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 11 j 20:03	6°♐40'00		
conjunction	-8400 Jan 28 j 09:30	7°♐36'16	-0°48'51	
minimum elong	-8400 Jan 28 j 09:29	7°♐36'16	0°49'20	
max. Earth dist.	-8400 Jan 28 j 16:31	7°♐37'16	20.82905 AU	
morning rise	-8400 Feb 14 j 01:57	8°♐32'59		
retrograde	-8400 May 18 j 15:01	11°♐41'39		
opposition	-8400 Aug 03 j 00:59	9°♐41'19	-0°55'31	
min. Earth dist.	-8400 Aug 02 j 20:14	9°♐41'49	18.80281 AU	
direct	-8400 Oct 16 j 13:19	7°♐43'04		
evening set	-8399 Jan 15 j 07:37	10°♐45'01		
conjunction	-8399 Jan 31 j 21:55	11°♐41'32	-0°51'21	
minimum elong	-8399 Jan 31 j 21:54	11°♐41'32	0°51'51	
max. Earth dist.	-8399 Feb 01 j 02:15	11°♐42'10	20.77565 AU	
morning rise	-8399 Feb 17 j 15:02	12°♐38'28		
retrograde	-8399 May 23 j 02:26	15°♐47'31		
opposition	-8399 Aug 07 j 07:23	13°♐47'02	-0°58'10	
min. Earth dist.	-8399 Aug 07 j 03:57	13°♐47'23	18.74794 AU	
direct	-8399 Oct 20 j 21:14	11°♐48'23		
evening set	-8398 Jan 19 j 19:46	14°♐51'16		
conjunction	-8398 Feb 05 j 10:51	15°♐48'03	-0°53'36	
minimum elong	-8398 Feb 05 j 10:51	15°♐48'02	0°54'08	
max. Earth dist.	-8398 Feb 05 j 13:14	15°♐48'23	20.71933 AU	
morning rise	-8398 Feb 22 j 04:25	16°♐45'12		
retrograde	-8398 May 27 j 12:12	19°♐54'37		
opposition	-8398 Aug 11 j 14:16	17°♐54'02	-1°00'32	
min. Earth dist.	-8398 Aug 11 j 13:26	17°♐54'07	18.69049 AU	
direct	-8398 Oct 25 j 03:41	15°♐55'00		
evening set	-8397 Jan 24 j 08:46	18°♐58'53		
conjunction	-8397 Feb 10 j 00:35	19°♐55'55	-0°55'36	
minimum elong	-8397 Feb 10 j 00:35	19°♐55'55	0°56'07	
max. Earth dist.	-8397 Feb 10 j 00:15	19°♐55'52	20.66094 AU	
morning rise	-8397 Feb 26 j 18:44	20°♐53'18		
retrograde	-8397 Jun 01 j 00:54	24°♐03'09		
opposition	-8397 Aug 15 j 21:25	22°♐02'27	-1°02'37	
min. Earth dist.	-8397 Aug 15 j 21:55	22°♐02'24	18.63117 AU	
direct	-8397 Oct 29 j 13:07	20°♐03'02		
evening set	-8396 Jan 28 j 22:36	23°♐07'59		
conjunction	-8396 Feb 14 j 15:13	24°♐05'18	-0°57'19	
minimum elong	-8396 Feb 14 j 15:13	24°♐05'18	0°57'52	
max. Earth dist.	-8396 Feb 14 j 13:01	24°♐04'59	20.60066 AU	
morning rise	-8396 Mar 02 j 09:42	25°♐02'54		
retrograde	-8396 Jun 04 j 11:33	28°♐13'14		
opposition	-8396 Aug 19 j 05:14	26°♐12'27	-1°04'22	
min. Earth dist.	-8396 Aug 19 j 08:18	26°♐12'07	18.57009 AU	
direct	-8396 Nov 01 j 20:36	24°♐12'40		
evening set	-8395 Feb 01 j 13:23	27°♐18'45		
conjunction	-8395 Feb 18 j 06:35	28°♐16'20	-0°58'44	
minimum elong	-8395 Feb 18 j 06:35	28°♐16'20	0°59'17	
max. Earth dist.	-8395 Feb 18 j 01:25	28°♐15'35	20.53892 AU	
morning rise	-8395 Mar 07 j 01:32	29°♐14'11		
	-8395 Mar 20 j 23:42	0°♑		
retrograde	-8395 Jun 09 j 01:26	2°♑25'00		
opposition	-8395 Aug 23 j 13:28	0°♑24'09	-1°05'48	
min. Earth dist.	-8395 Aug 23 j 18:01	0°♑23'40	18.50765 AU	
	-8395 Sep 02 j 03:47	30°℞♐		
direct	-8395 Nov 06 j 07:14	28°♐24'00		
	-8394 Jan 08 j 03:42	0°♑		
evening set	-8394 Feb 06 j 05:01	1°♑31'17		
conjunction	-8394 Feb 22 j 22:53	2°♑29'09	-0°59'52	
minimum elong	-8394 Feb 22 j 22:53	2°♑29'09	1°00'25	
max. Earth dist.	-8394 Feb 22 j 16:01	2°♑28'10	20.47571 AU	
morning rise	-8394 Mar 11 j 17:58	3°♑27'14		
retrograde	-8394 Jun 13 j 13:46	6°♑38'35		
opposition	-8394 Aug 27 j 22:27	4°♑37'42	-1°06'54	
min. Earth dist.	-8394 Aug 28 j 05:31	4°♑36'57	18.44376 AU	
direct	-8394 Nov 10 j 16:24	2°♑37'12		
evening set	-8393 Feb 10 j 21:33	5°♑45'43		
conjunction	-8393 Feb 27 j 15:53	6°♑43'52	-1°00'40	
minimum elong	-8393 Feb 27 j 15:53	6°♑43'52	1°01'13	
max. Earth dist.	-8393 Feb 27 j 05:45	6°♑42'24	20.41118 AU	
morning rise	-8393 Mar 16 j 11:21	7°♑42'12		
retrograde	-8393 Jun 18 j 04:45	10°♑54'07		
opposition	-8393 Sep 01 j 08:02	8°♑53'10	-1°07'38	
min. Earth dist.	-8393 Sep 01 j 16:53	8°♑52'14	18.37846 AU	
direct	-8393 Nov 15 j 04:04	6°♑52'18		
evening set	-8392 Feb 15 j 15:12	10°♑02'06		
conjunction	-8392 Mar 03 j 10:06	11°♑00'33	-1°01'08	
minimum elong	-8392 Mar 03 j 10:06	11°♑00'33	1°01'40	
max. Earth dist.	-8392 Mar 02 j 22:10	10°♑58'49	20.34492 AU	
morning rise	-8392 Mar 20 j 05:31	11°♑59'08		
retrograde	-8392 Jun 21 j 19:04	15°♑11'35		
opposition	-8392 Sep 04 j 18:20	13°♑10'36	-1°07'59	
min. Earth dist.	-8392 Sep 05 j 05:46	13°♑09'23	18.31135 AU	
direct	-8392 Nov 18 j 15:16	11°♑09'21		
evening set	-8391 Feb 19 j 09:54	14°♑20'28		
conjunction	-8391 Mar 08 j 05:04	15°♑19'12	-1°01'16	
minimum elong	-8391 Mar 08 j 05:04	15°♑19'12	1°01'49	
max. Earth dist.	-8391 Mar 07 j 13:26	15°♑16'55	20.27699 AU	
morning rise	-8391 Mar 25 j 00:41	16°♑18'01		
retrograde	-8391 Jun 26 j 11:14	19°♑31'02		
opposition	-8391 Sep 09 j 05:27	17°♑29'59	-1°07'57	
min. Earth dist.	-8391 Sep 09 j 18:50	17°♑28'33	18.24263 AU	
direct	-8391 Nov 23 j 04:28	15°♑28'18		
evening set	-8390 Feb 24 j 05:12	18°♑40'45		
max. Earth dist.	-8390 Mar 12 j 07:35	19°♑37'14	20.20733 AU	
conjunction	-8390 Mar 13 j 00:49	19°♑39'46	-1°01'02	
minimum elong	-8390 Mar 13 j 00:49	19°♑39'46	1°01'34	
morning rise	-8390 Mar 29 j 20:13	20°♑38'49		
retrograde	-8390 Jul 01 j 03:03	23°♑52'24		
opposition	-8390 Sep 13 j 17:21	21°♑51'16	-1°07'32	
min. Earth dist.	-8390 Sep 14 j 09:00	21°♑49'35	18.17224 AU	
direct	-8390 Nov 27 j 17:41	19°♑49'09		
evening set	-8389 Mar 01 j 01:38	23°♑02'55		
conjunction	-8389 Mar 17 j 21:21	24°♑02'13	-1°00'27	
minimum elong	-8389 Mar 17 j 21:21	24°♑02'13	1°00'59	
max. Earth dist.	-8389 Mar 17 j 00:26	23°♑59'07	20.13642 AU	
morning rise	-8389 Apr 03 j 16:49	25°♑01'30		
retrograde	-8389 Jul 05 j 20:08	28°♑15'38		
opposition	-8389 Sep 18 j 05:48	26°♑14'22	-1°06'42	
min. Earth dist.	-8389 Sep 18 j 23:30	26°♑12'28	18.10094 AU	
direct	-8389 Dec 02 j 08:32	24°♑11'47		
evening set	-8388 Mar 04 j 22:49	27°♑26'55		
conjunction	-8388 Mar 21 j 18:52	28°♑26'30	-0°59'31	
minimum elong	-8388 Mar 21 j 18:52	28°♑26'30	1°00'02	
max. Earth dist.	-8388 Mar 20 j 20:39	28°♑23'12	20.06474 AU	
morning rise	-8388 Apr 07 j 13:59	29°♑26'00		
	-8388 Apr 17 j 12:54	0°♒		

Attention, astronomical year style is used: The year -8388 in astronomical counting style is the year 8389 BCE in historical counting style.

retrograde	-8388 Jul 09 j 13:18	2°♒40'40	
opposition	-8388 Sep 21 j 19:09	0°♒39'17	-1°05'29
min. Earth dist.	-8388 Sep 22 j 14:43	0°♒37'11	18.02914 AU
	-8388 Oct 07 j 06:25	30°℞♑	
direct	-8388 Dec 05 j 23:39	28°♑36'15	
	-8387 Feb 02 j 02:57	0°♒	
evening set	-8387 Mar 09 j 20:51	1°♒52'43	
conjunction	-8387 Mar 26 j 16:46	2°♒52'33	-0°58'13
minimum elong	-8387 Mar 26 j 16:47	2°♒52'33	0°58'42
max. Earth dist.	-8387 Mar 25 j 15:14	2°♒48'44	19.99310 AU
morning rise	-8387 Apr 12 j 11:44	3°♒52'17	
retrograde	-8387 Jul 14 j 07:21	7°♒07'30	
opposition	-8387 Sep 26 j 09:12	5°♒05'59	-1°03'52
min. Earth dist.	-8387 Sep 27 j 06:38	5°♒03'40	17.95792 AU
direct	-8387 Dec 10 j 16:07	3°♒02'28	
evening set	-8386 Mar 14 j 19:26	6°♒20'16	
conjunction	-8386 Mar 31 j 15:30	7°♒20'23	-0°56'33
minimum elong	-8386 Mar 31 j 15:31	7°♒20'23	0°57'03
max. Earth dist.	-8386 Mar 30 j 13:16	7°♒16'27	19.92235 AU
morning rise	-8386 Apr 17 j 09:57	8°♒20'19	
retrograde	-8386 Jul 19 j 01:43	11°♒36'05	
opposition	-8386 Sep 30 j 23:59	9°♒34'26	-1°01'52
min. Earth dist.	-8386 Oct 01 j 22:41	9°♒31'59	17.88792 AU
direct	-8386 Dec 15 j 08:55	7°♒30'29	
evening set	-8385 Mar 19 j 18:51	10°♒49'37	
max. Earth dist.	-8385 Apr 04 j 09:36	11°♒45'35	19.85331 AU
conjunction	-8385 Apr 05 j 14:41	11°♒49'58	-0°54'33
minimum elong	-8385 Apr 05 j 14:41	11°♒49'58	0°54'59
morning rise	-8385 Apr 22 j 08:50	12°♒50'07	
	-8385 Jun 03 j 06:33	15°♒	
retrograde	-8385 Jul 23 j 20:51	16°♒06'26	
	-8385 Sep 13 j 13:38	15°℞♒	
opposition	-8385 Oct 05 j 15:40	14°♒04'39	-0°59'28
min. Earth dist.	-8385 Oct 06 j 16:05	14°♒02'00	17.82009 AU
direct	-8385 Dec 20 j 02:35	12°♒00'16	
	-8384 Mar 17 j 20:45	15°♒	
evening set	-8384 Mar 23 j 18:54	15°♒20'44	
max. Earth dist.	-8384 Apr 08 j 09:15	16°♒16'53	19.78669 AU
conjunction	-8384 Apr 09 j 14:39	16°♒21'20	-0°52'12
minimum elong	-8384 Apr 09 j 14:40	16°♒21'20	0°52'37
morning rise	-8384 Apr 26 j 08:08	17°♒21'39	
retrograde	-8384 Jul 27 j 16:37	20°♒38'31	
opposition	-8384 Oct 09 j 08:06	18°♒36'40	-0°56'41
min. Earth dist.	-8384 Oct 10 j 09:10	18°♒33'56	17.75492 AU
direct	-8384 Dec 23 j 21:39	16°♒31'54	
evening set	-8383 Mar 28 j 19:47	19°♒53'40	
max. Earth dist.	-8383 Apr 13 j 07:27	20°♒49'40	19.72315 AU
conjunction	-8383 Apr 14 j 15:04	20°♒54'29	-0°49'30
minimum elong	-8383 Apr 14 j 15:04	20°♒54'29	0°49'54
morning rise	-8383 May 01 j 07:59	21°♒54'59	
retrograde	-8383 Aug 01 j 12:19	25°♒12'24	
opposition	-8383 Oct 14 j 01:35	23°♒10'29	-0°53'31
min. Earth dist.	-8383 Oct 15 j 04:09	23°♒07'35	17.69328 AU
direct	-8383 Dec 28 j 16:23	21°♒05'23	
evening set	-8382 Apr 02 j 20:57	24°♒28'25	
max. Earth dist.	-8382 Apr 18 j 08:20	25°♒24'37	19.66337 AU
conjunction	-8382 Apr 19 j 15:57	25°♒29'27	-0°46'29
minimum elong	-8382 Apr 19 j 15:58	25°♒29'27	0°46'51
morning rise	-8382 May 06 j 08:07	26°♒30'06	
retrograde	-8382 Aug 06 j 09:35	29°♒48'04	
opposition	-8382 Oct 18 j 19:48	27°♒46'07	-0°50'00
min. Earth dist.	-8382 Oct 19 j 22:30	27°♒43'13	17.63537 AU
direct	-8381 Jan 02 j 13:56	25°♒40'46	
evening set	-8381 Apr 07 j 23:06	29°♒05'02	
max. Earth dist.	-8381 Apr 23 j 08:18	0°♓01'09	19.60744 AU
	-8381 Apr 23 j 00:49	0°♓	
conjunction	-8381 Apr 24 j 17:31	0°♓06'15	-0°43'09
minimum elong	-8381 Apr 24 j 17:31	0°♓06'15	0°43'30
morning rise	-8381 May 11 j 08:55	1°♓07'02	
retrograde	-8381 Aug 11 j 05:48	4°♓25'33	
opposition	-8381 Oct 23 j 14:54	2°♓23'37	-0°46'08
min. Earth dist.	-8381 Oct 24 j 19:14	2°♓20'31	17.58152 AU
direct	-8380 Jan 07 j 10:27	0°♓18'00	
evening set	-8380 Apr 12 j 01:49	3°♓43'29	
max. Earth dist.	-8380 Apr 27 j 10:18	4°♓39'43	19.55561 AU
conjunction	-8380 Apr 28 j 19:40	4°♓44'52	-0°39'31
minimum elong	-8380 Apr 28 j 19:41	4°♓44'52	0°39'48
morning rise	-8380 May 15 j 10:12	5°♓45'47	
retrograde	-8380 Aug 15 j 04:26	9°♓04'48	
opposition	-8380 Oct 27 j 10:57	7°♓02'54	-0°41'56
min. Earth dist.	-8380 Oct 28 j 15:08	6°♓59'49	17.53158 AU
direct	-8379 Jan 11 j 10:34	4°♓57'06	
evening set	-8379 Apr 17 j 05:00	8°♓23'42	
max. Earth dist.	-8379 May 02 j 11:52	9°♓19'55	19.50755 AU
conjunction	-8379 May 03 j 22:06	9°♓25'12	-0°35'35
minimum elong	-8379 May 03 j 22:06	9°♓25'13	0°35'51
morning rise	-8379 May 20 j 11:37	10°♓26'14	
retrograde	-8379 Aug 20 j 01:36	13°♓45'46	
opposition	-8379 Nov 01 j 08:03	11°♓43'53	-0°37'25
min. Earth dist.	-8379 Nov 02 j 13:46	11°♓40'38	17.48553 AU
direct	-8378 Jan 16 j 09:02	9°♓37'54	
evening set	-8378 Apr 22 j 08:43	13°♓05'33	
max. Earth dist.	-8378 May 07 j 14:22	14°♓01'47	19.46340 AU
conjunction	-8378 May 09 j 01:00	14°♓07'10	-0°31'24
minimum elong	-8378 May 09 j 01:00	14°♓07'10	0°31'37
morning rise	-8378 May 25 j 13:34	15°♓08'16	
retrograde	-8378 Aug 25 j 01:32	18°♓28'15	
opposition	-8378 Nov 06 j 05:46	16°♓26'23	-0°32'38
min. Earth dist.	-8378 Nov 07 j 11:01	16°♓23'11	17.44319 AU
direct	-8377 Jan 21 j 11:11	14°♓20'14	
evening set	-8377 Apr 27 j 12:49	17°♓48'49	
max. Earth dist.	-8377 May 12 j 17:26	18°♓45'06	19.42283 AU
conjunction	-8377 May 14 j 04:17	18°♓50'31	-0°26'59
minimum elong	-8377 May 14 j 04:17	18°♓50'31	0°27'09
morning rise	-8377 May 30 j 15:40	19°♓51'41	
retrograde	-8377 Aug 29 j 23:52	23°♓12'04	
opposition	-8377 Nov 11 j 04:35	21°♓10'12	-0°27'35
min. Earth dist.	-8377 Nov 12 j 11:12	21°♓06'52	17.40454 AU
direct	-8376 Jan 26 j 11:19	19°♓03'53	
evening set	-8376 May 01 j 17:13	22°♓33'18	
max. Earth dist.	-8376 May 16 j 20:14	23°♓29'32	19.38614 AU
conjunction	-8376 May 18 j 07:37	23°♓35'04	-0°22'22
minimum elong	-8376 May 18 j 07:37	23°♓35'04	0°22'30
morning rise	-8376 Jun 03 j 17:58	24°♓36'16	
retrograde	-8376 Sep 03 j 00:36	27°♓57'00	
opposition	-8376 Nov 15 j 04:00	25°♓55'07	-0°22'21
min. Earth dist.	-8376 Nov 16 j 09:44	25°♓51'53	17.36979 AU
direct	-8375 Jan 30 j 14:28	23°♓48'39	
evening set	-8375 May 06 j 21:41	27°♓18'46	
max. Earth dist.	-8375 May 22 j 00:35	28°♓15'09	19.35346 AU
conjunction	-8375 May 23 j 11:08	28°♓20'35	-0°17'35

Attention, astronomical year style is used: The year -8375 in astronomical counting style is the year 8376 BCE in historical counting style.

minimum elong	-8375 May 23 j 11:08	28°♓20'35	0°17'40
morning rise	-8375 Jun 08 j 20:09	29°♓21'47	
	-8375 Jun 19 j 11:13	0°♈	
retrograde	-8375 Sep 08 j 00:06	2°♈42'49	
opposition	-8375 Nov 20 j 04:15	0°♈40'54	-0°16'56
min. Earth dist.	-8375 Nov 21 j 10:49	0°♈37'35	17.33937 AU
	-8375 Dec 06 j 02:30	30°℞♓	
direct	-8374 Feb 04 j 15:56	28°♓34'18	
	-8374 Apr 04 j 02:42	0°♈	
evening set	-8374 May 12 j 02:08	2°♈05'00	
max. Earth dist.	-8374 May 27 j 03:28	3°♈01'19	19.32544 AU
conjunction	-8374 May 28 j 14:21	3°♈06'48	-0°12'40
minimum elong	-8374 May 28 j 14:21	3°♈06'48	0°12'43
behind sun begin	-8374 May 28 j 10:10	3°♈06'10	
behind sun end	-8374 May 28 j 18:33	3°♈07'27	
morning rise	-8374 Jun 13 j 22:21	4°♈08'00	
retrograde	-8374 Sep 13 j 00:57	7°♈29'17	
opposition	-8374 Nov 25 j 04:55	5°♈27'20	-0°11'23
min. Earth dist.	-8374 Nov 26 j 10:16	5°♈24'09	17.31374 AU
direct	-8373 Feb 09 j 19:35	3°♈20'36	
evening set	-8373 May 17 j 06:30	6°♈51'46	
max. Earth dist.	-8373 Jun 01 j 08:34	7°♈48'20	19.30236 AU
conjunction	-8373 Jun 02 j 17:42	7°♈53'34	-0°07'41
minimum elong	-8373 Jun 02 j 17:43	7°♈53'34	0°07'40
behind sun begin	-8373 Jun 02 j 11:39	7°♈52'38	
behind sun end	-8373 Jun 02 j 23:46	7°♈54'30	
morning rise	-8373 Jun 19 j 00:17	8°♈54'42	
retrograde	-8373 Sep 18 j 00:45	12°♈16'11	
opposition	-8373 Nov 30 j 06:15	10°♈14'12	-0°05'45
min. Earth dist.	-8373 Dec 01 j 11:45	10°♈11'00	17.29333 AU
direct	-8372 Feb 14 j 22:35	8°♈07'23	
evening set	-8372 May 21 j 10:52	11°♈38'54	
max. Earth dist.	-8372 Jun 05 j 11:35	12°♈35'24	19.28490 AU
conjunction	-8372 Jun 06 j 20:38	12°♈40'37	-0°02'38
minimum elong	-8372 Jun 06 j 20:39	12°♈40'37	0°02'34
behind sun begin	-8372 Jun 06 j 13:58	12°♈39'36	
behind sun end	-8372 Jun 07 j 03:20	12°♈41'39	
morning rise	-8372 Jun 23 j 02:07	13°♈41'43	
retrograde	-8372 Sep 22 j 01:14	17°♈03'21	
opposition	-8372 Dec 04 j 08:05	15°♈01'19	-0°00'05
min. Earth dist.	-8372 Dec 05 j 11:57	14°♈58'18	17.27889 AU
asc. node	-8372 Dec 09 j 13:11	14°♈47'46	
direct	-8371 Feb 19 j 02:50	12°♈54'28	
evening set	-8371 May 26 j 14:36	16°♈26'11	
conjunction	-8371 Jun 11 j 23:15	17°♈27'50	0°02'35
minimum elong	-8371 Jun 11 j 23:16	17°♈27'50	0°02'41
behind sun begin	-8371 Jun 11 j 16:36	17°♈26'48	
behind sun end	-8371 Jun 12 j 05:56	17°♈28'52	
max. Earth dist.	-8371 Jun 10 j 16:53	17°♈23'01	19.27355 AU
morning rise	-8371 Jun 28 j 03:17	18°♈28'49	
retrograde	-8371 Sep 27 j 01:21	21°♈50'35	
opposition	-8371 Dec 09 j 10:27	19°♈48'33	0°05'35
min. Earth dist.	-8371 Dec 10 j 13:29	19°♈45'37	17.27071 AU
direct	-8370 Feb 24 j 07:19	17°♈41'42	
evening set	-8370 May 31 j 18:20	21°♈13'32	
max. Earth dist.	-8370 Jun 15 j 19:42	22°♈10'20	19.26876 AU
conjunction	-8370 Jun 17 j 01:32	22°♈15'03	0°07'39
minimum elong	-8370 Jun 17 j 01:31	22°♈15'03	0°07'48
behind sun begin	-8370 Jun 16 j 19:30	22°♈14'07	
behind sun end	-8370 Jun 17 j 07:32	22°♈15'59	
morning rise	-8370 Jul 03 j 04:24	23°♈15'56	
retrograde	-8370 Oct 02 j 01:10	26°♈37'47	
opposition	-8370 Dec 14 j 12:55	24°♈35'45	0°11'14
min. Earth dist.	-8370 Dec 15 j 14:12	24°♈33'01	17.26938 AU
direct	-8369 Mar 01 j 11:48	22°♈28'58	
evening set	-8369 Jun 05 j 21:34	26°♈00'49	
max. Earth dist.	-8369 Jun 21 j 00:43	26°♈57'56	19.27088 AU
conjunction	-8369 Jun 22 j 03:34	27°♈02'12	0°12'39
minimum elong	-8369 Jun 22 j 03:33	27°♈02'12	0°12'50
behind sun begin	-8369 Jun 21 j 23:25	27°♈01'33	
behind sun end	-8369 Jun 22 j 07:42	27°♈02'50	
morning rise	-8369 Jul 08 j 05:00	28°♈02'56	
	-8369 Aug 12 j 02:00	0°♉	
retrograde	-8369 Oct 07 j 01:35	1°♉24'50	
	-8369 Dec 05 j 02:33	30°℞♈	
opposition	-8369 Dec 19 j 15:59	29°♈22'52	0°16'47
min. Earth dist.	-8369 Dec 20 j 15:37	29°♈20'19	17.27482 AU
direct	-8368 Mar 05 j 17:11	27°♈16'16	
	-8368 May 27 j 17:50	0°♉	
evening set	-8368 Jun 10 j 00:26	0°♉47'57	
max. Earth dist.	-8368 Jun 25 j 03:16	1°♉45'06	19.27983 AU
conjunction	-8368 Jun 26 j 04:56	1°♉49'11	0°17'34
minimum elong	-8368 Jun 26 j 04:55	1°♉49'11	0°17'47
morning rise	-8368 Jul 12 j 05:12	2°♉49'47	
retrograde	-8368 Oct 11 j 01:16	6°♉11'42	
opposition	-8368 Dec 23 j 19:18	4°♉09'49	0°22'14
min. Earth dist.	-8368 Dec 24 j 17:12	4°♉07'28	17.28719 AU
direct	-8367 Mar 10 j 21:34	2°♉03'25	
evening set	-8367 Jun 15 j 02:43	5°♉34'54	
max. Earth dist.	-8367 Jun 30 j 07:21	6°♉32'21	19.29551 AU
conjunction	-8367 Jul 01 j 05:59	6°♉35'56	0°22'22
minimum elong	-8367 Jul 01 j 05:58	6°♉35'56	0°22'39
morning rise	-8367 Jul 17 j 04:56	7°♉36'22	
retrograde	-8367 Oct 16 j 01:51	10°♉58'15	
opposition	-8367 Dec 28 j 22:43	8°♉56'31	0°27'32
min. Earth dist.	-8367 Dec 29 j 18:23	8°♉54'24	17.30588 AU
direct	-8366 Mar 16 j 03:14	6°♉50'23	
evening set	-8366 Jun 20 j 04:33	10°♉21'30	
max. Earth dist.	-8366 Jul 05 j 09:22	11°♉19'00	19.31724 AU
conjunction	-8366 Jul 06 j 06:24	11°♉22'20	0°27'01
minimum elong	-8366 Jul 06 j 06:24	11°♉22'20	0°27'20
morning rise	-8366 Jul 22 j 04:14	12°♉22'35	
	-8366 Sep 11 j 01:59	15°♉	
retrograde	-8366 Oct 21 j 01:14	15°♉44'24	
	-8366 Dec 01 j 13:11	15°℞♉	
opposition	-8365 Jan 03 j 02:26	13°♉42'48	0°32'37
min. Earth dist.	-8365 Jan 03 j 20:40	13°♉40'51	17.33048 AU
direct	-8365 Mar 21 j 06:57	11°♉36'57	
	-8365 Jun 23 j 04:23	15°♉	
evening set	-8365 Jun 25 j 05:48	15°♉07'37	
max. Earth dist.	-8365 Jul 10 j 11:59	16°♉05'19	19.34452 AU
conjunction	-8365 Jul 11 j 06:20	16°♉08'14	0°31'29
minimum elong	-8365 Jul 11 j 06:20	16°♉08'14	0°31'51
morning rise	-8365 Jul 27 j 02:57	17°♉08'17	
retrograde	-8365 Oct 26 j 02:04	20°♉29'58	
opposition	-8364 Jan 08 j 06:10	18°♉28'30	0°37'29
min. Earth dist.	-8364 Jan 08 j 21:43	18°♉26'51	17.36015 AU
direct	-8364 Mar 25 j 12:21	16°♉22'59	
evening set	-8364 Jun 29 j 06:29	19°♉53'03	
conjunction	-8364 Jul 15 j 05:41	20°♉53'25	0°35'43
minimum elong	-8364 Jul 15 j 05:40	20°♉53'25	0°36'06
max. Earth dist.	-8364 Jul 14 j 13:26	20°♉50'50	19.37659 AU
morning rise	-8364 Jul 31 j 01:10	21°♉53'15	

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

retrograde	-8364 Oct 30 j 01:10	25°♉14'46		
opposition	-8363 Jan 12 j 10:05	23°♉13'25	0°42'04	
min. Earth dist.	-8363 Jan 13 j 00:21	23°♉11'54	17.39458 AU	
direct	-8363 Mar 30 j 15:06	21°♉08'13		
evening set	-8363 Jul 04 j 06:19	24°♉37'34		
conjunction	-8363 Jul 20 j 04:14	25°♉37'40	0°39'42	
minimum elong	-8363 Jul 20 j 04:14	25°♉37'40	0°40'06	
max. Earth dist.	-8363 Jul 19 j 14:18	25°♉35'28	19.41316 AU	
morning rise	-8363 Aug 04 j 22:44	26°♉37'17		
retrograde	-8363 Nov 04 j 02:07	29°♉58'33		
opposition	-8362 Jan 17 j 13:40	27°♉57'19	0°46'21	
min. Earth dist.	-8362 Jan 18 j 00:53	27°♉56'08	17.43304 AU	
direct	-8362 Apr 04 j 20:02	25°♉52'25		
evening set	-8362 Jul 09 j 05:29	29°♉20'57		
	-8362 Jul 19 j 14:58	0°♊		
conjunction	-8362 Jul 25 j 02:14	0°♊20'47	0°43'23	
minimum elong	-8362 Jul 25 j 02:13	0°♊20'47	0°43'50	
max. Earth dist.	-8362 Jul 24 j 14:47	0°♊18'58	19.45348 AU	
morning rise	-8362 Aug 09 j 19:39	1°♊20'09		
retrograde	-8362 Nov 08 j 23:57	4°♊41'07		
opposition	-8361 Jan 22 j 17:03	2°♊39'58	0°50'17	
min. Earth dist.	-8361 Jan 23 j 03:08	2°♊38'54	17.47522 AU	
direct	-8361 Apr 09 j 22:06	0°♊35'24		
evening set	-8361 Jul 14 j 03:50	4°♊02'59		
conjunction	-8361 Jul 29 j 23:21	5°♊02'32	0°46'46	
minimum elong	-8361 Jul 29 j 23:21	5°♊02'32	0°47'13	
max. Earth dist.	-8361 Jul 29 j 13:52	5°♊01'02	19.49750 AU	
morning rise	-8361 Aug 14 j 15:58	6°♊01'39		
retrograde	-8361 Nov 14 j 00:17	9°♊22'16		
opposition	-8360 Jan 27 j 20:08	7°♊21'10	0°53'52	
min. Earth dist.	-8360 Jan 28 j 02:51	7°♊20'28	17.52088 AU	
direct	-8360 Apr 14 j 02:29	5°♊16'55		
evening set	-8360 Jul 18 j 01:02	8°♊43'28		
conjunction	-8360 Aug 02 j 19:34	9°♊42'43	0°49'49	
minimum elong	-8360 Aug 02 j 19:34	9°♊42'43	0°50'19	
max. Earth dist.	-8360 Aug 02 j 13:13	9°♊41'43	19.54483 AU	
morning rise	-8360 Aug 18 j 11:16	10°♊41'34		
retrograde	-8360 Nov 17 j 20:36	14°♊01'47		
opposition	-8359 Jan 31 j 22:56	12°♊00'44	0°57'04	
min. Earth dist.	-8359 Feb 01 j 04:18	12°♊00'10	17.56993 AU	
direct	-8359 Apr 19 j 04:24	9°♊56'48		
evening set	-8359 Jul 22 j 21:26	13°♊22'13		
conjunction	-8359 Aug 07 j 14:52	14°♊21'09	0°52'31	
minimum elong	-8359 Aug 07 j 14:52	14°♊21'09	0°53'02	
max. Earth dist.	-8359 Aug 07 j 10:22	14°♊20'27	19.59565 AU	
morning rise	-8359 Aug 23 j 06:00	15°♊19'45		
retrograde	-8359 Nov 22 j 19:07	18°♊39'31		
opposition	-8358 Feb 06 j 00:52	16°♊38'29	0°59'52	
min. Earth dist.	-8358 Feb 06 j 02:45	16°♊38'17	17.62243 AU	
direct	-8358 Apr 24 j 07:52	14°♊34'50		
evening set	-8358 Jul 27 j 16:43	17°♊59'05		
conjunction	-8358 Aug 12 j 09:21	18°♊57'43	0°54'52	
minimum elong	-8358 Aug 12 j 09:21	18°♊57'43	0°55'24	
max. Earth dist.	-8358 Aug 12 j 08:24	18°♊57'34	19.64981 AU	
morning rise	-8358 Aug 27 j 23:42	19°♊56'03		
retrograde	-8358 Nov 27 j 13:47	23°♊15'19		
opposition	-8357 Feb 11 j 02:30	21°♊14'19	1°02'16	
min. Earth dist.	-8357 Feb 11 j 02:44	21°♊14'18	17.67834 AU	
direct	-8357 Apr 29 j 08:43	19°♊11'01		
evening set	-8357 Aug 01 j 11:03	22°♊34'00		
conjunction	-8357 Aug 17 j 02:40	23°♊32'19	0°56'51	
minimum elong	-8357 Aug 17 j 02:40	23°♊32'19	0°57'23	
max. Earth dist.	-8357 Aug 17 j 03:35	23°♊32'28	19.70751 AU	
morning rise	-8357 Sep 01 j 16:37	24°♊30'23		
retrograde	-8357 Dec 02 j 10:45	27°♊49'09		
opposition	-8356 Feb 16 j 03:27	25°♊48'11	1°04'15	
min. Earth dist.	-8356 Feb 16 j 00:04	25°♊48'32	17.73784 AU	
direct	-8356 May 03 j 10:05	23°♊45'14		
evening set	-8356 Aug 05 j 04:21	27°♊06'56		
conjunction	-8356 Aug 20 j 19:22	28°♊04'57	0°58'28	
minimum elong	-8356 Aug 20 j 19:22	28°♊04'57	0°59'00	
max. Earth dist.	-8356 Aug 21 j 00:08	28°♊05'42	19.76870 AU	
morning rise	-8356 Sep 05 j 08:42	29°♊02'45		
	-8356 Sep 21 j 15:11	0°♋		
retrograde	-8356 Dec 06 j 04:16	2°♋21'01		
opposition	-8355 Feb 20 j 03:48	0°♋20'07	1°05'49	
min. Earth dist.	-8355 Feb 19 j 22:25	0°♋20'41	17.80072 AU	
	-8355 Feb 28 j 06:45	30°℞♊		
direct	-8355 May 08 j 09:10	28°♊17'34		
	-8355 Jul 11 j 15:56	0°♋		
evening set	-8355 Aug 09 j 20:46	1°♋37'57		
conjunction	-8355 Aug 25 j 10:59	2°♋35'40	0°59'43	
minimum elong	-8355 Aug 25 j 10:59	2°♋35'40	1°00'16	
max. Earth dist.	-8355 Aug 25 j 17:26	2°♋36'40	19.83321 AU	
morning rise	-8355 Sep 10 j 00:10	3°♋33'13		
retrograde	-8355 Dec 10 j 23:56	6°♋50'57		
opposition	-8354 Feb 25 j 03:20	4°♋50'09	1°06'59	
min. Earth dist.	-8354 Feb 24 j 18:41	4°♋51'03	17.86671 AU	
direct	-8354 May 13 j 07:21	2°♋48'00		
evening set	-8354 Aug 14 j 12:10	6°♋07'06		
conjunction	-8354 Aug 30 j 01:58	7°♋04'31	1°00'35	
minimum elong	-8354 Aug 30 j 01:58	7°♋04'31	1°01'08	
max. Earth dist.	-8354 Aug 30 j 12:08	7°♋06'06	19.90041 AU	
morning rise	-8354 Sep 14 j 14:43	8°♋01'49		
retrograde	-8354 Dec 15 j 17:01	11°♋19'01		
opposition	-8353 Mar 02 j 02:12	9°♋18'21	1°07'44	
min. Earth dist.	-8353 Mar 01 j 15:31	9°♋19'27	17.93498 AU	
direct	-8353 May 18 j 04:50	7°♋16'40		
evening set	-8353 Aug 19 j 02:53	10°♋34'27		
conjunction	-8353 Sep 03 j 16:03	11°♋31'34	1°01'06	
minimum elong	-8353 Sep 03 j 16:03	11°♋31'34	1°01'39	
max. Earth dist.	-8353 Sep 04 j 03:39	11°♋33'21	19.96970 AU	
morning rise	-8353 Sep 19 j 04:49	12°♋28'37		
retrograde	-8353 Dec 20 j 11:26	15°♋45'18		
min. Earth dist.	-8352 Mar 05 j 11:04	13°♋46'09	18.00510 AU	
opposition	-8352 Mar 06 j 00:28	13°♋44'47	1°08'04	
direct	-8352 May 22 j 00:22	11°♋43'32		
evening set	-8352 Aug 22 j 16:28	15°♋00'00		
conjunction	-8352 Sep 07 j 05:27	15°♋56'51	1°01'14	
minimum elong	-8352 Sep 07 j 05:27	15°♋56'51	1°01'47	
max. Earth dist.	-8352 Sep 07 j 20:32	15°♋59'10	20.04029 AU	
morning rise	-8352 Sep 22 j 18:01	16°♋53'40		
retrograde	-8352 Dec 24 j 04:10	20°♋09'48		
opposition	-8351 Mar 10 j 21:59	18°♋09'26	1°07'59	
min. Earth dist.	-8351 Mar 10 j 06:35	18°♋11'00	18.07598 AU	
direct	-8351 May 26 j 20:38	16°♋08'39		
evening set	-8351 Aug 27 j 05:37	19°♋23'47		
conjunction	-8351 Sep 11 j 18:08	20°♋20'22	1°01'01	
minimum elong	-8351 Sep 11 j 18:08	20°♋20'22	1°01'32	
max. Earth dist.	-8351 Sep 12 j 10:17	20°♋22'50	20.11131 AU	
morning rise	-8351 Sep 27 j 06:55	21°♋16'58		

Attention, astronomical year style is used: The year -8350 in astronomical counting style is the year 8351 BCE in historical counting style.

retrograde	-8351 Dec 28 j 21:12	24°♋32'33	
opposition	-8350 Mar 15 j 18:35	22°♋32'19	1°07'30
min. Earth dist.	-8350 Mar 15 j 01:15	22°♋34'05	18.14705 AU
direct	-8350 May 31 j 14:06	20°♋31'58	
evening set	-8350 Aug 31 j 17:47	23°♋45'49	
conjunction	-8350 Sep 16 j 06:18	24°♋42'08	1°00'26
minimum elong	-8350 Sep 16 j 06:18	24°♋42'08	1°00'57
max. Earth dist.	-8350 Sep 17 j 01:24	24°♋45'02	20.18204 AU
morning rise	-8350 Oct 01 j 19:01	25°♋38'30	
retrograde	-8349 Jan 02 j 13:00	28°♋53'32	
opposition	-8349 Mar 20 j 14:34	26°♋53'26	1°06'38
min. Earth dist.	-8349 Mar 19 j 19:16	26°♋55'23	18.21731 AU
direct	-8349 Jun 05 j 08:50	24°♋53'31	
evening set	-8349 Sep 05 j 05:16	28°♋06'02	
conjunction	-8349 Sep 20 j 17:31	29°♋02'06	0°59'30
minimum elong	-8349 Sep 20 j 17:31	29°♋02'06	1°00'00
max. Earth dist.	-8349 Sep 21 j 13:26	29°♋05'08	20.25171 AU
morning rise	-8349 Oct 06 j 06:38	29°♋58'17	
	-8349 Oct 06 j 18:16	0°♌	
retrograde	-8348 Jan 07 j 04:52	3°♌12'46	
opposition	-8348 Mar 24 j 09:53	1°♌12'45	1°05'24
min. Earth dist.	-8348 Mar 23 j 13:09	1°♌14'51	18.28638 AU
	-8348 Apr 25 j 11:55	30°℞♋	
direct	-8348 Jun 09 j 00:56	29°♋13'13	
	-8348 Jul 21 j 21:16	0°♌	
evening set	-8348 Sep 08 j 15:58	2°♌24'27	
conjunction	-8348 Sep 24 j 04:24	3°♌20'17	0°58'14
minimum elong	-8348 Sep 24 j 04:24	3°♌20'17	0°58'45
max. Earth dist.	-8348 Sep 25 j 02:51	3°♌23'40	20.31986 AU
morning rise	-8348 Oct 09 j 17:40	4°♌16'16	
retrograde	-8347 Jan 10 j 19:32	7°♌30'10	
min. Earth dist.	-8347 Mar 28 j 05:27	5°♌32'31	18.35353 AU
opposition	-8347 Mar 29 j 04:05	5°♌30'13	1°03'48
direct	-8347 Jun 13 j 17:56	3°♌31'03	
evening set	-8347 Sep 13 j 02:00	6°♌41'00	
conjunction	-8347 Sep 28 j 14:24	7°♌36'36	0°56'40
minimum elong	-8347 Sep 28 j 14:24	7°♌36'36	0°57'09
max. Earth dist.	-8347 Sep 29 j 13:25	7°♌40'04	20.38599 AU
morning rise	-8347 Oct 14 j 04:16	8°♌32'24	
retrograde	-8346 Jan 15 j 10:00	11°♌45'45	
opposition	-8346 Apr 02 j 21:35	9°♌45'49	1°01'51
min. Earth dist.	-8346 Apr 01 j 22:03	9°♌48'12	18.41868 AU
direct	-8346 Jun 18 j 08:23	7°♌46'58	
evening set	-8346 Sep 17 j 11:04	10°♌55'39	
conjunction	-8346 Oct 02 j 23:48	11°♌51'03	0°54'47
minimum elong	-8346 Oct 02 j 23:49	11°♌51'03	0°55'15
max. Earth dist.	-8346 Oct 04 j 01:09	11°♌54'51	20.45003 AU
morning rise	-8346 Oct 18 j 13:59	12°♌46'41	
	-8346 Dec 01 j 17:29	15°♌	
retrograde	-8345 Jan 19 j 23:12	15°♌59'27	
	-8345 Mar 12 j 09:57	15°℞♌	
opposition	-8345 Apr 07 j 14:04	13°♌59'32	0°59'35
min. Earth dist.	-8345 Apr 06 j 12:31	14°♌02'07	18.48163 AU
direct	-8345 Jun 22 j 23:54	12°♌00'59	
	-8345 Sep 19 j 09:26	15°♌	
evening set	-8345 Sep 21 j 19:36	15°♌08'26	
conjunction	-8345 Oct 07 j 08:27	16°♌03'37	0°52'38
minimum elong	-8345 Oct 07 j 08:28	16°♌03'38	0°53'04
max. Earth dist.	-8345 Oct 08 j 10:28	16°♌07'30	20.51202 AU
morning rise	-8345 Oct 22 j 23:21	16°♌59'06	
retrograde	-8344 Jan 24 j 11:54	20°♌11'18	
min. Earth dist.	-8344 Apr 10 j 03:36	18°♌14'01	18.54284 AU
opposition	-8344 Apr 11 j 05:48	18°♌11'23	0°57'02
direct	-8344 Jun 26 j 12:45	16°♌13'05	
evening set	-8344 Sep 25 j 03:15	19°♌19'21	
conjunction	-8344 Oct 10 j 16:38	20°♌14'22	0°50'13
minimum elong	-8344 Oct 10 j 16:38	20°♌14'22	0°50'37
max. Earth dist.	-8344 Oct 11 j 20:53	20°♌18'34	20.57234 AU
morning rise	-8344 Oct 26 j 08:01	21°♌09'42	
retrograde	-8343 Jan 28 j 00:14	24°♌21'21	
opposition	-8343 Apr 15 j 20:28	22°♌21'26	0°54'11
min. Earth dist.	-8343 Apr 14 j 16:12	22°♌24'16	18.60227 AU
direct	-8343 Jul 01 j 02:14	20°♌23'24	
evening set	-8343 Sep 29 j 10:34	23°♌28'32	
conjunction	-8343 Oct 15 j 00:12	24°♌23'24	0°47'34
minimum elong	-8343 Oct 15 j 00:12	24°♌23'24	0°47'56
max. Earth dist.	-8343 Oct 16 j 05:03	24°♌27'40	20.63091 AU
morning rise	-8343 Oct 30 j 16:23	25°♌18'36	
retrograde	-8342 Feb 01 j 10:49	28°♌29'43	
min. Earth dist.	-8342 Apr 19 j 05:42	26°♌32'41	18.66016 AU
opposition	-8342 Apr 20 j 10:18	26°♌29'49	0°51'06
direct	-8342 Jul 05 j 13:20	24°♌32'03	
evening set	-8342 Oct 03 j 17:08	27°♌36'08	
conjunction	-8342 Oct 19 j 07:24	28°♌30'51	0°44'41
minimum elong	-8342 Oct 19 j 07:25	28°♌30'51	0°45'00
max. Earth dist.	-8342 Oct 20 j 14:13	28°♌35'23	20.68798 AU
morning rise	-8342 Nov 04 j 00:11	29°♌25'55	
	-8342 Nov 14 j 02:31	0°♍	
retrograde	-8341 Feb 05 j 22:45	2°♍36'33	
opposition	-8341 Apr 24 j 23:20	0°♍36'41	0°47'45
min. Earth dist.	-8341 Apr 23 j 16:45	0°♍39'46	18.71630 AU
	-8341 May 10 j 10:33	30°℞♌	
direct	-8341 Jul 10 j 00:54	28°♌39'12	
	-8341 Sep 05 j 02:17	0°♍	
evening set	-8341 Oct 07 j 23:17	1°♍42'18	
conjunction	-8341 Oct 23 j 13:59	2°♍36'52	0°41'35
minimum elong	-8341 Oct 23 j 13:59	2°♍36'52	0°41'54
max. Earth dist.	-8341 Oct 24 j 21:19	2°♍41'28	20.74315 AU
morning rise	-8341 Nov 08 j 07:43	3°♍31'52	
retrograde	-8340 Feb 10 j 07:57	6°♍42'02	
min. Earth dist.	-8340 Apr 27 j 05:17	4°♍45'17	18.77050 AU
opposition	-8340 Apr 28 j 11:48	4°♍42'14	0°44'12
direct	-8340 Jul 13 j 09:57	2°♍45'01	
evening set	-8340 Oct 11 j 05:02	5°♍47'11	
conjunction	-8340 Oct 26 j 20:31	6°♍41'39	0°38'17
minimum elong	-8340 Oct 26 j 20:31	6°♍41'39	0°38'34
max. Earth dist.	-8340 Oct 28 j 05:23	6°♍46'27	20.79620 AU
morning rise	-8340 Nov 11 j 14:59	7°♍36'33	
retrograde	-8339 Feb 13 j 19:13	10°♍46'17	
opposition	-8339 May 02 j 23:12	8°♍46'33	0°40'26
min. Earth dist.	-8339 May 01 j 15:10	8°♍49'46	18.82217 AU
direct	-8339 Jul 17 j 20:05	6°♍49'37	
evening set	-8339 Oct 15 j 10:37	9°♍50'56	
conjunction	-8339 Oct 31 j 02:38	10°♍45'19	0°34'49
minimum elong	-8339 Oct 31 j 02:39	10°♍45'19	0°35'03
max. Earth dist.	-8339 Nov 01 j 11:34	10°♍50'06	20.84638 AU
morning rise	-8339 Nov 15 j 22:07	11°♍40'08	
retrograde	-8338 Feb 18 j 03:33	14°♍49'29	
min. Earth dist.	-8338 May 06 j 02:49	12°♍52'59	18.87082 AU
opposition	-8338 May 07 j 10:15	12°♍49'50	0°36'29
direct	-8338 Jul 22 j 03:18	10°♍53'09	
evening set	-8338 Oct 19 j 15:41	13°♍53'41	

Attention, astronomical year style is used: The year -8338 in astronomical counting style is the year 8339 BCE in historical counting style.

