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 May 08 j 04:50	23°♓37'48	
conjunction	-8400 May 21 j 14:12	26°♓35'38	-0°01'33
minimum elong	-8400 May 21 j 14:12	26°♓35'38	0°01'39
behind sun begin	-8400 May 21 j 06:00	26°♓31'07	
behind sun end	-8400 May 21 j 22:24	26°♓40'10	
max. Earth dist.	-8400 May 20 j 21:18	26°♓26'16	6.31562 AU
asc. node	-8400 Jun 02 j 01:43	29°♓08'16	
morning rise	-8400 Jun 03 j 20:20	29°♓31'46	
	-8400 Jun 05 j 23:38	0°♈	
retrograde	-8400 Oct 02 j 17:06	16°♈52'55	
opposition	-8400 Dec 01 j 10:58	11°♈58'50	0°34'50
min. Earth dist.	-8400 Dec 02 j 03:09	11°♈53'33	4.33982 AU
direct	-8399 Feb 01 j 12:11	6°♈55'24	
evening set	-8399 Jun 09 j 18:33	25°♈04'53	
conjunction	-8399 Jun 22 j 18:29	27°♈57'15	0°48'25
minimum elong	-8399 Jun 22 j 18:25	27°♈57'13	0°48'37
max. Earth dist.	-8399 Jun 21 j 12:57	27°♈40'53	6.35281 AU
	-8399 Jul 02 j 00:03	0°♉	
morning rise	-8399 Jul 05 j 14:49	0°♉47'53	
	-8399 Sep 19 j 14:44	15°♉	
retrograde	-8399 Nov 03 j 02:38	17°♉59'21	
	-8399 Dec 18 j 10:23	15°℞♉	
opposition	-8398 Jan 02 j 11:11	13°♉07'26	1°39'50
min. Earth dist.	-8398 Jan 03 j 10:40	12°♉59'54	4.35526 AU
direct	-8398 Mar 05 j 23:56	8°♉06'11	
	-8398 May 17 j 05:04	15°♉	
evening set	-8398 Jul 11 j 08:03	26°♉09'06	
max. Earth dist.	-8398 Jul 22 j 11:04	28°♉37'51	6.34395 AU
conjunction	-8398 Jul 23 j 22:45	28°♉57'48	1°24'02
minimum elong	-8398 Jul 23 j 22:41	28°♉57'46	1°24'28
	-8398 Jul 28 j 14:03	0°♊	
morning rise	-8398 Aug 05 j 11:06	1°♊45'22	
retrograde	-8398 Dec 05 j 05:43	19°♊11'06	
opposition	-8397 Feb 04 j 03:33	14°♊19'30	2°16'26
min. Earth dist.	-8397 Feb 05 j 04:23	14°♊11'36	4.32392 AU
direct	-8397 Apr 07 j 12:37	9°♊21'06	
evening set	-8397 Aug 11 j 12:05	27°♊26'07	
	-8397 Aug 22 j 20:12	0°♋	
conjunction	-8397 Aug 23 j 22:06	0°♋14'42	1°35'31
minimum elong	-8397 Aug 23 j 22:06	0°♋14'42	1°36'04
max. Earth dist.	-8397 Aug 22 j 16:38	29°♊57'59	6.29172 AU
morning rise	-8397 Sep 05 j 07:03	3°♋02'55	
retrograde	-8396 Jan 07 j 12:59	21°♋02'43	
opposition	-8396 Mar 08 j 21:09	16°♋09'33	2°13'20
min. Earth dist.	-8396 Mar 09 j 14:31	16°♋04'03	4.25454 AU
direct	-8396 May 09 j 10:36	11°♋14'10	
evening set	-8396 Sep 11 j 00:34	29°♋28'32	
	-8396 Sep 13 j 07:26	0°♌	
conjunction	-8396 Sep 23 j 11:56	2°♌20'59	1°18'20
minimum elong	-8396 Sep 23 j 12:00	2°♌21'01	1°18'51
max. Earth dist.	-8396 Sep 22 j 19:29	2°♌11'29	6.21110 AU
morning rise	-8396 Oct 06 j 00:23	5°♌14'06	
	-8396 Nov 20 j 08:56	15°♌	
retrograde	-8395 Feb 10 j 09:48	23°♌59'45	
opposition	-8395 Apr 12 j 18:19	19°♌03'24	1°27'57
min. Earth dist.	-8395 Apr 12 j 23:20	19°♌01'47	4.16752 AU
	-8395 May 20 j 03:42	15°℞♌	
direct	-8395 Jun 12 j 03:34	14°♌10'00	
	-8395 Jul 04 j 23:07	15°♌	
	-8395 Oct 02 j 02:44	0°♍	

evening set	-8395 Oct 13 j 15:24	2°♍39'28	
conjunction	-8395 Oct 26 j 09:51	5°♍38'38	0°35'30
minimum elong	-8395 Oct 26 j 09:54	5°♍38'40	0°35'46
max. Earth dist.	-8395 Oct 26 j 13:40	5°♍40'51	6.12632 AU
morning rise	-8395 Nov 08 j 06:52	8°♍39'18	
retrograde	-8394 Mar 18 j 11:37	28°♍10'06	
opposition	-8394 May 18 j 12:08	23°♍09'50	0°10'55
min. Earth dist.	-8394 May 18 j 01:58	23°♍13'10	4.09136 AU
desc. node	-8394 Jul 08 j 04:00	18°♍24'04	
direct	-8394 Jul 16 j 14:25	18°♍16'55	
	-8394 Oct 16 j 17:39	0°♎	
evening set	-8394 Nov 16 j 22:34	7°♎04'17	
conjunction	-8394 Nov 30 j 01:51	10°♎10'00	-0°20'40
minimum elong	-8394 Nov 30 j 01:49	10°♎09'59	0°20'42
max. Earth dist.	-8394 Dec 01 j 01:00	10°♎23'40	6.06599 AU
morning rise	-8394 Dec 13 j 08:44	13°♎17'39	
	-8393 Mar 08 j 05:49	0°♏	
retrograde	-8393 Apr 24 j 01:20	3°♏17'25	
	-8393 Jun 09 j 23:56	30°℞♎	
opposition	-8393 Jun 23 j 11:57	28°♎13'40	-1°12'02
min. Earth dist.	-8393 Jun 22 j 14:37	28°♎20'50	4.05308 AU
direct	-8393 Aug 20 j 18:15	23°♎19'09	
	-8393 Oct 26 j 03:55	0°♏	
evening set	-8393 Dec 22 j 22:30	12°♏21'52	
	-8392 Jan 03 j 04:09	15°♏	
conjunction	-8392 Jan 05 j 09:32	15°♏31'23	-1°10'06
minimum elong	-8392 Jan 05 j 09:27	15°♏31'20	1°10'26
max. Earth dist.	-8392 Jan 06 j 22:58	15°♏53'23	6.05244 AU
morning rise	-8392 Jan 18 j 23:31	18°♏42'27	
	-8392 Mar 11 j 00:53	0°♐	
retrograde	-8392 May 29 j 06:23	8°♐41'11	
opposition	-8392 Jul 27 j 23:42	3°♐36'03	-2°08'47
min. Earth dist.	-8392 Jul 26 j 23:42	3°♐44'14	4.06710 AU
	-8392 Aug 26 j 17:28	30°℞♏	
direct	-8392 Sep 24 j 03:36	28°♏38'27	
	-8392 Oct 22 j 17:00	0°♐	
evening set	-8391 Jan 27 j 21:13	17°♐46'26	
conjunction	-8391 Feb 10 j 12:53	20°♐56'05	-1°33'43
minimum elong	-8391 Feb 10 j 12:52	20°♐56'04	1°34'15
max. Earth dist.	-8391 Feb 12 j 00:05	21°♐16'29	6.09118 AU
morning rise	-8391 Feb 24 j 06:22	24°♐06'29	
	-8391 Mar 22 j 13:20	0°♑	
retrograde	-8391 Jul 03 j 03:20	13°♑32'48	
opposition	-8391 Aug 31 j 10:11	8°♑28'47	-2°17'55
min. Earth dist.	-8391 Aug 30 j 15:06	8°♑35'19	4.12723 AU
direct	-8391 Oct 29 j 05:23	3°♑27'44	
evening set	-8390 Mar 05 j 12:49	22°♑27'12	
conjunction	-8390 Mar 19 j 06:21	25°♑34'19	-1°23'30
minimum elong	-8390 Mar 19 j 06:25	25°♑34'22	1°24'02
max. Earth dist.	-8390 Mar 20 j 04:16	25°♑46'48	6.16748 AU
morning rise	-8390 Apr 01 j 23:24	28°♑41'04	
	-8390 Apr 07 j 19:52	0°♒	
	-8390 Jun 28 j 12:14	15°♒	
retrograde	-8390 Aug 05 j 13:35	17°♒17'23	
	-8390 Sep 12 j 08:37	15°℞♒	
opposition	-8390 Oct 03 j 16:05	12°♒16'31	-1°39'34
min. Earth dist.	-8390 Oct 03 j 09:02	12°♒18'55	4.21150 AU
direct	-8390 Dec 02 j 15:19	7°♒13'04	
	-8389 Feb 16 j 01:47	15°♒	
evening set	-8389 Apr 09 j 22:47	25°♒54'25	

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

conjunction	-8389 Apr 23 j 13:59	28°♒57'06	-0°45'31
minimum elong	-8389 Apr 23 j 14:03	28°♒57'09	0°45'51
max. Earth dist.	-8389 Apr 23 j 14:32	28°♒57'25	6.25374 AU
	-8389 Apr 28 j 06:25	0°♓	
morning rise	-8389 May 07 j 02:54	1°♓58'31	
retrograde	-8389 Sep 06 j 14:40	19°♓47'15	
opposition	-8389 Nov 04 j 23:19	14°♓50'14	-0°30'56
min. Earth dist.	-8389 Nov 05 j 05:05	14°♓48'19	4.29148 AU
direct	-8388 Jan 05 j 03:46	9°♓46'01	
asc. node	-8388 Apr 12 j 01:23	21°♓36'16	
evening set	-8388 May 12 j 18:50	28°♓08'17	
	-8388 May 21 j 05:09	0°♈	
max. Earth dist.	-8388 May 25 j 08:26	0°♈55'04	6.32208 AU
conjunction	-8388 May 26 j 03:06	1°♈05'25	0°05'50
minimum elong	-8388 May 26 j 03:04	1°♈05'24	0°05'47
behind sun begin	-8388 May 25 j 19:16	1°♈01'05	
behind sun end	-8388 May 26 j 10:52	1°♈09'42	
morning rise	-8388 Jun 08 j 07:53	4°♈00'45	
retrograde	-8388 Oct 07 j 01:34	21°♈19'32	
opposition	-8388 Dec 05 j 21:04	16°♈25'53	0°44'58
min. Earth dist.	-8388 Dec 06 j 14:48	16°♈20'07	4.34315 AU
direct	-8387 Feb 06 j 01:02	11°♈22'42	
evening set	-8387 Jun 14 j 04:56	29°♈31'17	
	-8387 Jun 16 j 09:05	0°♉	
max. Earth dist.	-8387 Jun 25 j 19:29	2°♉05'20	6.35258 AU
conjunction	-8387 Jun 27 j 03:27	2°♉23'04	0°54'29
minimum elong	-8387 Jun 27 j 03:23	2°♉23'01	0°54'43
morning rise	-8387 Jul 09 j 22:41	5°♉13'13	
	-8387 Aug 26 j 13:06	15°♉	
retrograde	-8387 Nov 07 j 13:03	22°♉25'56	
opposition	-8386 Jan 06 j 23:29	17°♉34'08	1°46'58
min. Earth dist.	-8386 Jan 07 j 23:34	17°♉26'25	4.35184 AU
	-8386 Jan 28 j 02:02	15℞♉	
direct	-8386 Mar 10 j 12:34	12°♉33'14	
	-8386 Apr 20 j 20:45	15°♉	
	-8386 Jul 12 j 22:51	0°♊	
evening set	-8386 Jul 15 j 16:49	0°♊36'32	
max. Earth dist.	-8386 Jul 26 j 20:45	3°♊06'04	6.33765 AU
conjunction	-8386 Jul 28 j 06:41	3°♊25'05	1°27'14
minimum elong	-8386 Jul 28 j 06:38	3°♊25'03	1°27'42
morning rise	-8386 Aug 09 j 18:05	6°♊12'31	
retrograde	-8386 Dec 09 j 19:05	23°♊42'19	
opposition	-8385 Feb 08 j 19:14	18°♊50'39	2°18'32
min. Earth dist.	-8385 Feb 09 j 18:53	18°♊43'09	4.31544 AU
direct	-8385 Apr 12 j 02:19	13°♊52'46	
	-8385 Aug 07 j 01:10	0°♋	
evening set	-8385 Aug 15 j 21:29	1°♋58'51	
max. Earth dist.	-8385 Aug 27 j 02:22	4°♋31'19	6.28181 AU
conjunction	-8385 Aug 28 j 07:09	4°♋47'42	1°34'50
minimum elong	-8385 Aug 28 j 07:10	4°♋47'42	1°35'23
morning rise	-8385 Sep 09 j 16:19	7°♋36'23	
retrograde	-8384 Jan 12 j 08:30	25°♋41'54	
opposition	-8384 Mar 13 j 16:54	20°♋48'21	2°09'25
min. Earth dist.	-8384 Mar 14 j 08:43	20°♋43'19	4.24387 AU
direct	-8384 May 14 j 03:24	15°♋53'16	
	-8384 Aug 28 j 02:33	0°♌	
evening set	-8384 Sep 15 j 12:03	4°♌08'55	
max. Earth dist.	-8384 Sep 27 j 11:34	6°♌54'47	6.20081 AU
conjunction	-8384 Sep 28 j 00:14	7°♌02'07	1°13'42
minimum elong	-8384 Sep 28 j 00:18	7°♌02'10	1°14'11
morning rise	-8384 Oct 10 j 13:30	9°♌56'05	
	-8384 Nov 02 j 02:23	15°♌	

retrograde	-8383 Feb 15 j 08:16	28°♌47'26	
opposition	-8383 Apr 17 j 16:53	23°♌50'34	1°18'39
min. Earth dist.	-8383 Apr 17 j 19:20	23°♌49'47	4.15834 AU
direct	-8383 Jun 16 j 21:24	18°♌57'23	
	-8383 Sep 14 j 22:11	0°♍	
evening set	-8383 Oct 18 j 07:12	7°♍28'07	
conjunction	-8383 Oct 31 j 02:37	10°♍28'03	0°28'06
minimum elong	-8383 Oct 31 j 02:40	10°♍28'05	0°28'20
max. Earth dist.	-8383 Oct 31 j 08:31	10°♍31'30	6.11902 AU
morning rise	-8383 Nov 13 j 01:00	13°♍29'37	
	-8382 Feb 05 j 23:06	0°♎	
retrograde	-8382 Mar 23 j 11:29	3°♎04'29	
	-8382 May 08 j 07:31	30℞♍	
desc. node	-8382 May 19 j 07:20	28°♍36'28	
opposition	-8382 May 23 j 11:19	28°♍03'37	-0°00'54
min. Earth dist.	-8382 May 22 j 23:12	28°♍07'36	4.08645 AU
direct	-8382 Jul 21 j 10:44	23°♍10'33	
	-8382 Sep 26 j 23:41	0°♎	
evening set	-8382 Nov 21 j 19:03	11°♎59'11	
conjunction	-8382 Dec 04 j 23:34	15°♎05'28	-0°28'20
minimum elong	-8382 Dec 04 j 23:32	15°♎05'27	0°28'25
max. Earth dist.	-8382 Dec 06 j 02:06	15°♎21'07	6.06391 AU
morning rise	-8382 Dec 18 j 07:27	18°♎13'39	
	-8381 Feb 10 j 18:25	0°♏	
retrograde	-8381 Apr 29 j 01:38	8°♏14'06	
min. Earth dist.	-8381 Jun 27 j 11:57	3°♏17'19	4.05420 AU
opposition	-8381 Jun 28 j 09:30	3°♏10'05	-1°22'00
	-8381 Jul 24 j 02:14	30℞♎	
direct	-8381 Aug 25 j 14:56	28°♎15'14	
	-8381 Sep 27 j 01:12	0°♏	
	-8381 Dec 17 j 23:22	15°♏	
evening set	-8381 Dec 27 j 22:40	17°♏18'37	
conjunction	-8380 Jan 10 j 10:18	20°♏28'14	-1°15'10
minimum elong	-8380 Jan 10 j 10:13	20°♏28'11	1°15'32
max. Earth dist.	-8380 Jan 11 j 22:27	20°♏49'27	6.05622 AU
morning rise	-8380 Jan 24 j 01:05	23°♏39'23	
	-8380 Feb 21 j 01:58	0°♐	
retrograde	-8380 Jun 03 j 01:22	13°♐35'04	
opposition	-8380 Aug 01 j 17:53	8°♐29'57	-2°13'02
min. Earth dist.	-8380 Jul 31 j 17:49	8°♐38'10	4.07332 AU
direct	-8380 Sep 28 j 22:40	3°♐31'51	
evening set	-8379 Feb 01 j 21:48	22°♐39'33	
conjunction	-8379 Feb 15 j 14:00	25°♐49'02	-1°34'18
minimum elong	-8379 Feb 15 j 14:00	25°♐49'02	1°34'50
max. Earth dist.	-8379 Feb 17 j 00:15	26°♐08'51	6.09929 AU
morning rise	-8379 Mar 01 j 07:29	28°♐59'05	
	-8379 Mar 05 j 18:02	0°♑	
retrograde	-8379 Jul 07 j 20:13	18°♑19'48	
min. Earth dist.	-8379 Sep 04 j 08:03	13°♑21'53	4.13636 AU
opposition	-8379 Sep 05 j 00:45	13°♑16'10	-2°15'13
direct	-8379 Nov 02 j 23:25	8°♑14'46	
evening set	-8378 Mar 10 j 11:07	27°♑12'57	
	-8378 Mar 22 j 17:56	0°♒	
conjunction	-8378 Mar 24 j 04:38	0°♒19'42	-1°19'40
minimum elong	-8378 Mar 24 j 04:43	0°♒19'45	1°20'11
max. Earth dist.	-8378 Mar 24 j 23:31	0°♒30'25	6.17693 AU
morning rise	-8378 Apr 06 j 21:28	3°♒25'56	
	-8378 Jun 01 j 17:06	15°♒	
retrograde	-8378 Aug 10 j 00:00	21°♒56'15	
opposition	-8378 Oct 08 j 03:37	16°♒55'56	-1°31'26
min. Earth dist.	-8378 Oct 07 j 21:41	16°♒57'56	4.22049 AU
	-8378 Oct 22 j 20:14	15℞♒	

Attention, astronomical year style is used: The year -8378 in astronomical counting style is the year 8379 BCE in historical counting style.

direct	-8378 Dec 07 j 05:43	11°♒52'18	
	-8377 Jan 22 j 01:58	15°♒	
	-8377 Apr 12 j 07:02	0°♓	
evening set	-8377 Apr 14 j 17:02	0°♓32'07	
conjunction	-8377 Apr 28 j 07:35	3°♓34'14	-0°38'51
minimum elong	-8377 Apr 28 j 07:39	3°♓34'16	0°39'10
max. Earth dist.	-8377 Apr 28 j 05:10	3°♓32'53	6.26185 AU
morning rise	-8377 May 11 j 19:41	6°♓34'59	
retrograde	-8377 Sep 11 j 01:11	24°♓19'27	
opposition	-8377 Nov 09 j 09:54	19°♓23'00	-0°20'20
min. Earth dist.	-8377 Nov 09 j 17:59	19°♓20'19	4.29803 AU
direct	-8376 Jan 09 j 18:45	14°♓18'53	
asc. node	-8376 Feb 21 j 04:57	16°♓56'19	
	-8376 May 05 j 03:24	0°♈	
evening set	-8376 May 17 j 08:51	2°♈39'46	
conjunction	-8376 May 30 j 15:57	5°♈36'13	0°13'04
minimum elong	-8376 May 30 j 15:55	5°♈36'13	0°13'04
behind sun begin	-8376 May 30 j 11:06	5°♈33'33	
behind sun end	-8376 May 30 j 20:45	5°♈38'52	
max. Earth dist.	-8376 May 29 j 19:18	5°♈24'47	6.32656 AU
morning rise	-8376 Jun 12 j 19:31	8°♈30'53	
retrograde	-8376 Oct 11 j 09:48	25°♈48'06	
opposition	-8376 Dec 10 j 08:01	20°♈54'46	0°54'52
min. Earth dist.	-8376 Dec 11 j 02:08	20°♈48'53	4.34558 AU
direct	-8375 Feb 10 j 13:27	15°♈51'50	
	-8375 May 31 j 04:39	0°♉	
evening set	-8375 Jun 18 j 15:47	3°♉59'37	
max. Earth dist.	-8375 Jun 30 j 05:15	6°♉33'12	6.35273 AU
conjunction	-8375 Jul 01 j 12:57	6°♉50'49	1°00'16
minimum elong	-8375 Jul 01 j 12:53	6°♉50'46	1°00'32
morning rise	-8375 Jul 14 j 06:51	9°♉40'24	
	-8375 Aug 08 j 00:54	15°♉	
retrograde	-8375 Nov 11 j 23:52	26°♉54'09	
opposition	-8374 Jan 11 j 12:15	22°♉02'30	1°53'29
min. Earth dist.	-8374 Jan 12 j 12:43	21°♉54'42	4.34979 AU
direct	-8374 Mar 15 j 02:13	17°♉02'01	
	-8374 Jun 26 j 15:02	0°♊	
evening set	-8374 Jul 20 j 01:33	5°♊04'57	
max. Earth dist.	-8374 Jul 31 j 03:48	7°♊33'50	6.33320 AU
conjunction	-8374 Aug 01 j 14:25	7°♊53'15	1°29'57
minimum elong	-8374 Aug 01 j 14:22	7°♊53'13	1°30'26
morning rise	-8374 Aug 14 j 01:15	10°♊40'35	
retrograde	-8374 Dec 14 j 09:00	28°♊13'51	
opposition	-8373 Feb 13 j 10:54	23°♊21'57	2°19'49
min. Earth dist.	-8373 Feb 14 j 09:36	23°♊14'45	4.30883 AU
direct	-8373 Apr 16 j 15:53	18°♊24'24	
	-8373 Jul 21 j 09:01	0°♋	
evening set	-8373 Aug 20 j 05:50	6°♋30'47	
conjunction	-8373 Sep 01 j 15:34	9°♋19'57	1°33'36
minimum elong	-8373 Sep 01 j 15:35	9°♋19'58	1°34'09
max. Earth dist.	-8373 Aug 31 j 13:49	9°♋05'17	6.27345 AU
morning rise	-8373 Sep 14 j 00:44	12°♋09'02	
	-8372 Jan 02 j 11:23	0°♌	
retrograde	-8372 Jan 17 j 02:34	0°♌19'46	
	-8372 Jan 31 j 17:38	30℞♋	
opposition	-8372 Mar 18 j 11:40	25°♋25'50	2°04'42
min. Earth dist.	-8372 Mar 19 j 02:09	25°♋21'14	4.23410 AU
direct	-8372 May 18 j 18:36	20°♋31'05	
	-8372 Aug 10 j 12:13	0°♌	
evening set	-8372 Sep 19 j 22:56	8°♌47'54	
conjunction	-8372 Oct 02 j 11:43	11°♌41'50	1°08'38
minimum elong	-8372 Oct 02 j 11:47	11°♌41'52	1°09'06
max. Earth dist.	-8372 Oct 02 j 00:04	11°♌35'05	6.19041 AU
morning rise	-8372 Oct 15 j 02:08	14°♌36'43	
	-8372 Oct 16 j 18:39	15°♌	
	-8371 Jan 01 j 18:59	0°♍	
retrograde	-8371 Feb 20 j 06:13	3°♍33'59	
	-8371 Apr 11 j 15:58	30℞♌	
opposition	-8371 Apr 22 j 14:13	28°♌36'30	1°08'54
min. Earth dist.	-8371 Apr 22 j 14:33	28°♌36'24	4.14788 AU
direct	-8371 Jun 21 j 14:29	23°♌43'22	
	-8371 Aug 25 j 21:40	0°♍	
evening set	-8371 Oct 22 j 22:35	12°♍16'15	
conjunction	-8371 Nov 04 j 19:25	15°♍17'10	0°20'33
minimum elong	-8371 Nov 04 j 19:27	15°♍17'11	0°20'46
max. Earth dist.	-8371 Nov 05 j 05:09	15°♍22'52	6.10960 AU
morning rise	-8371 Nov 17 j 19:02	18°♍19'44	
	-8370 Jan 11 j 02:44	0°♎	
retrograde	-8370 Mar 28 j 12:53	7°♎59'24	
desc. node	-8370 Mar 30 j 11:38	7°♎59'02	
opposition	-8370 May 28 j 10:15	2°♎58'02	-0°12'42
min. Earth dist.	-8370 May 27 j 21:14	3°♎02'20	4.07890 AU
	-8370 Jun 21 j 15:39	30℞♍	
direct	-8370 Jul 26 j 06:36	28°♍04'49	
	-8370 Aug 29 j 13:24	0°♎	
evening set	-8370 Nov 26 j 16:30	16°♎55'58	
conjunction	-8370 Dec 09 j 22:00	20°♎02'57	-0°35'50
minimum elong	-8370 Dec 09 j 21:57	20°♎02'55	0°35'58
max. Earth dist.	-8370 Dec 11 j 00:52	20°♎18'47	6.05869 AU
morning rise	-8370 Dec 23 j 07:13	23°♎11'52	
	-8369 Jan 22 j 07:15	0°♏	
retrograde	-8369 May 04 j 01:30	13°♏14'07	
min. Earth dist.	-8369 Jul 02 j 08:50	8°♏17'31	4.05198 AU
opposition	-8369 Jul 03 j 07:48	8°♏09'46	-1°31'27
direct	-8369 Aug 30 j 11:25	3°♏14'28	
	-8369 Nov 30 j 12:03	15°♏	
evening set	-8368 Jan 02 j 00:50	22°♏19'55	
conjunction	-8368 Jan 15 j 13:26	25°♏29'51	-1°19'44
minimum elong	-8368 Jan 15 j 13:21	25°♏29'48	1°20'09
max. Earth dist.	-8368 Jan 17 j 02:45	25°♏51'44	6.05707 AU
morning rise	-8368 Jan 29 j 04:43	28°♏41'09	
	-8368 Feb 03 j 20:57	0°♐	
retrograde	-8368 Jun 08 j 00:46	18°♐34'36	
opposition	-8368 Aug 06 j 14:03	13°♐29'30	-2°16'26
min. Earth dist.	-8368 Aug 05 j 15:26	13°♐37'14	4.07714 AU
direct	-8368 Oct 03 j 20:36	8°♐30'55	
evening set	-8367 Feb 07 j 01:22	27°♐39'05	
	-8367 Feb 17 j 06:01	0°♑	
conjunction	-8367 Feb 20 j 18:01	0°♑48'30	-1°34'13
minimum elong	-8367 Feb 20 j 18:02	0°♑48'30	1°34'45
max. Earth dist.	-8367 Feb 22 j 02:49	1°♑07'26	6.10564 AU
morning rise	-8367 Mar 06 j 11:47	3°♑58'20	
retrograde	-8367 Jul 12 j 13:16	23°♑13'34	
opposition	-8367 Sep 09 j 17:51	18°♑10'18	-2°11'32
min. Earth dist.	-8367 Sep 09 j 01:26	18°♑15'54	4.14466 AU
direct	-8367 Nov 07 j 18:37	13°♑08'31	
	-8366 Mar 06 j 03:54	0°♒	
evening set	-8366 Mar 15 j 12:15	2°♒05'28	
conjunction	-8366 Mar 29 j 05:38	5°♒11'47	-1°15'11
minimum elong	-8366 Mar 29 j 05:43	5°♒11'50	1°15'39
max. Earth dist.	-8366 Mar 29 j 21:32	5°♒20'48	6.18677 AU
morning rise	-8366 Apr 11 j 22:11	8°♒17'29	
	-8366 May 12 j 17:56	15°♒	

Attention, astronomical year style is used: The year -8366 in astronomical counting style is the year 8367 BCE in historical counting style.

retrograde	-8366 Aug 14 j 15:23	26°♒41'31	
opposition	-8366 Oct 12 j 18:17	21°♒41'44	-1°22'31
min. Earth dist.	-8366 Oct 12 j 14:40	21°♒42'58	4.23087 AU
direct	-8366 Dec 12 j 01:34	16°♒37'59	
	-8365 Mar 26 j 06:55	0°♓	
evening set	-8365 Apr 19 j 13:32	5°♓15'19	
conjunction	-8365 May 03 j 03:26	8°♓16'44	-0°31'49
minimum elong	-8365 May 03 j 03:29	8°♓16'46	0°32'05
max. Earth dist.	-8365 May 02 j 23:51	8°♓14'44	6.27241 AU
morning rise	-8365 May 16 j 14:27	11°♓16'38	
retrograde	-8365 Sep 15 j 10:59	28°♓55'50	
opposition	-8365 Nov 13 j 22:27	23°♓59'52	-0°09'28
min. Earth dist.	-8365 Nov 14 j 06:42	23°♓57'09	4.30814 AU
asc. node	-8364 Jan 01 j 02:34	19°♓12'30	
direct	-8364 Jan 14 j 10:02	18°♓55'53	
	-8364 Apr 17 j 17:51	0°♈	
evening set	-8364 May 22 j 00:08	7°♈13'49	
max. Earth dist.	-8364 Jun 03 j 07:23	9°♈56'55	6.33568 AU
conjunction	-8364 Jun 04 j 05:46	10°♈09'19	0°20'18
minimum elong	-8364 Jun 04 j 05:44	10°♈09'18	0°20'20
morning rise	-8364 Jun 17 j 08:00	13°♈03'03	
	-8364 Oct 02 j 12:04	0°♉	
retrograde	-8364 Oct 15 j 20:15	0°♉17'09	
	-8364 Oct 29 j 03:25	30°℞♈	
opposition	-8364 Dec 14 j 19:56	25°♈24'10	1°04'25
min. Earth dist.	-8364 Dec 15 j 15:32	25°♈17'49	4.35308 AU
direct	-8363 Feb 15 j 04:54	20°♈21'33	
	-8363 May 13 j 14:04	0°♉	
evening set	-8363 Jun 23 j 01:51	8°♉26'28	
conjunction	-8363 Jul 05 j 21:41	11°♉16'52	1°05'38
minimum elong	-8363 Jul 05 j 21:37	11°♉16'49	1°05'57
max. Earth dist.	-8363 Jul 04 j 13:19	10°♉58'54	6.35784 AU
morning rise	-8363 Jul 18 j 14:18	14°♉05'43	
	-8363 Jul 22 j 16:56	15°♉	
	-8363 Oct 18 j 04:21	0°♊	
retrograde	-8363 Nov 16 j 08:38	1°♊19'07	
	-8363 Dec 15 j 17:58	30°℞♉	
opposition	-8362 Jan 16 j 00:22	26°♉27'30	1°59'11
min. Earth dist.	-8362 Jan 17 j 00:13	26°♉19'54	4.35232 AU
direct	-8362 Mar 19 j 13:43	21°♉27'23	
	-8362 Jun 08 j 19:24	0°♊	
evening set	-8362 Jul 24 j 08:18	9°♊28'23	
max. Earth dist.	-8362 Aug 04 j 11:01	11°♊57'36	6.33283 AU
conjunction	-8362 Aug 05 j 20:18	12°♊16'17	1°32'03
minimum elong	-8362 Aug 05 j 20:15	12°♊16'16	1°32'32
morning rise	-8362 Aug 18 j 06:20	15°♊03'19	
	-8362 Nov 06 j 15:52	0°♋	
retrograde	-8362 Dec 18 j 21:06	2°♋38'54	
	-8361 Jan 30 j 19:10	30°℞♊	
opposition	-8361 Feb 18 j 00:22	27°♊46'54	2°20'09
min. Earth dist.	-8361 Feb 18 j 23:14	27°♊39'39	4.30545 AU
direct	-8361 Apr 21 j 04:22	22°♊49'46	
	-8361 Jul 02 j 20:33	0°♋	
evening set	-8361 Aug 24 j 11:43	10°♋55'34	
conjunction	-8361 Sep 05 j 21:19	13°♋44'57	1°31'49
minimum elong	-8361 Sep 05 j 21:22	13°♋44'58	1°32'22
max. Earth dist.	-8361 Sep 04 j 19:15	13°♋30'04	6.26724 AU
morning rise	-8361 Sep 18 j 06:55	16°♋34'26	
	-8361 Nov 24 j 11:50	0°♌	
retrograde	-8360 Jan 21 j 17:19	4°♌49'54	
	-8360 Mar 22 j 13:25	30°℞♋	
opposition	-8360 Mar 23 j 03:19	29°♋55'34	1°59'19
min. Earth dist.	-8360 Mar 23 j 16:11	29°♋51'28	4.22530 AU
direct	-8360 May 23 j 05:57	25°♋01'04	
	-8360 Jul 20 j 19:11	0°♌	
evening set	-8360 Sep 24 j 06:49	13°♌19'08	
	-8360 Oct 01 j 13:16	15°♌	
conjunction	-8360 Oct 06 j 20:35	16°♌13'54	1°03'17
minimum elong	-8360 Oct 06 j 20:39	16°♌13'57	1°03'42
max. Earth dist.	-8360 Oct 06 j 11:54	16°♌08'52	6.17998 AU
morning rise	-8360 Oct 19 j 11:54	19°♌09'41	
	-8360 Dec 09 j 03:39	0°♍	
retrograde	-8359 Feb 25 j 02:21	8°♍13'09	
opposition	-8359 Apr 27 j 08:42	3°♍15'14	0°58'57
min. Earth dist.	-8359 Apr 27 j 08:31	3°♍15'18	4.13642 AU
	-8359 May 24 j 22:41	30°℞♌	
direct	-8359 Jun 26 j 05:20	28°♌22'14	
	-8359 Jul 28 j 03:36	0°♍	
evening set	-8359 Oct 27 j 11:59	16°♍58'07	
conjunction	-8359 Nov 09 j 09:52	20°♍00'03	0°13'05
minimum elong	-8359 Nov 09 j 09:53	20°♍00'03	0°13'15
behind sun begin	-8359 Nov 09 j 05:05	19°♍57'14	
behind sun end	-8359 Nov 09 j 14:42	20°♍02'52	
max. Earth dist.	-8359 Nov 09 j 20:02	20°♍06'01	6.09822 AU
morning rise	-8359 Nov 22 j 11:02	23°♍03'46	
	-8359 Dec 23 j 04:22	0°♎	
desc. node	-8358 Feb 09 j 17:48	8°♎53'34	
retrograde	-8358 Apr 02 j 10:31	12°♎49'13	
opposition	-8358 Jun 02 j 06:35	7°♎47'26	-0°24'10
min. Earth dist.	-8358 Jun 01 j 15:30	7°♎52'25	4.06874 AU
direct	-8358 Jul 30 j 22:54	2°♎54'03	
evening set	-8358 Dec 01 j 12:54	21°♎49'16	
conjunction	-8358 Dec 14 j 19:43	24°♎57'09	-0°42'55
minimum elong	-8358 Dec 14 j 19:39	24°♎57'06	0°43'05
max. Earth dist.	-8358 Dec 16 j 01:15	25°♎14'35	6.05079 AU
morning rise	-8358 Dec 28 j 05:54	28°♎06'52	
	-8357 Jan 05 j 08:20	0°♏	
	-8357 Mar 24 j 03:08	15°♏	
retrograde	-8357 May 09 j 02:46	18°♏12'01	
	-8357 Jun 23 j 23:36	15°℞♏	
min. Earth dist.	-8357 Jul 07 j 06:20	13°♏15'05	4.04732 AU
opposition	-8357 Jul 08 j 04:53	13°♏07'28	-1°40'05
direct	-8357 Sep 04 j 07:52	8°♏11'48	
	-8357 Nov 10 j 09:34	15°♏	
evening set	-8356 Jan 07 j 02:57	27°♏20'29	
	-8356 Jan 18 j 11:45	0°♐	
conjunction	-8356 Jan 20 j 16:20	0°♐30'48	-1°23'38
minimum elong	-8356 Jan 20 j 16:15	0°♐30'46	1°24'05
max. Earth dist.	-8356 Jan 22 j 05:59	0°♐52'52	6.05599 AU
morning rise	-8356 Feb 03 j 08:23	3°♐42'26	
retrograde	-8356 Jun 12 j 21:48	23°♐34'03	
min. Earth dist.	-8356 Aug 10 j 10:23	18°♐37'03	4.08005 AU
opposition	-8356 Aug 11 j 09:42	18°♐29'04	-2°18'44
direct	-8356 Oct 08 j 16:05	13°♐30'03	
	-8355 Jan 31 j 13:12	0°♑	
evening set	-8355 Feb 12 j 04:58	2°♑38'56	
conjunction	-8355 Feb 25 j 21:56	5°♑48'13	-1°33'23
minimum elong	-8355 Feb 25 j 21:57	5°♑48'14	1°33'57
max. Earth dist.	-8355 Feb 27 j 04:53	6°♑06'04	6.11223 AU
morning rise	-8355 Mar 11 j 15:51	8°♑57'48	
retrograde	-8355 Jul 17 j 07:27	28°♑07'17	
opposition	-8355 Sep 14 j 10:44	23°♑04'21	-2°06'53
min. Earth dist.	-8355 Sep 13 j 20:05	23°♑09'21	4.15405 AU
direct	-8355 Nov 12 j 16:14	18°♑02'10	

Attention, astronomical year style is used: The year -8354 in astronomical counting style is the year 8355 BCE in historical counting style.

	-8354 Feb 16 j 13:21	0°♒		
evening set	-8354 Mar 20 j 12:45	6°♒57'07		
conjunction	-8354 Apr 03 j 06:05	10°♒02'55	-1°10'11	
minimum elong	-8354 Apr 03 j 06:10	10°♒02'58	1°10'38	
max. Earth dist.	-8354 Apr 03 j 21:11	10°♒11'27	6.19826 AU	
morning rise	-8354 Apr 16 j 22:00	13°♒07'53		
	-8354 Apr 25 j 07:06	15°♒		
	-8354 Jul 20 j 13:33	0°♓		
retrograde	-8354 Aug 19 j 03:25	1°♓24'46		
	-8354 Sep 17 j 13:21	30°℞♒		
opposition	-8354 Oct 17 j 07:38	26°♒25'28	-1°13'06	
min. Earth dist.	-8354 Oct 17 j 04:36	26°♒26'29	4.24308 AU	
direct	-8354 Dec 16 j 18:31	21°♒21'31		
	-8353 Mar 07 j 11:24	0°♓		
evening set	-8353 Apr 24 j 08:33	9°♓55'35		
conjunction	-8353 May 07 j 21:21	12°♓56'07	-0°24'39	
minimum elong	-8353 May 07 j 21:24	12°♓56'08	0°24'52	
max. Earth dist.	-8353 May 07 j 13:55	12°♓51'59	6.28413 AU	
morning rise	-8353 May 21 j 07:26	15°♓55'07		
	-8353 Aug 03 j 03:26	0°♈		
retrograde	-8353 Sep 19 j 21:43	3°♈28'54		
	-8353 Nov 07 j 06:41	30°℞♓		
asc. node	-8353 Nov 11 j 11:44	29°♓27'44		
opposition	-8353 Nov 18 j 09:48	28°♓33'21	0°01'21	
min. Earth dist.	-8353 Nov 18 j 20:35	28°♓29'47	4.31811 AU	
direct	-8352 Jan 19 j 02:12	23°♓29'21		
	-8352 Mar 28 j 17:39	0°♈		
evening set	-8352 May 26 j 13:15	11°♈44'23		
conjunction	-8352 Jun 08 j 17:40	14°♈39'02	0°27'22	
minimum elong	-8352 Jun 08 j 17:37	14°♈39'01	0°27'26	
max. Earth dist.	-8352 Jun 07 j 18:16	14°♈26'06	6.34286 AU	
morning rise	-8352 Jun 21 j 18:22	17°♈31'53		
	-8352 Aug 24 j 11:32	0°♉		
retrograde	-8352 Oct 20 j 03:46	4°♉43'52		
	-8352 Dec 18 j 03:11	30°℞♈		
opposition	-8352 Dec 19 j 06:39	29°♈51'08	1°13'35	
min. Earth dist.	-8352 Dec 20 j 02:30	29°♈44'43	4.35708 AU	
direct	-8351 Feb 19 j 16:09	24°♈48'45		
	-8351 Apr 22 j 12:05	0°♉		
evening set	-8351 Jun 27 j 11:14	12°♉52'11		
	-8351 Jul 07 j 02:08	15°♉		
max. Earth dist.	-8351 Jul 08 j 19:52	15°♉23'12	6.35811 AU	
conjunction	-8351 Jul 10 j 05:38	15°♉41'58	1°10'40	
minimum elong	-8351 Jul 10 j 05:34	15°♉41'55	1°11'01	
morning rise	-8351 Jul 22 j 21:07	18°♉30'18		
	-8351 Sep 18 j 07:32	0°♊		
retrograde	-8351 Nov 20 j 20:29	5°♊45'07		
opposition	-8350 Jan 20 j 12:53	0°♊53'35	2°04'22	
min. Earth dist.	-8350 Jan 21 j 14:11	0°♊45'32	4.34889 AU	
	-8350 Jan 27 j 13:57	30°℞♉		
direct	-8350 Mar 24 j 02:56	25°♉53'48		
	-8350 May 17 j 08:11	0°♊		
evening set	-8350 Jul 28 j 15:55	13°♊54'53		
max. Earth dist.	-8350 Aug 08 j 17:48	16°♊23'56	6.32576 AU	
conjunction	-8350 Aug 10 j 03:17	16°♊42'45	1°33'42	
minimum elong	-8350 Aug 10 j 03:15	16°♊42'44	1°34'13	
morning rise	-8350 Aug 22 j 12:55	19°♊29'53		
	-8350 Oct 12 j 09:22	0°♋		
retrograde	-8350 Dec 23 j 10:59	7°♋10'06		
opposition	-8349 Feb 22 j 16:15	2°♋17'50	2°19'49	
min. Earth dist.	-8349 Feb 23 j 13:37	2°♋11'03	4.29530 AU	
	-8349 Mar 13 j 13:03	30°℞♊		
direct	-8349 Apr 25 j 16:17	27°♊21'04		
	-8349 Jun 07 j 05:46	0°♋		
evening set	-8349 Aug 28 j 20:30	15°♋28'27		
max. Earth dist.	-8349 Sep 09 j 06:56	18°♋05'00	6.25491 AU	
conjunction	-8349 Sep 10 j 06:23	18°♋18'26	1°29'29	
minimum elong	-8349 Sep 10 j 06:26	18°♋18'27	1°30'01	
morning rise	-8349 Sep 22 j 16:19	21°♋08'37		
	-8349 Nov 02 j 19:56	0°♌		
retrograde	-8348 Jan 26 j 14:40	9°♌30'53		
opposition	-8348 Mar 27 j 23:38	4°♌36'09	1°53'03	
min. Earth dist.	-8348 Mar 28 j 11:54	4°♌32'15	4.21147 AU	
	-8348 May 14 j 03:05	30°℞♋		
direct	-8348 May 27 j 23:14	29°♋41'58		
	-8348 Jun 10 j 17:49	0°♌		
	-8348 Sep 15 j 11:46	15°♌		
evening set	-8348 Sep 28 j 19:54	18°♌02'48		
conjunction	-8348 Oct 11 j 10:33	20°♌58'35	0°57'18	
minimum elong	-8348 Oct 11 j 10:38	20°♌58'37	0°57'41	
max. Earth dist.	-8348 Oct 11 j 03:17	20°♌54'20	6.16603 AU	
morning rise	-8348 Oct 24 j 03:16	23°♌55'33		
	-8348 Nov 20 j 03:59	0°♍		
retrograde	-8347 Mar 02 j 02:11	13°♍06'07		
opposition	-8347 May 02 j 08:27	8°♍07'40	0°48'07	
min. Earth dist.	-8347 May 02 j 05:12	8°♍08'44	4.12361 AU	
direct	-8347 Jun 30 j 23:44	3°♍14'46		
evening set	-8347 Nov 01 j 07:21	21°♍54'00		
conjunction	-8347 Nov 14 j 06:40	24°♍57'00	0°05'09	
minimum elong	-8347 Nov 14 j 06:40	24°♍57'00	0°05'16	
behind sun begin	-8347 Nov 13 j 22:48	24°♍52'23		
behind sun end	-8347 Nov 14 j 14:33	25°♍01'37		
max. Earth dist.	-8347 Nov 14 j 21:05	25°♍05'28	6.08802 AU	
morning rise	-8347 Nov 27 j 09:06	28°♍01'46		
	-8347 Dec 05 j 20:44	0°♎		
desc. node	-8347 Dec 20 j 04:28	3°♎14'45		
retrograde	-8346 Apr 07 j 15:53	17°♎52'00		
opposition	-8346 Jun 07 j 08:15	12°♎49'46	-0°36'01	
min. Earth dist.	-8346 Jun 06 j 16:11	12°♎55'07	4.06239 AU	
direct	-8346 Aug 04 j 22:33	7°♎56'14		
evening set	-8346 Dec 06 j 14:27	26°♎53'49		
conjunction	-8346 Dec 19 j 22:17	0°♏02'13	-0°50'00	
minimum elong	-8346 Dec 19 j 22:12	0°♏02'10	0°50'12	
	-8346 Dec 19 j 18:32	0°♏		
max. Earth dist.	-8346 Dec 21 j 06:06	0°♏20'59	6.04900 AU	
morning rise	-8345 Jan 02 j 09:36	3°♏12'26		
	-8345 Feb 25 j 21:06	15°♏		
retrograde	-8345 May 14 j 03:59	23°♏17'12		
min. Earth dist.	-8345 Jul 12 j 04:25	18°♏20'41	4.05083 AU	
opposition	-8345 Jul 13 j 04:46	18°♏12'26	-1°48'13	
	-8345 Aug 08 j 01:40	15°℞♏		
direct	-8345 Sep 09 j 06:04	13°♏16'24		
	-8345 Oct 11 j 12:22	15°♏		
	-8344 Jan 01 j 19:58	0°♐		
evening set	-8344 Jan 12 j 07:22	2°♐24'59		
conjunction	-8344 Jan 25 j 21:18	5°♐35'10	-1°27'01	
minimum elong	-8344 Jan 25 j 21:14	5°♐35'07	1°27'29	
max. Earth dist.	-8344 Jan 27 j 10:48	5°♐57'05	6.06424 AU	
morning rise	-8344 Feb 08 j 13:44	8°♐46'31		
retrograde	-8344 Jun 17 j 18:14	28°♐32'16		
min. Earth dist.	-8344 Aug 15 j 06:50	23°♐35'00	4.09218 AU	
opposition	-8344 Aug 16 j 05:01	23°♐27'24	-2°19'59	
direct	-8344 Oct 13 j 15:13	18°♐27'53		
	-8343 Jan 13 j 22:50	0°♑		

Attention, astronomical year style is used: The year -8343 in astronomical counting style is the year 8344 BCE in historical counting style.

