.05595 AU
morning rise	-8154 Jul 13 j 23:21	5°♉28'15	
retrograde	-8154 Oct 19 j 20:43	12°♉15'56	
opposition	-8154 Dec 27 j 18:49	8°♉59'42	0°45'23
min. Earth dist.	-8154 Dec 27 j 21:42	8°♉59'10	9.10945 AU
direct	-8153 Mar 09 j 11:34	5°♉37'24	
evening set	-8153 Jun 21 j 10:12	12°♉43'09	
conjunction	-8153 Jul 08 j 10:31	14°♉40'25	0°51'11
minimum elong	-8153 Jul 08 j 10:29	14°♉40'25	0°51'30
max. Earth dist.	-8153 Jul 08 j 04:19	14°♉38'38	11.15738 AU
	-8153 Jul 11 j 06:08	15°♉	
morning rise	-8153 Jul 25 j 05:59	16°♉36'22	
retrograde	-8153 Oct 31 j 03:13	23°♉19'36	
opposition	-8152 Jan 08 j 10:10	20°♉04'17	1°17'58
min. Earth dist.	-8152 Jan 08 j 16:21	20°♉03'08	9.19838 AU
direct	-8152 Mar 20 j 09:57	16°♉43'12	
evening set	-8152 Jul 01 j 18:30	23°♉43'26	
conjunction	-8152 Jul 18 j 14:36	25°♉38'50	1°16'41
minimum elong	-8152 Jul 18 j 14:33	25°♉38'49	1°17'05
max. Earth dist.	-8152 Jul 18 j 04:53	25°♉36'03	11.23208 AU
morning rise	-8152 Aug 04 j 06:11	27°♉33'03	
	-8152 Aug 27 j 01:34	0°♊	
retrograde	-8152 Nov 10 j 06:41	4°♊13'56	

opposition	-8151 Jan 18 j 23:23	0°♊59'12	1°47'13
min. Earth dist.	-8151 Jan 19 j 09:35	0°♊57'20	9.25939 AU
	-8151 Feb 01 j 15:42	30°℞♉	
direct	-8151 Apr 01 j 00:39	27°♉39'10	
	-8151 May 27 j 07:31	0°♊	
evening set	-8151 Jul 12 j 22:01	4°♊35'28	
conjunction	-8151 Jul 29 j 14:02	6°♊29'25	1°39'08
minimum elong	-8151 Jul 29 j 13:59	6°♊29'25	1°39'36
max. Earth dist.	-8151 Jul 28 j 23:47	6°♊25'20	11.27773 AU
morning rise	-8151 Aug 15 j 02:23	8°♊22'26	
retrograde	-8151 Nov 21 j 09:31	15°♊03'00	
opposition	-8150 Jan 30 j 11:41	11°♊48'28	2°12'24
min. Earth dist.	-8150 Jan 31 j 01:39	11°♊45'55	9.29055 AU
direct	-8150 Apr 12 j 13:36	8°♊29'15	
evening set	-8150 Jul 23 j 22:10	15°♊23'12	
conjunction	-8150 Aug 09 j 10:39	17°♊16'13	1°57'56
minimum elong	-8150 Aug 09 j 10:36	17°♊16'12	1°58'27
max. Earth dist.	-8150 Aug 08 j 16:51	17°♊11'06	11.29296 AU
morning rise	-8150 Aug 25 j 20:24	19°♊08'30	
retrograde	-8150 Dec 02 j 15:07	25°♊50'47	
opposition	-8149 Feb 11 j 00:43	22°♊36'03	2°32'52
min. Earth dist.	-8149 Feb 11 j 16:58	22°♊33'06	9.29069 AU
direct	-8149 Apr 24 j 00:46	19°♊17'27	
evening set	-8149 Aug 03 j 20:24	26°♊10'30	
max. Earth dist.	-8149 Aug 19 j 10:38	27°♊57'28	11.27703 AU
conjunction	-8149 Aug 20 j 06:16	28°♊03'08	2°12'33
minimum elong	-8149 Aug 20 j 06:14	28°♊03'07	2°13'05
morning rise	-8149 Sep 05 j 14:01	29°♊55'16	
	-8149 Sep 06 j 06:50	0°♋	
retrograde	-8149 Dec 14 j 00:30	6°♋41'11	
opposition	-8148 Feb 22 j 15:44	3°♋25'53	2°48'01
min. Earth dist.	-8148 Feb 23 j 09:38	3°♋22'38	9.25939 AU
direct	-8148 May 04 j 10:34	0°♋07'38	
evening set	-8148 Aug 13 j 18:49	7°♋01'22	
max. Earth dist.	-8148 Aug 29 j 05:08	8°♋47'52	11.22986 AU
conjunction	-8148 Aug 30 j 02:52	8°♋54'10	2°22'30
minimum elong	-8148 Aug 30 j 02:50	8°♋54'10	2°23'01
morning rise	-8148 Sep 15 j 09:36	10°♋46'44	
retrograde	-8148 Dec 24 j 15:19	17°♋38'07	
opposition	-8147 Mar 05 j 09:54	14°♋21'57	2°57'20
min. Earth dist.	-8147 Mar 06 j 06:05	14°♋18'17	9.19695 AU
direct	-8147 May 15 j 20:02	11°♋03'47	
evening set	-8147 Aug 24 j 19:01	17°♋59'47	
max. Earth dist.	-8147 Sep 09 j 01:54	19°♋46'18	11.15237 AU
conjunction	-8147 Sep 10 j 02:07	19°♋53'23	2°27'20
minimum elong	-8147 Sep 10 j 02:06	19°♋53'22	2°27'51
morning rise	-8147 Sep 26 j 09:06	21°♋47'02	
retrograde	-8146 Jan 05 j 10:12	28°♋45'46	
opposition	-8146 Mar 17 j 08:56	25°♋28'25	3°00'16
min. Earth dist.	-8146 Mar 18 j 06:40	25°♋24'26	9.10490 AU
direct	-8146 May 27 j 07:44	22°♋10'06	
evening set	-8146 Sep 04 j 22:39	29°♋09'56	
	-8146 Sep 12 j 02:16	0°♌	
max. Earth dist.	-8146 Sep 20 j 05:21	0°♌57'38	11.04700 AU
conjunction	-8146 Sep 21 j 06:03	1°♌04'57	2°26'41
minimum elong	-8146 Sep 21 j 06:04	1°♌04'57	2°27'10
morning rise	-8146 Oct 07 j 14:22	3°♌00'18	
retrograde	-8145 Jan 17 j 15:21	10°♌08'13	
opposition	-8145 Mar 29 j 13:58	6°♌49'20	2°56'21
min. Earth dist.	-8145 Mar 30 j 11:28	6°♌45'22	8.98662 AU
direct	-8145 Jun 08 j 01:20	3°♌30'39	

Attention, astronomical year style is used: The year -8145 in astronomical counting style is the year 8146 BCE in historical counting style.

evening set	-8145 Sep 16 j 07:46	10°♌35'43	
conjunction	-8145 Oct 02 j 16:48	12°♌32'49	2°20'13
minimum elong	-8145 Oct 02 j 16:50	12°♌32'49	2°20'40
max. Earth dist.	-8145 Oct 01 j 17:27	12°♌25'48	10.91774 AU
morning rise	-8145 Oct 19 j 03:31	14°♌30'32	
	-8145 Oct 23 j 08:24	15°♌	
retrograde	-8144 Jan 30 j 05:50	21°♌49'06	
opposition	-8144 Apr 10 j 01:55	18°♌28'26	2°45'11
min. Earth dist.	-8144 Apr 10 j 21:44	18°♌24'45	8.84673 AU
direct	-8144 Jun 18 j 22:01	15°♌09'09	
evening set	-8144 Sep 27 j 00:15	22°♌20'51	
conjunction	-8144 Oct 13 j 11:58	24°♌20'35	2°07'44
minimum elong	-8144 Oct 13 j 12:01	24°♌20'36	2°08'07
max. Earth dist.	-8144 Oct 12 j 13:53	24°♌13'52	10.76968 AU
morning rise	-8144 Oct 30 j 02:21	26°♌21'16	
	-8144 Dec 01 j 23:18	0°♍	
retrograde	-8143 Feb 11 j 06:31	3°♍51'47	
opposition	-8143 Apr 22 j 22:01	0°♍29'10	2°26'34
min. Earth dist.	-8143 Apr 23 j 15:52	0°♍25'47	8.69078 AU
	-8143 Apr 29 j 08:38	30°℞♌	
direct	-8143 Jul 01 j 01:42	27°♌09'02	
	-8143 Aug 28 j 21:34	0°♍	
evening set	-8143 Oct 09 j 01:54	4°♍28'39	
conjunction	-8143 Oct 25 j 17:15	6°♍31'34	1°49'15
minimum elong	-8143 Oct 25 j 17:19	6°♍31'35	1°49'31
max. Earth dist.	-8143 Oct 24 j 21:01	6°♍25'18	10.60881 AU
morning rise	-8143 Nov 11 j 12:25	8°♍35'44	
retrograde	-8142 Feb 24 j 18:10	16°♍19'11	
opposition	-8142 May 06 j 02:54	12°♍54'31	2°00'30
min. Earth dist.	-8142 May 06 j 18:19	12°♍51'34	8.52545 AU
direct	-8142 Jul 13 j 13:07	9°♍33'21	
evening set	-8142 Oct 21 j 14:34	17°♍02'02	
conjunction	-8142 Nov 07 j 10:35	19°♍08'33	1°24'59
minimum elong	-8142 Nov 07 j 10:39	19°♍08'34	1°25'09
max. Earth dist.	-8142 Nov 06 j 17:54	19°♍03'17	10.44225 AU
morning rise	-8142 Nov 24 j 11:20	21°♍16'36	
retrograde	-8141 Mar 10 j 16:26	29°♍13'33	
opposition	-8141 May 19 j 16:51	25°♍46'49	1°27'27
min. Earth dist.	-8141 May 20 j 04:54	25°♍44'27	8.35845 AU
direct	-8141 Jul 26 j 10:16	22°♍24'29	
evening set	-8141 Nov 03 j 15:52	0°♎03'11	
	-8141 Nov 03 j 05:43	0°♎	
conjunction	-8141 Nov 20 j 17:19	2°♎13'35	0°55'37
minimum elong	-8141 Nov 20 j 17:22	2°♎13'36	0°55'39
max. Earth dist.	-8141 Nov 20 j 05:52	2°♎09'54	10.27785 AU
morning rise	-8141 Dec 08 j 00:00	4°♎25'43	
retrograde	-8140 Mar 24 j 01:42	12°♎36'04	
opposition	-8140 Jun 01 j 15:48	9°♎07'22	0°48'25
min. Earth dist.	-8140 Jun 01 j 23:08	9°♎05'54	8.19811 AU
direct	-8140 Aug 07 j 18:08	5°♎43'47	
evening set	-8140 Nov 16 j 07:09	13°♎33'07	
conjunction	-8140 Dec 03 j 14:14	15°♎47'26	0°22'17
minimum elong	-8140 Dec 03 j 14:16	15°♎47'26	0°22'10
max. Earth dist.	-8140 Dec 03 j 08:44	15°♎45'38	10.12417 AU
morning rise	-8140 Dec 21 j 02:48	18°♎03'35	
retrograde	-8139 Apr 07 j 21:42	26°♎26'28	
opposition	-8139 Jun 15 j 23:12	22°♎56'03	0°05'09
min. Earth dist.	-8139 Jun 16 j 01:08	22°♎55'39	8.05333 AU
desc. node	-8139 Jul 29 j 06:16	20°♎01'03	
direct	-8139 Aug 21 j 10:56	19°♎31'11	
evening set	-8139 Nov 30 j 12:56	27°♎31'16	
conjunction	-8139 Dec 18 j 01:28	29°♎49'13	-0°13'25
minimum elong	-8139 Dec 18 j 01:27	29°♎49'13	0°13'38
behind sun begin	-8139 Dec 17 j 21:33	29°♎47'56	
behind sun end	-8139 Dec 18 j 05:21	29°♎50'30	
max. Earth dist.	-8139 Dec 18 j 02:14	29°♎49'28	9.99029 AU
	-8139 Dec 19 j 10:06	0°♏	
morning rise	-8138 Jan 04 j 19:30	2°♏09'02	
retrograde	-8138 Apr 23 j 03:00	10°♏42'37	
opposition	-8138 Jun 30 j 14:02	7°♏10'49	-0°39'55
min. Earth dist.	-8138 Jun 30 j 10:32	7°♏11'33	7.93312 AU
direct	-8138 Sep 04 j 13:08	3°♏44'40	
evening set	-8138 Dec 15 j 08:45	11°♏54'56	
conjunction	-8137 Jan 02 j 02:08	14°♏15'58	-0°49'07
minimum elong	-8137 Jan 02 j 02:05	14°♏15'57	0°49'27
max. Earth dist.	-8137 Jan 02 j 09:04	14°♏18'17	9.88488 AU
	-8137 Jan 07 j 14:04	15°♏	
morning rise	-8137 Jan 20 j 00:49	16°♏38'46	
retrograde	-8137 May 08 j 13:29	25°♏20'08	
opposition	-8137 Jul 15 j 10:26	21°♏47'26	-1°23'37
min. Earth dist.	-8137 Jul 15 j 02:04	21°♏49'11	7.84551 AU
direct	-8137 Sep 19 j 01:23	18°♏20'01	
evening set	-8137 Dec 30 j 17:02	26°♏39'09	
conjunction	-8136 Jan 17 j 14:19	29°♏02'24	-1°22'19
minimum elong	-8136 Jan 17 j 14:15	29°♏02'22	1°22'45
max. Earth dist.	-8136 Jan 18 j 03:03	29°♏06'40	9.81531 AU
	-8136 Jan 24 j 17:57	0°♐	
morning rise	-8136 Feb 04 j 16:18	1°♐27'10	
retrograde	-8136 May 23 j 01:41	10°♐12'29	
opposition	-8136 Jul 29 j 09:49	6°♐39'26	-2°02'30
min. Earth dist.	-8136 Jul 28 j 21:29	6°♐42'01	7.79684 AU
direct	-8136 Oct 02 j 21:50	3°♐10'54	
evening set	-8135 Jan 14 j 10:24	11°♐36'34	
conjunction	-8135 Feb 01 j 10:31	14°♐01'00	-1°50'24
minimum elong	-8135 Feb 01 j 10:27	14°♐00'58	1°50'54
max. Earth dist.	-8135 Feb 02 j 04:40	14°♐07'06	9.78698 AU
morning rise	-8135 Feb 19 j 14:20	16°♐26'35	
retrograde	-8135 Jun 07 j 11:55	25°♐11'24	
opposition	-8135 Aug 13 j 09:37	21°♐38'33	-2°33'19
min. Earth dist.	-8135 Aug 12 j 17:55	21°♐41'51	7.79094 AU
direct	-8135 Oct 18 j 00:08	18°♐09'08	
evening set	-8134 Jan 30 j 08:29	26°♐38'11	
conjunction	-8134 Feb 17 j 10:22	29°♐02'43	-2°11'04
minimum elong	-8134 Feb 17 j 10:18	29°♐02'42	2°11'37
max. Earth dist.	-8134 Feb 18 j 08:55	29°♐10'16	9.80236 AU
	-8134 Feb 24 j 13:26	0°♑	
morning rise	-8134 Mar 07 j 14:40	1°♑27'55	
retrograde	-8134 Jun 22 j 15:43	10°♑07'38	
opposition	-8134 Aug 28 j 06:43	6°♑35'33	-2°53'35
min. Earth dist.	-8134 Aug 27 j 12:33	6°♑39'23	7.82833 AU
direct	-8134 Nov 02 j 04:20	3°♑05'34	
evening set	-8133 Feb 15 j 06:41	11°♑34'26	
conjunction	-8133 Mar 05 j 09:18	13°♑58'00	-2°22'50
minimum elong	-8133 Mar 05 j 09:17	13°♑58'00	2°23'22
max. Earth dist.	-8133 Mar 06 j 10:43	14°♑06'27	9.86043 AU
morning rise	-8133 Mar 23 j 12:53	16°♑21'45	
retrograde	-8133 Jul 07 j 11:05	24°♑52'10	
opposition	-8133 Sep 11 j 22:21	21°♑21'22	-3°01'59
min. Earth dist.	-8133 Sep 11 j 02:35	21°♑25'31	7.90630 AU
direct	-8133 Nov 17 j 07:10	17°♑51'10	
evening set	-8132 Mar 01 j 23:54	26°♑16'13	
conjunction	-8132 Mar 20 j 02:23	28°♑37'58	-2°25'06

Attention, astronomical year style is used: The year -8132 in astronomical counting style is the year 8133 BCE in historical counting style.

minimum elong	-8132 Mar 20 j 02:23	28°♓37'58	2°25'37
max. Earth dist.	-8132 Mar 21 j 05:09	28°♓46'45	9.95700 AU
	-8132 Mar 30 j 12:50	0°♒	
morning rise	-8132 Apr 07 j 04:16	0°♒59'22	
retrograde	-8132 Jul 20 j 20:27	9°♒17'17	
min. Earth dist.	-8132 Sep 24 j 10:02	5°♒52'25	8.01924 AU
opposition	-8132 Sep 25 j 06:33	5°♒48'09	-2°58'31
direct	-8132 Dec 01 j 05:47	2°♒18'08	
evening set	-8131 Mar 17 j 07:51	10°♒36'10	
conjunction	-8131 Apr 04 j 09:26	12°♒55'23	-2°18'19
minimum elong	-8131 Apr 04 j 09:28	12°♒55'24	2°18'45
max. Earth dist.	-8131 Apr 05 j 12:10	13°♒04'02	10.08522 AU
	-8131 Apr 20 j 13:14	15°♒	
morning rise	-8131 Apr 22 j 08:58	15°♒13'51	
retrograde	-8131 Aug 03 j 18:07	23°♒17'17	
min. Earth dist.	-8131 Oct 08 j 10:01	19°♒54'07	8.15942 AU
opposition	-8131 Oct 09 j 05:44	19°♒50'04	-2°44'21
direct	-8131 Dec 15 j 21:36	16°♒20'35	
evening set	-8130 Apr 01 j 04:03	24°♒29'14	
conjunction	-8130 Apr 19 j 04:01	26°♒45'28	-2°03'36
minimum elong	-8130 Apr 19 j 04:04	26°♒45'29	2°03'57
max. Earth dist.	-8130 Apr 20 j 04:49	26°♒53'21	10.23640 AU
morning rise	-8130 May 07 j 00:40	29°♒00'37	
	-8130 May 15 j 02:18	0°♓	
retrograde	-8130 Aug 17 j 02:40	6°♓48'43	
opposition	-8130 Oct 22 j 19:02	3°♓23'38	-2°21'24
min. Earth dist.	-8130 Oct 22 j 01:41	3°♓27'09	8.31778 AU
	-8130 Dec 20 j 10:58	30°℞♒	
direct	-8130 Dec 30 j 05:10	29°♒54'57	
	-8129 Jan 08 j 23:30	0°♓	
evening set	-8129 Apr 15 j 10:49	7°♓52'47	
conjunction	-8129 May 03 j 08:22	10°♓05'46	-1°42'36
minimum elong	-8129 May 03 j 08:26	10°♓05'47	1°42'50
max. Earth dist.	-8129 May 04 j 05:25	10°♓12'20	10.40099 AU
morning rise	-8129 May 21 j 01:42	12°♓17'25	
retrograde	-8129 Aug 29 j 23:06	19°♓50'34	
opposition	-8129 Nov 04 j 22:44	16°♓27'35	-1°51'54
min. Earth dist.	-8129 Nov 04 j 08:50	16°♓30'22	8.48486 AU
direct	-8128 Jan 13 j 02:45	12°♓59'58	
evening set	-8128 Apr 28 j 03:24	20°♓46'22	
conjunction	-8128 May 15 j 21:52	22°♓56'02	-1°17'03
minimum elong	-8128 May 15 j 21:55	22°♓56'03	1°17'10
max. Earth dist.	-8128 May 16 j 13:40	23°♓00'52	10.56938 AU
morning rise	-8128 Jun 02 j 11:36	25°♓04'11	
	-8128 Jul 19 j 04:59	0°♈	
retrograde	-8128 Sep 10 j 08:02	2°♈23'38	
	-8128 Nov 04 j 08:06	30°℞♓	
opposition	-8128 Nov 16 j 17:00	29°♓02'37	-1°18'06
min. Earth dist.	-8128 Nov 16 j 06:48	29°♓04'37	8.65131 AU
direct	-8127 Jan 25 j 14:25	25°♓36'12	
	-8127 Apr 12 j 12:54	0°♈	
evening set	-8127 May 11 j 06:32	3°♈11'29	
conjunction	-8127 May 28 j 21:26	5°♈17'54	-0°48'40
minimum elong	-8127 May 28 j 21:29	5°♈17'55	0°48'41
max. Earth dist.	-8127 May 29 j 07:18	5°♈20'52	10.73242 AU
morning rise	-8127 Jun 15 j 07:18	7°♈22'46	
retrograde	-8127 Sep 22 j 06:48	14°♈30'17	
opposition	-8127 Nov 29 j 02:40	11°♈11'05	-0°42'01
min. Earth dist.	-8127 Nov 28 j 20:07	11°♈12'20	8.80845 AU
direct	-8126 Feb 07 j 16:39	7°♈45'57	
evening set	-8126 May 23 j 21:22	15°♈11'04	
conjunction	-8126 Jun 10 j 08:24	17°♈14'27	-0°19'00
minimum elong	-8126 Jun 10 j 08:25	17°♈14'27	0°18'53
max. Earth dist.	-8126 Jun 10 j 13:10	17°♈15'51	10.88231 AU
morning rise	-8126 Jun 27 j 14:03	19°♈16'16	
retrograde	-8126 Oct 04 j 00:31	26°♈14'03	
opposition	-8126 Dec 11 j 05:27	22°♈56'25	-0°05'22
min. Earth dist.	-8126 Dec 11 j 02:48	22°♈56'55	8.94962 AU
asc. node	-8125 Feb 04 j 12:12	19°♈44'38	
direct	-8125 Feb 20 j 08:07	19°♈32'37	
evening set	-8125 Jun 05 j 01:23	26°♈48'45	
conjunction	-8125 Jun 22 j 08:10	28°♈49'24	0°10'46
minimum elong	-8125 Jun 22 j 08:09	28°♈49'23	0°10'58
behind sun begin	-8125 Jun 22 j 02:49	28°♈47'51	
behind sun end	-8125 Jun 22 j 13:30	28°♈50'56	
max. Earth dist.	-8125 Jun 22 j 08:23	28°♈49'27	11.01349 AU
	-8125 Jul 02 j 09:37	0°♉	
morning rise	-8125 Jul 09 j 09:27	0°♉48'29	
retrograde	-8125 Oct 15 j 10:52	7°♉38'45	
opposition	-8125 Dec 23 j 02:41	4°♉22'22	0°30'25
min. Earth dist.	-8125 Dec 23 j 04:41	4°♉22'00	9.07026 AU
direct	-8124 Mar 03 j 14:45	0°♉59'49	
evening set	-8124 Jun 15 j 20:19	8°♉08'22	
conjunction	-8124 Jul 02 j 22:35	10°♉06'34	0°39'21
minimum elong	-8124 Jul 02 j 22:34	10°♉06'34	0°39'38
max. Earth dist.	-8124 Jul 02 j 17:28	10°♉05'05	11.12202 AU
morning rise	-8124 Jul 19 j 19:46	12°♉03'22	
	-8124 Aug 16 j 09:14	15°♉	
retrograde	-8124 Oct 25 j 16:55	18°♉48'14	
opposition	-8123 Jan 02 j 19:30	15°♉32'47	1°04'11
min. Earth dist.	-8123 Jan 03 j 01:59	15°♉31'35	9.16678 AU
	-8123 Jan 10 j 05:02	15°℞♉	
direct	-8123 Mar 15 j 15:45	12°♉11'18	
	-8123 May 16 j 11:58	15°♉	
evening set	-8123 Jun 27 j 07:38	19°♉13'47	
conjunction	-8123 Jul 14 j 05:29	21°♉09'56	1°05'57
minimum elong	-8123 Jul 14 j 05:26	21°♉09'55	1°06'19
max. Earth dist.	-8123 Jul 13 j 19:10	21°♉06'57	11.20474 AU
morning rise	-8123 Jul 30 j 22:53	23°♉04'51	
retrograde	-8123 Nov 05 j 19:58	29°♉46'28	
opposition	-8122 Jan 14 j 09:23	26°♉31'33	1°34'59
min. Earth dist.	-8122 Jan 14 j 19:14	26°♉29'44	9.23612 AU
direct	-8122 Mar 27 j 10:26	23°♉11'00	
	-8122 Jul 07 j 05:15	0°♊	
evening set	-8122 Jul 08 j 13:00	0°♊08'54	
conjunction	-8122 Jul 25 j 06:47	2°♊03'26	1°29'48
minimum elong	-8122 Jul 25 j 06:44	2°♊03'25	1°30'15
max. Earth dist.	-8122 Jul 24 j 17:07	1°♊59'31	11.25908 AU
morning rise	-8122 Aug 10 j 20:35	3°♊56'56	
retrograde	-8122 Nov 16 j 23:51	10°♊37'25	
opposition	-8121 Jan 25 j 21:50	7°♊22'40	2°02'01
min. Earth dist.	-8121 Jan 26 j 10:21	7°♊20'23	9.27620 AU
direct	-8121 Apr 08 j 01:44	4°♊02'53	
evening set	-8121 Jul 19 j 14:13	10°♊57'44	
max. Earth dist.	-8121 Aug 04 j 11:58	12°♊46'26	11.28356 AU
conjunction	-8121 Aug 05 j 04:23	12°♊51'09	1°50'15
minimum elong	-8121 Aug 05 j 04:20	12°♊51'08	1°50'46
morning rise	-8121 Aug 21 j 15:05	14°♊43'43	
retrograde	-8121 Nov 28 j 04:59	21°♊25'03	
opposition	-8120 Feb 06 j 10:19	18°♊10'08	2°24'37
min. Earth dist.	-8120 Feb 07 j 02:06	18°♊07'16	9.28603 AU
direct	-8120 Apr 18 j 11:50	14°♊50'55	
evening set	-8120 Jul 29 j 12:53	21°♊44'16	