conjunction	-8338 Nov 04 j 08:34	14°♍47'58	0°31'10
minimum elong	-8338 Nov 04 j 08:34	14°♍47'58	0°31'23
max. Earth dist.	-8338 Nov 05 j 18:32	14°♍52'54	20.89329 AU
morning rise	-8338 Nov 20 j 04:50	15°♍42'44	
retrograde	-8337 Feb 22 j 14:03	18°♍51'43	
min. Earth dist.	-8337 May 10 j 11:55	16°♍55'24	18.91578 AU
opposition	-8337 May 11 j 20:31	16°♍52'08	0°32'21
direct	-8337 Jul 26 j 12:14	14°♍55'42	
evening set	-8337 Oct 23 j 20:52	17°♍55'31	
conjunction	-8337 Nov 08 j 14:23	18°♍49'44	0°27'24
minimum elong	-8337 Nov 08 j 14:24	18°♍49'44	0°27'34
max. Earth dist.	-8337 Nov 09 j 23:59	18°♍54'35	20.93617 AU
morning rise	-8337 Nov 24 j 11:44	19°♍44'28	
retrograde	-8336 Feb 26 j 22:01	22°♍53'07	
min. Earth dist.	-8336 May 13 j 22:53	20°♍56'44	18.95654 AU
opposition	-8336 May 15 j 06:19	20°♍53'35	0°28'05
direct	-8336 Jul 29 j 18:25	18°♍57'20	
evening set	-8336 Oct 27 j 01:48	21°♍56'31	
conjunction	-8336 Nov 11 j 20:18	22°♍50'41	0°23'29
minimum elong	-8336 Nov 11 j 20:19	22°♍50'41	0°23'38
max. Earth dist.	-8336 Nov 13 j 06:15	22°♍55'35	20.97458 AU
morning rise	-8336 Nov 27 j 18:33	23°♍45'23	
retrograde	-8335 Mar 02 j 07:57	26°♍53'43	
min. Earth dist.	-8335 May 18 j 07:17	24°♍57'27	18.99238 AU
opposition	-8335 May 19 j 15:24	24°♍54'14	0°23'42
direct	-8335 Aug 03 j 02:17	22°♍58'07	
evening set	-8335 Oct 31 j 06:46	25°♍56'43	
conjunction	-8335 Nov 16 j 01:59	26°♍50'51	0°19'29
minimum elong	-8335 Nov 16 j 01:59	26°♍50'51	0°19'34
max. Earth dist.	-8335 Nov 17 j 11:01	26°♍55'36	21.00774 AU
morning rise	-8335 Dec 02 j 01:19	27°♍45'32	
	-8334 Jan 17 j 22:14	0°♎	
retrograde	-8334 Mar 06 j 15:29	0°♎53'34	
	-8334 Apr 24 j 22:35	30°℞♍	
min. Earth dist.	-8334 May 22 j 17:28	28°♍57'09	19.02291 AU
opposition	-8334 May 24 j 00:02	28°♍54'05	0°19'13
direct	-8334 Aug 07 j 07:41	26°♍58'05	
evening set	-8334 Nov 04 j 11:28	29°♍56'09	
	-8334 Nov 05 j 14:54	0°♎	
conjunction	-8334 Nov 20 j 07:46	0°♎50'17	0°15'24
minimum elong	-8334 Nov 20 j 07:46	0°♎50'17	0°15'28
behind sun begin	-8334 Nov 20 j 05:52	0°♎50'01	
behind sun end	-8334 Nov 20 j 09:39	0°♎50'33	
max. Earth dist.	-8334 Nov 21 j 16:47	0°♎55'01	21.03566 AU
morning rise	-8334 Dec 06 j 08:01	1°♎44'58	
retrograde	-8333 Mar 11 j 00:40	4°♎52'43	
min. Earth dist.	-8333 May 27 j 01:04	2°♎56'20	19.04805 AU
opposition	-8333 May 28 j 08:05	2°♎53'13	0°14'39
direct	-8333 Aug 11 j 14:54	0°♎57'16	
evening set	-8333 Nov 08 j 16:08	3°♎54'52	
conjunction	-8333 Nov 24 j 13:17	4°♎48'59	0°11'16
minimum elong	-8333 Nov 24 j 13:17	4°♎48'59	0°11'17
behind sun begin	-8333 Nov 24 j 08:24	4°♎48'19	
behind sun end	-8333 Nov 24 j 18:09	4°♎49'40	
max. Earth dist.	-8333 Nov 25 j 21:17	4°♎53'34	21.05815 AU
morning rise	-8333 Dec 10 j 14:44	5°♎43'42	
retrograde	-8332 Mar 14 j 07:45	8°♎51'12	
min. Earth dist.	-8332 May 30 j 10:31	6°♎54'35	19.06796 AU
opposition	-8332 May 31 j 15:45	6°♎51'38	0°10'03
direct	-8332 Aug 14 j 19:25	4°♎55'43	
evening set	-8332 Nov 11 j 20:45	7°♎52'55	

conjunction	-8332 Nov 27 j 19:00	8°♎47'03	0°07'06
minimum elong	-8332 Nov 27 j 19:01	8°♎47'03	0°07'05
behind sun begin	-8332 Nov 27 j 12:54	8°♎46'12	
behind sun end	-8332 Nov 28 j 01:07	8°♎47'54	
max. Earth dist.	-8332 Nov 29 j 02:51	8°♎51'36	21.07566 AU
morning rise	-8332 Dec 13 j 21:26	9°♎41'47	
retrograde	-8331 Mar 18 j 16:16	12°♎49'04	
opposition	-8331 Jun 04 j 22:34	10°♎49'26	0°05'24
min. Earth dist.	-8331 Jun 03 j 17:05	10°♎52'24	19.08302 AU
direct	-8331 Aug 19 j 01:56	8°♎53'29	
evening set	-8331 Nov 16 j 01:29	11°♎50'23	
conjunction	-8331 Dec 02 j 00:36	12°♎44'34	0°02'55
minimum elong	-8331 Dec 02 j 00:36	12°♎44'33	0°02'51
behind sun begin	-8331 Dec 01 j 18:00	12°♎43'39	
behind sun end	-8331 Dec 02 j 07:12	12°♎45'28	
max. Earth dist.	-8331 Dec 03 j 07:24	12°♎48'56	21.08843 AU
morning rise	-8331 Dec 18 j 04:10	13°♎39'20	
retrograde	-8330 Mar 22 j 22:44	16°♎46'26	
min. Earth dist.	-8330 Jun 08 j 01:33	14°♎49'32	19.09370 AU
opposition	-8330 Jun 09 j 05:15	14°♎46'44	0°00'45
desc. node	-8330 Aug 05 j 22:58	12°♎58'22	
direct	-8330 Aug 23 j 05:27	12°♎50'46	
evening set	-8330 Nov 20 j 05:58	15°♎47'26	
conjunction	-8330 Dec 06 j 06:13	16°♎41'39	-0°01'25
minimum elong	-8330 Dec 06 j 06:13	16°♎41'39	0°01'31
behind sun begin	-8330 Dec 05 j 23:35	16°♎40'44	
behind sun end	-8330 Dec 06 j 12:50	16°♎42'34	
max. Earth dist.	-8330 Dec 07 j 12:50	16°♎46'00	21.09714 AU
morning rise	-8330 Dec 22 j 10:45	17°♎36'29	
retrograde	-8329 Mar 27 j 07:15	20°♎43'27	
min. Earth dist.	-8329 Jun 12 j 07:27	18°♎46'31	19.10040 AU
opposition	-8329 Jun 13 j 11:25	18°♎43'42	-0°03'54
direct	-8329 Aug 27 j 11:11	16°♎47'41	
evening set	-8329 Nov 24 j 10:54	19°♎44'13	
conjunction	-8329 Dec 10 j 12:03	20°♎38'31	-0°05'38
minimum elong	-8329 Dec 10 j 12:03	20°♎38'31	0°05'45
behind sun begin	-8329 Dec 10 j 05:42	20°♎37'38	
behind sun end	-8329 Dec 10 j 18:25	20°♎39'24	
max. Earth dist.	-8329 Dec 11 j 17:30	20°♎42'42	21.10187 AU
morning rise	-8329 Dec 26 j 17:45	21°♎33'26	
retrograde	-8328 Mar 30 j 13:41	24°♎40'19	
opposition	-8328 Jun 16 j 17:18	22°♎40'31	-0°08'31
min. Earth dist.	-8328 Jun 15 j 15:18	22°♎43'09	19.10330 AU
direct	-8328 Aug 30 j 14:14	20°♎44'28	
evening set	-8328 Nov 27 j 15:54	23°♎40'58	
conjunction	-8328 Dec 13 j 18:15	24°♎35'21	-0°09'46
minimum elong	-8328 Dec 13 j 18:15	24°♎35'21	0°09'57
behind sun begin	-8328 Dec 13 j 12:52	24°♎34'36	
behind sun end	-8328 Dec 13 j 23:37	24°♎36'05	
max. Earth dist.	-8328 Dec 14 j 23:07	24°♎39'26	21.10298 AU
morning rise	-8328 Dec 30 j 00:55	25°♎30'21	
retrograde	-8327 Apr 03 j 22:29	28°♎37'11	
opposition	-8327 Jun 20 j 22:52	26°♎37'23	-0°13'07
min. Earth dist.	-8327 Jun 19 j 20:51	26°♎40'01	19.10245 AU
direct	-8327 Sep 03 j 19:01	24°♎41'18	
evening set	-8327 Dec 01 j 21:14	27°♎37'50	
conjunction	-8327 Dec 18 j 00:30	28°♎32'19	-0°13'53
minimum elong	-8327 Dec 18 j 00:29	28°♎32'19	0°14'05
behind sun begin	-8327 Dec 17 j 21:15	28°♎31'52	
behind sun end	-8327 Dec 18 j 03:44	28°♎32'46	
max. Earth dist.	-8327 Dec 19 j 03:55	28°♎36'12	21.10015 AU
morning rise	-8326 Jan 03 j 08:15	29°♎27'25	

Attention, astronomical year style is used: The year -8326 in astronomical counting style is the year 8327 BCE in historical counting style.

	-8326 Jan	13 j 08:39	0°♏	
retrograde	-8326 Apr	08 j 05:25	2°♏34'17	
min. Earth dist.	-8326 Jun	24 j 04:32	0°♏36'54	19.09770 AU
opposition	-8326 Jun	25 j 04:23	0°♏34'29	-0°17'39
	-8326 Jul	09 j 13:36	30°℞♎	
direct	-8326 Sep	07 j 22:04	28°♎38'21	
	-8326 Nov	04 j 17:16	0°♏	
evening set	-8326 Dec	06 j 02:51	1°♏35'02	
conjunction	-8326 Dec	22 j 07:17	2°♏29'38	-0°17'57
minimum elong	-8326 Dec	22 j 07:16	2°♏29'38	0°18'12
max. Earth dist.	-8326 Dec	23 j 09:49	2°♏33'23	21.09355 AU
morning rise	-8325 Jan	07 j 15:59	3°♏24'51	
retrograde	-8325 Apr	12 j 14:35	6°♏31'46	
min. Earth dist.	-8325 Jun	28 j 10:07	4°♏34'22	19.08897 AU
opposition	-8325 Jun	29 j 09:39	4°♏31'59	-0°22'06
direct	-8325 Sep	12 j 02:25	2°♏35'47	
evening set	-8325 Dec	10 j 09:02	5°♏32'41	
conjunction	-8325 Dec	26 j 14:26	6°♏27'25	-0°21'56
minimum elong	-8325 Dec	26 j 14:25	6°♏27'25	0°22'13
max. Earth dist.	-8325 Dec	27 j 15:09	6°♏30'55	21.08264 AU
morning rise	-8324 Jan	12 j 00:13	7°♏22'46	
retrograde	-8324 Apr	15 j 22:10	10°♏29'48	
opposition	-8324 Jul	02 j 15:02	8°♏30'01	-0°26'28
min. Earth dist.	-8324 Jul	01 j 18:03	8°♏32'09	19.07581 AU
direct	-8324 Sep	15 j 05:40	6°♏33'45	
evening set	-8324 Dec	13 j 15:44	9°♏30'57	
conjunction	-8324 Dec	29 j 22:15	10°♏25'50	-0°25'50
minimum elong	-8324 Dec	29 j 22:15	10°♏25'50	0°26'09
max. Earth dist.	-8324 Dec	30 j 21:32	10°♏29'08	21.06720 AU
morning rise	-8323 Jan	15 j 08:55	11°♏21'19	
retrograde	-8323 Apr	20 j 08:08	14°♏28'29	
opposition	-8323 Jul	06 j 20:09	12°♏28'43	-0°30'43
min. Earth dist.	-8323 Jul	05 j 23:58	12°♏30'46	19.05785 AU
direct	-8323 Sep	19 j 10:32	10°♏32'20	
evening set	-8323 Dec	17 j 23:03	13°♏29'55	
conjunction	-8322 Jan	03 j 06:30	14°♏24'57	-0°29'37
minimum elong	-8322 Jan	03 j 06:29	14°♏24'57	0°29'58
max. Earth dist.	-8322 Jan	04 j 03:31	14°♏27'56	21.04664 AU
	-8322 Jan	13 j 14:20	15°♏	
morning rise	-8322 Jan	19 j 18:08	15°♏20'36	
retrograde	-8322 Apr	24 j 15:41	18°♏27'55	
min. Earth dist.	-8322 Jul	10 j 08:14	16°♏29'54	19.03469 AU
opposition	-8322 Jul	11 j 01:36	16°♏28'08	-0°34'50
	-8322 Aug	20 j 19:21	15°℞♏	
direct	-8322 Sep	23 j 13:57	14°♏31'36	
	-8322 Oct	26 j 21:58	15°♏	
evening set	-8322 Dec	22 j 06:41	17°♏29'36	
conjunction	-8321 Jan	07 j 15:16	18°♏24'50	-0°33'17
minimum elong	-8321 Jan	07 j 15:16	18°♏24'50	0°33'38
max. Earth dist.	-8321 Jan	08 j 10:24	18°♏27'32	21.02088 AU
morning rise	-8321 Jan	24 j 03:46	19°♏20'38	
retrograde	-8321 Apr	29 j 02:39	22°♏28'09	
opposition	-8321 Jul	15 j 07:02	20°♏28'17	-0°38'48
min. Earth dist.	-8321 Jul	14 j 14:43	20°♏29'58	19.00612 AU
direct	-8321 Sep	27 j 19:54	18°♏31'33	
evening set	-8321 Dec	26 j 15:11	21°♏30'04	
conjunction	-8320 Jan	12 j 00:42	22°♏25'28	-0°36'46
minimum elong	-8320 Jan	12 j 00:42	22°♏25'28	0°37'10
max. Earth dist.	-8320 Jan	12 j 17:17	22°♏27'49	20.98953 AU
morning rise	-8320 Jan	28 j 14:07	23°♏21'27	
retrograde	-8320 May	02 j 10:10	26°♏29'09	
opposition	-8320 Jul	18 j 12:32	24°♏29'13	-0°42'35
min. Earth dist.	-8320 Jul	17 j 23:17	24°♏30'35	18.97208 AU
direct	-8320 Sep	30 j 23:40	22°♏32'13	
evening set	-8320 Dec	30 j 00:09	25°♏31'17	
conjunction	-8319 Jan	15 j 10:44	26°♏26'53	-0°40'06
minimum elong	-8319 Jan	15 j 10:44	26°♏26'53	0°40'30
max. Earth dist.	-8319 Jan	16 j 01:07	26°♏28'56	20.95303 AU
morning rise	-8319 Feb	01 j 00:57	27°♏23'02	
	-8319 Apr	01 j 00:09	0°♐	
retrograde	-8319 May	06 j 21:14	0°♐30'58	
	-8319 Jun	11 j 23:52	30°℞♏	
opposition	-8319 Jul	22 j 18:06	28°♏30'54	-0°46'09
min. Earth dist.	-8319 Jul	22 j 06:03	28°♏32'09	18.93305 AU
direct	-8319 Oct	05 j 06:44	26°♏33'36	
evening set	-8318 Jan	03 j 09:38	29°♏33'17	
	-8318 Jan	11 j 08:11	0°♐	
conjunction	-8318 Jan	19 j 21:06	0°♐29'06	-0°43'14
minimum elong	-8318 Jan	19 j 21:05	0°♐29'06	0°43'41
max. Earth dist.	-8318 Jan	20 j 09:03	0°♐30'48	20.91163 AU
morning rise	-8318 Feb	05 j 12:05	1°♐25'26	
retrograde	-8318 May	11 j 05:05	4°♐33'36	
opposition	-8318 Jul	26 j 23:56	2°♐33'25	-0°49'31
min. Earth dist.	-8318 Jul	26 j 14:49	2°♐34'21	18.88953 AU
direct	-8318 Oct	09 j 11:12	0°♐35'46	
evening set	-8317 Jan	07 j 19:43	3°♐36'08	
conjunction	-8317 Jan	24 j 08:11	4°♐32'11	-0°46'09
minimum elong	-8317 Jan	24 j 08:11	4°♐32'11	0°46'37
max. Earth dist.	-8317 Jan	24 j 17:58	4°♐33'34	20.86628 AU
morning rise	-8317 Feb	09 j 23:55	5°♐28'43	
retrograde	-8317 May	15 j 16:11	8°♐37'09	
opposition	-8317 Jul	31 j 05:44	6°♐36'49	-0°52'39
min. Earth dist.	-8317 Jul	30 j 21:47	6°♐37'38	18.84236 AU
direct	-8317 Oct	13 j 18:54	4°♐38'48	
evening set	-8316 Jan	12 j 06:36	7°♐39'57	
conjunction	-8316 Jan	28 j 19:56	8°♐36'14	-0°48'52
minimum elong	-8316 Jan	28 j 19:56	8°♐36'14	0°49'21
max. Earth dist.	-8316 Jan	29 j 03:24	8°♐37'17	20.81737 AU
morning rise	-8316 Feb	14 j 12:21	9°♐32'58	
retrograde	-8316 May	19 j 01:04	12°♐41'42	
opposition	-8316 Aug	03 j 12:00	10°♐41'14	-0°55'32
min. Earth dist.	-8316 Aug	03 j 06:53	10°♐41'46	18.79196 AU
direct	-8316 Oct	17 j 00:25	8°♐42'52	
evening set	-8315 Jan	15 j 18:06	11°♐44'51	
conjunction	-8315 Feb	01 j 08:18	12°♐41'22	-0°51'20
minimum elong	-8315 Feb	01 j 08:18	12°♐41'22	0°51'51
max. Earth dist.	-8315 Feb	01 j 13:26	12°♐42'06	20.76566 AU
morning rise	-8315 Feb	18 j 01:20	13°♐38'19	
retrograde	-8315 May	23 j 12:40	16°♐47'24	
opposition	-8315 Aug	07 j 18:22	14°♐46'49	-0°58'08
min. Earth dist.	-8315 Aug	07 j 14:22	14°♐47'14	18.73899 AU
direct	-8315 Oct	21 j 08:20	12°♐48'05	
evening set	-8314 Jan	20 j 06:21	15°♐51'00	
conjunction	-8314 Feb	05 j 21:21	16°♐47'46	-0°53'34
minimum elong	-8314 Feb	05 j 21:21	16°♐47'46	0°54'04
max. Earth dist.	-8314 Feb	06 j 00:20	16°♐48'12	20.71146 AU
morning rise	-8314 Feb	22 j 14:53	17°♐44'56	
retrograde	-8314 May	27 j 22:56	20°♐54'25	
opposition	-8314 Aug	12 j 01:20	18°♐53'44	-1°00'29
min. Earth dist.	-8314 Aug	11 j 23:59	18°♐53'53	18.68379 AU
direct	-8314 Oct	25 j 15:02	16°♐54'40	
evening set	-8313 Jan	24 j 19:16	19°♐58'33	

Attention, astronomical year style is used: The year -8313 in astronomical counting style is the year 8314 BCE in historical counting style.

conjunction	-8313 Feb 10 j 11:05	20°♐55'36	-0°55'31
minimum elong	-8313 Feb 10 j 11:05	20°♐55'36	0°56'03
max. Earth dist.	-8313 Feb 10 j 11:33	20°♐55'40	20.65537 AU
morning rise	-8313 Feb 27 j 05:12	21°♐52'59	
retrograde	-8313 Jun 01 j 11:26	25°♐02'55	
opposition	-8313 Aug 16 j 08:38	23°♐02'10	-1°02'31
min. Earth dist.	-8313 Aug 16 j 08:29	23°♐02'11	18.62671 AU
direct	-8313 Oct 29 j 23:31	21°♐02'44	
evening set	-8312 Jan 29 j 09:15	24°♐07'42	
conjunction	-8312 Feb 15 j 01:48	25°♐05'01	-0°57'13
minimum elong	-8312 Feb 15 j 01:48	25°♐05'01	0°57'44
max. Earth dist.	-8312 Feb 15 j 00:09	25°♐04'47	20.59728 AU
morning rise	-8312 Mar 02 j 20:17	26°♐02'38	
retrograde	-8312 Jun 04 j 23:14	29°♐13'02	
opposition	-8312 Aug 19 j 16:28	27°♐12'15	-1°04'15
min. Earth dist.	-8312 Aug 19 j 19:04	27°♐11'58	18.56772 AU
direct	-8312 Nov 02 j 07:39	25°♐12'30	
evening set	-8311 Feb 02 j 00:07	28°♐18'36	
conjunction	-8311 Feb 18 j 17:18	29°♐16'12	-0°58'37
minimum elong	-8311 Feb 18 j 17:18	29°♐16'12	0°59'09
max. Earth dist.	-8311 Feb 18 j 12:47	29°♐15'32	20.53748 AU
	-8311 Mar 03 j 09:13	0°♑	
morning rise	-8311 Mar 07 j 12:13	0°♑14'03	
retrograde	-8311 Jun 09 j 12:46	3°♑24'57	
opposition	-8311 Aug 24 j 00:52	1°♑24'08	-1°05'39
min. Earth dist.	-8311 Aug 24 j 04:52	1°♑23'43	18.50697 AU
	-8311 Sep 29 j 20:41	30°℞♐	
direct	-8311 Nov 06 j 17:29	29°♐24'03	
	-8311 Dec 14 j 03:39	0°♑	
evening set	-8310 Feb 06 j 15:45	2°♑31'21	
conjunction	-8310 Feb 23 j 09:34	3°♑29'14	-0°59'42
minimum elong	-8310 Feb 23 j 09:34	3°♑29'14	1°00'15
max. Earth dist.	-8310 Feb 23 j 03:02	3°♑28'18	20.47565 AU
morning rise	-8310 Mar 12 j 04:39	4°♑27'21	
retrograde	-8310 Jun 14 j 01:53	7°♑38'47	
opposition	-8310 Aug 28 j 09:59	5°♑37'57	-1°06'42
min. Earth dist.	-8310 Aug 28 j 16:49	5°♑37'13	18.44414 AU
direct	-8310 Nov 11 j 02:57	3°♑37'31	
evening set	-8309 Feb 11 j 08:33	6°♑46'05	
conjunction	-8309 Feb 28 j 02:51	7°♑44'15	-1°00'28
minimum elong	-8309 Feb 28 j 02:51	7°♑44'15	1°01'01
max. Earth dist.	-8309 Feb 27 j 17:00	7°♑42'49	20.41182 AU
morning rise	-8309 Mar 16 j 22:17	8°♑42'35	
retrograde	-8309 Jun 18 j 16:46	11°♑54'35	
opposition	-8309 Sep 01 j 19:35	9°♑53'42	-1°07'24
min. Earth dist.	-8309 Sep 02 j 04:11	9°♑52'47	18.37922 AU
direct	-8309 Nov 15 j 14:53	7°♑52'54	
evening set	-8308 Feb 16 j 02:20	11°♑02'45	
conjunction	-8308 Mar 03 j 21:12	12°♑01'13	-1°00'54
minimum elong	-8308 Mar 03 j 21:12	12°♑01'13	1°01'28
max. Earth dist.	-8308 Mar 03 j 09:14	11°♑59'28	20.34562 AU
morning rise	-8308 Mar 20 j 16:37	12°♑59'48	
retrograde	-8308 Jun 22 j 06:57	16°♑12'21	
opposition	-8308 Sep 05 j 06:07	14°♑11'25	-1°07'43
min. Earth dist.	-8308 Sep 05 j 17:31	14°♑10'12	18.31191 AU
direct	-8308 Nov 19 j 02:04	12°♑10'13	
evening set	-8307 Feb 19 j 20:59	15°♑21'22	
conjunction	-8307 Mar 08 j 16:07	16°♑20'06	-1°01'00
minimum elong	-8307 Mar 08 j 16:07	16°♑20'06	1°01'32
max. Earth dist.	-8307 Mar 08 j 00:36	16°♑17'50	20.27730 AU
morning rise	-8307 Mar 25 j 11:43	17°♑18'56	
retrograde	-8307 Jun 26 j 22:59	20°♑32'02	
opposition	-8307 Sep 09 j 17:14	18°♑31'00	-1°07'39
min. Earth dist.	-8307 Sep 10 j 06:26	18°♑29'36	18.24266 AU
direct	-8307 Nov 23 j 15:59	16°♑29'23	
evening set	-8306 Feb 24 j 16:24	19°♑41'50	
conjunction	-8306 Mar 13 j 12:00	20°♑40'52	-1°00'45
minimum elong	-8306 Mar 13 j 12:00	20°♑40'52	1°01'17
max. Earth dist.	-8306 Mar 12 j 18:45	20°♑38'20	20.20713 AU
morning rise	-8306 Mar 30 j 07:25	21°♑39'55	
retrograde	-8306 Jul 01 j 14:30	24°♑53'34	
opposition	-8306 Sep 14 j 05:04	22°♑52'26	-1°07'11
min. Earth dist.	-8306 Sep 14 j 20:45	22°♑50'46	18.17184 AU
direct	-8306 Nov 28 j 05:07	20°♑50'21	
evening set	-8305 Mar 01 j 12:45	24°♑04'08	
max. Earth dist.	-8305 Mar 17 j 11:45	25°♑00'22	20.13591 AU
conjunction	-8305 Mar 18 j 08:29	25°♑03'26	-1°00'08
minimum elong	-8305 Mar 18 j 08:29	25°♑03'26	1°00'39
morning rise	-8305 Apr 04 j 04:00	26°♑02'44	
retrograde	-8305 Jul 06 j 07:25	29°♑16'55	
opposition	-8305 Sep 18 j 17:34	27°♑15'39	-1°06'20
min. Earth dist.	-8305 Sep 19 j 11:02	27°♑13'47	18.10034 AU
direct	-8305 Dec 02 j 20:14	25°♑13'05	
evening set	-8304 Mar 05 j 09:51	28°♑28'12	
max. Earth dist.	-8304 Mar 21 j 07:56	29°♑24'31	20.06420 AU
conjunction	-8304 Mar 22 j 05:54	29°♑27'47	-0°59'10
minimum elong	-8304 Mar 22 j 05:54	29°♑27'47	0°59'40
	-8304 Mar 31 j 06:43	0°♒	
morning rise	-8304 Apr 08 j 01:02	0°♒27'18	
retrograde	-8304 Jul 10 j 00:43	3°♒42'01	
opposition	-8304 Sep 22 j 06:49	1°♒40'37	-1°05'06
min. Earth dist.	-8304 Sep 23 j 02:16	1°♒38'31	18.02875 AU
	-8304 Nov 06 j 23:16	30°℞♑	
direct	-8304 Dec 06 j 11:21	29°♑37'35	
	-8303 Jan 04 j 17:46	0°♒	
evening set	-8303 Mar 10 j 07:49	2°♒54'02	
max. Earth dist.	-8303 Mar 26 j 02:39	3°♒50'07	19.99301 AU
conjunction	-8303 Mar 27 j 03:46	3°♒53'52	-0°57'51
minimum elong	-8303 Mar 27 j 03:46	3°♒53'52	0°58'21
morning rise	-8303 Apr 12 j 22:47	4°♒53'37	
retrograde	-8303 Jul 14 j 18:27	8°♒08'52	
opposition	-8303 Sep 26 j 20:50	6°♒07'19	-1°03'27
min. Earth dist.	-8303 Sep 27 j 17:52	6°♒05'03	17.95821 AU
direct	-8303 Dec 11 j 03:24	4°♒03'49	
evening set	-8302 Mar 15 j 06:10	7°♒21'35	
max. Earth dist.	-8302 Mar 31 j 00:37	8°♒17'50	19.92311 AU
conjunction	-8302 Apr 01 j 02:17	8°♒21'41	-0°56'10
minimum elong	-8302 Apr 01 j 02:18	8°♒21'41	0°56'37
morning rise	-8302 Apr 17 j 20:48	9°♒21'38	
retrograde	-8302 Jul 19 j 13:31	12°♒37'25	
opposition	-8302 Oct 01 j 11:40	10°♒35'46	-1°01'25
min. Earth dist.	-8302 Oct 02 j 10:02	10°♒33'20	17.88923 AU
direct	-8302 Dec 15 j 20:21	8°♒31'50	
evening set	-8301 Mar 20 j 05:39	11°♒50'54	
max. Earth dist.	-8301 Apr 04 j 21:00	12°♒46'58	19.85525 AU
conjunction	-8301 Apr 06 j 01:30	12°♒51'16	-0°54'09
minimum elong	-8301 Apr 06 j 01:30	12°♒51'16	0°54'36
morning rise	-8301 Apr 22 j 19:42	13°♒51'24	
	-8301 May 13 j 04:38	15°♒	
retrograde	-8301 Jul 24 j 07:53	17°♒07'44	
opposition	-8301 Oct 06 j 03:12	15°♒05'58	-0°59'00
min. Earth dist.	-8301 Oct 07 j 03:07	15°♒03'22	17.82274 AU

Attention, astronomical year style is used: The year -8301 in astronomical counting style is the year 8302 BCE in historical counting style.

	-8301 Oct 08 j 10:11	15°R♒	
direct	-8301 Dec 20 j 13:54	13°♒01'36	
	-8300 Feb 28 j 14:51	15°♒	
evening set	-8300 Mar 24 j 05:44	16°♒22'01	
max. Earth dist.	-8300 Apr 08 j 20:46	17°♒18'15	19.79010 AU
conjunction	-8300 Apr 10 j 01:31	17°♒22'36	-0°51'47
minimum elong	-8300 Apr 10 j 01:31	17°♒22'36	0°52'12
morning rise	-8300 Apr 26 j 19:02	18°♒22'56	
retrograde	-8300 Jul 28 j 04:16	21°♒39'47	
opposition	-8300 Oct 09 j 19:45	19°♒37'57	-0°56'12
min. Earth dist.	-8300 Oct 10 j 20:25	19°♒35'16	17.75911 AU
direct	-8300 Dec 24 j 08:38	17°♒33'16	
evening set	-8299 Mar 29 j 06:30	20°♒54'57	
max. Earth dist.	-8299 Apr 13 j 18:48	21°♒51'02	19.72814 AU
conjunction	-8299 Apr 15 j 01:49	21°♒55'45	-0°49'05
minimum elong	-8299 Apr 15 j 01:49	21°♒55'45	0°49'28
morning rise	-8299 May 01 j 18:48	22°♒56'15	
retrograde	-8299 Aug 01 j 23:35	26°♒13'40	
opposition	-8299 Oct 14 j 13:10	24°♒11'47	-0°53'02
min. Earth dist.	-8299 Oct 15 j 15:15	24°♒08'57	17.69899 AU
direct	-8299 Dec 29 j 04:08	22°♒06'46	
evening set	-8298 Apr 03 j 07:53	25°♒29'44	
max. Earth dist.	-8298 Apr 18 j 19:54	26°♒26'00	19.66979 AU
conjunction	-8298 Apr 20 j 02:57	26°♒30'45	-0°46'02
minimum elong	-8298 Apr 20 j 02:57	26°♒30'45	0°46'25
morning rise	-8298 May 06 j 19:09	27°♒31'24	
	-8298 Jun 24 j 22:48	0°♓	
retrograde	-8298 Aug 06 j 20:58	0°♓49'20	
	-8298 Sep 19 j 13:15	30°R♒	
opposition	-8298 Oct 19 j 07:17	28°♒47'28	-0°49'30
min. Earth dist.	-8298 Oct 20 j 09:46	28°♒44'34	17.64237 AU
direct	-8297 Jan 03 j 00:53	26°♒42'11	
	-8297 Apr 06 j 15:16	0°♓	
evening set	-8297 Apr 08 j 10:09	0°♓06'23	
max. Earth dist.	-8297 Apr 23 j 19:40	1°♓02'32	19.61494 AU
conjunction	-8297 Apr 25 j 04:37	1°♓07'35	-0°42'41
minimum elong	-8297 Apr 25 j 04:37	1°♓07'35	0°43'00
morning rise	-8297 May 11 j 20:06	2°♓08'22	
retrograde	-8297 Aug 11 j 17:28	5°♓26'51	
opposition	-8297 Oct 24 j 02:31	3°♓24'59	-0°45'36
min. Earth dist.	-8297 Oct 25 j 06:35	3°♓21'55	17.58934 AU
direct	-8296 Jan 07 j 22:11	1°♓19'27	
evening set	-8296 Apr 12 j 12:53	4°♓44'51	
max. Earth dist.	-8296 Apr 27 j 21:43	5°♓41'07	19.56359 AU
conjunction	-8296 Apr 29 j 06:48	5°♓46'13	-0°39'02
minimum elong	-8296 Apr 29 j 06:48	5°♓46'13	0°39'19
morning rise	-8296 May 15 j 21:21	6°♓47'07	
retrograde	-8296 Aug 15 j 16:11	10°♓06'06	
opposition	-8296 Oct 27 j 22:35	8°♓04'15	-0°41'23
min. Earth dist.	-8296 Oct 29 j 02:41	8°♓01'11	17.53960 AU
direct	-8295 Jan 11 j 21:30	5°♓58'32	
evening set	-8295 Apr 17 j 16:16	9°♓25'02	
max. Earth dist.	-8295 May 02 j 23:03	10°♓21'13	19.51547 AU
conjunction	-8295 May 04 j 09:24	10°♓26'31	-0°35'06
minimum elong	-8295 May 04 j 09:24	10°♓26'31	0°35'20
morning rise	-8295 May 20 j 23:00	11°♓27'31	
retrograde	-8295 Aug 20 j 13:35	14°♓46'59	
opposition	-8295 Nov 01 j 19:40	12°♓45'08	-0°36'52
min. Earth dist.	-8295 Nov 03 j 01:19	12°♓41'54	17.49328 AU
direct	-8294 Jan 16 j 20:31	10°♓39'12	
evening set	-8294 Apr 22 j 19:53	14°♓06'44	
max. Earth dist.	-8294 May 08 j 01:37	15°♓02'57	19.47081 AU
conjunction	-8294 May 09 j 12:17	15°♓08'20	-0°30'55
minimum elong	-8294 May 09 j 12:17	15°♓08'20	0°31'06
morning rise	-8294 May 26 j 00:56	16°♓09'25	
retrograde	-8294 Aug 25 j 13:17	19°♓29'19	
opposition	-8294 Nov 06 j 17:27	17°♓27'27	-0°32'04
min. Earth dist.	-8294 Nov 07 j 22:43	17°♓24'16	17.45020 AU
direct	-8293 Jan 21 j 22:04	15°♓21'20	
evening set	-8293 Apr 28 j 00:02	18°♓49'47	
max. Earth dist.	-8293 May 13 j 04:25	19°♓46'00	19.42942 AU
conjunction	-8293 May 14 j 15:33	19°♓51'28	-0°26'29
minimum elong	-8293 May 14 j 15:34	19°♓51'28	0°26'39
morning rise	-8293 May 31 j 03:02	20°♓52'36	
retrograde	-8293 Aug 30 j 11:17	24°♓12'53	
opposition	-8293 Nov 11 j 16:07	22°♓11'01	-0°27'02
min. Earth dist.	-8293 Nov 12 j 22:46	22°♓07'41	17.41071 AU
direct	-8292 Jan 26 j 22:47	20°♓04'42	
evening set	-8292 May 02 j 04:24	23°♓33'58	
max. Earth dist.	-8292 May 17 j 07:26	24°♓30'11	19.39195 AU
conjunction	-8292 May 18 j 18:53	24°♓35'43	-0°21'53
minimum elong	-8292 May 18 j 18:53	24°♓35'43	0°21'59
morning rise	-8292 Jun 04 j 05:20	25°♓36'53	
retrograde	-8292 Sep 03 j 11:53	28°♓57'31	
opposition	-8292 Nov 15 j 15:27	26°♓55'37	-0°21'48
min. Earth dist.	-8292 Nov 16 j 21:10	26°♓52'22	17.37526 AU
direct	-8291 Jan 31 j 02:05	24°♓49'08	
evening set	-8291 May 07 j 08:36	28°♓19'05	
max. Earth dist.	-8291 May 22 j 11:26	29°♓15'26	19.35867 AU
conjunction	-8291 May 23 j 22:09	29°♓20'52	-0°17'07
minimum elong	-8291 May 23 j 22:09	29°♓20'52	0°17'12
	-8291 Jun 03 j 08:19	0°♈	
morning rise	-8291 Jun 09 j 07:18	0°♈22'04	
retrograde	-8291 Sep 08 j 10:21	3°♈42'59	
opposition	-8291 Nov 20 j 15:32	1°♈41'02	-0°16'25
min. Earth dist.	-8291 Nov 21 j 22:05	1°♈37'43	17.34436 AU
	-8290 Jan 04 j 11:55	30°R♓	
direct	-8290 Feb 05 j 03:28	29°♓34'24	
	-8290 Mar 08 j 09:46	0°♈	
evening set	-8290 May 12 j 13:01	3°♈04'57	
max. Earth dist.	-8290 May 27 j 14:28	4°♈01'15	19.33035 AU
conjunction	-8290 May 29 j 01:20	4°♈06'44	-0°12'14
minimum elong	-8290 May 29 j 01:20	4°♈06'44	0°12'15
behind sun begin	-8290 May 28 j 20:54	4°♈06'03	
behind sun end	-8290 May 29 j 05:47	4°♈07'25	
morning rise	-8290 Jun 14 j 09:26	5°♈07'55	
retrograde	-8290 Sep 13 j 11:41	8°♈29'04	
opposition	-8290 Nov 25 j 15:53	6°♈27'05	-0°10'54
min. Earth dist.	-8290 Nov 26 j 21:07	6°♈23'54	17.31862 AU
direct	-8289 Feb 10 j 07:29	4°♈20'19	
evening set	-8289 May 17 j 17:15	7°♈51'21	
max. Earth dist.	-8289 Jun 01 j 19:25	8°♈47'54	19.30735 AU
conjunction	-8289 Jun 03 j 04:34	8°♈53'07	-0°07'16
minimum elong	-8289 Jun 03 j 04:33	8°♈53'07	0°07'14
behind sun begin	-8289 Jun 02 j 22:24	8°♈52'10	
behind sun end	-8289 Jun 03 j 10:43	8°♈54'04	
morning rise	-8289 Jun 19 j 11:14	9°♈54'15	
retrograde	-8289 Sep 18 j 10:48	13°♈15'37	
opposition	-8289 Nov 30 j 17:09	11°♈13'36	-0°05'18
min. Earth dist.	-8289 Dec 01 j 22:32	11°♈10'24	17.29853 AU
direct	-8288 Feb 15 j 09:24	9°♈06'46	
evening set	-8288 May 21 j 21:19	12°♈38'08	

Attention, astronomical year style is used: The year -8288 in astronomical counting style is the year 8289 BCE in historical counting style.

max. Earth dist.	-8288 Jun 05 j 22:20	13°♈34'39	19.29037 AU	
conjunction	-8288 Jun 07 j 07:12	13°♈39'50	-0°02'14	
minimum elong	-8288 Jun 07 j 07:11	13°♈39'50	0°02'10	
behind sun begin	-8288 Jun 07 j 00:29	13°♈38'48		
behind sun end	-8288 Jun 07 j 13:53	13°♈40'52		
morning rise	-8288 Jun 23 j 12:45	14°♈40'54		
retrograde	-8288 Sep 22 j 12:17	18°♈02'26		
asc. node	-8288 Nov 13 j 09:46	16°♈54'13		
opposition	-8288 Dec 04 j 18:45	16°♈00'24	0°00'20	
min. Earth dist.	-8288 Dec 05 j 22:18	15°♈57'24	17.28475 AU	
direct	-8287 Feb 19 j 13:58	13°♈53'32		
evening set	-8287 May 27 j 01:01	17°♈25'09		
max. Earth dist.	-8287 Jun 11 j 03:34	18°♈21'59	19.27986 AU	
conjunction	-8287 Jun 12 j 09:47	18°♈26'46	0°02'57	
minimum elong	-8287 Jun 12 j 09:47	18°♈26'46	0°03'04	
behind sun begin	-8287 Jun 12 j 03:07	18°♈25'44		
behind sun end	-8287 Jun 12 j 16:26	18°♈27'48		
morning rise	-8287 Jun 28 j 13:53	19°♈27'44		
retrograde	-8287 Sep 27 j 11:31	22°♈49'24		
opposition	-8287 Dec 09 j 20:52	20°♈47'23	0°05'59	
min. Earth dist.	-8287 Dec 10 j 23:44	20°♈44'27	17.27759 AU	
direct	-8286 Feb 24 j 16:47	18°♈40'33		
evening set	-8286 Jun 01 j 04:36	22°♈12'17		
max. Earth dist.	-8286 Jun 16 j 06:13	23°♈09'05	19.27621 AU	
conjunction	-8286 Jun 17 j 11:54	23°♈13'47	0°07'58	
minimum elong	-8286 Jun 17 j 11:53	23°♈13'47	0°08'07	
behind sun begin	-8286 Jun 17 j 05:57	23°♈12'52		
behind sun end	-8286 Jun 17 j 17:50	23°♈14'42		
morning rise	-8286 Jul 03 j 14:53	24°♈14'39		
retrograde	-8286 Oct 02 j 12:33	27°♈36'24		
opposition	-8286 Dec 14 j 23:17	25°♈34'25	0°11'35	
min. Earth dist.	-8286 Dec 16 j 00:13	25°♈31'44	17.27735 AU	
direct	-8285 Mar 01 j 21:57	23°♈27'42		
evening set	-8285 Jun 06 j 07:41	26°♈59'27		
max. Earth dist.	-8285 Jun 21 j 11:08	27°♈56'36	19.27936 AU	
conjunction	-8285 Jun 22 j 13:47	28°♈00'49	0°12'56	
minimum elong	-8285 Jun 22 j 13:47	28°♈00'49	0°13'09	
behind sun begin	-8285 Jun 22 j 09:50	28°♈00'12		
behind sun end	-8285 Jun 22 j 17:45	28°♈01'26		
morning rise	-8285 Jul 08 j 15:19	29°♈01'33		
	-8285 Jul 24 j 22:34	0°♉		
retrograde	-8285 Oct 07 j 11:52	2°♉23'21		
opposition	-8285 Dec 20 j 02:12	0°♉21'28	0°17'06	
min. Earth dist.	-8285 Dec 21 j 01:46	0°♉18'55	17.28373 AU	
	-8285 Dec 28 j 10:00	30°℞♈		
direct	-8284 Mar 06 j 02:33	28°♈14'56		
	-8284 May 10 j 04:56	0°♉		
evening set	-8284 Jun 10 j 10:34	1°♉46'33		
conjunction	-8284 Jun 26 j 15:10	2°♉47'46	0°17'50	
minimum elong	-8284 Jun 26 j 15:10	2°♉47'46	0°18'05	
max. Earth dist.	-8284 Jun 25 j 13:30	2°♉43'41	19.28912 AU	
morning rise	-8284 Jul 12 j 15:33	3°♉48'21		
retrograde	-8284 Oct 11 j 12:04	7°♉10'10		
opposition	-8284 Dec 24 j 05:23	5°♉08'23	0°22'31	
min. Earth dist.	-8284 Dec 25 j 03:09	5°♉06'02	17.29669 AU	
direct	-8283 Mar 11 j 07:36	3°♉02'04		
evening set	-8283 Jun 15 j 12:42	6°♉33'27		
conjunction	-8283 Jul 01 j 16:05	7°♉34'29	0°22'36	
minimum elong	-8283 Jul 01 j 16:05	7°♉34'29	0°22'53	
max. Earth dist.	-8283 Jun 30 j 17:30	7°♉30'54	19.30509 AU	
morning rise	-8283 Jul 17 j 15:09	8°♉34'53		
retrograde	-8283 Oct 16 j 12:00	11°♉56'41		
opposition	-8283 Dec 29 j 08:48	9°♉55'01	0°27'46	
min. Earth dist.	-8283 Dec 30 j 04:41	9°♉52'53	17.31537 AU	
direct	-8282 Mar 16 j 12:54	7°♉48'57		
evening set	-8282 Jun 20 j 14:38	11°♉19'59		
conjunction	-8282 Jul 06 j 16:32	12°♉20'48	0°27'13	
minimum elong	-8282 Jul 06 j 16:32	12°♉20'48	0°27'33	
max. Earth dist.	-8282 Jul 05 j 19:13	12°♉17'25	19.32651 AU	
morning rise	-8282 Jul 22 j 14:26	13°♉21'02		
	-8282 Aug 20 j 08:20	15°♉		
retrograde	-8282 Oct 21 j 11:30	16°♉42'44		
	-8282 Dec 27 j 03:35	15°℞♉		
opposition	-8281 Jan 03 j 12:18	14°♉41'11	0°32'49	
min. Earth dist.	-8281 Jan 04 j 06:45	14°♉39'13	17.33942 AU	
direct	-8281 Mar 21 j 16:57	12°♉35'22		
	-8281 Jun 07 j 03:32	15°♉		
evening set	-8281 Jun 25 j 15:54	16°♉05'56		
conjunction	-8281 Jul 11 j 16:31	17°♉06'31	0°31'39	
minimum elong	-8281 Jul 11 j 16:31	17°♉06'31	0°31'59	
max. Earth dist.	-8281 Jul 10 j 21:59	17°♉03'34	19.35302 AU	
morning rise	-8281 Jul 27 j 13:11	18°♉06'32		
retrograde	-8281 Oct 26 j 11:57	21°♉28'05		
opposition	-8280 Jan 08 j 16:00	19°♉26'39	0°37'38	
min. Earth dist.	-8280 Jan 09 j 08:00	19°♉24'57	17.36813 AU	
direct	-8280 Mar 25 j 22:15	17°♉21'08		
evening set	-8280 Jun 29 j 16:27	20°♉51'04		
conjunction	-8280 Jul 15 j 15:42	21°♉51'24	0°35'50	
minimum elong	-8280 Jul 15 j 15:42	21°♉51'24	0°36'13	
max. Earth dist.	-8280 Jul 14 j 22:58	21°♉48'45	19.38394 AU	
morning rise	-8280 Jul 31 j 11:16	22°♉51'13		
retrograde	-8280 Oct 30 j 10:58	26°♉12'34		
opposition	-8279 Jan 12 j 19:44	24°♉11'13	0°42'10	
min. Earth dist.	-8279 Jan 13 j 10:25	24°♉09'40	17.40125 AU	
direct	-8279 Mar 31 j 01:22	22°♉05'58		
evening set	-8279 Jul 04 j 16:18	25°♉35'11		
conjunction	-8279 Jul 20 j 14:19	26°♉35'15	0°39'46	
minimum elong	-8279 Jul 20 j 14:19	26°♉35'15	0°40'11	
max. Earth dist.	-8279 Jul 20 j 00:01	26°♉32'59	19.41911 AU	
morning rise	-8279 Aug 05 j 08:51	27°♉34'50		
	-8279 Sep 20 j 03:11	0°♊		
retrograde	-8279 Nov 04 j 11:03	0°♊55'54		
	-8279 Dec 21 j 19:44	30°℞♉		
opposition	-8278 Jan 17 j 23:00	28°♉54'38	0°46'24	
min. Earth dist.	-8278 Jan 18 j 10:47	28°♉53'24	17.43827 AU	
direct	-8278 Apr 05 j 06:03	26°♉49'41		
	-8278 Jul 04 j 17:19	0°♊		
evening set	-8278 Jul 09 j 15:22	0°♊18'03		
conjunction	-8278 Jul 25 j 12:12	1°♊17'52	0°43'25	
minimum elong	-8278 Jul 25 j 12:11	1°♊17'52	0°43'51	
max. Earth dist.	-8278 Jul 25 j 00:11	1°♊15'58	19.45802 AU	
morning rise	-8278 Aug 10 j 05:42	2°♊17'12		
retrograde	-8278 Nov 09 j 09:11	5°♊37'58		
opposition	-8277 Jan 23 j 02:19	3°♊36'45	0°50'17	
min. Earth dist.	-8277 Jan 23 j 12:51	3°♊35'38	17.47911 AU	
direct	-8277 Apr 10 j 08:29	1°♊32'04		
evening set	-8277 Jul 14 j 13:27	4°♊59'30		
conjunction	-8277 Jul 30 j 09:05	5°♊59'01	0°46'45	
minimum elong	-8277 Jul 30 j 09:05	5°♊59'01	0°47'14	
max. Earth dist.	-8277 Jul 29 j 23:21	5°♊57'29	19.50078 AU	
morning rise	-8277 Aug 15 j 01:45	6°♊58'06		
retrograde	-8277 Nov 14 j 08:13	10°♊18'31		

Attention, astronomical year style is used: The year -8276 in astronomical counting style is the year 8277 BCE in historical counting style.