evening set	-8343 Feb 17 j 06:56	7°♓33'57		
conjunction	-8343 Mar 03 j 00:14	10°♓42'41	-1°31'58	
minimum elong	-8343 Mar 03 j 00:16	10°♓42'42	1°32'31	
max. Earth dist.	-8343 Mar 04 j 06:46	11°♓00'13	6.12717 AU	
morning rise	-8343 Mar 16 j 17:54	13°♓51'30		
	-8343 Jun 09 j 00:56	0°♒		
retrograde	-8343 Jul 21 j 21:16	2°♒52'14		
	-8343 Sep 02 j 13:00	30°℞♓		
min. Earth dist.	-8343 Sep 18 j 10:56	27°♓54'23	4.17017 AU	
opposition	-8343 Sep 19 j 00:29	27°♓49'46	-2°01'28	
direct	-8343 Nov 17 j 09:36	22°♓47'17		
	-8342 Jan 28 j 00:18	0°♒		
evening set	-8342 Mar 25 j 08:56	11°♒38'02		
conjunction	-8342 Apr 08 j 01:44	14°♒42'59	-1°04'55	
minimum elong	-8342 Apr 08 j 01:49	14°♒43'02	1°05'21	
max. Earth dist.	-8342 Apr 08 j 11:59	14°♒48'46	6.21414 AU	
	-8342 Apr 09 j 07:54	15°♒		
morning rise	-8342 Apr 21 j 17:12	17°♒47'04		
	-8342 Jun 20 j 21:55	0°♓		
retrograde	-8342 Aug 23 j 12:25	5°♓56'12		
opposition	-8342 Oct 21 j 17:06	0°♓57'25	-1°03'38	
min. Earth dist.	-8342 Oct 21 j 16:54	0°♓57'29	4.25711 AU	
	-8342 Oct 28 j 21:10	30°℞♒		
direct	-8342 Dec 21 j 09:10	25°♒53'19		
	-8341 Feb 12 j 20:10	0°♓		
evening set	-8341 Apr 28 j 22:17	14°♓23'50		
conjunction	-8341 May 12 j 10:18	17°♓23'33	-0°17'38	
minimum elong	-8341 May 12 j 10:20	17°♓23'34	0°17'48	
max. Earth dist.	-8341 May 12 j 00:50	17°♓18'17	6.29533 AU	
morning rise	-8341 May 25 j 19:05	20°♓21'37		
	-8341 Jul 11 j 09:37	0°♈		
asc. node	-8341 Sep 23 j 13:37	7°♈50'55		
retrograde	-8341 Sep 24 j 02:54	7°♈50'57		
opposition	-8341 Nov 22 j 17:03	2°♈55'55	0°11'43	
min. Earth dist.	-8341 Nov 23 j 05:15	2°♈51'54	4.32564 AU	
	-8341 Dec 16 j 13:56	30°℞♓		
direct	-8340 Jan 23 j 11:27	27°♓52'05		
	-8340 Mar 01 j 18:32	0°♈		
evening set	-8340 May 30 j 22:30	16°♈05'27		
max. Earth dist.	-8340 Jun 11 j 22:03	18°♈44'14	6.34597 AU	
conjunction	-8340 Jun 13 j 01:27	18°♈59'24	0°34'00	
minimum elong	-8340 Jun 13 j 01:24	18°♈59'22	0°34'07	
morning rise	-8340 Jun 26 j 01:03	21°♈51'37		
	-8340 Aug 03 j 22:27	0°♉		
retrograde	-8340 Oct 24 j 11:56	9°♉03'24		
opposition	-8340 Dec 23 j 15:04	4°♉10'59	1°22'04	
min. Earth dist.	-8340 Dec 24 j 13:19	4°♉03'48	4.35577 AU	
	-8339 Jan 31 j 05:23	30°℞♈		
direct	-8339 Feb 24 j 02:21	29°♈08'53		
	-8339 Mar 20 j 02:16	0°♉		
	-8339 Jun 21 j 15:24	15°♉		
evening set	-8339 Jul 01 j 17:56	17°♉12'45		
max. Earth dist.	-8339 Jul 13 j 01:29	19°♉43'26	6.35227 AU	
conjunction	-8339 Jul 14 j 11:24	20°♉02'19	1°15'10	
minimum elong	-8339 Jul 14 j 11:19	20°♉02'16	1°15'32	
morning rise	-8339 Jul 27 j 01:47	22°♉50'27		
	-8339 Aug 29 j 18:09	0°♊		
retrograde	-8339 Nov 25 j 06:06	10°♊09'05		
opposition	-8338 Jan 25 j 00:46	5°♊17'35	2°08'46	
min. Earth dist.	-8338 Jan 26 j 01:19	5°♊09'46	4.33922 AU	
direct	-8338 Mar 28 j 11:58	0°♊18'15		
evening set	-8338 Aug 01 j 23:15	18°♊21'31		

max. Earth dist.	-8338 Aug 13 j 01:10	20°♊51'06	6.31291 AU	
conjunction	-8338 Aug 14 j 10:01	21°♊09'39	1°34'46	
minimum elong	-8338 Aug 14 j 09:59	21°♊09'38	1°35'17	
morning rise	-8338 Aug 26 j 19:24	23°♊57'11		
	-8338 Sep 23 j 14:15	0°♋		
retrograde	-8338 Dec 28 j 04:52	11°♋44'10		
opposition	-8337 Feb 27 j 09:30	6°♋51'42	2°18'36	
min. Earth dist.	-8337 Feb 28 j 06:44	6°♋44'58	4.28016 AU	
direct	-8337 Apr 30 j 07:15	1°♋55'22		
evening set	-8337 Sep 02 j 06:46	20°♋05'53		
conjunction	-8337 Sep 14 j 17:05	22°♋56'42	1°26'30	
minimum elong	-8337 Sep 14 j 17:09	22°♋56'44	1°27'01	
max. Earth dist.	-8337 Sep 13 j 19:32	22°♋44'20	6.23885 AU	
morning rise	-8337 Sep 27 j 03:45	25°♋47'52		
	-8337 Oct 15 j 21:30	0°♌		
retrograde	-8336 Jan 31 j 11:51	14°♌18'05		
opposition	-8336 Apr 01 j 22:01	9°♌22'53	1°45'52	
min. Earth dist.	-8336 Apr 02 j 06:55	9°♌20'02	4.19576 AU	
direct	-8336 Jun 01 j 15:58	4°♌29'00		
	-8336 Aug 28 j 20:51	15°♌		
evening set	-8336 Oct 03 j 11:16	22°♌53'03		
conjunction	-8336 Oct 16 j 03:03	25°♌49'55	0°50'46	
minimum elong	-8336 Oct 16 j 03:07	25°♌49'57	0°51'08	
max. Earth dist.	-8336 Oct 16 j 00:00	25°♌48'08	6.15216 AU	
morning rise	-8336 Oct 28 j 20:58	28°♌48'04		
	-8336 Nov 03 j 01:38	0°♍		
retrograde	-8335 Mar 07 j 06:44	18°♍05'27		
opposition	-8335 May 07 j 10:37	13°♍06'25	0°36'40	
min. Earth dist.	-8335 May 07 j 05:37	13°♍08'03	4.11255 AU	
direct	-8335 Jul 05 j 23:02	8°♍13'31		
desc. node	-8335 Oct 28 j 18:51	24°♍57'41		
evening set	-8335 Nov 06 j 04:45	26°♍55'11		
conjunction	-8335 Nov 19 j 05:17	29°♍59'02	-0°03'06	
minimum elong	-8335 Nov 19 j 05:16	29°♍59'01	0°03'03	
behind sun begin	-8335 Nov 18 j 21:08	29°♍54'15		
behind sun end	-8335 Nov 19 j 13:23	0°♎03'47		
	-8335 Nov 19 j 07:00	0°♎		
max. Earth dist.	-8335 Nov 19 j 22:52	0°♎09'23	6.08068 AU	
morning rise	-8335 Dec 02 j 09:08	3°♎04'43		
retrograde	-8334 Apr 12 j 19:08	22°♎58'02		
opposition	-8334 Jun 12 j 10:24	17°♎55'17	-0°47'43	
min. Earth dist.	-8334 Jun 11 j 15:47	18°♎01'29	4.05960 AU	
direct	-8334 Aug 09 j 21:08	13°♎01'29		
	-8334 Dec 03 j 02:30	0°♏		
evening set	-8334 Dec 11 j 16:59	2°♏00'12		
conjunction	-8334 Dec 25 j 01:42	5°♏08'53	-0°56'45	
minimum elong	-8334 Dec 25 j 01:37	5°♏08'51	0°57'01	
max. Earth dist.	-8334 Dec 26 j 10:58	5°♏28'30	6.05050 AU	
morning rise	-8333 Jan 07 j 13:52	8°♏19'22		
	-8333 Feb 06 j 00:43	15°♏		
retrograde	-8333 May 19 j 04:46	28°♏22'17		
min. Earth dist.	-8333 Jul 17 j 03:47	23°♏25'31	4.05644 AU	
opposition	-8333 Jul 18 j 04:01	23°♏17'17	-1°55'33	
direct	-8333 Sep 14 j 06:35	18°♏20'45		
	-8333 Dec 15 j 01:54	0°♐		
evening set	-8332 Jan 17 j 11:22	7°♐28'40		
conjunction	-8332 Jan 31 j 01:59	10°♐38'41	-1°29'47	
minimum elong	-8332 Jan 31 j 01:56	10°♐38'39	1°30'17	
max. Earth dist.	-8332 Feb 01 j 16:31	11°♐01'08	6.07329 AU	
morning rise	-8332 Feb 13 j 18:39	13°♐49'41		
	-8332 May 05 j 22:01	0°♑		

Attention, astronomical year style is used: The year -8332 in astronomical counting style is the year 8333 BCE in historical counting style.

retrograde	-8332 Jun 22 j 14:42	3°♑29'19	
	-8332 Aug 09 j 04:13	30°℞♐	
opposition	-8332 Aug 20 j 23:40	28°♐24'41	-2°20'20
min. Earth dist.	-8332 Aug 20 j 02:19	28°♐31'59	4.10387 AU
direct	-8332 Oct 18 j 12:11	23°♐24'42	
	-8332 Dec 24 j 10:45	0°♑	
evening set	-8331 Feb 22 j 08:37	12°♑28'20	
conjunction	-8331 Mar 08 j 01:52	15°♑36'30	-1°29'57
minimum elong	-8331 Mar 08 j 01:55	15°♑36'32	1°30'29
max. Earth dist.	-8331 Mar 09 j 04:30	15°♑51'45	6.14037 AU
morning rise	-8331 Mar 21 j 19:34	18°♑44'41	
	-8331 May 14 j 07:47	0°♒	
retrograde	-8331 Jul 26 j 10:58	7°♒37'40	
opposition	-8331 Sep 23 j 14:25	2°♒35'38	-1°55'22
min. Earth dist.	-8331 Sep 23 j 02:50	2°♒39'34	4.18360 AU
	-8331 Oct 13 j 16:39	30°℞♑	
direct	-8331 Nov 22 j 04:03	27°♑32'46	
	-8330 Jan 01 j 01:59	0°♒	
	-8330 Mar 24 j 04:57	15°♒	
evening set	-8330 Mar 30 j 05:36	16°♒20'25	
conjunction	-8330 Apr 12 j 22:07	19°♒24'43	-0°59'14
minimum elong	-8330 Apr 12 j 22:12	19°♒24'46	0°59'39
max. Earth dist.	-8330 Apr 13 j 06:21	19°♒29'20	6.22705 AU
morning rise	-8330 Apr 26 j 12:45	22°♒27'56	
	-8330 May 31 j 16:31	0°♓	
retrograde	-8330 Aug 27 j 22:21	10°♓30'25	
opposition	-8330 Oct 26 j 03:41	5°♓32'12	-0°53'44
min. Earth dist.	-8330 Oct 26 j 05:25	5°♓31'38	4.26833 AU
direct	-8330 Dec 25 j 23:25	0°♓28'04	
evening set	-8329 May 03 j 13:41	18°♓55'56	
max. Earth dist.	-8329 May 16 j 10:47	21°♓47'13	6.30400 AU
conjunction	-8329 May 17 j 00:34	21°♓54'52	-0°10'24
minimum elong	-8329 May 17 j 00:35	21°♓54'52	0°10'33
behind sun begin	-8329 May 16 j 18:15	21°♓51'22	
behind sun end	-8329 May 17 j 06:55	21°♓58'22	
morning rise	-8329 May 30 j 08:23	24°♓52'09	
	-8329 Jun 23 j 03:42	0°♈	
asc. node	-8329 Aug 04 j 03:16	7°♈44'04	
retrograde	-8329 Sep 28 j 11:24	12°♈17'56	
opposition	-8329 Nov 27 j 02:48	7°♈23'19	0°22'13
min. Earth dist.	-8329 Nov 27 j 17:12	7°♈18'36	4.33128 AU
direct	-8328 Jan 28 j 00:18	2°♈19'36	
evening set	-8328 Jun 04 j 09:30	20°♈31'36	
max. Earth dist.	-8328 Jun 16 j 07:34	23°♈09'35	6.34818 AU
conjunction	-8328 Jun 17 j 11:16	23°♈24'56	0°40'37
minimum elong	-8328 Jun 17 j 11:13	23°♈24'54	0°40'47
morning rise	-8328 Jun 30 j 09:23	26°♈16'29	
	-8328 Jul 17 j 13:38	0°♉	
retrograde	-8328 Oct 28 j 20:17	13°♉28'22	
opposition	-8328 Dec 28 j 02:00	8°♉36'12	1°30'19
min. Earth dist.	-8328 Dec 29 j 00:30	8°♉28'58	4.35464 AU
direct	-8327 Feb 28 j 13:31	3°♉34'30	
	-8327 Jun 04 j 22:55	15°♉	
evening set	-8327 Jul 06 j 02:56	21°♉38'26	
max. Earth dist.	-8327 Jul 17 j 07:40	24°♉07'52	6.34776 AU
conjunction	-8327 Jul 18 j 19:04	24°♉27'37	1°19'22
minimum elong	-8327 Jul 18 j 19:00	24°♉27'35	1°19'46
morning rise	-8327 Jul 31 j 08:38	27°♉15'33	
	-8327 Aug 12 j 20:11	0°♊	
retrograde	-8327 Nov 29 j 19:38	14°♊37'31	
opposition	-8326 Jan 29 j 14:58	9°♊46'01	2°12'34
min. Earth dist.	-8326 Jan 30 j 16:04	9°♊38'02	4.33189 AU
direct	-8326 Apr 02 j 01:43	4°♊47'07	
evening set	-8326 Aug 06 j 07:52	22°♊51'29	
max. Earth dist.	-8326 Aug 17 j 11:35	25°♊22'25	6.30347 AU
conjunction	-8326 Aug 18 j 18:22	25°♊39'49	1°35'20
minimum elong	-8326 Aug 18 j 18:21	25°♊39'49	1°35'53
morning rise	-8326 Aug 31 j 03:28	28°♊27'38	
	-8326 Sep 07 j 00:34	0°♋	
retrograde	-8325 Jan 01 j 20:53	16°♋20'08	
opposition	-8325 Mar 04 j 03:44	11°♋27'25	2°16'34
min. Earth dist.	-8325 Mar 04 j 22:31	11°♋21'27	4.26949 AU
direct	-8325 May 04 j 21:28	6°♋31'34	
evening set	-8325 Sep 06 j 17:21	24°♋43'31	
max. Earth dist.	-8325 Sep 18 j 08:59	27°♋24'00	6.22799 AU
conjunction	-8325 Sep 19 j 04:00	27°♋34'57	1°23'02
minimum elong	-8325 Sep 19 j 04:04	27°♋34'59	1°23'32
	-8325 Sep 29 j 16:23	0°♌	
morning rise	-8325 Oct 01 j 15:23	0°♌26'53	
	-8325 Dec 14 j 10:24	15°♌	
retrograde	-8324 Feb 05 j 10:38	19°♌03'17	
	-8324 Mar 30 j 23:21	15°℞♌	
opposition	-8324 Apr 06 j 19:55	14°♌07'35	1°38'03
min. Earth dist.	-8324 Apr 07 j 03:19	14°♌05'13	4.18530 AU
direct	-8324 Jun 06 j 11:04	9°♌13'57	
	-8324 Aug 08 j 06:28	15°♌	
evening set	-8324 Oct 08 j 01:34	27°♌39'29	
	-8324 Oct 18 j 02:45	0°♍	
conjunction	-8324 Oct 20 j 18:27	0°♍37'13	0°44'02
minimum elong	-8324 Oct 20 j 18:31	0°♍37'15	0°44'21
max. Earth dist.	-8324 Oct 20 j 18:39	0°♍37'20	6.14325 AU
morning rise	-8324 Nov 02 j 13:40	3°♍36'20	
retrograde	-8323 Mar 12 j 06:35	22°♍58'32	
opposition	-8323 May 12 j 09:51	17°♍58'58	0°25'13
min. Earth dist.	-8323 May 12 j 02:06	18°♍01'30	4.10596 AU
direct	-8323 Jul 10 j 17:37	13°♍06'07	
desc. node	-8323 Sep 08 j 01:44	18°♍27'14	
	-8323 Nov 03 j 04:30	0°♎	
evening set	-8323 Nov 11 j 00:00	1°♎49'08	
conjunction	-8323 Nov 24 j 01:37	4°♎53'39	-0°10'58
minimum elong	-8323 Nov 24 j 01:36	4°♎53'38	0°10'56
behind sun begin	-8323 Nov 23 j 19:25	4°♎50'00	
behind sun end	-8323 Nov 24 j 07:47	4°♎57'16	
max. Earth dist.	-8323 Nov 24 j 21:19	5°♎05'15	6.07687 AU
morning rise	-8323 Dec 07 j 06:43	8°♎00'02	
retrograde	-8322 Apr 17 j 19:10	27°♎55'18	
opposition	-8322 Jun 17 j 08:51	22°♎52'05	-0°58'42
min. Earth dist.	-8322 Jun 16 j 13:21	22°♎58'37	4.05885 AU
direct	-8322 Aug 14 j 18:09	17°♎58'00	
	-8322 Nov 15 j 23:20	0°♏	
evening set	-8322 Dec 16 j 16:09	6°♏57'34	
conjunction	-8322 Dec 30 j 01:54	10°♏06'33	-1°02'52
minimum elong	-8322 Dec 30 j 01:49	10°♏06'30	1°03'11
max. Earth dist.	-8322 Dec 31 j 13:21	10°♏27'25	6.05275 AU
morning rise	-8321 Jan 12 j 14:47	13°♏17'12	
	-8321 Jan 19 j 23:54	15°♏	
	-8321 Apr 07 j 12:19	0°♐	
retrograde	-8321 May 24 j 03:01	3°♐18'07	
	-8321 Jul 09 j 14:01	30°℞♏	
opposition	-8321 Jul 22 j 23:30	28°♏13'05	-2°01'49
min. Earth dist.	-8321 Jul 21 j 23:36	28°♏21'12	4.06166 AU
direct	-8321 Sep 19 j 02:22	23°♏16'08	
	-8321 Nov 25 j 01:01	0°♐	
evening set	-8320 Jan 22 j 12:17	12°♐23'55	

Attention, astronomical year style is used: The year -8320 in astronomical counting style is the year 8321 BCE in historical counting style.

conjunction	-8320 Feb 05 j 03:15	15°♐33'46	-1°31'50
minimum elong	-8320 Feb 05 j 03:13	15°♐33'44	1°32'21
max. Earth dist.	-8320 Feb 06 j 15:06	15°♐54'36	6.08066 AU
morning rise	-8320 Feb 18 j 20:24	18°♐44'34	
	-8320 Apr 11 j 08:21	0°♑	
retrograde	-8320 Jun 27 j 06:50	8°♑18'58	
opposition	-8320 Aug 25 j 15:05	3°♑14'36	-2°19'43
min. Earth dist.	-8320 Aug 24 j 18:49	3°♑21'32	4.11271 AU
	-8320 Sep 20 j 13:05	30°℞♐	
direct	-8320 Oct 23 j 06:21	28°♐14'09	
	-8320 Nov 25 j 07:05	0°♑	
evening set	-8319 Feb 27 j 07:40	17°♑16'39	
conjunction	-8319 Mar 13 j 01:14	20°♑24'32	-1°27'21
minimum elong	-8319 Mar 13 j 01:18	20°♑24'34	1°27'53
max. Earth dist.	-8319 Mar 14 j 02:14	20°♑38'49	6.15016 AU
morning rise	-8319 Mar 26 j 18:40	23°♑32'13	
	-8319 Apr 25 j 04:10	0°♒	
retrograde	-8319 Jul 31 j 00:39	12°♒18'55	
opposition	-8319 Sep 28 j 02:39	7°♒17'25	-1°48'39
min. Earth dist.	-8319 Sep 27 j 17:21	7°♒20'35	4.19326 AU
direct	-8319 Nov 26 j 19:54	2°♒14'20	
	-8318 Mar 07 j 08:44	15°♒	
evening set	-8318 Apr 04 j 00:49	21°♒00'15	
conjunction	-8318 Apr 17 j 16:53	24°♒04'02	-0°53'15
minimum elong	-8318 Apr 17 j 16:58	24°♒04'05	0°53'36
max. Earth dist.	-8318 Apr 17 j 21:19	24°♒06'31	6.23594 AU
morning rise	-8318 May 01 j 07:01	27°♒06'41	
	-8318 May 14 j 09:19	0°♓	
retrograde	-8318 Sep 01 j 07:21	15°♓04'10	
opposition	-8318 Oct 30 j 14:08	10°♓06'27	-0°43'36
min. Earth dist.	-8318 Oct 30 j 17:25	10°♓05'22	4.27579 AU
direct	-8318 Dec 30 j 12:58	5°♓02'16	
evening set	-8317 May 08 j 04:43	23°♓28'40	
conjunction	-8317 May 21 j 14:37	26°♓26'58	-0°03'09
minimum elong	-8317 May 21 j 14:37	26°♓26'58	0°03'15
behind sun begin	-8317 May 21 j 06:28	26°♓22'28	
behind sun end	-8317 May 21 j 22:46	26°♓31'28	
max. Earth dist.	-8317 May 20 j 23:29	26°♓18'34	6.30973 AU
morning rise	-8317 Jun 03 j 21:10	29°♓23'31	
	-8317 Jun 06 j 15:27	0°♈	
asc. node	-8317 Jun 14 j 04:34	1°♈38'53	
retrograde	-8317 Oct 02 j 20:21	16°♈46'49	
opposition	-8317 Dec 01 j 13:11	11°♈52'38	0°32'36
min. Earth dist.	-8317 Dec 02 j 04:49	11°♈47'32	4.33496 AU
direct	-8316 Feb 01 j 13:32	6°♈49'11	
evening set	-8316 Jun 08 j 21:06	25°♈00'11	
conjunction	-8316 Jun 21 j 21:26	27°♈52'53	0°47'01
minimum elong	-8316 Jun 21 j 21:22	27°♈52'51	0°47'13
max. Earth dist.	-8316 Jun 20 j 15:31	27°♈36'18	6.34941 AU
	-8316 Jul 01 j 10:54	0°♉	
morning rise	-8316 Jul 04 j 18:24	0°♉43'52	
	-8316 Sep 19 j 05:30	15°♉	
retrograde	-8316 Nov 02 j 06:20	17°♉56'04	
	-8316 Dec 17 j 01:48	15°℞♉	
opposition	-8315 Jan 01 j 14:02	13°♉04'02	1°38'06
min. Earth dist.	-8315 Jan 02 j 13:06	12°♉56'37	4.35362 AU
direct	-8315 Mar 05 j 02:34	8°♉02'38	
	-8315 May 16 j 15:36	15°♉	
evening set	-8315 Jul 10 j 11:55	26°♉06'08	
max. Earth dist.	-8315 Jul 21 j 17:28	28°♉36'11	6.34443 AU
conjunction	-8315 Jul 23 j 03:07	28°♉54'59	1°23'08
minimum elong	-8315 Jul 23 j 03:03	28°♉54'57	1°23'34
	-8315 Jul 27 j 23:27	0°♊	
morning rise	-8315 Aug 04 j 15:36	1°♊42'37	
retrograde	-8315 Dec 04 j 07:28	19°♊07'22	
opposition	-8314 Feb 03 j 05:39	14°♊15'46	2°15'35
min. Earth dist.	-8314 Feb 04 j 05:40	14°♊08'09	4.32650 AU
direct	-8314 Apr 06 j 15:06	9°♊17'18	
evening set	-8314 Aug 10 j 16:13	27°♊21'41	
max. Earth dist.	-8314 Aug 21 j 19:37	29°♊52'47	6.29615 AU
	-8314 Aug 22 j 08:20	0°♋	
conjunction	-8314 Aug 23 j 02:10	0°♋10'06	1°35'21
minimum elong	-8314 Aug 23 j 02:10	0°♋10'06	1°35'54
morning rise	-8314 Sep 04 j 11:16	2°♋58'10	
retrograde	-8313 Jan 06 j 14:03	20°♋55'25	
opposition	-8313 Mar 08 j 21:34	16°♋02'18	2°13'41
min. Earth dist.	-8313 Mar 09 j 15:28	15°♋56'37	4.26046 AU
direct	-8313 May 09 j 13:04	11°♋06'42	
evening set	-8313 Sep 11 j 03:04	29°♋19'30	
	-8313 Sep 14 j 01:45	0°♌	
conjunction	-8313 Sep 23 j 14:23	2°♌11'36	1°19'04
minimum elong	-8313 Sep 23 j 14:27	2°♌11'38	1°19'34
max. Earth dist.	-8313 Sep 22 j 22:16	2°♌02'18	6.21804 AU
morning rise	-8313 Oct 06 j 02:26	5°♌04'17	
	-8313 Nov 21 j 09:32	15°♌	
retrograde	-8312 Feb 10 j 06:48	23°♌46'20	
opposition	-8312 Apr 11 j 16:29	18°♌50'08	1°29'39
min. Earth dist.	-8312 Apr 11 j 21:40	18°♌48'28	4.17505 AU
	-8312 May 16 j 04:00	15°℞♌	
direct	-8312 Jun 11 j 02:54	13°♌56'42	
	-8312 Jul 06 j 22:08	15°♌	
	-8312 Oct 02 j 05:25	0°♍	
evening set	-8312 Oct 12 j 15:18	2°♍23'55	
conjunction	-8312 Oct 25 j 09:10	5°♍22'32	0°37'03
minimum elong	-8312 Oct 25 j 09:14	5°♍22'34	0°37'20
max. Earth dist.	-8312 Oct 25 j 11:04	5°♍23'38	6.13356 AU
morning rise	-8312 Nov 07 j 05:45	8°♍22'39	
retrograde	-8311 Mar 17 j 06:28	27°♍50'10	
opposition	-8311 May 17 j 08:19	22°♍49'59	0°13'39
min. Earth dist.	-8311 May 16 j 22:59	22°♍53'03	4.09745 AU
direct	-8311 Jul 15 j 12:48	17°♍57'00	
desc. node	-8311 Jul 20 j 01:06	17°♍59'04	
	-8311 Oct 17 j 06:16	0°♎	
evening set	-8311 Nov 15 j 19:11	6°♎42'23	
conjunction	-8311 Nov 28 j 22:07	9°♎47'42	-0°18'45
minimum elong	-8311 Nov 28 j 22:06	9°♎47'41	0°18'46
max. Earth dist.	-8311 Nov 29 j 21:03	10°♎01'13	6.07039 AU
morning rise	-8311 Dec 12 j 04:23	12°♎54'54	
	-8310 Mar 10 j 03:16	0°♏	
retrograde	-8310 Apr 22 j 20:23	2°♏52'56	
	-8310 Jun 05 j 11:35	30°℞♎	
min. Earth dist.	-8310 Jun 21 j 11:10	27°♎56'06	4.05522 AU
opposition	-8310 Jun 22 j 07:16	27°♎49'22	-1°09'19
direct	-8310 Aug 19 j 14:31	22°♎54'58	
	-8310 Oct 27 j 05:34	0°♏	
evening set	-8310 Dec 21 j 16:54	11°♏56'44	
	-8309 Jan 03 j 17:02	15°♏	
conjunction	-8309 Jan 04 j 03:23	15°♏06'05	-1°08'36
minimum elong	-8309 Jan 04 j 03:18	15°♏06'02	1°08'55
max. Earth dist.	-8309 Jan 05 j 14:02	15°♏26'28	6.05193 AU
morning rise	-8309 Jan 17 j 17:13	18°♏17'05	
	-8309 Mar 12 j 23:16	0°♐	
retrograde	-8309 May 29 j 00:49	8°♐16'54	
opposition	-8309 Jul 27 j 19:51	3°♐11'46	-2°07'18

Attention, astronomical year style is used: The year -8309 in astronomical counting style is the year 8310 BCE in historical counting style.

min. Earth dist.	-8309 Jul 26 j 19:39	3°♐20'01	4.06387 AU	
	-8309 Aug 22 j 10:23	30°℞♏		
direct	-8309 Sep 23 j 23:05	28°♏14'16		
	-8309 Oct 26 j 14:47	0°♐		
evening set	-8308 Jan 27 j 15:17	17°♐23'07		
conjunction	-8308 Feb 10 j 07:00	20°♐33'01	-1°33'15	
minimum elong	-8308 Feb 10 j 06:58	20°♐33'00	1°33'47	
max. Earth dist.	-8308 Feb 11 j 18:52	20°♐53'51	6.08564 AU	
morning rise	-8308 Feb 24 j 00:18	23°♐43'39		
	-8308 Mar 23 j 00:37	0°♑		
retrograde	-8308 Jul 02 j 03:20	13°♑13'28		
opposition	-8308 Aug 30 j 08:49	8°♑09'24	-2°18'09	
min. Earth dist.	-8308 Aug 29 j 14:25	8°♑15'41	4.11983 AU	
direct	-8308 Oct 28 j 02:55	3°♑08'32		
evening set	-8307 Mar 04 j 09:22	22°♑10'20		
conjunction	-8307 Mar 18 j 03:00	25°♑17'55	-1°24'06	
minimum elong	-8307 Mar 18 j 03:04	25°♑17'57	1°24'38	
max. Earth dist.	-8307 Mar 19 j 01:22	25°♑30'40	6.15881 AU	
morning rise	-8307 Mar 31 j 20:22	28°♑25'10		
	-8307 Apr 07 j 20:52	0°♒		
	-8307 Jun 29 j 08:05	15°♒		
retrograde	-8307 Aug 04 j 14:20	17°♒05'46		
	-8307 Sep 09 j 16:08	15°℞♒		
opposition	-8307 Oct 02 j 17:24	12°♒04'46	-1°41'04	
min. Earth dist.	-8307 Oct 02 j 08:54	12°♒07'39	4.20267 AU	
direct	-8307 Dec 01 j 13:41	7°♒01'28		
	-8306 Feb 16 j 00:04	15°♒		
evening set	-8306 Apr 08 j 22:46	25°♒45'38		
conjunction	-8306 Apr 22 j 14:16	28°♒48'48	-0°46'46	
minimum elong	-8306 Apr 22 j 14:21	28°♒48'50	0°47'06	
max. Earth dist.	-8306 Apr 22 j 16:21	28°♒49'58	6.24581 AU	
	-8306 Apr 27 j 21:18	0°♓		
morning rise	-8306 May 06 j 03:35	1°♓50'43		
retrograde	-8306 Sep 05 j 20:06	19°♓42'46		
opposition	-8306 Nov 04 j 03:02	14°♓45'39	-0°32'59	
min. Earth dist.	-8306 Nov 04 j 08:18	14°♓43'54	4.28531 AU	
direct	-8305 Jan 04 j 06:37	9°♓41'34		
asc. node	-8305 Apr 23 j 05:14	23°♓50'16		
evening set	-8305 May 12 j 21:39	28°♓05'32		
	-8305 May 21 j 12:46	0°♈		
conjunction	-8305 May 26 j 06:23	1°♈03'00	0°04'23	
minimum elong	-8305 May 26 j 06:22	1°♈03'00	0°04'20	
behind sun begin	-8305 May 25 j 22:20	0°♈58'34		
behind sun end	-8305 May 26 j 14:24	1°♈07'26		
max. Earth dist.	-8305 May 25 j 13:27	0°♈53'37	6.31838 AU	
morning rise	-8305 Jun 08 j 11:40	3°♈58'42		
retrograde	-8305 Oct 07 j 05:21	21°♈18'34		
opposition	-8305 Dec 06 j 01:17	16°♈24'46	0°42'52	
min. Earth dist.	-8305 Dec 06 j 17:14	16°♈19'34	4.34240 AU	
direct	-8304 Feb 06 j 03:55	11°♈21'33		
evening set	-8304 Jun 13 j 09:05	29°♈30'05		
	-8304 Jun 15 j 15:27	0°♉		
max. Earth dist.	-8304 Jun 25 j 02:18	2°♉05'29	6.35512 AU	
conjunction	-8304 Jun 26 j 07:58	2°♉21'56	0°53'10	
minimum elong	-8304 Jun 26 j 07:54	2°♉21'53	0°53'23	
morning rise	-8304 Jul 09 j 03:26	5°♉12'05		
	-8304 Aug 25 j 21:32	15°♉		
retrograde	-8304 Nov 06 j 16:03	22°♉23'19		
opposition	-8303 Jan 06 j 02:22	17°♉31'29	1°45'13	
min. Earth dist.	-8303 Jan 07 j 01:53	17°♉23'58	4.35726 AU	
	-8303 Jan 26 j 18:59	15°℞♉		
direct	-8303 Mar 09 j 16:39	12°♉30'32		
	-8303 Apr 20 j 10:34	15°♉		
	-8303 Jul 12 j 10:27	0°♊		
evening set	-8303 Jul 14 j 20:11	0°♊31'56		
max. Earth dist.	-8303 Jul 25 j 23:26	3°♊00'50	6.34543 AU	
conjunction	-8303 Jul 27 j 10:10	3°♊20'15	1°26'21	
minimum elong	-8303 Jul 27 j 10:07	3°♊20'13	1°26'49	
morning rise	-8303 Aug 08 j 21:52	6°♊07'29		
retrograde	-8303 Dec 08 j 18:39	23°♊33'48		
opposition	-8302 Feb 07 j 19:01	18°♊42'06	2°17'40	
min. Earth dist.	-8302 Feb 08 j 18:39	18°♊34'36	4.32482 AU	
direct	-8302 Apr 11 j 03:30	13°♊43'59		
	-8302 Aug 06 j 22:29	0°♋		
evening set	-8302 Aug 14 j 22:33	1°♋47'22		
max. Earth dist.	-8302 Aug 26 j 04:10	4°♋19'50	6.29193 AU	
conjunction	-8302 Aug 27 j 08:22	4°♋35'50	1°34'46	
minimum elong	-8302 Aug 27 j 08:22	4°♋35'51	1°35'18	
morning rise	-8302 Sep 08 j 17:15	7°♋24'03		
retrograde	-8301 Jan 11 j 04:04	25°♋25'08		
opposition	-8301 Mar 13 j 12:58	20°♋31'45	2°10'00	
min. Earth dist.	-8301 Mar 14 j 05:56	20°♋26'22	4.25377 AU	
direct	-8301 May 14 j 01:30	15°♋36'31		
	-8301 Aug 29 j 10:58	0°♌		
evening set	-8301 Sep 15 j 10:27	3°♌49'40		
conjunction	-8301 Sep 27 j 22:10	6°♌42'20	1°14'42	
minimum elong	-8301 Sep 27 j 22:14	6°♌42'23	1°15'11	
max. Earth dist.	-8301 Sep 27 j 06:24	6°♌33'14	6.20946 AU	
morning rise	-8301 Oct 10 j 11:11	9°♌35'48		
	-8301 Nov 03 j 14:24	15°♌		
retrograde	-8300 Feb 15 j 01:21	28°♌23'26		
opposition	-8300 Apr 16 j 10:15	23°♌26'44	1°20'52	
min. Earth dist.	-8300 Apr 16 j 14:02	23°♌25'30	4.16488 AU	
direct	-8300 Jun 15 j 16:37	18°♌33'23		
	-8300 Sep 15 j 17:05	0°♍		
evening set	-8300 Oct 17 j 02:42	7°♍02'45		
conjunction	-8300 Oct 29 j 21:53	10°♍02'22	0°30'00	
minimum elong	-8300 Oct 29 j 21:56	10°♍02'24	0°30'14	
max. Earth dist.	-8300 Oct 30 j 02:51	10°♍05'17	6.12301 AU	
morning rise	-8300 Nov 11 j 19:38	13°♍03'31		
	-8299 Feb 08 j 08:54	0°♎		
retrograde	-8299 Mar 22 j 04:30	2°♎36'42		
	-8299 May 03 j 02:20	30°℞♍		
opposition	-8299 May 22 j 04:02	27°♍36'06	0°02'16	
min. Earth dist.	-8299 May 21 j 17:57	27°♍39'25	4.08743 AU	
desc. node	-8299 Jun 01 j 16:09	26°♍14'23		
direct	-8299 Jul 20 j 04:43	22°♍43'04		
	-8299 Sep 28 j 05:53	0°♎		
evening set	-8299 Nov 20 j 13:13	11°♎31'55		
conjunction	-8299 Dec 03 j 17:12	14°♎38'07	-0°26'14	
minimum elong	-8299 Dec 03 j 17:10	14°♎38'06	0°26'19	
max. Earth dist.	-8299 Dec 04 j 16:16	14°♎51'44	6.06178 AU	
morning rise	-8299 Dec 17 j 00:53	17°♎46'17		
	-8298 Feb 11 j 21:10	0°♏		
retrograde	-8298 Apr 27 j 18:54	7°♏47'59		
min. Earth dist.	-8298 Jun 26 j 06:16	2°♏51'21	4.04907 AU	
opposition	-8298 Jun 27 j 03:49	2°♏44'06	-1°19'15	
	-8298 Jul 18 j 19:13	30°℞♎		
direct	-8298 Aug 24 j 08:45	27°♎49'20		
	-8298 Sep 29 j 17:35	0°♏		
	-8298 Dec 18 j 11:48	15°♏		
evening set	-8298 Dec 26 j 16:53	16°♏54'34		
conjunction	-8297 Jan 09 j 04:30	20°♏04'29	-1°13'42	

Attention, astronomical year style is used: The year -8297 in astronomical counting style is the year 8298 BCE in historical counting style.

minimum elong	-8297 Jan 09 j 04:24	20°♏04'26	1°14'04	
max. Earth dist.	-8297 Jan 10 j 17:06	20°♏26'01	6.04888 AU	
morning rise	-8297 Jan 22 j 18:59	23°♏15'55		
	-8297 Feb 21 j 13:43	0°♐		
retrograde	-8297 Jun 03 j 00:31	13°♐15'23		
opposition	-8297 Aug 01 j 15:48	8°♐10'15	-2°11'45	
min. Earth dist.	-8297 Jul 31 j 16:30	8°♐18'12	4.06438 AU	
direct	-8297 Sep 28 j 19:56	3°♐12'20		
evening set	-8296 Feb 01 j 18:24	22°♐22'44		
conjunction	-8296 Feb 15 j 10:35	25°♐32'40	-1°33'55	
minimum elong	-8296 Feb 15 j 10:35	25°♐32'40	1°34'27	
max. Earth dist.	-8296 Feb 16 j 21:28	25°♐52'54	6.08962 AU	
morning rise	-8296 Feb 29 j 04:19	28°♐43'16		
	-8296 Mar 05 j 18:17	0°♑		
retrograde	-8296 Jul 06 j 20:38	18°♑08'24		
min. Earth dist.	-8296 Sep 03 j 07:33	13°♑10'57	4.12698 AU	
opposition	-8296 Sep 04 j 02:05	13°♑04'36	-2°15'31	
direct	-8296 Nov 01 j 22:00	8°♑03'19		
evening set	-8295 Mar 09 j 10:58	27°♑04'07		
	-8295 Mar 22 j 08:46	0°♒		
conjunction	-8295 Mar 23 j 04:36	0°♒11'17	-1°20'14	
minimum elong	-8295 Mar 23 j 04:41	0°♒11'20	1°20'44	
max. Earth dist.	-8295 Mar 24 j 00:40	0°♒22'42	6.16868 AU	
morning rise	-8295 Apr 05 j 21:43	3°♒18'00		
	-8295 Jun 01 j 08:24	15°♒		
retrograde	-8295 Aug 09 j 05:29	21°♒51'47		
opposition	-8295 Oct 07 j 07:49	16°♒51'13	-1°32'49	
min. Earth dist.	-8295 Oct 07 j 01:30	16°♒53'21	4.21393 AU	
	-8295 Oct 21 j 08:42	15°℞♒		
direct	-8295 Dec 06 j 09:24	11°♒47'39		
	-8294 Jan 21 j 17:42	15°♒		
	-8294 Apr 11 j 15:18	0°♓		
evening set	-8294 Apr 13 j 19:17	0°♓28'50		
conjunction	-8294 Apr 27 j 10:14	3°♓31'16	-0°40'02	
minimum elong	-8294 Apr 27 j 10:18	3°♓31'18	0°40'20	
max. Earth dist.	-8294 Apr 27 j 10:46	3°♓31'34	6.25749 AU	
morning rise	-8294 May 10 j 22:35	6°♓32'19		
retrograde	-8294 Sep 10 j 05:06	24°♓18'19		
opposition	-8294 Nov 08 j 14:49	19°♓21'37	-0°22'16	
min. Earth dist.	-8294 Nov 08 j 20:38	19°♓19'41	4.29616 AU	
direct	-8293 Jan 08 j 21:34	14°♓17'29		
asc. node	-8293 Mar 02 j 18:43	18°♓15'11		
	-8293 May 05 j 09:37	0°♈		
evening set	-8293 May 17 j 12:35	2°♈38'19		
conjunction	-8293 May 30 j 19:55	5°♈34'51	0°11'40	
minimum elong	-8293 May 30 j 19:54	5°♈34'51	0°11'40	
behind sun begin	-8293 May 30 j 14:10	5°♈31'41		
behind sun end	-8293 May 31 j 01:37	5°♈38'00		
max. Earth dist.	-8293 May 30 j 00:24	5°♈24'03	6.32734 AU	
morning rise	-8293 Jun 12 j 23:54	8°♈29'38		
retrograde	-8293 Oct 11 j 15:00	25°♈46'15		
opposition	-8293 Dec 10 j 12:07	20°♈52'47	0°52'49	
min. Earth dist.	-8293 Dec 11 j 06:11	20°♈46'55	4.34865 AU	
direct	-8292 Feb 10 j 18:30	15°♈49'46		
	-8292 May 30 j 14:02	0°♉		
evening set	-8292 Jun 17 j 19:20	3°♉56'12		
max. Earth dist.	-8292 Jun 29 j 09:39	6°♉30'01	6.35780 AU	
conjunction	-8292 Jun 30 j 16:54	6°♉47'21	0°58'58	
minimum elong	-8292 Jun 30 j 16:49	6°♉47'18	0°59'14	
morning rise	-8292 Jul 13 j 11:05	9°♉36'51		
	-8292 Aug 07 j 12:58	15°♉		
retrograde	-8292 Nov 11 j 01:00	26°♉48'23		
opposition	-8291 Jan 10 j 14:06	21°♉56'38	1°51'49	
min. Earth dist.	-8291 Jan 11 j 13:36	21°♉49'07	4.35642 AU	
direct	-8291 Mar 14 j 03:46	16°♉55'58		
	-8291 Jun 26 j 07:46	0°♊		
evening set	-8291 Jul 19 j 03:55	4°♊56'53		
max. Earth dist.	-8291 Jul 30 j 07:10	7°♊26'00	6.34096 AU	
conjunction	-8291 Jul 31 j 17:01	7°♊44'58	1°29'08	
minimum elong	-8291 Jul 31 j 16:58	7°♊44'56	1°29'38	
morning rise	-8291 Aug 13 j 03:52	10°♊32'01		
retrograde	-8291 Dec 13 j 08:18	28°♊02'00		
opposition	-8290 Feb 12 j 09:47	23°♊10'12	2°19'07	
min. Earth dist.	-8290 Feb 13 j 09:38	23°♊02'39	4.31698 AU	
direct	-8290 Apr 15 j 16:51	18°♊12'30		
	-8290 Jul 21 j 11:15	0°♋		
evening set	-8290 Aug 19 j 06:29	6°♋16'51		
max. Earth dist.	-8290 Aug 30 j 11:42	8°♋49'32	6.28121 AU	
conjunction	-8290 Aug 31 j 16:04	9°♋05'40	1°33'41	
minimum elong	-8290 Aug 31 j 16:05	9°♋05'41	1°34'13	
morning rise	-8290 Sep 13 j 01:17	11°♋54'25		
	-8289 Jan 11 j 13:31	0°♌		
retrograde	-8289 Jan 15 j 22:08	0°♌01'46		
	-8289 Jan 20 j 06:46	30°℞♋		
opposition	-8289 Mar 18 j 07:37	25°♋07'59	2°05'31	
min. Earth dist.	-8289 Mar 18 j 22:47	25°♋03'10	4.24086 AU	
direct	-8289 May 18 j 15:31	20°♋13'04		
	-8289 Aug 12 j 00:18	0°♌		
evening set	-8289 Sep 19 j 21:31	8°♌28'39		
conjunction	-8289 Oct 02 j 10:10	11°♌22'16	1°09'45	
minimum elong	-8289 Oct 02 j 10:15	11°♌22'18	1°10'12	
max. Earth dist.	-8289 Oct 01 j 22:03	11°♌15'14	6.19567 AU	
morning rise	-8289 Oct 15 j 00:03	14°♌16'44		
	-8289 Oct 18 j 03:27	15°♌		
	-8288 Jan 04 j 08:26	0°♍		
retrograde	-8288 Feb 20 j 01:36	3°♍11'39		
	-8288 Apr 07 j 09:54	30°℞♌		
opposition	-8288 Apr 21 j 08:54	28°♌14'30	1°11'12	
min. Earth dist.	-8288 Apr 21 j 11:23	28°♌13'42	4.15123 AU	
direct	-8288 Jun 20 j 11:03	23°♌21'23		
	-8288 Aug 26 j 20:38	0°♍		
evening set	-8288 Oct 21 j 19:38	11°♍54'03		
conjunction	-8288 Nov 03 j 15:54	14°♍54'43	0°22'25	
minimum elong	-8288 Nov 03 j 15:56	14°♍54'44	0°22'38	
max. Earth dist.	-8288 Nov 03 j 22:26	14°♍58'33	6.11081 AU	
morning rise	-8288 Nov 16 j 15:15	17°♍57'06		
	-8287 Jan 11 j 23:53	0°♎		
retrograde	-8287 Mar 27 j 06:35	7°♎36'21		
desc. node	-8287 Apr 12 j 01:11	7°♎12'48		
opposition	-8287 May 27 j 05:10	2°♎35'15	-0°09'43	
min. Earth dist.	-8287 May 26 j 16:11	2°♎39'32	4.07806 AU	
	-8287 Jun 16 j 22:42	30°℞♍		
direct	-8287 Jul 25 j 01:34	27°♍42'10		
	-8287 Aug 31 j 17:28	0°♎		
evening set	-8287 Nov 25 j 12:41	16°♎34'08		
conjunction	-8287 Dec 08 j 18:00	19°♎41'08	-0°33'54	
minimum elong	-8287 Dec 08 j 17:57	19°♎41'06	0°34'02	
max. Earth dist.	-8287 Dec 09 j 21:22	19°♎57'17	6.05635 AU	
morning rise	-8287 Dec 22 j 02:41	22°♎49'59		
	-8286 Jan 22 j 18:28	0°♏		
retrograde	-8286 May 02 j 23:30	12°♏53'36		
min. Earth dist.	-8286 Jul 01 j 06:47	7°♏56'51	4.04862 AU	
opposition	-8286 Jul 02 j 04:45	7°♏49'27	-1°28'59	
direct	-8286 Aug 29 j 09:09	2°♏54'24		

Attention, astronomical year style is used: The year -8286 in astronomical counting style is the year 8287 BCE in historical counting style.

	-8286 Nov 30 j 20:59	15°♏		
evening set	-8286 Dec 31 j 21:01	22°♏00'44		
conjunction	-8285 Jan 14 j 09:17	25°♏10'44	-1°18'27	
minimum elong	-8285 Jan 14 j 09:12	25°♏10'42	1°18'51	
max. Earth dist.	-8285 Jan 15 j 22:52	25°♏32'47	6.05335 AU	
morning rise	-8285 Jan 28 j 00:31	28°♏22'12		
	-8285 Feb 04 j 01:23	0°♐		
retrograde	-8285 Jun 07 j 22:12	18°♐17'38		
opposition	-8285 Aug 06 j 12:54	13°♐12'32	-2°15'17	
min. Earth dist.	-8285 Aug 05 j 12:35	13°♐20'50	4.07374 AU	
direct	-8285 Oct 03 j 17:20	8°♐14'10		
evening set	-8284 Feb 06 j 21:57	27°♐22'43		
	-8284 Feb 18 j 06:44	0°♑		
conjunction	-8284 Feb 20 j 14:25	0°♑32'12	-1°33'57	
minimum elong	-8284 Feb 20 j 14:26	0°♑32'12	1°34'30	
max. Earth dist.	-8284 Feb 21 j 23:49	0°♑51'30	6.10288 AU	
morning rise	-8284 Mar 05 j 08:11	3°♑42'10		
retrograde	-8284 Jul 11 j 13:21	22°♑59'11		
opposition	-8284 Sep 08 j 18:02	17°♑55'43	-2°11'57	
min. Earth dist.	-8284 Sep 08 j 01:34	18°♑01'21	4.14257 AU	
direct	-8284 Nov 06 j 19:02	12°♑54'02		
	-8283 Mar 06 j 03:36	0°♒		
evening set	-8283 Mar 14 j 09:15	1°♒50'43		
conjunction	-8283 Mar 28 j 02:48	4°♒57'07	-1°15'57	
minimum elong	-8283 Mar 28 j 02:53	4°♒57'10	1°16'26	
max. Earth dist.	-8283 Mar 28 j 21:15	5°♒07'35	6.18531 AU	
morning rise	-8283 Apr 10 j 19:20	8°♒02'53		
	-8283 May 12 j 19:11	15°♒		
retrograde	-8283 Aug 13 j 14:25	26°♒28'02		
opposition	-8283 Oct 11 j 18:26	21°♒28'01	-1°24'15	
min. Earth dist.	-8283 Oct 11 j 13:13	21°♒29'46	4.22992 AU	
direct	-8283 Dec 10 j 23:53	16°♒24'16		
	-8282 Mar 26 j 07:19	0°♓		
evening set	-8282 Apr 18 j 11:10	5°♓01'14		
conjunction	-8282 May 02 j 01:07	8°♓02'43	-0°33'19	
minimum elong	-8282 May 02 j 01:10	8°♓02'45	0°33'35	
max. Earth dist.	-8282 May 01 j 20:50	8°♓00'20	6.27155 AU	
morning rise	-8282 May 15 j 12:35	11°♓02'48		
retrograde	-8282 Sep 14 j 12:18	28°♓42'47		
opposition	-8282 Nov 12 j 22:20	23°♓46'36	-0°11'53	
min. Earth dist.	-8282 Nov 13 j 07:22	23°♓43'37	4.30705 AU	
asc. node	-8281 Jan 12 j 16:42	18°♓42'31		
direct	-8281 Jan 13 j 10:09	18°♓42'28		
	-8281 Apr 18 j 18:57	0°♈		
evening set	-8281 May 21 j 22:34	7°♈00'36		
max. Earth dist.	-8281 Jun 03 j 07:15	9°♈44'25	6.33412 AU	
conjunction	-8281 Jun 04 j 04:49	9°♈56'22	0°18'36	
minimum elong	-8281 Jun 04 j 04:47	9°♈56'20	0°18'38	
morning rise	-8281 Jun 17 j 07:23	12°♈50'19		
	-8281 Oct 08 j 14:52	0°♉		
retrograde	-8281 Oct 15 j 19:26	0°♉05'02		
	-8281 Oct 23 j 00:25	30°℞♈		
opposition	-8281 Dec 14 j 19:15	25°♈11'55	1°02'05	
min. Earth dist.	-8281 Dec 15 j 14:09	25°♈05'47	4.35104 AU	
direct	-8280 Feb 15 j 02:07	20°♈09'08		
	-8280 May 13 j 14:12	0°♉		
evening set	-8280 Jun 22 j 02:01	8°♉15'03		
conjunction	-8280 Jul 04 j 22:12	11°♉05'43	1°04'15	
minimum elong	-8280 Jul 04 j 22:08	11°♉05'40	1°04'34	
max. Earth dist.	-8280 Jul 03 j 12:53	10°♉47'12	6.35544 AU	
morning rise	-8280 Jul 17 j 15:19	13°♉54'51		
	-8280 Jul 22 j 13:47	15°♉		
	-8280 Oct 19 j 06:14	0°♊		
retrograde	-8280 Nov 15 j 10:42	1°♊08'44		
	-8280 Dec 12 j 16:32	30°℞♉		
opposition	-8279 Jan 14 j 23:59	26°♉17'08	1°57'37	
min. Earth dist.	-8279 Jan 16 j 01:16	26°♉09'04	4.34959 AU	
direct	-8279 Mar 18 j 14:02	21°♉16'50		
	-8279 Jun 08 j 17:10	0°♊		
evening set	-8279 Jul 23 j 10:02	9°♊19'18		
conjunction	-8279 Aug 04 j 22:26	12°♊07'28	1°31'21	
minimum elong	-8279 Aug 04 j 22:24	12°♊07'27	1°31'50	
max. Earth dist.	-8279 Aug 03 j 12:04	11°♊48'10	6.33000 AU	
morning rise	-8279 Aug 17 j 08:50	14°♊54'45		
	-8279 Nov 06 j 21:53	0°♋		
retrograde	-8279 Dec 17 j 21:23	2°♋30'37		
	-8278 Jan 28 j 13:36	30°℞♊		
opposition	-8278 Feb 17 j 00:14	27°♊38'38	2°19'45	
min. Earth dist.	-8278 Feb 17 j 22:42	27°♊31'30	4.30286 AU	
direct	-8278 Apr 20 j 03:07	22°♊41'19		
	-8278 Jul 02 j 15:51	0°♋		
evening set	-8278 Aug 23 j 14:56	10°♋48'45		
max. Earth dist.	-8278 Sep 03 j 23:11	13°♋23'41	6.26517 AU	
conjunction	-8278 Sep 05 j 00:44	13°♋38'17	1°31'57	
minimum elong	-8278 Sep 05 j 00:46	13°♋38'18	1°32'30	
morning rise	-8278 Sep 17 j 10:13	16°♋27'50		
	-8278 Nov 24 j 07:43	0°♌		
retrograde	-8277 Jan 20 j 19:42	4°♌43'08		
	-8277 Mar 21 j 17:21	30°℞♋		
opposition	-8277 Mar 23 j 03:58	29°♋48'59	2°00'09	
min. Earth dist.	-8277 Mar 23 j 18:08	29°♋44'28	4.22395 AU	
direct	-8277 May 23 j 08:23	24°♋54'24		
	-8277 Jul 21 j 13:53	0°♌		
evening set	-8277 Sep 24 j 10:41	13°♌13'31		
	-8277 Oct 02 j 02:41	15°♌		
conjunction	-8277 Oct 07 j 00:10	16°♌08'13	1°04'12	
minimum elong	-8277 Oct 07 j 00:14	16°♌08'16	1°04'37	
max. Earth dist.	-8277 Oct 06 j 14:02	16°♌02'20	6.17948 AU	
morning rise	-8277 Oct 19 j 15:25	19°♌03'57		
	-8277 Dec 09 j 19:15	0°♍		
retrograde	-8276 Feb 25 j 02:11	8°♍06'41		
opposition	-8276 Apr 26 j 09:49	3°♍08'54	1°00'47	
min. Earth dist.	-8276 Apr 26 j 08:41	3°♍09'16	4.13704 AU	
	-8276 May 22 j 22:03	30°℞♌		
direct	-8276 Jun 25 j 06:31	28°♌15'54		
	-8276 Jul 28 j 07:15	0°♍		
evening set	-8276 Oct 26 j 15:09	16°♍51'45		
conjunction	-8276 Nov 08 j 12:50	19°♍53'29	0°14'31	
minimum elong	-8276 Nov 08 j 12:51	19°♍53'29	0°14'41	
behind sun begin	-8276 Nov 08 j 09:20	19°♍51'26		
behind sun end	-8276 Nov 08 j 16:22	19°♍55'33		
max. Earth dist.	-8276 Nov 09 j 00:20	20°♍00'14	6.10000 AU	
morning rise	-8276 Nov 21 j 13:27	22°♍56'55		
	-8276 Dec 22 j 19:46	0°♎		
desc. node	-8275 Feb 19 j 06:57	10°♎07'48		
retrograde	-8275 Apr 01 j 12:28	12°♎41'01		
opposition	-8275 Jun 01 j 07:54	7°♎39'21	-0°21'52	
min. Earth dist.	-8275 May 31 j 17:39	7°♎44'04	4.07151 AU	
direct	-8275 Jul 30 j 02:20	2°♎46'03		
evening set	-8275 Nov 30 j 14:15	21°♎39'55		
conjunction	-8275 Dec 13 j 20:34	24°♎47'26	-0°41'25	
minimum elong	-8275 Dec 13 j 20:30	24°♎47'24	0°41'35	
max. Earth dist.	-8275 Dec 15 j 01:58	25°♎04'47	6.05432 AU	