Attention, astronomical year style is used: The year -8120 in astronomical counting style is the year 8121 BCE in historical counting style.

conjunction	-8120 Aug 14 j 23:54	23°♊37'04	2°06'45
minimum elong	-8120 Aug 14 j 23:51	23°♊37'04	2°07'18
max. Earth dist.	-8120 Aug 14 j 03:59	23°♊31'21	11.27767 AU
morning rise	-8120 Aug 31 j 08:28	25°♊29'17	
	-8120 Oct 15 j 23:01	0°♋	
retrograde	-8120 Dec 08 j 10:20	2°♋13'27	
	-8119 Feb 02 j 12:51	30°℞♊	
opposition	-8119 Feb 17 j 00:04	28°♊58'02	2°42'11
min. Earth dist.	-8119 Feb 17 j 18:44	28°♊54'38	9.26536 AU
direct	-8119 Apr 29 j 21:16	25°♊39'07	
	-8119 Jul 16 j 19:17	0°♋	
evening set	-8119 Aug 09 j 10:51	2°♋32'36	
conjunction	-8119 Aug 25 j 19:32	4°♋25'20	2°18'48
minimum elong	-8119 Aug 25 j 19:30	4°♋25'20	2°19'20
max. Earth dist.	-8119 Aug 24 j 21:10	4°♋18'52	11.24163 AU
morning rise	-8119 Sep 11 j 02:47	6°♋17'44	
retrograde	-8119 Dec 19 j 21:52	13°♋06'39	
opposition	-8118 Feb 28 j 16:24	9°♋50'24	2°54'08
min. Earth dist.	-8118 Mar 01 j 12:24	9°♋46'46	9.21475 AU
direct	-8118 May 11 j 07:59	6°♋31'41	
evening set	-8118 Aug 20 j 09:43	13°♋26'45	
conjunction	-8118 Sep 05 j 17:13	15°♋20'02	2°25'57
minimum elong	-8118 Sep 05 j 17:12	15°♋20'02	2°26'28
max. Earth dist.	-8118 Sep 04 j 18:27	15°♋13'23	11.17651 AU
morning rise	-8118 Sep 21 j 23:59	17°♋13'13	
retrograde	-8118 Dec 31 j 15:03	24°♋08'43	
opposition	-8117 Mar 12 j 12:58	20°♋51'23	2°59'57
min. Earth dist.	-8117 Mar 13 j 09:09	20°♋47'41	9.13571 AU
direct	-8117 May 22 j 18:15	17°♋32'40	
evening set	-8117 Aug 31 j 11:18	24°♋30'49	
conjunction	-8117 Sep 16 j 18:36	26°♋25'14	2°27'45
minimum elong	-8117 Sep 16 j 18:37	26°♋25'14	2°28'16
max. Earth dist.	-8117 Sep 15 j 19:18	26°♋18'22	11.08426 AU
morning rise	-8117 Oct 03 j 02:06	28°♋19'51	
	-8117 Oct 17 j 22:40	0°♌	
retrograde	-8116 Jan 12 j 16:53	5°♌23'40	
opposition	-8116 Mar 23 j 14:59	2°♌05'00	2°59'06
min. Earth dist.	-8116 Mar 24 j 11:27	2°♌01'14	9.03063 AU
	-8116 Apr 23 j 04:32	30°℞♋	
direct	-8116 Jun 02 j 08:13	28°♋46'04	
	-8116 Jul 11 j 08:19	0°♌	
evening set	-8116 Sep 10 j 17:42	5°♌48'48	
max. Earth dist.	-8116 Sep 26 j 01:50	7°♌37'49	10.96779 AU
conjunction	-8116 Sep 27 j 01:50	7°♌44'59	2°23'53
minimum elong	-8116 Sep 27 j 01:51	7°♌44'59	2°24'21
morning rise	-8116 Oct 13 j 11:24	9°♌41'39	
	-8116 Dec 05 j 14:56	15°♌	
retrograde	-8115 Jan 24 j 01:24	16°♌55'22	
	-8115 Mar 16 j 07:49	15°℞♌	
opposition	-8115 Apr 04 j 23:28	13°♌35'10	2°51'09
min. Earth dist.	-8115 Apr 05 j 19:58	13°♌31'21	8.90295 AU
direct	-8115 Jun 14 j 01:43	10°♌15'50	
	-8115 Sep 01 j 00:37	15°♌	
evening set	-8115 Sep 22 j 06:29	17°♌24'35	
conjunction	-8115 Oct 08 j 16:44	19°♌23'06	2°14'04
minimum elong	-8115 Oct 08 j 16:47	19°♌23'07	2°14'28
max. Earth dist.	-8115 Oct 07 j 18:03	19°♌16'14	10.83106 AU
morning rise	-8115 Oct 25 j 05:29	21°♌22'27	
retrograde	-8114 Feb 05 j 20:10	28°♌47'33	
opposition	-8114 Apr 17 j 15:48	25°♌25'37	2°35'47
min. Earth dist.	-8114 Apr 18 j 10:37	25°♌22'05	8.75728 AU
direct	-8114 Jun 26 j 03:19	22°♌05'42	

evening set	-8114 Oct 04 j 03:34	29°♌21'45	
	-8114 Oct 09 j 09:53	0°♍	
conjunction	-8114 Oct 20 j 17:13	1°♍23'13	1°58'11
minimum elong	-8114 Oct 20 j 17:17	1°♍23'14	1°58'30
max. Earth dist.	-8114 Oct 19 j 21:29	1°♍17'09	10.67910 AU
morning rise	-8114 Nov 06 j 10:06	3°♍25'47	
retrograde	-8113 Feb 19 j 04:07	11°♍03'27	
opposition	-8113 Apr 30 j 16:41	7°♍39'40	2°12'56
min. Earth dist.	-8113 May 01 j 08:23	7°♍36'40	8.59937 AU
direct	-8113 Jul 08 j 11:32	4°♍19'01	
evening set	-8113 Oct 16 j 11:12	11°♍43'34	
conjunction	-8113 Nov 02 j 05:10	13°♍48'27	1°36'22
minimum elong	-8113 Nov 02 j 05:13	13°♍48'28	1°36'35
max. Earth dist.	-8113 Nov 01 j 12:51	13°♍43'21	10.51819 AU
morning rise	-8113 Nov 19 j 03:10	15°♍54'42	
retrograde	-8112 Mar 03 j 22:32	23°♍45'37	
opposition	-8112 May 13 j 02:29	20°♍19'57	1°42'49
min. Earth dist.	-8112 May 13 j 14:26	20°♍17'38	8.43616 AU
direct	-8112 Jul 20 j 03:12	16°♍58'25	
evening set	-8112 Oct 28 j 06:58	24°♍32'33	
conjunction	-8112 Nov 14 j 05:54	26°♍41'10	1°09'06
minimum elong	-8112 Nov 14 j 05:57	26°♍41'11	1°09'11
max. Earth dist.	-8112 Nov 13 j 17:03	26°♍37'05	10.35578 AU
morning rise	-8112 Dec 01 j 09:46	28°♍51'25	
	-8112 Dec 10 j 16:57	0°♎	
retrograde	-8111 Mar 18 j 04:02	6°♎55'45	
opposition	-8111 May 26 j 21:43	3°♎28'16	1°06'11
min. Earth dist.	-8111 May 27 j 05:46	3°♎26'41	8.27567 AU
direct	-8111 Aug 02 j 05:28	0°♎05'41	
evening set	-8111 Nov 10 j 16:04	7°♎50'07	
conjunction	-8111 Nov 27 j 20:24	10°♎02'36	0°37'18
minimum elong	-8111 Nov 27 j 20:26	10°♎02'36	0°37'15
max. Earth dist.	-8111 Nov 27 j 12:17	9°♎59'58	10.20015 AU
morning rise	-8111 Dec 15 j 06:22	12°♎16'54	
retrograde	-8110 Apr 01 j 20:02	20°♎34'09	
opposition	-8110 Jun 10 j 01:52	17°♎04'58	0°24'29
min. Earth dist.	-8110 Jun 10 j 05:43	17°♎04'12	8.12661 AU
direct	-8110 Aug 15 j 18:13	13°♎41'13	
evening set	-8110 Nov 24 j 15:35	21°♎36'15	
conjunction	-8110 Dec 12 j 01:31	23°♎52'28	0°02'26
minimum elong	-8110 Dec 12 j 01:30	23°♎52'28	0°02'16
behind sun begin	-8110 Dec 11 j 18:17	23°♎50'07	
behind sun end	-8110 Dec 12 j 08:43	23°♎54'48	
max. Earth dist.	-8110 Dec 11 j 23:10	23°♎51'45	10.05995 AU
morning rise	-8110 Dec 29 j 17:15	26°♎10'35	
desc. node	-8109 Jan 06 j 11:37	27°♎09'48	
	-8109 Jan 30 j 11:08	0°♏	
retrograde	-8109 Apr 16 j 21:07	4°♏39'14	
opposition	-8109 Jun 24 j 13:42	1°♏08'37	-0°20'08
min. Earth dist.	-8109 Jun 24 j 12:58	1°♏08'46	7.99755 AU
	-8109 Jul 08 j 21:44	30°℞♎	
direct	-8109 Aug 29 j 17:20	27°♎43'36	
	-8109 Oct 18 j 13:41	0°♏	
evening set	-8109 Dec 09 j 05:23	5°♏48'59	
conjunction	-8109 Dec 26 j 20:33	8°♏08'31	-0°33'37
minimum elong	-8109 Dec 26 j 20:31	8°♏08'30	0°33'54
max. Earth dist.	-8109 Dec 27 j 00:30	8°♏09'50	9.94331 AU
morning rise	-8108 Jan 13 j 17:16	10°♏29'53	
	-8108 Feb 20 j 06:37	15°♏	
retrograde	-8108 May 01 j 04:25	19°♏07'34	
opposition	-8108 Jul 08 j 07:49	15°♏35'51	-1°04'48

Attention, astronomical year style is used: The year -8108 in astronomical counting style is the year 8109 BCE in historical counting style.

min. Earth dist.	-8108 Jul 08 j 02:23	15°♏36'58	7.89593 AU	
	-8108 Jul 15 j 14:35	15°℞♏		
direct	-8108 Sep 12 j 02:39	12°♏09'33		
	-8108 Nov 06 j 22:37	15°♏		
evening set	-8108 Dec 23 j 08:11	20°♏24'22		
conjunction	-8107 Jan 10 j 03:47	22°♏46'32	-1°08'14	
minimum elong	-8107 Jan 10 j 03:43	22°♏46'30	1°08'37	
max. Earth dist.	-8107 Jan 10 j 14:00	22°♏49'57	9.85702 AU	
morning rise	-8107 Jan 28 j 04:16	25°♏10'19		
	-8107 Mar 09 j 10:30	0°♐		
retrograde	-8107 May 16 j 15:33	3°♐53'51		
opposition	-8107 Jul 23 j 06:07	0°♐21'30	-1°46'12	
min. Earth dist.	-8107 Jul 22 j 19:59	0°♐23'36	7.82793 AU	
	-8107 Jul 27 j 13:33	30°℞♏		
direct	-8107 Sep 26 j 19:48	26°♏54'02		
	-8107 Nov 24 j 05:43	0°♐		
evening set	-8106 Jan 07 j 21:51	5°♐16'38		
conjunction	-8106 Jan 25 j 20:52	7°♐40'31	-1°38'51	
minimum elong	-8106 Jan 25 j 20:48	7°♐40'30	1°39'20	
max. Earth dist.	-8106 Jan 26 j 12:50	7°♐45'53	9.80724 AU	
morning rise	-8106 Feb 12 j 23:49	10°♐05'43		
retrograde	-8106 Jun 01 j 03:12	18°♐51'03		
opposition	-8106 Aug 07 j 06:05	15°♐18'36	-2°20'56	
min. Earth dist.	-8106 Aug 06 j 15:52	15°♐21'35	7.79922 AU	
direct	-8106 Oct 11 j 18:56	11°♐50'06		
evening set	-8105 Jan 23 j 18:42	20°♐17'50		
conjunction	-8105 Feb 10 j 20:01	22°♐42'23	-2°03'02	
minimum elong	-8105 Feb 10 j 19:57	22°♐42'22	2°03'34	
max. Earth dist.	-8105 Feb 11 j 16:49	22°♐49'22	9.79900 AU	
morning rise	-8105 Mar 01 j 00:02	25°♐07'48		
	-8105 Apr 10 j 12:09	0°♑		
retrograde	-8105 Jun 16 j 11:18	3°♑50'21		
min. Earth dist.	-8105 Aug 21 j 11:47	0°♑21'55	7.81310 AU	
opposition	-8105 Aug 22 j 04:57	0°♑18'18	-2°46'06	
	-8105 Aug 25 j 19:56	30°℞♐		
direct	-8105 Oct 26 j 21:24	26°♐48'57		
	-8105 Dec 25 j 15:37	0°♑		
evening set	-8104 Feb 08 j 17:53	5°♑18'22		
conjunction	-8104 Feb 26 j 20:18	7°♑42'28	-2°18'51	
minimum elong	-8104 Feb 26 j 20:15	7°♑42'28	2°19'24	
max. Earth dist.	-8104 Feb 27 j 20:36	7°♑50'35	9.83391 AU	
morning rise	-8104 Mar 16 j 00:06	10°♑06'57		
retrograde	-8104 Jun 30 j 12:33	18°♑42'11		
opposition	-8104 Sep 04 j 23:42	15°♑11'02	-2°59'49	
min. Earth dist.	-8104 Sep 04 j 04:50	15°♑15'00	7.86912 AU	
direct	-8104 Nov 10 j 01:16	11°♑41'07		
evening set	-8103 Feb 23 j 14:11	20°♑08'28		
conjunction	-8103 Mar 13 j 16:47	22°♑31'10	-2°25'18	
minimum elong	-8103 Mar 13 j 16:47	22°♑31'10	2°25'50	
max. Earth dist.	-8103 Mar 14 j 18:48	22°♑39'45	9.90976 AU	
morning rise	-8103 Mar 31 j 19:24	24°♑53'44		
	-8103 May 14 j 13:19	0°♒		
retrograde	-8103 Jul 15 j 03:31	3°♒17'51		
	-8103 Sep 17 j 02:24	30°℞♑		
opposition	-8103 Sep 19 j 11:48	29°♑48'01	-3°01'30	
min. Earth dist.	-8103 Sep 18 j 16:38	29°♑52'01	7.96326 AU	
direct	-8103 Nov 25 j 03:07	26°♑17'53		
	-8102 Jan 30 j 06:43	0°♒		
evening set	-8102 Mar 11 j 03:01	4°♒39'41		
conjunction	-8102 Mar 29 j 05:01	7°♒00'09	-2°22'23	
minimum elong	-8102 Mar 29 j 05:03	7°♒00'10	2°22'52	
max. Earth dist.	-8102 Mar 30 j 06:41	7°♒08'31	10.02092 AU	
morning rise	-8102 Apr 16 j 05:45	9°♒20'05		
	-8102 Jun 05 j 23:18	15°♒		
retrograde	-8102 Jul 29 j 05:44	17°♒30'25		
	-8102 Sep 21 j 20:26	15°℞♒		
opposition	-8102 Oct 03 j 15:23	14°♒02'15	-2°51'52	
min. Earth dist.	-8102 Oct 02 j 20:51	14°♒06'05	8.08856 AU	
direct	-8102 Dec 09 j 23:47	10°♒32'17		
	-8101 Feb 22 j 06:13	15°♒		
evening set	-8101 Mar 26 j 05:00	18°♒45'43		
conjunction	-8101 Apr 13 j 05:40	21°♒03'24	-2°10'59	
minimum elong	-8101 Apr 13 j 05:43	21°♒03'25	2°11'22	
max. Earth dist.	-8101 Apr 14 j 05:24	21°♒11'01	10.15931 AU	
morning rise	-8101 May 01 j 03:50	23°♒20'11		
	-8101 Jul 05 j 13:37	0°♓		
retrograde	-8101 Aug 11 j 18:29	1°♓15'26		
	-8101 Sep 18 j 10:10	30°℞♒		
opposition	-8101 Oct 17 j 09:16	27°♒49'09	-2°32'30	
min. Earth dist.	-8101 Oct 16 j 15:54	27°♒52'41	8.23645 AU	
direct	-8101 Dec 24 j 12:38	24°♒19'43		
	-8100 Mar 19 j 17:51	0°♓		
evening set	-8100 Apr 08 j 17:48	2°♓22'51		
conjunction	-8100 Apr 26 j 16:29	4°♓37'26	-1°52'31	
minimum elong	-8100 Apr 26 j 16:33	4°♓37'27	1°52'48	
max. Earth dist.	-8100 Apr 27 j 13:30	4°♓44'02	10.31584 AU	
morning rise	-8100 May 14 j 11:33	6°♓50'46		
retrograde	-8100 Aug 23 j 19:53	14°♓30'52		
opposition	-8100 Oct 29 j 17:11	11°♓06'31	-2°05'34	
min. Earth dist.	-8100 Oct 29 j 01:41	11°♓09'38	8.39784 AU	
direct	-8099 Jan 06 j 14:25	7°♓37'57		
evening set	-8099 Apr 22 j 16:26	15°♓29'49		
conjunction	-8099 May 10 j 12:33	17°♓41'07	-1°28'43	
minimum elong	-8099 May 10 j 12:36	17°♓41'09	1°28'53	
max. Earth dist.	-8099 May 11 j 06:14	17°♓46'35	10.48121 AU	
morning rise	-8099 May 28 j 04:05	19°♓50'58		
retrograde	-8099 Sep 05 j 10:46	27°♓16'44		
opposition	-8099 Nov 11 j 15:27	23°♓54'21	-1°33'22	
min. Earth dist.	-8099 Nov 11 j 02:52	23°♓56'50	8.56368 AU	
direct	-8098 Jan 20 j 05:50	20°♓26'52		
evening set	-8098 May 06 j 01:28	28°♓07'24		
	-8098 May 21 j 15:29	0°♈		
conjunction	-8098 May 23 j 18:18	0°♈15'25	-1°01'22	
minimum elong	-8098 May 23 j 18:20	0°♈15'26	1°01'25	
max. Earth dist.	-8098 May 24 j 07:52	0°♈19'33	10.64656 AU	
morning rise	-8098 Jun 10 j 05:53	2°♈21'52		
retrograde	-8098 Sep 17 j 14:09	9°♈34'48		
opposition	-8098 Nov 24 j 04:48	6°♈14'17	-0°58'01	
min. Earth dist.	-8098 Nov 23 j 20:23	6°♈15'55	8.72581 AU	
direct	-8097 Feb 02 j 11:32	2°♈48'02		
evening set	-8097 May 18 j 21:36	10°♈17'51		
conjunction	-8097 Jun 05 j 10:30	12°♈22'40	-0°32'04	
minimum elong	-8097 Jun 05 j 10:32	12°♈22'41	0°32'00	
max. Earth dist.	-8097 Jun 05 j 18:40	12°♈25'07	10.80424 AU	
morning rise	-8097 Jun 22 j 18:02	14°♈25'55		
retrograde	-8097 Sep 29 j 09:31	21°♈27'58		
opposition	-8097 Dec 06 j 10:33	18°♈09'09	-0°21'24	
min. Earth dist.	-8097 Dec 06 j 06:14	18°♈09'59	8.87719 AU	
direct	-8096 Feb 15 j 07:34	14°♈44'15		
evening set	-8096 May 30 j 05:54	22°♈04'19		
conjunction	-8096 Jun 16 j 14:32	24°♈06'12	-0°02'16	
minimum elong	-8096 Jun 16 j 14:32	24°♈06'12	0°02'07	

Attention, astronomical year style is used: The year -8096 in astronomical counting style is the year 8097 BCE in historical counting style.

behind sun begin	-8096 Jun 16 j 07:26	24°♈04'08	
behind sun end	-8096 Jun 16 j 21:39	24°♈08'16	
max. Earth dist.	-8096 Jun 16 j 17:04	24°♈06'53	10.94779 AU
morning rise	-8096 Jul 03 j 17:57	26°♈06'32	
asc. node	-8096 Jul 15 j 00:08	27°♈22'55	
	-8096 Aug 09 j 18:54	0°♉	
retrograde	-8096 Oct 09 j 20:43	2°♉59'51	
	-8096 Dec 13 j 12:51	30°℞♈	
opposition	-8096 Dec 17 j 09:41	29°♈42'30	0°14'55
min. Earth dist.	-8096 Dec 17 j 08:52	29°♈42'39	9.01180 AU
direct	-8095 Feb 26 j 18:37	26°♈18'58	
	-8095 May 08 j 22:35	0°♉	
evening set	-8095 Jun 11 j 04:16	3°♉30'36	
conjunction	-8095 Jun 28 j 08:34	5°♉29'51	0°27'00
minimum elong	-8095 Jun 28 j 08:33	5°♉29'50	0°27'15
max. Earth dist.	-8095 Jun 28 j 06:28	5°♉29'14	11.07177 AU
morning rise	-8095 Jul 15 j 07:44	7°♉27'38	
retrograde	-8095 Oct 21 j 04:46	14°♉14'25	
opposition	-8095 Dec 29 j 03:37	10°♉58'15	0°49'41
min. Earth dist.	-8095 Dec 29 j 06:11	10°♉57'47	9.12466 AU
direct	-8094 Mar 10 j 22:25	7°♉36'03	
evening set	-8094 Jun 22 j 18:21	14°♉40'46	
	-8094 Jun 25 j 14:14	15°♉	
conjunction	-8094 Jul 09 j 18:18	16°♉37'44	0°54'33
minimum elong	-8094 Jul 09 j 18:16	16°♉37'43	0°54'53
max. Earth dist.	-8094 Jul 09 j 12:30	16°♉36'04	11.17182 AU
morning rise	-8094 Jul 26 j 13:15	18°♉33'22	
retrograde	-8094 Nov 01 j 10:08	25°♉15'49	
opposition	-8093 Jan 09 j 18:18	22°♉00'33	1°21'51
min. Earth dist.	-8093 Jan 10 j 01:03	21°♉59'19	9.21202 AU
direct	-8093 Mar 22 j 17:28	18°♉39'34	
evening set	-8093 Jul 04 j 01:47	25°♉38'52	
conjunction	-8093 Jul 20 j 21:21	27°♉33'59	1°19'41
minimum elong	-8093 Jul 20 j 21:18	27°♉33'59	1°20'06
max. Earth dist.	-8093 Jul 20 j 10:58	27°♉31'00	11.24474 AU
morning rise	-8093 Aug 06 j 12:35	29°♉27'57	
	-8093 Aug 11 j 07:24	0°♊	
retrograde	-8093 Nov 12 j 12:07	6°♊08'13	
opposition	-8092 Jan 21 j 06:57	2°♊53'30	1°50'36
min. Earth dist.	-8092 Jan 21 j 17:50	2°♊51'31	9.27116 AU
	-8092 Mar 09 j 08:49	30°℞♉	
direct	-8092 Apr 02 j 09:14	29°♉33'32	
	-8092 Apr 26 j 05:41	0°♊	
evening set	-8092 Jul 14 j 04:24	6°♊29'03	
conjunction	-8092 Jul 30 j 19:57	8°♊22'46	1°41'41
minimum elong	-8092 Jul 30 j 19:54	8°♊22'45	1°42'10
max. Earth dist.	-8092 Jul 30 j 05:06	8°♊18'31	11.28840 AU
morning rise	-8092 Aug 16 j 08:03	10°♊15'33	
retrograde	-8092 Nov 22 j 15:26	16°♊55'40	
opposition	-8091 Jan 31 j 18:39	13°♊41'08	2°15'11
min. Earth dist.	-8091 Feb 01 j 08:26	13°♊38'38	9.30017 AU
direct	-8091 Apr 13 j 21:44	10°♊22'00	
evening set	-8091 Jul 25 j 03:44	17°♊15'16	
conjunction	-8091 Aug 10 j 16:00	19°♊08'06	1°59'58
minimum elong	-8091 Aug 10 j 15:58	19°♊08'05	2°00'29
max. Earth dist.	-8091 Aug 09 j 22:38	19°♊03'07	11.30136 AU
morning rise	-8091 Aug 27 j 01:26	21°♊00'13	
retrograde	-8091 Dec 03 j 21:06	27°♊42'12	
opposition	-8090 Feb 12 j 07:13	24°♊27'28	2°34'59
min. Earth dist.	-8090 Feb 12 j 23:08	24°♊24'35	9.29791 AU
direct	-8090 Apr 25 j 07:29	21°♊08'57	
evening set	-8090 Aug 05 j 01:30	28°♊01'29	
conjunction	-8090 Aug 21 j 11:09	29°♊53'59	2°14'01
minimum elong	-8090 Aug 21 j 11:07	29°♊53'58	2°14'33
max. Earth dist.	-8090 Aug 20 j 15:37	29°♊48'21	11.28299 AU
	-8090 Aug 22 j 08:04	0°♋	
morning rise	-8090 Sep 06 j 18:39	1°♋45'59	
retrograde	-8090 Dec 15 j 06:39	8°♋31'45	
opposition	-8089 Feb 23 j 22:03	5°♋16'29	2°49'26
min. Earth dist.	-8089 Feb 24 j 16:22	5°♋13'09	9.26424 AU
direct	-8089 May 06 j 16:07	1°♋58'19	
evening set	-8089 Aug 15 j 23:34	8°♋51'39	
max. Earth dist.	-8089 Aug 31 j 08:49	10°♋37'50	11.23364 AU
conjunction	-8089 Sep 01 j 07:21	10°♋44'21	2°23'21
minimum elong	-8089 Sep 01 j 07:19	10°♋44'21	2°23'53
morning rise	-8089 Sep 17 j 14:05	12°♋36'52	
retrograde	-8089 Dec 26 j 19:18	19°♋28'16	
opposition	-8088 Mar 06 j 16:12	16°♋12'05	2°57'59
min. Earth dist.	-8088 Mar 07 j 12:59	16°♋08'18	9.19975 AU
direct	-8088 May 17 j 01:14	12°♋53'59	
evening set	-8088 Aug 25 j 23:25	19°♋49'42	
max. Earth dist.	-8088 Sep 10 j 06:15	21°♋36'10	11.15419 AU
conjunction	-8088 Sep 11 j 06:27	21°♋43'15	2°27'34
minimum elong	-8088 Sep 11 j 06:27	21°♋43'15	2°28'05
morning rise	-8088 Sep 27 j 13:31	23°♋36'53	
	-8088 Dec 10 j 10:31	0°♌	
retrograde	-8087 Jan 06 j 16:27	0°♌35'47	
	-8087 Feb 03 j 09:02	30°℞♋	
opposition	-8087 Mar 18 j 15:03	27°♋18'23	3°00'08
min. Earth dist.	-8087 Mar 19 j 12:40	27°♋14'25	9.10563 AU
direct	-8087 May 28 j 14:45	24°♋00'07	
	-8087 Aug 28 j 09:21	0°♌	
evening set	-8087 Sep 06 j 02:56	0°♌59'46	
max. Earth dist.	-8087 Sep 21 j 10:22	2°♌47'41	11.04653 AU
conjunction	-8087 Sep 22 j 10:29	2°♌54'49	2°26'16
minimum elong	-8087 Sep 22 j 10:30	2°♌54'50	2°26'45
morning rise	-8087 Oct 08 j 18:48	4°♌50'13	
retrograde	-8086 Jan 18 j 21:25	11°♌58'24	
opposition	-8086 Mar 30 j 20:01	8°♌39'29	2°55'26
min. Earth dist.	-8086 Mar 31 j 17:02	8°♌35'36	8.98485 AU
direct	-8086 Jun 09 j 06:02	5°♌20'52	
evening set	-8086 Sep 17 j 12:12	12°♌25'57	
conjunction	-8086 Oct 03 j 21:22	14°♌23'07	2°19'08
minimum elong	-8086 Oct 03 j 21:24	14°♌23'08	2°19'35
max. Earth dist.	-8086 Oct 02 j 21:43	14°♌16'01	10.91468 AU
	-8086 Oct 09 j 00:13	15°♌	
morning rise	-8086 Oct 20 j 08:15	16°♌20'56	
retrograde	-8085 Jan 31 j 12:29	23°♌39'59	
opposition	-8085 Apr 12 j 08:19	20°♌19'17	2°43'29
min. Earth dist.	-8085 Apr 13 j 04:15	20°♌15'34	8.84230 AU
direct	-8085 Jun 21 j 03:15	17°♌00'03	
evening set	-8085 Sep 29 j 04:59	24°♌11'57	
conjunction	-8085 Oct 15 j 16:50	26°♌11'50	2°06'02
minimum elong	-8085 Oct 15 j 16:53	26°♌11'51	2°06'23
max. Earth dist.	-8085 Oct 14 j 17:50	26°♌04'49	10.76405 AU
morning rise	-8085 Nov 01 j 07:38	28°♌12'42	
	-8085 Nov 16 j 16:36	0°♍	
retrograde	-8084 Feb 13 j 14:14	5°♍43'51	
opposition	-8084 Apr 24 j 04:50	2°♍21'13	2°24'05
min. Earth dist.	-8084 Apr 24 j 23:25	2°♍17'42	8.68381 AU
	-8084 May 28 j 16:12	30°℞♌	
direct	-8084 Jul 02 j 06:42	29°♌01'07	
	-8084 Aug 05 j 01:55	0°♍	
evening set	-8084 Oct 10 j 07:15	6°♍21'09	