opposition	-8276 Jan 28 j 05:12	8°♊17'20	0°53'49
min. Earth dist.	-8276 Jan 28 j 12:19	8°♊16'35	17.52365 AU
direct	-8276 Apr 14 j 12:37	6°♊12'57	
evening set	-8276 Jul 18 j 10:36	9°♊39'21	
conjunction	-8276 Aug 03 j 05:13	10°♊38'35	0°49'45
minimum elong	-8276 Aug 03 j 05:13	10°♊38'35	0°50'15
max. Earth dist.	-8276 Aug 02 j 22:31	10°♊37'31	19.54723 AU
morning rise	-8276 Aug 18 j 21:00	11°♊37'24	
retrograde	-8276 Nov 18 j 05:11	14°♊57'25	
opposition	-8275 Feb 01 j 07:43	12°♊56'16	0°56'59
min. Earth dist.	-8275 Feb 01 j 13:24	12°♊55'40	17.57210 AU
direct	-8275 Apr 19 j 14:05	10°♊52'11	
evening set	-8275 Jul 23 j 06:44	14°♊17'28	
conjunction	-8275 Aug 08 j 00:16	15°♊16'24	0°52'25
minimum elong	-8275 Aug 08 j 00:16	15°♊16'24	0°52'57
max. Earth dist.	-8275 Aug 07 j 19:44	15°♊15'41	19.59768 AU
morning rise	-8275 Aug 23 j 15:28	16°♊14'58	
retrograde	-8275 Nov 23 j 03:02	19°♊34'32	
opposition	-8274 Feb 06 j 09:34	17°♊33'26	0°59'44
min. Earth dist.	-8274 Feb 06 j 11:35	17°♊33'13	17.62446 AU
direct	-8274 Apr 24 j 16:45	15°♊29'40	
evening set	-8274 Jul 28 j 01:53	18°♊53'48	
conjunction	-8274 Aug 12 j 18:34	19°♊52'25	0°54'44
minimum elong	-8274 Aug 12 j 18:34	19°♊52'25	0°55'16
max. Earth dist.	-8274 Aug 12 j 17:33	19°♊52'16	19.65195 AU
morning rise	-8274 Aug 28 j 08:57	20°♊50'44	
retrograde	-8274 Nov 27 j 22:34	24°♊09'50	
opposition	-8273 Feb 11 j 11:00	22°♊08'47	1°02'06
min. Earth dist.	-8273 Feb 11 j 11:18	22°♊08'46	17.68077 AU
direct	-8273 Apr 29 j 17:29	20°♊05'25	
evening set	-8273 Aug 01 j 20:12	23°♊28'20	
conjunction	-8273 Aug 17 j 11:53	24°♊26'38	0°56'41
minimum elong	-8273 Aug 17 j 11:53	24°♊26'38	0°57'13
max. Earth dist.	-8273 Aug 17 j 12:53	24°♊26'47	19.71032 AU
morning rise	-8273 Sep 02 j 01:51	25°♊24'41	
retrograde	-8273 Dec 02 j 19:08	28°♊43'20	
opposition	-8272 Feb 16 j 11:48	26°♊42'22	1°04'04
min. Earth dist.	-8272 Feb 16 j 08:17	26°♊42'44	17.74109 AU
direct	-8272 May 03 j 18:12	24°♊39'23	
evening set	-8272 Aug 05 j 13:20	28°♊01'04	
conjunction	-8272 Aug 21 j 04:26	28°♊59'05	0°58'17
minimum elong	-8272 Aug 21 j 04:25	28°♊59'05	0°58'50
max. Earth dist.	-8272 Aug 21 j 09:11	28°♊59'49	19.77242 AU
morning rise	-8272 Sep 05 j 17:49	29°♊56'52	
	-8272 Sep 06 j 14:28	0°♋	
retrograde	-8272 Dec 06 j 13:43	3°♋15'02	
opposition	-8271 Feb 20 j 12:06	1°♋14'11	1°05'36
min. Earth dist.	-8271 Feb 20 j 06:44	1°♋14'45	17.80489 AU
	-8271 Mar 24 j 13:02	30°℞♊	
direct	-8271 May 08 j 17:27	29°♊11'39	
	-8271 Jun 21 j 03:23	0°♋	
evening set	-8271 Aug 10 j 05:48	2°♋32'04	
conjunction	-8271 Aug 25 j 20:06	3°♋29'47	0°59'30
minimum elong	-8271 Aug 25 j 20:06	3°♋29'47	1°00'02
max. Earth dist.	-8271 Aug 26 j 02:31	3°♋30'46	19.83782 AU
morning rise	-8271 Sep 10 j 09:18	4°♋27'19	
retrograde	-8271 Dec 11 j 08:50	7°♋44'59	
opposition	-8270 Feb 25 j 11:26	5°♋44'17	1°06'44
min. Earth dist.	-8270 Feb 25 j 02:45	5°♋45'11	17.87166 AU
direct	-8270 May 13 j 15:56	3°♋42'12	
evening set	-8270 Aug 14 j 21:15	7°♋01'21	

conjunction	-8270 Aug 30 j 11:07	7°♋58'46	1°00'21
minimum elong	-8270 Aug 30 j 11:07	7°♋58'46	1°00'55
max. Earth dist.	-8270 Aug 30 j 21:10	8°♋00'19	19.90571 AU
morning rise	-8270 Sep 14 j 23:54	8°♋56'03	
retrograde	-8270 Dec 16 j 02:15	12°♋13'13	
opposition	-8269 Mar 02 j 10:27	10°♋12'41	1°07'27
min. Earth dist.	-8269 Mar 01 j 23:58	10°♋13'46	17.94049 AU
direct	-8269 May 18 j 13:07	8°♋11'05	
evening set	-8269 Aug 19 j 11:54	11°♋28'55	
conjunction	-8269 Sep 04 j 01:07	12°♋26'02	1°00'50
minimum elong	-8269 Sep 04 j 01:07	12°♋26'02	1°01'23
max. Earth dist.	-8269 Sep 04 j 12:34	12°♋27'48	19.97535 AU
morning rise	-8269 Sep 19 j 13:55	13°♋23'05	
retrograde	-8269 Dec 20 j 20:37	16°♋39'45	
opposition	-8268 Mar 06 j 08:45	14°♋39'21	1°07'46
min. Earth dist.	-8268 Mar 05 j 19:27	14°♋40'43	18.01076 AU
direct	-8268 May 22 j 09:31	12°♋38'12	
evening set	-8268 Aug 23 j 01:42	15°♋54'44	
conjunction	-8268 Sep 07 j 14:42	16°♋51'35	1°00'57
minimum elong	-8268 Sep 07 j 14:42	16°♋51'35	1°01'29
max. Earth dist.	-8268 Sep 08 j 05:29	16°♋53'51	20.04588 AU
morning rise	-8268 Sep 23 j 03:16	17°♋48'24	
retrograde	-8268 Dec 24 j 12:57	21°♋04'30	
opposition	-8267 Mar 11 j 06:13	19°♋04'16	1°07'39
min. Earth dist.	-8267 Mar 10 j 15:14	19°♋05'47	18.08143 AU
direct	-8267 May 27 j 04:41	17°♋03'34	
evening set	-8267 Aug 27 j 14:51	20°♋18'46	
conjunction	-8267 Sep 12 j 03:24	21°♋15'20	1°00'42
minimum elong	-8267 Sep 12 j 03:24	21°♋15'20	1°01'14
max. Earth dist.	-8267 Sep 12 j 19:05	21°♋17'44	20.11650 AU
morning rise	-8267 Sep 27 j 16:10	22°♋11'56	
retrograde	-8267 Dec 29 j 06:05	25°♋27'30	
min. Earth dist.	-8266 Mar 15 j 09:52	23°♋29'06	18.15188 AU
opposition	-8266 Mar 16 j 02:58	23°♋27'21	1°07'09
direct	-8266 May 31 j 23:04	21°♋27'04	
evening set	-8266 Sep 01 j 02:59	24°♋40'57	
conjunction	-8266 Sep 16 j 15:29	25°♋37'16	1°00'06
minimum elong	-8266 Sep 16 j 15:30	25°♋37'16	1°00'36
max. Earth dist.	-8266 Sep 17 j 10:08	25°♋40'06	20.18640 AU
morning rise	-8266 Oct 02 j 04:11	26°♋33'38	
retrograde	-8265 Jan 02 j 21:44	29°♋48'38	
opposition	-8265 Mar 20 j 22:59	27°♋48'36	1°06'16
min. Earth dist.	-8265 Mar 20 j 04:10	27°♋50'30	18.22118 AU
direct	-8265 Jun 05 j 17:15	25°♋48'42	
evening set	-8265 Sep 05 j 14:34	29°♋01'15	
conjunction	-8265 Sep 21 j 02:49	29°♋57'18	0°59'09
minimum elong	-8265 Sep 21 j 02:49	29°♋57'18	0°59'40
	-8265 Sep 21 j 20:35	0°♌	
max. Earth dist.	-8265 Sep 21 j 22:08	0°♌00'14	20.25505 AU
morning rise	-8265 Oct 06 j 15:54	0°♌53'29	
retrograde	-8264 Jan 07 j 13:17	4°♌07'54	
opposition	-8264 Mar 24 j 18:11	2°♌07'54	1°05'00
min. Earth dist.	-8264 Mar 23 j 21:46	2°♌09'59	18.28915 AU
direct	-8264 Jun 09 j 09:31	0°♌08'22	
evening set	-8264 Sep 09 j 01:05	3°♌19'35	
conjunction	-8264 Sep 24 j 13:33	4°♌15'25	0°57'52
minimum elong	-8264 Sep 24 j 13:33	4°♌15'25	0°58'21
max. Earth dist.	-8264 Sep 25 j 11:33	4°♌18'44	20.32209 AU
morning rise	-8264 Oct 10 j 02:49	5°♌11'23	
retrograde	-8263 Jan 11 j 04:08	8°♌25'12	
opposition	-8263 Mar 29 j 12:25	6°♌25'15	1°03'23

Attention, astronomical year style is used: The year -8263 in astronomical counting style is the year 8264 BCE in historical counting style.

min. Earth dist.	-8263 Mar 28 j 14:17	6°♌27'29	18.35520 AU
direct	-8263 Jun 14 j 02:48	4°♌26'02	
evening set	-8263 Sep 13 j 11:03	7°♌35'57	
conjunction	-8263 Sep 28 j 23:26	8°♌31'33	0°56'17
minimum elong	-8263 Sep 28 j 23:26	8°♌31'33	0°56'45
max. Earth dist.	-8263 Sep 29 j 22:00	8°♌34'56	20.38723 AU
morning rise	-8263 Oct 14 j 13:15	9°♌27'20	
retrograde	-8262 Jan 15 j 17:40	12°♌40'33	
min. Earth dist.	-8262 Apr 02 j 06:27	10°♌42'57	18.41955 AU
opposition	-8262 Apr 03 j 05:42	10°♌40'36	1°01'26
direct	-8262 Jun 18 j 17:06	8°♌41'40	
evening set	-8262 Sep 17 j 20:03	11°♌50'19	
conjunction	-8262 Oct 03 j 08:46	12°♌45'42	0°54'24
minimum elong	-8262 Oct 03 j 08:46	12°♌45'42	0°54'51
max. Earth dist.	-8262 Oct 04 j 09:57	12°♌49'28	20.45070 AU
morning rise	-8262 Oct 18 j 22:54	13°♌41'18	
	-8262 Nov 11 j 19:58	15°♌	
retrograde	-8261 Jan 20 j 07:12	16°♌53'57	
	-8261 Apr 05 j 10:39	15°℞♌	
opposition	-8261 Apr 07 j 22:09	14°♌53'59	0°59'10
min. Earth dist.	-8261 Apr 06 j 20:58	14°♌56'32	18.48219 AU
direct	-8261 Jun 23 j 08:54	12°♌55'21	
	-8261 Sep 03 j 08:49	15°♌	
evening set	-8261 Sep 22 j 04:24	16°♌02'45	
conjunction	-8261 Oct 07 j 17:13	16°♌57'56	0°52'15
minimum elong	-8261 Oct 07 j 17:14	16°♌57'56	0°52'40
max. Earth dist.	-8261 Oct 08 j 19:06	17°♌01'48	20.51262 AU
morning rise	-8261 Oct 23 j 08:04	17°♌53'23	
retrograde	-8260 Jan 24 j 19:22	21°♌05'29	
min. Earth dist.	-8260 Apr 10 j 11:44	19°♌08'08	18.54354 AU
opposition	-8260 Apr 11 j 13:50	19°♌05'31	0°56'36
direct	-8260 Jun 26 j 21:07	17°♌07'09	
evening set	-8260 Sep 25 j 12:06	20°♌13'23	
conjunction	-8260 Oct 11 j 01:26	21°♌08'23	0°49'50
minimum elong	-8260 Oct 11 j 01:26	21°♌08'23	0°50'14
max. Earth dist.	-8260 Oct 12 j 05:43	21°♌12'35	20.57322 AU
morning rise	-8260 Oct 26 j 16:44	22°♌03'42	
retrograde	-8259 Jan 28 j 07:31	25°♌15'13	
min. Earth dist.	-8259 Apr 15 j 00:18	23°♌18'07	18.60341 AU
opposition	-8259 Apr 16 j 04:19	23°♌15'17	0°53'46
direct	-8259 Jul 01 j 11:01	21°♌17'13	
evening set	-8259 Sep 29 j 19:22	24°♌22'21	
conjunction	-8259 Oct 15 j 08:57	25°♌17'12	0°47'11
minimum elong	-8259 Oct 15 j 08:57	25°♌17'12	0°47'32
max. Earth dist.	-8259 Oct 16 j 13:40	25°♌21'26	20.63235 AU
morning rise	-8259 Oct 31 j 01:04	26°♌12'22	
retrograde	-8258 Feb 01 j 18:56	29°♌23'25	
opposition	-8258 Apr 20 j 18:17	27°♌23'31	0°50'40
min. Earth dist.	-8258 Apr 19 j 13:43	27°♌26'24	18.66186 AU
direct	-8258 Jul 05 j 21:03	25°♌25'44	
evening set	-8258 Oct 04 j 01:49	28°♌29'50	
conjunction	-8258 Oct 19 j 16:02	29°♌24'32	0°44'17
minimum elong	-8258 Oct 19 j 16:03	29°♌24'32	0°44'38
max. Earth dist.	-8258 Oct 20 j 22:52	29°♌29'05	20.68990 AU
	-8258 Oct 29 j 17:24	0°♍	
morning rise	-8258 Nov 04 j 08:44	0°♍19'36	
retrograde	-8257 Feb 06 j 06:05	3°♍30'11	
min. Earth dist.	-8257 Apr 24 j 01:00	1°♍33'25	18.71837 AU
opposition	-8257 Apr 25 j 07:25	1°♍30'22	0°47'19
	-8257 Jun 06 j 23:35	30°℞♌	
direct	-8257 Jul 10 j 09:11	29°♌32'54	
	-8257 Aug 11 j 19:38	0°♍	
evening set	-8257 Oct 08 j 08:09	2°♍36'01	
conjunction	-8257 Oct 23 j 22:46	3°♍30'35	0°41'11
minimum elong	-8257 Oct 23 j 22:47	3°♍30'35	0°41'29
max. Earth dist.	-8257 Oct 25 j 05:49	3°♍35'09	20.74533 AU
morning rise	-8257 Nov 08 j 16:26	4°♍25'34	
retrograde	-8256 Feb 10 j 16:58	7°♍35'43	
opposition	-8256 Apr 28 j 19:52	5°♍35'59	0°43'45
min. Earth dist.	-8256 Apr 27 j 13:29	5°♍39'02	18.77267 AU
direct	-8256 Jul 13 j 17:42	3°♍38'49	
evening set	-8256 Oct 11 j 13:55	6°♍41'02	
conjunction	-8256 Oct 27 j 05:21	7°♍35'30	0°37'53
minimum elong	-8256 Oct 27 j 05:21	7°♍35'30	0°38'10
max. Earth dist.	-8256 Oct 28 j 13:58	7°♍40'16	20.79823 AU
morning rise	-8256 Nov 11 j 23:43	8°♍30'24	
retrograde	-8255 Feb 14 j 03:30	11°♍40'09	
min. Earth dist.	-8255 May 01 j 23:44	9°♍43'41	18.82393 AU
opposition	-8255 May 03 j 07:30	9°♍40'30	0°39'59
direct	-8255 Jul 18 j 04:00	7°♍43'37	
evening set	-8255 Oct 15 j 19:36	10°♍45'02	
conjunction	-8255 Oct 31 j 11:31	11°♍39'23	0°34'24
minimum elong	-8255 Oct 31 j 11:31	11°♍39'23	0°34'38
max. Earth dist.	-8255 Nov 01 j 19:56	11°♍44'07	20.84775 AU
morning rise	-8255 Nov 16 j 06:53	12°♍34'13	
retrograde	-8254 Feb 18 j 13:13	15°♍43'36	
min. Earth dist.	-8254 May 06 j 11:30	13°♍47'10	18.87168 AU
opposition	-8254 May 07 j 18:38	13°♍44'02	0°36'02
direct	-8254 Jul 22 j 11:39	11°♍47'26	
evening set	-8254 Oct 20 j 00:55	14°♍48'04	
conjunction	-8254 Nov 04 j 17:43	15°♍42'21	0°30'46
minimum elong	-8254 Nov 04 j 17:43	15°♍42'21	0°30'57
max. Earth dist.	-8254 Nov 06 j 03:13	15°♍47'13	20.89353 AU
morning rise	-8254 Nov 20 j 13:51	16°♍37'08	
retrograde	-8253 Feb 22 j 23:26	19°♍46'11	
min. Earth dist.	-8253 May 10 j 20:57	17°♍49'54	18.91526 AU
opposition	-8253 May 12 j 05:04	17°♍46'41	0°31'54
direct	-8253 Jul 26 j 20:36	15°♍50'18	
evening set	-8253 Oct 24 j 06:11	18°♍50'14	
conjunction	-8253 Nov 08 j 23:37	19°♍44'27	0°26'59
minimum elong	-8253 Nov 08 j 23:37	19°♍44'27	0°27'09
max. Earth dist.	-8253 Nov 10 j 08:29	19°♍49'13	20.93477 AU
morning rise	-8253 Nov 24 j 20:53	20°♍39'12	
retrograde	-8252 Feb 27 j 07:59	23°♍47'56	
min. Earth dist.	-8252 May 14 j 08:08	21°♍51'34	18.95413 AU
opposition	-8252 May 15 j 15:05	21°♍48'28	0°27'38
direct	-8252 Jul 30 j 03:18	19°♍52'15	
evening set	-8252 Oct 27 j 11:15	22°♍51'33	
conjunction	-8252 Nov 12 j 05:41	23°♍45'44	0°23'05
minimum elong	-8252 Nov 12 j 05:41	23°♍45'44	0°23'12
max. Earth dist.	-8252 Nov 13 j 15:03	23°♍50'33	20.97110 AU
morning rise	-8252 Nov 28 j 03:47	24°♍40'27	
retrograde	-8251 Mar 02 j 17:43	27°♍48'52	
min. Earth dist.	-8251 May 18 j 16:40	25°♍52'34	18.98777 AU
opposition	-8251 May 20 j 00:10	25°♍49'25	0°23'15
direct	-8251 Aug 03 j 11:27	23°♍53'20	
evening set	-8251 Oct 31 j 16:16	26°♍52'03	
conjunction	-8251 Nov 16 j 11:25	27°♍46'12	0°19'05
minimum elong	-8251 Nov 16 j 11:25	27°♍46'12	0°19'11
max. Earth dist.	-8251 Nov 17 j 19:46	27°♍50'51	21.00210 AU
morning rise	-8251 Dec 02 j 10:41	28°♍40'55	

Attention, astronomical year style is used: The year -8251 in astronomical counting style is the year 8252 BCE in historical counting style.

	-8251 Dec 27 j 12:03	0°♎	
retrograde	-8250 Mar 07 j 00:57	1°♎49'02	
	-8250 May 20 j 00:38	30°℞♍	
min. Earth dist.	-8250 May 23 j 02:58	29°♍52'34	19.01619 AU
opposition	-8250 May 24 j 09:01	29°♍49'34	0°18'47
direct	-8250 Aug 07 j 17:01	27°♍53'33	
	-8250 Oct 19 j 21:24	0°♎	
evening set	-8250 Nov 04 j 20:48	0°♎51'43	
conjunction	-8250 Nov 20 j 17:03	1°♎45'52	0°15'01
minimum elong	-8250 Nov 20 j 17:03	1°♎45'52	0°15'04
behind sun begin	-8250 Nov 20 j 14:37	1°♎45'31	
behind sun end	-8250 Nov 20 j 19:28	1°♎46'12	
max. Earth dist.	-8250 Nov 22 j 01:45	1°♎50'33	21.02802 AU
morning rise	-8250 Dec 06 j 17:14	2°♎40'34	
retrograde	-8249 Mar 11 j 10:09	5°♎48'25	
min. Earth dist.	-8249 May 27 j 10:36	3°♎51'57	19.03952 AU
opposition	-8249 May 28 j 17:08	3°♎48'53	0°14'14
direct	-8249 Aug 12 j 00:20	1°♎52'55	
evening set	-8249 Nov 09 j 01:34	4°♎50'37	
conjunction	-8249 Nov 24 j 22:36	5°♎44'46	0°10'54
minimum elong	-8249 Nov 24 j 22:37	5°♎44'46	0°10'55
behind sun begin	-8249 Nov 24 j 17:36	5°♎44'04	
behind sun end	-8249 Nov 25 j 03:38	5°♎45'28	
max. Earth dist.	-8249 Nov 26 j 06:14	5°♎49'17	21.04896 AU
morning rise	-8249 Dec 10 j 23:59	6°♎39'30	
retrograde	-8248 Mar 14 j 16:33	9°♎47'05	
min. Earth dist.	-8248 May 30 j 19:49	7°♎50'23	19.05824 AU
opposition	-8248 Jun 01 j 00:43	7°♎47'29	0°09'38
direct	-8248 Aug 15 j 05:03	5°♎51'30	
evening set	-8248 Nov 12 j 06:07	8°♎48'49	
conjunction	-8248 Nov 28 j 04:18	9°♎42'59	0°06'45
minimum elong	-8248 Nov 28 j 04:17	9°♎42'59	0°06'43
behind sun begin	-8248 Nov 27 j 22:07	9°♎42'08	
behind sun end	-8248 Nov 28 j 10:28	9°♎43'50	
max. Earth dist.	-8248 Nov 29 j 12:05	9°♎47'31	21.06555 AU
morning rise	-8248 Dec 14 j 06:36	10°♎37'44	
retrograde	-8247 Mar 19 j 01:16	13°♎45'07	
min. Earth dist.	-8247 Jun 04 j 02:22	11°♎48'23	19.07269 AU
opposition	-8247 Jun 05 j 07:42	11°♎45'26	0°05'01
direct	-8247 Aug 19 j 11:07	9°♎49'27	
evening set	-8247 Nov 16 j 10:44	12°♎46'27	
conjunction	-8247 Dec 02 j 09:44	13°♎40'39	0°02'34
minimum elong	-8247 Dec 02 j 09:43	13°♎40'39	0°02'30
behind sun begin	-8247 Dec 02 j 03:07	13°♎39'44	
behind sun end	-8247 Dec 02 j 16:20	13°♎41'34	
max. Earth dist.	-8247 Dec 03 j 16:23	13°♎45'01	21.07796 AU
morning rise	-8247 Dec 18 j 13:11	14°♎35'27	
retrograde	-8246 Mar 23 j 07:35	17°♎42'40	
min. Earth dist.	-8246 Jun 08 j 10:44	15°♎45'43	19.08327 AU
opposition	-8246 Jun 09 j 14:27	15°♎42'55	0°00'23
desc. node	-8246 Jul 09 j 08:50	14°♎35'25	
direct	-8246 Aug 23 j 15:06	13°♎46'54	
evening set	-8246 Nov 20 j 15:21	16°♎43'41	
conjunction	-8246 Dec 06 j 15:30	17°♎37'56	-0°01'44
minimum elong	-8246 Dec 06 j 15:30	17°♎37'56	0°01'50
behind sun begin	-8246 Dec 06 j 08:52	17°♎37'02	
behind sun end	-8246 Dec 06 j 22:07	17°♎38'51	
max. Earth dist.	-8246 Dec 07 j 22:11	17°♎42'18	21.08676 AU
morning rise	-8246 Dec 22 j 19:55	18°♎32'48	
retrograde	-8245 Mar 27 j 16:17	21°♎39'53	
opposition	-8245 Jun 13 j 20:38	19°♎40'06	-0°04'15
min. Earth dist.	-8245 Jun 12 j 16:36	19°♎42'56	19.09018 AU
direct	-8245 Aug 27 j 20:29	17°♎44'03	
evening set	-8245 Nov 24 j 20:17	20°♎40'43	
conjunction	-8245 Dec 10 j 21:20	21°♎35'02	-0°05'56
minimum elong	-8245 Dec 10 j 21:20	21°♎35'02	0°06'04
behind sun begin	-8245 Dec 10 j 15:02	21°♎34'10	
behind sun end	-8245 Dec 11 j 03:39	21°♎35'54	
max. Earth dist.	-8245 Dec 12 j 02:39	21°♎39'11	21.09181 AU
morning rise	-8245 Dec 27 j 02:57	22°♎29'58	
retrograde	-8244 Mar 30 j 23:03	25°♎36'59	
min. Earth dist.	-8244 Jun 16 j 00:36	23°♎39'48	19.09339 AU
opposition	-8244 Jun 17 j 02:45	23°♎37'10	-0°08'51
direct	-8244 Aug 30 j 23:33	21°♎41'06	
evening set	-8244 Nov 28 j 01:21	24°♎37'43	
conjunction	-8244 Dec 14 j 03:35	25°♎32'07	-0°10'04
minimum elong	-8244 Dec 14 j 03:35	25°♎32'07	0°10'14
behind sun begin	-8244 Dec 13 j 22:18	25°♎31'23	
behind sun end	-8244 Dec 14 j 08:52	25°♎32'51	
max. Earth dist.	-8244 Dec 15 j 08:33	25°♎36'14	21.09318 AU
morning rise	-8244 Dec 30 j 10:06	26°♎27'08	
retrograde	-8243 Apr 04 j 08:05	29°♎34'07	
min. Earth dist.	-8243 Jun 20 j 06:12	27°♎36'56	19.09274 AU
opposition	-8243 Jun 21 j 08:20	27°♎34'18	-0°13'25
direct	-8243 Sep 04 j 04:52	25°♎38'12	
evening set	-8243 Dec 02 j 06:50	28°♎34'52	
conjunction	-8243 Dec 18 j 09:59	29°♎29'22	-0°14'10
minimum elong	-8243 Dec 18 j 09:59	29°♎29'22	0°14'23
behind sun begin	-8243 Dec 18 j 06:59	29°♎28'57	
behind sun end	-8243 Dec 18 j 12:58	29°♎29'47	
max. Earth dist.	-8243 Dec 19 j 13:18	29°♎33'14	21.09053 AU
	-8243 Dec 27 j 10:19	0°♏	
morning rise	-8242 Jan 03 j 17:39	0°♏24'30	
retrograde	-8242 Apr 08 j 15:00	3°♏31'30	
opposition	-8242 Jun 25 j 14:04	1°♏31'40	-0°17'56
min. Earth dist.	-8242 Jun 24 j 14:08	1°♏34'06	19.08804 AU
	-8242 Aug 07 j 23:00	30°℞♎	
direct	-8242 Sep 08 j 07:22	29°♎35'32	
	-8242 Oct 09 j 04:24	0°♏	
evening set	-8242 Dec 06 j 12:29	2°♏32'20	
conjunction	-8242 Dec 22 j 16:49	3°♏26'57	-0°18'12
minimum elong	-8242 Dec 22 j 16:49	3°♏26'57	0°18'27
max. Earth dist.	-8242 Dec 23 j 19:28	3°♏30'44	21.08377 AU
morning rise	-8241 Jan 08 j 01:25	4°♏22'12	
retrograde	-8241 Apr 13 j 00:41	7°♏29'16	
opposition	-8241 Jun 29 j 19:31	5°♏29'27	-0°22'23
min. Earth dist.	-8241 Jun 28 j 20:01	5°♏31'50	19.07893 AU
direct	-8241 Sep 12 j 12:49	3°♏33'15	
evening set	-8241 Dec 10 j 18:56	6°♏30'15	
conjunction	-8241 Dec 27 j 00:11	7°♏25'01	-0°22'11
minimum elong	-8241 Dec 27 j 00:11	7°♏25'01	0°22'28
max. Earth dist.	-8241 Dec 28 j 00:42	7°♏28'29	21.07225 AU
morning rise	-8240 Jan 12 j 09:52	8°♏20'24	
retrograde	-8240 Apr 16 j 07:57	11°♏27'34	
min. Earth dist.	-8240 Jul 02 j 04:11	9°♏29'51	19.06494 AU
opposition	-8240 Jul 03 j 00:56	9°♏27'45	-0°26'43
direct	-8240 Sep 15 j 15:40	7°♏31'26	
evening set	-8240 Dec 14 j 01:46	10°♏28'46	
conjunction	-8240 Dec 30 j 08:12	11°♏23'40	-0°26'03
minimum elong	-8240 Dec 30 j 08:12	11°♏23'40	0°26'22
max. Earth dist.	-8240 Dec 31 j 07:22	11°♏26'57	21.05574 AU
morning rise	-8239 Jan 15 j 18:45	12°♏19'11	
	-8239 Mar 18 j 11:29	15°♏	

Attention, astronomical year style is used: The year -8239 in astronomical counting style is the year 8240 BCE in historical counting style.

retrograde	-8239 Apr	20 j 17:48	15°♏26'29	
	-8239 May	24 j 08:40	15°℞♏	
min. Earth dist.	-8239 Jul	06 j 10:25	13°♏28'41	19.04569 AU
opposition	-8239 Jul	07 j 06:21	13°♏26'39	-0°30'57
direct	-8239 Sep	19 j 21:13	11°♏30'13	
evening set	-8239 Dec	18 j 09:06	14°♏27'54	
	-8239 Dec	27 j 22:23	15°♏	
conjunction	-8238 Jan	03 j 16:25	15°♏22'58	-0°29'48
minimum elong	-8238 Jan	03 j 16:25	15°♏22'58	0°30'08
max. Earth dist.	-8238 Jan	04 j 13:04	15°♏25'53	21.03369 AU
morning rise	-8238 Jan	20 j 03:58	16°♏18'38	
retrograde	-8238 Apr	25 j 01:45	19°♏26'06	
opposition	-8238 Jul	11 j 11:59	17°♏26'12	-0°35'02
min. Earth dist.	-8238 Jul	10 j 18:56	17°♏27'57	19.02090 AU
direct	-8238 Sep	24 j 00:59	15°♏29'35	
evening set	-8238 Dec	22 j 16:56	18°♏27'42	
conjunction	-8237 Jan	08 j 01:26	19°♏22'57	-0°33'26
minimum elong	-8237 Jan	08 j 01:26	19°♏22'57	0°33'48
max. Earth dist.	-8237 Jan	08 j 20:21	19°♏25'38	21.00625 AU
morning rise	-8237 Jan	24 j 13:50	20°♏18'46	
retrograde	-8237 Apr	29 j 11:38	23°♏26'25	
opposition	-8237 Jul	15 j 17:25	21°♏26'27	-0°38'57
min. Earth dist.	-8237 Jul	15 j 01:23	21°♏28'05	18.99068 AU
direct	-8237 Sep	28 j 06:42	19°♏29'35	
evening set	-8237 Dec	27 j 01:28	22°♏28'12	
conjunction	-8236 Jan	12 j 10:53	23°♏23'38	-0°36'53
minimum elong	-8236 Jan	12 j 10:53	23°♏23'38	0°37'17
max. Earth dist.	-8236 Jan	13 j 03:05	23°♏25'56	20.97339 AU
morning rise	-8236 Jan	29 j 00:15	24°♏19'38	
retrograde	-8236 May	02 j 20:11	27°♏27'28	
opposition	-8236 Jul	18 j 23:06	25°♏27'24	-0°42'41
min. Earth dist.	-8236 Jul	18 j 10:05	25°♏28'44	18.95532 AU
direct	-8236 Oct	01 j 11:11	23°♏30'16	
evening set	-8236 Dec	30 j 10:21	26°♏29'25	
conjunction	-8235 Jan	15 j 20:52	27°♏25'04	-0°40'10
minimum elong	-8235 Jan	15 j 20:52	27°♏25'04	0°40'37
max. Earth dist.	-8235 Jan	16 j 11:14	27°♏27'07	20.93578 AU
morning rise	-8235 Feb	01 j 10:59	28°♏21'15	
	-8235 Mar	05 j 21:38	0°♐	
retrograde	-8235 May	07 j 06:25	1°♐29'18	
	-8235 Jul	10 j 13:32	30°℞♏	
opposition	-8235 Jul	23 j 04:38	29°♏29'06	-0°46'14
min. Earth dist.	-8235 Jul	22 j 16:36	29°♏30'21	18.91547 AU
direct	-8235 Oct	05 j 17:21	27°♏31'40	
	-8235 Dec	25 j 04:42	0°♐	
evening set	-8234 Jan	03 j 19:56	0°♐31'28	
conjunction	-8234 Jan	20 j 07:18	1°♐27'19	-0°43'16
minimum elong	-8234 Jan	20 j 07:18	1°♐27'19	0°43'43
max. Earth dist.	-8234 Jan	20 j 19:10	1°♐29'00	20.89392 AU
morning rise	-8234 Feb	05 j 22:15	2°♐23'42	
retrograde	-8234 May	11 j 15:07	5°♐32'01	
opposition	-8234 Jul	27 j 10:30	3°♐31'41	-0°49'33
min. Earth dist.	-8234 Jul	27 j 01:18	3°♐32'38	18.87184 AU
direct	-8234 Oct	09 j 22:14	1°♐33'55	
evening set	-8233 Jan	08 j 05:56	4°♐34'25	
conjunction	-8233 Jan	24 j 18:22	5°♐30'30	-0°46'10
minimum elong	-8233 Jan	24 j 18:22	5°♐30'30	0°46'38
max. Earth dist.	-8233 Jan	25 j 04:25	5°♐31'56	20.84870 AU
morning rise	-8233 Feb	10 j 10:03	6°♐27'04	
retrograde	-8233 May	16 j 02:32	9°♐35'42	
opposition	-8233 Jul	31 j 16:27	7°♐35'14	-0°52'39
min. Earth dist.	-8233 Jul	31 j 08:10	7°♐36'06	18.82502 AU
direct	-8233 Oct	14 j 05:15	5°♐37'08	
evening set	-8232 Jan	12 j 16:53	8°♐38'26	
conjunction	-8232 Jan	29 j 06:08	9°♐34'45	-0°48'50
minimum elong	-8232 Jan	29 j 06:08	9°♐34'45	0°49'19
max. Earth dist.	-8232 Jan	29 j 13:45	9°♐35'50	20.80037 AU
morning rise	-8232 Feb	14 j 22:30	10°♐31'32	
retrograde	-8232 May	19 j 11:37	13°♐40'28	
opposition	-8232 Aug	03 j 22:42	11°♐39'55	-0°55'29
min. Earth dist.	-8232 Aug	03 j 17:14	11°♐40'29	18.77543 AU
direct	-8232 Oct	17 j 10:29	9°♐41'29	
evening set	-8231 Jan	16 j 04:24	12°♐43'38	
conjunction	-8231 Feb	01 j 18:35	13°♐40'12	-0°51'17
minimum elong	-8231 Feb	01 j 18:35	13°♐40'12	0°51'46
max. Earth dist.	-8231 Feb	02 j 00:12	13°♐41'01	20.74966 AU
morning rise	-8231 Feb	18 j 11:34	14°♐37'12	
retrograde	-8231 May	24 j 00:08	17°♐46'31	
opposition	-8231 Aug	08 j 05:17	15°♐45'53	-0°58'04
min. Earth dist.	-8231 Aug	08 j 00:43	15°♐46'21	18.72359 AU
direct	-8231 Oct	21 j 18:39	13°♐47'07	
evening set	-8230 Jan	20 j 16:36	16°♐50'12	
conjunction	-8230 Feb	06 j 07:33	17°♐47'02	-0°53'29
minimum elong	-8230 Feb	06 j 07:33	17°♐47'02	0°54'00
max. Earth dist.	-8230 Feb	06 j 10:55	17°♐47'31	20.69669 AU
morning rise	-8230 Feb	23 j 01:06	18°♐44'15	
retrograde	-8230 May	28 j 10:03	21°♐53'59	
opposition	-8230 Aug	12 j 12:25	19°♐53'17	-1°00'22
min. Earth dist.	-8230 Aug	12 j 10:38	19°♐53'28	18.66964 AU
direct	-8230 Oct	26 j 00:31	17°♐54'12	
evening set	-8229 Jan	25 j 05:45	20°♐58'17	
conjunction	-8229 Feb	10 j 21:32	21°♐55'23	-0°55'25
minimum elong	-8229 Feb	10 j 21:32	21°♐55'23	0°55'56
max. Earth dist.	-8229 Feb	10 j 22:37	21°♐55'32	20.64187 AU
morning rise	-8229 Feb	27 j 15:38	22°♐52'50	
retrograde	-8229 Jun	01 j 23:38	26°♐03'00	
opposition	-8229 Aug	16 j 19:45	24°♐02'15	-1°02'23
min. Earth dist.	-8229 Aug	16 j 19:09	24°♐02'19	18.61380 AU
direct	-8229 Oct	30 j 10:17	22°♐02'51	
evening set	-8228 Jan	29 j 19:55	25°♐08'01	
conjunction	-8228 Feb	15 j 12:25	26°♐05'24	-0°57'04
minimum elong	-8228 Feb	15 j 12:25	26°♐05'24	0°57'37
max. Earth dist.	-8228 Feb	15 j 11:08	26°♐05'13	20.58494 AU
morning rise	-8228 Mar	03 j 06:54	27°♐03'05	
	-8228 May	13 j 04:33	0°♑	
retrograde	-8228 Jun	05 j 10:32	0°♑13'44	
	-8228 Jun	28 j 19:29	30°℞♐	
opposition	-8228 Aug	20 j 03:52	28°♐12'57	-1°04'05
min. Earth dist.	-8228 Aug	20 j 06:13	28°♐12'42	18.55585 AU
direct	-8228 Nov	02 j 17:33	26°♐13'14	
evening set	-8227 Feb	02 j 10:51	29°♐19'32	
	-8227 Feb	14 j 05:29	0°♑	
conjunction	-8227 Feb	19 j 04:00	0°♑17'11	-0°58'26
minimum elong	-8227 Feb	19 j 03:59	0°♑17'11	0°58'59
max. Earth dist.	-8227 Feb	19 j 00:03	0°♑16'36	20.52598 AU
morning rise	-8227 Mar	07 j 22:53	1°♑15'06	
retrograde	-8227 Jun	10 j 01:06	4°♑26'15	
opposition	-8227 Aug	24 j 12:24	2°♑25'27	-1°05'26
min. Earth dist.	-8227 Aug	24 j 16:10	2°♑25'03	18.49577 AU
direct	-8227 Nov	07 j 04:39	0°♑25'23	
evening set	-8226 Feb	07 j 02:50	3°♑32'52	

Attention, astronomical year style is used: The year -8226 in astronomical counting style is the year 8227 BCE in historical counting style.

conjunction	-8226 Feb 23 j 20:35	4°♅30'48	-0°59'30
minimum elong	-8226 Feb 23 j 20:35	4°♅30'48	1°00'03
max. Earth dist.	-8226 Feb 23 j 14:16	4°♅29'53	20.46462 AU
morning rise	-8226 Mar 12 j 15:41	5°♅28'57	
retrograde	-8226 Jun 14 j 13:26	8°♅40'38	
opposition	-8226 Aug 28 j 21:39	6°♅39'46	-1°06'27
min. Earth dist.	-8226 Aug 29 j 04:28	6°♅39'03	18.43324 AU
direct	-8226 Nov 11 j 14:00	4°♅39'21	
evening set	-8225 Feb 11 j 19:45	7°♅48'03	
conjunction	-8225 Feb 28 j 14:04	8°♅46'16	-1°00'14
minimum elong	-8225 Feb 28 j 14:03	8°♅46'16	1°00'47
max. Earth dist.	-8225 Feb 28 j 04:30	8°♅44'52	20.40089 AU
morning rise	-8225 Mar 17 j 09:30	9°♅44'39	
retrograde	-8225 Jun 19 j 04:49	12°♅56'51	
opposition	-8225 Sep 02 j 07:32	10°♅55'55	-1°07'07
min. Earth dist.	-8225 Sep 02 j 15:59	10°♅55'02	18.36824 AU
direct	-8225 Nov 16 j 02:22	8°♅55'06	
evening set	-8224 Feb 16 j 13:39	12°♅05'03	
conjunction	-8224 Mar 04 j 08:29	13°♅03'33	-1°00'38
minimum elong	-8224 Mar 04 j 08:29	13°♅03'33	1°01'10
max. Earth dist.	-8224 Mar 03 j 20:36	13°♅01'48	20.33454 AU
morning rise	-8224 Mar 21 j 03:54	14°♅02'10	
retrograde	-8224 Jun 22 j 18:46	17°♅14'52	
opposition	-8224 Sep 05 j 18:07	15°♅13'51	-1°07'23
min. Earth dist.	-8224 Sep 06 j 05:28	15°♅12'38	18.30078 AU
direct	-8224 Nov 19 j 14:00	13°♅12'36	
evening set	-8223 Feb 20 j 08:23	16°♅23'48	
conjunction	-8223 Mar 09 j 03:32	17°♅22'35	-1°00'41
minimum elong	-8223 Mar 09 j 03:32	17°♅22'35	1°01'14
max. Earth dist.	-8223 Mar 08 j 12:17	17°♅20'20	20.26619 AU
morning rise	-8223 Mar 25 j 23:10	18°♅21'26	
retrograde	-8223 Jun 27 j 10:51	21°♅34'39	
opposition	-8223 Sep 10 j 05:18	19°♅33'31	-1°07'17
min. Earth dist.	-8223 Sep 10 j 18:13	19°♅32'08	18.23162 AU
direct	-8223 Nov 24 j 03:42	17°♅31'48	
evening set	-8222 Feb 25 j 03:45	20°♅44'17	
conjunction	-8222 Mar 13 j 23:22	21°♅43'21	-1°00'24
minimum elong	-8222 Mar 13 j 23:22	21°♅43'21	1°00'55
max. Earth dist.	-8222 Mar 13 j 06:19	21°♅40'50	20.19628 AU
morning rise	-8222 Mar 30 j 18:51	22°♅42'26	
retrograde	-8222 Jul 02 j 02:11	25°♅56'09	
opposition	-8222 Sep 14 j 17:14	23°♅54'54	-1°06'48
min. Earth dist.	-8222 Sep 15 j 08:41	23°♅53'14	18.16122 AU
direct	-8222 Nov 28 j 17:03	21°♅52'43	
evening set	-8221 Mar 02 j 00:11	25°♅06'30	
conjunction	-8221 Mar 18 j 19:57	26°♅05'49	-0°59'46
minimum elong	-8221 Mar 18 j 19:57	26°♅05'49	1°00'17
max. Earth dist.	-8221 Mar 17 j 23:37	26°♅02'49	20.12566 AU
morning rise	-8221 Apr 04 j 15:31	27°♅05'08	
	-8221 Jun 09 j 16:52	0°♒	
retrograde	-8221 Jul 06 j 19:17	0°♒19'23	
	-8221 Aug 03 j 02:14	30°℞♅	
opposition	-8221 Sep 19 j 05:38	28°♅17'59	-1°05'55
min. Earth dist.	-8221 Sep 19 j 22:40	28°♅16'09	18.09055 AU
direct	-8221 Dec 03 j 08:20	26°♅15'19	
evening set	-8220 Mar 05 j 21:20	29°♅30'26	
	-8220 Mar 14 j 07:11	0°♒	
conjunction	-8220 Mar 22 j 17:24	0°♒30'02	-0°58'46
minimum elong	-8220 Mar 22 j 17:24	0°♒30'02	0°59'17
max. Earth dist.	-8220 Mar 21 j 19:50	0°♒26'49	20.05499 AU
morning rise	-8220 Apr 08 j 12:35	1°♒29'34	

retrograde	-8220 Jul 10 j 11:59	4°♒44'19	
opposition	-8220 Sep 22 j 19:01	2°♒42'48	-1°04'39
min. Earth dist.	-8220 Sep 23 j 14:04	2°♒40'45	18.02021 AU
direct	-8220 Dec 06 j 23:17	0°♒39'41	
evening set	-8219 Mar 10 j 19:10	3°♒56'07	
conjunction	-8219 Mar 27 j 15:09	4°♒55'59	-0°57'26
minimum elong	-8219 Mar 27 j 15:09	4°♒55'59	0°57'54
max. Earth dist.	-8219 Mar 26 j 14:37	4°♒52'19	19.98521 AU
morning rise	-8219 Apr 13 j 10:13	5°♒55'44	
retrograde	-8219 Jul 15 j 06:14	9°♒11'03	
opposition	-8219 Sep 27 j 09:03	7°♒09'24	-1°02'59
min. Earth dist.	-8219 Sep 28 j 05:26	7°♒07'12	17.95122 AU
direct	-8219 Dec 11 j 15:54	5°♒05'50	
evening set	-8218 Mar 15 j 17:45	8°♒23'36	
conjunction	-8218 Apr 01 j 13:53	9°♒23'44	-0°55'44
minimum elong	-8218 Apr 01 j 13:53	9°♒23'44	0°56'12
max. Earth dist.	-8218 Mar 31 j 12:44	9°♒19'58	19.91698 AU
morning rise	-8218 Apr 18 j 08:26	10°♒23'42	
retrograde	-8218 Jul 20 j 00:32	13°♒39'33	
opposition	-8218 Oct 01 j 23:50	11°♒37'49	-1°00'56
min. Earth dist.	-8218 Oct 02 j 21:45	11°♒35'27	17.88404 AU
direct	-8218 Dec 16 j 08:29	9°♒33'52	
evening set	-8217 Mar 20 j 17:18	12°♒52'58	
max. Earth dist.	-8217 Apr 05 j 09:13	13°♒49'08	19.85102 AU
conjunction	-8217 Apr 06 j 13:10	13°♒53'20	-0°53'42
minimum elong	-8217 Apr 06 j 13:10	13°♒53'20	0°54'08
morning rise	-8217 Apr 23 j 07:26	14°♒53'30	
	-8217 Apr 25 j 03:43	15°♒	
retrograde	-8217 Jul 24 j 20:05	18°♒09'55	
opposition	-8217 Oct 06 j 15:33	16°♒08'08	-0°58'30
min. Earth dist.	-8217 Oct 07 j 14:46	16°♒05'37	17.81946 AU
	-8217 Nov 03 j 08:33	15°℞♒	
direct	-8217 Dec 21 j 02:12	14°♒03'48	
	-8216 Feb 06 j 01:10	15°♒	
evening set	-8216 Mar 24 j 17:23	17°♒24'15	
max. Earth dist.	-8216 Apr 09 j 09:03	18°♒20'36	19.78775 AU
conjunction	-8216 Apr 10 j 13:12	18°♒24'52	-0°51'19
minimum elong	-8216 Apr 10 j 13:13	18°♒24'52	0°51'44
morning rise	-8216 Apr 27 j 06:46	19°♒25'13	
retrograde	-8216 Jul 28 j 16:15	22°♒42'11	
opposition	-8216 Oct 10 j 08:08	20°♒40'23	-0°55'41
min. Earth dist.	-8216 Oct 11 j 08:20	20°♒37'45	17.75764 AU
direct	-8216 Dec 24 j 20:50	18°♒35'45	
evening set	-8215 Mar 29 j 18:23	21°♒57'31	
max. Earth dist.	-8215 Apr 14 j 07:10	22°♒53'41	19.72754 AU
conjunction	-8215 Apr 15 j 13:44	22°♒58'20	-0°48'35
minimum elong	-8215 Apr 15 j 13:44	22°♒58'20	0°48'59
morning rise	-8215 May 02 j 06:49	23°♒58'52	
retrograde	-8215 Aug 02 j 12:35	27°♒16'24	
opposition	-8215 Oct 15 j 01:34	25°♒14'36	-0°52'29
min. Earth dist.	-8215 Oct 16 j 03:10	25°♒11'49	17.69909 AU
direct	-8215 Dec 29 j 15:25	23°♒09'41	
evening set	-8214 Apr 03 j 19:52	26°♒32'44	
max. Earth dist.	-8214 Apr 19 j 08:22	27°♒29'06	19.67048 AU
conjunction	-8214 Apr 20 j 15:00	27°♒33'47	-0°45'32
minimum elong	-8214 Apr 20 j 15:00	27°♒33'47	0°45'52
morning rise	-8214 May 07 j 07:17	28°♒34'28	
	-8214 Jun 01 j 18:48	0°♓	
retrograde	-8214 Aug 07 j 10:31	1°♓52'33	
	-8214 Oct 16 j 07:02	30°℞♒	
opposition	-8214 Oct 19 j 19:55	29°♒50'46	-0°48'55

Attention, astronomical year style is used: The year -8214 in astronomical counting style is the year 8215 BCE in historical counting style.