Attention, astronomical year style is used: The year -8275 in astronomical counting style is the year 8276 BCE in historical counting style.

morning rise	-8275 Dec 27 j 06:28	27°♎56'51	
	-8274 Jan 05 j 02:16	0°♏	
	-8274 Mar 24 j 13:51	15°♏	
retrograde	-8274 May 08 j 01:20	18°♏00'17	
	-8274 Jun 21 j 10:31	15°℞♏	
min. Earth dist.	-8274 Jul 06 j 05:44	13°♏03'50	4.05140 AU
opposition	-8274 Jul 07 j 05:32	12°♏55'48	-1°38'05
direct	-8274 Sep 03 j 08:03	8°♏00'18	
	-8274 Nov 10 j 12:55	15°♏	
evening set	-8273 Jan 06 j 01:30	27°♏06'41	
	-8273 Jan 18 j 10:03	0°♐	
conjunction	-8273 Jan 19 j 14:27	0°♐16'38	-1°22'38
minimum elong	-8273 Jan 19 j 14:23	0°♐16'36	1°23'05
max. Earth dist.	-8273 Jan 21 j 04:07	0°♐38'42	6.06021 AU
morning rise	-8273 Feb 02 j 06:09	3°♐27'56	
retrograde	-8273 Jun 12 j 20:22	23°♐18'27	
min. Earth dist.	-8273 Aug 10 j 10:35	18°♐21'15	4.08387 AU
opposition	-8273 Aug 11 j 09:35	18°♐13'23	-2°17'53
direct	-8273 Oct 08 j 17:16	13°♐14'30	
	-8272 Feb 01 j 17:00	0°♑	
evening set	-8272 Feb 12 j 01:08	2°♑21'06	
conjunction	-8272 Feb 25 j 18:02	5°♑30'10	-1°33'22
minimum elong	-8272 Feb 25 j 18:03	5°♑30'11	1°33'55
max. Earth dist.	-8272 Feb 27 j 02:50	5°♑49'04	6.11537 AU
morning rise	-8272 Mar 10 j 11:42	8°♑39'32	
retrograde	-8272 Jul 16 j 05:20	27°♑48'48	
opposition	-8272 Sep 13 j 09:35	22°♑45'48	-2°07'36
min. Earth dist.	-8272 Sep 12 j 18:07	22°♑51'04	4.15626 AU
direct	-8272 Nov 11 j 13:39	17°♑43'46	
	-8271 Feb 16 j 22:37	0°♒	
evening set	-8271 Mar 19 j 08:10	6°♒37'21	
conjunction	-8271 Apr 02 j 01:20	9°♒43'04	-1°11'12
minimum elong	-8271 Apr 02 j 01:25	9°♒43'07	1°11'39
max. Earth dist.	-8271 Apr 02 j 15:02	9°♒50'49	6.19914 AU
morning rise	-8271 Apr 15 j 17:33	12°♒48'05	
	-8271 Apr 25 j 14:26	15°♒	
	-8271 Jul 23 j 02:16	0°♓	
retrograde	-8271 Aug 18 j 02:15	1°♓05'52	
	-8271 Sep 12 j 21:22	30°℞♒	
opposition	-8271 Oct 16 j 06:09	26°♒06'23	-1°15'10
min. Earth dist.	-8271 Oct 16 j 03:43	26°♒07'12	4.24259 AU
direct	-8271 Dec 15 j 16:48	21°♒02'26	
	-8270 Mar 08 j 00:25	0°♓	
evening set	-8270 Apr 23 j 04:13	9°♓36'26	
conjunction	-8270 May 06 j 17:32	12°♓37'12	-0°26'19
minimum elong	-8270 May 06 j 17:34	12°♓37'14	0°26'32
max. Earth dist.	-8270 May 06 j 11:29	12°♓33'50	6.28232 AU
morning rise	-8270 May 20 j 03:49	15°♓36'25	
	-8270 Aug 04 j 06:07	0°♈	
retrograde	-8270 Sep 18 j 20:09	3°♈11'39	
	-8270 Nov 03 j 21:52	30°℞♓	
opposition	-8270 Nov 17 j 08:08	28°♓16'00	-0°01'15
min. Earth dist.	-8270 Nov 17 j 18:18	28°♓12'39	4.31514 AU
asc. node	-8270 Nov 23 j 17:19	27°♓25'42	
direct	-8269 Jan 17 j 22:10	23°♓12'00	
	-8269 Mar 30 j 06:52	0°♈	
evening set	-8269 May 26 j 11:00	11°♈28'15	
conjunction	-8269 Jun 08 j 15:47	14°♈23'16	0°25'36
minimum elong	-8269 Jun 08 j 15:45	14°♈23'14	0°25'40
max. Earth dist.	-8269 Jun 07 j 14:35	14°♈09'18	6.33887 AU
morning rise	-8269 Jun 21 j 17:12	17°♈16'31	
	-8269 Aug 26 j 00:48	0°♉	
retrograde	-8269 Oct 20 j 05:21	4°♉30'07	
	-8269 Dec 16 j 07:32	30°℞♈	
opposition	-8269 Dec 19 j 05:40	29°♈37'21	1°11'17
min. Earth dist.	-8269 Dec 20 j 02:47	29°♈30'31	4.35234 AU
direct	-8268 Feb 19 j 14:56	24°♈34'51	
	-8268 Apr 22 j 20:54	0°♉	
evening set	-8268 Jun 26 j 11:21	12°♉40'24	
	-8268 Jul 06 j 23:20	15°♉	
max. Earth dist.	-8268 Jul 07 j 21:10	15°♉12'08	6.35307 AU
conjunction	-8268 Jul 09 j 06:27	15°♉30'39	1°09'21
minimum elong	-8268 Jul 09 j 06:23	15°♉30'36	1°09'42
morning rise	-8268 Jul 21 j 22:18	18°♉19'23	
	-8268 Sep 18 j 09:26	0°♊	
retrograde	-8268 Nov 19 j 20:56	5°♊35'38	
opposition	-8267 Jan 19 j 12:48	0°♊44'08	2°02'58
min. Earth dist.	-8267 Jan 20 j 13:16	0°♊36'20	4.34411 AU
	-8267 Jan 25 j 07:46	30°℞♉	
direct	-8267 Mar 23 j 00:46	25°♉44'18	
	-8267 May 17 j 09:44	0°♊	
evening set	-8267 Jul 27 j 18:34	13°♊47'41	
max. Earth dist.	-8267 Aug 07 j 20:30	16°♊16'53	6.32180 AU
conjunction	-8267 Aug 09 j 06:11	16°♊35'51	1°33'07
minimum elong	-8267 Aug 09 j 06:09	16°♊35'50	1°33'38
morning rise	-8267 Aug 21 j 16:08	19°♊23'16	
	-8267 Oct 12 j 02:09	0°♋	
retrograde	-8267 Dec 22 j 14:33	7°♋04'14	
opposition	-8266 Feb 21 j 17:21	2°♋12'07	2°19'35
min. Earth dist.	-8266 Feb 22 j 15:42	2°♋05'02	4.29261 AU
	-8266 Mar 11 j 17:26	30°℞♊	
direct	-8266 Apr 24 j 18:28	27°♊15'18	
	-8266 Jun 07 j 02:03	0°♋	
evening set	-8266 Aug 28 j 00:38	15°♋24'14	
max. Earth dist.	-8266 Sep 08 j 10:47	18°♋00'41	6.25390 AU
conjunction	-8266 Sep 09 j 10:36	18°♋14'19	1°29'43
minimum elong	-8266 Sep 09 j 10:39	18°♋14'20	1°30'15
morning rise	-8266 Sep 21 j 20:36	21°♋04'32	
	-8266 Nov 02 j 08:13	0°♌	
retrograde	-8265 Jan 25 j 14:49	9°♌26'10	
opposition	-8265 Mar 28 j 00:51	4°♌31'34	1°54'00
min. Earth dist.	-8265 Mar 28 j 11:50	4°♌28'04	4.21262 AU
	-8265 May 12 j 13:04	30°℞♋	
direct	-8265 May 28 j 00:15	29°♋37'22	
	-8265 Jun 12 j 12:06	0°♌	
	-8265 Sep 15 j 23:47	15°♌	
evening set	-8265 Sep 28 j 23:52	17°♌58'11	
conjunction	-8265 Oct 11 j 14:18	20°♌53'44	0°58'18
minimum elong	-8265 Oct 11 j 14:23	20°♌53'46	0°58'42
max. Earth dist.	-8265 Oct 11 j 08:06	20°♌50'07	6.16927 AU
morning rise	-8265 Oct 24 j 06:34	23°♌50'24	
	-8265 Nov 20 j 17:16	0°♍	
retrograde	-8264 Mar 01 j 03:23	12°♍58'45	
opposition	-8264 May 01 j 09:14	8°♍00'27	0°50'05
min. Earth dist.	-8264 May 01 j 06:47	8°♍01'14	4.12861 AU
direct	-8264 Jun 30 j 03:28	3°♍07'31	
evening set	-8264 Oct 31 j 09:02	21°♍44'52	
conjunction	-8264 Nov 13 j 07:51	24°♍47'23	0°06'43
minimum elong	-8264 Nov 13 j 07:51	24°♍47'23	0°06'49
behind sun begin	-8264 Nov 13 j 00:16	24°♍42'57	
behind sun end	-8264 Nov 13 j 15:25	24°♍51'49	
max. Earth dist.	-8264 Nov 13 j 21:44	24°♍55'32	6.09411 AU
morning rise	-8264 Nov 26 j 09:53	27°♍51'41	
	-8264 Dec 05 j 15:11	0°♎	

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

desc. node	-8264 Dec 30 j 12:30	5°♎31'20	
retrograde	-8263 Apr 06 j 12:44	17°♎38'47	
opposition	-8263 Jun 06 j 07:12	12°♎36'38	-0°33'29
min. Earth dist.	-8263 Jun 05 j 14:31	12°♎42'10	4.06887 AU
direct	-8263 Aug 03 j 21:52	7°♎43'09	
evening set	-8263 Dec 05 j 12:40	26°♎38'00	
conjunction	-8263 Dec 18 j 19:58	29°♎45'54	-0°48'23
minimum elong	-8263 Dec 18 j 19:53	29°♎45'51	0°48'36
	-8263 Dec 19 j 19:53	0°♏	
max. Earth dist.	-8263 Dec 20 j 02:55	0°♏04'08	6.05485 AU
morning rise	-8262 Jan 01 j 06:45	2°♏55'37	
	-8262 Feb 26 j 07:59	15°♏	
retrograde	-8262 May 13 j 00:04	22°♏58'17	
min. Earth dist.	-8262 Jul 11 j 02:57	18°♏01'28	4.05508 AU
opposition	-8262 Jul 12 j 02:23	17°♏53'31	-1°46'10
	-8262 Aug 04 j 00:14	15°℞♏	
direct	-8262 Sep 08 j 05:27	12°♏57'35	
	-8262 Oct 13 j 09:17	15°♏	
	-8261 Jan 02 j 03:37	0°♐	
evening set	-8261 Jan 11 j 02:23	2°♐04'01	
conjunction	-8261 Jan 24 j 16:05	5°♐13'58	-1°26'06
minimum elong	-8261 Jan 24 j 16:01	5°♐13'56	1°26'33
max. Earth dist.	-8261 Jan 26 j 06:29	5°♐36'24	6.06655 AU
morning rise	-8261 Feb 07 j 08:09	8°♐25'05	
retrograde	-8261 Jun 17 j 15:13	28°♐10'55	
min. Earth dist.	-8261 Aug 15 j 04:09	23°♐13'40	4.09238 AU
opposition	-8261 Aug 16 j 02:23	23°♐06'04	-2°19'25
direct	-8261 Oct 13 j 11:36	18°♐06'43	
	-8260 Jan 15 j 11:03	0°♑	
evening set	-8260 Feb 17 j 01:14	7°♑12'12	
conjunction	-8260 Mar 01 j 18:15	10°♑20'56	-1°32'09
minimum elong	-8260 Mar 01 j 18:17	10°♑20'58	1°32'42
max. Earth dist.	-8260 Mar 02 j 23:08	10°♑37'32	6.12514 AU
morning rise	-8260 Mar 15 j 12:08	13°♑29'54	
	-8260 Jun 10 j 14:14	0°♒	
retrograde	-8260 Jul 20 j 19:05	2°♒32'47	
	-8260 Aug 29 j 18:00	30°℞♑	
opposition	-8260 Sep 17 j 22:43	27°♑30'10	-2°02'34
min. Earth dist.	-8260 Sep 17 j 09:21	27°♑34'44	4.16625 AU
direct	-8260 Nov 16 j 07:01	22°♑27'45	
	-8259 Jan 28 j 14:56	0°♒	
evening set	-8259 Mar 24 j 04:31	11°♒19'33	
conjunction	-8259 Apr 06 j 21:39	14°♒24'50	-1°06'04
minimum elong	-8259 Apr 06 j 21:44	14°♒24'53	1°06'30
max. Earth dist.	-8259 Apr 07 j 09:38	14°♒31'35	6.20888 AU
	-8259 Apr 09 j 11:57	15°♒	
morning rise	-8259 Apr 20 j 13:13	17°♒29'13	
	-8259 Jun 21 j 10:24	0°♓	
retrograde	-8259 Aug 22 j 12:54	5°♓41'16	
opposition	-8259 Oct 20 j 16:52	0°♓42'21	-1°05'46
min. Earth dist.	-8259 Oct 20 j 16:06	0°♓42'36	4.25115 AU
	-8259 Oct 25 j 23:25	30°℞♒	
direct	-8259 Dec 20 j 06:40	25°♒38'20	
	-8258 Feb 13 j 10:29	0°♓	
evening set	-8258 Apr 27 j 20:36	14°♓10'39	
conjunction	-8258 May 11 j 08:54	17°♓10'46	-0°19'14
minimum elong	-8258 May 11 j 08:56	17°♓10'47	0°19'24
max. Earth dist.	-8258 May 10 j 22:46	17°♓05'08	6.28914 AU
morning rise	-8258 May 24 j 18:21	20°♓09'19	
	-8258 Jul 11 j 10:04	0°♈	
retrograde	-8258 Sep 23 j 05:21	7°♈41'12	
asc. node	-8258 Oct 04 j 18:47	7°♈27'56	
opposition	-8258 Nov 21 j 18:16	2°♈45'58	0°09'21
min. Earth dist.	-8258 Nov 22 j 06:28	2°♈41'57	4.31988 AU
	-8258 Dec 14 j 01:33	30°℞♓	
direct	-8257 Jan 22 j 11:31	27°♓42'03	
	-8257 Mar 03 j 06:12	0°♈	
evening set	-8257 May 30 j 23:31	15°♈57'16	
max. Earth dist.	-8257 Jun 12 j 01:57	18°♈37'42	6.34130 AU
conjunction	-8257 Jun 13 j 03:09	18°♈51'40	0°32'28
minimum elong	-8257 Jun 13 j 03:06	18°♈51'38	0°32'35
morning rise	-8257 Jun 26 j 03:06	21°♈44'15	
	-8257 Aug 04 j 15:12	0°♉	
retrograde	-8257 Oct 24 j 14:05	8°♉57'21	
opposition	-8257 Dec 23 j 16:59	4°♉04'50	1°20'06
min. Earth dist.	-8257 Dec 24 j 14:03	3°♉58'03	4.35252 AU
	-8256 Jan 29 j 20:36	30°℞♈	
direct	-8256 Feb 24 j 02:49	29°♈02'42	
	-8256 Mar 20 j 13:56	0°♉	
	-8256 Jun 21 j 03:51	15°♉	
evening set	-8256 Jun 30 j 21:11	17°♉07'44	
max. Earth dist.	-8256 Jul 12 j 04:21	19°♉38'16	6.35080 AU
conjunction	-8256 Jul 13 j 14:52	19°♉57'30	1°14'04
minimum elong	-8256 Jul 13 j 14:48	19°♉57'27	1°14'26
morning rise	-8256 Jul 26 j 05:47	22°♉45'52	
	-8256 Aug 29 j 07:19	0°♊	
retrograde	-8256 Nov 24 j 09:48	10°♊04'20	
opposition	-8255 Jan 24 j 02:49	5°♊12'48	2°07'37
min. Earth dist.	-8255 Jan 25 j 03:49	5°♊04'50	4.33963 AU
direct	-8255 Mar 27 j 15:05	0°♊13'19	
evening set	-8255 Aug 01 j 03:03	18°♊16'42	
max. Earth dist.	-8255 Aug 12 j 06:20	20°♊46'54	6.31532 AU
conjunction	-8255 Aug 13 j 14:11	21°♊04'52	1°34'21
minimum elong	-8255 Aug 13 j 14:09	21°♊04'51	1°34'53
morning rise	-8255 Aug 25 j 23:37	23°♊52'20	
	-8255 Sep 23 j 04:19	0°♋	
retrograde	-8255 Dec 27 j 04:40	11°♋37'30	
opposition	-8254 Feb 26 j 10:12	6°♋45'05	2°18'33
min. Earth dist.	-8254 Feb 27 j 06:24	6°♋38'41	4.28451 AU
direct	-8254 Apr 29 j 08:06	1°♋48'40	
evening set	-8254 Sep 01 j 10:02	19°♋58'12	
conjunction	-8254 Sep 13 j 20:09	22°♋48'43	1°26'56
minimum elong	-8254 Sep 13 j 20:12	22°♋48'45	1°27'27
max. Earth dist.	-8254 Sep 12 j 22:15	22°♋36'10	6.24471 AU
morning rise	-8254 Sep 26 j 06:38	25°♋39'33	
	-8254 Oct 15 j 16:07	0°♌	
retrograde	-8253 Jan 30 j 11:27	14°♌06'41	
opposition	-8253 Apr 01 j 20:56	9°♌11'37	1°47'09
min. Earth dist.	-8253 Apr 02 j 07:02	9°♌08'24	4.20259 AU
direct	-8253 Jun 01 j 17:50	4°♌17'38	
	-8253 Aug 29 j 22:04	15°♌	
evening set	-8253 Oct 03 j 12:07	22°♌39'47	
conjunction	-8253 Oct 16 j 03:34	25°♌36'12	0°52'05
minimum elong	-8253 Oct 16 j 03:38	25°♌36'14	0°52'27
max. Earth dist.	-8253 Oct 15 j 23:44	25°♌33'58	6.15938 AU
morning rise	-8253 Oct 28 j 21:04	28°♌33'50	
	-8253 Nov 04 j 02:38	0°♍	
retrograde	-8252 Mar 06 j 01:43	17°♍47'41	
opposition	-8252 May 06 j 07:20	12°♍48'50	0°39'08
min. Earth dist.	-8252 May 06 j 02:17	12°♍50'29	4.11960 AU
direct	-8252 Jul 04 j 20:35	7°♍55'58	
evening set	-8252 Nov 05 j 02:34	26°♍35'24	
desc. node	-8252 Nov 09 j 19:43	27°♍41'43	

Attention, astronomical year style is used: The year -8252 in astronomical counting style is the year 8253 BCE in historical counting style.

conjunction	-8252 Nov 18 j 02:34	29°♍38'46	-0°01'12
minimum elong	-8252 Nov 18 j 02:32	29°♍38'45	0°01'09
behind sun begin	-8252 Nov 17 j 18:23	29°♍33'58	
behind sun end	-8252 Nov 18 j 10:42	29°♍43'31	
max. Earth dist.	-8252 Nov 18 j 18:32	29°♍48'09	6.08678 AU
	-8252 Nov 19 j 14:38	0°♎	
morning rise	-8252 Dec 01 j 05:51	2°♎43'56	
retrograde	-8251 Apr 11 j 13:24	22°♎34'45	
opposition	-8251 Jun 11 j 05:43	17°♎32'07	-0°44'52
min. Earth dist.	-8251 Jun 10 j 12:18	17°♎37'55	4.06381 AU
direct	-8251 Aug 08 j 18:28	12°♎38'21	
	-8251 Dec 03 j 15:54	0°♏	
evening set	-8251 Dec 10 j 11:42	1°♏35'31	
conjunction	-8251 Dec 23 j 20:07	4°♏43'57	-0°55'01
minimum elong	-8251 Dec 23 j 20:02	4°♏43'54	0°55'17
max. Earth dist.	-8251 Dec 25 j 05:11	5°♏03'26	6.05251 AU
morning rise	-8250 Jan 06 j 07:48	7°♏54'09	
	-8250 Feb 06 j 17:21	15°♏	
retrograde	-8250 May 17 j 23:53	27°♏56'51	
opposition	-8250 Jul 16 j 23:24	22°♏51'59	-1°53'34
min. Earth dist.	-8250 Jul 15 j 23:47	22°♏59'59	4.05593 AU
direct	-8250 Sep 13 j 01:41	17°♏55'37	
	-8250 Dec 15 j 19:26	0°♐	
evening set	-8249 Jan 16 j 04:51	7°♐03'26	
conjunction	-8249 Jan 29 j 19:04	10°♐13'27	-1°28'57
minimum elong	-8249 Jan 29 j 19:01	10°♐13'25	1°29'26
max. Earth dist.	-8249 Jan 31 j 07:22	10°♐34'38	6.07012 AU
morning rise	-8249 Feb 12 j 11:46	13°♐24'36	
	-8249 May 08 j 14:31	0°♑	
retrograde	-8249 Jun 22 j 10:43	3°♑06'45	
	-8249 Aug 06 j 02:34	30°℞♐	
opposition	-8249 Aug 20 j 20:38	28°♐02'04	-2°20'02
min. Earth dist.	-8249 Aug 19 j 23:12	28°♐09'24	4.09829 AU
direct	-8249 Oct 18 j 08:17	23°♐02'13	
	-8249 Dec 26 j 07:17	0°♑	
evening set	-8248 Feb 22 j 03:16	12°♑07'33	
conjunction	-8248 Mar 06 j 20:44	15°♑16'07	-1°30'16
minimum elong	-8248 Mar 06 j 20:47	15°♑16'09	1°30'47
max. Earth dist.	-8248 Mar 08 j 00:50	15°♑32'14	6.13300 AU
morning rise	-8248 Mar 20 j 14:26	18°♑24'41	
	-8248 May 14 j 19:33	0°♒	
retrograde	-8248 Jul 25 j 12:10	7°♒21'43	
opposition	-8248 Sep 22 j 14:00	2°♒19'37	-1°56'36
min. Earth dist.	-8248 Sep 22 j 02:27	2°♒23'33	4.17513 AU
	-8248 Oct 10 j 09:12	30°℞♑	
direct	-8248 Nov 21 j 01:38	27°♑16'56	
	-8247 Jan 02 j 03:35	0°♒	
	-8247 Mar 24 j 02:51	15°♒	
evening set	-8247 Mar 29 j 03:33	16°♒07'19	
conjunction	-8247 Apr 11 j 20:16	19°♒12'06	-1°00'23
minimum elong	-8247 Apr 11 j 20:21	19°♒12'09	1°00'47
max. Earth dist.	-8247 Apr 12 j 04:41	19°♒16'50	6.21818 AU
morning rise	-8247 Apr 25 j 11:24	22°♒15'54	
	-8247 May 31 j 13:16	0°♓	
retrograde	-8247 Aug 27 j 00:43	10°♓22'20	
opposition	-8247 Oct 25 j 05:56	5°♓23'58	-0°55'46
min. Earth dist.	-8247 Oct 25 j 06:34	5°♓23'45	4.26015 AU
direct	-8247 Dec 24 j 23:12	0°♓19'53	
evening set	-8246 May 02 j 14:57	18°♓50'17	
conjunction	-8246 May 16 j 02:20	21°♓49'41	-0°11'52
minimum elong	-8246 May 16 j 02:21	21°♓49'41	0°12'01
behind sun begin	-8246 May 15 j 20:49	21°♓46'37	
behind sun end	-8246 May 16 j 07:54	21°♓52'45	
max. Earth dist.	-8246 May 15 j 15:13	21°♓43'30	6.29757 AU
morning rise	-8246 May 29 j 10:31	24°♓47'24	
	-8246 Jun 22 j 14:12	0°♈	
asc. node	-8246 Aug 14 j 11:05	9°♈15'13	
retrograde	-8246 Sep 27 j 16:10	12°♈15'29	
opposition	-8246 Nov 26 j 06:36	7°♈20'46	0°20'04
min. Earth dist.	-8246 Nov 26 j 19:46	7°♈16'27	4.32724 AU
direct	-8245 Jan 27 j 03:00	2°♈17'07	
evening set	-8245 Jun 04 j 13:12	20°♈30'07	
conjunction	-8245 Jun 17 j 15:18	23°♈23'40	0°39'13
minimum elong	-8245 Jun 17 j 15:15	23°♈23'38	0°39'23
max. Earth dist.	-8245 Jun 16 j 12:02	23°♈08'34	6.34699 AU
morning rise	-8245 Jun 30 j 13:59	26°♈15'29	
	-8245 Jul 17 j 20:09	0°♉	
retrograde	-8245 Oct 29 j 00:18	13°♉27'12	
opposition	-8245 Dec 28 j 05:35	8°♉34'53	1°28'28
min. Earth dist.	-8245 Dec 29 j 03:18	8°♉27'54	4.35646 AU
direct	-8244 Feb 28 j 17:20	3°♉33'04	
	-8244 Jun 04 j 06:23	15°♉	
evening set	-8244 Jul 05 j 06:56	21°♉36'11	
conjunction	-8244 Jul 17 j 23:31	24°♉25'20	1°18'20
minimum elong	-8244 Jul 17 j 23:26	24°♉25'18	1°18'44
max. Earth dist.	-8244 Jul 16 j 14:31	24°♉06'57	6.35259 AU
morning rise	-8244 Jul 30 j 13:07	27°♉13'08	
	-8244 Aug 12 j 05:41	0°♊	
retrograde	-8244 Nov 28 j 20:03	14°♊32'33	
opposition	-8243 Jan 28 j 16:24	9°♊41'00	2°11'24
min. Earth dist.	-8243 Jan 29 j 16:32	9°♊33'21	4.33924 AU
direct	-8243 Apr 01 j 04:09	4°♊41'59	
evening set	-8243 Aug 05 j 10:30	22°♊43'59	
conjunction	-8243 Aug 17 j 20:52	25°♊31'58	1°34'59
minimum elong	-8243 Aug 17 j 20:52	25°♊31'58	1°35'32
max. Earth dist.	-8243 Aug 16 j 12:50	25°♊13'53	6.31254 AU
morning rise	-8243 Aug 30 j 06:06	28°♊19'26	
	-8243 Sep 06 j 18:21	0°♋	
retrograde	-8243 Dec 31 j 19:13	16°♋07'51	
opposition	-8242 Mar 03 j 01:52	11°♋15'08	2°16'38
min. Earth dist.	-8242 Mar 03 j 21:43	11°♋08'50	4.27931 AU
direct	-8242 May 03 j 22:22	6°♋19'00	
evening set	-8242 Sep 05 j 17:14	24°♋28'14	
max. Earth dist.	-8242 Sep 17 j 08:10	27°♋07'56	6.23761 AU
conjunction	-8242 Sep 18 j 03:48	27°♋19'12	1°23'39
minimum elong	-8242 Sep 18 j 03:51	27°♋19'14	1°24'10
	-8242 Sep 29 j 20:14	0°♌	
morning rise	-8242 Sep 30 j 14:46	0°♌10'35	
	-8242 Dec 15 j 14:39	15°♌	
retrograde	-8241 Feb 04 j 04:02	18°♌42'35	
	-8241 Mar 28 j 00:06	15°℞♌	
opposition	-8241 Apr 06 j 14:35	13°♌47'04	1°39'43
min. Earth dist.	-8241 Apr 06 j 22:48	13°♌44'26	4.19396 AU
direct	-8241 Jun 06 j 07:09	8°♌53'18	
	-8241 Aug 10 j 06:03	15°♌	
evening set	-8241 Oct 07 j 22:31	27°♌16'39	
	-8241 Oct 19 j 15:05	0°♍	
conjunction	-8241 Oct 20 j 14:50	0°♍13'52	0°45'39
minimum elong	-8241 Oct 20 j 14:54	0°♍13'54	0°45'59
max. Earth dist.	-8241 Oct 20 j 12:18	0°♍12'23	6.15000 AU
morning rise	-8241 Nov 02 j 09:34	3°♍12'27	
retrograde	-8240 Mar 10 j 23:09	22°♍31'47	
opposition	-8240 May 11 j 02:49	17°♍32'23	0°28'09
min. Earth dist.	-8240 May 10 j 20:47	17°♍34'21	4.11003 AU

Attention, astronomical year style is used: The year -8240 in astronomical counting style is the year 8241 BCE in historical counting style.

direct	-8240 Jul 09 j 12:46	12°♍39'25	
desc. node	-8240 Sep 21 j 10:21	20°♍36'47	
	-8240 Nov 03 j 22:25	0°♎	
evening set	-8240 Nov 09 j 18:19	1°♎21'36	
conjunction	-8240 Nov 22 j 19:37	4°♎25'52	-0°08'52
minimum elong	-8240 Nov 22 j 19:37	4°♎25'52	0°08'50
behind sun begin	-8240 Nov 22 j 12:34	4°♎21'44	
behind sun end	-8240 Nov 23 j 02:39	4°♎30'00	
max. Earth dist.	-8240 Nov 23 j 14:16	4°♎36'51	6.07806 AU
morning rise	-8240 Dec 06 j 00:12	7°♎32'01	
retrograde	-8239 Apr 16 j 12:43	27°♎26'58	
min. Earth dist.	-8239 Jun 15 j 08:05	22°♎30'03	4.05700 AU
opposition	-8239 Jun 16 j 02:16	22°♎23'59	-0°55'42
direct	-8239 Aug 13 j 11:48	17°♎29'59	
	-8239 Nov 16 j 20:03	0°♏	
evening set	-8239 Dec 15 j 09:47	6°♏30'22	
conjunction	-8239 Dec 28 j 19:04	9°♏39'24	-1°01'08
minimum elong	-8239 Dec 28 j 18:59	9°♏39'21	1°01'26
max. Earth dist.	-8239 Dec 30 j 03:41	9°♏58'38	6.04803 AU
morning rise	-8238 Jan 11 j 07:51	12°♏50'12	
	-8238 Jan 20 j 15:30	15°♏	
	-8238 Apr 09 j 11:42	0°♐	
retrograde	-8238 May 22 j 21:49	2°♐53'46	
	-8238 Jul 05 j 03:55	30°℞♏	
opposition	-8238 Jul 21 j 19:22	27°♏48'45	-2°00'00
min. Earth dist.	-8238 Jul 20 j 19:15	27°♏56'57	4.05450 AU
direct	-8238 Sep 17 j 21:25	22°♏51'55	
	-8238 Nov 25 j 23:38	0°♐	
evening set	-8237 Jan 21 j 07:00	12°♐01'58	
conjunction	-8237 Feb 03 j 22:05	15°♐12'14	-1°31'06
minimum elong	-8237 Feb 03 j 22:02	15°♐12'12	1°31'37
max. Earth dist.	-8237 Feb 05 j 11:23	15°♐33'58	6.07200 AU
morning rise	-8237 Feb 17 j 15:04	18°♐23'25	
	-8237 Apr 12 j 20:41	0°♑	
retrograde	-8237 Jun 27 j 07:50	8°♑02'12	
opposition	-8237 Aug 25 j 14:38	2°♑57'44	-2°19'34
min. Earth dist.	-8237 Aug 24 j 18:31	3°♑04'38	4.10334 AU
	-8237 Sep 17 j 20:36	30°℞♐	
direct	-8237 Oct 23 j 04:31	27°♐57'28	
	-8237 Nov 27 j 18:53	0°♑	
evening set	-8236 Feb 27 j 05:28	17°♑02'41	
conjunction	-8236 Mar 11 j 23:05	20°♑11'01	-1°27'41
minimum elong	-8236 Mar 11 j 23:09	20°♑11'03	1°28'13
max. Earth dist.	-8236 Mar 13 j 00:58	20°♑25'50	6.14082 AU
morning rise	-8236 Mar 25 j 16:53	23°♑19'15	
	-8236 Apr 25 j 01:29	0°♒	
retrograde	-8236 Jul 30 j 02:16	12°♒10'06	
opposition	-8236 Sep 27 j 05:09	7°♒08'22	-1°49'47
min. Earth dist.	-8236 Sep 26 j 18:06	7°♒12'08	4.18489 AU
direct	-8236 Nov 25 j 19:55	2°♒05'22	
	-8235 Mar 06 j 23:34	15°♒	
evening set	-8235 Apr 03 j 01:45	20°♒53'32	
conjunction	-8235 Apr 16 j 18:04	23°♒57'42	-0°54'17
minimum elong	-8235 Apr 16 j 18:09	23°♒57'44	0°54'39
max. Earth dist.	-8235 Apr 17 j 00:34	24°♒01'21	6.22927 AU
morning rise	-8235 Apr 30 j 08:28	27°♒00'44	
	-8235 May 13 j 21:19	0°♓	
retrograde	-8235 Aug 31 j 13:04	15°♓00'52	
opposition	-8235 Oct 29 j 18:37	10°♓02'58	-0°45'26
min. Earth dist.	-8235 Oct 29 j 21:14	10°♓02'05	4.27118 AU
direct	-8235 Dec 29 j 16:45	4°♓58'50	
evening set	-8234 May 07 j 07:43	23°♓26'06	

conjunction	-8234 May 20 j 17:59	26°♓24'38	-0°04'31
minimum elong	-8234 May 20 j 18:00	26°♓24'38	0°04'37
behind sun begin	-8234 May 20 j 09:59	26°♓20'12	
behind sun end	-8234 May 21 j 02:01	26°♓29'04	
max. Earth dist.	-8234 May 20 j 04:24	26°♓17'06	6.30745 AU
morning rise	-8234 Jun 03 j 00:58	29°♓21'27	
	-8234 Jun 05 j 22:59	0°♈	
asc. node	-8234 Jun 23 j 20:25	3°♈51'36	
retrograde	-8234 Oct 02 j 00:07	16°♈45'23	
opposition	-8234 Nov 30 j 17:35	11°♈50'59	0°30'34
min. Earth dist.	-8234 Dec 01 j 07:40	11°♈46'23	4.33508 AU
direct	-8233 Jan 31 j 16:45	6°♈47'28	
evening set	-8233 Jun 09 j 00:56	24°♈58'05	
max. Earth dist.	-8233 Jun 20 j 21:39	27°♈35'18	6.35199 AU
conjunction	-8233 Jun 22 j 01:39	27°♈50'49	0°45'41
minimum elong	-8233 Jun 22 j 01:35	27°♈50'47	0°45'53
	-8233 Jul 01 j 18:57	0°♉	
morning rise	-8233 Jul 04 j 22:52	0°♉41'50	
	-8233 Sep 19 j 19:02	15°♉	
retrograde	-8233 Nov 02 j 09:28	17°♉52'42	
	-8233 Dec 16 j 17:21	15°℞♉	
opposition	-8232 Jan 01 j 16:59	13°♉00'38	1°36'18
min. Earth dist.	-8232 Jan 02 j 15:42	12°♉53'20	4.35819 AU
direct	-8232 Mar 04 j 06:22	7°♉59'11	
	-8232 May 16 j 04:09	15°♉	
evening set	-8232 Jul 09 j 15:16	26°♉01'10	
max. Earth dist.	-8232 Jul 20 j 19:47	28°♉30'28	6.35055 AU
conjunction	-8232 Jul 22 j 06:36	28°♉49'53	1°22'10
minimum elong	-8232 Jul 22 j 06:32	28°♉49'51	1°22'36
	-8232 Jul 27 j 12:18	0°♊	
morning rise	-8232 Aug 03 j 19:25	1°♊37'23	
retrograde	-8232 Dec 03 j 08:07	18°♊59'28	
opposition	-8231 Feb 02 j 06:09	14°♊07'52	2°14'34
min. Earth dist.	-8231 Feb 03 j 06:20	14°♊00'11	4.33364 AU
direct	-8231 Apr 05 j 16:43	9°♊09'12	
evening set	-8231 Aug 09 j 18:01	27°♊11'43	
max. Earth dist.	-8231 Aug 20 j 22:14	29°♊42'58	6.30380 AU
conjunction	-8231 Aug 22 j 04:10	29°♊59'54	1°35'07
minimum elong	-8231 Aug 22 j 04:10	29°♊59'54	1°35'39
	-8231 Aug 22 j 04:21	0°♋	
morning rise	-8231 Sep 03 j 13:05	2°♋47'38	
retrograde	-8230 Jan 05 j 11:10	20°♋41'28	
opposition	-8230 Mar 07 j 19:05	15°♋48'32	2°13'59
min. Earth dist.	-8230 Mar 08 j 13:51	15°♋42'35	4.26797 AU
direct	-8230 May 08 j 12:09	10°♋52'50	
evening set	-8230 Sep 10 j 03:05	29°♋04'01	
	-8230 Sep 14 j 04:52	0°♌	
conjunction	-8230 Sep 22 j 14:01	1°♌55'43	1°19'49
minimum elong	-8230 Sep 22 j 14:05	1°♌55'45	1°20'19
max. Earth dist.	-8230 Sep 21 j 19:09	1°♌44'51	6.22463 AU
morning rise	-8230 Oct 05 j 01:55	4°♌48'02	
	-8230 Nov 21 j 20:46	15°♌	
retrograde	-8229 Feb 09 j 02:33	23°♌27'11	
opposition	-8229 Apr 11 j 11:57	18°♌31'12	1°31'28
min. Earth dist.	-8229 Apr 11 j 18:25	18°♌29'07	4.18007 AU
	-8229 May 12 j 05:12	15°℞♌	
direct	-8229 Jun 10 j 23:59	13°♌37'38	
	-8229 Jul 10 j 12:57	15°♌	
	-8229 Oct 03 j 13:57	0°♍	
evening set	-8229 Oct 12 j 13:07	2°♍04'05	
conjunction	-8229 Oct 25 j 06:47	5°♍02'26	0°38'41
minimum elong	-8229 Oct 25 j 06:50	5°♍02'28	0°38'57

Attention, astronomical year style is used: The year -8229 in astronomical counting style is the year 8230 BCE in historical counting style.

max. Earth dist.	-8229 Oct 25 j 08:08	5°♍03'13	6.13674 AU
morning rise	-8229 Nov 07 j 02:47	8°♍02'13	
retrograde	-8228 Mar 16 j 01:48	27°♍28'20	
opposition	-8228 May 16 j 03:26	22°♍28'29	0°16'28
min. Earth dist.	-8228 May 15 j 19:35	22°♍31'03	4.09863 AU
direct	-8228 Jul 14 j 08:43	17°♍35'36	
desc. node	-8228 Aug 01 j 07:27	18°♍07'38	
	-8228 Oct 17 j 18:20	0°♎	
evening set	-8228 Nov 14 j 15:55	6°♎21'12	
conjunction	-8228 Nov 27 j 18:19	9°♎26'23	-0°16'48
minimum elong	-8228 Nov 27 j 18:17	9°♎26'22	0°16'49
max. Earth dist.	-8228 Nov 28 j 14:32	9°♎38'18	6.06963 AU
morning rise	-8228 Dec 11 j 00:21	12°♎33'30	
	-8227 Mar 11 j 19:54	0°♏	
retrograde	-8227 Apr 21 j 15:23	2°♏32'08	
	-8227 Jun 01 j 09:31	30°℞♎	
min. Earth dist.	-8227 Jun 20 j 07:05	27°♎35'37	4.05281 AU
opposition	-8227 Jun 21 j 03:31	27°♎28'46	-1°06'38
direct	-8227 Aug 18 j 10:48	22°♎34'32	
	-8227 Oct 27 j 21:25	0°♏	
evening set	-8227 Dec 20 j 13:04	11°♏37'10	
conjunction	-8226 Jan 02 j 23:28	14°♏46'37	-1°07'04
minimum elong	-8226 Jan 02 j 23:23	14°♏46'34	1°07'24
	-8226 Jan 03 j 22:12	15°♏	
max. Earth dist.	-8226 Jan 04 j 11:30	15°♏07'49	6.04871 AU
morning rise	-8226 Jan 16 j 12:53	17°♏57'40	
	-8226 Mar 13 j 10:43	0°♐	
retrograde	-8226 May 28 j 00:06	7°♐59'19	
opposition	-8226 Jul 26 j 18:22	2°♐54'15	-2°05'44
min. Earth dist.	-8226 Jul 25 j 18:28	3°♐02'23	4.06040 AU
	-8226 Aug 18 j 15:11	30°℞♏	
direct	-8226 Sep 22 j 21:36	27°♏57'01	
	-8226 Oct 28 j 04:37	0°♐	
evening set	-8225 Jan 26 j 11:44	17°♐06'18	
conjunction	-8225 Feb 09 j 03:11	20°♐16'17	-1°32'40
minimum elong	-8225 Feb 09 j 03:10	20°♐16'16	1°33'11
max. Earth dist.	-8225 Feb 10 j 15:45	20°♐37'31	6.08242 AU
morning rise	-8225 Feb 22 j 20:34	23°♐27'05	
	-8225 Mar 24 j 03:11	0°♑	
retrograde	-8225 Jul 02 j 01:12	12°♑58'45	
opposition	-8225 Aug 30 j 08:41	7°♑54'30	-2°18'06
min. Earth dist.	-8225 Aug 29 j 12:21	8°♑01'28	4.11736 AU
direct	-8225 Oct 28 j 00:52	2°♑53'47	
evening set	-8224 Mar 03 j 06:22	21°♑55'27	
conjunction	-8224 Mar 16 j 23:57	25°♑03'04	-1°24'34
minimum elong	-8224 Mar 17 j 00:01	25°♑03'06	1°25'06
max. Earth dist.	-8224 Mar 17 j 23:28	25°♑16'29	6.15724 AU
morning rise	-8224 Mar 30 j 17:23	28°♑10'24	
	-8224 Apr 07 j 20:18	0°♒	
	-8224 Jun 30 j 10:11	15°♒	
retrograde	-8224 Aug 03 j 15:07	16°♒52'12	
	-8224 Sep 06 j 13:13	15°℞♒	
opposition	-8224 Oct 01 j 17:47	11°♒50'57	-1°42'25
min. Earth dist.	-8224 Oct 01 j 09:20	11°♒53'49	4.20183 AU
direct	-8224 Nov 30 j 14:14	6°♒47'39	
	-8223 Feb 16 j 04:44	15°♒	
evening set	-8223 Apr 07 j 20:03	25°♒31'09	
conjunction	-8223 Apr 21 j 11:48	28°♒34'24	-0°48'04
minimum elong	-8223 Apr 21 j 11:53	28°♒34'27	0°48'25
max. Earth dist.	-8223 Apr 21 j 15:33	28°♒36'30	6.24538 AU
	-8223 Apr 27 j 20:35	0°♓	
morning rise	-8223 May 05 j 01:18	1°♓36'24	

retrograde	-8223 Sep 04 j 18:32	19°♓29'03	
opposition	-8223 Nov 03 j 02:50	14°♓31'39	-0°35'15
min. Earth dist.	-8223 Nov 03 j 06:46	14°♓30'20	4.28506 AU
direct	-8222 Jan 03 j 04:41	9°♓27'26	
asc. node	-8222 May 05 j 00:08	26°♓21'37	
evening set	-8222 May 11 j 19:32	27°♓51'01	
	-8222 May 21 j 12:54	0°♈	
max. Earth dist.	-8222 May 24 j 11:20	0°♈39'05	6.31797 AU
conjunction	-8222 May 25 j 04:34	0°♈48'38	0°02'42
minimum elong	-8222 May 25 j 04:32	0°♈48'37	0°02'38
behind sun begin	-8222 May 24 j 20:22	0°♈44'07	
behind sun end	-8222 May 25 j 12:42	0°♈53'08	
morning rise	-8222 Jun 07 j 10:18	3°♈44'30	
retrograde	-8222 Oct 06 j 06:09	21°♈04'44	
opposition	-8222 Dec 05 j 00:30	16°♈10'45	0°40'26
min. Earth dist.	-8222 Dec 05 j 17:22	16°♈05'15	4.34147 AU
direct	-8221 Feb 05 j 03:29	11°♈07'22	
evening set	-8221 Jun 13 j 08:03	29°♈16'18	
	-8221 Jun 16 j 15:25	0°♉	
max. Earth dist.	-8221 Jun 25 j 00:54	1°♉51'27	6.35343 AU
conjunction	-8221 Jun 26 j 07:30	2°♉08'25	0°51'37
minimum elong	-8221 Jun 26 j 07:25	2°♉08'22	0°51'51
morning rise	-8221 Jul 09 j 03:28	4°♉58'50	
	-8221 Aug 27 j 03:00	15°♉	
retrograde	-8221 Nov 06 j 15:22	22°♉10'26	
opposition	-8220 Jan 06 j 01:10	17°♉18'30	1°43'21
min. Earth dist.	-8220 Jan 07 j 00:34	17°♉11'00	4.35492 AU
	-8220 Jan 24 j 18:55	15°℞♉	
direct	-8220 Mar 08 j 14:05	12°♉17'18	
	-8220 Apr 21 j 06:15	15°♉	
	-8220 Jul 12 j 08:37	0°♊	
evening set	-8220 Jul 13 j 20:49	0°♊20'03	
max. Earth dist.	-8220 Jul 25 j 00:41	2°♊49'18	6.34268 AU
conjunction	-8220 Jul 26 j 11:16	3°♊08'39	1°25'25
minimum elong	-8220 Jul 26 j 11:12	3°♊08'37	1°25'53
morning rise	-8220 Aug 07 j 23:12	5°♊56'06	
retrograde	-8220 Dec 07 j 19:35	23°♊22'50	
opposition	-8219 Feb 06 j 18:18	18°♊31'12	2°16'54
min. Earth dist.	-8219 Feb 07 j 19:01	18°♊23'22	4.32179 AU
direct	-8219 Apr 10 j 03:13	13°♊32'55	
	-8219 Aug 06 j 17:39	0°♋	
evening set	-8219 Aug 14 j 00:52	1°♋38'03	
max. Earth dist.	-8219 Aug 25 j 04:28	4°♋09'32	6.28877 AU
conjunction	-8219 Aug 26 j 10:46	4°♋26'44	1°34'40
minimum elong	-8219 Aug 26 j 10:47	4°♋26'44	1°35'12
morning rise	-8219 Sep 07 j 19:58	7°♋15'09	
retrograde	-8218 Jan 10 j 05:02	25°♋16'36	
opposition	-8218 Mar 12 j 12:58	20°♋23'18	2°10'29
min. Earth dist.	-8218 Mar 13 j 06:00	20°♋17'52	4.25084 AU
direct	-8218 May 13 j 01:10	15°♋27'54	
	-8218 Aug 29 j 03:10	0°♌	
evening set	-8218 Sep 14 j 13:54	3°♌42'50	
max. Earth dist.	-8218 Sep 26 j 10:56	6°♌27'04	6.20707 AU
conjunction	-8218 Sep 27 j 01:44	6°♌35'37	1°15'24
minimum elong	-8218 Sep 27 j 01:49	6°♌35'39	1°15'53
morning rise	-8218 Oct 09 j 14:28	9°♌29'04	
	-8218 Nov 03 j 05:45	15°♌	
retrograde	-8217 Feb 14 j 03:34	28°♌16'44	
opposition	-8217 Apr 16 j 11:22	23°♌20'14	1°22'25
min. Earth dist.	-8217 Apr 16 j 15:57	23°♌18'46	4.16340 AU
direct	-8217 Jun 15 j 18:47	18°♌26'55	
	-8217 Sep 16 j 07:39	0°♍	

Attention, astronomical year style is used: The year -8217 in astronomical counting style is the year 8218 BCE in historical counting style.