Attention, astronomical year style is used: The year -8084 in astronomical counting style is the year 8085 BCE in historical counting style.

conjunction	-8084 Oct 26 j 22:55	8°♑24'16	1°46'55	
minimum elong	-8084 Oct 26 j 22:58	8°♑24'17	1°47'11	
max. Earth dist.	-8084 Oct 26 j 02:18	8°♑17'52	10.60078 AU	
morning rise	-8084 Nov 12 j 18:32	10°♑28'40		
retrograde	-8083 Feb 26 j 00:45	18°♑12'56		
opposition	-8083 May 07 j 10:04	14°♑48'14	1°57'17	
min. Earth dist.	-8083 May 08 j 02:03	14°♑45'10	8.51622 AU	
direct	-8083 Jul 14 j 19:19	11°♑27'04		
evening set	-8083 Oct 22 j 20:39	18°♑56'23		
conjunction	-8083 Nov 08 j 17:09	21°♑03'11	1°22'07	
minimum elong	-8083 Nov 08 j 17:13	21°♑03'12	1°22'15	
max. Earth dist.	-8083 Nov 08 j 00:56	20°♑58'03	10.43212 AU	
morning rise	-8083 Nov 25 j 18:16	23°♑11'30		
	-8082 Feb 02 j 18:38	0°♎		
retrograde	-8082 Mar 12 j 00:12	1°♎09'26		
	-8082 Apr 18 j 21:21	30°℞♑		
opposition	-8082 May 21 j 00:38	27°♑42'37	1°23'36	
min. Earth dist.	-8082 May 21 j 12:30	27°♑40'18	8.34743 AU	
direct	-8082 Jul 27 j 18:01	24°♑20'17		
	-8082 Oct 19 j 14:17	0°♎		
evening set	-8082 Nov 04 j 22:56	1°♎59'46		
conjunction	-8082 Nov 22 j 00:53	4°♎10'29	0°52'17	
minimum elong	-8082 Nov 22 j 00:56	4°♎10'30	0°52'18	
max. Earth dist.	-8082 Nov 21 j 13:54	4°♎06'58	10.26621 AU	
morning rise	-8082 Dec 09 j 07:56	6°♎22'56		
retrograde	-8081 Mar 26 j 11:52	14°♎34'23		
opposition	-8081 Jun 04 j 00:22	11°♎05'36	0°44'04	
min. Earth dist.	-8081 Jun 04 j 07:05	11°♎04'16	8.18600 AU	
direct	-8081 Aug 10 j 01:06	7°♎41'59		
evening set	-8081 Nov 18 j 15:32	15°♎32'15		
conjunction	-8081 Dec 05 j 23:03	17°♎46'53	0°18'39	
minimum elong	-8081 Dec 05 j 23:04	17°♎46'53	0°18'32	
max. Earth dist.	-8081 Dec 05 j 17:25	17°♎45'03	10.11186 AU	
morning rise	-8081 Dec 23 j 12:04	20°♎03'23		
retrograde	-8080 Apr 09 j 10:02	28°♎27'22		
opposition	-8080 Jun 17 j 08:31	24°♎56'51	0°00'30	
min. Earth dist.	-8080 Jun 17 j 10:09	24°♎56'31	8.04101 AU	
desc. node	-8080 Jun 21 j 11:50	24°♎36'48		
direct	-8080 Aug 22 j 17:38	21°♎31'54		
evening set	-8080 Dec 01 j 22:44	29°♎33'04		
	-8080 Dec 05 j 09:37	0°♏		
conjunction	-8080 Dec 19 j 11:35	1°♏51'19	-0°17'09	
minimum elong	-8080 Dec 19 j 11:34	1°♏51'19	0°17'24	
max. Earth dist.	-8080 Dec 19 j 11:45	1°♏51'23	9.97820 AU	
morning rise	-8079 Jan 06 j 06:06	4°♏11'28		
retrograde	-8079 Apr 24 j 15:29	12°♏46'03		
opposition	-8079 Jul 02 j 00:13	9°♏14'11	-0°44'35	
min. Earth dist.	-8079 Jul 01 j 20:51	9°♏14'53	7.92150 AU	
direct	-8079 Sep 05 j 22:21	5°♏47'54		
evening set	-8079 Dec 16 j 19:48	13°♏59'18		
	-8079 Dec 24 j 11:52	15°♏		
conjunction	-8078 Jan 03 j 13:26	16°♏20'36	-0°52'44	
minimum elong	-8078 Jan 03 j 13:23	16°♏20'35	0°53'05	
max. Earth dist.	-8078 Jan 03 j 19:47	16°♏22'43	9.87395 AU	
morning rise	-8078 Jan 21 j 12:30	18°♏43'40		
retrograde	-8078 May 10 j 01:33	27°♏25'53		
opposition	-8078 Jul 16 j 21:21	23°♏53'08	-1°27'58	
min. Earth dist.	-8078 Jul 16 j 13:26	23°♏54'47	7.83555 AU	
direct	-8078 Sep 20 j 12:26	20°♏25'34		
evening set	-8077 Jan 01 j 05:16	28°♏45'43		
	-8077 Jan 10 j 12:49	0°♐		

conjunction	-8077 Jan 19 j 02:49	1°♐09'12	-1°25'32	
minimum elong	-8077 Jan 19 j 02:44	1°♐09'11	1°25'59	
max. Earth dist.	-8077 Jan 19 j 15:20	1°♐13'25	9.80644 AU	
morning rise	-8077 Feb 06 j 05:05	3°♐34'11		
retrograde	-8077 May 25 j 13:23	12°♐20'04		
opposition	-8077 Jul 31 j 21:17	8°♐46'58	-2°06'11	
min. Earth dist.	-8077 Jul 31 j 09:15	8°♐49'29	7.78932 AU	
direct	-8077 Oct 05 j 09:54	5°♐18'17		
evening set	-8076 Jan 16 j 23:40	13°♐44'47		
conjunction	-8076 Feb 04 j 00:01	16°♐09'23	-1°52'58	
minimum elong	-8076 Feb 03 j 23:57	16°♐09'22	1°53'28	
max. Earth dist.	-8076 Feb 04 j 18:20	16°♐15'33	9.78081 AU	
morning rise	-8076 Feb 22 j 03:58	18°♐35'06		
retrograde	-8076 Jun 08 j 23:14	27°♐20'09		
opposition	-8076 Aug 14 j 21:22	23°♐47'15	-2°36'02	
min. Earth dist.	-8076 Aug 14 j 05:34	23°♐50'36	7.78632 AU	
direct	-8076 Oct 19 j 12:10	20°♐17'42		
evening set	-8075 Jan 31 j 22:20	28°♐47'19		
	-8075 Feb 10 j 01:39	0°♑		
conjunction	-8075 Feb 19 j 00:23	1°♑11'56	-2°12'46	
minimum elong	-8075 Feb 19 j 00:19	1°♑11'55	2°13'19	
max. Earth dist.	-8075 Feb 19 j 23:30	1°♑19'41	9.79926 AU	
morning rise	-8075 Mar 09 j 04:38	3°♑37'10		
retrograde	-8075 Jun 24 j 03:34	12°♑16'47		
opposition	-8075 Aug 29 j 18:33	8°♑44'39	-2°55'06	
min. Earth dist.	-8075 Aug 28 j 23:47	8°♑48'37	7.82689 AU	
direct	-8075 Nov 03 j 16:26	5°♑14'32		
evening set	-8074 Feb 16 j 20:39	13°♑43'39		
conjunction	-8074 Mar 06 j 23:24	16°♑07'13	-2°23'32	
minimum elong	-8074 Mar 06 j 23:23	16°♑07'13	2°24'04	
max. Earth dist.	-8074 Mar 08 j 01:43	16°♑15'58	9.86059 AU	
morning rise	-8074 Mar 25 j 02:50	18°♑30'55		
retrograde	-8074 Jul 08 j 23:36	27°♑00'54		
opposition	-8074 Sep 13 j 10:00	23°♑30'04	-3°02'12	
min. Earth dist.	-8074 Sep 12 j 13:32	23°♑34'22	7.90803 AU	
direct	-8074 Nov 18 j 19:33	19°♑59'46		
evening set	-8073 Mar 04 j 13:42	28°♑24'45		
	-8073 Mar 16 j 18:43	0°♒		
conjunction	-8073 Mar 22 j 16:15	0°♒46'25	-2°24'47	
minimum elong	-8073 Mar 22 j 16:16	0°♒46'26	2°25'17	
max. Earth dist.	-8073 Mar 23 j 19:56	0°♒55'31	9.96030 AU	
morning rise	-8073 Apr 09 j 17:57	3°♒07'43		
retrograde	-8073 Jul 23 j 08:24	11°♒24'54		
opposition	-8073 Sep 27 j 17:52	7°♒55'47	-2°57'29	
min. Earth dist.	-8073 Sep 26 j 21:07	8°♒00'06	8.02389 AU	
direct	-8073 Dec 03 j 18:12	4°♒25'42		
evening set	-8072 Mar 18 j 21:12	12°♒43'24		
conjunction	-8072 Apr 05 j 22:44	15°♒02'29	-2°17'02	
minimum elong	-8072 Apr 05 j 22:46	15°♒02'30	2°17'28	
	-8072 Apr 05 j 15:02	15°♒		
max. Earth dist.	-8072 Apr 07 j 02:00	15°♒11'18	10.09128 AU	
morning rise	-8072 Apr 23 j 22:01	17°♒20'47		
retrograde	-8072 Aug 05 j 04:47	25°♒23'17		
opposition	-8072 Oct 10 j 16:37	21°♒56'09	-2°42'12	
min. Earth dist.	-8072 Oct 09 j 21:13	22°♒00'09	8.16663 AU	
direct	-8072 Dec 17 j 09:46	18°♒26'38		
evening set	-8071 Apr 02 j 16:37	26°♒34'44		
conjunction	-8071 Apr 20 j 16:22	28°♒50'48	-2°01'30	
minimum elong	-8071 Apr 20 j 16:26	28°♒50'49	2°01'50	
max. Earth dist.	-8071 Apr 21 j 17:05	28°♒58'38	10.24484 AU	
	-8071 Apr 29 j 18:54	0°♓		

Attention, astronomical year style is used: The year -8071 in astronomical counting style is the year 8072 BCE in historical counting style.

morning rise	-8071 May 08 j 12:49	1°♓05'44	
retrograde	-8071 Aug 18 j 12:45	8°♓52'50	
opposition	-8071 Oct 24 j 05:23	5°♓27'51	-2°18'20
min. Earth dist.	-8071 Oct 23 j 12:30	5°♓31'16	8.32723 AU
direct	-8071 Dec 31 j 16:13	1°♓59'12	
evening set	-8070 Apr 16 j 22:23	9°♓56'20	
conjunction	-8070 May 04 j 19:41	12°♓09'07	-1°39'50
minimum elong	-8070 May 04 j 19:45	12°♓09'08	1°40'03
max. Earth dist.	-8070 May 05 j 16:06	12°♓15'28	10.41147 AU
morning rise	-8070 May 22 j 12:54	14°♓20'32	
retrograde	-8070 Aug 31 j 07:56	21°♓52'40	
opposition	-8070 Nov 06 j 08:22	18°♓29'50	-1°48'09
min. Earth dist.	-8070 Nov 05 j 18:29	18°♓32'35	8.49618 AU
direct	-8069 Jan 14 j 14:02	15°♓02'16	
evening set	-8069 Apr 30 j 14:04	22°♓47'55	
conjunction	-8069 May 18 j 08:16	24°♓57'21	-1°13'50
minimum elong	-8069 May 18 j 08:19	24°♓57'22	1°13'56
max. Earth dist.	-8069 May 18 j 23:39	25°♓02'03	10.58160 AU
morning rise	-8069 Jun 04 j 21:47	27°♓05'16	
	-8069 Jun 30 j 13:48	0°♈	
retrograde	-8069 Sep 12 j 15:15	4°♈23'43	
opposition	-8069 Nov 19 j 01:56	1°♈02'52	-1°13'56
min. Earth dist.	-8069 Nov 18 j 15:02	1°♈05'00	8.66426 AU
	-8069 Dec 02 j 16:34	30°℞♓	
direct	-8068 Jan 28 j 01:55	27°♓36'35	
	-8068 Mar 23 j 06:46	0°♈	
evening set	-8068 May 12 j 16:08	5°♈11'01	
conjunction	-8068 May 30 j 06:48	7°♈17'09	-0°45'11
minimum elong	-8068 May 30 j 06:50	7°♈17'10	0°45'11
max. Earth dist.	-8068 May 30 j 17:17	7°♈20'18	10.74627 AU
morning rise	-8068 Jun 16 j 16:16	9°♈21'44	
retrograde	-8068 Sep 23 j 15:20	16°♈28'18	
opposition	-8068 Nov 30 j 11:01	13°♈09'15	-0°37'39
min. Earth dist.	-8068 Nov 30 j 03:54	13°♈10'37	8.82294 AU
direct	-8067 Feb 09 j 01:59	9°♈44'18	
evening set	-8067 May 25 j 05:48	17°♈08'25	
conjunction	-8067 Jun 11 j 16:33	19°♈11'32	-0°15'26
minimum elong	-8067 Jun 11 j 16:34	19°♈11'32	0°15'19
behind sun begin	-8067 Jun 11 j 14:27	19°♈10'55	
behind sun end	-8067 Jun 11 j 18:40	19°♈12'09	
max. Earth dist.	-8067 Jun 11 j 22:11	19°♈13'11	10.89740 AU
morning rise	-8067 Jun 28 j 21:44	21°♈13'02	
retrograde	-8067 Oct 05 j 07:02	28°♈09'53	
opposition	-8067 Dec 12 j 13:07	24°♈52'25	-0°01'02
min. Earth dist.	-8067 Dec 12 j 10:47	24°♈52'52	8.96502 AU
asc. node	-8067 Dec 23 j 04:03	24°♈04'32	
direct	-8066 Feb 21 j 15:31	21°♈28'48	
evening set	-8066 Jun 06 j 08:53	28°♈43'58	
	-8066 Jun 17 j 07:37	0°♉	
conjunction	-8066 Jun 23 j 15:12	0°♉44'18	0°14'15
minimum elong	-8066 Jun 23 j 15:12	0°♉44'18	0°14'28
behind sun begin	-8066 Jun 23 j 12:01	0°♉43'23	
behind sun end	-8066 Jun 23 j 18:22	0°♉45'13	
max. Earth dist.	-8066 Jun 23 j 15:10	0°♉44'18	11.02893 AU
morning rise	-8066 Jul 10 j 16:07	2°♉43'08	
retrograde	-8066 Oct 16 j 16:21	9°♉32'32	
opposition	-8066 Dec 24 j 09:35	6°♉16'21	0°34'34
min. Earth dist.	-8066 Dec 24 j 12:09	6°♉15'52	9.08562 AU
direct	-8065 Mar 05 j 23:09	2°♉53'57	
evening set	-8065 Jun 18 j 02:51	10°♉01'38	
conjunction	-8065 Jul 05 j 04:37	11°♉59'32	0°42'38
minimum elong	-8065 Jul 05 j 04:35	11°♉59'32	0°42'56
max. Earth dist.	-8065 Jul 04 j 22:43	11°♉57'50	11.13700 AU
morning rise	-8065 Jul 22 j 01:30	13°♉56'04	
	-8065 Jul 31 j 14:35	15°♉	
retrograde	-8065 Oct 27 j 21:49	20°♉40'14	
opposition	-8064 Jan 05 j 01:51	17°♉24'56	1°08'00
min. Earth dist.	-8064 Jan 05 j 08:04	17°♉23'47	9.18131 AU
	-8064 Feb 10 j 15:23	15°℞♉	
direct	-8064 Mar 16 j 22:50	14°♉03'40	
	-8064 Apr 20 j 20:42	15°♉	
evening set	-8064 Jun 28 j 13:10	21°♉05'18	
conjunction	-8064 Jul 15 j 10:39	23°♉01'11	1°08'55
minimum elong	-8064 Jul 15 j 10:36	23°♉01'11	1°09'18
max. Earth dist.	-8064 Jul 15 j 00:38	22°♉58'18	11.21859 AU
morning rise	-8064 Aug 01 j 03:39	24°♉55'52	
	-8064 Sep 23 j 07:03	0°♊	
retrograde	-8064 Nov 07 j 01:27	1°♊36'57	
	-8064 Dec 23 j 08:15	30°℞♉	
opposition	-8063 Jan 15 j 15:12	28°♉22'10	1°38'21
min. Earth dist.	-8063 Jan 16 j 00:35	28°♉20'26	9.24923 AU
direct	-8063 Mar 28 j 17:35	25°♉01'50	
	-8063 Jun 21 j 10:25	0°♊	
evening set	-8063 Jul 09 j 17:50	1°♊58'58	
conjunction	-8063 Jul 26 j 11:19	3°♊53'18	1°32'23
minimum elong	-8063 Jul 26 j 11:16	3°♊53'17	1°32'50
max. Earth dist.	-8063 Jul 25 j 22:02	3°♊49'29	11.27127 AU
morning rise	-8063 Aug 12 j 00:41	5°♊46'33	
retrograde	-8063 Nov 18 j 05:03	12°♊26'36	
opposition	-8062 Jan 27 j 03:10	9°♊11'59	2°04'52
min. Earth dist.	-8062 Jan 27 j 16:08	9°♊09'37	9.28747 AU
direct	-8062 Apr 09 j 06:24	5°♊52'24	
evening set	-8062 Jul 20 j 18:31	12°♊46'36	
conjunction	-8062 Aug 06 j 08:16	14°♊39'50	1°52'22
minimum elong	-8062 Aug 06 j 08:13	14°♊39'49	1°52'53
max. Earth dist.	-8062 Aug 05 j 15:05	14°♊34'54	11.29374 AU
morning rise	-8062 Aug 22 j 18:45	16°♊32'14	
retrograde	-8062 Nov 29 j 07:38	23°♊13'15	
opposition	-8061 Feb 07 j 15:22	19°♊58'26	2°26'53
min. Earth dist.	-8061 Feb 08 j 07:55	19°♊55'25	9.29515 AU
direct	-8061 Apr 20 j 16:23	16°♊39'21	
evening set	-8061 Jul 31 j 16:39	23°♊32'12	
max. Earth dist.	-8061 Aug 16 j 06:50	25°♊18'57	11.28558 AU
conjunction	-8061 Aug 17 j 03:18	25°♊24'50	2°08'22
minimum elong	-8061 Aug 17 j 03:16	25°♊24'49	2°08'54
morning rise	-8061 Sep 02 j 11:45	27°♊16'54	
	-8061 Sep 28 j 00:12	0°♋	
retrograde	-8061 Dec 10 j 14:45	4°♋00'54	
opposition	-8060 Feb 19 j 04:50	0°♋45'31	2°43'48
min. Earth dist.	-8060 Feb 19 j 23:29	0°♋42'08	9.27206 AU
	-8060 Feb 29 j 17:36	30°℞♊	
direct	-8060 May 01 j 03:09	27°♊26'45	
	-8060 Jun 28 j 11:34	0°♋	
evening set	-8060 Aug 10 j 14:08	4°♋19'45	
conjunction	-8060 Aug 26 j 22:44	6°♋12'24	2°19'52
minimum elong	-8060 Aug 26 j 22:42	6°♋12'23	2°20'23
max. Earth dist.	-8060 Aug 26 j 00:52	6°♋06'04	11.24703 AU
morning rise	-8060 Sep 12 j 05:48	8°♋04'42	
retrograde	-8060 Dec 21 j 01:36	14°♋53'32	
opposition	-8059 Mar 01 j 20:53	11°♋37'18	2°55'03
min. Earth dist.	-8059 Mar 02 j 16:28	11°♋33'44	9.21881 AU
direct	-8059 May 12 j 11:51	8°♋18'39	
evening set	-8059 Aug 21 j 12:46	15°♋13'24	

Attention, astronomical year style is used: The year -8059 in astronomical counting style is the year 8060 BCE in historical counting style.