min. Earth dist.	-8214 Oct 20 j 22:13	29°♒47'54	17.64345 AU
direct	-8213 Jan 03 j 12:46	27°♒45'37	
	-8213 Mar 19 j 11:49	0°♓	
evening set	-8213 Apr 08 j 22:20	1°♓09'54	
max. Earth dist.	-8213 Apr 24 j 08:02	2°♓06'06	19.61630 AU
conjunction	-8213 Apr 25 j 16:49	2°♓11'08	-0°42'10
minimum elong	-8213 Apr 25 j 16:49	2°♓11'08	0°42'29
morning rise	-8213 May 12 j 08:22	3°♓11'57	
retrograde	-8213 Aug 12 j 07:02	6°♓30'33	
opposition	-8213 Oct 24 j 15:13	4°♓28'47	-0°45'00
min. Earth dist.	-8213 Oct 25 j 19:08	4°♓25'45	17.59083 AU
direct	-8212 Jan 08 j 09:20	2°♓23'23	
evening set	-8212 Apr 13 j 01:15	5°♓48'52	
max. Earth dist.	-8212 Apr 28 j 10:20	6°♓45'11	19.56508 AU
conjunction	-8212 Apr 29 j 19:14	6°♓50'15	-0°38'30
minimum elong	-8212 Apr 29 j 19:14	6°♓50'15	0°38'45
morning rise	-8212 May 16 j 09:51	7°♓51'11	
retrograde	-8212 Aug 16 j 05:57	11°♓10'17	
opposition	-8212 Oct 28 j 11:28	9°♓08'31	-0°40'46
min. Earth dist.	-8212 Oct 29 j 15:35	9°♓05'27	17.54101 AU
direct	-8211 Jan 12 j 09:30	7°♓02'54	
evening set	-8211 Apr 18 j 04:35	10°♓29'27	
max. Earth dist.	-8211 May 03 j 11:24	11°♓25'39	19.51669 AU
conjunction	-8211 May 04 j 21:47	11°♓30'58	-0°34'33
minimum elong	-8211 May 04 j 21:48	11°♓30'58	0°34'47
morning rise	-8211 May 21 j 11:29	12°♓31'59	
retrograde	-8211 Aug 21 j 02:51	15°♓51'33	
opposition	-8211 Nov 02 j 08:36	13°♓49'46	-0°36'15
min. Earth dist.	-8211 Nov 03 j 14:15	13°♓46'32	17.49424 AU
direct	-8210 Jan 17 j 08:21	11°♓43'54	
evening set	-8210 Apr 23 j 08:23	15°♓11'28	
max. Earth dist.	-8210 May 08 j 14:17	16°♓07'43	19.47152 AU
conjunction	-8210 May 10 j 00:52	16°♓13'05	-0°30'21
minimum elong	-8210 May 10 j 00:52	16°♓13'05	0°30'33
morning rise	-8210 May 26 j 13:35	17°♓14'11	
retrograde	-8210 Aug 26 j 02:26	20°♓34'08	
opposition	-8210 Nov 07 j 06:17	18°♓32'19	-0°31'27
min. Earth dist.	-8210 Nov 08 j 11:40	18°♓29'06	17.45066 AU
direct	-8209 Jan 22 j 10:55	16°♓26'14	
evening set	-8209 Apr 28 j 12:35	19°♓54'41	
max. Earth dist.	-8209 May 13 j 16:57	20°♓50'54	19.42971 AU
conjunction	-8209 May 15 j 04:10	20°♓56'23	-0°25'56
minimum elong	-8209 May 15 j 04:10	20°♓56'23	0°26'05
morning rise	-8209 May 31 j 15:44	21°♓57'32	
retrograde	-8209 Aug 31 j 00:03	25°♓17'51	
opposition	-8209 Nov 12 j 04:59	23°♓15'58	-0°26'25
min. Earth dist.	-8209 Nov 13 j 11:38	23°♓12'38	17.41086 AU
direct	-8208 Jan 27 j 11:16	21°♓09'40	
evening set	-8208 May 02 j 16:46	24°♓38'55	
max. Earth dist.	-8208 May 17 j 20:08	25°♓35'10	19.39204 AU
conjunction	-8208 May 19 j 07:21	25°♓40'39	-0°21'20
minimum elong	-8208 May 19 j 07:21	25°♓40'39	0°21'27
morning rise	-8208 Jun 04 j 17:52	26°♓41'50	
	-8208 Aug 25 j 17:36	0°♈	
retrograde	-8208 Sep 04 j 00:26	0°♈02'28	
	-8208 Sep 13 j 09:26	30°♓℞	
opposition	-8208 Nov 16 j 04:14	28°♓00'32	-0°21'12
min. Earth dist.	-8208 Nov 17 j 09:54	27°♓57'18	17.37536 AU
direct	-8207 Jan 31 j 14:53	25°♓54'02	
evening set	-8207 May 07 j 21:03	29°♓23'56	
	-8207 May 17 j 14:18	0°♈	
max. Earth dist.	-8207 May 23 j 00:04	0°♈20'18	19.35893 AU
conjunction	-8207 May 24 j 10:40	0°♈25'43	-0°16'35
minimum elong	-8207 May 24 j 10:40	0°♈25'43	0°16'38
morning rise	-8207 Jun 09 j 19:55	1°♈26'54	
retrograde	-8207 Sep 08 j 23:06	4°♈47'47	
opposition	-8207 Nov 21 j 04:07	2°♈45'48	-0°15'50
min. Earth dist.	-8207 Nov 22 j 10:36	2°♈42'28	17.34487 AU
direct	-8206 Feb 05 j 16:10	0°♈39'07	
evening set	-8206 May 13 j 01:21	4°♈09'36	
max. Earth dist.	-8206 May 28 j 03:19	5°♈05'57	19.33118 AU
conjunction	-8206 May 29 j 13:47	5°♈11'22	-0°11'43
minimum elong	-8206 May 29 j 13:47	5°♈11'22	0°11'44
behind sun begin	-8206 May 29 j 09:05	5°♈10'39	
behind sun end	-8206 May 29 j 18:29	5°♈12'05	
morning rise	-8206 Jun 14 j 21:58	6°♈12'33	
retrograde	-8206 Sep 13 j 23:52	9°♈33'38	
opposition	-8206 Nov 26 j 04:33	7°♈31'36	-0°10'20
min. Earth dist.	-8206 Nov 27 j 09:32	7°♈28'27	17.31988 AU
direct	-8205 Feb 10 j 20:08	5°♈24'48	
evening set	-8205 May 18 j 05:30	8°♈55'43	
max. Earth dist.	-8205 Jun 02 j 08:06	9°♈52'19	19.30912 AU
conjunction	-8205 Jun 03 j 16:50	9°♈57'28	-0°06'46
minimum elong	-8205 Jun 03 j 16:51	9°♈57'28	0°06'44
behind sun begin	-8205 Jun 03 j 10:35	9°♈56'31	
behind sun end	-8205 Jun 03 j 23:06	9°♈58'26	
morning rise	-8205 Jun 19 j 23:36	10°♈58'35	
retrograde	-8205 Sep 18 j 23:08	14°♈19'53	
opposition	-8205 Dec 01 j 05:44	12°♈17'49	-0°04'46
min. Earth dist.	-8205 Dec 02 j 10:49	12°♈14'39	17.30095 AU
direct	-8204 Feb 15 j 22:20	10°♈10'56	
evening set	-8204 May 22 j 09:36	13°♈42'12	
max. Earth dist.	-8204 Jun 06 j 11:11	14°♈38'47	19.29350 AU
conjunction	-8204 Jun 07 j 19:32	14°♈43'53	-0°01'45
minimum elong	-8204 Jun 07 j 19:33	14°♈43'53	0°01'40
behind sun begin	-8204 Jun 07 j 12:51	14°♈42'52	
behind sun end	-8204 Jun 08 j 02:15	14°♈44'55	
morning rise	-8204 Jun 24 j 01:11	15°♈44'57	
retrograde	-8204 Sep 23 j 00:05	19°♈06'24	
asc. node	-8204 Oct 11 j 19:51	18°♈56'29	
opposition	-8204 Dec 05 j 07:16	17°♈04'19	0°00'51
min. Earth dist.	-8204 Dec 06 j 10:20	17°♈01'23	17.28866 AU
direct	-8203 Feb 20 j 02:37	14°♈57'26	
evening set	-8203 May 27 j 13:12	18°♈28'56	
conjunction	-8203 Jun 12 j 22:02	19°♈30'33	0°03'24
minimum elong	-8203 Jun 12 j 22:04	19°♈30'33	0°03'31
behind sun begin	-8203 Jun 12 j 15:25	19°♈29'31	
behind sun end	-8203 Jun 13 j 04:42	19°♈31'34	
max. Earth dist.	-8203 Jun 11 j 16:14	19°♈25'50	19.28456 AU
morning rise	-8203 Jun 29 j 02:15	20°♈31'30	
retrograde	-8203 Sep 27 j 23:45	23°♈53'04	
opposition	-8203 Dec 10 j 09:22	21°♈51'03	0°06'28
min. Earth dist.	-8203 Dec 11 j 11:54	21°♈48'11	17.28302 AU
direct	-8202 Feb 25 j 05:45	19°♈44'15	
evening set	-8202 Jun 01 j 16:51	23°♈15'53	
max. Earth dist.	-8202 Jun 16 j 18:54	24°♈12'44	19.28236 AU
conjunction	-8202 Jun 18 j 00:13	24°♈17'22	0°08'24
minimum elong	-8202 Jun 18 j 00:13	24°♈17'22	0°08'34
behind sun begin	-8202 Jun 17 j 18:24	24°♈16'28	
behind sun end	-8202 Jun 18 j 06:03	24°♈18'16	
morning rise	-8202 Jul 04 j 03:17	25°♈18'13	
retrograde	-8202 Oct 03 j 00:26	28°♈39'53	

Attention, astronomical year style is used: The year -8202 in astronomical counting style is the year 8203 BCE in historical counting style.

opposition	-8202 Dec 15 j 11:39	26°♈37'56	0°12'03
min. Earth dist.	-8202 Dec 16 j 12:13	26°♈35'17	17.28410 AU
direct	-8201 Mar 02 j 10:19	24°♈31'16	
evening set	-8201 Jun 06 j 20:02	28°♈02'55	
max. Earth dist.	-8201 Jun 21 j 23:51	29°♈00'06	19.28667 AU
conjunction	-8201 Jun 23 j 02:14	29°♈04'17	0°13'21
minimum elong	-8201 Jun 23 j 02:13	29°♈04'17	0°13'33
behind sun begin	-8201 Jun 22 j 22:31	29°♈03'42	
behind sun end	-8201 Jun 23 j 05:55	29°♈04'51	
	-8201 Jul 07 j 19:36	0°♉	
morning rise	-8201 Jul 09 j 03:49	0°♉05'00	
retrograde	-8201 Oct 08 j 00:35	3°♉26'43	
opposition	-8201 Dec 20 j 14:37	1°♉24'53	0°17'33
min. Earth dist.	-8201 Dec 21 j 14:06	1°♉22'21	17.29141 AU
	-8200 Jan 25 j 14:15	30°℞♈	
direct	-8200 Mar 06 j 14:34	29°♈18'25	
	-8200 Apr 15 j 17:24	0°♉	
evening set	-8200 Jun 10 j 22:51	2°♉49'57	
max. Earth dist.	-8200 Jun 26 j 01:57	3°♉47'05	19.29704 AU
conjunction	-8200 Jun 27 j 03:30	3°♉51'08	0°18'12
minimum elong	-8200 Jun 27 j 03:30	3°♉51'08	0°18'27
morning rise	-8200 Jul 13 j 03:58	4°♉51'43	
retrograde	-8200 Oct 12 j 00:57	8°♉13'28	
opposition	-8200 Dec 24 j 17:45	6°♉11'44	0°22'55
min. Earth dist.	-8200 Dec 25 j 15:25	6°♉09'24	17.30468 AU
direct	-8199 Mar 11 j 19:28	4°♉05'29	
evening set	-8199 Jun 16 j 01:10	7°♉36'48	
max. Earth dist.	-8199 Jul 01 j 06:00	8°♉34'13	19.31300 AU
conjunction	-8199 Jul 02 j 04:36	8°♉37'48	0°22'57
minimum elong	-8199 Jul 02 j 04:36	8°♉37'48	0°23'15
morning rise	-8199 Jul 18 j 03:42	9°♉38'12	
retrograde	-8199 Oct 17 j 00:47	12°♉59'54	
opposition	-8199 Dec 29 j 21:01	10°♉58'18	0°28'08
min. Earth dist.	-8199 Dec 30 j 17:09	10°♉56'08	17.32311 AU
direct	-8198 Mar 17 j 00:47	8°♉52'17	
evening set	-8198 Jun 21 j 03:09	12°♉23'15	
max. Earth dist.	-8198 Jul 06 j 07:28	13°♉20'37	19.33393 AU
conjunction	-8198 Jul 07 j 05:06	13°♉24'03	0°27'31
minimum elong	-8198 Jul 07 j 05:06	13°♉24'03	0°27'50
morning rise	-8198 Jul 23 j 03:04	14°♉24'16	
	-8198 Aug 01 j 22:03	15°♉	
retrograde	-8198 Oct 22 j 00:22	17°♉45'52	
opposition	-8197 Jan 04 j 00:34	15°♉44'22	0°33'08
min. Earth dist.	-8197 Jan 04 j 19:09	15°♉42'23	17.34646 AU
	-8197 Jan 21 j 16:43	15°℞♉	
direct	-8197 Mar 22 j 05:17	13°♉38'36	
	-8197 May 18 j 00:52	15°♉	
evening set	-8197 Jun 26 j 04:18	17°♉09'05	
max. Earth dist.	-8197 Jul 11 j 10:11	18°♉06'40	19.35951 AU
conjunction	-8197 Jul 12 j 05:00	18°♉09'39	0°31'54
minimum elong	-8197 Jul 12 j 04:59	18°♉09'39	0°32'16
morning rise	-8197 Jul 28 j 01:42	19°♉09'39	
retrograde	-8197 Oct 27 j 00:10	22°♉31'07	
opposition	-8196 Jan 09 j 04:11	20°♉29'43	0°37'54
min. Earth dist.	-8196 Jan 09 j 20:30	20°♉27'58	17.37410 AU
direct	-8196 Mar 26 j 10:50	18°♉24'12	
evening set	-8196 Jun 30 j 04:54	21°♉54'04	
max. Earth dist.	-8196 Jul 15 j 10:57	22°♉51'39	19.38931 AU
conjunction	-8196 Jul 16 j 04:13	22°♉54'23	0°36'03
minimum elong	-8196 Jul 16 j 04:13	22°♉54'23	0°36'26
morning rise	-8196 Jul 31 j 23:51	23°♉54'11	
retrograde	-8196 Oct 30 j 22:51	27°♉15'26	
opposition	-8195 Jan 13 j 07:40	25°♉14'05	0°42'22
min. Earth dist.	-8195 Jan 13 j 22:33	25°♉12'31	17.40608 AU
direct	-8195 Mar 31 j 13:50	23°♉08'50	
evening set	-8195 Jul 05 j 04:34	26°♉37'58	
conjunction	-8195 Jul 21 j 02:42	27°♉38'02	0°39'55
minimum elong	-8195 Jul 21 j 02:42	27°♉38'02	0°40'21
max. Earth dist.	-8195 Jul 20 j 12:03	27°♉35'43	19.42335 AU
morning rise	-8195 Aug 05 j 21:17	28°♉37'36	
	-8195 Aug 29 j 10:38	0°♊	
retrograde	-8195 Nov 04 j 22:47	1°♊58'34	
	-8194 Jan 17 j 09:19	30°℞♉	
opposition	-8194 Jan 18 j 10:53	29°♉57'18	0°46'33
min. Earth dist.	-8194 Jan 18 j 22:58	29°♉56'01	17.44198 AU
direct	-8194 Apr 05 j 18:46	27°♉52'18	
	-8194 Jun 17 j 02:15	0°♊	
evening set	-8194 Jul 10 j 03:26	1°♊20'35	
max. Earth dist.	-8194 Jul 25 j 11:53	2°♊18'25	19.46128 AU
conjunction	-8194 Jul 26 j 00:19	2°♊20'23	0°43'31
minimum elong	-8194 Jul 26 j 00:19	2°♊20'23	0°43'59
morning rise	-8194 Aug 10 j 17:54	3°♊19'42	
retrograde	-8194 Nov 09 j 20:14	6°♊40'21	
opposition	-8193 Jan 23 j 13:57	4°♊39'07	0°50'23
min. Earth dist.	-8193 Jan 24 j 00:38	4°♊37'59	17.48201 AU
direct	-8193 Apr 10 j 20:17	2°♊34'23	
evening set	-8193 Jul 15 j 01:23	6°♊01'44	
conjunction	-8193 Jul 30 j 21:07	7°♊01'14	0°46'48
minimum elong	-8193 Jul 30 j 21:06	7°♊01'14	0°47'16
max. Earth dist.	-8193 Jul 30 j 11:14	6°♊59'41	19.50347 AU
morning rise	-8193 Aug 15 j 13:50	8°♊00'19	
retrograde	-8193 Nov 14 j 20:07	11°♊20'35	
opposition	-8192 Jan 28 j 16:37	9°♊19'23	0°53'51
min. Earth dist.	-8192 Jan 28 j 23:53	9°♊18'37	17.52623 AU
direct	-8192 Apr 15 j 00:29	7°♊14'56	
evening set	-8192 Jul 18 j 22:13	10°♊41'14	
conjunction	-8192 Aug 03 j 16:54	11°♊40'27	0°49'45
minimum elong	-8192 Aug 03 j 16:54	11°♊40'27	0°50'16
max. Earth dist.	-8192 Aug 03 j 10:00	11°♊39'22	19.54981 AU
morning rise	-8192 Aug 19 j 08:46	12°♊39'16	
retrograde	-8192 Nov 18 j 16:02	15°♊59'09	
opposition	-8191 Feb 01 j 18:57	13°♊57'58	0°56'57
min. Earth dist.	-8191 Feb 02 j 00:39	13°♊57'22	17.57481 AU
direct	-8191 Apr 20 j 01:07	11°♊53'50	
evening set	-8191 Jul 23 j 18:16	15°♊19'02	
conjunction	-8191 Aug 08 j 11:52	16°♊17'57	0°52'22
minimum elong	-8191 Aug 08 j 11:52	16°♊17'57	0°52'53
max. Earth dist.	-8191 Aug 08 j 07:20	16°♊17'14	19.60061 AU
morning rise	-8191 Aug 24 j 03:04	17°♊16'30	
retrograde	-8191 Nov 23 j 14:35	20°♊35'56	
opposition	-8190 Feb 06 j 20:30	18°♊34'48	0°59'40
min. Earth dist.	-8190 Feb 06 j 22:28	18°♊34'36	17.62774 AU
direct	-8190 Apr 25 j 04:21	16°♊31'01	
evening set	-8190 Jul 28 j 13:21	19°♊55'04	
conjunction	-8190 Aug 13 j 06:05	20°♊53'41	0°54'39
minimum elong	-8190 Aug 13 j 06:05	20°♊53'41	0°55'10
max. Earth dist.	-8190 Aug 13 j 04:58	20°♊53'30	19.65568 AU
morning rise	-8190 Aug 28 j 20:31	21°♊51'58	
retrograde	-8190 Nov 28 j 09:18	25°♊10'58	
opposition	-8189 Feb 11 j 21:53	23°♊09'55	1°01'59
min. Earth dist.	-8189 Feb 11 j 22:07	23°♊09'53	17.68498 AU
direct	-8189 Apr 30 j 03:55	21°♊06'31	

Attention, astronomical year style is used: The year -8189 in astronomical counting style is the year 8190 BCE in historical counting style.

evening set	-8189 Aug 02 j 07:27	24°♊29'22	
conjunction	-8189 Aug 17 j 23:14	25°♊27'40	0°56'34
minimum elong	-8189 Aug 17 j 23:14	25°♊27'40	0°57'06
max. Earth dist.	-8189 Aug 18 j 00:18	25°♊27'50	19.71501 AU
morning rise	-8189 Sep 02 j 13:14	26°♊25'42	
retrograde	-8189 Dec 03 j 06:32	29°♊44'14	
opposition	-8188 Feb 16 j 22:35	27°♊43'18	1°03'54
min. Earth dist.	-8188 Feb 16 j 19:01	27°♊43'40	17.74617 AU
direct	-8188 May 04 j 05:36	25°♊40'19	
evening set	-8188 Aug 06 j 00:39	29°♊01'57	
conjunction	-8188 Aug 21 j 15:48	29°♊59'57	0°58'07
minimum elong	-8188 Aug 21 j 15:48	29°♊59'57	0°58'39
	-8188 Aug 21 j 16:07	0°♋	
max. Earth dist.	-8188 Aug 21 j 20:28	0°♋00'41	19.77790 AU
morning rise	-8188 Sep 06 j 05:14	0°♋57'43	
retrograde	-8188 Dec 07 j 00:09	4°♋15'46	
opposition	-8187 Feb 20 j 22:41	2°♋14'58	1°05'24
min. Earth dist.	-8187 Feb 20 j 17:31	2°♋15'30	17.81064 AU
direct	-8187 May 09 j 03:49	0°♋12'27	
evening set	-8187 Aug 10 j 17:04	3°♋32'49	
conjunction	-8187 Aug 26 j 07:25	4°♋30'31	0°59'18
minimum elong	-8187 Aug 26 j 07:25	4°♋30'31	0°59'52
max. Earth dist.	-8187 Aug 26 j 13:48	4°♋31'31	19.84377 AU
morning rise	-8187 Sep 10 j 20:39	5°♋28'03	
retrograde	-8187 Dec 11 j 20:09	8°♋45'36	
opposition	-8186 Feb 25 j 22:08	6°♋44'57	1°06'29
min. Earth dist.	-8186 Feb 25 j 13:37	6°♋45'49	17.87764 AU
direct	-8186 May 14 j 02:49	4°♋42'53	
evening set	-8186 Aug 15 j 08:27	8°♋01'58	
conjunction	-8186 Aug 30 j 22:20	8°♋59'23	1°00'07
minimum elong	-8186 Aug 30 j 22:20	8°♋59'23	1°00'40
max. Earth dist.	-8186 Aug 31 j 08:14	9°♋00'55	19.91162 AU
morning rise	-8186 Sep 15 j 11:08	9°♋56'39	
retrograde	-8186 Dec 16 j 13:06	13°♋13'43	
opposition	-8185 Mar 02 j 21:10	11°♋13'12	1°07'10
min. Earth dist.	-8185 Mar 02 j 11:04	11°♋14'14	17.94623 AU
direct	-8185 May 18 j 23:54	9°♋11'37	
evening set	-8185 Aug 19 j 23:14	12°♋29'24	
conjunction	-8185 Sep 04 j 12:29	13°♋26'30	1°00'34
minimum elong	-8185 Sep 04 j 12:29	13°♋26'30	1°01'07
max. Earth dist.	-8185 Sep 04 j 23:41	13°♋28'14	19.98081 AU
morning rise	-8185 Sep 20 j 01:16	14°♋23'32	
retrograde	-8185 Dec 21 j 07:40	17°♋40'05	
opposition	-8184 Mar 06 j 19:22	15°♋39'42	1°07'26
min. Earth dist.	-8184 Mar 06 j 06:24	15°♋41'02	18.01585 AU
direct	-8184 May 22 j 20:23	13°♋38'33	
evening set	-8184 Aug 23 j 12:58	16°♋55'01	
conjunction	-8184 Sep 08 j 02:00	17°♋51'52	1°00'39
minimum elong	-8184 Sep 08 j 02:00	17°♋51'52	1°01'11
max. Earth dist.	-8184 Sep 08 j 16:24	17°♋54'04	20.05046 AU
morning rise	-8184 Sep 23 j 14:35	18°♋48'39	
retrograde	-8184 Dec 24 j 23:58	22°♋04'39	
opposition	-8183 Mar 11 j 16:54	20°♋04'24	1°07'18
min. Earth dist.	-8183 Mar 11 j 02:28	20°♋05'53	18.08545 AU
direct	-8183 May 27 j 16:11	18°♋03'41	
evening set	-8183 Aug 28 j 02:09	21°♋18'50	
conjunction	-8183 Sep 12 j 14:42	22°♋15'23	1°00'22
minimum elong	-8183 Sep 12 j 14:42	22°♋15'23	1°00'52
max. Earth dist.	-8183 Sep 13 j 05:57	22°♋17'43	20.11985 AU
morning rise	-8183 Sep 28 j 03:26	23°♋11'57	
retrograde	-8183 Dec 29 j 16:53	26°♋27'24	
opposition	-8182 Mar 16 j 13:32	24°♋27'15	1°06'45
min. Earth dist.	-8182 Mar 15 j 20:47	24°♋28'57	18.15457 AU
direct	-8182 Jun 01 j 10:34	22°♋26'55	
evening set	-8182 Sep 01 j 14:19	25°♋40'45	
conjunction	-8182 Sep 17 j 02:51	26°♋37'03	0°59'44
minimum elong	-8182 Sep 17 j 02:51	26°♋37'03	1°00'15
max. Earth dist.	-8182 Sep 17 j 21:02	26°♋39'49	20.18845 AU
morning rise	-8182 Oct 02 j 15:32	27°♋33'24	
	-8182 Nov 20 j 17:19	0°♌	
retrograde	-8181 Jan 03 j 08:01	0°♌48'16	
	-8181 Feb 17 j 20:45	30°℞♋	
opposition	-8181 Mar 21 j 09:31	28°♋48'12	1°05'50
min. Earth dist.	-8181 Mar 20 j 15:13	28°♋50'04	18.22260 AU
direct	-8181 Jun 06 j 04:46	26°♋48'15	
	-8181 Sep 05 j 20:44	0°♌	
evening set	-8181 Sep 06 j 01:43	0°♌00'44	
conjunction	-8181 Sep 21 j 14:00	0°♌56'47	0°58'45
minimum elong	-8181 Sep 21 j 14:00	0°♌56'47	0°59'15
max. Earth dist.	-8181 Sep 22 j 08:54	0°♌59'39	20.25592 AU
morning rise	-8181 Oct 07 j 03:06	1°♌52'56	
retrograde	-8180 Jan 07 j 23:39	5°♌07'14	
min. Earth dist.	-8180 Mar 24 j 08:28	3°♌09'14	18.28950 AU
opposition	-8180 Mar 25 j 04:38	3°♌07'12	1°04'33
direct	-8180 Jun 09 j 21:24	1°♌07'35	
evening set	-8180 Sep 09 j 12:13	4°♌18'45	
conjunction	-8180 Sep 25 j 00:41	5°♌14'34	0°57'28
minimum elong	-8180 Sep 25 j 00:41	5°♌14'34	0°57'57
max. Earth dist.	-8180 Sep 25 j 22:23	5°♌17'51	20.32212 AU
morning rise	-8180 Oct 10 j 13:56	6°♌10'31	
retrograde	-8179 Jan 11 j 13:25	9°♌24'13	
opposition	-8179 Mar 29 j 22:35	7°♌24'13	1°02'55
min. Earth dist.	-8179 Mar 29 j 00:50	7°♌26'25	18.35503 AU
direct	-8179 Jun 14 j 13:29	5°♌24'55	
evening set	-8179 Sep 13 j 22:02	8°♌34'48	
conjunction	-8179 Sep 29 j 10:25	9°♌30'23	0°55'52
minimum elong	-8179 Sep 29 j 10:25	9°♌30'23	0°56'19
max. Earth dist.	-8179 Sep 30 j 08:47	9°♌33'45	20.38707 AU
morning rise	-8179 Oct 15 j 00:13	10°♌26'09	
retrograde	-8178 Jan 16 j 03:34	13°♌39'17	
opposition	-8178 Apr 03 j 15:52	11°♌39'17	1°00'57
min. Earth dist.	-8178 Apr 02 j 16:34	11°♌41'38	18.41954 AU
direct	-8178 Jun 19 j 04:14	9°♌40'18	
evening set	-8178 Sep 18 j 06:50	12°♌48'55	
conjunction	-8178 Oct 03 j 19:32	13°♌44'18	0°53'58
minimum elong	-8178 Oct 03 j 19:33	13°♌44'18	0°54'24
max. Earth dist.	-8178 Oct 04 j 20:45	13°♌48'04	20.45101 AU
morning rise	-8178 Oct 19 j 09:37	14°♌39'53	
	-8178 Oct 25 j 04:53	15°♌	
retrograde	-8177 Jan 20 j 16:32	17°♌52'27	
min. Earth dist.	-8177 Apr 07 j 07:03	15°♌55'02	18.48299 AU
opposition	-8177 Apr 08 j 08:15	15°♌52'29	0°58'40
	-8177 Apr 30 j 18:21	15°℞♌	
direct	-8177 Jun 23 j 18:40	13°♌53'49	
	-8177 Aug 14 j 02:52	15°♌	
evening set	-8177 Sep 22 j 15:13	17°♌01'13	
conjunction	-8177 Oct 08 j 04:00	17°♌56'23	0°51'48
minimum elong	-8177 Oct 08 j 04:01	17°♌56'23	0°52'13
max. Earth dist.	-8177 Oct 09 j 05:52	18°♌00'15	20.51400 AU
morning rise	-8177 Oct 23 j 18:48	18°♌51'50	
retrograde	-8176 Jan 25 j 05:19	22°♌03'51	

Attention, astronomical year style is used: The year -8176 in astronomical counting style is the year 8177 BCE in historical counting style.

opposition	-8176 Apr 11 j 23:44	20°♌03'55	0°56'06
min. Earth dist.	-8176 Apr 10 j 21:20	20°♌06'35	18.54563 AU
direct	-8176 Jun 27 j 07:20	18°♌05'34	
evening set	-8176 Sep 25 j 22:48	21°♌11'49	
conjunction	-8176 Oct 11 j 12:07	22°♌06'50	0°49'23
minimum elong	-8176 Oct 11 j 12:07	22°♌06'50	0°49'45
max. Earth dist.	-8176 Oct 12 j 16:29	22°♌11'03	20.57602 AU
morning rise	-8176 Oct 27 j 03:21	23°♌02'07	
retrograde	-8175 Jan 28 j 17:53	26°♌13'38	
min. Earth dist.	-8175 Apr 15 j 10:09	24°♌16'36	18.60694 AU
opposition	-8175 Apr 16 j 14:20	24°♌13'46	0°53'15
direct	-8175 Jul 01 j 20:12	22°♌15'44	
evening set	-8175 Sep 30 j 05:58	25°♌20'55	
conjunction	-8175 Oct 15 j 19:29	26°♌15'45	0°46'43
minimum elong	-8175 Oct 15 j 19:30	26°♌15'45	0°47'04
max. Earth dist.	-8175 Oct 17 j 00:16	26°♌20'00	20.63658 AU
morning rise	-8175 Oct 31 j 11:33	27°♌10'55	
	-8174 Jan 03 j 08:58	0°♍	
retrograde	-8174 Feb 02 j 05:05	0°♍21'57	
	-8174 Mar 04 j 16:08	30°℞♌	
min. Earth dist.	-8174 Apr 19 j 23:26	28°♌25'03	18.66672 AU
opposition	-8174 Apr 21 j 04:17	28°♌22'09	0°50'09
direct	-8174 Jul 06 j 07:07	26°♌24'28	
evening set	-8174 Oct 04 j 12:30	29°♌28'36	
	-8174 Oct 13 j 12:23	0°♍	
conjunction	-8174 Oct 20 j 02:42	0°♍23'18	0°43'49
minimum elong	-8174 Oct 20 j 02:42	0°♍23'18	0°44'08
max. Earth dist.	-8174 Oct 21 j 09:40	0°♍27'52	20.69537 AU
morning rise	-8174 Nov 04 j 19:20	1°♍18'21	
retrograde	-8173 Feb 06 j 17:25	4°♍28'56	
min. Earth dist.	-8173 Apr 24 j 11:04	2°♍32'17	18.72430 AU
opposition	-8173 Apr 25 j 17:26	2°♍29'14	0°46'48
direct	-8173 Jul 10 j 18:37	0°♍31'52	
evening set	-8173 Oct 08 j 18:47	3°♍35'02	
conjunction	-8173 Oct 24 j 09:22	4°♍29'36	0°40'42
minimum elong	-8173 Oct 24 j 09:23	4°♍29'36	0°41'00
max. Earth dist.	-8173 Oct 25 j 16:24	4°♍34'10	20.75164 AU
morning rise	-8173 Nov 09 j 02:59	5°♍24'35	
retrograde	-8172 Feb 11 j 03:18	8°♍34'44	
min. Earth dist.	-8172 Apr 27 j 23:39	6°♍38'10	18.77916 AU
opposition	-8172 Apr 29 j 06:00	6°♍35'07	0°43'13
direct	-8172 Jul 14 j 03:42	4°♍38'03	
evening set	-8172 Oct 12 j 00:41	7°♍40'20	
conjunction	-8172 Oct 27 j 16:03	8°♍34'47	0°37'24
minimum elong	-8172 Oct 27 j 16:03	8°♍34'47	0°37'39
max. Earth dist.	-8172 Oct 29 j 00:40	8°♍39'33	20.80479 AU
morning rise	-8172 Nov 12 j 10:19	9°♍29'40	
retrograde	-8171 Feb 14 j 14:35	12°♍39'24	
min. Earth dist.	-8171 May 02 j 10:11	10°♍43'02	18.83042 AU
opposition	-8171 May 03 j 17:35	10°♍39'53	0°39'26
direct	-8171 Jul 18 j 14:16	8°♍43'06	
evening set	-8171 Oct 16 j 06:28	11°♍44'32	
conjunction	-8171 Oct 31 j 22:19	12°♍38'54	0°33'55
minimum elong	-8171 Oct 31 j 22:19	12°♍38'54	0°34'08
max. Earth dist.	-8171 Nov 02 j 06:27	12°♍43'35	20.85407 AU
morning rise	-8171 Nov 16 j 17:36	13°♍33'43	
retrograde	-8170 Feb 18 j 23:42	16°♍43'05	
min. Earth dist.	-8170 May 06 j 22:03	14°♍46'42	18.87767 AU
opposition	-8170 May 08 j 04:52	14°♍43'37	0°35'29
direct	-8170 Jul 22 j 21:40	12°♍47'04	
evening set	-8170 Oct 20 j 11:44	15°♍47'44	

conjunction	-8170 Nov 05 j 04:28	16°♍42'00	0°30'16
minimum elong	-8170 Nov 05 j 04:29	16°♍42'00	0°30'27
max. Earth dist.	-8170 Nov 06 j 13:43	16°♍46'50	20.89903 AU
morning rise	-8170 Nov 21 j 00:32	17°♍36'46	
retrograde	-8169 Feb 23 j 09:51	20°♍45'47	
min. Earth dist.	-8169 May 11 j 07:47	18°♍49'31	18.92016 AU
opposition	-8169 May 12 j 15:25	18°♍46'21	0°31'21
direct	-8169 Jul 27 j 07:23	16°♍50'00	
evening set	-8169 Oct 24 j 17:07	19°♍49'56	
conjunction	-8169 Nov 09 j 10:29	20°♍44'09	0°26'30
minimum elong	-8169 Nov 09 j 10:30	20°♍44'09	0°26'39
max. Earth dist.	-8169 Nov 10 j 18:47	20°♍48'49	20.93900 AU
morning rise	-8169 Nov 25 j 07:40	21°♍38'52	
retrograde	-8168 Feb 27 j 18:31	24°♍47'32	
min. Earth dist.	-8168 May 14 j 18:48	22°♍51'10	18.95763 AU
opposition	-8168 May 16 j 01:20	22°♍48'06	0°27'06
direct	-8168 Jul 30 j 13:46	20°♍51'53	
evening set	-8168 Oct 27 j 22:06	23°♍51'09	
conjunction	-8168 Nov 12 j 16:29	24°♍45'20	0°22'36
minimum elong	-8168 Nov 12 j 16:29	24°♍45'20	0°22'44
max. Earth dist.	-8168 Nov 14 j 01:24	24°♍50'05	20.97388 AU
morning rise	-8168 Nov 28 j 14:31	25°♍40'01	
retrograde	-8167 Mar 03 j 03:35	28°♍48'21	
min. Earth dist.	-8167 May 19 j 03:28	26°♍52'01	18.98981 AU
opposition	-8167 May 20 j 10:35	26°♍48'54	0°22'43
direct	-8167 Aug 03 j 22:14	24°♍52'47	
evening set	-8167 Nov 01 j 02:55	27°♍51'26	
conjunction	-8167 Nov 16 j 22:00	28°♍45'34	0°18'37
minimum elong	-8167 Nov 16 j 22:00	28°♍45'34	0°18'41
max. Earth dist.	-8167 Nov 18 j 05:51	28°♍50'09	21.00351 AU
morning rise	-8167 Dec 02 j 21:11	29°♍40'16	
	-8167 Dec 08 j 19:32	0°♎	
retrograde	-8166 Mar 07 j 11:31	2°♎48'18	
opposition	-8166 May 24 j 19:24	0°♎48'46	0°18'16
min. Earth dist.	-8166 May 23 j 13:32	0°♎51'46	19.01703 AU
	-8166 Jun 14 j 17:11	30°℞♍	
direct	-8166 Aug 08 j 03:50	28°♍52'43	
	-8166 Sep 29 j 03:59	0°♎	
evening set	-8166 Nov 05 j 07:30	1°♎50'49	
conjunction	-8166 Nov 21 j 03:40	2°♎44'56	0°14'34
minimum elong	-8166 Nov 21 j 03:40	2°♎44'56	0°14'37
behind sun begin	-8166 Nov 21 j 00:47	2°♎44'32	
behind sun end	-8166 Nov 21 j 06:32	2°♎45'20	
max. Earth dist.	-8166 Nov 22 j 12:09	2°♎49'36	21.02845 AU
morning rise	-8166 Dec 07 j 03:44	3°♎39'37	
retrograde	-8165 Mar 11 j 19:55	6°♎47'23	
min. Earth dist.	-8165 May 27 j 21:02	4°♎50'50	19.03968 AU
opposition	-8165 May 29 j 03:25	4°♎47'47	0°13'44
direct	-8165 Aug 12 j 11:08	2°♎51'45	
evening set	-8165 Nov 09 j 12:09	5°♎49'23	
conjunction	-8165 Nov 25 j 09:06	6°♎43'31	0°10'28
minimum elong	-8165 Nov 25 j 09:06	6°♎43'31	0°10'27
behind sun begin	-8165 Nov 25 j 03:54	6°♎42'47	
behind sun end	-8165 Nov 25 j 14:17	6°♎44'14	
max. Earth dist.	-8165 Nov 26 j 16:30	6°♎48'00	21.04896 AU
morning rise	-8165 Dec 11 j 10:23	7°♎38'14	
retrograde	-8164 Mar 15 j 03:13	10°♎45'45	
min. Earth dist.	-8164 May 31 j 06:06	8°♎48'59	19.05819 AU
opposition	-8164 Jun 01 j 11:04	8°♎46'05	0°09'10
direct	-8164 Aug 15 j 15:41	6°♎50'03	
evening set	-8164 Nov 12 j 16:38	9°♎47'19	

Attention, astronomical year style is used: The year -8164 in astronomical counting style is the year 8165 BCE in historical counting style.

conjunction	-8164 Nov 28 j 14:41	10°♎41'28	0°06'20
minimum elong	-8164 Nov 28 j 14:41	10°♎41'28	0°06'17
behind sun begin	-8164 Nov 28 j 08:27	10°♎40'36	
behind sun end	-8164 Nov 28 j 20:56	10°♎42'20	
max. Earth dist.	-8164 Nov 29 j 22:33	10°♎46'01	21.06551 AU
morning rise	-8164 Dec 14 j 16:51	11°♎36'12	
retrograde	-8163 Mar 19 j 11:25	14°♎43'31	
opposition	-8163 Jun 05 j 17:58	12°♎43'49	0°04'34
min. Earth dist.	-8163 Jun 04 j 12:33	12°♎46'46	19.07281 AU
direct	-8163 Aug 19 j 22:03	10°♎47'48	
evening set	-8163 Nov 16 j 21:18	13°♎44'47	
conjunction	-8163 Dec 02 j 20:09	14°♎38'58	0°02'10
minimum elong	-8163 Dec 02 j 20:10	14°♎38'58	0°02'05
behind sun begin	-8163 Dec 02 j 13:33	14°♎38'03	
behind sun end	-8163 Dec 03 j 02:47	14°♎39'53	
max. Earth dist.	-8163 Dec 04 j 02:49	14°♎43'20	21.07829 AU
morning rise	-8163 Dec 18 j 23:31	15°♎33'45	
retrograde	-8162 Mar 23 j 18:16	18°♎40'56	
desc. node	-8162 Jun 05 j 23:44	16°♎50'57	
min. Earth dist.	-8162 Jun 08 j 20:53	16°♎44'00	19.08383 AU
opposition	-8162 Jun 10 j 00:45	16°♎41'11	-0°00'03
direct	-8162 Aug 24 j 01:37	14°♎45'11	
evening set	-8162 Nov 21 j 01:47	17°♎41'58	
conjunction	-8162 Dec 07 j 01:53	18°♎36'12	-0°02'08
minimum elong	-8162 Dec 07 j 01:51	18°♎36'12	0°02'15
behind sun begin	-8162 Dec 06 j 19:14	18°♎35'17	
behind sun end	-8162 Dec 07 j 08:29	18°♎37'07	
max. Earth dist.	-8162 Dec 08 j 08:45	18°♎40'36	21.08755 AU
morning rise	-8162 Dec 23 j 06:09	19°♎31'03	
retrograde	-8161 Mar 28 j 02:54	22°♎38'09	
min. Earth dist.	-8161 Jun 13 j 02:57	20°♎41'13	19.09115 AU
opposition	-8161 Jun 14 j 07:02	20°♎38'24	-0°04'40
direct	-8161 Aug 28 j 07:14	18°♎42'24	
evening set	-8161 Nov 25 j 06:50	21°♎39'05	
conjunction	-8161 Dec 11 j 07:47	22°♎33'24	-0°06'18
minimum elong	-8161 Dec 11 j 07:47	22°♎33'24	0°06'26
behind sun begin	-8161 Dec 11 j 01:32	22°♎32'32	
behind sun end	-8161 Dec 11 j 14:02	22°♎34'15	
max. Earth dist.	-8161 Dec 12 j 13:06	22°♎37'33	21.09296 AU
morning rise	-8161 Dec 27 j 13:17	23°♎28'20	
retrograde	-8160 Mar 31 j 09:35	26°♎35'23	
min. Earth dist.	-8160 Jun 16 j 10:57	24°♎38'16	19.09464 AU
opposition	-8160 Jun 17 j 13:05	24°♎35'37	-0°09'15
direct	-8160 Aug 31 j 10:23	22°♎39'37	
evening set	-8160 Nov 28 j 11:56	25°♎36'18	
conjunction	-8160 Dec 14 j 14:05	26°♎30'42	-0°10'25
minimum elong	-8160 Dec 14 j 14:05	26°♎30'42	0°10'36
behind sun begin	-8160 Dec 14 j 08:56	26°♎29'59	
behind sun end	-8160 Dec 14 j 19:13	26°♎31'25	
max. Earth dist.	-8160 Dec 15 j 19:11	26°♎34'50	21.09449 AU
morning rise	-8160 Dec 30 j 20:29	27°♎25'43	
	-8159 Feb 26 j 14:33	0°♏	
retrograde	-8159 Apr 04 j 18:36	0°♏32'47	
	-8159 May 12 j 13:46	30°℞♎	
opposition	-8159 Jun 21 j 18:53	28°♎33'02	-0°13'49
min. Earth dist.	-8159 Jun 20 j 16:51	28°♎35'40	19.09398 AU
direct	-8159 Sep 04 j 15:16	26°♎37'02	
evening set	-8159 Dec 02 j 17:24	29°♎33'46	
	-8159 Dec 10 j 12:59	0°♏	
conjunction	-8159 Dec 18 j 20:25	0°♏28'17	-0°14'30
minimum elong	-8159 Dec 18 j 20:25	0°♏28'17	0°14'43
behind sun begin	-8159 Dec 18 j 17:45	0°♏27'55	
behind sun end	-8159 Dec 18 j 23:06	0°♏28'39	
max. Earth dist.	-8159 Dec 19 j 23:38	0°♏32'08	21.09163 AU
morning rise	-8158 Jan 04 j 04:00	1°♏23'25	
retrograde	-8158 Apr 09 j 01:43	4°♏30'31	
min. Earth dist.	-8158 Jun 25 j 01:00	2°♏33'12	19.08885 AU
opposition	-8158 Jun 26 j 00:45	2°♏30'47	-0°18'18
direct	-8158 Sep 08 j 18:33	0°♏34'44	
evening set	-8158 Dec 06 j 23:18	3°♏31'38	
conjunction	-8158 Dec 23 j 03:32	4°♏26'16	-0°18'32
minimum elong	-8158 Dec 23 j 03:31	4°♏26'16	0°18'47
max. Earth dist.	-8158 Dec 24 j 06:02	4°♏30'02	21.08416 AU
morning rise	-8157 Jan 08 j 12:00	5°♏21'31	
retrograde	-8157 Apr 13 j 11:09	8°♏28'42	
min. Earth dist.	-8157 Jun 29 j 07:03	6°♏31'20	19.07879 AU
opposition	-8157 Jun 30 j 06:13	6°♏28'59	-0°22'43
direct	-8157 Sep 12 j 23:25	4°♏32'51	
evening set	-8157 Dec 11 j 05:52	7°♏29'59	
conjunction	-8157 Dec 27 j 11:00	8°♏24'45	-0°22'28
minimum elong	-8157 Dec 27 j 11:00	8°♏24'45	0°22'45
max. Earth dist.	-8157 Dec 28 j 11:00	8°♏28'09	21.07144 AU
morning rise	-8156 Jan 12 j 20:36	9°♏20'08	
retrograde	-8156 Apr 16 j 18:46	12°♏27'25	
opposition	-8156 Jul 03 j 11:55	10°♏27'40	-0°27'02
min. Earth dist.	-8156 Jul 02 j 15:28	10°♏29'45	19.06336 AU
direct	-8156 Sep 16 j 02:45	8°♏31'25	
evening set	-8156 Dec 14 j 12:41	11°♏28'50	
conjunction	-8156 Dec 30 j 18:59	12°♏23'45	-0°26'19
minimum elong	-8156 Dec 30 j 18:59	12°♏23'45	0°26'38
max. Earth dist.	-8156 Dec 31 j 17:47	12°♏26'59	21.05324 AU
morning rise	-8155 Jan 16 j 05:24	13°♏19'16	
	-8155 Feb 18 j 12:58	15°♏	
retrograde	-8155 Apr 21 j 04:43	16°♏26'41	
	-8155 Jun 24 j 00:06	15°℞♏	
opposition	-8155 Jul 07 j 17:23	14°♏26'53	-0°31'13
min. Earth dist.	-8155 Jul 06 j 21:43	14°♏28'53	19.04227 AU
direct	-8155 Sep 20 j 08:28	12°♏30'28	
	-8155 Dec 10 j 04:26	15°♏	
evening set	-8155 Dec 18 j 20:07	15°♏28'14	
conjunction	-8154 Jan 04 j 03:20	16°♏23'18	-0°30'02
minimum elong	-8154 Jan 04 j 03:20	16°♏23'18	0°30'23
max. Earth dist.	-8154 Jan 04 j 23:25	16°♏26'09	21.02937 AU
morning rise	-8154 Jan 20 j 14:49	17°♏18'59	
retrograde	-8154 Apr 25 j 12:13	20°♏26'32	
opposition	-8154 Jul 11 j 23:01	18°♏26'38	-0°35'16
min. Earth dist.	-8154 Jul 11 j 06:14	18°♏28'21	19.01568 AU
direct	-8154 Sep 24 j 11:45	16°♏30'00	
evening set	-8154 Dec 23 j 03:50	19°♏28'09	
conjunction	-8153 Jan 08 j 12:16	20°♏23'25	-0°33'37
minimum elong	-8153 Jan 08 j 12:16	20°♏23'25	0°34'00
max. Earth dist.	-8153 Jan 09 j 06:57	20°♏26'04	21.00023 AU
morning rise	-8153 Jan 25 j 00:36	21°♏19'15	
retrograde	-8153 Apr 29 j 22:57	24°♏26'58	
opposition	-8153 Jul 16 j 04:31	22°♏26'57	-0°39'09
min. Earth dist.	-8153 Jul 15 j 12:38	22°♏28'34	18.98389 AU
direct	-8153 Sep 28 j 18:17	20°♏30'02	
evening set	-8153 Dec 27 j 12:19	23°♏28'40	
conjunction	-8152 Jan 12 j 21:38	24°♏24'07	-0°37'03
minimum elong	-8152 Jan 12 j 21:38	24°♏24'07	0°37'27
max. Earth dist.	-8152 Jan 13 j 13:35	24°♏26'23	20.96604 AU
morning rise	-8152 Jan 29 j 10:56	25°♏20'08	
retrograde	-8152 May 03 j 06:21	28°♏28'01	

Attention, astronomical year style is used: The year -8152 in astronomical counting style is the year 8153 BCE in historical counting style.