evening set	-8217 Oct 17 j 06:34	6°♍57'13	
conjunction	-8217 Oct 30 j 01:18	9°♍56'42	0°31'16
minimum elong	-8217 Oct 30 j 01:20	9°♍56'44	0°31'31
max. Earth dist.	-8217 Oct 30 j 04:57	9°♍58'51	6.12248 AU
morning rise	-8217 Nov 11 j 22:54	12°♍57'47	
	-8216 Feb 09 j 07:42	0°♎	
retrograde	-8216 Mar 21 j 05:01	2°♎30'29	
	-8216 May 01 j 06:21	30°℞♍	
opposition	-8216 May 21 j 05:54	27°♍29'59	0°04'24
min. Earth dist.	-8216 May 20 j 18:47	27°♍33'38	4.08808 AU
desc. node	-8216 Jun 10 j 17:43	24°♍56'53	
direct	-8216 Jul 19 j 06:48	22°♍37'01	
	-8216 Sep 27 j 22:02	0°♎	
evening set	-8216 Nov 19 j 15:54	11°♎25'31	
conjunction	-8216 Dec 02 j 19:42	14°♎31'32	-0°24'46
minimum elong	-8216 Dec 02 j 19:40	14°♎31'30	0°24'51
max. Earth dist.	-8216 Dec 03 j 20:45	14°♎46'19	6.06364 AU
morning rise	-8216 Dec 16 j 02:49	17°♎39'24	
	-8215 Feb 11 j 14:36	0°♏	
retrograde	-8215 Apr 26 j 21:18	7°♏40'03	
min. Earth dist.	-8215 Jun 25 j 08:51	2°♏43'19	4.05193 AU
opposition	-8215 Jun 26 j 05:53	2°♏36'15	-1°17'11
	-8215 Jul 16 j 17:42	30°℞♎	
direct	-8215 Aug 23 j 12:22	27°♎41'40	
	-8215 Sep 29 j 23:16	0°♏	
	-8215 Dec 18 j 04:38	15°♏	
evening set	-8215 Dec 25 j 17:34	16°♏45'10	
conjunction	-8214 Jan 08 j 04:39	19°♏54'45	-1°12'33
minimum elong	-8214 Jan 08 j 04:34	19°♏54'42	1°12'55
max. Earth dist.	-8214 Jan 09 j 17:22	20°♏16'19	6.05241 AU
morning rise	-8214 Jan 21 j 18:57	23°♏05'54	
	-8214 Feb 21 j 08:42	0°♐	
retrograde	-8214 Jun 01 j 23:25	13°♐04'08	
opposition	-8214 Jul 31 j 17:02	7°♐58'59	-2°10'32
min. Earth dist.	-8214 Jul 30 j 16:12	8°♐07'27	4.06837 AU
direct	-8214 Sep 27 j 20:15	3°♐01'16	
evening set	-8213 Jan 31 j 16:30	22°♐09'18	
conjunction	-8213 Feb 14 j 08:23	25°♐18'56	-1°33'35
minimum elong	-8213 Feb 14 j 08:23	25°♐18'56	1°34'06
max. Earth dist.	-8213 Feb 15 j 19:37	25°♐39'21	6.09367 AU
morning rise	-8213 Feb 28 j 01:52	28°♐29'15	
	-8213 Mar 06 j 16:38	0°♑	
retrograde	-8213 Jul 06 j 20:18	17°♑53'45	
min. Earth dist.	-8213 Sep 03 j 08:21	12°♑56'01	4.13056 AU
opposition	-8213 Sep 04 j 02:25	12°♑49'50	-2°15'43
direct	-8213 Nov 01 j 23:10	7°♑48'42	
evening set	-8212 Mar 08 j 07:20	26°♑47'27	
conjunction	-8212 Mar 22 j 01:00	29°♑54'29	-1°20'55
minimum elong	-8212 Mar 22 j 01:05	29°♑54'31	1°21'25
	-8212 Mar 22 j 10:43	0°♒	
max. Earth dist.	-8212 Mar 22 j 22:34	0°♒06'44	6.17142 AU
morning rise	-8212 Apr 04 j 18:03	3°♒01'04	
	-8212 Jun 01 j 20:15	15°♒	
retrograde	-8212 Aug 08 j 03:11	21°♒34'56	
opposition	-8212 Oct 06 j 06:56	16°♒34'15	-1°34'27
min. Earth dist.	-8212 Oct 05 j 23:33	16°♒36'46	4.21566 AU
	-8212 Oct 18 j 02:35	15°℞♒	
direct	-8212 Dec 05 j 06:48	11°♒30'47	
	-8211 Jan 22 j 18:59	15°♒	
	-8211 Apr 11 j 19:32	0°♓	
evening set	-8211 Apr 12 j 15:26	0°♓11'02	
conjunction	-8211 Apr 26 j 06:23	3°♓13'29	-0°41'31
minimum elong	-8211 Apr 26 j 06:27	3°♓13'31	0°41'49
max. Earth dist.	-8211 Apr 26 j 05:36	3°♓13'03	6.25793 AU
morning rise	-8211 May 09 j 19:08	6°♓14'39	
retrograde	-8211 Sep 09 j 05:12	24°♓01'29	
opposition	-8211 Nov 07 j 13:31	19°♓04'40	-0°24'45
min. Earth dist.	-8211 Nov 07 j 20:26	19°♓02'22	4.29526 AU
direct	-8210 Jan 07 j 20:25	14°♓00'29	
asc. node	-8210 Mar 15 j 00:30	19°♓59'39	
	-8210 May 05 j 13:37	0°♈	
evening set	-8210 May 16 j 09:31	2°♈21'40	
conjunction	-8210 May 29 j 17:28	5°♈18'31	0°09'54
minimum elong	-8210 May 29 j 17:27	5°♈18'31	0°09'54
behind sun begin	-8210 May 29 j 10:52	5°♈14'52	
behind sun end	-8210 May 30 j 00:03	5°♈22'09	
max. Earth dist.	-8210 May 28 j 22:26	5°♈07'58	6.32510 AU
morning rise	-8210 Jun 11 j 21:50	8°♈13'35	
retrograde	-8210 Oct 10 j 13:28	25°♈31'24	
opposition	-8210 Dec 09 j 10:32	20°♈37'51	0°50'21
min. Earth dist.	-8210 Dec 10 j 04:01	20°♈32'10	4.34529 AU
direct	-8209 Feb 09 j 14:35	15°♈34'44	
	-8209 May 31 j 14:49	0°♉	
evening set	-8209 Jun 17 j 18:29	3°♉42'47	
max. Earth dist.	-8209 Jun 29 j 08:09	6°♉16'21	6.35360 AU
conjunction	-8209 Jun 30 j 16:29	6°♉34'18	0°57'29
minimum elong	-8209 Jun 30 j 16:24	6°♉34'16	0°57'45
morning rise	-8209 Jul 13 j 11:15	9°♉24'12	
	-8209 Aug 08 j 13:12	15°♉	
retrograde	-8209 Nov 11 j 02:55	26°♉37'01	
opposition	-8208 Jan 10 j 13:19	21°♉45'20	1°50'06
min. Earth dist.	-8208 Jan 11 j 14:15	21°♉37'22	4.35161 AU
direct	-8208 Mar 13 j 03:12	16°♉44'33	
	-8208 Jun 26 j 03:06	0°♊	
evening set	-8208 Jul 18 j 05:22	4°♊47'45	
max. Earth dist.	-8208 Jul 29 j 08:03	7°♊16'40	6.33599 AU
conjunction	-8208 Jul 30 j 18:56	7°♊36'13	1°28'19
minimum elong	-8208 Jul 30 j 18:53	7°♊36'11	1°28'48
morning rise	-8208 Aug 12 j 06:12	10°♊23'39	
retrograde	-8208 Dec 12 j 09:30	27°♊54'47	
opposition	-8207 Feb 11 j 10:06	23°♊03'02	2°18'33
min. Earth dist.	-8207 Feb 12 j 09:20	22°♊55'40	4.31249 AU
direct	-8207 Apr 14 j 15:36	18°♊05'14	
	-8207 Jul 21 j 01:07	0°♋	
evening set	-8207 Aug 18 j 10:10	6°♋11'51	
conjunction	-8207 Aug 30 j 20:01	9°♋00'54	1°33'40
minimum elong	-8207 Aug 30 j 20:02	9°♋00'55	1°34'12
max. Earth dist.	-8207 Aug 29 j 16:37	8°♋45'18	6.27782 AU
morning rise	-8207 Sep 12 j 05:12	11°♋49'48	
retrograde	-8206 Jan 15 j 01:27	29°♋57'26	
opposition	-8206 Mar 17 j 09:01	25°♋03'50	2°06'08
min. Earth dist.	-8206 Mar 18 j 01:02	24°♋58'45	4.23905 AU
direct	-8206 May 17 j 18:17	20°♋08'53	
	-8206 Aug 11 j 11:14	0°♌	
evening set	-8206 Sep 19 j 02:12	8°♌25'35	
conjunction	-8206 Oct 01 j 14:37	11°♌19'08	1°10'30
minimum elong	-8206 Oct 01 j 14:41	11°♌19'11	1°10'57
max. Earth dist.	-8206 Oct 01 j 01:28	11°♌11'31	6.19566 AU
morning rise	-8206 Oct 14 j 04:28	14°♌13'33	
	-8206 Oct 17 j 13:24	15°♌	
	-8205 Jan 03 j 23:42	0°♍	
retrograde	-8205 Feb 19 j 01:42	3°♍07'21	
	-8205 Apr 06 j 21:28	30°℞♌	

Attention, astronomical year style is used: The year -8205 in astronomical counting style is the year 8206 BCE in historical counting style.

opposition	-8205 Apr 21 j 10:31	28°♌10'16	1°12'49
min. Earth dist.	-8205 Apr 21 j 11:47	28°♌09'52	4.15326 AU
direct	-8205 Jun 20 j 13:01	23°♌17'08	
	-8205 Aug 27 j 10:05	0°♍	
evening set	-8205 Oct 21 j 23:11	11°♍49'06	
conjunction	-8205 Nov 03 j 19:13	14°♍49'28	0°23'46
minimum elong	-8205 Nov 03 j 19:16	14°♍49'29	0°23'59
max. Earth dist.	-8205 Nov 04 j 03:25	14°♍54'16	6.11468 AU
morning rise	-8205 Nov 16 j 17:59	17°♍51'26	
	-8204 Jan 12 j 16:35	0°♎	
retrograde	-8204 Mar 26 j 07:46	7°♎28'15	
desc. node	-8204 Apr 21 j 14:12	6°♎23'37	
opposition	-8204 May 26 j 06:10	2°♎27'13	-0°07'26
min. Earth dist.	-8204 May 25 j 18:04	2°♎31'13	4.08321 AU
	-8204 Jun 14 j 19:23	30°℞♍	
direct	-8204 Jul 24 j 05:16	27°♍34'07	
	-8204 Sep 01 j 00:03	0°♎	
evening set	-8204 Nov 24 j 13:36	16°♎23'46	
conjunction	-8204 Dec 07 j 18:20	19°♎30'17	-0°32'20
minimum elong	-8204 Dec 07 j 18:17	19°♎30'15	0°32'28
max. Earth dist.	-8204 Dec 08 j 20:43	19°♎45'50	6.06194 AU
morning rise	-8204 Dec 21 j 02:41	22°♎38'41	
	-8203 Jan 22 j 16:26	0°♏	
retrograde	-8203 May 01 j 20:18	12°♏39'38	
min. Earth dist.	-8203 Jun 30 j 05:19	7°♏43'09	4.05382 AU
opposition	-8203 Jul 01 j 04:04	7°♏35'30	-1°26'48
direct	-8203 Aug 28 j 08:27	2°♏40'30	
	-8203 Dec 01 j 00:15	15°♏	
evening set	-8203 Dec 30 j 18:35	21°♏44'21	
conjunction	-8202 Jan 13 j 06:27	24°♏53'58	-1°17'18
minimum elong	-8202 Jan 13 j 06:22	24°♏53'55	1°17'43
max. Earth dist.	-8202 Jan 14 j 19:26	25°♏15'40	6.05741 AU
morning rise	-8202 Jan 26 j 21:14	28°♏05'04	
	-8202 Feb 04 j 04:07	0°♐	
retrograde	-8202 Jun 06 j 19:55	17°♐59'34	
opposition	-8202 Aug 05 j 11:34	12°♐54'24	-2°14'15
min. Earth dist.	-8202 Aug 04 j 12:16	13°♐02'22	4.07595 AU
direct	-8202 Oct 02 j 17:23	7°♐56'09	
evening set	-8201 Feb 05 j 17:24	27°♐03'14	
	-8201 Feb 18 j 11:55	0°♑	
conjunction	-8201 Feb 19 j 09:47	0°♑12'38	-1°33'48
minimum elong	-8201 Feb 19 j 09:47	0°♑12'38	1°34'20
max. Earth dist.	-8201 Feb 20 j 20:10	0°♑32'30	6.10307 AU
morning rise	-8201 Mar 05 j 03:22	3°♑22'33	
retrograde	-8201 Jul 11 j 11:30	22°♑40'40	
opposition	-8201 Sep 08 j 16:48	17°♑37'08	-2°12'32
min. Earth dist.	-8201 Sep 07 j 23:42	17°♑42'59	4.14090 AU
direct	-8201 Nov 06 j 15:53	12°♑35'36	
	-8200 Mar 06 j 08:22	0°♒	
evening set	-8200 Mar 13 j 05:19	1°♒32'30	
conjunction	-8200 Mar 26 j 22:46	4°♒39'03	-1°16'49
minimum elong	-8200 Mar 26 j 22:51	4°♒39'06	1°17'18
max. Earth dist.	-8200 Mar 27 j 15:45	4°♒48'41	6.18185 AU
morning rise	-8200 Apr 09 j 15:38	7°♒45'05	
	-8200 May 13 j 01:29	15°♒	
retrograde	-8200 Aug 12 j 15:13	26°♒12'41	
opposition	-8200 Oct 10 j 18:21	21°♒12'31	-1°26'05
min. Earth dist.	-8200 Oct 10 j 13:45	21°♒14'04	4.22515 AU
direct	-8200 Dec 09 j 23:14	16°♒08'48	
	-8199 Mar 26 j 08:28	0°♓	
evening set	-8199 Apr 17 j 09:07	4°♓47'14	

conjunction	-8199 Apr 30 j 23:35	7°♓49'08	-0°34'48
minimum elong	-8199 Apr 30 j 23:39	7°♓49'10	0°35'04
max. Earth dist.	-8199 Apr 30 j 21:11	7°♓47'47	6.26602 AU
morning rise	-8199 May 14 j 11:17	10°♓49'35	
retrograde	-8199 Sep 13 j 13:41	28°♓32'09	
opposition	-8199 Nov 11 j 23:30	23°♓35'50	-0°14'12
min. Earth dist.	-8199 Nov 12 j 07:24	23°♓33'14	4.30141 AU
direct	-8198 Jan 12 j 08:35	18°♓31'44	
asc. node	-8198 Jan 23 j 16:00	18°♓43'34	
	-8198 Apr 18 j 14:13	0°♈	
evening set	-8198 May 20 j 23:20	6°♈51'44	
max. Earth dist.	-8198 Jun 02 j 07:35	9°♈35'31	6.32888 AU
conjunction	-8198 Jun 03 j 05:55	9°♈47'54	0°17'03
minimum elong	-8198 Jun 03 j 05:53	9°♈47'53	0°17'04
morning rise	-8198 Jun 16 j 09:11	12°♈42'20	
retrograde	-8198 Oct 15 j 00:05	29°♈58'52	
opposition	-8198 Dec 13 j 21:36	25°♈05'40	1°00'00
min. Earth dist.	-8198 Dec 14 j 17:05	24°♈59'21	4.34664 AU
direct	-8197 Feb 14 j 04:19	20°♈02'48	
	-8197 May 14 j 03:44	0°♉	
evening set	-8197 Jun 22 j 05:04	8°♉10'21	
max. Earth dist.	-8197 Jul 03 j 18:01	10°♉43'40	6.35233 AU
conjunction	-8197 Jul 05 j 01:55	11°♉01'23	1°03'01
minimum elong	-8197 Jul 05 j 01:50	11°♉01'20	1°03'20
morning rise	-8197 Jul 17 j 19:20	13°♉50'48	
	-8197 Jul 23 j 01:08	15°♉	
	-8197 Oct 20 j 03:33	0°♊	
retrograde	-8197 Nov 15 j 13:14	1°♊05'13	
	-8197 Dec 12 j 02:15	30°℞♉	
opposition	-8196 Jan 15 j 02:32	26°♉13'36	1°56'13
min. Earth dist.	-8196 Jan 16 j 02:26	26°♉05'58	4.34813 AU
direct	-8196 Mar 17 j 15:01	21°♉13'14	
	-8196 Jun 08 j 03:32	0°♊	
evening set	-8196 Jul 22 j 14:37	9°♊16'32	
max. Earth dist.	-8196 Aug 02 j 17:09	11°♊45'41	6.33045 AU
conjunction	-8196 Aug 04 j 03:12	12°♊04'48	1°30'43
minimum elong	-8196 Aug 04 j 03:10	12°♊04'47	1°31'12
morning rise	-8196 Aug 16 j 13:50	14°♊52'10	
	-8196 Nov 06 j 13:00	0°♋	
retrograde	-8196 Dec 17 j 01:24	2°♋27'06	
	-8195 Jan 27 j 03:22	30°℞♊	
opposition	-8195 Feb 16 j 02:32	27°♊35'13	2°19'21
min. Earth dist.	-8195 Feb 17 j 01:48	27°♊27'50	4.30515 AU
direct	-8195 Apr 19 j 07:01	22°♊37'49	
	-8195 Jul 02 j 03:37	0°♋	
evening set	-8195 Aug 22 j 19:23	10°♋44'55	
max. Earth dist.	-8195 Sep 03 j 03:05	13°♋19'25	6.26912 AU
conjunction	-8195 Sep 04 j 05:13	13°♋34'19	1°32'07
minimum elong	-8195 Sep 04 j 05:15	13°♋34'20	1°32'40
morning rise	-8195 Sep 16 j 14:43	16°♋23'42	
	-8195 Nov 24 j 01:30	0°♌	
retrograde	-8194 Jan 19 j 19:02	4°♌36'38	
	-8194 Mar 19 j 21:47	30°℞♋	
opposition	-8194 Mar 22 j 04:34	29°♋42'34	2°00'58
min. Earth dist.	-8194 Mar 22 j 17:50	29°♋38'21	4.22944 AU
direct	-8194 May 22 j 09:16	24°♋47'57	
	-8194 Jul 21 j 09:36	0°♌	
evening set	-8194 Sep 23 j 13:38	13°♌05'43	
	-8194 Oct 01 j 19:24	15°♌	
conjunction	-8194 Oct 06 j 02:52	16°♌00'02	1°05'12
minimum elong	-8194 Oct 06 j 02:57	16°♌00'05	1°05'36
max. Earth dist.	-8194 Oct 05 j 17:08	15°♌54'23	6.18597 AU

Attention, astronomical year style is used: The year -8194 in astronomical counting style is the year 8195 BCE in historical counting style.

morning rise	-8194 Oct 18 j 17:36	18°♌55'18	
	-8194 Dec 09 j 18:06	0°♍	
retrograde	-8193 Feb 24 j 01:23	7°♍54'48	
opposition	-8193 Apr 26 j 08:39	2°♍57'13	1°02'48
min. Earth dist.	-8193 Apr 26 j 09:02	2°♍57'06	4.14392 AU
	-8193 May 20 j 23:00	30°℞♌	
direct	-8193 Jun 25 j 08:32	28°♌04'11	
	-8193 Jul 30 j 05:44	0°♍	
evening set	-8193 Oct 26 j 15:16	16°♍37'57	
conjunction	-8193 Nov 08 j 12:24	19°♍39'10	0°16'10
minimum elong	-8193 Nov 08 j 12:25	19°♍39'11	0°16'20
max. Earth dist.	-8193 Nov 08 j 22:15	19°♍44'57	6.10658 AU
morning rise	-8193 Nov 21 j 12:37	22°♍42'07	
	-8193 Dec 23 j 23:37	0°♎	
desc. node	-8192 Mar 02 j 13:32	11°♎06'44	
retrograde	-8192 Mar 31 j 07:33	12°♎23'12	
opposition	-8192 May 31 j 04:53	7°♎21'42	-0°19'09
min. Earth dist.	-8192 May 30 j 14:25	7°♎26'29	4.07720 AU
direct	-8192 Jul 28 j 23:44	2°♎28'28	
evening set	-8192 Nov 29 j 11:07	21°♎20'18	
conjunction	-8192 Dec 12 j 17:00	24°♎27'26	-0°39'39
minimum elong	-8192 Dec 12 j 16:56	24°♎27'24	0°39'48
max. Earth dist.	-8192 Dec 13 j 21:14	24°♎44'06	6.05844 AU
morning rise	-8192 Dec 26 j 02:21	27°♎36'26	
	-8191 Jan 05 j 09:46	0°♏	
	-8191 Mar 26 j 06:23	15°♏	
retrograde	-8191 May 06 j 20:56	17°♏38'38	
	-8191 Jun 17 j 06:24	15°℞♏	
min. Earth dist.	-8191 Jul 05 j 03:28	12°♏41'47	4.05321 AU
opposition	-8191 Jul 06 j 01:54	12°♏34'12	-1°35'48
direct	-8191 Sep 02 j 05:55	7°♏38'49	
	-8191 Nov 11 j 08:24	15°♏	
evening set	-8190 Jan 04 j 20:04	26°♏44'12	
conjunction	-8190 Jan 18 j 08:48	29°♏54'04	-1°21'31
minimum elong	-8190 Jan 18 j 08:43	29°♏54'02	1°21'57
	-8190 Jan 18 j 18:55	0°♐	
max. Earth dist.	-8190 Jan 19 j 22:44	0°♐16'18	6.05960 AU
morning rise	-8190 Feb 01 j 00:11	3°♐05'17	
retrograde	-8190 Jun 11 j 17:13	22°♐57'01	
min. Earth dist.	-8190 Aug 09 j 07:39	17°♐59'52	4.08087 AU
opposition	-8190 Aug 10 j 06:44	17°♐52'00	-2°17'03
direct	-8190 Oct 07 j 13:05	12°♐53'17	
	-8189 Feb 02 j 00:19	0°♑	
evening set	-8189 Feb 10 j 19:53	2°♑00'33	
conjunction	-8189 Feb 24 j 12:32	5°♑09'47	-1°33'21
minimum elong	-8189 Feb 24 j 12:33	5°♑09'48	1°33'53
max. Earth dist.	-8189 Feb 25 j 19:41	5°♑27'45	6.11009 AU
morning rise	-8189 Mar 10 j 06:26	8°♑19'28	
retrograde	-8189 Jul 16 j 04:34	27°♑32'06	
opposition	-8189 Sep 13 j 08:46	22°♑28'56	-2°08'25
min. Earth dist.	-8189 Sep 12 j 17:30	22°♑34'09	4.14915 AU
direct	-8189 Nov 11 j 12:02	17°♑26'58	
	-8188 Feb 18 j 00:56	0°♒	
evening set	-8188 Mar 18 j 05:10	6°♒22'46	
conjunction	-8188 Mar 31 j 22:44	9°♒28'58	-1°12'08
minimum elong	-8188 Mar 31 j 22:49	9°♒29'01	1°12'35
max. Earth dist.	-8188 Apr 01 j 14:29	9°♒37'53	6.19096 AU
morning rise	-8188 Apr 14 j 15:04	12°♒34'27	
	-8188 Apr 25 j 12:22	15°♒	
	-8188 Jul 24 j 06:00	0°♓	
retrograde	-8188 Aug 17 j 05:03	0°♓56'09	
	-8188 Sep 09 j 22:49	30°℞♒	
opposition	-8188 Oct 15 j 07:53	25°♒56'33	-1°16'59
min. Earth dist.	-8188 Oct 15 j 04:35	25°♒57'40	4.23413 AU
direct	-8188 Dec 14 j 15:49	20°♒52'44	
	-8187 Mar 07 j 18:07	0°♓	
evening set	-8187 Apr 22 j 04:48	9°♓29'21	
conjunction	-8187 May 05 j 18:21	12°♓30'36	-0°27'43
minimum elong	-8187 May 05 j 18:24	12°♓30'37	0°27'56
max. Earth dist.	-8187 May 05 j 12:10	12°♓27'09	6.27436 AU
morning rise	-8187 May 19 j 05:17	15°♓30'22	
	-8187 Aug 03 j 20:47	0°♈	
retrograde	-8187 Sep 18 j 01:20	3°♈08'43	
	-8187 Nov 02 j 15:52	30°℞♓	
opposition	-8187 Nov 16 j 12:06	28°♓12'52	-0°03'21
min. Earth dist.	-8187 Nov 16 j 21:47	28°♓09'40	4.30860 AU
asc. node	-8187 Dec 03 j 15:04	26°♓01'47	
direct	-8186 Jan 17 j 00:45	23°♓08'52	
	-8186 Mar 29 j 14:53	0°♈	
evening set	-8186 May 25 j 14:28	11°♈26'59	
conjunction	-8186 Jun 07 j 19:53	14°♈22'24	0°24'12
minimum elong	-8186 Jun 07 j 19:51	14°♈22'22	0°24'16
max. Earth dist.	-8186 Jun 06 j 21:46	14°♈10'08	6.33466 AU
morning rise	-8186 Jun 20 j 21:36	17°♈15'59	
	-8186 Aug 25 j 05:21	0°♉	
retrograde	-8186 Oct 19 j 09:48	4°♉30'37	
	-8186 Dec 15 j 13:16	30°℞♈	
opposition	-8186 Dec 18 j 10:11	29°♈37'43	1°09'24
min. Earth dist.	-8186 Dec 19 j 05:27	29°♈31'29	4.35087 AU
direct	-8185 Feb 18 j 18:03	24°♈35'12	
	-8185 Apr 22 j 23:57	0°♉	
evening set	-8185 Jun 26 j 16:29	12°♉40'57	
	-8185 Jul 07 j 03:32	15°♉	
max. Earth dist.	-8185 Jul 08 j 02:33	15°♉12'48	6.35459 AU
conjunction	-8185 Jul 09 j 11:47	15°♉31'16	1°08'14
minimum elong	-8185 Jul 09 j 11:42	15°♉31'13	1°08'35
morning rise	-8185 Jul 22 j 04:07	18°♉20'05	
	-8185 Sep 18 j 14:54	0°♊	
retrograde	-8185 Nov 20 j 01:38	5°♊35'01	
opposition	-8184 Jan 19 j 16:30	0°♊43'25	2°01'38
min. Earth dist.	-8184 Jan 20 j 17:05	0°♊35'35	4.34837 AU
	-8184 Jan 25 j 09:03	30°℞♉	
direct	-8184 Mar 22 j 06:03	25°♉43'24	
	-8184 May 16 j 17:22	0°♊	
evening set	-8184 Jul 26 j 23:00	13°♊45'15	
max. Earth dist.	-8184 Aug 07 j 02:25	16°♊14'59	6.32849 AU
conjunction	-8184 Aug 08 j 10:55	16°♊33'15	1°32'33
minimum elong	-8184 Aug 08 j 10:53	16°♊33'14	1°33'03
morning rise	-8184 Aug 20 j 20:51	19°♊20'25	
	-8184 Oct 11 j 16:08	0°♋	
retrograde	-8184 Dec 21 j 13:49	6°♋58'03	
opposition	-8183 Feb 20 j 18:15	2°♋05'53	2°19'13
min. Earth dist.	-8183 Feb 21 j 15:36	1°♋59'07	4.30112 AU
	-8183 Mar 09 j 20:47	30°℞♊	
direct	-8183 Apr 23 j 20:09	27°♊08'54	
	-8183 Jun 07 j 03:05	0°♋	
evening set	-8183 Aug 27 j 03:13	15°♋15'17	
conjunction	-8183 Sep 08 j 12:59	18°♋04'54	1°29'59
minimum elong	-8183 Sep 08 j 13:01	18°♋04'55	1°30'31
max. Earth dist.	-8183 Sep 07 j 12:25	17°♋50'52	6.26330 AU
morning rise	-8183 Sep 20 j 22:45	20°♋54'39	
	-8183 Nov 02 j 09:09	0°♌	
retrograde	-8182 Jan 24 j 12:54	9°♌11'59	
opposition	-8182 Mar 26 j 22:31	4°♌17'30	1°55'04

Attention, astronomical year style is used: The year -8182 in astronomical counting style is the year 8183 BCE in historical counting style.

min. Earth dist.	-8182 Mar	27	j 11:20	4°♌13'24	4.22187 AU	direct	-8177 Nov	16	j 07:04	22°♉17'44	
	-8182 May	07	j 03:22	30°℞♋			-8176 Jan	29	j 10:49	0°♒	
direct	-8182 May	27	j 01:18	29°♋23'05		evening set	-8176 Mar	23	j 04:58	11°♒12'05	
	-8182 Jun	15	j 20:12	0°♌							
	-8182 Sep	16	j 04:39	15°♌		conjunction	-8176 Apr	05	j 22:12	14°♒17'48	-1°06'54
evening set	-8182 Sep	27	j 23:23	17°♌41'23		minimum elong	-8176 Apr	05	j 22:17	14°♒17'51	1°07'21
						max. Earth dist.	-8176 Apr	06	j 10:49	14°♒24'55	6.20082 AU
conjunction	-8182 Oct	10	j 13:28	20°♌36'25	0°59'33		-8176 Apr	09	j 00:54	15°♒	
minimum elong	-8182 Oct	10	j 13:33	20°♌36'27	0°59'56	morning rise	-8176 Apr	19	j 14:14	17°♒22'41	
max. Earth dist.	-8182 Oct	10	j 05:21	20°♌31'42	6.17747 AU		-8176 Jun	20	j 23:43	0°♓	
morning rise	-8182 Oct	23	j 05:19	23°♌32'32		retrograde	-8176 Aug	21	j 17:05	5°♓38'08	
	-8182 Nov	21	j 02:33	0°♍		opposition	-8176 Oct	19	j 21:15	0°♓39'00	-1°07'23
retrograde	-8181 Feb	28	j 20:40	12°♍37'11		min. Earth dist.	-8176 Oct	19	j 19:16	0°♓39'40	4.24456 AU
opposition	-8181 May	01	j 04:15	7°♍39'04	0°52'32		-8176 Oct	24	j 17:28	30°℞♒	
min. Earth dist.	-8181 May	01	j 02:16	7°♍39'43	4.13507 AU	direct	-8176 Dec	19	j 09:10	25°♒35'00	
direct	-8181 Jun	29	j 23:17	2°♍46'05			-8175 Feb	12	j 20:57	0°♓	
evening set	-8181 Oct	31	j 05:36	21°♍21'47		evening set	-8175 Apr	26	j 23:39	14°♓09'02	
conjunction	-8181 Nov	13	j 03:56	24°♍23'54	0°08'37	conjunction	-8175 May	10	j 12:22	17°♓09'29	-0°20'28
minimum elong	-8181 Nov	13	j 03:56	24°♍23'54	0°08'43	minimum elong	-8175 May	10	j 12:24	17°♓09'30	0°20'39
behind sun begin	-8181 Nov	12	j 20:54	24°♍19'47		max. Earth dist.	-8175 May	10	j 05:05	17°♓05'26	6.28463 AU
behind sun end	-8181 Nov	13	j 10:58	24°♍28'01		morning rise	-8175 May	23	j 22:03	20°♓08'21	
max. Earth dist.	-8181 Nov	13	j 15:46	24°♍30'51	6.09821 AU		-8175 Jul	10	j 14:53	0°♈	
morning rise	-8181 Nov	26	j 05:24	27°♍27'47		retrograde	-8175 Sep	22	j 11:19	7°♈41'48	
	-8181 Dec	07	j 04:33	0°♎		asc. node	-8175 Oct	13	j 18:53	6°♈57'21	
desc. node	-8180 Jan	13	j 03:28	7°♎56'04		opposition	-8175 Nov	20	j 23:35	2°♈46'26	0°07'26
retrograde	-8180 Apr	05	j 06:54	17°♎13'26		min. Earth dist.	-8175 Nov	21	j 10:34	2°♈42'49	4.31760 AU
min. Earth dist.	-8180 Jun	04	j 10:46	12°♎16'23	4.06997 AU		-8175 Dec	13	j 07:59	30°℞♓	
opposition	-8180 Jun	05	j 01:42	12°♎11'26	-0°30'32	direct	-8174 Jan	21	j 15:42	27°♓42'34	
direct	-8180 Aug	02	j 18:17	7°♎17'57			-8174 Mar	02	j 08:25	0°♈	
evening set	-8180 Dec	04	j 07:26	26°♎12'42		evening set	-8174 May	30	j 04:04	15°♈58'05	
						max. Earth dist.	-8174 Jun	11	j 06:53	18°♈38'44	6.34127 AU
conjunction	-8180 Dec	17	j 14:27	29°♎20'32	-0°46'33						
minimum elong	-8180 Dec	17	j 14:23	29°♎20'30	0°46'45	conjunction	-8174 Jun	12	j 07:59	18°♈52'38	0°31'10
max. Earth dist.	-8180 Dec	18	j 20:32	29°♎38'17	6.05306 AU	minimum elong	-8174 Jun	12	j 07:56	18°♈52'36	0°31'17
	-8180 Dec	20	j 09:21	0°♏		morning rise	-8174 Jun	25	j 08:28	21°♈45'24	
morning rise	-8180 Dec	31	j 00:52	2°♏30'13			-8174 Aug	03	j 18:26	0°♉	
	-8179 Feb	27	j 07:49	15°♏		retrograde	-8174 Oct	23	j 19:13	8°♉58'11	
retrograde	-8179 May	11	j 19:58	22°♏34'10		opposition	-8174 Dec	22	j 21:37	4°♉05'31	1°18'18
opposition	-8179 Jul	10	j 22:16	17°♏29'35	-1°43'59	min. Earth dist.	-8174 Dec	23	j 18:16	3°♉58'51	4.35462 AU
min. Earth dist.	-8179 Jul	09	j 23:16	17°♏37'21	4.05062 AU		-8173 Jan	29	j 04:04	30°℞♈	
	-8179 Jul	30	j 06:58	15°℞♏		direct	-8173 Feb	23	j 07:37	29°♈03'15	
direct	-8179 Sep	07	j 00:24	12°♏33'49			-8173 Mar	20	j 15:23	0°♉	
	-8179 Oct	15	j 14:30	15°♏			-8173 Jun	21	j 08:45	15°♉	
	-8178 Jan	02	j 13:41	0°♐		evening set	-8173 Jul	01	j 01:54	17°♉07'31	
evening set	-8178 Jan	09	j 21:27	1°♐41'46		max. Earth dist.	-8173 Jul	12	j 11:27	19°♉39'09	6.35490 AU
conjunction	-8178 Jan	23	j 10:49	4°♐51'55	-1°25'04	conjunction	-8173 Jul	13	j 20:03	19°♉57'16	1°13'01
minimum elong	-8178 Jan	23	j 10:45	4°♐51'53	1°25'31	minimum elong	-8173 Jul	13	j 19:59	19°♉57'14	1°13'23
max. Earth dist.	-8178 Jan	24	j 23:14	5°♐13'14	6.05982 AU	morning rise	-8173 Jul	26	j 11:03	22°♉45'34	
morning rise	-8178 Feb	06	j 02:57	8°♐03'22			-8173 Aug	29	j 14:18	0°♊	
retrograde	-8178 Jun	16	j 13:33	27°♐52'57		retrograde	-8173 Nov	24	j 11:41	10°♊02'01	
min. Earth dist.	-8178 Aug	14	j 02:46	22°♐55'43	4.08405 AU	opposition	-8172 Jan	24	j 05:27	5°♊10'29	2°06'23
opposition	-8178 Aug	15	j 01:16	22°♐48'01	-2°18'47	min. Earth dist.	-8172 Jan	25	j 05:43	5°♊02'46	4.34528 AU
direct	-8178 Oct	12	j 09:32	17°♐48'49		direct	-8172 Mar	26	j 18:12	0°♊10'56	
	-8177 Jan	15	j 15:01	0°♑		evening set	-8172 Jul	31	j 06:59	18°♊12'42	
evening set	-8177 Feb	15	j 22:17	6°♑56'51		max. Earth dist.	-8172 Aug	11	j 08:44	20°♊41'53	6.32198 AU
conjunction	-8177 Mar	01	j 15:33	10°♑06'04	-1°32'11	conjunction	-8172 Aug	12	j 18:03	21°♊00'38	1°33'53
minimum elong	-8177 Mar	01	j 15:35	10°♑06'05	1°32'44	minimum elong	-8172 Aug	12	j 18:02	21°♊00'38	1°34'25
max. Earth dist.	-8177 Mar	02	j 22:47	10°♑24'03	6.11616 AU	morning rise	-8172 Aug	25	j 03:41	23°♊47'54	
morning rise	-8177 Mar	15	j 09:24	13°♑15'29			-8172 Sep	22	j 18:08	0°♋	
	-8177 Jun	12	j 03:04	0°♒		retrograde	-8172 Dec	26	j 05:34	11°♋30'05	
retrograde	-8177 Jul	20	j 22:43	2°♒22'45		opposition	-8171 Feb	25	j 10:26	6°♋37'43	2°18'24
	-8177 Aug	28	j 09:44	30°℞♑		min. Earth dist.	-8171 Feb	26	j 07:50	6°♋30'56	4.29154 AU
min. Earth dist.	-8177 Sep	17	j 10:53	27°♑24'46	4.15745 AU	direct	-8171 Apr	28	j 10:41	1°♋41'05	
opposition	-8177 Sep	18	j 00:51	27°♑20'00	-2°03'21	evening set	-8171 Aug	31	j 12:05	19°♋48'55	

Attention, astronomical year style is used: The year -8171 in astronomical counting style is the year 8172 BCE in historical counting style.

conjunction	-8171 Sep 12 j 22:15	22°♋39'09	1°27'20
minimum elong	-8171 Sep 12 j 22:18	22°♋39'11	1°27'51
max. Earth dist.	-8171 Sep 11 j 23:49	22°♋26'19	6.25151 AU
morning rise	-8171 Sep 25 j 08:28	25°♋29'37	
	-8171 Oct 15 j 13:01	0°♌	
retrograde	-8170 Jan 29 j 08:08	13°♌53'33	
opposition	-8170 Mar 31 j 18:36	8°♌58'40	1°48'24
min. Earth dist.	-8170 Apr 01 j 05:15	8°♌55'16	4.20863 AU
direct	-8170 May 31 j 16:28	4°♌04'35	
	-8170 Aug 30 j 00:49	15°♌	
evening set	-8170 Oct 02 j 12:21	22°♌25'32	
conjunction	-8170 Oct 15 j 03:22	25°♌21'34	0°53'22
minimum elong	-8170 Oct 15 j 03:26	25°♌21'37	0°53'44
max. Earth dist.	-8170 Oct 14 j 21:20	25°♌18'04	6.16400 AU
morning rise	-8170 Oct 27 j 20:29	28°♌18'50	
	-8170 Nov 04 j 04:25	0°♍	
retrograde	-8169 Mar 05 j 22:55	17°♍30'37	
opposition	-8169 May 06 j 04:00	12°♍31'58	0°41'34
min. Earth dist.	-8169 May 06 j 00:33	12°♍33'06	4.12227 AU
direct	-8169 Jul 04 j 19:10	7°♍39'02	
evening set	-8169 Nov 05 j 00:56	26°♍18'11	
conjunction	-8169 Nov 18 j 00:39	29°♍21'23	0°00'39
minimum elong	-8169 Nov 18 j 00:38	29°♍21'22	0°00'43
behind sun begin	-8169 Nov 17 j 16:30	29°♍16'36	
behind sun end	-8169 Nov 18 j 08:47	29°♍26'08	
max. Earth dist.	-8169 Nov 18 j 15:59	29°♍30'23	6.08752 AU
	-8169 Nov 20 j 18:15	0°♎	
desc. node	-8169 Nov 22 j 10:57	0°♎23'58	
morning rise	-8169 Dec 01 j 03:30	2°♎26'21	
retrograde	-8168 Apr 10 j 10:38	22°♎16'54	
min. Earth dist.	-8168 Jun 09 j 10:16	17°♎20'05	4.06277 AU
opposition	-8168 Jun 10 j 03:01	17°♎14'31	-0°42'11
direct	-8168 Aug 07 j 15:33	12°♎20'56	
	-8168 Dec 03 j 18:49	0°♏	
evening set	-8168 Dec 09 j 09:31	1°♏18'39	
conjunction	-8168 Dec 22 j 17:29	4°♏27'04	-0°53'25
minimum elong	-8168 Dec 22 j 17:24	4°♏27'01	0°53'40
max. Earth dist.	-8168 Dec 24 j 00:36	4°♏45'25	6.05004 AU
morning rise	-8167 Jan 05 j 05:02	7°♏37'19	
	-8167 Feb 06 j 21:15	15°♏	
retrograde	-8167 May 16 j 21:52	27°♏41'27	
opposition	-8167 Jul 15 j 22:30	22°♏36'40	-1°51'42
min. Earth dist.	-8167 Jul 14 j 22:19	22°♏44'52	4.05257 AU
direct	-8167 Sep 12 j 00:42	17°♏40'29	
	-8167 Dec 15 j 20:54	0°♐	
evening set	-8166 Jan 15 j 02:35	6°♐48'59	
conjunction	-8166 Jan 28 j 16:48	9°♐59'08	-1°28'07
minimum elong	-8166 Jan 28 j 16:45	9°♐59'06	1°28'35
max. Earth dist.	-8166 Jan 30 j 07:25	10°♐21'40	6.06679 AU
morning rise	-8166 Feb 11 j 09:12	13°♐10'21	
	-8166 May 09 j 04:57	0°♑	
retrograde	-8166 Jun 21 j 12:19	2°♑54'25	
	-8166 Aug 03 j 11:33	30°℞♐	
opposition	-8166 Aug 19 j 21:41	27°♐49'39	-2°19'32
min. Earth dist.	-8166 Aug 18 j 23:55	27°♐57'06	4.09551 AU
direct	-8166 Oct 17 j 08:40	22°♐50'01	
	-8166 Dec 26 j 09:42	0°♑	
evening set	-8165 Feb 21 j 01:37	11°♑55'20	
conjunction	-8165 Mar 06 j 18:54	15°♑03'56	-1°30'24
minimum elong	-8165 Mar 06 j 18:57	15°♑03'57	1°30'56
max. Earth dist.	-8165 Mar 07 j 23:47	15°♑20'29	6.13101 AU
morning rise	-8165 Mar 20 j 12:48	18°♑12'38	
	-8165 May 15 j 20:06	0°♒	
retrograde	-8165 Jul 25 j 11:44	7°♒10'56	
opposition	-8165 Sep 22 j 15:35	2°♒08'34	-1°57'29
min. Earth dist.	-8165 Sep 22 j 02:24	2°♒13'04	4.17416 AU
	-8165 Oct 08 j 22:30	30°℞♑	
direct	-8165 Nov 21 j 01:51	27°♑05'55	
	-8164 Jan 03 j 15:18	0°♒	
	-8164 Mar 23 j 22:22	15°♒	
evening set	-8164 Mar 28 j 02:13	15°♒55'41	
conjunction	-8164 Apr 10 j 19:04	19°♒00'29	-1°01'24
minimum elong	-8164 Apr 10 j 19:09	19°♒00'32	1°01'48
max. Earth dist.	-8164 Apr 11 j 05:08	19°♒06'09	6.21820 AU
morning rise	-8164 Apr 24 j 10:18	22°♒04'19	
	-8164 May 31 j 11:41	0°♓	
retrograde	-8164 Aug 26 j 02:30	10°♓11'12	
opposition	-8164 Oct 24 j 07:16	5°♓12'35	-0°57'42
min. Earth dist.	-8164 Oct 24 j 07:49	5°♓12'24	4.26074 AU
direct	-8164 Dec 24 j 00:27	0°♓08'28	
evening set	-8163 May 01 j 13:42	18°♓37'56	
conjunction	-8163 May 15 j 01:23	21°♓37'24	-0°13'25
minimum elong	-8163 May 15 j 01:24	21°♓37'25	0°13'33
behind sun begin	-8163 May 14 j 20:59	21°♓34'59	
behind sun end	-8163 May 15 j 05:49	21°♓39'51	
max. Earth dist.	-8163 May 14 j 14:21	21°♓31'17	6.29823 AU
morning rise	-8163 May 28 j 09:57	24°♓35'14	
	-8163 Jun 22 j 13:26	0°♈	
asc. node	-8163 Aug 25 j 13:50	10°♈25'33	
retrograde	-8163 Sep 26 j 15:42	12°♈03'22	
opposition	-8163 Nov 25 j 06:52	7°♈08'23	0°17'42
min. Earth dist.	-8163 Nov 25 j 19:34	7°♈04'13	4.32764 AU
direct	-8162 Jan 26 j 02:15	2°♈04'33	
evening set	-8162 Jun 03 j 12:31	20°♈17'21	
conjunction	-8162 Jun 16 j 15:07	23°♈11'05	0°37'38
minimum elong	-8162 Jun 16 j 15:04	23°♈11'03	0°37'48
max. Earth dist.	-8162 Jun 15 j 12:11	22°♈56'10	6.34689 AU
morning rise	-8162 Jun 29 j 14:09	26°♈03'03	
	-8162 Jul 17 j 19:55	0°♉	
retrograde	-8162 Oct 28 j 00:33	13°♉14'46	
opposition	-8162 Dec 27 j 04:55	8°♉22'25	1°26'25
min. Earth dist.	-8162 Dec 28 j 03:16	8°♉15'13	4.35553 AU
direct	-8161 Feb 27 j 16:37	3°♉20'25	
	-8161 Jun 05 j 06:30	15°♉	
evening set	-8161 Jul 05 j 07:28	21°♉24'19	
max. Earth dist.	-8161 Jul 16 j 12:57	23°♉53'59	6.35069 AU
conjunction	-8161 Jul 18 j 00:24	24°♉13'44	1°17'13
minimum elong	-8161 Jul 18 j 00:20	24°♉13'41	1°17'36
morning rise	-8161 Jul 30 j 14:35	27°♉01'48	
	-8161 Aug 13 j 03:57	0°♊	
retrograde	-8161 Nov 28 j 21:02	14°♊21'32	
opposition	-8160 Jan 28 j 15:48	9°♊29'59	2°10'18
min. Earth dist.	-8160 Jan 29 j 16:48	9°♊22'02	4.33645 AU
direct	-8160 Mar 31 j 03:26	4°♊30'44	
evening set	-8160 Aug 04 j 12:28	22°♊34'29	
conjunction	-8160 Aug 16 j 23:18	25°♊22'45	1°34'38
minimum elong	-8160 Aug 16 j 23:17	25°♊22'45	1°35'10
max. Earth dist.	-8160 Aug 15 j 15:35	25°♊04'50	6.30915 AU
morning rise	-8160 Aug 29 j 08:35	28°♊10'25	
	-8160 Sep 06 j 13:01	0°♋	
retrograde	-8160 Dec 30 j 20:05	15°♋59'24	
opposition	-8159 Mar 02 j 01:57	11°♋06'51	2°16'45
min. Earth dist.	-8159 Mar 02 j 22:20	11°♋00'23	4.27564 AU
direct	-8159 May 02 j 22:18	6°♋10'38	

Attention, astronomical year style is used: The year -8159 in astronomical counting style is the year 8160 BCE in historical counting style.

evening set	-8159 Sep 04 j 21:00	24°♋22'01	
max. Earth dist.	-8159 Sep 16 j 09:57	27°♋00'46	6.23383 AU
conjunction	-8159 Sep 17 j 07:28	27°♋13'09	1°24'07
minimum elong	-8159 Sep 17 j 07:32	27°♋13'11	1°24'36
morning rise	-8159 Sep 29 j 18:33	0°♌04'42	
	-8159 Sep 29 j 10:20	0°♌	
	-8159 Dec 15 j 09:03	15°♌	
retrograde	-8158 Feb 03 j 06:55	18°♌37'23	
	-8158 Mar 26 j 09:14	15°℞♌	
opposition	-8158 Apr 05 j 16:00	13°♌42'02	1°40'57
min. Earth dist.	-8158 Apr 06 j 00:45	13°♌39'14	4.19040 AU
direct	-8158 Jun 05 j 09:04	8°♌48'11	
	-8158 Aug 09 j 19:44	15°♌	
evening set	-8158 Oct 07 j 03:11	27°♌13'28	
conjunction	-8158 Oct 19 j 19:30	0°♍10'47	0°46'43
minimum elong	-8158 Oct 19 j 19:34	0°♍10'49	0°47'02
	-8158 Oct 19 j 01:03	0°♍	
max. Earth dist.	-8158 Oct 19 j 17:53	0°♍09'50	6.14709 AU
morning rise	-8158 Nov 01 j 13:54	3°♍09'23	
retrograde	-8157 Mar 11 j 02:39	22°♍29'06	
opposition	-8157 May 11 j 05:51	17°♍29'56	0°30'02
min. Earth dist.	-8157 May 10 j 23:52	17°♍31'52	4.10821 AU
direct	-8157 Jul 09 j 15:52	12°♍37'05	
desc. node	-8157 Sep 30 j 22:47	22°♍25'38	
	-8157 Nov 04 j 05:56	0°♎	
evening set	-8157 Nov 09 j 23:07	1°♎20'02	
conjunction	-8157 Nov 22 j 23:59	4°♎24'11	-0°07'32
minimum elong	-8157 Nov 22 j 23:58	4°♎24'11	0°07'30
behind sun begin	-8157 Nov 22 j 16:32	4°♎19'49	
behind sun end	-8157 Nov 23 j 07:24	4°♎28'32	
max. Earth dist.	-8157 Nov 23 j 17:49	4°♎34'42	6.07741 AU
morning rise	-8157 Dec 06 j 04:21	7°♎30'15	
retrograde	-8156 Apr 15 j 14:59	27°♎25'03	
min. Earth dist.	-8156 Jun 14 j 10:53	22°♎28'34	4.05761 AU
opposition	-8156 Jun 15 j 06:10	22°♎22'08	-0°53'44
direct	-8156 Aug 12 j 16:16	17°♎28'15	
	-8156 Nov 16 j 03:56	0°♏	
evening set	-8156 Dec 14 j 13:20	6°♏27'57	
conjunction	-8156 Dec 27 j 22:27	9°♏36'49	-0°59'58
minimum elong	-8156 Dec 27 j 22:22	9°♏36'46	1°00'16
max. Earth dist.	-8156 Dec 29 j 09:27	9°♏57'26	6.04996 AU
morning rise	-8155 Jan 10 j 10:43	12°♏47'21	
	-8155 Jan 19 j 23:26	15°♏	
	-8155 Apr 09 j 01:26	0°♐	
retrograde	-8155 May 22 j 01:51	2°♐50'04	
	-8155 Jul 03 j 19:15	30°℞♏	
opposition	-8155 Jul 20 j 23:18	27°♏45'06	-1°58'37
min. Earth dist.	-8155 Jul 19 j 23:14	27°♏53'16	4.05753 AU
direct	-8155 Sep 17 j 02:17	22°♏48'28	
	-8155 Nov 25 j 11:54	0°♐	
evening set	-8154 Jan 20 j 08:31	11°♐56'30	
conjunction	-8154 Feb 02 j 23:08	15°♐06'25	-1°30'32
minimum elong	-8154 Feb 02 j 23:05	15°♐06'24	1°31'03
max. Earth dist.	-8154 Feb 04 j 12:35	15°♐28'13	6.07572 AU
morning rise	-8154 Feb 16 j 16:01	18°♐17'22	
	-8154 Apr 12 j 11:54	0°♑	
retrograde	-8154 Jun 26 j 08:06	7°♑55'09	
opposition	-8154 Aug 24 j 17:31	2°♑50'35	-2°19'19
min. Earth dist.	-8154 Aug 23 j 19:49	2°♑58'01	4.10749 AU
	-8154 Sep 15 j 22:03	30°℞♐	
direct	-8154 Oct 22 j 06:23	27°♐50'29	
	-8154 Nov 27 j 22:54	0°♑	

evening set	-8153 Feb 26 j 04:45	16°♑53'19	
conjunction	-8153 Mar 11 j 22:12	20°♑01'22	-1°28'01
minimum elong	-8153 Mar 11 j 22:16	20°♑01'24	1°28'33
max. Earth dist.	-8153 Mar 13 j 00:47	20°♑16'35	6.14498 AU
morning rise	-8153 Mar 25 j 15:51	23°♑09'22	
	-8153 Apr 25 j 20:08	0°♒	
retrograde	-8153 Jul 30 j 03:51	11°♒59'37	
opposition	-8153 Sep 27 j 06:49	6°♒57'46	-1°50'54
min. Earth dist.	-8153 Sep 26 j 20:18	7°♒01'20	4.18853 AU
direct	-8153 Nov 25 j 22:02	1°♒54'51	
	-8152 Mar 06 j 20:49	15°♒	
evening set	-8152 Apr 01 j 23:51	20°♒41'08	
conjunction	-8152 Apr 15 j 16:17	23°♒45'12	-0°55'29
minimum elong	-8152 Apr 15 j 16:22	23°♒45'15	0°55'50
max. Earth dist.	-8152 Apr 15 j 23:28	23°♒49'14	6.23193 AU
morning rise	-8152 Apr 29 j 06:47	26°♒48'11	
	-8152 May 13 j 19:02	0°♓	
retrograde	-8152 Aug 30 j 11:45	14°♓48'15	
opposition	-8152 Oct 28 j 18:50	9°♓50'11	-0°47'35
min. Earth dist.	-8152 Oct 28 j 20:37	9°♓49'36	4.27275 AU
direct	-8152 Dec 28 j 15:34	4°♓46'03	
evening set	-8151 May 06 j 05:52	23°♓12'38	
conjunction	-8151 May 19 j 16:22	26°♓11'16	-0°06'09
minimum elong	-8151 May 19 j 16:23	26°♓11'16	0°06'16
behind sun begin	-8151 May 19 j 08:38	26°♓07'00	
behind sun end	-8151 May 20 j 00:07	26°♓15'33	
max. Earth dist.	-8151 May 19 j 02:05	26°♓03'21	6.30775 AU
morning rise	-8151 Jun 01 j 23:45	29°♓08'13	
	-8151 Jun 05 j 21:54	0°♈	
asc. node	-8151 Jul 05 j 11:33	6°♈14'31	
retrograde	-8151 Oct 01 j 01:19	16°♈32'38	
opposition	-8151 Nov 29 j 17:14	11°♈38'10	0°28'08
min. Earth dist.	-8151 Nov 30 j 08:28	11°♈33'10	4.33403 AU
direct	-8150 Jan 30 j 16:38	6°♈34'31	
evening set	-8150 Jun 08 j 00:10	24°♈45'45	
max. Earth dist.	-8150 Jun 19 j 20:14	27°♈22'38	6.34950 AU
conjunction	-8150 Jun 21 j 01:26	27°♈38'48	0°44'07
minimum elong	-8150 Jun 21 j 01:23	27°♈38'46	0°44'19
	-8150 Jul 01 j 16:31	0°♉	
morning rise	-8150 Jul 03 j 23:10	0°♉30'08	
	-8150 Sep 20 j 07:41	15°♉	
retrograde	-8150 Nov 01 j 09:40	17°♉41'53	
	-8150 Dec 14 j 03:37	15°℞♉	
opposition	-8150 Dec 31 j 16:31	12°♉49'44	1°34'23
min. Earth dist.	-8149 Jan 01 j 15:20	12°♉42'24	4.35453 AU
direct	-8149 Mar 04 j 04:25	7°♉48'04	
	-8149 May 17 j 04:03	15°♉	
evening set	-8149 Jul 09 j 16:38	25°♉51'57	
max. Earth dist.	-8149 Jul 20 j 21:46	28°♉21'40	6.34611 AU
conjunction	-8149 Jul 22 j 08:29	28°♉41'03	1°21'10
minimum elong	-8149 Jul 22 j 08:25	28°♉41'00	1°21'35
	-8149 Jul 28 j 05:53	0°♊	
morning rise	-8149 Aug 03 j 21:35	1°♊28'52	
retrograde	-8149 Dec 03 j 10:21	18°♊52'02	
opposition	-8148 Feb 02 j 06:39	14°♊00'31	2°13'40
min. Earth dist.	-8148 Feb 03 j 07:50	13°♊52'32	4.32876 AU
direct	-8148 Apr 04 j 17:17	9°♊01'44	
evening set	-8148 Aug 08 j 21:44	27°♊06'39	
max. Earth dist.	-8148 Aug 20 j 00:15	29°♊37'07	6.29894 AU
conjunction	-8148 Aug 21 j 08:03	29°♊55'08	1°34'53
minimum elong	-8148 Aug 21 j 08:03	29°♊55'08	1°35'25

Attention, astronomical year style is used: The year -8148 in astronomical counting style is the year 8149 BCE in historical counting style.