conjunction	-8059 Sep 06 j 20:12	17°♋06'36	2°26'25
minimum elong	-8059 Sep 06 j 20:12	17°♋06'36	2°26'56
max. Earth dist.	-8059 Sep 05 j 21:19	16°♋59'56	11.17919 AU
morning rise	-8059 Sep 23 j 02:54	18°♋59'45	
retrograde	-8058 Jan 01 j 20:04	25°♋55'16	
opposition	-8058 Mar 13 j 17:23	22°♋37'55	3°00'08
min. Earth dist.	-8058 Mar 14 j 13:59	22°♋34'08	9.13701 AU
direct	-8058 May 23 j 22:33	19°♋19'13	
evening set	-8058 Sep 01 j 14:15	26°♋17'09	
conjunction	-8058 Sep 17 j 21:26	28°♋11'33	2°27'37
minimum elong	-8058 Sep 17 j 21:26	28°♋11'33	2°28'07
max. Earth dist.	-8058 Sep 16 j 21:10	28°♋04'24	11.08424 AU
	-8058 Oct 03 j 07:41	0°♌	
morning rise	-8058 Oct 04 j 05:05	0°♌06'11	
retrograde	-8057 Jan 13 j 19:44	7°♌10'08	
opposition	-8057 Mar 25 j 19:28	3°♌51'24	2°58'33
min. Earth dist.	-8057 Mar 26 j 16:46	3°♌47'29	9.02924 AU
direct	-8057 Jun 04 j 11:05	0°♌32'27	
evening set	-8057 Sep 12 j 20:32	7°♌35'06	
max. Earth dist.	-8057 Sep 28 j 04:32	9°♌24'04	10.96518 AU
conjunction	-8057 Sep 29 j 04:45	9°♌31'18	2°23'08
minimum elong	-8057 Sep 29 j 04:47	9°♌31'18	2°23'36
morning rise	-8057 Oct 15 j 14:32	11°♌28'02	
	-8057 Nov 17 j 04:02	15°♌	
retrograde	-8056 Jan 26 j 05:00	18°♌42'04	
opposition	-8056 Apr 06 j 04:01	15°♌21'44	2°49'52
min. Earth dist.	-8056 Apr 07 j 00:46	15°♌17'52	8.89902 AU
	-8056 Apr 11 j 01:01	15℞♌	
direct	-8056 Jun 15 j 06:50	12°♌02'20	
	-8056 Aug 15 j 06:33	15°♌	
evening set	-8056 Sep 23 j 09:24	19°♌11'07	
conjunction	-8056 Oct 09 j 19:59	21°♌09'46	2°12'43
minimum elong	-8056 Oct 09 j 20:02	21°♌09'47	2°13'07
max. Earth dist.	-8056 Oct 08 j 21:48	21°♌03'02	10.82590 AU
morning rise	-8056 Oct 26 j 08:54	23°♌09'13	
	-8055 Jan 11 j 10:49	0°♍	
retrograde	-8055 Feb 07 j 02:02	0°♍34'46	
	-8055 Mar 06 j 00:54	30℞♌	
opposition	-8055 Apr 18 j 20:25	27°♌12'40	2°33'47
min. Earth dist.	-8055 Apr 19 j 14:50	27°♌09'12	8.75087 AU
direct	-8055 Jun 27 j 07:36	23°♌52'41	
	-8055 Sep 25 j 14:15	0°♍	
evening set	-8055 Oct 05 j 06:51	1°♍08'55	
conjunction	-8055 Oct 21 j 20:48	3°♍10'33	1°56'15
minimum elong	-8055 Oct 21 j 20:52	3°♍10'34	1°56'34
max. Earth dist.	-8055 Oct 21 j 01:00	3°♍04'27	10.67156 AU
morning rise	-8055 Nov 07 j 13:58	5°♍13'18	
retrograde	-8054 Feb 20 j 09:26	12°♍51'31	
opposition	-8054 May 01 j 21:37	9°♍27'34	2°10'14
min. Earth dist.	-8054 May 02 j 13:06	9°♍24'37	8.59071 AU
direct	-8054 Jul 09 j 14:39	6°♍06'50	
evening set	-8054 Oct 17 j 15:00	13°♍31'46	
conjunction	-8054 Nov 03 j 09:13	15°♍36'51	1°33'55
minimum elong	-8054 Nov 03 j 09:16	15°♍36'52	1°34'07
max. Earth dist.	-8054 Nov 02 j 16:02	15°♍31'28	10.50867 AU
morning rise	-8054 Nov 20 j 07:41	17°♍43'21	
retrograde	-8053 Mar 06 j 04:22	25°♍34'59	
opposition	-8053 May 15 j 08:00	22°♍09'10	1°39'29
min. Earth dist.	-8053 May 15 j 20:19	22°♍06'46	8.42574 AU
direct	-8053 Jul 22 j 07:39	18°♍47'29	
evening set	-8053 Oct 30 j 11:25	26°♍22'11	

conjunction	-8053 Nov 16 j 10:41	28°♍31'04	1°06'11
minimum elong	-8053 Nov 16 j 10:44	28°♍31'05	1°06'16
max. Earth dist.	-8053 Nov 15 j 21:13	28°♍26'46	10.34480 AU
	-8053 Nov 28 j 02:38	0°♎	
morning rise	-8053 Dec 03 j 15:06	0°♎41'36	
retrograde	-8052 Mar 19 j 10:41	8°♎46'48	
opposition	-8052 May 28 j 03:45	5°♎19'10	1°02'21
min. Earth dist.	-8052 May 28 j 12:29	5°♎17'27	8.26408 AU
direct	-8052 Aug 03 j 10:22	1°♎56'27	
evening set	-8052 Nov 11 j 21:29	9°♎41'39	
conjunction	-8052 Nov 29 j 02:17	11°♎54'24	0°34'03
minimum elong	-8052 Nov 29 j 02:18	11°♎54'25	0°33'59
max. Earth dist.	-8052 Nov 28 j 18:20	11°♎51'50	10.18827 AU
morning rise	-8052 Dec 16 j 12:40	14°♎09'01	
retrograde	-8051 Apr 03 j 03:19	22°♎27'13	
opposition	-8051 Jun 11 j 08:24	18°♎57'55	0°20'17
min. Earth dist.	-8051 Jun 11 j 12:26	18°♎57'07	8.11459 AU
direct	-8051 Aug 16 j 23:59	15°♎34'03	
evening set	-8051 Nov 25 j 22:03	23°♎30'01	
desc. node	-8051 Dec 02 j 02:41	24°♎18'07	
conjunction	-8051 Dec 13 j 08:27	25°♎46'32	-0°01'06
minimum elong	-8051 Dec 13 j 08:26	25°♎46'32	0°01'17
behind sun begin	-8051 Dec 13 j 01:13	25°♎44'11	
behind sun end	-8051 Dec 13 j 15:40	25°♎48'53	
max. Earth dist.	-8051 Dec 13 j 06:57	25°♎46'06	10.04807 AU
morning rise	-8051 Dec 31 j 00:29	28°♎04'56	
	-8050 Jan 15 j 07:04	0°♏	
retrograde	-8050 Apr 18 j 04:44	6°♏34'37	
opposition	-8050 Jun 25 j 20:57	3°♏03'54	-0°24'28
min. Earth dist.	-8050 Jun 25 j 19:39	3°♏04'09	7.98619 AU
	-8050 Aug 11 j 15:17	30℞♎	
direct	-8050 Aug 31 j 00:36	29°♎38'48	
	-8050 Sep 19 j 04:04	0°♏	
evening set	-8050 Dec 10 j 13:02	7°♏45'10	
conjunction	-8050 Dec 28 j 04:37	10°♏05'00	-0°37'01
minimum elong	-8050 Dec 28 j 04:35	10°♏04'59	0°37'20
max. Earth dist.	-8050 Dec 28 j 09:42	10°♏06'41	9.93271 AU
morning rise	-8049 Jan 15 j 01:33	12°♏26'38	
	-8049 Feb 04 j 09:39	15°♏	
retrograde	-8049 May 03 j 12:52	21°♏05'13	
opposition	-8049 Jul 10 j 15:43	17°♏33'25	-1°08'58
min. Earth dist.	-8049 Jul 10 j 09:16	17°♏34'45	7.88664 AU
	-8049 Aug 14 j 15:29	15℞♏	
direct	-8049 Sep 14 j 09:49	14°♏07'04	
	-8049 Oct 14 j 17:34	15°♏	
evening set	-8049 Dec 25 j 17:10	22°♏22'48	
conjunction	-8048 Jan 12 j 13:02	24°♏45'11	-1°11'22
minimum elong	-8048 Jan 12 j 12:58	24°♏45'10	1°11'47
max. Earth dist.	-8048 Jan 13 j 00:07	24°♏48'54	9.84916 AU
morning rise	-8048 Jan 30 j 13:40	27°♏09'10	
	-8048 Feb 22 j 03:41	0°♐	
retrograde	-8048 May 18 j 00:55	5°♐53'15	
opposition	-8048 Jul 24 j 14:23	2°♐20'51	-1°49'52
min. Earth dist.	-8048 Jul 24 j 03:31	2°♐23'07	7.82181 AU
	-8048 Aug 24 j 14:01	30℞♏	
direct	-8048 Sep 28 j 02:50	28°♏53'19	
	-8048 Nov 01 j 05:20	0°♐	
evening set	-8047 Jan 09 j 07:45	7°♐16'37	
conjunction	-8047 Jan 27 j 06:51	9°♐40'38	-1°41'29
minimum elong	-8047 Jan 27 j 06:47	9°♐40'37	1°41'58
max. Earth dist.	-8047 Jan 27 j 23:03	9°♐46'05	9.80263 AU
morning rise	-8047 Feb 14 j 09:53	12°♐05'56	

Attention, astronomical year style is used: The year -8047 in astronomical counting style is the year 8048 BCE in historical counting style.

retrograde	-8047 Jun 02 j 13:16	20°♐51'30	
opposition	-8047 Aug 08 j 14:41	17°♐19'03	-2°23'48
min. Earth dist.	-8047 Aug 08 j 00:22	17°♐22'04	7.79615 AU
direct	-8047 Oct 13 j 02:14	13°♐50'29	
evening set	-8046 Jan 25 j 05:02	22°♐18'44	
conjunction	-8046 Feb 12 j 06:20	24°♐43'20	-2°04'55
minimum elong	-8046 Feb 12 j 06:16	24°♐43'19	2°05'27
max. Earth dist.	-8046 Feb 13 j 02:50	24°♐50'13	9.79724 AU
morning rise	-8046 Mar 02 j 10:25	27°♐08'48	
	-8046 Mar 25 j 00:13	0°♑	
retrograde	-8046 Jun 17 j 21:51	5°♑51'19	
opposition	-8046 Aug 23 j 13:41	2°♑19'20	-2°47'56
min. Earth dist.	-8046 Aug 22 j 20:54	2°♑22'52	7.81267 AU
	-8046 Sep 22 j 19:43	30°℞♐	
direct	-8046 Oct 28 j 06:02	28°♐49'57	
	-8046 Dec 02 j 11:22	0°♑	
evening set	-8045 Feb 10 j 04:33	7°♑19'43	
conjunction	-8045 Feb 28 j 06:56	9°♑43'50	-2°19'51
minimum elong	-8045 Feb 28 j 06:54	9°♑43'49	2°20'24
max. Earth dist.	-8045 Mar 01 j 06:32	9°♑51'43	9.83467 AU
morning rise	-8045 Mar 18 j 10:48	12°♑08'19	
retrograde	-8045 Jul 02 j 22:43	20°♑43'15	
opposition	-8045 Sep 07 j 08:23	17°♑12'13	-3°00'29
min. Earth dist.	-8045 Sep 06 j 14:04	17°♑16'04	7.87105 AU
direct	-8045 Nov 12 j 11:20	13°♑42'18	
evening set	-8044 Feb 26 j 00:54	22°♑09'50	
conjunction	-8044 Mar 15 j 03:28	24°♑32'28	-2°25'22
minimum elong	-8044 Mar 15 j 03:27	24°♑32'28	2°25'54
max. Earth dist.	-8044 Mar 16 j 04:42	24°♑40'48	9.91280 AU
morning rise	-8044 Apr 02 j 06:06	26°♑54'59	
	-8044 Apr 27 j 05:38	0°♒	
retrograde	-8044 Jul 16 j 11:51	5°♒18'36	
opposition	-8044 Sep 20 j 20:24	1°♒48'56	-3°00'59
min. Earth dist.	-8044 Sep 20 j 01:24	1°♒52'54	7.96732 AU
	-8044 Oct 13 j 18:03	30°℞♑	
direct	-8044 Nov 26 j 13:40	28°♑18'51	
	-8043 Jan 08 j 22:48	0°♒	
evening set	-8043 Mar 12 j 13:22	6°♒40'34	
conjunction	-8043 Mar 30 j 15:21	9°♒00'57	-2°21'32
minimum elong	-8043 Mar 30 j 15:23	9°♒00'58	2°22'00
max. Earth dist.	-8043 Mar 31 j 16:37	9°♒09'11	10.02603 AU
morning rise	-8043 Apr 17 j 16:01	11°♒20'46	
	-8043 May 18 j 04:11	15°♒	
retrograde	-8043 Jul 30 j 12:55	19°♒30'31	
opposition	-8043 Oct 04 j 23:43	16°♒02'30	-2°50'14
min. Earth dist.	-8043 Oct 04 j 04:47	16°♒06'25	8.09456 AU
	-8043 Oct 17 j 18:56	15°℞♒	
direct	-8043 Dec 11 j 09:40	12°♒32'37	
	-8042 Feb 03 j 00:18	15°♒	
evening set	-8042 Mar 27 j 14:53	20°♒45'44	
conjunction	-8042 Apr 14 j 15:35	23°♒03'20	-2°09'18
minimum elong	-8042 Apr 14 j 15:39	23°♒03'21	2°09'40
max. Earth dist.	-8042 Apr 15 j 15:32	23°♒11'00	10.16630 AU
morning rise	-8042 May 02 j 13:36	25°♒19'57	
	-8042 Jun 12 j 15:47	0°♓	
retrograde	-8042 Aug 13 j 02:25	3°♓14'30	
	-8042 Oct 16 j 08:05	30°℞♒	
opposition	-8042 Oct 18 j 17:13	29°♒48'21	-2°29'56
min. Earth dist.	-8042 Oct 17 j 23:20	29°♒52'00	8.24413 AU
direct	-8042 Dec 25 j 20:53	26°♒19'02	
	-8041 Mar 03 j 13:20	0°♓	
evening set	-8041 Apr 11 j 03:11	4°♓21'42	

conjunction	-8041 Apr 29 j 01:52	6°♓36'09	-1°50'08
minimum elong	-8041 Apr 29 j 01:56	6°♓36'10	1°50'24
max. Earth dist.	-8041 Apr 29 j 23:33	6°♓42'58	10.32435 AU
morning rise	-8041 May 16 j 20:41	8°♓49'19	
retrograde	-8041 Aug 26 j 04:29	16°♓28'37	
min. Earth dist.	-8041 Oct 31 j 09:19	13°♓07'33	8.40684 AU
opposition	-8041 Nov 01 j 00:52	13°♓04'26	-2°02'16
direct	-8040 Jan 08 j 22:17	9°♓35'58	
evening set	-8040 Apr 24 j 01:12	17°♓27'15	
conjunction	-8040 May 11 j 21:08	19°♓38'23	-1°25'50
minimum elong	-8040 May 11 j 21:12	19°♓38'24	1°25'59
max. Earth dist.	-8040 May 12 j 15:17	19°♓43'59	10.49087 AU
morning rise	-8040 May 29 j 12:21	21°♓48'03	
retrograde	-8040 Sep 06 j 17:17	29°♓13'00	
opposition	-8040 Nov 12 j 22:48	25°♓50'46	-1°29'33
min. Earth dist.	-8040 Nov 12 j 10:47	25°♓53'09	8.57376 AU
direct	-8039 Jan 21 j 14:22	22°♓23'23	
	-8039 May 06 j 22:28	0°♈	
evening set	-8039 May 07 j 09:29	0°♈03'16	
conjunction	-8039 May 25 j 02:00	2°♈11'04	-0°58'09
minimum elong	-8039 May 25 j 02:03	2°♈11'05	0°58'11
max. Earth dist.	-8039 May 25 j 15:13	2°♈15'04	10.65709 AU
morning rise	-8039 Jun 11 j 13:23	4°♈17'18	
retrograde	-8039 Sep 18 j 20:14	11°♈29'26	
opposition	-8039 Nov 25 j 11:38	8°♈09'04	-0°53'55
min. Earth dist.	-8039 Nov 25 j 03:38	8°♈10'37	8.73664 AU
direct	-8038 Feb 03 j 19:32	4°♈42'55	
evening set	-8038 May 20 j 04:50	12°♈12'00	
conjunction	-8038 Jun 06 j 17:22	14°♈16'37	-0°28'41
minimum elong	-8038 Jun 06 j 17:24	14°♈16'37	0°28'37
max. Earth dist.	-8038 Jun 07 j 00:46	14°♈18'49	10.81529 AU
morning rise	-8038 Jun 24 j 00:42	16°♈19'38	
retrograde	-8038 Sep 30 j 14:02	23°♈20'55	
opposition	-8038 Dec 07 j 16:47	20°♈02'12	-0°17'14
min. Earth dist.	-8038 Dec 07 j 12:10	20°♈03'05	8.88832 AU
direct	-8037 Feb 16 j 15:04	16°♈37'24	
evening set	-8037 Jun 01 j 12:20	23°♈56'43	
asc. node	-8037 Jun 03 j 19:17	24°♈12'34	
conjunction	-8037 Jun 18 j 20:39	25°♈58'21	0°01'13
minimum elong	-8037 Jun 18 j 20:40	25°♈58'21	0°01'24
behind sun begin	-8037 Jun 18 j 13:33	25°♈56'17	
behind sun end	-8037 Jun 19 j 03:46	26°♈00'25	
max. Earth dist.	-8037 Jun 18 j 23:21	25°♈59'05	10.95892 AU
morning rise	-8037 Jul 05 j 23:43	27°♈58'28	
	-8037 Jul 24 j 04:53	0°♉	
retrograde	-8037 Oct 12 j 02:06	4°♉51'06	
opposition	-8037 Dec 19 j 15:27	1°♉33'49	0°19'00
min. Earth dist.	-8037 Dec 19 j 14:08	1°♉34'04	9.02281 AU
	-8036 Jan 10 j 05:01	30°℞♈	
direct	-8036 Feb 29 j 02:23	28°♈10'23	
	-8036 Apr 17 j 23:42	0°♉	
evening set	-8036 Jun 12 j 09:51	5°♉21'15	
conjunction	-8036 Jun 29 j 13:51	7°♉20'15	0°30'15
minimum elong	-8036 Jun 29 j 13:49	7°♉20'15	0°30'31
max. Earth dist.	-8036 Jun 29 j 12:31	7°♉19'52	11.08263 AU
morning rise	-8036 Jul 16 j 12:32	9°♉17'48	
	-8036 Sep 16 j 14:31	15°♉	
retrograde	-8036 Oct 22 j 09:50	16°♉03'58	
	-8036 Nov 27 j 22:17	15°℞♉	
opposition	-8036 Dec 30 j 08:58	12°♉47'51	0°53'31
min. Earth dist.	-8036 Dec 30 j 11:48	12°♉47'20	9.13533 AU
direct	-8035 Mar 12 j 03:21	9°♉25'44	

Attention, astronomical year style is used: The year -8035 in astronomical counting style is the year 8036 BCE in historical counting style.

	-8035 Jun 10 j 09:29	15°♉		
evening set	-8035 Jun 23 j 23:09	16°♉29'42		
conjunction	-8035 Jul 10 j 22:41	18°♉26'27	0°57'34	
minimum elong	-8035 Jul 10 j 22:38	18°♉26'26	0°57'55	
max. Earth dist.	-8035 Jul 10 j 16:39	18°♉24'42	11.18215 AU	
morning rise	-8035 Jul 27 j 17:18	20°♉21'52		
retrograde	-8035 Nov 02 j 12:53	27°♉03'46		
opposition	-8034 Jan 10 j 23:08	23°♉48'33	1°25'19	
min. Earth dist.	-8034 Jan 11 j 06:26	23°♉47'12	9.22210 AU	
direct	-8034 Mar 23 j 22:55	20°♉27'36		
evening set	-8034 Jul 05 j 05:53	27°♉26'15		
conjunction	-8034 Jul 22 j 01:00	29°♉21'08	1°22'21	
minimum elong	-8034 Jul 22 j 00:57	29°♉21'07	1°22'46	
max. Earth dist.	-8034 Jul 21 j 13:58	29°♉17'58	11.25434 AU	
	-8034 Jul 27 j 16:27	0°♊		
morning rise	-8034 Aug 07 j 16:00	1°♊14'54		
retrograde	-8034 Nov 13 j 15:14	7°♊54'42		
opposition	-8033 Jan 22 j 11:13	4°♊40'01	1°53'34	
min. Earth dist.	-8033 Jan 22 j 21:53	4°♊38'04	9.28035 AU	
direct	-8033 Apr 04 j 14:31	1°♊20'07		
evening set	-8033 Jul 16 j 07:44	8°♊15'00		
conjunction	-8033 Aug 01 j 23:00	10°♊08'32	1°43'55	
minimum elong	-8033 Aug 01 j 22:57	10°♊08'31	1°44'25	
max. Earth dist.	-8033 Aug 01 j 08:37	10°♊04'24	11.29701 AU	
morning rise	-8033 Aug 18 j 10:46	12°♊01'08		
retrograde	-8033 Nov 24 j 18:21	18°♊40'55		
opposition	-8032 Feb 02 j 22:35	15°♊26'22	2°17'37	
min. Earth dist.	-8032 Feb 03 j 11:40	15°♊24'00	9.30823 AU	
direct	-8032 Apr 15 j 02:05	12°♊07'20		
evening set	-8032 Jul 26 j 06:23	19°♊00'01		
conjunction	-8032 Aug 11 j 18:27	20°♊52'41	2°01'44	
minimum elong	-8032 Aug 11 j 18:24	20°♊52'41	2°02'16	
max. Earth dist.	-8032 Aug 11 j 01:40	20°♊47'53	11.30878 AU	
morning rise	-8032 Aug 28 j 03:34	22°♊44'39		
retrograde	-8032 Dec 05 j 00:53	29°♊26'23		
opposition	-8031 Feb 13 j 10:49	26°♊11'40	2°36'48	
min. Earth dist.	-8031 Feb 14 j 02:51	26°♊08'46	9.30475 AU	
direct	-8031 Apr 26 j 11:00	22°♊53'14		
evening set	-8031 Aug 06 j 03:46	29°♊45'17		
	-8031 Aug 08 j 07:55	0°♋		
conjunction	-8031 Aug 22 j 13:07	1°♋37'38	2°15'15	
minimum elong	-8031 Aug 22 j 13:05	1°♋37'38	2°15'48	
max. Earth dist.	-8031 Aug 21 j 17:01	1°♋31'51	11.28918 AU	
morning rise	-8031 Sep 07 j 20:31	3°♋29'33		
retrograde	-8031 Dec 16 j 07:49	10°♋15'07		
opposition	-8030 Feb 25 j 01:16	6°♋59'52	2°50'36	
min. Earth dist.	-8030 Feb 25 j 20:10	6°♋56'27	9.26986 AU	
direct	-8030 May 07 j 18:19	3°♋41'47		
evening set	-8030 Aug 17 j 01:23	10°♋34'44		
max. Earth dist.	-8030 Sep 01 j 10:16	12°♋20'46	11.23870 AU	
conjunction	-8030 Sep 02 j 08:58	12°♋27'20	2°24'03	
minimum elong	-8030 Sep 02 j 08:57	12°♋27'20	2°24'34	
morning rise	-8030 Sep 18 j 15:42	14°♋19'46		
retrograde	-8030 Dec 27 j 21:58	21°♋11'05		
opposition	-8029 Mar 08 j 19:12	17°♋54'55	2°58'28	
min. Earth dist.	-8029 Mar 09 j 15:43	17°♋51'11	9.20429 AU	
direct	-8029 May 19 j 05:21	14°♋36'54		
evening set	-8029 Aug 28 j 00:48	21°♋32'15		
max. Earth dist.	-8029 Sep 12 j 08:34	23°♋18'56	11.15826 AU	
conjunction	-8029 Sep 13 j 07:52	23°♋25'45	2°27'41	
minimum elong	-8029 Sep 13 j 07:52	23°♋25'45	2°28'11	
morning rise	-8029 Sep 29 j 14:50	25°♋19'20		
	-8029 Nov 15 j 03:58	0°♌		
retrograde	-8028 Jan 08 j 18:41	2°♌18'11		
	-8028 Mar 06 j 00:55	30°℞♋		
opposition	-8028 Mar 19 j 17:50	29°♋00'46	2°59'55	
min. Earth dist.	-8028 Mar 20 j 14:39	28°♋56'57	9.10922 AU	
direct	-8028 May 29 j 16:39	25°♋42'37		
	-8028 Aug 13 j 14:02	0°♌		
evening set	-8028 Sep 07 j 04:10	2°♌41'55		
max. Earth dist.	-8028 Sep 22 j 11:53	4°♌29'52	11.04959 AU	
conjunction	-8028 Sep 23 j 11:46	4°♌36'56	2°25'48	
minimum elong	-8028 Sep 23 j 11:48	4°♌36'56	2°26'16	
morning rise	-8028 Oct 09 j 20:09	6°♌32'18		
retrograde	-8027 Jan 20 j 00:22	13°♌40'28		
opposition	-8027 Mar 31 j 22:30	10°♌21'33	2°54'30	
min. Earth dist.	-8027 Apr 01 j 19:27	10°♌17'41	8.98725 AU	
direct	-8027 Jun 10 j 08:08	7°♌03'00		
evening set	-8027 Sep 18 j 13:21	14°♌07'51		
	-8027 Sep 25 j 21:30	15°♌		
conjunction	-8027 Oct 04 j 22:31	16°♌05'01	2°18'07	
minimum elong	-8027 Oct 04 j 22:33	16°♌05'02	2°18'32	
max. Earth dist.	-8027 Oct 03 j 22:00	15°♌57'39	10.91640 AU	
morning rise	-8027 Oct 21 j 09:40	18°♌02'52		
retrograde	-8026 Feb 01 j 14:58	25°♌21'56		
opposition	-8026 Apr 13 j 10:47	22°♌01'17	2°41'52	
min. Earth dist.	-8026 Apr 14 j 07:27	21°♌57'25	8.84310 AU	
direct	-8026 Jun 22 j 04:23	18°♌42'06		
evening set	-8026 Sep 30 j 06:03	25°♌53'53		
conjunction	-8026 Oct 16 j 18:03	27°♌53'48	2°04'27	
minimum elong	-8026 Oct 16 j 18:06	27°♌53'49	2°04'48	
max. Earth dist.	-8026 Oct 15 j 18:47	27°♌46'42	10.76407 AU	
morning rise	-8026 Nov 02 j 09:08	29°♌54'44		
	-8026 Nov 03 j 02:47	0°♍		
retrograde	-8025 Feb 14 j 14:57	7°♍26'05		
opposition	-8025 Apr 26 j 07:20	4°♍03'27	2°21'49	
min. Earth dist.	-8025 Apr 27 j 02:23	3°♍59'51	8.68283 AU	
direct	-8025 Jul 04 j 08:43	0°♍43'24		
evening set	-8025 Oct 12 j 08:27	8°♍03'27		
max. Earth dist.	-8025 Oct 28 j 04:22	10°♍00'26	10.59895 AU	
conjunction	-8025 Oct 29 j 00:29	10°♍06'40	1°44'50	
minimum elong	-8025 Oct 29 j 00:33	10°♍06'42	1°45'05	
morning rise	-8025 Nov 14 j 20:22	12°♍11'11		
retrograde	-8024 Feb 28 j 03:37	19°♍55'47		
opposition	-8024 May 08 j 12:36	16°♍31'03	1°54'26	
min. Earth dist.	-8024 May 09 j 04:24	16°♍28'01	8.51341 AU	
direct	-8024 Jul 15 j 22:23	13°♍09'56		
evening set	-8024 Oct 23 j 22:18	20°♍39'24		
conjunction	-8024 Nov 09 j 19:12	22°♍46'21	1°19'36	
minimum elong	-8024 Nov 09 j 19:15	22°♍46'22	1°19'43	
max. Earth dist.	-8024 Nov 09 j 03:11	22°♍41'18	10.42841 AU	
morning rise	-8024 Nov 26 j 20:34	24°♍54'50		
	-8023 Jan 12 j 02:54	0°♎		
retrograde	-8023 Mar 13 j 04:53	2°♎53'12		
	-8023 May 14 j 22:39	30°℞♍		
opposition	-8023 May 22 j 03:24	29°♍26'22	1°20'15	
min. Earth dist.	-8023 May 22 j 14:49	29°♍24'08	8.34282 AU	
direct	-8023 Jul 28 j 19:04	26°♍04'03		
	-8023 Oct 05 j 03:24	0°♎		
evening set	-8023 Nov 06 j 01:09	3°♎43'51		
conjunction	-8023 Nov 23 j 03:22	5°♎54'44	0°49'26	