opposition	-8152 Jul 19 j 10:03	26°♏27'51	-0°42'50	
min. Earth dist.	-8152 Jul 18 j 21:07	26°♏29'11	18.94751 AU	
direct	-8152 Oct 01 j 21:56	24°♏30'39		
evening set	-8152 Dec 30 j 21:08	27°♏29'50		
conjunction	-8151 Jan 16 j 07:34	28°♏25'29	-0°40'17	
minimum elong	-8151 Jan 16 j 07:34	28°♏25'29	0°40'43	
max. Earth dist.	-8151 Jan 16 j 22:06	28°♏27'32	20.92770 AU	
morning rise	-8151 Feb 01 j 21:36	29°♏21'40		
	-8151 Feb 13 j 16:46	0°♐		
retrograde	-8151 May 07 j 17:14	2°♐29'46		
opposition	-8151 Jul 23 j 15:38	0°♐29'28	-0°46'20	
min. Earth dist.	-8151 Jul 23 j 03:31	0°♐30'43	18.90723 AU	
	-8151 Aug 04 j 16:29	30°℞♏		
direct	-8151 Oct 06 j 04:51	28°♏31'57		
	-8151 Dec 05 j 08:05	0°♐		
evening set	-8150 Jan 04 j 06:30	1°♐31'45		
conjunction	-8150 Jan 20 j 17:47	2°♐27'36	-0°43'21	
minimum elong	-8150 Jan 20 j 17:47	2°♐27'36	0°43'48	
max. Earth dist.	-8150 Jan 21 j 05:47	2°♐29'19	20.88563 AU	
morning rise	-8150 Feb 06 j 08:42	3°♐23'59		
retrograde	-8150 May 12 j 01:34	6°♐32'21		
opposition	-8150 Jul 27 j 21:34	4°♐31'55	-0°49'37	
min. Earth dist.	-8150 Jul 27 j 12:14	4°♐32'53	18.86361 AU	
direct	-8150 Oct 10 j 09:22	2°♐34'04		
evening set	-8149 Jan 08 j 16:33	5°♐34'34		
conjunction	-8149 Jan 25 j 04:55	6°♐30'39	-0°46'12	
minimum elong	-8149 Jan 25 j 04:54	6°♐30'39	0°46'40	
max. Earth dist.	-8149 Jan 25 j 15:20	6°♐32'08	20.84058 AU	
morning rise	-8149 Feb 10 j 20:31	7°♐27'14		
retrograde	-8149 May 16 j 12:37	10°♐35'53		
opposition	-8149 Aug 01 j 03:25	8°♐35'21	-0°52'40	
min. Earth dist.	-8149 Jul 31 j 18:57	8°♐36'13	18.81713 AU	
direct	-8149 Oct 14 j 16:34	6°♐37'10		
evening set	-8148 Jan 13 j 03:28	9°♐38'28		
conjunction	-8148 Jan 29 j 16:38	10°♐34'47	-0°48'51	
minimum elong	-8148 Jan 29 j 16:38	10°♐34'47	0°49'19	
max. Earth dist.	-8148 Jan 30 j 00:27	10°♐35'54	20.79273 AU	
morning rise	-8148 Feb 15 j 08:58	11°♐31'35		
retrograde	-8148 May 19 j 22:17	14°♐40'35		
opposition	-8148 Aug 04 j 09:52	12°♐39'56	-0°55'28	
min. Earth dist.	-8148 Aug 04 j 04:12	12°♐40'32	18.76809 AU	
direct	-8148 Oct 17 j 22:02	10°♐41'27		
evening set	-8147 Jan 16 j 14:50	13°♐43'36		
conjunction	-8147 Feb 02 j 04:57	14°♐40'10	-0°51'15	
minimum elong	-8147 Feb 02 j 04:56	14°♐40'10	0°51'45	
max. Earth dist.	-8147 Feb 02 j 11:00	14°♐41'02	20.74258 AU	
morning rise	-8147 Feb 18 j 21:51	15°♐37'11		
retrograde	-8147 May 24 j 10:08	18°♐46'34		
opposition	-8147 Aug 08 j 16:28	16°♐45'52	-0°58'01	
min. Earth dist.	-8147 Aug 08 j 11:39	16°♐46'22	18.71677 AU	
direct	-8147 Oct 22 j 05:43	14°♐47'04		
evening set	-8146 Jan 21 j 03:13	17°♐50'10		
conjunction	-8146 Feb 06 j 18:05	18°♐47'00	-0°53'25	
minimum elong	-8146 Feb 06 j 18:05	18°♐47'00	0°53'55	
max. Earth dist.	-8146 Feb 06 j 21:35	18°♐47'30	20.69011 AU	
morning rise	-8146 Feb 23 j 11:36	19°♐44'14		
retrograde	-8146 May 28 j 21:00	22°♐54'03		
opposition	-8146 Aug 12 j 23:36	20°♐53'18	-1°00'17	
min. Earth dist.	-8146 Aug 12 j 21:42	20°♐53'30	18.66322 AU	
direct	-8146 Oct 26 j 12:17	18°♐54'12		
evening set	-8145 Jan 25 j 16:26	21°♐58'19		
conjunction	-8145 Feb 11 j 08:10	22°♐55'26	-0°55'19	
minimum elong	-8145 Feb 11 j 08:10	22°♐55'26	0°55'51	
max. Earth dist.	-8145 Feb 11 j 09:31	22°♐55'37	20.63552 AU	
morning rise	-8145 Feb 28 j 02:13	23°♐52'54		
retrograde	-8145 Jun 02 j 10:12	27°♐03'11		
opposition	-8145 Aug 17 j 07:07	25°♐02'24	-1°02'15	
min. Earth dist.	-8145 Aug 17 j 06:23	25°♐02'28	18.60739 AU	
direct	-8145 Oct 30 j 21:03	23°♐02'59		
evening set	-8144 Jan 30 j 06:42	26°♐08'13		
conjunction	-8144 Feb 15 j 23:06	27°♐05'36	-0°56'56	
minimum elong	-8144 Feb 15 j 23:06	27°♐05'35	0°57'28	
max. Earth dist.	-8144 Feb 15 j 21:45	27°♐05'24	20.57834 AU	
morning rise	-8144 Mar 03 j 17:32	28°♐03'18		
	-8144 Apr 11 j 10:09	0°♑		
retrograde	-8144 Jun 05 j 22:12	1°♑14'04		
	-8144 Aug 01 j 15:02	30°℞♐		
opposition	-8144 Aug 20 j 15:15	29°♐13'16	-1°03'54	
min. Earth dist.	-8144 Aug 20 j 17:39	29°♐13'01	18.54897 AU	
direct	-8144 Nov 03 j 04:59	27°♐13'32		
	-8143 Jan 27 j 23:12	0°♑		
evening set	-8143 Feb 02 j 21:50	0°♑19'55		
conjunction	-8143 Feb 19 j 14:56	1°♑17'34	-0°58'16	
minimum elong	-8143 Feb 19 j 14:56	1°♑17'34	0°58'48	
max. Earth dist.	-8143 Feb 19 j 10:57	1°♑17'00	20.51867 AU	
morning rise	-8143 Mar 08 j 09:46	2°♑15'31		
retrograde	-8143 Jun 10 j 12:31	5°♑26'48		
opposition	-8143 Aug 24 j 23:55	3°♑25'57	-1°05'13	
min. Earth dist.	-8143 Aug 25 j 03:40	3°♑25'33	18.48793 AU	
direct	-8143 Nov 07 j 15:25	1°♑25'52		
evening set	-8142 Feb 07 j 13:50	4°♑33'26		
conjunction	-8142 Feb 24 j 07:33	5°♑31'23	-0°59'17	
minimum elong	-8142 Feb 24 j 07:33	5°♑31'23	0°59'49	
max. Earth dist.	-8142 Feb 24 j 00:53	5°♑30'25	20.45613 AU	
morning rise	-8142 Mar 13 j 02:40	6°♑29'34		
retrograde	-8142 Jun 15 j 01:33	9°♑41'23		
opposition	-8142 Aug 29 j 09:22	7°♑40'28	-1°06'12	
min. Earth dist.	-8142 Aug 29 j 16:18	7°♑39'44	18.42402 AU	
direct	-8142 Nov 12 j 00:48	5°♑40'00		
evening set	-8141 Feb 12 j 06:53	8°♑48'47		
conjunction	-8141 Mar 01 j 01:10	9°♑47'02	-0°59'58	
minimum elong	-8141 Mar 01 j 01:10	9°♑47'02	1°00'30	
max. Earth dist.	-8141 Feb 28 j 15:27	9°♑45'36	20.39096 AU	
morning rise	-8141 Mar 17 j 20:35	10°♑45'27		
retrograde	-8141 Jun 19 j 16:52	13°♑57'46		
opposition	-8141 Sep 02 j 19:12	11°♑56'46	-1°06'48	
min. Earth dist.	-8141 Sep 03 j 03:39	11°♑55'52	18.35758 AU	
direct	-8141 Nov 16 j 13:41	9°♑55'53		
evening set	-8140 Feb 17 j 00:49	13°♑05'55		
conjunction	-8140 Mar 04 j 19:37	14°♑04'27	-1°00'20	
minimum elong	-8140 Mar 04 j 19:37	14°♑04'27	1°00'53	
max. Earth dist.	-8140 Mar 04 j 07:29	14°♑02'40	20.32330 AU	
morning rise	-8140 Mar 21 j 15:05	15°♑03'06		
retrograde	-8140 Jun 23 j 06:26	18°♑15'56		
opposition	-8140 Sep 06 j 05:54	16°♑14'50	-1°07'03	
min. Earth dist.	-8140 Sep 06 j 17:18	16°♑13'37	18.28900 AU	
direct	-8140 Nov 20 j 00:36	14°♑13'30		
evening set	-8139 Feb 20 j 19:22	17°♑24'48		
conjunction	-8139 Mar 09 j 14:33	18°♑23'36	-1°00'22	
minimum elong	-8139 Mar 09 j 14:33	18°♑23'36	1°00'53	
max. Earth dist.	-8139 Mar 08 j 23:27	18°♑21'23	20.25405 AU	
morning rise	-8139 Mar 26 j 10:12	19°♑22'30		

Attention, astronomical year style is used: The year -8139 in astronomical counting style is the year 8140 BCE in historical counting style.

retrograde	-8139 Jun 27 j 22:48	22°♅35'52	
opposition	-8139 Sep 10 j 17:03	20°♅34'37	-1°06'55
min. Earth dist.	-8139 Sep 11 j 05:51	20°♅33'15	18.21918 AU
direct	-8139 Nov 24 j 15:24	18°♅32'50	
evening set	-8138 Feb 25 j 14:52	21°♅45'24	
conjunction	-8138 Mar 14 j 10:29	22°♅44'30	-1°00'03
minimum elong	-8138 Mar 14 j 10:29	22°♅44'30	1°00'35
max. Earth dist.	-8138 Mar 13 j 17:34	22°♅42'00	20.18376 AU
morning rise	-8138 Mar 31 j 06:00	23°♅43'37	
retrograde	-8138 Jul 02 j 13:26	26°♅57'30	
opposition	-8138 Sep 15 j 04:53	24°♅56'08	-1°06'23
min. Earth dist.	-8138 Sep 15 j 20:18	24°♅54'29	18.14875 AU
direct	-8138 Nov 29 j 04:14	22°♅53'53	
evening set	-8137 Mar 02 j 11:17	26°♅07'46	
max. Earth dist.	-8137 Mar 18 j 11:12	27°♅04'11	20.11342 AU
conjunction	-8137 Mar 19 j 07:05	27°♅07'08	-0°59'23
minimum elong	-8137 Mar 19 j 07:05	27°♅07'08	0°59'53
morning rise	-8137 Apr 05 j 02:40	28°♅06'29	
	-8137 May 11 j 09:27	0°♒	
retrograde	-8137 Jul 07 j 06:45	1°♒20'53	
	-8137 Sep 03 j 16:12	30°℞♅	
opposition	-8137 Sep 19 j 17:25	29°♅19'23	-1°05'29
min. Earth dist.	-8137 Sep 20 j 10:06	29°♅17'36	18.07865 AU
direct	-8137 Dec 03 j 20:04	27°♅16'40	
	-8136 Feb 26 j 00:36	0°♒	
evening set	-8136 Mar 06 j 08:21	0°♒31'52	
max. Earth dist.	-8136 Mar 22 j 07:21	1°♒28'23	20.04356 AU
conjunction	-8136 Mar 23 j 04:24	1°♒31'31	-0°58'22
minimum elong	-8136 Mar 23 j 04:24	1°♒31'31	0°58'51
morning rise	-8136 Apr 08 j 23:37	2°♒31'05	
retrograde	-8136 Jul 10 j 23:20	5°♒46'01	
opposition	-8136 Sep 23 j 06:48	3°♒44'25	-1°04'11
min. Earth dist.	-8136 Sep 24 j 01:32	3°♒42'24	18.00942 AU
direct	-8136 Dec 07 j 10:47	1°♒41'16	
evening set	-8135 Mar 11 j 06:18	4°♒57'48	
max. Earth dist.	-8135 Mar 27 j 02:27	5°♒54'07	19.97515 AU
conjunction	-8135 Mar 28 j 02:18	5°♒57'41	-0°57'00
minimum elong	-8135 Mar 28 j 02:18	5°♒57'41	0°57'29
morning rise	-8135 Apr 13 j 21:26	6°♒57'29	
retrograde	-8135 Jul 15 j 17:46	10°♒12'58	
opposition	-8135 Sep 27 j 20:49	8°♒11'16	-1°02'30
min. Earth dist.	-8135 Sep 28 j 16:39	8°♒09'07	17.94201 AU
direct	-8135 Dec 12 j 03:29	6°♒07'41	
evening set	-8134 Mar 16 j 04:53	9°♒25'33	
max. Earth dist.	-8134 Apr 01 j 00:32	10°♒22'02	19.90864 AU
conjunction	-8134 Apr 02 j 01:04	10°♒25'43	-0°55'17
minimum elong	-8134 Apr 02 j 01:04	10°♒25'43	0°55'44
morning rise	-8134 Apr 18 j 19:41	11°♒25'43	
retrograde	-8134 Jul 20 j 12:25	14°♒41'43	
opposition	-8134 Oct 02 j 11:48	12°♒39'59	-1°00'26
min. Earth dist.	-8134 Oct 03 j 09:16	12°♒37'39	17.87660 AU
direct	-8134 Dec 16 j 19:47	10°♒36'02	
evening set	-8133 Mar 21 j 04:33	13°♒55'14	
max. Earth dist.	-8133 Apr 05 j 21:09	14°♒51'31	19.84450 AU
conjunction	-8133 Apr 07 j 00:27	14°♒55'38	-0°53'14
minimum elong	-8133 Apr 07 j 00:28	14°♒55'38	0°53'40
	-8133 Apr 08 j 05:22	15°♒	
morning rise	-8133 Apr 23 j 18:47	15°♒55'51	
retrograde	-8133 Jul 25 j 08:05	19°♒12'24	
opposition	-8133 Oct 07 j 03:31	17°♒10'37	-0°57'58
min. Earth dist.	-8133 Oct 08 j 02:10	17°♒08'10	17.81379 AU
direct	-8133 Dec 21 j 13:54	15°♒06'19	
evening set	-8132 Mar 25 j 04:48	18°♒26'52	
max. Earth dist.	-8132 Apr 09 j 21:05	19°♒23'20	19.78293 AU
conjunction	-8132 Apr 11 j 00:41	19°♒27'31	-0°50'49
minimum elong	-8132 Apr 11 j 00:41	19°♒27'31	0°51'13
morning rise	-8132 Apr 27 j 18:19	20°♒27'54	
retrograde	-8132 Jul 29 j 04:25	23°♒45'00	
opposition	-8132 Oct 10 j 20:15	21°♒43'14	-0°55'07
min. Earth dist.	-8132 Oct 11 j 20:09	21°♒40'38	17.75351 AU
direct	-8132 Dec 25 j 07:54	19°♒38'39	
evening set	-8131 Mar 30 j 05:49	23°♒00'29	
max. Earth dist.	-8131 Apr 14 j 19:07	23°♒56'46	19.72399 AU
conjunction	-8131 Apr 16 j 01:14	24°♒01'21	-0°48'04
minimum elong	-8131 Apr 16 j 01:14	24°♒01'21	0°48'26
morning rise	-8131 May 02 j 18:26	25°♒01'54	
retrograde	-8131 Aug 03 j 01:05	28°♒19'34	
opposition	-8131 Oct 15 j 13:51	26°♒17'47	-0°51'54
min. Earth dist.	-8131 Oct 16 j 15:08	26°♒15'02	17.69590 AU
direct	-8131 Dec 30 j 03:56	24°♒12'55	
evening set	-8130 Apr 04 j 07:35	27°♒36'02	
max. Earth dist.	-8130 Apr 19 j 20:24	28°♒32'28	19.66751 AU
conjunction	-8130 Apr 21 j 02:46	28°♒37'06	-0°45'00
minimum elong	-8130 Apr 21 j 02:47	28°♒37'06	0°45'20
morning rise	-8130 May 07 j 19:08	29°♒37'48	
	-8130 May 14 j 01:51	0°♓	
retrograde	-8130 Aug 07 j 22:25	2°♓55'59	
opposition	-8130 Oct 20 j 08:15	0°♓54'13	-0°48'19
min. Earth dist.	-8130 Oct 21 j 10:33	0°♓51'21	17.64056 AU
	-8130 Nov 10 j 19:31	30°℞♒	
direct	-8129 Jan 04 j 00:16	28°♒49'05	
	-8129 Feb 26 j 01:09	0°♓	
evening set	-8129 Apr 09 j 10:14	2°♓13'26	
max. Earth dist.	-8129 Apr 24 j 19:59	3°♓09'39	19.61333 AU
conjunction	-8129 Apr 26 j 04:46	3°♓14'41	-0°41'37
minimum elong	-8129 Apr 26 j 04:47	3°♓14'41	0°41'54
morning rise	-8129 May 12 j 20:25	4°♓15'31	
retrograde	-8129 Aug 12 j 19:51	7°♓34'13	
opposition	-8129 Oct 25 j 03:46	5°♓32'26	-0°44'23
min. Earth dist.	-8129 Oct 26 j 07:33	5°♓29'24	17.58767 AU
direct	-8128 Jan 08 j 22:22	3°♓27'02	
evening set	-8128 Apr 13 j 13:09	6°♓52'32	
max. Earth dist.	-8128 Apr 28 j 22:19	7°♓48'51	19.56160 AU
conjunction	-8128 Apr 30 j 07:12	7°♓53'55	-0°37'56
minimum elong	-8128 Apr 30 j 07:12	7°♓53'55	0°38'12
morning rise	-8128 May 16 j 21:53	8°♓54'52	
retrograde	-8128 Aug 16 j 18:10	12°♓14'03	
opposition	-8128 Oct 29 j 00:06	10°♓12'14	-0°40'08
min. Earth dist.	-8128 Oct 30 j 04:14	10°♓09'10	17.53717 AU
direct	-8127 Jan 12 j 21:30	8°♓06'35	
evening set	-8127 Apr 18 j 16:45	11°♓33'09	
max. Earth dist.	-8127 May 03 j 23:21	12°♓29'19	19.51248 AU
conjunction	-8127 May 05 j 10:00	12°♓34'41	-0°33'58
minimum elong	-8127 May 05 j 10:00	12°♓34'41	0°34'12
morning rise	-8127 May 21 j 23:48	13°♓35'43	
retrograde	-8127 Aug 21 j 15:51	16°♓55'20	
opposition	-8127 Nov 02 j 21:09	14°♓53'29	-0°35'36
min. Earth dist.	-8127 Nov 04 j 02:45	14°♓50'15	17.48966 AU
direct	-8126 Jan 17 j 21:04	12°♓47'34	
evening set	-8126 Apr 23 j 20:36	16°♓15'07	
max. Earth dist.	-8126 May 09 j 02:33	17°♓11'23	19.46661 AU

Attention, astronomical year style is used: The year -8126 in astronomical counting style is the year 8127 BCE in historical counting style.

conjunction	-8126 May 10 j 13:11	17°♓16'46	-0°29'47
minimum elong	-8126 May 10 j 13:11	17°♓16'46	0°29'58
morning rise	-8126 May 27 j 01:58	18°♓17'53	
retrograde	-8126 Aug 26 j 15:04	21°♓37'53	
opposition	-8126 Nov 07 j 18:59	19°♓35'59	-0°30'49
min. Earth dist.	-8126 Nov 09 j 00:20	19°♓32'46	17.44546 AU
direct	-8125 Jan 22 j 22:38	17°♓29'50	
evening set	-8125 Apr 29 j 00:48	20°♓58'17	
max. Earth dist.	-8125 May 14 j 05:06	21°♓54'30	19.42433 AU
conjunction	-8125 May 15 j 16:26	22°♓00'00	-0°25'22
minimum elong	-8125 May 15 j 16:27	22°♓00'00	0°25'31
morning rise	-8125 Jun 01 j 04:07	23°♓01'10	
retrograde	-8125 Aug 31 j 13:02	26°♓21'31	
opposition	-8125 Nov 12 j 17:39	24°♓19'34	-0°25'48
min. Earth dist.	-8125 Nov 14 j 00:09	24°♓16'15	17.40538 AU
direct	-8124 Jan 27 j 23:45	22°♓13'12	
evening set	-8124 May 03 j 05:04	25°♓42'27	
max. Earth dist.	-8124 May 18 j 08:43	26°♓38'45	19.38661 AU
conjunction	-8124 May 19 j 19:45	26°♓44'13	-0°20'47
minimum elong	-8124 May 19 j 19:45	26°♓44'13	0°20'52
morning rise	-8124 Jun 05 j 06:22	27°♓45'25	
	-8124 Jul 17 j 06:06	0°♈	
retrograde	-8124 Sep 04 j 13:04	1°♈06'05	
	-8124 Oct 25 j 12:22	30°♓℞	
opposition	-8124 Nov 16 j 16:52	29°♓04'05	-0°20'35
min. Earth dist.	-8124 Nov 17 j 22:22	29°♓00'52	17.37007 AU
direct	-8123 Feb 01 j 03:00	26°♓57'32	
	-8123 Apr 30 j 18:57	0°♈	
evening set	-8123 May 08 j 09:17	0°♈27'27	
conjunction	-8123 May 24 j 22:59	1°♈29'15	-0°16'02
minimum elong	-8123 May 24 j 22:59	1°♈29'15	0°16'05
max. Earth dist.	-8123 May 23 j 12:28	1°♈23'51	19.35389 AU
morning rise	-8123 Jun 10 j 08:22	2°♈30'28	
retrograde	-8123 Sep 09 j 11:25	5°♈51'24	
opposition	-8123 Nov 21 j 16:51	3°♈49'22	-0°15'14
min. Earth dist.	-8123 Nov 22 j 23:02	3°♈46'04	17.34018 AU
direct	-8122 Feb 06 j 04:42	1°♈42'39	
evening set	-8122 May 13 j 13:40	5°♈13'10	
max. Earth dist.	-8122 May 28 j 16:03	6°♈09'36	19.32696 AU
conjunction	-8122 May 30 j 02:11	6°♈14'58	-0°11'11
minimum elong	-8122 May 30 j 02:10	6°♈14'58	0°11'11
behind sun begin	-8122 May 29 j 21:14	6°♈14'12	
behind sun end	-8122 May 30 j 07:07	6°♈15'43	
morning rise	-8122 Jun 15 j 10:26	7°♈16'09	
retrograde	-8122 Sep 14 j 12:29	10°♈37'20	
opposition	-8122 Nov 26 j 17:14	8°♈35'16	-0°09'45
min. Earth dist.	-8122 Nov 27 j 21:49	8°♈32'09	17.31625 AU
direct	-8121 Feb 11 j 08:51	6°♈28'28	
evening set	-8121 May 18 j 17:56	9°♈59'27	
max. Earth dist.	-8121 Jun 02 j 20:50	10°♈56'06	19.30619 AU
conjunction	-8121 Jun 04 j 05:22	11°♈01'14	-0°06'16
minimum elong	-8121 Jun 04 j 05:21	11°♈01'14	0°06'13
behind sun begin	-8121 Jun 03 j 23:00	11°♈00'15	
behind sun end	-8121 Jun 04 j 11:42	11°♈02'12	
morning rise	-8121 Jun 20 j 12:11	12°♈02'23	
retrograde	-8121 Sep 19 j 11:38	15°♈23'45	
opposition	-8121 Dec 01 j 18:30	13°♈21'42	-0°04'12
min. Earth dist.	-8121 Dec 02 j 23:10	13°♈18'35	17.29880 AU
direct	-8120 Feb 16 j 10:47	11°♈14'53	
evening set	-8120 May 22 j 22:00	14°♈46'14	
max. Earth dist.	-8120 Jun 07 j 00:05	15°♈42'54	19.29217 AU
conjunction	-8120 Jun 08 j 08:03	15°♈47'56	-0°01'15
minimum elong	-8120 Jun 08 j 08:02	15°♈47'56	0°01'10
behind sun begin	-8120 Jun 08 j 01:20	15°♈46'55	
behind sun end	-8120 Jun 08 j 14:44	15°♈48'58	
morning rise	-8120 Jun 24 j 13:46	16°♈49'01	
asc. node	-8120 Sep 06 j 21:22	20°♈02'41	
retrograde	-8120 Sep 23 j 13:20	20°♈10'35	
opposition	-8120 Dec 05 j 20:03	18°♈08'34	0°01'24
min. Earth dist.	-8120 Dec 06 j 22:42	18°♈05'41	17.28809 AU
direct	-8119 Feb 20 j 14:57	16°♈01'47	
evening set	-8119 May 28 j 01:52	19°♈33'23	
max. Earth dist.	-8119 Jun 12 j 05:15	20°♈30'21	19.28479 AU
conjunction	-8119 Jun 13 j 10:48	20°♈35'02	0°03'53
minimum elong	-8119 Jun 13 j 10:48	20°♈35'02	0°04'01
behind sun begin	-8119 Jun 13 j 04:12	20°♈34'01	
behind sun end	-8119 Jun 13 j 17:24	20°♈36'03	
morning rise	-8119 Jun 29 j 15:04	21°♈36'01	
retrograde	-8119 Sep 28 j 13:04	24°♈57'42	
opposition	-8119 Dec 10 j 22:06	22°♈55'47	0°07'00
min. Earth dist.	-8119 Dec 12 j 00:28	22°♈52'55	17.28396 AU
direct	-8118 Feb 25 j 17:30	20°♈49'06	
evening set	-8118 Jun 02 j 05:42	24°♈20'51	
max. Earth dist.	-8118 Jun 17 j 08:06	25°♈17'46	19.28396 AU
conjunction	-8118 Jun 18 j 13:09	25°♈22'22	0°08'51
minimum elong	-8118 Jun 18 j 13:09	25°♈22'22	0°09'01
behind sun begin	-8118 Jun 18 j 07:27	25°♈21'29	
behind sun end	-8118 Jun 18 j 18:51	25°♈23'15	
morning rise	-8118 Jul 04 j 16:18	26°♈23'15	
retrograde	-8118 Oct 03 j 14:38	29°♈45'01	
opposition	-8118 Dec 16 j 00:36	27°♈43'13	0°12'33
min. Earth dist.	-8118 Dec 17 j 00:58	27°♈40'34	17.28619 AU
direct	-8117 Mar 02 j 22:19	25°♈36'40	
evening set	-8117 Jun 07 j 08:57	29°♈08'26	
	-8117 Jun 21 j 01:16	0°♉	
conjunction	-8117 Jun 23 j 15:12	0°♉09'50	0°13'47
minimum elong	-8117 Jun 23 j 15:12	0°♉09'50	0°14'00
behind sun begin	-8117 Jun 23 j 11:50	0°♉09'18	
behind sun end	-8117 Jun 23 j 18:34	0°♉10'21	
max. Earth dist.	-8117 Jun 22 j 13:00	0°♉05'40	19.28915 AU
morning rise	-8117 Jul 09 j 16:52	1°♉10'34	
retrograde	-8117 Oct 08 j 14:22	4°♉32'23	
opposition	-8117 Dec 21 j 03:40	2°♉30'41	0°18'01
min. Earth dist.	-8117 Dec 22 j 03:14	2°♉28'08	17.29417 AU
direct	-8116 Mar 07 j 02:41	0°♉24'20	
evening set	-8116 Jun 11 j 12:03	3°♉55'59	
conjunction	-8116 Jun 27 j 16:46	4°♉57'11	0°18'37
minimum elong	-8116 Jun 27 j 16:46	4°♉57'11	0°18'53
max. Earth dist.	-8116 Jun 26 j 15:11	4°♉53'08	19.29994 AU
morning rise	-8116 Jul 13 j 17:19	5°♉57'46	
retrograde	-8116 Oct 12 j 14:51	9°♉19'35	
opposition	-8116 Dec 25 j 06:48	7°♉17'58	0°23'22
min. Earth dist.	-8116 Dec 26 j 04:30	7°♉15'38	17.30764 AU
direct	-8115 Mar 12 j 07:59	5°♉11'48	
evening set	-8115 Jun 16 j 14:27	8°♉43'12	
conjunction	-8115 Jul 02 j 17:58	9°♉44'13	0°23'20
minimum elong	-8115 Jul 02 j 17:58	9°♉44'13	0°23'37
max. Earth dist.	-8115 Jul 01 j 19:16	9°♉40'37	19.31588 AU
morning rise	-8115 Jul 18 j 17:08	10°♉44'38	
retrograde	-8115 Oct 17 j 14:34	14°♉06'22	
opposition	-8115 Dec 30 j 10:16	12°♉04'50	0°28'32
min. Earth dist.	-8115 Dec 31 j 06:38	12°♉02'39	17.32586 AU
direct	-8114 Mar 17 j 13:34	9°♉58'54	

Attention, astronomical year style is used: The year -8114 in astronomical counting style is the year 8115 BCE in historical counting style.

evening set	-8114 Jun	21 j 16:30	13°♉29'53	
conjunction	-8114 Jul	07 j 18:30	14°♉30'41	0°27'52
minimum elong	-8114 Jul	07 j 18:30	14°♉30'41	0°28'13
max. Earth dist.	-8114 Jul	06 j 20:40	14°♉27'14	19.33643 AU
	-8114 Jul	15 j 11:19	15°♉	
morning rise	-8114 Jul	23 j 16:32	15°♉30'54	
retrograde	-8114 Oct	22 j 13:55	18°♉52'31	
opposition	-8113 Jan	04 j 13:50	16°♉51'03	0°33'30
min. Earth dist.	-8113 Jan	05 j 08:29	16°♉49'03	17.34873 AU
	-8113 Feb	26 j 17:50	15°℞♉	
direct	-8113 Mar	22 j 18:31	14°♉45'18	
	-8113 Apr	15 j 10:28	15°♉	
evening set	-8113 Jun	26 j 17:46	18°♉15'47	
conjunction	-8113 Jul	12 j 18:32	19°♉16'21	0°32'12
minimum elong	-8113 Jul	12 j 18:32	19°♉16'21	0°32'33
max. Earth dist.	-8113 Jul	11 j 23:38	19°♉13'21	19.36153 AU
morning rise	-8113 Jul	28 j 15:17	20°♉16'21	
retrograde	-8113 Oct	27 j 13:37	23°♉37'46	
opposition	-8112 Jan	09 j 17:26	21°♉36'21	0°38'12
min. Earth dist.	-8112 Jan	10 j 10:00	21°♉34'35	17.37590 AU
direct	-8112 Mar	26 j 23:54	19°♉30'50	
evening set	-8112 Jun	30 j 18:14	23°♉00'38	
conjunction	-8112 Jul	16 j 17:38	24°♉00'58	0°36'17
minimum elong	-8112 Jul	16 j 17:37	24°♉00'58	0°36'42
max. Earth dist.	-8112 Jul	16 j 00:11	23°♉58'12	19.39092 AU
morning rise	-8112 Aug	01 j 13:21	25°♉00'45	
retrograde	-8112 Oct	31 j 12:15	28°♉21'55	
opposition	-8111 Jan	13 j 20:53	26°♉20'32	0°42'37
min. Earth dist.	-8111 Jan	14 j 11:52	26°♉18'57	17.40750 AU
direct	-8111 Apr	01 j 03:30	24°♉15'13	
evening set	-8111 Jul	05 j 17:54	27°♉44'17	
conjunction	-8111 Jul	21 j 16:07	28°♉44'20	0°40'07
minimum elong	-8111 Jul	21 j 16:06	28°♉44'20	0°40'33
max. Earth dist.	-8111 Jul	21 j 01:30	28°♉42'01	19.42471 AU
morning rise	-8111 Aug	06 j 10:45	29°♉43'53	
	-8111 Aug	10 j 19:49	0°♊	
retrograde	-8111 Nov	05 j 11:27	3°♊04'43	
opposition	-8110 Jan	18 j 23:55	1°♊03'23	0°46'44
min. Earth dist.	-8110 Jan	19 j 12:11	1°♊02'05	17.44334 AU
	-8110 Feb	14 j 03:18	30°℞♉	
direct	-8110 Apr	06 j 08:02	28°♉58'19	
	-8110 May	25 j 11:47	0°♊	
evening set	-8110 Jul	10 j 16:44	2°♊26'29	
conjunction	-8110 Jul	26 j 13:41	3°♊26'16	0°43'39
minimum elong	-8110 Jul	26 j 13:41	3°♊26'16	0°44'06
max. Earth dist.	-8110 Jul	26 j 01:14	3°♊24'18	19.46281 AU
morning rise	-8110 Aug	11 j 07:21	4°♊25'34	
retrograde	-8110 Nov	10 j 09:14	7°♊46'05	
opposition	-8109 Jan	24 j 02:57	5°♊44'45	0°50'30
min. Earth dist.	-8109 Jan	24 j 13:34	5°♊43'38	17.48380 AU
direct	-8109 Apr	11 j 10:30	3°♊39'56	
evening set	-8109 Jul	15 j 14:27	7°♊07'09	
conjunction	-8109 Jul	31 j 10:15	8°♊06'38	0°46'53
minimum elong	-8109 Jul	31 j 10:14	8°♊06'38	0°47'22
max. Earth dist.	-8109 Jul	31 j 00:41	8°♊05'07	19.50562 AU
morning rise	-8109 Aug	16 j 03:01	9°♊05'41	
retrograde	-8109 Nov	15 j 07:44	12°♊25'48	
opposition	-8108 Jan	29 j 05:30	10°♊24'31	0°53'55
min. Earth dist.	-8108 Jan	29 j 12:39	10°♊23'46	17.52888 AU
direct	-8108 Apr	15 j 13:58	8°♊19'59	
evening set	-8108 Jul	19 j 11:20	11°♊46'10	

conjunction	-8108 Aug	04 j 06:03	12°♊45'21	0°49'48
minimum elong	-8108 Aug	04 j 06:03	12°♊45'21	0°50'16
max. Earth dist.	-8108 Aug	03 j 23:20	12°♊44'18	19.55306 AU
morning rise	-8108 Aug	19 j 21:57	13°♊44'09	
retrograde	-8108 Nov	19 j 04:29	17°♊03'52	
opposition	-8107 Feb	02 j 07:34	15°♊02'38	0°56'58
min. Earth dist.	-8107 Feb	02 j 13:01	15°♊02'03	17.57880 AU
direct	-8107 Apr	20 j 14:53	12°♊58'26	
evening set	-8107 Jul	24 j 07:18	16°♊23'32	
conjunction	-8107 Aug	09 j 00:58	17°♊22'25	0°52'22
minimum elong	-8107 Aug	09 j 00:57	17°♊22'25	0°52'53
max. Earth dist.	-8107 Aug	08 j 20:48	17°♊21'46	19.60537 AU
morning rise	-8107 Aug	24 j 16:11	18°♊20'57	
retrograde	-8107 Nov	24 j 02:18	21°♊40'14	
opposition	-8106 Feb	07 j 09:08	19°♊39'06	0°59'37
min. Earth dist.	-8106 Feb	07 j 10:49	19°♊38'55	17.63330 AU
direct	-8106 Apr	25 j 16:51	17°♊35'17	
evening set	-8106 Jul	29 j 02:14	20°♊59'14	
conjunction	-8106 Aug	13 j 18:59	21°♊57'50	0°54'35
minimum elong	-8106 Aug	13 j 18:59	21°♊57'50	0°55'07
max. Earth dist.	-8106 Aug	13 j 18:06	21°♊57'41	19.66203 AU
morning rise	-8106 Aug	29 j 09:28	22°♊56'06	
retrograde	-8106 Nov	28 j 21:56	26°♊14'57	
opposition	-8105 Feb	12 j 10:26	24°♊13'56	1°01'53
min. Earth dist.	-8105 Feb	12 j 10:24	24°♊13'57	17.69208 AU
direct	-8105 Apr	30 j 16:52	22°♊10'34	
evening set	-8105 Aug	02 j 20:22	25°♊33'20	
conjunction	-8105 Aug	18 j 12:12	26°♊31'37	0°56'27
minimum elong	-8105 Aug	18 j 12:12	26°♊31'37	0°56'59
max. Earth dist.	-8105 Aug	18 j 13:32	26°♊31'50	19.72281 AU
morning rise	-8105 Sep	03 j 02:13	27°♊29'38	
	-8105 Oct	22 j 04:05	0°♋	
retrograde	-8105 Dec	03 j 19:02	0°♋48'03	
	-8104 Jan	17 j 03:17	30°℞♊	
opposition	-8104 Feb	17 j 10:58	28°♊47'10	1°03'45
min. Earth dist.	-8104 Feb	17 j 07:14	28°♊47'34	17.75455 AU
direct	-8104 May	04 j 17:12	26°♊44'15	
	-8104 Aug	04 j 23:04	0°♋	
evening set	-8104 Aug	06 j 13:27	0°♋05'49	
conjunction	-8104 Aug	22 j 04:38	1°♋03'48	0°57'58
minimum elong	-8104 Aug	22 j 04:38	1°♋03'48	0°58'31
max. Earth dist.	-8104 Aug	22 j 09:18	1°♋04'32	19.78676 AU
morning rise	-8104 Sep	06 j 18:06	2°♋01'33	
retrograde	-8104 Dec	07 j 13:24	5°♋19'30	
opposition	-8103 Feb	21 j 11:06	3°♋18'47	1°05'12
min. Earth dist.	-8103 Feb	21 j 05:54	3°♋19'20	17.81983 AU
direct	-8103 May	09 j 16:11	1°♋16'21	
evening set	-8103 Aug	11 j 05:50	4°♋36'40	
conjunction	-8103 Aug	26 j 20:12	5°♋34'21	0°59'06
minimum elong	-8103 Aug	26 j 20:12	5°♋34'21	0°59'38
max. Earth dist.	-8103 Aug	27 j 02:34	5°♋35'20	19.85317 AU
morning rise	-8103 Sep	11 j 09:25	6°♋31'50	
retrograde	-8103 Dec	12 j 09:02	9°♋49'18	
opposition	-8102 Feb	26 j 10:24	7°♋48'44	1°06'14
min. Earth dist.	-8102 Feb	26 j 01:53	7°♋49'37	17.88713 AU
direct	-8102 May	14 j 15:06	5°♋46'45	
evening set	-8102 Aug	15 j 21:18	9°♋05'49	
conjunction	-8102 Aug	31 j 11:11	10°♋03'12	0°59'52
minimum elong	-8102 Aug	31 j 11:11	10°♋03'12	1°00'25
max. Earth dist.	-8102 Aug	31 j 20:48	10°♋04'41	19.92111 AU
morning rise	-8102 Sep	15 j 23:59	11°♋00'26	

Attention, astronomical year style is used: The year -8102 in astronomical counting style is the year 8103 BCE in historical counting style.

retrograde	-8102 Dec 17 j 02:01	14°♋17'24	
opposition	-8101 Mar 03 j 09:23	12°♋16'59	1°06'52
min. Earth dist.	-8101 Mar 02 j 23:30	12°♋18'00	17.95563 AU
direct	-8101 May 19 j 12:22	10°♋15'28	
evening set	-8101 Aug 20 j 11:56	13°♋33'12	
conjunction	-8101 Sep 05 j 01:12	14°♋30'17	1°00'16
minimum elong	-8101 Sep 05 j 01:12	14°♋30'17	1°00'48
max. Earth dist.	-8101 Sep 05 j 12:06	14°♋31'58	19.98997 AU
morning rise	-8101 Sep 20 j 13:59	15°♋27'17	
retrograde	-8101 Dec 21 j 20:32	18°♋43'44	
opposition	-8100 Mar 07 j 07:28	16°♋43'26	1°07'05
min. Earth dist.	-8100 Mar 06 j 18:41	16°♋44'44	18.02467 AU
direct	-8100 May 23 j 09:14	14°♋42'19	
evening set	-8100 Aug 24 j 01:42	17°♋58'45	
conjunction	-8100 Sep 08 j 14:44	18°♋55'33	1°00'18
minimum elong	-8100 Sep 08 j 14:44	18°♋55'33	1°00'50
max. Earth dist.	-8100 Sep 09 j 04:39	18°♋57'41	20.05887 AU
morning rise	-8100 Sep 24 j 03:17	19°♋52'19	
retrograde	-8100 Dec 25 j 11:49	23°♋08'11	
opposition	-8099 Mar 12 j 04:43	21°♋08'00	1°06'53
min. Earth dist.	-8099 Mar 11 j 14:44	21°♋09'26	18.09342 AU
direct	-8099 May 28 j 04:33	19°♋07'18	
evening set	-8099 Aug 28 j 14:46	22°♋22'23	
conjunction	-8099 Sep 13 j 03:21	23°♋18'55	0°59'59
minimum elong	-8099 Sep 13 j 03:21	23°♋18'55	1°00'30
max. Earth dist.	-8099 Sep 13 j 18:07	23°♋21'10	20.12738 AU
morning rise	-8099 Sep 28 j 16:05	24°♋15'27	
retrograde	-8099 Dec 30 j 04:56	27°♋30'45	
min. Earth dist.	-8098 Mar 16 j 08:50	25°♋32'18	18.16161 AU
opposition	-8098 Mar 17 j 01:16	25°♋30'37	1°06'19
direct	-8098 Jun 01 j 23:06	23°♋30'17	
evening set	-8098 Sep 02 j 02:38	26°♋44'01	
conjunction	-8098 Sep 17 j 15:11	27°♋40'17	0°59'19
minimum elong	-8098 Sep 17 j 15:11	27°♋40'17	0°59'49
max. Earth dist.	-8098 Sep 18 j 08:59	27°♋43'00	20.19509 AU
morning rise	-8098 Oct 03 j 03:53	28°♋36'36	
	-8098 Oct 28 j 03:33	0°♌	
retrograde	-8097 Jan 03 j 19:19	1°♌51'19	
	-8097 Mar 18 j 06:48	30°℞♋	
opposition	-8097 Mar 21 j 21:05	29°♋51'14	1°05'22
min. Earth dist.	-8097 Mar 21 j 03:14	29°♋53'03	18.22885 AU
direct	-8097 Jun 06 j 17:03	27°♋51'15	
	-8097 Aug 18 j 19:51	0°♌	
evening set	-8097 Sep 06 j 13:54	1°♌03'37	
conjunction	-8097 Sep 22 j 02:13	1°♌59'38	0°58'19
minimum elong	-8097 Sep 22 j 02:13	1°♌59'38	0°58'50
max. Earth dist.	-8097 Sep 22 j 20:50	2°♌02'27	20.26195 AU
morning rise	-8097 Oct 07 j 15:18	2°♌55'45	
retrograde	-8096 Jan 08 j 10:42	6°♌09'51	
opposition	-8096 Mar 25 j 15:51	4°♌09'47	1°04'03
min. Earth dist.	-8096 Mar 24 j 19:54	4°♌11'48	18.29539 AU
direct	-8096 Jun 10 j 09:03	2°♌10'06	
evening set	-8096 Sep 10 j 00:07	5°♌21'08	
conjunction	-8096 Sep 25 j 12:36	6°♌16'55	0°57'00
minimum elong	-8096 Sep 25 j 12:36	6°♌16'55	0°57'28
max. Earth dist.	-8096 Sep 26 j 10:12	6°♌20'11	20.32801 AU
morning rise	-8096 Oct 11 j 01:50	7°♌12'50	
retrograde	-8095 Jan 12 j 00:12	10°♌26'20	
opposition	-8095 Mar 30 j 09:46	8°♌26'17	1°02'24
min. Earth dist.	-8095 Mar 29 j 12:14	8°♌28'28	18.36106 AU
direct	-8095 Jun 15 j 01:46	6°♌26'55	
evening set	-8095 Sep 14 j 09:40	9°♌36'39	
conjunction	-8095 Sep 29 j 22:02	10°♌32'11	0°55'23
minimum elong	-8095 Sep 29 j 22:02	10°♌32'12	0°55'51
max. Earth dist.	-8095 Sep 30 j 20:27	10°♌35'34	20.39336 AU
morning rise	-8095 Oct 15 j 11:47	11°♌27'55	
retrograde	-8094 Jan 16 j 14:10	14°♌40'51	
min. Earth dist.	-8094 Apr 03 j 03:25	12°♌43'10	18.42624 AU
opposition	-8094 Apr 04 j 02:51	12°♌40'48	1°00'25
direct	-8094 Jun 19 j 15:34	10°♌41'45	
evening set	-8094 Sep 18 j 18:24	13°♌50'14	
conjunction	-8094 Oct 04 j 07:05	14°♌45'34	0°53'29
minimum elong	-8094 Oct 04 j 07:06	14°♌45'34	0°53'55
max. Earth dist.	-8094 Oct 05 j 08:27	14°♌49'22	20.45820 AU
	-8094 Oct 08 j 07:26	15°♌	
morning rise	-8094 Oct 19 j 21:07	15°♌41'07	
retrograde	-8093 Jan 21 j 02:46	18°♌53'29	
opposition	-8093 Apr 08 j 19:04	16°♌53'29	0°58'08
min. Earth dist.	-8093 Apr 07 j 17:53	16°♌56'02	18.49076 AU
	-8093 Jun 09 j 22:01	15°℞♌	
direct	-8093 Jun 24 j 06:39	14°♌54'47	
	-8093 Jul 08 j 11:33	15°♌	
evening set	-8093 Sep 23 j 02:35	18°♌02'03	
conjunction	-8093 Oct 08 j 15:22	18°♌57'11	0°51'19
minimum elong	-8093 Oct 08 j 15:22	18°♌57'11	0°51'43
max. Earth dist.	-8093 Oct 09 j 17:20	19°♌01'04	20.52238 AU
morning rise	-8093 Oct 24 j 06:07	19°♌52'35	
retrograde	-8092 Jan 25 j 15:51	23°♌04'25	
min. Earth dist.	-8092 Apr 11 j 07:54	21°♌07'10	18.55456 AU
opposition	-8092 Apr 12 j 10:29	21°♌04'29	0°55'33
direct	-8092 Jun 27 j 18:32	19°♌06'07	
evening set	-8092 Sep 26 j 10:05	22°♌12'15	
conjunction	-8092 Oct 11 j 23:22	23°♌07'13	0°48'53
minimum elong	-8092 Oct 11 j 23:22	23°♌07'13	0°49'15
max. Earth dist.	-8092 Oct 13 j 03:52	23°♌11'27	20.58551 AU
morning rise	-8092 Oct 27 j 14:32	24°♌02'29	
retrograde	-8091 Jan 29 j 03:28	27°♌13'47	
min. Earth dist.	-8091 Apr 15 j 20:47	25°♌16'47	18.61692 AU
opposition	-8091 Apr 17 j 00:54	25°♌13'57	0°52'41
direct	-8091 Jul 02 j 07:42	23°♌15'57	
evening set	-8091 Sep 30 j 17:12	26°♌21'00	
conjunction	-8091 Oct 16 j 06:43	27°♌15'48	0°46'12
minimum elong	-8091 Oct 16 j 06:43	27°♌15'48	0°46'33
max. Earth dist.	-8091 Oct 17 j 11:30	27°♌20'03	20.64707 AU
morning rise	-8091 Oct 31 j 22:43	28°♌10'56	
	-8091 Dec 05 j 23:24	0°♍	
retrograde	-8090 Feb 02 j 15:47	1°♍21'47	
	-8090 Apr 05 j 14:26	30°℞♌	
min. Earth dist.	-8090 Apr 20 j 09:55	29°♌24'58	18.67757 AU
opposition	-8090 Apr 21 j 14:51	29°♌22'03	0°49'34
direct	-8090 Jul 06 j 17:54	27°♌24'23	
	-8090 Sep 26 j 14:17	0°♍	
evening set	-8090 Oct 04 j 23:36	0°♍28'25	
conjunction	-8090 Oct 20 j 13:46	1°♍23'05	0°43'18
minimum elong	-8090 Oct 20 j 13:46	1°♍23'05	0°43'37
max. Earth dist.	-8090 Oct 21 j 20:45	1°♍27'39	20.70652 AU
morning rise	-8090 Nov 05 j 06:20	2°♍18'06	
retrograde	-8089 Feb 07 j 02:44	5°♍28'31	
min. Earth dist.	-8089 Apr 24 j 21:47	3°♍31'55	18.73562 AU
opposition	-8089 Apr 26 j 04:00	3°♍28'53	0°46'13
direct	-8089 Jul 11 j 05:26	1°♍31'34	
evening set	-8089 Oct 09 j 05:58	4°♍34'39	

Attention, astronomical year style is used: The year -8089 in astronomical counting style is the year 8090 BCE in historical counting style.