	-8148 Aug 21 j 16:39	0°♋	
morning rise	-8148 Sep 02 j 17:20	2°♋43'10	
retrograde	-8147 Jan 04 j 14:24	20°♋37'59	
opposition	-8147 Mar 06 j 20:58	15°♋45'07	2°14'15
min. Earth dist.	-8147 Mar 07 j 15:39	15°♋39'11	4.26379 AU
direct	-8147 May 07 j 13:29	10°♋49'17	
evening set	-8147 Sep 09 j 08:27	29°♋02'33	
	-8147 Sep 13 j 12:44	0°♌	
conjunction	-8147 Sep 21 j 19:34	1°♌54'25	1°20'20
minimum elong	-8147 Sep 21 j 19:38	1°♌54'27	1°20'50
max. Earth dist.	-8147 Sep 21 j 02:05	1°♌44'20	6.22171 AU
morning rise	-8147 Oct 04 j 07:14	4°♌46'47	
	-8147 Nov 21 j 03:58	15°♌	
retrograde	-8146 Feb 08 j 06:35	23°♌25'58	
opposition	-8146 Apr 10 j 15:00	18°♌30'08	1°32'44
min. Earth dist.	-8146 Apr 10 j 21:50	18°♌27'57	4.17894 AU
	-8146 May 11 j 03:48	15°℞♌	
direct	-8146 Jun 10 j 04:00	13°♌36'35	
	-8146 Jul 09 j 21:40	15°♌	
	-8146 Oct 02 j 20:27	0°♍	
evening set	-8146 Oct 11 j 18:57	2°♍03'39	
conjunction	-8146 Oct 24 j 12:10	5°♍01'49	0°39'47
minimum elong	-8146 Oct 24 j 12:13	5°♍01'51	0°40'03
max. Earth dist.	-8146 Oct 24 j 12:33	5°♍02'03	6.13742 AU
morning rise	-8146 Nov 06 j 08:00	8°♍01'26	
retrograde	-8145 Mar 16 j 03:28	27°♍26'17	
opposition	-8145 May 16 j 06:39	22°♍26'27	0°18'25
min. Earth dist.	-8145 May 15 j 21:47	22°♍29'21	4.10111 AU
direct	-8145 Jul 14 j 12:44	17°♍33'33	
desc. node	-8145 Aug 10 j 22:52	18°♍47'12	
	-8145 Oct 18 j 03:49	0°♎	
evening set	-8145 Nov 14 j 19:54	6°♎17'56	
conjunction	-8145 Nov 27 j 22:04	9°♎22'47	-0°15'24
minimum elong	-8145 Nov 27 j 22:02	9°♎22'46	0°15'25
behind sun begin	-8145 Nov 27 j 19:38	9°♎21'21	
behind sun end	-8145 Nov 28 j 00:26	9°♎24'10	
max. Earth dist.	-8145 Nov 28 j 20:13	9°♎35'50	6.07356 AU
morning rise	-8145 Dec 11 j 03:29	12°♎29'29	
	-8144 Mar 11 j 17:33	0°♏	
retrograde	-8144 Apr 20 j 17:55	2°♏25'54	
	-8144 May 30 j 13:39	30°℞♎	
min. Earth dist.	-8144 Jun 19 j 10:20	27°♎29'08	4.05747 AU
opposition	-8144 Jun 20 j 05:59	27°♎22'33	-1°04'33
direct	-8144 Aug 17 j 15:13	22°♎28'21	
	-8144 Oct 27 j 15:17	0°♏	
evening set	-8144 Dec 19 j 14:20	11°♏28'37	
conjunction	-8143 Jan 02 j 00:09	14°♏37'38	-1°05'52
minimum elong	-8143 Jan 02 j 00:04	14°♏37'35	1°06'11
max. Earth dist.	-8143 Jan 03 j 11:10	14°♏58'13	6.05318 AU
	-8143 Jan 03 j 14:11	15°♏	
morning rise	-8143 Jan 15 j 13:21	17°♏48'20	
	-8143 Mar 13 j 08:53	0°♐	
retrograde	-8143 May 26 j 22:52	7°♐48'19	
opposition	-8143 Jul 25 j 19:37	2°♐43'13	-2°04'22
min. Earth dist.	-8143 Jul 24 j 18:47	2°♐51'40	4.06397 AU
	-8143 Aug 16 j 01:15	30°℞♏	
direct	-8143 Sep 21 j 22:19	27°♏46'05	
	-8143 Oct 28 j 20:59	0°♐	
evening set	-8142 Jan 25 j 10:16	16°♐53'25	
conjunction	-8142 Feb 08 j 01:28	20°♐03'09	-1°32'12
minimum elong	-8142 Feb 08 j 01:26	20°♐03'09	1°32'43
max. Earth dist.	-8142 Feb 09 j 13:50	20°♐24'17	6.08461 AU
morning rise	-8142 Feb 21 j 18:33	23°♐13'45	
	-8142 Mar 24 j 02:22	0°♑	
retrograde	-8142 Jul 01 j 02:04	12°♑45'40	
opposition	-8142 Aug 29 j 09:43	7°♑41'21	-2°18'09
min. Earth dist.	-8142 Aug 28 j 14:22	7°♑47'58	4.11777 AU
direct	-8142 Oct 27 j 02:29	2°♑40'46	
evening set	-8141 Mar 03 j 04:09	21°♑41'47	
conjunction	-8141 Mar 16 j 21:48	24°♑49'28	-1°25'06
minimum elong	-8141 Mar 16 j 21:52	24°♑49'30	1°25'37
max. Earth dist.	-8141 Mar 17 j 22:08	25°♑03'21	6.15585 AU
morning rise	-8141 Mar 30 j 15:15	27°♑56'54	
	-8141 Apr 08 j 18:17	0°♒	
	-8141 Jul 02 j 09:17	15°♒	
retrograde	-8141 Aug 03 j 15:31	16°♒40'25	
	-8141 Sep 04 j 16:21	15°℞♒	
opposition	-8141 Oct 01 j 19:05	11°♒39'05	-1°43'49
min. Earth dist.	-8141 Oct 01 j 09:38	11°♒42'17	4.19898 AU
direct	-8141 Nov 30 j 13:09	6°♒35'55	
	-8140 Feb 17 j 04:43	15°♒	
evening set	-8140 Apr 06 j 19:17	25°♒20'16	
conjunction	-8140 Apr 20 j 11:07	28°♒23'45	-0°49'20
minimum elong	-8140 Apr 20 j 11:12	28°♒23'48	0°49'40
max. Earth dist.	-8140 Apr 20 j 13:51	28°♒25'17	6.24133 AU
	-8140 Apr 27 j 14:49	0°♓	
morning rise	-8140 May 04 j 01:03	1°♓26'05	
retrograde	-8140 Sep 03 j 22:53	19°♓21'07	
opposition	-8140 Nov 02 j 05:25	14°♓23'37	-0°37'21
min. Earth dist.	-8140 Nov 02 j 10:06	14°♓22'03	4.28026 AU
direct	-8139 Jan 02 j 06:54	9°♓19'27	
evening set	-8139 May 10 j 20:48	27°♓44'38	
asc. node	-8139 May 15 j 10:37	28°♓45'15	
	-8139 May 21 j 01:33	0°♈	
conjunction	-8139 May 24 j 06:25	0°♈42'40	0°01'11
minimum elong	-8139 May 24 j 06:24	0°♈42'39	0°01'08
behind sun begin	-8139 May 23 j 22:12	0°♈38'08	
behind sun end	-8139 May 24 j 14:36	0°♈47'11	
max. Earth dist.	-8139 May 23 j 14:27	0°♈33'48	6.31291 AU
morning rise	-8139 Jun 06 j 12:31	3°♈38'56	
retrograde	-8139 Oct 05 j 09:34	21°♈01'14	
opposition	-8139 Dec 04 j 03:57	16°♈07'10	0°38'21
min. Earth dist.	-8139 Dec 04 j 19:34	16°♈02'04	4.33673 AU
direct	-8138 Feb 04 j 04:28	11°♈03'46	
evening set	-8138 Jun 12 j 11:58	29°♈14'28	
	-8138 Jun 15 j 22:37	0°♉	
max. Earth dist.	-8138 Jun 24 j 05:16	1°♉50'00	6.34956 AU
conjunction	-8138 Jun 25 j 11:47	2°♉06'56	0°50'21
minimum elong	-8138 Jun 25 j 11:43	2°♉06'54	0°50'34
morning rise	-8138 Jul 08 j 08:16	4°♉57'44	
	-8138 Aug 26 j 09:15	15°♉	
retrograde	-8138 Nov 05 j 21:40	22°♉10'23	
opposition	-8137 Jan 05 j 05:19	17°♉18'30	1°41'49
min. Earth dist.	-8137 Jan 06 j 05:22	17°♉10'47	4.35215 AU
	-8137 Jan 23 j 22:24	15°℞♉	
direct	-8137 Mar 08 j 18:37	12°♉17'14	
	-8137 Apr 21 j 09:45	15°♉	
	-8137 Jul 12 j 12:09	0°♊	
evening set	-8137 Jul 14 j 02:28	0°♊21'13	
max. Earth dist.	-8137 Jul 25 j 06:33	2°♊50'37	6.34129 AU
conjunction	-8137 Jul 26 j 17:18	3°♊10'03	1°24'38
minimum elong	-8137 Jul 26 j 17:14	3°♊10'01	1°25'06
morning rise	-8137 Aug 08 j 05:35	5°♊57'42	
retrograde	-8137 Dec 07 j 23:58	23°♊24'17	

Attention, astronomical year style is used: The year -8136 in astronomical counting style is the year 8137 BCE in historical counting style.

opposition	-8136 Feb 06 j 22:27	18°♊32'40	2°16'13
min. Earth dist.	-8136 Feb 07 j 22:08	18°♊25'08	4.32205 AU
direct	-8136 Apr 09 j 06:27	13°♊34'18	
	-8136 Aug 05 j 20:43	0°♋	
evening set	-8136 Aug 13 j 07:08	1°♋39'46	
conjunction	-8136 Aug 25 j 17:13	4°♋28'26	1°34'33
minimum elong	-8136 Aug 25 j 17:13	4°♋28'26	1°35'05
max. Earth dist.	-8136 Aug 24 j 12:15	4°♋11'59	6.29081 AU
morning rise	-8136 Sep 07 j 02:19	7°♋16'46	
retrograde	-8135 Jan 09 j 09:32	25°♋16'40	
opposition	-8135 Mar 11 j 16:23	20°♋23'30	2°10'51
min. Earth dist.	-8135 Mar 12 j 10:11	20°♋17'51	4.25453 AU
direct	-8135 May 12 j 06:17	15°♋28'04	
	-8135 Aug 28 j 09:28	0°♌	
evening set	-8135 Sep 13 j 19:32	3°♌42'11	
conjunction	-8135 Sep 26 j 07:04	6°♌34'41	1°16'03
minimum elong	-8135 Sep 26 j 07:09	6°♌34'43	1°16'32
max. Earth dist.	-8135 Sep 25 j 14:44	6°♌25'15	6.21199 AU
morning rise	-8135 Oct 08 j 19:42	9°♌27'51	
	-8135 Nov 02 j 13:54	15°♌	
retrograde	-8134 Feb 13 j 03:30	28°♌12'47	
opposition	-8134 Apr 15 j 13:00	23°♌16'24	1°23'55
min. Earth dist.	-8134 Apr 15 j 17:00	23°♌15'07	4.16928 AU
direct	-8134 Jun 14 j 21:14	18°♌23'02	
	-8134 Sep 15 j 20:29	0°♍	
evening set	-8134 Oct 16 j 09:52	6°♍51'38	
conjunction	-8134 Oct 29 j 04:21	9°♍50'42	0°32'37
minimum elong	-8134 Oct 29 j 04:24	9°♍50'43	0°32'51
max. Earth dist.	-8134 Oct 29 j 08:44	9°♍53'16	6.12878 AU
morning rise	-8134 Nov 11 j 01:18	12°♍51'15	
	-8133 Feb 09 j 15:15	0°♎	
retrograde	-8133 Mar 21 j 05:14	2°♎20'55	
	-8133 Apr 29 j 20:04	30°℞♍	
opposition	-8133 May 21 j 06:05	27°♍20'36	0°06'44
min. Earth dist.	-8133 May 20 j 20:27	27°♍23'45	4.09414 AU
desc. node	-8133 Jun 21 j 19:46	23°♍41'34	
direct	-8133 Jul 19 j 09:52	22°♍27'38	
	-8133 Sep 28 j 21:18	0°♎	
evening set	-8133 Nov 19 j 16:12	11°♎13'56	
conjunction	-8133 Dec 02 j 19:24	14°♎19'29	-0°23'08
minimum elong	-8133 Dec 02 j 19:21	14°♎19'27	0°23'12
max. Earth dist.	-8133 Dec 03 j 18:28	14°♎33'05	6.06878 AU
morning rise	-8133 Dec 16 j 02:12	17°♎26'56	
	-8132 Feb 12 j 19:03	0°♏	
retrograde	-8132 Apr 25 j 17:55	7°♏25'28	
min. Earth dist.	-8132 Jun 24 j 07:15	2°♏28'57	4.05559 AU
opposition	-8132 Jun 25 j 04:42	2°♏21'45	-1°14'51
	-8132 Jul 13 j 14:43	30°℞♎	
direct	-8132 Aug 22 j 11:08	27°♎27'13	
	-8132 Sep 30 j 23:29	0°♏	
	-8132 Dec 18 j 05:55	15°♏	
evening set	-8132 Dec 24 j 15:08	16°♏29'06	
conjunction	-8131 Jan 07 j 01:54	19°♏38'26	-1°11'16
minimum elong	-8131 Jan 07 j 01:49	19°♏38'22	1°11'38
max. Earth dist.	-8131 Jan 08 j 13:56	19°♏59'36	6.05416 AU
morning rise	-8131 Jan 20 j 15:44	22°♏49'20	
	-8131 Feb 21 j 12:28	0°♐	
retrograde	-8131 May 31 j 21:58	12°♐47'37	
opposition	-8131 Jul 30 j 16:00	7°♐42'27	-2°09'17
min. Earth dist.	-8131 Jul 29 j 16:29	7°♐50'29	4.06775 AU
direct	-8131 Sep 26 j 20:16	2°♐44'49	
evening set	-8130 Jan 30 j 12:57	21°♐52'34	

conjunction	-8130 Feb 13 j 04:44	25°♐02'15	-1°33'14
minimum elong	-8130 Feb 13 j 04:43	25°♐02'15	1°33'45
max. Earth dist.	-8130 Feb 14 j 16:34	25°♐23'02	6.09075 AU
morning rise	-8130 Feb 26 j 22:06	28°♐12'40	
	-8130 Mar 06 j 17:51	0°♑	
retrograde	-8130 Jul 05 j 20:01	17°♑39'24	
min. Earth dist.	-8130 Sep 02 j 07:49	12°♑41'49	4.12570 AU
opposition	-8130 Sep 03 j 02:34	12°♑35'24	-2°16'01
direct	-8130 Oct 31 j 21:07	7°♑34'23	
evening set	-8129 Mar 08 j 05:10	26°♑34'27	
conjunction	-8129 Mar 21 j 22:47	29°♑41'46	-1°21'33
minimum elong	-8129 Mar 21 j 22:51	29°♑41'49	1°22'03
max. Earth dist.	-8129 Mar 22 j 19:09	29°♑53'22	6.16486 AU
	-8129 Mar 23 j 06:48	0°♒	
morning rise	-8129 Apr 04 j 16:11	2°♒48'46	
	-8129 Jun 02 j 19:55	15°♒	
retrograde	-8129 Aug 08 j 06:43	21°♒26'11	
opposition	-8129 Oct 06 j 09:19	16°♒25'19	-1°35'57
min. Earth dist.	-8129 Oct 06 j 02:28	16°♒27'38	4.20801 AU
	-8129 Oct 17 j 00:40	15°℞♒	
direct	-8129 Dec 05 j 08:30	11°♒21'51	
	-8128 Jan 23 j 20:13	15°♒	
evening set	-8128 Apr 11 j 16:08	0°♓04'29	
	-8128 Apr 11 j 08:05	0°♓	
conjunction	-8128 Apr 25 j 07:37	3°♓07'27	-0°42'44
minimum elong	-8128 Apr 25 j 07:41	3°♓07'29	0°43'03
max. Earth dist.	-8128 Apr 25 j 09:05	3°♓08'16	6.24994 AU
morning rise	-8128 May 08 j 20:36	6°♓09'05	
retrograde	-8128 Sep 08 j 09:58	23°♓59'15	
opposition	-8128 Nov 06 j 17:58	19°♓02'17	-0°26'42
min. Earth dist.	-8128 Nov 06 j 23:23	19°♓00'29	4.28780 AU
direct	-8127 Jan 06 j 21:55	13°♓58'10	
asc. node	-8127 Mar 24 j 10:22	21°♓43'38	
	-8127 May 04 j 17:57	0°♈	
evening set	-8127 May 15 j 13:37	2°♈21'39	
conjunction	-8127 May 28 j 21:51	5°♈18'54	0°08'34
minimum elong	-8127 May 28 j 21:50	5°♈18'54	0°08'34
behind sun begin	-8127 May 28 j 14:44	5°♈14'58	
behind sun end	-8127 May 29 j 04:56	5°♈22'49	
max. Earth dist.	-8127 May 28 j 02:50	5°♈08'21	6.31898 AU
morning rise	-8127 Jun 11 j 02:51	8°♈14'26	
retrograde	-8127 Oct 09 j 21:34	25°♈34'15	
opposition	-8127 Dec 08 j 16:36	20°♈40'35	0°48'31
min. Earth dist.	-8127 Dec 09 j 10:06	20°♈34'53	4.34115 AU
direct	-8126 Feb 08 j 20:27	15°♈37'24	
	-8126 May 30 j 13:58	0°♉	
evening set	-8126 Jun 17 j 00:42	3°♉46'35	
conjunction	-8126 Jun 29 j 23:17	6°♉38'23	0°56'21
minimum elong	-8126 Jun 29 j 23:13	6°♉38'21	0°56'37
max. Earth dist.	-8126 Jun 28 j 17:15	6°♉21'43	6.35203 AU
morning rise	-8126 Jul 12 j 18:20	9°♉28'30	
	-8126 Aug 07 j 12:00	15°♉	
retrograde	-8126 Nov 10 j 08:11	26°♉41'11	
opposition	-8125 Jan 09 j 19:07	21°♉49'23	1°48'41
min. Earth dist.	-8125 Jan 10 j 18:11	21°♉42'00	4.35281 AU
direct	-8125 Mar 13 j 07:47	16°♉48'31	
	-8125 Jun 26 j 02:53	0°♊	
evening set	-8125 Jul 18 j 12:20	4°♊51'14	
max. Earth dist.	-8125 Jul 29 j 15:55	7°♊20'32	6.33998 AU
conjunction	-8125 Jul 31 j 02:00	7°♊39'37	1°27'37
minimum elong	-8125 Jul 31 j 01:57	7°♊39'36	1°28'06
morning rise	-8125 Aug 12 j 13:28	10°♊26'57	

Attention, astronomical year style is used: The year -8125 in astronomical counting style is the year 8126 BCE in historical counting style.

retrograde	-8125 Dec 12 j 14:43	27°♊55'48	
opposition	-8124 Feb 11 j 14:24	23°♊04'04	2°17'54
min. Earth dist.	-8124 Feb 12 j 14:17	22°♊56'29	4.31875 AU
direct	-8124 Apr 13 j 22:06	18°♊06'07	
	-8124 Jul 20 j 07:26	0°♋	
evening set	-8124 Aug 17 j 15:43	6°♋10'45	
max. Earth dist.	-8124 Aug 28 j 21:27	8°♋43'32	6.28569 AU
conjunction	-8124 Aug 30 j 01:33	8°♋59'31	1°33'38
minimum elong	-8124 Aug 30 j 01:34	8°♋59'31	1°34'10
morning rise	-8124 Sep 11 j 10:44	11°♋48'04	
retrograde	-8123 Jan 14 j 01:05	29°♋51'57	
opposition	-8123 Mar 16 j 10:13	24°♋58'22	2°06'37
min. Earth dist.	-8123 Mar 17 j 01:39	24°♋53'28	4.24783 AU
direct	-8123 May 16 j 20:17	20°♋03'16	
	-8123 Aug 11 j 04:19	0°♌	
evening set	-8123 Sep 18 j 05:14	8°♌17'32	
conjunction	-8123 Sep 30 j 17:26	11°♌10'36	1°11'20
minimum elong	-8123 Sep 30 j 17:31	11°♌10'39	1°11'47
max. Earth dist.	-8123 Sep 30 j 04:03	11°♌02'52	6.20439 AU
morning rise	-8123 Oct 13 j 06:48	14°♌04'28	
	-8123 Oct 17 j 07:50	15°♌	
	-8122 Jan 04 j 13:44	0°♍	
retrograde	-8122 Feb 18 j 00:38	2°♍54'22	
	-8122 Apr 03 j 23:56	30°℞♌	
opposition	-8122 Apr 20 j 09:01	27°♌57'30	1°14'39
min. Earth dist.	-8122 Apr 20 j 12:27	27°♌56'24	4.16097 AU
direct	-8122 Jun 19 j 14:42	23°♌04'16	
	-8122 Aug 27 j 16:58	0°♍	
evening set	-8122 Oct 20 j 23:12	11°♍34'11	
conjunction	-8122 Nov 02 j 18:42	14°♍34'05	0°25'21
minimum elong	-8122 Nov 02 j 18:44	14°♍34'06	0°25'34
max. Earth dist.	-8122 Nov 03 j 00:07	14°♍37'15	6.12062 AU
morning rise	-8122 Nov 15 j 17:06	17°♍35'36	
	-8121 Jan 13 j 04:42	0°♎	
retrograde	-8121 Mar 26 j 02:54	7°♎09'56	
desc. node	-8121 May 03 j 19:02	4°♎55'03	
opposition	-8121 May 26 j 03:03	2°♎09'08	-0°04'46
min. Earth dist.	-8121 May 25 j 15:11	2°♎13'02	4.08684 AU
	-8121 Jun 12 j 02:18	30°℞♍	
direct	-8121 Jul 24 j 02:23	27°♍16'04	
	-8121 Sep 03 j 09:29	0°♎	
evening set	-8121 Nov 24 j 11:09	16°♎04'52	
conjunction	-8121 Dec 07 j 15:33	19°♎11'10	-0°30'33
minimum elong	-8121 Dec 07 j 15:30	19°♎11'08	0°30'41
max. Earth dist.	-8121 Dec 08 j 16:32	19°♎25'54	6.06300 AU
morning rise	-8121 Dec 20 j 23:23	22°♎19'21	
	-8120 Jan 24 j 01:17	0°♏	
retrograde	-8120 Apr 30 j 18:02	12°♏20'28	
min. Earth dist.	-8120 Jun 29 j 04:29	7°♏23'34	4.05197 AU
opposition	-8120 Jun 30 j 01:32	7°♏16'28	-1°24'27
direct	-8120 Aug 27 j 07:06	2°♏21'35	
	-8120 Dec 01 j 07:28	15°♏	
evening set	-8120 Dec 29 j 15:24	21°♏26'09	
conjunction	-8119 Jan 12 j 03:06	24°♏35'55	-1°16'04
minimum elong	-8119 Jan 12 j 03:01	24°♏35'52	1°16'29
max. Earth dist.	-8119 Jan 13 j 15:54	24°♏57'31	6.05303 AU
morning rise	-8119 Jan 25 j 17:43	27°♏47'10	
	-8119 Feb 04 j 07:28	0°♐	
retrograde	-8119 Jun 05 j 19:30	17°♐44'18	
min. Earth dist.	-8119 Aug 03 j 11:33	12°♐47'19	4.06958 AU
opposition	-8119 Aug 04 j 11:14	12°♐39'15	-2°13'11
direct	-8119 Oct 01 j 15:06	7°♐41'12	
evening set	-8118 Feb 04 j 15:35	26°♐50'19	
conjunction	-8118 Feb 18 j 07:48	0°♑00'02	-1°33'32
minimum elong	-8118 Feb 18 j 07:48	0°♑00'02	1°34'03
	-8118 Feb 18 j 07:45	0°♑	
max. Earth dist.	-8118 Feb 19 j 17:08	0°♑19'19	6.09529 AU
morning rise	-8118 Mar 04 j 01:36	3°♑10'23	
retrograde	-8118 Jul 10 j 14:28	22°♑32'37	
opposition	-8118 Sep 07 j 19:31	17°♑28'57	-2°12'54
min. Earth dist.	-8118 Sep 07 j 02:17	17°♑34'50	4.13245 AU
direct	-8118 Nov 05 j 17:54	12°♑27'31	
	-8117 Mar 06 j 19:31	0°♒	
evening set	-8117 Mar 13 j 06:10	1°♒26'57	
conjunction	-8117 Mar 27 j 00:00	4°♒33'59	-1°17'25
minimum elong	-8117 Mar 27 j 00:05	4°♒34'02	1°17'52
max. Earth dist.	-8117 Mar 27 j 19:48	4°♒45'14	6.17361 AU
morning rise	-8117 Apr 09 j 16:59	7°♒40'28	
	-8117 May 13 j 10:18	15°♒	
retrograde	-8117 Aug 12 j 21:21	26°♒11'45	
opposition	-8117 Oct 10 j 23:31	21°♒11'26	-1°27'24
min. Earth dist.	-8117 Oct 10 j 17:38	21°♒13'25	4.21780 AU
direct	-8117 Dec 10 j 01:56	16°♒07'49	
	-8116 Mar 25 j 11:05	0°♓	
evening set	-8116 Apr 16 j 13:06	4°♓48'18	
conjunction	-8116 Apr 30 j 03:44	7°♓50'33	-0°35'52
minimum elong	-8116 Apr 30 j 03:47	7°♓50'35	0°36'08
max. Earth dist.	-8116 Apr 30 j 01:28	7°♓49'17	6.26003 AU
morning rise	-8116 May 13 j 15:59	10°♓51'26	
retrograde	-8116 Sep 12 j 21:23	28°♓36'17	
opposition	-8116 Nov 11 j 06:18	23°♓39'45	-0°15'54
min. Earth dist.	-8116 Nov 11 j 13:42	23°♓37'18	4.29719 AU
direct	-8115 Jan 11 j 14:27	18°♓35'36	
asc. node	-8115 Jan 31 j 21:07	19°♓13'21	
	-8115 Apr 17 j 10:38	0°♈	
evening set	-8115 May 20 j 05:04	6°♈56'32	
conjunction	-8115 Jun 02 j 12:12	9°♈52'58	0°15'51
minimum elong	-8115 Jun 02 j 12:10	9°♈52'58	0°15'53
behind sun begin	-8115 Jun 02 j 11:25	9°♈52'33	
behind sun end	-8115 Jun 02 j 12:55	9°♈53'22	
max. Earth dist.	-8115 Jun 01 j 16:48	9°♈42'13	6.32681 AU
morning rise	-8115 Jun 15 j 15:40	12°♈47'36	
	-8115 Oct 07 j 09:35	0°♉	
retrograde	-8115 Oct 14 j 06:30	0°♉04'35	
	-8115 Oct 21 j 03:02	30°℞♈	
opposition	-8115 Dec 13 j 04:14	25°♈11'14	0°58'18
min. Earth dist.	-8115 Dec 13 j 22:04	25°♈05'26	4.34671 AU
direct	-8114 Feb 13 j 09:31	20°♈08'19	
	-8114 May 12 j 22:48	0°♉	
evening set	-8114 Jun 21 j 11:48	8°♉15'35	
max. Earth dist.	-8114 Jul 03 j 00:26	10°♉48'41	6.35444 AU
conjunction	-8114 Jul 04 j 08:48	11°♉06'39	1°01'59
minimum elong	-8114 Jul 04 j 08:44	11°♉06'36	1°02'17
morning rise	-8114 Jul 17 j 02:42	13°♉56'08	
	-8114 Jul 21 j 22:52	15°♉	
	-8114 Oct 18 j 13:21	0°♊	
retrograde	-8114 Nov 14 j 19:52	1°♊09'17	
	-8114 Dec 12 j 03:46	30°℞♉	
opposition	-8113 Jan 14 j 07:58	26°♉17'35	1°54'55
min. Earth dist.	-8113 Jan 15 j 08:25	26°♉09'45	4.35193 AU
direct	-8113 Mar 17 j 21:48	21°♉17'02	
	-8113 Jun 08 j 02:35	0°♊	
evening set	-8113 Jul 22 j 20:48	9°♊19'09	
max. Earth dist.	-8113 Aug 03 j 00:18	11°♊48'36	6.33560 AU

Attention, astronomical year style is used: The year -8113 in astronomical counting style is the year 8114 BCE in historical counting style.

conjunction	-8113 Aug 04 j 09:43	12°♊07'20	1°30'06
minimum elong	-8113 Aug 04 j 09:41	12°♊07'19	1°30'35
morning rise	-8113 Aug 16 j 20:23	14°♊54'32	
	-8113 Nov 06 j 16:44	0°♋	
retrograde	-8113 Dec 17 j 03:22	2°♋26'56	
	-8112 Jan 27 j 06:01	30°℞♊	
opposition	-8112 Feb 16 j 05:43	27°♊35'01	2°18'51
min. Earth dist.	-8112 Feb 17 j 04:12	27°♊27'53	4.31127 AU
direct	-8112 Apr 18 j 10:29	22°♊37'28	
	-8112 Jul 01 j 10:43	0°♋	
evening set	-8112 Aug 22 j 00:19	10°♋42'56	
max. Earth dist.	-8112 Sep 02 j 07:08	13°♋16'43	6.27560 AU
conjunction	-8112 Sep 03 j 10:03	13°♋32'03	1°32'12
minimum elong	-8112 Sep 03 j 10:05	13°♋32'04	1°32'45
morning rise	-8112 Sep 15 j 19:27	16°♋21'07	
	-8112 Nov 23 j 16:52	0°♌	
retrograde	-8111 Jan 18 j 20:48	4°♌31'02	
	-8111 Mar 18 j 05:28	30°℞♋	
opposition	-8111 Mar 21 j 05:37	29°♋37'04	2°01'40
min. Earth dist.	-8111 Mar 21 j 20:42	29°♋32'16	4.23557 AU
direct	-8111 May 21 j 13:14	24°♋42'14	
	-8111 Jul 21 j 03:56	0°♌	
evening set	-8111 Sep 22 j 16:44	12°♌58'36	
	-8111 Oct 01 j 10:59	15°♌	
conjunction	-8111 Oct 05 j 05:46	15°♌52'36	1°06'07
minimum elong	-8111 Oct 05 j 05:50	15°♌52'38	1°06'31
max. Earth dist.	-8111 Oct 04 j 18:11	15°♌45'53	6.19113 AU
morning rise	-8111 Oct 17 j 20:14	18°♌47'30	
	-8111 Dec 09 j 15:18	0°♍	
retrograde	-8110 Feb 22 j 23:16	7°♍44'26	
opposition	-8110 Apr 25 j 07:53	2°♍47'01	1°04'42
min. Earth dist.	-8110 Apr 25 j 08:29	2°♍46'50	4.14774 AU
	-8110 May 18 j 07:20	30°℞♌	
direct	-8110 Jun 24 j 08:11	27°♌53'55	
	-8110 Jul 30 j 20:50	0°♍	
evening set	-8110 Oct 25 j 16:35	16°♍27'00	
conjunction	-8110 Nov 07 j 13:21	19°♍27'58	0°17'42
minimum elong	-8110 Nov 07 j 13:23	19°♍27'59	0°17'52
max. Earth dist.	-8110 Nov 07 j 21:50	19°♍32'57	6.10868 AU
morning rise	-8110 Nov 20 j 13:04	22°♍30'37	
	-8110 Dec 23 j 21:55	0°♎	
desc. node	-8109 Mar 13 j 20:38	11°♎42'15	
retrograde	-8109 Mar 31 j 07:15	12°♎10'52	
opposition	-8109 May 31 j 04:20	7°♎09'31	-0°16'43
min. Earth dist.	-8109 May 30 j 15:23	7°♎13'48	4.07726 AU
direct	-8109 Jul 29 j 00:52	2°♎16'18	
evening set	-8109 Nov 29 j 11:17	21°♎08'25	
conjunction	-8109 Dec 12 j 16:54	24°♎15'30	-0°38'05
minimum elong	-8109 Dec 12 j 16:50	24°♎15'28	0°38'14
max. Earth dist.	-8109 Dec 13 j 20:44	24°♎31'56	6.05681 AU
morning rise	-8109 Dec 26 j 01:58	27°♎24'29	
	-8108 Jan 06 j 05:59	0°♏	
	-8108 Mar 26 j 19:42	15°♏	
retrograde	-8108 May 05 j 21:31	17°♏27'38	
	-8108 Jun 14 j 17:53	15°℞♏	
min. Earth dist.	-8108 Jul 04 j 04:07	12°♏31'01	4.05039 AU
opposition	-8108 Jul 05 j 02:48	12°♏23'23	-1°33'50
direct	-8108 Sep 01 j 05:50	7°♏28'12	
	-8108 Nov 11 j 07:18	15°♏	
evening set	-8107 Jan 03 j 20:26	26°♏34'25	
conjunction	-8107 Jan 17 j 08:48	29°♏44'21	-1°20'31
minimum elong	-8107 Jan 17 j 08:44	29°♏44'18	1°20'57
	-8107 Jan 18 j 11:30	0°♐	
max. Earth dist.	-8107 Jan 18 j 21:41	0°♐05'58	6.05617 AU
morning rise	-8107 Jan 31 j 00:09	2°♐55'41	
retrograde	-8107 Jun 10 j 19:06	22°♐49'22	
min. Earth dist.	-8107 Aug 08 j 09:50	17°♐52'25	4.07753 AU
opposition	-8107 Aug 09 j 09:34	17°♐44'18	-2°16'13
direct	-8107 Oct 06 j 15:48	12°♐45'47	
	-8106 Feb 01 j 13:44	0°♑	
evening set	-8106 Feb 09 j 20:33	1°♑53'27	
conjunction	-8106 Feb 23 j 13:17	5°♑02'49	-1°33'12
minimum elong	-8106 Feb 23 j 13:18	5°♑02'49	1°33'44
max. Earth dist.	-8106 Feb 24 j 23:31	5°♑22'34	6.10758 AU
morning rise	-8106 Mar 09 j 06:58	8°♑12'33	
retrograde	-8106 Jul 15 j 08:56	27°♑26'43	
opposition	-8106 Sep 12 j 12:46	22°♑23'25	-2°08'50
min. Earth dist.	-8106 Sep 11 j 20:35	22°♑28'57	4.14785 AU
direct	-8106 Nov 10 j 14:54	17°♑21'37	
	-8105 Feb 17 j 13:21	0°♒	
evening set	-8105 Mar 18 j 06:22	6°♒16'54	
conjunction	-8105 Mar 31 j 23:48	9°♒23'05	-1°12'49
minimum elong	-8105 Mar 31 j 23:53	9°♒23'08	1°13'16
max. Earth dist.	-8105 Apr 01 j 16:03	9°♒32'17	6.19077 AU
morning rise	-8105 Apr 14 j 16:26	12°♒28'38	
	-8105 Apr 26 j 00:12	15°♒	
	-8105 Jul 25 j 13:35	0°♓	
retrograde	-8105 Aug 17 j 07:33	0°♓50'52	
	-8105 Sep 08 j 22:08	30°℞♒	
opposition	-8105 Oct 15 j 11:37	25°♒51'00	-1°18'28
min. Earth dist.	-8105 Oct 15 j 07:28	25°♒52'25	4.23499 AU
direct	-8105 Dec 14 j 18:58	20°♒47'09	
	-8104 Mar 07 j 08:37	0°♓	
evening set	-8104 Apr 21 j 05:54	9°♓22'46	
conjunction	-8104 May 04 j 19:44	12°♓24'00	-0°29'00
minimum elong	-8104 May 04 j 19:47	12°♓24'01	0°29'13
max. Earth dist.	-8104 May 04 j 15:36	12°♓21'41	6.27602 AU
morning rise	-8104 May 18 j 06:45	15°♓23'44	
	-8104 Aug 03 j 19:58	0°♈	
retrograde	-8104 Sep 17 j 03:58	3°♈01'49	
	-8104 Oct 31 j 19:43	30°℞♓	
opposition	-8104 Nov 15 j 14:42	28°♓05'49	-0°05'27
min. Earth dist.	-8104 Nov 15 j 23:58	28°♓02'45	4.31051 AU
asc. node	-8104 Dec 13 j 15:08	24°♓43'42	
direct	-8103 Jan 16 j 02:43	23°♓01'46	
	-8103 Mar 29 j 09:44	0°♈	
evening set	-8103 May 24 j 15:33	11°♈18'56	
conjunction	-8103 Jun 06 j 21:12	14°♈14'24	0°22'43
minimum elong	-8103 Jun 06 j 21:10	14°♈14'23	0°22'46
max. Earth dist.	-8103 Jun 05 j 21:38	14°♈01'21	6.33621 AU
morning rise	-8103 Jun 19 j 23:27	17°♈08'06	
	-8103 Aug 25 j 05:11	0°♉	
retrograde	-8103 Oct 18 j 11:54	4°♉22'21	
	-8103 Dec 13 j 12:37	30°℞♈	
opposition	-8103 Dec 17 j 11:28	29°♈29'19	1°07'19
min. Earth dist.	-8103 Dec 18 j 07:32	29°♈22'48	4.35167 AU
direct	-8102 Feb 17 j 19:23	24°♈26'35	
	-8102 Apr 22 j 22:42	0°♉	
evening set	-8102 Jun 25 j 17:57	12°♉32'26	
	-8102 Jul 06 j 20:31	15°♉	
max. Earth dist.	-8102 Jul 07 j 04:57	15°♉04'41	6.35440 AU
conjunction	-8102 Jul 08 j 13:50	15°♉22'58	1°07'01
minimum elong	-8102 Jul 08 j 13:46	15°♉22'55	1°07'21
morning rise	-8102 Jul 21 j 06:23	18°♉11'56	

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

	-8102 Sep 18 j 13:23	0°♊	
retrograde	-8102 Nov 19 j 02:20	5°♊26'44	
opposition	-8101 Jan 18 j 16:55	0°♊35'10	2°00'16
min. Earth dist.	-8101 Jan 19 j 17:44	0°♊27'15	4.34704 AU
	-8101 Jan 23 j 07:27	30°℞♉	
direct	-8101 Mar 22 j 05:45	25°♉35'02	
	-8101 May 17 j 16:56	0°♊	
evening set	-8101 Jul 27 j 01:49	13°♊38'07	
max. Earth dist.	-8101 Aug 07 j 02:51	16°♊06'39	6.32598 AU
conjunction	-8101 Aug 08 j 13:53	16°♊26'20	1°31'59
minimum elong	-8101 Aug 08 j 13:51	16°♊26'19	1°32'29
morning rise	-8101 Aug 21 j 00:12	19°♊13'44	
	-8101 Oct 12 j 09:46	0°♋	
retrograde	-8101 Dec 21 j 17:04	6°♋51'50	
opposition	-8100 Feb 20 j 19:13	1°♋59'47	2°19'00
min. Earth dist.	-8100 Feb 21 j 18:15	1°♋52'29	4.29752 AU
	-8100 Mar 08 j 00:09	30°℞♊	
direct	-8100 Apr 22 j 22:05	27°♊02'37	
	-8100 Jun 07 j 00:03	0°♋	
evening set	-8100 Aug 26 j 07:25	15°♋11'11	
conjunction	-8100 Sep 07 j 17:28	18°♋01'04	1°30'12
minimum elong	-8100 Sep 07 j 17:31	18°♋01'06	1°30'44
max. Earth dist.	-8100 Sep 06 j 16:21	17°♋46'43	6.25895 AU
morning rise	-8100 Sep 20 j 03:14	20°♋51'01	
	-8100 Nov 01 j 19:59	0°♌	
retrograde	-8099 Jan 23 j 15:15	9°♌09'16	
opposition	-8099 Mar 26 j 00:37	4°♌14'58	1°55'57
min. Earth dist.	-8099 Mar 26 j 13:26	4°♌10'53	4.21723 AU
	-8099 May 05 j 13:11	30°℞♋	
direct	-8099 May 26 j 02:45	29°♋20'31	
	-8099 Jun 15 j 15:19	0°♌	
	-8099 Sep 15 j 10:58	15°♌	
evening set	-8099 Sep 27 j 05:19	17°♌41'18	
conjunction	-8099 Oct 09 j 19:15	20°♌36'29	1°00'24
minimum elong	-8099 Oct 09 j 19:19	20°♌36'32	1°00'47
max. Earth dist.	-8099 Oct 09 j 10:11	20°♌31'13	6.17282 AU
morning rise	-8099 Oct 22 j 10:59	23°♌32'45	
	-8099 Nov 20 j 06:55	0°♍	
retrograde	-8098 Feb 28 j 02:39	12°♍38'33	
opposition	-8098 Apr 30 j 08:27	7°♍40'36	0°54'08
min. Earth dist.	-8098 Apr 30 j 07:10	7°♍41'01	4.13078 AU
direct	-8098 Jun 29 j 04:25	2°♍47'37	
evening set	-8098 Oct 30 j 12:17	21°♍25'11	
conjunction	-8098 Nov 12 j 10:28	24°♍27'23	0°09'47
minimum elong	-8098 Nov 12 j 10:29	24°♍27'23	0°09'53
behind sun begin	-8098 Nov 12 j 03:51	24°♍23'31	
behind sun end	-8098 Nov 12 j 17:06	24°♍31'16	
max. Earth dist.	-8098 Nov 12 j 23:10	24°♍34'51	6.09479 AU
morning rise	-8098 Nov 25 j 11:40	27°♍31'18	
	-8098 Dec 06 j 04:21	0°♎	
desc. node	-8097 Jan 20 j 18:47	9°♎35'34	
retrograde	-8097 Apr 05 j 12:47	17°♎17'41	
opposition	-8097 Jun 05 j 07:43	12°♎15'51	-0°28'46
min. Earth dist.	-8097 Jun 04 j 16:08	12°♎21'00	4.06793 AU
direct	-8097 Aug 02 j 23:32	7°♎22'32	
evening set	-8097 Dec 04 j 14:12	26°♎17'44	
conjunction	-8097 Dec 17 j 20:49	29°♎25'27	-0°45'26
minimum elong	-8097 Dec 17 j 20:44	29°♎25'25	0°45'38
max. Earth dist.	-8097 Dec 19 j 02:35	29°♎43'02	6.05249 AU
	-8097 Dec 20 j 07:20	0°♏	
morning rise	-8097 Dec 31 j 07:03	2°♏35'04	
	-8096 Feb 27 j 03:10	15°♏	
retrograde	-8096 May 11 j 01:11	22°♏38'57	
min. Earth dist.	-8096 Jul 09 j 05:03	17°♏42'28	4.05149 AU
opposition	-8096 Jul 10 j 05:03	17°♏34'21	-1°42'35
	-8096 Jul 30 j 06:53	15°℞♏	
direct	-8096 Sep 06 j 08:01	12°♏38'42	
	-8096 Oct 14 j 05:18	15°♏	
	-8095 Jan 01 j 12:35	0°♐	
evening set	-8095 Jan 09 j 02:49	1°♐45'30	
conjunction	-8095 Jan 22 j 16:04	4°♐55'28	-1°24'22
minimum elong	-8095 Jan 22 j 16:00	4°♐55'25	1°24'49
max. Earth dist.	-8095 Jan 24 j 07:13	5°♐18'22	6.06218 AU
morning rise	-8095 Feb 05 j 07:46	8°♐06'39	
retrograde	-8095 Jun 15 j 19:57	27°♐55'23	
min. Earth dist.	-8095 Aug 13 j 08:53	22°♐58'14	4.08762 AU
opposition	-8095 Aug 14 j 07:49	22°♐50'24	-2°18'13
direct	-8095 Oct 11 j 16:22	17°♐51'23	
	-8094 Jan 14 j 17:24	0°♑	
evening set	-8094 Feb 15 j 01:42	6°♑57'02	
conjunction	-8094 Feb 28 j 18:35	10°♑05'55	-1°32'12
minimum elong	-8094 Feb 28 j 18:36	10°♑05'56	1°32'44
max. Earth dist.	-8094 Mar 02 j 01:55	10°♑23'57	6.12043 AU
morning rise	-8094 Mar 14 j 12:27	13°♑15'06	
	-8094 Jun 11 j 11:08	0°♒	
retrograde	-8094 Jul 20 j 01:07	2°♒21'17	
	-8094 Aug 27 j 08:58	30°℞♑	
opposition	-8094 Sep 17 j 05:56	27°♑18'22	-2°03'56
min. Earth dist.	-8094 Sep 16 j 14:46	27°♑23'33	4.16205 AU
direct	-8094 Nov 15 j 11:36	22°♑16'09	
	-8093 Jan 28 j 19:30	0°♒	
evening set	-8093 Mar 23 j 06:33	11°♒08'04	
conjunction	-8093 Apr 05 j 23:48	14°♒13'32	-1°07'44
minimum elong	-8093 Apr 05 j 23:53	14°♒13'35	1°08'10
max. Earth dist.	-8093 Apr 06 j 13:28	14°♒21'15	6.20535 AU
	-8093 Apr 09 j 10:05	15°♒	
morning rise	-8093 Apr 19 j 15:46	17°♒18'13	
	-8093 Jun 21 j 14:20	0°♓	
retrograde	-8093 Aug 21 j 20:34	5°♓32'47	
opposition	-8093 Oct 20 j 00:42	0°♓33'30	-1°09'03
min. Earth dist.	-8093 Oct 19 j 23:02	0°♓34'04	4.24849 AU
	-8093 Oct 24 j 04:32	30°℞♒	
direct	-8093 Dec 19 j 12:45	25°♒29'32	
	-8092 Feb 13 j 14:55	0°♓	
evening set	-8092 Apr 26 j 00:20	14°♓01'47	
conjunction	-8092 May 09 j 13:13	17°♓02'12	-0°21'52
minimum elong	-8092 May 09 j 13:15	17°♓02'13	0°22'03
max. Earth dist.	-8092 May 09 j 05:15	16°♓57'46	6.28742 AU
morning rise	-8092 May 22 j 23:14	20°♓01'03	
	-8092 Jul 10 j 09:08	0°♈	
retrograde	-8092 Sep 21 j 12:28	7°♈34'10	
asc. node	-8092 Oct 24 j 02:15	5°♈53'19	
opposition	-8092 Nov 20 j 01:37	2°♈38'37	0°05'14
min. Earth dist.	-8092 Nov 20 j 12:31	2°♈35'01	4.31914 AU
	-8092 Dec 11 j 05:26	30°℞♓	
direct	-8091 Jan 20 j 17:00	27°♓34'36	
	-8091 Mar 02 j 14:03	0°♈	
evening set	-8091 May 29 j 04:50	15°♈49'40	
max. Earth dist.	-8091 Jun 10 j 08:11	18°♈30'30	6.34146 AU
conjunction	-8091 Jun 11 j 09:13	18°♈44'22	0°29'40
minimum elong	-8091 Jun 11 j 09:10	18°♈44'20	0°29'47
morning rise	-8091 Jun 24 j 10:00	21°♈37'17	
	-8091 Aug 03 j 13:18	0°♉	
retrograde	-8091 Oct 22 j 21:15	8°♉50'15	

Attention, astronomical year style is used: The year -8091 in astronomical counting style is the year 8092 BCE in historical counting style.