Attention, astronomical year style is used: The year -8023 in astronomical counting style is the year 8024 BCE in historical counting style.

minimum elong	-8023 Nov 23 j 03:24	5°♎54'45	0°49'26
max. Earth dist.	-8023 Nov 22 j 15:47	5°♎51'01	10.26086 AU
morning rise	-8023 Dec 10 j 10:46	8°♎07'22	
retrograde	-8022 Mar 27 j 16:48	16°♎19'22	
opposition	-8022 Jun 05 j 03:34	12°♎50'33	0°40'22
min. Earth dist.	-8022 Jun 05 j 10:18	12°♎49'12	8.17992 AU
direct	-8022 Aug 11 j 02:27	9°♎26'55	
evening set	-8022 Nov 19 j 18:28	17°♎17'41	
conjunction	-8022 Dec 07 j 02:12	19°♎32'30	0°15'35
minimum elong	-8022 Dec 07 j 02:13	19°♎32'30	0°15'27
behind sun begin	-8022 Dec 07 j 00:14	19°♎31'52	
behind sun end	-8022 Dec 07 j 04:12	19°♎33'09	
max. Earth dist.	-8022 Dec 06 j 19:39	19°♎30'22	10.10532 AU
morning rise	-8022 Dec 24 j 15:39	21°♎49'12	
	-8021 Mar 26 j 10:37	0°♏	
retrograde	-8021 Apr 11 j 14:22	0°♏13'47	
	-8021 Apr 27 j 17:30	30°℞♎	
desc. node	-8021 May 22 j 01:08	28°♎51'27	
opposition	-8021 Jun 19 j 12:14	26°♎43'15	-0°03'24
min. Earth dist.	-8021 Jun 19 j 14:25	26°♎42'48	8.03401 AU
direct	-8021 Aug 24 j 21:08	23°♎18'13	
	-8021 Nov 23 j 15:16	0°♏	
evening set	-8021 Dec 04 j 02:31	1°♏20'02	
conjunction	-8021 Dec 21 j 15:38	3°♏38'30	-0°20'16
minimum elong	-8021 Dec 21 j 15:36	3°♏38'29	0°20'31
max. Earth dist.	-8021 Dec 21 j 15:04	3°♏38'19	9.97097 AU
morning rise	-8020 Jan 08 j 10:32	5°♏58'51	
retrograde	-8020 Apr 25 j 19:38	14°♏34'04	
opposition	-8020 Jul 03 j 04:23	11°♏02'10	-0°48'25
min. Earth dist.	-8020 Jul 03 j 01:46	11°♏02'42	7.91411 AU
direct	-8020 Sep 07 j 02:16	7°♏35'46	
	-8020 Dec 11 j 20:51	15°♏	
evening set	-8020 Dec 18 j 00:32	15°♏47'55	
conjunction	-8019 Jan 04 j 18:25	18°♏09'25	-0°55'41
minimum elong	-8019 Jan 04 j 18:22	18°♏09'24	0°56'03
max. Earth dist.	-8019 Jan 05 j 00:33	18°♏11'28	9.86655 AU
morning rise	-8019 Jan 22 j 17:43	20°♏32'40	
retrograde	-8019 May 11 j 06:24	29°♏15'29	
opposition	-8019 Jul 18 j 01:57	25°♏42'41	-1°31'29
min. Earth dist.	-8019 Jul 17 j 18:26	25°♏44'15	7.82836 AU
direct	-8019 Sep 21 j 16:42	22°♏15'01	
	-8019 Dec 28 j 21:05	0°♐	
evening set	-8018 Jan 02 j 10:50	0°♐35'55	
conjunction	-8018 Jan 20 j 08:37	2°♐59'35	-1°28'08
minimum elong	-8018 Jan 20 j 08:33	2°♐59'33	1°28'35
max. Earth dist.	-8018 Jan 20 j 21:32	3°♐03'56	9.79953 AU
morning rise	-8018 Feb 07 j 10:59	5°♐24'43	
retrograde	-8018 May 26 j 18:58	14°♐11'07	
opposition	-8018 Aug 02 j 02:18	10°♐37'58	-2°09'08
min. Earth dist.	-8018 Aug 01 j 14:06	10°♐40'31	7.78294 AU
direct	-8018 Oct 06 j 14:44	7°♐09'09	
evening set	-8017 Jan 18 j 06:03	15°♐36'23	
conjunction	-8017 Feb 05 j 06:38	18°♐01'08	-1°54'59
minimum elong	-8017 Feb 05 j 06:34	18°♐01'06	1°55'30
max. Earth dist.	-8017 Feb 06 j 01:39	18°♐07'32	9.77496 AU
morning rise	-8017 Feb 23 j 10:35	20°♐26'57	
retrograde	-8017 Jun 11 j 05:30	29°♐12'20	
min. Earth dist.	-8017 Aug 16 j 10:22	25°♐42'50	7.78120 AU
opposition	-8017 Aug 17 j 02:41	25°♐39'23	-2°38'10
direct	-8017 Oct 21 j 17:43	22°♐09'43	
	-8016 Jan 29 j 03:06	0°♑	
evening set	-8016 Feb 03 j 05:27	0°♑39'58	

conjunction	-8016 Feb 21 j 07:39	3°♑04'40	-2°14'04
minimum elong	-8016 Feb 21 j 07:36	3°♑04'39	2°14'36
max. Earth dist.	-8016 Feb 22 j 07:30	3°♑12'40	9.79483 AU
morning rise	-8016 Mar 10 j 11:48	5°♑29'57	
retrograde	-8016 Jun 25 j 10:14	14°♑09'42	
min. Earth dist.	-8016 Aug 30 j 04:52	10°♑41'35	7.82332 AU
opposition	-8016 Aug 31 j 00:04	10°♑37'32	-2°56'14
direct	-8016 Nov 04 j 22:27	7°♑07'18	
evening set	-8015 Feb 18 j 04:06	15°♑36'52	
conjunction	-8015 Mar 08 j 06:55	18°♑00'30	-2°24'00
minimum elong	-8015 Mar 08 j 06:54	18°♑00'29	2°24'32
max. Earth dist.	-8015 Mar 09 j 09:47	18°♑09'26	9.85788 AU
morning rise	-8015 Mar 26 j 10:12	20°♑24'12	
retrograde	-8015 Jul 10 j 05:52	28°♑54'06	
opposition	-8015 Sep 14 j 15:42	25°♑23'15	-3°02'15
min. Earth dist.	-8015 Sep 13 j 19:10	25°♑27'34	7.90624 AU
direct	-8015 Nov 20 j 01:14	21°♑52'50	
	-8014 Mar 03 j 12:47	0°♒	
evening set	-8014 Mar 05 j 21:08	0°♒18'04	
conjunction	-8014 Mar 23 j 23:41	2°♒39'45	-2°24'23
minimum elong	-8014 Mar 23 j 23:42	2°♒39'46	2°24'53
max. Earth dist.	-8014 Mar 25 j 03:34	2°♒48'54	9.95946 AU
morning rise	-8014 Apr 11 j 01:18	5°♒01'02	
retrograde	-8014 Jul 24 j 14:40	13°♒17'57	
opposition	-8014 Sep 28 j 23:34	9°♒48'51	-2°56'29
min. Earth dist.	-8014 Sep 28 j 03:17	9°♒53'04	8.02395 AU
direct	-8014 Dec 04 j 23:47	6°♒18'39	
evening set	-8013 Mar 21 j 04:35	14°♒36'26	
	-8013 Mar 24 j 06:50	15°♒	
conjunction	-8013 Apr 08 j 06:02	16°♒55'30	-2°15'49
minimum elong	-8013 Apr 08 j 06:04	16°♒55'30	2°16'15
max. Earth dist.	-8013 Apr 09 j 08:50	17°♒04'09	10.09227 AU
morning rise	-8013 Apr 26 j 05:17	19°♒13'44	
retrograde	-8013 Aug 07 j 10:52	27°♒15'48	
opposition	-8013 Oct 12 j 22:10	23°♒48'43	-2°40'14
min. Earth dist.	-8013 Oct 12 j 03:20	23°♒52'35	8.16847 AU
direct	-8013 Dec 19 j 15:43	20°♒19'07	
evening set	-8012 Apr 03 j 23:37	28°♒27'08	
	-8012 Apr 16 j 07:11	0°♓	
conjunction	-8012 Apr 21 j 23:14	0°♓43'08	-1°59'35
minimum elong	-8012 Apr 21 j 23:18	0°♓43'09	1°59'54
max. Earth dist.	-8012 Apr 22 j 23:07	0°♓50'43	10.24758 AU
morning rise	-8012 May 09 j 19:40	2°♓58'00	
retrograde	-8012 Aug 19 j 17:39	10°♓44'36	
opposition	-8012 Oct 25 j 10:47	7°♓19'41	-2°15'35
min. Earth dist.	-8012 Oct 24 j 17:51	7°♓23'07	8.33075 AU
direct	-8011 Jan 01 j 23:19	3°♓51'01	
evening set	-8011 Apr 18 j 04:44	11°♓47'54	
conjunction	-8011 May 06 j 01:56	14°♓00'35	-1°37'21
minimum elong	-8011 May 06 j 02:00	14°♓00'36	1°37'33
max. Earth dist.	-8011 May 06 j 22:00	14°♓06'50	10.41587 AU
morning rise	-8011 May 23 j 19:04	16°♓11'56	
retrograde	-8011 Sep 01 j 11:31	23°♓43'33	
opposition	-8011 Nov 07 j 13:27	20°♓20'46	-1°44'49
min. Earth dist.	-8011 Nov 06 j 22:52	20°♓23'40	8.50127 AU
direct	-8010 Jan 15 j 21:10	16°♓53'17	
evening set	-8010 May 01 j 19:53	24°♓38'34	
conjunction	-8010 May 19 j 14:02	26°♓47'52	-1°10'57
minimum elong	-8010 May 19 j 14:05	26°♓47'53	1°11'01
max. Earth dist.	-8010 May 20 j 05:58	26°♓52'44	10.58757 AU
morning rise	-8010 Jun 06 j 03:20	28°♓55'40	

Attention, astronomical year style is used: The year -8010 in astronomical counting style is the year 8011 BCE in historical counting style.

	-8010 Jun 15 j 05:46	0°♈	
retrograde	-8010 Sep 13 j 20:39	6°♈13'36	
opposition	-8010 Nov 20 j 06:42	2°♈52'50	-1°10'12
min. Earth dist.	-8010 Nov 19 j 19:12	2°♈55'05	8.67090 AU
	-8009 Jan 03 j 06:39	30°℞♓	
direct	-8009 Jan 29 j 06:45	29°♓26'39	
	-8009 Feb 24 j 05:51	0°♈	
evening set	-8009 May 14 j 21:28	7°♈00'37	
conjunction	-8009 Jun 01 j 12:00	9°♈06'38	-0°42'04
minimum elong	-8009 Jun 01 j 12:02	9°♈06'39	0°42'02
max. Earth dist.	-8009 Jun 01 j 23:32	9°♈10'06	10.75385 AU
morning rise	-8009 Jun 18 j 21:07	11°♈11'02	
retrograde	-8009 Sep 25 j 19:36	18°♈17'04	
opposition	-8009 Dec 02 j 15:39	14°♈58'07	-0°33'45
min. Earth dist.	-8009 Dec 02 j 08:34	14°♈59'29	8.83134 AU
direct	-8008 Feb 11 j 06:12	11°♈33'17	
evening set	-8008 May 26 j 10:30	18°♈56'50	
conjunction	-8008 Jun 12 j 20:53	20°♈59'45	-0°12'15
minimum elong	-8008 Jun 12 j 20:54	20°♈59'45	0°12'07
behind sun begin	-8008 Jun 12 j 16:05	20°♈58'20	
behind sun end	-8008 Jun 13 j 01:43	21°♈01'09	
max. Earth dist.	-8008 Jun 13 j 02:51	21°♈01'29	10.90672 AU
morning rise	-8008 Jun 30 j 01:46	23°♈01'05	
retrograde	-8008 Oct 06 j 10:08	29°♈57'21	
asc. node	-8008 Nov 14 j 07:10	28°♈43'45	
opposition	-8008 Dec 13 j 17:23	26°♈39'59	0°02'52
min. Earth dist.	-8008 Dec 13 j 15:14	26°♈40'24	8.97516 AU
direct	-8007 Feb 22 j 21:18	23°♈16'28	
	-8007 Jun 02 j 23:42	0°♉	
evening set	-8007 Jun 07 j 12:54	0°♉30'59	
conjunction	-8007 Jun 24 j 18:47	2°♉31'06	0°17'22
minimum elong	-8007 Jun 24 j 18:46	2°♉31'05	0°17'36
max. Earth dist.	-8007 Jun 24 j 18:20	2°♉30'58	11.03967 AU
morning rise	-8007 Jul 11 j 19:30	4°♉29'42	
retrograde	-8007 Oct 17 j 18:41	11°♉18'31	
opposition	-8007 Dec 25 j 13:13	8°♉02'26	0°38'17
min. Earth dist.	-8007 Dec 25 j 15:22	8°♉02'02	9.09680 AU
direct	-8006 Mar 07 j 03:18	4°♉40'11	
evening set	-8006 Jun 19 j 06:07	11°♉47'10	
conjunction	-8006 Jul 06 j 07:33	13°♉44'51	0°45'34
minimum elong	-8006 Jul 06 j 07:31	13°♉44'50	0°45'53
max. Earth dist.	-8006 Jul 06 j 01:57	13°♉43'14	11.14837 AU
	-8006 Jul 17 j 03:49	15°♉	
morning rise	-8006 Jul 23 j 04:06	15°♉41'09	
retrograde	-8006 Oct 28 j 23:46	22°♉24'47	
opposition	-8005 Jan 06 j 05:00	19°♉09'35	1°11'25
min. Earth dist.	-8005 Jan 06 j 10:27	19°♉08'35	9.19271 AU
direct	-8005 Mar 19 j 03:20	15°♉48'29	
evening set	-8005 Jun 30 j 15:45	22°♉49'26	
conjunction	-8005 Jul 17 j 12:56	24°♉45'06	1°11'35
minimum elong	-8005 Jul 17 j 12:54	24°♉45'05	1°11'58
max. Earth dist.	-8005 Jul 17 j 03:48	24°♉42'28	11.22989 AU
morning rise	-8005 Aug 03 j 05:28	26°♉39'32	
	-8005 Sep 04 j 06:23	0°♊	
retrograde	-8005 Nov 09 j 04:31	3°♊20'08	
opposition	-8004 Jan 17 j 18:02	0°♊05'29	1°41'22
min. Earth dist.	-8004 Jan 18 j 03:26	0°♊03'45	9.26038 AU
	-8004 Jan 18 j 23:55	30°℞♉	
direct	-8004 Mar 29 j 20:20	26°♉45'19	
	-8004 Jun 04 j 19:08	0°♊	
evening set	-8004 Jul 10 j 19:51	3°♊41'47	

conjunction	-8004 Jul 27 j 12:56	5°♊35'54	1°34'40
minimum elong	-8004 Jul 27 j 12:53	5°♊35'53	1°35'08
max. Earth dist.	-8004 Jul 26 j 23:29	5°♊32'03	11.28211 AU
morning rise	-8004 Aug 13 j 02:01	7°♊28'59	
retrograde	-8004 Nov 19 j 05:19	14°♊08'34	
opposition	-8003 Jan 28 j 05:32	10°♊54'04	2°07'23
min. Earth dist.	-8003 Jan 28 j 19:07	10°♊51'36	9.29803 AU
direct	-8003 Apr 10 j 08:15	7°♊34'36	
evening set	-8003 Jul 21 j 19:58	14°♊28'14	
conjunction	-8003 Aug 07 j 09:20	16°♊21'15	1°54'14
minimum elong	-8003 Aug 07 j 09:17	16°♊21'14	1°54'45
max. Earth dist.	-8003 Aug 06 j 15:32	16°♊16'09	11.30380 AU
morning rise	-8003 Aug 23 j 19:40	18°♊13'29	
retrograde	-8003 Nov 30 j 09:06	24°♊54'08	
opposition	-8002 Feb 08 j 17:15	21°♊39'24	2°28'50
min. Earth dist.	-8002 Feb 09 j 09:43	21°♊36'25	9.30469 AU
direct	-8002 Apr 21 j 19:53	18°♊20'27	
evening set	-8002 Aug 01 j 17:31	25°♊12'43	
max. Earth dist.	-8002 Aug 17 j 08:01	26°♊59'27	11.29443 AU
conjunction	-8002 Aug 18 j 04:00	27°♊05'12	2°09'45
minimum elong	-8002 Aug 18 j 03:58	27°♊05'11	2°10'17
morning rise	-8002 Sep 03 j 12:11	28°♊57'07	
	-8002 Sep 12 j 23:21	0°♋	
retrograde	-8002 Dec 11 j 15:21	5°♋40'48	
opposition	-8001 Feb 20 j 06:24	2°♋25'28	2°45'09
min. Earth dist.	-8001 Feb 21 j 00:28	2°♋22'12	9.28018 AU
	-8001 Mar 29 j 19:12	30°℞♊	
direct	-8001 May 03 j 04:24	29°♊06'50	
	-8001 Jun 05 j 21:49	0°♋	
evening set	-8001 Aug 12 j 14:33	5°♋59'18	
conjunction	-8001 Aug 28 j 23:02	7°♋51'48	2°20'44
minimum elong	-8001 Aug 28 j 23:00	7°♋51'48	2°21'15
max. Earth dist.	-8001 Aug 28 j 01:33	7°♋45'36	11.25434 AU
morning rise	-8001 Sep 14 j 05:53	9°♋43'59	
retrograde	-8001 Dec 23 j 03:24	16°♋32'35	
opposition	-8000 Mar 02 j 22:17	13°♋16'22	2°55'46
min. Earth dist.	-8000 Mar 03 j 17:58	13°♋12'47	9.22531 AU
direct	-8000 May 13 j 13:15	9°♋57'49	
evening set	-8000 Aug 22 j 12:49	16°♋52'03	
conjunction	-8000 Sep 07 j 20:05	18°♋45'11	2°26'45
minimum elong	-8000 Sep 07 j 20:04	18°♋45'10	2°27'16
max. Earth dist.	-8000 Sep 06 j 20:24	18°♋38'17	11.18482 AU
morning rise	-8000 Sep 24 j 02:50	20°♋38'15	
retrograde	-7999 Jan 02 j 19:32	27°♋33'34	
opposition	-7999 Mar 14 j 18:29	24°♋16'12	3°00'12
min. Earth dist.	-7999 Mar 15 j 15:54	24°♋12'17	9.14171 AU
direct	-7999 May 24 j 22:29	20°♋57'32	
evening set	-7999 Sep 02 j 13:58	27°♋55'05	
conjunction	-7999 Sep 18 j 21:05	29°♋49'25	2°27'25
minimum elong	-7999 Sep 18 j 21:06	29°♋49'25	2°27'55
max. Earth dist.	-7999 Sep 17 j 20:27	29°♋42'10	11.08799 AU
	-7999 Sep 20 j 09:02	0°♌	
morning rise	-7999 Oct 05 j 04:51	1°♌44'00	
retrograde	-7998 Jan 14 j 19:37	8°♌47'52	
opposition	-7998 Mar 26 j 20:14	5°♌29'05	2°57'58
min. Earth dist.	-7998 Mar 27 j 17:49	5°♌25'06	9.03196 AU
direct	-7998 Jun 05 j 12:56	2°♌10'08	
evening set	-7998 Sep 13 j 19:56	9°♌12'28	
max. Earth dist.	-7998 Sep 29 j 04:39	11°♌01'36	10.96687 AU
conjunction	-7998 Sep 30 j 04:19	11°♌08'39	2°22'24
minimum elong	-7998 Sep 30 j 04:21	11°♌08'40	2°22'51

Attention, astronomical year style is used: The year -7998 in astronomical counting style is the year 7999 BCE in historical counting style.