conjunction	-8089 Oct 24 j 20:30	5°♍29'10	0°40'11
minimum elong	-8089 Oct 24 j 20:30	5°♍29'10	0°40'27
max. Earth dist.	-8089 Oct 26 j 03:18	5°♍33'41	20.76307 AU
morning rise	-8089 Nov 09 j 14:02	6°♍24'06	
retrograde	-8088 Feb 11 j 14:08	9°♍34'06	
min. Earth dist.	-8088 Apr 28 j 10:08	7°♍37'36	18.79058 AU
opposition	-8088 Apr 29 j 16:24	7°♍34'34	0°42'38
direct	-8088 Jul 14 j 14:19	5°♍37'33	
evening set	-8088 Oct 12 j 11:50	8°♍39'44	
conjunction	-8088 Oct 28 j 03:08	9°♍34'09	0°36'52
minimum elong	-8088 Oct 28 j 03:08	9°♍34'10	0°37'08
max. Earth dist.	-8088 Oct 29 j 11:30	9°♍38'53	20.81611 AU
morning rise	-8088 Nov 12 j 21:18	10°♍29'00	
retrograde	-8087 Feb 15 j 00:31	13°♍38'36	
min. Earth dist.	-8087 May 02 j 20:57	11°♍42'17	18.84154 AU
opposition	-8087 May 04 j 04:07	11°♍39'09	0°38'51
direct	-8087 Jul 19 j 00:20	9°♍42'26	
evening set	-8087 Oct 16 j 17:28	12°♍43'46	
conjunction	-8087 Nov 01 j 09:14	13°♍38'05	0°33'23
minimum elong	-8087 Nov 01 j 09:14	13°♍38'05	0°33'36
max. Earth dist.	-8087 Nov 02 j 17:00	13°♍42'43	20.86488 AU
morning rise	-8087 Nov 17 j 04:26	14°♍32'52	
retrograde	-8086 Feb 19 j 10:30	17°♍42'07	
min. Earth dist.	-8086 May 07 j 08:41	15°♍45'47	18.88810 AU
opposition	-8086 May 08 j 15:23	15°♍42'42	0°34'54
direct	-8086 Jul 23 j 08:33	13°♍46'12	
evening set	-8086 Oct 20 j 22:47	16°♍46'46	
conjunction	-8086 Nov 05 j 15:27	17°♍41'01	0°29'45
minimum elong	-8086 Nov 05 j 15:27	17°♍41'01	0°29'56
max. Earth dist.	-8086 Nov 07 j 00:21	17°♍45'47	20.90902 AU
morning rise	-8086 Nov 21 j 11:24	18°♍35'44	
retrograde	-8085 Feb 23 j 20:39	21°♍44'37	
min. Earth dist.	-8085 May 11 j 18:28	19°♍48'22	18.92971 AU
opposition	-8085 May 13 j 01:47	19°♍45'14	0°30'47
direct	-8085 Jul 27 j 17:29	17°♍48'55	
evening set	-8085 Oct 25 j 03:58	20°♍48'45	
conjunction	-8085 Nov 09 j 21:16	21°♍42'55	0°25'59
minimum elong	-8085 Nov 09 j 21:17	21°♍42'55	0°26'08
max. Earth dist.	-8085 Nov 11 j 05:11	21°♍47'32	20.94813 AU
morning rise	-8085 Nov 25 j 18:22	22°♍37'37	
retrograde	-8084 Feb 28 j 04:55	25°♍46'09	
min. Earth dist.	-8084 May 15 j 05:19	23°♍49'47	18.96633 AU
opposition	-8084 May 16 j 11:42	23°♍46'45	0°26'32
direct	-8084 Jul 31 j 00:35	21°♍50'33	
evening set	-8084 Oct 28 j 08:45	24°♍49'43	
conjunction	-8084 Nov 13 j 03:02	25°♍43'51	0°22'06
minimum elong	-8084 Nov 13 j 03:02	25°♍43'51	0°22'12
max. Earth dist.	-8084 Nov 14 j 11:51	25°♍48'35	20.98226 AU
morning rise	-8084 Nov 29 j 00:55	26°♍38'30	
retrograde	-8083 Mar 03 j 14:21	29°♍46'42	
opposition	-8083 May 20 j 20:41	27°♍47'16	0°22'11
min. Earth dist.	-8083 May 19 j 13:49	27°♍50'22	18.99798 AU
direct	-8083 Aug 04 j 08:45	25°♍51'10	
evening set	-8083 Nov 01 j 13:27	28°♍49'43	
conjunction	-8083 Nov 17 j 08:25	29°♍43'49	0°18'09
minimum elong	-8083 Nov 17 j 08:25	29°♍43'49	0°18'13
max. Earth dist.	-8083 Nov 18 j 16:12	29°♍48'23	21.01166 AU
	-8083 Nov 22 j 00:57	0°♎	
morning rise	-8083 Dec 03 j 07:29	0°♎38'28	
retrograde	-8082 Mar 07 j 21:19	3°♎46'22	
min. Earth dist.	-8082 May 23 j 23:31	1°♎49'52	19.02526 AU
opposition	-8082 May 25 j 05:20	1°♎46'53	0°17'45
	-8082 Jul 20 j 12:48	30°℞♍	
direct	-8082 Aug 08 j 14:16	29°♍50'50	
	-8082 Aug 27 j 09:56	0°♎	
evening set	-8082 Nov 05 j 17:48	2°♎48'51	
conjunction	-8082 Nov 21 j 13:51	3°♎42'56	0°14'07
minimum elong	-8082 Nov 21 j 13:51	3°♎42'56	0°14'08
behind sun begin	-8082 Nov 21 j 10:34	3°♎42'28	
behind sun end	-8082 Nov 21 j 17:08	3°♎43'23	
max. Earth dist.	-8082 Nov 22 j 22:30	3°♎47'37	21.03684 AU
morning rise	-8082 Dec 07 j 13:49	4°♎37'35	
retrograde	-8081 Mar 12 j 06:04	7°♎45'13	
min. Earth dist.	-8081 May 28 j 06:55	5°♎48'43	19.04835 AU
opposition	-8081 May 29 j 13:15	5°♎45'40	0°13'15
direct	-8081 Aug 12 j 21:33	3°♎49'40	
evening set	-8081 Nov 09 j 22:22	6°♎47'14	
conjunction	-8081 Nov 25 j 19:11	7°♎41'19	0°10'02
minimum elong	-8081 Nov 25 j 19:11	7°♎41'19	0°10'02
behind sun begin	-8081 Nov 25 j 13:51	7°♎40'35	
behind sun end	-8081 Nov 26 j 00:31	7°♎42'04	
max. Earth dist.	-8081 Nov 27 j 02:37	7°♎45'49	21.05797 AU
morning rise	-8081 Dec 11 j 20:20	8°♎36'00	
retrograde	-8080 Mar 15 j 12:45	11°♎43'25	
opposition	-8080 Jun 01 j 20:39	9°♎43'49	0°08'42
min. Earth dist.	-8080 May 31 j 15:36	9°♎46'44	19.06765 AU
direct	-8080 Aug 16 j 01:50	7°♎47'50	
evening set	-8080 Nov 13 j 02:43	10°♎45'03	
conjunction	-8080 Nov 29 j 00:41	11°♎39'10	0°05'56
minimum elong	-8080 Nov 29 j 00:40	11°♎39'10	0°05'53
behind sun begin	-8080 Nov 28 j 18:21	11°♎38'17	
behind sun end	-8080 Nov 29 j 06:59	11°♎40'02	
max. Earth dist.	-8080 Nov 30 j 08:41	11°♎43'44	21.07541 AU
morning rise	-8080 Dec 15 j 02:42	12°♎33'52	
retrograde	-8079 Mar 19 j 21:01	15°♎41'06	
min. Earth dist.	-8079 Jun 04 j 22:07	13°♎44'27	19.08315 AU
opposition	-8079 Jun 06 j 03:38	13°♎41'29	0°04'08
direct	-8079 Aug 20 j 07:56	11°♎45'33	
evening set	-8079 Nov 17 j 07:09	14°♎42'28	
conjunction	-8079 Dec 03 j 05:55	15°♎36'37	0°01'46
minimum elong	-8079 Dec 03 j 05:55	15°♎36'37	0°01'41
behind sun begin	-8079 Dec 02 j 23:18	15°♎35'42	
behind sun end	-8079 Dec 03 j 12:32	15°♎37'32	
max. Earth dist.	-8079 Dec 04 j 12:34	15°♎40'59	21.08906 AU
morning rise	-8079 Dec 19 j 09:10	16°♎31'23	
retrograde	-8078 Mar 24 j 04:05	19°♎38'30	
desc. node	-8078 May 05 j 00:57	18°♎58'55	
min. Earth dist.	-8078 Jun 09 j 06:24	17°♎41'41	19.09496 AU
opposition	-8078 Jun 10 j 10:27	17°♎38'51	-0°00'28
direct	-8078 Aug 24 j 11:33	15°♎42'57	
evening set	-8078 Nov 21 j 11:43	18°♎39'41	
conjunction	-8078 Dec 07 j 11:41	19°♎33'54	-0°02'31
minimum elong	-8078 Dec 07 j 11:40	19°♎33'54	0°02'37
behind sun begin	-8078 Dec 07 j 05:04	19°♎32'59	
behind sun end	-8078 Dec 07 j 18:17	19°♎34'49	
max. Earth dist.	-8078 Dec 08 j 18:38	19°♎38'18	21.09896 AU
morning rise	-8078 Dec 23 j 15:51	20°♎28'43	
retrograde	-8077 Mar 28 j 12:22	23°♎35'45	
opposition	-8077 Jun 14 j 16:41	21°♎36'07	-0°05'04
min. Earth dist.	-8077 Jun 13 j 12:32	21°♎38'57	19.10277 AU
direct	-8077 Aug 28 j 17:00	19°♎40'13	
evening set	-8077 Nov 25 j 16:42	22°♎36'52	

Attention, astronomical year style is used: The year -8077 in astronomical counting style is the year 8078 BCE in historical counting style.

conjunction	-8077 Dec 11 j 17:32	23°♎31'09	-0°06'39	
minimum elong	-8077 Dec 11 j 17:32	23°♎31'09	0°06'48	
behind sun begin	-8077 Dec 11 j 11:21	23°♎30'17		
behind sun end	-8077 Dec 11 j 23:43	23°♎32'00		
max. Earth dist.	-8077 Dec 12 j 22:43	23°♎35'17	21.10470 AU	
morning rise	-8077 Dec 27 j 22:56	24°♎26'03		
retrograde	-8076 Mar 31 j 19:46	27°♎33'03		
opposition	-8076 Jun 17 j 22:54	25°♎33'25	-0°09'38	
min. Earth dist.	-8076 Jun 16 j 20:42	25°♎36'03	19.10634 AU	
direct	-8076 Aug 31 j 19:57	23°♎37'32		
evening set	-8076 Nov 28 j 21:46	26°♎34'09		
conjunction	-8076 Dec 14 j 23:45	27°♎28'31	-0°10'45	
minimum elong	-8076 Dec 14 j 23:45	27°♎28'31	0°10'56	
behind sun begin	-8076 Dec 14 j 18:45	27°♎27'50		
behind sun end	-8076 Dec 15 j 04:46	27°♎29'13		
max. Earth dist.	-8076 Dec 16 j 04:51	27°♎32'39	21.10600 AU	
morning rise	-8076 Dec 31 j 06:01	28°♎23'30		
	-8075 Jan 31 j 23:13	0°♏		
retrograde	-8075 Apr 05 j 04:23	1°♏30'31		
	-8075 Jun 10 j 01:40	30°℞♎		
min. Earth dist.	-8075 Jun 21 j 02:49	29°♎33'30	19.10518 AU	
opposition	-8075 Jun 22 j 04:44	29°♎30'53	-0°14'10	
direct	-8075 Sep 05 j 01:24	27°♎34'59		
	-8075 Nov 23 j 09:46	0°♏		
evening set	-8075 Dec 03 j 03:25	0°♏31'40		
conjunction	-8075 Dec 19 j 06:17	1°♏26'09	-0°14'49	
minimum elong	-8075 Dec 19 j 06:17	1°♏26'08	0°15'03	
behind sun begin	-8075 Dec 19 j 04:00	1°♏25'49		
behind sun end	-8075 Dec 19 j 08:34	1°♏26'27		
max. Earth dist.	-8075 Dec 20 j 09:11	1°♏29'57	21.10240 AU	
morning rise	-8074 Jan 04 j 13:44	2°♏21'14		
retrograde	-8074 Apr 09 j 11:55	5°♏28'18		
min. Earth dist.	-8074 Jun 25 j 11:06	3°♏31'02	19.09904 AU	
opposition	-8074 Jun 26 j 10:36	3°♏28'39	-0°18'38	
direct	-8074 Sep 09 j 04:12	1°♏32'41		
evening set	-8074 Dec 07 j 09:19	4°♏29'31		
conjunction	-8074 Dec 23 j 13:25	5°♏24'07	-0°18'49	
minimum elong	-8074 Dec 23 j 13:25	5°♏24'07	0°19'05	
max. Earth dist.	-8074 Dec 24 j 15:40	5°♏27'50	21.09359 AU	
morning rise	-8073 Jan 08 j 21:46	6°♏19'20		
retrograde	-8073 Apr 13 j 21:09	9°♏26'27		
opposition	-8073 Jun 30 j 16:15	7°♏26'46	-0°23'02	
min. Earth dist.	-8073 Jun 29 j 17:26	7°♏29'05	19.08734 AU	
direct	-8073 Sep 13 j 09:53	5°♏30'42		
evening set	-8073 Dec 11 j 15:54	8°♏27'44		
conjunction	-8073 Dec 27 j 20:54	9°♏22'29	-0°22'44	
minimum elong	-8073 Dec 27 j 20:54	9°♏22'29	0°23'02	
max. Earth dist.	-8073 Dec 28 j 20:24	9°♏25'48	21.07900 AU	
morning rise	-8072 Jan 13 j 06:21	10°♏17'50		
retrograde	-8072 Apr 17 j 04:37	13°♏25'02		
opposition	-8072 Jul 03 j 21:53	11°♏25'18	-0°27'19	
min. Earth dist.	-8072 Jul 03 j 01:49	11°♏27'21	19.06989 AU	
direct	-8072 Sep 16 j 13:17	9°♏29'05		
evening set	-8072 Dec 14 j 22:40	12°♏26'23		
conjunction	-8072 Dec 31 j 04:53	13°♏21'17	-0°26'33	
minimum elong	-8072 Dec 31 j 04:53	13°♏21'17	0°26'52	
max. Earth dist.	-8071 Jan 01 j 03:20	13°♏24'28	21.05877 AU	
morning rise	-8071 Jan 16 j 15:11	14°♏16'46		
	-8071 Jan 30 j 00:52	15°♏		
retrograde	-8071 Apr 21 j 13:58	17°♏24'05		
min. Earth dist.	-8071 Jul 07 j 08:06	15°♏26'14	19.04678 AU	
opposition	-8071 Jul 08 j 03:24	15°♏24'16	-0°31'28	
	-8071 Jul 18 j 03:16	15°℞♏		
direct	-8071 Sep 20 j 18:55	13°♏27'51		
	-8071 Nov 21 j 10:45	15°♏		
evening set	-8071 Dec 19 j 05:52	16°♏25'29		
conjunction	-8070 Jan 04 j 13:00	17°♏20'32	-0°30'14	
minimum elong	-8070 Jan 04 j 13:00	17°♏20'32	0°30'35	
max. Earth dist.	-8070 Jan 05 j 08:41	17°♏23'19	21.03300 AU	
morning rise	-8070 Jan 21 j 00:25	18°♏16'11		
retrograde	-8070 Apr 25 j 21:42	21°♏23'39		
opposition	-8070 Jul 12 j 09:02	19°♏23'42	-0°35'28	
min. Earth dist.	-8070 Jul 11 j 16:32	19°♏25'23	19.01844 AU	
direct	-8070 Sep 24 j 22:59	17°♏27'02		
evening set	-8070 Dec 23 j 13:33	20°♏25'05		
conjunction	-8069 Jan 08 j 21:53	21°♏20'19	-0°33'47	
minimum elong	-8069 Jan 08 j 21:53	21°♏20'19	0°34'10	
max. Earth dist.	-8069 Jan 09 j 16:26	21°♏22'57	21.00232 AU	
morning rise	-8069 Jan 25 j 10:07	22°♏16'07		
retrograde	-8069 Apr 30 j 07:12	25°♏23'45		
opposition	-8069 Jul 16 j 14:20	23°♏23'41	-0°39'18	
min. Earth dist.	-8069 Jul 15 j 22:40	23°♏25'17	18.98542 AU	
direct	-8069 Sep 29 j 04:38	21°♏26'44		
evening set	-8069 Dec 27 j 21:54	24°♏25'16		
conjunction	-8068 Jan 13 j 07:05	25°♏20'42	-0°37'10	
minimum elong	-8068 Jan 13 j 07:05	25°♏20'42	0°37'34	
max. Earth dist.	-8068 Jan 13 j 22:52	25°♏22'56	20.96718 AU	
morning rise	-8068 Jan 29 j 20:18	26°♏16'41		
retrograde	-8068 May 03 j 15:23	29°♏24'31		
opposition	-8068 Jul 19 j 19:56	27°♏24'19	-0°42'57	
min. Earth dist.	-8068 Jul 19 j 07:00	27°♏25'38	18.94838 AU	
direct	-8068 Oct 02 j 08:52	25°♏27'04		
evening set	-8068 Dec 31 j 06:27	28°♏26'11		
conjunction	-8067 Jan 16 j 16:46	29°♏21'49	-0°40'23	
minimum elong	-8067 Jan 16 j 16:45	29°♏21'49	0°40'49	
max. Earth dist.	-8067 Jan 17 j 07:27	29°♏23'54	20.92836 AU	
	-8067 Jan 27 j 21:58	0°♐		
morning rise	-8067 Feb 02 j 06:41	0°♐17'59		
retrograde	-8067 May 08 j 01:41	3°♐26'04		
opposition	-8067 Jul 24 j 01:29	1°♐25'44	-0°46'25	
min. Earth dist.	-8067 Jul 23 j 13:13	1°♐27'00	18.90784 AU	
	-8067 Aug 31 j 20:56	30°℞♏		
direct	-8067 Oct 06 j 15:05	29°♏28'12		
	-8067 Nov 10 j 19:49	0°♐		
evening set	-8066 Jan 04 j 15:53	2°♐27'58		
conjunction	-8066 Jan 21 j 03:02	3°♐23'49	-0°43'24	
minimum elong	-8066 Jan 21 j 03:02	3°♐23'49	0°43'51	
max. Earth dist.	-8066 Jan 21 j 15:02	3°♐25'31	20.88625 AU	
morning rise	-8066 Feb 06 j 17:51	4°♐20'11		
retrograde	-8066 May 12 j 10:21	7°♐28'33		
opposition	-8066 Jul 28 j 07:18	5°♐28'07	-0°49'40	
min. Earth dist.	-8066 Jul 27 j 21:47	5°♐29'07	18.86434 AU	
direct	-8066 Oct 10 j 19:16	3°♐30'18		
evening set	-8065 Jan 09 j 01:51	6°♐30'47		
conjunction	-8065 Jan 25 j 14:07	7°♐26'52	-0°46'13	
minimum elong	-8065 Jan 25 j 14:06	7°♐26'52	0°46'42	
max. Earth dist.	-8065 Jan 26 j 00:46	7°♐28'23	20.84141 AU	
morning rise	-8065 Feb 11 j 05:36	8°♐23'26		
retrograde	-8065 May 16 j 22:18	11°♐32'09		
opposition	-8065 Aug 01 j 13:16	9°♐31'38	-0°52'40	
min. Earth dist.	-8065 Aug 01 j 04:31	9°♐32'32	18.81809 AU	
direct	-8065 Oct 15 j 02:26	7°♐33'30		
evening set	-8064 Jan 13 j 12:44	10°♐34'49		

Attention, astronomical year style is used: The year -8064 in astronomical counting style is the year 8065 BCE in historical counting style.

conjunction	-8064 Jan 30 j 01:45	11°♐31'08	-0°48'50
minimum elong	-8064 Jan 30 j 01:45	11°♐31'08	0°49'19
max. Earth dist.	-8064 Jan 30 j 09:40	11°♐32'16	20.79382 AU
morning rise	-8064 Feb 15 j 17:59	12°♐27'56	
retrograde	-8064 May 20 j 07:28	15°♐37'00	
opposition	-8064 Aug 04 j 19:40	13°♐36'26	-0°55'27
min. Earth dist.	-8064 Aug 04 j 13:45	13°♐37'03	18.76928 AU
direct	-8064 Oct 18 j 07:01	11°♐38'01	
evening set	-8063 Jan 17 j 00:11	14°♐40'13	
conjunction	-8063 Feb 02 j 14:13	15°♐36'47	-0°51'12
minimum elong	-8063 Feb 02 j 14:13	15°♐36'47	0°51'43
max. Earth dist.	-8063 Feb 02 j 20:34	15°♐37'42	20.74386 AU
morning rise	-8063 Feb 19 j 07:02	16°♐33'48	
retrograde	-8063 May 24 j 20:45	19°♐43'18	
opposition	-8063 Aug 09 j 02:19	17°♐42'40	-0°57'57
min. Earth dist.	-8063 Aug 08 j 21:20	17°♐43'11	18.71803 AU
direct	-8063 Oct 22 j 15:13	15°♐43'58	
evening set	-8062 Jan 21 j 12:35	18°♐47'08	
conjunction	-8062 Feb 07 j 03:21	19°♐43'58	-0°53'20
minimum elong	-8062 Feb 07 j 03:21	19°♐43'58	0°53'52
max. Earth dist.	-8062 Feb 07 j 06:54	19°♐44'29	20.69130 AU
morning rise	-8062 Feb 23 j 20:51	20°♐41'13	
retrograde	-8062 May 29 j 07:01	23°♐51'09	
opposition	-8062 Aug 13 j 09:35	21°♐50'29	-1°00'11
min. Earth dist.	-8062 Aug 13 j 07:42	21°♐50'41	18.66415 AU
direct	-8062 Oct 26 j 21:03	19°♐51'29	
evening set	-8061 Jan 26 j 01:56	22°♐55'41	
conjunction	-8061 Feb 11 j 17:36	23°♐52'48	-0°55'12
minimum elong	-8061 Feb 11 j 17:36	23°♐52'48	0°55'43
max. Earth dist.	-8061 Feb 11 j 19:04	23°♐53'00	20.63607 AU
morning rise	-8061 Feb 28 j 11:34	24°♐50'16	
retrograde	-8061 Jun 02 j 20:58	28°♐00'41	
opposition	-8061 Aug 17 j 17:05	25°♐59'58	-1°02'06
min. Earth dist.	-8061 Aug 17 j 16:30	26°♐00'02	18.60742 AU
direct	-8061 Oct 31 j 06:43	24°♐00'39	
evening set	-8060 Jan 30 j 16:20	27°♐05'56	
conjunction	-8060 Feb 16 j 08:39	28°♐03'20	-0°56'47
minimum elong	-8060 Feb 16 j 08:39	28°♐03'20	0°57'19
max. Earth dist.	-8060 Feb 16 j 07:03	28°♐03'06	20.57775 AU
morning rise	-8060 Mar 04 j 03:04	29°♐01'03	
	-8060 Mar 22 j 06:37	0°♑	
retrograde	-8060 Jun 06 j 08:22	2°♑11'56	
opposition	-8060 Aug 21 j 01:27	0°♑11'10	-1°03'43
min. Earth dist.	-8060 Aug 21 j 04:06	0°♑10'54	18.54762 AU
	-8060 Aug 25 j 11:42	30°℞♐	
direct	-8060 Nov 03 j 14:20	28°♐11'30	
	-8059 Jan 09 j 20:56	0°♑	
evening set	-8059 Feb 03 j 07:20	1°♑17'54	
conjunction	-8059 Feb 20 j 00:24	2°♑15'35	-0°58'04
minimum elong	-8059 Feb 20 j 00:24	2°♑15'35	0°58'36
max. Earth dist.	-8059 Feb 19 j 20:20	2°♑14'59	20.51644 AU
morning rise	-8059 Mar 08 j 19:12	3°♑13'32	
retrograde	-8059 Jun 10 j 22:58	6°♑24'55	
opposition	-8059 Aug 25 j 10:13	4°♑24'04	-1°05'00
min. Earth dist.	-8059 Aug 25 j 14:13	4°♑23'39	18.48472 AU
direct	-8059 Nov 08 j 01:30	2°♑24'00	
evening set	-8058 Feb 07 j 23:29	5°♑31'34	
conjunction	-8058 Feb 24 j 17:09	6°♑29'32	-0°59'03
minimum elong	-8058 Feb 24 j 17:09	6°♑29'32	0°59'35
max. Earth dist.	-8058 Feb 24 j 10:06	6°♑28'30	20.45196 AU
morning rise	-8058 Mar 13 j 12:16	7°♑27'43	
retrograde	-8058 Jun 15 j 11:22	10°♑39'36	
opposition	-8058 Aug 29 j 19:36	8°♑38'38	-1°05'55
min. Earth dist.	-8058 Aug 30 j 02:52	8°♑37'52	18.41888 AU
direct	-8058 Nov 12 j 11:16	6°♑38'07	
evening set	-8057 Feb 12 j 16:29	9°♑46'54	
conjunction	-8057 Mar 01 j 10:46	10°♑45'08	-0°59'42
minimum elong	-8057 Mar 01 j 10:46	10°♑45'08	1°00'15
max. Earth dist.	-8057 Mar 01 j 00:56	10°♑43'42	20.38494 AU
morning rise	-8057 Mar 18 j 06:10	11°♑43'34	
retrograde	-8057 Jun 20 j 02:33	14°♑55'56	
opposition	-8057 Sep 03 j 05:30	12°♑54'50	-1°06'30
min. Earth dist.	-8057 Sep 03 j 14:06	12°♑53'56	18.35071 AU
direct	-8057 Nov 16 j 23:43	10°♑53'52	
evening set	-8056 Feb 17 j 10:15	14°♑03'52	
conjunction	-8056 Mar 05 j 05:01	15°♑02'24	-1°00'02
minimum elong	-8056 Mar 05 j 05:01	15°♑02'24	1°00'34
max. Earth dist.	-8056 Mar 04 j 16:41	15°♑00'35	20.31574 AU
morning rise	-8056 Mar 22 j 00:30	16°♑01'04	
retrograde	-8056 Jun 23 j 16:13	19°♑13'56	
opposition	-8056 Sep 06 j 16:07	17°♑12'41	-1°06'42
min. Earth dist.	-8056 Sep 07 j 03:37	17°♑11'28	18.28085 AU
direct	-8056 Nov 20 j 11:28	15°♑11'15	
evening set	-8055 Feb 21 j 04:50	18°♑22'29	
max. Earth dist.	-8055 Mar 09 j 09:02	19°♑19'06	20.24547 AU
conjunction	-8055 Mar 10 j 00:00	19°♑21'18	-1°00'02
minimum elong	-8055 Mar 10 j 00:01	19°♑21'18	1°00'34
morning rise	-8055 Mar 26 j 19:40	20°♑20'12	
retrograde	-8055 Jun 28 j 08:06	23°♑33'35	
opposition	-8055 Sep 11 j 03:08	21°♑32'12	-1°06'32
min. Earth dist.	-8055 Sep 11 j 15:48	21°♑30'50	18.21030 AU
direct	-8055 Nov 25 j 01:12	19°♑30'16	
evening set	-8054 Feb 26 j 00:13	22°♑42'48	
conjunction	-8054 Mar 14 j 19:50	23°♑41'54	-0°59'41
minimum elong	-8054 Mar 14 j 19:50	23°♑41'54	1°00'12
max. Earth dist.	-8054 Mar 14 j 02:55	23°♑39'24	20.17469 AU
morning rise	-8054 Mar 31 j 15:25	24°♑41'02	
retrograde	-8054 Jul 02 j 23:16	27°♑54'56	
opposition	-8054 Sep 15 j 15:03	25°♑53'25	-1°05'59
min. Earth dist.	-8054 Sep 16 j 06:18	25°♑51'46	18.13963 AU
direct	-8054 Nov 29 j 14:22	23°♑51'01	
evening set	-8053 Mar 02 j 20:33	27°♑04'52	
conjunction	-8053 Mar 19 j 16:20	28°♑04'14	-0°59'00
minimum elong	-8053 Mar 19 j 16:21	28°♑04'14	0°59'30
max. Earth dist.	-8053 Mar 18 j 20:46	28°♑01'20	20.10432 AU
morning rise	-8053 Apr 05 j 11:57	29°♑03'37	
	-8053 Apr 22 j 08:16	0°♒	
retrograde	-8053 Jul 07 j 16:24	2°♒18'03	
opposition	-8053 Sep 20 j 03:29	0°♒16'24	-1°05'03
min. Earth dist.	-8053 Sep 20 j 19:44	0°♒14'39	18.06973 AU
	-8053 Sep 26 j 12:23	30°℞♑	
direct	-8053 Dec 04 j 05:48	28°♑13'34	
	-8052 Feb 08 j 09:20	0°♒	
evening set	-8052 Mar 06 j 17:37	1°♒28'45	
conjunction	-8052 Mar 23 j 13:40	2°♒28'24	-0°57'58
minimum elong	-8052 Mar 23 j 13:41	2°♒28'24	0°58'27
max. Earth dist.	-8052 Mar 22 j 16:49	2°♒25'18	20.03491 AU
morning rise	-8052 Apr 09 j 08:57	3°♒28'00	
retrograde	-8052 Jul 11 j 08:57	6°♒42'59	
opposition	-8052 Sep 23 j 16:56	4°♒41'16	-1°03'44
min. Earth dist.	-8052 Sep 24 j 11:18	4°♒39'17	18.00114 AU
direct	-8052 Dec 07 j 20:17	2°♒38'01	

Attention, astronomical year style is used: The year -8051 in astronomical counting style is the year 8052 BCE in historical counting style.

evening set	-8051 Mar 11 j 15:24	5°♒54'33	
conjunction	-8051 Mar 28 j 11:28	6°♒54'28	-0°56'35
minimum elong	-8051 Mar 28 j 11:28	6°♒54'28	0°57'02
max. Earth dist.	-8051 Mar 27 j 12:03	6°♒50'58	19.96727 AU
morning rise	-8051 Apr 14 j 06:40	7°♒54'17	
retrograde	-8051 Jul 16 j 03:37	11°♒09'51	
opposition	-8051 Sep 28 j 07:01	9°♒08'04	-1°02'01
min. Earth dist.	-8051 Sep 29 j 02:18	9°♒05'59	17.93451 AU
direct	-8051 Dec 12 j 13:15	7°♒04'27	
evening set	-8050 Mar 16 j 14:08	10°♒22'20	
max. Earth dist.	-8050 Apr 01 j 10:09	11°♒18'54	19.90160 AU
conjunction	-8050 Apr 02 j 10:21	11°♒22'32	-0°54'51
minimum elong	-8050 Apr 02 j 10:22	11°♒22'32	0°55'18
morning rise	-8050 Apr 19 j 05:03	12°♒22'33	
	-8050 Jun 12 j 16:35	15°♒	
retrograde	-8050 Jul 20 j 21:58	15°♒38'41	
	-8050 Aug 28 j 16:10	15°℞♒	
opposition	-8050 Oct 02 j 21:59	13°♒36'54	-0°59'56
min. Earth dist.	-8050 Oct 03 j 19:10	13°♒34'36	17.86995 AU
direct	-8050 Dec 17 j 05:35	11°♒32'57	
evening set	-8049 Mar 21 j 13:55	14°♒52'13	
	-8049 Mar 23 j 18:43	15°♒	
max. Earth dist.	-8049 Apr 06 j 07:01	15°♒48'36	19.83828 AU
conjunction	-8049 Apr 07 j 09:53	15°♒52'39	-0°52'46
minimum elong	-8049 Apr 07 j 09:53	15°♒52'39	0°53'11
morning rise	-8049 Apr 24 j 04:19	16°♒52'53	
retrograde	-8049 Jul 25 j 18:05	20°♒09'36	
opposition	-8049 Oct 07 j 13:51	18°♒07'49	-0°57'27
min. Earth dist.	-8049 Oct 08 j 12:07	18°♒05'24	17.80783 AU
direct	-8049 Dec 21 j 23:48	16°♒03'34	
evening set	-8048 Mar 25 j 14:12	19°♒24'12	
max. Earth dist.	-8048 Apr 10 j 06:52	20°♒20'45	19.77718 AU
conjunction	-8048 Apr 11 j 10:07	20°♒24'52	-0°50'21
minimum elong	-8048 Apr 11 j 10:08	20°♒24'52	0°50'45
morning rise	-8048 Apr 28 j 03:50	21°♒25'17	
retrograde	-8048 Jul 29 j 14:36	24°♒42'35	
opposition	-8048 Oct 11 j 06:42	22°♒40'49	-0°54'35
min. Earth dist.	-8048 Oct 12 j 06:32	22°♒38'14	17.74784 AU
direct	-8048 Dec 25 j 18:16	20°♒36'17	
evening set	-8047 Mar 30 j 15:34	23°♒58'15	
max. Earth dist.	-8047 Apr 15 j 05:05	24°♒54'35	19.71832 AU
conjunction	-8047 Apr 16 j 11:01	24°♒59'08	-0°47'35
minimum elong	-8047 Apr 16 j 11:02	24°♒59'08	0°47'57
morning rise	-8047 May 03 j 04:18	25°♒59'45	
retrograde	-8047 Aug 03 j 11:35	29°♒17'36	
opposition	-8047 Oct 16 j 00:18	27°♒15'50	-0°51'20
min. Earth dist.	-8047 Oct 17 j 01:27	27°♒13'06	17.69013 AU
direct	-8047 Dec 30 j 13:37	25°♒11'00	
evening set	-8046 Apr 04 j 17:32	28°♒34'16	
max. Earth dist.	-8046 Apr 20 j 06:30	29°♒30'44	19.66154 AU
conjunction	-8046 Apr 21 j 12:47	29°♒35'22	-0°44'29
minimum elong	-8046 Apr 21 j 12:47	29°♒35'22	0°44'49
	-8046 Apr 28 j 05:59	0°♓	
morning rise	-8046 May 08 j 05:12	0°♓36'07	
retrograde	-8046 Aug 08 j 09:53	3°♓54'29	
opposition	-8046 Oct 20 j 18:59	1°♓52'44	-0°47'44
min. Earth dist.	-8046 Oct 21 j 21:20	1°♓49'52	17.63434 AU
	-8046 Dec 13 j 17:33	30°℞♒	
direct	-8045 Jan 04 j 10:47	29°♒47'38	
	-8045 Jan 26 j 01:58	0°♓	
evening set	-8045 Apr 09 j 20:17	3°♓12'06	
max. Earth dist.	-8045 Apr 25 j 06:05	4°♓08'21	19.60682 AU
conjunction	-8045 Apr 26 j 14:51	4°♓13'22	-0°41'05
minimum elong	-8045 Apr 26 j 14:52	4°♓13'22	0°41'23
morning rise	-8045 May 13 j 06:36	5°♓14'16	
retrograde	-8045 Aug 13 j 06:48	8°♓33'08	
opposition	-8045 Oct 25 j 14:31	6°♓31'20	-0°43'48
min. Earth dist.	-8045 Oct 26 j 18:12	6°♓28'19	17.58088 AU
direct	-8044 Jan 09 j 07:56	4°♓25'57	
evening set	-8044 Apr 13 j 23:23	7°♓51'33	
max. Earth dist.	-8044 Apr 29 j 08:45	8°♓47'56	19.55458 AU
conjunction	-8044 Apr 30 j 17:31	8°♓52'59	-0°37'24
minimum elong	-8044 Apr 30 j 17:31	8°♓52'59	0°37'39
morning rise	-8044 May 17 j 08:17	9°♓53'59	
retrograde	-8044 Aug 17 j 05:51	13°♓13'18	
opposition	-8044 Oct 29 j 10:50	11°♓11'28	-0°39'33
min. Earth dist.	-8044 Oct 30 j 15:03	11°♓08'23	17.52999 AU
direct	-8043 Jan 13 j 07:44	9°♓05'48	
evening set	-8043 Apr 19 j 02:57	12°♓32'27	
max. Earth dist.	-8043 May 04 j 09:44	13°♓28'40	19.50522 AU
conjunction	-8043 May 05 j 20:18	13°♓34'01	-0°33'27
minimum elong	-8043 May 05 j 20:18	13°♓34'01	0°33'40
morning rise	-8043 May 22 j 10:14	14°♓35'06	
retrograde	-8043 Aug 22 j 02:43	17°♓54'50	
opposition	-8043 Nov 03 j 07:57	15°♓52'56	-0°35'01
min. Earth dist.	-8043 Nov 04 j 13:26	15°♓49'43	17.48235 AU
direct	-8042 Jan 18 j 07:04	13°♓46'59	
evening set	-8042 Apr 24 j 06:50	17°♓14'37	
conjunction	-8042 May 10 j 23:31	18°♓16'17	-0°29'15
minimum elong	-8042 May 10 j 23:31	18°♓16'17	0°29'25
max. Earth dist.	-8042 May 09 j 13:14	18°♓10'57	19.45939 AU
morning rise	-8042 May 27 j 12:24	19°♓17'26	
retrograde	-8042 Aug 27 j 02:04	22°♓37'31	
opposition	-8042 Nov 08 j 05:42	20°♓35'33	-0°30'14
min. Earth dist.	-8042 Nov 09 j 11:00	20°♓32'21	17.43841 AU
direct	-8041 Jan 23 j 09:21	18°♓29'22	
evening set	-8041 Apr 29 j 11:05	21°♓57'51	
max. Earth dist.	-8041 May 14 j 15:42	22°♓54'08	19.41761 AU
conjunction	-8041 May 16 j 02:48	22°♓59'36	-0°24'51
minimum elong	-8041 May 16 j 02:49	22°♓59'36	0°24'58
morning rise	-8041 Jun 01 j 14:37	24°♓00'48	
retrograde	-8041 Aug 31 j 23:26	27°♓21'13	
opposition	-8041 Nov 13 j 04:22	25°♓19'11	-0°25'14
min. Earth dist.	-8041 Nov 14 j 10:36	25°♓15'53	17.39906 AU
direct	-8040 Jan 28 j 10:04	23°♓12'45	
evening set	-8040 May 03 j 15:09	26°♓42'00	
max. Earth dist.	-8040 May 18 j 19:29	27°♓38'25	19.38077 AU
conjunction	-8040 May 20 j 05:58	27°♓43'48	-0°20'17
minimum elong	-8040 May 20 j 05:58	27°♓43'48	0°20'22
morning rise	-8040 Jun 05 j 16:42	28°♓45'01	
	-8040 Jun 27 j 05:50	0°♈	
retrograde	-8040 Sep 04 j 23:37	2°♈05'44	
opposition	-8040 Nov 17 j 03:34	0°♈03'39	-0°20'02
min. Earth dist.	-8040 Nov 18 j 08:47	0°♈00'27	17.36478 AU
	-8040 Nov 18 j 12:57	30°℞♓	
direct	-8039 Feb 01 j 13:45	27°♓57'02	
	-8039 Apr 13 j 13:28	0°♈	
evening set	-8039 May 08 j 19:31	1°♈26'57	
max. Earth dist.	-8039 May 23 j 23:08	2°♈23'25	19.34924 AU
conjunction	-8039 May 25 j 09:18	2°♈28'46	-0°15'34
minimum elong	-8039 May 25 j 09:18	2°♈28'46	0°15'35

Attention, astronomical year style is used: The year -8039 in astronomical counting style is the year 8040 BCE in historical counting style.

behind sun begin	-8039 May 25 j 07:57	2°♈28'34	
behind sun end	-8039 May 25 j 10:38	2°♈28'59	
morning rise	-8039 Jun 10 j 18:47	3°♈30'00	
retrograde	-8039 Sep 09 j 21:55	6°♈50'58	
opposition	-8039 Nov 22 j 03:24	4°♈48'51	-0°14'42
min. Earth dist.	-8039 Nov 23 j 09:13	4°♈45'35	17.33625 AU
direct	-8038 Feb 06 j 15:06	2°♈42'05	
evening set	-8038 May 13 j 23:56	6°♈12'36	
max. Earth dist.	-8038 May 29 j 03:00	7°♈09'08	19.32379 AU
conjunction	-8038 May 30 j 12:33	7°♈14'25	-0°10'43
minimum elong	-8038 May 30 j 12:33	7°♈14'25	0°10'44
behind sun begin	-8038 May 30 j 07:25	7°♈13'37	
behind sun end	-8038 May 30 j 17:41	7°♈15'12	
morning rise	-8038 Jun 15 j 20:54	8°♈15'37	
retrograde	-8038 Sep 14 j 22:59	11°♈36'48	
opposition	-8038 Nov 27 j 03:53	9°♈34'42	-0°09'14
min. Earth dist.	-8038 Nov 28 j 08:04	9°♈31'38	17.31385 AU
direct	-8037 Feb 11 j 19:15	7°♈27'52	
evening set	-8037 May 19 j 04:10	10°♈58'51	
max. Earth dist.	-8037 Jun 03 j 07:32	11°♈55'35	19.30455 AU
conjunction	-8037 Jun 04 j 15:40	12°♈00'39	-0°05'49
minimum elong	-8037 Jun 04 j 15:41	12°♈00'39	0°05'47
behind sun begin	-8037 Jun 04 j 09:15	11°♈59'39	
behind sun end	-8037 Jun 04 j 22:06	12°♈01'38	
morning rise	-8037 Jun 20 j 22:38	13°♈01'48	
retrograde	-8037 Sep 19 j 22:14	16°♈23'12	
opposition	-8037 Dec 02 j 05:08	14°♈21'08	-0°03'42
min. Earth dist.	-8037 Dec 03 j 09:27	14°♈18'03	17.29788 AU
direct	-8036 Feb 16 j 21:04	12°♈14'19	
evening set	-8036 May 23 j 08:25	15°♈45'41	
max. Earth dist.	-8036 Jun 07 j 11:03	16°♈42'26	19.29191 AU
conjunction	-8036 Jun 08 j 18:34	16°♈47'24	-0°00'48
minimum elong	-8036 Jun 08 j 18:35	16°♈47'24	0°00'42
behind sun begin	-8036 Jun 08 j 11:54	16°♈46'23	
behind sun end	-8036 Jun 09 j 01:16	16°♈48'26	
morning rise	-8036 Jun 25 j 00:25	17°♈48'30	
asc. node	-8036 Aug 06 j 11:13	20°♈05'27	
retrograde	-8036 Sep 23 j 23:57	21°♈10'05	
opposition	-8036 Dec 06 j 06:36	19°♈08'05	0°01'52
min. Earth dist.	-8036 Dec 07 j 08:59	19°♈05'13	17.28835 AU
direct	-8035 Feb 21 j 01:37	17°♈01'20	
evening set	-8035 May 28 j 12:23	20°♈32'58	
conjunction	-8035 Jun 13 j 21:25	21°♈34'37	0°04'18
minimum elong	-8035 Jun 13 j 21:26	21°♈34'37	0°04'26
behind sun begin	-8035 Jun 13 j 14:52	21°♈33'36	
behind sun end	-8035 Jun 14 j 04:00	21°♈35'38	
max. Earth dist.	-8035 Jun 12 j 16:01	21°♈29'58	19.28547 AU
morning rise	-8035 Jun 30 j 01:50	22°♈35'38	
retrograde	-8035 Sep 28 j 23:41	25°♈57'20	
opposition	-8035 Dec 11 j 08:53	23°♈55'27	0°07'27
min. Earth dist.	-8035 Dec 12 j 11:11	23°♈52'36	17.28488 AU
direct	-8034 Feb 26 j 04:09	21°♈48'49	
evening set	-8034 Jun 02 j 16:20	25°♈20'36	
conjunction	-8034 Jun 18 j 23:52	26°♈22'08	0°09'15
minimum elong	-8034 Jun 18 j 23:52	26°♈22'08	0°09'27
behind sun begin	-8034 Jun 18 j 18:18	26°♈21'16	
behind sun end	-8034 Jun 19 j 05:27	26°♈23'00	
max. Earth dist.	-8034 Jun 17 j 18:55	26°♈17'33	19.28496 AU
morning rise	-8034 Jul 05 j 03:07	27°♈23'02	
	-8034 Aug 24 j 22:09	0°♉	
retrograde	-8034 Oct 04 j 01:31	0°♉44'51	
	-8034 Nov 14 j 09:30	30°℞♈	
opposition	-8034 Dec 16 j 11:28	28°♈43'04	0°12'59
min. Earth dist.	-8034 Dec 17 j 11:45	28°♈40'27	17.28714 AU
direct	-8033 Mar 03 j 09:22	26°♈36'34	
	-8033 Jun 05 j 13:22	0°♉	
evening set	-8033 Jun 07 j 19:50	0°♉08'23	
max. Earth dist.	-8033 Jun 22 j 23:50	1°♉05'36	19.28991 AU
conjunction	-8033 Jun 24 j 02:12	1°♉09'47	0°14'10
minimum elong	-8033 Jun 24 j 02:11	1°♉09'47	0°14'23
behind sun begin	-8033 Jun 23 j 23:08	1°♉09'19	
behind sun end	-8033 Jun 24 j 05:15	1°♉10'15	
morning rise	-8033 Jul 10 j 03:57	2°♉10'33	
retrograde	-8033 Oct 09 j 01:32	5°♉32'24	
opposition	-8033 Dec 21 j 14:40	3°♉30'44	0°18'26
min. Earth dist.	-8033 Dec 22 j 14:23	3°♉28'11	17.29467 AU
direct	-8032 Mar 07 j 12:57	1°♉24'25	
evening set	-8032 Jun 11 j 22:59	4°♉56'06	
max. Earth dist.	-8032 Jun 27 j 01:59	5°♉53'14	19.30001 AU
conjunction	-8032 Jun 28 j 03:49	5°♉57'20	0°18'58
minimum elong	-8032 Jun 28 j 03:48	5°♉57'20	0°19'14
morning rise	-8032 Jul 14 j 04:28	6°♉57'56	
retrograde	-8032 Oct 13 j 02:47	10°♉19'48	
opposition	-8032 Dec 25 j 17:56	8°♉18'13	0°23'44
min. Earth dist.	-8032 Dec 26 j 15:43	8°♉15'52	17.30721 AU
direct	-8031 Mar 12 j 18:47	6°♉12'04	
evening set	-8031 Jun 17 j 01:37	9°♉43'31	
max. Earth dist.	-8031 Jul 02 j 06:12	10°♉40'54	19.31487 AU
conjunction	-8031 Jul 03 j 05:14	10°♉44'33	0°23'39
minimum elong	-8031 Jul 03 j 05:14	10°♉44'33	0°23'57
morning rise	-8031 Jul 19 j 04:27	11°♉44'59	
	-8031 Oct 02 j 15:20	15°♉	
retrograde	-8031 Oct 18 j 02:08	15°♉06'45	
	-8031 Nov 02 j 17:05	15°℞♉	
opposition	-8031 Dec 30 j 21:25	13°♉05'15	0°28'52
min. Earth dist.	-8031 Dec 31 j 18:05	13°♉03'02	17.32429 AU
direct	-8030 Mar 17 j 23:42	10°♉59'19	
evening set	-8030 Jun 22 j 03:51	14°♉30'22	
	-8030 Jun 30 j 01:17	15°♉	
max. Earth dist.	-8030 Jul 07 j 07:40	15°♉27'40	19.33431 AU
conjunction	-8030 Jul 08 j 05:56	15°♉31'11	0°28'09
minimum elong	-8030 Jul 08 j 05:56	15°♉31'11	0°28'28
morning rise	-8030 Jul 24 j 04:03	16°♉31'25	
retrograde	-8030 Oct 23 j 02:19	19°♉53'05	
opposition	-8029 Jan 05 j 01:03	17°♉51'37	0°33'47
min. Earth dist.	-8029 Jan 05 j 19:49	17°♉49'37	17.34606 AU
direct	-8029 Mar 23 j 05:23	15°♉45'52	
evening set	-8029 Jun 27 j 05:03	19°♉16'24	
max. Earth dist.	-8029 Jul 12 j 10:47	20°♉13'58	19.35838 AU
conjunction	-8029 Jul 13 j 05:56	20°♉17'00	0°32'26
minimum elong	-8029 Jul 13 j 05:56	20°♉17'00	0°32'49
morning rise	-8029 Jul 29 j 02:46	21°♉17'02	
retrograde	-8029 Oct 28 j 01:09	24°♉38'29	
opposition	-8028 Jan 10 j 04:40	22°♉37'05	0°38'27
min. Earth dist.	-8028 Jan 10 j 21:30	22°♉35'17	17.37231 AU
direct	-8028 Mar 27 j 10:55	20°♉31'33	
evening set	-8028 Jul 01 j 05:41	24°♉01'26	
max. Earth dist.	-8028 Jul 16 j 11:22	24°♉58'57	19.38702 AU
conjunction	-8028 Jul 17 j 05:10	25°♉01'46	0°36'30
minimum elong	-8028 Jul 17 j 05:10	25°♉01'46	0°36'53
morning rise	-8028 Aug 02 j 01:00	26°♉01'35	
retrograde	-8028 Oct 31 j 23:52	29°♉22'47	
opposition	-8027 Jan 14 j 07:56	27°♉21'24	0°42'50

Attention, astronomical year style is used: The year -8027 in astronomical counting style is the year 8028 BCE in historical counting style.