opposition	-8091 Dec 21 j 22:52	3°♉57'32	1°16'18
min. Earth dist.	-8091 Dec 22 j 20:15	3°♉50'38	4.35334 AU
	-8090 Jan 26 j 10:26	30°℞♈	
direct	-8090 Feb 22 j 08:39	28°♈55'08	
	-8090 Mar 21 j 10:59	0°♉	
	-8090 Jun 21 j 00:14	15°♉	
evening set	-8090 Jun 30 j 04:04	17°♉00'19	
max. Earth dist.	-8090 Jul 11 j 11:23	19°♉30'47	6.35210 AU
conjunction	-8090 Jul 12 j 22:34	19°♉50'22	1°11'54
minimum elong	-8090 Jul 12 j 22:30	19°♉50'19	1°12'16
morning rise	-8090 Jul 25 j 14:09	22°♉38'58	
	-8090 Aug 29 j 06:15	0°♊	
retrograde	-8090 Nov 23 j 14:54	9°♊56'10	
opposition	-8089 Jan 23 j 06:58	5°♊04'38	2°05'13
min. Earth dist.	-8089 Jan 24 j 08:15	4°♊56'34	4.34124 AU
direct	-8089 Mar 26 j 19:31	0°♊04'50	
evening set	-8089 Jul 31 j 11:04	18°♊08'48	
conjunction	-8089 Aug 12 j 22:39	20°♊57'05	1°33'26
minimum elong	-8089 Aug 12 j 22:37	20°♊57'04	1°33'58
max. Earth dist.	-8089 Aug 11 j 13:40	20°♊38'30	6.31717 AU
morning rise	-8089 Aug 25 j 08:22	23°♊44'37	
	-8089 Sep 23 j 04:26	0°♋	
retrograde	-8089 Dec 26 j 09:09	11°♋27'56	
opposition	-8088 Feb 25 j 13:14	6°♋35'43	2°18'20
min. Earth dist.	-8088 Feb 26 j 10:56	6°♋28'51	4.28651 AU
direct	-8088 Apr 27 j 12:55	1°♋39'01	
evening set	-8088 Aug 30 j 18:23	19°♋49'21	
max. Earth dist.	-8088 Sep 11 j 04:37	22°♋26'07	6.24674 AU
conjunction	-8088 Sep 12 j 04:31	22°♋39'48	1°27'37
minimum elong	-8088 Sep 12 j 04:34	22°♋39'50	1°28'07
morning rise	-8088 Sep 24 j 14:55	25°♋30'30	
	-8088 Oct 14 j 17:11	0°♌	
retrograde	-8087 Jan 28 j 14:17	13°♌55'29	
opposition	-8087 Mar 30 j 23:09	9°♌00'43	1°49'19
min. Earth dist.	-8087 Mar 31 j 10:06	8°♌57'13	4.20474 AU
direct	-8087 May 30 j 21:28	4°♌06'33	
	-8087 Aug 29 j 01:44	15°♌	
evening set	-8087 Oct 01 j 19:53	22°♌29'21	
conjunction	-8087 Oct 14 j 10:55	25°♌25'28	0°54'13
minimum elong	-8087 Oct 14 j 11:00	25°♌25'31	0°54'35
max. Earth dist.	-8087 Oct 14 j 06:11	25°♌22'43	6.16151 AU
morning rise	-8087 Oct 27 j 03:45	28°♌22'44	
	-8087 Nov 03 j 04:43	0°♍	
retrograde	-8086 Mar 05 j 04:44	17°♍34'31	
opposition	-8086 May 05 j 09:43	12°♍36'01	0°43'08
min. Earth dist.	-8086 May 05 j 05:56	12°♍37'15	4.12169 AU
direct	-8086 Jul 04 j 01:07	7°♍43'10	
evening set	-8086 Nov 04 j 08:19	26°♍22'26	
conjunction	-8086 Nov 17 j 07:33	29°♍25'23	0°01'51
minimum elong	-8086 Nov 17 j 07:33	29°♍25'23	0°01'55
behind sun begin	-8086 Nov 16 j 23:24	29°♍20'37	
behind sun end	-8086 Nov 17 j 15:41	29°♍30'10	
max. Earth dist.	-8086 Nov 17 j 22:24	29°♍34'07	6.08868 AU
	-8086 Nov 19 j 18:18	0°♎	
morning rise	-8086 Nov 30 j 10:09	2°♎30'10	
desc. node	-8086 Nov 30 j 03:00	2°♎25'59	
retrograde	-8085 Apr 10 j 14:44	22°♎19'35	
opposition	-8085 Jun 10 j 08:50	17°♎17'11	-0°40'21
min. Earth dist.	-8085 Jun 09 j 15:13	17°♎23'02	4.06541 AU
direct	-8085 Aug 07 j 22:25	12°♎23'37	
	-8085 Dec 03 j 22:04	0°♏	
evening set	-8085 Dec 09 j 14:41	1°♏19'45	
conjunction	-8085 Dec 22 j 22:28	4°♏27'52	-0°52'16
minimum elong	-8085 Dec 22 j 22:23	4°♏27'50	0°52'31
max. Earth dist.	-8085 Dec 24 j 07:38	4°♏47'26	6.05367 AU
morning rise	-8084 Jan 05 j 09:29	7°♏37'45	
	-8084 Feb 07 j 01:29	15°♏	
retrograde	-8084 May 16 j 02:50	27°♏40'18	
min. Earth dist.	-8084 Jul 14 j 03:52	22°♏43'32	4.05639 AU
opposition	-8084 Jul 15 j 03:35	22°♏35'30	-1°50'15
direct	-8084 Sep 11 j 06:49	17°♏39'26	
	-8084 Dec 15 j 05:09	0°♐	
evening set	-8083 Jan 14 j 05:22	6°♐45'47	
conjunction	-8083 Jan 27 j 19:04	9°♐55'36	-1°27'28
minimum elong	-8083 Jan 27 j 19:01	9°♐55'34	1°27'56
max. Earth dist.	-8083 Jan 29 j 08:38	10°♐17'31	6.06992 AU
morning rise	-8083 Feb 10 j 11:22	13°♐06'37	
	-8083 May 08 j 21:04	0°♑	
retrograde	-8083 Jun 20 j 14:14	2°♑50'05	
	-8083 Aug 02 j 01:18	30°℞♐	
min. Earth dist.	-8083 Aug 18 j 03:07	27°♐53'01	4.09753 AU
opposition	-8083 Aug 19 j 01:47	27°♐45'15	-2°19'09
direct	-8083 Oct 16 j 11:47	22°♐45'44	
	-8083 Dec 25 j 22:41	0°♑	
evening set	-8082 Feb 20 j 02:39	11°♑49'46	
conjunction	-8082 Mar 05 j 19:51	14°♑58'17	-1°30'35
minimum elong	-8082 Mar 05 j 19:53	14°♑58'19	1°31'07
max. Earth dist.	-8082 Mar 07 j 01:00	15°♑15'01	6.13167 AU
morning rise	-8082 Mar 19 j 13:35	18°♑06'56	
	-8082 May 15 j 09:33	0°♒	
retrograde	-8082 Jul 24 j 16:26	7°♒06'14	
opposition	-8082 Sep 21 j 19:45	2°♒03'47	-1°58'22
min. Earth dist.	-8082 Sep 21 j 07:21	2°♒08'01	4.17332 AU
	-8082 Oct 07 j 10:48	30°℞♑	
direct	-8082 Nov 20 j 05:45	27°♑01'17	
	-8081 Jan 03 j 08:32	0°♒	
	-8081 Mar 24 j 08:07	15°♒	
evening set	-8081 Mar 28 j 03:32	15°♒51'02	
conjunction	-8081 Apr 10 j 20:34	18°♒56'00	-1°02'21
minimum elong	-8081 Apr 10 j 20:39	18°♒56'03	1°02'45
max. Earth dist.	-8081 Apr 11 j 07:01	19°♒01'53	6.21587 AU
morning rise	-8081 Apr 24 j 12:02	22°♒00'03	
	-8081 May 31 j 21:24	0°♓	
retrograde	-8081 Aug 26 j 06:06	10°♓08'48	
opposition	-8081 Oct 24 j 11:47	5°♓10'04	-0°59'26
min. Earth dist.	-8081 Oct 24 j 11:25	5°♓10'12	4.25738 AU
direct	-8081 Dec 24 j 02:50	0°♓06'02	
evening set	-8080 Apr 30 j 16:49	18°♓36'38	
conjunction	-8080 May 14 j 04:45	21°♓36'24	-0°14'43
minimum elong	-8080 May 14 j 04:47	21°♓36'25	0°14'52
behind sun begin	-8080 May 14 j 01:50	21°♓34'47	
behind sun end	-8080 May 14 j 07:43	21°♓38'02	
max. Earth dist.	-8080 May 13 j 17:41	21°♓30'15	6.29424 AU
morning rise	-8080 May 27 j 13:44	24°♓34'34	
	-8080 Jun 21 j 17:58	0°♈	
asc. node	-8080 Sep 03 j 19:29	11°♈17'16	
retrograde	-8080 Sep 25 j 22:54	12°♈04'39	
opposition	-8080 Nov 24 j 12:24	7°♈09'38	0°15'47
min. Earth dist.	-8080 Nov 25 j 01:38	7°♈05'17	4.32339 AU
direct	-8079 Jan 25 j 07:28	2°♈05'49	
evening set	-8079 Jun 02 j 17:44	20°♈20'07	
conjunction	-8079 Jun 15 j 20:50	23°♈14'14	0°36'24
minimum elong	-8079 Jun 15 j 20:47	23°♈14'12	0°36'34
max. Earth dist.	-8079 Jun 14 j 17:49	22°♈59'16	6.34278 AU

Attention, astronomical year style is used: The year -8079 in astronomical counting style is the year 8080 BCE in historical counting style.

morning rise	-8079 Jun 28 j 20:22	26°♈06'34		
	-8079 Jul 16 j 19:14	0°♉		
retrograde	-8079 Oct 27 j 07:07	13°♉19'40		
opposition	-8079 Dec 26 j 11:03	8°♉27'14	1°24'51	
min. Earth dist.	-8079 Dec 27 j 08:43	8°♉20'15	4.35202 AU	
direct	-8078 Feb 26 j 21:21	3°♉25'09		
	-8078 Jun 04 j 01:49	15°♉		
evening set	-8078 Jul 04 j 14:46	21°♉30'31		
max. Earth dist.	-8078 Jul 15 j 21:59	24°♉01'09	6.34828 AU	
conjunction	-8078 Jul 17 j 08:07	24°♉20'11	1°16'21	
minimum elong	-8078 Jul 17 j 08:03	24°♉20'09	1°16'44	
morning rise	-8078 Jul 29 j 22:32	27°♉08'29		
	-8078 Aug 11 j 23:32	0°♊		
retrograde	-8078 Nov 28 j 04:25	14°♊28'32		
opposition	-8077 Jan 27 j 22:17	9°♊37'04	2°09'26	
min. Earth dist.	-8077 Jan 28 j 23:28	9°♊29'03	4.33529 AU	
direct	-8077 Mar 31 j 10:17	4°♊37'45		
evening set	-8077 Aug 04 j 20:57	22°♊42'14		
max. Earth dist.	-8077 Aug 15 j 23:01	25°♊12'01	6.30938 AU	
conjunction	-8077 Aug 17 j 07:51	25°♊30'33	1°34'20	
minimum elong	-8077 Aug 17 j 07:50	25°♊30'33	1°34'52	
morning rise	-8077 Aug 29 j 17:25	28°♊18'18		
	-8077 Sep 06 j 07:35	0°♋		
retrograde	-8077 Dec 31 j 02:53	16°♋06'27		
opposition	-8076 Mar 01 j 08:12	11°♋13'55	2°16'46	
min. Earth dist.	-8076 Mar 02 j 04:15	11°♋07'33	4.27736 AU	
direct	-8076 May 02 j 04:47	6°♋17'35		
evening set	-8076 Sep 04 j 05:21	24°♋28'46		
conjunction	-8076 Sep 16 j 15:56	27°♋19'46	1°24'28	
minimum elong	-8076 Sep 16 j 15:59	27°♋19'48	1°24'57	
max. Earth dist.	-8076 Sep 15 j 19:46	27°♋08'11	6.23704 AU	
	-8076 Sep 28 j 07:17	0°♌		
morning rise	-8076 Sep 29 j 02:43	0°♌11'05		
	-8076 Dec 14 j 01:23	15°♌		
retrograde	-8075 Feb 02 j 12:20	18°♌41'40		
	-8075 Mar 26 j 04:24	15°℞♌		
opposition	-8075 Apr 04 j 21:07	13°♌46'28	1°41'56	
min. Earth dist.	-8075 Apr 05 j 06:23	13°♌43'30	4.19493 AU	
direct	-8075 Jun 04 j 15:36	8°♌52'35		
	-8075 Aug 08 j 17:35	15°♌		
evening set	-8075 Oct 06 j 10:16	27°♌16'36		
	-8075 Oct 18 j 02:57	0°♍		
conjunction	-8075 Oct 19 j 02:07	0°♍13'31	0°47'43	
minimum elong	-8075 Oct 19 j 02:11	0°♍13'33	0°48'01	
max. Earth dist.	-8075 Oct 18 j 22:46	0°♍11'34	6.15239 AU	
morning rise	-8075 Oct 31 j 20:17	3°♍11'45		
retrograde	-8074 Mar 10 j 04:30	22°♍28'41		
opposition	-8074 May 10 j 09:26	17°♍29'34	0°31'53	
min. Earth dist.	-8074 May 10 j 03:15	17°♍31'35	4.11382 AU	
direct	-8074 Jul 08 j 20:46	12°♍36'41		
desc. node	-8074 Oct 09 j 21:20	24°♍26'44		
	-8074 Nov 03 j 14:11	0°♎		
evening set	-8074 Nov 09 j 03:22	1°♎17'39		
conjunction	-8074 Nov 22 j 03:58	4°♎21'25	-0°06'08	
minimum elong	-8074 Nov 22 j 03:57	4°♎21'24	0°06'07	
behind sun begin	-8074 Nov 21 j 20:12	4°♎16'51		
behind sun end	-8074 Nov 22 j 11:41	4°♎25'56		
max. Earth dist.	-8074 Nov 22 j 22:41	4°♎32'26	6.08286 AU	
morning rise	-8074 Dec 05 j 07:42	7°♎26'58		
retrograde	-8073 Apr 15 j 17:34	27°♎19'18		
opposition	-8073 Jun 15 j 08:36	22°♎16'29	-0°51'35	
min. Earth dist.	-8073 Jun 14 j 14:37	22°♎22'29	4.06227 AU	
direct	-8073 Aug 12 j 20:41	17°♎22'39		
	-8073 Nov 16 j 19:00	0°♏		
evening set	-8073 Dec 14 j 14:57	6°♏20'21		
conjunction	-8073 Dec 27 j 23:30	9°♏28'50	-0°58'40	
minimum elong	-8073 Dec 27 j 23:25	9°♏28'47	0°58'58	
max. Earth dist.	-8073 Dec 29 j 08:34	9°♏48'18	6.05325 AU	
morning rise	-8072 Jan 10 j 11:35	12°♏39'06		
	-8072 Jan 20 j 14:40	15°♏		
	-8072 Apr 09 j 07:31	0°♐		
retrograde	-8072 May 21 j 01:18	2°♐40'47		
	-8072 Jul 01 j 13:53	30°℞♏		
min. Earth dist.	-8072 Jul 19 j 00:20	27°♏44'09	4.05901 AU	
opposition	-8072 Jul 20 j 00:56	27°♏35'49	-1°57'06	
direct	-8072 Sep 16 j 03:24	22°♏39'14		
	-8072 Nov 25 j 09:47	0°♐		
evening set	-8071 Jan 19 j 08:15	11°♐46'18		
conjunction	-8071 Feb 01 j 22:42	14°♐56'09	-1°29'56	
minimum elong	-8071 Feb 01 j 22:39	14°♐56'07	1°30'26	
max. Earth dist.	-8071 Feb 03 j 11:54	15°♐17'50	6.07524 AU	
morning rise	-8071 Feb 15 j 15:17	18°♐07'01		
	-8071 Apr 12 j 08:59	0°♑		
retrograde	-8071 Jun 25 j 10:45	7°♑46'00		
opposition	-8071 Aug 23 j 19:58	2°♑41'20	-2°19'09	
min. Earth dist.	-8071 Aug 22 j 23:24	2°♑48'23	4.10489 AU	
	-8071 Sep 13 j 15:38	30°℞♐		
direct	-8071 Oct 21 j 09:13	27°♐41'19		
	-8071 Nov 28 j 08:17	0°♑		
evening set	-8070 Feb 25 j 04:35	16°♑44'36		
conjunction	-8070 Mar 10 j 22:06	19°♑52'52	-1°28'20	
minimum elong	-8070 Mar 10 j 22:09	19°♑52'54	1°28'51	
max. Earth dist.	-8070 Mar 12 j 01:15	20°♑08'24	6.14042 AU	
morning rise	-8070 Mar 24 j 15:50	23°♑01'06		
	-8070 Apr 25 j 11:03	0°♒		
retrograde	-8070 Jul 29 j 06:59	11°♒54'07		
opposition	-8070 Sep 26 j 10:36	6°♒52'08	-1°51'58	
min. Earth dist.	-8070 Sep 25 j 23:02	6°♒56'04	4.18257 AU	
direct	-8070 Nov 24 j 23:14	1°♒49'17		
	-8069 Mar 07 j 07:01	15°♒		
evening set	-8069 Apr 02 j 02:03	20°♒37'26		
conjunction	-8069 Apr 15 j 18:37	23°♒41'53	-0°56'28	
minimum elong	-8069 Apr 15 j 18:42	23°♒41'55	0°56'49	
max. Earth dist.	-8069 Apr 16 j 01:04	23°♒45'30	6.22501 AU	
morning rise	-8069 Apr 29 j 09:34	26°♒45'19		
	-8069 May 14 j 02:31	0°♓		
retrograde	-8069 Aug 30 j 19:37	14°♓48'37		
opposition	-8069 Oct 29 j 00:44	9°♓50'26	-0°49'17	
min. Earth dist.	-8069 Oct 29 j 03:08	9°♓49'38	4.26548 AU	
direct	-8069 Dec 28 j 20:54	4°♓46'17		
evening set	-8068 May 05 j 10:59	23°♓15'16		
conjunction	-8068 May 18 j 22:02	26°♓14'23	-0°07'21	
minimum elong	-8068 May 18 j 22:03	26°♓14'23	0°07'28	
behind sun begin	-8068 May 18 j 14:36	26°♓10'16		
behind sun end	-8068 May 19 j 05:31	26°♓18'31		
max. Earth dist.	-8068 May 18 j 09:24	26°♓07'22	6.30084 AU	
morning rise	-8068 Jun 01 j 05:46	29°♓11'48		
	-8068 Jun 04 j 21:16	0°♈		
asc. node	-8068 Jul 14 j 00:00	8°♈06'52		
retrograde	-8068 Sep 30 j 08:49	16°♈38'45		
opposition	-8068 Nov 29 j 00:47	11°♈44'10	0°26'25	
min. Earth dist.	-8068 Nov 29 j 14:22	11°♈39'43	4.32830 AU	
direct	-8067 Jan 29 j 21:35	6°♈40'33		
evening set	-8067 Jun 07 j 08:02	24°♈53'37		

Attention, astronomical year style is used: The year -8067 in astronomical counting style is the year 8068 BCE in historical counting style.

max. Earth dist.	-8067 Jun 19 j 05:19	27°♈31'18	6.34575 AU
conjunction	-8067 Jun 20 j 09:38	27°♈47'00	0°43'02
minimum elong	-8067 Jun 20 j 09:35	27°♈46'58	0°43'14
	-8067 Jun 30 j 09:44	0°♉	
morning rise	-8067 Jul 03 j 07:51	0°♉38'40	
	-8067 Sep 18 j 10:35	15°♉	
retrograde	-8067 Oct 31 j 19:47	17°♉51'19	
	-8067 Dec 14 j 20:47	15°℞♉	
opposition	-8067 Dec 31 j 00:53	12°♉59'10	1°33'00
min. Earth dist.	-8067 Dec 31 j 23:44	12°♉51'49	4.35308 AU
direct	-8066 Mar 03 j 13:16	7°♉57'27	
	-8066 May 15 j 14:14	15°♉	
evening set	-8066 Jul 09 j 01:49	26°♉01'47	
max. Earth dist.	-8066 Jul 20 j 07:49	28°♉31'55	6.34717 AU
conjunction	-8066 Jul 21 j 18:01	28°♉50'59	1°20'24
minimum elong	-8066 Jul 21 j 17:56	28°♉50'57	1°20'50
	-8066 Jul 26 j 21:43	0°♊	
morning rise	-8066 Aug 03 j 07:25	1°♊38'52	
retrograde	-8066 Dec 02 j 17:27	19°♊00'54	
opposition	-8065 Feb 01 j 14:02	14°♊09'21	2°12'50
min. Earth dist.	-8065 Feb 02 j 13:55	14°♊01'45	4.33235 AU
direct	-8065 Apr 05 j 00:17	9°♊10'27	
evening set	-8065 Aug 09 j 06:31	27°♊14'19	
max. Earth dist.	-8065 Aug 20 j 10:38	29°♊45'26	6.30479 AU
conjunction	-8065 Aug 21 j 16:57	0°♋02'36	1°34'38
minimum elong	-8065 Aug 21 j 16:57	0°♋02'35	1°35'10
	-8065 Aug 21 j 12:22	0°♋	
morning rise	-8065 Sep 03 j 02:06	2°♋50'22	
retrograde	-8064 Jan 04 j 20:08	20°♋42'16	
opposition	-8064 Mar 06 j 02:21	15°♋49'29	2°14'18
min. Earth dist.	-8064 Mar 06 j 21:47	15°♋43'20	4.27124 AU
direct	-8064 May 06 j 20:55	10°♋53'33	
evening set	-8064 Sep 08 j 15:18	29°♋04'39	
	-8064 Sep 12 j 16:03	0°♌	
max. Earth dist.	-8064 Sep 20 j 06:39	1°♌44'54	6.22984 AU
conjunction	-8064 Sep 21 j 02:07	1°♌56'06	1°20'47
minimum elong	-8064 Sep 21 j 02:11	1°♌56'08	1°21'17
morning rise	-8064 Oct 03 j 13:42	4°♌48'03	
	-8064 Nov 20 j 10:11	15°♌	
retrograde	-8063 Feb 07 j 07:29	23°♌23'32	
opposition	-8063 Apr 09 j 17:25	18°♌27'47	1°33'56
min. Earth dist.	-8063 Apr 10 j 00:14	18°♌25'36	4.18695 AU
	-8063 May 09 j 20:11	15°℞♌	
direct	-8063 Jun 09 j 07:30	13°♌34'07	
	-8063 Jul 09 j 13:31	15°♌	
	-8063 Oct 02 j 08:14	0°♍	
evening set	-8063 Oct 10 j 22:53	1°♍59'02	
conjunction	-8063 Oct 23 j 15:52	4°♍56'45	0°40'58
minimum elong	-8063 Oct 23 j 15:56	4°♍56'47	0°41'15
max. Earth dist.	-8063 Oct 23 j 16:10	4°♍56'56	6.14449 AU
morning rise	-8063 Nov 05 j 11:05	7°♍55'51	
retrograde	-8062 Mar 15 j 04:11	27°♍17'38	
opposition	-8062 May 15 j 07:09	22°♍18'03	0°20'35
min. Earth dist.	-8062 May 15 j 00:22	22°♍20'16	4.10648 AU
direct	-8062 Jul 13 j 15:54	17°♍25'10	
desc. node	-8062 Aug 20 j 20:01	19°♍45'13	
	-8062 Oct 17 j 22:46	0°♎	
evening set	-8062 Nov 13 j 21:12	6°♎08'06	
conjunction	-8062 Nov 26 j 22:48	9°♎12'36	-0°13'50
minimum elong	-8062 Nov 26 j 22:46	9°♎12'35	0°13'51
behind sun begin	-8062 Nov 26 j 18:28	9°♎10'03	
behind sun end	-8062 Nov 27 j 03:05	9°♎15'07	
max. Earth dist.	-8062 Nov 27 j 17:59	9°♎23'54	6.07670 AU
morning rise	-8062 Dec 10 j 03:57	12°♎19'01	
	-8061 Mar 13 j 08:48	0°♏	
retrograde	-8061 Apr 20 j 16:22	2°♏14'25	
	-8061 May 28 j 20:44	30°℞♎	
min. Earth dist.	-8061 Jun 19 j 10:18	27°♎17'50	4.05808 AU
opposition	-8061 Jun 20 j 05:59	27°♎11'16	-1°02'16
direct	-8061 Aug 17 j 14:55	22°♎17'08	
	-8061 Oct 28 j 15:36	0°♏	
evening set	-8061 Dec 19 j 14:01	11°♏17'21	
conjunction	-8060 Jan 01 j 23:40	14°♏26'21	-1°04'33
minimum elong	-8060 Jan 01 j 23:35	14°♏26'18	1°04'52
max. Earth dist.	-8060 Jan 03 j 10:02	14°♏46'35	6.05134 AU
	-8060 Jan 04 j 08:49	15°♏	
morning rise	-8060 Jan 15 j 12:30	17°♏37'02	
	-8060 Mar 13 j 07:15	0°♐	
retrograde	-8060 May 26 j 01:04	7°♐38'38	
opposition	-8060 Jul 24 j 21:10	2°♐33'36	-2°03'01
min. Earth dist.	-8060 Jul 23 j 21:46	2°♐41'34	4.05969 AU
	-8060 Aug 13 j 17:13	30°℞♏	
direct	-8060 Sep 21 j 00:15	27°♏36'37	
	-8060 Oct 29 j 05:52	0°♐	
evening set	-8059 Jan 24 j 10:28	16°♐45'17	
conjunction	-8059 Feb 07 j 01:36	19°♐55'17	-1°31'41
minimum elong	-8059 Feb 07 j 01:34	19°♐55'16	1°32'12
max. Earth dist.	-8059 Feb 08 j 14:30	20°♐16'45	6.07844 AU
morning rise	-8059 Feb 20 j 18:41	23°♐06'11	
	-8059 Mar 23 j 15:24	0°♑	
retrograde	-8059 Jun 30 j 05:47	12°♑41'25	
opposition	-8059 Aug 28 j 13:42	7°♑37'04	-2°18'06
min. Earth dist.	-8059 Aug 27 j 17:18	7°♑44'02	4.11051 AU
direct	-8059 Oct 26 j 03:58	2°♑36'39	
evening set	-8058 Mar 02 j 06:34	21°♑39'51	
conjunction	-8058 Mar 16 j 00:12	24°♑47'53	-1°25'25
minimum elong	-8058 Mar 16 j 00:16	24°♑47'55	1°25'56
max. Earth dist.	-8058 Mar 17 j 00:10	25°♑01'35	6.14811 AU
morning rise	-8058 Mar 29 j 17:59	27°♑55'47	
	-8058 Apr 07 j 22:35	0°♒	
	-8058 Jul 01 j 06:36	15°♒	
retrograde	-8058 Aug 02 j 23:21	16°♒42'59	
	-8058 Sep 04 j 09:16	15°℞♒	
opposition	-8058 Oct 01 j 01:46	11°♒41'28	-1°44'47
min. Earth dist.	-8058 Sep 30 j 16:28	11°♒44'38	4.19143 AU
direct	-8058 Nov 29 j 19:32	6°♒38'20	
	-8057 Feb 16 j 02:10	15°♒	
evening set	-8057 Apr 07 j 00:24	25°♒24'47	
conjunction	-8057 Apr 20 j 16:43	28°♒28'43	-0°50'10
minimum elong	-8057 Apr 20 j 16:47	28°♒28'45	0°50'30
max. Earth dist.	-8057 Apr 20 j 22:16	28°♒31'50	6.23465 AU
	-8057 Apr 27 j 11:18	0°♓	
morning rise	-8057 May 04 j 06:49	1°♓31'26	
retrograde	-8057 Sep 04 j 07:14	19°♓29'04	
opposition	-8057 Nov 02 j 13:46	14°♓31'23	-0°38'47
min. Earth dist.	-8057 Nov 02 j 16:43	14°♓30'24	4.27495 AU
direct	-8056 Jan 02 j 12:47	9°♓27'14	
evening set	-8056 May 10 j 04:26	27°♓53'44	
	-8056 May 19 j 16:36	0°♈	
asc. node	-8056 May 22 j 18:20	0°♈40'58	
conjunction	-8056 May 23 j 14:12	0°♈52'00	0°00'07
minimum elong	-8056 May 23 j 14:12	0°♈52'00	0°00'04
behind sun begin	-8056 May 23 j 06:36	0°♈47'48	

Attention, astronomical year style is used: The year -8056 in astronomical counting style is the year 8057 BCE in historical counting style.

behind sun end	-8056 May 23 j 21:47	0°♈56'11	
max. Earth dist.	-8056 May 22 j 22:22	0°♈43'13	6.30935 AU
morning rise	-8056 Jun 05 j 20:50	3°♈48'35	
retrograde	-8056 Oct 04 j 20:17	21°♈11'56	
opposition	-8056 Dec 03 j 13:05	16°♈17'42	0°36'51
min. Earth dist.	-8056 Dec 04 j 04:49	16°♈12'33	4.33501 AU
direct	-8055 Feb 03 j 13:48	11°♈14'11	
evening set	-8055 Jun 11 j 20:39	29°♈25'04	
	-8055 Jun 14 j 12:07	0°♉	
conjunction	-8055 Jun 24 j 20:58	2°♉17'42	0°49'22
minimum elong	-8055 Jun 24 j 20:54	2°♉17'39	0°49'35
max. Earth dist.	-8055 Jun 23 j 16:23	2°♉01'51	6.34981 AU
morning rise	-8055 Jul 07 j 17:40	5°♉08'34	
	-8055 Aug 24 j 19:11	15°♉	
retrograde	-8055 Nov 05 j 05:11	22°♉20'37	
opposition	-8054 Jan 04 j 13:29	17°♉28'35	1°40'32
min. Earth dist.	-8054 Jan 05 j 12:01	17°♉21'21	4.35424 AU
	-8054 Jan 24 j 18:28	15°℞♉	
direct	-8054 Mar 08 j 01:38	12°♉27'11	
	-8054 Apr 19 j 08:23	15°♉	
	-8054 Jul 11 j 04:22	0°♊	
evening set	-8054 Jul 13 j 11:26	0°♊30'26	
max. Earth dist.	-8054 Jul 24 j 15:48	2°♊59'52	6.34504 AU
conjunction	-8054 Jul 26 j 02:23	3°♊19'11	1°23'57
minimum elong	-8054 Jul 26 j 02:20	3°♊19'09	1°24'25
morning rise	-8054 Aug 07 j 14:53	6°♊06'45	
retrograde	-8054 Dec 07 j 07:42	23°♊31'20	
opposition	-8053 Feb 06 j 05:07	18°♊39'43	2°15'30
min. Earth dist.	-8053 Feb 07 j 05:47	18°♊31'53	4.32692 AU
direct	-8053 Apr 09 j 15:02	13°♊41'11	
	-8053 Aug 05 j 18:34	0°♋	
evening set	-8053 Aug 13 j 15:03	1°♋45'15	
max. Earth dist.	-8053 Aug 24 j 19:05	4°♋16'40	6.29633 AU
conjunction	-8053 Aug 26 j 01:11	4°♋33'43	1°34'25
minimum elong	-8053 Aug 26 j 01:11	4°♋33'43	1°34'56
morning rise	-8053 Sep 07 j 10:19	7°♋21'49	
retrograde	-8052 Jan 09 j 12:47	25°♋19'00	
opposition	-8052 Mar 10 j 20:48	20°♋25'51	2°11'06
min. Earth dist.	-8052 Mar 11 j 14:09	20°♋20'20	4.26027 AU
direct	-8052 May 11 j 11:09	15°♋30'15	
	-8052 Aug 27 j 14:03	0°♌	
evening set	-8052 Sep 13 j 01:58	3°♌42'58	
conjunction	-8052 Sep 25 j 13:24	6°♌35'10	1°16'37
minimum elong	-8052 Sep 25 j 13:29	6°♌35'12	1°17'05
max. Earth dist.	-8052 Sep 24 j 20:51	6°♌25'37	6.21739 AU
morning rise	-8052 Oct 08 j 01:40	9°♌27'58	
	-8052 Nov 01 j 20:19	15°♌	
retrograde	-8051 Feb 12 j 07:01	28°♌10'16	
opposition	-8051 Apr 14 j 15:43	23°♌14'03	1°25'16
min. Earth dist.	-8051 Apr 14 j 21:45	23°♌12'07	4.17368 AU
direct	-8051 Jun 14 j 02:35	18°♌20'34	
	-8051 Sep 15 j 07:01	0°♍	
evening set	-8051 Oct 15 j 14:35	6°♍48'17	
conjunction	-8051 Oct 28 j 08:38	9°♍47'03	0°33'49
minimum elong	-8051 Oct 28 j 08:41	9°♍47'05	0°34'03
max. Earth dist.	-8051 Oct 28 j 10:23	9°♍48'05	6.13170 AU
morning rise	-8051 Nov 10 j 05:21	12°♍47'21	
	-8050 Feb 09 j 11:45	0°♎	
retrograde	-8050 Mar 20 j 05:50	2°♎15'34	
	-8050 Apr 28 j 02:48	30°℞♍	
opposition	-8050 May 20 j 08:06	27°♍15'26	0°08'49
min. Earth dist.	-8050 May 19 j 22:25	27°♍18'36	4.09534 AU
desc. node	-8050 Jun 30 j 17:34	22°♍53'54	
direct	-8050 Jul 18 j 11:46	22°♍22'30	
	-8050 Sep 28 j 11:49	0°♎	
evening set	-8050 Nov 18 j 19:29	11°♎08'49	
conjunction	-8050 Dec 01 j 22:25	14°♎14'16	-0°21'42
minimum elong	-8050 Dec 01 j 22:23	14°♎14'14	0°21'47
max. Earth dist.	-8050 Dec 02 j 20:53	14°♎27'31	6.06825 AU
morning rise	-8050 Dec 15 j 04:45	17°♎21'35	
	-8049 Feb 12 j 08:39	0°♏	
retrograde	-8049 Apr 25 j 21:43	7°♏20'40	
min. Earth dist.	-8049 Jun 24 j 11:48	2°♏23'53	4.05335 AU
opposition	-8049 Jun 25 j 07:58	2°♏17'08	-1°12'55
	-8049 Jul 13 j 02:29	30°℞♎	
direct	-8049 Aug 22 j 15:31	27°♎22'44	
	-8049 Oct 01 j 17:07	0°♏	
	-8049 Dec 18 j 15:32	15°♏	
evening set	-8049 Dec 24 j 18:16	16°♏25'28	
conjunction	-8048 Jan 07 j 04:50	19°♏34'53	-1°10'12
minimum elong	-8048 Jan 07 j 04:45	19°♏34'50	1°10'33
max. Earth dist.	-8048 Jan 08 j 17:07	19°♏56'14	6.05084 AU
morning rise	-8048 Jan 20 j 18:32	22°♏45'55	
	-8048 Feb 21 j 20:42	0°♐	
retrograde	-8048 May 31 j 02:30	12°♐46'01	
opposition	-8048 Jul 29 j 21:02	7°♐40'59	-2°08'13
min. Earth dist.	-8048 Jul 28 j 20:29	7°♐49'21	4.06418 AU
direct	-8048 Sep 25 j 23:40	2°♐43'37	
evening set	-8047 Jan 29 j 16:49	21°♐52'15	
conjunction	-8047 Feb 12 j 08:20	25°♐02'02	-1°32'51
minimum elong	-8047 Feb 12 j 08:19	25°♐02'01	1°33'22
max. Earth dist.	-8047 Feb 13 j 20:02	25°♐22'45	6.08758 AU
morning rise	-8047 Feb 26 j 01:45	28°♐12'36	
	-8047 Mar 05 j 21:28	0°♑	
retrograde	-8047 Jul 05 j 02:16	17°♑41'12	
opposition	-8047 Sep 02 j 09:19	12°♑37'06	-2°16'03
min. Earth dist.	-8047 Sep 01 j 14:02	12°♑43'42	4.12350 AU
direct	-8047 Oct 31 j 04:04	7°♑36'15	
evening set	-8046 Mar 07 j 09:19	26°♑36'15	
conjunction	-8046 Mar 21 j 03:06	29°♑43'38	-1°21'56
minimum elong	-8046 Mar 21 j 03:10	29°♑43'41	1°22'25
max. Earth dist.	-8046 Mar 22 j 02:50	29°♑57'09	6.16409 AU
	-8046 Mar 22 j 07:50	0°♒	
morning rise	-8046 Apr 03 j 20:23	2°♒50'40	
	-8046 Jun 01 j 19:31	15°♒	
retrograde	-8046 Aug 07 j 13:23	21°♒28'50	
opposition	-8046 Oct 05 j 16:11	16°♒27'50	-1°36'57
min. Earth dist.	-8046 Oct 05 j 07:51	16°♒30'39	4.20876 AU
	-8046 Oct 16 j 15:24	15°℞♒	
direct	-8046 Dec 04 j 13:59	11°♒24'29	
	-8045 Jan 22 j 18:29	15°♒	
evening set	-8045 Apr 11 j 20:31	0°♓06'04	
	-8045 Apr 11 j 09:35	0°♓	
conjunction	-8045 Apr 25 j 11:55	3°♓08'57	-0°43'43
minimum elong	-8045 Apr 25 j 11:59	3°♓09'00	0°44'01
max. Earth dist.	-8045 Apr 25 j 13:12	3°♓09'40	6.25187 AU
morning rise	-8045 May 09 j 01:15	6°♓10'36	
retrograde	-8045 Sep 08 j 15:47	24°♓00'26	
opposition	-8045 Nov 06 j 23:48	19°♓03'15	-0°28'25
min. Earth dist.	-8045 Nov 07 j 05:17	19°♓01'26	4.29052 AU
direct	-8044 Jan 07 j 04:02	13°♓59'02	
asc. node	-8044 Apr 02 j 09:17	23°♓32'14	
	-8044 May 03 j 22:25	0°♈	
evening set	-8044 May 14 j 17:21	2°♈21'10	

Attention, astronomical year style is used: The year -8044 in astronomical counting style is the year 8045 BCE in historical counting style.

max. Earth dist.	-8044 May 27 j 08:46	5°♈08'52	6.32205 AU
conjunction	-8044 May 28 j 02:01	5°♈18'26	0°07'17
minimum elong	-8044 May 28 j 02:00	5°♈18'25	0°07'16
behind sun begin	-8044 May 27 j 18:31	5°♈14'17	
behind sun end	-8044 May 28 j 09:28	5°♈22'32	
morning rise	-8044 Jun 10 j 07:06	8°♈13'54	
retrograde	-8044 Oct 09 j 01:06	25°♈32'51	
opposition	-8044 Dec 07 j 20:39	20°♈39'03	0°46'35
min. Earth dist.	-8044 Dec 08 j 13:29	20°♈33'34	4.34397 AU
direct	-8043 Feb 07 j 23:20	15°♈35'46	
	-8043 May 29 j 21:46	0°♉	
evening set	-8043 Jun 16 j 04:17	3°♉44'07	
max. Earth dist.	-8043 Jun 27 j 18:56	6°♉18'08	6.35401 AU
conjunction	-8043 Jun 29 j 03:03	6°♉35'57	0°55'08
minimum elong	-8043 Jun 29 j 02:59	6°♉35'54	0°55'24
morning rise	-8043 Jul 11 j 22:37	9°♉26'09	
	-8043 Aug 06 j 21:16	15°♉	
retrograde	-8043 Nov 09 j 12:47	26°♉38'10	
opposition	-8042 Jan 08 j 21:53	21°♉46'20	1°47'11
min. Earth dist.	-8042 Jan 09 j 22:39	21°♉38'24	4.35353 AU
direct	-8042 Mar 12 j 11:25	16°♉45'14	
	-8042 Jun 25 j 12:14	0°♊	
evening set	-8042 Jul 17 j 16:16	4°♊48'22	
max. Earth dist.	-8042 Jul 28 j 19:30	7°♊17'24	6.33920 AU
conjunction	-8042 Jul 30 j 06:26	7°♊36'57	1°26'54
minimum elong	-8042 Jul 30 j 06:23	7°♊36'56	1°27'22
morning rise	-8042 Aug 11 j 18:04	10°♊24'26	
retrograde	-8042 Dec 11 j 17:03	27°♊53'14	
opposition	-8041 Feb 10 j 16:36	23°♊01'32	2°17'21
min. Earth dist.	-8041 Feb 11 j 16:33	22°♊53'56	4.31653 AU
direct	-8041 Apr 13 j 23:16	18°♊03'25	
	-8041 Jul 20 j 15:05	0°♋	
evening set	-8041 Aug 17 j 21:01	6°♋09'46	
max. Earth dist.	-8041 Aug 29 j 01:23	8°♋41'54	6.28214 AU
conjunction	-8041 Aug 30 j 06:57	8°♋58'44	1°33'37
minimum elong	-8041 Aug 30 j 06:57	8°♋58'44	1°34'10
morning rise	-8041 Sep 11 j 16:14	11°♋47'28	
retrograde	-8040 Jan 14 j 06:44	29°♋52'11	
opposition	-8040 Mar 15 j 13:41	24°♋58'45	2°07'10
min. Earth dist.	-8040 Mar 16 j 07:04	24°♋53'13	4.24310 AU
direct	-8040 May 16 j 01:05	20°♋03'29	
	-8040 Aug 10 j 07:01	0°♌	
evening set	-8040 Sep 17 j 12:02	8°♌20'15	
max. Earth dist.	-8040 Sep 29 j 09:26	11°♌04'59	6.19885 AU
conjunction	-8040 Sep 30 j 00:17	11°♌13'34	1°11'58
minimum elong	-8040 Sep 30 j 00:22	11°♌13'37	1°12'25
morning rise	-8040 Oct 12 j 13:41	14°♌07'39	
	-8040 Oct 16 j 08:57	15°♌	
	-8039 Jan 03 j 06:15	0°♍	
retrograde	-8039 Feb 17 j 05:45	2°♍59'01	
	-8039 Apr 03 j 21:54	30°℞♌	
opposition	-8039 Apr 19 j 14:19	28°♌02'17	1°15'59
min. Earth dist.	-8039 Apr 19 j 17:14	28°♌01'21	4.15524 AU
direct	-8039 Jun 18 j 19:05	23°♌09'02	
	-8039 Aug 26 j 11:33	0°♍	
evening set	-8039 Oct 20 j 07:38	11°♍41'31	
conjunction	-8039 Nov 02 j 03:01	14°♍41'35	0°26'21
minimum elong	-8039 Nov 02 j 03:04	14°♍41'37	0°26'33
max. Earth dist.	-8039 Nov 02 j 08:41	14°♍44'55	6.11514 AU
morning rise	-8039 Nov 15 j 01:09	17°♍43'15	
	-8038 Jan 11 j 17:25	0°♎	
retrograde	-8038 Mar 25 j 12:13	7°♎19'13	
desc. node	-8038 May 10 j 09:29	4°♎14'06	
opposition	-8038 May 25 j 10:58	2°♎18'30	-0°03'13
min. Earth dist.	-8038 May 24 j 23:37	2°♎22'14	4.08207 AU
	-8038 Jun 12 j 18:25	30°℞♍	
direct	-8038 Jul 23 j 11:15	27°♍25'28	
	-8038 Sep 01 j 11:01	0°♎	
evening set	-8038 Nov 23 j 20:24	16°♎15'51	
conjunction	-8038 Dec 07 j 00:37	19°♎22'13	-0°29'33
minimum elong	-8038 Dec 07 j 00:34	19°♎22'12	0°29'40
max. Earth dist.	-8038 Dec 08 j 02:42	19°♎37'37	6.05949 AU
morning rise	-8038 Dec 20 j 08:19	22°♎30'30	
	-8037 Jan 22 j 12:26	0°♏	
retrograde	-8037 May 01 j 03:02	12°♏32'31	
opposition	-8037 Jun 30 j 11:16	7°♏28'33	-1°23'08
min. Earth dist.	-8037 Jun 29 j 12:52	7°♏36'05	4.05022 AU
direct	-8037 Aug 27 j 15:43	2°♏33'49	
	-8037 Nov 30 j 18:31	15°♏	
evening set	-8037 Dec 30 j 00:37	21°♏38'18	
conjunction	-8036 Jan 12 j 11:58	24°♏47'56	-1°15'21
minimum elong	-8036 Jan 12 j 11:53	24°♏47'53	1°15'45
max. Earth dist.	-8036 Jan 14 j 00:55	25°♏09'38	6.05305 AU
morning rise	-8036 Jan 26 j 02:28	27°♏59'06	
	-8036 Feb 03 j 19:24	0°♐	
retrograde	-8036 Jun 05 j 04:15	17°♐56'06	
opposition	-8036 Aug 03 j 21:25	12°♐50'54	-2°12'27
min. Earth dist.	-8036 Aug 02 j 20:52	12°♐59'17	4.07127 AU
direct	-8036 Oct 01 j 02:12	7°♐52'57	
evening set	-8035 Feb 03 j 23:16	27°♐00'21	
	-8035 Feb 16 j 22:24	0°♑	
conjunction	-8035 Feb 17 j 15:25	0°♑09'51	-1°33'20
minimum elong	-8035 Feb 17 j 15:25	0°♑09'51	1°33'51
max. Earth dist.	-8035 Feb 19 j 03:49	0°♑30'54	6.09856 AU
morning rise	-8035 Mar 03 j 08:52	3°♑19'55	
retrograde	-8035 Jul 09 j 23:17	22°♑41'06	
min. Earth dist.	-8035 Sep 06 j 10:42	17°♑43'30	4.13698 AU
opposition	-8035 Sep 07 j 04:47	17°♑37'19	-2°13'02
direct	-8035 Nov 05 j 02:52	12°♑36'01	
	-8034 Mar 05 j 14:45	0°♒	
evening set	-8034 Mar 12 j 12:03	1°♒32'47	
conjunction	-8034 Mar 26 j 05:36	4°♒39'29	-1°17'53
minimum elong	-8034 Mar 26 j 05:41	4°♒39'32	1°18'20
max. Earth dist.	-8034 Mar 27 j 01:14	4°♒50'38	6.17875 AU
morning rise	-8034 Apr 08 j 22:42	7°♒45'45	
	-8034 May 12 j 06:51	15°♒	
retrograde	-8034 Aug 12 j 02:52	26°♒15'42	
opposition	-8034 Oct 10 j 06:53	21°♒15'10	-1°28'31
min. Earth dist.	-8034 Oct 10 j 00:32	21°♒17'19	4.22309 AU
direct	-8034 Dec 09 j 09:22	16°♒11'32	
	-8033 Mar 25 j 12:11	0°♓	
evening set	-8033 Apr 16 j 17:15	4°♓49'34	
conjunction	-8033 Apr 30 j 08:05	7°♓51'38	-0°36'56
minimum elong	-8033 Apr 30 j 08:08	7°♓51'40	0°37'12
max. Earth dist.	-8033 Apr 30 j 07:16	7°♓51'11	6.26503 AU
morning rise	-8033 May 13 j 20:19	10°♓52'20	
retrograde	-8033 Sep 13 j 02:27	28°♓36'02	
opposition	-8033 Nov 11 j 11:41	23°♓39'24	-0°17'44
min. Earth dist.	-8033 Nov 11 j 18:59	23°♓36'59	4.30136 AU
direct	-8032 Jan 11 j 19:23	18°♓35'15	
asc. node	-8032 Feb 10 j 22:51	19°♓56'55	
	-8032 Apr 16 j 17:09	0°♈	
evening set	-8032 May 19 j 08:31	6°♈54'36	

Attention, astronomical year style is used: The year -8032 in astronomical counting style is the year 8033 BCE in historical counting style.

conjunction	-8032 Jun 01 j 15:48	9°♈51'01	0°14'30
minimum elong	-8032 Jun 01 j 15:46	9°♈51'00	0°14'32
behind sun begin	-8032 Jun 01 j 12:19	9°♈49'05	
behind sun end	-8032 Jun 01 j 19:14	9°♈52'54	
max. Earth dist.	-8032 May 31 j 18:31	9°♈39'14	6.32966 AU
morning rise	-8032 Jun 14 j 19:44	12°♈45'40	
	-8032 Oct 08 j 19:05	0°♉	
retrograde	-8032 Oct 13 j 11:04	0°♉02'08	
	-8032 Oct 18 j 02:45	30°℞♈	
opposition	-8032 Dec 12 j 08:13	25°♈08'40	0°56'23
min. Earth dist.	-8032 Dec 13 j 03:01	25°♈02'33	4.34805 AU
direct	-8031 Feb 12 j 13:38	20°♈05'34	
	-8031 May 12 j 08:07	0°♉	
evening set	-8031 Jun 20 j 15:28	8°♉12'46	
max. Earth dist.	-8031 Jul 02 j 04:52	10°♉46'10	6.35420 AU
conjunction	-8031 Jul 03 j 13:03	11°♉04'02	1°00'49
minimum elong	-8031 Jul 03 j 12:59	11°♉04'00	1°01'07
morning rise	-8031 Jul 16 j 07:10	13°♉53'40	
	-8031 Jul 21 j 07:53	15°♉	
	-8031 Oct 18 j 05:25	0°♊	
retrograde	-8031 Nov 13 j 23:16	1°♊06'56	
	-8031 Dec 10 j 20:03	30°℞♉	
opposition	-8030 Jan 13 j 11:08	26°♉15'15	1°53'34
min. Earth dist.	-8030 Jan 14 j 11:51	26°♉07'21	4.35008 AU
direct	-8030 Mar 16 j 23:58	21°♉14'35	
	-8030 Jun 07 j 10:32	0°♊	
evening set	-8030 Jul 22 j 02:02	9°♊18'08	
max. Earth dist.	-8030 Aug 02 j 03:10	11°♊46'23	6.33223 AU
conjunction	-8030 Aug 03 j 15:09	12°♊06'35	1°29'29
minimum elong	-8030 Aug 03 j 15:06	12°♊06'33	1°29'58
morning rise	-8030 Aug 16 j 02:16	14°♊54'03	
	-8030 Nov 05 j 21:33	0°♋	
retrograde	-8030 Dec 16 j 09:55	2°♋27'23	
	-8029 Jan 26 j 12:11	30°℞♊	
opposition	-8029 Feb 15 j 09:47	27°♊35'35	2°18'29
min. Earth dist.	-8029 Feb 16 j 09:57	27°♊27'55	4.30663 AU
direct	-8029 Apr 18 j 15:15	22°♊37'53	
	-8029 Jul 01 j 13:01	0°♋	
evening set	-8029 Aug 22 j 07:22	10°♋45'52	
conjunction	-8029 Sep 03 j 17:25	13°♋35'18	1°32'15
minimum elong	-8029 Sep 03 j 17:27	13°♋35'19	1°32'48
max. Earth dist.	-8029 Sep 02 j 14:11	13°♋19'47	6.27026 AU
morning rise	-8029 Sep 16 j 02:52	16°♋24'38	
	-8029 Nov 23 j 12:06	0°♌	
retrograde	-8028 Jan 19 j 02:44	4°♌35'56	
	-8028 Mar 18 j 03:11	30°℞♋	
opposition	-8028 Mar 20 j 11:18	29°♋42'10	2°02'16
min. Earth dist.	-8028 Mar 21 j 02:02	29°♋37'29	4.23027 AU
direct	-8028 May 20 j 17:50	24°♋47'21	
	-8028 Jul 19 j 20:35	0°♌	
evening set	-8028 Sep 22 j 01:55	13°♌06'18	
	-8028 Sep 30 j 06:37	15°♌	
conjunction	-8028 Oct 04 j 14:50	16°♌00'29	1°06'44
minimum elong	-8028 Oct 04 j 14:55	16°♌00'31	1°07'08
max. Earth dist.	-8028 Oct 04 j 02:51	15°♌53'32	6.18645 AU
morning rise	-8028 Oct 17 j 05:15	18°♌55'33	
	-8028 Dec 08 j 05:02	0°♍	
retrograde	-8027 Feb 22 j 08:39	7°♍53'36	
opposition	-8027 Apr 24 j 15:32	2°♍56'21	1°05'57
min. Earth dist.	-8027 Apr 24 j 16:38	2°♍56'00	4.14419 AU
	-8027 May 19 j 03:07	30°℞♌	
direct	-8027 Jun 23 j 16:54	28°♌03'15	
	-8027 Jul 28 j 18:32	0°♍	
evening set	-8027 Oct 25 j 02:32	16°♍37'50	
conjunction	-8027 Nov 06 j 23:10	19°♍38'50	0°18'39
minimum elong	-8027 Nov 06 j 23:12	19°♍38'51	0°18'48
max. Earth dist.	-8027 Nov 07 j 08:40	19°♍44'24	6.10669 AU
morning rise	-8027 Nov 19 j 22:39	22°♍41'28	
	-8027 Dec 22 j 10:31	0°♎	
desc. node	-8026 Mar 20 j 08:04	12°♎11'39	
retrograde	-8026 Mar 30 j 15:36	12°♎21'41	
opposition	-8026 May 30 j 13:08	7°♎20'27	-0°15'11
min. Earth dist.	-8026 May 29 j 23:18	7°♎25'01	4.07721 AU
direct	-8026 Jul 28 j 09:08	2°♎27'22	
evening set	-8026 Nov 28 j 20:32	21°♎19'04	
conjunction	-8026 Dec 12 j 01:43	24°♎25'56	-0°37'04
minimum elong	-8026 Dec 12 j 01:39	24°♎25'53	0°37'13
max. Earth dist.	-8026 Dec 13 j 05:22	24°♎42'15	6.05835 AU
morning rise	-8026 Dec 25 j 10:32	27°♎34'42	
	-8025 Jan 04 j 20:48	0°♏	
	-8025 Mar 25 j 19:57	15°♏	
retrograde	-8025 May 06 j 04:21	17°♏36'51	
	-8025 Jun 16 j 09:44	15°℞♏	
opposition	-8025 Jul 05 j 11:29	12°♏32'32	-1°32'26
min. Earth dist.	-8025 Jul 04 j 12:13	12°♏40'23	4.05298 AU
direct	-8025 Sep 01 j 15:46	7°♏37'24	
	-8025 Nov 10 j 21:20	15°♏	
evening set	-8024 Jan 04 j 03:34	26°♏41'55	
conjunction	-8024 Jan 17 j 15:48	29°♏51'35	-1°19'47
minimum elong	-8024 Jan 17 j 15:44	29°♏51'32	1°20'13
	-8024 Jan 18 j 06:10	0°♐	
max. Earth dist.	-8024 Jan 19 j 06:37	0°♐14'20	6.05927 AU
morning rise	-8024 Jan 31 j 06:42	3°♐02'38	
retrograde	-8024 Jun 10 j 02:55	22°♐55'15	
opposition	-8024 Aug 08 j 17:27	17°♐50'10	-2°15'31
min. Earth dist.	-8024 Aug 07 j 17:52	17°♐58'13	4.08041 AU
direct	-8024 Oct 06 j 00:03	12°♐51'46	
	-8023 Jan 31 j 11:23	0°♑	
evening set	-8023 Feb 09 j 01:52	1°♑57'43	
conjunction	-8023 Feb 22 j 18:13	5°♑06'51	-1°33'06
minimum elong	-8023 Feb 22 j 18:14	5°♑06'52	1°33'39
max. Earth dist.	-8023 Feb 24 j 03:15	5°♑25'55	6.10952 AU
morning rise	-8023 Mar 08 j 11:57	8°♑16'30	
retrograde	-8023 Jul 14 j 14:19	27°♑30'45	
opposition	-8023 Sep 11 j 20:02	22°♑27'21	-2°09'14
min. Earth dist.	-8023 Sep 11 j 03:14	22°♑33'05	4.14865 AU
direct	-8023 Nov 09 j 21:14	17°♑25'37	
	-8022 Feb 16 j 11:32	0°♒	
evening set	-8022 Mar 17 j 10:52	6°♒20'14	
conjunction	-8022 Mar 31 j 04:26	9°♒26'27	-1°13'26
minimum elong	-8022 Mar 31 j 04:31	9°♒26'30	1°13'53
max. Earth dist.	-8022 Mar 31 j 21:23	9°♒36'03	6.19037 AU
morning rise	-8022 Apr 13 j 21:03	12°♒32'03	
	-8022 Apr 24 j 22:43	15°♒	
	-8022 Jul 23 j 20:11	0°♓	
retrograde	-8022 Aug 16 j 15:39	0°♓55'25	
	-8022 Sep 09 j 05:33	30°℞♒	
opposition	-8022 Oct 14 j 18:58	25°♒55'29	-1°19'47
min. Earth dist.	-8022 Oct 14 j 15:13	25°♒56'45	4.23343 AU
direct	-8022 Dec 14 j 01:26	20°♒51'43	
	-8021 Mar 07 j 04:08	0°♓	
evening set	-8021 Apr 21 j 11:27	9°♓27'43	
conjunction	-8021 May 05 j 01:30	12°♓29'11	-0°30'04
minimum elong	-8021 May 05 j 01:33	12°♓29'12	0°30'17