morning rise	-7998 Oct 16 j 14:07	13°♌05'23	
	-7998 Nov 02 j 10:35	15°♌	
retrograde	-7997 Jan 27 j 06:07	20°♌19'25	
opposition	-7997 Apr 08 j 04:40	16°♌59'00	2°48'38
min. Earth dist.	-7997 Apr 09 j 00:55	16°♌55'14	8.89964 AU
	-7997 May 06 j 17:26	15°℞♌	
direct	-7997 Jun 17 j 07:12	13°♌39'36	
	-7997 Jul 27 j 13:14	15°♌	
evening set	-7997 Sep 25 j 08:41	20°♌48'09	
conjunction	-7997 Oct 11 j 19:27	22°♌46'49	2°11'28
minimum elong	-7997 Oct 11 j 19:30	22°♌46'50	2°11'51
max. Earth dist.	-7997 Oct 10 j 21:17	22°♌40'06	10.82548 AU
morning rise	-7997 Oct 28 j 08:30	24°♌46'20	
	-7997 Dec 18 j 06:06	0°♍	
retrograde	-7996 Feb 09 j 02:27	2°♍11'58	
	-7996 Apr 04 j 00:12	30°℞♌	
opposition	-7996 Apr 19 j 20:59	28°♌49'47	2°31'57
min. Earth dist.	-7996 Apr 20 j 15:14	28°♌46'20	8.74934 AU
direct	-7996 Jun 28 j 06:59	25°♌29'46	
	-7996 Sep 12 j 02:24	0°♍	
evening set	-7996 Oct 06 j 06:18	2°♍45'56	
conjunction	-7996 Oct 22 j 20:22	4°♍47'38	1°54'32
minimum elong	-7996 Oct 22 j 20:25	4°♍47'39	1°54'49
max. Earth dist.	-7996 Oct 21 j 23:35	4°♍41'14	10.66904 AU
morning rise	-7996 Nov 08 j 13:51	6°♍50'28	
retrograde	-7995 Feb 21 j 10:16	14°♍28'54	
opposition	-7995 May 02 j 22:07	11°♍04'51	2°07'50
min. Earth dist.	-7995 May 03 j 14:16	11°♍01'46	8.58707 AU
direct	-7995 Jul 10 j 14:44	7°♍44'03	
evening set	-7995 Oct 18 j 14:35	15°♍09'05	
conjunction	-7995 Nov 04 j 08:59	17°♍14'17	1°31'46
minimum elong	-7995 Nov 04 j 09:02	17°♍14'18	1°31'56
max. Earth dist.	-7995 Nov 03 j 15:00	17°♍08'39	10.50415 AU
morning rise	-7995 Nov 21 j 07:50	19°♍20'56	
retrograde	-7994 Mar 07 j 05:13	27°♍12'54	
opposition	-7994 May 16 j 08:40	23°♍46'59	1°36'35
min. Earth dist.	-7994 May 16 j 21:49	23°♍44'26	8.42017 AU
direct	-7994 Jul 23 j 07:19	20°♍25'14	
evening set	-7994 Oct 31 j 11:14	28°♍00'13	
	-7994 Nov 16 j 05:52	0°♎	
conjunction	-7994 Nov 17 j 10:51	0°♎09'15	1°03'41
minimum elong	-7994 Nov 17 j 10:54	0°♎09'16	1°03'44
max. Earth dist.	-7994 Nov 16 j 21:30	0°♎04'59	10.33842 AU
morning rise	-7994 Dec 04 j 15:34	2°♎19'57	
retrograde	-7993 Mar 21 j 11:02	10°♎25'42	
opposition	-7993 May 30 j 04:39	6°♎57'57	0°59'04
min. Earth dist.	-7993 May 30 j 13:40	6°♎56'10	8.25685 AU
direct	-7993 Aug 05 j 11:25	3°♎35'08	
evening set	-7993 Nov 13 j 21:57	11°♎20'49	
conjunction	-7993 Dec 01 j 03:10	13°♎33'47	0°31'18
minimum elong	-7993 Dec 01 j 03:12	13°♎33'48	0°31'13
max. Earth dist.	-7993 Nov 30 j 19:43	13°♎31'23	10.18036 AU
morning rise	-7993 Dec 18 j 13:48	15°♎48'35	
retrograde	-7992 Apr 04 j 04:17	24°♎07'28	
opposition	-7992 Jun 12 j 09:32	20°♎38'03	0°16'46
min. Earth dist.	-7992 Jun 12 j 13:16	20°♎37'18	8.10611 AU
direct	-7992 Aug 18 j 01:23	17°♎14'06	
desc. node	-7992 Nov 02 j 13:20	22°♎11'02	
evening set	-7992 Nov 26 j 23:21	25°♎10'44	
conjunction	-7992 Dec 14 j 10:05	27°♎27'29	-0°03'59
minimum elong	-7992 Dec 14 j 10:04	27°♎27'29	0°04'11
behind sun begin	-7992 Dec 14 j 02:57	27°♎25'10	
behind sun end	-7992 Dec 14 j 17:12	27°♎29'48	
max. Earth dist.	-7992 Dec 14 j 08:49	27°♎27'07	10.03916 AU
morning rise	-7991 Jan 01 j 02:20	29°♎46'07	
	-7991 Jan 02 j 21:33	0°♏	
retrograde	-7991 Apr 19 j 07:22	8°♏16'34	
opposition	-7991 Jun 26 j 22:37	4°♏45'45	-0°28'03
min. Earth dist.	-7991 Jun 26 j 20:48	4°♏46'08	7.97713 AU
direct	-7991 Sep 01 j 00:38	1°♏20'36	
evening set	-7991 Dec 11 j 15:12	9°♏27'47	
conjunction	-7991 Dec 29 j 06:59	11°♏47'50	-0°39'51
minimum elong	-7991 Dec 29 j 06:57	11°♏47'49	0°40'10
max. Earth dist.	-7991 Dec 29 j 12:00	11°♏49'30	9.92373 AU
morning rise	-7990 Jan 16 j 04:09	14°♏09'42	
	-7990 Jan 22 j 16:02	15°♏	
retrograde	-7990 May 04 j 17:36	22°♏49'05	
opposition	-7990 Jul 11 j 18:01	19°♏17'14	-1°12'24
min. Earth dist.	-7990 Jul 11 j 11:14	19°♏18'38	7.87814 AU
direct	-7990 Sep 15 j 09:59	15°♏50'49	
evening set	-7990 Dec 26 j 20:22	24°♏07'25	
conjunction	-7989 Jan 13 j 16:21	26°♏29'59	-1°13'57
minimum elong	-7989 Jan 13 j 16:17	26°♏29'58	1°14'22
max. Earth dist.	-7989 Jan 14 j 03:08	26°♏33'36	9.84145 AU
morning rise	-7989 Jan 31 j 17:15	28°♏54'10	
	-7989 Feb 09 j 04:16	0°♐	
retrograde	-7989 May 20 j 06:14	7°♐38'52	
opposition	-7989 Jul 26 j 17:13	4°♐06'27	-1°52'53
min. Earth dist.	-7989 Jul 26 j 06:26	4°♐08'42	7.81526 AU
direct	-7989 Sep 30 j 04:56	0°♐38'47	
evening set	-7988 Jan 11 j 11:49	9°♐02'52	
conjunction	-7988 Jan 29 j 10:59	11°♐27'00	-1°43'37
minimum elong	-7988 Jan 29 j 10:55	11°♐26'58	1°44'06
max. Earth dist.	-7988 Jan 30 j 02:39	11°♐32'16	9.79730 AU
morning rise	-7988 Feb 16 j 14:13	13°♐52'25	
retrograde	-7988 Jun 03 j 18:01	22°♐38'17	
opposition	-7988 Aug 09 j 17:54	19°♐05'50	-2°26'07
min. Earth dist.	-7988 Aug 09 j 04:03	19°♐08'44	7.79205 AU
direct	-7988 Oct 14 j 06:06	15°♐37'09	
evening set	-7987 Jan 26 j 09:34	24°♐05'58	
conjunction	-7987 Feb 13 j 10:52	26°♐30'38	-2°06'26
minimum elong	-7987 Feb 13 j 10:49	26°♐30'37	2°06'58
max. Earth dist.	-7987 Feb 14 j 06:48	26°♐37'20	9.79417 AU
morning rise	-7987 Mar 03 j 15:04	28°♐56'09	
	-7987 Mar 11 j 19:27	0°♑	
retrograde	-7987 Jun 19 j 01:36	7°♑38'46	
opposition	-7987 Aug 24 j 17:05	4°♑06'49	-2°49'22
min. Earth dist.	-7987 Aug 24 j 00:41	4°♑10'17	7.81059 AU
direct	-7987 Oct 29 j 10:53	0°♑37'22	
evening set	-7986 Feb 11 j 09:19	9°♑07'33	
conjunction	-7986 Mar 01 j 11:47	11°♑31'41	-2°20'37
minimum elong	-7986 Mar 01 j 11:44	11°♑31'41	2°21'09
max. Earth dist.	-7986 Mar 02 j 11:02	11°♑39'27	9.83343 AU
morning rise	-7986 Mar 19 j 15:42	13°♑56'11	
retrograde	-7986 Jul 04 j 01:11	22°♑31'04	
opposition	-7986 Sep 08 j 11:50	19°♑00'07	-3°00'56
min. Earth dist.	-7986 Sep 07 j 17:30	19°♑03'58	7.87061 AU
direct	-7986 Nov 13 j 15:37	15°♑30'10	
evening set	-7985 Feb 27 j 05:53	23°♑57'57	
conjunction	-7985 Mar 17 j 08:33	26°♑20'36	-2°25'19
minimum elong	-7985 Mar 17 j 08:34	26°♑20'36	2°25'50
max. Earth dist.	-7985 Mar 18 j 09:47	26°♑28'56	9.91312 AU

Attention, astronomical year style is used: The year -7985 in astronomical counting style is the year 7986 BCE in historical counting style.

morning rise	-7985 Apr 04 j 11:10	28°♓43'06	
	-7985 Apr 14 j 12:38	0°♒	
retrograde	-7985 Jul 18 j 14:50	7°♒06'32	
opposition	-7985 Sep 22 j 23:54	3°♒36'57	-3°00'26
min. Earth dist.	-7985 Sep 22 j 04:27	3°♒41'00	7.96831 AU
direct	-7985 Nov 28 j 17:11	0°♒06'53	
evening set	-7984 Mar 13 j 18:22	8°♒28'41	
conjunction	-7984 Mar 31 j 20:27	10°♒49'04	-2°20'42
minimum elong	-7984 Mar 31 j 20:29	10°♒49'05	2°21'09
max. Earth dist.	-7984 Apr 01 j 22:14	10°♒57'28	10.02775 AU
morning rise	-7984 Apr 18 j 20:58	13°♒08'50	
	-7984 May 03 j 18:33	15°♒	
retrograde	-7984 Jul 31 j 17:19	21°♒18'17	
min. Earth dist.	-7984 Oct 05 j 07:46	17°♒54'22	8.09688 AU
opposition	-7984 Oct 06 j 03:14	17°♒50'21	-2°48'44
	-7984 Nov 15 j 11:44	15°℞♒	
direct	-7984 Dec 12 j 13:02	14°♒20'31	
	-7983 Jan 08 j 14:24	15°♒	
evening set	-7983 Mar 28 j 19:43	22°♒33'34	
conjunction	-7983 Apr 15 j 20:28	24°♒51'08	-2°07'44
minimum elong	-7983 Apr 15 j 20:32	24°♒51'09	2°08'06
max. Earth dist.	-7983 Apr 16 j 21:15	24°♒59'04	10.16937 AU
morning rise	-7983 May 03 j 18:17	27°♒07'41	
	-7983 May 27 j 18:24	0°♓	
retrograde	-7983 Aug 14 j 06:47	5°♓01'50	
opposition	-7983 Oct 19 j 20:42	1°♓35'47	-2°27'37
min. Earth dist.	-7983 Oct 19 j 02:50	1°♓39'26	8.24775 AU
	-7983 Nov 09 j 05:49	30°℞♒	
direct	-7983 Dec 27 j 00:37	28°♒06'31	
	-7982 Feb 12 j 08:55	0°♓	
evening set	-7982 Apr 12 j 07:47	6°♓09'00	
conjunction	-7982 Apr 30 j 06:26	8°♓23'23	-1°48'00
minimum elong	-7982 Apr 30 j 06:30	8°♓23'24	1°48'15
max. Earth dist.	-7982 May 01 j 04:29	8°♓30'19	10.32866 AU
morning rise	-7982 May 18 j 01:04	10°♓36'28	
retrograde	-7982 Aug 27 j 07:23	18°♓15'18	
opposition	-7982 Nov 02 j 04:16	14°♓51'14	-1°59'19
min. Earth dist.	-7982 Nov 01 j 13:17	14°♓54'15	8.41165 AU
direct	-7981 Jan 10 j 02:39	11°♓22'50	
evening set	-7981 Apr 26 j 05:35	19°♓13'51	
conjunction	-7981 May 14 j 01:19	21°♓24'52	-1°23'14
minimum elong	-7981 May 14 j 01:22	21°♓24'53	1°23'22
max. Earth dist.	-7981 May 14 j 19:00	21°♓30'19	10.49622 AU
morning rise	-7981 May 31 j 16:24	23°♓34'25	
	-7981 Aug 06 j 14:38	0°♈	
retrograde	-7981 Sep 08 j 20:30	0°♈58'52	
	-7981 Oct 12 j 11:13	30°℞♓	
opposition	-7981 Nov 15 j 02:03	27°♓36'46	-1°26'09
min. Earth dist.	-7981 Nov 14 j 14:26	27°♓39'04	8.57955 AU
direct	-7980 Jan 23 j 18:02	24°♓09'27	
	-7980 Apr 22 j 19:54	0°♈	
evening set	-7980 May 08 j 13:24	1°♈48'58	
conjunction	-7980 May 26 j 05:38	3°♈56'38	-0°55'15
minimum elong	-7980 May 26 j 05:41	3°♈56'39	0°55'17
max. Earth dist.	-7980 May 26 j 18:07	4°♈00'25	10.66331 AU
morning rise	-7980 Jun 12 j 16:54	6°♈02'45	
retrograde	-7980 Sep 19 j 21:59	13°♈14'23	
opposition	-7980 Nov 26 j 14:40	9°♈54'07	-0°50'15
min. Earth dist.	-7980 Nov 26 j 06:16	9°♈55'45	8.74319 AU
direct	-7979 Feb 04 j 23:49	6°♈28'02	
evening set	-7979 May 21 j 08:06	13°♈56'42	
conjunction	-7979 Jun 07 j 20:28	16°♈01'09	-0°25'40
minimum elong	-7979 Jun 07 j 20:30	16°♈01'10	0°25'34
max. Earth dist.	-7979 Jun 08 j 03:59	16°♈03'23	10.82212 AU
morning rise	-7979 Jun 25 j 03:35	18°♈04'02	
retrograde	-7979 Oct 01 j 16:11	25°♈04'53	
opposition	-7979 Dec 08 j 19:30	21°♈46'14	-0°13'30
min. Earth dist.	-7979 Dec 08 j 14:16	21°♈47'14	8.89526 AU
direct	-7978 Feb 17 j 19:34	18°♈21'31	
asc. node	-7978 Apr 26 j 23:21	21°♈48'07	
evening set	-7978 Jun 02 j 15:09	25°♈40'21	
conjunction	-7978 Jun 19 j 23:18	27°♈41'51	0°04'16
minimum elong	-7978 Jun 19 j 23:18	27°♈41'51	0°04'28
behind sun begin	-7978 Jun 19 j 16:20	27°♈39'49	
behind sun end	-7978 Jun 20 j 06:16	27°♈43'52	
max. Earth dist.	-7978 Jun 20 j 02:47	27°♈42'50	10.96597 AU
morning rise	-7978 Jul 07 j 01:58	29°♈41'47	
	-7978 Jul 09 j 17:36	0°♉	
retrograde	-7978 Oct 13 j 04:47	6°♉33'59	
opposition	-7978 Dec 20 j 17:56	3°♉16'46	0°22'39
min. Earth dist.	-7978 Dec 20 j 16:45	3°♉17'00	9.02986 AU
	-7977 Feb 18 j 10:26	30°℞♈	
direct	-7977 Mar 02 j 04:00	29°♈53'25	
	-7977 Mar 13 j 22:22	0°♉	
evening set	-7977 Jun 14 j 12:14	7°♉03'48	
conjunction	-7977 Jul 01 j 15:53	9°♉02'39	0°33'09
minimum elong	-7977 Jul 01 j 15:52	9°♉02'38	0°33'26
max. Earth dist.	-7977 Jul 01 j 14:39	9°♉02'17	11.08963 AU
morning rise	-7977 Jul 18 j 14:14	11°♉00'02	
	-7977 Aug 26 j 11:35	15°♉	
retrograde	-7977 Oct 24 j 10:32	17°♉45'49	
	-7977 Dec 25 j 16:15	15°℞♉	
opposition	-7976 Jan 01 j 11:20	14°♉29'46	0°56'56
min. Earth dist.	-7976 Jan 01 j 14:43	14°♉29'08	9.14234 AU
direct	-7976 Mar 13 j 06:06	11°♉07'42	
	-7976 May 25 j 19:27	15°♉	
evening set	-7976 Jun 25 j 00:55	18°♉11'11	
conjunction	-7976 Jul 12 j 00:01	20°♉07'45	1°00'14
minimum elong	-7976 Jul 11 j 23:58	20°♉07'44	1°00'36
max. Earth dist.	-7976 Jul 11 j 17:19	20°♉05'49	11.18900 AU
morning rise	-7976 Jul 28 j 18:27	22°♉03'01	
retrograde	-7976 Nov 03 j 13:58	28°♉44'37	
opposition	-7975 Jan 12 j 01:05	25°♉29'24	1°28'23
min. Earth dist.	-7975 Jan 12 j 08:10	25°♉28'06	9.22887 AU
direct	-7975 Mar 25 j 02:03	22°♉08'32	
evening set	-7975 Jul 06 j 07:06	29°♉06'42	
	-7975 Jul 14 j 03:27	0°♊	
conjunction	-7975 Jul 23 j 01:56	1°♊01'26	1°24'42
minimum elong	-7975 Jul 23 j 01:53	1°♊01'25	1°25'09
max. Earth dist.	-7975 Jul 22 j 15:10	0°♊58'21	11.26084 AU
morning rise	-7975 Aug 08 j 16:40	2°♊55'04	
retrograde	-7975 Nov 14 j 15:50	9°♊34'36	
opposition	-7974 Jan 23 j 12:41	6°♊19'54	1°56'13
min. Earth dist.	-7974 Jan 23 j 22:39	6°♊18'05	9.28660 AU
direct	-7974 Apr 05 j 16:33	3°♊00'05	
evening set	-7974 Jul 17 j 08:26	9°♊54'31	
conjunction	-7974 Aug 02 j 23:30	11°♊47'54	1°45'54
minimum elong	-7974 Aug 02 j 23:27	11°♊47'53	1°46'24
max. Earth dist.	-7974 Aug 02 j 09:54	11°♊44'00	11.30293 AU
morning rise	-7974 Aug 19 j 10:55	13°♊40'22	
retrograde	-7974 Nov 25 j 20:04	20°♊19'56	
opposition	-7973 Feb 03 j 23:54	17°♊05'25	2°19'45
min. Earth dist.	-7973 Feb 04 j 12:53	17°♊03'04	9.31385 AU

Attention, astronomical year style is used: The year -7973 in astronomical counting style is the year 7974 BCE in historical counting style.

direct	-7973 Apr 17 j 03:26	13°♊46'27	
evening set	-7973 Jul 28 j 06:40	20°♊38'42	
conjunction	-7973 Aug 13 j 18:24	22°♊31'15	2°03'16
minimum elong	-7973 Aug 13 j 18:21	22°♊31'15	2°03'48
max. Earth dist.	-7973 Aug 13 j 01:22	22°♊26'22	11.31405 AU
morning rise	-7973 Aug 30 j 03:20	24°♊23'07	
	-7973 Oct 31 j 05:44	0°♋	
retrograde	-7973 Dec 06 j 23:40	1°♋04'40	
	-7972 Jan 13 j 17:03	30°℞♊	
opposition	-7972 Feb 15 j 11:55	27°♊49'58	2°38'23
min. Earth dist.	-7972 Feb 16 j 04:26	27°♊46'59	9.30976 AU
direct	-7972 Apr 27 j 10:45	24°♊31'36	
	-7972 Jul 25 j 12:34	0°♋	
evening set	-7972 Aug 07 j 03:38	1°♋23'17	
conjunction	-7972 Aug 23 j 12:44	3°♋15'31	2°16'19
minimum elong	-7972 Aug 23 j 12:41	3°♋15'31	2°16'51
max. Earth dist.	-7972 Aug 22 j 16:16	3°♋09'38	11.29387 AU
morning rise	-7972 Sep 08 j 20:06	5°♋07'20	
retrograde	-7972 Dec 17 j 08:16	11°♋52'48	
opposition	-7971 Feb 26 j 01:54	8°♋37'34	2°51'34
min. Earth dist.	-7971 Feb 26 j 20:42	8°♋34'09	9.27426 AU
direct	-7971 May 08 j 20:22	5°♋19'32	
evening set	-7971 Aug 18 j 00:50	12°♋12'09	
max. Earth dist.	-7971 Sep 02 j 10:29	13°♋58'21	11.24279 AU
conjunction	-7971 Sep 03 j 08:23	14°♋04'41	2°24'36
minimum elong	-7971 Sep 03 j 08:22	14°♋04'41	2°25'07
morning rise	-7971 Sep 19 j 14:59	15°♋57'03	
retrograde	-7971 Dec 28 j 21:50	22°♋48'17	
opposition	-7970 Mar 09 j 19:35	19°♋32'06	2°58'48
min. Earth dist.	-7970 Mar 10 j 15:13	19°♋28'32	9.20810 AU
direct	-7970 May 20 j 05:12	16°♋14'12	
evening set	-7970 Aug 28 j 23:58	23°♋09'13	
max. Earth dist.	-7970 Sep 13 j 08:21	24°♋56'01	11.16188 AU
conjunction	-7970 Sep 14 j 07:02	25°♋02'39	2°27'42
minimum elong	-7970 Sep 14 j 07:02	25°♋02'39	2°28'12
morning rise	-7970 Sep 30 j 13:55	26°♋56'11	
	-7970 Oct 29 j 02:03	0°♌	
retrograde	-7969 Jan 09 j 19:10	3°♌54'58	
opposition	-7969 Mar 21 j 18:08	0°♌37'33	2°59'36
min. Earth dist.	-7969 Mar 22 j 14:36	0°♌33'49	9.11274 AU
	-7969 Mar 30 j 08:39	30°℞♋	
direct	-7969 May 31 j 16:42	27°♋19'29	
	-7969 Jul 29 j 10:33	0°♌	
evening set	-7969 Sep 09 j 03:11	4°♌18'26	
max. Earth dist.	-7969 Sep 24 j 10:28	6°♌06'15	11.05310 AU
conjunction	-7969 Sep 25 j 10:43	6°♌13'25	2°25'18
minimum elong	-7969 Sep 25 j 10:44	6°♌13'25	2°25'46
morning rise	-7969 Oct 11 j 19:15	8°♌08'47	
	-7968 Jan 03 j 08:45	15°♌	
retrograde	-7968 Jan 21 j 24:00	15°♌16'48	
	-7968 Feb 09 j 18:09	15°℞♌	
opposition	-7968 Apr 01 j 22:38	11°♌57'55	2°53'33
min. Earth dist.	-7968 Apr 02 j 20:00	11°♌53'58	8.99061 AU
direct	-7968 Jun 11 j 06:51	8°♌39'25	
	-7968 Sep 13 j 04:50	15°♌	
evening set	-7968 Sep 19 j 12:08	15°♌43'55	
conjunction	-7968 Oct 05 j 21:21	17°♌41'04	2°17'06
minimum elong	-7968 Oct 05 j 21:24	17°♌41'04	2°17'30
max. Earth dist.	-7968 Oct 04 j 20:43	17°♌33'40	10.91959 AU
morning rise	-7968 Oct 22 j 08:44	19°♌38'55	
retrograde	-7967 Feb 02 j 13:00	26°♌57'54	
opposition	-7967 Apr 14 j 10:36	23°♌37'14	2°40'18
min. Earth dist.	-7967 Apr 15 j 07:36	23°♌33'19	8.84588 AU
direct	-7967 Jun 23 j 04:23	20°♌18'05	
evening set	-7967 Oct 01 j 04:39	27°♌29'37	
conjunction	-7967 Oct 17 j 16:53	29°♌29'33	2°02'57
minimum elong	-7967 Oct 17 j 16:57	29°♌29'34	2°03'17
max. Earth dist.	-7967 Oct 16 j 18:19	29°♌22'40	10.76643 AU
	-7967 Oct 21 j 20:45	0°♍	
morning rise	-7967 Nov 03 j 08:05	1°♍30'29	
retrograde	-7966 Feb 15 j 14:50	9°♍01'50	
opposition	-7966 Apr 27 j 06:57	5°♍39'11	2°19'40
min. Earth dist.	-7966 Apr 28 j 01:34	5°♍35'40	8.68464 AU
direct	-7966 Jul 05 j 09:19	2°♍19'11	
evening set	-7966 Oct 13 j 07:04	9°♍39'02	
conjunction	-7966 Oct 29 j 23:22	11°♍42'18	1°42'54
minimum elong	-7966 Oct 29 j 23:25	11°♍42'19	1°43'08
max. Earth dist.	-7966 Oct 29 j 03:38	11°♍36'11	10.60022 AU
morning rise	-7966 Nov 15 j 19:23	13°♍46'52	
retrograde	-7965 Mar 01 j 04:46	21°♍31'30	
opposition	-7965 May 10 j 12:14	18°♍06'47	1°51'47
min. Earth dist.	-7965 May 11 j 03:30	18°♍03'50	8.51409 AU
direct	-7965 Jul 17 j 20:16	14°♍45'43	
evening set	-7965 Oct 25 j 21:07	22°♍15'06	
conjunction	-7965 Nov 11 j 18:12	24°♍22'06	1°17'18
minimum elong	-7965 Nov 11 j 18:16	24°♍22'07	1°17'24
max. Earth dist.	-7965 Nov 11 j 01:36	24°♍16'51	10.42857 AU
morning rise	-7965 Nov 28 j 19:54	26°♍30'39	
	-7965 Dec 28 j 20:32	0°♎	
retrograde	-7964 Mar 14 j 04:50	4°♎29'06	
opposition	-7964 May 23 j 03:03	1°♎02'17	1°17'12
min. Earth dist.	-7964 May 23 j 14:35	1°♎00'02	8.34235 AU
	-7964 Jun 05 j 14:30	30°℞♍	
direct	-7964 Jul 29 j 17:48	27°♍40'00	
	-7964 Sep 19 j 09:00	0°♎	
evening set	-7964 Nov 07 j 00:18	5°♎19'52	
conjunction	-7964 Nov 24 j 02:40	7°♎30'49	0°46'52
minimum elong	-7964 Nov 24 j 02:42	7°♎30'50	0°46'51
max. Earth dist.	-7964 Nov 23 j 14:04	7°♎26'46	10.25993 AU
morning rise	-7964 Dec 11 j 10:26	9°♎43'33	
retrograde	-7963 Mar 28 j 16:21	17°♎55'41	
opposition	-7963 Jun 06 j 03:16	14°♎26'53	0°37'03
min. Earth dist.	-7963 Jun 06 j 10:45	14°♎25'24	8.17844 AU
direct	-7963 Aug 12 j 02:03	11°♎03'15	
evening set	-7963 Nov 20 j 17:56	18°♎54'11	
conjunction	-7963 Dec 08 j 01:53	21°♎09'06	0°12'53
minimum elong	-7963 Dec 08 j 01:53	21°♎09'06	0°12'44
behind sun begin	-7963 Dec 07 j 21:22	21°♎07'38	
behind sun end	-7963 Dec 08 j 06:25	21°♎10'34	
max. Earth dist.	-7963 Dec 07 j 18:53	21°♎06'49	10.10349 AU
morning rise	-7963 Dec 25 j 15:37	23°♎25'54	
	-7962 Feb 24 j 23:15	0°♏	
retrograde	-7962 Apr 12 j 14:11	1°♏50'43	
desc. node	-7962 Apr 24 j 08:29	1°♏43'23	
	-7962 May 30 j 01:33	30°℞♎	
opposition	-7962 Jun 20 j 12:09	28°♎20'11	-0°06'48
min. Earth dist.	-7962 Jun 20 j 15:01	28°♎19'36	8.03180 AU
direct	-7962 Aug 25 j 20:43	24°♎55'08	
	-7962 Nov 11 j 05:36	0°♏	
evening set	-7962 Dec 05 j 02:24	2°♏57'12	
conjunction	-7962 Dec 22 j 15:48	5°♏15'46	-0°22'58
minimum elong	-7962 Dec 22 j 15:47	5°♏15'45	0°23'14