min. Earth dist.	-8027 Jan 14 j 22:59	27°♉19'48	17.40339 AU
direct	-8027 Apr 01 j 14:47	25°♉16'04	
evening set	-8027 Jul 06 j 05:21	28°♉45'12	
conjunction	-8027 Jul 22 j 03:41	29°♉45'17	0°40'17
minimum elong	-8027 Jul 22 j 03:40	29°♉45'17	0°40'43
max. Earth dist.	-8027 Jul 21 j 13:00	29°♉42'58	19.42051 AU
	-8027 Jul 26 j 00:30	0°♊	
morning rise	-8027 Aug 06 j 22:23	0°♊44'51	
retrograde	-8027 Nov 05 j 22:46	4°♊05'45	
opposition	-8026 Jan 19 j 11:07	2°♊04'24	0°46'53
min. Earth dist.	-8026 Jan 19 j 23:29	2°♊03'05	17.43919 AU
	-8026 Apr 01 j 14:43	30°℞♉	
direct	-8026 Apr 06 j 19:39	29°♉59'18	
	-8026 Apr 11 j 22:54	0°♊	
evening set	-8026 Jul 11 j 04:08	3°♊27'34	
conjunction	-8026 Jul 27 j 01:08	4°♊27'22	0°43'46
minimum elong	-8026 Jul 27 j 01:08	4°♊27'22	0°44'14
max. Earth dist.	-8026 Jul 26 j 12:36	4°♊25'23	19.45882 AU
morning rise	-8026 Aug 11 j 18:53	5°♊26'42	
retrograde	-8026 Nov 10 j 20:23	8°♊47'15	
opposition	-8025 Jan 24 j 14:09	6°♊45'56	0°50'37
min. Earth dist.	-8025 Jan 25 j 00:35	6°♊44'50	17.48014 AU
direct	-8025 Apr 11 j 21:17	4°♊41'06	
evening set	-8025 Jul 16 j 01:59	8°♊08'25	
conjunction	-8025 Jul 31 j 21:52	9°♊07'56	0°46'58
minimum elong	-8025 Jul 31 j 21:52	9°♊07'56	0°47'26
max. Earth dist.	-8025 Jul 31 j 12:29	9°♊06'27	19.50239 AU
morning rise	-8025 Aug 16 j 14:40	10°♊07'00	
retrograde	-8025 Nov 15 j 19:35	13°♊27'11	
opposition	-8024 Jan 29 j 16:38	11°♊25'55	0°53'59
min. Earth dist.	-8024 Jan 29 j 23:41	11°♊25'11	17.52621 AU
direct	-8024 Apr 16 j 01:10	9°♊21'24	
evening set	-8024 Jul 19 j 22:54	12°♊47'42	
conjunction	-8024 Aug 04 j 17:41	13°♊46'55	0°49'50
minimum elong	-8024 Aug 04 j 17:40	13°♊46'55	0°50'20
max. Earth dist.	-8024 Aug 04 j 10:57	13°♊45'51	19.55099 AU
morning rise	-8024 Aug 20 j 09:39	14°♊45'44	
retrograde	-8024 Nov 19 j 15:58	18°♊05'30	
opposition	-8023 Feb 02 j 18:50	16°♊04'20	0°56'59
min. Earth dist.	-8023 Feb 03 j 00:04	16°♊03'47	17.57734 AU
direct	-8023 Apr 21 j 01:12	14°♊00'10	
evening set	-8023 Jul 24 j 18:55	17°♊25'23	
conjunction	-8023 Aug 09 j 12:40	18°♊24'18	0°52'22
minimum elong	-8023 Aug 09 j 12:39	18°♊24'18	0°52'52
max. Earth dist.	-8023 Aug 09 j 08:42	18°♊23'41	19.60453 AU
morning rise	-8023 Aug 25 j 03:54	19°♊22'51	
retrograde	-8023 Nov 24 j 14:34	22°♊42'12	
opposition	-8022 Feb 07 j 20:25	20°♊41'09	0°59'36
min. Earth dist.	-8022 Feb 07 j 22:01	20°♊40'59	17.63301 AU
direct	-8022 Apr 26 j 04:08	18°♊37'24	
evening set	-8022 Jul 29 j 14:04	22°♊01'28	
conjunction	-8022 Aug 14 j 06:53	23°♊00'05	0°54'33
minimum elong	-8022 Aug 14 j 06:53	23°♊00'05	0°55'04
max. Earth dist.	-8022 Aug 14 j 05:56	22°♊59'56	19.66230 AU
morning rise	-8022 Aug 29 j 21:25	23°♊58'22	
retrograde	-8022 Nov 29 j 09:58	27°♊17'17	
opposition	-8021 Feb 12 j 21:48	25°♊16'22	1°01'49
min. Earth dist.	-8021 Feb 12 j 21:46	25°♊16'22	17.69275 AU
direct	-8021 May 01 j 03:10	23°♊13'03	
evening set	-8021 Aug 03 j 08:12	26°♊35'56	

conjunction	-8021 Aug 19 j 00:07	27°♊34'14	0°56'22
minimum elong	-8021 Aug 19 j 00:07	27°♊34'14	0°56'54
max. Earth dist.	-8021 Aug 19 j 01:31	27°♊34'27	19.72381 AU
morning rise	-8021 Sep 03 j 14:11	28°♊32'16	
	-8021 Sep 29 j 05:49	0°♋	
retrograde	-8021 Dec 04 j 07:13	1°♋50'43	
	-8020 Feb 13 j 21:24	30°℞♊	
opposition	-8020 Feb 17 j 22:27	29°♊49'55	1°03'38
min. Earth dist.	-8020 Feb 17 j 18:51	29°♊50'18	17.75570 AU
direct	-8020 May 05 j 05:05	27°♊47'04	
	-8020 Jul 18 j 07:16	0°♋	
evening set	-8020 Aug 07 j 01:33	1°♋08'43	
conjunction	-8020 Aug 22 j 16:46	2°♋06'43	0°57'50
minimum elong	-8020 Aug 22 j 16:46	2°♋06'43	0°58'22
max. Earth dist.	-8020 Aug 22 j 21:14	2°♋07'25	19.78798 AU
morning rise	-8020 Sep 07 j 06:16	3°♋04'29	
retrograde	-8020 Dec 08 j 01:14	6°♋22'26	
opposition	-8019 Feb 21 j 22:32	4°♋21'47	1°05'02
min. Earth dist.	-8019 Feb 21 j 17:41	4°♋22'17	17.82101 AU
direct	-8019 May 10 j 03:05	2°♋19'22	
evening set	-8019 Aug 11 j 18:05	5°♋39'46	
conjunction	-8019 Aug 27 j 08:31	6°♋37'27	0°58'55
minimum elong	-8019 Aug 27 j 08:31	6°♋37'27	0°59'28
max. Earth dist.	-8019 Aug 27 j 14:44	6°♋38'25	19.85422 AU
morning rise	-8019 Sep 11 j 21:44	7°♋34'57	
retrograde	-8019 Dec 12 j 21:06	10°♋52'24	
opposition	-8018 Feb 26 j 22:02	8°♋51'53	1°06'01
min. Earth dist.	-8018 Feb 26 j 13:51	8°♋52'43	17.88794 AU
direct	-8018 May 15 j 02:55	6°♋49'54	
evening set	-8018 Aug 16 j 09:33	10°♋08'59	
conjunction	-8018 Aug 31 j 23:29	11°♋06'22	0°59'39
minimum elong	-8018 Aug 31 j 23:29	11°♋06'22	1°00'10
max. Earth dist.	-8018 Sep 01 j 08:47	11°♋07'49	19.92158 AU
morning rise	-8018 Sep 16 j 12:18	12°♋03'37	
retrograde	-8018 Dec 17 j 14:03	15°♋20'32	
opposition	-8017 Mar 03 j 21:05	13°♋20'08	1°06'35
min. Earth dist.	-8017 Mar 03 j 11:40	13°♋21'06	17.95571 AU
direct	-8017 May 19 j 23:57	11°♋18'34	
evening set	-8017 Aug 21 j 00:21	14°♋36'19	
conjunction	-8017 Sep 05 j 13:41	15°♋33'25	1°00'00
minimum elong	-8017 Sep 05 j 13:41	15°♋33'25	1°00'32
max. Earth dist.	-8017 Sep 06 j 00:16	15°♋35'02	19.98959 AU
morning rise	-8017 Sep 21 j 02:28	16°♋30'25	
retrograde	-8017 Dec 22 j 08:17	19°♋46'46	
opposition	-8016 Mar 07 j 19:04	17°♋46'27	1°06'45
min. Earth dist.	-8016 Mar 07 j 06:41	17°♋47'43	18.02382 AU
direct	-8016 May 23 j 21:16	15°♋45'17	
evening set	-8016 Aug 24 j 14:06	19°♋01'41	
conjunction	-8016 Sep 09 j 03:10	19°♋58'30	0°59'59
minimum elong	-8016 Sep 09 j 03:10	19°♋58'30	1°00'31
max. Earth dist.	-8016 Sep 09 j 16:41	20°♋00'34	20.05754 AU
morning rise	-8016 Sep 24 j 15:45	20°♋55'15	
retrograde	-8016 Dec 26 j 00:05	24°♋11'02	
opposition	-8015 Mar 12 j 16:28	22°♋10'47	1°06'31
min. Earth dist.	-8015 Mar 12 j 02:54	22°♋12'11	18.09164 AU
direct	-8015 May 28 j 16:46	20°♋10'00	
evening set	-8015 Aug 29 j 02:59	23°♋25'02	
conjunction	-8015 Sep 13 j 15:37	24°♋21'34	0°59'38
minimum elong	-8015 Sep 13 j 15:37	24°♋21'34	1°00'08
max. Earth dist.	-8015 Sep 14 j 06:10	24°♋23'47	20.12523 AU
morning rise	-8015 Sep 29 j 04:22	25°♋18'06	

Attention, astronomical year style is used: The year -8014 in astronomical counting style is the year 8015 BCE in historical counting style.

retrograde	-8015 Dec 30 j 16:32	28°♋33'18	
opposition	-8014 Mar 17 j 12:57	26°♋33'05	1°05'54
min. Earth dist.	-8014 Mar 16 j 20:39	26°♋34'44	18.15915 AU
direct	-8014 Jun 02 j 11:53	24°♋32'38	
evening set	-8014 Sep 02 j 14:52	27°♋46'18	
conjunction	-8014 Sep 18 j 03:28	28°♋42'35	0°58'56
minimum elong	-8014 Sep 18 j 03:28	28°♋42'35	0°59'26
max. Earth dist.	-8014 Sep 18 j 21:03	28°♋45'15	20.19250 AU
morning rise	-8014 Oct 03 j 16:10	29°♋38'53	
	-8014 Oct 09 j 16:03	0°♌	
retrograde	-8013 Jan 04 j 06:57	2°♌53'29	
opposition	-8013 Mar 22 j 08:39	0°♌53'18	1°04'55
min. Earth dist.	-8013 Mar 21 j 14:59	0°♌55'06	18.22627 AU
	-8013 Apr 13 j 23:02	30°℞♋	
direct	-8013 Jun 07 j 05:27	28°♋53'11	
	-8013 Jul 28 j 16:58	0°♌	
evening set	-8013 Sep 07 j 01:56	2°♌05'30	
conjunction	-8013 Sep 22 j 14:17	3°♌01'31	0°57'54
minimum elong	-8013 Sep 22 j 14:17	3°♌01'31	0°58'22
max. Earth dist.	-8013 Sep 23 j 08:53	3°♌04'20	20.25952 AU
morning rise	-8013 Oct 08 j 03:23	3°♌57'37	
retrograde	-8012 Jan 08 j 22:04	7°♌11'37	
min. Earth dist.	-8012 Mar 25 j 07:14	5°♌13'30	18.29324 AU
opposition	-8012 Mar 26 j 03:21	5°♌11'28	1°03'34
direct	-8012 Jun 10 j 22:12	3°♌11'41	
evening set	-8012 Sep 10 j 12:06	6°♌22'41	
conjunction	-8012 Sep 26 j 00:34	7°♌18'27	0°56'33
minimum elong	-8012 Sep 26 j 00:34	7°♌18'27	0°57'01
max. Earth dist.	-8012 Sep 26 j 22:13	7°♌21'43	20.32627 AU
morning rise	-8012 Oct 11 j 13:46	8°♌14'21	
retrograde	-8011 Jan 12 j 11:04	11°♌27'46	
opposition	-8011 Mar 30 j 21:05	9°♌27'39	1°01'53
min. Earth dist.	-8011 Mar 29 j 23:27	9°♌29'51	18.35992 AU
direct	-8011 Jun 15 j 13:24	7°♌28'13	
evening set	-8011 Sep 14 j 21:38	10°♌37'57	
conjunction	-8011 Sep 30 j 10:00	11°♌33'29	0°54'55
minimum elong	-8011 Sep 30 j 10:00	11°♌33'29	0°55'21
max. Earth dist.	-8011 Oct 01 j 08:31	11°♌36'52	20.39293 AU
morning rise	-8011 Oct 15 j 23:43	12°♌29'12	
	-8011 Dec 07 j 00:38	15°♌	
retrograde	-8010 Jan 17 j 01:11	15°♌42'04	
	-8010 Feb 28 j 14:28	15°℞♌	
opposition	-8010 Apr 04 j 14:07	13°♌42'00	0°59'53
min. Earth dist.	-8010 Apr 03 j 14:19	13°♌44'25	18.42656 AU
direct	-8010 Jun 20 j 04:00	11°♌42'56	
evening set	-8010 Sep 19 j 06:12	14°♌51'25	
	-8010 Sep 21 j 16:48	15°♌	
conjunction	-8010 Oct 04 j 18:53	15°♌46'45	0°53'00
minimum elong	-8010 Oct 04 j 18:54	15°♌46'45	0°53'25
max. Earth dist.	-8010 Oct 05 j 20:23	15°♌50'34	20.45931 AU
morning rise	-8010 Oct 20 j 08:54	16°♌42'18	
retrograde	-8009 Jan 21 j 13:49	19°♌54'37	
min. Earth dist.	-8009 Apr 08 j 04:59	17°♌57'13	18.49262 AU
opposition	-8009 Apr 09 j 06:19	17°♌54'39	0°57'34
direct	-8009 Jun 24 j 17:26	15°♌55'58	
evening set	-8009 Sep 23 j 14:25	19°♌03'16	
conjunction	-8009 Oct 09 j 03:11	19°♌58'24	0°50'48
minimum elong	-8009 Oct 09 j 03:12	19°♌58'24	0°51'12
max. Earth dist.	-8009 Oct 10 j 05:15	20°♌02'17	20.52500 AU
morning rise	-8009 Oct 24 j 17:55	20°♌53'48	
retrograde	-8008 Jan 26 j 02:47	24°♌05'36	
opposition	-8008 Apr 12 j 21:33	22°♌05'44	0°54'58
min. Earth dist.	-8008 Apr 11 j 18:44	22°♌08'26	18.55784 AU
direct	-8008 Jun 28 j 05:49	20°♌07'25	
evening set	-8008 Sep 26 j 21:52	23°♌13'36	
conjunction	-8008 Oct 12 j 11:08	24°♌08'33	0°48'21
minimum elong	-8008 Oct 12 j 11:09	24°♌08'34	0°48'43
max. Earth dist.	-8008 Oct 13 j 15:45	24°♌12'48	20.58944 AU
morning rise	-8008 Oct 28 j 02:17	25°♌03'48	
retrograde	-8007 Jan 29 j 15:06	28°♌15'07	
min. Earth dist.	-8007 Apr 16 j 08:01	26°♌18'12	18.62134 AU
opposition	-8007 Apr 17 j 12:07	26°♌15'22	0°52'06
direct	-8007 Jul 02 j 18:15	24°♌17'26	
evening set	-8007 Oct 01 j 04:53	27°♌22'32	
conjunction	-8007 Oct 16 j 18:21	28°♌17'19	0°45'40
minimum elong	-8007 Oct 16 j 18:21	28°♌17'19	0°46'01
max. Earth dist.	-8007 Oct 17 j 23:12	28°♌21'35	20.65193 AU
morning rise	-8007 Nov 01 j 10:19	29°♌12'27	
	-8007 Nov 15 j 14:42	0°♍	
retrograde	-8006 Feb 03 j 02:57	2°♍23'19	
min. Earth dist.	-8006 Apr 20 j 21:05	0°♍26'35	18.68271 AU
opposition	-8006 Apr 22 j 02:05	0°♍23'40	0°48'58
	-8006 May 01 j 23:26	30°℞♌	
direct	-8006 Jul 07 j 04:49	28°♌26'05	
	-8006 Sep 07 j 03:27	0°♍	
evening set	-8006 Oct 05 j 11:25	1°♍30'10	
conjunction	-8006 Oct 21 j 01:32	2°♍24'49	0°42'45
minimum elong	-8006 Oct 21 j 01:32	2°♍24'49	0°43'03
max. Earth dist.	-8006 Oct 22 j 08:31	2°♍29'22	20.71184 AU
morning rise	-8006 Nov 05 j 18:02	3°♍19'49	
retrograde	-8005 Feb 07 j 14:42	6°♍30'13	
min. Earth dist.	-8005 Apr 25 j 09:13	4°♍33'41	18.74104 AU
opposition	-8005 Apr 26 j 15:09	4°♍30'41	0°45'36
direct	-8005 Jul 11 j 16:23	2°♍33'26	
evening set	-8005 Oct 09 j 17:46	5°♍36'32	
conjunction	-8005 Oct 25 j 08:15	6°♍31'03	0°39'37
minimum elong	-8005 Oct 25 j 08:15	6°♍31'03	0°39'54
max. Earth dist.	-8005 Oct 26 j 14:53	6°♍35'33	20.76844 AU
morning rise	-8005 Nov 10 j 01:42	7°♍25'58	
retrograde	-8004 Feb 12 j 01:22	10°♍35'57	
min. Earth dist.	-8004 Apr 28 j 21:32	8°♍39'30	18.79581 AU
opposition	-8004 Apr 30 j 03:38	8°♍36'29	0°42'00
direct	-8004 Jul 15 j 01:23	6°♍39'31	
evening set	-8004 Oct 12 j 23:35	9°♍41'42	
conjunction	-8004 Oct 28 j 14:48	10°♍36'06	0°36'18
minimum elong	-8004 Oct 28 j 14:48	10°♍36'06	0°36'32
max. Earth dist.	-8004 Oct 29 j 22:59	10°♍40'48	20.82105 AU
morning rise	-8004 Nov 13 j 08:52	11°♍30'55	
retrograde	-8003 Feb 15 j 11:50	14°♍40'28	
min. Earth dist.	-8003 May 03 j 08:30	12°♍44'09	18.84618 AU
opposition	-8003 May 04 j 15:16	12°♍41'04	0°38'13
direct	-8003 Jul 19 j 12:11	10°♍44'21	
evening set	-8003 Oct 17 j 05:17	13°♍45'40	
conjunction	-8003 Nov 01 j 20:59	14°♍39'58	0°32'49
minimum elong	-8003 Nov 01 j 20:59	14°♍39'58	0°33'01
max. Earth dist.	-8003 Nov 03 j 04:24	14°♍44'32	20.86920 AU
morning rise	-8003 Nov 17 j 16:06	15°♍34'43	
retrograde	-8002 Feb 19 j 21:39	18°♍43'52	
min. Earth dist.	-8002 May 07 j 19:59	16°♍47'31	18.89208 AU
opposition	-8002 May 09 j 02:27	16°♍44'28	0°34'16
direct	-8002 Jul 23 j 19:50	14°♍47'56	
evening set	-8002 Oct 21 j 10:23	17°♍48'26	

Attention, astronomical year style is used: The year -8002 in astronomical counting style is the year 8003 BCE in historical counting style.

conjunction	-8002 Nov 06 j 03:01	18°♑42'39	0°29'11
minimum elong	-8002 Nov 06 j 03:01	18°♑42'39	0°29'21
max. Earth dist.	-8002 Nov 07 j 11:41	18°♑47'23	20.91270 AU
morning rise	-8002 Nov 21 j 22:54	19°♑37'21	
retrograde	-8001 Feb 24 j 06:45	22°♑46'06	
min. Earth dist.	-8001 May 12 j 05:47	20°♑49'48	18.93311 AU
opposition	-8001 May 13 j 12:49	20°♑46'41	0°30'10
direct	-8001 Jul 28 j 05:36	18°♑50'19	
evening set	-8001 Oct 25 j 15:29	21°♑50'02	
conjunction	-8001 Nov 10 j 08:43	22°♑44'11	0°25'26
minimum elong	-8001 Nov 10 j 08:43	22°♑44'11	0°25'33
max. Earth dist.	-8001 Nov 11 j 16:23	22°♑48'46	20.95144 AU
morning rise	-8001 Nov 26 j 05:44	23°♑38'50	
retrograde	-8000 Feb 28 j 15:44	26°♑47'12	
opposition	-8000 May 16 j 22:26	24°♑47'45	0°25'56
min. Earth dist.	-8000 May 15 j 16:05	24°♑50'47	18.96964 AU
direct	-8000 Jul 31 j 12:01	22°♑51'28	
evening set	-8000 Oct 28 j 20:05	25°♑50'30	
conjunction	-8000 Nov 13 j 14:18	26°♑44'36	0°21'34
minimum elong	-8000 Nov 13 j 14:18	26°♑44'37	0°21'40
max. Earth dist.	-8000 Nov 14 j 23:07	26°♑49'20	20.98580 AU
morning rise	-8000 Nov 29 j 12:07	27°♑39'14	
	-7999 Jan 18 j 06:28	0°♎	
retrograde	-7999 Mar 03 j 23:40	0°♎47'15	
	-7999 Apr 18 j 23:36	30°℞♑	
min. Earth dist.	-7999 May 20 j 00:29	28°♑50'50	19.00188 AU
opposition	-7999 May 21 j 07:25	28°♑47'45	0°21'37
direct	-7999 Aug 04 j 20:08	26°♑51'34	
evening set	-7999 Nov 02 j 00:30	29°♑49'58	
	-7999 Nov 04 j 23:45	0°♎	
conjunction	-7999 Nov 17 j 19:24	0°♎44'01	0°17'38
minimum elong	-7999 Nov 17 j 19:24	0°♎44'01	0°17'41
max. Earth dist.	-7999 Nov 19 j 03:18	0°♎48'36	21.01610 AU
morning rise	-7999 Dec 03 j 18:23	1°♎38'38	
retrograde	-7998 Mar 08 j 07:56	4°♎46'21	
min. Earth dist.	-7998 May 24 j 09:48	2°♎49'49	19.03038 AU
opposition	-7998 May 25 j 16:00	2°♎46'48	0°17'12
direct	-7998 Aug 09 j 01:35	0°♎50'41	
evening set	-7998 Nov 06 j 04:48	3°♎48'33	
conjunction	-7998 Nov 22 j 00:46	4°♎42'36	0°13'37
minimum elong	-7998 Nov 22 j 00:46	4°♎42'36	0°13'39
behind sun begin	-7998 Nov 21 j 21:09	4°♎42'06	
behind sun end	-7998 Nov 22 j 04:23	4°♎43'06	
max. Earth dist.	-7998 Nov 23 j 09:44	4°♎47'19	21.04275 AU
morning rise	-7998 Dec 08 j 00:37	5°♎37'12	
retrograde	-7997 Mar 12 j 15:47	8°♎44'40	
opposition	-7997 May 29 j 23:43	6°♎45'04	0°12'43
min. Earth dist.	-7997 May 28 j 17:02	6°♎48'09	19.05519 AU
direct	-7997 Aug 13 j 08:10	4°♎49'02	
evening set	-7997 Nov 10 j 09:12	7°♎46'28	
conjunction	-7997 Nov 26 j 05:56	8°♎40'31	0°09'34
minimum elong	-7997 Nov 26 j 05:56	8°♎40'31	0°09'32
behind sun begin	-7997 Nov 26 j 00:26	8°♎39'45	
behind sun end	-7997 Nov 26 j 11:25	8°♎41'16	
max. Earth dist.	-7997 Nov 27 j 13:41	8°♎45'03	21.06579 AU
morning rise	-7997 Dec 12 j 06:59	9°♎35'09	
retrograde	-7996 Mar 15 j 23:20	12°♎42'24	
min. Earth dist.	-7996 Jun 01 j 01:36	10°♎45'46	19.07649 AU
opposition	-7996 Jun 02 j 07:11	10°♎42'47	0°08'12
direct	-7996 Aug 16 j 12:37	8°♎46'50	
evening set	-7996 Nov 13 j 13:20	11°♎43'54	
conjunction	-7996 Nov 29 j 11:10	12°♎37'58	0°05'29
minimum elong	-7996 Nov 29 j 11:10	12°♎37'58	0°05'26
behind sun begin	-7996 Nov 29 j 04:47	12°♎37'05	
behind sun end	-7996 Nov 29 j 17:32	12°♎38'51	
max. Earth dist.	-7996 Nov 30 j 19:43	12°♎42'37	21.08523 AU
morning rise	-7996 Dec 15 j 13:04	13°♎32'38	
retrograde	-7995 Mar 20 j 07:37	16°♎39'44	
min. Earth dist.	-7995 Jun 05 j 08:13	14°♎43'08	19.09399 AU
opposition	-7995 Jun 06 j 14:07	14°♎40'08	0°03'38
direct	-7995 Aug 20 j 18:27	12°♎44'16	
evening set	-7995 Nov 17 j 17:48	15°♎41'04	
conjunction	-7995 Dec 03 j 16:26	16°♎35'10	0°01'19
minimum elong	-7995 Dec 03 j 16:27	16°♎35'10	0°01'14
behind sun begin	-7995 Dec 03 j 09:50	16°♎34'15	
behind sun end	-7995 Dec 03 j 23:03	16°♎36'05	
max. Earth dist.	-7995 Dec 04 j 23:31	16°♎39'36	21.10088 AU
morning rise	-7995 Dec 19 j 19:35	17°♎29'53	
retrograde	-7994 Mar 24 j 14:41	20°♎36'53	
desc. node	-7994 Mar 29 j 02:51	20°♎36'23	
opposition	-7994 Jun 10 j 20:50	18°♎37'19	-0°00'57
min. Earth dist.	-7994 Jun 09 j 16:25	18°♎40'10	19.10768 AU
direct	-7994 Aug 24 j 22:03	16°♎41'29	
evening set	-7994 Nov 21 j 22:16	19°♎38'07	
conjunction	-7994 Dec 07 j 22:06	20°♎32'17	-0°02'56
minimum elong	-7994 Dec 07 j 22:07	20°♎32'17	0°03'04
behind sun begin	-7994 Dec 07 j 15:31	20°♎31'22	
behind sun end	-7994 Dec 08 j 04:43	20°♎33'12	
max. Earth dist.	-7994 Dec 09 j 05:32	20°♎36'45	21.11247 AU
morning rise	-7994 Dec 24 j 02:10	21°♎27'04	
retrograde	-7993 Mar 28 j 23:24	24°♎33'59	
min. Earth dist.	-7993 Jun 13 j 22:50	22°♎37'18	19.11694 AU
opposition	-7993 Jun 15 j 03:07	22°♎34'27	-0°05'31
direct	-7993 Aug 29 j 03:30	20°♎38'42	
evening set	-7993 Nov 26 j 03:15	23°♎35'14	
conjunction	-7993 Dec 12 j 03:56	24°♎29'29	-0°07'03
minimum elong	-7993 Dec 12 j 03:55	24°♎29'29	0°07'13
behind sun begin	-7993 Dec 11 j 21:49	24°♎28'38	
behind sun end	-7993 Dec 12 j 10:01	24°♎30'19	
max. Earth dist.	-7993 Dec 13 j 09:20	24°♎33'39	21.11940 AU
morning rise	-7993 Dec 28 j 09:11	25°♎24'20	
retrograde	-7992 Apr 01 j 06:15	28°♎31'14	
min. Earth dist.	-7992 Jun 17 j 06:56	26°♎34'23	19.12145 AU
opposition	-7992 Jun 18 j 09:13	26°♎31'44	-0°10'04
direct	-7992 Sep 01 j 06:41	24°♎35'59	
evening set	-7992 Nov 29 j 08:20	27°♎32'31	
conjunction	-7992 Dec 15 j 10:12	28°♎26'51	-0°11'08
minimum elong	-7992 Dec 15 j 10:12	28°♎26'51	0°11'20
behind sun begin	-7992 Dec 15 j 05:21	28°♎26'11	
behind sun end	-7992 Dec 15 j 15:02	28°♎27'31	
max. Earth dist.	-7992 Dec 16 j 15:25	28°♎31'00	21.12136 AU
morning rise	-7992 Dec 31 j 16:19	29°♎21'48	
	-7991 Jan 12 j 11:14	0°♏	
retrograde	-7991 Apr 05 j 15:01	2°♏28'43	
opposition	-7991 Jun 22 j 15:04	0°♏29'14	-0°14'34
min. Earth dist.	-7991 Jun 21 j 13:15	0°♏31'50	19.12064 AU
	-7991 Jul 04 j 19:57	30°℞♎	
direct	-7991 Sep 05 j 11:51	28°♎33'29	
	-7991 Nov 04 j 01:32	0°♏	
evening set	-7991 Dec 03 j 13:51	1°♏30'04	
conjunction	-7991 Dec 19 j 16:36	2°♏24'31	-0°15'10
minimum elong	-7991 Dec 19 j 16:36	2°♏24'31	0°15'24
behind sun begin	-7991 Dec 19 j 14:46	2°♏24'15	

Attention, astronomical year style is used: The year -7991 in astronomical counting style is the year 7992 BCE in historical counting style.

behind sun end	-7991 Dec 19 j 18:26	2°♏24'46	
max. Earth dist.	-7991 Dec 20 j 19:20	2°♏28'18	21.11777 AU
morning rise	-7990 Jan 04 j 23:56	3°♏19'34	
retrograde	-7990 Apr 09 j 22:16	6°♏26'33	
opposition	-7990 Jun 26 j 21:00	4°♏27'02	-0°19'01
min. Earth dist.	-7990 Jun 25 j 21:34	4°♏29'24	19.11419 AU
direct	-7990 Sep 09 j 15:15	2°♏31'12	
evening set	-7990 Dec 07 j 19:45	5°♏27'55	
conjunction	-7990 Dec 23 j 23:44	6°♏22'29	-0°19'09
minimum elong	-7990 Dec 23 j 23:44	6°♏22'29	0°19'25
max. Earth dist.	-7990 Dec 25 j 01:45	6°♏26'10	21.10836 AU
morning rise	-7989 Jan 09 j 07:56	7°♏17'39	
retrograde	-7989 Apr 14 j 07:03	10°♏24'41	
min. Earth dist.	-7989 Jun 30 j 03:50	8°♏27'25	19.10169 AU
opposition	-7989 Jul 01 j 02:29	8°♏25'08	-0°23'22
direct	-7989 Sep 13 j 20:32	6°♏29'10	
evening set	-7989 Dec 12 j 02:09	9°♏26'06	
conjunction	-7989 Dec 28 j 07:02	10°♏20'47	-0°23'02
minimum elong	-7989 Dec 28 j 07:02	10°♏20'47	0°23'19
max. Earth dist.	-7989 Dec 29 j 06:12	10°♏24'04	21.09293 AU
morning rise	-7988 Jan 13 j 16:23	11°♏16'06	
retrograde	-7988 Apr 17 j 14:28	14°♏23'12	
opposition	-7988 Jul 04 j 08:08	12°♏23'33	-0°27'37
min. Earth dist.	-7988 Jul 03 j 12:06	12°♏25'35	19.08336 AU
direct	-7988 Sep 16 j 23:54	10°♏27'25	
evening set	-7988 Dec 15 j 08:36	13°♏24'35	
conjunction	-7988 Dec 31 j 14:42	14°♏19'26	-0°26'48
minimum elong	-7988 Dec 31 j 14:42	14°♏19'26	0°27'08
max. Earth dist.	-7987 Jan 01 j 13:05	14°♏22'36	21.07185 AU
	-7987 Jan 12 j 13:54	15°♏	
morning rise	-7987 Jan 17 j 00:52	15°♏14'52	
retrograde	-7987 Apr 21 j 23:24	18°♏22'05	
opposition	-7987 Jul 08 j 13:31	16°♏22'19	-0°31'43
min. Earth dist.	-7987 Jul 07 j 18:15	16°♏24'17	19.05952 AU
	-7987 Aug 14 j 22:51	15°℞♏	
direct	-7987 Sep 21 j 05:44	14°♏25'58	
	-7987 Oct 27 j 17:19	15°♏	
evening set	-7987 Dec 19 j 15:45	17°♏23'27	
conjunction	-7986 Jan 04 j 22:44	18°♏18'27	-0°30'27
minimum elong	-7986 Jan 04 j 22:43	18°♏18'27	0°30'49
max. Earth dist.	-7986 Jan 05 j 18:22	18°♏21'14	21.04556 AU
morning rise	-7986 Jan 21 j 10:01	19°♏14'03	
retrograde	-7986 Apr 26 j 06:51	22°♏21'23	
opposition	-7986 Jul 12 j 18:54	20°♏21'29	-0°35'41
min. Earth dist.	-7986 Jul 12 j 02:18	20°♏23'11	19.03093 AU
direct	-7986 Sep 25 j 08:51	18°♏24'52	
evening set	-7986 Dec 23 j 23:14	21°♏22'45	
conjunction	-7985 Jan 09 j 07:26	22°♏17'56	-0°33'58
minimum elong	-7985 Jan 09 j 07:26	22°♏17'56	0°34'21
max. Earth dist.	-7985 Jan 10 j 02:13	22°♏20'36	21.01481 AU
morning rise	-7985 Jan 25 j 19:31	23°♏13'41	
retrograde	-7985 Apr 30 j 16:34	26°♏21'11	
min. Earth dist.	-7985 Jul 16 j 08:21	24°♏22'46	18.99805 AU
opposition	-7985 Jul 17 j 00:10	24°♏21'09	-0°39'29
direct	-7985 Sep 29 j 15:05	22°♏24'15	
evening set	-7985 Dec 28 j 07:22	25°♏22'37	
conjunction	-7984 Jan 13 j 16:23	26°♏17'59	-0°37'19
minimum elong	-7984 Jan 13 j 16:22	26°♏17'59	0°37'44
max. Earth dist.	-7984 Jan 14 j 08:23	26°♏20'16	20.97999 AU
morning rise	-7984 Jan 30 j 05:27	27°♏13'55	
	-7984 Apr 04 j 04:26	0°♐	

retrograde	-7984 May 04 j 00:17	0°♐21'37	
	-7984 Jun 03 j 03:45	30°℞♏	
opposition	-7984 Jul 20 j 05:35	28°♏21'27	-0°43'06
min. Earth dist.	-7984 Jul 19 j 16:23	28°♏22'48	18.96152 AU
direct	-7984 Oct 02 j 18:35	26°♏24'16	
evening set	-7984 Dec 31 j 15:51	29°♏23'12	
	-7983 Jan 11 j 13:55	0°♐	
conjunction	-7983 Jan 17 j 02:02	0°♐18'46	-0°40'29
minimum elong	-7983 Jan 17 j 02:01	0°♐18'46	0°40'55
max. Earth dist.	-7983 Jan 17 j 17:08	0°♐20'55	20.94184 AU
morning rise	-7983 Feb 02 j 15:48	1°♐14'53	
retrograde	-7983 May 08 j 10:37	4°♐22'49	
opposition	-7983 Jul 24 j 11:02	2°♐22'33	-0°46'31
min. Earth dist.	-7983 Jul 23 j 22:32	2°♐23'50	18.92175 AU
direct	-7983 Oct 07 j 00:48	0°♐25'05	
evening set	-7982 Jan 05 j 01:04	3°♐24'39	
conjunction	-7982 Jan 21 j 12:06	4°♐20'27	-0°43'29
minimum elong	-7982 Jan 21 j 12:06	4°♐20'27	0°43'56
max. Earth dist.	-7982 Jan 22 j 00:22	4°♐22'11	20.90057 AU
morning rise	-7982 Feb 07 j 02:51	5°♐16'46	
retrograde	-7982 May 12 j 19:36	8°♐25'00	
opposition	-7982 Jul 28 j 16:53	6°♐24'37	-0°49'43
min. Earth dist.	-7982 Jul 28 j 07:05	6°♐25'38	18.87904 AU
direct	-7982 Oct 11 j 05:19	4°♐26'52	
evening set	-7981 Jan 09 j 10:58	7°♐27'11	
conjunction	-7981 Jan 25 j 23:07	8°♐23'12	-0°46'16
minimum elong	-7981 Jan 25 j 23:07	8°♐23'12	0°46'44
max. Earth dist.	-7981 Jan 26 j 10:10	8°♐24'47	20.85647 AU
morning rise	-7981 Feb 11 j 14:29	9°♐19'43	
retrograde	-7981 May 17 j 06:31	12°♐28'17	
opposition	-7981 Aug 01 j 22:42	10°♐27'50	-0°52'42
min. Earth dist.	-7981 Aug 01 j 13:46	10°♐28'46	18.83346 AU
direct	-7981 Oct 15 j 11:48	8°♐29'49	
evening set	-7980 Jan 13 j 21:45	11°♐30'57	
conjunction	-7980 Jan 30 j 10:39	12°♐27'12	-0°48'51
minimum elong	-7980 Jan 30 j 10:39	12°♐27'12	0°49'20
max. Earth dist.	-7980 Jan 30 j 18:43	12°♐28'21	20.80948 AU
morning rise	-7980 Feb 16 j 02:50	13°♐23'56	
retrograde	-7980 May 20 j 16:46	16°♐32'53	
opposition	-7980 Aug 05 j 05:09	14°♐32'23	-0°55'26
min. Earth dist.	-7980 Aug 04 j 23:04	14°♐33'01	18.78510 AU
direct	-7980 Oct 18 j 17:13	12°♐34'05	
evening set	-7979 Jan 17 j 09:01	15°♐36'06	
conjunction	-7979 Feb 02 j 22:57	16°♐32'37	-0°51'11
minimum elong	-7979 Feb 02 j 22:57	16°♐32'37	0°51'42
max. Earth dist.	-7979 Feb 03 j 05:34	16°♐33'34	20.75972 AU
morning rise	-7979 Feb 19 j 15:41	17°♐29'35	
retrograde	-7979 May 25 j 04:48	20°♐38'57	
opposition	-7979 Aug 09 j 11:48	18°♐38'25	-0°57'55
min. Earth dist.	-7979 Aug 09 j 06:47	18°♐38'56	18.73377 AU
direct	-7979 Oct 23 j 00:44	16°♐39'49	
evening set	-7978 Jan 21 j 21:31	19°♐42'49	
conjunction	-7978 Feb 07 j 12:10	20°♐39'36	-0°53'17
minimum elong	-7978 Feb 07 j 12:10	20°♐39'36	0°53'48
max. Earth dist.	-7978 Feb 07 j 15:35	20°♐40'05	20.70679 AU
morning rise	-7978 Feb 24 j 05:35	21°♐36'47	
retrograde	-7978 May 29 j 15:57	24°♐46'37	
opposition	-7978 Aug 13 j 18:58	22°♐46'02	-1°00'06
min. Earth dist.	-7978 Aug 13 j 17:10	22°♐46'13	18.67924 AU
direct	-7978 Oct 27 j 07:09	20°♐47'07	
evening set	-7977 Jan 26 j 10:51	23°♐51'09	

Attention, astronomical year style is used: The year -7977 in astronomical counting style is the year 7978 BCE in historical counting style.

conjunction	-7977 Feb 12 j 02:25	24°♐48'13	-0°55'07
minimum elong	-7977 Feb 12 j 02:25	24°♐48'13	0°55'39
max. Earth dist.	-7977 Feb 12 j 03:48	24°♐48'25	20.65058 AU
morning rise	-7977 Feb 28 j 20:17	25°♐45'38	
retrograde	-7977 Jun 03 j 05:29	28°♐55'56	
opposition	-7977 Aug 18 j 02:35	26°♐55'17	-1°01'59
min. Earth dist.	-7977 Aug 18 j 02:06	26°♐55'20	18.62123 AU
direct	-7977 Oct 31 j 16:18	24°♐56'02	
evening set	-7976 Jan 31 j 01:04	28°♐01'09	
conjunction	-7976 Feb 16 j 17:15	28°♐58'29	-0°56'39
minimum elong	-7976 Feb 16 j 17:15	28°♐58'29	0°57'11
max. Earth dist.	-7976 Feb 16 j 15:17	28°♐58'12	20.59072 AU
morning rise	-7976 Mar 04 j 11:36	29°♐56'09	
	-7976 Mar 05 j 14:57	0°♑	
retrograde	-7976 Jun 06 j 17:12	3°♑06'56	
opposition	-7976 Aug 21 j 10:53	1°♑06'13	-1°03'33
min. Earth dist.	-7976 Aug 21 j 13:41	1°♑05'55	18.55969 AU
	-7976 Sep 18 j 05:46	30°℞♐	
direct	-7976 Nov 03 j 23:56	29°♐06'35	
	-7976 Dec 20 j 00:40	0°♑	
evening set	-7975 Feb 03 j 16:04	2°♑12'48	
conjunction	-7975 Feb 20 j 09:03	3°♑10'26	-0°57'54
minimum elong	-7975 Feb 20 j 09:03	3°♑10'26	0°58'27
max. Earth dist.	-7975 Feb 20 j 04:48	3°♑09'49	20.52758 AU
morning rise	-7975 Mar 09 j 03:47	4°♑08'20	
retrograde	-7975 Jun 11 j 07:51	7°♑19'37	
opposition	-7975 Aug 25 j 19:29	5°♑18'46	-1°04'47
min. Earth dist.	-7975 Aug 25 j 23:36	5°♑18'20	18.49494 AU
direct	-7975 Nov 08 j 10:50	3°♑18'43	
evening set	-7974 Feb 08 j 08:01	6°♑26'06	
conjunction	-7974 Feb 25 j 01:37	7°♑24'01	-0°58'51
minimum elong	-7974 Feb 25 j 01:37	7°♑24'01	0°59'23
max. Earth dist.	-7974 Feb 24 j 18:12	7°♑22'57	20.46133 AU
morning rise	-7974 Mar 13 j 20:43	8°♑22'11	
retrograde	-7974 Jun 15 j 20:13	11°♑33'56	
opposition	-7974 Aug 30 j 04:49	9°♑32'58	-1°05'40
min. Earth dist.	-7974 Aug 30 j 12:10	9°♑32'11	18.42742 AU
direct	-7974 Nov 12 j 19:50	7°♑32'28	
evening set	-7973 Feb 13 j 00:46	10°♑41'03	
conjunction	-7973 Mar 01 j 19:00	11°♑39'16	-0°59'28
minimum elong	-7973 Mar 01 j 19:00	11°♑39'16	1°00'00
max. Earth dist.	-7973 Mar 01 j 09:14	11°♑37'50	20.39277 AU
morning rise	-7973 Mar 18 j 14:21	12°♑37'39	
retrograde	-7973 Jun 20 j 11:41	15°♑49'55	
opposition	-7973 Sep 03 j 14:28	13°♑48'48	-1°06'12
min. Earth dist.	-7973 Sep 03 j 23:02	13°♑47'53	18.35792 AU
direct	-7973 Nov 17 j 08:46	11°♑47'51	
evening set	-7972 Feb 17 j 18:22	14°♑57'39	
conjunction	-7972 Mar 05 j 13:04	15°♑56'09	-0°59'46
minimum elong	-7972 Mar 05 j 13:04	15°♑56'09	1°00'18
max. Earth dist.	-7972 Mar 05 j 00:40	15°♑54'21	20.32251 AU
morning rise	-7972 Mar 22 j 08:33	16°♑54'48	
retrograde	-7972 Jun 24 j 00:34	20°♑07'34	
opposition	-7972 Sep 07 j 00:55	18°♑06'18	-1°06'23
min. Earth dist.	-7972 Sep 07 j 12:24	18°♑05'05	18.28727 AU
direct	-7972 Nov 20 j 19:07	16°♑04'53	
evening set	-7971 Feb 21 j 12:34	19°♑15'57	
conjunction	-7971 Mar 10 j 07:45	20°♑14'44	-0°59'44
minimum elong	-7971 Mar 10 j 07:45	20°♑14'44	1°00'15
max. Earth dist.	-7971 Mar 09 j 17:07	20°♑12'35	20.25162 AU
morning rise	-7971 Mar 27 j 03:25	21°♑13'37	
retrograde	-7971 Jun 28 j 17:05	24°♑26'56	
opposition	-7971 Sep 11 j 11:51	22°♑25'31	-1°06'11
min. Earth dist.	-7971 Sep 12 j 00:20	22°♑24'11	18.21623 AU
direct	-7971 Nov 25 j 09:50	20°♑23'38	
evening set	-7970 Feb 26 j 07:53	23°♑36'00	
max. Earth dist.	-7970 Mar 14 j 10:42	24°♑32'37	20.18053 AU
conjunction	-7970 Mar 15 j 03:26	24°♑35'05	-0°59'22
minimum elong	-7970 Mar 15 j 03:26	24°♑35'05	0°59'52
morning rise	-7970 Mar 31 j 23:02	25°♑34'12	
retrograde	-7970 Jul 03 j 07:03	28°♑48'03	
opposition	-7970 Sep 15 j 23:33	26°♑46'31	-1°05'37
min. Earth dist.	-7970 Sep 16 j 14:42	26°♑44'53	18.14544 AU
direct	-7970 Nov 29 j 22:08	24°♑44'10	
evening set	-7969 Mar 03 j 04:02	27°♑57'53	
conjunction	-7969 Mar 19 j 23:50	28°♑57'14	-0°58'39
minimum elong	-7969 Mar 19 j 23:50	28°♑57'14	0°59'09
max. Earth dist.	-7969 Mar 19 j 04:44	28°♑54'24	20.11017 AU
morning rise	-7969 Apr 05 j 19:27	29°♑56'35	
	-7969 Apr 06 j 19:05	0°♒	
retrograde	-7969 Jul 08 j 00:40	3°♒11'00	
opposition	-7969 Sep 20 j 11:59	1°♒09'22	-1°04'39
min. Earth dist.	-7969 Sep 21 j 03:56	1°♒07'39	18.07564 AU
	-7969 Oct 19 j 01:18	30°℞♑	
direct	-7969 Dec 04 j 13:57	29°♑06'36	
	-7968 Jan 19 j 07:53	0°♒	
evening set	-7968 Mar 07 j 00:52	2°♒21'39	
conjunction	-7968 Mar 23 j 20:54	3°♒21'17	-0°57'36
minimum elong	-7968 Mar 23 j 20:54	3°♒21'18	0°58'05
max. Earth dist.	-7968 Mar 23 j 00:22	3°♒18'14	20.04090 AU
morning rise	-7968 Apr 09 j 16:13	4°♒20'52	
retrograde	-7968 Jul 11 j 16:40	7°♒35'51	
opposition	-7968 Sep 24 j 01:20	5°♒34'09	-1°03'19
min. Earth dist.	-7968 Sep 24 j 19:33	5°♒32'12	18.00719 AU
direct	-7968 Dec 08 j 04:18	3°♒31'00	
evening set	-7967 Mar 11 j 22:43	6°♒47'26	
conjunction	-7967 Mar 28 j 18:48	7°♒47'20	-0°56'12
minimum elong	-7967 Mar 28 j 18:48	7°♒47'20	0°56'40
max. Earth dist.	-7967 Mar 27 j 19:49	7°♒43'54	19.97338 AU
morning rise	-7967 Apr 14 j 14:02	8°♒47'08	
retrograde	-7967 Jul 16 j 11:34	12°♒02'43	
opposition	-7967 Sep 28 j 15:14	10°♒00'58	-1°01'36
min. Earth dist.	-7967 Sep 29 j 10:19	9°♒58'55	17.94057 AU
direct	-7967 Dec 12 j 21:14	7°♒57'26	
evening set	-7966 Mar 16 j 21:29	11°♒15'16	
conjunction	-7966 Apr 02 j 17:43	12°♒15'26	-0°54'27
minimum elong	-7966 Apr 02 j 17:43	12°♒15'26	0°54'53
max. Earth dist.	-7966 Apr 01 j 17:37	12°♒11'49	19.90756 AU
morning rise	-7966 Apr 19 j 12:28	13°♒15'27	
	-7966 May 22 j 00:13	15°♒	
retrograde	-7966 Jul 21 j 05:44	16°♒31'36	
	-7966 Sep 21 j 12:55	15°℞♒	
opposition	-7966 Oct 03 j 06:16	14°♒29'51	-0°59'29
min. Earth dist.	-7966 Oct 04 j 03:29	14°♒27'34	17.87566 AU
direct	-7966 Dec 17 j 13:18	12°♒26'00	
	-7965 Mar 08 j 17:03	15°♒	
evening set	-7965 Mar 21 j 21:12	15°♒45'12	
conjunction	-7965 Apr 07 j 17:10	16°♒45'37	-0°52'21
minimum elong	-7965 Apr 07 j 17:11	16°♒45'37	0°52'47
max. Earth dist.	-7965 Apr 06 j 14:26	16°♒41'35	19.84359 AU
morning rise	-7965 Apr 24 j 11:39	17°♒45'51	
retrograde	-7965 Jul 26 j 02:18	21°♒02'35	

Attention, astronomical year style is used: The year -7965 in astronomical counting style is the year 7966 BCE in historical counting style.