Attention, astronomical year style is used: The year -8021 in astronomical counting style is the year 8022 BCE in historical counting style.

max. Earth dist.	-8021 May 04 j 20:44	12°♓26'31	6.27334 AU
morning rise	-8021 May 18 j 12:55	15°♓29'11	
	-8021 Aug 03 j 07:17	0°♈	
retrograde	-8021 Sep 17 j 11:24	3°♈08'49	
	-8021 Nov 02 j 02:12	30°℞♓	
opposition	-8021 Nov 15 j 22:26	28°♓12'41	-0°07'08
min. Earth dist.	-8021 Nov 16 j 07:22	28°♓09'43	4.30718 AU
asc. node	-8021 Dec 22 j 13:38	24°♓05'42	
direct	-8020 Jan 16 j 09:11	23°♓08'34	
	-8020 Mar 27 j 23:20	0°♈	
evening set	-8020 May 23 j 22:50	11°♈26'58	
max. Earth dist.	-8020 Jun 05 j 06:18	14°♈10'13	6.33271 AU
conjunction	-8020 Jun 06 j 04:55	14°♈22'45	0°21'35
minimum elong	-8020 Jun 06 j 04:53	14°♈22'44	0°21'38
morning rise	-8020 Jun 19 j 07:28	17°♈16'44	
	-8020 Aug 23 j 12:43	0°♉	
retrograde	-8020 Oct 17 j 21:06	4°♉32'18	
	-8020 Dec 14 j 03:44	30°℞♈	
opposition	-8020 Dec 16 j 19:54	29°♈39'13	1°05'49
min. Earth dist.	-8020 Dec 17 j 15:53	29°♈32'45	4.34831 AU
direct	-8019 Feb 17 j 03:10	24°♈36'28	
	-8019 Apr 21 j 04:39	0°♉	
evening set	-8019 Jun 25 j 03:07	12°♉43'36	
	-8019 Jul 05 j 09:23	15°♉	
conjunction	-8019 Jul 07 j 23:18	15°♉34'25	1°06'08
minimum elong	-8019 Jul 07 j 23:14	15°♉34'22	1°06'28
max. Earth dist.	-8019 Jul 06 j 13:09	15°♉15'26	6.35147 AU
morning rise	-8019 Jul 20 j 16:24	18°♉23'41	
	-8019 Sep 16 j 17:42	0°♊	
retrograde	-8019 Nov 18 j 12:27	5°♊39'08	
opposition	-8018 Jan 18 j 01:48	0°♊47'31	1°59'17
min. Earth dist.	-8018 Jan 19 j 02:47	0°♊39'32	4.34488 AU
	-8018 Jan 24 j 07:10	30°℞♉	
direct	-8018 Mar 21 j 14:46	25°♉47'13	
	-8018 May 15 j 15:35	0°♊	
evening set	-8018 Jul 26 j 12:22	13°♊51'23	
max. Earth dist.	-8018 Aug 06 j 15:18	16°♊20'55	6.32494 AU
conjunction	-8018 Aug 08 j 00:50	16°♊39'47	1°31'33
minimum elong	-8018 Aug 08 j 00:48	16°♊39'45	1°32'03
morning rise	-8018 Aug 20 j 11:11	19°♊27'16	
	-8018 Oct 10 j 14:07	0°♋	
retrograde	-8018 Dec 21 j 01:41	7°♋05'01	
opposition	-8017 Feb 20 j 04:06	2°♋13'02	2°18'43
min. Earth dist.	-8017 Feb 21 j 02:44	2°♋05'51	4.29782 AU
	-8017 Mar 10 j 07:16	30°℞♊	
direct	-8017 Apr 23 j 07:00	27°♊15'48	
	-8017 Jun 05 j 15:03	0°♋	
evening set	-8017 Aug 26 j 18:37	15°♋24'37	
max. Earth dist.	-8017 Sep 07 j 02:29	17°♋59'33	6.26056 AU
conjunction	-8017 Sep 08 j 04:31	18°♋14'26	1°30'18
minimum elong	-8017 Sep 08 j 04:34	18°♋14'27	1°30'49
morning rise	-8017 Sep 20 j 14:24	21°♋04'18	
	-8017 Nov 01 j 04:15	0°♌	
retrograde	-8016 Jan 24 j 00:31	9°♌21'12	
opposition	-8016 Mar 25 j 09:06	4°♌26'56	1°56'30
min. Earth dist.	-8016 Mar 25 j 22:17	4°♌22'44	4.22009 AU
	-8016 May 08 j 08:21	30°℞♋	
direct	-8016 May 25 j 12:37	29°♋32'21	
	-8016 Jun 11 j 15:28	0°♌	
	-8016 Sep 14 j 01:19	15°♌	
evening set	-8016 Sep 26 j 15:35	17°♌52'27	
conjunction	-8016 Oct 09 j 05:29	20°♌47'25	1°01'03
minimum elong	-8016 Oct 09 j 05:33	20°♌47'28	1°01'27
max. Earth dist.	-8016 Oct 08 j 21:16	20°♌42'39	6.17676 AU
morning rise	-8016 Oct 21 j 20:53	23°♌43'23	
	-8016 Nov 18 j 21:32	0°♍	
retrograde	-8015 Feb 27 j 09:17	12°♍46'50	
opposition	-8015 Apr 29 j 15:43	7°♍49'01	0°55'29
min. Earth dist.	-8015 Apr 29 j 14:35	7°♍49'23	4.13561 AU
direct	-8015 Jun 28 j 12:33	2°♍56'02	
evening set	-8015 Oct 29 j 20:45	21°♍32'01	
conjunction	-8015 Nov 11 j 18:25	24°♍33'47	0°10'53
minimum elong	-8015 Nov 11 j 18:27	24°♍33'48	0°10'59
behind sun begin	-8015 Nov 11 j 12:18	24°♍30'12	
behind sun end	-8015 Nov 12 j 00:35	24°♍37'24	
max. Earth dist.	-8015 Nov 12 j 05:41	24°♍40'24	6.09990 AU
morning rise	-8015 Nov 24 j 19:19	27°♍37'19	
	-8015 Dec 05 j 01:45	0°♎	
desc. node	-8014 Jan 28 j 07:28	11°♎07'53	
retrograde	-8014 Apr 04 j 17:08	17°♎21'15	
opposition	-8014 Jun 04 j 13:42	12°♎19'27	-0°26'56
min. Earth dist.	-8014 Jun 03 j 22:09	12°♎24'36	4.07274 AU
direct	-8014 Aug 02 j 07:04	7°♎26'08	
evening set	-8014 Dec 03 j 19:46	26°♎19'23	
conjunction	-8014 Dec 17 j 02:10	29°♎26'47	-0°44'14
minimum elong	-8014 Dec 17 j 02:06	29°♎26'44	0°44'26
max. Earth dist.	-8014 Dec 18 j 09:00	29°♎44'57	6.05667 AU
	-8014 Dec 19 j 10:30	0°♏	
morning rise	-8014 Dec 30 j 11:53	2°♏36'00	
	-8013 Feb 26 j 07:20	15°♏	
retrograde	-8013 May 11 j 06:31	22°♏38'19	
min. Earth dist.	-8013 Jul 09 j 11:10	17°♏41'35	4.05448 AU
opposition	-8013 Jul 10 j 10:16	17°♏33'47	-1°41'01
	-8013 Jul 30 j 10:17	15°℞♏	
direct	-8013 Sep 06 j 14:06	12°♏38'14	
	-8013 Oct 14 j 13:09	15°♏	
	-8012 Jan 01 j 19:29	0°♐	
evening set	-8012 Jan 09 j 06:24	1°♐43'32	
conjunction	-8012 Jan 22 j 19:12	4°♐53'17	-1°23'37
minimum elong	-8012 Jan 22 j 19:08	4°♐53'14	1°24'03
max. Earth dist.	-8012 Jan 24 j 08:31	5°♐15'06	6.06352 AU
morning rise	-8012 Feb 05 j 10:51	8°♐04'22	
retrograde	-8012 Jun 14 j 23:12	27°♐53'15	
opposition	-8012 Aug 13 j 12:51	22°♐48'14	-2°17'39
min. Earth dist.	-8012 Aug 12 j 13:22	22°♐56'16	4.08710 AU
direct	-8012 Oct 10 j 20:26	17°♐49'18	
	-8011 Jan 14 j 00:52	0°♑	
evening set	-8011 Feb 14 j 04:26	6°♑54'45	
conjunction	-8011 Feb 27 j 21:18	10°♑03'42	-1°32'13
minimum elong	-8011 Feb 27 j 21:19	10°♑03'43	1°32'45
max. Earth dist.	-8011 Mar 01 j 04:52	10°♑21'54	6.11813 AU
morning rise	-8011 Mar 13 j 15:01	13°♑12'58	
	-8011 Jun 10 j 17:33	0°♒	
retrograde	-8011 Jul 19 j 08:11	2°♒21'10	
	-8011 Aug 26 j 14:34	30°℞♑	
opposition	-8011 Sep 16 j 12:06	27°♑18'10	-2°04'33
min. Earth dist.	-8011 Sep 15 j 21:46	27°♑23'03	4.15807 AU
direct	-8011 Nov 14 j 17:15	22°♑16'04	
	-8010 Jan 27 j 22:56	0°♒	
evening set	-8010 Mar 22 j 10:31	11°♒09'05	
conjunction	-8010 Apr 05 j 03:57	14°♒14'53	-1°08'27
minimum elong	-8010 Apr 05 j 04:02	14°♒14'56	1°08'52
max. Earth dist.	-8010 Apr 05 j 17:52	14°♒22'45	6.19992 AU
	-8010 Apr 08 j 11:49	15°♒	

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

morning rise	-8010 Apr 18 j 20:12	17°♒19'55	
	-8010 Jun 20 j 11:52	0°♓	
retrograde	-8010 Aug 21 j 03:32	5°♓37'22	
opposition	-8010 Oct 19 j 08:13	0°♓37'57	-1°10'26
min. Earth dist.	-8010 Oct 19 j 05:35	0°♓38'50	4.24221 AU
	-8010 Oct 24 j 01:16	30°℞♒	
direct	-8010 Dec 18 j 17:48	25°♒34'02	
	-8009 Feb 12 j 07:13	0°♓	
evening set	-8009 Apr 26 j 06:59	14°♓08'25	
conjunction	-8009 May 09 j 20:10	17°♓09'15	-0°22'54
minimum elong	-8009 May 09 j 20:13	17°♓09'16	0°23'05
max. Earth dist.	-8009 May 09 j 12:29	17°♓04'57	6.28092 AU
morning rise	-8009 May 23 j 06:36	20°♓08'33	
	-8009 Jul 09 j 22:06	0°♈	
retrograde	-8009 Sep 21 j 23:44	7°♈44'23	
asc. node	-8009 Nov 01 j 10:23	5°♈12'45	
opposition	-8009 Nov 20 j 11:03	2°♈48'47	0°03'42
min. Earth dist.	-8009 Nov 20 j 22:11	2°♈45'07	4.31295 AU
	-8009 Dec 13 j 03:13	30°℞♓	
direct	-8008 Jan 21 j 01:47	27°♓44'51	
	-8008 Feb 29 j 08:18	0°♈	
evening set	-8008 May 28 j 14:08	16°♈01'59	
conjunction	-8008 Jun 10 j 18:57	18°♈57'05	0°28'39
minimum elong	-8008 Jun 10 j 18:54	18°♈57'04	0°28'46
max. Earth dist.	-8008 Jun 09 j 18:29	18°♈43'32	6.33625 AU
morning rise	-8008 Jun 23 j 20:12	21°♈50'24	
	-8008 Aug 01 j 19:03	0°♉	
retrograde	-8008 Oct 22 j 08:05	9°♉05'04	
opposition	-8008 Dec 21 j 09:27	4°♉12'17	1°15'00
min. Earth dist.	-8008 Dec 22 j 05:37	4°♉05'45	4.34979 AU
	-8007 Jan 29 j 04:05	30°℞♈	
direct	-8007 Feb 21 j 17:47	29°♈09'52	
	-8007 Mar 17 j 12:05	0°♉	
	-8007 Jun 19 j 06:06	15°♉	
evening set	-8007 Jun 29 j 15:22	17°♉16'16	
max. Earth dist.	-8007 Jul 11 j 01:07	19°♉48'04	6.35086 AU
conjunction	-8007 Jul 12 j 10:15	20°♉06'31	1°11'07
minimum elong	-8007 Jul 12 j 10:11	20°♉06'29	1°11'29
morning rise	-8007 Jul 25 j 02:02	22°♉55'17	
	-8007 Aug 27 j 09:19	0°♊	
retrograde	-8007 Nov 23 j 01:49	10°♊12'20	
opposition	-8006 Jan 22 j 17:26	5°♊20'50	2°04'20
min. Earth dist.	-8006 Jan 23 j 18:21	5°♊12'54	4.34239 AU
direct	-8006 Mar 26 j 06:35	0°♊21'01	
evening set	-8006 Jul 30 j 22:49	18°♊24'40	
max. Earth dist.	-8006 Aug 11 j 00:48	20°♊53'57	6.32059 AU
conjunction	-8006 Aug 12 j 10:25	21°♊12'52	1°33'03
minimum elong	-8006 Aug 12 j 10:24	21°♊12'51	1°33'35
morning rise	-8006 Aug 24 j 20:23	24°♊00'20	
	-8006 Sep 21 j 10:47	0°♋	
retrograde	-8006 Dec 25 j 18:16	11°♋41'40	
opposition	-8005 Feb 24 j 22:20	6°♋49'26	2°18'04
min. Earth dist.	-8005 Feb 25 j 19:36	6°♋42'41	4.29190 AU
direct	-8005 Apr 27 j 22:52	1°♋52'35	
evening set	-8005 Aug 31 j 04:44	20°♋01'19	
conjunction	-8005 Sep 12 j 14:55	22°♋51'28	1°27'46
minimum elong	-8005 Sep 12 j 14:58	22°♋51'30	1°28'17
max. Earth dist.	-8005 Sep 11 j 16:18	22°♋38'31	6.25359 AU
morning rise	-8005 Sep 25 j 00:59	25°♋41'47	
	-8005 Oct 14 j 07:22	0°♌	
retrograde	-8004 Jan 28 j 20:41	14°♌03'27	
opposition	-8004 Mar 30 j 05:50	9°♌08'49	1°49'59
min. Earth dist.	-8004 Mar 30 j 17:27	9°♌05'06	4.21235 AU
direct	-8004 May 30 j 05:45	4°♌14'34	
	-8004 Aug 27 j 21:10	15°♌	
evening set	-8004 Oct 01 j 04:00	22°♌35'09	
conjunction	-8004 Oct 13 j 18:33	25°♌30'47	0°55'02
minimum elong	-8004 Oct 13 j 18:37	25°♌30'50	0°55'24
max. Earth dist.	-8004 Oct 13 j 11:24	25°♌26'38	6.16888 AU
morning rise	-8004 Oct 26 j 11:09	28°♌27'36	
	-8004 Nov 02 j 03:51	0°♍	
retrograde	-8003 Mar 04 j 07:24	17°♍36'04	
opposition	-8003 May 04 j 13:51	12°♍37'40	0°44'47
min. Earth dist.	-8003 May 04 j 10:37	12°♍38'43	4.12800 AU
direct	-8003 Jul 03 j 06:40	7°♍44'43	
evening set	-8003 Nov 03 j 13:27	26°♍22'14	
conjunction	-8003 Nov 16 j 12:27	29°♍24'49	0°03'10
minimum elong	-8003 Nov 16 j 12:27	29°♍24'49	0°03'14
behind sun begin	-8003 Nov 16 j 04:22	29°♍20'05	
behind sun end	-8003 Nov 16 j 20:32	29°♍29'33	
max. Earth dist.	-8003 Nov 17 j 03:11	29°♍33'28	6.09339 AU
	-8003 Nov 19 j 00:14	0°♎	
morning rise	-8003 Nov 29 j 14:27	2°♎29'10	
desc. node	-8003 Dec 08 j 17:07	4°♎35'56	
retrograde	-8002 Apr 09 j 18:18	22°♎16'40	
opposition	-8002 Jun 09 j 12:05	17°♎14'29	-0°38'19
min. Earth dist.	-8002 Jun 08 j 20:13	17°♎19'45	4.06800 AU
direct	-8002 Aug 07 j 03:27	12°♎20'58	
	-8002 Dec 03 j 07:10	0°♏	
evening set	-8002 Dec 08 j 17:52	1°♏16'19	
conjunction	-8002 Dec 22 j 01:08	4°♏24'14	-0°50'59
minimum elong	-8002 Dec 22 j 01:03	4°♏24'11	0°51'15
max. Earth dist.	-8002 Dec 23 j 07:40	4°♏42'14	6.05388 AU
morning rise	-8001 Jan 04 j 12:01	7°♏34'01	
	-8001 Feb 06 j 10:45	15°♏	
retrograde	-8001 May 16 j 05:04	27°♏37'01	
min. Earth dist.	-8001 Jul 14 j 07:17	22°♏40'25	4.05422 AU
opposition	-8001 Jul 15 j 07:18	22°♏32'17	-1°48'44
direct	-8001 Sep 11 j 09:48	17°♏36'17	
	-8001 Dec 15 j 13:20	0°♐	
evening set	-8000 Jan 14 j 08:12	6°♐43'20	
conjunction	-8000 Jan 27 j 21:52	9°♐53'18	-1°26'46
minimum elong	-8000 Jan 27 j 21:48	9°♐53'16	1°27'14
max. Earth dist.	-8000 Jan 29 j 11:31	10°♐15'18	6.06576 AU
morning rise	-8000 Feb 10 j 13:55	13°♐04'26	
	-8000 May 08 j 01:48	0°♑	
retrograde	-8000 Jun 19 j 20:50	2°♑50'27	
	-8000 Aug 01 j 08:02	30°℞♐	
min. Earth dist.	-8000 Aug 17 j 09:58	27°♐53'00	4.09171 AU
opposition	-8000 Aug 18 j 07:38	27°♐45'35	-2°18'46
direct	-8000 Oct 15 j 17:36	22°♐46'12	
	-8000 Dec 25 j 00:50	0°♑	
evening set	-7999 Feb 19 j 06:58	11°♑51'56	
conjunction	-7999 Mar 05 j 00:13	15°♑00'47	-1°30'39
minimum elong	-7999 Mar 05 j 00:15	15°♑00'48	1°31'10
max. Earth dist.	-7999 Mar 06 j 06:13	15°♑18'01	6.12478 AU
morning rise	-7999 Mar 18 j 18:05	18°♑09'47	
	-7999 May 14 j 04:53	0°♒	
retrograde	-7999 Jul 23 j 23:58	7°♒12'24	
opposition	-7999 Sep 21 j 03:54	2°♒09'49	-1°58'58
min. Earth dist.	-7999 Sep 20 j 14:03	2°♒14'32	4.16622 AU
	-7999 Oct 07 j 14:34	30°℞♑	
direct	-7999 Nov 19 j 11:21	27°♑07'23	
	-7998 Jan 01 j 18:43	0°♒	

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

	-7998 Mar 23 j 00:27	15°♒	
evening set	-7998 Mar 27 j 10:24	15°♒59'10	
conjunction	-7998 Apr 10 j 03:32	19°♒04'29	-1°02'57
minimum elong	-7998 Apr 10 j 03:37	19°♒04'32	1°03'21
max. Earth dist.	-7998 Apr 10 j 14:09	19°♒10'29	6.20914 AU
morning rise	-7998 Apr 23 j 19:21	22°♒08'57	
	-7998 May 30 j 09:36	0°♓	
retrograde	-7998 Aug 25 j 17:57	10°♓20'32	
opposition	-7998 Oct 23 j 22:04	5°♓21'37	-1°00'35
min. Earth dist.	-7998 Oct 23 j 21:54	5°♓21'40	4.25149 AU
direct	-7998 Dec 23 j 13:00	0°♓17'33	
evening set	-7997 May 01 j 02:04	18°♓49'41	
conjunction	-7997 May 14 j 14:27	21°♓49'47	-0°15'35
minimum elong	-7997 May 14 j 14:28	21°♓49'48	0°15'43
behind sun begin	-7997 May 14 j 13:26	21°♓49'14	
behind sun end	-7997 May 14 j 15:30	21°♓50'22	
max. Earth dist.	-7997 May 14 j 05:26	21°♓44'47	6.28963 AU
morning rise	-7997 May 27 j 23:40	24°♓48'15	
	-7997 Jun 21 j 01:12	0°♈	
asc. node	-7997 Sep 10 j 23:10	11°♈56'27	
retrograde	-7997 Sep 26 j 09:26	12°♈19'50	
opposition	-7997 Nov 24 j 23:30	7°♈24'37	0°14'29
min. Earth dist.	-7997 Nov 25 j 11:02	7°♈20'50	4.32040 AU
direct	-7996 Jan 25 j 16:38	2°♈20'45	
evening set	-7996 Jun 02 j 04:40	20°♈35'42	
max. Earth dist.	-7996 Jun 14 j 05:43	23°♈15'24	6.34169 AU
conjunction	-7996 Jun 15 j 07:58	23°♈29'57	0°35'32
minimum elong	-7996 Jun 15 j 07:55	23°♈29'55	0°35'41
morning rise	-7996 Jun 28 j 07:51	26°♈22'27	
	-7996 Jul 15 j 00:46	0°♉	
retrograde	-7996 Oct 26 j 19:28	13°♉35'31	
opposition	-7996 Dec 25 j 22:08	8°♉43'00	1°23'40
min. Earth dist.	-7996 Dec 26 j 20:02	8°♉35'56	4.35270 AU
direct	-7995 Feb 26 j 09:15	3°♉40'49	
	-7995 Jun 02 j 06:15	15°♉	
evening set	-7995 Jul 04 j 02:02	21°♉45'47	
max. Earth dist.	-7995 Jul 15 j 09:39	24°♉16'32	6.35053 AU
conjunction	-7995 Jul 16 j 19:42	24°♉35'29	1°15'40
minimum elong	-7995 Jul 16 j 19:37	24°♉35'27	1°16'03
morning rise	-7995 Jul 29 j 10:23	27°♉23'47	
	-7995 Aug 10 j 07:17	0°♊	
retrograde	-7995 Nov 27 j 13:41	14°♊42'28	
opposition	-7994 Jan 27 j 07:55	9°♊50'54	2°08'37
min. Earth dist.	-7994 Jan 28 j 08:15	9°♊43'09	4.33892 AU
direct	-7994 Mar 30 j 19:36	4°♊51'25	
evening set	-7994 Aug 04 j 07:47	22°♊54'55	
max. Earth dist.	-7994 Aug 15 j 10:52	25°♊25'04	6.31407 AU
conjunction	-7994 Aug 16 j 18:49	25°♊43'06	1°34'01
minimum elong	-7994 Aug 16 j 18:48	25°♊43'05	1°34'33
morning rise	-7994 Aug 29 j 04:17	28°♊30'38	
	-7994 Sep 04 j 20:30	0°♋	
retrograde	-7994 Dec 30 j 11:15	16°♋16'27	
opposition	-7993 Mar 01 j 16:05	11°♋24'01	2°16'40
min. Earth dist.	-7993 Mar 02 j 13:11	11°♋17'20	4.28259 AU
direct	-7993 May 02 j 14:27	6°♋27'33	
evening set	-7993 Sep 04 j 14:55	24°♋37'25	
max. Earth dist.	-7993 Sep 16 j 02:54	27°♋15'19	6.24222 AU
conjunction	-7993 Sep 17 j 01:16	27°♋28'09	1°24'44
minimum elong	-7993 Sep 17 j 01:19	27°♋28'11	1°25'14
	-7993 Sep 28 j 02:22	0°♌	
morning rise	-7993 Sep 29 j 12:04	0°♌19'13	
	-7993 Dec 13 j 14:52	15°♌	
retrograde	-7992 Feb 02 j 17:29	18°♌47'21	
	-7992 Mar 26 j 05:04	15°℞♌	
opposition	-7992 Apr 04 j 03:08	13°♌52'12	1°42'47
min. Earth dist.	-7992 Apr 04 j 12:29	13°♌49'12	4.19955 AU
direct	-7992 Jun 03 j 22:16	8°♌58'11	
	-7992 Aug 07 j 13:01	15°♌	
evening set	-7992 Oct 05 j 18:06	27°♌21'15	
	-7992 Oct 17 j 03:06	0°♍	
conjunction	-7992 Oct 18 j 09:51	0°♍17'56	0°48'35
minimum elong	-7992 Oct 18 j 09:55	0°♍17'58	0°48'54
max. Earth dist.	-7992 Oct 18 j 06:30	0°♍15'58	6.15601 AU
morning rise	-7992 Oct 31 j 03:33	3°♍15'50	
retrograde	-7991 Mar 09 j 10:22	22°♍31'04	
opposition	-7991 May 09 j 14:35	17°♍32'11	0°33'32
min. Earth dist.	-7991 May 09 j 10:17	17°♍33'35	4.11594 AU
direct	-7991 Jul 08 j 03:51	12°♍39'18	
desc. node	-7991 Oct 17 j 17:00	26°♍21'27	
	-7991 Nov 02 j 16:35	0°♎	
evening set	-7991 Nov 08 j 09:53	1°♎20'03	
conjunction	-7991 Nov 21 j 10:01	4°♎23'38	-0°04'56
minimum elong	-7991 Nov 21 j 10:00	4°♎23'37	0°04'54
behind sun begin	-7991 Nov 21 j 02:03	4°♎18'58	
behind sun end	-7991 Nov 21 j 17:56	4°♎28'17	
max. Earth dist.	-7991 Nov 22 j 01:59	4°♎33'02	6.08322 AU
morning rise	-7991 Dec 04 j 13:35	7°♎29'04	
retrograde	-7990 Apr 14 j 21:54	27°♎21'23	
opposition	-7990 Jun 14 j 14:09	22°♎18'45	-0°49'48
min. Earth dist.	-7990 Jun 13 j 19:49	22°♎24'52	4.06088 AU
direct	-7990 Aug 12 j 01:41	17°♎25'02	
	-7990 Nov 15 j 19:45	0°♏	
evening set	-7990 Dec 13 j 20:48	6°♏23'29	
conjunction	-7990 Dec 27 j 05:16	9°♏32'03	-0°57'36
minimum elong	-7990 Dec 27 j 05:11	9°♏32'00	0°57'54
max. Earth dist.	-7990 Dec 28 j 14:33	9°♏51'40	6.05052 AU
morning rise	-7989 Jan 09 j 17:00	12°♏42'21	
	-7989 Jan 19 j 14:17	15°♏	
	-7989 Apr 08 j 22:42	0°♐	
retrograde	-7989 May 21 j 09:49	2°♐45'48	
	-7989 Jul 02 j 14:04	30°℞♏	
min. Earth dist.	-7989 Jul 19 j 08:43	27°♏48'59	4.05532 AU
opposition	-7989 Jul 20 j 08:24	27°♏40'57	-1°55'55
direct	-7989 Sep 16 j 11:10	22°♏44'36	
	-7989 Nov 25 j 04:02	0°♐	
evening set	-7988 Jan 19 j 14:48	11°♐52'49	
conjunction	-7988 Feb 02 j 05:08	15°♐02'50	-1°29'24
minimum elong	-7988 Feb 02 j 05:06	15°♐02'48	1°29'54
max. Earth dist.	-7988 Feb 03 j 19:31	15°♐25'13	6.07138 AU
morning rise	-7988 Feb 15 j 21:45	18°♐13'54	
	-7988 Apr 10 j 22:52	0°♑	
retrograde	-7988 Jun 24 j 19:12	7°♑54'57	
min. Earth dist.	-7988 Aug 22 j 06:58	2°♑57'57	4.10179 AU
opposition	-7988 Aug 23 j 05:13	2°♑50'20	-2°18'52
	-7988 Sep 14 j 08:57	30°℞♐	
direct	-7988 Oct 20 j 16:24	27°♐50'34	
	-7988 Nov 26 j 07:39	0°♑	
evening set	-7987 Feb 24 j 11:59	16°♑54'19	
conjunction	-7987 Mar 10 j 05:20	20°♑02'38	-1°28'26
minimum elong	-7987 Mar 10 j 05:23	20°♑02'40	1°28'57
max. Earth dist.	-7987 Mar 11 j 09:08	20°♑18'33	6.13863 AU
morning rise	-7987 Mar 23 j 23:11	23°♑11'00	
	-7987 Apr 23 j 23:12	0°♒	

Attention, astronomical year style is used: The year -7987 in astronomical counting style is the year 7988 BCE in historical counting style.

retrograde	-7987 Jul 28 j 17:15	12°♒05'13	
opposition	-7987 Sep 25 j 20:46	7°♒03'04	-1°52'33
min. Earth dist.	-7987 Sep 25 j 08:56	7°♒07'06	4.18237 AU
direct	-7987 Nov 24 j 10:05	2°♒00'20	
	-7986 Mar 05 j 18:40	15°♒	
evening set	-7986 Apr 01 j 09:28	20°♒47'41	
conjunction	-7986 Apr 15 j 02:16	23°♒52'08	-0°57'08
minimum elong	-7986 Apr 15 j 02:21	23°♒52'10	0°57'29
max. Earth dist.	-7986 Apr 15 j 11:50	23°♒57'30	6.22650 AU
morning rise	-7986 Apr 28 j 17:12	26°♒55'31	
	-7986 May 12 j 15:40	0°♓	
retrograde	-7986 Aug 30 j 03:44	14°♓58'33	
opposition	-7986 Oct 28 j 09:54	10°♓00'12	-0°50'33
min. Earth dist.	-7986 Oct 28 j 10:37	9°♓59'57	4.26844 AU
direct	-7986 Dec 28 j 04:44	4°♓56'05	
evening set	-7985 May 05 j 18:03	23°♓23'25	
conjunction	-7985 May 19 j 05:07	26°♓22'24	-0°08'25
minimum elong	-7985 May 19 j 05:08	26°♓22'24	0°08'31
behind sun begin	-7985 May 18 j 21:59	26°♓18'27	
behind sun end	-7985 May 19 j 12:16	26°♓26'21	
max. Earth dist.	-7985 May 18 j 16:00	26°♓15'08	6.30480 AU
morning rise	-7985 Jun 01 j 13:12	29°♓19'45	
	-7985 Jun 04 j 14:20	0°♈	
asc. node	-7985 Jul 22 j 16:27	9°♈46'17	
retrograde	-7985 Sep 30 j 17:15	16°♈45'31	
opposition	-7985 Nov 29 j 08:23	11°♈50'46	0°24'45
min. Earth dist.	-7985 Nov 29 j 22:45	11°♈46'03	4.33258 AU
direct	-7984 Jan 30 j 06:15	6°♈46'59	
evening set	-7984 Jun 06 j 14:01	24°♈58'23	
conjunction	-7984 Jun 19 j 16:04	27°♈51'45	0°41'54
minimum elong	-7984 Jun 19 j 16:00	27°♈51'43	0°42'05
max. Earth dist.	-7984 Jun 18 j 12:23	27°♈36'26	6.34970 AU
	-7984 Jun 29 j 07:49	0°♉	
morning rise	-7984 Jul 02 j 14:26	0°♉43'20	
	-7984 Sep 17 j 05:33	15°♉	
retrograde	-7984 Oct 31 j 00:31	17°♉54'41	
	-7984 Dec 14 j 13:43	15°℞♉	
opposition	-7984 Dec 30 j 06:18	13°♉02'24	1°31'28
min. Earth dist.	-7984 Dec 31 j 04:41	12°♉55'11	4.35617 AU
direct	-7983 Mar 02 j 17:33	8°♉00'30	
	-7983 May 14 j 13:28	15°♉	
evening set	-7983 Jul 08 j 07:42	26°♉04'10	
max. Earth dist.	-7983 Jul 19 j 12:26	28°♉33'30	6.34895 AU
conjunction	-7983 Jul 21 j 00:06	28°♉53'24	1°19'34
minimum elong	-7983 Jul 21 j 00:02	28°♉53'22	1°20'00
	-7983 Jul 25 j 23:31	0°♊	
morning rise	-7983 Aug 02 j 13:49	1°♊41'21	
retrograde	-7983 Dec 01 j 23:39	19°♊02'34	
opposition	-7982 Jan 31 j 18:19	14°♊11'03	2°12'01
min. Earth dist.	-7982 Feb 01 j 20:16	14°♊02'48	4.33240 AU
direct	-7982 Apr 04 j 05:46	9°♊11'55	
evening set	-7982 Aug 08 j 12:53	27°♊16'34	
conjunction	-7982 Aug 20 j 23:33	0°♋05'00	1°34'25
minimum elong	-7982 Aug 20 j 23:33	0°♋05'00	1°34'56
max. Earth dist.	-7982 Aug 19 j 14:48	29°♊46'29	6.30295 AU
	-7982 Aug 20 j 14:42	0°♋	
morning rise	-7982 Sep 02 j 08:55	2°♋52'56	
retrograde	-7981 Jan 04 j 00:56	20°♋45'05	
opposition	-7981 Mar 06 j 06:48	15°♋52'21	2°14'31
min. Earth dist.	-7981 Mar 07 j 02:25	15°♋46'07	4.26770 AU
direct	-7981 May 07 j 00:32	10°♋56'13	
evening set	-7981 Sep 08 j 22:57	29°♋09'26	

	-7981 Sep 12 j 15:20	0°♌	
conjunction	-7981 Sep 21 j 09:55	2°♌01'06	1°21'13
minimum elong	-7981 Sep 21 j 09:58	2°♌01'08	1°21'43
max. Earth dist.	-7981 Sep 20 j 14:02	1°♌49'39	6.22488 AU
morning rise	-7981 Oct 03 j 21:22	4°♌53'13	
	-7981 Nov 20 j 05:18	15°♌	
retrograde	-7980 Feb 07 j 15:52	23°♌30'06	
opposition	-7980 Apr 08 j 23:49	18°♌34'30	1°35'00
min. Earth dist.	-7980 Apr 09 j 08:25	18°♌31'45	4.18088 AU
	-7980 May 10 j 08:44	15°℞♌	
direct	-7980 Jun 08 j 14:59	13°♌40'44	
	-7980 Jul 07 j 14:38	15°♌	
	-7980 Oct 01 j 01:41	0°♍	
evening set	-7980 Oct 10 j 08:27	2°♍08'26	
conjunction	-7980 Oct 23 j 01:17	5°♍06'24	0°41'49
minimum elong	-7980 Oct 23 j 01:21	5°♍06'26	0°42'05
max. Earth dist.	-7980 Oct 22 j 23:42	5°♍05'28	6.13778 AU
morning rise	-7980 Nov 04 j 20:33	8°♍05'45	
retrograde	-7979 Mar 14 j 12:39	27°♍29'35	
opposition	-7979 May 14 j 16:00	22°♍30'06	0°21'59
min. Earth dist.	-7979 May 14 j 08:18	22°♍32'37	4.09985 AU
direct	-7979 Jul 12 j 23:36	17°♍37'13	
desc. node	-7979 Aug 26 j 18:53	20°♍47'06	
	-7979 Oct 16 j 08:14	0°♎	
evening set	-7979 Nov 13 j 08:21	6°♎22'41	
conjunction	-7979 Nov 26 j 09:54	9°♎27'25	-0°12'55
minimum elong	-7979 Nov 26 j 09:53	9°♎27'24	0°12'57
behind sun begin	-7979 Nov 26 j 04:51	9°♎24'27	
behind sun end	-7979 Nov 26 j 14:54	9°♎30'21	
max. Earth dist.	-7979 Nov 27 j 06:14	9°♎39'25	6.07079 AU
morning rise	-7979 Dec 09 j 14:45	12°♎34'00	
	-7978 Mar 10 j 10:03	0°♏	
retrograde	-7978 Apr 20 j 05:07	2°♏31'24	
	-7978 May 30 j 20:47	30°℞♎	
opposition	-7978 Jun 19 j 17:48	27°♎28'15	-1°01'03
min. Earth dist.	-7978 Jun 18 j 22:22	27°♎34'45	4.05339 AU
direct	-7978 Aug 17 j 03:29	22°♎34'13	
	-7978 Oct 26 j 14:13	0°♏	
evening set	-7978 Dec 19 j 02:03	11°♏35'36	
conjunction	-7977 Jan 01 j 11:32	14°♏44'40	-1°03'51
minimum elong	-7977 Jan 01 j 11:27	14°♏44'37	1°04'10
	-7977 Jan 02 j 13:33	15°♏	
max. Earth dist.	-7977 Jan 02 j 23:22	15°♏05'47	6.04834 AU
morning rise	-7977 Jan 15 j 00:17	17°♏55'27	
	-7977 Mar 12 j 02:07	0°♐	
retrograde	-7977 May 26 j 13:04	7°♐57'53	
min. Earth dist.	-7977 Jul 24 j 09:11	3°♐01'22	4.05883 AU
opposition	-7977 Jul 25 j 10:22	2°♐52'48	-2°02'14
	-7977 Aug 17 j 02:50	30°℞♏	
direct	-7977 Sep 21 j 12:19	27°♏55'58	
	-7977 Oct 26 j 23:50	0°♐	
evening set	-7976 Jan 24 j 22:22	17°♐04'03	
conjunction	-7976 Feb 07 j 13:12	20°♐13'53	-1°31'21
minimum elong	-7976 Feb 07 j 13:10	20°♐13'52	1°31'52
max. Earth dist.	-7976 Feb 09 j 02:38	20°♐35'40	6.07962 AU
morning rise	-7976 Feb 21 j 06:11	23°♐24'40	
	-7976 Mar 21 j 16:35	0°♑	
retrograde	-7976 Jun 29 j 17:46	12°♑59'26	
min. Earth dist.	-7976 Aug 27 j 05:52	8°♑02'05	4.11349 AU
opposition	-7976 Aug 28 j 02:46	7°♑54'56	-2°17'57
direct	-7976 Oct 25 j 18:12	2°♑54'36	
evening set	-7975 Mar 01 j 16:47	21°♑55'41	

Attention, astronomical year style is used: The year -7975 in astronomical counting style is the year 7976 BCE in historical counting style.

conjunction	-7975 Mar 15 j 10:24	25°♑03'28	-1°25'36
minimum elong	-7975 Mar 15 j 10:28	25°♑03'30	1°26'07
max. Earth dist.	-7975 Mar 16 j 13:28	25°♑18'55	6.15266 AU
morning rise	-7975 Mar 29 j 03:55	28°♑11'04	
	-7975 Apr 06 j 05:27	0°♒	
	-7975 Jun 28 j 10:39	15°♒	
retrograde	-7975 Aug 02 j 09:53	16°♒56'52	
	-7975 Sep 06 j 01:48	15°℞♒	
opposition	-7975 Sep 30 j 13:13	11°♒55'14	-1°45'24
min. Earth dist.	-7975 Sep 30 j 02:41	11°♒58'49	4.19711 AU
direct	-7975 Nov 29 j 06:18	6°♒52'12	
	-7974 Feb 14 j 08:21	15°♒	
evening set	-7974 Apr 06 j 08:48	25°♒35'54	
conjunction	-7974 Apr 20 j 00:54	28°♒39'31	-0°50'54
minimum elong	-7974 Apr 20 j 00:59	28°♒39'33	0°51'14
max. Earth dist.	-7974 Apr 20 j 05:44	28°♒42'13	6.24073 AU
	-7974 Apr 26 j 00:30	0°♓	
morning rise	-7974 May 03 j 15:14	1°♓42'02	
retrograde	-7974 Sep 03 j 15:59	19°♓38'03	
opposition	-7974 Nov 01 j 22:59	14°♓40'13	-0°40'10
min. Earth dist.	-7974 Nov 02 j 02:22	14°♓39'05	4.28088 AU
direct	-7973 Jan 01 j 22:47	9°♓36'01	
evening set	-7973 May 10 j 11:10	28°♓00'15	
	-7973 May 19 j 11:59	0°♈	
conjunction	-7973 May 23 j 21:14	0°♈58'22	-0°01'02
minimum elong	-7973 May 23 j 21:16	0°♈58'23	0°01'05
behind sun begin	-7973 May 23 j 13:04	0°♈53'52	
behind sun end	-7973 May 24 j 05:28	1°♈02'55	
max. Earth dist.	-7973 May 23 j 06:42	0°♈50'19	6.31462 AU
asc. node	-7973 May 31 j 15:11	2°♈41'29	
morning rise	-7973 Jun 06 j 03:55	3°♈54'48	
retrograde	-7973 Oct 05 j 02:29	21°♈16'49	
opposition	-7973 Dec 03 j 20:00	16°♈22'32	0°35'08
min. Earth dist.	-7973 Dec 04 j 11:19	16°♈17'31	4.33919 AU
direct	-7972 Feb 03 j 19:41	11°♈18'59	
evening set	-7972 Jun 11 j 02:50	29°♈28'43	
	-7972 Jun 13 j 11:43	0°♉	
max. Earth dist.	-7972 Jun 22 j 20:22	2°♉04'13	6.35246 AU
conjunction	-7972 Jun 24 j 03:18	2°♉21'20	0°48'15
minimum elong	-7972 Jun 24 j 03:14	2°♉21'18	0°48'28
morning rise	-7972 Jul 07 j 00:28	5°♉12'17	
	-7972 Aug 23 j 18:34	15°♉	
retrograde	-7972 Nov 04 j 12:37	22°♉23'41	
opposition	-7971 Jan 03 j 19:06	17°♉31'40	1°39'06
min. Earth dist.	-7971 Jan 04 j 19:26	17°♉23'50	4.35513 AU
	-7971 Jan 24 j 10:47	15°℞♉	
direct	-7971 Mar 07 j 08:01	12°♉30'05	
	-7971 Apr 18 j 03:27	15°♉	
	-7971 Jul 10 j 04:46	0°♊	
evening set	-7971 Jul 12 j 17:53	0°♊33'47	
max. Earth dist.	-7971 Jul 23 j 21:54	3°♊02'57	6.34403 AU
conjunction	-7971 Jul 25 j 09:21	3°♊22'45	1°23'13
minimum elong	-7971 Jul 25 j 09:17	3°♊22'43	1°23'40
morning rise	-7971 Aug 06 j 22:03	6°♊10'30	
retrograde	-7971 Dec 06 j 13:09	23°♊35'20	
opposition	-7970 Feb 05 j 10:18	18°♊43'48	2°14'52
min. Earth dist.	-7970 Feb 06 j 11:05	18°♊35'55	4.32421 AU
direct	-7970 Apr 08 j 18:46	13°♊45'09	
	-7970 Aug 04 j 16:02	0°♋	
evening set	-7970 Aug 12 j 23:09	1°♋51'12	
max. Earth dist.	-7970 Aug 24 j 01:52	4°♋22'01	6.29214 AU
conjunction	-7970 Aug 25 j 09:25	4°♋39'55	1°34'17
minimum elong	-7970 Aug 25 j 09:25	4°♋39'55	1°34'48
morning rise	-7970 Sep 06 j 18:43	7°♋28'15	
retrograde	-7969 Jan 08 j 21:58	25°♋26'39	
opposition	-7969 Mar 11 j 03:28	20°♋33'41	2°11'24
min. Earth dist.	-7969 Mar 11 j 22:41	20°♋27'35	4.25498 AU
direct	-7969 May 11 j 18:48	15°♋38'01	
	-7969 Aug 27 j 05:25	0°♌	
evening set	-7969 Sep 13 j 11:54	3°♌53'30	
conjunction	-7969 Sep 25 j 23:26	6°♌45'59	1°17'03
minimum elong	-7969 Sep 25 j 23:30	6°♌46'01	1°17'31
max. Earth dist.	-7969 Sep 25 j 05:45	6°♌35'46	6.21165 AU
morning rise	-7969 Oct 08 j 11:47	9°♌39'03	
	-7969 Nov 01 j 09:05	15°♌	
retrograde	-7968 Feb 12 j 15:31	28°♌22'57	
opposition	-7968 Apr 14 j 00:22	23°♌26'54	1°26'16
min. Earth dist.	-7968 Apr 14 j 05:36	23°♌25'14	4.16834 AU
direct	-7968 Jun 13 j 10:11	18°♌33'28	
	-7968 Sep 13 j 14:48	0°♍	
evening set	-7968 Oct 15 j 02:16	7°♍03'35	
conjunction	-7968 Oct 27 j 20:16	10°♍02'32	0°34'36
minimum elong	-7968 Oct 27 j 20:19	10°♍02'34	0°34'50
max. Earth dist.	-7968 Oct 27 j 22:45	10°♍03'59	6.12733 AU
morning rise	-7968 Nov 09 j 16:46	13°♍02'55	
	-7967 Feb 06 j 13:18	0°♎	
retrograde	-7967 Mar 19 j 18:14	2°♎32'14	
	-7967 Apr 30 j 01:44	30°℞♍	
opposition	-7967 May 19 j 18:55	27°♍32'12	0°10'07
min. Earth dist.	-7967 May 19 j 09:39	27°♍35'15	4.09236 AU
desc. node	-7967 Jul 06 j 07:43	22°♍52'54	
direct	-7967 Jul 17 j 23:49	22°♍39'18	
	-7967 Sep 26 j 10:52	0°♎	
evening set	-7967 Nov 18 j 07:32	11°♎26'31	
conjunction	-7967 Dec 01 j 10:15	14°♎31'55	-0°20'49
minimum elong	-7967 Dec 01 j 10:13	14°♎31'54	0°20'54
max. Earth dist.	-7967 Dec 02 j 09:39	14°♎45'43	6.06695 AU
morning rise	-7967 Dec 14 j 16:24	17°♎39'12	
	-7966 Feb 10 j 05:06	0°♏	
retrograde	-7966 Apr 25 j 08:17	7°♏38'08	
opposition	-7966 Jun 24 j 19:36	2°♏34'36	-1°11'39
min. Earth dist.	-7966 Jun 23 j 22:09	2°♏41'46	4.05386 AU
	-7966 Jul 15 j 02:46	30°℞♎	
direct	-7966 Aug 22 j 02:12	27°♎40'18	
	-7966 Sep 28 j 19:41	0°♏	
	-7966 Dec 16 j 21:45	15°♏	
evening set	-7966 Dec 24 j 05:19	16°♏42'07	
conjunction	-7965 Jan 06 j 15:32	19°♏51'18	-1°09'28
minimum elong	-7965 Jan 06 j 15:27	19°♏51'15	1°09'49
max. Earth dist.	-7965 Jan 08 j 03:36	20°♏12'31	6.05267 AU
morning rise	-7965 Jan 20 j 05:02	23°♏02'07	
	-7965 Feb 20 j 01:23	0°♐	
retrograde	-7965 May 31 j 12:20	13°♐01'20	
min. Earth dist.	-7965 Jul 29 j 07:35	8°♐04'35	4.06659 AU
opposition	-7965 Jul 30 j 08:20	7°♐56'09	-2°07'23
direct	-7965 Sep 26 j 12:15	2°♐58'47	
evening set	-7964 Jan 30 j 01:56	22°♐05'42	
conjunction	-7964 Feb 12 j 17:25	25°♐15'18	-1°32'34
minimum elong	-7964 Feb 12 j 17:24	25°♐15'17	1°33'05
max. Earth dist.	-7964 Feb 14 j 06:59	25°♐37'05	6.09003 AU
morning rise	-7964 Feb 26 j 10:30	28°♐25'39	
	-7964 Mar 04 j 07:24	0°♑	
retrograde	-7964 Jul 04 j 12:49	17°♑53'41	
opposition	-7964 Sep 01 j 19:55	12°♑49'31	-2°16'03

Attention, astronomical year style is used: The year -7964 in astronomical counting style is the year 7965 BCE in historical counting style.