Attention, astronomical year style is used: The year -7962 in astronomical counting style is the year 7963 BCE in historical counting style.

max. Earth dist.	-7962 Dec 22 j 15:26	5°♏15'39	9.96851 AU
morning rise	-7961 Jan 09 j 10:54	7°♏36'13	
	-7961 Mar 21 j 23:14	15°♏	
retrograde	-7961 Apr 27 j 20:11	16°♏11'41	
	-7961 Jun 04 j 00:23	15°℞♏	
opposition	-7961 Jul 05 j 04:25	12°♏39'47	-0°51'43
min. Earth dist.	-7961 Jul 05 j 02:01	12°♏40'17	7.91145 AU
direct	-7961 Sep 09 j 02:15	9°♏13'22	
	-7961 Nov 30 j 20:24	15°♏	
evening set	-7961 Dec 20 j 01:05	17°♏25'52	
conjunction	-7960 Jan 06 j 19:15	19°♏47'28	-0°58'13
minimum elong	-7960 Jan 06 j 19:11	19°♏47'26	0°58'35
max. Earth dist.	-7960 Jan 07 j 01:54	19°♏49'41	9.86371 AU
morning rise	-7960 Jan 24 j 18:35	22°♏10'47	
	-7960 Apr 10 j 18:05	0°♐	
retrograde	-7960 May 12 j 07:05	0°♐53'51	
	-7960 Jun 12 j 23:45	30°℞♏	
opposition	-7960 Jul 19 j 02:04	27°♏21'03	-1°34'28
min. Earth dist.	-7960 Jul 18 j 18:17	27°♏22'40	7.82550 AU
direct	-7960 Sep 22 j 17:16	23°♏53'20	
	-7960 Dec 16 j 23:10	0°♐	
evening set	-7959 Jan 03 j 11:55	2°♐14'40	
conjunction	-7959 Jan 21 j 09:53	4°♐38'25	-1°30'18
minimum elong	-7959 Jan 21 j 09:49	4°♐38'23	1°30'46
max. Earth dist.	-7959 Jan 21 j 23:22	4°♐42'57	9.79661 AU
morning rise	-7959 Feb 08 j 12:11	7°♐03'35	
retrograde	-7959 May 27 j 19:45	15°♐50'13	
opposition	-7959 Aug 03 j 02:36	12°♐17'02	-2°11'34
min. Earth dist.	-7959 Aug 02 j 13:55	12°♐19'42	7.78019 AU
direct	-7959 Oct 07 j 15:07	8°♐48'12	
evening set	-7958 Jan 19 j 07:29	17°♐15'49	
conjunction	-7958 Feb 06 j 08:11	19°♐40'39	-1°56'39
minimum elong	-7958 Feb 06 j 08:07	19°♐40'37	1°57'09
max. Earth dist.	-7958 Feb 07 j 03:33	19°♐47'10	9.77230 AU
morning rise	-7958 Feb 24 j 12:05	22°♐06'30	
	-7958 May 12 j 16:36	0°♑	
retrograde	-7958 Jun 12 j 06:34	0°♑52'03	
	-7958 Jul 12 j 23:13	30°℞♐	
min. Earth dist.	-7958 Aug 17 j 10:41	27°♐22'34	7.77880 AU
opposition	-7958 Aug 18 j 03:10	27°♐19'05	-2°39'51
direct	-7958 Oct 22 j 17:47	23°♐49'21	
	-7957 Jan 17 j 00:38	0°♑	
evening set	-7957 Feb 04 j 07:21	2°♑19'58	
conjunction	-7957 Feb 22 j 09:35	4°♑44'44	-2°15'05
minimum elong	-7957 Feb 22 j 09:32	4°♑44'43	2°15'37
max. Earth dist.	-7957 Feb 23 j 09:16	4°♑52'41	9.79264 AU
morning rise	-7957 Mar 12 j 13:42	7°♑10'03	
retrograde	-7957 Jun 27 j 11:28	15°♑49'49	
min. Earth dist.	-7957 Sep 01 j 05:50	12°♑21'37	7.82142 AU
opposition	-7957 Sep 02 j 00:36	12°♑17'39	-2°57'04
direct	-7957 Nov 06 j 22:06	8°♑47'20	
evening set	-7956 Feb 20 j 06:11	17°♑17'14	
conjunction	-7956 Mar 09 j 08:57	19°♑40'54	-2°24'18
minimum elong	-7956 Mar 09 j 08:56	19°♑40'53	2°24'49
max. Earth dist.	-7956 Mar 10 j 11:11	19°♑49'37	9.85625 AU
morning rise	-7956 Mar 27 j 12:14	22°♑04'37	
	-7956 Jun 16 j 14:33	0°♒	
retrograde	-7956 Jul 11 j 07:40	0°♒34'27	
	-7956 Aug 05 j 00:28	30°℞♑	
opposition	-7956 Sep 15 j 16:24	27°♑03'36	-3°02'11
min. Earth dist.	-7956 Sep 14 j 20:36	27°♑07'46	7.90493 AU
direct	-7956 Nov 21 j 01:35	23°♑33'06	
	-7955 Feb 19 j 05:10	0°♒	
evening set	-7955 Mar 06 j 23:05	1°♒58'33	
conjunction	-7955 Mar 25 j 01:34	4°♒20'15	-2°23'58
minimum elong	-7955 Mar 25 j 01:35	4°♒20'16	2°24'27
max. Earth dist.	-7955 Mar 26 j 04:31	4°♒29'06	9.95846 AU
morning rise	-7955 Apr 12 j 03:14	6°♒41'33	
retrograde	-7955 Jul 25 j 16:14	14°♒58'18	
min. Earth dist.	-7955 Sep 29 j 04:36	11°♒33'18	8.02328 AU
opposition	-7955 Sep 30 j 00:16	11°♒29'12	-2°55'31
direct	-7955 Dec 06 j 01:33	7°♒58'55	
	-7954 Mar 11 j 23:51	15°♒	
evening set	-7954 Mar 22 j 06:24	16°♒16'50	
conjunction	-7954 Apr 09 j 07:49	18°♒35'54	-2°14'43
minimum elong	-7954 Apr 09 j 07:52	18°♒35'55	2°15'07
max. Earth dist.	-7954 Apr 10 j 09:36	18°♒44'13	10.09193 AU
morning rise	-7954 Apr 27 j 07:10	20°♒54'10	
retrograde	-7954 Aug 08 j 10:38	28°♒55'59	
opposition	-7954 Oct 13 j 22:44	25°♒28'55	-2°38'29
min. Earth dist.	-7954 Oct 13 j 03:58	25°♒32'47	8.16839 AU
direct	-7954 Dec 20 j 18:15	21°♒59'16	
	-7953 Apr 05 j 01:38	0°♓	
evening set	-7953 Apr 06 j 01:16	0°♓07'20	
conjunction	-7953 Apr 24 j 00:55	2°♓23'19	-1°57'53
minimum elong	-7953 Apr 24 j 00:58	2°♓23'20	1°58'11
max. Earth dist.	-7953 Apr 25 j 00:18	2°♓30'44	10.24784 AU
morning rise	-7953 May 11 j 21:20	4°♓38'10	
retrograde	-7953 Aug 21 j 17:03	12°♓24'33	
opposition	-7953 Oct 27 j 11:20	8°♓59'38	-2°13'10
min. Earth dist.	-7953 Oct 26 j 17:53	9°♓03'10	8.33120 AU
direct	-7952 Jan 04 j 01:19	5°♓30'57	
evening set	-7952 Apr 19 j 06:03	13°♓27'46	
conjunction	-7952 May 07 j 03:18	15°♓40'27	-1°35'11
minimum elong	-7952 May 07 j 03:21	15°♓40'28	1°35'22
max. Earth dist.	-7952 May 07 j 23:49	15°♓46'50	10.41670 AU
morning rise	-7952 May 24 j 20:17	17°♓51'44	
retrograde	-7952 Sep 02 j 13:11	25°♓23'11	
opposition	-7952 Nov 08 j 13:58	22°♓00'24	-1°41'54
min. Earth dist.	-7952 Nov 07 j 23:00	22°♓03'23	8.50231 AU
direct	-7951 Jan 16 j 20:55	18°♓32'56	
evening set	-7951 May 02 j 20:57	26°♓18'05	
conjunction	-7951 May 20 j 15:06	28°♓27'23	-1°08'26
minimum elong	-7951 May 20 j 15:09	28°♓27'24	1°08'30
max. Earth dist.	-7951 May 21 j 07:49	28°♓32'30	10.58906 AU
	-7951 Jun 02 j 07:16	0°♈	
morning rise	-7951 Jun 07 j 04:11	0°♈35'07	
retrograde	-7951 Sep 14 j 21:06	7°♈52'50	
opposition	-7951 Nov 21 j 07:11	4°♈32'08	-1°06'57
min. Earth dist.	-7951 Nov 20 j 19:58	4°♈34'19	8.67274 AU
direct	-7950 Jan 30 j 07:04	1°♈05'58	
evening set	-7950 May 15 j 22:24	8°♈39'49	
conjunction	-7950 Jun 02 j 12:45	10°♈45'46	-0°39'21
minimum elong	-7950 Jun 02 j 12:47	10°♈45'47	0°39'18
max. Earth dist.	-7950 Jun 03 j 00:28	10°♈49'17	10.75622 AU
morning rise	-7950 Jun 19 j 21:42	12°♈50'07	
retrograde	-7950 Sep 26 j 19:16	19°♈55'56	
opposition	-7950 Dec 03 j 16:09	16°♈37'04	-0°30'20
min. Earth dist.	-7950 Dec 03 j 09:28	16°♈38'21	8.83428 AU
direct	-7949 Feb 12 j 07:38	13°♈12'16	
evening set	-7949 May 28 j 11:14	20°♈35'39	
conjunction	-7949 Jun 14 j 21:17	22°♈38'27	-0°09'27

Attention, astronomical year style is used: The year -7949 in astronomical counting style is the year 7950 BCE in historical counting style.

minimum elong	-7949 Jun 14 j 21:18	22°♈38'27	0°09'18
behind sun begin	-7949 Jun 14 j 15:19	22°♈36'42	
behind sun end	-7949 Jun 15 j 03:17	22°♈40'12	
max. Earth dist.	-7949 Jun 15 j 02:48	22°♈40'03	10.91037 AU
morning rise	-7949 Jul 02 j 02:03	24°♈39'41	
	-7949 Aug 25 j 18:39	0°♉	
retrograde	-7949 Oct 08 j 09:49	1°♉35'43	
asc. node	-7949 Oct 12 j 02:05	1°♉35'01	
	-7949 Nov 22 j 06:10	30°℞♈	
opposition	-7949 Dec 15 j 17:48	28°♈18'24	0°06'17
min. Earth dist.	-7949 Dec 15 j 15:10	28°♈18'54	8.97955 AU
direct	-7948 Feb 24 j 22:00	24°♈54'58	
	-7948 May 20 j 00:04	0°♉	
evening set	-7948 Jun 08 j 13:11	2°♉09'09	
conjunction	-7948 Jun 25 j 18:50	4°♉09'08	0°20'07
minimum elong	-7948 Jun 25 j 18:49	4°♉09'08	0°20'21
max. Earth dist.	-7948 Jun 25 j 18:46	4°♉09'07	11.04479 AU
morning rise	-7948 Jul 12 j 19:20	6°♉07'39	
retrograde	-7948 Oct 18 j 18:00	12°♉56'11	
opposition	-7948 Dec 26 j 13:24	9°♉40'07	0°41'34
min. Earth dist.	-7948 Dec 26 j 14:35	9°♉39'54	9.10249 AU
direct	-7947 Mar 08 j 04:57	6°♉17'57	
evening set	-7947 Jun 20 j 05:59	13°♉24'33	
	-7947 Jul 04 j 02:54	15°♉	
conjunction	-7947 Jul 07 j 07:15	15°♉22'06	0°48'10
minimum elong	-7947 Jul 07 j 07:13	15°♉22'05	0°48'29
max. Earth dist.	-7947 Jul 07 j 02:46	15°♉20'48	11.15451 AU
morning rise	-7947 Jul 24 j 03:27	17°♉18'16	
retrograde	-7947 Oct 30 j 00:30	24°♉01'37	
opposition	-7946 Jan 07 j 05:00	20°♉46'28	1°14'26
min. Earth dist.	-7946 Jan 07 j 10:17	20°♉45'30	9.19918 AU
direct	-7946 Mar 20 j 03:18	17°♉25'28	
evening set	-7946 Jul 01 j 15:22	24°♉26'00	
conjunction	-7946 Jul 18 j 12:13	26°♉21'32	1°13'55
minimum elong	-7946 Jul 18 j 12:11	26°♉21'31	1°14'19
max. Earth dist.	-7946 Jul 18 j 03:18	26°♉18'58	11.23655 AU
morning rise	-7946 Aug 04 j 04:28	28°♉15'50	
	-7946 Aug 20 j 02:02	0°♊	
retrograde	-7946 Nov 10 j 02:23	4°♊56'09	
opposition	-7945 Jan 18 j 17:57	1°♊41'34	1°44'01
min. Earth dist.	-7945 Jan 19 j 03:45	1°♊39'46	9.26728 AU
	-7945 Feb 12 j 00:32	30°℞♉	
direct	-7945 Mar 31 j 19:15	28°♉21'31	
	-7945 May 17 j 12:35	0°♊	
evening set	-7945 Jul 12 j 19:09	5°♊17'35	
conjunction	-7945 Jul 29 j 11:49	7°♊11'32	1°36'41
minimum elong	-7945 Jul 29 j 11:46	7°♊11'31	1°37'09
max. Earth dist.	-7945 Jul 28 j 21:56	7°♊07'33	11.28909 AU
morning rise	-7945 Aug 15 j 00:44	9°♊04'29	
retrograde	-7945 Nov 21 j 04:31	15°♊43'51	
opposition	-7944 Jan 30 j 05:18	12°♊29'25	2°09'36
min. Earth dist.	-7944 Jan 30 j 18:40	12°♊26'59	9.30515 AU
direct	-7944 Apr 11 j 09:17	9°♊10'04	
evening set	-7944 Jul 22 j 18:45	16°♊03'15	
conjunction	-7944 Aug 08 j 07:55	17°♊56'08	1°55'52
minimum elong	-7944 Aug 08 j 07:52	17°♊56'08	1°56'23
max. Earth dist.	-7944 Aug 07 j 14:39	17°♊51'12	11.31087 AU
morning rise	-7944 Aug 24 j 18:03	19°♊48'14	
retrograde	-7944 Dec 01 j 07:41	26°♊28'41	
opposition	-7943 Feb 09 j 16:41	23°♊13'59	2°30'32
min. Earth dist.	-7943 Feb 10 j 08:15	23°♊11'10	9.31169 AU
direct	-7943 Apr 22 j 19:15	19°♊55'10	
evening set	-7943 Aug 02 j 16:01	26°♊47'01	
max. Earth dist.	-7943 Aug 18 j 07:12	28°♊33'52	11.30124 AU
conjunction	-7943 Aug 19 j 02:23	28°♊39'22	2°10'56
minimum elong	-7943 Aug 19 j 02:20	28°♊39'21	2°11'28
	-7943 Aug 30 j 20:02	0°♋	
morning rise	-7943 Sep 04 j 10:18	0°♋31'09	
retrograde	-7943 Dec 12 j 15:13	7°♋14'38	
opposition	-7942 Feb 21 j 05:37	3°♋59'22	2°46'18
min. Earth dist.	-7942 Feb 21 j 23:28	3°♋56'08	9.28681 AU
direct	-7942 May 04 j 03:53	0°♋40'51	
evening set	-7942 Aug 13 j 12:47	7°♋32'53	
conjunction	-7942 Aug 29 j 21:01	9°♋25'17	2°21'27
minimum elong	-7942 Aug 29 j 21:00	9°♋25'16	2°21'59
max. Earth dist.	-7942 Aug 28 j 23:12	9°♋18'59	11.26074 AU
morning rise	-7942 Sep 15 j 03:48	11°♋17'22	
retrograde	-7942 Dec 24 j 00:52	18°♋05'44	
opposition	-7941 Mar 04 j 21:24	14°♋49'35	2°56'20
min. Earth dist.	-7941 Mar 05 j 17:36	14°♋45'55	9.23147 AU
direct	-7941 May 15 j 10:52	11°♋31'08	
evening set	-7941 Aug 24 j 10:38	18°♋24'56	
conjunction	-7941 Sep 09 j 17:44	20°♋17'57	2°26'59
minimum elong	-7941 Sep 09 j 17:44	20°♋17'57	2°27'29
max. Earth dist.	-7941 Sep 08 j 17:47	20°♋10'59	11.19071 AU
morning rise	-7941 Sep 26 j 00:33	22°♋10'57	
retrograde	-7940 Jan 04 j 17:10	29°♋06'05	
opposition	-7940 Mar 15 j 17:16	25°♋48'45	3°00'10
min. Earth dist.	-7940 Mar 16 j 14:43	25°♋44'49	9.14725 AU
direct	-7940 May 25 j 22:09	22°♋30'09	
evening set	-7940 Sep 03 j 11:27	29°♋27'17	
	-7940 Sep 08 j 04:33	0°♌	
conjunction	-7940 Sep 19 j 18:38	1°♌21'33	2°27'09
minimum elong	-7940 Sep 19 j 18:39	1°♌21'33	2°27'38
max. Earth dist.	-7940 Sep 18 j 18:43	1°♌14'30	11.09313 AU
morning rise	-7940 Oct 06 j 02:22	3°♌16'04	
retrograde	-7939 Jan 15 j 18:14	10°♌19'43	
opposition	-7939 Mar 27 j 18:30	7°♌00'56	2°57'19
min. Earth dist.	-7939 Mar 28 j 15:28	6°♌57'05	9.03663 AU
direct	-7939 Jun 06 j 11:30	3°♌42'04	
evening set	-7939 Sep 14 j 17:08	10°♌43'59	
max. Earth dist.	-7939 Sep 30 j 02:18	12°♌33'11	10.97106 AU
conjunction	-7939 Oct 01 j 01:36	12°♌40'08	2°21'39
minimum elong	-7939 Oct 01 j 01:38	12°♌40'09	2°22'05
morning rise	-7939 Oct 17 j 11:25	14°♌36'49	
	-7939 Oct 20 j 19:10	15°♌	
retrograde	-7938 Jan 28 j 04:01	21°♌50'40	
opposition	-7938 Apr 09 j 02:43	18°♌30'15	2°47'25
min. Earth dist.	-7938 Apr 09 j 22:36	18°♌26'32	8.90328 AU
direct	-7938 Jun 18 j 04:40	15°♌10'54	
evening set	-7938 Sep 26 j 05:38	22°♌19'04	
conjunction	-7938 Oct 12 j 16:24	24°♌17'43	2°10'16
minimum elong	-7938 Oct 12 j 16:27	24°♌17'44	2°10'38
max. Earth dist.	-7938 Oct 11 j 17:31	24°♌10'47	10.82865 AU
morning rise	-7938 Oct 29 j 05:40	26°♌17'12	
	-7938 Dec 02 j 01:52	0°♍	
retrograde	-7937 Feb 10 j 00:27	3°♍42'41	
opposition	-7937 Apr 21 j 18:51	0°♍20'29	2°30'11
min. Earth dist.	-7937 Apr 22 j 13:36	0°♍16'57	8.75190 AU
	-7937 Apr 26 j 07:36	30°℞♌	
direct	-7937 Jun 30 j 04:21	27°♌00'28	
	-7937 Aug 29 j 19:58	0°♍	
evening set	-7937 Oct 08 j 03:04	4°♍16'20	

Attention, astronomical year style is used: The year -7937 in astronomical counting style is the year 7938 BCE in historical counting style.

conjunction	-7937 Oct 24 j 17:14	6°♑18'01	1°52'55
minimum elong	-7937 Oct 24 j 17:18	6°♑18'02	1°53'11
max. Earth dist.	-7937 Oct 23 j 19:54	6°♑11'27	10.67114 AU
morning rise	-7937 Nov 10 j 11:02	8°♑20'53	
retrograde	-7936 Feb 23 j 06:57	15°♑59'10	
opposition	-7936 May 03 j 19:34	12°♑35'06	2°05'36
min. Earth dist.	-7936 May 04 j 12:27	12°♑31'52	8.58847 AU
direct	-7936 Jul 11 j 11:32	9°♑14'15	
evening set	-7936 Oct 19 j 11:10	16°♑39'06	

conjunction	-7936 Nov 05 j 05:50	18°♑44'20	1°29'49
minimum elong	-7936 Nov 05 j 05:54	18°♑44'21	1°29'58
max. Earth dist.	-7936 Nov 04 j 12:07	18°♑38'47	10.50495 AU
morning rise	-7936 Nov 22 j 04:53	20°♑51'00	
retrograde	-7935 Mar 08 j 00:55	28°♑42'56	
opposition	-7935 May 17 j 05:50	25°♑16'57	1°33'59
min. Earth dist.	-7935 May 17 j 19:07	25°♑14'22	8.42022 AU
direct	-7935 Jul 24 j 05:43	21°♑55'09	
evening set	-7935 Nov 01 j 07:44	29°♑30'02	
	-7935 Nov 05 j 07:24	0°♎	

conjunction	-7935 Nov 18 j 07:39	1°♎39'08	1°01'28
minimum elong	-7935 Nov 18 j 07:41	1°♎39'09	1°01'31
max. Earth dist.	-7935 Nov 17 j 18:49	1°♎35'02	10.33778 AU
morning rise	-7935 Dec 05 j 12:28	3°♎49'53	
retrograde	-7934 Mar 22 j 08:25	11°♎55'41	
opposition	-7934 May 31 j 01:40	8°♎27'51	0°56'11
min. Earth dist.	-7934 May 31 j 10:14	8°♎26'09	8.25548 AU
direct	-7934 Aug 06 j 08:19	5°♎05'00	
evening set	-7934 Nov 14 j 18:35	12°♎50'41	

conjunction	-7934 Dec 02 j 00:02	15°♎03'45	0°28'55
minimum elong	-7934 Dec 02 j 00:04	15°♎03'45	0°28'50
max. Earth dist.	-7934 Dec 01 j 16:25	15°♎01'17	10.17832 AU
morning rise	-7934 Dec 19 j 10:50	17°♎18'38	
retrograde	-7933 Apr 06 j 02:53	25°♎37'39	
opposition	-7933 Jun 14 j 06:30	22°♎08'10	0°13'45
min. Earth dist.	-7933 Jun 14 j 09:58	22°♎07'28	8.10338 AU
direct	-7933 Aug 19 j 20:46	18°♎44'09	
desc. node	-7933 Oct 09 j 12:50	21°♎03'11	
evening set	-7933 Nov 28 j 20:21	26°♎40'59	

conjunction	-7933 Dec 16 j 07:12	28°♎57'50	-0°06'24
minimum elong	-7933 Dec 16 j 07:11	28°♎57'49	0°06'37
behind sun begin	-7933 Dec 16 j 00:25	28°♎55'37	
behind sun end	-7933 Dec 16 j 13:58	29°♎00'02	
max. Earth dist.	-7933 Dec 16 j 05:03	28°♎57'09	10.03585 AU
	-7933 Dec 24 j 04:21	0°♏	
morning rise	-7932 Jan 02 j 23:42	1°♏16'34	
retrograde	-7932 Apr 20 j 06:22	9°♏47'16	
opposition	-7932 Jun 27 j 19:41	6°♏16'24	-0°31'03
min. Earth dist.	-7932 Jun 27 j 18:14	6°♏16'42	7.97324 AU
direct	-7932 Sep 01 j 20:40	2°♏51'09	
evening set	-7932 Dec 12 j 12:36	10°♏58'44	

conjunction	-7932 Dec 30 j 04:25	13°♏18'53	-0°42'11
minimum elong	-7932 Dec 30 j 04:23	13°♏18'52	0°42'30
max. Earth dist.	-7932 Dec 30 j 08:23	13°♏20'12	9.91947 AU
	-7931 Jan 11 j 21:11	15°♏	
morning rise	-7931 Jan 17 j 01:49	15°♏40'51	
retrograde	-7931 May 05 j 15:54	24°♏20'35	
opposition	-7931 Jul 12 j 15:21	20°♏48'43	-1°15'12
min. Earth dist.	-7931 Jul 12 j 09:14	20°♏49'59	7.87366 AU
direct	-7931 Sep 16 j 07:47	17°♏22'13	
evening set	-7931 Dec 27 j 18:15	25°♏39'20	

conjunction	-7930 Jan 14 j 14:18	28°♏02'01	-1°16'03
minimum elong	-7930 Jan 14 j 14:14	28°♏02'00	1°16'28
max. Earth dist.	-7930 Jan 15 j 00:23	28°♏05'24	9.83703 AU
	-7930 Jan 29 j 07:35	0°♐	
morning rise	-7930 Feb 01 j 15:24	0°♐26'18	
retrograde	-7930 May 21 j 03:43	9°♐11'21	
opposition	-7930 Jul 27 j 14:53	5°♐38'56	-1°55'17
min. Earth dist.	-7930 Jul 27 j 04:40	5°♐41'04	7.81117 AU
direct	-7930 Oct 01 j 03:08	2°♐11'13	
evening set	-7929 Jan 12 j 10:16	10°♐35'47	