opposition	-7965 Oct 07 j 22:03	19°♒00'49	-0°56'59
min. Earth dist.	-7965 Oct 08 j 20:16	18°♒58'25	17.81260 AU
direct	-7965 Dec 22 j 07:58	16°♒56'38	
evening set	-7964 Mar 25 j 21:38	20°♒17'12	
conjunction	-7964 Apr 11 j 17:35	21°♒17'51	-0°49'55
minimum elong	-7964 Apr 11 j 17:35	21°♒17'51	0°50'18
max. Earth dist.	-7964 Apr 10 j 14:06	21°♒13'42	19.78127 AU
morning rise	-7964 Apr 28 j 11:21	22°♒18'16	
retrograde	-7964 Jul 29 j 22:09	25°♒35'34	
opposition	-7964 Oct 11 j 14:52	23°♒33'49	-0°54'06
min. Earth dist.	-7964 Oct 12 j 14:58	23°♒31'12	17.75116 AU
direct	-7964 Dec 26 j 01:47	21°♒29'18	
evening set	-7963 Mar 30 j 22:56	24°♒51'11	
conjunction	-7963 Apr 16 j 18:27	25°♒52'04	-0°47'09
minimum elong	-7963 Apr 16 j 18:28	25°♒52'04	0°47'29
max. Earth dist.	-7963 Apr 15 j 12:12	25°♒47'28	19.72069 AU
morning rise	-7963 May 03 j 11:50	26°♒52'40	
	-7963 Jul 15 j 06:23	0°♓	
retrograde	-7963 Aug 03 j 19:47	0°♓10'31	
	-7963 Aug 23 j 10:43	30°℞♒	
opposition	-7963 Oct 16 j 08:33	28°♒08'42	-0°50'50
min. Earth dist.	-7963 Oct 17 j 09:47	28°♒05'58	17.69147 AU
direct	-7963 Dec 30 j 22:23	26°♒03'52	
evening set	-7962 Apr 05 j 00:55	29°♒27'01	
	-7962 Apr 14 j 03:55	0°♓	
conjunction	-7962 Apr 21 j 20:14	0°♓28'07	-0°44'03
minimum elong	-7962 Apr 21 j 20:14	0°♓28'07	0°44'22
max. Earth dist.	-7962 Apr 20 j 13:32	0°♓23'25	19.66178 AU
morning rise	-7962 May 08 j 12:43	1°♓28'52	
retrograde	-7962 Aug 08 j 16:42	4°♓47'12	
opposition	-7962 Oct 21 j 03:08	2°♓45'23	-0°47'14
min. Earth dist.	-7962 Oct 22 j 05:48	2°♓42'28	17.63351 AU
direct	-7961 Jan 04 j 18:37	0°♓40'13	
evening set	-7961 Apr 10 j 03:39	4°♓04'35	
conjunction	-7961 Apr 26 j 22:18	5°♓05'51	-0°40'39
minimum elong	-7961 Apr 26 j 22:19	5°♓05'51	0°40'55
max. Earth dist.	-7961 Apr 25 j 13:07	5°♓00'45	19.60498 AU
morning rise	-7961 May 13 j 14:11	6°♓06'44	
retrograde	-7961 Aug 13 j 14:49	9°♓25'34	
opposition	-7961 Oct 25 j 22:36	7°♓23'40	-0°43'18
min. Earth dist.	-7961 Oct 27 j 02:19	7°♓20'39	17.57804 AU
direct	-7960 Jan 09 j 17:00	5°♓18'12	
evening set	-7960 Apr 14 j 06:31	8°♓43'41	
max. Earth dist.	-7960 Apr 29 j 15:46	9°♓40'02	19.55085 AU
conjunction	-7960 May 01 j 00:46	9°♓45'07	-0°36'58
minimum elong	-7960 May 01 j 00:47	9°♓45'07	0°37'13
morning rise	-7960 May 17 j 15:41	10°♓46'07	
retrograde	-7960 Aug 17 j 12:35	14°♓05'24	
opposition	-7960 Oct 29 j 18:51	12°♓03'27	-0°39'04
min. Earth dist.	-7960 Oct 30 j 23:15	12°♓00'21	17.52542 AU
direct	-7959 Jan 13 j 15:38	9°♓57'40	
evening set	-7959 Apr 19 j 10:07	13°♓24'13	
max. Earth dist.	-7959 May 04 j 16:43	14°♓20'24	19.50001 AU
conjunction	-7959 May 06 j 03:34	14°♓25'47	-0°33'01
minimum elong	-7959 May 06 j 03:35	14°♓25'47	0°33'13
morning rise	-7959 May 22 j 17:40	15°♓26'54	
retrograde	-7959 Aug 22 j 10:43	18°♓46'35	
opposition	-7959 Nov 03 j 15:44	16°♓44'33	-0°34'33
min. Earth dist.	-7959 Nov 04 j 21:08	16°♓41'20	17.47657 AU
direct	-7958 Jan 18 j 15:15	14°♓38'29	
evening set	-7958 Apr 24 j 13:57	18°♓06'01	
max. Earth dist.	-7958 May 09 j 20:30	19°♓02'24	19.45322 AU
conjunction	-7958 May 11 j 06:46	19°♓07'43	-0°28'50
minimum elong	-7958 May 11 j 06:46	19°♓07'43	0°29'00
morning rise	-7958 May 27 j 19:47	20°♓08'53	
retrograde	-7958 Aug 27 j 09:31	23°♓28'58	
opposition	-7958 Nov 08 j 13:31	21°♓26'52	-0°29'47
min. Earth dist.	-7958 Nov 09 j 18:47	21°♓23'40	17.43198 AU
direct	-7957 Jan 23 j 16:21	19°♓20'33	
evening set	-7957 Apr 29 j 18:00	22°♓48'59	
max. Earth dist.	-7957 May 14 j 22:46	23°♓45'18	19.41107 AU
conjunction	-7957 May 16 j 09:50	23°♓50'45	-0°24'28
minimum elong	-7957 May 16 j 09:50	23°♓50'45	0°24'35
morning rise	-7957 Jun 01 j 21:49	24°♓51'59	
retrograde	-7957 Sep 01 j 07:39	28°♓12'25	
opposition	-7957 Nov 13 j 12:04	26°♓10'16	-0°24'48
min. Earth dist.	-7957 Nov 14 j 18:00	26°♓07'00	17.39256 AU
direct	-7956 Jan 28 j 17:16	24°♓03'45	
evening set	-7956 May 03 j 22:10	27°♓33'00	
max. Earth dist.	-7956 May 19 j 02:59	28°♓29'29	19.37444 AU
conjunction	-7956 May 20 j 13:07	28°♓34'49	-0°19'54
minimum elong	-7956 May 20 j 13:07	28°♓34'49	0°19'58
morning rise	-7956 Jun 05 j 23:59	29°♓36'04	
	-7956 Jun 12 j 14:46	0°♈	
retrograde	-7956 Sep 05 j 07:18	2°♈56'50	
opposition	-7956 Nov 17 j 11:10	0°♈54'39	-0°19'37
min. Earth dist.	-7956 Nov 18 j 16:09	0°♈51'29	17.35879 AU
	-7956 Dec 09 j 00:46	30°℞♓	
direct	-7955 Feb 01 j 20:14	28°♓48'00	
	-7955 Mar 27 j 02:43	0°♈	
evening set	-7955 May 09 j 02:34	2°♈17'57	
max. Earth dist.	-7955 May 24 j 06:27	3°♈14'28	19.34368 AU
conjunction	-7955 May 25 j 16:28	3°♈19'48	-0°15'12
minimum elong	-7955 May 25 j 16:28	3°♈19'48	0°15'14
behind sun begin	-7955 May 25 j 14:30	3°♈19'30	
behind sun end	-7955 May 25 j 18:27	3°♈20'06	
morning rise	-7955 Jun 11 j 02:08	4°♈21'04	
retrograde	-7955 Sep 10 j 05:53	7°♈42'07	
opposition	-7955 Nov 22 j 11:07	5°♈39'58	-0°14'18
min. Earth dist.	-7955 Nov 23 j 16:32	5°♈36'45	17.33122 AU
direct	-7954 Feb 06 j 22:03	3°♈33'12	
evening set	-7954 May 14 j 07:01	7°♈03'47	
max. Earth dist.	-7954 May 29 j 10:41	8°♈00'26	19.31932 AU
conjunction	-7954 May 30 j 19:46	8°♈05'38	-0°10'23
minimum elong	-7954 May 30 j 19:47	8°♈05'38	0°10'22
behind sun begin	-7954 May 30 j 14:30	8°♈04'50	
behind sun end	-7954 May 31 j 01:03	8°♈06'27	
morning rise	-7954 Jun 16 j 04:16	9°♈06'53	
retrograde	-7954 Sep 15 j 06:48	12°♈28'12	
opposition	-7954 Nov 27 j 11:37	10°♈26'06	-0°08'51
min. Earth dist.	-7954 Nov 28 j 15:27	10°♈23'03	17.30995 AU
direct	-7953 Feb 12 j 02:20	8°♈19'19	
evening set	-7953 May 19 j 11:29	11°♈50'25	
conjunction	-7953 Jun 04 j 23:06	12°♈52'14	-0°05'29
minimum elong	-7953 Jun 04 j 23:07	12°♈52'15	0°05'26
behind sun begin	-7953 Jun 04 j 16:39	12°♈51'15	
behind sun end	-7953 Jun 05 j 05:36	12°♈53'14	
max. Earth dist.	-7953 Jun 03 j 15:09	12°♈47'13	19.30128 AU
morning rise	-7953 Jun 21 j 06:15	13°♈53'27	
retrograde	-7953 Sep 20 j 06:14	17°♈14'59	
opposition	-7953 Dec 02 j 12:54	15°♈12'59	-0°03'20
min. Earth dist.	-7953 Dec 03 j 16:58	15°♈09'56	17.29513 AU

Attention, astronomical year style is used: The year -7952 in astronomical counting style is the year 7953 BCE in historical counting style.

direct	-7952 Feb 17 j 04:24	13°♈06'14		
evening set	-7952 May 23 j 15:47	16°♈37'44		
max. Earth dist.	-7952 Jun 07 j 18:56	17°♈34'35	19.28962 AU	
conjunction	-7952 Jun 09 j 02:09	17°♈39'30	-0°00'28	
minimum elong	-7952 Jun 09 j 02:07	17°♈39'30	0°00'22	
behind sun begin	-7952 Jun 08 j 19:27	17°♈38'29		
behind sun end	-7952 Jun 09 j 08:48	17°♈40'32		
morning rise	-7952 Jun 25 j 08:08	18°♈40'39		
asc. node	-7952 Jul 13 j 05:16	19°♈44'13		
retrograde	-7952 Sep 24 j 08:10	22°♈02'23		
opposition	-7952 Dec 06 j 14:33	20°♈00'28	0°02'14	
min. Earth dist.	-7952 Dec 07 j 16:47	19°♈57'37	17.28633 AU	
direct	-7951 Feb 21 j 08:47	17°♈53'49		
evening set	-7951 May 28 j 20:03	21°♈25'35		
max. Earth dist.	-7951 Jun 12 j 23:48	22°♈22'38	19.28365 AU	
conjunction	-7951 Jun 14 j 05:14	22°♈27'17	0°04'37	
minimum elong	-7951 Jun 14 j 05:13	22°♈27'17	0°04'46	
behind sun begin	-7951 Jun 13 j 22:41	22°♈26'16		
behind sun end	-7951 Jun 14 j 11:45	22°♈28'17		
morning rise	-7951 Jun 30 j 09:45	23°♈28'20		
retrograde	-7951 Sep 29 j 08:26	26°♈50'11		
opposition	-7951 Dec 11 j 16:51	24°♈48'24	0°07'48	
min. Earth dist.	-7951 Dec 12 j 19:14	24°♈45'32	17.28313 AU	
direct	-7950 Feb 26 j 11:41	22°♈41'50		
evening set	-7950 Jun 03 j 00:14	26°♈13'46		
max. Earth dist.	-7950 Jun 18 j 03:01	27°♈10'45	19.28318 AU	
conjunction	-7950 Jun 19 j 07:56	27°♈15'20	0°09'33	
minimum elong	-7950 Jun 19 j 07:55	27°♈15'20	0°09'44	
behind sun begin	-7950 Jun 19 j 02:26	27°♈14'29		
behind sun end	-7950 Jun 19 j 13:24	27°♈16'11		
morning rise	-7950 Jul 05 j 11:18	28°♈16'17		
	-7950 Aug 04 j 20:01	0°♉		
retrograde	-7950 Oct 04 j 10:20	1°♉38'13		
	-7950 Dec 07 j 16:55	30°℞♈		
opposition	-7950 Dec 16 j 19:37	29°♈36'31	0°13'18	
min. Earth dist.	-7950 Dec 17 j 19:59	29°♈33'52	17.28520 AU	
direct	-7949 Mar 03 j 16:33	27°♈30'05		
	-7949 May 21 j 18:58	0°♉		
evening set	-7949 Jun 08 j 03:49	1°♉02'00		
max. Earth dist.	-7949 Jun 23 j 07:47	1°♉59'14	19.28768 AU	
conjunction	-7949 Jun 24 j 10:17	2°♉03'26	0°14'26	
minimum elong	-7949 Jun 24 j 10:17	2°♉03'26	0°14'40	
behind sun begin	-7949 Jun 24 j 07:29	2°♉03'00		
behind sun end	-7949 Jun 24 j 13:05	2°♉03'52		
morning rise	-7949 Jul 10 j 12:10	3°♉04'14		
retrograde	-7949 Oct 09 j 10:31	6°♉26'12		
opposition	-7949 Dec 21 j 22:52	4°♉24'34	0°18'43	
min. Earth dist.	-7949 Dec 22 j 22:54	4°♉21'58	17.29210 AU	
direct	-7948 Mar 07 j 20:49	2°♉18'17		
evening set	-7948 Jun 12 j 07:13	5°♉50'04		
max. Earth dist.	-7948 Jun 27 j 10:07	6°♉47'11	19.29701 AU	
conjunction	-7948 Jun 28 j 12:10	6°♉51'19	0°19'13	
minimum elong	-7948 Jun 28 j 12:10	6°♉51'19	0°19'29	
morning rise	-7948 Jul 14 j 12:57	7°♉51'57		
retrograde	-7948 Oct 13 j 11:18	11°♉13'53		
opposition	-7948 Dec 26 j 02:01	9°♉12'18	0°24'00	
min. Earth dist.	-7948 Dec 27 j 00:02	9°♉09'56	17.30375 AU	
direct	-7947 Mar 13 j 02:15	7°♉06'08		
evening set	-7947 Jun 17 j 09:58	10°♉37'40		
conjunction	-7947 Jul 03 j 13:44	11°♉38'44	0°23'52	
minimum elong	-7947 Jul 03 j 13:43	11°♉38'44	0°24'09	
max. Earth dist.	-7947 Jul 02 j 14:25	11°♉35'02	19.31092 AU	
morning rise	-7947 Jul 19 j 13:04	12°♉39'11		
	-7947 Sep 01 j 07:44	15°♉		
retrograde	-7947 Oct 18 j 10:59	16°♉01'00		
	-7947 Dec 06 j 15:05	15°℞♉		
opposition	-7947 Dec 31 j 05:37	13°♉59'28	0°29'05	
min. Earth dist.	-7946 Jan 01 j 02:41	13°♉57'12	17.31988 AU	
direct	-7946 Mar 18 j 07:58	11°♉53'29		
	-7946 Jun 15 j 19:19	15°♉		
evening set	-7946 Jun 22 j 12:09	15°♉24'35		
conjunction	-7946 Jul 08 j 14:22	16°♉25'26	0°28'20	
minimum elong	-7946 Jul 08 j 14:22	16°♉25'26	0°28'41	
max. Earth dist.	-7946 Jul 07 j 15:51	16°♉21'52	19.32946 AU	
morning rise	-7946 Jul 24 j 12:37	17°♉25'41		
retrograde	-7946 Oct 23 j 10:24	20°♉47'21		
opposition	-7945 Jan 05 j 09:11	18°♉45'50	0°33'58	
min. Earth dist.	-7945 Jan 06 j 04:07	18°♉43'49	17.34081 AU	
direct	-7945 Mar 23 j 13:29	16°♉40'00		
evening set	-7945 Jun 27 j 13:28	20°♉10'35		
conjunction	-7945 Jul 13 j 14:31	21°♉11'12	0°32'35	
minimum elong	-7945 Jul 13 j 14:31	21°♉11'12	0°32'57	
max. Earth dist.	-7945 Jul 12 j 19:14	21°♉08'08	19.35282 AU	
morning rise	-7945 Jul 29 j 11:28	22°♉11'14		
retrograde	-7945 Oct 28 j 09:38	25°♉32'41		
opposition	-7944 Jan 10 j 12:41	23°♉31'12	0°38'35	
min. Earth dist.	-7944 Jan 11 j 05:52	23°♉29'21	17.36656 AU	
direct	-7944 Mar 27 j 18:58	21°♉25'33		
evening set	-7944 Jul 01 j 14:03	24°♉55'27		
conjunction	-7944 Jul 17 j 13:40	25°♉55'49	0°36'36	
minimum elong	-7944 Jul 17 j 13:40	25°♉55'49	0°37'01	
max. Earth dist.	-7944 Jul 16 j 19:44	25°♉52'59	19.38115 AU	
morning rise	-7944 Aug 02 j 09:39	26°♉55'39		
	-7944 Oct 07 j 20:15	0°♊		
retrograde	-7944 Nov 01 j 08:12	0°♊16'50		
	-7944 Nov 26 j 09:32	30°℞♉		
opposition	-7943 Jan 14 j 16:02	28°♉15'21	0°42'56	
min. Earth dist.	-7943 Jan 15 j 07:05	28°♉13'45	17.39751 AU	
direct	-7943 Apr 01 j 23:07	26°♉09'54		
evening set	-7943 Jul 06 j 13:43	29°♉39'04		
	-7943 Jul 12 j 04:16	0°♊		
conjunction	-7943 Jul 22 j 12:10	0°♊39'09	0°40'21	
minimum elong	-7943 Jul 22 j 12:09	0°♊39'09	0°40'47	
max. Earth dist.	-7943 Jul 21 j 21:38	0°♊36'51	19.41472 AU	
morning rise	-7943 Aug 07 j 06:56	1°♊38'45		
retrograde	-7943 Nov 06 j 06:57	4°♊59'37		
opposition	-7942 Jan 19 j 19:11	2°♊58'11	0°46'57	
min. Earth dist.	-7942 Jan 20 j 07:38	2°♊56'52	17.43366 AU	
direct	-7942 Apr 07 j 03:39	0°♊52'59		
evening set	-7942 Jul 11 j 12:39	4°♊21'18		
conjunction	-7942 Jul 27 j 09:45	5°♊21'07	0°43'49	
minimum elong	-7942 Jul 27 j 09:44	5°♊21'07	0°44'16	
max. Earth dist.	-7942 Jul 26 j 21:12	5°♊19'08	19.45366 AU	
morning rise	-7942 Aug 12 j 03:35	6°♊20'27		
retrograde	-7942 Nov 11 j 04:53	9°♊41'00		
opposition	-7941 Jan 24 j 22:12	7°♊39'37	0°50'39	
min. Earth dist.	-7941 Jan 25 j 08:26	7°♊38'33	17.47546 AU	
direct	-7941 Apr 12 j 06:11	5°♊34'44		
evening set	-7941 Jul 16 j 10:28	9°♊02'06		
conjunction	-7941 Aug 01 j 06:29	10°♊01'38	0°46'59	
minimum elong	-7941 Aug 01 j 06:29	10°♊01'38	0°47'28	
max. Earth dist.	-7941 Jul 31 j 21:18	10°♊00'11	19.49820 AU	

Attention, astronomical year style is used: The year -7941 in astronomical counting style is the year 7942 BCE in historical counting style.

morning rise	-7941 Aug 16 j 23:22	11°♊00'44	
retrograde	-7941 Nov 16 j 03:26	14°♊20'55	
opposition	-7940 Jan 30 j 00:46	12°♊19'39	0°53'59
min. Earth dist.	-7940 Jan 30 j 07:46	12°♊18'55	17.52253 AU
direct	-7940 Apr 16 j 09:16	10°♊15'07	
evening set	-7940 Jul 20 j 07:36	13°♊41'30	
conjunction	-7940 Aug 05 j 02:28	14°♊40'44	0°49'49
minimum elong	-7940 Aug 05 j 02:28	14°♊40'44	0°50'18
max. Earth dist.	-7940 Aug 04 j 19:39	14°♊39'40	19.54783 AU
morning rise	-7940 Aug 20 j 18:32	15°♊39'34	
retrograde	-7940 Nov 20 j 00:32	18°♊59'23	
opposition	-7939 Feb 03 j 02:54	16°♊58'14	0°56'57
min. Earth dist.	-7939 Feb 03 j 08:01	16°♊57'42	17.57463 AU
direct	-7939 Apr 21 j 10:04	14°♊54'06	
evening set	-7939 Jul 25 j 03:47	18°♊19'27	
conjunction	-7939 Aug 09 j 21:40	19°♊18'23	0°52'19
minimum elong	-7939 Aug 09 j 21:39	19°♊18'23	0°52'50
max. Earth dist.	-7939 Aug 09 j 17:47	19°♊17'47	19.60225 AU
morning rise	-7939 Aug 25 j 12:58	20°♊16'58	
retrograde	-7939 Nov 24 j 22:52	23°♊36'22	
opposition	-7938 Feb 08 j 04:45	21°♊35'23	0°59'32
min. Earth dist.	-7938 Feb 08 j 06:24	21°♊35'13	17.63100 AU
direct	-7938 Apr 26 j 12:02	19°♊31'41	
evening set	-7938 Jul 29 j 23:01	22°♊55'55	
conjunction	-7938 Aug 14 j 15:55	23°♊54'33	0°54'29
minimum elong	-7938 Aug 14 j 15:55	23°♊54'33	0°55'00
max. Earth dist.	-7938 Aug 14 j 14:48	23°♊54'22	19.66050 AU
morning rise	-7938 Aug 30 j 06:34	24°♊52'52	
retrograde	-7938 Nov 29 j 18:59	28°♊11'52	
opposition	-7937 Feb 13 j 06:18	26°♊11'02	1°01'44
min. Earth dist.	-7937 Feb 13 j 06:23	26°♊11'02	17.69102 AU
direct	-7937 May 01 j 11:44	24°♊07'47	
evening set	-7937 Aug 03 j 17:29	27°♊30'50	
conjunction	-7937 Aug 19 j 09:30	28°♊29'11	0°56'17
minimum elong	-7937 Aug 19 j 09:30	28°♊29'11	0°56'48
max. Earth dist.	-7937 Aug 19 j 10:47	28°♊29'23	19.72202 AU
morning rise	-7937 Sep 03 j 23:36	29°♊27'14	
	-7937 Sep 13 j 02:22	0°♋	
retrograde	-7937 Dec 04 j 16:47	2°♋45'47	
opposition	-7936 Feb 18 j 07:01	0°♋45'06	1°03'30
min. Earth dist.	-7936 Feb 18 j 03:43	0°♋45'26	17.75377 AU
	-7936 Mar 07 j 19:39	30°℞♊	
direct	-7936 May 05 j 12:31	28°♊42'17	
	-7936 Jun 30 j 02:47	0°♋	
evening set	-7936 Aug 07 j 11:03	2°♋04'08	
conjunction	-7936 Aug 23 j 02:19	3°♋02'10	0°57'42
minimum elong	-7936 Aug 23 j 02:19	3°♋02'10	0°58'15
max. Earth dist.	-7936 Aug 23 j 06:19	3°♋02'47	19.78577 AU
morning rise	-7936 Sep 07 j 15:53	3°♋59'58	
retrograde	-7936 Dec 08 j 11:11	7°♋18'01	
opposition	-7935 Feb 22 j 07:26	5°♋17'29	1°04'52
min. Earth dist.	-7935 Feb 22 j 02:55	5°♋17'57	17.81846 AU
direct	-7935 May 10 j 11:28	3°♋15'07	
evening set	-7935 Aug 12 j 03:42	6°♋35'41	
conjunction	-7935 Aug 27 j 18:12	7°♋33'25	0°58'46
minimum elong	-7935 Aug 27 j 18:12	7°♋33'25	0°59'17
max. Earth dist.	-7935 Aug 28 j 00:03	7°♋34'19	19.85118 AU
morning rise	-7935 Sep 12 j 07:26	8°♋30'57	
retrograde	-7935 Dec 13 j 07:37	11°♋48'31	
opposition	-7934 Feb 27 j 07:06	9°♋48'04	1°05'49
min. Earth dist.	-7934 Feb 26 j 23:15	9°♋48'53	17.88439 AU
direct	-7934 May 15 j 11:19	7°♋46'08	
evening set	-7934 Aug 16 j 19:28	11°♋05'24	
conjunction	-7934 Sep 01 j 09:26	12°♋02'49	0°59'27
minimum elong	-7934 Sep 01 j 09:26	12°♋02'49	0°59'59
max. Earth dist.	-7934 Sep 01 j 18:06	12°♋04'10	19.91746 AU
morning rise	-7934 Sep 16 j 22:18	13°♋00'06	
retrograde	-7934 Dec 18 j 00:16	16°♋17'07	
opposition	-7933 Mar 04 j 06:13	14°♋16'46	1°06'21
min. Earth dist.	-7933 Mar 03 j 21:14	14°♋17'42	17.95103 AU
direct	-7933 May 20 j 08:45	12°♋15'14	
evening set	-7933 Aug 21 j 10:16	15°♋33'09	
conjunction	-7933 Sep 05 j 23:41	16°♋30'16	0°59'46
minimum elong	-7933 Sep 05 j 23:41	16°♋30'16	1°00'17
max. Earth dist.	-7933 Sep 06 j 09:46	16°♋31'50	19.98431 AU
morning rise	-7933 Sep 21 j 12:30	17°♋27'18	
retrograde	-7933 Dec 22 j 19:00	20°♋43'45	
opposition	-7932 Mar 08 j 04:21	18°♋43'27	1°06'28
min. Earth dist.	-7932 Mar 07 j 16:18	18°♋44'41	18.01794 AU
direct	-7932 May 24 j 06:45	16°♋42'17	
evening set	-7932 Aug 25 j 00:06	19°♋58'50	
conjunction	-7932 Sep 09 j 13:13	20°♋55'41	0°59'43
minimum elong	-7932 Sep 09 j 13:13	20°♋55'41	1°00'14
max. Earth dist.	-7932 Sep 10 j 02:11	20°♋57'40	20.05118 AU
morning rise	-7932 Sep 25 j 01:49	21°♋52'28	
retrograde	-7932 Dec 26 j 09:34	25°♋08'18	
opposition	-7931 Mar 13 j 01:43	23°♋08'03	1°06'12
min. Earth dist.	-7931 Mar 12 j 12:34	23°♋09'24	18.08486 AU
direct	-7931 May 29 j 02:20	21°♋07'13	
evening set	-7931 Aug 29 j 13:03	24°♋22'23	
conjunction	-7931 Sep 14 j 01:45	25°♋18'57	0°59'20
minimum elong	-7931 Sep 14 j 01:45	25°♋18'57	0°59'50
max. Earth dist.	-7931 Sep 14 j 16:02	25°♋21'08	20.11823 AU
morning rise	-7931 Sep 29 j 14:30	26°♋15'30	
retrograde	-7931 Dec 31 j 02:42	29°♋30'44	
opposition	-7930 Mar 17 j 22:14	27°♋30'30	1°05'33
min. Earth dist.	-7930 Mar 17 j 06:07	27°♋32'09	18.15201 AU
direct	-7930 Jun 02 j 21:34	25°♋29'59	
evening set	-7930 Sep 03 j 00:50	28°♋43'46	
conjunction	-7930 Sep 18 j 13:27	29°♋40'04	0°58'36
minimum elong	-7930 Sep 18 j 13:27	29°♋40'04	0°59'05
max. Earth dist.	-7930 Sep 19 j 06:55	29°♋42'43	20.18540 AU
	-7930 Sep 24 j 00:25	0°♌	
morning rise	-7930 Oct 04 j 02:11	0°♌36'24	
retrograde	-7929 Jan 04 j 16:10	3°♌51'01	
opposition	-7929 Mar 22 j 17:57	1°♌50'48	1°04'32
min. Earth dist.	-7929 Mar 22 j 00:32	1°♌52'34	18.21933 AU
	-7929 May 19 j 07:19	30°℞♋	
direct	-7929 Jun 07 j 15:15	29°♋50'37	
	-7929 Jun 26 j 15:05	0°♌	
evening set	-7929 Sep 07 j 12:00	3°♌03'02	
conjunction	-7929 Sep 23 j 00:21	3°♌59'04	0°57'33
minimum elong	-7929 Sep 23 j 00:22	3°♌59'04	0°58'02
max. Earth dist.	-7929 Sep 23 j 19:00	4°♌01'53	20.25290 AU
morning rise	-7929 Oct 08 j 13:26	4°♌55'11	
retrograde	-7928 Jan 09 j 07:35	8°♌09'11	
opposition	-7928 Mar 26 j 12:29	6°♌09'00	1°03'10
min. Earth dist.	-7928 Mar 25 j 16:21	6°♌11'02	18.28707 AU
direct	-7928 Jun 11 j 07:27	4°♌09'09	
evening set	-7928 Sep 10 j 22:12	7°♌20'14	
conjunction	-7928 Sep 26 j 10:39	8°♌16'02	0°56'11

Attention, astronomical year style is used: The year -7928 in astronomical counting style is the year 7929 BCE in historical counting style.

minimum elong	-7928 Sep 26 j 10:40	8°♌16'02	0°56'38
max. Earth dist.	-7928 Sep 27 j 08:23	8°♌19'19	20.32066 AU
morning rise	-7928 Oct 11 j 23:50	9°♌11'57	
retrograde	-7927 Jan 12 j 20:27	12°♌25'21	
min. Earth dist.	-7927 Mar 30 j 08:49	10°♌27'25	18.35493 AU
opposition	-7927 Mar 31 j 06:23	10°♌25'14	1°01'28
direct	-7927 Jun 15 j 23:25	8°♌25'45	
evening set	-7927 Sep 15 j 07:38	11°♌35'33	
conjunction	-7927 Sep 30 j 20:00	12°♌31'06	0°54'32
minimum elong	-7927 Sep 30 j 20:00	12°♌31'06	0°54'58
max. Earth dist.	-7927 Oct 01 j 18:42	12°♌34'31	20.38859 AU
morning rise	-7927 Oct 16 j 09:42	13°♌26'50	
	-7927 Nov 14 j 01:52	15°♌	
retrograde	-7926 Jan 17 j 10:56	16°♌39'41	
	-7926 Mar 27 j 13:01	15°℞♌	
opposition	-7926 Apr 04 j 23:28	14°♌39'38	0°59'26
min. Earth dist.	-7926 Apr 03 j 23:30	14°♌42'03	18.42283 AU
direct	-7926 Jun 20 j 13:18	12°♌40'31	
	-7926 Sep 05 j 05:05	15°♌	
evening set	-7926 Sep 19 j 16:22	15°♌49'05	
conjunction	-7926 Oct 05 j 05:03	16°♌44'26	0°52'35
minimum elong	-7926 Oct 05 j 05:03	16°♌44'26	0°53'00
max. Earth dist.	-7926 Oct 06 j 06:38	16°♌48'15	20.45619 AU
morning rise	-7926 Oct 20 j 19:02	17°♌39'59	
retrograde	-7925 Jan 21 j 23:08	20°♌52'17	
opposition	-7925 Apr 09 j 15:37	18°♌52'20	0°57'06
min. Earth dist.	-7925 Apr 08 j 14:24	18°♌54'53	18.49006 AU
direct	-7925 Jun 25 j 03:34	16°♌53'37	
evening set	-7925 Sep 24 j 00:33	20°♌00'59	
conjunction	-7925 Oct 09 j 13:20	20°♌56'08	0°50'22
minimum elong	-7925 Oct 09 j 13:21	20°♌56'08	0°50'46
max. Earth dist.	-7925 Oct 10 j 15:26	21°♌00'01	20.52293 AU
morning rise	-7925 Oct 25 j 04:02	21°♌51'32	
retrograde	-7924 Jan 26 j 12:48	25°♌03'20	
min. Earth dist.	-7924 Apr 12 j 04:08	23°♌06'11	18.55613 AU
opposition	-7924 Apr 13 j 07:02	23°♌03'29	0°54'29
direct	-7924 Jun 28 j 15:48	21°♌05'08	
evening set	-7924 Sep 27 j 08:04	24°♌11'23	
conjunction	-7924 Oct 12 j 21:17	25°♌06'21	0°47'54
minimum elong	-7924 Oct 12 j 21:17	25°♌06'21	0°48'16
max. Earth dist.	-7924 Oct 14 j 01:51	25°♌10'35	20.58800 AU
morning rise	-7924 Oct 28 j 12:22	26°♌01'36	
retrograde	-7923 Jan 30 j 00:08	29°♌12'53	
opposition	-7923 Apr 17 j 21:40	27°♌13'10	0°51'35
min. Earth dist.	-7923 Apr 16 j 17:47	27°♌15'58	18.62009 AU
direct	-7923 Jul 03 j 04:20	25°♌15'13	
evening set	-7923 Oct 01 j 15:16	28°♌20'22	
conjunction	-7923 Oct 17 j 04:43	29°♌15'09	0°45'12
minimum elong	-7923 Oct 17 j 04:43	29°♌15'09	0°45'31
max. Earth dist.	-7923 Oct 18 j 09:21	29°♌19'23	20.65078 AU
	-7923 Oct 29 j 21:38	0°♍	
morning rise	-7923 Nov 01 j 20:36	0°♍10'16	
retrograde	-7922 Feb 03 j 12:50	3°♍21'07	
min. Earth dist.	-7922 Apr 21 j 06:46	1°♍24'23	18.68155 AU
opposition	-7922 Apr 22 j 11:40	1°♍21'29	0°48'26
	-7922 May 29 j 18:56	30°℞♌	
direct	-7922 Jul 07 j 15:15	29°♌23'52	
	-7922 Aug 14 j 06:30	0°♍	
evening set	-7922 Oct 05 j 21:51	2°♍28'00	
conjunction	-7922 Oct 21 j 11:55	3°♍22'38	0°42'16
minimum elong	-7922 Oct 21 j 11:55	3°♍22'38	0°42'33
max. Earth dist.	-7922 Oct 22 j 18:35	3°♍27'09	20.71055 AU
morning rise	-7922 Nov 06 j 04:22	4°♍17'39	
retrograde	-7921 Feb 07 j 23:35	7°♍28'01	
min. Earth dist.	-7921 Apr 25 j 19:18	5°♍31'27	18.73950 AU
opposition	-7921 Apr 27 j 00:53	5°♍28'29	0°45'03
direct	-7921 Jul 12 j 02:10	3°♍31'12	
evening set	-7921 Oct 10 j 04:18	6°♍34'20	
conjunction	-7921 Oct 25 j 18:44	7°♍28'51	0°39'07
minimum elong	-7921 Oct 25 j 18:44	7°♍28'51	0°39'22
max. Earth dist.	-7921 Oct 27 j 00:53	7°♍33'16	20.76657 AU
morning rise	-7921 Nov 10 j 12:06	8°♍23'45	
retrograde	-7920 Feb 12 j 10:55	11°♍33'41	
min. Earth dist.	-7920 Apr 29 j 07:24	9°♍37'13	18.79355 AU
opposition	-7920 Apr 30 j 13:17	9°♍34'13	0°41'27
direct	-7920 Jul 15 j 11:49	7°♍37'12	
evening set	-7920 Oct 13 j 10:09	10°♍39'25	
conjunction	-7920 Oct 29 j 01:20	11°♍33'48	0°35'48
minimum elong	-7920 Oct 29 j 01:20	11°♍33'49	0°36'02
max. Earth dist.	-7920 Oct 30 j 09:04	11°♍38'27	20.81839 AU
morning rise	-7920 Nov 13 j 19:20	12°♍28'37	
retrograde	-7919 Feb 15 j 21:03	15°♍38'08	
min. Earth dist.	-7919 May 03 j 18:38	13°♍41'44	18.84309 AU
opposition	-7919 May 05 j 01:04	13°♍38'41	0°37'40
direct	-7919 Jul 19 j 21:35	11°♍41'55	
evening set	-7919 Oct 17 j 15:38	14°♍43'14	
conjunction	-7919 Nov 02 j 07:20	15°♍37'31	0°32'19
minimum elong	-7919 Nov 02 j 07:20	15°♍37'31	0°32'30
max. Earth dist.	-7919 Nov 03 j 14:23	15°♍42'02	20.86576 AU
morning rise	-7919 Nov 18 j 02:23	16°♍32'16	
retrograde	-7918 Feb 20 j 06:58	19°♍41'23	
min. Earth dist.	-7918 May 08 j 05:53	17°♍44'58	18.88827 AU
opposition	-7918 May 09 j 12:15	17°♍41'55	0°33'43
direct	-7918 Jul 24 j 06:08	15°♍45'19	
evening set	-7918 Oct 21 j 20:44	18°♍45'49	
conjunction	-7918 Nov 06 j 13:19	19°♍40'01	0°28'42
minimum elong	-7918 Nov 06 j 13:19	19°♍40'01	0°28'51
max. Earth dist.	-7918 Nov 07 j 21:49	19°♍44'44	20.90872 AU
morning rise	-7918 Nov 22 j 09:08	20°♍34'43	
retrograde	-7917 Feb 24 j 16:34	23°♍43'24	
opposition	-7917 May 13 j 22:25	21°♍43'56	0°29'37
min. Earth dist.	-7917 May 12 j 15:38	21°♍47'01	18.92904 AU
direct	-7917 Jul 28 j 14:54	19°♍47'29	
evening set	-7917 Oct 26 j 01:38	22°♍47'12	
conjunction	-7917 Nov 10 j 18:49	23°♍41'21	0°24'57
minimum elong	-7917 Nov 10 j 18:49	23°♍41'21	0°25'05
max. Earth dist.	-7917 Nov 12 j 02:29	23°♍45'56	20.94750 AU
morning rise	-7917 Nov 26 j 15:46	24°♍36'00	
retrograde	-7916 Feb 29 j 00:49	27°♍44'20	
min. Earth dist.	-7916 May 16 j 01:37	25°♍47'52	18.96594 AU
opposition	-7916 May 17 j 08:04	25°♍44'49	0°25'25
direct	-7916 Jul 31 j 21:50	23°♍48'29	
evening set	-7916 Oct 29 j 06:01	26°♍47'31	
conjunction	-7916 Nov 14 j 00:08	27°♍41'36	0°21'06
minimum elong	-7916 Nov 14 j 00:08	27°♍41'36	0°21'11
max. Earth dist.	-7916 Nov 15 j 09:13	27°♍46'22	20.98246 AU
morning rise	-7916 Nov 29 j 21:51	28°♍36'13	
	-7916 Dec 26 j 13:28	0°♎	
retrograde	-7915 Mar 04 j 09:48	1°♎44'13	
	-7915 May 15 j 07:40	30°℞♍	
min. Earth dist.	-7915 May 20 j 10:00	29°♍47'46	18.99910 AU
opposition	-7915 May 21 j 17:00	29°♍44'40	0°21'06

Attention, astronomical year style is used: The year -7915 in astronomical counting style is the year 7916 BCE in historical counting style.

direct	-7915 Aug 05 j 05:46	27°♍48'27	
	-7915 Oct 19 j 01:01	0°♎	
evening set	-7915 Nov 02 j 10:28	0°♎46'52	
conjunction	-7915 Nov 18 j 05:16	1°♎40'55	0°17'11
minimum elong	-7915 Nov 18 j 05:16	1°♎40'55	0°17'14
max. Earth dist.	-7915 Nov 19 j 13:25	1°♎45'33	21.01396 AU
morning rise	-7915 Dec 04 j 04:09	2°♎35'32	
retrograde	-7914 Mar 08 j 17:19	5°♎43'15	
min. Earth dist.	-7914 May 24 j 18:57	3°♎46'43	19.02900 AU
opposition	-7914 May 26 j 01:26	3°♎43'40	0°16'42
direct	-7914 Aug 09 j 10:58	1°♎47'33	
evening set	-7914 Nov 06 j 14:37	4°♎45'27	
conjunction	-7914 Nov 22 j 10:30	5°♎39'29	0°13'11
minimum elong	-7914 Nov 22 j 10:30	5°♎39'29	0°13'11
behind sun begin	-7914 Nov 22 j 06:35	5°♎38'56	
behind sun end	-7914 Nov 22 j 14:25	5°♎40'02	
max. Earth dist.	-7914 Nov 23 j 19:46	5°♎44'15	21.04212 AU
morning rise	-7914 Dec 08 j 10:15	6°♎34'06	
retrograde	-7913 Mar 13 j 01:35	9°♎41'33	
min. Earth dist.	-7913 May 29 j 02:22	7°♎45'05	19.05536 AU
opposition	-7913 May 30 j 09:14	7°♎41'59	0°12'15
direct	-7913 Aug 13 j 18:03	5°♎45'59	
evening set	-7913 Nov 10 j 18:56	8°♎43'26	
conjunction	-7913 Nov 26 j 15:33	9°♎37'29	0°09'09
minimum elong	-7913 Nov 26 j 15:33	9°♎37'29	0°09'07
behind sun begin	-7913 Nov 26 j 09:56	9°♎36'42	
behind sun end	-7913 Nov 26 j 21:10	9°♎38'15	
max. Earth dist.	-7913 Nov 27 j 23:33	9°♎42'03	21.06675 AU
morning rise	-7913 Dec 12 j 16:28	10°♎32'06	
retrograde	-7912 Mar 16 j 09:15	13°♎39'22	
min. Earth dist.	-7912 Jun 01 j 10:38	11°♎42'49	19.07823 AU
opposition	-7912 Jun 02 j 16:36	11°♎39'48	0°07'44
direct	-7912 Aug 16 j 22:06	9°♎43'54	
evening set	-7912 Nov 13 j 23:06	12°♎41'00	
conjunction	-7912 Nov 29 j 20:49	13°♎35'04	0°05'04
minimum elong	-7912 Nov 29 j 20:49	13°♎35'04	0°05'00
behind sun begin	-7912 Nov 29 j 14:24	13°♎34'10	
behind sun end	-7912 Nov 30 j 03:15	13°♎35'57	
max. Earth dist.	-7912 Dec 01 j 05:37	13°♎39'45	21.08775 AU
morning rise	-7912 Dec 15 j 22:37	14°♎29'43	
retrograde	-7911 Mar 20 j 16:51	17°♎36'49	
opposition	-7911 Jun 06 j 23:35	15°♎37'18	0°03'11
min. Earth dist.	-7911 Jun 05 j 17:28	15°♎40'19	19.09720 AU
direct	-7911 Aug 21 j 04:08	13°♎41'29	
evening set	-7911 Nov 18 j 03:27	16°♎38'18	
conjunction	-7911 Dec 04 j 02:02	17°♎32'24	0°00'55
minimum elong	-7911 Dec 04 j 02:00	17°♎32'24	0°00'49
behind sun begin	-7911 Dec 03 j 19:24	17°♎31'29	
behind sun end	-7911 Dec 04 j 08:36	17°♎33'19	
max. Earth dist.	-7911 Dec 05 j 09:14	17°♎36'51	21.10472 AU
morning rise	-7911 Dec 20 j 05:03	18°♎27'06	
desc. node	-7910 Feb 22 j 23:18	21°♎12'34	
retrograde	-7910 Mar 25 j 00:53	21°♎34'07	
min. Earth dist.	-7910 Jun 10 j 01:38	19°♎37'29	19.11203 AU
opposition	-7910 Jun 11 j 06:21	19°♎34'36	-0°01'22
direct	-7910 Aug 25 j 07:44	17°♎38'52	
evening set	-7910 Nov 22 j 08:01	20°♎35'30	
conjunction	-7910 Dec 08 j 07:45	21°♎29'39	-0°03'19
minimum elong	-7910 Dec 08 j 07:44	21°♎29'39	0°03'27
behind sun begin	-7910 Dec 08 j 01:10	21°♎28'45	
behind sun end	-7910 Dec 08 j 14:19	21°♎30'34	

max. Earth dist.	-7910 Dec 09 j 15:16	21°♎34'08	21.11724 AU
morning rise	-7910 Dec 24 j 11:39	22°♎24'25	
retrograde	-7909 Mar 29 j 08:23	25°♎31'19	
min. Earth dist.	-7909 Jun 14 j 08:12	23°♎34'43	19.12203 AU
opposition	-7909 Jun 15 j 12:32	23°♎31'52	-0°05'56
direct	-7909 Aug 29 j 13:01	21°♎36'09	
evening set	-7909 Nov 26 j 13:02	24°♎32'42	
conjunction	-7909 Dec 12 j 13:35	25°♎26'54	-0°07'24
minimum elong	-7909 Dec 12 j 13:35	25°♎26'54	0°07'35
behind sun begin	-7909 Dec 12 j 07:33	25°♎26'05	
behind sun end	-7909 Dec 12 j 19:36	25°♎27'44	
max. Earth dist.	-7909 Dec 13 j 18:58	25°♎31'05	21.12473 AU
morning rise	-7909 Dec 28 j 18:42	26°♎21'45	
retrograde	-7908 Apr 01 j 16:14	29°♎28'38	
opposition	-7908 Jun 18 j 18:46	27°♎29'10	-0°10'27
min. Earth dist.	-7908 Jun 17 j 16:21	27°♎31'49	19.12690 AU
direct	-7908 Sep 01 j 16:22	25°♎33'28	
evening set	-7908 Nov 29 j 18:00	28°♎29'57	
conjunction	-7908 Dec 15 j 19:43	29°♎24'16	-0°11'28
minimum elong	-7908 Dec 15 j 19:44	29°♎24'16	0°11'40
behind sun begin	-7908 Dec 15 j 15:02	29°♎23'37	
behind sun end	-7908 Dec 16 j 00:25	29°♎24'55	
max. Earth dist.	-7908 Dec 17 j 00:59	29°♎28'25	21.12678 AU
	-7908 Dec 26 j 08:13	0°♏	
morning rise	-7907 Jan 01 j 01:42	0°♏19'11	
retrograde	-7907 Apr 06 j 00:15	3°♏26'03	
min. Earth dist.	-7907 Jun 21 j 22:56	1°♏29'11	19.12600 AU
opposition	-7907 Jun 23 j 00:42	1°♏26'35	-0°14'56
	-7907 Aug 02 j 09:12	30°℞♎	
direct	-7907 Sep 05 j 21:41	29°♎30'50	
	-7907 Oct 09 j 15:19	0°♏	
evening set	-7907 Dec 03 j 23:37	2°♏27'21	
conjunction	-7907 Dec 20 j 02:14	3°♏21'45	-0°15'29
minimum elong	-7907 Dec 20 j 02:14	3°♏21'45	0°15'44
behind sun begin	-7907 Dec 20 j 01:02	3°♏21'35	
behind sun end	-7907 Dec 20 j 03:26	3°♏21'55	
max. Earth dist.	-7907 Dec 21 j 04:53	3°♏25'32	21.12301 AU
morning rise	-7906 Jan 05 j 09:26	4°♏16'47	
retrograde	-7906 Apr 10 j 07:48	7°♏23'40	
min. Earth dist.	-7906 Jun 26 j 07:04	5°♏26'30	19.11928 AU
opposition	-7906 Jun 27 j 06:31	5°♏24'08	-0°19'21
direct	-7906 Sep 10 j 01:04	3°♏28'17	
evening set	-7906 Dec 08 j 05:23	6°♏24'54	
conjunction	-7906 Dec 24 j 09:16	7°♏19'25	-0°19'26
minimum elong	-7906 Dec 24 j 09:15	7°♏19'25	0°19'41
max. Earth dist.	-7906 Dec 25 j 11:20	7°♏23'07	21.11333 AU
morning rise	-7905 Jan 09 j 17:20	8°♏14'34	
retrograde	-7905 Apr 14 j 16:13	11°♏21'27	
opposition	-7905 Jul 01 j 12:04	9°♏21'51	-0°23'40
min. Earth dist.	-7905 Jun 30 j 13:29	9°♏24'09	19.10659 AU
direct	-7905 Sep 14 j 06:33	7°♏25'52	
evening set	-7905 Dec 12 j 11:35	10°♏22'38	
conjunction	-7905 Dec 28 j 16:19	11°♏17'17	-0°23'17
minimum elong	-7905 Dec 28 j 16:19	11°♏17'17	0°23'36
max. Earth dist.	-7905 Dec 29 j 15:36	11°♏20'35	21.09787 AU
morning rise	-7904 Jan 14 j 01:32	12°♏12'33	
	-7904 Mar 20 j 11:50	15°♏	
retrograde	-7904 Apr 17 j 23:23	15°♏19'31	
	-7904 May 16 j 19:12	15°℞♏	
opposition	-7904 Jul 04 j 17:33	13°♏19'48	-0°27'52
min. Earth dist.	-7904 Jul 03 j 21:23	13°♏21'51	19.08846 AU
direct	-7904 Sep 17 j 10:10	11°♏23'37	

Attention, astronomical year style is used: The year -7904 in astronomical counting style is the year 7905 BCE in historical counting style.

evening set	-7904 Dec	15 j 17:58	14°♏20'37	
	-7904 Dec	27 j 11:07	15°♏	
conjunction	-7904 Dec	31 j 23:56	15°♏15'25	-0°27'01
minimum elong	-7904 Dec	31 j 23:56	15°♏15'25	0°27'21
max. Earth dist.	-7903 Jan	01 j 22:38	15°♏18'38	21.07727 AU
morning rise	-7903 Jan	17 j 09:58	16°♏10'49	
retrograde	-7903 Apr	22 j 08:00	19°♏17'52	
opposition	-7903 Jul	08 j 22:47	17°♏18'02	-0°31'57
min. Earth dist.	-7903 Jul	08 j 03:24	17°♏20'01	19.06541 AU
direct	-7903 Sep	21 j 15:30	15°♏21'38	
evening set	-7903 Dec	20 j 00:54	18°♏18'58	
conjunction	-7902 Jan	05 j 07:46	19°♏13'55	-0°30'38
minimum elong	-7902 Jan	05 j 07:45	19°♏13'55	0°31'00
max. Earth dist.	-7902 Jan	06 j 03:42	19°♏16'44	21.05200 AU
morning rise	-7902 Jan	21 j 18:57	20°♏09'28	
retrograde	-7902 Apr	26 j 15:28	23°♏16'39	
min. Earth dist.	-7902 Jul	12 j 11:11	21°♏18'26	19.03804 AU
opposition	-7902 Jul	13 j 04:08	21°♏16'42	-0°35'52
direct	-7902 Sep	25 j 19:18	19°♏20'04	
evening set	-7902 Dec	24 j 08:15	22°♏17'48	
conjunction	-7901 Jan	09 j 16:18	23°♏12'56	-0°34'07
minimum elong	-7901 Jan	09 j 16:18	23°♏12'56	0°34'31
max. Earth dist.	-7901 Jan	10 j 11:32	23°♏15'40	21.02261 AU
morning rise	-7901 Jan	26 j 04:14	24°♏08'39	
retrograde	-7901 May	01 j 00:32	27°♏16'00	
opposition	-7901 Jul	17 j 09:13	25°♏15'57	-0°39'38
min. Earth dist.	-7901 Jul	16 j 17:01	25°♏17'37	19.00669 AU
direct	-7901 Sep	30 j 00:37	23°♏19'05	
evening set	-7901 Dec	28 j 16:13	26°♏17'19	
conjunction	-7900 Jan	14 j 01:07	27°♏12'38	-0°37'26
minimum elong	-7900 Jan	14 j 01:06	27°♏12'38	0°37'50
max. Earth dist.	-7900 Jan	14 j 17:29	27°♏14'57	20.98948 AU
morning rise	-7900 Jan	30 j 14:05	28°♏08'31	
	-7900 Mar	08 j 01:33	0°♐	
retrograde	-7900 May	04 j 08:38	1°♐16'06	
	-7900 Jul	02 j 07:11	30°℞♏	
opposition	-7900 Jul	20 j 14:40	29°♏15'58	-0°43'13
min. Earth dist.	-7900 Jul	20 j 00:54	29°♏17'23	18.97190 AU
direct	-7900 Oct	03 j 04:24	27°♏18'51	
	-7900 Dec	26 j 15:43	0°♐	
evening set	-7899 Jan	01 j 00:26	0°♐17'39	
conjunction	-7899 Jan	17 j 10:31	1°♐13'11	-0°40'35
minimum elong	-7899 Jan	17 j 10:30	1°♐13'11	0°41'01
max. Earth dist.	-7899 Jan	18 j 02:08	1°♐15'24	20.95305 AU
morning rise	-7899 Feb	03 j 00:11	2°♐09'16	
retrograde	-7899 May	08 j 18:49	5°♐17'07	
opposition	-7899 Jul	24 j 20:08	3°♐16'55	-0°46'36
min. Earth dist.	-7899 Jul	24 j 07:08	3°♐18'16	18.93378 AU
direct	-7899 Oct	07 j 10:19	1°♐19'34	
evening set	-7898 Jan	05 j 09:40	4°♐19'02	