min. Earth dist.	-7964 Sep 01 j 00:24	12°♑56'11	4.12545 AU
direct	-7964 Oct 30 j 14:13	7°♑48'45	
evening set	-7963 Mar 06 j 17:18	26°♑47'26	
conjunction	-7963 Mar 20 j 10:50	29°♑54'42	-1°22'15
minimum elong	-7963 Mar 20 j 10:55	29°♑54'45	1°22'44
	-7963 Mar 20 j 20:08	0°♒	
max. Earth dist.	-7963 Mar 21 j 09:21	0°♒07'31	6.16502 AU
morning rise	-7963 Apr 03 j 04:20	3°♒01'43	
	-7963 May 31 j 02:22	15°♒	
retrograde	-7963 Aug 06 j 22:31	21°♒40'22	
opposition	-7963 Oct 05 j 02:22	16°♒39'11	-1°37'49
min. Earth dist.	-7963 Oct 04 j 18:00	16°♒42'02	4.20863 AU
	-7963 Oct 17 j 12:52	15°℞♒	
direct	-7963 Dec 03 j 23:39	11°♒35'50	
	-7962 Jan 20 j 17:35	15°♒	
	-7962 Apr 09 j 21:33	0°♓	
evening set	-7962 Apr 11 j 04:33	0°♓17'12	
conjunction	-7962 Apr 24 j 20:16	3°♓20'13	-0°44'32
minimum elong	-7962 Apr 24 j 20:20	3°♓20'15	0°44'49
max. Earth dist.	-7962 Apr 24 j 22:47	3°♓21'37	6.25078 AU
morning rise	-7962 May 08 j 09:39	6°♓21'59	
retrograde	-7962 Sep 08 j 02:26	24°♓12'49	
opposition	-7962 Nov 06 j 10:00	19°♓15'33	-0°29'47
min. Earth dist.	-7962 Nov 06 j 15:17	19°♓13'48	4.28859 AU
direct	-7961 Jan 06 j 12:50	14°♓11'22	
asc. node	-7961 Apr 10 j 07:33	25°♓13'01	
	-7961 May 03 j 07:49	0°♈	
evening set	-7961 May 15 j 02:46	2°♈34'08	
conjunction	-7961 May 28 j 11:38	5°♈31'37	0°06'18
minimum elong	-7961 May 28 j 11:37	5°♈31'36	0°06'17
behind sun begin	-7961 May 28 j 03:54	5°♈27'21	
behind sun end	-7961 May 28 j 19:20	5°♈35'51	
max. Earth dist.	-7961 May 27 j 16:56	5°♈21'15	6.31941 AU
morning rise	-7961 Jun 10 j 17:13	8°♈27'22	
retrograde	-7961 Oct 09 j 12:52	25°♈47'29	
opposition	-7961 Dec 08 j 07:27	20°♈53'34	0°45'12
min. Earth dist.	-7961 Dec 09 j 00:41	20°♈47'56	4.34100 AU
direct	-7960 Feb 08 j 09:46	15°♈50'11	
	-7960 May 28 j 03:31	0°♉	
evening set	-7960 Jun 15 j 15:09	3°♉59'39	
max. Earth dist.	-7960 Jun 27 j 07:43	6°♉34'44	6.35116 AU
conjunction	-7960 Jun 28 j 14:27	6°♉51'47	0°54'16
minimum elong	-7960 Jun 28 j 14:23	6°♉51'45	0°54'32
morning rise	-7960 Jul 11 j 10:12	9°♉42'13	
	-7960 Aug 05 j 01:28	15°♉	
retrograde	-7960 Nov 08 j 23:52	26°♉55'02	
opposition	-7959 Jan 08 j 09:00	22°♉03'10	1°46'10
min. Earth dist.	-7959 Jan 09 j 09:02	21°♉55'28	4.35111 AU
direct	-7959 Mar 11 j 21:19	17°♉02'01	
	-7959 Jun 23 j 14:46	0°♊	
evening set	-7959 Jul 17 j 04:51	5°♊06'14	
max. Earth dist.	-7959 Jul 28 j 07:03	7°♊34'47	6.33746 AU
conjunction	-7959 Jul 29 j 19:09	7°♊55'00	1°26'22
minimum elong	-7959 Jul 29 j 19:05	7°♊54'58	1°26'50
morning rise	-7959 Aug 11 j 07:11	10°♊42'40	
retrograde	-7959 Dec 11 j 06:14	28°♊11'33	
opposition	-7958 Feb 10 j 04:02	23°♊19'53	2°16'53
min. Earth dist.	-7958 Feb 11 j 04:48	23°♊12'01	4.31566 AU
direct	-7958 Apr 13 j 11:53	18°♊21'39	
	-7958 Jul 18 j 15:49	0°♋	
evening set	-7958 Aug 17 j 10:18	6°♋28'40	

conjunction	-7958 Aug 29 j 20:29	9°♋17'42	1°33'32
minimum elong	-7958 Aug 29 j 20:30	9°♋17'42	1°34'04
max. Earth dist.	-7958 Aug 28 j 15:34	9°♋01'15	6.28233 AU
morning rise	-7958 Sep 11 j 05:44	12°♋06'26	
	-7957 Jan 03 j 04:19	0°♌	
retrograde	-7957 Jan 13 j 17:04	0°♌10'21	
	-7957 Jan 24 j 06:55	30°℞♋	
opposition	-7957 Mar 16 j 00:52	25°♋16'59	2°07'22
min. Earth dist.	-7957 Mar 16 j 17:25	25°♋11'44	4.24459 AU
direct	-7957 May 16 j 11:58	20°♋21'42	
	-7957 Aug 09 j 07:30	0°♌	
evening set	-7957 Sep 18 j 01:14	8°♌38'18	
conjunction	-7957 Sep 30 j 13:17	11°♌31'27	1°12'21
minimum elong	-7957 Sep 30 j 13:22	11°♌31'29	1°12'47
max. Earth dist.	-7957 Sep 29 j 22:18	11°♌22'46	6.20150 AU
morning rise	-7957 Oct 13 j 02:31	14°♌25'20	
	-7957 Oct 15 j 14:58	15°♌	
	-7956 Jan 01 j 14:28	0°♍	
retrograde	-7956 Feb 17 j 17:07	3°♍15'04	
	-7956 Apr 05 j 14:15	30°℞♌	
opposition	-7956 Apr 19 j 00:54	28°♌18'26	1°16'54
min. Earth dist.	-7956 Apr 19 j 04:37	28°♌17'14	4.15880 AU
direct	-7956 Jun 18 j 07:43	23°♌25'06	
	-7956 Aug 24 j 12:20	0°♍	
evening set	-7956 Oct 19 j 19:28	11°♍56'34	
conjunction	-7956 Nov 01 j 14:37	14°♍56'21	0°27'10
minimum elong	-7956 Nov 01 j 14:40	14°♍56'22	0°27'22
max. Earth dist.	-7956 Nov 01 j 20:25	14°♍59'45	6.11933 AU
morning rise	-7956 Nov 14 j 12:25	17°♍57'41	
	-7955 Jan 09 j 22:22	0°♎	
retrograde	-7955 Mar 24 j 20:27	7°♎31'23	
desc. node	-7955 May 16 j 13:46	3°♎35'29	
opposition	-7955 May 24 j 20:17	2°♎30'49	-0°01'46
min. Earth dist.	-7955 May 24 j 08:44	2°♎34'37	4.08667 AU
	-7955 Jun 13 j 23:29	30°℞♍	
direct	-7955 Jul 22 j 20:47	27°♍37'52	
	-7955 Aug 30 j 05:24	0°♎	
evening set	-7955 Nov 23 j 06:01	16°♎26'34	
conjunction	-7955 Dec 06 j 09:44	19°♎32'33	-0°28'31
minimum elong	-7955 Dec 06 j 09:41	19°♎32'31	0°28'38
max. Earth dist.	-7955 Dec 07 j 10:37	19°♎47'14	6.06391 AU
morning rise	-7955 Dec 19 j 17:04	22°♎40'27	
	-7954 Jan 21 j 03:16	0°♏	
retrograde	-7954 Apr 30 j 09:44	12°♏40'43	
opposition	-7954 Jun 29 j 19:37	7°♏36'47	-1°21'39
min. Earth dist.	-7954 Jun 28 j 21:28	7°♏44'14	4.05388 AU
direct	-7954 Aug 27 j 01:32	2°♏42'06	
	-7954 Nov 29 j 12:57	15°♏	
evening set	-7954 Dec 29 j 07:38	21°♏44'56	
conjunction	-7953 Jan 11 j 18:51	24°♏54'22	-1°14'32
minimum elong	-7953 Jan 11 j 18:46	24°♏54'19	1°14'56
max. Earth dist.	-7953 Jan 13 j 08:54	25°♏16'42	6.05569 AU
morning rise	-7953 Jan 25 j 08:56	28°♏05'17	
	-7953 Feb 02 j 15:14	0°♐	
retrograde	-7953 Jun 05 j 12:21	18°♐01'45	
min. Earth dist.	-7953 Aug 03 j 05:20	13°♐04'49	4.07252 AU
opposition	-7953 Aug 04 j 05:23	12°♐56'37	-2°11'38
direct	-7953 Oct 01 j 10:12	7°♐58'48	
evening set	-7952 Feb 04 j 05:14	27°♐05'24	
	-7952 Feb 16 j 19:26	0°♑	
conjunction	-7952 Feb 17 j 21:01	0°♑14'48	-1°33'06
minimum elong	-7952 Feb 17 j 21:01	0°♑14'48	1°33'38

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

max. Earth dist.	-7952 Feb 19 j 07:40	0°♑34'51	6.09807 AU
morning rise	-7952 Mar 02 j 14:33	3°♑24'54	
retrograde	-7952 Jul 09 j 06:13	22°♑47'14	
opposition	-7952 Sep 06 j 13:02	17°♑43'22	-2°13'15
min. Earth dist.	-7952 Sep 05 j 18:33	17°♑49'41	4.13482 AU
direct	-7952 Nov 04 j 10:04	12°♑42'09	
	-7951 Mar 04 j 09:04	0°♒	
evening set	-7951 Mar 11 j 18:10	1°♒39'27	
conjunction	-7951 Mar 25 j 11:52	4°♒46'21	-1°18'20
minimum elong	-7951 Mar 25 j 11:57	4°♒46'24	1°18'47
max. Earth dist.	-7951 Mar 26 j 08:16	4°♒57'57	6.17515 AU
morning rise	-7951 Apr 08 j 04:57	7°♒52'48	
	-7951 May 10 j 22:41	15°♒	
retrograde	-7951 Aug 11 j 13:29	26°♒25'05	
opposition	-7951 Oct 09 j 16:21	21°♒24'30	-1°29'33
min. Earth dist.	-7951 Oct 09 j 10:20	21°♒26'31	4.21833 AU
direct	-7951 Dec 08 j 17:29	16°♒20'58	
	-7950 Mar 24 j 00:02	0°♓	
evening set	-7950 Apr 16 j 01:19	5°♓00'32	
conjunction	-7950 Apr 29 j 16:22	8°♓02'58	-0°37'47
minimum elong	-7950 Apr 29 j 16:26	8°♓03'00	0°38'03
max. Earth dist.	-7950 Apr 29 j 15:06	8°♓02'16	6.25935 AU
morning rise	-7950 May 13 j 05:03	11°♓04'05	
retrograde	-7950 Sep 12 j 13:21	28°♓50'23	
opposition	-7950 Nov 10 j 22:33	23°♓53'38	-0°19'05
min. Earth dist.	-7950 Nov 11 j 05:19	23°♓51'23	4.29540 AU
direct	-7949 Jan 11 j 04:32	18°♓49'29	
asc. node	-7949 Feb 17 j 10:11	20°♓52'18	
	-7949 Apr 15 j 20:02	0°♈	
evening set	-7949 May 19 j 19:11	7°♈10'57	
max. Earth dist.	-7949 Jun 01 j 07:00	9°♈56'44	6.32413 AU
conjunction	-7949 Jun 02 j 02:53	10°♈07'45	0°13'36
minimum elong	-7949 Jun 02 j 02:52	10°♈07'44	0°13'37
behind sun begin	-7949 Jun 01 j 22:29	10°♈05'20	
behind sun end	-7949 Jun 02 j 07:14	10°♈10'09	
morning rise	-7949 Jun 15 j 07:06	13°♈02'47	
	-7949 Sep 29 j 04:38	0°♉	
retrograde	-7949 Oct 14 j 00:11	0°♉21'13	
	-7949 Oct 28 j 19:02	30°℞♈	
opposition	-7949 Dec 12 j 20:31	25°♈27'45	0°55'10
min. Earth dist.	-7949 Dec 13 j 14:49	25°♈21'48	4.34348 AU
direct	-7948 Feb 13 j 00:58	20°♈24'44	
	-7948 May 10 j 02:28	0°♉	
evening set	-7948 Jun 20 j 04:24	8°♉33'28	
max. Earth dist.	-7948 Jul 01 j 17:36	11°♉06'54	6.35115 AU
conjunction	-7948 Jul 03 j 02:13	11°♉25'00	1°00'04
minimum elong	-7948 Jul 03 j 02:09	11°♉24'58	1°00'22
morning rise	-7948 Jul 15 j 20:49	14°♉14'56	
	-7948 Jul 19 j 06:40	15°♉	
	-7948 Oct 13 j 15:04	0°♊	
retrograde	-7948 Nov 13 j 13:06	1°♊28'51	
	-7948 Dec 14 j 15:33	30°℞♉	
opposition	-7947 Jan 13 j 00:02	26°♉37'07	1°52'39
min. Earth dist.	-7947 Jan 14 j 00:22	26°♉29'20	4.34900 AU
direct	-7947 Mar 16 j 13:05	21°♉36'23	
	-7947 Jun 05 j 00:25	0°♊	
evening set	-7947 Jul 21 j 15:56	9°♊40'19	
max. Earth dist.	-7947 Aug 01 j 19:39	12°♊09'54	6.33345 AU
conjunction	-7947 Aug 03 j 05:25	12°♊28'51	1°29'02
minimum elong	-7947 Aug 03 j 05:22	12°♊28'49	1°29'30
morning rise	-7947 Aug 15 j 16:31	15°♊16'19	
	-7947 Nov 02 j 11:29	0°♋	

retrograde	-7947 Dec 15 j 21:05	2°♋48'26	
	-7946 Jan 29 j 03:43	30°℞♊	
opposition	-7946 Feb 14 j 21:52	27°♊56'39	2°18'02
min. Earth dist.	-7946 Feb 15 j 21:14	27°♊49'15	4.31008 AU
direct	-7946 Apr 18 j 03:47	22°♊58'55	
	-7946 Jun 29 j 03:52	0°♋	
evening set	-7946 Aug 21 j 20:53	11°♋05'48	
max. Earth dist.	-7946 Sep 02 j 02:45	13°♋39'03	6.27554 AU
conjunction	-7946 Sep 03 j 06:45	13°♋54'59	1°32'12
minimum elong	-7946 Sep 03 j 06:46	13°♋55'00	1°32'44
morning rise	-7946 Sep 15 j 16:15	16°♋44'05	
	-7946 Nov 21 j 01:46	0°♌	
retrograde	-7945 Jan 18 j 13:15	4°♌52'41	
opposition	-7945 Mar 20 j 21:37	29°♋58'55	2°02'31
	-7945 Mar 20 j 18:12	30°℞♋	
min. Earth dist.	-7945 Mar 21 j 12:51	29°♋54'04	4.23677 AU
direct	-7945 May 21 j 06:13	25°♋03'55	
	-7945 Jul 18 j 15:58	0°♌	
evening set	-7945 Sep 22 j 13:18	13°♌20'50	
	-7945 Sep 29 j 17:13	15°♌	
conjunction	-7945 Oct 05 j 02:10	16°♌14'39	1°07'14
minimum elong	-7945 Oct 05 j 02:14	16°♌14'41	1°07'38
max. Earth dist.	-7945 Oct 04 j 14:33	16°♌07'55	6.19350 AU
morning rise	-7945 Oct 17 j 16:12	19°♌09'17	
	-7945 Dec 07 j 12:54	0°♍	
retrograde	-7944 Feb 22 j 15:39	8°♍03'57	
opposition	-7944 Apr 23 j 23:23	3°♍06'48	1°07'05
min. Earth dist.	-7944 Apr 24 j 01:00	3°♍06'17	4.15108 AU
	-7944 May 20 j 04:55	30°℞♌	
direct	-7944 Jun 23 j 01:47	28°♌13'39	
	-7944 Jul 26 j 13:27	0°♍	
evening set	-7944 Oct 24 j 11:28	16°♍46'08	
conjunction	-7944 Nov 06 j 07:37	19°♍46'41	0°19'40
minimum elong	-7944 Nov 06 j 07:39	19°♍46'42	0°19'49
max. Earth dist.	-7944 Nov 06 j 14:52	19°♍50'55	6.11254 AU
morning rise	-7944 Nov 19 j 06:46	22°♍48'53	
	-7944 Dec 21 j 05:40	0°♎	
desc. node	-7943 Mar 27 j 13:36	12°♎26'06	
retrograde	-7943 Mar 29 j 20:32	12°♎26'36	
opposition	-7943 May 29 j 19:21	7°♎25'28	-0°13'26
min. Earth dist.	-7943 May 29 j 06:19	7°♎29'46	4.08125 AU
direct	-7943 Jul 27 j 16:54	2°♎32'20	
evening set	-7943 Nov 28 j 02:50	21°♎22'44	
conjunction	-7943 Dec 11 j 07:50	24°♎29'23	-0°35'53
minimum elong	-7943 Dec 11 j 07:46	24°♎29'21	0°36'03
max. Earth dist.	-7943 Dec 12 j 11:37	24°♎45'47	6.06041 AU
morning rise	-7943 Dec 24 j 16:09	27°♎37'52	
	-7942 Jan 03 j 20:59	0°♏	
	-7942 Mar 24 j 16:04	15°♏	
retrograde	-7942 May 05 j 11:13	17°♏39'31	
	-7942 Jun 16 j 01:08	15°℞♏	
opposition	-7942 Jul 04 j 17:44	12°♏35'20	-1°30'53
min. Earth dist.	-7942 Jul 03 j 19:39	12°♏42'46	4.05284 AU
direct	-7942 Aug 31 j 22:30	7°♏40'18	
	-7942 Nov 09 j 21:27	15°♏	
evening set	-7941 Jan 03 j 09:02	26°♏44'45	
conjunction	-7941 Jan 16 j 20:53	29°♏54'24	-1°18'58
minimum elong	-7941 Jan 16 j 20:48	29°♏54'22	1°19'24
	-7941 Jan 17 j 06:25	0°♐	
max. Earth dist.	-7941 Jan 18 j 09:31	0°♐15'53	6.05694 AU
morning rise	-7941 Jan 30 j 11:50	3°♐05'33	
retrograde	-7941 Jun 10 j 09:10	22°♐59'51	

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

min. Earth dist.	-7941 Aug 08 j 00:49	18°♐02'58	4.07618 AU
opposition	-7941 Aug 09 j 00:54	17°♐54'44	-2°14'51
direct	-7941 Oct 06 j 06:15	12°♐56'25	
	-7940 Jan 31 j 07:22	0°♑	
evening set	-7940 Feb 09 j 08:02	2°♑03'40	
conjunction	-7940 Feb 23 j 00:29	5°♑13'04	-1°32'57
minimum elong	-7940 Feb 23 j 00:30	5°♑13'04	1°33'29
max. Earth dist.	-7940 Feb 24 j 10:18	5°♑32'36	6.10399 AU
morning rise	-7940 Mar 07 j 18:07	8°♑22'57	
retrograde	-7940 Jul 14 j 01:17	27°♑40'12	
opposition	-7940 Sep 11 j 05:52	22°♑36'42	-2°09'31
min. Earth dist.	-7940 Sep 10 j 13:32	22°♑42'17	4.14233 AU
direct	-7940 Nov 09 j 06:21	17°♑35'06	
	-7939 Feb 14 j 23:21	0°♒	
evening set	-7939 Mar 16 j 19:02	6°♒31'29	
conjunction	-7939 Mar 30 j 12:45	9°♒38'03	-1°13'50
minimum elong	-7939 Mar 30 j 12:50	9°♒38'06	1°14'17
max. Earth dist.	-7939 Mar 31 j 06:33	9°♒48'09	6.18379 AU
morning rise	-7939 Apr 13 j 05:39	12°♒44'03	
	-7939 Apr 23 j 09:10	15°♒	
	-7939 Jul 20 j 06:18	0°♓	
retrograde	-7939 Aug 16 j 02:37	1°♓10'22	
	-7939 Sep 11 j 19:19	30°℞♒	
opposition	-7939 Oct 14 j 06:40	26°♒10'15	-1°20'39
min. Earth dist.	-7939 Oct 14 j 01:27	26°♒12'00	4.22733 AU
direct	-7939 Dec 13 j 10:53	21°♒06'31	
	-7938 Mar 05 j 05:17	0°♓	
evening set	-7938 Apr 20 j 22:09	9°♓44'13	
conjunction	-7938 May 04 j 12:26	12°♓46'00	-0°30'46
minimum elong	-7938 May 04 j 12:29	12°♓46'01	0°30'58
max. Earth dist.	-7938 May 04 j 08:40	12°♓43'53	6.26828 AU
morning rise	-7938 May 18 j 00:10	15°♓46'21	
	-7938 Jul 31 j 12:00	0°♈	
retrograde	-7938 Sep 17 j 01:49	3°♈27'52	
	-7938 Nov 04 j 04:07	30°℞♓	
opposition	-7938 Nov 15 j 11:29	28°♓31'37	-0°08'13
min. Earth dist.	-7938 Nov 15 j 20:22	28°♓28'40	4.30340 AU
asc. node	-7938 Dec 27 j 18:26	24°♓01'40	
direct	-7937 Jan 15 j 22:03	23°♓27'31	
	-7937 Mar 26 j 13:47	0°♈	
evening set	-7937 May 24 j 11:19	11°♈46'50	
conjunction	-7937 Jun 06 j 17:45	14°♈42'50	0°20'50
minimum elong	-7937 Jun 06 j 17:43	14°♈42'49	0°20'53
max. Earth dist.	-7937 Jun 05 j 19:53	14°♈30'44	6.33042 AU
morning rise	-7937 Jun 19 j 20:38	17°♈37'03	
	-7937 Aug 21 j 20:17	0°♉	
retrograde	-7937 Oct 18 j 10:05	4°♉53'11	
opposition	-7937 Dec 17 j 09:12	29°♈59'58	1°04'45
	-7937 Dec 17 j 09:05	30°℞♈	
min. Earth dist.	-7937 Dec 18 j 04:02	29°♈53'51	4.34768 AU
direct	-7936 Feb 17 j 15:28	24°♈57'08	
	-7936 Apr 18 j 11:40	0°♉	
evening set	-7936 Jun 24 j 16:22	13°♉04'19	
	-7936 Jul 03 j 09:31	15°♉	
max. Earth dist.	-7936 Jul 06 j 04:26	15°♉37'10	6.35263 AU
conjunction	-7936 Jul 07 j 12:51	15°♉55'11	1°05'28
minimum elong	-7936 Jul 07 j 12:47	15°♉55'09	1°05'49
morning rise	-7936 Jul 20 j 06:06	18°♉44'29	
	-7936 Sep 14 j 06:07	0°♊	
retrograde	-7936 Nov 18 j 01:03	5°♊59'08	
opposition	-7935 Jan 17 j 14:15	1°♊07'31	1°58'27
min. Earth dist.	-7935 Jan 18 j 15:11	0°♊59'34	4.34753 AU
	-7935 Jan 26 j 11:29	30°℞♉	
direct	-7935 Mar 21 j 03:59	26°♉07'09	
	-7935 May 12 j 19:59	0°♊	
evening set	-7935 Jul 26 j 01:32	14°♊10'32	
max. Earth dist.	-7935 Aug 06 j 03:17	16°♊39'18	6.32870 AU
conjunction	-7935 Aug 07 j 14:03	16°♊58'49	1°31'09
minimum elong	-7935 Aug 07 j 14:00	16°♊58'48	1°31'39
morning rise	-7935 Aug 20 j 00:39	19°♊46'14	
	-7935 Oct 08 j 10:42	0°♋	
retrograde	-7935 Dec 20 j 12:35	7°♋22'08	
opposition	-7934 Feb 19 j 14:51	2°♋30'09	2°18'24
min. Earth dist.	-7934 Feb 20 j 13:33	2°♋22'57	4.30236 AU
	-7934 Mar 12 j 07:49	30°℞♊	
direct	-7934 Apr 22 j 18:34	27°♊32'45	
	-7934 Jun 02 j 17:34	0°♋	
evening set	-7934 Aug 26 j 06:39	15°♋40'28	
conjunction	-7934 Sep 07 j 16:41	18°♋30'05	1°30'21
minimum elong	-7934 Sep 07 j 16:44	18°♋30'06	1°30'52
max. Earth dist.	-7934 Sep 06 j 15:24	18°♋15'39	6.26547 AU
morning rise	-7934 Sep 20 j 02:17	21°♋19'42	
	-7934 Oct 30 j 10:05	0°♌	
retrograde	-7933 Jan 23 j 09:28	9°♌34'15	
opposition	-7933 Mar 25 j 18:08	4°♌40'09	1°56'57
min. Earth dist.	-7933 Mar 26 j 08:08	4°♌35'41	4.22492 AU
	-7933 May 13 j 12:12	30°℞♋	
direct	-7933 May 25 j 22:46	29°♋45'30	
	-7933 Jun 07 j 08:39	0°♌	
	-7933 Sep 13 j 14:10	15°♌	
evening set	-7933 Sep 27 j 02:14	18°♌04'28	
conjunction	-7933 Oct 09 j 15:47	20°♌59'09	1°01'39
minimum elong	-7933 Oct 09 j 15:51	20°♌59'12	1°02'03
max. Earth dist.	-7933 Oct 09 j 05:05	20°♌52'57	6.18086 AU
morning rise	-7933 Oct 22 j 07:04	23°♌54'51	
	-7933 Nov 18 j 10:51	0°♍	
retrograde	-7932 Feb 27 j 16:21	12°♍56'28	
opposition	-7932 Apr 28 j 23:26	7°♍58'45	0°56'45
min. Earth dist.	-7932 Apr 28 j 22:53	7°♍58'56	4.13845 AU
direct	-7932 Jun 27 j 21:06	3°♍05'41	
evening set	-7932 Oct 29 j 05:50	21°♍41'15	
conjunction	-7932 Nov 11 j 03:24	24°♍42'53	0°11'53
minimum elong	-7932 Nov 11 j 03:25	24°♍42'53	0°11'59
behind sun begin	-7932 Nov 10 j 21:48	24°♍39'36	
behind sun end	-7932 Nov 11 j 09:02	24°♍46'10	
max. Earth dist.	-7932 Nov 11 j 14:38	24°♍49'28	6.10123 AU
morning rise	-7932 Nov 24 j 03:48	27°♍46'11	
	-7932 Dec 03 j 18:52	0°♎	
desc. node	-7931 Feb 04 j 02:02	12°♎29'21	
retrograde	-7931 Apr 04 j 01:32	17°♎29'34	
opposition	-7931 Jun 03 j 21:29	12°♎28'00	-0°25'20
min. Earth dist.	-7931 Jun 03 j 07:27	12°♎32'37	4.07237 AU
direct	-7931 Aug 01 j 16:01	7°♎34'46	
evening set	-7931 Dec 03 j 04:12	26°♎28'27	
conjunction	-7931 Dec 16 j 10:11	29°♎35'49	-0°43'13
minimum elong	-7931 Dec 16 j 10:07	29°♎35'46	0°43'25
max. Earth dist.	-7931 Dec 17 j 14:41	29°♎52'38	6.05459 AU
	-7931 Dec 18 j 03:10	0°♏	
morning rise	-7931 Dec 29 j 19:50	2°♏45'05	
	-7930 Feb 24 j 18:15	15°♏	
retrograde	-7930 May 10 j 14:36	22°♏48'40	
opposition	-7930 Jul 09 j 19:22	17°♏44'15	-1°39'46
min. Earth dist.	-7930 Jul 08 j 19:38	17°♏52'16	4.05105 AU
	-7930 Jul 31 j 08:55	15°℞♏	

Attention, astronomical year style is used: The year -7930 in astronomical counting style is the year 7931 BCE in historical counting style.

direct	-7930 Sep 05 j 22:22	12°♏48'51		
	-7930 Oct 12 j 08:59	15°♏		
	-7930 Dec 31 j 07:49	0°♐		
evening set	-7929 Jan 08 j 15:05	1°♐55'24		
conjunction	-7929 Jan 22 j 03:55	5°♐05'19	-1°22'59	
minimum elong	-7929 Jan 22 j 03:51	5°♐05'17	1°23'26	
max. Earth dist.	-7929 Jan 23 j 18:23	5°♐27'51	6.05945 AU	
morning rise	-7929 Feb 04 j 19:21	8°♐16'34		
retrograde	-7929 Jun 15 j 11:26	28°♐07'46		
min. Earth dist.	-7929 Aug 13 j 01:08	23°♐10'40	4.08307 AU	
opposition	-7929 Aug 14 j 00:11	23°♐02'47	-2°17'10	
direct	-7929 Oct 11 j 07:40	18°♐04'04		
	-7928 Jan 13 j 05:49	0°♑		
evening set	-7928 Feb 14 j 14:23	7°♑10'31		
conjunction	-7928 Feb 28 j 07:11	10°♑19'37	-1°32'08	
minimum elong	-7928 Feb 28 j 07:13	10°♑19'38	1°32'40	
max. Earth dist.	-7928 Feb 29 j 16:28	10°♑38'47	6.11490 AU	
morning rise	-7928 Mar 13 j 01:00	13°♑29'04		
	-7928 Jun 07 j 18:10	0°♒		
retrograde	-7928 Jul 18 j 19:23	2°♒38'51		
	-7928 Aug 28 j 15:31	30°℞♑		
min. Earth dist.	-7928 Sep 15 j 08:17	27°♑41'20	4.15645 AU	
opposition	-7928 Sep 16 j 00:38	27°♑35'45	-2°04'48	
direct	-7928 Nov 14 j 03:53	22°♑33'49		
	-7927 Jan 25 j 18:55	0°♒		
evening set	-7927 Mar 21 j 21:05	11°♒26'37		
conjunction	-7927 Apr 04 j 14:27	14°♒32'23	-1°08'51	
minimum elong	-7927 Apr 04 j 14:32	14°♒32'26	1°09'17	
max. Earth dist.	-7927 Apr 05 j 05:26	14°♒40'51	6.20024 AU	
	-7927 Apr 06 j 15:19	15°♒		
morning rise	-7927 Apr 18 j 06:50	17°♒37'27		
	-7927 Jun 18 j 04:49	0°♓		
retrograde	-7927 Aug 20 j 16:28	5°♓55'00		
opposition	-7927 Oct 18 j 20:41	0°♓55'24	-1°11'19	
min. Earth dist.	-7927 Oct 18 j 17:59	0°♓56'19	4.24438 AU	
	-7927 Oct 25 j 18:07	30°℞♒		
direct	-7927 Dec 18 j 07:19	25°♒51'30		
	-7926 Feb 09 j 18:55	0°♓		
evening set	-7926 Apr 25 j 17:01	14°♓24'20		
conjunction	-7926 May 09 j 06:28	17°♓25'03	-0°23'42	
minimum elong	-7926 May 09 j 06:30	17°♓25'04	0°23'53	
max. Earth dist.	-7926 May 09 j 00:51	17°♓21'56	6.28468 AU	
morning rise	-7926 May 22 j 16:57	20°♓24'14		
	-7926 Jul 08 j 00:02	0°♈		
retrograde	-7926 Sep 21 j 08:47	7°♈58'46		
asc. node	-7926 Nov 07 j 20:22	4°♈36'47		
opposition	-7926 Nov 19 j 21:40	3°♈02'59	0°02'20	
min. Earth dist.	-7926 Nov 20 j 07:26	2°♈59'45	4.31783 AU	
	-7926 Dec 14 j 19:04	30°℞♓		
direct	-7925 Jan 20 j 11:35	27°♓58'56		
	-7925 Feb 26 j 14:26	0°♈		
evening set	-7925 May 28 j 23:14	16°♈13'59		
max. Earth dist.	-7925 Jun 10 j 03:28	18°♈55'16	6.34168 AU	
conjunction	-7925 Jun 11 j 04:08	19°♈08'54	0°27'39	
minimum elong	-7925 Jun 11 j 04:05	19°♈08'53	0°27'46	
morning rise	-7925 Jun 24 j 05:38	22°♈02'05		
	-7925 Aug 01 j 05:50	0°♉		
retrograde	-7925 Oct 22 j 17:14	9°♉14'50		
opposition	-7925 Dec 21 j 17:53	4°♉21'57	1°13'32	
min. Earth dist.	-7925 Dec 22 j 15:11	4°♉15'04	4.35494 AU	
	-7924 Jan 31 j 21:47	30°℞♈		
direct	-7924 Feb 22 j 03:41	29°♈19'20		
	-7924 Mar 14 j 11:18	0°♉		
	-7924 Jun 17 j 23:17	15°♉		
evening set	-7924 Jun 28 j 23:16	17°♉24'04		
max. Earth dist.	-7924 Jul 10 j 07:58	19°♉55'06	6.35499 AU	
conjunction	-7924 Jul 11 j 18:29	20°♉14'17	1°10'15	
minimum elong	-7924 Jul 11 j 18:25	20°♉14'14	1°10'37	
morning rise	-7924 Jul 24 j 10:32	23°♉02'59		
	-7924 Aug 26 j 03:19	0°♊		
retrograde	-7924 Nov 22 j 07:59	10°♊18'27		
opposition	-7923 Jan 21 j 23:42	5°♊26'52	2°03'19	
min. Earth dist.	-7923 Jan 23 j 00:56	5°♊18'49	4.34505 AU	
direct	-7923 Mar 25 j 12:27	0°♊26'47		
evening set	-7923 Jul 30 j 06:33	18°♊30'13		
max. Earth dist.	-7923 Aug 10 j 08:04	20°♊59'08	6.32145 AU	
conjunction	-7923 Aug 11 j 18:26	21°♊18'29	1°32'40	
minimum elong	-7923 Aug 11 j 18:24	21°♊18'28	1°33'11	
morning rise	-7923 Aug 24 j 04:26	24°♊05'57		
	-7923 Sep 20 j 08:11	0°♋		
retrograde	-7923 Dec 25 j 01:17	11°♋46'39		
opposition	-7922 Feb 24 j 03:56	6°♋54'32	2°17'58	
min. Earth dist.	-7922 Feb 25 j 03:11	6°♋47'10	4.29069 AU	
direct	-7922 Apr 27 j 05:27	1°♋57'30		
evening set	-7922 Aug 30 j 13:12	20°♋07'33		
conjunction	-7922 Sep 11 j 23:21	22°♋57'52	1°28'00	
minimum elong	-7922 Sep 11 j 23:23	22°♋57'53	1°28'30	
max. Earth dist.	-7922 Sep 10 j 21:29	22°♋43'03	6.25029 AU	
morning rise	-7922 Sep 24 j 09:37	25°♋48'20		
	-7922 Oct 13 j 03:32	0°♌		
retrograde	-7921 Jan 28 j 03:58	14°♌10'52		
opposition	-7921 Mar 30 j 12:28	9°♌16'17	1°50'47	
min. Earth dist.	-7921 Mar 31 j 00:35	9°♌12'26	4.20720 AU	
direct	-7921 May 30 j 11:55	4°♌21'53		
	-7921 Aug 27 j 13:06	15°♌		
evening set	-7921 Oct 01 j 13:56	22°♌45'08		
conjunction	-7921 Oct 14 j 04:40	25°♌41'04	0°55'45	
minimum elong	-7921 Oct 14 j 04:44	25°♌41'07	0°56'06	
max. Earth dist.	-7921 Oct 13 j 21:36	25°♌36'58	6.16241 AU	
morning rise	-7921 Oct 26 j 21:02	28°♌38'05		
	-7921 Nov 01 j 19:13	0°♍		
retrograde	-7920 Mar 03 j 18:36	17°♍48'37		
opposition	-7920 May 03 j 23:08	12°♍50'25	0°46'03	
min. Earth dist.	-7920 May 03 j 21:15	12°♍51'01	4.12071 AU	
direct	-7920 Jul 02 j 16:27	7°♍57'28		
evening set	-7920 Nov 03 j 01:33	26°♍38'03		
conjunction	-7920 Nov 16 j 00:19	29°♍40'55	0°04'02	
minimum elong	-7920 Nov 16 j 00:19	29°♍40'55	0°04'05	
behind sun begin	-7920 Nov 15 j 16:18	29°♍36'13		
behind sun end	-7920 Nov 16 j 08:20	29°♍45'37		
max. Earth dist.	-7920 Nov 16 j 13:21	29°♍48'35	6.08588 AU	
	-7920 Nov 17 j 08:41	0°♎		
morning rise	-7920 Nov 29 j 02:24	2°♎45'35		
desc. node	-7920 Dec 14 j 07:22	6°♎16'23		
retrograde	-7919 Apr 09 j 06:11	22°♎35'42		
min. Earth dist.	-7919 Jun 08 j 07:18	17°♎39'16	4.06104 AU	
opposition	-7919 Jun 09 j 00:26	17°♎33'35	-0°37'08	
direct	-7919 Aug 06 j 14:33	12°♎40'09		
	-7919 Dec 01 j 07:55	0°♏		
evening set	-7919 Dec 08 j 07:31	1°♏37'53		
conjunction	-7919 Dec 21 j 14:49	4°♏46'04	-0°50'17	
minimum elong	-7919 Dec 21 j 14:44	4°♏46'01	0°50'33	
max. Earth dist.	-7919 Dec 22 j 23:14	5°♏05'12	6.04823 AU	

Attention, astronomical year style is used: The year -7918 in astronomical counting style is the year 7919 BCE in historical counting style.

morning rise	-7918 Jan 04 j 01:26	7°♏56'02	
	-7918 Feb 04 j 06:02	15°♏	
retrograde	-7918 May 15 j 21:12	28°♏01'06	
opposition	-7918 Jul 14 j 22:25	22°♏56'21	-1°47'56
min. Earth dist.	-7918 Jul 13 j 22:25	23°♏04'29	4.05035 AU
direct	-7918 Sep 11 j 01:21	18°♏00'30	
	-7918 Dec 13 j 06:03	0°♐	
evening set	-7917 Jan 13 j 22:46	7°♐08'16	
conjunction	-7917 Jan 27 j 12:17	10°♐18'16	-1°26'22
minimum elong	-7917 Jan 27 j 12:13	10°♐18'14	1°26'50
max. Earth dist.	-7917 Jan 29 j 03:47	10°♐41'22	6.06401 AU
morning rise	-7917 Feb 10 j 04:19	13°♐29'28	
	-7917 May 05 j 09:43	0°♑	
retrograde	-7917 Jun 20 j 11:12	3°♑15'56	
	-7917 Aug 05 j 09:23	30°℞♐	
opposition	-7917 Aug 18 j 23:25	28°♐11'00	-2°18'25
min. Earth dist.	-7917 Aug 17 j 23:44	28°♐19'06	4.09232 AU
direct	-7917 Oct 16 j 08:04	23°♐11'46	
	-7917 Dec 23 j 07:36	0°♑	
evening set	-7916 Feb 19 j 21:01	12°♑16'24	
conjunction	-7916 Mar 04 j 14:01	15°♑25'02	-1°30'38
minimum elong	-7916 Mar 04 j 14:03	15°♑25'03	1°31'09
max. Earth dist.	-7916 Mar 05 j 20:48	15°♑42'43	6.12757 AU
morning rise	-7916 Mar 18 j 07:51	18°♑33'53	
	-7916 May 11 j 14:43	0°♒	
retrograde	-7916 Jul 23 j 14:33	7°♒35'35	
opposition	-7916 Sep 20 j 19:00	2°♒32'52	-1°59'13
min. Earth dist.	-7916 Sep 20 j 05:02	2°♒37'38	4.17077 AU
	-7916 Oct 10 j 10:56	30°℞♑	
direct	-7916 Nov 19 j 03:52	27°♑30'32	
	-7916 Dec 29 j 05:39	0°♒	
	-7915 Mar 20 j 23:15	15°♒	
evening set	-7915 Mar 26 j 22:27	16°♒19'49	
conjunction	-7915 Apr 09 j 15:40	19°♒24'53	-1°03'24
minimum elong	-7915 Apr 09 j 15:45	19°♒24'56	1°03'47
max. Earth dist.	-7915 Apr 10 j 04:57	19°♒32'22	6.21503 AU
morning rise	-7915 Apr 23 j 07:20	22°♒29'03	
	-7915 May 28 j 06:59	0°♓	
retrograde	-7915 Aug 25 j 05:14	10°♓38'51	
opposition	-7915 Oct 23 j 10:51	5°♓39'51	-1°01'31
min. Earth dist.	-7915 Oct 23 j 09:19	5°♓40'22	4.25819 AU
direct	-7915 Dec 23 j 01:00	0°♓35'51	
evening set	-7914 Apr 30 j 12:24	19°♓05'16	
conjunction	-7914 May 14 j 00:40	22°♓05'04	-0°16'26
minimum elong	-7914 May 14 j 00:42	22°♓05'05	0°16'34
max. Earth dist.	-7914 May 13 j 14:39	21°♓59'30	6.29644 AU
morning rise	-7914 May 27 j 10:09	25°♓03'20	
	-7914 Jun 19 j 07:46	0°♈	
asc. node	-7914 Sep 17 j 12:58	12°♈26'13	
retrograde	-7914 Sep 25 j 20:24	12°♈33'01	
opposition	-7914 Nov 24 j 09:50	7°♈37'45	0°13'03
min. Earth dist.	-7914 Nov 24 j 22:30	7°♈33'35	4.32668 AU
direct	-7913 Jan 25 j 04:22	2°♈33'48	
evening set	-7913 Jun 02 j 13:23	20°♈46'42	
conjunction	-7913 Jun 15 j 17:03	23°♈40'52	0°34'31
minimum elong	-7913 Jun 15 j 17:00	23°♈40'51	0°34'40
max. Earth dist.	-7913 Jun 14 j 15:05	23°♈26'30	6.34687 AU
morning rise	-7913 Jun 28 j 17:02	26°♈33'14	
	-7913 Jul 14 j 14:18	0°♉	
retrograde	-7913 Oct 27 j 02:50	13°♉44'53	
opposition	-7913 Dec 26 j 06:12	8°♉52'19	1°22'14
min. Earth dist.	-7913 Dec 27 j 03:48	8°♉45'21	4.35645 AU
direct	-7912 Feb 26 j 16:08	3°♉50'02	
	-7912 May 31 j 20:52	15°♉	
evening set	-7912 Jul 03 j 10:18	21°♉54'17	
max. Earth dist.	-7912 Jul 14 j 16:27	24°♉24'09	6.35254 AU
conjunction	-7912 Jul 16 j 04:09	24°♉44'01	1°14'51
minimum elong	-7912 Jul 16 j 04:05	24°♉43'59	1°15'15
morning rise	-7912 Jul 28 j 19:09	27°♉32'22	
	-7912 Aug 09 j 00:23	0°♊	
retrograde	-7912 Nov 26 j 22:46	14°♊50'27	
opposition	-7911 Jan 26 j 14:57	9°♊58'59	2°07'45
min. Earth dist.	-7911 Jan 27 j 17:22	9°♊50'34	4.33892 AU
direct	-7911 Mar 30 j 03:36	4°♊59'20	
evening set	-7911 Aug 03 j 16:38	23°♊03'44	
max. Earth dist.	-7911 Aug 14 j 17:38	25°♊32'45	6.31199 AU
conjunction	-7911 Aug 16 j 03:57	25°♊52'07	1°33'43
minimum elong	-7911 Aug 16 j 03:56	25°♊52'07	1°34'15
morning rise	-7911 Aug 28 j 13:39	28°♊39'50	
	-7911 Sep 03 j 13:10	0°♋	
retrograde	-7911 Dec 29 j 19:07	16°♋26'11	
opposition	-7910 Feb 28 j 23:17	11°♋33'50	2°16'41
min. Earth dist.	-7910 Mar 01 j 20:33	11°♋27'05	4.27878 AU
direct	-7910 May 01 j 20:26	6°♋37'16	
evening set	-7910 Sep 04 j 01:19	24°♋49'28	
conjunction	-7910 Sep 16 j 11:50	27°♋40'28	1°25'00
minimum elong	-7910 Sep 16 j 11:53	27°♋40'29	1°25'30
max. Earth dist.	-7910 Sep 15 j 13:13	27°♋27'28	6.23712 AU
	-7910 Sep 26 j 15:00	0°♌	
morning rise	-7910 Sep 28 j 22:32	0°♌31'43	
	-7910 Dec 11 j 10:31	15°♌	
retrograde	-7909 Feb 02 j 04:47	19°♌01'24	
	-7909 Mar 28 j 11:48	15°℞♌	
opposition	-7909 Apr 04 j 12:25	14°♌06'26	1°43'34
min. Earth dist.	-7909 Apr 04 j 23:19	14°♌02'57	4.19376 AU
direct	-7909 Jun 04 j 08:22	9°♌12'25	
	-7909 Aug 06 j 12:15	15°♌	
evening set	-7909 Oct 06 j 06:24	27°♌38'11	
	-7909 Oct 16 j 09:58	0°♍	
conjunction	-7909 Oct 18 j 22:02	0°♍35'05	0°49'15
minimum elong	-7909 Oct 18 j 22:06	0°♍35'07	0°49'33
max. Earth dist.	-7909 Oct 18 j 17:14	0°♍32'17	6.15017 AU
morning rise	-7909 Oct 31 j 15:50	3°♍33'14	
retrograde	-7908 Mar 08 j 21:17	22°♍50'09	
opposition	-7908 May 09 j 02:06	17°♍51'21	0°34'41
min. Earth dist.	-7908 May 08 j 20:37	17°♍53'08	4.11090 AU
direct	-7908 Jul 07 j 14:27	12°♍58'30	
desc. node	-7908 Oct 22 j 21:31	27°♍58'06	
	-7908 Oct 31 j 17:56	0°♎	
evening set	-7908 Nov 07 j 23:28	1°♎41'09	
conjunction	-7908 Nov 20 j 23:32	4°♎44'50	-0°04'08
minimum elong	-7908 Nov 20 j 23:32	4°♎44'50	0°04'07
behind sun begin	-7908 Nov 20 j 15:30	4°♎40'07	
behind sun end	-7908 Nov 21 j 07:34	4°♎49'33	
max. Earth dist.	-7908 Nov 21 j 17:04	4°♎55'11	6.07949 AU
morning rise	-7908 Dec 04 j 02:47	7°♎50'20	
retrograde	-7907 Apr 14 j 12:11	27°♎43'33	
min. Earth dist.	-7907 Jun 13 j 09:33	22°♎46'55	4.05877 AU
opposition	-7907 Jun 14 j 03:37	22°♎40'55	-0°48'38
direct	-7907 Aug 11 j 16:21	17°♎47'13	
	-7907 Nov 13 j 16:30	0°♏	
evening set	-7907 Dec 13 j 10:22	6°♏45'49	
conjunction	-7907 Dec 26 j 18:33	9°♏54'17	-0°56'54

Attention, astronomical year style is used: The year -7907 in astronomical counting style is the year 7908 BCE in historical counting style.

minimum elong	-7907 Dec 26 j 18:28	9°♏54'14	0°57'11	
max. Earth dist.	-7907 Dec 28 j 04:50	10°♏14'29	6.05006 AU	
morning rise	-7906 Jan 09 j 06:09	13°♏04'31		
	-7906 Jan 17 j 12:51	15°♏		
	-7906 Apr 05 j 14:10	0°♐		
retrograde	-7906 May 20 j 21:54	3°♐07'36		
	-7906 Jul 05 j 02:56	30°℞♏		
opposition	-7906 Jul 19 j 22:15	28°♏02'39	-1°55'02	
min. Earth dist.	-7906 Jul 18 j 21:05	28°♏11'11	4.05639 AU	
direct	-7906 Sep 16 j 00:14	23°♏06'21		
	-7906 Nov 22 j 18:53	0°♐		
evening set	-7905 Jan 19 j 03:09	12°♐13'15		
conjunction	-7905 Feb 01 j 17:12	15°♐23'02	-1°28'59	
minimum elong	-7905 Feb 01 j 17:09	15°♐23'01	1°29'29	
max. Earth dist.	-7905 Feb 03 j 07:20	15°♐45'16	6.07333 AU	
morning rise	-7905 Feb 15 j 09:39	18°♐33'56		
	-7905 Apr 09 j 16:45	0°♑		
retrograde	-7905 Jun 25 j 07:35	8°♑14'19		
opposition	-7905 Aug 23 j 18:34	3°♑09'31	-2°18'35	
min. Earth dist.	-7905 Aug 22 j 20:34	3°♑17'03	4.10384 AU	
	-7905 Sep 17 j 21:31	30°℞♐		
direct	-7905 Oct 21 j 07:04	28°♐09'44		
	-7905 Nov 23 j 22:36	0°♑		
evening set	-7904 Feb 24 j 22:49	17°♑11'57		
conjunction	-7904 Mar 09 j 16:12	20°♑20'09	-1°28'31	
minimum elong	-7904 Mar 09 j 16:15	20°♑20'11	1°29'02	
max. Earth dist.	-7904 Mar 10 j 21:50	20°♑37'07	6.14033 AU	
morning rise	-7904 Mar 23 j 09:49	23°♑28'22		
	-7904 Apr 22 j 01:04	0°♒		
retrograde	-7904 Jul 28 j 05:33	12°♒22'28		
opposition	-7904 Sep 25 j 09:27	7°♒20'14	-1°53'02	
min. Earth dist.	-7904 Sep 24 j 20:57	7°♒24'29	4.18343 AU	
direct	-7904 Nov 23 j 21:38	2°♒17'34		
	-7903 Mar 03 j 21:41	15°♒		
evening set	-7903 Mar 31 j 19:56	21°♒04'06		
conjunction	-7903 Apr 14 j 12:38	24°♒08'30	-0°57'42	
minimum elong	-7903 Apr 14 j 12:43	24°♒08'33	0°58'03	
max. Earth dist.	-7903 Apr 14 j 20:50	24°♒13'07	6.22661 AU	
morning rise	-7903 Apr 28 j 03:52	27°♒11'59		
	-7903 May 10 j 20:03	0°♓		
retrograde	-7903 Aug 29 j 16:29	15°♓15'40		
opposition	-7903 Oct 27 j 22:23	10°♓17'10	-0°51'38	
min. Earth dist.	-7903 Oct 27 j 23:41	10°♓16'44	4.26764 AU	
direct	-7903 Dec 27 j 17:12	5°♓13'01		
evening set	-7902 May 05 j 05:02	23°♓40'32		
conjunction	-7902 May 18 j 16:32	26°♓39'42	-0°09'14	
minimum elong	-7902 May 18 j 16:33	26°♓39'43	0°09'20	
behind sun begin	-7902 May 18 j 09:42	26°♓35'56		
behind sun end	-7902 May 18 j 23:24	26°♓43'30		
max. Earth dist.	-7902 May 18 j 04:51	26°♓33'13	6.30325 AU	
morning rise	-7902 Jun 01 j 00:44	29°♓37'13		
	-7902 Jun 02 j 18:06	0°♈		
asc. node	-7902 Jul 28 j 15:56	11°♈11'04		
retrograde	-7902 Sep 30 j 05:37	17°♈03'53		
opposition	-7902 Nov 28 j 20:52	12°♈09'05	0°23'30	
min. Earth dist.	-7902 Nov 29 j 10:28	12°♈04'37	4.33048 AU	
direct	-7901 Jan 29 j 16:53	7°♈05'20		
evening set	-7901 Jun 07 j 02:32	25°♈17'34		
max. Earth dist.	-7901 Jun 18 j 23:36	27°♈55'00	6.34730 AU	
conjunction	-7901 Jun 20 j 04:43	28°♈11'08	0°41'05	
minimum elong	-7901 Jun 20 j 04:40	28°♈11'06	0°41'16	
	-7901 Jun 28 j 09:24	0°♉		
morning rise	-7901 Jul 03 j 03:35	1°♉02'59		
	-7901 Sep 15 j 04:11	15°♉		
retrograde	-7901 Oct 31 j 15:29	18°♉15'12		
	-7901 Dec 17 j 23:27	15°℞♉		
opposition	-7901 Dec 30 j 19:22	13°♉22'53	1°30'26	
min. Earth dist.	-7901 Dec 31 j 18:40	13°♉15'23	4.35375 AU	
direct	-7900 Mar 02 j 06:57	8°♉20'55		
	-7900 May 12 j 01:33	15°♉		
evening set	-7900 Jul 07 j 21:29	26°♉25'40		
max. Earth dist.	-7900 Jul 19 j 03:19	28°♉55'37	6.34685 AU	
conjunction	-7900 Jul 20 j 14:21	29°♉15'09	1°19'00	
minimum elong	-7900 Jul 20 j 14:17	29°♉15'07	1°19'25	
	-7900 Jul 23 j 22:44	0°♊		
morning rise	-7900 Aug 02 j 04:13	2°♊03'17		
retrograde	-7900 Dec 01 j 12:35	19°♊24'54		
opposition	-7899 Jan 31 j 07:26	14°♊33'24	2°11'26	
min. Earth dist.	-7899 Feb 01 j 08:23	14°♊25'28	4.33095 AU	
direct	-7899 Apr 03 j 17:23	9°♊34'14		
evening set	-7899 Aug 08 j 03:55	27°♊39'49		
	-7899 Aug 18 j 12:34	0°♋		
max. Earth dist.	-7899 Aug 19 j 05:51	0°♋09'47	6.30237 AU	
conjunction	-7899 Aug 20 j 14:39	0°♋28'21	1°34'11	
minimum elong	-7899 Aug 20 j 14:39	0°♋28'20	1°34'42	
morning rise	-7899 Sep 02 j 00:08	3°♋16'20		
retrograde	-7898 Jan 03 j 15:59	21°♋08'11		