conjunction	-7929 Jan 30 j 09:34	13°♐00'01	-1°45'19
minimum elong	-7929 Jan 30 j 09:29	12°♐59'59	1°45'48
max. Earth dist.	-7929 Jan 31 j 01:05	13°♐05'14	9.79376 AU
morning rise	-7929 Feb 17 j 12:54	15°♐25'30	
retrograde	-7929 Jun 05 j 15:11	24°♐11'34	
opposition	-7929 Aug 11 j 15:45	20°♐39'06	-2°27'56
min. Earth dist.	-7929 Aug 11 j 02:07	20°♐41'58	7.78921 AU
direct	-7929 Oct 16 j 04:25	17°♐10'21	
evening set	-7928 Jan 28 j 08:29	25°♐39'31	

conjunction	-7928 Feb 15 j 09:54	28°♐04'15	-2°07'36
minimum elong	-7928 Feb 15 j 09:50	28°♐04'14	2°08'08
max. Earth dist.	-7928 Feb 16 j 05:59	28°♐11'00	9.79186 AU
	-7928 Feb 29 j 19:51	0°♑	
morning rise	-7928 Mar 04 j 14:04	0°♑29'47	
retrograde	-7928 Jun 19 j 22:58	9°♑12'27	
opposition	-7928 Aug 25 j 15:01	5°♑40'30	-2°50'27
min. Earth dist.	-7928 Aug 24 j 22:26	5°♑44'00	7.80872 AU
direct	-7928 Oct 30 j 08:51	2°♑10'59	
evening set	-7927 Feb 12 j 08:24	10°♑41'26	

conjunction	-7927 Mar 02 j 10:59	13°♑05'38	-2°21'09
minimum elong	-7927 Mar 02 j 10:58	13°♑05'38	2°21'41
max. Earth dist.	-7927 Mar 03 j 10:39	13°♑13'33	9.83180 AU
morning rise	-7927 Mar 20 j 14:49	15°♑30'09	
retrograde	-7927 Jul 04 j 23:34	24°♑05'03	
opposition	-7927 Sep 09 j 09:52	20°♑34'06	-3°01'12
min. Earth dist.	-7927 Sep 08 j 15:08	20°♑38'02	7.86916 AU
direct	-7927 Nov 14 j 13:26	17°♑04'07	
evening set	-7926 Feb 28 j 05:07	25°♑32'10	

conjunction	-7926 Mar 18 j 07:57	27°♑54'52	-2°25'12
minimum elong	-7926 Mar 18 j 07:57	27°♑54'53	2°25'42
max. Earth dist.	-7926 Mar 19 j 09:42	28°♑03'23	9.91177 AU
	-7926 Apr 03 j 04:45	0°♒	
morning rise	-7926 Apr 05 j 10:27	0°♒17'24	
retrograde	-7926 Jul 19 j 14:25	8°♒40'50	
opposition	-7926 Sep 23 j 22:07	5°♒11'16	-2°59'51
min. Earth dist.	-7926 Sep 23 j 02:29	5°♒15'22	7.96700 AU
direct	-7926 Nov 29 j 15:33	1°♒41'11	
evening set	-7925 Mar 15 j 17:56	10°♒03'16	

conjunction	-7925 Apr 02 j 20:06	12°♒23'42	-2°19'55
minimum elong	-7925 Apr 02 j 20:08	12°♒23'43	2°20'21
max. Earth dist.	-7925 Apr 03 j 22:14	12°♒32'13	10.02653 AU
morning rise	-7925 Apr 20 j 20:29	14°♒43'29	
	-7925 Apr 23 j 00:29	15°♒	
retrograde	-7925 Aug 02 j 16:28	22°♒52'54	
min. Earth dist.	-7925 Oct 07 j 06:33	19°♒29'00	8.09571 AU
opposition	-7925 Oct 08 j 01:41	19°♒25'03	-2°47'22
direct	-7925 Dec 14 j 11:35	15°♒55'12	
evening set	-7924 Mar 29 j 19:24	24°♒08'30	

conjunction	-7924 Apr 16 j 20:08	26°♒26'06	-2°06'21
minimum elong	-7924 Apr 16 j 20:11	26°♒26'07	2°06'43
max. Earth dist.	-7924 Apr 17 j 20:50	26°♒34'00	10.16836 AU
morning rise	-7924 May 04 j 17:53	28°♒42'40	

Attention, astronomical year style is used: The year -7924 in astronomical counting style is the year 7925 BCE in historical counting style.

	-7924 May 15 j 04:58	0°♓	
retrograde	-7924 Aug 15 j 05:52	6°♓36'48	
opposition	-7924 Oct 20 j 19:29	3°♓10'51	-2°25'34
min. Earth dist.	-7924 Oct 20 j 02:21	3°♓14'20	8.24691 AU
	-7924 Dec 09 j 09:22	30°℞♒	
direct	-7924 Dec 27 j 23:16	29°♒41'35	
	-7923 Jan 15 j 14:56	0°♓	
evening set	-7923 Apr 13 j 07:28	7°♓44'15	
conjunction	-7923 May 01 j 06:01	9°♓58'39	-1°46'06
minimum elong	-7923 May 01 j 06:05	9°♓58'40	1°46'20
max. Earth dist.	-7923 May 02 j 03:20	10°♓05'21	10.32805 AU
morning rise	-7923 May 19 j 00:42	12°♓11'45	
retrograde	-7923 Aug 28 j 06:41	19°♓50'33	
opposition	-7923 Nov 03 j 03:13	16°♓26'34	-1°56'42
min. Earth dist.	-7923 Nov 02 j 12:39	16°♓29'30	8.41128 AU
direct	-7922 Jan 11 j 01:31	12°♓58'11	
evening set	-7922 Apr 27 j 05:21	20°♓49'21	
conjunction	-7922 May 15 j 00:59	23°♓00'23	-1°20'57
minimum elong	-7922 May 15 j 01:02	23°♓00'24	1°21'04
max. Earth dist.	-7922 May 15 j 17:48	23°♓05'34	10.49613 AU
morning rise	-7922 Jun 01 j 16:06	25°♓09'56	
	-7922 Jul 16 j 19:01	0°♈	
retrograde	-7922 Sep 09 j 18:27	2°♈34'20	
	-7922 Nov 05 j 21:12	30°℞♓	
opposition	-7922 Nov 16 j 01:06	29°♓12'18	-1°23'08
min. Earth dist.	-7922 Nov 15 j 13:09	29°♓14'40	8.57968 AU
direct	-7921 Jan 24 j 18:31	25°♓45'02	
	-7921 Apr 09 j 21:31	0°♈	
evening set	-7921 May 10 j 13:08	3°♈24'39	
conjunction	-7921 May 28 j 05:19	5°♈32'18	-0°52'42
minimum elong	-7921 May 28 j 05:22	5°♈32'19	0°52'42
max. Earth dist.	-7921 May 28 j 17:49	5°♈36'05	10.66377 AU
morning rise	-7921 Jun 14 j 16:28	7°♈38'24	
retrograde	-7921 Sep 21 j 21:25	14°♈50'01	
opposition	-7921 Nov 28 j 13:57	11°♈29'48	-0°47'00
min. Earth dist.	-7921 Nov 28 j 04:51	11°♈31'34	8.74384 AU
direct	-7920 Feb 06 j 23:55	8°♈03'48	
evening set	-7920 May 22 j 07:38	15°♈32'26	
conjunction	-7920 Jun 08 j 19:58	17°♈36'52	-0°22'58
minimum elong	-7920 Jun 08 j 19:59	17°♈36'52	0°22'51
max. Earth dist.	-7920 Jun 09 j 04:26	17°♈39'23	10.82312 AU
morning rise	-7920 Jun 26 j 02:49	19°♈39'42	
retrograde	-7920 Oct 02 j 16:28	26°♈40'31	
opposition	-7920 Dec 09 j 18:56	23°♈21'55	-0°10'09
min. Earth dist.	-7920 Dec 09 j 13:43	23°♈22'55	8.89648 AU
direct	-7919 Feb 18 j 17:53	19°♈57'16	
asc. node	-7919 Mar 24 j 04:26	20°♈50'26	
evening set	-7919 Jun 03 j 14:39	27°♈16'02	
conjunction	-7919 Jun 20 j 22:36	29°♈17'28	0°06'58
minimum elong	-7919 Jun 20 j 22:36	29°♈17'28	0°07'11
behind sun begin	-7919 Jun 20 j 16:04	29°♈15'34	
behind sun end	-7919 Jun 21 j 05:08	29°♈19'22	
max. Earth dist.	-7919 Jun 21 j 02:24	29°♈18'34	10.96748 AU
	-7919 Jun 26 j 23:15	0°♉	
morning rise	-7919 Jul 08 j 01:03	1°♉17'22	
retrograde	-7919 Oct 14 j 03:07	8°♉09'30	
opposition	-7919 Dec 21 j 17:22	4°♉52'20	0°25'55
min. Earth dist.	-7919 Dec 21 j 16:40	4°♉52'28	9.03166 AU
direct	-7918 Mar 03 j 03:41	1°♉29'01	
evening set	-7918 Jun 15 j 11:37	8°♉39'19	
conjunction	-7918 Jul 02 j 14:55	10°♉38'04	0°35'46
minimum elong	-7918 Jul 02 j 14:54	10°♉38'04	0°36'03
max. Earth dist.	-7918 Jul 02 j 13:09	10°♉37'33	11.09165 AU
morning rise	-7918 Jul 19 j 13:09	12°♉35'23	
	-7918 Aug 10 j 17:12	15°♉	
retrograde	-7918 Oct 25 j 09:25	19°♉21'07	
opposition	-7917 Jan 02 j 10:46	16°♉05'05	1°00'01
min. Earth dist.	-7917 Jan 02 j 13:59	16°♉04'29	9.14464 AU
	-7917 Jan 17 j 06:59	15°℞♉	
direct	-7917 Mar 15 j 06:05	12°♉43'03	
	-7917 May 09 j 13:26	15°♉	
evening set	-7917 Jun 26 j 23:58	19°♉46'22	
conjunction	-7917 Jul 13 j 22:46	21°♉42'51	1°02'39
minimum elong	-7917 Jul 13 j 22:44	21°♉42'50	1°03'01
max. Earth dist.	-7917 Jul 13 j 16:16	21°♉40'58	11.19149 AU
morning rise	-7917 Jul 30 j 17:01	23°♉38'02	
	-7917 Oct 16 j 18:37	0°♊	
retrograde	-7917 Nov 05 j 12:08	0°♊19'34	
	-7917 Nov 25 j 12:16	30°℞♉	
opposition	-7916 Jan 14 j 00:25	27°♉04'21	1°31'10
min. Earth dist.	-7916 Jan 14 j 06:34	27°♉03'13	9.23158 AU
direct	-7916 Mar 26 j 01:47	23°♉43'31	
	-7916 Jul 01 j 00:31	0°♊	
evening set	-7916 Jul 07 j 05:49	0°♊41'27	
conjunction	-7916 Jul 24 j 00:29	2°♊36'05	1°26'50
minimum elong	-7916 Jul 24 j 00:27	2°♊36'05	1°27'17
max. Earth dist.	-7916 Jul 23 j 14:47	2°♊33'18	11.26374 AU
morning rise	-7916 Aug 09 j 14:54	4°♊29'37	
retrograde	-7916 Nov 15 j 16:02	11°♊09'04	
opposition	-7915 Jan 24 j 11:50	7°♊54'22	1°58'36
min. Earth dist.	-7915 Jan 24 j 21:27	7°♊52'37	9.28970 AU
direct	-7915 Apr 06 j 16:17	4°♊34'35	
evening set	-7915 Jul 18 j 06:55	11°♊28'45	
conjunction	-7915 Aug 03 j 21:44	13°♊22'02	1°47'41
minimum elong	-7915 Aug 03 j 21:41	13°♊22'01	1°48'11
max. Earth dist.	-7915 Aug 03 j 08:18	13°♊18'12	11.30616 AU
morning rise	-7915 Aug 20 j 08:55	15°♊14'25	
retrograde	-7915 Nov 26 j 17:13	21°♊53'50	
opposition	-7914 Feb 04 j 22:54	18°♊39'20	2°21'40
min. Earth dist.	-7914 Feb 05 j 12:20	18°♊36'53	9.31730 AU
direct	-7914 Apr 18 j 00:58	15°♊20'23	
evening set	-7914 Jul 29 j 04:50	22°♊12'21	
conjunction	-7914 Aug 14 j 16:15	24°♊04'47	2°04'38
minimum elong	-7914 Aug 14 j 16:12	24°♊04'46	2°05'10
max. Earth dist.	-7914 Aug 13 j 22:48	23°♊59'47	11.31764 AU
morning rise	-7914 Aug 31 j 01:07	25°♊56'34	
	-7914 Oct 10 j 07:57	0°♋	
retrograde	-7914 Dec 07 j 21:47	2°♋38'01	
	-7913 Feb 07 j 22:40	30°℞♊	
opposition	-7913 Feb 16 j 10:44	29°♊23'18	2°39'46
min. Earth dist.	-7913 Feb 17 j 03:03	29°♊20'20	9.31354 AU
direct	-7913 Apr 29 j 10:56	26°♊04'57	
	-7913 Jul 12 j 05:34	0°♋	
evening set	-7913 Aug 09 j 01:23	2°♋56'18	
conjunction	-7913 Aug 25 j 10:22	4°♋48'27	2°17'14
minimum elong	-7913 Aug 25 j 10:20	4°♋48'26	2°17'46
max. Earth dist.	-7913 Aug 24 j 14:43	4°♋42'48	11.29779 AU
morning rise	-7913 Sep 10 j 17:37	6°♋40'11	
retrograde	-7913 Dec 19 j 06:01	13°♋25'31	
opposition	-7912 Feb 28 j 00:27	10°♋10'14	2°52'23
min. Earth dist.	-7912 Feb 28 j 18:18	10°♋07'00	9.27832 AU
direct	-7912 May 09 j 18:37	6°♋52'16	
evening set	-7912 Aug 18 j 22:14	13°♋44'30	

Attention, astronomical year style is used: The year -7912 in astronomical counting style is the year 7913 BCE in historical counting style.

max. Earth dist.	-7912 Sep 03 j 08:48	15°♋30'54	11.24695 AU
conjunction	-7912 Sep 04 j 05:46	15°♋36'58	2°25'02
minimum elong	-7912 Sep 04 j 05:45	15°♋36'58	2°25'33
morning rise	-7912 Sep 20 j 12:15	17°♋29'15	
retrograde	-7912 Dec 29 j 20:26	24°♋20'20	
opposition	-7911 Mar 10 j 17:52	21°♋04'09	2°59'02
min. Earth dist.	-7911 Mar 11 j 13:00	21°♋00'40	9.21242 AU
direct	-7911 May 21 j 03:32	17°♋46'18	
evening set	-7911 Aug 29 j 21:09	24°♋40'55	
max. Earth dist.	-7911 Sep 14 j 05:13	26°♋27'36	11.16641 AU
conjunction	-7911 Sep 15 j 04:05	26°♋34'17	2°27'39
minimum elong	-7911 Sep 15 j 04:06	26°♋34'17	2°28'09
morning rise	-7911 Oct 01 j 11:02	28°♋27'45	
	-7911 Oct 15 j 05:28	0°♌	
retrograde	-7910 Jan 10 j 16:42	5°♌26'20	
opposition	-7910 Mar 22 j 16:13	2°♌08'56	2°59'14
min. Earth dist.	-7910 Mar 23 j 12:57	2°♌05'08	9.11753 AU
	-7910 Apr 23 j 15:56	30°℞♋	
direct	-7910 Jun 01 j 13:55	28°♋50'55	
	-7910 Jul 09 j 11:34	0°♌	
evening set	-7910 Sep 10 j 00:01	5°♌49'26	
max. Earth dist.	-7910 Sep 25 j 07:18	7°♌37'11	11.05827 AU
conjunction	-7910 Sep 26 j 07:29	7°♌44'20	2°24'46
minimum elong	-7910 Sep 26 j 07:30	7°♌44'20	2°25'14
morning rise	-7910 Oct 12 j 16:10	9°♌39'39	
	-7910 Dec 06 j 01:15	15°♌	
retrograde	-7909 Jan 22 j 19:36	16°♌47'26	
	-7909 Mar 13 j 08:31	15°℞♌	
opposition	-7909 Apr 03 j 20:26	13°♌28'30	2°52'36
min. Earth dist.	-7909 Apr 04 j 17:46	13°♌24'34	8.99609 AU
direct	-7909 Jun 13 j 04:53	10°♌10'03	
	-7909 Sep 01 j 12:44	15°♌	
evening set	-7909 Sep 21 j 08:32	17°♌14'04	
conjunction	-7909 Oct 07 j 17:55	19°♌11'09	2°16'06
minimum elong	-7909 Oct 07 j 17:58	19°♌11'10	2°16'30
max. Earth dist.	-7909 Oct 06 j 18:18	19°♌04'04	10.92531 AU
morning rise	-7909 Oct 24 j 05:22	21°♌08'56	
retrograde	-7908 Feb 04 j 10:43	28°♌27'37	
opposition	-7908 Apr 15 j 07:55	25°♌06'56	2°38'47
min. Earth dist.	-7908 Apr 16 j 04:12	25°♌03'08	8.85167 AU
direct	-7908 Jun 24 j 02:33	21°♌47'51	
evening set	-7908 Oct 02 j 00:50	28°♌58'51	
	-7908 Oct 10 j 12:09	0°♍	
conjunction	-7908 Oct 18 j 13:14	0°♍58'44	2°01'32
minimum elong	-7908 Oct 18 j 13:18	0°♍58'45	2°01'51
max. Earth dist.	-7908 Oct 17 j 15:15	0°♍52'02	10.77208 AU
morning rise	-7908 Nov 04 j 04:29	2°♍59'37	
retrograde	-7907 Feb 16 j 12:08	10°♍30'37	
opposition	-7907 Apr 28 j 03:47	7°♍07'59	2°17'41
min. Earth dist.	-7907 Apr 28 j 21:45	7°♍04'35	8.69006 AU
direct	-7907 Jul 06 j 05:03	3°♍48'05	
evening set	-7907 Oct 14 j 03:03	11°♍07'28	
conjunction	-7907 Oct 30 j 19:24	13°♍10'41	1°41'07
minimum elong	-7907 Oct 30 j 19:27	13°♍10'42	1°41'20
max. Earth dist.	-7907 Oct 29 j 23:07	13°♍04'24	10.60535 AU
morning rise	-7907 Nov 16 j 15:37	15°♍15'12	
retrograde	-7906 Mar 02 j 00:44	22°♍59'33	
opposition	-7906 May 11 j 08:52	19°♍34'52	1°49'23
min. Earth dist.	-7906 May 12 j 00:18	19°♍31'54	8.51876 AU
direct	-7906 Jul 18 j 16:36	16°♍13'53	
evening set	-7906 Oct 26 j 16:55	23°♍42'53	
conjunction	-7906 Nov 12 j 14:03	25°♍49'51	1°15'14
minimum elong	-7906 Nov 12 j 14:07	25°♍49'52	1°15'19
max. Earth dist.	-7906 Nov 11 j 20:39	25°♍44'22	10.43287 AU
morning rise	-7906 Nov 29 j 16:02	27°♍58'24	
	-7906 Dec 16 j 13:08	0°♎	
retrograde	-7905 Mar 16 j 01:17	5°♎56'37	
opposition	-7905 May 24 j 23:27	2°♎29'51	1°14'29
min. Earth dist.	-7905 May 25 j 11:43	2°♎27'27	8.34605 AU
	-7905 Jun 29 j 21:34	30°℞♍	
direct	-7905 Jul 31 j 13:53	29°♍07'37	
	-7905 Aug 31 j 15:29	0°♎	
evening set	-7905 Nov 08 j 20:06	6°♎47'14	
conjunction	-7905 Nov 25 j 22:39	8°♎58'10	0°44'36
minimum elong	-7905 Nov 25 j 22:41	8°♎58'11	0°44'34
max. Earth dist.	-7905 Nov 25 j 09:47	8°♎54'03	10.26312 AU
morning rise	-7905 Dec 13 j 06:38	11°♎10'54	
retrograde	-7904 Mar 29 j 12:23	19°♎22'52	
opposition	-7904 Jun 06 j 23:19	15°♎54'08	0°34'09
min. Earth dist.	-7904 Jun 07 j 07:29	15°♎52'31	8.18097 AU
direct	-7904 Aug 12 j 22:04	12°♎30'32	
evening set	-7904 Nov 21 j 13:46	20°♎21'22	
conjunction	-7904 Dec 08 j 21:57	22°♎36'17	0°10'32
minimum elong	-7904 Dec 08 j 21:58	22°♎36'17	0°10'23
behind sun begin	-7904 Dec 08 j 16:18	22°♎34'27	
behind sun end	-7904 Dec 09 j 03:38	22°♎38'07	
max. Earth dist.	-7904 Dec 08 j 15:17	22°♎34'08	10.10540 AU
morning rise	-7904 Dec 26 j 11:46	24°♎53'05	
	-7903 Feb 08 j 23:52	0°♏	
desc. node	-7903 Mar 31 j 10:14	3°♏08'51	
retrograde	-7903 Apr 13 j 09:50	3°♏17'50	
	-7903 Jun 18 j 17:33	30°℞♎	
opposition	-7903 Jun 21 j 08:03	29°♎47'21	-0°09'44
min. Earth dist.	-7903 Jun 21 j 10:59	29°♎46'46	8.03307 AU
direct	-7903 Aug 26 j 17:16	26°♎22'22	
	-7903 Oct 29 j 20:26	0°♏	
evening set	-7903 Dec 05 j 22:19	4°♏24'26	
conjunction	-7903 Dec 23 j 11:56	6°♏43'02	-0°25'16
minimum elong	-7903 Dec 23 j 11:54	6°♏43'01	0°25'32
max. Earth dist.	-7903 Dec 23 j 11:58	6°♏43'03	9.96913 AU
morning rise	-7902 Jan 10 j 07:01	9°♏03'29	
	-7902 Mar 03 j 18:24	15°♏	
retrograde	-7902 Apr 28 j 15:44	17°♏39'01	
	-7902 Jun 25 j 04:25	15°℞♏	
opposition	-7902 Jul 06 j 00:16	14°♏07'08	-0°54'30
min. Earth dist.	-7902 Jul 05 j 21:33	14°♏07'42	7.91152 AU
direct	-7902 Sep 09 j 22:29	10°♏40'45	
	-7902 Nov 19 j 03:14	15°♏	
evening set	-7902 Dec 20 j 21:23	18°♏53'23	
conjunction	-7901 Jan 07 j 15:40	21°♏15'03	-1°00'19
minimum elong	-7901 Jan 07 j 15:37	21°♏15'01	1°00'42
max. Earth dist.	-7901 Jan 07 j 22:19	21°♏17'16	9.86319 AU
morning rise	-7901 Jan 25 j 15:01	23°♏38'24	
	-7901 Mar 23 j 00:44	0°♐	
retrograde	-7901 May 14 j 03:14	2°♐21'34	
	-7901 Jul 06 j 09:08	30°℞♏	
opposition	-7901 Jul 20 j 21:52	28°♏48'47	-1°36'56
min. Earth dist.	-7901 Jul 20 j 13:57	28°♏50'26	7.82449 AU
direct	-7901 Sep 24 j 11:58	25°♏21'05	
	-7901 Dec 06 j 11:13	0°♐	
evening set	-7900 Jan 05 j 08:36	3°♐42'41	
conjunction	-7900 Jan 23 j 06:36	6°♐06'30	-1°32'06
minimum elong	-7900 Jan 23 j 06:32	6°♐06'28	1°32'33

Attention, astronomical year style is used: The year -7900 in astronomical counting style is the year 7901 BCE in historical counting style.

max. Earth dist.	-7900 Jan	23 j 19:34	6°♐10'51	9.79509 AU
morning rise	-7900 Feb	10 j 08:56	8°♐31'43	
retrograde	-7900 May	28 j 17:08	17°♐18'30	
opposition	-7900 Aug	03 j 22:36	13°♐45'21	-2°13'33
min. Earth dist.	-7900 Aug	03 j 10:11	13°♐47'57	7.77826 AU
direct	-7900 Oct	08 j 09:45	10°♐16'28	
evening set	-7899 Jan	20 j 04:25	18°♐44'28	
conjunction	-7899 Feb	07 j 05:03	21°♐09'20	-1°57'59
minimum elong	-7899 Feb	07 j 04:59	21°♐09'19	1°58'29
max. Earth dist.	-7899 Feb	07 j 23:30	21°♐15'33	9.76999 AU
morning rise	-7899 Feb	25 j 09:00	23°♐35'15	
	-7899 Apr	22 j 18:48	0°♑	
retrograde	-7899 Jun	13 j 04:29	2°♑20'58	
	-7899 Aug	04 j 11:33	30°℞♐	
opposition	-7899 Aug	18 j 23:21	28°♐48'02	-2°41'13
min. Earth dist.	-7899 Aug	18 j 07:39	28°♐51'21	7.77622 AU
direct	-7899 Oct	23 j 13:20	25°♐18'13	
	-7898 Jan	05 j 07:53	0°♑	